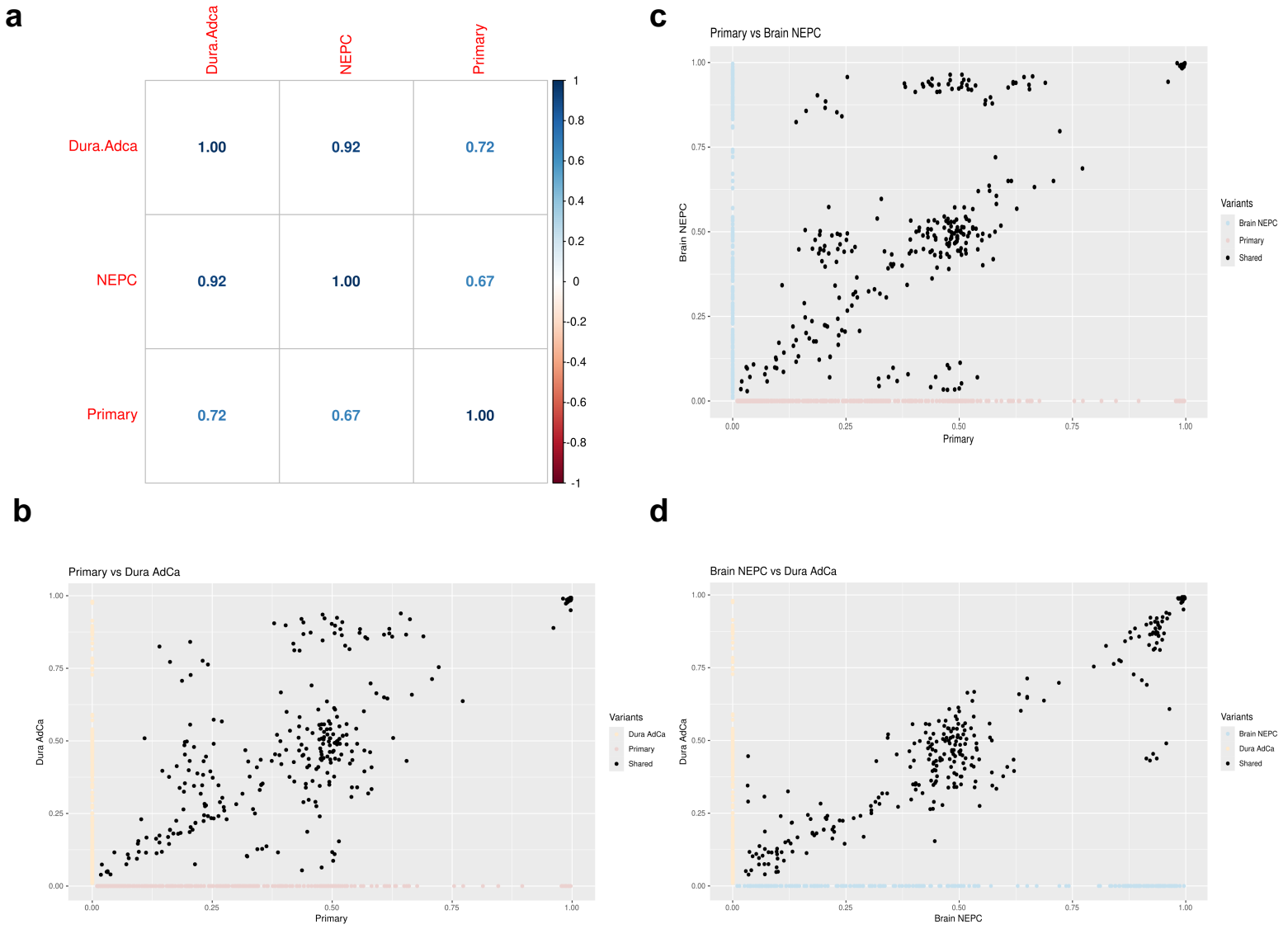
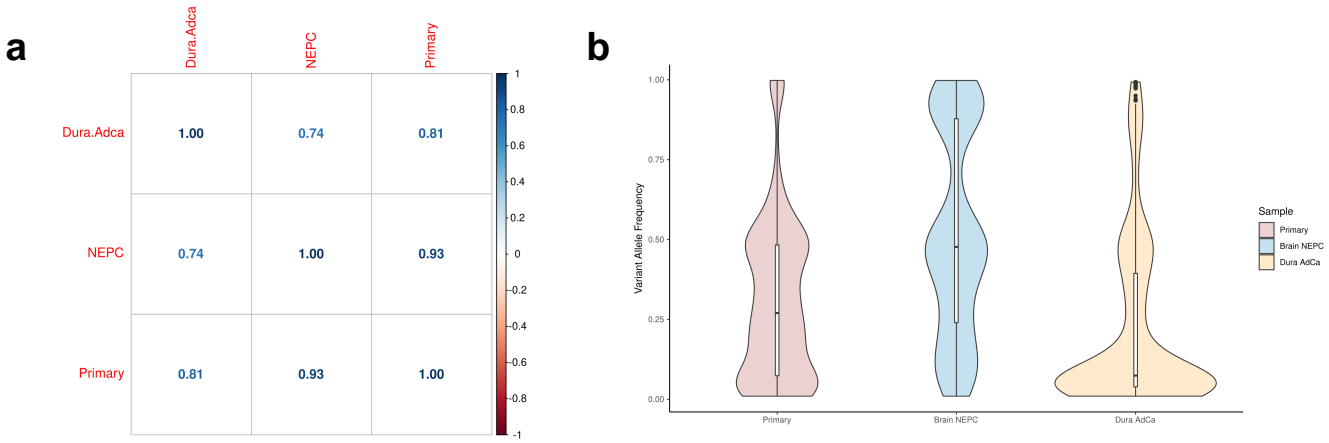
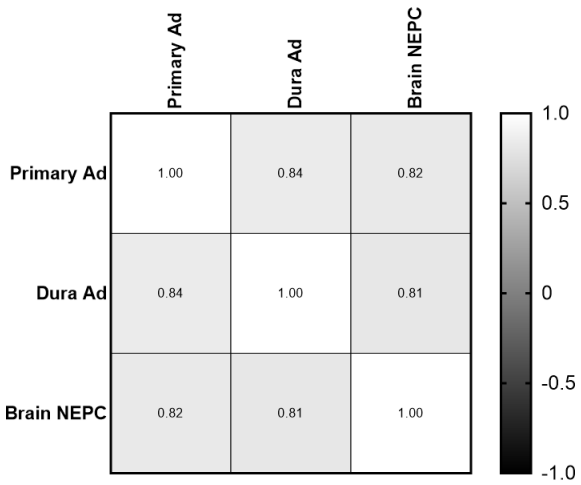


Supplementary Fig 1. a) Pearson correlation of variant allele frequencies for variants shared across all samples. P-values for all comparisons were < 0.0001. Variants plotted based on allele frequencies between **b)** primary prostate and dural adenocarcinoma, **c)** primary prostate and brain NEPC or **d)** brain NEPC and dural adenocarcinoma. Shared variants are noted in black, and those unique to a sample colored for primary prostate (red), dura adenocarcinoma (yellow) and brain NEPC (blue).

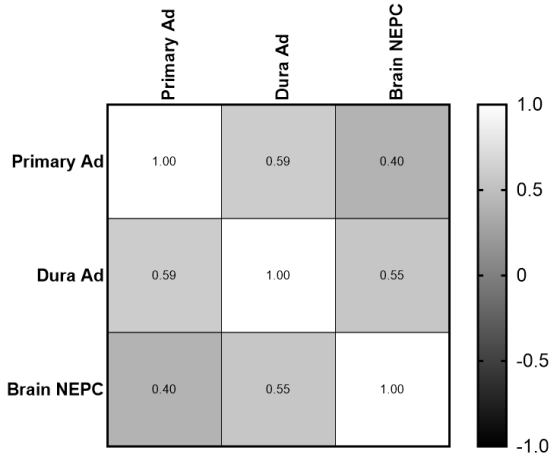


Supplementary Fig 2. a) Pearson correlation of depth of coverage for variants shared for all samples. P-values for all comparisons were < 0.0001. **b)** Violin plot of all variants that passed filters (read depth ≥ 50, allele frequence ≥ 0.01, and Mutect2 PASS) for each sample.

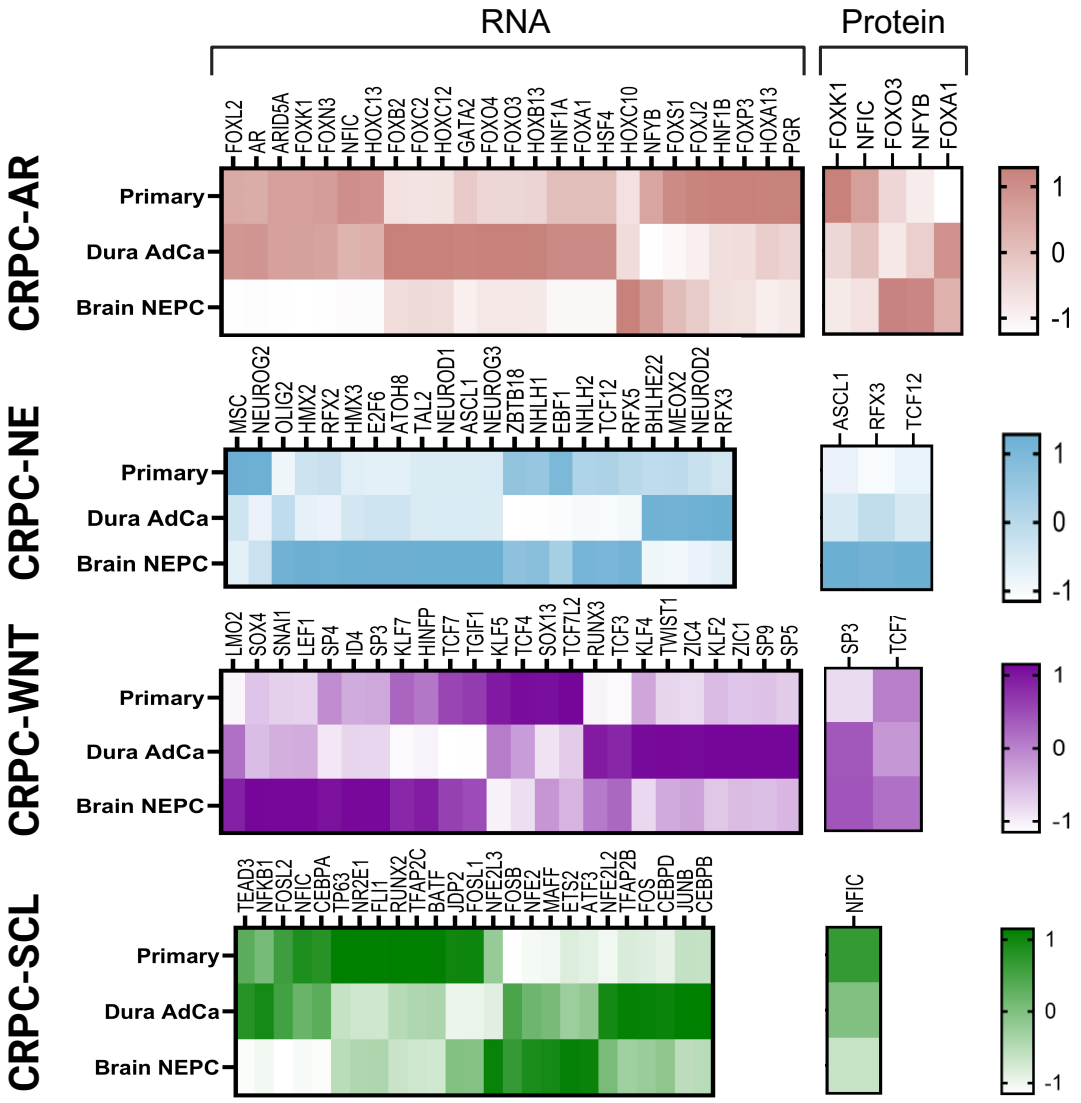
a Spearman correlation of transcriptome



b Spearman correlation of proteome



Supplementary Fig 3. Spearman correlation of transcriptome **(a)** or proteome **(b)** for genes shared across all samples. P-values for all comparisons for a and b are <0.0001.



Supplementary Fig 4. Heatmap of transcription factor expression regulating the four CRPC subtypes as indicated for the transcriptome (left) and proteome (right).

Supplementary Table 1. Genomic mutations with read depth ≥50, allele frequency ≥0.01, and passed Mutect2 filter.

Chromosome	Position	Alternate	Reference	Allele Frequency (AF)	Total depth of coverage (DP)	Filter	Gene_Symbol	Consequence	Sample
chr1	17594	T	C	0.217	224	PASS	WASH7P	intron_variant&non_coding_transcript_variant	Primary
chr1	183274	A	G	0.14	88	PASS	DDX11L17	intron_variant&non_coding_transcript_variant	Primary
chr1	184142	T	C	0.038	289	PASS	DDX11L17	non_coding_transcript_exon_variant	Primary
chr1	999495	T	C	0.582	166	PASS	HES4	intron_variant	Primary
chr1	1223422	G	A	0.655	200	PASS	SDF4	intron_variant	Primary
chr1	1293731	ACGCCCC	A	0.985	57	PASS	ACAP3	intron_variant	Primary
chr1	11648799	T	C	0.66	329	PASS	FBXO2	synonymous_variant	Primary
chr1	12883168	TG	CA	0.566	352	PASS	PRAMEF4	missense_variant	Primary
chr1	13224919	A	T	0.235	739	PASS	PRAMEF18	missense_variant	Primary
chr1	13225068	G	A	0.232	1699	PASS	PRAMEF18	missense_variant	Primary
chr1	13225208	G	C	0.241	3417	PASS	PRAMEF18	synonymous_variant	Primary
chr1	13318650	G	A	0.175	564	PASS	PRAMEF15	synonymous_variant	Primary
chr1	16646619	A	AGCCAT	0.145	1989	PASS	CROCCP2	intron_variant&non_coding_transcript_variant	Primary
chr1	16647559	G	A	0.016	1160	PASS	CROCCP2	intron_variant&non_coding_transcript_variant	Primary
chr1	16761036	A	G	0.169	1925	PASS	CROCC	intron_variant&non_coding_transcript_variant	Primary
chr1	21424888	A	C	0.074	188	PASS	NBPF2P	intron_variant&non_coding_transcript_variant	Primary
chr1	26166079	A	G	0.459	364	PASS	C1orf232	missense_variant	Primary
chr1	26780633	T	C	0.075	4053	PASS	ARID1A	synonymous_variant	Primary
chr1	33569487	G	A	0.201	744	PASS	CSMD2	missense_variant	Primary
chr1	34900204	A	G	0.021	340	PASS	DLGAP3	missense_variant	Primary
chr1	36308186	A	G	0.493	406	PASS	SH3D21	missense_variant	Primary
chr1	37690239	C	T	0.012	485	PASS	C1orf109	5_prime_utr_variant	Primary
chr1	37690242	C	T	0.012	493	PASS	C1orf109	5_prime_utr_variant	Primary
chr1	39413978	T	C	0.054	125	PASS	MACF1	intron_variant	Primary
chr1	39413989	G	A	0.043	131	PASS	MACF1	intron_variant	Primary
chr1	44139048	TCTGGTT	T	0.981	2255	PASS	KLF18	inframe_insertion	Primary
chr1	50419109	A	G	0.089	72	PASS	DMRTA2	synonymous_variant	Primary
chr1	55092049	C	A	0.451	184	PASS	USP24	synonymous_variant	Primary
chr1	65254515	T	G	0.393	203	PASS	DNAJC6	intron_variant&non_coding_transcript_variant	Primary
chr1	65610151	GAGAAG	G	0.033	203	PASS	LEPR	intron_variant	Primary
chr1	75339642	C	A	0.05	60	PASS	SLC44A5	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr1	99686767	T	C	0.077	53	PASS	PALMD	missense_variant	Primary
chr1	99712018	T	C	0.203	108	PASS	FRRS1	intron_variant	Primary
chr1	111231179	C	T	0.516	393	PASS	CHI3L2	intron_variant	Primary
chr1	120258388	C	T	0.058	309	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr1	120543014	C	T	0.404	225	PASS	.	splice_donor_region_variant&intron_variant&non_codin	Primary
chr1	120814068	T	C	0.103	235	PASS	NBPF26	intron_variant	Primary
chr1	120890143	G	A	0.032	1584	PASS	PPIAL4A	missense_variant	Primary
chr1	143796246	C	T	0.994	185	PASS	LINC02591	non_coding_transcript_exon_variant	Primary
chr1	145241802	C	T	0.567	661	PASS	PPIAL4D	missense_variant	Primary
chr1	145292353	C	T	0.134	285	PASS	NBPF20	intron_variant	Primary
chr1	145292462	A	T	0.087	179	PASS	NBPF20	missense_variant	Primary
chr1	145588056	G	C	0.018	762	PASS	NBPF25P	non_coding_transcript_exon_variant	Primary
chr1	146622487	C	G	0.426	82	PASS	.	non_coding_transcript_exon_variant	Primary
chr1	147631053	G	C	0.451	167	PASS	ACP6	stop_lost	Primary
chr1	147968240	A	G	0.381	57	PASS	GPR89B	intron_variant	Primary
chr1	148536251	C	G	0.084	58	PASS	NBPF14	missense_variant	Primary
chr1	149176847	C	T	0.483	134	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr1	149607944	C	G	0.203	201	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr1	149607947	C	G	0.201	201	PASS	LINC00869	intron_variant&non_coding_transcript_variant	Primary
chr1	151368992	T	C	0.197	540	PASS	SELENBP1	intron_variant	Primary
chr1	152213623	T	C	0.615	567	PASS	HRNR	missense_variant	Primary
chr1	152214116	G	T	0.052	182	PASS	HRNR	missense_variant	Primary
chr1	152214592	T	G	0.097	3472	PASS	HRNR	missense_variant	Primary
chr1	152216443	T	C	0.065	1276	PASS	HRNR	missense_variant	Primary
chr1	152351895	T	G	0.02	1838	PASS	FLG2	missense_variant	Primary
chr1	155178123	T	C	0.017	484	PASS	TRIM46	missense_variant	Primary
chr1	159066010	C	G	0.146	532	PASS	AIM2	missense_variant	Primary
chr1	160031429	C	A	0.476	402	PASS	PIGM	missense_variant	Primary
chr1	160195116	T	C	0.431	262	PASS	CASQ1	synonymous_variant	Primary
chr1	160752273	TG	CA	0.515	153	PASS	SLAMF7	intron_variant	Primary
chr1	161543282	G	A	0.044	182	PASS	FCGR3A	intron_variant	Primary
chr1	171185664	A	G	0.486	116	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr1	174220968	A	G	0.482	183	PASS	RABGAP1L	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr1	201209796	G	A	0.302	762	PASS	IGFN1	missense_variant	Primary
chr1	202919887	G	A	0.014	606	PASS	KLHL12	missense_variant	Primary
chr1	205984165	T	G	0.997	474	PASS	RAB7B	intron_variant	Primary
chr1	209630592	C	G	0.169	522	PASS	LAMB3	intron_variant	Primary
chr1	212386985	A	G	0.343	592	PASS	PACC1	synonymous_variant	Primary
chr1	212780065	C	G	0.111	70	PASS	NSL1	intron_variant	Primary
chr1	214607263	C	T	0.07	59	PASS	CENPF	intron_variant	Primary
chr1	220599753	G	A	0.319	90	PASS	MARK1	intron_variant	Primary
chr1	224191000	G	C	0.133	169	PASS	DEGS1	intron_variant	Primary
chr1	235504390	A	G	0.593	102	PASS	B3GALNT2	5_prime_utr_variant	Primary
chr1	242449317	G	A	0.298	445	PASS	PLD5	intron_variant	Primary
chr1	243165585	T	G	0.133	315	PASS	CEP170	stop_gained	Primary
chr1	243165909	T	G	0.056	203	PASS	CEP170	missense_variant	Primary
chr1	243172878	T	C	0.109	159	PASS	CEP170	intron_variant	Primary
chr1	248453100	A	G	0.162	2688	PASS	OR2T2	synonymous_variant	Primary
chr1	248453107	T	C	0.162	2713	PASS	OR2T2	missense_variant	Primary
chr1	248453582	A	T	0.012	1271	PASS	OR2T2	missense_variant	Primary
chr2	17714908	T	C	0.473	291	PASS	SMC6	synonymous_variant	Primary
chr2	24161505	T	G	0.346	278	PASS	FAM228B	splice_acceptor_variant	Primary
chr2	25130488	C	A	0.522	513	PASS	EFR3B	intron_variant	Primary

chr2	26284269	GTGGTA/	G	0.044	150	PASS	HADHB	intron_variant	Primary
chr2	27206532	T	C	0.496	438	PASS	SLC5A6	splice_region_variant&synonymous_variant	Primary
chr2	31178617	G	T	0.452	316	PASS	CAPN14	intron_variant	Primary
chr2	39707026	A	G	0.272	305	PASS	TMEM178A	intron_variant	Primary
chr2	43801586	A	G	0.251	85	PASS	DYNC2LI1	intron_variant	Primary
chr2	55208654	A	C	0.025	264	PASS	CLHC1	missense_variant	Primary
chr2	68655630	A	T	0.333	207	PASS	PROKR1	3_prime_utr_variant	Primary
chr2	69479044	A	C	0.338	230	PASS	AAK1	missense_variant	Primary
chr2	73214257	G	C	0.307	1027	PASS	SMYD5	5_prime_utr_variant	Primary
chr2	73214385	T	C	0.316	637	PASS	SMYD5	intron_variant	Primary
chr2	74088024	T	C	0.067	82	PASS	TET3	synonymous_variant	Primary
chr2	75646803	G	C	0.608	488	PASS	MRPL19	5_prime_utr_variant	Primary
chr2	80302939	A	T	0.074	1174	PASS	LRRTM1	missense_variant	Primary
chr2	87130049	G	T	0.328	366	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr2	89640376	T	C	0.248	152	PASS	KMT2CP4	intron_variant&non_coding_transcript_variant	Primary
chr2	96840093	A	G	0.016	809	PASS	ANKRD39	splice_region_variant&3_prime_utr_variant&nmd_trans	Primary
chr2	108765714	G	A	0.028	626	PASS	RANBP2	synonymous_variant	Primary
chr2	111123759	A	C	0.514	930	PASS	BCL2L11	missense_variant	Primary
chr2	111150001	A	G	0.483	2342	PASS	BCL2L11	intron_variant	Primary
chr2	111150163	G	T	0.501	2403	PASS	MIR4435-2HG	intron_variant&non_coding_transcript_variant	Primary
chr2	121387253	A	G	0.316	387	PASS	CLASP1	intron_variant	Primary
chr2	124790192	T	C	0.034	297	PASS	CNTNAP5	intron_variant	Primary
chr2	131626767	A	G	0.343	589	PASS	POTEKP	non_coding_transcript_exon_variant	Primary
chr2	134936927	G	T	0.323	554	PASS	CCNT2	synonymous_variant	Primary
chr2	135162954	A	G	0.307	453	PASS	ZRANB3	intron_variant&non_coding_transcript_variant	Primary
chr2	143587732	T	G	0.061	95	PASS	ARHGAP15	intron_variant	Primary
chr2	148483570	C	T	0.643	785	PASS	MBD5	synonymous_variant	Primary
chr2	163611058	T	C	0.478	661	PASS	FIGN	synonymous_variant	Primary
chr2	206444098	A	C	0.391	94	PASS	ADAM23	intron_variant	Primary
chr2	227523753	CTTTTAT	C	0.028	236	PASS	AGFG1	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr2	241230797	A	G	0.045	346	PASS	HDLBP	missense_variant	Primary
chr3	9918131	A	G	0.03	166	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr3	10213059	CA	TG	0.54	121	PASS	IRAK2	intron_variant	Primary
chr3	11017287	G	A	0.51	1201	PASS	SLC6A1	missense_variant	Primary
chr3	12004864	G	C	0.467	147	PASS	SYN2	missense_variant	Primary
chr3	13503039	A	G	0.263	288	PASS	HDAC11	intron_variant	Primary
chr3	14158878	C	G	0.496	881	PASS	XPC	synonymous_variant	Primary
chr3	14178475	T	C	0.504	1527	PASS	XPC	missense_variant	Primary
chr3	16885062	A	G	0.508	54	PASS	PLCL2	missense_variant	Primary
chr3	27344259	C	G	0.109	200	PASS	NEK10	intron_variant	Primary
chr3	38412994	G	C	0.218	437	PASS	XYLB	missense_variant	Primary
chr3	46673502	A	G	0.521	344	PASS	ALS2CL	intron_variant	Primary
chr3	47857472	C	G	0.162	469	PASS	MAP4	missense_variant	Primary
chr3	49005095	C	A	0.455	884	PASS	P4HTM	intron_variant	Primary
chr3	51385335	G	T	0.404	65	PASS	MANF	5_prime_utr_variant	Primary
chr3	52806206	A	C	0.146	216	PASS	ITIH3	intron_variant	Primary
chr3	54969807	T	C	0.186	525	PASS	CACNA2D3	missense_variant	Primary
chr3	57368206	C	T	0.527	168	PASS	DNAH12	synonymous_variant	Primary
chr3	57377088	G	A	0.505	140	PASS	DNAH12	synonymous_variant	Primary
chr3	57380252	A	G	0.506	157	PASS	DNAH12	intron_variant	Primary
chr3	57556401	G	C	0.039	668	PASS	PDE12	missense_variant	Primary
chr3	64147434	G	C	0.01	841	PASS	PRICKLE2	synonymous_variant	Primary
chr3	85961641	T	G	0.032	232	PASS	CADM2	missense_variant	Primary
chr3	88139852	G	A	0.467	183	PASS	ZNF654	missense_variant	Primary
chr3	101671336	T	C	0.212	271	PASS	ZBTB11	missense_variant	Primary
chr3	101699987	A	C	0.173	68	PASS	PDCL3P4	non_coding_transcript_exon_variant	Primary
chr3	124699935	A	G	0.494	534	PASS	KALRN	missense_variant	Primary
chr3	132691283	C	A	0.193	76	PASS	NPHP3	missense_variant	Primary
chr3	179973339	G	A	0.192	226	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr3	184038505	C	T	0.179	463	PASS	HTR3D	missense_variant	Primary
chr3	184038509	C	T	0.184	457	PASS	HTR3D	synonymous_variant	Primary
chr3	195618957	GA	AG	0.627	373	PASS	MUC20P1	non_coding_transcript_exon_variant	Primary
chr3	195740966	G	A	0.226	227	PASS	MUC20	downstream_gene_variant	Primary
chr3	195740982	T	C	0.243	174	PASS	MUC20	downstream_gene_variant	Primary
chr3	195780885	G	C	0.282	1364	PASS	MUC4	missense_variant	Primary
chr3	195780891	G	T	0.305	1473	PASS	MUC4	synonymous_variant	Primary
chr3	195781775	C	CGGTGA(	0.631	577	PASS	MUC4	inframe_deletion	Primary
chr3	195784172	C	T	0.203	3986	PASS	MUC4	missense_variant	Primary
chr3	195784271	C	T	0.326	2663	PASS	MUC4	missense_variant	Primary
chr3	195786231	G	A	0.565	3144	PASS	MUC4	synonymous_variant	Primary
chr3	195786336	G	A	0.33	2728	PASS	MUC4	synonymous_variant	Primary
chr4	867135	A	G	0.677	272	PASS	GAK	missense_variant	Primary
chr4	1395596	C	CGCCTG(	0.013	1062	PASS	UVSSA	3_prime_utr_variant	Primary
chr4	2251199	A	C	0.381	287	PASS	MXD4	synonymous_variant	Primary
chr4	9230471	A	C	0.032	3881	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr4	9230473	C	T	0.03	3806	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr4	9248548	A	G	0.065	1288	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr4	9268697	T	C	0.112	169	PASS	USP17L22	missense_variant	Primary
chr4	16186869	C	G	0.61	54	PASS	TAPT1	missense_variant	Primary
chr4	64299993	T	A	0.051	74	PASS	TECRL	missense_variant	Primary
chr4	70637844	T	G	0.541	254	PASS	ENAM	splice_donor_variant	Primary
chr4	74038340	A	T	0.246	843	PASS	CXCL3	missense_variant	Primary
chr4	76740701	T	A	0.476	754	PASS	SHROOM3	missense_variant	Primary
chr4	86771504	G	A	0.021	203	PASS	PTPN13	missense_variant	Primary
chr4	87810662	A	G	0.035	167	PASS	IBSP	synonymous_variant	Primary
chr4	108869028	A	G	0.069	72	PASS	COL25A1	intron_variant	Primary

chr4	122201050	A	G	0.194	192	PASS	BLTP1	synonymous_variant	Primary
chr4	150928642	A	T	0.219	51	PASS	LRBA	intron_variant	Primary
chr4	155710866	T	C	0.53	642	PASS	GUCY1A1	missense_variant	Primary
chr4	185471082	T	C	0.465	120	PASS	CCDC110	intron_variant	Primary
chr4	186706900	G	C	0.65	3074	PASS	FAT1	synonymous_variant	Primary
chr4	186709443	G	C	0.633	2757	PASS	FAT1	missense_variant	Primary
chr4	189982875	CT	TG	0.179	149	PASS	TUBB7P	non_coding_transcript_exon_variant	Primary
chr5	181614	TG	CC	0.405	530	PASS	PLEKHG4B	missense_variant	Primary
chr5	840458	T	C	0.376	1430	PASS	ZDHHC11	intron_variant	Primary
chr5	878575	T	C	0.253	370	PASS	BRD9	intron_variant	Primary
chr5	1432496	G	A	0.51	347	PASS	SLC6A3	synonymous_variant	Primary
chr5	10239213	T	C	0.014	1306	PASS	ATPSCKMT	missense_variant	Primary
chr5	23526890	G	C	0.047	851	PASS	PRDM9	missense_variant	Primary
chr5	32780689	G	C	0.481	478	PASS	NPR3	intron_variant	Primary
chr5	57214174	A	C	0.573	439	PASS	GPBP1	missense_variant	Primary
chr5	65452748	A	G	0.034	182	PASS	ADAMTS6	missense_variant	Primary
chr5	65552595	T	C	0.054	50	PASS	CENPK	intron_variant	Primary
chr5	71012424	T	C	0.496	820	PASS	NAIP	synonymous_variant	Primary
chr5	77077415	GC	AG	0.474	82	PASS	ZBED3	missense_variant	Primary
chr5	87268448	T	C	0.321	74	PASS	RASA1	5_prime_utr_variant	Primary
chr5	109820217	C	T	0.06	153	PASS	MAN2A1	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr5	111092331	T	C	0.387	540	PASS	.	upstream_gene_variant	Primary
chr5	112836522	A	G	0.264	782	PASS	APC	intron_variant	Primary
chr5	132696603	A	AATTTTT	0.221	119	PASS	KIF3A	3_prime_utr_variant	Primary
chr5	140648249	G	A	0.363	256	PASS	IK	intron_variant	Primary
chr5	141194636	G	C	0.773	245	PASS	PCDHB10	missense_variant	Primary
chr5	156660433	T	C	0.059	232	PASS	SGCD	intron_variant	Primary
chr5	159174135	A	G	0.385	132	PASS	RNF145	synonymous_variant	Primary
chr5	169591213	CAATGCT	C	0.063	83	PASS	SPDL1	stop_gained&frameshift_variant	Primary
chr5	169591216	ACCAATA	A	0.063	82	PASS	SPDL1	stop_gained&protein_altering_variant	Primary
chr5	172968611	T	G	0.328	582	PASS	RPL26L1	intron_variant	Primary
chr5	175442865	A	G	0.011	707	PASS	DRD1	missense_variant	Primary
chr5	175926725	C	T	0.06	693	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr5	176010999	C	T	0.252	495	PASS	THOC3	intron_variant	Primary
chr5	177672139	A	T	0.142	315	PASS	.	non_coding_transcript_exon_variant	Primary
chr5	178147850	A	G	0.582	1029	PASS	RMND5B	missense_variant	Primary
chr5	179076409	T	G	0.542	974	PASS	ZNF354C	intron_variant	Primary
chr5	179125085	G	T	0.013	2044	PASS	ADAMTS2	missense_variant	Primary
chr6	147522	A	G	0.263	261	PASS	SEPTIN14P6	upstream_gene_variant	Primary
chr6	311798	G	T	0.203	348	PASS	DUSP22	intron_variant	Primary
chr6	4125973	T	C	0.436	275	PASS	ECI2	intron_variant	Primary
chr6	4996429	A	C	0.506	105	PASS	RPP40	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr6	25777988	T	C	0.176	279	PASS	SLC17A4	missense_variant	Primary
chr6	30730973	CTGTATA	C	0.056	105	PASS	FLOT1	stop_gained&frameshift_variant	Primary
chr6	31027040	A	G	0.013	683	PASS	MUC22	missense_variant	Primary
chr6	31202450	GC	AG	0.482	560	PASS	HCG27	non_coding_transcript_exon_variant	Primary
chr6	31202488	G	A	0.054	766	PASS	HCG27	non_coding_transcript_exon_variant	Primary
chr6	31541266	T	G	0.501	160	PASS	DDX39B	intron_variant	Primary
chr6	31632919	A	G	0.529	271	PASS	PRRC2A	missense_variant	Primary
chr6	31688737	T	C	0.515	419	PASS	ABHD16A	synonymous_variant	Primary
chr6	32011008	T	C	0.074	530	PASS	TNXA	non_coding_transcript_exon_variant	Primary
chr6	32038540	T	C	0.503	200	PASS	CYP21A2	synonymous_variant	Primary
chr6	32038560	A	C	0.514	198	PASS	CYP21A2	synonymous_variant	Primary
chr6	32203761	A	G	0.512	244	PASS	NOTCH4	intron_variant	Primary
chr6	32223104	A	G	0.441	240	PASS	NOTCH4	intron_variant	Primary
chr6	34417760	A	G	0.237	460	PASS	RPS10	intron_variant	Primary
chr6	43299968	T	C	0.195	814	PASS	SLC22A7	synonymous_variant	Primary
chr6	47879234	A	T	0.496	1231	PASS	PTCHD4	missense_variant	Primary
chr6	54169507	T	A	0.059	50	PASS	MLIP	intron_variant	Primary
chr6	69697648	A	G	0.049	53	PASS	LMBRD1	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr6	97064696	C	T	0.298	311	PASS	KLHL32	synonymous_variant	Primary
chr6	106975088	A	G	0.412	111	PASS	CD24	upstream_gene_variant	Primary
chr6	109145410	C	G	0.032	82	PASS	CEP57L1	intron_variant	Primary
chr6	111373273	AGTTTTT	A	0.029	218	PASS	REV3L	stop_gained&frameshift_variant	Primary
chr6	116121523	T	C	0.317	446	PASS	COL10A1	missense_variant	Primary
chr6	117403216	T	C	0.337	1611	PASS	ROS1	missense_variant	Primary
chr6	117519881	T	C	0.569	288	PASS	DCBLD1	missense_variant	Primary
chr6	142133970	A	G	0.477	223	PASS	GJE1	missense_variant	Primary
chr6	169667944	A	G	0.496	739	PASS	WDR27	intron_variant	Primary
chr7	2572660	AA	TC	0.432	60	PASS	IQCE	intron_variant	Primary
chr7	6144151	G	T	0.026	296	PASS	USP42	synonymous_variant	Primary
chr7	6918556	G	A	0.028	281	PASS	.	intergenic_variant	Primary
chr7	6918581	A	G	0.033	269	PASS	.	intergenic_variant	Primary
chr7	10983192	AT	TG	0.023	179	PASS	PHF14	intron_variant	Primary
chr7	10983202	GGTCTGA	G	0.025	160	PASS	PHF14	intron_variant	Primary
chr7	11376710	C	G	0.058	69	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr7	22798375	C	G	0.284	282	PASS	.	intergenic_variant	Primary
chr7	34969503	C	A	0.047	131	PASS	DPY19L1	missense_variant	Primary
chr7	34969508	A	G	0.056	132	PASS	DPY19L1	synonymous_variant	Primary
chr7	37225044	C	T	0.432	738	PASS	ELMO1	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr7	38217025	T	TTGACA	0.022	733	PASS	STARD3NL	inframe_deletion&splice_region_variant	Primary
chr7	44007335	A	G	0.04	1238	PASS	.	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr7	48389244	C	A	0.358	291	PASS	ABCA13	intron_variant	Primary
chr7	56116313	T	A	0.521	77	PASS	NUPR2	start_lost	Primary
chr7	57132116	T	C	0.23	345	PASS	ZNF479	intron_variant	Primary
chr7	66877042	C	T	0.214	78	PASS	GTF2IP23	upstream_gene_variant	Primary

chr7	67284024	A	G	0.25	129	PASS	SPDYE21	intron_variant	Primary
chr7	73328589	A	G	0.488	184	PASS	FKBP6	synonymous_variant	Primary
chr7	74822869	T	G	0.017	549	PASS	GTF2IRD2	intron_variant	Primary
chr7	75112541	C	T	0.159	71	PASS	GTF2IRD2B	splice_donor_region_variant&intron_variant	Primary
chr7	77953963	G	C	0.517	225	PASS	PHTF2	intron_variant	Primary
chr7	97986932	T	C	0.397	447	PASS	OCM2	intron_variant	Primary
chr7	98193049	A	G	0.53	511	PASS	LMTK2	missense_variant	Primary
chr7	99531295	G	A	0.531	371	PASS	ZKSCAN5	synonymous_variant	Primary
chr7	99760901	G	A	0.476	192	PASS	CYP3A4	missense_variant	Primary
chr7	100682882	T	C	0.48	203	PASS	GIGYF1	intron_variant	Primary
chr7	100867817	C	T	0.497	110	PASS	TRIP6	intron_variant	Primary
chr7	100952493	G	A	0.349	855	PASS	MUC3A	synonymous_variant	Primary
chr7	100952498	T	C	0.352	845	PASS	MUC3A	missense_variant	Primary
chr7	100993860	A	G	0.167	56	PASS	MUC12	synonymous_variant	Primary
chr7	100996246	T	G	0.118	340	PASS	MUC12	missense_variant	Primary
chr7	100997978	T	G	0.105	1170	PASS	MUC12	missense_variant	Primary
chr7	101000917	T	G	0.132	276	PASS	MUC12	missense_variant	Primary
chr7	111521382	T	C	0.306	245	PASS	IMMP2L	synonymous_variant	Primary
chr7	111846967	A	G	0.48	163	PASS	DOCK4	intron_variant	Primary
chr7	128880045	A	C	0.502	397	PASS	KCP	missense_variant	Primary
chr7	130129605	C	T	0.5	392	PASS	KLHDC10	intron_variant	Primary
chr7	130549432	G	C	0.479	190	PASS	COPG2	intron_variant	Primary
chr7	130550642	T	C	0.505	311	PASS	COPG2	synonymous_variant	Primary
chr7	132508576	G	A	0.66	399	PASS	PLXNA4	missense_variant	Primary
chr7	142059474	C	T	0.391	1083	PASS	MGAM	splice_region_variant&synonymous_variant	Primary
chr7	142059540	C	T	0.402	1549	PASS	MGAM	synonymous_variant	Primary
chr7	142078849	T	C	0.284	1247	PASS	MGAM	synonymous_variant	Primary
chr7	142085767	G	C	0.042	1534	PASS	MGAM	intron_variant	Primary
chr7	142328735	G	A	0.014	994	PASS	TRBV6-1	missense_variant	Primary
chr7	142389438	C	T	0.093	1505	PASS	TRBV5-3	missense_variant	Primary
chr7	142463547	G	C	0.191	687	PASS	TRBV5-4	missense_variant	Primary
chr7	142564042	T	C	0.499	1429	PASS	TRBV12-4	synonymous_variant	Primary
chr7	142588240	A	G	0.44	452	PASS	TRBV14	synonymous_variant	Primary
chr7	142598094	T	C	0.44	522	PASS	TRBV16	intron_variant	Primary
chr7	142774511	T	C	0.352	1519	PASS	PRSS2	3_prime_utr_variant	Primary
chr7	142774515	CA	TG	0.355	1502	PASS	PRSS2	3_prime_utr_variant	Primary
chr7	142791707	C	G	0.046	859	PASS	TRBC1	missense_variant	Primary
chr7	142791866	A	G	0.102	1011	PASS	TRBC1	synonymous_variant	Primary
chr7	142801387	C	T	0.278	823	PASS	TRBC2	synonymous_variant	Primary
chr7	149005223	A	G	0.478	259	PASS	PDIA4	synonymous_variant	Primary
chr7	152252528	A	G	0.484	1812	PASS	KMT2C	intron_variant	Primary
chr8	166783	G	A	0.207	214	PASS	OR4F21	missense_variant	Primary
chr8	1680556	AT	GA	0.354	226	PASS	DLGAP2	intron_variant	Primary
chr8	8020009	C	G	0.062	180	PASS	FAM90A24P	missense_variant	Primary
chr8	8020012	G	C	0.122	194	PASS	FAM90A24P	missense_variant	Primary
chr8	12121949	G	A	0.098	74	PASS	FAM66D	intron_variant&non_coding_transcript_variant	Primary
chr8	12435885	T	C	0.076	282	PASS	FAM86B2	intron_variant	Primary
chr8	18872551	G	C	0.343	640	PASS	PSD3	missense_variant	Primary
chr8	22227651	T	C	0.536	132	PASS	PHYHIP	intron_variant	Primary
chr8	28041178	A	G	0.018	424	PASS	NUGGC	missense_variant	Primary
chr8	37848719	G	C	0.205	253	PASS	BRF2	intron_variant	Primary
chr8	42756343	G	A	0.56	751	PASS	CHRNA6	synonymous_variant	Primary
chr8	51408154	A	C	0.327	436	PASS	PXDNL	missense_variant	Primary
chr8	124998624	A	G	0.582	401	PASS	SQLE	5_prime_utr_variant	Primary
chr8	131946634	C	G	0.393	162	PASS	EFR3A	splice_donor_variant	Primary
chr8	143606582	G	C	0.619	264	PASS	PYCR3	missense_variant	Primary
chr8	143858206	A	G	0.335	735	PASS	EPPK1	synonymous_variant	Primary
chr8	143865286	T	C	0.333	73	PASS	EPPK1	synonymous_variant	Primary
chr8	143865354	G	GGGC	0.981	73	PASS	EPPK1	inframe_deletion	Primary
chr8	144264608	A	G	0.575	893	PASS	BOP1	synonymous_variant	Primary
chr8	144318024	T	TG	0.014	931	PASS	DGAT1	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr8	144931491	A	G	0.609	726	PASS	ZNF16	synonymous_variant	Primary
chr9	12700	A	G	0.199	99	PASS	DDX11L5	intron_variant&non_coding_transcript_variant	Primary
chr9	7011765	T	C	0.445	563	PASS	KDM4C	synonymous_variant	Primary
chr9	28149027	A	G	0.025	383	PASS	LINGO2	intron_variant	Primary
chr9	29999644	T	C	0.079	59	PASS	.	intergenic_variant	Primary
chr9	32408621	G	A	0.038	196	PASS	ACO1	missense_variant	Primary
chr9	35547564	A	G	0.05	870	PASS	RUSC2	missense_variant	Primary
chr9	37436646	T	C	0.028	305	PASS	GRHPR	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr9	41926666	A	G	0.267	281	PASS	CNTNAP3B	intron_variant	Primary
chr9	78031131	A	G	0.021	863	PASS	GNAQ	synonymous_variant	Primary
chr9	78317564	A	C	0.552	122	PASS	PSAT1	intron_variant	Primary
chr9	78317567	T	A	0.541	126	PASS	PSAT1	intron_variant	Primary
chr9	81992641	C	T	0.519	660	PASS	SPATA31D1	missense_variant	Primary
chr9	82058619	CA	GC	0.19	978	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr9	104617172	G	A	0.253	201	PASS	OR13C9	downstream_gene_variant	Primary
chr9	109167140	GC	CG	0.98	60	PASS	FRRS1L	5_prime_utr_variant	Primary
chr9	130319410	G	A	0.992	173	PASS	HMCN2	intron_variant	Primary
chr9	130319644	A	G	0.503	334	PASS	HMCN2	missense_variant	Primary
chr9	130321760	G	A	0.494	218	PASS	HMCN2	intron_variant	Primary
chr9	130327557	C	T	0.489	226	PASS	HMCN2	intron_variant	Primary
chr9	130338375	G	A	0.473	325	PASS	HMCN2	intron_variant	Primary
chr9	130338512	G	A	0.432	228	PASS	HMCN2	intron_variant	Primary
chr9	136290477	G	A	0.991	148	PASS	CCDC187	intron_variant	Primary
chr9	136291438	T	C	0.405	362	PASS	CCDC187	missense_variant	Primary
chr9	136459582	T	C	0.592	203	PASS	SEC16A	intron_variant	Primary

chr9	136463802	A	G	0.034	236	PASS	SEC16A	intron_variant	Primary
chr9	136740862	C	T	0.483	478	PASS	LCN10	missense_variant	Primary
chr9	137064633	T	C	0.411	438	PASS	SAPCD2	3_prime_utr_variant	Primary
chr9	137213879	A	G	0.459	539	PASS	NDOR1	splice_donor_variant	Primary
chr9	137877982	A	G	0.319	197	PASS	CACNA1B	missense_variant	Primary
chr9	137877990	A	G	0.313	222	PASS	CACNA1B	synonymous_variant	Primary
chr10	8009327	T	C	0.167	350	PASS	TAF3	synonymous_variant	Primary
chr10	12117710	A	C	0.44	255	PASS	DHTKD1	missense_variant	Primary
chr10	19327707	A	T	0.431	68	PASS	MALRD1	intron_variant	Primary
chr10	25598926	G	A	0.232	617	PASS	GPR158	synonymous_variant	Primary
chr10	27983919	A	C	0.03	354	PASS	ODAD2	missense_variant	Primary
chr10	31908696	G	T	0.478	827	PASS	ARHGAP12	missense_variant	Primary
chr10	43077384	A	G	0.307	598	PASS	RET	intron_variant	Primary
chr10	47367976	T	C	0.625	776	PASS	ZNF488	missense_variant	Primary
chr10	47762988	A	G	0.395	66	PASS	SYT15B	5_prime_utr_variant	Primary
chr10	49155796	T	C	0.292	201	PASS	TMEM273	3_prime_utr_variant	Primary
chr10	52768241	C	T	0.344	921	PASS	MBL2	missense_variant	Primary
chr10	89402218	G	A	0.323	130	PASS	LIPA	intron_variant	Primary
chr10	93325895	G	A	0.619	673	PASS	MYOF	synonymous_variant	Primary
chr10	102644855	A	G	0.305	674	PASS	TRIM8	missense_variant	Primary
chr10	110498227	A	G	0.448	374	PASS	DUSP5	missense_variant	Primary
chr10	125827540	T	A	0.248	215	PASS	BCCIP	intron_variant	Primary
chr10	125852632	A	G	0.489	491	PASS	DHX32	missense_variant	Primary
chr10	133626722	C	G	0.336	543	PASS	FRG2B	missense_variant	Primary
chr11	618647	G	GCTCTGC	0.025	717	PASS	CDHR5	inframe_deletion	Primary
chr11	788236	T	C	0.024	356	PASS	CEND1	missense_variant	Primary
chr11	1018116	G	T	0.062	546	PASS	MUC6	missense_variant	Primary
chr11	1181260	T	C	0.996	349	PASS	MUC5AC	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr11	1182098	CG	C	0.992	145	PASS	MUC5AC	intron_variant	Primary
chr11	17736452	C	G	0.017	515	PASS	KCNC1	missense_variant	Primary
chr11	18709691	G	A	0.69	231	PASS	IGSF22	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr11	22624986	T	C	0.482	1472	PASS	FANCF	synonymous_variant	Primary
chr11	46375034	G	A	0.469	612	PASS	DGKZ	missense_variant	Primary
chr11	46672223	G	A	0.464	290	PASS	ATG13	intron_variant	Primary
chr11	47242986	T	C	0.513	909	PASS	ACP2	intron_variant	Primary
chr11	47441634	T	C	0.495	521	PASS	RAPSN	missense_variant	Primary
chr11	55368686	A	G	0.021	403	PASS	OR4A15	missense_variant	Primary
chr11	60040402	A	G	0.033	287	PASS	OOSP2	upstream_gene_variant	Primary
chr11	61102576	T	C	0.495	172	PASS	CD5	synonymous_variant	Primary
chr11	62528827	A	G	0.014	2092	PASS	AHNAK	synonymous_variant	Primary
chr11	64287893	T	C	0.552	385	PASS	GPR137	missense_variant	Primary
chr11	67452275	A	C	0.477	294	PASS	GPR152	missense_variant	Primary
chr11	75267758	A	G	0.051	56	PASS	ARRB1	intron_variant	Primary
chr11	89870756	C	T	0.233	647	PASS	TRIM64B	synonymous_variant	Primary
chr11	94512682	G	A	0.404	115	PASS	C11orf97	intron_variant	Primary
chr11	105043516	T	G	0.165	234	PASS	CARD16	3_prime_utr_variant	Primary
chr11	113931878	TG	CA	0.654	205	PASS	HTR3B	intron_variant	Primary
chr11	120905676	AGATGA	A	0.065	96	PASS	GRIK4	intron_variant	Primary
chr12	1593898	T	C	0.013	518	PASS	FBXL14	missense_variant	Primary
chr12	5969435	C	G	0.241	176	PASS	VWF	intron_variant	Primary
chr12	10882675	T	G	0.274	394	PASS	PRH1	missense_variant	Primary
chr12	10930916	T	C	0.2	513	PASS	PRH2	missense_variant	Primary
chr12	27387171	T	C	0.056	94	PASS	BMAL2	intron_variant	Primary
chr12	40515401	AA	GG	0.437	311	PASS	MUC19	intron_variant	Primary
chr12	40560981	A	C	0.157	78	PASS	MUC19	intron_variant	Primary
chr12	49003516	G	C	0.814	57	PASS	PRKAG1	intron_variant	Primary
chr12	49051625	A	AGCCTC/	0.011	3115	PASS	KMT2D	inframe_deletion	Primary
chr12	52519021	T	C	0.018	1050	PASS	KRT5	missense_variant	Primary
chr12	52950384	C	T	0.03	364	PASS	KRT18	synonymous_variant	Primary
chr12	52950399	T	C	0.029	373	PASS	KRT18	synonymous_variant	Primary
chr12	54182416	G	A	0.204	563	PASS	SMUG1	missense_variant	Primary
chr12	54508543	T	C	0.51	248	PASS	NCKAP1L	intron_variant	Primary
chr12	56718542	G	GGGGGA	0.031	445	PASS	NACA	inframe_deletion	Primary
chr12	62104733	AA	CC	0.14	452	PASS	TAFA2	intron_variant	Primary
chr12	64222275	T	C	0.503	365	PASS	KICS2	5_prime_utr_variant	Primary
chr12	68295209	G	A	0.043	64	PASS	MDM1	3_prime_utr_variant	Primary
chr12	72272838	C	A	0.658	634	PASS	TRHDE	synonymous_variant	Primary
chr12	101338126	G	C	0.471	283	PASS	UTP20	synonymous_variant	Primary
chr12	101651384	AGAAGG	A	0.233	199	PASS	MYBPC1	stop_gained&frameshift_variant	Primary
chr12	101717207	G	T	0.074	128	PASS	CHPT1	intron_variant	Primary
chr12	103984764	T	C	0.014	413	PASS	TDG	missense_variant	Primary
chr12	108940930	C	T	0.27	227	PASS	SVOP	intron_variant	Primary
chr12	111520955	G	T	0.204	430	PASS	ATXN2	missense_variant	Primary
chr12	122702193	T	TAAGGA	0.039	946	PASS	HCAR2	frameshift_variant&stop_lost	Primary
chr12	124314124	C	T	0.237	232	PASS	RFLNA	intron_variant	Primary
chr12	124912584	T	C	0.023	1902	PASS	UBC	synonymous_variant	Primary
chr12	124912812	C	T	0.019	2172	PASS	UBC	synonymous_variant	Primary
chr12	124913538	C	T	0.011	2116	PASS	UBC	synonymous_variant	Primary
chr12	124913577	A	G	0.028	2099	PASS	UBC	synonymous_variant	Primary
chr12	131982290	AT	CC	0.44	456	PASS	EP400	missense_variant	Primary
chr12	133010734	A	G	0.445	406	PASS	ZNF26	synonymous_variant	Primary
chr12	133100956	C	T	0.58	215	PASS	ZNF140	intron_variant	Primary
chr13	23869336	A	G	0.031	194	PASS	MIPEP	missense_variant	Primary
chr13	23891902	C	A	0.125	1347	PASS	C1QTNF9B	missense_variant	Primary
chr13	23896721	G	T	0.047	417	PASS	PCOTH	intron_variant&non_coding_transcript_variant	Primary
chr13	111265556	C	G	0.547	449	PASS	ARHGEF7	intron_variant	Primary

chr13	114323914	C	A	0.342	416	PASS	CHAMP1	synonymous_variant	Primary
chr14	19097884	T	G	0.158	169	PASS	DUXAP9	intron_variant&non_coding_transcript_variant	Primary
chr14	19097966	A	C	0.123	73	PASS	DUXAP9	intron_variant&non_coding_transcript_variant	Primary
chr14	23417278	T	G	0.478	572	PASS	MYH7	stop_gained	Primary
chr14	23424064	G	A	0.509	779	PASS	MYH7	missense_variant	Primary
chr14	23967451	C	A	0.058	497	PASS	DHRS4	intron_variant	Primary
chr14	32546179	A	G	0.227	401	PASS	AKAP6	missense_variant	Primary
chr14	45032186	C	G	0.49	161	PASS	TOGARAM1	intron_variant	Primary
chr14	45137184	G	A	0.484	1912	PASS	FANCM	missense_variant	Primary
chr14	45164495	A	G	0.493	2541	PASS	FANCM	missense_variant	Primary
chr14	47061434	T	C	0.02	292	PASS	MDGA2	missense_variant	Primary
chr14	50613419	T	G	0.53	91	PASS	ATL1	intron_variant	Primary
chr14	77827834	CT	C	0.846	158	PASS	ADCK1	intron_variant	Primary
chr14	90304150	A	G	0.412	748	PASS	NRDE2	missense_variant	Primary
chr14	91729459	T	A	0.243	56	PASS	CATSPERB	stop_gained	Primary
chr14	100567885	T	C	0.579	236	PASS	BEGAIN	intron_variant	Primary
chr14	104741279	T	C	0.392	256	PASS	ADSS1	intron_variant	Primary
chr14	104932945	C	A	0.394	463	PASS	PLD4	missense_variant	Primary
chr14	105241244	C	G	0.457	95	PASS	BRF1	intron_variant	Primary
chr14	105622991	GGGGGA	G	0.097	175	PASS	IGHG4	intron_variant	Primary
chr14	105625935	C	G	0.234	714	PASS	IGHG4	synonymous_variant	Primary
chr14	105707471	A	G	0.339	1593	PASS	IGHA1	synonymous_variant	Primary
chr14	105767772	G	A	0.093	217	PASS	IGHG3	intron_variant	Primary
chr14	105863968	G	A	0.593	161	PASS	IGHJ2	downstream_gene_variant	Primary
chr14	106012330	C	G	0.497	961	PASS	IGHV4-4	synonymous_variant	Primary
chr14	106062072	G	T	0.215	1041	PASS	IGHV3-7	downstream_gene_variant	Primary
chr14	106062074	G	T	0.215	1041	PASS	IGHV3-7	downstream_gene_variant	Primary
chr14	106062169	A	G	0.504	2167	PASS	IGHV3-7	synonymous_variant	Primary
chr14	106211435	C	G	0.011	889	PASS	IGHV3-20	5_prime_utr_variant	Primary
chr14	106335083	C	T	0.325	6301	PASS	IGHV3-30	missense_variant	Primary
chr14	106349771	A	T	0.537	2157	PASS	IGHV4-31	5_prime_utr_variant	Primary
chr14	106675148	C	A	0.145	1691	PASS	IGHV3-66	missense_variant	Primary
chr14	106750387	C	T	0.986	71	PASS	.	non_coding_transcript_exon_variant	Primary
chr15	21609551	T	G	0.417	102	PASS	OR1Q1BP	non_coding_transcript_exon_variant	Primary
chr15	21652711	G	A	0.986	71	PASS	OR4N4C	missense_variant	Primary
chr15	22431965	T	G	0.173	339	PASS	.	non_coding_transcript_exon_variant	Primary
chr15	28385304	C	G	0.093	81	PASS	GOLGA8F	missense_variant	Primary
chr15	28705459	G	A	0.038	114	PASS	GOLGA8M	intron_variant	Primary
chr15	28705483	T	C	0.037	168	PASS	GOLGA8M	splice_region_variant&synonymous_variant	Primary
chr15	30614305	T	A	0.128	114	PASS	GOLGA8H	splice_donor_region_variant&intron_variant	Primary
chr15	30800018	T	G	0.044	271	PASS	GOLGA8UP	splice_polypyrimidine_tract_variant&intron_variant&no	Primary
chr15	30800585	A	G	0.053	326	PASS	GOLGA8UP	non_coding_transcript_exon_variant	Primary
chr15	31483284	T	G	0.057	67	PASS	OTUD7A	3_prime_utr_variant	Primary
chr15	34154595	T	C	0.619	187	PASS	KATNBL1	intron_variant	Primary
chr15	34237538	ATCTTCT	A	0.027	265	PASS	SLC12A6	stop_gained&inframe_insertion	Primary
chr15	34254487	T	C	0.322	342	PASS	SLC12A6	missense_variant	Primary
chr15	35542455	C	G	0.038	192	PASS	DPH6	missense_variant	Primary
chr15	44828439	G	A	0.184	1691	PASS	SORD2P	intron_variant&non_coding_transcript_variant	Primary
chr15	44828663	C	T	0.198	799	PASS	SORD2P	intron_variant&non_coding_transcript_variant	Primary
chr15	50107012	T	A	0.057	56	PASS	ATP8B4	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr15	54013596	A	T	0.614	413	PASS	UNC13C	missense_variant	Primary
chr15	61884130	T	C	0.379	100	PASS	VPS13C	missense_variant&splice_region_variant	Primary
chr15	64957167	C	T	0.987	84	PASS	ANKDD1A	synonymous_variant	Primary
chr15	67255028	C	G	0.517	318	PASS	IQCH	intron_variant	Primary
chr15	69014683	CC	AG	0.52	357	PASS	NOX5	upstream_gene_variant	Primary
chr15	74619971	T	G	0.187	794	PASS	CLK3	intron_variant	Primary
chr15	79025348	A	G	0.205	408	PASS	RASGRF1	missense_variant	Primary
chr15	80989762	A	G	0.197	392	PASS	MESD	synonymous_variant	Primary
chr15	81374132	T	C	0.017	374	PASS	TMC3	5_prime_utr_variant	Primary
chr15	82343155	A	C	0.772	308	PASS	GOLGA6L10	missense_variant	Primary
chr15	82345216	C	A	0.655	1372	PASS	GOLGA6L10	missense_variant	Primary
chr15	82345980	GT	CC	0.226	318	PASS	GOLGA6L10	intron_variant	Primary
chr15	82430096	A	G	0.978	50	PASS	GOLGA6L9	missense_variant	Primary
chr15	82431812	C	T	0.986	172	PASS	GOLGA6L9	intron_variant	Primary
chr15	82434266	AC	GT	0.206	906	PASS	GOLGA6L9	missense_variant	Primary
chr15	82434465	T	C	0.049	112	PASS	GOLGA6L9	stop_gained	Primary
chr15	82524069	C	CGTGAA(	0.11	158	PASS	GOLGA6L17P	non_coding_transcript_exon_variant	Primary
chr15	82524937	A	G	0.214	289	PASS	GOLGA6L17P	intron_variant&non_coding_transcript_variant	Primary
chr15	90257134	T	C	0.162	439	PASS	TTLL13	splice_region_variant&splice_polypyrimidine_tract_vari	Primary
chr15	90918293	T	C	0.034	179	PASS	MAN2A2	stop_gained	Primary
chr15	101922112	C	T	0.277	196	PASS	OR4F4	3_prime_utr_variant	Primary
chr15	101966111	G	C	0.113	198	PASS	.	non_coding_transcript_exon_variant	Primary
chr16	281826	C	G	0.438	234	PASS	ARHGDIG	missense_variant	Primary
chr16	2114921	T	G	0.07	65	PASS	PKD1	missense_variant	Primary
chr16	2324392	T	C	0.55	165	PASS	ABCA3	intron_variant	Primary
chr16	3089669	A	G	0.075	539	PASS	ZSCAN10	missense_variant	Primary
chr16	5090241	T	C	0.031	543	PASS	EEF2KMT	synonymous_variant	Primary
chr16	5090243	TG	CA	0.03	546	PASS	EEF2KMT	missense_variant	Primary
chr16	8645986	CGCCTG(	C	0.996	449	PASS	METTL22	intron_variant	Primary
chr16	9764661	A	G	0.5	5386	PASS	GRIN2A	synonymous_variant	Primary
chr16	11398466	A	G	0.2	550	PASS	.	missense_variant	Primary
chr16	11999364	T	C	0.446	873	PASS	SNX29	splice_donor_region_variant&intron_variant	Primary
chr16	14918846	C	T	0.139	85	PASS	PKD1P3	non_coding_transcript_exon_variant	Primary
chr16	14951909	T	C	0.271	1454	PASS	NPIPA1	missense_variant	Primary
chr16	14975345	C	T	0.071	1059	PASS	PDXDC1	intron_variant	Primary
chr16	15129957	T	C	0.28	275	PASS	PDXDC1	intron_variant	Primary

chr16	16208729	C	T	0.344	627	PASS	ABCC6	missense_variant&splice_region_variant	Primary
chr16	18347905	G	A	0.14	255	PASS	PKD1P4	non_coding_transcript_exon_variant	Primary
chr16	28757992	C	CA	0.079	71	PASS	NPIPB9	intron_variant	Primary
chr16	28757997	T	G	0.079	71	PASS	NPIPB9	intron_variant	Primary
chr16	29086307	T	A	0.086	65	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr16	29086308	ATGTGTC	A	0.086	64	PASS	PLA2G10CP	intron_variant&non_coding_transcript_variant	Primary
chr16	29383175	C	T	0.029	562	PASS	NPIPB11	missense_variant	Primary
chr16	31793797	T	A	0.212	220	PASS	KRBOX5	non_coding_transcript_exon_variant	Primary
chr16	50668036	T	C	0.351	321	PASS	.	non_coding_transcript_exon_variant	Primary
chr16	51142131	A	C	0.202	278	PASS	SALL1	missense_variant	Primary
chr16	55812849	T	C	0.202	679	PASS	CES1	intron_variant	Primary
chr16	58284658	C	G	0.498	473	PASS	PRSS54	missense_variant	Primary
chr16	74389175	G	C	0.141	232	PASS	NPIPB15	intron_variant	Primary
chr17	138824	A	C	0.99	311	PASS	SCGB1C2	intron_variant	Primary
chr17	2998283	A	G	0.2	550	PASS	RAP1GAP2	synonymous_variant	Primary
chr17	6758681	A	G	0.023	1002	PASS	XAF1	intron_variant	Primary
chr17	7675085	T	C	0.419	2250	PASS	TP53	missense_variant	Primary
chr17	8509911	T	C	0.025	405	PASS	MYH10	synonymous_variant	Primary
chr17	10728978	T	C	0.022	323	PASS	TMEM220	intron_variant	Primary
chr17	16382069	C	T	0.02	567	PASS	UBB	synonymous_variant	Primary
chr17	18091852	TG	CA	0.989	129	PASS	DRG2	intron_variant	Primary
chr17	21043507	G	A	0.308	520	PASS	USP22	upstream_gene_variant	Primary
chr17	22204310	T	G	0.039	317	PASS	UBBP4	non_coding_transcript_exon_variant	Primary
chr17	28048003	A	G	0.478	88	PASS	NLK	intron_variant	Primary
chr17	28369358	G	C	0.502	645	PASS	VTN	missense_variant	Primary
chr17	29632116	T	TTG	0.233	865	PASS	SSH2	frameshift_variant	Primary
chr17	31295017	A	C	0.023	150	PASS	OMG	missense_variant	Primary
chr17	36171845	A	G	0.387	91	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr17	36195196	A	G	0.708	344	PASS	CCL3L3	3_prime_utr_variant	Primary
chr17	36195296	G	A	0.302	957	PASS	CCL3L3	missense_variant	Primary
chr17	36195375	G	A	0.294	1165	PASS	CCL3L3	missense_variant&splice_region_variant	Primary
chr17	36195866	C	T	0.297	1257	PASS	CCL3L3	synonymous_variant	Primary
chr17	36196527	G	A	0.997	379	PASS	CCL3L3	intron_variant	Primary
chr17	36211278	T	G	0.998	728	PASS	CCL4L2	intron_variant	Primary
chr17	36211979	C	T	0.996	350	PASS	CCL4L2	intron_variant	Primary
chr17	36212342	GA	CG	0.998	610	PASS	CCL4L2	missense_variant	Primary
chr17	36254409	A	G	0.268	54	PASS	TBC1D3I	missense_variant	Primary
chr17	36307282	A	T	0.16	78	PASS	.	splice_polypyrimidine_tract_variant&intron_variant&no	Primary
chr17	36332312	A	G	0.394	64	PASS	TBC1D3G	missense_variant	Primary
chr17	36452733	A	G	0.39	240	PASS	TBC1D3JP	non_coding_transcript_exon_variant	Primary
chr17	37635608	T	A	0.374	381	PASS	DDX52	intron_variant	Primary
chr17	39745244	G	A	0.036	188	PASS	GRB7	missense_variant&splice_region_variant	Primary
chr17	40818851	AGCTGC(	A	0.514	304	PASS	KRT10	inframe_insertion	Primary
chr17	41034702	GCAGCA(	G	0.345	935	PASS	KRTAP1-3	inframe_insertion	Primary
chr17	41117835	C	G	0.056	626	PASS	KRTAP4-11	missense_variant	Primary
chr17	41140002	T	C	0.301	753	PASS	KRTAP4-6	synonymous_variant	Primary
chr17	41140077	T	TGGCTG(	0.014	768	PASS	KRTAP4-6	inframe_deletion	Primary
chr17	41275814	T	G	0.02	1009	PASS	KRTAP9-7	synonymous_variant	Primary
chr17	41422764	GC	AG	0.164	103	PASS	KRT37	intron_variant	Primary
chr17	41503412	T	C	0.046	459	PASS	KRT13	missense_variant	Primary
chr17	41567235	A	T	0.182	187	PASS	KRT9	splice_region_variant&3_prime_utr_variant	Primary
chr17	46171133	C	G	0.309	1786	PASS	KANSL1	synonymous_variant	Primary
chr17	46171730	C	A	0.366	1128	PASS	KANSL1	synonymous_variant	Primary
chr17	46171833	G	T	0.34	1005	PASS	KANSL1	missense_variant	Primary
chr17	46243907	C	A	0.896	55	PASS	MAPK8IP1P1	non_coding_transcript_exon_variant	Primary
chr17	46259756	T	C	0.244	934	PASS	.	non_coding_transcript_exon_variant	Primary
chr17	46259843	T	C	0.155	1442	PASS	.	non_coding_transcript_exon_variant	Primary
chr17	46528798	A	G	0.074	202	PASS	LRRC37A2	intron_variant	Primary
chr17	46548670	A	G	0.198	770	PASS	LRRC37A2	synonymous_variant	Primary
chr17	46548981	C	T	0.39	1683	PASS	LRRC37A2	missense_variant	Primary
chr17	47033320	C	G	0.147	167	PASS	.	splice_region_variant&non_coding_transcript_exon_var	Primary
chr17	47923156	T	C	0.185	605	PASS	SP2	synonymous_variant	Primary
chr17	58617559	C	G	0.491	226	PASS	TEX14	missense_variant	Primary
chr17	64822018	C	G	0.115	694	PASS	.	non_coding_transcript_exon_variant	Primary
chr17	67138031	G	A	0.474	428	PASS	HELZ	synonymous_variant	Primary
chr17	69304746	T	C	0.54	69	PASS	ABCA5	missense_variant	Primary
chr17	72736813	G	A	0.032	150	PASS	SLC39A11	intron_variant	Primary
chr17	75937609	G	C	0.49	465	PASS	FBF1	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr17	78974783	A	G	0.023	475	PASS	LGALS3BP	missense_variant	Primary
chr17	79784185	C	G	0.506	587	PASS	CBX2	missense_variant	Primary
chr17	81379949	A	G	0.507	66	PASS	LINC03048	intron_variant&non_coding_transcript_variant	Primary
chr17	81810972	G	A	0.33	388	PASS	GCGR	intron_variant	Primary
chr17	82374399	A	T	0.253	208	PASS	UTS2R	synonymous_variant	Primary
chr18	7013998	A	G	0.492	1009	PASS	LAMA1	synonymous_variant	Primary
chr18	7926563	T	TGTAGC(	0.012	651	PASS	PTPRM	splice_acceptor_variant&coding_sequence_variant&intr	Primary
chr18	10759688	A	G	0.011	860	PASS	PIEZO2	intron_variant	Primary
chr18	23813122	C	G	0.204	224	PASS	LAMA3	intron_variant	Primary
chr18	34882022	A	T	0.754	179	PASS	DTNA	intron_variant	Primary
chr18	46098362	AAC	A	0.183	59	PASS	ATP5F1A	upstream_gene_variant	Primary
chr18	46509716	T	C	0.259	448	PASS	LOXHD1	synonymous_variant	Primary
chr18	47035248	C	G	0.268	378	PASS	ELOA2	missense_variant	Primary
chr18	47035259	T	C	0.261	367	PASS	ELOA2	synonymous_variant	Primary
chr18	58351055	T	C	0.032	186	PASS	NEDD4L	intron_variant	Primary
chr18	63331755	A	AC	0.279	1202	PASS	KDSR	3_prime_utr_variant	Primary
chr18	63331757	A	AG	0.279	1202	PASS	KDSR	3_prime_utr_variant	Primary
chr19	425073	A	G	0.022	351	PASS	SHC2	intron_variant	Primary

chr19	1622424	A	G	0.722	241	PASS	TCF3	splice_polypyrimidine_tract_variant&intron_variant	Primary
chr19	7505306	G	A	0.026	228	PASS	TEX45	intron_variant	Primary
chr19	8891843	C	G	0.274	1074	PASS	MUC16	missense_variant	Primary
chr19	8895694	G	A	0.112	284	PASS	MUC16	synonymous_variant	Primary
chr19	8916981	A	C	0.021	407	PASS	MUC16	intron_variant	Primary
chr19	8949340	A	C	0.186	834	PASS	MUC16	missense_variant	Primary
chr19	14160744	A	AGAG	0.022	175	PASS	ADGRL1	intron_variant	Primary
chr19	17487090	T	C	0.015	406	PASS	SLC27A1	intron_variant	Primary
chr19	18931976	A	C	0.074	54	PASS	HOMER3	splice_region_variant&synonymous_variant	Primary
chr19	18938522	A	G	0.505	702	PASS	HOMER3	intron_variant	Primary
chr19	19505356	G	C	0.43	313	PASS	GATAD2A	missense_variant	Primary
chr19	38950233	T	C	0.475	580	PASS	FBXO17	synonymous_variant	Primary
chr19	39891772	T	C	0.033	1174	PASS	FCGBP	missense_variant	Primary
chr19	40048850	T	C	0.108	343	PASS	ZNF780B	intron_variant	Primary
chr19	40370082	A	C	0.53	770	PASS	PLD3	intron_variant	Primary
chr19	40442025	A	C	0.073	149	PASS	SERTAD3	missense_variant	Primary
chr19	40778492	CA	TG	0.49	279	PASS	RAB4B	intron_variant	Primary
chr19	41016802	G	A	0.02	411	PASS	CYP2B6	missense_variant	Primary
chr19	41579543	T	G	0.229	603	PASS	CEACAM21	missense_variant	Primary
chr19	44496520	C	A	0.522	98	PASS	ZNF180	intron_variant	Primary
chr19	45785972	T	C	0.042	460	PASS	DMWD	synonymous_variant	Primary
chr19	47680164	A	G	0.206	268	PASS	BICRA	missense_variant	Primary
chr19	48510162	A	G	0.471	424	PASS	LMTK3	synonymous_variant	Primary
chr19	49101346	T	C	0.193	423	PASS	SNRNP70	intron_variant	Primary
chr19	49696520	G	T	0.047	55	PASS	CPT1C	intron_variant	Primary
chr19	52799895	A	G	0.05	243	PASS	ZNF28	synonymous_variant	Primary
chr19	53140881	T	A	0.022	494	PASS	ZNF347	synonymous_variant	Primary
chr19	53183041	A	C	0.193	230	PASS	ZNF665	intron_variant	Primary
chr19	54220739	A	C	0.495	867	PASS	LILRB3	synonymous_variant	Primary
chr19	54222756	C	T	0.666	1361	PASS	LILRB3	missense_variant	Primary
chr19	54222987	T	C	0.313	1132	PASS	LILRB3	5_prime_utr_variant	Primary
chr19	54242117	C	T	0.448	1207	PASS	LILRA6	missense_variant	Primary
chr19	54336935	C	T	0.114	1836	PASS	LILRA4	synonymous_variant	Primary
chr19	54463591	A	T	0.988	121	PASS	LENG9	5_prime_utr_variant	Primary
chr19	54595586	T	A	0.065	369	PASS	LILRA1	intron_variant	Primary
chr19	54667677	G	A	0.095	481	PASS	LILRB4	missense_variant	Primary
chr19	54727771	T	C	0.421	941	PASS	KIR3DL3	synonymous_variant	Primary
chr19	54755120	T	G	0.266	894	PASS	KIR2DP1	intron_variant&non_coding_transcript_variant	Primary
chr19	54773534	A	C	0.3	2756	PASS	KIR2DL1	missense_variant	Primary
chr19	54773593	T	G	0.275	2693	PASS	KIR2DL1	missense_variant	Primary
chr19	54773692	C	A	0.209	1264	PASS	KIR2DL1	intron_variant	Primary
chr19	54773699	G	A	0.205	1192	PASS	KIR2DL1	intron_variant	Primary
chr19	54837942	G	A	0.198	628	PASS	KIR2DS4	intron_variant	Primary
chr19	54855560	G	A	0.066	663	PASS	KIR3DL2	intron_variant	Primary
chr19	54855661	A	C	0.017	1346	PASS	KIR3DL2	missense_variant	Primary
chr19	54865908	A	G	0.025	509	PASS	KIR3DL2	splice_region_variant&synonymous_variant	Primary
chr19	57491772	TG	CA	0.076	185	PASS	ZNF419	intron_variant	Primary
chr20	2483536	G	A	0.013	1086	PASS	ZNF343	synonymous_variant	Primary
chr20	8018995	A	G	0.312	653	PASS	TMX4	intron_variant	Primary
chr20	10641597	T	C	0.015	1085	PASS	JAG1	missense_variant	Primary
chr20	24665463	A	G	0.567	595	PASS	SYNDIG1	missense_variant	Primary
chr20	41204565	T	C	0.011	1090	PASS	ZHX3	missense_variant	Primary
chr20	42677938	T	G	0.012	1895	PASS	PTPRT	missense_variant	Primary
chr20	46022943	GGGA	G	0.961	232	PASS	SLC12A5	intron_variant	Primary
chr20	47633652	A	G	0.364	1415	PASS	NCOA3	intron_variant	Primary
chr20	54476047	A	G	0.16	678	PASS	DOK5	intron_variant	Primary
chr20	56637826	A	G	0.42	1000	PASS	TFAP2C	missense_variant	Primary
chr21	5033666	A	G	0.608	248	PASS	.	intergenic_variant	Primary
chr21	28931146	C	T	0.511	118	PASS	LTN1	intron_variant	Primary
chr21	45939993	A	G	0.231	138	PASS	PCBP3	intron_variant	Primary
chr22	15820147	A	G	0.283	172	PASS	DUXAP8	intron_variant&non_coding_transcript_variant	Primary
chr22	17369970	A	G	0.526	132	PASS	CECR2	intron_variant	Primary
chr22	17549225	T	C	0.198	864	PASS	CECR2	missense_variant	Primary
chr22	18787762	A	G	0.166	483	PASS	.	intron_variant&non_coding_transcript_variant	Primary
chr22	20703127	C	T	0.053	427	PASS	TMEM191A	splice_donor_5th_base_variant&intron_variant&non_co	Primary
chr22	20996080	T	C	0.477	1595	PASS	LZTR1	synonymous_variant	Primary
chr22	22376327	T	C	0.185	895	PASS	IGLV5-45	missense_variant	Primary
chr22	22376333	G	A	0.187	893	PASS	IGLV5-45	missense_variant	Primary
chr22	26622751	A	C	0.492	149	PASS	CRYBA4	intron_variant	Primary
chr22	29489222	G	GCTGAG	0.015	404	PASS	NEFH	inframe_deletion	Primary
chr22	31095586	A	G	0.457	526	PASS	SMTN	missense_variant	Primary
chr22	32360836	CT	GC	0.023	470	PASS	RFPL3S	splice_region_variant&non_coding_transcript_exon_var	Primary
chr22	36935279	T	C	0.492	237	PASS	CSF2RB	intron_variant	Primary
chr22	41987337	C	T	0.492	396	PASS	SEPTIN3	intron_variant	Primary
chr22	42126611	G	C	0.465	978	PASS	CYP2D6	missense_variant	Primary
chr22	42127803	T	C	0.505	1140	PASS	NDUFA6-DT	intron_variant&non_coding_transcript_variant	Primary
chr22	42129130	G	C	0.448	1102	PASS	CYP2D6	synonymous_variant	Primary
chr22	42129950	C	A	0.474	183	PASS	NDUFA6-DT	intron_variant&non_coding_transcript_variant	Primary
chr22	42140200	G	A	0.427	486	PASS	.	downstream_gene_variant	Primary
chr22	42143622	C	A	0.441	139	PASS	CYP2D7	intron_variant	Primary
chr22	48646730	TT	GC	0.027	460	PASS	TAFA5	missense_variant	Primary
chr22	50220737	T	TGGGAG	0.011	3017	PASS	TUBGCP6	inframe_deletion	Primary
chr22	50220783	A	AGACAC	0.016	3271	PASS	TUBGCP6	inframe_deletion	Primary
chrX	315221	C	T	0.662	649	PASS	GTPBP6	splice_region_variant&intron_variant	Primary
chrX	346853	A	G	0.03	559	PASS	PPP2R3B	intron_variant	Primary
chrX	1191074	C	T	0.557	335	PASS	CRLF2	synonymous_variant	Primary

chrX	1191089	A	G	0.558	318	PASS	CRLF2	synonymous_variant	Primary
chrX	2859990	A	G	0.997	400	PASS	GYG2	synonymous_variant	Primary
chrX	19351308	A	G	0.45	241	PASS	PDHA1	missense_variant	Primary
chrX	45053912	G	GAAGC	0.02	950	PASS	KDM6A	frameshift_variant	Primary
chrX	49162895	C	G	0.993	203	PASS	MAGIX	missense_variant	Primary
chrX	53565023	A	G	0.992	151	PASS	HUWE1	intron_variant	Primary
chrX	73453605	G	T	0.436	62	PASS	CDX4	stop_gained	Primary
chrX	74591813	A	G	0.096	180	PASS	RLIM	missense_variant	Primary
chrX	74593081	A	G	0.987	88	PASS	RLIM	intron_variant	Primary
chrX	76428444	A	ACGAGC	0.01	1118	PASS	MAGEE1	inframe_deletion	Primary
chrX	77448031	T	C	0.978	50	PASS	FGF16	intron_variant	Primary
chrX	101656080	C	T	0.995	225	PASS	ARMCX2	synonymous_variant	Primary
chrX	103500463	T	G	0.997	333	PASS	RAB40A	missense_variant	Primary
chrX	107597779	A	T	0.403	340	PASS	FRMPD3	missense_variant	Primary
chrX	115191561	A	G	0.997	433	PASS	RBMXL3	missense_variant	Primary
chrX	149598196	A	G	0.066	56	PASS	TMEM185A	stop_gained	Primary
chrX	150512284	C	T	0.994	221	PASS	MAMLD1	3_prime_utr_variant	Primary
chrX	152915171	C	CT	0.421	266	PASS	ZNF185	frameshift_variant	Primary
chrX	153421236	A	C	0.018	325	PASS	ZFP92	missense_variant	Primary
chrX	153447803	A	G	0.033	181	PASS	HAUS7	3_prime_utr_variant	Primary
chrX	153958514	A	G	0.995	253	PASS	HCFC1	intron_variant	Primary
chrX	156021706	G	C	0.146	83	PASS	WASH6P	missense_variant	Primary
chrY	8695423	A	G	0.993	177	PASS	LINC00279	intron_variant&non_coding_transcript_variant	Primary
chrY	12859387	C	G	0.057	56	PASS	USP9Y	missense_variant	Primary
chrY	13479565	C	T	0.997	504	PASS	UTY	missense_variant	Primary
chr1	17594	T	C	0.191	145	PASS	WASH7P	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	183189	C	G	0.116	59	PASS	DDX11L17	non_coding_transcript_exon_variant	Dura AdCa
chr1	183274	A	G	0.15	108	PASS	DDX11L17	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	184142	T	C	0.04	146	PASS	DDX11L17	non_coding_transcript_exon_variant	Dura AdCa
chr1	999495	T	C	0.451	154	PASS	HES4	intron_variant	Dura AdCa
chr1	1223422	G	A	0.431	157	PASS	SDF4	intron_variant	Dura AdCa
chr1	1264845	C	T	0.098	72	PASS	UBE2J2	intron_variant	Dura AdCa
chr1	1637398	C	G	0.036	156	PASS	CDK11B	intron_variant	Dura AdCa
chr1	1716403	T	C	0.023	328	PASS	CDK11A	missense_variant	Dura AdCa
chr1	6474096	A	G	0.029	254	PASS	PLEKHG5	missense_variant	Dura AdCa
chr1	6544895	T	A	0.036	250	PASS	NOL9	missense_variant	Dura AdCa
chr1	12883168	TG	CA	0.602	167	PASS	PRAMEF4	missense_variant	Dura AdCa
chr1	13224919	A	T	0.275	172	PASS	PRAMEF18	missense_variant	Dura AdCa
chr1	13225068	G	A	0.224	310	PASS	PRAMEF18	missense_variant	Dura AdCa
chr1	13225208	G	C	0.241	593	PASS	PRAMEF18	synonymous_variant	Dura AdCa
chr1	13306781	G	A	0.278	124	PASS	PRAMEF33	missense_variant	Dura AdCa
chr1	13318650	G	A	0.225	280	PASS	PRAMEF15	synonymous_variant	Dura AdCa
chr1	15034902	G	C	0.023	94	PASS	KAZN	intron_variant	Dura AdCa
chr1	16646619	A	AGCCAT(	0.118	1111	PASS	CROCCP2	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	16761036	A	G	0.181	1083	PASS	CROCC	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	17422634	A	G	0.024	240	PASS	RCC2	intron_variant	Dura AdCa
chr1	21706190	T	A	0.036	115	PASS	USP48	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr1	21706203	T	C	0.039	106	PASS	USP48	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr1	23802500	A	G	0.028	226	PASS	HMGCL	missense_variant	Dura AdCa
chr1	26166079	A	G	0.527	282	PASS	C1orf232	missense_variant	Dura AdCa
chr1	27760024	A	C	0.033	173	PASS	FAM76A	intron_variant	Dura AdCa
chr1	33569487	G	A	0.399	390	PASS	CSMD2	missense_variant	Dura AdCa
chr1	35736604	A	T	0.033	140	PASS	CLSPN	splice_region_variant&synonymous_variant	Dura AdCa
chr1	36308186	A	G	0.568	325	PASS	SH3D21	missense_variant	Dura AdCa
chr1	37984313	T	A	0.032	149	PASS	SF3A3	intron_variant	Dura AdCa
chr1	40315539	T	C	0.048	77	PASS	COL9A2	intron_variant	Dura AdCa
chr1	42653855	G	C	0.043	64	PASS	CCDC30	missense_variant	Dura AdCa
chr1	44130720	G	T	0.03	194	PASS	KLF17	missense_variant	Dura AdCa
chr1	44139048	TCTGGTT	T	0.99	455	PASS	KLF18	inframe_insertion	Dura AdCa
chr1	44139505	A	G	0.012	815	PASS	KLF18	synonymous_variant	Dura AdCa
chr1	44139841	G	A	0.069	747	PASS	KLF18	synonymous_variant	Dura AdCa
chr1	44851040	T	G	0.17	53	PASS	EIF2B3	intron_variant	Dura AdCa
chr1	46309992	A	G	0.027	395	PASS	UQCRH	intron_variant	Dura AdCa
chr1	51448176	CCATTAA	C	0.038	151	PASS	EPS15	intron_variant	Dura AdCa
chr1	52446432	ACTAGGT	A	0.07	144	PASS	TUT4	stop_gained&frameshift_variant	Dura AdCa
chr1	55089733	TGAAGT(	T	0.059	98	PASS	USP24	inframe_insertion	Dura AdCa
chr1	55092049	C	A	0.438	131	PASS	USP24	synonymous_variant	Dura AdCa
chr1	62084601	T	C	0.033	279	PASS	PATJ	missense_variant	Dura AdCa
chr1	64140183	CTGAGC/	C	0.024	257	PASS	ROR1	frameshift_variant	Dura AdCa
chr1	64140185	CATAGTT	C	0.024	258	PASS	ROR1	stop_gained&frameshift_variant	Dura AdCa
chr1	65254515	T	G	0.44	119	PASS	DNAJC6	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	70365344	T	C	0.896	150	PASS	HHLA3	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	84410938	GCTTGG(	G	0.085	223	PASS	DNASE2B	stop_gained&frameshift_variant	Dura AdCa
chr1	92792250	T	A	0.064	61	PASS	EVI5	intron_variant	Dura AdCa
chr1	99712018	T	C	0.431	85	PASS	FRRS1	intron_variant	Dura AdCa
chr1	101804649	A	ACCCCA	0.035	127	PASS	OLFM3	frameshift_variant	Dura AdCa
chr1	101846856	A	G	0.867	56	PASS	OLFM3	intron_variant	Dura AdCa
chr1	111120691	TATACTC	T	0.07	98	PASS	DRAM2	frameshift_variant&splice_region_variant	Dura AdCa
chr1	111120693	TTACTTA	T	0.07	98	PASS	DRAM2	stop_gained&inframe_insertion&splice_region_variant	Dura AdCa
chr1	111231179	C	T	0.49	131	PASS	CHI3L2	intron_variant	Dura AdCa
chr1	116067082	GGCTTTC	G	0.056	127	PASS	SLC22A15	stop_gained&frameshift_variant	Dura AdCa
chr1	120258388	C	T	0.069	115	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	120494371	G	GGCCAT(	0.021	220	PASS	PDE4DIPP2	non_coding_transcript_exon_variant	Dura AdCa
chr1	120543014	C	T	0.469	109	PASS	.	splice_donor_region_variant&intron_variant&non_codin	Dura AdCa
chr1	120890143	G	A	0.051	312	PASS	PPIAL4A	missense_variant	Dura AdCa
chr1	143796246	C	T	0.982	65	PASS	LINC02591	non_coding_transcript_exon_variant	Dura AdCa

chr1	144905217	A	G	0.04	216	PASS	SRGAP2B	splice_region_variant&synonymous_variant	Dura AdCa
chr1	145241802	C	T	0.395	153	PASS	PPIAL4D	missense_variant	Dura AdCa
chr1	145292353	C	T	0.113	116	PASS	NBPF20	intron_variant	Dura AdCa
chr1	145574836	T	TTTTGAT	0.066	152	PASS	NBPF25P	non_coding_transcript_exon_variant	Dura AdCa
chr1	147631053	G	C	0.297	98	PASS	ACP6	stop_lost	Dura AdCa
chr1	148572622	C	A	0.056	85	PASS	NBPF14	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr1	149176847	C	T	0.513	147	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	149607944	C	G	0.172	185	PASS	LINC00869	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	149607947	C	G	0.171	188	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr1	151368992	T	C	0.498	379	PASS	SELENBP1	intron_variant	Dura AdCa
chr1	152213623	T	C	0.646	250	PASS	HRNR	missense_variant	Dura AdCa
chr1	152214116	G	T	0.066	62	PASS	HRNR	missense_variant	Dura AdCa
chr1	152214176	C	T	0.022	467	PASS	HRNR	missense_variant	Dura AdCa
chr1	152214592	T	G	0.118	2687	PASS	HRNR	missense_variant	Dura AdCa
chr1	152313565	CGTGGC(	C	0.014	661	PASS	FLG	stop_gained&frameshift_variant	Dura AdCa
chr1	152351448	C	A	0.019	454	PASS	FLG2	missense_variant	Dura AdCa
chr1	152351463	T	G	0.033	460	PASS	FLG2	missense_variant	Dura AdCa
chr1	154012427	CAATT	C	0.049	118	PASS	NUP210L	intron_variant	Dura AdCa
chr1	154012428	CATTTAT	C	0.05	117	PASS	NUP210L	intron_variant	Dura AdCa
chr1	158843989	A	C	0.05	88	PASS	MNDA	missense_variant	Dura AdCa
chr1	158849178	A	C	0.071	68	PASS	MNDA	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr1	159066010	C	G	0.397	227	PASS	AIM2	missense_variant	Dura AdCa
chr1	160031429	C	A	0.542	192	PASS	PIGM	missense_variant	Dura AdCa
chr1	160152218	C	T	0.043	61	PASS	ATP1A4	intron_variant	Dura AdCa
chr1	160195116	T	C	0.467	133	PASS	CASQ1	synonymous_variant	Dura AdCa
chr1	160752273	TG	CA	0.507	105	PASS	SLAMF7	intron_variant	Dura AdCa
chr1	167787824	G	C	0.047	94	PASS	MPZL1	missense_variant	Dura AdCa
chr1	174220968	A	G	0.441	111	PASS	RABGAP1L	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr1	185734850	T	C	0.029	155	PASS	HMCN1	missense_variant	Dura AdCa
chr1	185734856	T	C	0.038	161	PASS	HMCN1	missense_variant	Dura AdCa
chr1	186178656	A	ACAGCT(	0.043	117	PASS	HMCN1	inframe_deletion	Dura AdCa
chr1	193180474	T	C	0.03	226	PASS	B3GALT2	synonymous_variant	Dura AdCa
chr1	198732592	ATCTCAT	A	0.098	267	PASS	PTPRC	intron_variant	Dura AdCa
chr1	202962649	GAGAGT(	G	0.049	321	PASS	CYB5R1	stop_gained&frameshift_variant	Dura AdCa
chr1	205984165	T	G	0.992	194	PASS	RAB7B	intron_variant	Dura AdCa
chr1	212386985	A	G	0.409	282	PASS	PACC1	synonymous_variant	Dura AdCa
chr1	212780065	C	G	0.118	70	PASS	NSL1	intron_variant	Dura AdCa
chr1	216048619	TAGATA1	T	0.111	132	PASS	USH2A	stop_gained&protein_altering_variant	Dura AdCa
chr1	219918368	CGTGAG(	C	0.033	230	PASS	SLC30A10	stop_gained&frameshift_variant	Dura AdCa
chr1	220599753	G	A	0.468	67	PASS	MARK1	intron_variant	Dura AdCa
chr1	235504390	A	G	0.365	56	PASS	B3GALNT2	5_prime_utr_variant	Dura AdCa
chr1	240092805	C	T	0.852	79	PASS	FMN2	synonymous_variant	Dura AdCa
chr1	241674645	C	T	0.184	59	PASS	WDR64	splice_region_variant&synonymous_variant	Dura AdCa
chr1	241853411	TACACAC	T	0.036	172	PASS	EXO1	stop_gained&frameshift_variant	Dura AdCa
chr1	242449317	G	A	0.135	113	PASS	PLD5	intron_variant	Dura AdCa
chr1	243165585	T	G	0.163	90	PASS	CEP170	stop_gained	Dura AdCa
chr1	244054903	T	C	0.011	686	PASS	ZBTB18	stop_gained	Dura AdCa
chr1	247100759	G	GTACATT	0.018	377	PASS	ZNF669	inframe_deletion	Dura AdCa
chr1	247605799	T	TGCTTCA	0.012	434	PASS	OR2G3	inframe_deletion	Dura AdCa
chr1	248453100	A	G	0.193	524	PASS	OR2T2	synonymous_variant	Dura AdCa
chr1	248453107	T	C	0.194	529	PASS	OR2T2	missense_variant	Dura AdCa
chr2	1666526	A	G	0.028	181	PASS	PXDN	intron_variant	Dura AdCa
chr2	14634426	A	C	0.024	216	PASS	LRATD1	synonymous_variant	Dura AdCa
chr2	17714908	T	C	0.505	138	PASS	SMC6	synonymous_variant	Dura AdCa
chr2	25130488	C	A	0.518	236	PASS	EFR3B	intron_variant	Dura AdCa
chr2	27206532	T	C	0.509	187	PASS	SLC5A6	splice_region_variant&synonymous_variant	Dura AdCa
chr2	27374205	A	AAGGGT/	0.029	137	PASS	SNX17	intron_variant	Dura AdCa
chr2	27650185	A	G	0.039	200	PASS	GPN1	synonymous_variant	Dura AdCa
chr2	27650261	C	G	0.049	121	PASS	GPN1	3_prime_utr_variant	Dura AdCa
chr2	30459712	A	AAAAGC	0.021	240	PASS	LCLAT1	intron_variant	Dura AdCa
chr2	31178617	G	T	0.415	97	PASS	CAPN14	intron_variant	Dura AdCa
chr2	38861250	AGAGTC1	A	0.039	176	PASS	DHX57	stop_gained&frameshift_variant	Dura AdCa
chr2	38929721	G	A	0.029	103	PASS	ARHGEF33	missense_variant	Dura AdCa
chr2	38935890	TAACATC	T	0.057	106	PASS	ARHGEF33	intron_variant	Dura AdCa
chr2	42286381	TCCTTTC	T	0.041	332	PASS	EML4	splice_region_variant&intron_variant	Dura AdCa
chr2	43801586	A	G	0.373	93	PASS	DYNC2LI1	intron_variant	Dura AdCa
chr2	58160123	G	A	0.866	207	PASS	FANCL	synonymous_variant	Dura AdCa
chr2	71073543	A	G	0.114	183	PASS	NAGK	synonymous_variant	Dura AdCa
chr2	71078302	GTGT	G	0.151	119	PASS	NAGK	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr2	71644058	T	C	0.886	104	PASS	DYSF	synonymous_variant	Dura AdCa
chr2	73214257	G	C	0.117	415	PASS	SMYD5	5_prime_utr_variant	Dura AdCa
chr2	73214385	T	C	0.147	236	PASS	SMYD5	intron_variant	Dura AdCa
chr2	73448695	GCCTTTT	G	0.047	127	PASS	ALMS1	frameshift_variant	Dura AdCa
chr2	74459919	T	C	0.783	260	PASS	WBP1	synonymous_variant	Dura AdCa
chr2	75646803	G	C	0.866	217	PASS	MRPL19	5_prime_utr_variant	Dura AdCa
chr2	75687859	T	A	0.88	82	PASS	GCFC2	missense_variant	Dura AdCa
chr2	89221621	A	T	0.452	97	PASS	IGKV2-28	downstream_gene_variant	Dura AdCa
chr2	89640376	T	C	0.234	166	PASS	KMT2CP4	intron_variant&non_coding_transcript_variant	Dura AdCa
chr2	90069816	CAATAC(	C	0.089	59	PASS	IGKV6D-41	intron_variant	Dura AdCa
chr2	95176282	CCACAC/	C	0.027	283	PASS	ZNF2	intron_variant	Dura AdCa
chr2	98121421	A	G	0.506	362	PASS	VWA3B	missense_variant	Dura AdCa
chr2	99394804	GGCATG/	G	0.061	125	PASS	EIF5B	protein_altering_variant	Dura AdCa
chr2	100988173	T	C	0.49	245	PASS	NPAS2	missense_variant	Dura AdCa
chr2	101402553	A	G	0.52	340	PASS	RFX8	synonymous_variant	Dura AdCa
chr2	102225970	C	T	0.485	205	PASS	IL1RL2	missense_variant	Dura AdCa
chr2	102719187	G	A	0.48	342	PASS	MFSD9	missense_variant	Dura AdCa

chr2	108383481	G	C	0.505	166	PASS	SULT1C4	missense_variant	Dura AdCa
chr2	111123759	A	C	0.435	375	PASS	BCL2L11	missense_variant	Dura AdCa
chr2	111150001	A	G	0.557	386	PASS	BCL2L11	intron_variant	Dura AdCa
chr2	111150163	G	T	0.462	423	PASS	BCL2L11	intron_variant	Dura AdCa
chr2	113236565	A	G	0.251	383	PASS	PAX8-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr2	127261254	AGAATC	A	0.06	236	PASS	ERCC3	stop_gained&frameshift_variant	Dura AdCa
chr2	134936927	G	T	0.102	163	PASS	CCNT2	synonymous_variant	Dura AdCa
chr2	135135776	G	A	0.038	75	PASS	RAB3GAP1	synonymous_variant	Dura AdCa
chr2	135135797	T	A	0.034	84	PASS	RAB3GAP1	missense_variant	Dura AdCa
chr2	141055198	T	A	0.029	173	PASS	LRP1B	stop_gained	Dura AdCa
chr2	148483570	C	T	0.939	184	PASS	MBD5	synonymous_variant	Dura AdCa
chr2	159136289	GTCTTT	G	0.05	143	PASS	TANC1	frameshift_variant	Dura AdCa
chr2	159136291	TGGAGC	T	0.051	141	PASS	TANC1	stop_gained&frameshift_variant	Dura AdCa
chr2	159332677	TCATGC	T	0.036	170	PASS	BAZ2B	frameshift_variant	Dura AdCa
chr2	162188328	ATGAAA	A	0.078	156	PASS	FAP	stop_gained&frameshift_variant	Dura AdCa
chr2	163611058	T	C	0.508	340	PASS	FIGN	synonymous_variant	Dura AdCa
chr2	165154626	TTCTTGG	T	0.079	109	PASS	SCN3A	stop_gained&frameshift_variant	Dura AdCa
chr2	165595000	C	G	0.073	75	PASS	CSRNP3	intron_variant	Dura AdCa
chr2	167247053	GCCCTG	G	0.059	146	PASS	XIRP2	stop_gained&frameshift_variant	Dura AdCa
chr2	169067149	C	G	0.049	126	PASS	DHRS9	upstream_gene_variant	Dura AdCa
chr2	169906040	T	TA	0.039	155	PASS	UBR3	frameshift_variant	Dura AdCa
chr2	178557542	A	T	0.035	200	PASS	TTN	synonymous_variant	Dura AdCa
chr2	178704131	A	ATAGTG	0.018	188	PASS	TTN	splice_donor_variant&splice_donor_5th_base_variant&	Dura AdCa
chr2	178706595	A	T	0.027	180	PASS	TTN	missense_variant	Dura AdCa
chr2	179446806	AAGGCC	A	0.033	124	PASS	ZNF385B	intron_variant	Dura AdCa
chr2	182838511	T	C	0.836	87	PASS	FRZB	missense_variant	Dura AdCa
chr2	189012698	C	T	0.057	103	PASS	COL3A1	3_prime_utr_variant	Dura AdCa
chr2	197615990	AGTTTG	A	0.054	108	PASS	RFTN2	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr2	201492394	A	T	0.073	62	PASS	C2CD6	missense_variant	Dura AdCa
chr2	206444098	A	C	0.389	75	PASS	ADAM23	intron_variant	Dura AdCa
chr2	216113088	GGTGTC	G	0.045	241	PASS	XRCC5	stop_gained&frameshift_variant	Dura AdCa
chr2	218881099	A	C	0.071	68	PASS	WNT10A	missense_variant	Dura AdCa
chr2	223984920	TGATGG	T	0.03	248	PASS	SERPINE2	stop_gained&frameshift_variant	Dura AdCa
chr2	231170703	A	T	0.068	61	PASS	PSMD1	synonymous_variant	Dura AdCa
chr2	232381426	T	C	0.407	296	PASS	ALPP	intron_variant	Dura AdCa
chr2	233457356	CAGGAG	C	0.043	164	PASS	DGKD	intron_variant	Dura AdCa
chr2	239126446	A	G	0.04	146	PASS	HDAC4	intron_variant	Dura AdCa
chr3	10213059	CA	TG	0.481	115	PASS	IRAK2	intron_variant	Dura AdCa
chr3	11017287	G	A	0.583	696	PASS	SLC6A1	missense_variant	Dura AdCa
chr3	12004864	G	C	0.275	157	PASS	SYN2	missense_variant	Dura AdCa
chr3	13503039	A	G	0.347	200	PASS	HDAC11	intron_variant	Dura AdCa
chr3	14158878	C	G	0.559	391	PASS	XPC	synonymous_variant	Dura AdCa
chr3	14178475	T	C	0.613	800	PASS	XPC	missense_variant	Dura AdCa
chr3	27344259	C	G	0.509	165	PASS	NEK10	intron_variant	Dura AdCa
chr3	33218659	T	C	0.394	71	PASS	SUSD5	intron_variant	Dura AdCa
chr3	33400153	G	A	0.392	122	PASS	FBXL2	intron_variant&non_coding_transcript_variant	Dura AdCa
chr3	33842000	A	G	0.38	271	PASS	PDCD6IP	missense_variant	Dura AdCa
chr3	37065953	GTCAAT	G	0.08	84	PASS	LRRFIP2	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr3	37111099	GGCCTC	G	0.093	69	PASS	LRRFIP2	intron_variant	Dura AdCa
chr3	44446632	C	CTTTCCA	0.023	344	PASS	ZNF445	inframe_deletion	Dura AdCa
chr3	46673502	A	G	0.909	142	PASS	ALS2CL	intron_variant	Dura AdCa
chr3	47857472	C	G	0.772	210	PASS	MAP4	missense_variant	Dura AdCa
chr3	48183045	T	A	0.05	80	PASS	CDC25A	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr3	48381707	A	G	0.782	114	PASS	FBXW12	synonymous_variant	Dura AdCa
chr3	49005095	C	A	0.873	297	PASS	P4HTM	intron_variant	Dura AdCa
chr3	50330624	T	C	0.051	373	PASS	RASSF1	missense_variant	Dura AdCa
chr3	57368206	C	T	0.828	100	PASS	DNAH12	synonymous_variant	Dura AdCa
chr3	57377088	G	A	0.871	132	PASS	DNAH12	synonymous_variant	Dura AdCa
chr3	57380252	A	G	0.897	74	PASS	DNAH12	intron_variant	Dura AdCa
chr3	58501333	T	A	0.018	229	PASS	KCTD6	missense_variant	Dura AdCa
chr3	69964963	CCTA	C	0.018	511	PASS	MITF	inframe_insertion	Dura AdCa
chr3	69964966	ACTGAA	A	0.018	520	PASS	MITF	frameshift_variant	Dura AdCa
chr3	77558088	A	C	0.051	151	PASS	ROBO2	missense_variant	Dura AdCa
chr3	88139852	G	A	0.403	263	PASS	ZNF654	missense_variant	Dura AdCa
chr3	101671336	T	C	0.479	254	PASS	ZBTB11	missense_variant	Dura AdCa
chr3	108583144	A	C	0.461	83	PASS	CIP2A	intron_variant	Dura AdCa
chr3	113659042	T	TACAGA	0.017	396	PASS	USF3	inframe_deletion	Dura AdCa
chr3	121460076	T	C	0.025	397	PASS	POLQ	missense_variant	Dura AdCa
chr3	122928646	CATCAC	C	0.041	258	PASS	SEMA5B	intron_variant	Dura AdCa
chr3	122928649	CTTTAAC	C	0.042	249	PASS	SEMA5B	intron_variant	Dura AdCa
chr3	123946748	A	T	0.026	183	PASS	CCDC14	intron_variant	Dura AdCa
chr3	124699935	A	G	0.349	344	PASS	KALRN	missense_variant	Dura AdCa
chr3	128119302	A	T	0.023	176	PASS	RUVBL1	intron_variant	Dura AdCa
chr3	132691283	C	A	0.496	168	PASS	NPHP3	missense_variant	Dura AdCa
chr3	140175914	C	T	0.113	79	PASS	CLSTN2	intron_variant	Dura AdCa
chr3	142371322	TTAGCA	T	0.033	193	PASS	XRN1	stop_gained&inframe_insertion	Dura AdCa
chr3	142686375	AAGAGG	A	0.041	226	PASS	PLS1	stop_gained&frameshift_variant&splice_region_variant	Dura AdCa
chr3	143652386	GTTTAA	G	0.078	103	PASS	SLC9A9	intron_variant	Dura AdCa
chr3	143652389	TAAAGT	T	0.079	100	PASS	SLC9A9	intron_variant	Dura AdCa
chr3	149167981	AAAACA	A	0.061	127	PASS	HPS3	inframe_insertion&splice_region_variant	Dura AdCa
chr3	149167984	GTTATC	G	0.061	123	PASS	HPS3	splice_donor_variant	Dura AdCa
chr3	151350163	TTC	T	0.039	181	PASS	MED12L	frameshift_variant	Dura AdCa
chr3	151445829	A	AGTTTCC	0.028	393	PASS	IGSF10	frameshift_variant	Dura AdCa
chr3	155916098	TGACAC	T	0.024	609	PASS	GMPS	frameshift_variant	Dura AdCa
chr3	155916100	AACAAG	A	0.025	596	PASS	GMPS	stop_gained&frameshift_variant	Dura AdCa
chr3	157442871	AATTTTT	A	0.033	288	PASS	PTX3	stop_gained&frameshift_variant	Dura AdCa

chr3	169822988	TCTACCT	T	0.054	121	PASS	LRRIQ4	intron_variant	Dura	AdCa
chr3	170281992	GCAGTTT	G	0.034	466	PASS	PRKCI	intron_variant	Dura	AdCa
chr3	179973339	G	A	0.485	145	PASS	.	intron_variant&non_coding_transcript_variant	Dura	AdCa
chr3	183341475	C	T	0.096	72	PASS	MCF2L2	intron_variant	Dura	AdCa
chr3	184038505	C	T	0.18	395	PASS	HTR3D	missense_variant	Dura	AdCa
chr3	184038509	C	T	0.183	397	PASS	HTR3D	synonymous_variant	Dura	AdCa
chr3	195226778	CACCATT	C	0.031	390	PASS	XXYLT1	inframe_insertion	Dura	AdCa
chr3	195226782	AAACAA	A	0.031	385	PASS	XXYLT1	stop_gained&protein_altering_variant	Dura	AdCa
chr3	195618957	GA	AG	0.51	272	PASS	MUC20P1	non_coding_transcript_exon_variant	Dura	AdCa
chr3	195780850	G	A	0.036	268	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195782362	A	AGCGGG	0.09	794	PASS	MUC4	inframe_deletion	Dura	AdCa
chr3	195782376	A	ACCGGT	0.058	1184	PASS	MUC4	inframe_deletion	Dura	AdCa
chr3	195782572	G	A	0.13	573	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195783262	TTGGTG	T	0.345	977	PASS	MUC4	inframe_insertion	Dura	AdCa
chr3	195784172	C	T	0.186	1644	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195785416	A	G	0.306	1278	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195786727	A	G	0.212	1507	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195787453	A	G	0.784	84	PASS	MUC4	missense_variant	Dura	AdCa
chr3	195787461	G	C	0.16	94	PASS	MUC4	missense_variant	Dura	AdCa
chr3	196270466	A	G	0.519	350	PASS	PCYT1A	synonymous_variant	Dura	AdCa
chr4	373193	G	A	0.053	100	PASS	ZNF141	synonymous_variant	Dura	AdCa
chr4	373202	C	T	0.052	100	PASS	ZNF141	synonymous_variant	Dura	AdCa
chr4	2251199	A	C	0.454	216	PASS	MXD4	synonymous_variant	Dura	AdCa
chr4	2328999	T	C	0.07	56	PASS	ZFYVE28	intron_variant	Dura	AdCa
chr4	6026261	C	CAAAAA	0.028	104	PASS	C4orf50	splice_acceptor_variant&5_prime_utr_variant&intron_v	Dura	AdCa
chr4	7014459	T	TTTTGCT	0.046	102	PASS	TBC1D14	inframe_deletion	Dura	AdCa
chr4	9230471	A	C	0.048	1380	PASS	.	intron_variant&non_coding_transcript_variant	Dura	AdCa
chr4	9230473	C	T	0.049	1354	PASS	.	intron_variant&non_coding_transcript_variant	Dura	AdCa
chr4	9248548	A	G	0.06	431	PASS	.	intron_variant&non_coding_transcript_variant	Dura	AdCa
chr4	9268697	T	C	0.115	61	PASS	USP17L22	missense_variant	Dura	AdCa
chr4	9368706	C	T	0.037	208	PASS	.	intron_variant&non_coding_transcript_variant	Dura	AdCa
chr4	15723507	C	T	0.06	79	PASS	BST1	intron_variant	Dura	AdCa
chr4	16186869	C	G	0.46	86	PASS	TAPT1	missense_variant	Dura	AdCa
chr4	25026839	T	TCAGCA	0.033	148	PASS	LGI2	splice_donor_variant&splice_donor_5th_base_variant&i	Dura	AdCa
chr4	26482222	A	G	0.065	63	PASS	CCKAR	intron_variant	Dura	AdCa
chr4	30927343	T	C	0.098	59	PASS	PCDH7	intron_variant	Dura	AdCa
chr4	37445904	AAGCGT	A	0.053	252	PASS	NWD2	frameshift_variant	Dura	AdCa
chr4	37445906	CGTTGTC	C	0.053	254	PASS	NWD2	stop_gained&inframe_insertion	Dura	AdCa
chr4	37847210	ATGCTTC	A	0.023	256	PASS	PGM2	frameshift_variant	Dura	AdCa
chr4	38915120	A	G	0.058	99	PASS	FAM114A1	intron_variant	Dura	AdCa
chr4	41620613	TAGGAA	T	0.022	406	PASS	LIMCH1	inframe_insertion	Dura	AdCa
chr4	54258827	CACCAC	C	0.032	369	PASS	PDGFRA	intron_variant	Dura	AdCa
chr4	54274958	GCTGCC	G	0.04	537	PASS	PDGFRA	stop_gained&protein_altering_variant	Dura	AdCa
chr4	54278315	A	T	0.029	146	PASS	PDGFRA	intron_variant	Dura	AdCa
chr4	69489690	C	G	0.108	52	PASS	UGT2B4	intron_variant	Dura	AdCa
chr4	69647410	C	CAAAGG	0.021	321	PASS	UGT2A1	frameshift_variant	Dura	AdCa
chr4	70637844	T	G	0.464	176	PASS	.	splice_donor_variant&non_coding_transcript_variant	Dura	AdCa
chr4	71453479	C	CATTCTC	0.023	226	PASS	SLC4A4	splice_acceptor_variant&coding_sequence_variant&intr	Dura	AdCa
chr4	71453674	T	G	0.035	129	PASS	SLC4A4	splice_donor_5th_base_variant&intron_variant	Dura	AdCa
chr4	73142187	T	A	0.085	67	PASS	ANKRD17	intron_variant	Dura	AdCa
chr4	74038340	A	T	0.395	424	PASS	CXCL3	missense_variant	Dura	AdCa
chr4	74241562	A	T	0.046	134	PASS	MTHFD2L	intron_variant	Dura	AdCa
chr4	76740701	T	A	0.438	385	PASS	SHROOM3	missense_variant	Dura	AdCa
chr4	78363508	T	TCCAGA	0.015	326	PASS	FRAS1	splice_acceptor_variant&coding_sequence_variant&intr	Dura	AdCa
chr4	82456885	G	T	0.092	65	PASS	ENOPH1	intron_variant	Dura	AdCa
chr4	83462706	GATTAT	G	0.024	474	PASS	ABRAXAS1	stop_gained&frameshift_variant	Dura	AdCa
chr4	84766363	TATGAG	T	0.059	131	PASS	WDFY3	frameshift_variant	Dura	AdCa
chr4	86735605	C	G	0.034	130	PASS	PTPN13	synonymous_variant	Dura	AdCa
chr4	88486193	T	G	0.04	239	PASS	HERC5	stop_gained	Dura	AdCa
chr4	105940249	ATTTTTA	A	0.075	176	PASS	NPNT	intron_variant	Dura	AdCa
chr4	105940251	AAAGTA	A	0.075	174	PASS	NPNT	intron_variant	Dura	AdCa
chr4	106924081	CTCCAC	C	0.028	320	PASS	DKK2	frameshift_variant	Dura	AdCa
chr4	106924082	GTTACTT	G	0.029	318	PASS	DKK2	stop_gained&frameshift_variant	Dura	AdCa
chr4	109851805	T	A	0.015	394	PASS	LRIT3	stop_gained	Dura	AdCa
chr4	113509558	G	C	0.049	122	PASS	CAMK2D	intron_variant	Dura	AdCa
chr4	125317555	A	G	0.088	600	PASS	FAT4	missense_variant	Dura	AdCa
chr4	125434296	C	T	0.436	122	PASS	FAT4	missense_variant	Dura	AdCa
chr4	138219325	AATGAG	A	0.046	199	PASS	SLC7A11	frameshift_variant	Dura	AdCa
chr4	150928642	A	T	0.388	81	PASS	LRBA	intron_variant	Dura	AdCa
chr4	155710866	T	C	0.521	212	PASS	GUCY1A1	missense_variant	Dura	AdCa
chr4	158682445	G	T	0.06	83	PASS	ETFDH	intron_variant	Dura	AdCa
chr4	159347013	TATAAA	T	0.046	149	PASS	RAPGEF2	intron_variant	Dura	AdCa
chr4	159347017	TACCATT	T	0.046	143	PASS	RAPGEF2	intron_variant	Dura	AdCa
chr4	162111279	A	G	0.042	142	PASS	FSTL5	stop_gained	Dura	AdCa
chr4	165224001	A	G	0.15	243	PASS	KLHL2	intron_variant	Dura	AdCa
chr4	165487532	CATTGTA	C	0.048	136	PASS	CPE	stop_gained&frameshift_variant	Dura	AdCa
chr4	165487535	CCTGCTC	C	0.049	127	PASS	CPE	frameshift_variant	Dura	AdCa
chr4	173374079	A	G	0.087	62	PASS	SAP30	intron_variant	Dura	AdCa
chr4	174977785	G	GTGATG	0.011	1285	PASS	ADAM29	stop_lost&3_prime_utr_variant	Dura	AdCa
chr4	177440439	TGCTGTC	T	0.052	127	PASS	AGA	splice_polypyrimidine_tract_variant&intron_variant	Dura	AdCa
chr4	182731123	C	T	0.073	56	PASS	TENM3	missense_variant	Dura	AdCa
chr4	183694013	C	T	0.139	130	PASS	TRAPPC11	missense_variant	Dura	AdCa
chr4	185405762	T	G	0.139	57	PASS	UFSP2	intron_variant	Dura	AdCa
chr4	185471082	T	C	0.306	55	PASS	CCDC110	intron_variant	Dura	AdCa
chr4	186238251	C	T	0.152	62	PASS	KLKB1	splice_region_variant&splice_polypyrimidine_tract_vari	Dura	AdCa
chr4	186598131	TGCAGTC	T	0.056	138	PASS	FAT1	splice_region_variant&splice_polypyrimidine_tract_vari	Dura	AdCa

chr4	186618709	T	C	0.031	242	PASS	FAT1	missense_variant	Dura AdCa
chr5	205756	A	AGAGAT/	0.012	416	PASS	CCDC127	inframe_deletion	Dura AdCa
chr5	878575	T	C	0.233	297	PASS	BRD9	intron_variant	Dura AdCa
chr5	1432496	G	A	0.488	218	PASS	SLC6A3	synonymous_variant	Dura AdCa
chr5	32780689	G	C	0.49	225	PASS	NPR3	intron_variant	Dura AdCa
chr5	34811682	T	TTCTCTT	0.029	212	PASS	RAI14	intron_variant	Dura AdCa
chr5	37020455	G	C	0.067	85	PASS	NIPBL	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr5	57214174	A	C	0.852	164	PASS	GPBP1	missense_variant	Dura AdCa
chr5	61332326	GGGC	G	0.474	162	PASS	ZSWIM6	inframe_insertion	Dura AdCa
chr5	62580946	T	C	0.35	167	PASS	LRRC70	missense_variant	Dura AdCa
chr5	68293766	A	AACACTC	0.025	441	PASS	PIK3R1	splice_donor_variant&splice_donor_5th_base_variant&c	Dura AdCa
chr5	75620372	TCCCCCC	T	0.069	134	PASS	ANKDD1B	stop_gained&frameshift_variant	Dura AdCa
chr5	79512870	T	C	0.04	54	PASS	HOMER1	5_prime_utr_variant	Dura AdCa
chr5	79512873	T	C	0.042	52	PASS	HOMER1	5_prime_utr_variant	Dura AdCa
chr5	87333374	AGCTCC/	A	0.09	219	PASS	CCNH	intron_variant&nmd_transcript_variant	Dura AdCa
chr5	87333377	ACAAATC	A	0.09	217	PASS	RASA1	intron_variant	Dura AdCa
chr5	90619073	A	G	0.068	67	PASS	ADGRV1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr5	96793534	ACTTTCT	A	0.098	68	PASS	ERAP1	intron_variant	Dura AdCa
chr5	98779727	A	C	0.018	401	PASS	RGMB	missense_variant	Dura AdCa
chr5	100895796	AAGTTTA	A	0.057	77	PASS	ST8SIA4	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr5	103129686	C	G	0.058	110	PASS	PPIP5K2	missense_variant	Dura AdCa
chr5	111092331	T	C	0.116	250	PASS	WDR36	upstream_gene_variant	Dura AdCa
chr5	112839132	AATTTGT	A	0.051	273	PASS	APC	frameshift_variant	Dura AdCa
chr5	122151988	A	T	0.052	85	PASS	ZNF474	5_prime_utr_variant	Dura AdCa
chr5	128519394	CTCT	C	0.095	60	PASS	FBN2	intron_variant	Dura AdCa
chr5	128519395	AATAAG/	A	0.098	58	PASS	FBN2	intron_variant	Dura AdCa
chr5	138166713	AGGCTG	A	0.072	69	PASS	BRD8	frameshift_variant	Dura AdCa
chr5	138166714	AGAGAG	A	0.072	69	PASS	BRD8	frameshift_variant	Dura AdCa
chr5	138917803	C	T	0.025	252	PASS	CTNNA1	missense_variant	Dura AdCa
chr5	140648249	G	A	0.137	136	PASS	IK	intron_variant	Dura AdCa
chr5	141331788	G	T	0.043	97	PASS	PCDHGA1	synonymous_variant	Dura AdCa
chr5	143300607	A	T	0.029	157	PASS	NR3C1	missense_variant	Dura AdCa
chr5	150238651	GAGCAC(	G	0.044	170	PASS	CAMK2A	intron_variant	Dura AdCa
chr5	159174135	A	G	0.521	217	PASS	RNF145	synonymous_variant	Dura AdCa
chr5	172968611	T	G	0.377	296	PASS	RPL26L1	intron_variant	Dura AdCa
chr5	175926725	C	T	0.05	185	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr5	175959996	T	C	0.152	421	PASS	THOC3	synonymous_variant	Dura AdCa
chr5	177672139	A	T	0.228	229	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr5	178147850	A	G	0.409	417	PASS	RMND5B	missense_variant	Dura AdCa
chr5	179076409	T	G	0.434	359	PASS	ZNF354C	intron_variant	Dura AdCa
chr6	147522	A	G	0.241	96	PASS	SEPTIN14P6	upstream_gene_variant	Dura AdCa
chr6	4125973	T	C	0.487	106	PASS	ECI2	intron_variant	Dura AdCa
chr6	4996429	A	C	0.439	75	PASS	RPP40	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr6	8080065	ACACATT	A	0.057	95	PASS	EEF1E1	intron_variant	Dura AdCa
chr6	10586221	C	CTGACC(	0.014	361	PASS	GCNT2	intron_variant	Dura AdCa
chr6	10874944	GCCACC(	G	0.033	180	PASS	GCM2	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr6	24405209	T	A	0.027	242	PASS	MRS2	missense_variant	Dura AdCa
chr6	25777988	T	C	0.413	127	PASS	SLC17A4	missense_variant	Dura AdCa
chr6	30703938	A	T	0.01	733	PASS	MDC1	stop_gained	Dura AdCa
chr6	30704388	A	ACCTAG1	0.034	1985	PASS	MDC1	inframe_deletion	Dura AdCa
chr6	30704511	CCCTAG1	C	0.027	1161	PASS	MDC1	inframe_insertion	Dura AdCa
chr6	30704520	C	CCCGAG/	0.012	2030	PASS	MDC1	inframe_deletion	Dura AdCa
chr6	30705205	C	G	0.012	906	PASS	MDC1	synonymous_variant	Dura AdCa
chr6	30705308	C	CGGAGC	0.01	1820	PASS	MDC1	inframe_deletion	Dura AdCa
chr6	30705328	C	CACAAC	0.025	1944	PASS	MDC1	inframe_deletion	Dura AdCa
chr6	30986772	C	G	0.012	686	PASS	MUC21	missense_variant	Dura AdCa
chr6	31010791	ATTCTTA	A	0.085	133	PASS	MUC22	intron_variant	Dura AdCa
chr6	31202450	GC	AG	0.505	308	PASS	HCG27	non_coding_transcript_exon_variant	Dura AdCa
chr6	31622954	A	G	0.064	81	PASS	PRRC2A	intron_variant	Dura AdCa
chr6	31632919	A	G	0.536	197	PASS	PRRC2A	missense_variant	Dura AdCa
chr6	31688737	T	C	0.55	244	PASS	ABHD16A	synonymous_variant	Dura AdCa
chr6	31810526	T	C	0.02	346	PASS	HSPA1L	missense_variant	Dura AdCa
chr6	32011008	T	C	0.056	312	PASS	TNXA	non_coding_transcript_exon_variant	Dura AdCa
chr6	32027420	T	C	0.045	135	PASS	C4B	missense_variant	Dura AdCa
chr6	32029823	G	C	0.475	549	PASS	C4B	intron_variant	Dura AdCa
chr6	32223104	A	G	0.479	218	PASS	NOTCH4	intron_variant	Dura AdCa
chr6	32554821	G	A	0.225	465	PASS	HLA-DRB6	non_coding_transcript_exon_variant	Dura AdCa
chr6	32554826	C	G	0.222	470	PASS	HLA-DRB6	non_coding_transcript_exon_variant	Dura AdCa
chr6	32746281	G	T	0.038	676	PASS	HLA-DQA2	missense_variant	Dura AdCa
chr6	32746314	G	A	0.035	635	PASS	HLA-DQA2	missense_variant	Dura AdCa
chr6	34417760	A	G	0.446	118	PASS	RPS10	intron_variant	Dura AdCa
chr6	35872740	TTAGGA/	T	0.047	145	PASS	SRPK1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr6	39714659	A	C	0.038	81	PASS	KIF6	intron_variant	Dura AdCa
chr6	39714663	A	C	0.037	83	PASS	KIF6	intron_variant	Dura AdCa
chr6	41780279	G	GGGAGG	0.014	301	PASS	FRS3	upstream_gene_variant	Dura AdCa
chr6	41780315	G	GGGGGA	0.012	412	PASS	PRICKLE4	upstream_gene_variant	Dura AdCa
chr6	43188137	A	G	0.03	175	PASS	CUL9	intron_variant	Dura AdCa
chr6	46799256	CTAAAC1	C	0.108	52	PASS	MEP1A	intron_variant	Dura AdCa
chr6	47879234	A	T	0.541	170	PASS	PTCHD4	missense_variant	Dura AdCa
chr6	52069577	A	G	0.035	134	PASS	PKHD1	intron_variant	Dura AdCa
chr6	63685295	A	G	0.469	161	PASS	PHF3	missense_variant	Dura AdCa
chr6	70755016	T	C	0.728	71	PASS	SMAP1	missense_variant	Dura AdCa
chr6	75695845	A	G	0.111	113	PASS	SENP6	missense_variant	Dura AdCa
chr6	83607670	C	A	0.04	74	PASS	SNAP91	intron_variant	Dura AdCa
chr6	89661496	C	T	0.884	135	PASS	MDN1	missense_variant	Dura AdCa
chr6	97064696	C	T	0.091	105	PASS	KLHL32	synonymous_variant	Dura AdCa

chr6	106975088	A	G	0.114	65	PASS	CD24	upstream_gene_variant	Dura AdCa
chr6	107707976	A	G	0.139	206	PASS	SCML4	missense_variant	Dura AdCa
chr6	110621142	T	C	0.045	209	PASS	CDK19	missense_variant	Dura AdCa
chr6	116121523	T	C	0.084	136	PASS	COL10A1	missense_variant	Dura AdCa
chr6	116558149	GTGATG(	G	0.128	118	PASS	CALHM4	stop_gained&frameshift_variant	Dura AdCa
chr6	117519881	T	C	0.857	97	PASS	DCBLD1	missense_variant	Dura AdCa
chr6	118911780	A	G	0.073	55	PASS	MCM9	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr6	125889651	A	G	0.886	72	PASS	NCOA7	missense_variant	Dura AdCa
chr6	129154520	A	G	0.051	117	PASS	LAMA2	missense_variant	Dura AdCa
chr6	142133970	A	G	0.463	155	PASS	GJE1	missense_variant	Dura AdCa
chr6	149718012	A	G	0.465	305	PASS	LATS1	5_prime_utr_variant	Dura AdCa
chr6	149718157	C	T	0.479	291	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr6	149718225	G	C	0.488	277	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr6	160043250	CCCGGG	C	0.039	220	PASS	IGF2R	frameshift_variant	Dura AdCa
chr6	160043253	GGTGAA(	G	0.039	220	PASS	IGF2R	stop_gained&frameshift_variant	Dura AdCa
chr6	167172375	A	G	0.032	137	PASS	TCP10L2	intron_variant&non_coding_transcript_variant	Dura AdCa
chr6	167911223	A	ATTTTCA	0.013	466	PASS	AFDN	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr6	169667944	A	G	0.436	357	PASS	WDR27	intron_variant	Dura AdCa
chr7	726577	GACGAT	G	0.154	90	PASS	PRKAR1B	intron_variant	Dura AdCa
chr7	726583	G	A	0.137	99	PASS	PRKAR1B	intron_variant	Dura AdCa
chr7	2572660	AA	TC	0.816	53	PASS	IQCE	intron_variant	Dura AdCa
chr7	30686470	C	T	0.051	88	PASS	CRHR2	upstream_gene_variant	Dura AdCa
chr7	32559175	AA	CC	0.043	62	PASS	AVL9	missense_variant	Dura AdCa
chr7	32559180	C	G	0.042	62	PASS	AVL9	missense_variant	Dura AdCa
chr7	37225044	C	T	0.811	123	PASS	ELMO1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr7	44007301	A	G	0.75	232	PASS	SPDYE1	synonymous_variant	Dura AdCa
chr7	50368279	GGGATA	G	0.071	82	PASS	IKZF1	intron_variant	Dura AdCa
chr7	55939499	T	G	0.109	78	PASS	ZNF713	missense_variant	Dura AdCa
chr7	57132116	T	C	0.776	112	PASS	ZNF479	intron_variant	Dura AdCa
chr7	64979541	A	AAGAAA	0.092	72	PASS	ZNF117	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr7	73328589	A	G	0.914	50	PASS	FKBP6	synonymous_variant	Dura AdCa
chr7	73447351	G	C	0.036	87	PASS	BAZ1B	missense_variant	Dura AdCa
chr7	77953963	G	C	0.885	70	PASS	PHTF2	intron_variant	Dura AdCa
chr7	78521465	GACCAG	G	0.034	237	PASS	MAGI2	stop_gained&frameshift_variant	Dura AdCa
chr7	83135238	GTTGTTT	G	0.039	251	PASS	PCLO	stop_gained&frameshift_variant	Dura AdCa
chr7	92307486	G	C	0.035	175	PASS	ANKIB1	missense_variant	Dura AdCa
chr7	92307491	AATTAG(	A	0.036	174	PASS	ANKIB1	stop_gained&inframe_insertion	Dura AdCa
chr7	100682882	T	C	0.846	88	PASS	GIGYF1	intron_variant	Dura AdCa
chr7	100952147	TG	CA	0.44	520	PASS	MUC3A	missense_variant	Dura AdCa
chr7	100952493	G	A	0.331	203	PASS	MUC3A	synonymous_variant	Dura AdCa
chr7	100952498	T	C	0.349	200	PASS	MUC3A	missense_variant	Dura AdCa
chr7	103319617	G	C	0.031	151	PASS	DNAJC2	missense_variant	Dura AdCa
chr7	108079749	AGTTCTT	A	0.073	137	PASS	LAMB4	stop_gained&protein_altering_variant	Dura AdCa
chr7	111846967	A	G	0.935	66	PASS	DOCK4	intron_variant	Dura AdCa
chr7	127699019	A	T	0.081	54	PASS	SND1	intron_variant	Dura AdCa
chr7	128880045	A	C	0.087	203	PASS	KCP	missense_variant	Dura AdCa
chr7	130129605	C	T	0.117	137	PASS	KLHDC10	intron_variant	Dura AdCa
chr7	130550642	T	C	0.11	101	PASS	COPG2	synonymous_variant	Dura AdCa
chr7	131445908	GAGGAA(	G	0.051	146	PASS	MKLN1	splice_donor_region_variant&intron_variant	Dura AdCa
chr7	134450935	T	C	0.032	191	PASS	AKR1B1	intron_variant	Dura AdCa
chr7	139341370	G	GAGA	0.018	343	PASS	FMC1	5_prime_utr_variant	Dura AdCa
chr7	142022437	A	G	0.055	90	PASS	MGAM	missense_variant&splice_region_variant	Dura AdCa
chr7	142345971	C	T	0.59	385	PASS	TRBV4-2	synonymous_variant	Dura AdCa
chr7	142451194	CA	GG	0.169	237	PASS	TRBV6-5	missense_variant	Dura AdCa
chr7	142463547	G	C	0.325	243	PASS	TRBV5-4	missense_variant	Dura AdCa
chr7	142564042	T	C	0.903	191	PASS	TRBV12-4	synonymous_variant	Dura AdCa
chr7	142588240	A	G	0.908	104	PASS	TRBV14	synonymous_variant	Dura AdCa
chr7	142598094	T	C	0.868	142	PASS	TRBV16	intron_variant	Dura AdCa
chr7	142774511	T	C	0.348	295	PASS	PRSS2	3_prime_utr_variant	Dura AdCa
chr7	142774515	CA	TG	0.353	286	PASS	PRSS2	3_prime_utr_variant	Dura AdCa
chr7	142791704	A	C	0.115	314	PASS	TRBC1	missense_variant	Dura AdCa
chr7	142791707	C	G	0.116	312	PASS	TRBC1	missense_variant	Dura AdCa
chr7	142791866	A	G	0.23	425	PASS	TRBC1	synonymous_variant	Dura AdCa
chr7	149005223	A	G	0.064	171	PASS	PDIA4	synonymous_variant	Dura AdCa
chr7	152252528	A	G	0.922	198	PASS	KMT2C	intron_variant	Dura AdCa
chr7	158759980	T	A	0.048	58	PASS	ESYT2	intron_variant	Dura AdCa
chr7	159031917	T	C	0.881	227	PASS	VIPR2	intron_variant	Dura AdCa
chr8	1680556	AT	GA	0.128	111	PASS	DLGAP2	intron_variant	Dura AdCa
chr8	7359734	T	G	0.54	62	PASS	ZNF705G	intron_variant	Dura AdCa
chr8	7541016	G	C	0.379	168	PASS	PRR23D1	synonymous_variant	Dura AdCa
chr8	11284101	T	G	0.033	131	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr8	18872551	G	C	0.086	190	PASS	PSD3	missense_variant	Dura AdCa
chr8	21750758	A	G	0.024	331	PASS	GFRA2	synonymous_variant	Dura AdCa
chr8	22227651	T	C	0.816	86	PASS	PHYHIP	intron_variant	Dura AdCa
chr8	23449922	CCTATTT	C	0.092	135	PASS	ENTPD4	5_prime_utr_variant	Dura AdCa
chr8	23449924	ACTAGT	A	0.092	135	PASS	ENTPD4	5_prime_utr_variant	Dura AdCa
chr8	24917240	TTGA	T	0.099	54	PASS	NEFM	inframe_insertion	Dura AdCa
chr8	26363765	C	G	0.017	287	PASS	PPP2R2A	missense_variant	Dura AdCa
chr8	30838036	G	C	0.048	97	PASS	TEX15	missense_variant	Dura AdCa
chr8	33511942	A	G	0.875	62	PASS	TTI2	intron_variant	Dura AdCa
chr8	38264413	G	A	0.025	106	PASS	PLPP5	3_prime_utr_variant	Dura AdCa
chr8	38264423	G	A	0.022	123	PASS	PLPP5	3_prime_utr_variant	Dura AdCa
chr8	39071313	G	C	0.042	216	PASS	ADAM9	missense_variant	Dura AdCa
chr8	41978582	C	CTACAC	0.014	486	PASS	KAT6A	splice_donor_5th_base_variant&intron_variant	Dura AdCa
chr8	52940004	T	C	0.465	373	PASS	NPBWR1	missense_variant	Dura AdCa
chr8	54055194	TCCTTTT	T	0.136	91	PASS	LYPLA1	intron_variant	Dura AdCa

chr8	66665153	G	C	0.022	352	PASS	VCPIP1	synonymous_variant	Dura AdCa
chr8	68815981	GCTAGTC	G	0.054	139	PASS	C8orf34	intron_variant	Dura AdCa
chr8	81694301	AGGTATC	A	0.026	276	PASS	SLC10A5	stop_gained&frameshift_variant	Dura AdCa
chr8	85473391	AAGATTC	A	0.051	147	PASS	CA2	intron_variant	Dura AdCa
chr8	88116494	G	C	0.023	163	PASS	MMP16	intron_variant	Dura AdCa
chr8	93797378	ATGTGTT	A	0.027	529	PASS	TMEM67	stop_gained&protein_altering_variant	Dura AdCa
chr8	93797379	CAAAGAC	C	0.027	526	PASS	TMEM67	inframe_insertion	Dura AdCa
chr8	103921828	A	AGTGTTT	0.03	144	PASS	RIMS2	intron_variant	Dura AdCa
chr8	124998624	A	G	0.334	336	PASS	SQLE	5_prime_utr_variant	Dura AdCa
chr8	131946634	C	G	0.667	183	PASS	EFR3A	splice_donor_variant	Dura AdCa
chr8	143606178	T	G	0.769	213	PASS	PYCR3	intron_variant	Dura AdCa
chr8	143858206	A	G	0.265	425	PASS	EPPK1	synonymous_variant	Dura AdCa
chr8	143865354	G	GGGC	0.975	58	PASS	EPPK1	inframe_deletion	Dura AdCa
chr8	143928985	G	C	0.039	62	PASS	PLEC	intron_variant	Dura AdCa
chr8	144057755	A	G	0.029	172	PASS	OPLAH	intron_variant	Dura AdCa
chr8	144264608	A	G	0.319	576	PASS	BOP1	synonymous_variant	Dura AdCa
chr8	144318358	A	G	0.34	512	PASS	DGAT1	synonymous_variant	Dura AdCa
chr8	144391547	C	A	0.308	270	PASS	ADCK5	intron_variant	Dura AdCa
chr8	144426161	T	G	0.346	283	PASS	VPS28	intron_variant	Dura AdCa
chr8	144513765	G	T	0.077	277	PASS	RECQL4	intron_variant	Dura AdCa
chr8	144931491	A	G	0.368	346	PASS	ZNF16	synonymous_variant	Dura AdCa
chr9	5522632	AAACAG(	A	0.046	154	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr9	7011765	T	C	0.339	127	PASS	KDM4C	synonymous_variant	Dura AdCa
chr9	8389333	A	G	0.038	261	PASS	PTPRD	stop_gained	Dura AdCa
chr9	8484244	CAACTG(	C	0.05	115	PASS	PTPRD	stop_gained&protein_altering_variant	Dura AdCa
chr9	22451048	C	T	0.446	69	PASS	DMRTA1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr9	27190589	T	TCAACA1	0.017	434	PASS	TEK	frameshift_variant	Dura AdCa
chr9	35842535	A	G	0.079	250	PASS	TMEM8B	missense_variant	Dura AdCa
chr9	41926631	A	T	0.035	86	PASS	CNTNAP3B	intron_variant	Dura AdCa
chr9	78031131	A	G	0.017	557	PASS	GNAQ	synonymous_variant	Dura AdCa
chr9	78241618	G	GAAGAG	0.021	237	PASS	CEP78	splice_acceptor_variant&coding_sequence_variant&intr	Dura AdCa
chr9	78308346	T	G	0.051	92	PASS	PSAT1	intron_variant	Dura AdCa
chr9	78317564	A	C	0.34	64	PASS	PSAT1	intron_variant	Dura AdCa
chr9	78317567	T	A	0.34	64	PASS	PSAT1	intron_variant	Dura AdCa
chr9	81992641	C	T	0.453	219	PASS	SPATA31D1	missense_variant	Dura AdCa
chr9	82058619	CA	GC	0.264	407	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr9	86007425	A	C	0.019	310	PASS	NAA35	missense_variant	Dura AdCa
chr9	97366728	GTTCCAT	G	0.038	220	PASS	CCDC180	intron_variant	Dura AdCa
chr9	97366729	GGTCAA/	G	0.038	217	PASS	CCDC180	intron_variant	Dura AdCa
chr9	97460787	TTCTTC	T	0.046	168	PASS	TDRD7	intron_variant	Dura AdCa
chr9	97460789	ACCTGC/	A	0.046	168	PASS	TDRD7	intron_variant	Dura AdCa
chr9	99227934	A	G	0.014	475	PASS	SEC61B	missense_variant	Dura AdCa
chr9	101317635	CTACTAA	C	0.1	56	PASS	PLPPR1	intron_variant	Dura AdCa
chr9	104617172	G	A	0.573	113	PASS	OR13C9	downstream_gene_variant	Dura AdCa
chr9	111722532	TCCATTT	T	0.03	266	PASS	SHOC1	stop_gained&frameshift_variant	Dura AdCa
chr9	123010502	CAAGGT1	C	0.037	167	PASS	RABGAP1	stop_gained&frameshift_variant	Dura AdCa
chr9	125559714	TTTTCC	T	0.029	272	PASS	MAPKAP1	frameshift_variant	Dura AdCa
chr9	125559717	TAAAGG(	T	0.029	264	PASS	MAPKAP1	frameshift_variant	Dura AdCa
chr9	125929787	CAAGAA'	C	0.063	244	PASS	PBX3	stop_gained&frameshift_variant	Dura AdCa
chr9	125929790	AGACGT(	A	0.064	237	PASS	PBX3	frameshift_variant	Dura AdCa
chr9	127738860	A	G	0.525	405	PASS	SH2D3C	synonymous_variant	Dura AdCa
chr9	128970940	TTCCTCT	T	0.044	203	PASS	NUP188	frameshift_variant	Dura AdCa
chr9	128970942	CTCCTTA	C	0.044	195	PASS	NUP188	stop_gained&inframe_insertion	Dura AdCa
chr9	128998146	C	T	0.514	330	PASS	NUP188	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr9	130319410	G	A	0.989	131	PASS	HMCN2	intron_variant	Dura AdCa
chr9	130319644	A	G	0.466	275	PASS	HMCN2	missense_variant	Dura AdCa
chr9	130321760	G	A	0.359	190	PASS	HMCN2	intron_variant	Dura AdCa
chr9	130327557	C	T	0.636	168	PASS	HMCN2	intron_variant	Dura AdCa
chr9	130338375	G	A	0.555	275	PASS	HMCN2	intron_variant	Dura AdCa
chr9	130338512	G	A	0.582	238	PASS	HMCN2	intron_variant	Dura AdCa
chr9	130612602	T	A	0.078	97	PASS	FUBP3	intron_variant	Dura AdCa
chr9	136250842	A	C	0.026	361	PASS	CCDC187	3_prime_utr_variant	Dura AdCa
chr9	136290477	G	A	0.987	117	PASS	CCDC187	intron_variant	Dura AdCa
chr9	136291438	T	C	0.6	252	PASS	CCDC187	missense_variant	Dura AdCa
chr9	136459582	T	C	0.664	256	PASS	SEC16A	intron_variant	Dura AdCa
chr9	136740862	C	T	0.531	326	PASS	LCN10	missense_variant	Dura AdCa
chr9	136863311	T	G	0.039	139	PASS	EDF1	missense_variant	Dura AdCa
chr9	137031182	T	C	0.296	418	PASS	FUT7	missense_variant	Dura AdCa
chr9	137064633	T	C	0.376	356	PASS	SAPCD2	3_prime_utr_variant	Dura AdCa
chr9	137213879	A	G	0.362	349	PASS	NDOR1	splice_donor_variant	Dura AdCa
chr9	137220533	T	C	0.34	455	PASS	RNF208	stop_gained	Dura AdCa
chr9	137877982	A	G	0.191	122	PASS	CACNA1B	missense_variant	Dura AdCa
chr9	137877990	A	G	0.223	146	PASS	CACNA1B	synonymous_variant	Dura AdCa
chr10	5132650	A	C	0.4	152	PASS	AKR1C5P	non_coding_transcript_exon_variant	Dura AdCa
chr10	12117710	A	C	0.452	150	PASS	DHTKD1	missense_variant	Dura AdCa
chr10	15103534	A	AAAGAA.	0.02	279	PASS	RPP38	frameshift_variant	Dura AdCa
chr10	19327707	A	T	0.55	81	PASS	MALRD1	intron_variant	Dura AdCa
chr10	25598926	G	A	0.43	218	PASS	GPR158	synonymous_variant	Dura AdCa
chr10	28534306	T	G	0.038	189	PASS	WAC	intron_variant	Dura AdCa
chr10	31908696	G	T	0.434	252	PASS	ARHGAP12	missense_variant	Dura AdCa
chr10	43077384	A	G	0.093	245	PASS	RET	intron_variant	Dura AdCa
chr10	43086608	C	T	0.082	93	PASS	RET	intron_variant	Dura AdCa
chr10	43112909	CTCCAG1	C	0.021	368	PASS	RET	stop_gained&frameshift_variant	Dura AdCa
chr10	43386718	C	G	0.04	215	PASS	HNRNPF	stop_gained	Dura AdCa
chr10	45303617	TA	T	0.87	166	PASS	OR13A1	frameshift_variant	Dura AdCa
chr10	45463744	T	C	0.131	181	PASS	MARCHF8	synonymous_variant	Dura AdCa

chr10	47367976	T	C	0.859	228	PASS	ZNF488	missense_variant	Dura AdCa
chr10	47762988	A	G	0.17	54	PASS	SYT15B	5_prime_utr_variant	Dura AdCa
chr10	48424208	TGGTCCT	T	0.083	89	PASS	MAPK8	intron_variant	Dura AdCa
chr10	48652213	G	A	0.851	76	PASS	ARHGAP22	intron_variant	Dura AdCa
chr10	49155796	T	C	0.1	58	PASS	TMEM273	3_prime_utr_variant	Dura AdCa
chr10	49515466	T	C	0.041	108	PASS	ERCC6	intron_variant	Dura AdCa
chr10	49744055	G	C	0.114	164	PASS	OGDHL	missense_variant	Dura AdCa
chr10	52768241	C	T	0.127	113	PASS	MBL2	missense_variant	Dura AdCa
chr10	62085759	A	AATCAA	0.014	348	PASS	ARID5B	inframe_deletion	Dura AdCa
chr10	63619825	CTCATCT	C	0.124	78	PASS	REEP3	intron_variant	Dura AdCa
chr10	68416810	TCTTGAA	T	0.023	546	PASS	DNA2	stop_gained&frameshift_variant	Dura AdCa
chr10	73138116	A	C	0.067	63	PASS	ECD	intron_variant	Dura AdCa
chr10	73852191	A	G	0.039	152	PASS	CAMK2G	intron_variant	Dura AdCa
chr10	91992300	ATCCTTT	A	0.095	76	PASS	BTAF1	stop_gained&frameshift_variant	Dura AdCa
chr10	92999360	A	G	0.041	147	PASS	EXOC6	intron_variant	Dura AdCa
chr10	93325895	G	A	0.886	200	PASS	MYOF	synonymous_variant	Dura AdCa
chr10	93431454	T	G	0.021	220	PASS	MYOF	missense_variant	Dura AdCa
chr10	96955218	TCCTCGA	T	0.073	150	PASS	LCOR	intron_variant	Dura AdCa
chr10	96955220	CTTGTGC	C	0.072	153	PASS	LCOR	intron_variant	Dura AdCa
chr10	99360881	A	G	0.026	294	PASS	CNNM1	synonymous_variant	Dura AdCa
chr10	102362622	CACAGG	C	0.061	96	PASS	GBF1	stop_gained&frameshift_variant	Dura AdCa
chr10	102368746	A	G	0.053	117	PASS	GBF1	missense_variant	Dura AdCa
chr10	102644855	A	G	0.134	356	PASS	TRIM8	missense_variant	Dura AdCa
chr10	102834849	TGTGATA	T	0.035	281	PASS	CYP17A1	stop_gained&frameshift_variant	Dura AdCa
chr10	110498227	A	G	0.541	258	PASS	DUSP5	missense_variant	Dura AdCa
chr10	113835241	TCCAATC	T	0.034	233	PASS	DCLRE1A	frameshift_variant	Dura AdCa
chr10	114485441	TGTCAAC	T	0.055	116	PASS	ABLIM1	intron_variant	Dura AdCa
chr10	120880780	T	A	0.383	113	PASS	WDR11	intron_variant	Dura AdCa
chr10	121517319	G	C	0.022	328	PASS	FGFR2	missense_variant&splice_region_variant	Dura AdCa
chr10	122640355	T	TCTGATC	0.012	267	PASS	DMBT1	frameshift_variant	Dura AdCa
chr10	124826680	A	G	0.024	469	PASS	ABRAXAS2	missense_variant	Dura AdCa
chr10	125852632	A	G	0.54	171	PASS	DHX32	missense_variant	Dura AdCa
chr11	614181	AATCTCT	A	0.045	131	PASS	IRF7	stop_gained&frameshift_variant	Dura AdCa
chr11	1181260	T	C	0.988	136	PASS	MUC5AC	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr11	1182098	CG	C	0.98	67	PASS	MUC5AC	intron_variant	Dura AdCa
chr11	1608023	A	G	0.107	116	PASS	KRTAP5-3	synonymous_variant	Dura AdCa
chr11	2418343	A	C	0.041	135	PASS	TRPM5	missense_variant	Dura AdCa
chr11	5151980	AATATAC	A	0.063	92	PASS	OR52A1	stop_gained&frameshift_variant	Dura AdCa
chr11	5857088	GTTGTCC	G	0.08	104	PASS	OR52E8	inframe_insertion	Dura AdCa
chr11	6558649	T	C	0.047	114	PASS	DNHD1	missense_variant	Dura AdCa
chr11	7796349	G	A	0.05	52	PASS	OR5P2	synonymous_variant	Dura AdCa
chr11	8452743	G	A	0.07	57	PASS	STK33	intron_variant	Dura AdCa
chr11	8452749	T	C	0.065	61	PASS	STK33	intron_variant	Dura AdCa
chr11	18709691	G	A	0.86	60	PASS	IGSF22	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr11	22624986	T	C	0.479	111	PASS	FANCF	synonymous_variant	Dura AdCa
chr11	32613407	T	A	0.071	81	PASS	CCDC73	intron_variant	Dura AdCa
chr11	33287089	G	C	0.034	174	PASS	HIPK3	missense_variant	Dura AdCa
chr11	34651698	GAGATG	G	0.055	122	PASS	EHF	intron_variant	Dura AdCa
chr11	34651700	GAATTTT	G	0.055	120	PASS	EHF	intron_variant	Dura AdCa
chr11	43493913	TCCCTCC	T	0.073	101	PASS	TTC17	3_prime_utr_variant	Dura AdCa
chr11	43493917	TAAGAA	T	0.076	94	PASS	TTC17	3_prime_utr_variant	Dura AdCa
chr11	47441634	T	C	0.509	292	PASS	RAPSN	missense_variant	Dura AdCa
chr11	47804683	TGGTGG	T	0.066	89	PASS	NUP160	intron_variant	Dura AdCa
chr11	56159674	C	A	0.038	110	PASS	OR8K5	stop_gained	Dura AdCa
chr11	56159677	ACAGTA	A	0.039	108	PASS	OR8K5	stop_gained&frameshift_variant	Dura AdCa
chr11	61102576	T	C	0.485	111	PASS	CD5	synonymous_variant	Dura AdCa
chr11	62527519	G	A	0.015	486	PASS	AHNAK	missense_variant	Dura AdCa
chr11	62527803	GTGAGG	G	0.025	521	PASS	AHNAK	stop_gained&frameshift_variant	Dura AdCa
chr11	62528270	A	G	0.018	707	PASS	AHNAK	synonymous_variant	Dura AdCa
chr11	62994612	T	C	0.032	237	PASS	SLC22A8	synonymous_variant	Dura AdCa
chr11	64287893	T	C	0.49	323	PASS	GPR137	missense_variant	Dura AdCa
chr11	67452275	A	C	0.44	215	PASS	GPR152	missense_variant	Dura AdCa
chr11	73873461	C	G	0.046	99	PASS	COA4	intron_variant	Dura AdCa
chr11	76792827	G	T	0.021	229	PASS	TSKU	intron_variant	Dura AdCa
chr11	86256406	G	C	0.016	525	PASS	EED	missense_variant	Dura AdCa
chr11	89782118	C	A	0.363	159	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr11	89870756	C	T	0.244	187	PASS	TRIM64B	synonymous_variant	Dura AdCa
chr11	94512682	G	A	0.444	71	PASS	C11orf97	intron_variant	Dura AdCa
chr11	94997923	TACAGA	T	0.049	219	PASS	KDM4D	stop_gained&frameshift_variant	Dura AdCa
chr11	108353857	A	G	0.024	205	PASS	ATM	synonymous_variant	Dura AdCa
chr11	113931878	TG	CA	0.866	78	PASS	HTR3B	intron_variant	Dura AdCa
chr11	117918645	C	CCTGGA	0.022	699	PASS	TMPRSS13	inframe_deletion	Dura AdCa
chr11	118104886	T	C	0.042	56	PASS	TMPRSS4	intron_variant	Dura AdCa
chr11	118502404	C	CTACCC	0.016	337	PASS	KMT2A	frameshift_variant	Dura AdCa
chr11	122885982	TGACGA	T	0.042	166	PASS	JHY	stop_gained&frameshift_variant	Dura AdCa
chr11	132435187	AT	TA	0.065	51	PASS	OPCML	intron_variant	Dura AdCa
chr11	132435190	C	G	0.065	50	PASS	OPCML	intron_variant	Dura AdCa
chr12	66973	T	A	0.744	225	PASS	IQSEC3	missense_variant	Dura AdCa
chr12	2682469	T	C	0.03	139	PASS	CACNA1C-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr12	2797289	A	G	0.067	370	PASS	.	splice_polypyrimidine_tract_variant&intron_variant&no	Dura AdCa
chr12	2874006	G	GCTCCA	0.02	296	PASS	FOXM1	frameshift_variant	Dura AdCa
chr12	5969435	C	G	0.763	103	PASS	VWF	intron_variant	Dura AdCa
chr12	8850290	G	A	0.519	146	PASS	A2ML1	intron_variant	Dura AdCa
chr12	10126650	TTTATGA	T	0.038	245	PASS	CLEC7A	stop_gained&protein_altering_variant	Dura AdCa
chr12	10882675	T	G	0.194	280	PASS	PRH1	missense_variant	Dura AdCa
chr12	11393075	T	TGTTGC	0.039	444	PASS	PRB2	inframe_deletion	Dura AdCa

chr12	12940880	T	TCTGAG(	0.039	182	PASS	GPRC5D-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr12	12940904	TTCAACC	T	0.049	134	PASS	GPRC5D-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr12	21852270	A	G	0.025	167	PASS	ABCC9	intron_variant	Dura AdCa
chr12	25144612	CATGGT(	C	0.039	183	PASS	DNAI7	frameshift_variant	Dura AdCa
chr12	26597178	ATTCTTG	A	0.029	144	PASS	ITPR2	intron_variant	Dura AdCa
chr12	26597184	GGCATG(	G	0.03	136	PASS	ITPR2	intron_variant	Dura AdCa
chr12	38320549	G	T	0.393	330	PASS	ALG10B	missense_variant	Dura AdCa
chr12	40414886	CTCAGA(	C	0.049	238	PASS	MUC19	stop_gained&frameshift_variant	Dura AdCa
chr12	40515401	AA	GG	0.054	105	PASS	MUC19	intron_variant	Dura AdCa
chr12	50350690	A	ATGGTG/	0.026	252	PASS	FAM186A	frameshift_variant	Dura AdCa
chr12	52489930	C	T	0.04	408	PASS	KRT6A	intron_variant	Dura AdCa
chr12	52519021	T	C	0.039	426	PASS	KRT5	missense_variant	Dura AdCa
chr12	54182416	G	A	0.841	314	PASS	SMUG1	missense_variant	Dura AdCa
chr12	54508543	T	C	0.924	97	PASS	NCKAP1L	intron_variant	Dura AdCa
chr12	62104733	AA	CC	0.825	154	PASS	TAFA2	intron_variant	Dura AdCa
chr12	64222275	T	C	0.125	192	PASS	KICS2	5_prime_utr_variant	Dura AdCa
chr12	66377232	GGGGTG(	G	0.068	152	PASS	GRIP1	stop_gained&frameshift_variant	Dura AdCa
chr12	68722088	T	G	0.037	161	PASS	NUP107	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr12	68836732	C	CCTGAA/	0.015	321	PASS	MDM2	splice_donor_variant&splice_donor_5th_base_variant&(	Dura AdCa
chr12	68870437	C	G	0.052	78	PASS	CPM	intron_variant	Dura AdCa
chr12	70559632	A	T	0.054	71	PASS	PTPRB	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr12	80256318	G	T	0.048	88	PASS	OTOGL	intron_variant	Dura AdCa
chr12	90970116	CTCTTTG	C	0.041	140	PASS	EPYC	stop_gained&inframe_insertion	Dura AdCa
chr12	101338126	G	C	0.608	159	PASS	UTP20	synonymous_variant	Dura AdCa
chr12	108940930	C	T	0.567	157	PASS	SVOP	intron_variant	Dura AdCa
chr12	110044441	A	G	0.045	87	PASS	C12orf76	intron_variant	Dura AdCa
chr12	110163053	ACCATG1	A	0.061	76	PASS	IFT81	stop_gained&frameshift_variant	Dura AdCa
chr12	111520955	G	T	0.556	189	PASS	ATXN2	missense_variant	Dura AdCa
chr12	119704490	CACATTC	C	0.038	210	PASS	CIT	intron_variant	Dura AdCa
chr12	120526477	T	G	0.204	112	PASS	COQ5	intron_variant	Dura AdCa
chr12	121417627	T	C	0.027	264	PASS	RNF34	stop_gained	Dura AdCa
chr12	122569631	A	C	0.08	87	PASS	KNTC1	intron_variant	Dura AdCa
chr12	122702193	T	TAAGGA	0.065	485	PASS	HCAR2	frameshift_variant&stop_lost	Dura AdCa
chr12	123313656	AGTTTTG	A	0.04	151	PASS	SBNO1	stop_gained&frameshift_variant	Dura AdCa
chr12	123313659	CCTGTTT	C	0.04	148	PASS	SBNO1	frameshift_variant	Dura AdCa
chr12	124314124	C	T	0.278	150	PASS	RFLNA	intron_variant	Dura AdCa
chr12	124912584	T	C	0.041	615	PASS	UBC	synonymous_variant	Dura AdCa
chr12	124913577	A	G	0.028	695	PASS	UBC	synonymous_variant	Dura AdCa
chr12	131982290	AT	CC	0.289	348	PASS	EP400	missense_variant	Dura AdCa
chr12	133010734	A	G	0.352	232	PASS	ZNF26	synonymous_variant	Dura AdCa
chr12	133058128	G	A	0.027	220	PASS	ZNF84	synonymous_variant	Dura AdCa
chr12	133058134	A	G	0.027	218	PASS	ZNF84	synonymous_variant	Dura AdCa
chr12	133100956	C	T	0.698	208	PASS	ZNF140	intron_variant	Dura AdCa
chr12	133193378	AAGGGC	A	0.024	166	PASS	ZNF268	intron_variant	Dura AdCa
chr13	20796964	C	T	0.055	82	PASS	XPO4	missense_variant	Dura AdCa
chr13	21387632	AAGAAG.	A	0.083	109	PASS	ZDHHC20	frameshift_variant&splice_region_variant	Dura AdCa
chr13	23891902	C	A	0.046	504	PASS	C1QTNF9B	missense_variant	Dura AdCa
chr13	24685340	A	ATTGGA/	0.03	164	PASS	ATP12A	splice_donor_variant&splice_donor_5th_base_variant&(	Dura AdCa
chr13	28467035	T	TGCCATT	0.038	266	PASS	FLT1	frameshift_variant	Dura AdCa
chr13	32336895	GTCTGTT	G	0.028	276	PASS	BRCA2	stop_gained&frameshift_variant	Dura AdCa
chr13	32337144	AATTTTC	A	0.074	320	PASS	BRCA2	stop_gained&frameshift_variant	Dura AdCa
chr13	32337995	GATAAC/	G	0.104	304	PASS	BRCA2	frameshift_variant	Dura AdCa
chr13	32340733	CCCCATC	C	0.046	238	PASS	BRCA2	stop_gained&frameshift_variant	Dura AdCa
chr13	32342571	TTCAGG	T	0.059	98	PASS	BRCA2	intron_variant	Dura AdCa
chr13	34541522	A	G	0.322	97	PASS	LINC00457	intron_variant&non_coding_transcript_variant	Dura AdCa
chr13	42301327	ATTTGTC	A	0.067	115	PASS	AKAP11	stop_gained&frameshift_variant	Dura AdCa
chr13	42302030	AGTATA(	A	0.049	115	PASS	AKAP11	protein_altering_variant	Dura AdCa
chr13	42302032	GATAAT1	G	0.049	116	PASS	AKAP11	stop_gained&protein_altering_variant	Dura AdCa
chr13	45398102	G	A	0.049	55	PASS	TPT1-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr13	48364778	T	G	0.057	76	PASS	RB1	intron_variant	Dura AdCa
chr13	51245424	T	C	0.571	62	PASS	FAM124A	intron_variant	Dura AdCa
chr13	79539795	A	T	0.056	82	PASS	NDFIP2	intron_variant	Dura AdCa
chr13	102735811	A	C	0.085	62	PASS	CCDC168	missense_variant	Dura AdCa
chr13	114323914	C	A	0.13	125	PASS	CHAMP1	synonymous_variant	Dura AdCa
chr14	19097884	T	G	0.169	138	PASS	DUXAP9	intron_variant&non_coding_transcript_variant	Dura AdCa
chr14	21525168	T	C	0.024	213	PASS	SALL2	missense_variant	Dura AdCa
chr14	23417278	T	G	0.453	296	PASS	MYH7	stop_gained	Dura AdCa
chr14	23424064	G	A	0.497	260	PASS	MYH7	missense_variant	Dura AdCa
chr14	23955080	C	T	0.063	764	PASS	DHRS4	synonymous_variant	Dura AdCa
chr14	23967451	C	A	0.068	248	PASS	DHRS4	intron_variant	Dura AdCa
chr14	24155568	AAAGCT(	A	0.024	343	PASS	RNF31	intron_variant	Dura AdCa
chr14	31129426	ATCTGG(	A	0.028	262	PASS	HECTD1	stop_gained&frameshift_variant	Dura AdCa
chr14	45032186	C	G	0.39	117	PASS	KLHL28	intron_variant	Dura AdCa
chr14	45164495	A	G	0.498	368	PASS	FANCM	missense_variant	Dura AdCa
chr14	45175747	A	C	0.013	487	PASS	FANCM	missense_variant	Dura AdCa
chr14	50613419	T	G	0.558	117	PASS	ATL1	intron_variant	Dura AdCa
chr14	70246727	CA	TG	0.044	203	PASS	ADAM21P1	non_coding_transcript_exon_variant	Dura AdCa
chr14	77416593	C	T	0.104	83	PASS	NOXRED1	intron_variant	Dura AdCa
chr14	77416654	T	TC	0.108	124	PASS	NOXRED1	intron_variant	Dura AdCa
chr14	77416691	C	A	0.063	128	PASS	NOXRED1	intron_variant	Dura AdCa
chr14	90304150	A	G	0.535	252	PASS	NRDE2	missense_variant	Dura AdCa
chr14	90318141	AATCGG(	A	0.077	81	PASS	NRDE2	intron_variant	Dura AdCa
chr14	91339157	G	A	0.029	173	PASS	CCDC88C	intron_variant	Dura AdCa
chr14	95124397	CTGCTCC	C	0.034	638	PASS	DICER1	inframe_insertion	Dura AdCa
chr14	100567885	T	C	0.461	131	PASS	BEGAIN	intron_variant	Dura AdCa
chr14	104741279	T	C	0.499	162	PASS	ADSS1	intron_variant	Dura AdCa

chr14	104932945	C	A	0.42	281	PASS	PLD4	missense_variant	Dura AdCa
chr14	105241244	C	G	0.532	65	PASS	BRF1	intron_variant	Dura AdCa
chr14	105272810	A	G	0.023	414	PASS	BRF1	missense_variant	Dura AdCa
chr14	105625935	C	G	0.283	289	PASS	IGHG4	synonymous_variant	Dura AdCa
chr14	105625998	C	G	0.294	240	PASS	IGHG4	synonymous_variant	Dura AdCa
chr14	105707471	A	G	0.25	557	PASS	IGHA1	synonymous_variant	Dura AdCa
chr14	105767772	G	A	0.094	112	PASS	IGHG3	intron_variant	Dura AdCa
chr14	105767851	G	A	0.062	93	PASS	IGHG3	synonymous_variant	Dura AdCa
chr14	105863968	G	A	0.461	98	PASS	MIR4537	upstream_gene_variant	Dura AdCa
chr14	106012330	C	G	0.425	307	PASS	IGHV4-4	synonymous_variant	Dura AdCa
chr14	106062072	G	T	0.218	307	PASS	IGHV3-7	downstream_gene_variant	Dura AdCa
chr14	106062074	G	T	0.217	307	PASS	IGHV3-7	downstream_gene_variant	Dura AdCa
chr14	106062169	A	G	0.377	510	PASS	IGHV3-7	synonymous_variant	Dura AdCa
chr14	106335083	C	T	0.429	1875	PASS	IGHV3-30	missense_variant	Dura AdCa
chr14	106349771	A	T	0.422	446	PASS	IGHV4-31	5_prime_utr_variant	Dura AdCa
chr14	106627496	GT	CC	0.017	650	PASS	IGHV4-59	missense_variant	Dura AdCa
chr14	106675068	C	A	0.018	318	PASS	IGHV3-66	synonymous_variant	Dura AdCa
chr15	31002354	A	T	0.036	168	PASS	TRPM1	missense_variant	Dura AdCa
chr15	34154595	T	C	0.87	72	PASS	KATNBL1	intron_variant	Dura AdCa
chr15	34254487	T	C	0.104	110	PASS	SLC12A6	missense_variant	Dura AdCa
chr15	41278897	ATTAACC	A	0.042	178	PASS	CHP1	intron_variant	Dura AdCa
chr15	44828439	G	A	0.294	511	PASS	SORD2P	intron_variant&non_coding_transcript_variant	Dura AdCa
chr15	48121861	TCATCAC	T	0.079	69	PASS	SLC24A5	stop_gained&inframe_insertion	Dura AdCa
chr15	48767150	CCCTATT	C	0.076	119	PASS	CEP152	stop_gained&frameshift_variant	Dura AdCa
chr15	61884130	T	C	0.905	58	PASS	VPS13C	missense_variant&splice_region_variant	Dura AdCa
chr15	65395129	A	G	0.771	121	PASS	IGDCC4	missense_variant	Dura AdCa
chr15	67255028	C	G	0.169	123	PASS	IQCH	intron_variant	Dura AdCa
chr15	69014683	CC	AG	0.864	88	PASS	NOX5	upstream_gene_variant	Dura AdCa
chr15	70672087	GGAACA	G	0.102	54	PASS	UACA	intron_variant	Dura AdCa
chr15	72290086	ATGCAG	A	0.025	309	PASS	CELF6	intron_variant	Dura AdCa
chr15	72407248	C	G	0.15	61	PASS	TMEM202	intron_variant	Dura AdCa
chr15	74619971	T	G	0.707	198	PASS	CLK3	intron_variant	Dura AdCa
chr15	79025348	A	G	0.727	146	PASS	RASGRF1	missense_variant	Dura AdCa
chr15	82342744	GT	G	0.341	102	PASS	GOLGA6L10	3_prime_utr_variant	Dura AdCa
chr15	82343155	A	C	0.637	211	PASS	GOLGA6L10	missense_variant	Dura AdCa
chr15	82345980	GT	CC	0.318	110	PASS	GOLGA6L10	intron_variant	Dura AdCa
chr15	82347489	C	G	0.03	201	PASS	GOLGA6L10	intron_variant	Dura AdCa
chr15	82434465	T	C	0.133	82	PASS	GOLGA6L9	stop_gained	Dura AdCa
chr15	82524937	A	G	0.075	68	PASS	GOLGA6L17P	intron_variant&non_coding_transcript_variant	Dura AdCa
chr15	89683799	G	C	0.054	125	PASS	PEX11A	missense_variant	Dura AdCa
chr15	90913804	CATAAG	C	0.05	132	PASS	MAN2A2	intron_variant	Dura AdCa
chr15	90913805	CCTTGC	C	0.05	131	PASS	MAN2A2	intron_variant	Dura AdCa
chr15	94402576	ACCACA	A	0.086	71	PASS	MCTP2	intron_variant	Dura AdCa
chr15	101712011	AACACT	A	0.071	89	PASS	TARS3	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr15	101966111	G	C	0.167	140	PASS	WASH3P	non_coding_transcript_exon_variant	Dura AdCa
chr16	281826	C	G	0.449	185	PASS	ARHGDIG	missense_variant	Dura AdCa
chr16	2235168	A	G	0.023	239	PASS	E4F1	intron_variant	Dura AdCa
chr16	2324392	T	C	0.542	131	PASS	ABCA3	intron_variant	Dura AdCa
chr16	4783733	T	C	0.043	126	PASS	SEPTIN12	synonymous_variant	Dura AdCa
chr16	10482212	TAAAAT	T	0.082	141	PASS	ATF7IP2	stop_gained&frameshift_variant	Dura AdCa
chr16	11999364	T	C	0.473	210	PASS	SNX29	splice_donor_region_variant&intron_variant	Dura AdCa
chr16	14918846	C	T	0.102	59	PASS	PKD1P3	non_coding_transcript_exon_variant	Dura AdCa
chr16	14951901	A	AGTGTC	0.022	577	PASS	NPIPA1	frameshift_variant	Dura AdCa
chr16	14951909	T	C	0.304	420	PASS	NPIPA1	missense_variant	Dura AdCa
chr16	14975345	C	T	0.075	676	PASS	PDXDC1	intron_variant	Dura AdCa
chr16	15129957	T	C	0.23	151	PASS	PDXDC1	intron_variant	Dura AdCa
chr16	15363750	G	GGAGCT	0.021	606	PASS	NPIPA5	inframe_deletion	Dura AdCa
chr16	18347905	G	A	0.174	173	PASS	PKD1P4	non_coding_transcript_exon_variant	Dura AdCa
chr16	21201719	T	C	0.036	154	PASS	ZP2	synonymous_variant	Dura AdCa
chr16	23629560	A	C	0.044	156	PASS	PALB2	intron_variant	Dura AdCa
chr16	25140083	C	G	0.054	71	PASS	LCMT1	intron_variant	Dura AdCa
chr16	27481256	A	G	0.041	142	PASS	GTF3C1	intron_variant	Dura AdCa
chr16	29364735	A	T	0.03	343	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr16	29383175	C	T	0.029	246	PASS	NPIPB11	missense_variant	Dura AdCa
chr16	31793797	T	A	0.345	212	PASS	KRBOX5	non_coding_transcript_exon_variant	Dura AdCa
chr16	50668036	T	C	0.435	352	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr16	55810697	T	G	0.129	90	PASS	CES1	intron_variant	Dura AdCa
chr16	55812849	T	C	0.038	196	PASS	CES1	intron_variant	Dura AdCa
chr16	56405102	G	A	0.089	57	PASS	AMFR	intron_variant	Dura AdCa
chr16	56509915	G	A	0.157	78	PASS	BBS2	intron_variant	Dura AdCa
chr16	57759844	T	C	0.086	51	PASS	KIFC3	splice_region_variant&splice_polypyrimidine_tract_varia	Dura AdCa
chr16	58582782	T	C	0.042	112	PASS	CNOT1	intron_variant	Dura AdCa
chr16	66388463	GTCTTTG	G	0.077	86	PASS	CDH5	intron_variant	Dura AdCa
chr16	66724706	G	T	0.038	77	PASS	DYNC1LI2	intron_variant	Dura AdCa
chr16	84074744	A	G	0.066	67	PASS	MBTPS1	splice_region_variant&splice_polypyrimidine_tract_varia	Dura AdCa
chr16	85082633	A	G	0.07	66	PASS	KIAA0513	intron_variant	Dura AdCa
chr16	87603463	ACTTAAT	A	0.051	207	PASS	JPH3	stop_gained&frameshift_variant	Dura AdCa
chr16	88678500	T	C	0.041	192	PASS	SNAI3	missense_variant	Dura AdCa
chr16	88727505	C	G	0.027	90	PASS	PIEZO1	intron_variant	Dura AdCa
chr16	88951011	G	GCCTGG	0.746	452	PASS	CBFA2T3	intron_variant	Dura AdCa
chr17	138824	A	C	0.977	180	PASS	SCGB1C2	intron_variant	Dura AdCa
chr17	2998283	A	G	0.054	305	PASS	RAP1GAP2	synonymous_variant	Dura AdCa
chr17	4282884	CA	C	0.043	182	PASS	UBE2G1	frameshift_variant	Dura AdCa
chr17	4282887	TATGTAA	T	0.043	178	PASS	UBE2G1	stop_gained&frameshift_variant	Dura AdCa
chr17	7675085	T	C	0.835	998	PASS	TP53	missense_variant	Dura AdCa
chr17	10448799	ATTCTGT	A	0.041	151	PASS	MYH4	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa

chr17	10699268	CCTTCTG	C	0.067	84	PASS	TMEM220	splice_acceptor_variant	Dura AdCa
chr17	13496831	AGC	A	0.024	687	PASS	HS3ST3A1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr17	18091852	TG	CA	0.986	95	PASS	DRG2	intron_variant	Dura AdCa
chr17	21043507	G	A	0.068	384	PASS	USP22	upstream_gene_variant	Dura AdCa
chr17	28048003	A	G	0.557	127	PASS	NLK	intron_variant	Dura AdCa
chr17	28369358	G	C	0.523	291	PASS	VTN	missense_variant	Dura AdCa
chr17	29495569	C	G	0.032	137	PASS	TAOK1	missense_variant	Dura AdCa
chr17	29632116	T	TTG	0.307	239	PASS	SSH2	frameshift_variant	Dura AdCa
chr17	32369294	T	G	0.047	110	PASS	ZNF207	splice_acceptor_variant	Dura AdCa
chr17	35363203	CAAATTC	C	0.032	262	PASS	SLFN11	frameshift_variant	Dura AdCa
chr17	35363205	AGAAGC	A	0.032	267	PASS	SLFN11	stop_gained	Dura AdCa
chr17	35741246	A	G	0.473	314	PASS	RASL10B	missense_variant	Dura AdCa
chr17	36195196	A	G	0.713	268	PASS	CCL3L3	3_prime_utr_variant	Dura AdCa
chr17	36196527	G	A	0.984	170	PASS	CCL3L3	intron_variant	Dura AdCa
chr17	36211278	T	G	0.988	125	PASS	CCL4L2	intron_variant	Dura AdCa
chr17	36211979	C	T	0.993	192	PASS	CCL4L2	intron_variant	Dura AdCa
chr17	36212342	GA	CG	0.993	214	PASS	CCL4L2	missense_variant	Dura AdCa
chr17	36254584	T	G	0.155	165	PASS	TBC1D3I	intron_variant	Dura AdCa
chr17	36307282	A	T	0.145	83	PASS	.	splice_polypyrimidine_tract_variant&intron_variant&no	Dura AdCa
chr17	36452733	A	G	0.451	108	PASS	TBC1D3JP	non_coding_transcript_exon_variant	Dura AdCa
chr17	36953143	A	G	0.09	183	PASS	AATF	missense_variant	Dura AdCa
chr17	37635608	T	A	0.431	208	PASS	DDX52	intron_variant	Dura AdCa
chr17	38119271	T	C	0.867	53	PASS	NPEPPSP1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr17	40818851	AGCTGC	A	0.154	244	PASS	KRT10	inframe_insertion	Dura AdCa
chr17	41160573	A	C	0.5	465	PASS	KRTAP4-4	missense_variant	Dura AdCa
chr17	41275687	T	C	0.046	157	PASS	KRTAP9-10P	upstream_gene_variant	Dura AdCa
chr17	41275814	T	G	0.074	353	PASS	KRTAP9-7	synonymous_variant	Dura AdCa
chr17	41422764	GC	AG	0.236	71	PASS	KRT37	intron_variant	Dura AdCa
chr17	41438269	T	G	0.515	372	PASS	KRT38	missense_variant	Dura AdCa
chr17	41477545	CCACTTT	C	0.025	443	PASS	KRT35	stop_gained&frameshift_variant	Dura AdCa
chr17	41567235	A	T	0.338	100	PASS	KRT9	splice_region_variant&3_prime_utr_variant	Dura AdCa
chr17	42669593	C	A	0.041	159	PASS	PLEKHH3	missense_variant	Dura AdCa
chr17	42874175	G	A	0.25	170	PASS	AOC4P	non_coding_transcript_exon_variant	Dura AdCa
chr17	43060548	A	G	0.062	71	PASS	BRCA1	intron_variant	Dura AdCa
chr17	44212035	CCTGGTT	C	0.047	135	PASS	UBTF	intron_variant	Dura AdCa
chr17	45547982	T	C	0.101	202	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr17	45547991	G	C	0.111	207	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr17	46259843	T	C	0.111	708	PASS	.	non_coding_transcript_exon_variant	Dura AdCa
chr17	46528798	A	G	0.109	171	PASS	ARL17A	intron_variant	Dura AdCa
chr17	46548670	A	G	0.129	392	PASS	LRRC37A2	synonymous_variant	Dura AdCa
chr17	46553527	G	A	0.139	168	PASS	ARL17A	3_prime_utr_variant	Dura AdCa
chr17	47291081	GTGGAT	G	0.048	159	PASS	ITGB3	inframe_insertion	Dura AdCa
chr17	47291084	AATGAC	A	0.049	155	PASS	ITGB3	stop_gained&frameshift_variant	Dura AdCa
chr17	47923156	T	C	0.27	342	PASS	SP2	synonymous_variant	Dura AdCa
chr17	50186515	ATGTCA	A	0.046	304	PASS	COL1A1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr17	50186517	GGGTTC	G	0.047	302	PASS	COL1A1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr17	50863591	C	T	0.05	300	PASS	TOB1	missense_variant	Dura AdCa
chr17	58617559	C	G	0.306	108	PASS	TEX14	missense_variant	Dura AdCa
chr17	59275089	GT	AC	0.036	66	PASS	GDPD1	3_prime_utr_variant	Dura AdCa
chr17	59275100	C	T	0.066	74	PASS	GDPD1	3_prime_utr_variant	Dura AdCa
chr17	64822018	C	G	0.103	321	PASS	PLEKHM1P1	non_coding_transcript_exon_variant	Dura AdCa
chr17	67138031	G	A	0.345	258	PASS	HELZ	synonymous_variant	Dura AdCa
chr17	69304746	T	C	0.307	51	PASS	ABCA5	missense_variant	Dura AdCa
chr17	75937609	G	C	0.446	222	PASS	FBF1	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr17	79784185	C	G	0.608	295	PASS	CBX2	missense_variant	Dura AdCa
chr17	80643748	G	C	0.012	367	PASS	RPTOR	missense_variant	Dura AdCa
chr17	82374399	A	T	0.49	144	PASS	UTS2R	synonymous_variant	Dura AdCa
chr18	712568	A	G	0.506	250	PASS	ENOSF1	missense_variant	Dura AdCa
chr18	2554916	A	G	0.536	162	PASS	METTL4	synonymous_variant	Dura AdCa
chr18	2934338	G	A	0.47	202	PASS	LPIN2	intron_variant	Dura AdCa
chr18	6995488	T	A	0.5	86	PASS	LAMA1	intron_variant	Dura AdCa
chr18	7013998	A	G	0.429	415	PASS	LAMA1	synonymous_variant	Dura AdCa
chr18	7015977	T	C	0.465	77	PASS	LAMA1	intron_variant	Dura AdCa
chr18	8706188	T	C	0.471	103	PASS	MTCL1	synonymous_variant	Dura AdCa
chr18	9887023	T	G	0.025	386	PASS	TXNDC2	missense_variant	Dura AdCa
chr18	12955468	C	T	0.052	210	PASS	SEH1L	synonymous_variant	Dura AdCa
chr18	24358591	G	T	0.052	70	PASS	OSBPL1A	intron_variant	Dura AdCa
chr18	57573406	C	T	0.086	50	PASS	FECH	intron_variant	Dura AdCa
chr18	57602938	T	G	0.061	79	PASS	NARS1	synonymous_variant	Dura AdCa
chr18	58044732	T	C	0.055	111	PASS	NEDD4L	intron_variant	Dura AdCa
chr18	58045108	A	G	0.115	493	PASS	NEDD4L	intron_variant	Dura AdCa
chr18	58671560	A	G	0.069	152	PASS	MALT1	5_prime_utr_variant	Dura AdCa
chr18	63331755	A	AC	0.089	199	PASS	KDSR	3_prime_utr_variant	Dura AdCa
chr18	63331757	A	AG	0.089	199	PASS	KDSR	3_prime_utr_variant	Dura AdCa
chr18	63801022	A	G	0.062	70	PASS	SERPINB7	intron_variant	Dura AdCa
chr19	1622424	A	G	0.754	188	PASS	TCF3	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa
chr19	2917465	TACACAC	T	0.035	200	PASS	ZNF57	frameshift_variant	Dura AdCa
chr19	7550967	G	GCC	0.039	116	PASS	PNPLA6	intron_variant	Dura AdCa
chr19	7550972	A	AATCATC	0.034	146	PASS	PNPLA6	splice_acceptor_variant&coding_sequence_variant&intr	Dura AdCa
chr19	8086248	G	C	0.416	283	PASS	FBN3	missense_variant	Dura AdCa
chr19	8321398	TA	T	0.469	251	PASS	RPS28	upstream_gene_variant	Dura AdCa
chr19	8323285	A	G	0.514	89	PASS	RPS28	3_prime_utr_variant	Dura AdCa
chr19	8510850	C	CCCGCG	0.586	187	PASS	ZNF414	inframe_deletion&splice_region_variant	Dura AdCa
chr19	8605262	T	C	0.513	297	PASS	ADAMTS10	missense_variant	Dura AdCa
chr19	8861010	C	G	0.493	99	PASS	MUC16	missense_variant	Dura AdCa
chr19	8891843	C	G	0.272	384	PASS	MUC16	missense_variant	Dura AdCa

chr19	8902191	T	G	0.023	314	PASS	MUC16	synonymous_variant	Dura AdCa
chr19	8938611	TTCTGCT	T	0.034	178	PASS	MUC16	stop_gained&frameshift_variant	Dura AdCa
chr19	8979177	TGCAGA	T	0.031	338	PASS	MUC16	frameshift_variant	Dura AdCa
chr19	8979181	GGTGTG(	G	0.031	338	PASS	MUC16	stop_gained	Dura AdCa
chr19	12957208	A	G	0.058	66	PASS	GADD45GIP1	missense_variant	Dura AdCa
chr19	13814607	A	G	0.028	312	PASS	ZSWIM4	missense_variant	Dura AdCa
chr19	18938522	A	G	0.493	263	PASS	HOMER3	intron_variant	Dura AdCa
chr19	19245400	T	C	0.018	434	PASS	NCAN	missense_variant	Dura AdCa
chr19	19505356	G	C	0.511	219	PASS	GATAD2A	missense_variant	Dura AdCa
chr19	19650028	T	A	0.049	111	PASS	ATP13A1	intron_variant	Dura AdCa
chr19	23935301	T	G	0.083	158	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr19	23935307	TTGAGG/	T	0.084	154	PASS	.	intron_variant&non_coding_transcript_variant	Dura AdCa
chr19	30557233	AAACGT/	A	0.049	150	PASS	ZNF536	3_prime_utr_variant	Dura AdCa
chr19	36627382	TCAGTG1	T	0.053	134	PASS	ZNF382	stop_gained&inframe_insertion	Dura AdCa
chr19	38950233	T	C	0.474	223	PASS	FBXO17	synonymous_variant	Dura AdCa
chr19	40370082	A	C	0.488	361	PASS	PLD3	intron_variant	Dura AdCa
chr19	40396791	G	GTACCTC	0.025	620	PASS	PRX	inframe_deletion	Dura AdCa
chr19	40763048	T	C	0.038	115	PASS	SNRPA	missense_variant	Dura AdCa
chr19	40778492	CA	TG	0.522	153	PASS	RAB4B	intron_variant	Dura AdCa
chr19	40881553	A	G	0.039	271	PASS	CYP2A7	intron_variant	Dura AdCa
chr19	41125726	T	C	0.067	218	PASS	CYP2F1	intron_variant	Dura AdCa
chr19	41125759	G	T	0.083	185	PASS	CYP2F1	intron_variant	Dura AdCa
chr19	41579543	T	G	0.347	208	PASS	CEACAM21	missense_variant	Dura AdCa
chr19	43016033	T	A	0.018	248	PASS	PSG11-AS1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr19	44496520	C	A	0.517	88	PASS	ZNF180	intron_variant	Dura AdCa
chr19	45421364	T	G	0.031	390	PASS	ERCC1	missense_variant	Dura AdCa
chr19	46519851	AAAAAT1	A	0.037	116	PASS	PPP5D1P	intron_variant&non_coding_transcript_variant	Dura AdCa
chr19	48510162	A	G	0.41	220	PASS	LMTK3	synonymous_variant	Dura AdCa
chr19	49101346	T	C	0.453	316	PASS	SNRNP70	intron_variant	Dura AdCa
chr19	49860193	T	C	0.02	233	PASS	PTOV1	intron_variant	Dura AdCa
chr19	51587738	C	CACAGG/	0.018	273	PASS	ZNF175	inframe_deletion	Dura AdCa
chr19	52414851	T	G	0.077	54	PASS	ZNF528	intron_variant	Dura AdCa
chr19	53116425	GCAGTG(	G	0.062	177	PASS	ZNF415	frameshift_variant	Dura AdCa
chr19	53116427	AAGTTC/	A	0.063	172	PASS	ZNF415	stop_gained&frameshift_variant	Dura AdCa
chr19	53183041	A	C	0.354	72	PASS	ZNF665	intron_variant	Dura AdCa
chr19	54220007	T	C	0.071	117	PASS	LILRB3	intron_variant	Dura AdCa
chr19	54220739	A	C	0.462	363	PASS	LILRB3	synonymous_variant	Dura AdCa
chr19	54222756	C	T	0.659	606	PASS	LILRB3	missense_variant	Dura AdCa
chr19	54222987	T	C	0.318	526	PASS	LILRB3	5_prime_utr_variant	Dura AdCa
chr19	54242117	C	T	0.409	460	PASS	LILRA6	missense_variant	Dura AdCa
chr19	54280655	G	A	0.039	160	PASS	LILRB2	intron_variant	Dura AdCa
chr19	54280660	T	C	0.041	154	PASS	LILRB2	intron_variant	Dura AdCa
chr19	54463591	A	T	0.979	74	PASS	LENG9	5_prime_utr_variant	Dura AdCa
chr19	54667677	G	A	0.146	157	PASS	LILRB4	missense_variant	Dura AdCa
chr19	54727771	T	C	0.36	269	PASS	KIR3DL3	synonymous_variant	Dura AdCa
chr19	54755120	T	G	0.289	396	PASS	KIR2DP1	intron_variant&non_coding_transcript_variant	Dura AdCa
chr19	54773534	A	C	0.282	470	PASS	KIR2DL1	missense_variant	Dura AdCa
chr19	54773593	T	G	0.26	461	PASS	KIR2DL1	missense_variant	Dura AdCa
chr19	54773692	C	A	0.194	229	PASS	KIR2DL1	intron_variant	Dura AdCa
chr19	54773699	G	A	0.203	215	PASS	KIR2DL1	intron_variant	Dura AdCa
chr19	54788295	A	G	0.066	299	PASS	KIR3DP1	non_coding_transcript_exon_variant	Dura AdCa
chr19	54855560	G	A	0.109	183	PASS	KIR3DL2	intron_variant	Dura AdCa
chr19	54855661	A	C	0.03	347	PASS	KIR3DL2	missense_variant	Dura AdCa
chr19	57377872	G	GTGAAT(	0.012	264	PASS	ZNF547	inframe_deletion	Dura AdCa
chr19	57491772	TG	CA	0.096	73	PASS	ZNF419	intron_variant	Dura AdCa
chr19	57573086	A	C	0.032	190	PASS	ZNF416	missense_variant	Dura AdCa
chr19	57676432	T	G	0.071	142	PASS	ZSCAN4	missense_variant	Dura AdCa
chr19	58261877	A	T	0.024	180	PASS	ZNF544	missense_variant	Dura AdCa
chr20	3584835	TAACAA(	T	0.034	136	PASS	ATRN	stop_gained&frameshift_variant	Dura AdCa
chr20	7906324	C	T	0.058	92	PASS	HAO1	missense_variant	Dura AdCa
chr20	7906327	ATTTTAT	A	0.059	92	PASS	HAO1	frameshift_variant&splice_region_variant	Dura AdCa
chr20	16748437	TTCTCAC	T	0.05	206	PASS	OTOR	stop_gained&frameshift_variant	Dura AdCa
chr20	21162004	A	C	0.031	135	PASS	KIZ	missense_variant	Dura AdCa
chr20	23389900	G	A	0.051	84	PASS	NAPB	intron_variant	Dura AdCa
chr20	24665463	A	G	0.467	288	PASS	SYNDIG1	missense_variant	Dura AdCa
chr20	25339350	A	G	0.048	150	PASS	ABHD12	stop_gained&splice_region_variant	Dura AdCa
chr20	32146902	GCCAAT(	G	0.046	117	PASS	TM9SF4	intron_variant	Dura AdCa
chr20	44966698	A	G	0.024	166	PASS	STK4	intron_variant	Dura AdCa
chr20	46022943	GGGA	G	0.889	79	PASS	SLC12A5	intron_variant	Dura AdCa
chr20	54476047	A	G	0.376	330	PASS	DOK5	intron_variant	Dura AdCa
chr20	56637826	A	G	0.427	422	PASS	TFAP2C	missense_variant	Dura AdCa
chr20	58467261	A	G	0.047	157	PASS	APCDD1L	missense_variant	Dura AdCa
chr20	62137444	CTGGTTC	C	0.037	262	PASS	PSMA7	intron_variant	Dura AdCa
chr21	5033666	A	G	0.65	133	PASS	.	intergenic_variant	Dura AdCa
chr21	5033966	C	G	0.419	121	PASS	.	intergenic_variant	Dura AdCa
chr21	13610379	G	GACTCC1	0.028	212	PASS	POTED	inframe_deletion	Dura AdCa
chr21	26954827	C	G	0.016	292	PASS	ADAMTS5	missense_variant	Dura AdCa
chr21	28931146	C	T	0.5	128	PASS	LTN1	intron_variant	Dura AdCa
chr21	32653413	A	C	0.063	63	PASS	SYNJ1	intron_variant	Dura AdCa
chr21	35898262	C	T	0.081	71	PASS	RUNX1	intron_variant	Dura AdCa
chr21	45939993	A	G	0.383	95	PASS	PCBP3	intron_variant	Dura AdCa
chr21	46416365	A	G	0.019	375	PASS	PCNT	synonymous_variant	Dura AdCa
chr22	17103599	A	AG	0.175	79	PASS	IL17RA	intron_variant	Dura AdCa
chr22	17549225	T	C	0.128	266	PASS	CECR2	missense_variant	Dura AdCa
chr22	18079905	C	G	0.03	100	PASS	PEX26	missense_variant	Dura AdCa
chr22	20148813	T	G	0.059	73	PASS	CCDC188	splice_polypyrimidine_tract_variant&intron_variant	Dura AdCa

chr22	20390768	CTAATTT	C	0.063	89	PASS	ZNF74	upstream_gene_variant	Dura AdCa
chr22	29292638	GTGGGT(	G	0.049	262	PASS	EWSR1	intron_variant	Dura AdCa
chr22	30285838	A	G	0.057	127	PASS	CASTOR1	synonymous_variant	Dura AdCa
chr22	30337901	C	T	0.054	171	PASS	SF3A1	splice_region_variant&splice_polypyrimidine_tract_vari	Dura AdCa
chr22	31095586	A	G	0.691	176	PASS	SMTN	missense_variant	Dura AdCa
chr22	31125822	A	T	0.051	85	PASS	INPP5J	stop_gained	Dura AdCa
chr22	31792896	C	G	0.077	69	PASS	DEPDC5	intron_variant	Dura AdCa
chr22	37011274	A	AAGTCC/	0.024	191	PASS	TST	frameshift_variant	Dura AdCa
chr22	38080830	T	C	0.036	164	PASS	SLC16A8	intron_variant	Dura AdCa
chr22	39661119	A	T	0.054	52	PASS	CACNA1I	missense_variant	Dura AdCa
chr22	40882015	CCATAG/	C	0.036	167	PASS	XPNPEP3	stop_gained&frameshift_variant	Dura AdCa
chr22	41729794	A	C	0.077	57	PASS	MEI1	intron_variant	Dura AdCa
chr22	42126611	G	C	0.29	253	PASS	CYP2D6	missense_variant	Dura AdCa
chr22	42128812	GA	AG	0.054	258	PASS	CYP2D6	missense_variant	Dura AdCa
chr22	42128818	TC	T	0.053	261	PASS	CYP2D6	frameshift_variant	Dura AdCa
chr22	42128980	T	C	0.068	339	PASS	NDUFA6-DT	intron_variant&non_coding_transcript_variant	Dura AdCa
chr22	42129008	G	T	0.038	268	PASS	NDUFA6-DT	intron_variant&non_coding_transcript_variant	Dura AdCa
chr22	42129130	G	C	0.187	296	PASS	CYP2D6	synonymous_variant	Dura AdCa
chr22	42129950	C	A	0.24	52	PASS	CYP2D6	intron_variant	Dura AdCa
chr22	42143622	C	A	0.209	56	PASS	CYP2D7	intron_variant	Dura AdCa
chr22	44132895	G	A	0.035	84	PASS	PARVB	splice_region_variant&synonymous_variant	Dura AdCa
chr22	46335918	A	C	0.081	66	PASS	TRMU	intron_variant	Dura AdCa
chrX	315221	C	T	0.919	252	PASS	GTPBP6	splice_region_variant&intron_variant	Dura AdCa
chrX	1191074	C	T	0.872	181	PASS	CRLF2	synonymous_variant	Dura AdCa
chrX	1191089	A	G	0.885	174	PASS	CRLF2	synonymous_variant	Dura AdCa
chrX	2859990	A	G	0.993	220	PASS	GYG2	synonymous_variant	Dura AdCa
chrX	9711568	G	C	0.029	89	PASS	TBL1X	intron_variant	Dura AdCa
chrX	16693206	GCAGTG(	G	0.051	166	PASS	CTPS2	stop_gained&frameshift_variant	Dura AdCa
chrX	49078148	A	G	0.066	62	PASS	WDR45	intron_variant	Dura AdCa
chrX	49162895	C	G	0.989	138	PASS	MAGIX	missense_variant	Dura AdCa
chrX	50192728	TCTGCA/	T	0.041	148	PASS	AKAP4	frameshift_variant	Dura AdCa
chrX	50368996	GGTTTC/	G	0.065	93	PASS	DGKK	stop_gained&inframe_insertion	Dura AdCa
chrX	53565023	A	G	0.986	91	PASS	HUWE1	intron_variant	Dura AdCa
chrX	65497250	T	C	0.053	118	PASS	ZC3H12B	missense_variant	Dura AdCa
chrX	73453605	G	T	0.92	99	PASS	CDX4	stop_gained	Dura AdCa
chrX	74591813	A	G	0.155	55	PASS	RLIM	missense_variant	Dura AdCa
chrX	74593081	A	G	0.973	51	PASS	RLIM	intron_variant	Dura AdCa
chrX	77998615	AAAACA	A	0.068	91	PASS	ATP7A	stop_gained&frameshift_variant	Dura AdCa
chrX	101656080	C	T	0.986	99	PASS	ARMCX2	synonymous_variant	Dura AdCa
chrX	103500463	T	G	0.992	137	PASS	RAB40A	missense_variant	Dura AdCa
chrX	103825482	CATGAA(	C	0.06	172	PASS	RAB9B	stop_gained&frameshift_variant	Dura AdCa
chrX	105905385	T	C	0.875	57	PASS	NRK	intron_variant	Dura AdCa
chrX	106205772	AACAAG/	A	0.068	80	PASS	PWWP3B	frameshift_variant	Dura AdCa
chrX	106205775	AGCAGT	A	0.066	84	PASS	PWWP3B	stop_gained&frameshift_variant	Dura AdCa
chrX	107597779	A	T	0.898	167	PASS	FRMPD3	missense_variant	Dura AdCa
chrX	107650066	C	T	0.059	52	PASS	PRPS1	3_prime_utr_variant	Dura AdCa
chrX	115191561	A	G	0.95	251	PASS	RBMXL3	missense_variant	Dura AdCa
chrX	136347662	G	C	0.061	100	PASS	ADGRG4	missense_variant	Dura AdCa
chrX	143631075	GATTGT(	G	0.085	85	PASS	SLITRK4	stop_gained&frameshift_variant	Dura AdCa
chrX	143631077	GAGCTT/	G	0.086	82	PASS	SLITRK4	stop_gained&frameshift_variant	Dura AdCa
chrX	150512284	C	T	0.987	104	PASS	MAMLD1	3_prime_utr_variant	Dura AdCa
chrX	152915171	C	CT	0.812	159	PASS	ZNF185	frameshift_variant	Dura AdCa
chrX	153420914	T	TTACGC(	0.02	329	PASS	ZFP92	inframe_deletion	Dura AdCa
chrX	153550226	A	G	0.037	170	PASS	ATP2B3	missense_variant	Dura AdCa
chrX	153955119	T	C	0.032	228	PASS	HCFC1	missense_variant	Dura AdCa
chrX	153958514	A	G	0.987	105	PASS	HCFC1	intron_variant	Dura AdCa
chrX	154413569	TAGGTG(	T	0.055	141	PASS	TAFAZZIN	splice_region_variant&intron_variant	Dura AdCa
chr1	183274	A	G	0.116	77	PASS	DDX11L17	intron_variant&non_coding_transcript_variant	Brain NEPC
chr1	184142	T	C	0.071	126	PASS	DDX11L17	non_coding_transcript_exon_variant	Brain NEPC
chr1	972913	T	A	0.938	52	PASS	PLEKHN1	missense_variant	Brain NEPC
chr1	1223422	G	A	0.921	117	PASS	SDF4	intron_variant	Brain NEPC
chr1	2408773	A	G	0.879	120	PASS	PEX10	synonymous_variant	Brain NEPC
chr1	12883168	TG	CA	0.636	213	PASS	PRAMEF4	missense_variant	Brain NEPC
chr1	13224919	A	T	0.305	779	PASS	PRAMEF18	missense_variant	Brain NEPC
chr1	13225068	G	A	0.243	1790	PASS	PRAMEF18	missense_variant	Brain NEPC
chr1	13225208	G	C	0.209	3596	PASS	PRAMEF18	synonymous_variant	Brain NEPC
chr1	13225514	C	T	0.25	109	PASS	PRAMEF18	intron_variant	Brain NEPC
chr1	13306781	G	A	0.162	586	PASS	PRAMEF33	missense_variant	Brain NEPC
chr1	13318650	G	A	0.236	321	PASS	PRAMEF15	synonymous_variant	Brain NEPC
chr1	16646619	A	AGCCAT(	0.132	1401	PASS	CROCCP2	intron_variant&non_coding_transcript_variant	Brain NEPC
chr1	16761036	A	G	0.185	1264	PASS	CROCC	intron_variant&non_coding_transcript_variant	Brain NEPC
chr1	26166079	A	G	0.426	240	PASS	C1orf232	missense_variant	Brain NEPC
chr1	33569487	G	A	0.445	581	PASS	CSMD2	missense_variant	Brain NEPC
chr1	36308186	A	G	0.47	204	PASS	SH3D21	missense_variant	Brain NEPC
chr1	42521285	C	T	0.899	64	PASS	CCDC30	intron_variant	Brain NEPC
chr1	43338669	A	G	0.065	1245	PASS	MPL	missense_variant	Brain NEPC
chr1	44139048	TCTGGTT	T	0.998	944	PASS	KLF18	inframe_insertion	Brain NEPC
chr1	44139334	A	G	0.073	1289	PASS	KLF18	synonymous_variant	Brain NEPC
chr1	44139841	G	A	0.038	1318	PASS	KLF18	synonymous_variant	Brain NEPC
chr1	55092049	C	A	0.913	109	PASS	USP24	synonymous_variant	Brain NEPC
chr1	74612659	T	C	0.085	809	PASS	ERICH3	missense_variant	Brain NEPC
chr1	81907118	G	A	0.325	1101	PASS	ADGRL2	missense_variant	Brain NEPC
chr1	99712018	T	C	0.458	204	PASS	FRRS1	intron_variant	Brain NEPC
chr1	111231179	C	T	0.538	358	PASS	CHI3L2	intron_variant	Brain NEPC
chr1	120543014	C	T	0.441	523	PASS	.	splice_donor_region_variant&intron_variant&non_codin	Brain NEPC
chr1	120890143	G	A	0.029	1685	PASS	PPIAL4A	missense_variant	Brain NEPC

chr1	143796246	C	T	0.992	164	PASS	LINC02591	non_coding_transcript_exon_variant	Brain NEPC
chr1	145241802	C	T	0.621	840	PASS	PPIAL4D	missense_variant	Brain NEPC
chr1	145292353	C	T	0.163	327	PASS	NBPF20	intron_variant	Brain NEPC
chr1	145588056	G	C	0.026	632	PASS	NBPF25P	non_coding_transcript_exon_variant	Brain NEPC
chr1	146622487	C	G	0.389	149	PASS	.	non_coding_transcript_exon_variant	Brain NEPC
chr1	147631053	G	C	0.394	132	PASS	ACP6	stop_lost	Brain NEPC
chr1	147968240	A	G	0.458	109	PASS	GPR89B	intron_variant	Brain NEPC
chr1	148572642	C	T	0.083	209	PASS	NBPF14	intron_variant	Brain NEPC
chr1	149176847	C	T	0.486	54	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr1	151368992	T	C	0.413	365	PASS	SELENBP1	intron_variant	Brain NEPC
chr1	152213623	T	C	0.65	489	PASS	HRNR	missense_variant	Brain NEPC
chr1	152214592	T	G	0.097	3669	PASS	HRNR	missense_variant	Brain NEPC
chr1	152219783	C	T	0.163	1887	PASS	HRNR	missense_variant	Brain NEPC
chr1	157831950	C	G	0.18	222	PASS	CD5L	3_prime_utr_variant	Brain NEPC
chr1	159066010	C	G	0.448	881	PASS	AIM2	missense_variant	Brain NEPC
chr1	160031429	C	A	0.526	168	PASS	PIGM	missense_variant	Brain NEPC
chr1	160195116	T	C	0.484	323	PASS	CASQ1	synonymous_variant	Brain NEPC
chr1	160752273	TG	CA	0.436	323	PASS	SLAMF7	intron_variant	Brain NEPC
chr1	171185664	A	G	0.57	175	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr1	174220968	A	G	0.529	159	PASS	RABGAP1L	splice_region_variant&splice_polypyrimidine_tract_vari	Brain NEPC
chr1	205984165	T	G	0.995	311	PASS	RAB7B	intron_variant	Brain NEPC
chr1	212386985	A	G	0.392	486	PASS	PACC1	synonymous_variant	Brain NEPC
chr1	220599753	G	A	0.539	85	PASS	MARK1	intron_variant	Brain NEPC
chr1	224191000	G	C	0.191	138	PASS	DEGS1	intron_variant	Brain NEPC
chr1	243165585	T	G	0.22	545	PASS	CEP170	stop_gained	Brain NEPC
chr1	243172878	T	C	0.232	112	PASS	CEP170	intron_variant	Brain NEPC
chr1	248453100	A	G	0.201	1776	PASS	OR2T2	synonymous_variant	Brain NEPC
chr1	248453107	T	C	0.201	1789	PASS	OR2T2	missense_variant	Brain NEPC
chr2	17714908	T	C	0.464	453	PASS	SMC6	synonymous_variant	Brain NEPC
chr2	25130488	C	A	0.497	492	PASS	EFR3B	intron_variant	Brain NEPC
chr2	27206532	T	C	0.481	433	PASS	SLC5A6	splice_region_variant&synonymous_variant	Brain NEPC
chr2	31178617	G	T	0.527	329	PASS	CAPN14	intron_variant	Brain NEPC
chr2	43801586	A	G	0.476	219	PASS	DYNC2LI1	intron_variant	Brain NEPC
chr2	63856871	A	G	0.862	107	PASS	UGP2	intron_variant	Brain NEPC
chr2	69479044	A	C	0.105	165	PASS	AAK1	missense_variant	Brain NEPC
chr2	74459919	T	C	0.924	175	PASS	WBP1	synonymous_variant	Brain NEPC
chr2	75646803	G	C	0.926	135	PASS	MRPL19	5_prime_utr_variant	Brain NEPC
chr2	89221621	A	T	0.498	204	PASS	IGKV2-28	downstream_gene_variant	Brain NEPC
chr2	89640376	T	C	0.205	459	PASS	KMT2CP4	intron_variant&non_coding_transcript_variant	Brain NEPC
chr2	97208411	A	G	0.158	81	PASS	ANKRD36	intron_variant	Brain NEPC
chr2	97549630	A	G	0.21	173	PASS	ANKRD36B	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr2	111123759	A	C	0.544	561	PASS	BCL2L11	missense_variant	Brain NEPC
chr2	111150001	A	G	0.498	3168	PASS	MIR4435-2HG	intron_variant&non_coding_transcript_variant	Brain NEPC
chr2	111150163	G	T	0.502	3119	PASS	MIR4435-2HG	intron_variant&non_coding_transcript_variant	Brain NEPC
chr2	113443854	A	G	0.147	118	PASS	ZNG1B	missense_variant	Brain NEPC
chr2	121732050	C	A	0.965	372	PASS	NIFK	intron_variant	Brain NEPC
chr2	134936927	G	T	0.044	446	PASS	CCNT2	synonymous_variant	Brain NEPC
chr2	138671160	C	T	0.059	605	PASS	NXPH2	missense_variant	Brain NEPC
chr2	148483570	C	T	0.957	634	PASS	MBD5	synonymous_variant	Brain NEPC
chr2	163611058	T	C	0.503	593	PASS	FIGN	synonymous_variant	Brain NEPC
chr2	171028370	T	A	0.368	277	PASS	TLK1	missense_variant	Brain NEPC
chr2	181898985	C	A	0.671	86	PASS	ITPRID2	intron_variant	Brain NEPC
chr2	197470105	A	G	0.314	619	PASS	COQ10B	synonymous_variant	Brain NEPC
chr2	203351532	GT	G	0.865	189	PASS	ABI2	intron_variant	Brain NEPC
chr2	232381426	T	C	0.407	365	PASS	ALPP	intron_variant	Brain NEPC
chr3	11017287	G	A	0.492	818	PASS	SLC6A1	missense_variant	Brain NEPC
chr3	12004864	G	C	0.545	54	PASS	SYN2	missense_variant	Brain NEPC
chr3	13503039	A	G	0.443	236	PASS	HDAC11	intron_variant	Brain NEPC
chr3	14158878	C	G	0.513	1006	PASS	XPC	synonymous_variant	Brain NEPC
chr3	14178475	T	C	0.498	658	PASS	XPC	missense_variant	Brain NEPC
chr3	27287772	A	T	0.65	55	PASS	NEK10	intron_variant	Brain NEPC
chr3	27297207	C	T	0.475	677	PASS	NEK10	missense_variant	Brain NEPC
chr3	27344259	C	G	0.342	370	PASS	NEK10	intron_variant	Brain NEPC
chr3	32159585	T	G	0.436	288	PASS	GPD1L	missense_variant	Brain NEPC
chr3	33400153	G	A	0.474	109	PASS	UBP1	intron_variant	Brain NEPC
chr3	33842000	A	G	0.474	594	PASS	PDCD6IP	missense_variant	Brain NEPC
chr3	46673502	A	G	0.948	114	PASS	ALS2CL	intron_variant	Brain NEPC
chr3	47857472	C	G	0.857	235	PASS	MAP4	missense_variant	Brain NEPC
chr3	48381707	A	G	0.874	392	PASS	FBXW12	synonymous_variant	Brain NEPC
chr3	49005095	C	A	0.935	268	PASS	P4HTM	intron_variant	Brain NEPC
chr3	49375600	C	CA	0.059	1153	PASS	RHOA	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr3	50358224	A	G	0.952	252	PASS	TMEM115	synonymous_variant	Brain NEPC
chr3	50365459	A	G	0.975	272	PASS	CACNA2D2	missense_variant	Brain NEPC
chr3	51361872	T	A	0.952	345	PASS	DOCK3	missense_variant	Brain NEPC
chr3	57368206	C	T	0.919	94	PASS	DNAH12	synonymous_variant	Brain NEPC
chr3	57377088	G	A	0.928	251	PASS	DNAH12	synonymous_variant	Brain NEPC
chr3	57380252	A	G	0.939	78	PASS	DNAH12	intron_variant	Brain NEPC
chr3	72846298	C	CT	0.533	58	PASS	SHQ1	intron_variant	Brain NEPC
chr3	86968949	A	T	0.51	564	PASS	VGLL3	missense_variant	Brain NEPC
chr3	88139852	G	A	0.512	549	PASS	ZNF654	missense_variant	Brain NEPC
chr3	101671336	T	C	0.436	345	PASS	ZBTB11	missense_variant	Brain NEPC
chr3	108583144	A	C	0.417	70	PASS	CIP2A	intron_variant	Brain NEPC
chr3	124699935	A	G	0.504	522	PASS	KALRN	missense_variant	Brain NEPC
chr3	132691283	C	A	0.45	168	PASS	NPHP3	missense_variant	Brain NEPC
chr3	179973339	G	A	0.491	512	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr3	184038505	C	T	0.176	294	PASS	HTR3D	missense_variant	Brain NEPC

chr3	184038509	C	T	0.176	293	PASS	HTR3D	synonymous_variant	Brain NEPC
chr3	195618957	GA	AG	0.568	352	PASS	MUC20P1	non_coding_transcript_exon_variant	Brain NEPC
chr3	195740966	G	A	0.259	362	PASS	MUC20	downstream_gene_variant	Brain NEPC
chr3	195740982	T	C	0.243	279	PASS	MUC20	downstream_gene_variant	Brain NEPC
chr3	195781775	C	CGGTGA(	0.721	340	PASS	MUC4	inframe_deletion	Brain NEPC
chr3	195784172	C	T	0.224	3106	PASS	MUC4	missense_variant	Brain NEPC
chr3	195785472	A	G	0.323	2247	PASS	MUC4	synonymous_variant	Brain NEPC
chr3	195785502	GGAT	G	0.327	2329	PASS	MUC4	inframe_insertion	Brain NEPC
chr3	195786727	A	G	0.26	2603	PASS	MUC4	missense_variant	Brain NEPC
chr3	195788077	A	G	0.24	660	PASS	MUC4	missense_variant	Brain NEPC
chr3	195788085	G	C	0.742	723	PASS	MUC4	missense_variant	Brain NEPC
chr4	1214317	C	G	0.909	91	PASS	CTBP1	intron_variant	Brain NEPC
chr4	2198639	A	G	0.936	247	PASS	POLN	missense_variant	Brain NEPC
chr4	2250604	A	G	0.944	85	PASS	MXD4	synonymous_variant	Brain NEPC
chr4	2251199	A	C	0.928	119	PASS	MXD4	synonymous_variant	Brain NEPC
chr4	2931682	A	G	0.891	101	PASS	MFSD10	intron_variant	Brain NEPC
chr4	8612086	A	G	0.94	368	PASS	CPZ	synonymous_variant	Brain NEPC
chr4	9230471	A	C	0.096	3348	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr4	9230473	C	T	0.1	3298	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr4	9268697	T	C	0.086	188	PASS	USP17L22	missense_variant	Brain NEPC
chr4	10443362	G	A	0.939	572	PASS	ZNF518B	synonymous_variant	Brain NEPC
chr4	36092076	G	A	0.918	85	PASS	ARAP2	intron_variant	Brain NEPC
chr4	55080004	A	G	0.49	3074	PASS	KDR	synonymous_variant	Brain NEPC
chr4	70637844	T	G	0.448	522	PASS	ENAM	splice_donor_variant	Brain NEPC
chr4	73576589	C	G	0.034	311	PASS	RASSF6	intron_variant	Brain NEPC
chr4	74038340	A	T	0.441	516	PASS	CXCL3	missense_variant	Brain NEPC
chr4	75596341	T	C	0.892	115	PASS	CDKL2	splice_acceptor_variant	Brain NEPC
chr4	76740701	T	A	0.936	274	PASS	SHROOM3	missense_variant	Brain NEPC
chr4	86689645	A	C	0.895	253	PASS	PTPN13	intron_variant	Brain NEPC
chr4	86689656	A	G	0.898	260	PASS	PTPN13	intron_variant	Brain NEPC
chr4	94489017	G	A	0.897	274	PASS	PDLIM5	intron_variant	Brain NEPC
chr4	125434296	C	T	0.422	602	PASS	FAT4	missense_variant	Brain NEPC
chr4	150928642	A	T	0.489	78	PASS	LRBA	intron_variant	Brain NEPC
chr4	155710866	T	C	0.509	1004	PASS	GUCY1A1	missense_variant	Brain NEPC
chr5	181614	TG	CC	0.414	424	PASS	PLEKHG4B	missense_variant	Brain NEPC
chr5	878575	T	C	0.267	241	PASS	BRD9	intron_variant	Brain NEPC
chr5	1432496	G	A	0.513	220	PASS	SLC6A3	synonymous_variant	Brain NEPC
chr5	5239928	T	A	0.456	545	PASS	ADAMTS16	splice_donor_region_variant&intron_variant	Brain NEPC
chr5	32780689	G	C	0.479	555	PASS	NPR3	intron_variant	Brain NEPC
chr5	55220230	T	A	0.894	63	PASS	MCIDAS	3_prime_utr_variant	Brain NEPC
chr5	57214174	A	C	0.879	414	PASS	GPBP1	missense_variant	Brain NEPC
chr5	65609399	G	A	0.061	423	PASS	TRIM23	synonymous_variant	Brain NEPC
chr5	68296196	A	G	0.04	1474	PASS	PIK3R1	missense_variant	Brain NEPC
chr5	75029221	A	G	0.398	576	PASS	GCNT4	missense_variant	Brain NEPC
chr5	98863506	C	T	0.919	61	PASS	CHD1	synonymous_variant	Brain NEPC
chr5	111092331	T	C	0.079	172	PASS	.	upstream_gene_variant	Brain NEPC
chr5	140648249	G	A	0.059	156	PASS	IK	intron_variant	Brain NEPC
chr5	157288643	C	G	0.282	779	PASS	CYFIP2	intron_variant	Brain NEPC
chr5	159174135	A	G	0.343	439	PASS	RNF145	synonymous_variant	Brain NEPC
chr5	172968611	T	G	0.597	701	PASS	RPL26L1	intron_variant	Brain NEPC
chr5	176010999	C	T	0.204	474	PASS	THOC3	intron_variant	Brain NEPC
chr5	178147850	A	G	0.606	1142	PASS	RMND5B	missense_variant	Brain NEPC
chr5	179076409	T	G	0.62	1063	PASS	ZNF354C	intron_variant	Brain NEPC
chr6	147522	A	G	0.282	265	PASS	SEPTIN14P6	upstream_gene_variant	Brain NEPC
chr6	4125973	T	C	0.44	338	PASS	ECI2	intron_variant	Brain NEPC
chr6	4996429	A	C	0.514	165	PASS	RPP40	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr6	25777988	T	C	0.45	506	PASS	SLC17A4	missense_variant	Brain NEPC
chr6	30987289	A	ACCAGC/	0.015	1092	PASS	MUC21	inframe_deletion	Brain NEPC
chr6	31029723	AAGGCT(	A	0.543	1182	PASS	MUC22	inframe_insertion	Brain NEPC
chr6	31202450	GC	AG	0.516	326	PASS	HCG27	non_coding_transcript_exon_variant	Brain NEPC
chr6	31688737	T	C	0.467	273	PASS	ABHD16A	synonymous_variant	Brain NEPC
chr6	32029823	G	C	0.476	695	PASS	C4B	intron_variant	Brain NEPC
chr6	32554821	G	A	0.278	708	PASS	HLA-DRB6	non_coding_transcript_exon_variant	Brain NEPC
chr6	32554826	C	G	0.268	701	PASS	HLA-DRB6	non_coding_transcript_exon_variant	Brain NEPC
chr6	34417760	A	G	0.491	505	PASS	RPS10	intron_variant	Brain NEPC
chr6	34883049	C	G	0.287	161	PASS	TAF11	missense_variant	Brain NEPC
chr6	43013204	T	G	0.39	276	PASS	MEA1	missense_variant	Brain NEPC
chr6	47879234	A	T	0.487	1366	PASS	PTCHD4	missense_variant	Brain NEPC
chr6	63778108	C	T	0.091	417	PASS	EYS	missense_variant	Brain NEPC
chr6	117403216	T	C	0.064	1525	PASS	ROS1	missense_variant	Brain NEPC
chr6	117519881	T	C	0.897	354	PASS	DCBLD1	missense_variant	Brain NEPC
chr6	122451974	C	T	0.891	196	PASS	SERINC1	missense_variant	Brain NEPC
chr6	125889651	A	G	0.886	151	PASS	NCOA7	missense_variant	Brain NEPC
chr6	142133970	A	G	0.39	530	PASS	GJE1	missense_variant	Brain NEPC
chr6	163060783	T	A	0.132	430	PASS	PACRG	intron_variant	Brain NEPC
chr6	169667944	A	G	0.479	437	PASS	WDR27	intron_variant	Brain NEPC
chr7	2568893	A	G	0.917	83	PASS	IQCE	intron_variant	Brain NEPC
chr7	2712852	T	C	0.938	97	PASS	AMZ1	missense_variant	Brain NEPC
chr7	34969503	C	A	0.137	102	PASS	DPY19L1	missense_variant	Brain NEPC
chr7	34969508	A	G	0.141	110	PASS	DPY19L1	synonymous_variant	Brain NEPC
chr7	37225044	C	T	0.943	430	PASS	ELMO1	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr7	57132116	T	C	0.853	118	PASS	ZNF479	intron_variant	Brain NEPC
chr7	77953963	G	C	0.933	133	PASS	PHTF2	intron_variant	Brain NEPC
chr7	100682882	T	C	0.948	82	PASS	GIGYF1	intron_variant	Brain NEPC
chr7	100952493	G	A	0.404	476	PASS	MUC3A	synonymous_variant	Brain NEPC
chr7	100952498	T	C	0.398	464	PASS	MUC3A	missense_variant	Brain NEPC

chr7	100954571	C	G	0.332	416	PASS	MUC3A	missense_variant	Brain NEPC
chr7	100954574	C	G	0.326	407	PASS	MUC3A	missense_variant	Brain NEPC
chr7	111846967	A	G	0.964	154	PASS	DOCK4	intron_variant	Brain NEPC
chr7	128880045	A	C	0.113	119	PASS	KCP	missense_variant	Brain NEPC
chr7	130129605	C	T	0.037	150	PASS	KLHDC10	intron_variant	Brain NEPC
chr7	130192705	A	T	0.926	241	PASS	TMEM209	missense_variant	Brain NEPC
chr7	130549432	G	C	0.086	116	PASS	COPG2	intron_variant	Brain NEPC
chr7	130550642	T	C	0.052	219	PASS	COPG2	synonymous_variant	Brain NEPC
chr7	132164067	A	C	0.045	168	PASS	PLXNA4	intron_variant	Brain NEPC
chr7	142078849	T	C	0.854	855	PASS	MGAM	synonymous_variant	Brain NEPC
chr7	142085767	G	C	0.129	470	PASS	MGAM	intron_variant	Brain NEPC
chr7	142451194	CA	GG	0.232	650	PASS	TRBV6-5	missense_variant	Brain NEPC
chr7	142463547	G	C	0.122	257	PASS	TRBV5-4	missense_variant	Brain NEPC
chr7	142564042	T	C	0.923	746	PASS	TRBV12-4	synonymous_variant	Brain NEPC
chr7	142588240	A	G	0.932	252	PASS	TRBV14	synonymous_variant	Brain NEPC
chr7	142598094	T	C	0.952	280	PASS	TRBV16	intron_variant	Brain NEPC
chr7	142774511	T	C	0.403	919	PASS	PRSS2	3_prime_utr_variant	Brain NEPC
chr7	142774515	CA	TG	0.404	912	PASS	PRSS2	3_prime_utr_variant	Brain NEPC
chr7	142791704	A	C	0.097	360	PASS	TRBC1	missense_variant	Brain NEPC
chr7	142791707	C	G	0.108	368	PASS	TRBC1	missense_variant	Brain NEPC
chr7	142791866	A	G	0.172	377	PASS	TRBC1	synonymous_variant	Brain NEPC
chr7	142802530	T	C	0.949	241	PASS	TRBC2	3_prime_utr_variant	Brain NEPC
chr7	143183843	C	T	0.943	381	PASS	TAS2R39	missense_variant	Brain NEPC
chr7	143286052	G	A	0.9	70	PASS	TMEM139	missense_variant	Brain NEPC
chr7	149005223	A	G	0.097	102	PASS	PDIA4	synonymous_variant	Brain NEPC
chr7	149072336	T	C	0.907	206	PASS	ZNF786	missense_variant	Brain NEPC
chr7	149282310	A	C	0.868	85	PASS	ZNF783	synonymous_variant	Brain NEPC
chr7	149783037	T	C	0.955	265	PASS	SSPOP	intron_variant&non_coding_transcript_variant	Brain NEPC
chr7	149804049	A	G	0.939	71	PASS	SSPOP	non_coding_transcript_exon_variant	Brain NEPC
chr7	152181521	G	T	0.06	2029	PASS	KMT2C	synonymous_variant	Brain NEPC
chr7	152252528	A	G	0.922	1090	PASS	KMT2C	intron_variant	Brain NEPC
chr7	154944075	T	C	0.943	68	PASS	PAXIP1	3_prime_utr_variant	Brain NEPC
chr7	155739906	T	C	0.873	71	PASS	RBM33	synonymous_variant	Brain NEPC
chr8	166783	G	A	0.304	194	PASS	OR4F21	missense_variant	Brain NEPC
chr8	1680556	AT	GA	0.098	156	PASS	DLGAP2	intron_variant	Brain NEPC
chr8	3201560	T	A	0.853	100	PASS	CSMD1	intron_variant	Brain NEPC
chr8	20165160	T	C	0.942	86	PASS	SLC18A1	intron_variant	Brain NEPC
chr8	22227651	T	C	0.932	63	PASS	PHYHIP	intron_variant	Brain NEPC
chr8	30138778	A	G	0.889	106	PASS	MBOAT4	intron_variant	Brain NEPC
chr8	31080997	G	A	0.058	1289	PASS	WRN	missense_variant	Brain NEPC
chr8	37848719	G	C	0.421	332	PASS	BRF2	intron_variant	Brain NEPC
chr8	40786704	G	C	0.308	972	PASS	ZMAT4	intron_variant	Brain NEPC
chr8	42756343	G	A	0.629	1043	PASS	CHRNA6	synonymous_variant	Brain NEPC
chr8	124998624	A	G	0.582	200	PASS	SQLE	5_prime_utr_variant	Brain NEPC
chr8	131946634	C	G	0.533	748	PASS	EFR3A	splice_donor_variant	Brain NEPC
chr8	143274796	C	T	0.502	1159	PASS	GLI4	missense_variant	Brain NEPC
chr8	143606582	G	C	0.412	241	PASS	PYCR3	missense_variant	Brain NEPC
chr8	143858206	A	G	0.442	774	PASS	EPPK1	synonymous_variant	Brain NEPC
chr8	144264608	A	G	0.419	799	PASS	BOP1	synonymous_variant	Brain NEPC
chr8	144430589	T	C	0.245	226	PASS	TONSL	intron_variant	Brain NEPC
chr9	7011765	T	C	0.534	608	PASS	KDM4C	synonymous_variant	Brain NEPC
chr9	22451048	C	T	0.398	211	PASS	DMRTA1	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr9	33540187	TT	CA	0.053	50	PASS	ANKRD18B	missense_variant	Brain NEPC
chr9	41926666	A	G	0.288	444	PASS	CNTNAP3B	intron_variant	Brain NEPC
chr9	78317564	A	C	0.494	125	PASS	PSAT1	intron_variant	Brain NEPC
chr9	78317567	T	A	0.489	129	PASS	PSAT1	intron_variant	Brain NEPC
chr9	81992641	C	T	0.487	641	PASS	SPATA31D1	missense_variant	Brain NEPC
chr9	82058619	CA	GC	0.436	872	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr9	89386454	A	G	0.079	351	PASS	SEMA4D	synonymous_variant	Brain NEPC
chr9	104617172	G	A	0.495	330	PASS	OR13C9	downstream_gene_variant	Brain NEPC
chr9	114236902	A	C	0.125	57	PASS	COL27A1	intron_variant	Brain NEPC
chr9	128998146	C	T	0.459	715	PASS	NUP188	splice_region_variant&splice_polypyrimidine_tract_vari	Brain NEPC
chr9	130319410	G	A	0.983	80	PASS	HMCN2	intron_variant	Brain NEPC
chr9	130319644	A	G	0.503	175	PASS	HMCN2	missense_variant	Brain NEPC
chr9	130321760	G	A	0.536	162	PASS	HMCN2	intron_variant	Brain NEPC
chr9	130327557	C	T	0.529	109	PASS	HMCN2	intron_variant	Brain NEPC
chr9	130338375	G	A	0.434	163	PASS	HMCN2	intron_variant	Brain NEPC
chr9	130338512	G	A	0.532	127	PASS	HMCN2	intron_variant	Brain NEPC
chr9	133205969	G	T	0.18	449	PASS	OBP2B	intron_variant	Brain NEPC
chr9	136290477	G	A	0.984	89	PASS	CCDC187	intron_variant	Brain NEPC
chr9	136291438	T	C	0.5	224	PASS	CCDC187	missense_variant	Brain NEPC
chr9	136459582	T	C	0.518	199	PASS	SEC16A	intron_variant	Brain NEPC
chr9	136740862	C	T	0.482	394	PASS	LCN10	missense_variant	Brain NEPC
chr9	137064633	T	C	0.503	230	PASS	SAPCD2	3_prime_utr_variant	Brain NEPC
chr9	137213879	A	G	0.438	260	PASS	NDOR1	splice_donor_variant	Brain NEPC
chr9	137220533	T	C	0.477	378	PASS	RNF208	stop_gained	Brain NEPC
chr10	12117710	A	C	0.362	357	PASS	DHTKD1	missense_variant	Brain NEPC
chr10	19327707	A	T	0.508	404	PASS	MALRD1	intron_variant	Brain NEPC
chr10	25598926	G	A	0.449	704	PASS	GPR158	synonymous_variant	Brain NEPC
chr10	31908696	G	T	0.462	1278	PASS	ARHGAP12	missense_variant	Brain NEPC
chr10	47367976	T	C	0.94	354	PASS	ZNF488	missense_variant	Brain NEPC
chr10	52768241	C	T	0.071	774	PASS	MBL2	missense_variant	Brain NEPC
chr10	78029459	G	A	0.418	123	PASS	POLR3A	5_prime_utr_variant	Brain NEPC
chr10	86499769	C	G	0.945	230	PASS	WAPL	missense_variant	Brain NEPC
chr10	86924605	T	C	0.808	142	PASS	BMPR1A	3_prime_utr_variant	Brain NEPC
chr10	92291418	T	C	0.886	84	PASS	MARCHF5	5_prime_utr_variant	Brain NEPC

chr10	93325895	G	A	0.942	364	PASS	MYOF	synonymous_variant	Brain NEPC
chr10	101596654	G	C	0.871	196	PASS	DPCD	intron_variant	Brain NEPC
chr10	103590376	A	G	0.953	83	PASS	NEURL1	3_prime_utr_variant	Brain NEPC
chr10	110498227	A	G	0.477	191	PASS	DUSP5	missense_variant	Brain NEPC
chr10	120880780	T	A	0.487	196	PASS	WDR11	intron_variant	Brain NEPC
chr10	121482083	C	T	0.01	586	PASS	FGFR2	intron_variant	Brain NEPC
chr10	125852632	A	G	0.495	707	PASS	DHX32	missense_variant	Brain NEPC
chr10	133626722	C	G	0.383	566	PASS	FRG2B	missense_variant	Brain NEPC
chr11	372543	A	G	0.913	97	PASS	B4GALNT4	intron_variant	Brain NEPC
chr11	800835	T	C	0.928	73	PASS	PIDD1	missense_variant	Brain NEPC
chr11	940991	G	A	0.873	91	PASS	AP2A2	intron_variant	Brain NEPC
chr11	1013601	T	C	0.108	193	PASS	MUC6	missense_variant	Brain NEPC
chr11	1181260	T	C	0.988	147	PASS	MUC5AC	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr11	3683204	C	A	0.063	1207	PASS	NUP98	synonymous_variant	Brain NEPC
chr11	7000644	A	T	0.898	425	PASS	ZNF214	missense_variant	Brain NEPC
chr11	17926764	C	T	0.873	199	PASS	SERGEF	intron_variant	Brain NEPC
chr11	18348064	T	C	0.89	129	PASS	GTF2H1	intron_variant	Brain NEPC
chr11	18709691	G	A	0.94	102	PASS	IGSF22	splice_region_variant&splice_polypyrimidine_tract_vari	Brain NEPC
chr11	27057152	C	G	0.961	171	PASS	BBOX1-AS1	intron_variant&non_coding_transcript_variant	Brain NEPC
chr11	47441634	T	C	0.472	318	PASS	RAPSN	missense_variant	Brain NEPC
chr11	48245442	T	C	0.093	353	PASS	OR4X2	synonymous_variant	Brain NEPC
chr11	61102576	T	C	0.502	71	PASS	CD5	synonymous_variant	Brain NEPC
chr11	64287893	T	C	0.401	281	PASS	GPR137	missense_variant	Brain NEPC
chr11	67452275	A	C	0.458	125	PASS	GPR152	missense_variant	Brain NEPC
chr11	75268982	C	G	0.438	251	PASS	ARRB1	intron_variant	Brain NEPC
chr11	89782118	C	A	0.389	610	PASS	.	non_coding_transcript_exon_variant	Brain NEPC
chr11	89870756	C	T	0.166	597	PASS	TRIM64B	synonymous_variant	Brain NEPC
chr11	113931878	TG	CA	0.934	390	PASS	HTR3B	intron_variant	Brain NEPC
chr11	117280014	A	G	0.736	83	PASS	RNF214	intron_variant	Brain NEPC
chr12	66973	T	A	0.844	167	PASS	IQSEC3	missense_variant	Brain NEPC
chr12	5969435	C	G	0.841	86	PASS	VWF	intron_variant	Brain NEPC
chr12	6599800	A	G	0.033	2556	PASS	CHD4	synonymous_variant	Brain NEPC
chr12	8221906	A	G	0.987	113	PASS	FAM90A1	synonymous_variant	Brain NEPC
chr12	9115692	G	T	0.491	362	PASS	A2M	intron_variant	Brain NEPC
chr12	24818019	A	C	0.535	627	PASS	BCAT1	missense_variant	Brain NEPC
chr12	29439321	C	T	0.522	240	PASS	OVCH1-AS1	intron_variant&non_coding_transcript_variant	Brain NEPC
chr12	40515401	AA	GG	0.041	336	PASS	MUC19	intron_variant	Brain NEPC
chr12	49050016	A	G	0.938	1239	PASS	KMT2D	missense_variant	Brain NEPC
chr12	51251592	G	GA	0.325	81	PASS	SMAGP	intron_variant	Brain NEPC
chr12	52519021	T	C	0.035	477	PASS	KRT5	missense_variant	Brain NEPC
chr12	54182416	G	A	0.866	221	PASS	SMUG1	missense_variant	Brain NEPC
chr12	54508543	T	C	0.949	358	PASS	NCKAP1L	intron_variant	Brain NEPC
chr12	62104733	AA	CC	0.824	439	PASS	TAFA2	intron_variant	Brain NEPC
chr12	101338126	G	C	0.478	645	PASS	UTP20	synonymous_variant	Brain NEPC
chr12	101651384	AGAAGG	A	0.405	311	PASS	MYBPC1	stop_gained&frameshift_variant	Brain NEPC
chr12	108940930	C	T	0.455	141	PASS	SVOP	intron_variant	Brain NEPC
chr12	111520955	G	T	0.397	441	PASS	ATXN2	missense_variant	Brain NEPC
chr12	124314124	C	T	0.463	160	PASS	RFLNA	intron_variant	Brain NEPC
chr12	131982290	AT	CC	0.444	261	PASS	EP400	missense_variant	Brain NEPC
chr12	133010734	A	G	0.489	836	PASS	ZNF26	synonymous_variant	Brain NEPC
chr12	133100956	C	T	0.72	182	PASS	ZNF140	intron_variant	Brain NEPC
chr13	24764197	C	G	0.05	154	PASS	RNF17	5_prime_utr_variant	Brain NEPC
chr13	34541522	A	G	0.355	91	PASS	LINC00457	intron_variant&non_coding_transcript_variant	Brain NEPC
chr13	113433759	A	G	0.878	67	PASS	ADPRHL1	missense_variant	Brain NEPC
chr14	19097884	T	G	0.289	65	PASS	DUXAP9	intron_variant&non_coding_transcript_variant	Brain NEPC
chr14	23402776	A	G	0.038	248	PASS	MYH6	missense_variant	Brain NEPC
chr14	23417278	T	G	0.467	382	PASS	MYH7	stop_gained	Brain NEPC
chr14	23424064	G	A	0.493	643	PASS	MYH7	missense_variant	Brain NEPC
chr14	45032186	C	G	0.572	147	PASS	KLHL28	intron_variant	Brain NEPC
chr14	45164495	A	G	0.469	3217	PASS	FANCM	missense_variant	Brain NEPC
chr14	50613419	T	G	0.567	175	PASS	ATL1	intron_variant	Brain NEPC
chr14	50770406	T	G	0.142	2331	PASS	NIN	synonymous_variant	Brain NEPC
chr14	63317716	C	G	0.037	221	PASS	GPHB5	missense_variant	Brain NEPC
chr14	90304150	A	G	0.512	767	PASS	NRDE2	missense_variant	Brain NEPC
chr14	91729459	T	A	0.118	56	PASS	CATSPERB	stop_gained	Brain NEPC
chr14	93348008	T	C	0.08	916	PASS	UNC79	intron_variant	Brain NEPC
chr14	100567885	T	C	0.5	94	PASS	BEGAIN	intron_variant	Brain NEPC
chr14	104741279	T	C	0.477	127	PASS	ADSS1	intron_variant	Brain NEPC
chr14	104932945	C	A	0.443	214	PASS	PLD4	missense_variant	Brain NEPC
chr14	105625935	C	G	0.194	376	PASS	IGHG4	synonymous_variant	Brain NEPC
chr14	105707471	A	G	0.306	715	PASS	IGHA1	synonymous_variant	Brain NEPC
chr14	105767772	G	A	0.099	166	PASS	IGHG3	intron_variant	Brain NEPC
chr14	106012330	C	G	0.444	577	PASS	IGHV4-4	synonymous_variant	Brain NEPC
chr14	106062072	G	T	0.131	614	PASS	IGHV3-7	downstream_gene_variant	Brain NEPC
chr14	106062074	G	T	0.13	614	PASS	IGHV3-7	downstream_gene_variant	Brain NEPC
chr14	106062169	A	G	0.451	1791	PASS	IGHV3-7	synonymous_variant	Brain NEPC
chr14	106335083	C	T	0.317	5315	PASS	IGHV3-30	missense_variant	Brain NEPC
chr14	106349771	A	T	0.509	1182	PASS	IGHV4-31	5_prime_utr_variant	Brain NEPC
chr14	106592708	A	G	0.306	1637	PASS	IGHV3-53	synonymous_variant	Brain NEPC
chr14	106704050	T	C	0.182	284	PASS	IGHV1-68	non_coding_transcript_exon_variant	Brain NEPC
chr14	106704052	G	A	0.182	284	PASS	IGHV1-68	non_coding_transcript_exon_variant	Brain NEPC
chr15	21609551	T	G	0.845	81	PASS	OR1Q1BP	non_coding_transcript_exon_variant	Brain NEPC
chr15	22431965	T	G	0.187	179	PASS	.	non_coding_transcript_exon_variant	Brain NEPC
chr15	25736076	G	C	0.885	97	PASS	ATP10A	synonymous_variant	Brain NEPC
chr15	29124687	G	C	0.896	140	PASS	ENTREP2	missense_variant&splice_region_variant	Brain NEPC
chr15	32446493	A	G	0.326	126	PASS	GOLGA8O	missense_variant	Brain NEPC

chr15	34154595	T	C	0.938	166	PASS	KATNBL1	intron_variant	Brain NEPC
chr15	34254487	T	C	0.066	370	PASS	SLC12A6	missense_variant	Brain NEPC
chr15	40296272	T	C	0.898	74	PASS	PLCB2	intron_variant	Brain NEPC
chr15	54013596	A	T	0.952	417	PASS	UNC13C	missense_variant	Brain NEPC
chr15	61884130	T	C	0.938	101	PASS	VPS13C	missense_variant&splice_region_variant	Brain NEPC
chr15	64957167	C	T	0.977	50	PASS	ANKDD1A	synonymous_variant	Brain NEPC
chr15	69014683	CC	AG	0.921	160	PASS	NOX5	upstream_gene_variant	Brain NEPC
chr15	74619971	T	G	0.903	307	PASS	CLK3	intron_variant	Brain NEPC
chr15	79025348	A	G	0.885	162	PASS	RASGRF1	missense_variant	Brain NEPC
chr15	82343155	A	C	0.687	119	PASS	GOLGA6L10	missense_variant	Brain NEPC
chr15	82345980	GT	CC	0.341	234	PASS	GOLGA6L10	intron_variant	Brain NEPC
chr15	82431812	C	T	0.98	56	PASS	GOLGA6L9	intron_variant	Brain NEPC
chr15	82434266	AC	GT	0.186	316	PASS	GOLGA6L9	missense_variant	Brain NEPC
chr15	82524937	A	G	0.07	80	PASS	GOLGA6L17P	intron_variant&non_coding_transcript_variant	Brain NEPC
chr15	101287733	A	G	0.873	166	PASS	SNRPA1	intron_variant	Brain NEPC
chr15	101966111	G	C	0.143	75	PASS	WASH3P	non_coding_transcript_exon_variant	Brain NEPC
chr16	281826	C	G	0.507	126	PASS	ARHGDIG	missense_variant	Brain NEPC
chr16	2324392	T	C	0.475	89	PASS	ABCA3	intron_variant	Brain NEPC
chr16	8645986	CGCCTG(	C	0.996	468	PASS	METTL22	intron_variant	Brain NEPC
chr16	9764661	A	G	0.497	5288	PASS	GRIN2A	synonymous_variant	Brain NEPC
chr16	11999364	T	C	0.431	1408	PASS	SNX29	splice_donor_region_variant&intron_variant	Brain NEPC
chr16	14951909	T	C	0.322	1182	PASS	NPIPA1	missense_variant	Brain NEPC
chr16	14975345	C	T	0.079	411	PASS	PDXDC1	intron_variant	Brain NEPC
chr16	15104429	G	GCTGAG(	0.269	532	PASS	PDXDC1	intron_variant	Brain NEPC
chr16	15129957	T	C	0.207	160	PASS	PDXDC1	intron_variant	Brain NEPC
chr16	18347905	G	A	0.18	215	PASS	PKD1P4	non_coding_transcript_exon_variant	Brain NEPC
chr16	19642309	T	A	0.412	204	PASS	VPS35L	intron_variant	Brain NEPC
chr16	22534710	CCGAG	C	0.118	157	PASS	NPIPB5	frameshift_variant	Brain NEPC
chr16	22534712	G	T	0.118	157	PASS	NPIPB5	missense_variant	Brain NEPC
chr16	29485610	A	ACACAC	0.138	213	PASS	NPIPB12	frameshift_variant	Brain NEPC
chr16	29485618	G	GGGAGG	0.143	200	PASS	NPIPB12	frameshift_variant	Brain NEPC
chr16	31793797	T	A	0.573	204	PASS	KRBOX5	non_coding_transcript_exon_variant	Brain NEPC
chr16	50668036	T	C	0.433	336	PASS	.	non_coding_transcript_exon_variant	Brain NEPC
chr16	58284658	C	G	0.897	302	PASS	PRSS54	missense_variant	Brain NEPC
chr16	67660036	T	C	0.972	287	PASS	ACD	missense_variant	Brain NEPC
chr16	72104500	T	C	0.08	354	PASS	DHX38	synonymous_variant	Brain NEPC
chr16	83780017	T	C	0.915	222	PASS	CDH13	synonymous_variant	Brain NEPC
chr16	84000706	T	G	0.868	104	PASS	NECAB2	intron_variant	Brain NEPC
chr16	84489419	C	T	0.898	160	PASS	MEAK7	missense_variant	Brain NEPC
chr16	88951011	G	GCCTGG/	0.872	598	PASS	CBFA2T3	intron_variant	Brain NEPC
chr16	89285522	T	C	0.075	765	PASS	ANKRD11	synonymous_variant	Brain NEPC
chr17	138824	A	C	0.993	240	PASS	SCGB1C2	intron_variant	Brain NEPC
chr17	7421264	A	G	0.968	229	PASS	SPEM1	missense_variant	Brain NEPC
chr17	7667396	C	G	0.964	150	PASS	TP53	downstream_gene_variant	Brain NEPC
chr17	7675085	T	C	0.936	1649	PASS	TP53	missense_variant	Brain NEPC
chr17	9728413	T	C	0.975	455	PASS	USP43	missense_variant	Brain NEPC
chr17	10542822	A	C	0.066	68	PASS	MYH2	intron_variant	Brain NEPC
chr17	18091852	TG	CA	0.992	167	PASS	DRG2	intron_variant	Brain NEPC
chr17	18978657	T	C	0.969	491	PASS	FAM83G	missense_variant	Brain NEPC
chr17	28048003	A	G	0.426	243	PASS	NLK	intron_variant	Brain NEPC
chr17	28369358	G	C	0.443	431	PASS	VTN	missense_variant	Brain NEPC
chr17	36171845	A	G	0.302	88	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr17	36195196	A	G	0.65	191	PASS	CCL3L3	3_prime_utr_variant	Brain NEPC
chr17	36195296	G	A	0.288	612	PASS	CCL3L3	missense_variant	Brain NEPC
chr17	36195375	G	A	0.274	770	PASS	CCL3L3	missense_variant&splice_region_variant	Brain NEPC
chr17	36195866	C	T	0.336	1052	PASS	CCL3L3	synonymous_variant	Brain NEPC
chr17	36196527	G	A	0.995	304	PASS	CCL3L3	intron_variant	Brain NEPC
chr17	36211278	T	G	0.998	666	PASS	CCL4L2	intron_variant	Brain NEPC
chr17	36211979	C	T	0.992	187	PASS	CCL4L2	intron_variant	Brain NEPC
chr17	36212342	GA	CG	0.997	526	PASS	CCL4L2	missense_variant	Brain NEPC
chr17	36307282	A	T	0.247	137	PASS	.	splice_polypyrimidine_tract_variant&intron_variant&noi	Brain NEPC
chr17	36452733	A	G	0.436	166	PASS	TBC1D3JP	non_coding_transcript_exon_variant	Brain NEPC
chr17	37635608	T	A	0.4	513	PASS	DDX52	intron_variant	Brain NEPC
chr17	40390022	C	A	0.49	3523	PASS	TOP2A	synonymous_variant	Brain NEPC
chr17	40818851	AGCTGC(	A	0.446	151	PASS	KRT10	inframe_insertion	Brain NEPC
chr17	41140002	T	C	0.28	582	PASS	KRTAP4-6	synonymous_variant	Brain NEPC
chr17	41275814	T	G	0.058	683	PASS	KRTAP9-7	synonymous_variant	Brain NEPC
chr17	41567235	A	T	0.476	163	PASS	KRT9	splice_region_variant&3_prime_utr_variant	Brain NEPC
chr17	42329523	T	C	0.505	1522	PASS	STAT3	intron_variant	Brain NEPC
chr17	45547982	T	C	0.158	888	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr17	45547991	G	C	0.178	912	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr17	46259756	T	C	0.874	256	PASS	.	non_coding_transcript_exon_variant	Brain NEPC
chr17	46528798	A	G	0.098	293	PASS	ARL17A	intron_variant	Brain NEPC
chr17	56960853	C	A	0.943	362	PASS	COIL	missense_variant	Brain NEPC
chr17	63482589	T	C	0.967	455	PASS	ACE	synonymous_variant	Brain NEPC
chr17	64897294	G	A	0.127	178	PASS	LRRC37A3	5_prime_utr_variant	Brain NEPC
chr17	67138031	G	A	0.033	838	PASS	HELZ	synonymous_variant	Brain NEPC
chr17	69304746	T	C	0.07	84	PASS	ABCA5	missense_variant	Brain NEPC
chr17	73206291	A	C	0.054	419	PASS	COG1	intron_variant	Brain NEPC
chr17	75937609	G	C	0.034	552	PASS	FBF1	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr17	79784185	C	G	0.964	311	PASS	CBX2	missense_variant	Brain NEPC
chr17	82374399	A	T	0.957	97	PASS	UTS2R	synonymous_variant	Brain NEPC
chr18	26865550	G	T	0.867	115	PASS	AQP4-AS1	intron_variant&non_coding_transcript_variant	Brain NEPC
chr18	28147775	G	C	0.934	149	PASS	CDH2	missense_variant	Brain NEPC
chr18	31399595	G	T	0.878	381	PASS	DSG4	intron_variant	Brain NEPC
chr18	34882022	A	T	0.913	130	PASS	DTNA	intron_variant	Brain NEPC

chr18	46509716	T	C	0.833	276	PASS	LOXHD1	synonymous_variant	Brain NEPC
chr18	48252638	C	T	0.094	350	PASS	ZBTB7C	intron_variant	Brain NEPC
chr18	58919052	T	C	0.916	124	PASS	ZNF532	synonymous_variant	Brain NEPC
chr19	1622424	A	G	0.797	149	PASS	TCF3	splice_polypyrimidine_tract_variant&intron_variant	Brain NEPC
chr19	8510850	C	CCCGCG(	0.811	144	PASS	ZNF414	inframe_deletion&splice_region_variant	Brain NEPC
chr19	8891843	C	G	0.365	910	PASS	MUC16	missense_variant	Brain NEPC
chr19	8946501	T	G	0.484	882	PASS	MUC16	missense_variant	Brain NEPC
chr19	8946645	A	C	0.499	634	PASS	MUC16	missense_variant	Brain NEPC
chr19	9350640	G	C	0.173	104	PASS	.	upstream_gene_variant	Brain NEPC
chr19	9350742	A	C	0.196	258	PASS	.	upstream_gene_variant	Brain NEPC
chr19	9350743	G	GT	0.196	258	PASS	ZNF559	downstream_gene_variant	Brain NEPC
chr19	18668216	A	G	0.358	473	PASS	KLHL26	synonymous_variant	Brain NEPC
chr19	18938522	A	G	0.432	545	PASS	HOMER3	intron_variant	Brain NEPC
chr19	19505356	G	C	0.496	188	PASS	GATAD2A	missense_variant	Brain NEPC
chr19	21808896	A	G	0.359	489	PASS	ZNF43	missense_variant	Brain NEPC
chr19	35359288	A	G	0.229	592	PASS	FFAR3	missense_variant	Brain NEPC
chr19	37380192	A	G	0.41	1861	PASS	ZNF527	intron_variant	Brain NEPC
chr19	38950233	T	C	0.538	248	PASS	FBXO17	synonymous_variant	Brain NEPC
chr19	40370082	A	C	0.513	344	PASS	PLD3	intron_variant	Brain NEPC
chr19	40523598	A	C	0.04	147	PASS	SPTBN4	stop_gained	Brain NEPC
chr19	40778492	CA	TG	0.466	132	PASS	RAB4B	intron_variant	Brain NEPC
chr19	41579543	T	G	0.411	462	PASS	CEACAM21	missense_variant	Brain NEPC
chr19	44496520	C	A	0.533	99	PASS	ZNF180	intron_variant	Brain NEPC
chr19	48510162	A	G	0.532	279	PASS	LMTK3	synonymous_variant	Brain NEPC
chr19	49101346	T	C	0.502	309	PASS	SNRNP70	intron_variant	Brain NEPC
chr19	53183041	A	C	0.447	170	PASS	ZNF665	intron_variant	Brain NEPC
chr19	54220739	A	C	0.484	764	PASS	LILRB3	synonymous_variant	Brain NEPC
chr19	54222756	C	T	0.632	796	PASS	LILRB3	missense_variant	Brain NEPC
chr19	54222987	T	C	0.33	587	PASS	LILRB3	5_prime_utr_variant	Brain NEPC
chr19	54239882	A	C	0.186	230	PASS	RPS9	intron_variant&nmd_transcript_variant	Brain NEPC
chr19	54242117	C	T	0.482	740	PASS	LILRA6	missense_variant	Brain NEPC
chr19	54667677	G	A	0.128	405	PASS	LILRB4	missense_variant	Brain NEPC
chr19	54727771	T	C	0.449	825	PASS	KIR3DL3	synonymous_variant	Brain NEPC
chr19	54755120	T	G	0.315	712	PASS	KIR2DP1	intron_variant&non_coding_transcript_variant	Brain NEPC
chr19	54760492	AT	GC	0.491	788	PASS	KIR2DP1	non_coding_transcript_exon_variant	Brain NEPC
chr19	54773534	A	C	0.324	2963	PASS	KIR2DL1	missense_variant	Brain NEPC
chr19	54773593	T	G	0.306	2702	PASS	KIR2DL1	missense_variant	Brain NEPC
chr19	54773692	C	A	0.22	1149	PASS	KIR2DL1	intron_variant	Brain NEPC
chr19	54773699	G	A	0.223	1063	PASS	KIR2DL1	intron_variant	Brain NEPC
chr19	54788295	A	G	0.065	1376	PASS	KIR3DP1	non_coding_transcript_exon_variant	Brain NEPC
chr19	54848199	G	C	0.071	620	PASS	KIR2DS4	3_prime_utr_variant	Brain NEPC
chr19	55644655	T	C	0.039	144	PASS	ZNF581	synonymous_variant	Brain NEPC
chr19	57491772	TG	CA	0.058	168	PASS	ZNF419	intron_variant	Brain NEPC
chr20	1636481	G	A	0.057	1076	PASS	SIRPG	missense_variant	Brain NEPC
chr20	3693091	C	G	0.077	98	PASS	SIGLEC1	missense_variant	Brain NEPC
chr20	24665463	A	G	0.488	320	PASS	SYNDIG1	missense_variant	Brain NEPC
chr20	46022943	GGGA	G	0.943	82	PASS	SLC12A5	intron_variant	Brain NEPC
chr20	54476047	A	G	0.505	363	PASS	DOK5	intron_variant	Brain NEPC
chr20	56637826	A	G	0.489	674	PASS	TFAP2C	missense_variant	Brain NEPC
chr21	5033666	A	G	0.65	285	PASS	.	intergenic_variant	Brain NEPC
chr21	13046287	T	G	0.541	191	PASS	.	intron_variant&non_coding_transcript_variant	Brain NEPC
chr21	28931146	C	T	0.572	143	PASS	LTN1	intron_variant	Brain NEPC
chr21	45939993	A	G	0.494	118	PASS	PCBP3	intron_variant	Brain NEPC
chr22	17581464	T	G	0.94	231	PASS	SLC25A18	intron_variant	Brain NEPC
chr22	19851751	G	A	0.954	267	PASS	RTL10	missense_variant	Brain NEPC
chr22	19915739	C	G	0.948	112	PASS	TXNRD2	intron_variant	Brain NEPC
chr22	20703127	C	T	0.18	86	PASS	TMEM191A	splice_donor_5th_base_variant&intron_variant&non_co	Brain NEPC
chr22	20996080	T	C	0.065	593	PASS	LZTR1	synonymous_variant	Brain NEPC
chr22	22376327	T	C	0.374	353	PASS	IGLV5-45	missense_variant	Brain NEPC
chr22	22376333	G	A	0.382	353	PASS	IGLV5-45	missense_variant	Brain NEPC
chr22	25203792	A	G	0.94	241	PASS	CRYBB3	missense_variant	Brain NEPC
chr22	26622751	A	C	0.898	68	PASS	CRYBA4	intron_variant	Brain NEPC
chr22	31095586	A	G	0.914	266	PASS	SMTN	missense_variant	Brain NEPC
chr22	36935279	T	C	0.075	85	PASS	CSF2RB	intron_variant	Brain NEPC
chr22	42126611	G	C	0.034	365	PASS	CYP2D6	missense_variant	Brain NEPC
chr22	42129130	G	C	0.071	414	PASS	CYP2D6	synonymous_variant	Brain NEPC
chr22	42129950	C	A	0.106	55	PASS	CYP2D6	intron_variant	Brain NEPC
chrX	315221	C	T	0.959	324	PASS	GTPBP6	splice_region_variant&intron_variant	Brain NEPC
chrX	1191074	C	T	0.877	89	PASS	CRLF2	synonymous_variant	Brain NEPC
chrX	1191089	A	G	0.888	82	PASS	CRLF2	synonymous_variant	Brain NEPC
chrX	2859990	A	G	0.995	308	PASS	GYG2	synonymous_variant	Brain NEPC
chrX	33211248	A	C	0.979	73	PASS	DMD	intron_variant	Brain NEPC
chrX	44148818	T	C	0.836	84	PASS	EFHC2	missense_variant	Brain NEPC
chrX	49162895	C	G	0.986	115	PASS	MAGIX	missense_variant	Brain NEPC
chrX	53565023	A	G	0.992	173	PASS	HUWE1	intron_variant	Brain NEPC
chrX	73453605	G	T	0.936	157	PASS	CDX4	stop_gained	Brain NEPC
chrX	74591813	A	G	0.123	173	PASS	RLIM	missense_variant	Brain NEPC
chrX	74593081	A	G	0.99	140	PASS	RLIM	intron_variant	Brain NEPC
chrX	101656080	C	T	0.995	266	PASS	ARMCX2	synonymous_variant	Brain NEPC
chrX	103500463	T	G	0.994	171	PASS	RAB40A	missense_variant	Brain NEPC
chrX	105905385	T	C	0.899	192	PASS	NRK	intron_variant	Brain NEPC
chrX	107597779	A	T	0.913	237	PASS	FRMPD3	missense_variant	Brain NEPC
chrX	115191561	A	G	0.995	320	PASS	RBMXL3	missense_variant	Brain NEPC
chrX	150512284	C	T	0.986	95	PASS	MAMLD1	3_prime_utr_variant	Brain NEPC
chrX	152915171	C	CT	0.929	151	PASS	ZNF185	frameshift_variant	Brain NEPC
chrX	153958514	A	G	0.992	161	PASS	HCFC1	intron_variant	Brain NEPC

Supplementary Table 2a. Copy Number Variant calls when compared to primary for dura

Gene	Chromoso	Gene_start	Gene_end	Log2Ratio(DuratoPrimary)	Filter
A1BG	19	58345178	58353499	0.063781462	PASS
A1CF	10	50799409	50885675	-0.404852538	PASS
A2M	12	9067664	9116229	0.362961408	suppress_segment_too_large
A2ML1	12	8822472	8887001	0.362961408	suppress_segment_too_large
A3GALT2	1	33306766	33321098	0.033763446	PASS
A4GALT	22	42692112	42721298	-0.575930959	PASS
A4GNT	3	138123718	138132387	0.313454204	suppress_segment_too_large
AAAS	12	53307456	53324864	-0.202191512	PASS
AACS	12	125065379	125143333	0.202141228	PASS
AADAC	3	151814037	151828488	0.318278996	suppress_segment_too_large
AADACL2	3	151733916	151761339	0.318278996	suppress_segment_too_large
AADACL3	1	12716115	12728759	-0.415253068	PASS
AADACL4	1	12644547	12667086	0.003932739	PASS
AADAT	4	170060222	170091699	-0.011382299	PASS
AAGAB	15	67201033	67255195	-0.697600509	PASS
AAK1	2	69457997	69674349	-0.372959126	PASS
AAMDC	11	77821109	77918432	0.062969153	PASS
AAMP	2	218264123	218270257	0.025928102	PASS
AANAT	17	76453351	76470117	0.088516311	PASS
AAR2	20	36236459	36270918	-0.168668583	PASS
AARD	8	116938199	116944487	0.279445683	PASS
AARS	16	70252295	70289543	-0.371357732	PASS
AARS2	6	44299654	44313326	0.048820648	PASS
AARSD1	17	42950526	42964498	0.088516311	PASS
AASDH	4	56338287	56387508	-0.011382299	PASS
AASDHPP	11	106075501	106098710	-0.356188624	PASS
AASS	7	122075647	122144280	-0.388946609	PASS
AATF	17	36948875	37056871	0.060555011	PASS
AATK	17	81117295	81166077	0.088516311	PASS
ABAT	16	8674565	8784575	0.069936844	PASS
ABCA1	9	104781002	104928237	0.365190713	suppress_segment_too_large
ABCA10	17	69147214	69244846	0.088516311	PASS
ABCA12	2	214931542	215138428	0.025928102	PASS
ABCA13	7	48171458	48647496	-2.348494016	PASS
ABCA2	9	137007227	137028922	0.365190713	suppress_segment_too_large
ABCA3	16	2275881	2340746	0.069936844	PASS
ABCA4	1	93992835	94121132	0.033763446	PASS
ABCA5	17	69244311	69327244	0.088516311	PASS
ABCA6	17	69078702	69141888	0.088516311	PASS
ABCA7	19	1040101	1065572	0.079632875	PASS
ABCA8	17	68867292	68955392	0.088516311	PASS
ABCA9	17	68974488	69061064	0.088516311	PASS
ABCB1	7	87503633	87713323	-0.262778904	PASS
ABCB10	1	229516582	229558695	-0.256698369	PASS

ABCB11	2	168915498	169031324	0.039726562	PASS
ABCB4	7	87401697	87480435	-0.262778904	PASS
ABCB5	7	20615207	20777038	-0.69513118	PASS
ABCB6	2	219209766	219219017	0.025928102	PASS
ABCB7	23	75051554	75156732	-0.012567603	PASS
ABCB8	7	151028422	151047782	-0.388946609	PASS
ABCB9	12	122920951	122981649	0.202141228	PASS
ABCC1	16	15949577	16143074	0.069936844	PASS
ABCC10	6	43427366	43450430	0.048820648	PASS
ABCC11	16	48166910	48247568	0.069936844	PASS
ABCC12	16	48081006	48156018	0.069936844	PASS
ABCC2	10	99782640	99852594	-0.367947924	PASS
ABCC3	17	50634777	50692252	0.088516311	PASS
ABCC4	13	95019829	95301475	-0.390786075	PASS
ABCC5	3	183919934	184018015	0.318278996	suppress_segment_too_large
ABCC6	16	16148928	16223522	0.069936844	PASS
ABCC8	11	17392498	17476879	-0.405444717	PASS
ABCC9	12	21797401	21942529	0.362961408	suppress_segment_too_large
ABCD1	23	153724868	153744762	-0.012567603	PASS
ABCD2	12	39550033	39619751	-0.202191512	PASS
ABCD3	1	94418455	94518666	0.033763446	PASS
ABCD4	14	74285423	74303056	0.060212819	PASS
ABCE1	4	145097932	145129179	-0.011382299	PASS
ABCF1	6	30571376	30597179	0.048820648	PASS
ABCF2	7	151212490	151227230	-0.388946609	PASS
ABCF3	3	184186023	184194012	0.318278996	suppress_segment_too_large
ABCG1	21	42199689	42297244	-0.064425456	suppress_segment_too_large
ABCG2	4	88090264	88231322	-0.011382299	PASS
ABCG4	11	119149012	119162653	-0.356188624	PASS
ABCG5	2	43812472	43838865	0.040498426	PASS
ABCG8	2	43831942	43882987	0.040498426	PASS
ABHD1	2	27123789	27130812	0.040498426	PASS
ABHD10	3	111979010	111993363	0.313454204	suppress_segment_too_large
ABHD11	7	73736094	73738867	-0.262778904	PASS
ABHD12	20	25294743	25390983	-0.168668583	PASS
ABHD12B	14	50872160	50904970	0.060212819	PASS
ABHD13	13	108218379	108234255	-0.390786075	PASS
ABHD14A	3	51971426	51981199	-0.234617007	PASS
ABHD14A	3	51974706	51989183	-0.234617007	PASS
ABHD14B	3	51968510	51983409	-0.234617007	PASS
ABHD15	17	29560547	29567137	0.060555011	PASS
ABHD16A	6	31686949	31703444	0.048820648	PASS
ABHD16B	20	63861498	63862988	-0.168668583	PASS
ABHD17A	19	1876810	1885547	0.079632875	PASS
ABHD17B	9	71862452	71910931	0.365190713	suppress_segment_too_large
ABHD17C	15	80679684	80755621	-0.697600509	PASS

ABHD18	4	127965306	128039927	-0.011382299	PASS
ABHD2	15	89087459	89202360	-0.697600509	PASS
ABHD3	18	21650897	21704805	-0.376397843	PASS
ABHD4	14	22598237	22613215	0.060212819	PASS
ABHD5	3	43690108	43734371	-0.234617007	PASS
ABHD6	3	58237506	58295693	-0.234617007	PASS
ABHD8	19	17292131	17310236	0.093487731	suppress_segment_too_large
ABI1	10	26746593	26861087	0.039811807	PASS
ABI2	2	203328219	203447723	0.025928102	PASS
ABI3	17	49210227	49223225	0.088516311	PASS
ABI3BP	3	100749156	100993515	0.313454204	suppress_segment_too_large
ABL1	9	130713946	130887675	0.365190713	suppress_segment_too_large
ABL2	1	179099327	179229684	-0.027073548	PASS
ABLIM1	10	114431113	114685003	0.063874692	PASS
ABLIM2	4	7965310	8158832	0.279089364	PASS
ABLIM3	5	149141483	149260542	-0.293443042	PASS
ABO	9	133250401	133275219	0.365190713	suppress_segment_too_large
ABR	17	1003518	1229738	0.128406487	PASS
ABRA	8	106759483	106770245	0.279445683	PASS
ABRACL	6	139028682	139043302	-0.035448111	PASS
ABRAXAS	4	83459517	83523348	-0.011382299	PASS
ABRAXAS	10	124801785	124836670	0.063874692	PASS
ABT1	6	26596952	26600744	0.048820648	PASS
ABTB1	3	127672935	127680920	0.313454204	suppress_segment_too_large
ABTB2	11	34150988	34358008	-0.405444717	PASS
AC000120.	7	92112159	92179511	-0.262778904	PASS
AC000120.	7	92131774	92245924	-0.262778904	PASS
AC001226.	13	76992078	77129589	-0.390786075	PASS
AC002094.	17	28364288	28368012	0.060555011	PASS
AC002310.	16	30534227	30558279	0.069936844	PASS
AC002310.	16	30525923	30534852	0.069936844	PASS
AC002985.	19	18907013	18934397	0.093487731	suppress_segment_too_large
AC002996.	12	111753890	111791418	0.202141228	PASS
AC003002.	19	57363566	57398584	-0.180829161	PASS
AC003002.	19	57394183	57438457	-0.180829161	PASS
AC003002.	19	57389884	57419994	-0.180829161	PASS
AC003005.	19	57487718	57505381	-0.180829161	PASS
AC003006.	19	57682045	57753575	-0.180829161	PASS
AC003688.	17	7246829	7262089	0.128406487	PASS
AC004076.	19	57437970	57477536	-0.180829161	PASS
AC004080.	7	27163535	27180013	-0.69513118	PASS
AC004233.	16	2988256	3002016	0.069936844	PASS
AC004593.	7	29122340	29514667	-0.69513118	PASS
AC004687.	17	58345206	58417595	0.088516311	PASS
AC004691.	7	30852273	30923812	-0.69513118	PASS
AC004754.	16	249547	269943	0.069936844	PASS

AC004805.	17	65538102	65641033	0.088516311	PASS
AC004832.	22	30409255	30428990	-0.575930959	PASS
AC004922.	7	99325879	99394653	-0.262778904	PASS
AC004997.	22	30285238	30299482	-0.575930959	PASS
AC005020.	7	99558695	99607810	-0.262778904	PASS
AC005041.	2	74393836	74421662	-0.372959126	PASS
AC005154.	7	30497077	30550761	-0.69513118	PASS
AC005258.	19	2269525	2341172	0.079632875	PASS
AC005324.	17	15571491	15651653	-0.139031004	PASS
AC005324.	17	15699692	15744778	-0.139031004	PASS
AC005520.	14	73851971	73932278	0.060212819	PASS
AC005670.	17	46923133	47049932	0.088516311	PASS
AC005697.	17	27798806	27893365	0.060555011	PASS
AC005702.	17	59940908	59973101	0.088516311	PASS
AC005726.	17	28455752	28614197	0.060555011	PASS
AC005779.	19	45179822	45202444	0.14996833	PASS
AC005832.	12	4604944	4662643	-0.086128028	PASS
AC005833.	12	4649101	4774184	-0.086128028	PASS
AC005837.	17	76732978	76738522	0.088516311	PASS
AC005943.	19	1578339	1605445	0.079632875	PASS
AC006030.	2	74211604	74363377	-0.372959126	PASS
AC006059.	3	42705756	42804518	-0.234617007	PASS
AC006064.	12	6556886	6607367	-0.086128028	PASS
AC006254.	3	52813282	52835729	-0.234617007	PASS
AC006486.	19	42234583	42255132	0.093487731	suppress_segment_too_large
AC006518.	12	10881011	10884255	0.362961408	suppress_segment_too_large
AC006538.	19	2717769	2740048	0.079632875	PASS
AC006978.	7	30362400	30412502	-0.69513118	PASS
AC007040.	2	70939318	70995336	-0.372959126	PASS
AC007192.	19	18153158	18178117	0.093487731	suppress_segment_too_large
AC007240.	2	10122739	10199288	0.040498426	PASS
AC007326.	22	18906238	18947732	-0.575930959	PASS
AC007375.	14	77098311	77225462	-0.192197564	PASS
AC007731.	22	20429241	20446620	-0.575930959	PASS
AC007846.	17	5772926	6080792	0.128406487	PASS
AC007998.	18	35443871	35497940	-0.376397843	PASS
AC008012.	12	4273762	4405490	-0.086128028	PASS
AC008073.	2	24124366	24190436	0.040498426	PASS
AC008397.	19	18207961	18255419	0.093487731	suppress_segment_too_large
AC008403.	19	48465837	48472431	0.14996833	PASS
AC008481.	19	11466240	11505698	0.093487731	suppress_segment_too_large
AC008537.	19	40801297	40898282	0.093487731	suppress_segment_too_large
AC008575.	5	112827213	112867582	-0.293443042	PASS
AC008581.	5	77030902	77152155	-0.293443042	PASS
AC008676.	5	157341596	157460100	-0.150979337	PASS
AC008687.	19	49022953	49036895	0.14996833	PASS

AC008687.	19	49017496	49020523	0.14996833	PASS
AC008687.	19	49055793	49065076	0.14996833	PASS
AC008695.	5	131425891	131796983	-0.293443042	PASS
AC008750.	19	51350373	51368099	-0.016761391	PASS
AC008758.	19	12461559	12551474	0.093487731	suppress_segment_too_large
AC008758.	19	12379189	12401274	0.093487731	suppress_segment_too_large
AC008758.	19	12391949	12441082	0.093487731	suppress_segment_too_large
AC008758.	19	12433103	12484816	0.093487731	suppress_segment_too_large
AC008763.	19	7629796	7643048	0.079632875	PASS
AC008763.	19	7678501	7682854	0.079632875	PASS
AC008764.	19	16479067	16628204	0.093487731	suppress_segment_too_large
AC008764.	19	16577642	16660115	0.093487731	suppress_segment_too_large
AC008770.	19	12017888	12052967	0.093487731	suppress_segment_too_large
AC008770.	19	11925075	11979290	0.093487731	suppress_segment_too_large
AC008878.	19	7507052	7519622	0.079632875	PASS
AC008878.	19	7533595	7540059	0.079632875	PASS
AC008878.	19	7382834	7472477	0.079632875	PASS
AC008982.	19	38817471	38840178	0.093487731	suppress_segment_too_large
AC009086.	16	29663279	29695144	0.069936844	PASS
AC009119.	16	83908132	83951445	-0.371357732	PASS
AC009133.	16	29812261	29820092	0.069936844	PASS
AC009163.	16	75528532	75545428	-0.371357732	PASS
AC009163.	16	75412684	75464706	-0.371357732	PASS
AC009336.	2	176151085	176173097	0.039726562	PASS
AC009690.	15	72284727	72375981	-0.697600509	PASS
AC009690.	15	72266746	72319946	-0.697600509	PASS
AC009879.	8	66430185	66445324	-0.201142258	PASS
AC009879.	8	66432486	66518524	-0.201142258	PASS
AC010132.	7	42909273	42932174	-0.69513118	PASS
AC010197.	12	21536203	21657798	0.362961408	suppress_segment_too_large
AC010255.	5	122129622	122183949	-0.293443042	PASS
AC010319.	19	17436611	17460804	0.093487731	suppress_segment_too_large
AC010323.	19	8308283	8321379	0.079632875	PASS
AC010325.	19	50776141	50793142	-0.016761391	PASS
AC010326.	19	57876765	57916591	-0.180829161	PASS
AC010327.	19	55154757	55160671	0.121336758	PASS
AC010422.	19	12643831	12648397	0.093487731	suppress_segment_too_large
AC010422.	19	12664828	12669397	0.093487731	suppress_segment_too_large
AC010422.	19	12525720	12580975	0.093487731	suppress_segment_too_large
AC010422.	19	12668071	12681834	0.093487731	suppress_segment_too_large
AC010463.	19	17267418	17282966	0.093487731	suppress_segment_too_large
AC010487.	19	52880663	52962768	0.206912349	PASS
AC010522.	19	57819719	57858941	-0.180829161	PASS
AC010531.	16	87302876	87334273	-0.371357732	PASS
AC010542.	16	66469812	66517312	-0.371357732	PASS
AC010547.	16	71447600	71489311	-0.371357732	PASS

AC010615.	19	21405159	21491266	0.093487731	suppress_segment_too_large
AC010616.	19	41907705	41928516	0.093487731	suppress_segment_too_large
AC010616.	19	41956879	41994232	0.093487731	suppress_segment_too_large
AC010619.	19	49462752	49486231	0.14996833	PASS
AC010646.	19	17235940	17255448	0.093487731	suppress_segment_too_large
AC011005.	7	129126518	129130793	-0.388946609	PASS
AC011195.	17	58660424	58692018	0.088516311	PASS
AC011330.	15	43614208	43632283	-0.396255771	PASS
AC011448.	19	19516227	19536076	0.093487731	suppress_segment_too_large
AC011452.	19	49909501	49958391	-0.016761391	PASS
AC011455.	19	38915404	38949855	0.093487731	suppress_segment_too_large
AC011462.	19	41350853	41425001	0.093487731	suppress_segment_too_large
AC011473.	19	50996018	51009581	-0.016761391	PASS
AC011479.	19	38289151	38304910	0.093487731	suppress_segment_too_large
AC011498.	19	4528427	4540067	0.079632875	PASS
AC011499.	19	5784005	5785619	0.079632875	PASS
AC011511.	19	10305427	10316009	0.093487731	suppress_segment_too_large
AC011511.	19	10315471	10320678	0.093487731	suppress_segment_too_large
AC011530.	19	45779437	45785973	0.14996833	PASS
AC011604.	12	20815674	21090245	0.362961408	suppress_segment_too_large
AC012184.	16	70299194	70372582	-0.371357732	PASS
AC012213.	8	103398658	103501895	0.279445683	PASS
AC012254.	18	47108188	47176345	-0.376397843	PASS
AC012309.	19	37093019	37210512	0.093487731	suppress_segment_too_large
AC012476.	15	40695129	40732158	-0.396255771	PASS
AC012531.	12	53985845	54034888	-0.202191512	PASS
AC012651.	15	42348103	42412317	-0.396255771	PASS
AC013394.	15	92883413	92949230	-0.697600509	PASS
AC013470.	7	12469621	12542222	-0.69513118	PASS
AC013489.	15	88459501	88546585	-0.697600509	PASS
AC013717.	2	44168851	44320310	0.040498426	PASS
AC015688.	17	27623364	27640777	0.060555011	PASS
AC015802.	17	76563710	76570544	0.088516311	PASS
AC015813.	17	57989038	58007246	0.088516311	PASS
AC017083.	2	68131238	68261230	-0.372959126	PASS
AC018362.	15	42497395	42548786	-0.396255771	PASS
AC018512.	15	43772617	43799133	-0.396255771	PASS
AC018523.	11	14493783	14520344	-0.405444717	PASS
AC018554.	16	60358455	60359480	-0.371357732	PASS
AC018709.	4	186426546	186555328	-0.462744716	PASS
AC018755.	19	51612091	51646889	-0.016761391	PASS
AC019117.	7	17299295	17467234	-0.69513118	PASS
AC020636.	3	150882997	150941743	0.318278996	suppress_segment_too_large
AC020907.	19	35106510	35124297	0.093487731	suppress_segment_too_large
AC020909.	19	50415799	50428409	-0.016761391	PASS
AC020915.	19	58278966	58315197	0.063781462	PASS

AC020915.	19	58228914	58315183	0.063781462	PASS
AC020922.	19	55352301	55359516	0.121336758	PASS
AC021097.	7	151207837	151227166	-0.388946609	PASS
AC021097.	7	151207837	151210378	-0.388946609	PASS
AC021660.	3	98521133	98585498	0.313454204	suppress_segment_too_large
AC022335.	12	21047179	21176895	0.362961408	suppress_segment_too_large
AC022384.	3	10249372	10285796	0.311018244	suppress_segment_too_large
AC022400.	10	73796514	73811651	0.072405807	PASS
AC022414.	5	77086732	77427124	-0.293443042	PASS
AC022506.	12	57517712	57520480	-0.202191512	PASS
AC022826.	8	73688691	73878854	-0.201142258	PASS
AC023055.	12	55757275	55827546	-0.202191512	PASS
AC023509.	12	53506688	53625979	-0.202191512	PASS
AC024592.	19	5866171	5903787	0.079632875	PASS
AC025165.	12	57773028	57787046	-0.202191512	PASS
AC025263.	12	69801669	69855363	-0.202191512	PASS
AC025283.	16	3382113	3397745	0.069936844	PASS
AC025283.	16	3365099	3479550	0.069936844	PASS
AC026316.	3	170418868	170860380	0.318278996	suppress_segment_too_large
AC026398.	5	131807143	131994278	-0.293443042	PASS
AC026464.	16	69335276	69351730	-0.371357732	PASS
AC026464.	16	69335091	69356306	-0.371357732	PASS
AC026464.	16	69299682	69322700	-0.371357732	PASS
AC026464.	16	69328644	69334871	-0.371357732	PASS
AC026786.	12	133130984	133202369	0.270848837	PASS
AC026954.	17	7312661	7319174	0.128406487	PASS
AC027644.	7	66628958	66811189	-0.750061359	PASS
AC027796.	17	3585149	3636249	0.128406487	PASS
AC034102.	12	56101331	56109289	-0.202191512	PASS
AC036214.	8	79918860	80080775	0.279445683	PASS
AC037459.	8	22589274	22602084	-0.345962679	PASS
AC040162.	16	67929614	67936017	-0.371357732	PASS
AC046185.	17	63702845	63752097	0.088516311	PASS
AC048338.	12	122207779	122266423	0.202141228	PASS
AC055811.	17	17202649	17237185	0.024610076	PASS
AC058822.	4	53377839	54295272	-0.011382299	PASS
AC067752.	10	62520448	62672011	0.072405807	PASS
AC067968.	19	44025354	44087318	0.14996833	PASS
AC068234.	17	47253897	47344292	0.088516311	PASS
AC068533.	7	66087761	66152277	-0.750061359	PASS
AC068547.	2	151802651	151973949	-0.475215623	PASS
AC068580.	11	1734821	1763954	-0.333835828	PASS
AC068631.	3	186581995	186597103	0.318278996	suppress_segment_too_large
AC068775.	12	10412312	10436001	0.362961408	suppress_segment_too_large
AC068790.	12	123973944	124088594	0.202141228	PASS
AC068831.	15	90966190	91022566	-0.697600509	PASS

AC068896.	10	124617080	124791727	0.063874692	PASS
AC068946.	2	219075329	219170827	0.025928102	PASS
AC068946.	2	219209772	219222738	0.025928102	PASS
AC069257.	3	196248230	196318222	0.326834516	PASS
AC069368.	15	64841883	64930920	-0.697600509	PASS
AC069444.	3	119703076	119807570	0.313454204	suppress_segment_too_large
AC069503.	12	121888809	121921470	0.202141228	PASS
AC073082.	2	48632291	48755724	0.040498426	PASS
AC073111.	7	150368790	150396915	-0.388946609	PASS
AC073111.	7	150400702	150412470	-0.388946609	PASS
AC073283.	2	47065941	47176511	0.040498426	PASS
AC073508.	17	40627356	40665141	0.060555011	PASS
AC073610.	12	48921963	48939663	-0.202191512	PASS
AC073610.	12	48903503	48957365	-0.202191512	PASS
AC073612.	12	71674204	71698968	-0.202191512	PASS
AC073896.	12	56285916	56316059	-0.202191512	PASS
AC074143.	16	67163385	67165815	-0.371357732	PASS
AC078927.	12	66123917	66169985	-0.202191512	PASS
AC079447.	2	99141485	99322741	0.048238121	PASS
AC079594.	3	160227454	160449829	0.318278996	suppress_segment_too_large
AC083800.	3	119147375	119187807	0.313454204	suppress_segment_too_large
AC084337.	11	6481485	6508978	-0.405444717	PASS
AC087289.	17	75898645	75930129	0.088516311	PASS
AC087632.	15	64181180	64381440	-0.697600509	PASS
AC087721.	15	41284013	41380743	-0.396255771	PASS
AC090004.	3	14135217	14148252	0.311018244	suppress_segment_too_large
AC090227.	18	49795793	49837623	-0.376397843	PASS
AC090360.	18	80034346	80097088	-0.376397843	PASS
AC090517.	15	56652488	56918571	-0.697600509	PASS
AC090527.	15	45587351	45676314	-0.396255771	PASS
AC091057.	15	30624548	30685606	-0.396255771	PASS
AC091167.	15	90249556	90272208	-0.697600509	PASS
AC091167.	15	90266317	90314499	-0.697600509	PASS
AC091167.	15	90234200	90265462	-0.697600509	PASS
AC091551.	18	50968019	51058144	-0.376397843	PASS
AC091959.	5	146203550	146339251	-0.293443042	PASS
AC092017.	1	211082872	211188533	-0.256698369	PASS
AC092042.	3	42809446	43055871	-0.234617007	PASS
AC092073.	19	34396315	34409364	0.093487731	suppress_segment_too_large
AC092111.	12	8138140	8175320	-0.086128028	PASS
AC092143.	16	89919165	89936092	-0.371357732	PASS
AC092329.	19	23222755	23274221	0.093487731	suppress_segment_too_large
AC092442.	4	6064977	6070162	0.279089364	PASS
AC092587.	2	99154998	99195298	0.048238121	PASS
AC092647.	7	55887277	55955239	-0.750061359	PASS
AC092718.	16	81053587	81096296	-0.371357732	PASS

AC092718.	16	81022316	81096284	-0.371357732	PASS
AC092835.	2	95207535	95259774	0.048238121	PASS
AC093155.	1	86993009	87169204	0.033763446	PASS
AC093227.	19	37689865	37719188	0.093487731	suppress_segment_too_large
AC093423.	1	89633140	89933250	0.033763446	PASS
AC093512.	16	30053090	30070420	0.069936844	PASS
AC093525.	16	2513965	2527955	0.069936844	PASS
AC093525.	16	2496032	2520218	0.069936844	PASS
AC093668.	7	102541501	102592444	-0.388946609	PASS
AC093668.	7	102483344	102543764	-0.388946609	PASS
AC093668.	7	102538417	102543849	-0.388946609	PASS
AC093827.	4	86886472	86936178	-0.011382299	PASS
AC093899.	2	169479480	169525922	0.039726562	PASS
AC096887.	3	52969119	53099453	-0.234617007	PASS
AC097104.	12	56449700	56488170	-0.202191512	PASS
AC097625.	23	15561047	15675608	-0.012567603	PASS
AC097634.	3	70959226	71754229	-0.234617007	PASS
AC097636.	3	51798803	51830856	-0.234617007	PASS
AC097637.	3	52221081	52231190	-0.234617007	PASS
AC098484.	1	42767292	42794493	0.033763446	PASS
AC098582.	4	88523810	88649847	-0.011382299	PASS
AC098588.	4	144210701	145098174	-0.011382299	PASS
AC098650.	3	28349178	29767537	0.311018244	suppress_segment_too_large
AC098850.	17	16690261	16804453	0.024610076	PASS
AC099489.	16	11359845	11527245	0.069936844	PASS
AC099811.	17	42119674	42154916	0.060555011	PASS
AC099850.	17	59197566	59215226	0.088516311	PASS
AC100868.	8	132024238	132085655	0.113969953	PASS
AC104109.	5	134167170	134226071	-0.293443042	PASS
AC104151.	16	76553417	76819624	-0.371357732	PASS
AC104304.	3	46581150	46617226	-0.234617007	PASS
AC104389.	11	5254392	5678434	-0.957525224	PASS
AC104389.	11	5248270	5254783	-0.957525224	PASS
AC104452.	3	49416777	49429314	-0.234617007	PASS
AC104472.	3	155763043	155854442	0.318278996	suppress_segment_too_large
AC104532.	19	5904841	5914707	0.079632875	PASS
AC104581.	17	7925931	7930622	0.128406487	PASS
AC104662.	4	25160663	25277306	0.279089364	PASS
AC105052.	7	102582523	102642869	-0.388946609	PASS
AC105052.	7	102637049	102671641	-0.388946609	PASS
AC106774.	5	17491325	17491769	0.055007813	PASS
AC106886.	16	30704067	30745169	0.069936844	PASS
AC107871.	15	68184032	68229718	-0.697600509	PASS
AC107959.	8	23084403	23115536	-0.345962679	PASS
AC108488.	2	3531984	3547957	0.040498426	PASS
AC108941.	4	69810780	69847786	-0.011382299	PASS

AC109583.	3	46742092	46812558	-0.234617007	PASS
AC110275.	8	43018424	43077334	-0.201142258	PASS
AC112128.	3	113361901	113515151	0.313454204	suppress_segment_too_large
AC112229.	2	110402934	110473075	-0.010901494	PASS
AC112504.	3	141738474	141807919	-0.356957581	PASS
AC113348.	5	178694605	178729335	-0.150979337	PASS
AC113554.	17	63484823	63521848	0.088516311	PASS
AC114490.	1	34981533	35031741	0.033763446	PASS
AC114490.	1	34974356	34985313	0.033763446	PASS
AC115220.	7	63998874	64016130	-0.750061359	PASS
AC116366.	5	132410832	132646079	-0.293443042	PASS
AC117378.	12	56714612	56741535	-0.202191512	PASS
AC117457.	3	178419123	178843300	0.318278996	suppress_segment_too_large
AC118470.	1	247711813	247723764	-0.368111568	PASS
AC118549.	1	77562416	77683419	0.033763446	PASS
AC118553.	1	99970011	100083321	0.033763446	PASS
AC119396.	19	7348943	7383385	0.079632875	PASS
AC119674.	1	56173433	56524495	0.033763446	PASS
AC120057.	17	7240427	7244635	0.128406487	PASS
AC120114.	16	29817239	29830627	0.069936844	PASS
AC124312.	15	24955034	25000276	-0.396255771	PASS
AC126283.	4	109713916	109801999	-0.011382299	PASS
AC126755.	16	18358086	18379331	0.069936844	PASS
AC127029.	17	63917203	63931385	0.088516311	PASS
AC129492.	17	8150816	8162975	0.128406487	PASS
AC131160.	3	183815568	183884889	0.318278996	suppress_segment_too_large
AC134669.	17	31305213	31318831	0.060555011	PASS
AC134684.	8	7579644	7582653	-0.345962679	PASS
AC134980.	15	22015233	22095857	-0.750600437	PASS
AC135050.	16	31083439	31094956	0.069936844	PASS
AC135068.	15	21637909	21638992	-0.750600437	PASS
AC135068.	15	21651844	21652968	-0.750600437	PASS
AC135178.	17	8368638	8383187	0.128406487	PASS
AC136428.	16	33844784	33845229	0.069936844	PASS
AC137834.	12	57249609	57296484	-0.202191512	PASS
AC138696.	8	143247110	143276403	0.307788765	PASS
AC138811.	16	18788063	18801519	0.069936844	PASS
AC138894.	16	28456371	28492098	0.069936844	PASS
AC139491.	5	176063748	176126959	-0.150979337	PASS
AC139530.	17	81703371	81720539	0.088516311	PASS
AC140504.	16	15395754	15515348	0.069936844	PASS
AC142391.	5	139442316	139462707	-0.293443042	PASS
AC144573.	8	37934340	37965953	-0.201142258	PASS
AC233992.	8	144353228	144355609	0.307788765	PASS
AC235565.	23	102360395	102471812	-0.012567603	PASS
AC239799.	1	146113652	146229000	-0.157385092	PASS

AC243547.	1	145927258	145977811	-0.157385092	PASS
AC243756.	1	146344131	146344790	-0.157385092	PASS
AC243967.	19	41708612	41761282	0.093487731	suppress_segment_too_large
AC244197.	23	149482543	149533935	-0.012567603	PASS
AC244517.	5	141223372	141245861	-0.293443042	PASS
AC245033.	15	82536788	82573194	-0.697600509	PASS
AC245748.	19	44329695	44401608	0.14996833	PASS
AC253536.	22	23971378	23980469	-0.575930959	PASS
ACAA1	3	38103129	38137242	-0.234617007	PASS
ACAA2	18	49782167	49813960	-0.376397843	PASS
ACACA	17	37084988	37406818	0.060555011	PASS
ACACB	12	109116595	109268226	0.202141228	PASS
ACAD10	12	111686056	111757107	0.202141228	PASS
ACAD11	3	132558138	132660723	0.313454204	suppress_segment_too_large
ACAD8	11	134253495	134265855	-0.419612865	PASS
ACAD9	3	128879596	128916067	0.313454204	suppress_segment_too_large
ACADL	2	210187939	210225491	0.025928102	PASS
ACADM	1	75724347	75787575	0.033763446	PASS
ACADS	12	120725735	120740008	0.202141228	PASS
ACADSB	10	123008979	123058311	0.063874692	PASS
ACADVL	17	7217125	7225273	0.128406487	PASS
ACAN	15	88803442	88875354	-0.697600509	PASS
ACAP1	17	7336529	7351478	0.128406487	PASS
ACAP2	3	195274736	195443078	0.326834516	PASS
ACAP3	1	1292376	1309609	0.373964873	suppress_segment_too_large
ACAT1	11	108121516	108147776	-0.356188624	PASS
ACAT2	6	159760328	159779055	-0.035448111	PASS
ACBD3	1	226144679	226186730	-0.256698369	PASS
ACBD4	17	45132600	45144181	0.088516311	PASS
ACBD5	10	27195214	27242130	0.039811807	PASS
ACBD6	1	180269653	180502954	-0.027073548	PASS
ACBD7	10	15077523	15088776	0.039811807	PASS
ACCS	11	44065925	44084222	0.117376172	PASS
ACCSL	11	44047981	44059977	0.117376172	PASS
ACD	16	67657512	67660815	-0.371357732	PASS
ACE	17	63477061	63498380	0.088516311	PASS
ACE2	23	15561033	15602148	-0.012567603	PASS
ACER1	19	6306142	6333629	0.079632875	PASS
ACER2	9	19409059	19452020	-0.310444659	PASS
ACER3	11	76860867	77026797	0.062969153	PASS
ACHE	7	100889994	100896974	-0.262778904	PASS
ACIN1	14	23058564	23095614	0.060212819	PASS
ACKR1	1	159203307	159206500	-0.467855874	PASS
ACKR2	3	42804752	42887974	-0.234617007	PASS
ACKR3	2	236567787	236582358	0.025928102	PASS
ACKR4	3	132597237	132618967	0.313454204	suppress_segment_too_large

ACLY	17	41866908	41930542	0.060555011	PASS
ACMSD	2	134838547	134902034	-0.475215623	PASS
ACO1	9	32384603	32454769	-0.310444659	PASS
ACO2	22	41469125	41528989	-0.575930959	PASS
ACOD1	13	76948497	76958642	-0.390786075	PASS
ACOT1	14	73537114	73543794	0.060212819	PASS
ACOT11	1	54542257	54639192	0.033763446	PASS
ACOT12	5	81330005	81394179	-0.293443042	PASS
ACOT13	6	24667035	24705065	0.048820648	PASS
ACOT2	14	73567620	73575658	0.060212819	PASS
ACOT4	14	73591706	73596496	0.060212819	PASS
ACOT6	14	73610945	73619888	0.060212819	PASS
ACOT7	1	6264269	6394391	0.373964873	suppress_segment_too_large
ACOT8	20	45841721	45857406	-0.168668583	PASS
ACOT9	23	23702253	23766475	-0.012567603	PASS
ACOX1	17	75941507	75979363	0.088516311	PASS
ACOX2	3	58505136	58537319	-0.234617007	PASS
ACOX3	4	8366282	8440723	0.279089364	PASS
ACOXL	2	110732573	111118222	-0.010901494	PASS
ACP1	2	264140	278283	0.040498426	PASS
ACP2	11	47239302	47248906	0.117376172	PASS
ACP4	19	50790415	50795224	-0.016761391	PASS
ACP5	19	11574660	11579008	0.093487731	suppress_segment_too_large
ACP6	1	147629652	147670496	-0.157385092	PASS
ACP7	19	39083913	39111493	0.093487731	suppress_segment_too_large
ACPP	3	132317367	132368298	0.313454204	suppress_segment_too_large
ACR	22	50738196	50745334	-0.808211634	PASS
ACRBP	12	6638075	6647460	-0.086128028	PASS
ACRV1	11	125671522	125681123	-0.419612865	PASS
ACSBG1	15	78167468	78245688	-0.697600509	PASS
ACSBG2	19	6135247	6193094	0.079632875	PASS
ACSF2	17	50426158	50474845	0.088516311	PASS
ACSF3	16	89088375	89164121	-0.371357732	PASS
ACSL1	4	184755595	184826818	-0.462744716	PASS
ACSL3	2	222860934	222944639	0.025928102	PASS
ACSL4	23	109624244	109733403	-0.012567603	PASS
ACSL5	10	112374018	112428380	0.063874692	PASS
ACSL6	5	131949973	132012243	-0.293443042	PASS
ACSM1	16	20623237	20698890	0.069936844	PASS
ACSM2A	16	20451461	20487667	0.069936844	PASS
ACSM2B	16	20536226	20576427	0.069936844	PASS
ACSM3	16	20610243	20797581	0.069936844	PASS
ACSM4	12	7304284	7328724	-0.086128028	PASS
ACSM5	16	20409534	20441336	0.069936844	PASS
ACSM6	10	95194200	95228928	-0.39678585	PASS
ACSS1	20	25006230	25058980	-0.168668583	PASS

ACSS2	20	34872146	34927962	-0.168668583	PASS
ACSS3	12	80936414	81261205	0.202141228	PASS
ACTA1	1	229431245	229434098	-0.256698369	PASS
ACTA2	10	88935074	88991339	-1.64589449	suppress_large_homdel
ACTB	7	5527147	5563784	-0.69513118	PASS
ACTBL2	5	57480016	57482809	-0.293443042	PASS
ACTC1	15	34788095	34795726	-0.396255771	PASS
ACTG1	17	81509971	81523847	0.088516311	PASS
ACTG2	2	73892314	73919865	-0.372959126	PASS
ACTL10	20	33666498	33668525	-0.168668583	PASS
ACTL6A	3	179562880	179588408	0.318278996	suppress_segment_too_large
ACTL6B	7	100643097	100656461	-0.262778904	PASS
ACTL7A	9	108862266	108863759	0.365190713	suppress_segment_too_large
ACTL7B	9	108854589	108856967	0.365190713	suppress_segment_too_large
ACTL8	1	17755313	17827063	0.033763446	PASS
ACTL9	19	8697397	8698822	0.079632875	PASS
ACTN1	14	68874143	68979440	0.060212819	PASS
ACTN2	1	236686454	236764631	-0.256698369	PASS
ACTN3	11	66546395	66563329	0.182439925	suppress_segment_too_large
ACTN4	19	38647649	38731583	0.093487731	suppress_segment_too_large
ACTR10	14	58200080	58235636	0.060212819	PASS
ACTR1A	10	102461881	102502711	-0.367947924	PASS
ACTR1B	2	97655963	97664107	0.048238121	PASS
ACTR2	2	65227753	65271253	-0.372959126	PASS
ACTR3	2	113889960	113962596	-0.010901494	PASS
ACTR3B	7	152759749	152855378	-0.411415677	PASS
ACTR3C	7	150243916	150323725	-0.388946609	PASS
ACTR5	20	38748442	38772520	-0.168668583	PASS
ACTR6	12	100199122	100241865	0.202141228	PASS
ACTR8	3	53867066	53882202	-0.234617007	PASS
ACTRT1	23	128050962	128052398	-0.012567603	PASS
ACTRT2	1	3021483	3022903	0.373964873	suppress_segment_too_large
ACTRT3	3	169766921	169769895	0.318278996	suppress_segment_too_large
ACVR1	2	157736444	157875862	0.039726562	PASS
ACVR1B	12	51951667	51997078	-0.202191512	PASS
ACVR1C	2	157526767	157629005	0.039726562	PASS
ACVR2A	2	147844517	147930826	-0.475215623	PASS
ACVR2B	3	38453851	38493142	-0.234617007	PASS
ACVRL1	12	51906908	51923361	-0.202191512	PASS
ACY1	3	51983278	51989202	-0.234617007	PASS
ACY3	11	67642555	67650659	0.182439925	suppress_segment_too_large
ACYP1	14	75053221	75069483	-0.192197564	PASS
ACYP2	2	53970838	54305300	0.040498426	PASS
AD000671	19	35745678	35754519	0.093487731	suppress_segment_too_large
AD000671	19	35739252	35745432	0.093487731	suppress_segment_too_large
ADA	20	44619522	44652233	-0.168668583	PASS

ADA2	22	17178790	17258235	-0.575930959	PASS
ADAD1	4	122378966	122429802	-0.011382299	PASS
ADAD2	16	84191138	84197168	-0.371357732	PASS
ADAL	15	43330657	43354555	-0.396255771	PASS
ADAM10	15	58588807	58749978	-0.697600509	PASS
ADAM11	17	44759031	44781846	0.088516311	PASS
ADAM12	10	126012381	126388455	0.063874692	PASS
ADAM15	1	155050566	155062775	0.103015788	PASS
ADAM17	2	9488486	9556732	0.040498426	PASS
ADAM18	8	39584489	39730064	-0.201142258	PASS
ADAM19	5	157395534	157575775	-0.150979337	PASS
ADAM2	8	39743735	39838289	-0.201142258	PASS
ADAM20	14	70522358	70535015	0.060212819	PASS
ADAM21	14	70452157	70459899	0.060212819	PASS
ADAM22	7	87934143	88202889	-0.262778904	PASS
ADAM23	2	206443539	206621130	0.025928102	PASS
ADAM28	8	24294040	24359018	-0.345962679	PASS
ADAM29	4	174829668	174978180	-0.011382299	PASS
ADAM30	1	119893533	119896495	-0.157385092	PASS
ADAM32	8	39106990	39284911	-0.201142258	PASS
ADAM33	20	3667965	3682246	-0.168668583	PASS
ADAM7	8	24440930	24526970	-0.345962679	PASS
ADAM8	10	133262403	133276868	0.063874692	PASS
ADAM9	8	38996869	39105144	-0.201142258	PASS
ADAMDE(	8	24384285	24406013	-0.345962679	PASS
ADAMTS1	21	26835747	26845409	0.12860881	suppress_segment_too_large
ADAMTS1	19	8580242	8610735	0.079632875	PASS
ADAMTS1	5	33523535	33892192	0.055007813	PASS
ADAMTS1	9	133414358	133459402	0.365190713	suppress_segment_too_large
ADAMTS1	10	70672803	70762441	0.072405807	PASS
ADAMTS1	11	130448974	130476641	-0.419612865	PASS
ADAMTS1	5	5140330	5320304	0.055007813	PASS
ADAMTS1	15	99971589	100342005	-0.697600509	PASS
ADAMTS1	16	77247813	77435114	-0.371357732	PASS
ADAMTS1	5	129460265	129738683	-0.293443042	PASS
ADAMTS2	5	179110851	179345430	-0.150979337	PASS
ADAMTS2	12	43353866	43551921	-0.202191512	PASS
ADAMTS3	4	72280969	72569386	-0.011382299	PASS
ADAMTS4	1	161184308	161199056	-0.027073548	PASS
ADAMTS5	21	26917912	26966513	0.12860881	suppress_segment_too_large
ADAMTS6	5	65148736	65481920	-0.293443042	PASS
ADAMTS7	15	78759203	78811431	-0.697600509	PASS
ADAMTS8	11	130404925	130428993	-0.419612865	PASS
ADAMTS9	3	64515654	64688000	-0.234617007	PASS
ADAMTSI	9	17906563	18910950	-0.310444659	PASS
ADAMTSI	9	133532164	133575519	0.365190713	suppress_segment_too_large

ADAMTSI	15	83654086	84039842	-0.697600509	PASS
ADAMTSI	1	150549369	150560937	0.103015788	PASS
ADAMTSI	19	1505018	1513604	0.079632875	PASS
ADAP1	7	897901	955407	-0.69513118	PASS
ADAP2	17	30906344	30959322	0.060555011	PASS
ADAR	1	154582057	154628013	0.103015788	PASS
ADARB1	21	45073853	45226560	-0.064425456	suppress_segment_too_large
ADARB2	10	1177318	1737476	0.039811807	PASS
ADAT1	16	75596981	75623300	-0.371357732	PASS
ADAT2	6	143422832	143450673	-0.035448111	PASS
ADAT3	19	1905378	1913447	0.079632875	PASS
ADCK1	14	77800083	77935012	-0.192197564	PASS
ADCK2	7	140673153	140696261	-0.388946609	PASS
ADCK5	8	144373101	144393242	0.307788765	PASS
ADCY1	7	45574140	45723116	-0.69513118	PASS
ADCY10	1	167809388	167914215	-0.027073548	PASS
ADCY2	5	7396208	7830081	0.055007813	PASS
ADCY3	2	24819169	24919839	0.040498426	PASS
ADCY4	14	24318349	24335093	0.060212819	PASS
ADCY5	3	123282296	123449758	0.313454204	suppress_segment_too_large
ADCY6	12	48766194	48789037	-0.202191512	PASS
ADCY7	16	50246137	50318135	0.069936844	PASS
ADCY8	8	130780301	131042426	0.113969953	PASS
ADCY9	16	3953387	4116185	0.069936844	PASS
ADCYAP1	18	904943	912172	-0.052305056	suppress_segment_too_large
ADCYAP1	7	31052461	31111479	-0.69513118	PASS
ADD1	4	2843857	2930076	0.279089364	PASS
ADD2	2	70607618	70768225	-0.372959126	PASS
ADD3	10	109996368	110135565	0.063874692	PASS
ADGB	6	146598965	146815462	-0.035448111	PASS
ADGRA1	10	133070929	133131675	0.063874692	PASS
ADGRA2	8	37784191	37844896	-0.201142258	PASS
ADGRA3	4	22345071	22516054	0.279089364	PASS
ADGRB1	8	142449430	142545009	0.113969953	PASS
ADGRB2	1	31727117	31764893	0.033763446	PASS
ADGRB3	6	68635367	69389511	-0.368590549	PASS
ADGRD1	12	130953907	131141469	0.270848837	PASS
ADGRD2	9	124451425	124478589	0.365190713	suppress_segment_too_large
ADGRE1	19	6887566	6940459	0.079632875	PASS
ADGRE2	19	14732393	14778541	0.093487731	suppress_segment_too_large
ADGRE3	19	14619117	14690027	0.093487731	suppress_segment_too_large
ADGRE5	19	14380501	14408725	0.093487731	suppress_segment_too_large
ADGRF1	6	46997703	47042363	0.048820648	PASS
ADGRF2	6	47656436	47697797	0.048820648	PASS
ADGRF3	2	26308173	26346817	0.040498426	PASS
ADGRF4	6	47685864	47722021	0.048820648	PASS

ADGRF5	6	46852512	46954943	0.048820648	PASS
ADGRG1	16	57610652	57665580	-0.371357732	PASS
ADGRG2	23	18989309	19122637	-0.012567603	PASS
ADGRG3	16	57668187	57689378	-0.371357732	PASS
ADGRG4	23	136300963	136416888	-0.012567603	PASS
ADGRG5	16	57542421	57591681	-0.371357732	PASS
ADGRG6	6	142301854	142446266	-0.035448111	PASS
ADGRG7	3	100609589	100695479	0.313454204	suppress_segment_too_large
ADGRL1	19	14147743	14206187	0.093487731	suppress_segment_too_large
ADGRL2	1	81306160	81992436	0.033763446	PASS
ADGRL3	4	61201258	62078335	-0.011382299	PASS
ADGRL4	1	78889764	79006718	0.033763446	PASS
ADGRV1	5	90529344	91164437	-0.293443042	PASS
ADH1A	4	99276367	99291028	-0.011382299	PASS
ADH1B	4	99304964	99352760	-0.011382299	PASS
ADH1C	4	99336492	99353027	-0.011382299	PASS
ADH4	4	99123657	99157792	-0.011382299	PASS
ADH5	4	99070978	99088801	-0.011382299	PASS
ADH6	4	99202638	99219537	-0.011382299	PASS
ADH7	4	99412261	99435737	-0.011382299	PASS
ADHFE1	8	66432486	66468907	-0.201142258	PASS
ADI1	2	3497361	3519736	0.040498426	PASS
ADIG	20	38581195	38588463	-0.168668583	PASS
ADIPOQ	3	186842690	186858463	0.318278996	suppress_segment_too_large
ADIPOR1	1	202940823	202958572	-0.256698369	PASS
ADIPOR2	12	1688574	1788678	-0.086128028	PASS
ADIRF	10	86968192	86983934	-0.292453993	PASS
ADK	10	74151185	74709303	0.072405807	PASS
ADM	11	10304680	10307397	-0.405444717	PASS
ADM2	22	50481556	50486440	-0.808211634	PASS
ADM5	19	49688664	49690575	0.14996833	PASS
ADNP	20	50888916	50931421	-0.168668583	PASS
ADNP2	18	80109031	80147523	-0.376397843	PASS
ADO	10	62804857	62808483	0.072405807	PASS
ADORA1	1	203090654	203167405	-0.256698369	PASS
ADORA2A	22	24417879	24442360	-0.575930959	PASS
ADORA2B	17	15944917	15975746	0.024610076	PASS
ADORA3	1	111499429	111503760	0.033763446	PASS
ADPGK	15	72751369	72785846	-0.697600509	PASS
ADPRH	3	119579268	119589945	0.313454204	suppress_segment_too_large
ADPRHL1	13	113399610	113453524	-0.390786075	PASS
ADPRHL2	1	36088875	36093932	0.033763446	PASS
ADPRM	17	10697594	10711233	-0.139031004	PASS
ADRA1A	8	26748150	26867273	-0.345962679	PASS
ADRA1B	5	159865080	159972544	-0.150979337	PASS
ADRA1D	20	4220631	4249074	-0.168668583	PASS

ADRA2A	10	111077163	111080907	0.063874692	PASS
ADRA2B	2	96112875	96116245	0.048238121	PASS
ADRA2C	4	3766348	3768526	0.279089364	PASS
ADRB1	10	114044056	114046908	0.063874692	PASS
ADRB2	5	148825245	148828687	-0.293443042	PASS
ADRB3	8	37962991	37966965	-0.201142258	PASS
ADRM1	20	62302093	62308862	-0.168668583	PASS
ADSL	22	40346500	40390463	-0.575930959	PASS
ADSS	1	244408494	244452134	-0.368111568	PASS
ADSSL1	14	104724186	104747325	-0.192197564	PASS
ADTRP	6	11712054	11807046	0.048820648	PASS
AEBP1	7	44104361	44114562	-0.69513118	PASS
AEBP2	12	19404045	19720801	0.362961408	suppress_segment_too_large
AEN	15	88621296	88632282	-0.697600509	PASS
AES	19	3052910	3063107	0.079632875	PASS
AF241726.	23	37349330	38687674	-0.012567603	PASS
AFAP1	4	7758714	7939926	0.279089364	PASS
AFAP1L1	5	149271871	149341802	-0.293443042	PASS
AFAP1L2	10	114294824	114404756	0.063874692	PASS
AFDN	6	167826922	167972023	-0.035448111	PASS
AFF1	4	86935002	87141054	-0.011382299	PASS
AFF2	23	148500619	149000663	-0.012567603	PASS
AFF3	2	99545419	100142739	0.048238121	PASS
AFF4	5	132875379	132963634	-0.293443042	PASS
AFG1L	6	108294894	108526796	-0.368590549	PASS
AFG3L2	18	12328944	12377314	-0.052305056	suppress_segment_too_large
AFM	4	73481683	73504001	-0.011382299	PASS
AFMID	17	78187317	78207701	0.088516311	PASS
AFP	4	73431138	73456174	-0.011382299	PASS
AFTPH	2	64524305	64593005	-0.372959126	PASS
AGA	4	177430770	177442503	-0.011382299	PASS
AGAP1	2	235494089	236131800	0.025928102	PASS
AGAP2	12	57723761	57742157	-0.202191512	PASS
AGAP3	7	151085831	151144436	-0.388946609	PASS
AGAP4	10	45825594	45853875	-0.404852538	PASS
AGAP5	10	73674285	73698159	0.072405807	PASS
AGAP6	10	49982190	50010499	-0.404852538	PASS
AGAP9	10	47501854	47523638	-0.404852538	PASS
AGBL1	15	86079973	87029052	-0.697600509	PASS
AGBL2	11	47659591	47715389	0.117376172	PASS
AGBL3	7	134986508	135147963	-0.388946609	PASS
AGBL4	1	48532855	50023913	0.033763446	PASS
AGBL5	2	27042364	27070622	0.040498426	PASS
AGER	6	32180968	32184324	0.048820648	PASS
AGFG1	2	227472152	227561214	0.025928102	PASS
AGFG2	7	100539211	100568219	-0.262778904	PASS

AGGF1	5	77029251	77065234	-0.293443042	PASS
AGK	7	141551189	141655244	-0.388946609	PASS
AGL	1	99850084	99924023	0.033763446	PASS
AGMAT	1	15572353	15585110	0.033763446	PASS
AGMO	7	15200318	15562015	-0.69513118	PASS
AGO1	1	35869808	35930528	0.033763446	PASS
AGO2	8	140520156	140635619	0.113969953	PASS
AGO3	1	35930718	36072500	0.033763446	PASS
AGO4	1	35808172	35857890	0.033763446	PASS
AGPAT1	6	32168212	32178096	0.048820648	PASS
AGPAT2	9	136673143	136687423	0.365190713	suppress_segment_too_large
AGPAT3	21	43865186	43986536	-0.064425456	suppress_segment_too_large
AGPAT4	6	161129979	161274061	-0.035448111	PASS
AGPAT5	8	6708357	6759666	-0.345962679	PASS
AGPS	2	177392644	177559299	0.039726562	PASS
AGR2	7	16791811	16833433	-0.69513118	PASS
AGR3	7	16859405	16881987	-0.69513118	PASS
AGRN	1	1020123	1056118	0.373964873	suppress_segment_too_large
AGRP	16	67482571	67483813	-0.371357732	PASS
AGT	1	230702523	230714297	-0.256698369	PASS
AGTPBP1	9	85546539	85742029	0.365190713	suppress_segment_too_large
AGTR1	3	148697784	148743008	0.318278996	suppress_segment_too_large
AGTR2	23	116170722	116174972	-0.012567603	PASS
AGTRAP	1	11736084	11754802	0.373964873	suppress_segment_too_large
AGXT	2	240868479	240880502	0.025928102	PASS
AGXT2	5	34998101	35048135	0.055007813	PASS
AHCTF1	1	246839098	246931967	-0.368111568	PASS
AHCY	20	34280268	34311802	-0.168668583	PASS
AHCYL1	1	109984686	110023741	0.033763446	PASS
AHCYL2	7	129225023	129430211	-0.388946609	PASS
AHDC1	1	27534035	27604431	0.033763446	PASS
AHI1	6	135283532	135497776	-0.035448111	PASS
AHNAK	11	62433542	62556235	0.182439925	suppress_segment_too_large
AHNAK2	14	104937244	104978357	-0.192197564	PASS
AHR	7	16916359	17346152	-0.69513118	PASS
AHRR	5	304176	438291	0.055007813	PASS
AHSA1	14	77457870	77469474	-0.192197564	PASS
AHSG	3	186612923	186621318	0.318278996	suppress_segment_too_large
AHSP	16	31527864	31528803	0.069936844	PASS
AICDA	12	8602166	8612871	0.362961408	suppress_segment_too_large
AIDA	1	222668013	222713210	-0.256698369	PASS
AIF1	6	31615184	31617021	0.048820648	PASS
AIF1L	9	131096476	131123152	0.365190713	suppress_segment_too_large
AIFM1	23	130129362	130165887	-0.012567603	PASS
AIFM2	10	70098223	70132934	0.072405807	PASS
AIFM3	22	20965108	20981360	-0.575930959	PASS

AIG1	6	143060496	143340304	-0.035448111	PASS
AIM2	1	159062484	159147096	-0.467855874	PASS
AIMP1	4	106315544	106349226	-0.011382299	PASS
AIMP2	7	6009245	6023834	-0.69513118	PASS
AIP	11	67483041	67491103	0.182439925	suppress_segment_too_large
AIPL1	17	6393693	6435199	0.128406487	PASS
AIRE	21	44285838	44298648	-0.064425456	suppress_segment_too_large
AJAP1	1	4654732	4792534	0.373964873	suppress_segment_too_large
AJM1	9	136844415	136848801	0.365190713	suppress_segment_too_large
AJUBA	14	22971174	22982642	0.060212819	PASS
AK1	9	127866480	127877743	0.365190713	suppress_segment_too_large
AK2	1	33007940	33080996	0.033763446	PASS
AK3	9	4709559	4742043	-0.310444659	PASS
AK4	1	65147549	65232145	0.033763446	PASS
AK5	1	77282051	77559969	0.033763446	PASS
AK6	5	69350984	69370013	-0.293443042	PASS
AK7	14	96392111	96489427	-0.192197564	PASS
AK8	9	132725578	132878777	0.365190713	suppress_segment_too_large
AK9	6	109492856	109691217	-0.368590549	PASS
AKAIN1	18	5145285	5197503	-0.052305056	suppress_segment_too_large
AKAP1	17	57085092	57121349	0.088516311	PASS
AKAP10	17	19904302	19978343	0.024610076	PASS
AKAP11	13	42272153	42323267	-0.390786075	PASS
AKAP12	6	151239999	151358557	-0.035448111	PASS
AKAP13	15	85380571	85749358	-0.697600509	PASS
AKAP14	23	119895837	119920716	-0.012567603	PASS
AKAP17A	23	1591593	1602514	-0.012567603	PASS
AKAP2	9	110048598	110172512	0.365190713	suppress_segment_too_large
AKAP3	12	4615508	4649047	-0.086128028	PASS
AKAP4	23	50190768	50201013	-0.012567603	PASS
AKAP5	14	64465499	64474503	0.060212819	PASS
AKAP6	14	32329273	32837681	0.060212819	PASS
AKAP7	6	131135666	131283535	-0.458570262	PASS
AKAP8	19	15353385	15379798	0.093487731	suppress_segment_too_large
AKAP8L	19	15380048	15419141	0.093487731	suppress_segment_too_large
AKAP9	7	91940867	92110673	-0.262778904	PASS
AKIP1	11	8911139	8920084	-0.405444717	PASS
AKIRIN1	1	38991223	39006059	0.033763446	PASS
AKIRIN2	6	87675072	87702209	-0.368590549	PASS
AKNA	9	114334156	114394405	0.365190713	suppress_segment_too_large
AKNAD1	1	108815898	108858228	0.033763446	PASS
AKR1A1	1	45550543	45570049	0.033763446	PASS
AKR1B1	7	134442350	134459284	-0.388946609	PASS
AKR1B10	7	134527592	134541408	-0.388946609	PASS
AKR1B15	7	134549136	134579875	-0.388946609	PASS
AKR1C1	10	4963253	4983283	0.039811807	PASS

AKR1C2	10	4987400	5018031	0.039811807	PASS
AKR1C3	10	5035354	5107686	0.039811807	PASS
AKR1C4	10	5195462	5218949	0.039811807	PASS
AKR1C8P	10	5154140	5185187	0.039811807	PASS
AKR1D1	7	138002324	138117986	-0.388946609	PASS
AKR1E2	10	4786629	4848062	0.039811807	PASS
AKR7A2	1	19303965	19312146	0.033763446	PASS
AKR7A3	1	19282558	19289250	0.033763446	PASS
AKT1	14	104769349	104795751	-0.192197564	PASS
AKT1S1	19	49869033	49878459	0.14996833	PASS
AKT2	19	40230317	40285536	0.093487731	suppress_segment_too_large
AKT3	1	243488233	243851079	-0.648598641	PASS
AKTIP	16	53491040	53504411	-0.371357732	PASS
AL020996.	1	25811470	25823744	0.033763446	PASS
AL021546.	12	120438198	120460006	0.202141228	PASS
AL021997.	6	28267121	28281580	0.048820648	PASS
AL022238.	22	40346529	40410054	-0.575930959	PASS
AL022318.	22	39014363	39033276	-0.575930959	PASS
AL024498.	6	10747794	10930423	0.048820648	PASS
AL031281.	1	22025511	22101360	0.033763446	PASS
AL031315.	6	169419969	169702047	-0.035448111	PASS
AL031708.	16	1632259	1686715	0.069936844	PASS
AL031777.	6	26195595	26199293	0.048820648	PASS
AL031847.	1	6159430	6197757	0.373964873	suppress_segment_too_large
AL033529.	1	32465057	32600792	0.033763446	PASS
AL034430.	20	10413520	10431922	-0.168668583	PASS
AL034430.	20	10420546	10420737	-0.168668583	PASS
AL035078.	11	31812391	32104665	-0.405444717	PASS
AL035460.	20	2814968	2818066	-0.168668583	PASS
AL049557.	1	111722064	111755824	0.033763446	PASS
AL049629.	11	33698261	33722467	-0.405444717	PASS
AL049634.	20	1540144	1620009	-0.168668583	PASS
AL049650.	20	2467212	2508907	-0.168668583	PASS
AL049697.	6	87408012	87511634	-0.368590549	PASS
AL049779.	14	67659820	67690367	0.060212819	PASS
AL049839.	14	94592058	94624646	-0.192197564	PASS
AL049844.	6	143807092	143844617	-0.035448111	PASS
AL049844.	6	143857318	143938471	-0.035448111	PASS
AL080251.	1	18849273	18921121	0.033763446	PASS
AL096711.	6	127438406	127519001	-0.458570262	PASS
AL096814.	6	42155426	42163439	0.048820648	PASS
AL096870.	14	24332310	24337382	0.060212819	PASS
AL109811.	1	11012662	11030528	0.373964873	suppress_segment_too_large
AL109827.	20	35632340	35674544	-0.168668583	PASS
AL110118.	14	93184973	93218586	-0.192197564	PASS
AL117339.	10	38094368	38360098	0.039811807	PASS

AL117348.	1	225886696	225924278	-0.256698369	PASS
AL121594.	14	35122549	35317474	0.060212819	PASS
AL121722.	20	22560553	22584261	-0.168668583	PASS
AL121753.	20	35267885	35280043	-0.168668583	PASS
AL121758.	20	646626	675800	-0.168668583	PASS
AL121845.	20	63738270	63740398	-0.168668583	PASS
AL121845.	20	63708864	63739103	-0.168668583	PASS
AL121900.	20	18567453	18744216	-0.168668583	PASS
AL132671.	6	117318211	117573571	-0.368590549	PASS
AL132780.	14	22946270	22982258	0.060212819	PASS
AL133352.	10	100505628	100529881	-0.367947924	PASS
AL133353.	10	99651595	99732112	-0.367947924	PASS
AL133410.	9	35812960	35828732	-0.310444659	PASS
AL133500.	23	72301691	72572843	-0.012567603	PASS
AL135905.	6	63572012	63583587	0.048820648	PASS
AL136295.	14	24189157	24213473	0.060212819	PASS
AL136295.	14	24120956	24131829	0.060212819	PASS
AL136295.	14	24180395	24190416	0.060212819	PASS
AL136295.	14	24151218	24167402	0.060212819	PASS
AL136373.	1	46532166	46543969	0.033763446	PASS
AL136454.	1	192716132	192716653	-0.027073548	PASS
AL136531.	20	1317571	1393096	-0.168668583	PASS
AL138752.	9	37588413	38068687	-0.310444659	PASS
AL139011.	1	160216800	160285130	-0.027073548	PASS
AL139142.	1	173596060	173669837	-0.027073548	PASS
AL139300.	14	103562962	103685924	-0.192197564	PASS
AL139353.	14	31334312	31457441	0.060212819	PASS
AL157392.	10	13610047	13655929	0.039811807	PASS
AL157935.	9	127867850	127906022	0.365190713	suppress_segment_too_large
AL159163.	6	166858094	166956124	-0.035448111	PASS
AL160269.	9	96235331	96352058	0.365190713	suppress_segment_too_large
AL160272.	9	117704157	117877478	0.365190713	suppress_segment_too_large
AL162231.	9	34664163	34666112	-0.310444659	PASS
AL162231.	9	34646645	34657113	-0.310444659	PASS
AL162377.	13	51763951	51845159	-0.390786075	PASS
AL162417.	9	133098121	133163914	0.365190713	suppress_segment_too_large
AL163195.	14	20582892	20609795	0.060212819	PASS
AL163636.	14	20684587	20700576	0.060212819	PASS
AL353588.	6	44273194	44378957	0.048820648	PASS
AL355102.	14	96204844	96263929	-0.192197564	PASS
AL355312.	6	149817937	149896011	-0.035448111	PASS
AL355315.	10	97584374	97673910	-0.367947924	PASS
AL355916.	14	61529128	61657964	0.060212819	PASS
AL355987.	9	136738167	136748453	0.365190713	suppress_segment_too_large
AL355987.	9	136791379	136800595	0.365190713	suppress_segment_too_large
AL357673.	1	54132686	54200073	0.033763446	PASS

AL358075.	1	46043661	46176488	0.033763446	PASS
AL358113.	9	69035750	69255187	-0.310444659	PASS
AL358472.	1	153975850	153986246	0.103015788	PASS
AL358472.	1	153959151	153975887	0.103015788	PASS
AL359736.	13	23979700	24321031	-0.390786075	PASS
AL359922.	9	21802636	22032986	-0.310444659	PASS
AL360181.	10	133390834	133420495	0.063874692	PASS
AL365205.	6	41780349	41790141	0.048820648	PASS
AL365214.	6	112236806	112350094	-0.368590549	PASS
AL365232.	6	73209746	73263196	-0.368590549	PASS
AL365273.	10	95860548	95924844	-0.39678585	PASS
AL391650.	1	26169516	26171831	0.033763446	PASS
AL445238.	13	63832361	63833531	-0.390786075	PASS
AL445685.	1	52020153	52033350	0.033763446	PASS
AL445989.	13	63746741	63751080	-0.390786075	PASS
AL449266.	1	108837660	108963484	0.033763446	PASS
AL451062.	1	43650149	43931014	0.033763446	PASS
AL512428.	6	24797373	24809798	0.048820648	PASS
AL512506.	13	43883800	44028526	-0.390786075	PASS
AL512785.	1	162365407	162383531	-0.027073548	PASS
AL513165.	9	37512547	37592469	-0.310444659	PASS
AL583836.	10	94688154	94853073	-0.39678585	PASS
AL589666.	6	85557978	85615234	-0.368590549	PASS
AL590132.	1	210858125	211134146	-0.256698369	PASS
AL590764.	23	71103987	71111575	-0.012567603	PASS
AL591806.	1	160997957	161038962	-0.027073548	PASS
AL592490.	13	61409858	61427849	-0.390786075	PASS
AL603832.	1	112702614	112711433	0.033763446	PASS
AL645922.	6	31927698	31952048	0.048820648	PASS
AL645941.	6	32937364	32953122	0.048820648	PASS
AL662820.	6	33321386	33329286	0.048820648	PASS
AL662884.	6	32150495	32154373	0.048820648	PASS
AL662899.	6	31686962	31714072	0.048820648	PASS
AL662899.	6	31666102	31673546	0.048820648	PASS
AL669918.	6	32813767	32838822	0.048820648	PASS
AL672043.	1	46175486	46176478	0.033763446	PASS
AL672142.	9	128941478	128957021	0.365190713	suppress_segment_too_large
AL691442.	1	155063748	155086807	0.103015788	PASS
AL713999.	1	155169409	155187272	0.103015788	PASS
AL772284.	23	119073226	119076373	-0.012567603	PASS
AL807752.	9	137031241	137040436	0.365190713	suppress_segment_too_large
AL807752.	9	136977518	136985435	0.365190713	suppress_segment_too_large
AL845331.	2	94588522	94604573	-0.340781246	PASS
AL928654.	14	105487199	105492267	-0.192197564	PASS
AL929554.	9	137168854	137171984	0.365190713	suppress_segment_too_large
ALAD	9	113386317	113401333	0.365190713	suppress_segment_too_large

ALAS1	3	52198086	52214327	-0.234617007	PASS
ALAS2	23	55009055	55031064	-0.012567603	PASS
ALB	4	73397114	73421412	-0.011382299	PASS
ALCAM	3	105366909	105576900	0.313454204	suppress_segment_too_large
ALDH16A	19	49453169	49471048	0.14996833	PASS
ALDH18A	10	95605929	95656706	-0.39678585	PASS
ALDH1A1	9	72900662	73080442	0.365190713	suppress_segment_too_large
ALDH1A2	15	57953424	58497866	-0.697600509	PASS
ALDH1A3	15	100877714	100916626	-0.697600509	PASS
ALDH1B1	9	38392664	38398661	-0.310444659	PASS
ALDH1L1	3	126103562	126197994	0.313454204	suppress_segment_too_large
ALDH1L2	12	105019784	105084577	0.202141228	PASS
ALDH2	12	111766887	111817529	0.202141228	PASS
ALDH3A1	17	19737984	19748943	0.024610076	PASS
ALDH3A2	17	19648136	19677598	0.024610076	PASS
ALDH3B1	11	68008578	68029282	0.182439925	suppress_segment_too_large
ALDH3B2	11	67662162	67681200	0.182439925	suppress_segment_too_large
ALDH4A1	1	18871430	18902781	0.033763446	PASS
ALDH5A1	6	24494852	24537207	0.048820648	PASS
ALDH6A1	14	74056850	74084493	0.060212819	PASS
ALDH7A1	5	126531200	126595418	-0.293443042	PASS
ALDH8A1	6	134917390	134950122	-0.035448111	PASS
ALDH9A1	1	165662216	165698863	-0.027073548	PASS
ALDOA	16	30064164	30070457	0.069936844	PASS
ALDOB	9	101420578	101449664	0.365190713	suppress_segment_too_large
ALDOC	17	28573115	28577264	0.060555011	PASS
ALG1	16	5033923	5087379	0.069936844	PASS
ALG10	12	34022281	34029694	0.362961408	suppress_segment_too_large
ALG10B	12	38316578	38329728	0.362961408	suppress_segment_too_large
ALG11	13	52012398	52032171	-0.390786075	PASS
ALG12	22	49900229	49918458	-0.808211634	PASS
ALG13	23	111665811	111760649	-0.012567603	PASS
ALG14	1	94974407	95072945	0.033763446	PASS
ALG1L	3	125929275	125937039	0.313454204	suppress_segment_too_large
ALG1L2	3	130081831	130113227	0.313454204	suppress_segment_too_large
ALG2	9	99216426	99221956	0.365190713	suppress_segment_too_large
ALG3	3	184242301	184249548	0.318278996	suppress_segment_too_large
ALG5	13	36949775	37000261	-0.390786075	PASS
ALG6	1	63367575	63438562	0.033763446	PASS
ALG8	11	78100936	78139660	0.062969153	PASS
ALG9	11	111782195	111871581	-0.356188624	PASS
ALK	2	29192774	29921566	0.040498426	PASS
ALKAL1	8	52534037	52565507	-0.201142258	PASS
ALKAL2	2	279558	288851	0.040498426	PASS
ALKBH1	14	77672404	77708020	-0.192197564	PASS
ALKBH2	12	109088188	109093631	0.202141228	PASS

ALKBH3	11	43880811	43920266	0.117376172	PASS
ALKBH4	7	102456238	102464876	-0.388946609	PASS
ALKBH5	17	18183078	18209954	0.024610076	PASS
ALKBH6	19	36009120	36014239	0.093487731	suppress_segment_too_large
ALKBH7	19	6372433	6375251	0.079632875	PASS
ALKBH8	11	107502726	107565746	-0.356188624	PASS
ALLC	2	3658195	3702671	0.040498426	PASS
ALMS1	2	73385758	73610793	-0.372959126	PASS
ALOX12	17	6996065	7010736	0.128406487	PASS
ALOX12B	17	8072636	8087716	0.128406487	PASS
ALOX15	17	4630902	4642294	0.128406487	PASS
ALOX15B	17	8039017	8049134	0.128406487	PASS
ALOX5	10	45374176	45446119	-0.404852538	PASS
ALOX5AP	13	30713478	30764426	-0.390786075	PASS
ALOXE3	17	8095900	8119047	0.128406487	PASS
ALPG	2	232406843	232410714	0.025928102	PASS
ALPI	2	232456123	232460032	0.025928102	PASS
ALPK1	4	112285509	112442620	-0.011382299	PASS
ALPK2	18	58481247	58628957	-0.376397843	PASS
ALPK3	15	84816680	84873482	-0.697600509	PASS
ALPL	1	21509372	21578412	0.033763446	PASS
ALPP	2	232378534	232382889	0.025928102	PASS
ALS2	2	201700554	201781189	0.025928102	PASS
ALS2CL	3	46668997	46693704	-0.234617007	PASS
ALS2CR12	2	201288271	201357398	0.025928102	PASS
ALX1	12	85280107	85301784	0.202141228	PASS
ALX3	1	110059994	110070700	0.033763446	PASS
ALX4	11	44260440	44310166	0.117376172	PASS
ALYREF	17	81887844	81891586	0.088516311	PASS
AMACR	5	33986178	34008108	0.055007813	PASS
AMBN	4	70592256	70607288	-0.011382299	PASS
AMBP	9	114060127	114078472	0.365190713	suppress_segment_too_large
AMBRA1	11	46396414	46594125	0.117376172	PASS
AMD1	6	110874770	110895713	-0.368590549	PASS
AMDHD1	12	95943293	95968716	0.202141228	PASS
AMDHD2	16	2520357	2531422	0.069936844	PASS
AMELX	23	11293413	11300761	-0.012567603	PASS
AMER1	23	64185117	64205744	-0.012567603	PASS
AMER2	13	25161684	25172288	-0.390786075	PASS
AMER3	2	130755435	130768134	-0.475215623	PASS
AMFR	16	56361452	56425538	-0.371357732	PASS
AMH	19	2249309	2252073	0.079632875	PASS
AMHR2	12	53423855	53431534	-0.202191512	PASS
AMIGO1	1	109504175	109509738	0.033763446	PASS
AMIGO2	12	47075707	47079951	-0.202191512	PASS
AMIGO3	3	49716834	49719695	-0.234617007	PASS

AMMECR	23	110194186	110440233	-0.012567603	PASS
AMMECR	2	127861630	127885922	-0.475215623	PASS
AMN	14	102922656	102933596	-0.192197564	PASS
AMN1	12	31671137	31729174	0.362961408	suppress_segment_too_large
AMOT	23	112774503	112840815	-0.012567603	PASS
AMOTL1	11	94706431	94876753	0.062969153	PASS
AMOTL2	3	134355874	134375479	0.313454204	suppress_segment_too_large
AMPD1	1	114673090	114695618	0.033763446	PASS
AMPD2	1	109616104	109632051	0.033763446	PASS
AMPD3	11	10308313	10507579	-0.405444717	PASS
AMPH	7	38383704	38631567	-0.69513118	PASS
AMT	3	49416775	49422753	-0.234617007	PASS
AMTN	4	70518540	70532742	-0.011382299	PASS
AMY1A	1	103655290	103664554	0.033763446	PASS
AMY1B	1	103687415	103696680	0.033763446	PASS
AMY1C	1	103750406	103758690	0.033763446	PASS
AMY2A	1	103616811	103625780	0.033763446	PASS
AMY2B	1	103553815	103579534	0.033763446	PASS
AMZ1	7	2679522	2775500	-0.69513118	PASS
AMZ2	17	68247574	68257164	0.088516311	PASS
ANAPC1	2	111611639	111884690	-0.010901494	PASS
ANAPC10	4	144831908	145098541	-0.011382299	PASS
ANAPC11	17	81890790	81900991	0.088516311	PASS
ANAPC13	3	134477706	134486716	0.313454204	suppress_segment_too_large
ANAPC15	11	72106378	72112780	0.062969153	PASS
ANAPC16	10	72216000	72235860	0.072405807	PASS
ANAPC2	9	137174784	137188549	0.365190713	suppress_segment_too_large
ANAPC4	4	25377213	25418498	0.279089364	PASS
ANAPC5	12	121308245	121399896	0.202141228	PASS
ANAPC7	12	110372900	110403730	0.202141228	PASS
ANG	14	20684177	20698971	0.060212819	PASS
ANGEL1	14	76786178	76826246	-0.192197564	PASS
ANGEL2	1	212992182	213015826	-0.256698369	PASS
ANGPT1	8	107249482	107498055	0.279445683	PASS
ANGPT2	8	6499651	6563409	-0.345962679	PASS
ANGPT4	20	869899	916317	-0.168668583	PASS
ANGPTL1	1	178849705	178871052	-0.027073548	PASS
ANGPTL2	9	127087332	127122883	0.365190713	suppress_segment_too_large
ANGPTL3	1	62597487	62606159	0.033763446	PASS
ANGPTL4	19	8363289	8374373	0.079632875	PASS
ANGPTL5	11	101890674	101916522	0.062969153	PASS
ANGPTL6	19	10092338	10102796	0.093487731	suppress_segment_too_large
ANGPTL7	1	11189341	11195981	0.373964873	suppress_segment_too_large
ANGPTL8	19	11237450	11241943	0.093487731	suppress_segment_too_large
ANHX	12	133218312	133236095	0.270848837	PASS
ANK1	8	41653220	41896762	-0.201142258	PASS

ANK2	4	112818109	113383740	-0.011382299	PASS
ANK3	10	60026298	60733490	0.072405807	PASS
ANKAR	2	189674290	189761193	0.025928102	PASS
ANKDD1A	15	64911902	64958700	-0.697600509	PASS
ANKDD1B	5	75611459	75671846	-0.293443042	PASS
ANKEF1	20	9986126	10058303	-0.168668583	PASS
ANKFN1	17	55882301	56511659	0.088516311	PASS
ANKFY1	17	4163907	4263995	0.128406487	PASS
ANKH	5	14704800	14871785	0.055007813	PASS
ANKHD1	5	140401814	140539856	-0.293443042	PASS
ANKHD1-I	5	140401908	140549569	-0.293443042	PASS
ANKIB1	7	92246234	92401384	-0.262778904	PASS
ANKK1	11	113387791	113400418	-0.356188624	PASS
ANKLE1	19	17281645	17287646	0.093487731	suppress_segment_too_large
ANKLE2	12	132725503	132761888	0.270848837	PASS
ANKMY1	2	240479422	240569209	0.025928102	PASS
ANKMY2	7	16599776	16645817	-0.69513118	PASS
ANKRA2	5	73552335	73565686	-0.293443042	PASS
ANKRD1	10	90912096	90921276	-0.39678585	PASS
ANKRD10	13	110878540	110915069	-0.390786075	PASS
ANKRD11	16	89267619	89490561	-0.371357732	PASS
ANKRD12	18	9136228	9285985	-0.052305056	suppress_segment_too_large
ANKRD13	12	109999186	110039763	0.202141228	PASS
ANKRD13	17	29589769	29614761	0.060555011	PASS
ANKRD13	1	70260588	70354734	0.033763446	PASS
ANKRD13	11	67288547	67302485	0.182439925	suppress_segment_too_large
ANKRD16	10	5861617	5889906	0.039811807	PASS
ANKRD17	4	73073376	73258798	-0.011382299	PASS
ANKRD18	9	38571358	38620660	-0.310444659	PASS
ANKRD18	9	33524394	33573009	-0.310444659	PASS
ANKRD2	10	97572499	97583884	-0.367947924	PASS
ANKRD20	9	67859147	67902094	-0.310444659	PASS
ANKRD20	9	40223285	40266392	-0.310444659	PASS
ANKRD20	9	66106815	66153135	-0.310444659	PASS
ANKRD20	9	64369394	64413142	-0.310444659	PASS
ANKRD22	10	88822132	88851818	-1.64589449	suppress_large_homdel
ANKRD23	2	96824526	96857934	0.048238121	PASS
ANKRD24	19	4183354	4224814	0.079632875	PASS
ANKRD26	10	26991914	27100498	0.039811807	PASS
ANKRD27	19	32597007	32676597	0.093487731	suppress_segment_too_large
ANKRD28	3	15667236	15859771	0.311018244	suppress_segment_too_large
ANKRD29	18	23598926	23662885	-0.376397843	PASS
ANKRD30	10	37125788	37384111	0.039811807	PASS
ANKRD30	18	14728272	14852738	-0.052305056	suppress_segment_too_large
ANKRD30	2	132147591	132257969	-0.475215623	PASS
ANKRD31	5	75068275	75236878	-0.293443042	PASS

ANKRD33	12	51887960	51891664	-0.202191512	PASS
ANKRD33	5	10564330	10657816	0.055007813	PASS
ANKRD34	1	145959442	145964582	-0.157385092	PASS
ANKRD34	5	80556755	80570488	-0.293443042	PASS
ANKRD34	15	79293285	79298235	-0.697600509	PASS
ANKRD35	1	145866560	145885866	-0.157385092	PASS
ANKRD36	2	97113496	97250199	0.048238121	PASS
ANKRD36	2	97492663	97589965	0.048238121	PASS
ANKRD36	2	95836919	95991831	0.048238121	PASS
ANKRD37	4	185396021	185400628	-0.462744716	PASS
ANKRD39	2	96836611	96858095	0.048238121	PASS
ANKRD40	17	50693190	50707924	0.088516311	PASS
ANKRD42	11	83193739	83260694	0.062969153	PASS
ANKRD44	2	196967017	197311173	0.025928102	PASS
ANKRD45	1	173609561	173669862	-0.027073548	PASS
ANKRD46	8	100509752	100559784	0.279445683	PASS
ANKRD49	11	94493629	94499583	0.062969153	PASS
ANKRD50	4	124664052	124712732	-0.011382299	PASS
ANKRD52	12	56237807	56258391	-0.202191512	PASS
ANKRD53	2	70978380	70985499	-0.372959126	PASS
ANKRD54	22	37830855	37849327	-0.575930959	PASS
ANKRD55	5	56099678	56233359	-0.293443042	PASS
ANKRD6	6	89433170	89633834	-0.368590549	PASS
ANKRD60	20	58218495	58228653	-0.168668583	PASS
ANKRD61	7	6031376	6036386	-0.69513118	PASS
ANKRD62	18	12093853	12129749	-0.052305056	suppress_segment_too_large
ANKRD63	15	40281444	40282586	-0.396255771	PASS
ANKRD65	1	1418420	1421769	0.373964873	suppress_segment_too_large
ANKRD66	6	46746917	46759506	0.048820648	PASS
ANKRD7	7	118214669	118496171	-0.388946609	PASS
ANKRD9	14	102501760	102509799	-0.192197564	PASS
ANKS1A	6	34889265	35091413	0.048820648	PASS
ANKS1B	12	98726457	99984654	0.202141228	PASS
ANKS3	16	4696510	4734378	0.069936844	PASS
ANKS4B	16	21233665	21253845	0.069936844	PASS
ANKS6	9	98731329	98796965	0.365190713	suppress_segment_too_large
ANKUB1	3	149761100	149968385	0.318278996	suppress_segment_too_large
ANKZF1	2	219229757	219236669	0.025928102	PASS
ANLN	7	36389806	36453791	-0.69513118	PASS
ANO1	11	70078302	70189528	0.182439925	suppress_segment_too_large
ANO10	3	43354859	43691594	-0.234617007	PASS
ANO2	12	5531869	5946232	-0.086128028	PASS
ANO3	11	26309599	26663288	-0.405444717	PASS
ANO4	12	100717526	101128641	0.202141228	PASS
ANO5	11	21799934	22283357	-0.405444717	PASS
ANO6	12	45215987	45440404	-0.202191512	PASS

ANO7	2	241188509	241225377	0.025928102	PASS
ANO8	19	17323223	17334829	0.093487731	suppress_segment_too_large
ANO9	11	417933	442011	-0.333835828	PASS
ANOS1	23	8528874	8732186	-0.012567603	PASS
ANP32A	15	68778535	68820897	-0.697600509	PASS
ANP32B	9	97983361	98015943	0.365190713	suppress_segment_too_large
ANP32D	12	48472665	48473624	-0.202191512	PASS
ANP32E	1	150218417	150236156	0.103015788	PASS
ANPEP	15	89784889	89815401	-0.697600509	PASS
ANTXR1	2	69013178	69249327	-0.372959126	PASS
ANTXR2	4	79901149	80125454	-0.011382299	PASS
ANTXRL	10	46286345	46330207	-0.404852538	PASS
ANXA1	9	73151757	73170393	0.365190713	suppress_segment_too_large
ANXA10	4	168092515	168187690	-0.011382299	PASS
ANXA11	10	80150889	80205572	0.072405807	PASS
ANXA13	8	123680794	123737407	0.279445683	PASS
ANXA2	15	60347134	60402883	-0.697600509	PASS
ANXA2R	5	43039081	43043170	-0.293443042	PASS
ANXA3	4	78551519	78610451	-0.011382299	PASS
ANXA4	2	69644425	69827100	-0.372959126	PASS
ANXA5	4	121667955	121697113	-0.011382299	PASS
ANXA6	5	151100712	151157882	-0.293443042	PASS
ANXA7	10	73375101	73414076	0.072405807	PASS
ANXA8	10	47460162	47484158	-0.404852538	PASS
ANXA8L1	10	46375627	46391784	-0.404852538	PASS
ANXA9	1	150982017	150995634	0.103015788	PASS
AOAH	7	36512949	36724549	-0.69513118	PASS
AOC1	7	150824627	150861504	-0.388946609	PASS
AOC2	17	42844600	42850707	0.088516311	PASS
AOC3	17	42851184	42858130	0.088516311	PASS
AOX1	2	200585868	200677064	0.025928102	PASS
AP000275.	21	32578822	32612281	0.12860881	suppress_segment_too_large
AP000295.	21	33229901	33297160	0.12860881	suppress_segment_too_large
AP000311.	21	33584687	33931607	0.12860881	suppress_segment_too_large
AP000350.	22	23862188	23895223	-0.575930959	PASS
AP000646.	11	121024125	121113108	-0.356188624	PASS
AP000721.	11	63974620	63988346	0.182439925	suppress_segment_too_large
AP000781.	11	57387365	57424059	-0.129266491	PASS
AP000812.	11	72105924	72109329	0.062969153	PASS
AP000812.	11	72080777	72110782	0.062969153	PASS
AP000944.	11	65261928	65326543	0.182439925	suppress_segment_too_large
AP001267.	11	118401602	118482737	-0.356188624	PASS
AP001273.	11	93741664	93812378	0.062969153	PASS
AP001458.	11	62649694	62665178	0.182439925	suppress_segment_too_large
AP001781.	11	111786286	111879425	-0.356188624	PASS
AP001931.	11	57742163	57793243	-0.129266491	PASS

AP002373.	11	114400682	114443932	-0.356188624	PASS
AP002495.	11	71865509	71928654	0.062969153	PASS
AP002512.	11	56459221	56473352	-0.129266491	PASS
AP002748.	11	66509079	66533613	0.182439925	suppress_segment_too_large
AP002884.	11	112086903	112193805	-0.356188624	PASS
AP002990.	11	62559603	62591531	0.182439925	suppress_segment_too_large
AP003108.	11	61429220	61485822	0.182439925	suppress_segment_too_large
AP003419.	11	67351572	67373584	0.182439925	suppress_segment_too_large
AP1AR	4	112231737	112270047	-0.011382299	PASS
AP1B1	22	29327680	29423179	-0.575930959	PASS
AP1G1	16	71729000	71809201	-0.371357732	PASS
AP1G2	14	23559565	23568070	0.060212819	PASS
AP1M1	19	16197578	16245907	0.093487731	suppress_segment_too_large
AP1M2	19	10572671	10587315	0.093487731	suppress_segment_too_large
AP1S1	7	101154400	101161596	-0.388946609	PASS
AP1S2	23	15825806	15854931	-0.012567603	PASS
AP1S3	2	223751686	223838027	0.025928102	PASS
AP2A1	19	49766968	49807113	0.14996833	PASS
AP2A2	11	924894	1012245	-0.333835828	PASS
AP2B1	17	35578046	35726409	0.060555011	PASS
AP2M1	3	184174689	184184091	0.318278996	suppress_segment_too_large
AP2S1	19	46838136	46850992	0.14996833	PASS
AP3B1	5	78000525	78294755	-0.293443042	PASS
AP3B2	15	82659281	82709914	-0.697600509	PASS
AP3D1	19	2100988	2164468	0.079632875	PASS
AP3M1	10	74120255	74151063	0.072405807	PASS
AP3M2	8	42152946	42171673	-0.201142258	PASS
AP3S1	5	115841481	115914081	-0.293443042	PASS
AP3S2	15	89830599	89894638	-0.697600509	PASS
AP4B1	1	113894748	113905201	0.033763446	PASS
AP4E1	15	50908672	51005900	-0.396255771	PASS
AP4M1	7	100101549	100110345	-0.262778904	PASS
AP4S1	14	31025106	31096450	0.060212819	PASS
AP5B1	11	65775893	65780802	0.182439925	suppress_segment_too_large
AP5M1	14	57268909	57298742	0.060212819	PASS
AP5S1	20	3820524	3828837	-0.168668583	PASS
AP5Z1	7	4775615	4794395	-0.69513118	PASS
APAF1	12	98645141	98735433	0.202141228	PASS
APBA1	9	69427530	69672306	0.365190713	suppress_segment_too_large
APBA2	15	28884483	29118315	-0.396255771	PASS
APBA3	19	3750819	3761699	0.079632875	PASS
APBB1	11	6395124	6419414	-0.405444717	PASS
APBB1IP	10	26438203	26567803	0.039811807	PASS
APBB2	4	40810027	41216714	-0.011382299	PASS
APBB3	5	140558268	140564781	-0.293443042	PASS
APC	5	112707498	112846239	-0.293443042	PASS

APC2	19	1446302	1473244	0.079632875	PASS
APCDD1	18	10454628	10489948	-0.052305056	suppress_segment_too_large
APCDD1L	20	58459101	58515131	-0.168668583	PASS
APCS	1	159587825	159588865	-0.467855874	PASS
APEH	3	49674002	49683963	-0.234617007	PASS
APELA	4	164877004	164898965	-0.011382299	PASS
APEX1	14	20455191	20457772	0.060212819	PASS
APEX2	23	55000357	55009057	-0.012567603	PASS
APH1A	1	150265399	150269580	0.103015788	PASS
APH1B	15	63276018	63309126	-0.697600509	PASS
API5	11	43311963	43344529	0.117376172	PASS
APIP	11	34853094	34916499	-0.405444717	PASS
APLF	2	68467561	68655862	-0.372959126	PASS
APLN	23	129645259	129654937	-0.012567603	PASS
APLNR	11	57233577	57237314	-0.129266491	PASS
APLP1	19	35867899	35879791	0.093487731	suppress_segment_too_large
APLP2	11	130068147	130144811	-0.419612865	PASS
APMAP	20	24962925	24992979	-0.168668583	PASS
APOA1	11	116835751	116837950	-0.356188624	PASS
APOA2	1	161222292	161223631	-0.027073548	PASS
APOA4	11	116820700	116823306	-0.356188624	PASS
APOA5	11	116789367	116792420	-0.356188624	PASS
APOB	2	21001429	21044073	0.040498426	PASS
APOBEC1	12	7649400	7665903	-0.086128028	PASS
APOBEC2	6	41053304	41064511	0.048820648	PASS
APOBEC3	22	38952741	38992778	-0.575930959	PASS
APOBEC3	22	38982347	38992804	-0.575930959	PASS
APOBEC3	22	39014083	39020352	-0.575930959	PASS
APOBEC3	22	39021113	39033276	-0.575930959	PASS
APOBEC3	22	39040604	39053910	-0.575930959	PASS
APOBEC3	22	39077005	39087743	-0.575930959	PASS
APOBEC3	22	39097224	39104067	-0.575930959	PASS
APOBEC4	1	183646404	183653316	-0.027073548	PASS
APOBR	16	28494649	28498970	0.069936844	PASS
APOC1	19	44914247	44919349	0.14996833	PASS
APOC2	19	44945982	44949565	0.14996833	PASS
APOC3	11	116829706	116833072	-0.356188624	PASS
APOC4	19	44942238	44945496	0.14996833	PASS
APOC4-AP	19	44942238	44949565	0.14996833	PASS
APOD	3	195568702	195584205	0.326834516	PASS
APOE	19	44905754	44909393	0.14996833	PASS
APOF	12	56360569	56362823	-0.202191512	PASS
APOH	17	66212033	66256525	0.088516311	PASS
APOL1	22	36253010	36267530	-0.575930959	PASS
APOL2	22	36226203	36239954	-0.575930959	PASS
APOL3	22	36140330	36166177	-0.575930959	PASS

APOL4	22	36189124	36204840	-0.575930959	PASS
APOL5	22	35717872	35729483	-0.575930959	PASS
APOL6	22	35648395	35668409	-0.575930959	PASS
APOLD1	12	12725917	12829975	0.362961408	suppress_segment_too_large
APOM	6	31652416	31658210	0.048820648	PASS
APOO	23	23833353	23907934	-0.012567603	PASS
APOOL	23	85003826	85093316	-0.012567603	PASS
APOPT1	14	103562962	103607523	-0.192197564	PASS
APP	21	25880550	26171128	0.12860881	suppress_segment_too_large
APPBP2	17	60443149	60526219	0.088516311	PASS
APPL1	3	57227726	57278105	-0.234617007	PASS
APPL2	12	105173296	105236238	0.202141228	PASS
APRT	16	88809339	88811944	-0.371357732	PASS
APTX	9	32972606	33025168	-0.310444659	PASS
AQP1	7	30911694	30925516	-0.69513118	PASS
AQP10	1	154321090	154325325	0.103015788	PASS
AQP11	11	77589391	77610355	0.062969153	PASS
AQP12A	2	240691845	240698483	0.025928102	PASS
AQP12B	2	240676418	240682906	0.025928102	PASS
AQP2	12	49950741	49958881	-0.202191512	PASS
AQP3	9	33441154	33447633	-0.310444659	PASS
AQP4	18	26852038	26865818	-0.376397843	PASS
AQP5	12	49961870	49965681	-0.202191512	PASS
AQP6	12	49967194	49977139	-0.202191512	PASS
AQP7	9	33383179	33402682	-0.310444659	PASS
AQP8	16	25215731	25228940	0.069936844	PASS
AQP9	15	58138169	58185911	-0.697600509	PASS
AQR	15	34851782	34969839	-0.396255771	PASS
AR	23	67544032	67730619	-0.012567603	PASS
ARAF	23	47561100	47571920	-0.012567603	PASS
ARAP1	11	72685069	72793599	0.062969153	PASS
ARAP2	4	35948221	36244509	-0.011382299	PASS
ARAP3	5	141653401	141682221	-0.293443042	PASS
ARC	8	142611044	142614472	0.113969953	PASS
ARCN1	11	118572390	118603033	-0.356188624	PASS
AREG	4	74445134	74455009	-0.011382299	PASS
AREL1	14	74653437	74713115	-0.192197564	PASS
ARF1	1	228082660	228099212	-0.256698369	PASS
ARF3	12	48935723	48957551	-0.202191512	PASS
ARF4	3	57571363	57598220	-0.234617007	PASS
ARF5	7	127588345	127591705	-0.388946609	PASS
ARF6	14	49893092	49897054	0.060212819	PASS
ARFGAP1	20	63272785	63289793	-0.168668583	PASS
ARFGAP2	11	47164299	47177125	0.117376172	PASS
ARFGAP3	22	42796502	42858106	-0.575930959	PASS
ARFGEF1	8	67173511	67343677	-0.201142258	PASS

ARFGEF2	20	48921890	49036693	-0.168668583	PASS
ARFGEF3	6	138161921	138344663	-0.035448111	PASS
ARFIP1	4	152779937	152918463	-0.011382299	PASS
ARFIP2	11	6474683	6481479	-0.405444717	PASS
ARFRP1	20	63698642	63708025	-0.168668583	PASS
ARG1	6	131573144	131584332	-0.458570262	PASS
ARG2	14	67619798	67651720	0.060212819	PASS
ARGFX	3	121570704	121586634	0.313454204	suppress_segment_too_large
ARGLU1	13	106541673	106568164	-0.390786075	PASS
ARHGAP1	11	46677080	46700615	0.117376172	PASS
ARHGAP1	4	147732063	148072780	-0.011382299	PASS
ARHGAP1	15	32615144	32639949	-0.396255771	PASS
ARHGAP1	15	30624494	30638805	-0.396255771	PASS
ARHGAP1	10	31805404	31928876	0.039811807	PASS
ARHGAP1	2	143091362	143768352	-0.475215623	PASS
ARHGAP1	16	24919385	25015666	0.069936844	PASS
ARHGAP1	6	129576132	129710225	-0.458570262	PASS
ARHGAP1	10	97222173	97292673	-0.367947924	PASS
ARHGAP1	10	97153045	97292637	-0.367947924	PASS
ARHGAP2	11	110577042	110713189	-0.356188624	PASS
ARHGAP2	10	24583609	24723668	0.039811807	PASS
ARHGAP2	10	48446034	48656265	-0.404852538	PASS
ARHGAP2	17	38419280	38512392	0.060555011	PASS
ARHGAP2	4	85475114	86002670	-0.011382299	PASS
ARHGAP2	2	68679601	68826833	-0.372959126	PASS
ARHGAP2	5	142770377	143229011	-0.293443042	PASS
ARHGAP2	17	45393902	45434421	0.088516311	PASS
ARHGAP2	18	6729718	6915716	-0.052305056	suppress_segment_too_large
ARHGAP2	1	94148988	94275068	0.033763446	PASS
ARHGAP3	1	161046946	161069970	-0.027073548	PASS
ARHGAP3	3	119294373	119420714	0.313454204	suppress_segment_too_large
ARHGAP3	11	128965060	129279324	-0.419612865	PASS
ARHGAP3	19	35774532	35788822	0.093487731	suppress_segment_too_large
ARHGAP3	19	46918676	47005077	0.14996833	PASS
ARHGAP3	23	131058242	131089883	-0.012567603	PASS
ARHGAP3	8	144529179	144605816	0.307788765	PASS
ARHGAP4	23	153907367	153934999	-0.012567603	PASS
ARHGAP4	20	38601934	38651035	-0.168668583	PASS
ARHGAP4	11	100687653	100993941	0.062969153	PASS
ARHGAP4	17	12789539	12991643	-0.139031004	PASS
ARHGAP4	19	1065923	1086628	0.079632875	PASS
ARHGAP5	14	32076114	32159728	0.060212819	PASS
ARHGAP6	23	11137543	11665701	-0.012567603	PASS
ARHGAP8	22	44752558	44862788	-0.808211634	PASS
ARHGAP9	12	57472255	57488814	-0.202191512	PASS
ARHGDIA	17	81867721	81871406	0.088516311	PASS

ARHGDIB	12	14942017	14961728	0.362961408	suppress_segment_too_large
ARHGDIG	16	268727	283010	0.069936844	PASS
ARHGEF1	19	41883161	41930150	0.093487731	suppress_segment_too_large
ARHGEF1	8	1823976	1958641	-0.313874214	PASS
ARHGEF1	1	17539835	17697874	0.033763446	PASS
ARHGEF1	1	156934840	157045370	0.103015788	PASS
ARHGEF1	11	120336914	120489936	-0.356188624	PASS
ARHGEF1	17	8310241	8322516	0.128406487	PASS
ARHGEF1	1	3454426	3481113	0.373964873	suppress_segment_too_large
ARHGEF1	11	73308289	73369388	0.062969153	PASS
ARHGEF1	19	7395113	7472477	0.079632875	PASS
ARHGEF1	1	16197854	16212609	0.033763446	PASS
ARHGEF2	1	155946851	156007070	0.103015788	PASS
ARHGEF2	12	57610180	57619379	-0.202191512	PASS
ARHGEF2	3	154121003	154257827	0.318278996	suppress_segment_too_large
ARHGEF2	5	73626158	73941993	-0.293443042	PASS
ARHGEF3	3	56727418	57079329	-0.234617007	PASS
ARHGEF3	2	38889841	38975449	0.040498426	PASS
ARHGEF3	7	144186083	144195655	-0.388946609	PASS
ARHGEF3	5	149551947	149634968	-0.293443042	PASS
ARHGEF3	4	105552620	105708093	-0.011382299	PASS
ARHGEF3	9	35658875	35675866	-0.310444659	PASS
ARHGEF4	2	130836916	131047263	-0.475215623	PASS
ARHGEF4	14	21070270	21090240	0.060212819	PASS
ARHGEF5	7	144355288	144380632	-0.388946609	PASS
ARHGEF6	23	136665547	136782088	-0.012567603	PASS
ARHGEF7	13	111114559	111305737	-0.390786075	PASS
ARHGEF9	23	63634967	63809274	-0.012567603	PASS
ARID1A	1	26693236	26782110	0.033763446	PASS
ARID1B	6	156776020	157210779	-0.035448111	PASS
ARID2	12	45729665	45908040	-0.202191512	PASS
ARID3A	19	925781	975934	0.079632875	PASS
ARID3B	15	74541177	74598131	-0.697600509	PASS
ARID3C	9	34621379	34628107	-0.310444659	PASS
ARID4A	14	58298385	58373887	0.060212819	PASS
ARID4B	1	235131634	235328219	-0.256698369	PASS
ARID5A	2	96536743	96552638	0.048238121	PASS
ARID5B	10	61901300	62096944	0.072405807	PASS
ARIH1	15	72474326	72602985	-0.697600509	PASS
ARIH2	3	48918821	48986382	-0.234617007	PASS
ARIH2OS	3	48917782	48919385	-0.234617007	PASS
ARL1	12	101393120	101407820	0.202141228	PASS
ARL10	5	176365468	176401865	-0.150979337	PASS
ARL11	13	49628299	49633872	-0.390786075	PASS
ARL13A	23	100969708	100990829	-0.012567603	PASS
ARL13B	3	93980139	94055668	0.313454204	suppress_segment_too_large

ARL14	3	160677159	160678452	0.318278996	suppress_segment_too_large
ARL14EP	11	30323051	30338227	-0.405444717	PASS
ARL14EPL	5	116032324	116060118	-0.293443042	PASS
ARL15	5	53883945	54310582	-0.293443042	PASS
ARL16	17	81681174	81683924	0.088516311	PASS
ARL17A	17	46516702	46579682	0.088516311	PASS
ARL17B	17	46274784	46361797	0.088516311	PASS
ARL2	11	65014113	65022184	0.182439925	suppress_segment_too_large
ARL2-SNX	11	65014182	65040570	0.182439925	suppress_segment_too_large
ARL2BP	16	57245098	57253635	-0.371357732	PASS
ARL3	10	102673731	102714407	-0.367947924	PASS
ARL4A	7	12686856	12690934	-0.69513118	PASS
ARL4C	2	234493041	234497053	0.025928102	PASS
ARL4D	17	43398959	43401137	0.088516311	PASS
ARL5A	2	151788984	151828492	-0.475215623	PASS
ARL5B	10	18659405	18681639	0.039811807	PASS
ARL5C	17	39156894	39167484	0.060555011	PASS
ARL6	3	97764521	97801242	0.313454204	suppress_segment_too_large
ARL6IP1	16	18791667	18801678	0.069936844	PASS
ARL6IP4	12	122980060	122982913	0.202141228	PASS
ARL6IP5	3	69084944	69106066	-0.234617007	PASS
ARL6IP6	2	152717893	152761253	-0.475215623	PASS
ARL8A	1	202133404	202144743	-0.256698369	PASS
ARL8B	3	5122220	5180912	0.311018244	suppress_segment_too_large
ARL9	4	56505209	56525481	-0.011382299	PASS
ARMC1	8	65602456	65634217	-0.201142258	PASS
ARMC10	7	103074881	103099764	-0.388946609	PASS
ARMC12	6	35737032	35749079	0.048820648	PASS
ARMC2	6	108848416	108974472	-0.368590549	PASS
ARMC3	10	22928024	23038523	0.039811807	PASS
ARMC4	10	27812164	27999048	0.039811807	PASS
ARMC5	16	31458080	31467166	0.069936844	PASS
ARMC6	19	19033575	19060311	0.093487731	suppress_segment_too_large
ARMC7	17	75109952	75130265	0.088516311	PASS
ARMC8	3	138187248	138298389	0.313454204	suppress_segment_too_large
ARMC9	2	231198546	231374837	0.025928102	PASS
ARMCX1	23	101550531	101554700	-0.012567603	PASS
ARMCX2	23	101655281	101659891	-0.012567603	PASS
ARMCX3	23	101622797	101627843	-0.012567603	PASS
ARMCX4	23	101418287	101533459	-0.012567603	PASS
ARMCX5	23	102599168	102604159	-0.012567603	PASS
ARMCX6	23	101615118	101618001	-0.012567603	PASS
ARMH1	1	44674692	44725591	0.033763446	PASS
ARMH2	6	24797321	24798889	0.048820648	PASS
ARMH3	10	101845599	102056193	-0.367947924	PASS
ARMH4	14	57999735	58298139	0.060212819	PASS

ARMS2	10	122454653	122457352	0.063874692	PASS
ARMT1	6	151452258	151470101	-0.035448111	PASS
ARNT	1	150809705	150876768	0.103015788	PASS
ARNT2	15	80404350	80597937	-0.697600509	PASS
ARNTL	11	13276652	13387266	-0.405444717	PASS
ARNTL2	12	27332854	27425289	0.362961408	suppress_segment_too_large
ARPC1A	7	99325910	99366262	-0.262778904	PASS
ARPC1B	7	99374249	99394816	-0.262778904	PASS
ARPC2	2	218217094	218254356	0.025928102	PASS
ARPC3	12	110434825	110450422	0.202141228	PASS
ARPC4	3	9792495	9807726	0.311018244	suppress_segment_too_large
ARPC4-TT	3	9793082	9835401	0.311018244	suppress_segment_too_large
ARPC5	1	183620846	183635757	-0.027073548	PASS
ARPC5L	9	124862130	124877733	0.365190713	suppress_segment_too_large
ARPIN	15	89895006	89912956	-0.697600509	PASS
ARPP19	15	52547045	52569883	-0.396255771	PASS
ARPP21	3	35638945	35794496	-0.234617007	PASS
ARR3	23	70268305	70281840	-0.012567603	PASS
ARRB1	11	75264182	75351705	0.062969153	PASS
ARRB2	17	4710489	4721499	0.128406487	PASS
ARRDC1	9	137605654	137615360	0.365190713	suppress_segment_too_large
ARRDC2	19	18001132	18014102	0.093487731	suppress_segment_too_large
ARRDC3	5	91368724	91383359	-0.293443042	PASS
ARRDC4	15	97960698	97973838	-0.697600509	PASS
ARRDC5	19	4890437	4902867	0.079632875	PASS
ARSA	22	50622754	50628173	-0.808211634	PASS
ARSB	5	78777209	78986087	-0.293443042	PASS
ARSD	23	2903970	2929351	-0.012567603	PASS
ARSE	23	2934632	2968310	-0.012567603	PASS
ARSF	23	3041471	3112726	-0.012567603	PASS
ARSG	17	68259182	68422731	0.088516311	PASS
ARSH	23	3006613	3033571	-0.012567603	PASS
ARSI	5	150296343	150339307	-0.293443042	PASS
ARSJ	4	113900284	113979727	-0.011382299	PASS
ARSK	5	95555074	95605064	-0.293443042	PASS
ART1	11	3645128	3664416	-0.333835828	PASS
ART3	4	76011184	76112802	-0.011382299	PASS
ART4	12	14825569	14843533	0.362961408	suppress_segment_too_large
ART5	11	3638503	3642316	-0.333835828	PASS
ARTN	1	43933320	43937241	0.033763446	PASS
ARV1	1	230978981	231000595	-0.256698369	PASS
ARVCF	22	19969896	20016808	-0.575930959	PASS
ARX	23	25003694	25016420	-0.012567603	PASS
AS3MT	10	102869516	102901899	-0.367947924	PASS
ASAH1	8	18055992	18084998	-0.345962679	PASS
ASAH2	10	50182778	50248610	-0.404852538	PASS

ASAH2B	10	50739318	50816495	-0.404852538	PASS
ASAP1	8	130052104	130443660	0.113969953	PASS
ASAP2	2	9206765	9405683	0.040498426	PASS
ASAP3	1	23428563	23484568	0.033763446	PASS
ASB1	2	238426742	238452250	0.025928102	PASS
ASB10	7	151175698	151187832	-0.388946609	PASS
ASB11	23	15281697	15315656	-0.012567603	PASS
ASB12	23	64224196	64230631	-0.012567603	PASS
ASB13	10	5638867	5666595	0.039811807	PASS
ASB14	3	57268347	57292682	-0.234617007	PASS
ASB15	7	123567010	123639481	-0.388946609	PASS
ASB16	17	44170447	44179083	0.088516311	PASS
ASB17	1	75918873	75932431	0.033763446	PASS
ASB18	2	236194872	236264409	0.025928102	PASS
ASB2	14	93934153	93976791	-0.192197564	PASS
ASB3	2	53532672	53787610	0.040498426	PASS
ASB4	7	95478444	95540232	-0.262778904	PASS
ASB5	4	176213673	176277571	-0.011382299	PASS
ASB6	9	129634604	129642169	0.365190713	suppress_segment_too_large
ASB7	15	100602534	100651705	-0.697600509	PASS
ASB8	12	48147788	48181213	-0.202191512	PASS
ASB9	23	15235288	15270467	-0.012567603	PASS
ASCC1	10	72096032	72217134	0.072405807	PASS
ASCC2	22	29788608	29838304	-0.575930959	PASS
ASCC3	6	100508194	100881372	-0.368590549	PASS
ASCL1	12	102957686	102960516	0.202141228	PASS
ASCL2	11	2268495	2270952	-0.333835828	PASS
ASCL3	11	8937579	8938211	-0.405444717	PASS
ASCL4	12	107774385	107776644	0.202141228	PASS
ASCL5	1	201113953	201127184	-0.256698369	PASS
ASF1A	6	118894220	118909167	-0.368590549	PASS
ASF1B	19	14119509	14136956	0.093487731	suppress_segment_too_large
ASGR1	17	7173431	7179564	0.128406487	PASS
ASGR2	17	7101322	7115700	0.128406487	PASS
ASH1L	1	155335268	155562807	0.103015788	PASS
ASH2L	8	38105242	38144076	-0.201142258	PASS
ASIC1	12	50057548	50083611	-0.202191512	PASS
ASIC2	17	33013087	34174964	0.060555011	PASS
ASIC3	7	151048292	151052756	-0.388946609	PASS
ASIC4	2	219514170	219538772	0.025928102	PASS
ASIC5	4	155829729	155866273	-0.011382299	PASS
ASIP	20	34194569	34269344	-0.168668583	PASS
ASL	7	66075798	66093558	-0.750061359	PASS
ASMT	23	1615001	1643081	-0.012567603	PASS
ASMTL	23	1403139	1453762	-0.012567603	PASS
ASNA1	19	12737139	12748323	0.093487731	suppress_segment_too_large

ASNS	7	97852118	97872542	-0.262778904	PASS
ASNSD1	2	189661385	189670831	0.025928102	PASS
ASPA	17	3472374	3503419	0.128406487	PASS
ASPDH	19	50511600	50514690	-0.016761391	PASS
ASPG	14	104085679	104115581	-0.192197564	PASS
ASPH	8	61500556	61714640	-0.201142258	PASS
ASPHD1	16	29900375	29919864	0.069936844	PASS
ASPHD2	22	26429273	26445015	-0.575930959	PASS
ASPM	1	197084128	197146694	-0.027073548	PASS
ASPN	9	92456205	92482506	0.365190713	suppress_segment_too_large
ASPRV1	2	69960089	69962265	-0.372959126	PASS
ASPSCR1	17	81976807	82017406	0.088516311	PASS
ASRGL1	11	62337448	62393412	0.182439925	suppress_segment_too_large
ASS1	9	130444929	130501274	0.365190713	suppress_segment_too_large
ASTE1	3	131013875	131027649	0.313454204	suppress_segment_too_large
ASTL	2	96123850	96138436	0.048238121	PASS
ASTN1	1	176857302	177164973	-0.027073548	PASS
ASTN2	9	116425225	117415070	0.365190713	suppress_segment_too_large
ASXL1	20	32358330	32439319	-0.168668583	PASS
ASXL2	2	25733753	25878516	0.040498426	PASS
ASXL3	18	33578233	33751192	-0.376397843	PASS
ASZ1	7	117363222	117428123	-0.388946609	PASS
ATAD1	10	87751512	87841343	-1.64589449	suppress_large_homdel
ATAD2	8	123319850	123416350	0.279445683	PASS
ATAD2B	2	23748664	23927114	0.040498426	PASS
ATAD3A	1	1512151	1534687	0.373964873	suppress_segment_too_large
ATAD3B	1	1471769	1497848	0.373964873	suppress_segment_too_large
ATAD3C	1	1449689	1470158	0.373964873	suppress_segment_too_large
ATAD5	17	30831970	30895869	0.060555011	PASS
ATAT1	6	30626842	30646823	0.048820648	PASS
ATCAY	19	3879864	3928079	0.079632875	PASS
ATE1	10	121740421	121928801	0.063874692	PASS
ATF1	12	50763710	50821122	-0.202191512	PASS
ATF2	2	175072250	175168382	0.039726562	PASS
ATF3	1	212565334	212620777	-0.256698369	PASS
ATF4	22	39519695	39522685	-0.575930959	PASS
ATF5	19	49928702	49933935	-0.016761391	PASS
ATF6	1	161766294	161964070	-0.027073548	PASS
ATF6B	6	32115264	32128253	0.048820648	PASS
ATF7	12	53507856	53626410	-0.202191512	PASS
ATF7IP	12	14365632	14502935	0.362961408	suppress_segment_too_large
ATF7IP2	16	10326434	10483638	0.069936844	PASS
ATG10	5	81972025	82276857	-0.293443042	PASS
ATG101	12	52069246	52077494	-0.202191512	PASS
ATG12	5	115828200	115841858	-0.293443042	PASS
ATG13	11	46617527	46674818	0.117376172	PASS

ATG14	14	55366392	55411858	0.060212819	PASS
ATG16L1	2	233210051	233295674	0.025928102	PASS
ATG16L2	11	72814308	72843674	0.062969153	PASS
ATG2A	11	64894546	64917248	0.182439925	suppress_segment_too_large
ATG2B	14	96279202	96363870	-0.192197564	PASS
ATG3	3	112532509	112562046	0.313454204	suppress_segment_too_large
ATG4A	23	108091668	108154671	-0.012567603	PASS
ATG4C	1	62784135	62865513	0.033763446	PASS
ATG4D	19	10543895	10553418	0.093487731	suppress_segment_too_large
ATG5	6	106045423	106325791	-0.368590549	PASS
ATG7	3	11272309	11557665	0.311018244	suppress_segment_too_large
ATG9A	2	219219380	219229717	0.025928102	PASS
ATG9B	7	151012209	151024499	-0.388946609	PASS
ATIC	2	215311817	215349773	0.025928102	PASS
ATL1	14	50532509	50633068	0.060212819	PASS
ATL2	2	38294880	38377285	0.040498426	PASS
ATL3	11	63624087	63671921	0.182439925	suppress_segment_too_large
ATM	11	108222484	108369102	-0.356188624	PASS
ATMIN	16	81035847	81047358	-0.371357732	PASS
ATN1	12	6924463	6942321	-0.086128028	PASS
ATOH1	4	93828753	93830964	-0.011382299	PASS
ATOH7	10	68230624	68232103	0.072405807	PASS
ATOH8	2	85751344	85788066	0.066915641	PASS
ATOX1	5	151742316	151772532	-0.293443042	PASS
ATP10A	15	25677273	25865172	-0.396255771	PASS
ATP10B	5	160563120	160852214	-0.150979337	PASS
ATP10D	4	47485288	47593486	-0.011382299	PASS
ATP11A	13	112690329	112887168	-0.390786075	PASS
ATP11B	3	182793500	182921635	0.318278996	suppress_segment_too_large
ATP11C	23	139726346	139945276	-0.012567603	PASS
ATP12A	13	24680411	24712493	-0.390786075	PASS
ATP13A1	19	19645198	19663693	0.093487731	suppress_segment_too_large
ATP13A2	1	16985958	17011928	0.033763446	PASS
ATP13A3	3	194402672	194498364	0.326834516	PASS
ATP13A4	3	193402077	193593111	-0.627320105	PASS
ATP13A5	3	193274790	193378843	-0.627320105	PASS
ATP1A1	1	116372668	116410261	0.033763446	PASS
ATP1A2	1	160115759	160143591	-0.027073548	PASS
ATP1A3	19	41966582	41997497	0.093487731	suppress_segment_too_large
ATP1A4	1	160151570	160186977	-0.027073548	PASS
ATP1B1	1	169105697	169132722	-0.027073548	PASS
ATP1B2	17	7646627	7657768	0.128406487	PASS
ATP1B3	3	141876124	141926514	-0.356957581	PASS
ATP1B4	23	120362085	120383249	-0.012567603	PASS
ATP23	12	57906039	57959148	-0.202191512	PASS
ATP2A1	16	28878405	28904509	0.069936844	PASS

ATP2A2	12	110280756	110351093	0.202141228	PASS
ATP2A3	17	3923870	3964464	0.128406487	PASS
ATP2B1	12	89588049	89709300	0.202141228	PASS
ATP2B2	3	10324023	10708007	0.311018244	suppress_segment_too_large
ATP2B3	23	153517676	153582939	-0.012567603	PASS
ATP2B4	1	203626561	203744081	-0.256698369	PASS
ATP2C1	3	130850595	131016712	0.313454204	suppress_segment_too_large
ATP2C2	16	84368527	84464187	-0.371357732	PASS
ATP4A	19	35550043	35563658	0.093487731	suppress_segment_too_large
ATP4B	13	113648804	113658186	-0.390786075	PASS
ATP5F1A	18	46080248	46104334	-0.376397843	PASS
ATP5F1B	12	56638175	56646068	-0.202191512	PASS
ATP5F1C	10	7788129	7807815	0.039811807	PASS
ATP5F1D	19	1241746	1244826	0.079632875	PASS
ATP5F1E	20	59025467	59032382	-0.168668583	PASS
ATP5IF1	1	28236109	28246906	0.033763446	PASS
ATP5MC1	17	48892765	48895871	0.088516311	PASS
ATP5MC2	12	53632726	53677408	-0.202191512	PASS
ATP5MC3	2	175176258	175184607	0.039726562	PASS
ATP5MD	10	103389041	103396492	-0.367947924	PASS
ATP5ME	4	672436	674338	0.279089364	PASS
ATP5MF	7	99448475	99466331	-0.262778904	PASS
ATP5MF-P	7	99419749	99466197	-0.262778904	PASS
ATP5MG	11	118401154	118431496	-0.356188624	PASS
ATP5MGL	22	42639803	42640601	-0.575930959	PASS
ATP5MPL	14	103912288	103928269	-0.192197564	PASS
ATP5PB	1	111448864	111462773	0.033763446	PASS
ATP5PD	17	75038863	75046985	0.088516311	PASS
ATP5PF	21	25716503	25735673	0.12860881	suppress_segment_too_large
ATP5PO	21	33903453	33915980	0.12860881	suppress_segment_too_large
ATP5S	14	50312326	50335558	0.060212819	PASS
ATP6AP1	23	154428632	154436516	-0.012567603	PASS
ATP6AP1L	5	82279462	82386977	-0.293443042	PASS
ATP6AP2	23	40579372	40606848	-0.012567603	PASS
ATP6V0A1	17	42458844	42522611	0.088516311	PASS
ATP6V0A2	12	123712318	123761755	0.202141228	PASS
ATP6V0A4	7	138706294	138799560	-0.388946609	PASS
ATP6V0B	1	43974487	43978295	0.033763446	PASS
ATP6V0C	16	2513870	2520218	0.069936844	PASS
ATP6V0D1	16	67438014	67481237	-0.371357732	PASS
ATP6V0D2	8	85987323	86154228	0.279445683	PASS
ATP6V0E1	5	172983757	173035445	-0.150979337	PASS
ATP6V0E2	7	149872968	149891204	-0.388946609	PASS
ATP6V1A	3	113747019	113812056	0.313454204	suppress_segment_too_large
ATP6V1B1	2	70935868	70965431	-0.372959126	PASS
ATP6V1B2	8	20197367	20226819	-0.345962679	PASS

ATP6V1C1	8	103021063	103073051	0.279445683	PASS
ATP6V1C2	2	10721100	10785110	0.040498426	PASS
ATP6V1D	14	67294371	67360265	0.060212819	PASS
ATP6V1E1	22	17592136	17628818	-0.575930959	PASS
ATP6V1E2	2	46490750	46542557	0.040498426	PASS
ATP6V1F	7	128862826	128865844	-0.388946609	PASS
ATP6V1FN	7	128866308	128872044	-0.388946609	PASS
ATP6V1G1	9	114587746	114598373	0.365190713	suppress_segment_too_large
ATP6V1G2	6	31544462	31548427	0.048820648	PASS
ATP6V1G2	6	31530219	31546608	0.048820648	PASS
ATP6V1G3	1	198523222	198540945	-0.027073548	PASS
ATP6V1H	8	53715557	53843558	-0.201142258	PASS
ATP7A	23	77910656	78050395	-0.012567603	PASS
ATP7B	13	51930436	52012125	-0.390786075	PASS
ATP8A1	4	42408373	42657105	-0.011382299	PASS
ATP8A2	13	25372071	26025851	-0.390786075	PASS
ATP8B1	18	57646426	57803315	-0.376397843	PASS
ATP8B2	1	154325553	154351307	0.103015788	PASS
ATP8B3	19	1782075	1812276	0.079632875	PASS
ATP8B4	15	49858238	50182817	-0.396255771	PASS
ATP9A	20	51596514	51768634	-0.168668583	PASS
ATP9B	18	79069285	79378287	-0.376397843	PASS
ATPAF1	1	46632737	46673867	0.033763446	PASS
ATPAF2	17	17977409	18039209	0.024610076	PASS
ATR	3	142449235	142578826	0.318278996	suppress_segment_too_large
ATRAID	2	27212027	27217178	0.040498426	PASS
ATRIP	3	48446710	48467645	-0.234617007	PASS
ATRN	20	3471040	3651122	-0.168668583	PASS
ATRNL1	10	115093365	115948992	0.063874692	PASS
ATRX	23	77504878	77786233	-0.012567603	PASS
ATXN1	6	16299112	16761491	0.048820648	PASS
ATXN10	22	45671798	45845307	-0.808211634	PASS
ATXN1L	16	71845991	71885268	-0.371357732	PASS
ATXN2	12	111443485	111599676	0.202141228	PASS
ATXN2L	16	28823035	28837237	0.069936844	PASS
ATXN3	14	92044496	92106625	-0.192197564	PASS
ATXN3L	23	13318236	13320399	-0.012567603	PASS
ATXN7	3	63864557	64003462	-0.234617007	PASS
ATXN7L1	7	105605067	105876604	-0.388946609	PASS
ATXN7L2	1	109483479	109492804	0.033763446	PASS
ATXN7L3	17	44191805	44200113	0.088516311	PASS
ATXN7L3I	12	74537827	74545430	0.202141228	PASS
AUH	9	91213815	91361913	0.365190713	suppress_segment_too_large
AUNIP	1	25831913	25859458	0.033763446	PASS
AUP1	2	74526645	74529939	-0.372959126	PASS
AURKA	20	56369389	56392337	-0.168668583	PASS

AURKAIP	1	1373730	1375495	0.373964873	suppress_segment_too_large
AURKB	17	8204733	8210600	0.128406487	PASS
AURKC	19	57230802	57235548	-0.180829161	PASS
AUTS2	7	69598296	70793495	-0.750061359	PASS
AVEN	15	33866227	34039176	-0.396255771	PASS
AVIL	12	57797376	57818704	-0.202191512	PASS
AVL9	7	32495426	32588721	-0.69513118	PASS
AVP	20	3082556	3084724	-0.168668583	PASS
AVPI1	10	97677424	97687323	-0.367947924	PASS
AVPR1A	12	63142759	63150942	-0.202191512	PASS
AVPR1B	1	206109692	206117699	-0.256698369	PASS
AVPR2	23	153902531	153907166	-0.012567603	PASS
AWAT1	23	70234655	70240627	-0.012567603	PASS
AWAT2	23	70040542	70049938	-0.012567603	PASS
AXDND1	1	179365720	179554735	-0.027073548	PASS
AXIN1	16	287440	352673	0.069936844	PASS
AXIN2	17	65528563	65561647	0.088516311	PASS
AXL	19	41219203	41261766	0.093487731	suppress_segment_too_large
AZGP1	7	99966720	99976157	-0.262778904	PASS
AZI2	3	28315003	28349127	0.311018244	suppress_segment_too_large
AZIN1	8	102826357	102893864	0.279445683	PASS
AZIN2	1	33081104	33120530	0.033763446	PASS
AZU1	19	825097	832018	0.079632875	PASS
B2M	15	44711487	44718877	-0.396255771	PASS
B3GALNT	3	161083883	161105384	0.318278996	suppress_segment_too_large
B3GALNT	1	235449923	235504481	-0.256698369	PASS
B3GALT1	2	167868948	167874041	0.039726562	PASS
B3GALT2	1	193179045	193186654	-0.027073548	PASS
B3GALT4	6	33277132	33284832	0.048820648	PASS
B3GALT5	21	39556442	39673137	-0.064425456	suppress_segment_too_large
B3GALT6	1	1232226	1235041	0.373964873	suppress_segment_too_large
B3GAT1	11	134378504	134411918	-0.419612865	PASS
B3GAT2	6	70856679	70957038	-0.368590549	PASS
B3GAT3	11	62615296	62622175	0.182439925	suppress_segment_too_large
B3GLCT	13	31199936	31332276	-0.390786075	PASS
B3GNT2	2	62196113	62224731	-0.372959126	PASS
B3GNT3	19	17794828	17813082	0.093487731	suppress_segment_too_large
B3GNT4	12	122203543	122208952	0.202141228	PASS
B3GNT5	3	183253244	183298504	0.318278996	suppress_segment_too_large
B3GNT6	11	77034398	77041973	0.062969153	PASS
B3GNT7	2	231395543	231401164	0.025928102	PASS
B3GNT8	19	41425359	41428730	0.093487731	suppress_segment_too_large
B3GNT9	16	67148105	67151214	-0.371357732	PASS
B3GNTL1	17	82942155	83051810	0.088516311	PASS
B4GALNT	12	57623410	57633355	-0.202191512	PASS
B4GALNT	17	49132460	49176840	0.088516311	PASS

B4GALNT	12	460364	563509	-0.086128028	PASS
B4GALNT	11	369796	382116	-0.333835828	PASS
B4GALT1	9	33104082	33167356	-0.310444659	PASS
B4GALT2	1	43978943	43991170	0.033763446	PASS
B4GALT3	1	161171310	161177968	-0.027073548	PASS
B4GALT4	3	119211732	119241103	0.313454204	suppress_segment_too_large
B4GALT5	20	49632945	49713878	-0.168668583	PASS
B4GALT6	18	31622247	31685836	-0.376397843	PASS
B4GALT7	5	177600100	177610347	-0.150979337	PASS
B4GAT1	11	66345372	66347692	0.182439925	suppress_segment_too_large
B9D1	17	19337554	19378193	0.024610076	PASS
B9D2	19	41354421	41364173	0.093487731	suppress_segment_too_large
BAALC	8	103140710	103230305	0.279445683	PASS
BAAT	9	101360417	101383519	0.365190713	suppress_segment_too_large
BABAM1	19	17267350	17281249	0.093487731	suppress_segment_too_large
BABAM2	2	27889941	28338901	0.040498426	PASS
BACE1	11	117285207	117316259	-0.356188624	PASS
BACE2	21	41167801	41282518	-0.064425456	suppress_segment_too_large
BACH1	21	29194071	29630751	0.12860881	suppress_segment_too_large
BACH2	6	89926529	90296908	-0.368590549	PASS
BAD	11	64269830	64284704	0.182439925	suppress_segment_too_large
BAG1	9	33247820	33264720	-0.310444659	PASS
BAG2	6	57172326	57189833	0.048820648	PASS
BAG3	10	119651370	119677819	0.063874692	PASS
BAG4	8	38176533	38213301	-0.201142258	PASS
BAG5	14	103556544	103562831	-0.192197564	PASS
BAG6	6	31639028	31652705	0.048820648	PASS
BAHCC1	17	81395475	81466332	0.088516311	PASS
BAHD1	15	40439721	40468242	-0.396255771	PASS
BAIAP2	17	81035122	81117432	0.088516311	PASS
BAIAP2L1	7	98291651	98401068	-0.262778904	PASS
BAIAP2L2	22	38084889	38110670	-0.575930959	PASS
BAIAP3	16	1333601	1349441	0.069936844	PASS
BAK1	6	33572547	33580293	0.048820648	PASS
BAMBI	10	28677342	28682939	0.039811807	PASS
BANF1	11	66002079	66004149	0.182439925	suppress_segment_too_large
BANF2	20	17693672	17735871	-0.168668583	PASS
BANK1	4	101411286	102074812	-0.011382299	PASS
BANP	16	87949244	88077318	-0.371357732	PASS
BAP1	3	52401013	52410350	-0.234617007	PASS
BARD1	2	214725646	214809711	0.025928102	PASS
BARHL1	9	132582185	132590266	0.365190713	suppress_segment_too_large
BARHL2	1	90711539	90717237	0.033763446	PASS
BARX1	9	93951622	93955372	0.365190713	suppress_segment_too_large
BARX2	11	129375940	129452279	-0.419612865	PASS
BASP1	5	17065598	17276843	0.055007813	PASS

BATF	14	75522425	75547015	-0.192197564	PASS
BATF2	11	64987943	64997045	0.182439925	suppress_segment_too_large
BATF3	1	212686418	212699985	-0.256698369	PASS
BAX	19	48954815	48961798	0.14996833	PASS
BAZ1A	14	34752731	34875647	0.060212819	PASS
BAZ1B	7	73440398	73522278	-0.262778904	PASS
BAZ2A	12	56595596	56636816	-0.202191512	PASS
BAZ2B	2	159318979	159616692	0.039726562	PASS
BBC3	19	47220822	47232766	0.14996833	PASS
BBIP1	10	110898730	110919274	0.063874692	PASS
BBOF1	14	74019353	74082863	0.060212819	PASS
BBOX1	11	27040725	27127809	-0.405444717	PASS
BBS1	11	66510606	66533627	0.182439925	suppress_segment_too_large
BBS10	12	76344474	76348442	0.202141228	PASS
BBS12	4	122732702	122744943	-0.011382299	PASS
BBS2	16	56466836	56520283	-0.371357732	PASS
BBS4	15	72686179	72738476	-0.697600509	PASS
BBS5	2	169479178	169506655	0.039726562	PASS
BBS7	4	121824440	121870497	-0.011382299	PASS
BBS9	7	33129244	33606068	-0.69513118	PASS
BBX	3	107522936	107811324	0.313454204	suppress_segment_too_large
BCAM	19	44809059	44821421	0.14996833	PASS
BCAN	1	156641390	156659532	0.103015788	PASS
BCAP29	7	107579977	107629170	-0.388946609	PASS
BCAP31	23	153700492	153724746	-0.012567603	PASS
BCAR1	16	75228187	75268053	-0.371357732	PASS
BCAR3	1	93561786	93847150	0.033763446	PASS
BCAS1	20	53936777	54070594	-0.168668583	PASS
BCAS2	1	114567557	114581639	0.033763446	PASS
BCAS3	17	60677453	61392838	0.088516311	PASS
BCAS4	20	50794894	50882676	-0.168668583	PASS
BCAT1	12	24810022	24949459	0.362961408	suppress_segment_too_large
BCAT2	19	48795062	48811029	0.14996833	PASS
BCCIP	10	125823546	125853695	0.063874692	PASS
BCDIN3D	12	49836039	49843129	-0.202191512	PASS
BCHE	3	165772904	165837472	0.318278996	suppress_segment_too_large
BCKDHA	19	41397460	41425005	0.093487731	suppress_segment_too_large
BCKDHB	6	80106647	80346270	-0.368590549	PASS
BCKDK	16	31106107	31112791	0.069936844	PASS
BCL10	1	85265776	85276904	0.033763446	PASS
BCL11A	2	60450520	60555154	-0.372959126	PASS
BCL11B	14	99169287	99271524	-0.192197564	PASS
BCL2	18	63123346	63320128	-0.376397843	PASS
BCL2A1	15	79960889	79971446	-0.697600509	PASS
BCL2L1	20	31664452	31723989	-0.168668583	PASS
BCL2L10	15	52109263	52112775	-0.396255771	PASS

BCL2L11	2	111119378	111168447	-0.010901494	PASS
BCL2L12	19	49665142	49673916	0.14996833	PASS
BCL2L13	22	17628855	17730855	-0.575930959	PASS
BCL2L14	12	12049844	12211084	0.362961408	suppress_segment_too_large
BCL2L15	1	113878168	113887547	0.033763446	PASS
BCL2L2	14	23298790	23311759	0.060212819	PASS
BCL2L2-P.	14	23306835	23325369	0.060212819	PASS
BCL3	19	44747705	44760044	0.14996833	PASS
BCL6	3	187721377	187745727	0.318278996	suppress_segment_too_large
BCL6B	17	7023020	7030290	0.128406487	PASS
BCL7A	12	122019422	122062044	0.202141228	PASS
BCL7B	7	73536356	73558002	-0.262778904	PASS
BCL7C	16	30833626	30894960	0.069936844	PASS
BCL9	1	147541412	147626216	-0.157385092	PASS
BCL9L	11	118893875	118925608	-0.356188624	PASS
BCLAF1	6	136256627	136289851	-0.035448111	PASS
BCLAF3	23	19912860	19970298	-0.012567603	PASS
BCO1	16	81238448	81291142	-0.371357732	PASS
BCO2	11	112175467	112224699	-0.356188624	PASS
BCOR	23	40049815	40177329	-0.012567603	PASS
BCORL1	23	129981107	130058083	-0.012567603	PASS
BCR	22	23179704	23318037	-0.575930959	PASS
BCS1L	2	218658764	218663443	0.025928102	PASS
BDH1	3	197509783	197573323	0.326834516	PASS
BDH2	4	103079435	103099883	-0.011382299	PASS
BDKRB1	14	96255824	96268967	-0.192197564	PASS
BDKRB2	14	96204679	96244166	-0.192197564	PASS
BDNF	11	27654893	27722058	-0.405444717	PASS
BDP1	5	71455615	71567820	-0.293443042	PASS
BEAN1	16	66427297	66493529	-0.371357732	PASS
BECN1	17	42810134	42833350	0.088516311	PASS
BECN2	1	241957767	241959062	-0.648598641	PASS
BEGAIN	14	100537147	100587413	-0.192197564	PASS
BEND2	23	18162931	18220883	-0.012567603	PASS
BEND3	6	107065182	107115269	-0.368590549	PASS
BEND4	4	42110938	42152878	-0.011382299	PASS
BEND5	1	48727523	48776969	0.033763446	PASS
BEND6	6	56955126	57027342	0.048820648	PASS
BEND7	10	13438484	13528974	0.039811807	PASS
BEST1	11	61949821	61965515	0.182439925	suppress_segment_too_large
BEST2	19	12751702	12758458	0.093487731	suppress_segment_too_large
BEST3	12	69643360	69699476	-0.202191512	PASS
BEST4	1	44783585	44787705	0.033763446	PASS
BET1	7	93962762	94004382	-0.262778904	PASS
BET1L	11	167784	207428	-0.333835828	PASS
BEX1	23	103062651	103064240	-0.012567603	PASS

BEX2	23	103309346	103311046	-0.012567603	PASS
BEX3	23	103376340	103378077	-0.012567603	PASS
BEX4	23	103215092	103217246	-0.012567603	PASS
BEX5	23	102153708	102156057	-0.012567603	PASS
BFAR	16	14632815	14669236	0.069936844	PASS
BFSP1	20	17493905	17569220	-0.168668583	PASS
BFSP2	3	133399995	133475222	0.313454204	suppress_segment_too_large
BGLAP	1	156241962	156243321	0.103015788	PASS
BGN	23	153494939	153509554	-0.012567603	PASS
BHLHA15	7	98211427	98212979	-0.262778904	PASS
BHLHA9	17	1270559	1271460	0.128406487	PASS
BHLHB9	23	102720688	102753540	-0.012567603	PASS
BHLHE22	8	64580367	64583628	-0.201142258	PASS
BHLHE23	20	63005927	63007035	-0.168668583	PASS
BHLHE40	3	4979116	4985323	0.311018244	suppress_segment_too_large
BHLHE41	12	26120026	26125127	0.362961408	suppress_segment_too_large
BHMG1	19	45733251	45764534	0.14996833	PASS
BHMT	5	79111779	79132290	-0.293443042	PASS
BHMT2	5	79069717	79089466	-0.293443042	PASS
BICC1	10	58513140	58831437	0.072405807	PASS
BICD1	12	32106835	32383633	0.362961408	suppress_segment_too_large
BICD2	9	92711363	92764812	0.365190713	suppress_segment_too_large
BICDL1	12	119989869	120094494	0.202141228	PASS
BICDL2	16	3027682	3036926	0.069936844	PASS
BICRA	19	47608196	47703277	0.14996833	PASS
BICRAL	6	42746958	42868560	0.048820648	PASS
BID	22	17734138	17774770	-0.575930959	PASS
BIK	22	43110748	43129712	-0.575930959	PASS
BIN1	2	127048027	127107355	-0.475215623	PASS
BIN2	12	51281038	51324668	-0.202191512	PASS
BIN3	8	22620418	22669148	-0.345962679	PASS
BIRC2	11	102347211	102378670	0.062969153	PASS
BIRC3	11	102317450	102339403	0.062969153	PASS
BIRC5	17	78214186	78225636	0.088516311	PASS
BIRC6	2	32357028	32618899	0.040498426	PASS
BIRC7	20	63235883	63240507	-0.168668583	PASS
BIRC8	19	53289601	53291626	0.206912349	PASS
BIVM	13	102799049	102841535	-0.390786075	PASS
BIVM-ERC	13	102799110	102875994	-0.390786075	PASS
BLCAP	20	37492472	37527931	-0.168668583	PASS
BLID	11	122115354	122116215	-0.356188624	PASS
BLK	8	11486894	11564604	-0.345962679	PASS
BLM	15	90717327	90816165	-0.697600509	PASS
BLMH	17	30248195	30292056	0.060555011	PASS
BLNK	10	96191702	96271587	-0.367947924	PASS
BLOC1S1	12	55716037	55720087	-0.202191512	PASS

BLOC1S1-	12	55716036	55724703	-0.202191512	PASS
BLOC1S2	10	100273280	100286712	-0.367947924	PASS
BLOC1S3	19	45178745	45181801	0.14996833	PASS
BLOC1S4	4	6716055	6717671	0.279089364	PASS
BLOC1S5	6	8013567	8064414	0.048820648	PASS
BLOC1S5-	6	7881522	8064364	0.048820648	PASS
BLOC1S6	15	45587123	45615999	-0.396255771	PASS
BLVRA	7	43758680	43807342	-0.69513118	PASS
BLVRB	19	40447765	40465840	0.093487731	suppress_segment_too_large
BLZF1	1	169367970	169396540	-0.027073548	PASS
BMF	15	40087890	40108892	-0.396255771	PASS
BMI1	10	22321211	22331484	0.039811807	PASS
BMP1	8	22164736	22212326	-0.345962679	PASS
BMP10	2	68865481	68871517	-0.372959126	PASS
BMP15	23	50910784	50916607	-0.012567603	PASS
BMP2	20	6767664	6780280	-0.168668583	PASS
BMP2K	4	78776342	78916372	-0.011382299	PASS
BMP3	4	81030965	81057531	-0.011382299	PASS
BMP4	14	53949736	53958761	0.060212819	PASS
BMP5	6	55753645	55875564	0.048820648	PASS
BMP6	6	7726797	7881422	0.048820648	PASS
BMP7	20	57168748	57266629	-0.168668583	PASS
BMP8A	1	39491646	39525935	0.033763446	PASS
BMP8B	1	39757182	39788861	0.033763446	PASS
BMPER	7	33904308	34156356	-0.69513118	PASS
BMPR1A	10	86756601	86932838	-0.292453993	PASS
BMPR1B	4	94757968	95158448	-0.011382299	PASS
BMPR2	2	202376936	202567751	0.025928102	PASS
BMS1	10	42782801	42834937	-0.404852538	PASS
BMT2	7	112819147	112939916	-0.388946609	PASS
BMX	23	15464246	15556529	-0.012567603	PASS
BNC1	15	83255903	83284714	-0.697600509	PASS
BNC2	9	16409503	16870843	-0.310444659	PASS
BNIP1	5	173144442	173164387	-0.150979337	PASS
BNIP2	15	59659146	59689534	-0.697600509	PASS
BNIP3	10	131966455	131982013	0.063874692	PASS
BNIP3L	8	26382898	26505636	-0.345962679	PASS
BNIPL	1	151036321	151047720	0.103015788	PASS
BOC	3	113211003	113287459	0.313454204	suppress_segment_too_large
BOD1	5	173607514	173616660	-0.150979337	PASS
BOD1L1	4	13568738	13627723	0.279089364	PASS
BOD1L2	18	57147062	57150300	-0.376397843	PASS
BOLA1	1	149887890	149900798	0.103015788	PASS
BOLA2	16	29443056	29454964	0.069936844	PASS
BOLA2-SM	16	29443230	29454651	0.069936844	PASS
BOLA3	2	74135398	74147994	-0.372959126	PASS

BOLL	2	197726879	197786762	0.025928102	PASS
BOP1	8	144262102	144291370	0.307788765	PASS
BORA	13	72727749	72756198	-0.390786075	PASS
BORCS5	12	12357079	12469694	0.362961408	suppress_segment_too_large
BORCS6	17	8188333	8190907	0.128406487	PASS
BORCS7	10	102854223	102864961	-0.367947924	PASS
BORCS7-A	10	102854272	102901899	-0.367947924	PASS
BORCS8	19	19176903	19192591	0.093487731	suppress_segment_too_large
BORCS8-M	19	19145567	19192158	0.093487731	suppress_segment_too_large
BPGM	7	134646808	134679813	-0.388946609	PASS
BPHL	6	3118374	3153578	0.048820648	PASS
BPI	20	38304123	38337505	-0.168668583	PASS
BPIFA1	20	33235995	33243311	-0.168668583	PASS
BPIFA2	20	33161768	33181412	-0.168668583	PASS
BPIFA3	20	33217310	33227758	-0.168668583	PASS
BPIFB1	20	33273480	33309878	-0.168668583	PASS
BPIFB2	20	33007600	33023709	-0.168668583	PASS
BPIFB3	20	33055424	33073628	-0.168668583	PASS
BPIFB4	20	33079644	33111751	-0.168668583	PASS
BPIFB6	20	33031648	33044047	-0.168668583	PASS
BPIFC	22	32413847	32464484	-0.575930959	PASS
BPNT1	1	220057482	220090462	-0.256698369	PASS
BPTF	17	67825524	67984378	0.088516311	PASS
BRAF	7	140719327	140924928	-0.388946609	PASS
BRAP	12	111642146	111685986	0.202141228	PASS
BRAT1	7	2537877	2555727	-0.69513118	PASS
BRCA1	17	43044295	43170245	0.088516311	PASS
BRCA2	13	32315474	32400266	-0.390786075	PASS
BRCC3	23	155071420	155123074	-0.012567603	PASS
BRD1	22	49773283	49827512	-0.808211634	PASS
BRD2	6	32968660	32981505	0.048820648	PASS
BRD3	9	134030305	134068535	0.365190713	suppress_segment_too_large
BRD3OS	9	134025439	134034666	0.365190713	suppress_segment_too_large
BRD4	19	15235519	15332545	0.093487731	suppress_segment_too_large
BRD7	16	50313487	50368934	0.069936844	PASS
BRD8	5	138139766	138178986	-0.293443042	PASS
BRD9	5	850291	892824	0.055007813	PASS
BRDT	1	91949371	92014426	0.033763446	PASS
BRF1	14	105209286	105315589	-0.192197564	PASS
BRF2	8	37843268	37849904	-0.201142258	PASS
BRI3	7	98252379	98310441	-0.262778904	PASS
BRI3BP	12	124993700	125031231	0.202141228	PASS
BRICD5	16	2209253	2211950	0.069936844	PASS
BRINP1	9	119153458	119369467	0.365190713	suppress_segment_too_large
BRINP2	1	177171497	177282422	-0.027073548	PASS
BRINP3	1	190097662	190478404	-0.027073548	PASS

BRIP1	17	61681266	61863521	0.088516311	PASS
BRIX1	5	34915376	34925996	0.055007813	PASS
BRK1	3	10115592	10127190	0.311018244	suppress_segment_too_large
BRMS1	11	66337333	66345125	0.182439925	suppress_segment_too_large
BRMS1L	14	35826318	35932325	0.060212819	PASS
BROX	1	222712553	222735196	-0.256698369	PASS
BRPF1	3	9731729	9748018	0.311018244	suppress_segment_too_large
BRPF3	6	36196744	36232790	0.048820648	PASS
BRS3	23	136487887	136493780	-0.012567603	PASS
BRSK1	19	55282072	55312533	0.121336758	PASS
BRSK2	11	1389899	1462689	-0.333835828	PASS
BRWD1	21	39184176	39321559	-0.064425456	suppress_segment_too_large
BRWD3	23	80670854	80809688	-0.012567603	PASS
BSCL2	11	62690275	62709845	0.182439925	suppress_segment_too_large
BSDC1	1	32365103	32394731	0.033763446	PASS
BSG	19	571277	583493	0.079632875	PASS
BSN	3	49554489	49671545	-0.234617007	PASS
BSND	1	54998193	55011784	0.033763446	PASS
BSPH1	19	47968046	47992170	0.14996833	PASS
BSPRY	9	113349541	113371233	0.365190713	suppress_segment_too_large
BST1	4	15702950	15738313	0.279089364	PASS
BST2	19	17402939	17405648	0.093487731	suppress_segment_too_large
BSX	11	122977570	122981720	-0.356188624	PASS
BTAF1	10	91923769	92030325	-0.39678585	PASS
BTBD1	15	83016422	83067354	-0.697600509	PASS
BTBD10	11	13388001	13463297	-0.405444717	PASS
BTBD11	12	107318413	107659642	0.202141228	PASS
BTBD16	10	122271306	122338162	0.063874692	PASS
BTBD17	17	74356416	74361946	0.088516311	PASS
BTBD18	11	57743514	57751781	-0.129266491	PASS
BTBD19	1	44808482	44815585	0.033763446	PASS
BTBD2	19	1985438	2034881	0.079632875	PASS
BTBD3	20	11890723	11926609	-0.168668583	PASS
BTBD6	14	105248490	105251093	-0.192197564	PASS
BTBD7	14	93237550	93333092	-0.192197564	PASS
BTBD8	1	92080305	92184725	0.033763446	PASS
BTBD9	6	38168451	38640148	0.048820648	PASS
BTC	4	74744759	74794686	-0.011382299	PASS
BTD	3	15601341	15647640	0.311018244	suppress_segment_too_large
BTF3	5	73498408	73505635	-0.293443042	PASS
BTF3L4	1	52056125	52090716	0.033763446	PASS
BTG1	12	92140278	92145897	0.202141228	PASS
BTG2	1	203305491	203309602	-0.256698369	PASS
BTG3	21	17593653	17612947	0.12860881	suppress_segment_too_large
BTG4	11	111467526	111512354	-0.356188624	PASS
BTK	23	101349447	101390796	-0.012567603	PASS

BTLA	3	112463968	112499561	0.313454204	suppress_segment_too_large
BTN1A1	6	26501221	26510422	0.048820648	PASS
BTN2A1	6	26457904	26476621	0.048820648	PASS
BTN2A2	6	26383096	26394874	0.048820648	PASS
BTN3A1	6	26402237	26415216	0.048820648	PASS
BTN3A2	6	26365159	26378320	0.048820648	PASS
BTN3A3	6	26440472	26453415	0.048820648	PASS
BTNL2	6	32393963	32407128	0.048820648	PASS
BTNL3	5	180988845	181006727	-0.150979337	PASS
BTNL8	5	180899077	180950906	-0.150979337	PASS
BTNL9	5	181040225	181061523	-0.150979337	PASS
BTRC	10	101354033	101557321	-0.367947924	PASS
BUB1	2	110637698	110678114	-0.010901494	PASS
BUB1B	15	40161023	40221136	-0.396255771	PASS
BUB1B-PA	15	40217428	40276396	-0.396255771	PASS
BUB3	10	123154277	123170467	0.063874692	PASS
BUD13	11	116748170	116772988	-0.356188624	PASS
BUD23	7	73683025	73705161	-0.262778904	PASS
BUD31	7	99408641	99419616	-0.262778904	PASS
BVES	6	105096822	105137174	-0.368590549	PASS
BX276092.	23	71667542	71671524	-0.012567603	PASS
BYSL	6	41921188	41933046	0.048820648	PASS
BZW1	2	200810594	200827338	0.025928102	PASS
BZW2	7	16646131	16706523	-0.69513118	PASS
C10orf105	10	71711702	71737824	0.072405807	PASS
C10orf113	10	21125763	21146559	0.039811807	PASS
C10orf120	10	122697709	122699822	0.063874692	PASS
C10orf142	10	44292569	44294649	-0.404852538	PASS
C10orf143	10	130020025	130110817	0.063874692	PASS
C10orf53	10	49679651	49710261	-0.404852538	PASS
C10orf55	10	73909969	73922777	0.072405807	PASS
C10orf62	10	97589727	97590934	-0.367947924	PASS
C10orf67	10	23201916	23344845	0.039811807	PASS
C10orf71	10	49299193	49327487	-0.404852538	PASS
C10orf82	10	116663696	116670264	0.063874692	PASS
C10orf88	10	122930903	122954403	0.063874692	PASS
C10orf90	10	126424997	126670446	0.063874692	PASS
C10orf95	10	102449837	102451543	-0.367947924	PASS
C10orf99	10	84173738	84185294	0.072405807	PASS
C11orf1	11	111878935	111885975	-0.356188624	PASS
C11orf16	11	8920076	8933006	-0.405444717	PASS
C11orf21	11	2295645	2303049	-0.333835828	PASS
C11orf24	11	68261335	68272001	0.182439925	suppress_segment_too_large
C11orf40	11	4571423	4577820	-0.333835828	PASS
C11orf42	11	6205566	6211132	-0.957525224	PASS
C11orf45	11	128899565	128906035	-0.419612865	PASS

C11orf49	11	46936689	47164385	0.117376172	PASS
C11orf52	11	111918032	111926872	-0.356188624	PASS
C11orf53	11	111245805	111286401	-0.356188624	PASS
C11orf54	11	93741591	93764749	0.062969153	PASS
C11orf58	11	16613132	16756881	-0.405444717	PASS
C11orf65	11	108308519	108467531	-0.356188624	PASS
C11orf68	11	65916808	65919117	0.182439925	suppress_segment_too_large
C11orf71	11	114391443	114400511	-0.356188624	PASS
C11orf74	11	36594493	36659290	-0.405444717	PASS
C11orf80	11	66744451	66843328	0.182439925	suppress_segment_too_large
C11orf86	11	66975277	66977004	0.182439925	suppress_segment_too_large
C11orf87	11	109422120	109429114	-0.356188624	PASS
C11orf88	11	111514785	111537031	-0.356188624	PASS
C11orf91	11	33698261	33700801	-0.405444717	PASS
C11orf94	11	45906513	45907282	0.117376172	PASS
C11orf95	11	63759892	63768775	0.182439925	suppress_segment_too_large
C11orf96	11	43942505	43944338	0.117376172	PASS
C11orf97	11	94512432	94532123	0.062969153	PASS
C11orf98	11	62662816	62665217	0.182439925	suppress_segment_too_large
C12orf10	12	53299686	53307177	-0.202191512	PASS
C12orf29	12	88033846	88050160	0.202141228	PASS
C12orf4	12	4487728	4538508	-0.086128028	PASS
C12orf40	12	39626167	39908300	-0.202191512	PASS
C12orf42	12	103237591	103496010	0.202141228	PASS
C12orf43	12	121000486	121016502	0.202141228	PASS
C12orf45	12	104986310	105074197	0.202141228	PASS
C12orf49	12	116710185	116738070	0.202141228	PASS
C12orf50	12	87980035	88034037	0.202141228	PASS
C12orf54	12	48482498	48496386	-0.202191512	PASS
C12orf56	12	64264762	64391192	-0.202191512	PASS
C12orf57	12	6942978	6946003	-0.086128028	PASS
C12orf60	12	14803572	14906586	0.362961408	suppress_segment_too_large
C12orf65	12	123232916	123257959	0.202141228	PASS
C12orf66	12	64186316	64222296	-0.202191512	PASS
C12orf71	12	27081058	27082514	0.362961408	suppress_segment_too_large
C12orf73	12	103950202	103965708	0.202141228	PASS
C12orf75	12	105235290	105396097	0.202141228	PASS
C12orf76	12	110027028	110073686	0.202141228	PASS
C13orf42	13	51082119	51200252	-0.390786075	PASS
C14orf119	14	23094765	23100462	0.060212819	PASS
C14orf132	14	96039324	96093889	-0.192197564	PASS
C14orf177	14	98711613	98717766	-0.192197564	PASS
C14orf178	14	77760830	77769742	-0.192197564	PASS
C14orf180	14	104579684	104590515	-0.192197564	PASS
C14orf28	14	44897295	44907257	0.060212819	PASS
C14orf39	14	60396469	60515543	0.060212819	PASS

C14orf93	14	22985908	23010166	0.060212819	PASS
C15orf38-A	15	89834308	89912882	-0.697600509	PASS
C15orf39	15	75195643	75212169	-0.697600509	PASS
C15orf40	15	82988441	83011641	-0.697600509	PASS
C15orf41	15	36579611	36810248	-0.396255771	PASS
C15orf48	15	45430529	45448761	-0.396255771	PASS
C15orf53	15	38628005	39180499	-0.396255771	PASS
C15orf61	15	67521068	67530143	-0.697600509	PASS
C15orf62	15	40770080	40772449	-0.396255771	PASS
C15orf65	15	55408548	55418764	-0.697600509	PASS
C16orf45	16	15434295	15625028	0.069936844	PASS
C16orf46	16	81053497	81077267	-0.371357732	PASS
C16orf54	16	29742463	29746006	0.069936844	PASS
C16orf58	16	31489471	31509309	0.069936844	PASS
C16orf70	16	67109958	67148539	-0.371357732	PASS
C16orf71	16	4734272	4749396	0.069936844	PASS
C16orf72	16	9091648	9121640	0.069936844	PASS
C16orf74	16	85690084	85751129	-0.371357732	PASS
C16orf78	16	49373823	49399431	0.069936844	PASS
C16orf86	16	67666816	67668758	-0.371357732	PASS
C16orf87	16	46796607	46831411	0.069936844	PASS
C16orf89	16	5044122	5066110	0.069936844	PASS
C16orf90	16	3493484	3495480	0.069936844	PASS
C16orf91	16	1419744	1420800	0.069936844	PASS
C16orf92	16	30023334	30027736	0.069936844	PASS
C16orf95	16	87083562	87317420	-0.371357732	PASS
C16orf96	16	4556490	4600714	0.069936844	PASS
C17orf100	17	6651718	6693202	0.128406487	PASS
C17orf107	17	4899418	4902932	0.128406487	PASS
C17orf113	17	42038232	42050614	0.060555011	PASS
C17orf47	17	58541587	58544368	0.088516311	PASS
C17orf49	17	7014495	7017525	0.128406487	PASS
C17orf50	17	35760897	35765079	0.060555011	PASS
C17orf51	17	21428381	21574517	0.060555011	PASS
C17orf53	17	44141906	44162476	0.088516311	PASS
C17orf58	17	67991101	67996431	0.088516311	PASS
C17orf64	17	60392429	60431421	0.088516311	PASS
C17orf67	17	56791913	56838773	0.088516311	PASS
C17orf75	17	32324565	32350023	0.060555011	PASS
C17orf78	17	37375986	37392708	0.060555011	PASS
C17orf80	17	73232233	73248947	0.088516311	PASS
C17orf97	17	410327	431062	0.128406487	PASS
C17orf98	17	38835088	38841455	0.060555011	PASS
C17orf99	17	78146353	78166177	0.088516311	PASS
C18orf21	18	35972083	35979286	-0.376397843	PASS
C18orf25	18	46173553	46266991	-0.376397843	PASS

C18orf32	18	49477250	49487252	-0.376397843	PASS
C18orf54	18	54357917	54385218	-0.376397843	PASS
C18orf63	18	74315813	74359187	-0.376397843	PASS
C19orf12	19	29698886	29715789	0.093487731	suppress_segment_too_large
C19orf18	19	57958437	57974534	-0.180829161	PASS
C19orf24	19	1275438	1279249	0.079632875	PASS
C19orf25	19	1461143	1479556	0.079632875	PASS
C19orf33	19	38304161	38305009	0.093487731	suppress_segment_too_large
C19orf38	19	10836575	10869790	0.093487731	suppress_segment_too_large
C19orf44	19	16496311	16521352	0.093487731	suppress_segment_too_large
C19orf47	19	40319536	40348527	0.093487731	suppress_segment_too_large
C19orf48	19	50797704	50804929	-0.016761391	PASS
C19orf53	19	13774168	13778462	0.093487731	suppress_segment_too_large
C19orf54	19	40740856	40751553	0.093487731	suppress_segment_too_large
C19orf57	19	13882348	13906452	0.093487731	suppress_segment_too_large
C19orf66	19	10086122	10093252	0.093487731	suppress_segment_too_large
C19orf67	19	14081619	14085875	0.093487731	suppress_segment_too_large
C19orf70	19	5678421	5680896	0.079632875	PASS
C19orf71	19	3539154	3544030	0.079632875	PASS
C19orf73	19	49118397	49119140	0.14996833	PASS
C19orf81	19	50649445	50659310	-0.016761391	PASS
C19orf84	19	51388289	51390574	-0.016761391	PASS
C1D	2	68041130	68110948	-0.372959126	PASS
C1GALT1	7	7156934	7248651	-0.69513118	PASS
C1GALT1(	23	120625793	120630150	-0.012567603	PASS
C1GALT1(	2	43675151	43676322	0.040498426	PASS
C1QA	1	22636506	22639608	0.033763446	PASS
C1QB	1	22652762	22661538	0.033763446	PASS
C1QBP	17	5432777	5448830	0.128406487	PASS
C1QC	1	22643630	22648110	0.033763446	PASS
C1QL1	17	44959693	44968071	0.088516311	PASS
C1QL2	2	119156243	119158889	-0.475215623	PASS
C1QL3	10	16513743	16522005	0.039811807	PASS
C1QL4	12	49332411	49337188	-0.202191512	PASS
C1QTNF1	17	79022814	79049788	0.088516311	PASS
C1QTNF12	1	1242446	1246722	0.373964873	suppress_segment_too_large
C1QTNF2	5	160347751	160370641	-0.150979337	PASS
C1QTNF3	5	34019448	34043832	0.055007813	PASS
C1QTNF3-	5	33987174	34124528	0.055007813	PASS
C1QTNF4	11	47589664	47594659	0.117376172	PASS
C1QTNF5	11	119338939	119340940	-0.356188624	PASS
C1QTNF6	22	37180167	37199385	-0.575930959	PASS
C1QTNF7	4	15339818	15446166	0.279089364	PASS
C1QTNF8	16	1090005	1096244	0.069936844	PASS
C1QTNF9	13	24307166	24322535	-0.390786075	PASS
C1QTNF9I	13	23890525	23902655	-0.390786075	PASS

C1R	12	7080199	7092607	-0.086128028	PASS
C1RL	12	7089587	7109273	-0.086128028	PASS
C1S	12	6988259	7071032	-0.086128028	PASS
C1orf100	1	244352635	244389663	-0.368111568	PASS
C1orf105	1	172420688	172468831	-0.027073548	PASS
C1orf109	1	37681570	37692249	0.033763446	PASS
C1orf112	1	169662007	169854080	-0.027073548	PASS
C1orf115	1	220689845	220699157	-0.256698369	PASS
C1orf116	1	207018521	207032756	-0.256698369	PASS
C1orf122	1	37806979	37809454	0.033763446	PASS
C1orf123	1	53214099	53220617	0.033763446	PASS
C1orf127	1	10946471	10982037	0.373964873	suppress_segment_too_large
C1orf131	1	231223763	231241187	-0.256698369	PASS
C1orf141	1	67092165	67231853	0.033763446	PASS
C1orf146	1	92217940	92245813	0.033763446	PASS
C1orf158	1	12746215	12763699	-0.415253068	PASS
C1orf159	1	1081818	1116361	0.373964873	suppress_segment_too_large
C1orf162	1	111473792	111478512	0.033763446	PASS
C1orf167	1	11761787	11789585	0.373964873	suppress_segment_too_large
C1orf174	1	3889125	3900293	0.373964873	suppress_segment_too_large
C1orf185	1	51102221	51148086	0.033763446	PASS
C1orf189	1	154199372	154206333	0.103015788	PASS
C1orf194	1	109105951	109113857	0.033763446	PASS
C1orf198	1	230837119	230869589	-0.256698369	PASS
C1orf21	1	184387058	184629020	-0.027073548	PASS
C1orf210	1	43281883	43285617	0.033763446	PASS
C1orf216	1	35713875	35719472	0.033763446	PASS
C1orf226	1	162366908	162386818	-0.027073548	PASS
C1orf232	1	26164161	26168581	0.033763446	PASS
C1orf35	1	228100726	228105411	-0.256698369	PASS
C1orf43	1	154206696	154220637	0.103015788	PASS
C1orf50	1	42767269	42779488	0.033763446	PASS
C1orf52	1	85249953	85259672	0.033763446	PASS
C1orf53	1	197902647	197907367	-0.027073548	PASS
C1orf54	1	150268200	150280916	0.103015788	PASS
C1orf56	1	151047740	151051986	0.103015788	PASS
C1orf61	1	156404250	156430701	0.103015788	PASS
C1orf68	1	152719522	152720470	0.103015788	PASS
C1orf74	1	209779208	209784559	-0.256698369	PASS
C1orf87	1	59987269	60073770	0.033763446	PASS
C1orf94	1	34166883	34219131	0.033763446	PASS
C2	6	31897785	31945672	0.048820648	PASS
C20orf141	20	2814987	2815833	-0.168668583	PASS
C20orf144	20	33662284	33665619	-0.168668583	PASS
C20orf173	20	35523186	35529652	-0.168668583	PASS
C20orf194	20	3249305	3407625	-0.168668583	PASS

C20orf202	20	1203454	1208274	-0.168668583	PASS
C20orf203	20	32631652	32673941	-0.168668583	PASS
C20orf204	20	64034344	64039962	-0.168668583	PASS
C20orf27	20	3753508	3768387	-0.168668583	PASS
C20orf85	20	58150904	58161150	-0.168668583	PASS
C20orf96	20	270863	290778	-0.168668583	PASS
C21orf58	21	46300181	46323875	-0.064425456	suppress_segment_too_large
C21orf62	21	32793564	32813743	0.12860881	suppress_segment_too_large
C21orf91	21	17788967	17819386	0.12860881	suppress_segment_too_large
C22orf15	22	23763021	23765861	-0.575930959	PASS
C22orf23	22	37943050	37953669	-0.575930959	PASS
C22orf31	22	29058672	29061844	-0.575930959	PASS
C22orf39	22	19351368	19448232	-0.575930959	PASS
C22orf42	22	32149006	32159322	-0.575930959	PASS
C22orf46	22	41688939	41698136	-0.575930959	PASS
C2CD2	21	41885112	41953890	-0.064425456	suppress_segment_too_large
C2CD2L	11	119102198	119118544	-0.356188624	PASS
C2CD3	11	74012714	74171210	0.062969153	PASS
C2CD4A	15	62066977	62070917	-0.697600509	PASS
C2CD4B	15	62163535	62165283	-0.697600509	PASS
C2CD4C	19	405438	409170	0.079632875	PASS
C2CD4D	1	151837819	151840557	0.103015788	PASS
C2CD5	12	22448583	22544546	0.362961408	suppress_segment_too_large
C2CD6	2	201487425	201619178	0.025928102	PASS
C2orf15	2	99141485	99151487	0.048238121	PASS
C2orf16	2	27537386	27582721	0.040498426	PASS
C2orf40	2	106063246	106078159	-0.532032081	PASS
C2orf42	2	70149880	70248615	-0.372959126	PASS
C2orf49	2	105337359	105349211	-0.532032081	PASS
C2orf50	2	11133053	11146790	0.040498426	PASS
C2orf66	2	196805002	196810276	0.025928102	PASS
C2orf68	2	85606654	85612066	0.066915641	PASS
C2orf69	2	199911256	199955935	0.025928102	PASS
C2orf70	2	26562582	26579532	0.040498426	PASS
C2orf72	2	231037490	231049719	0.025928102	PASS
C2orf73	2	54330034	54383742	0.040498426	PASS
C2orf74	2	61145068	61164829	-0.372959126	PASS
C2orf76	2	119302225	119366828	-0.475215623	PASS
C2orf78	2	73784189	73817147	-0.372959126	PASS
C2orf80	2	208165343	208190073	0.025928102	PASS
C2orf81	2	74414176	74421591	-0.372959126	PASS
C2orf83	2	227610090	227648606	0.025928102	PASS
C2orf88	2	189879609	190203484	0.025928102	PASS
C2orf91	2	41935368	41956806	0.040498426	PASS
C3	19	6677704	6730562	0.079632875	PASS
C3AR1	12	8058302	8066471	-0.086128028	PASS

C3orf14	3	62318973	62336213	-0.234617007	PASS
C3orf18	3	50558025	50571027	-0.234617007	PASS
C3orf20	3	14675099	14773034	0.311018244	suppress_segment_too_large
C3orf22	3	126526999	126558965	0.313454204	suppress_segment_too_large
C3orf30	3	119146150	119160042	0.313454204	suppress_segment_too_large
C3orf33	3	155762617	155806351	0.318278996	suppress_segment_too_large
C3orf38	3	88149743	88168729	0.313454204	suppress_segment_too_large
C3orf49	3	63819362	63848636	-0.234617007	PASS
C3orf52	3	112086335	112131004	0.313454204	suppress_segment_too_large
C3orf56	3	127193131	127198185	0.313454204	suppress_segment_too_large
C3orf58	3	143971798	144048719	0.318278996	suppress_segment_too_large
C3orf62	3	49268602	49277909	-0.234617007	PASS
C3orf67	3	58717365	59050084	-0.234617007	PASS
C3orf70	3	185078050	185153014	0.318278996	suppress_segment_too_large
C3orf80	3	160225496	160228213	0.318278996	suppress_segment_too_large
C3orf84	3	49177632	49191858	-0.234617007	PASS
C3orf85	3	109118252	109150514	0.313454204	suppress_segment_too_large
C4A	6	31982024	32002681	0.048820648	PASS
C4B	6	32014795	32035418	0.048820648	PASS
C4BPA	1	207104262	207144972	-0.256698369	PASS
C4BPB	1	207088842	207099993	-0.256698369	PASS
C4orf17	4	99511004	99542303	-0.011382299	PASS
C4orf19	4	37453941	37623495	-0.011382299	PASS
C4orf3	4	119296419	119304445	-0.011382299	PASS
C4orf33	4	129093317	129116640	-0.011382299	PASS
C4orf36	4	86876205	86892422	-0.011382299	PASS
C4orf45	4	158893134	159038760	-0.011382299	PASS
C4orf46	4	158666679	158672255	-0.011382299	PASS
C4orf47	4	185426249	185449826	-0.462744716	PASS
C4orf48	4	2041993	2043970	0.279089364	PASS
C4orf50	4	5897373	6200555	0.279089364	PASS
C4orf51	4	145680115	145771032	-0.011382299	PASS
C4orf54	4	99636529	99654648	-0.011382299	PASS
C5	9	120952335	121050276	0.365190713	suppress_segment_too_large
C5AR1	19	47290023	47322066	0.14996833	PASS
C5AR2	19	47332147	47347327	0.14996833	PASS
C5orf15	5	133955502	133968787	-0.293443042	PASS
C5orf22	5	31532266	31555058	0.055007813	PASS
C5orf24	5	134845680	134859737	-0.293443042	PASS
C5orf30	5	103258702	103278660	-0.293443042	PASS
C5orf34	5	43486701	43515145	-0.293443042	PASS
C5orf38	5	2752131	2755397	0.055007813	PASS
C5orf46	5	147880726	147906538	-0.293443042	PASS
C5orf47	5	173973779	174006140	-0.150979337	PASS
C5orf49	5	7830378	7851490	0.055007813	PASS
C5orf51	5	41904188	41921636	-0.293443042	PASS

C5orf52	5	157671553	157680143	-0.150979337	PASS
C5orf58	5	170232447	170252575	-0.150979337	PASS
C5orf60	5	179641544	179645046	-0.150979337	PASS
C5orf63	5	127042558	127073492	-0.293443042	PASS
C5orf67	5	56511567	56606232	-0.293443042	PASS
C6	5	41142234	41261438	-0.293443042	PASS
C6orf10	6	32288526	32371912	0.048820648	PASS
C6orf106	6	34587288	34696859	0.048820648	PASS
C6orf118	6	165279664	165309607	-0.035448111	PASS
C6orf120	6	169702190	169704856	-0.035448111	PASS
C6orf132	6	42101118	42142619	0.048820648	PASS
C6orf136	6	30647039	30653210	0.048820648	PASS
C6orf141	6	49550646	49561907	0.048820648	PASS
C6orf15	6	31111223	31112559	0.048820648	PASS
C6orf163	6	87344849	87365463	-0.368590549	PASS
C6orf201	6	4079206	4130951	0.048820648	PASS
C6orf203	6	107028213	107051342	-0.368590549	PASS
C6orf222	6	36315757	36336885	0.048820648	PASS
C6orf223	6	44000580	44005958	0.048820648	PASS
C6orf226	6	42890265	42890816	0.048820648	PASS
C6orf47	6	31658298	31660772	0.048820648	PASS
C6orf48	6	31834608	31839766	0.048820648	PASS
C6orf52	6	10671418	10694797	0.048820648	PASS
C6orf58	6	127519455	127591817	-0.458570262	PASS
C6orf62	6	24704861	24720836	0.048820648	PASS
C6orf89	6	36871870	36928964	0.048820648	PASS
C7	5	40909252	40982939	-0.293443042	PASS
C7orf25	7	42908726	42912305	-0.69513118	PASS
C7orf26	7	6590017	6608726	-0.69513118	PASS
C7orf31	7	25134697	25180356	-0.69513118	PASS
C7orf33	7	148590565	148615860	-0.388946609	PASS
C7orf43	7	100154420	100158715	-0.262778904	PASS
C7orf50	7	996986	1138260	-0.69513118	PASS
C7orf55-LI	7	139341360	139422599	-0.388946609	PASS
C7orf57	7	48035511	48061304	-0.69513118	PASS
C7orf61	7	100456615	100464271	-0.262778904	PASS
C7orf77	7	124777292	124790810	-0.388946609	PASS
C8A	1	56854806	56918221	0.033763446	PASS
C8B	1	56929210	56966140	0.033763446	PASS
C8G	9	136945185	136946975	0.365190713	suppress_segment_too_large
C8orf33	8	145052378	145066685	0.307788765	PASS
C8orf34	8	68330722	68819022	-0.201142258	PASS
C8orf37	8	95244919	95269201	0.279445683	PASS
C8orf44	8	66667615	66685564	-0.201142258	PASS
C8orf48	8	13566843	13568287	-0.345962679	PASS
C8orf58	8	22599601	22604150	-0.345962679	PASS

C8orf59	8	85214076	85220421	0.279445683	PASS
C8orf74	8	10672637	10700593	-0.345962679	PASS
C8orf76	8	123219957	123241398	0.279445683	PASS
C8orf82	8	144525733	144529132	0.307788765	PASS
C8orf86	8	38510834	38560939	-0.201142258	PASS
C8orf88	8	90958637	90985257	0.279445683	PASS
C8orf89	8	73241329	73259502	-0.201142258	PASS
C9	5	39284262	39424868	0.055007813	PASS
C9orf116	9	135495181	135501734	0.365190713	suppress_segment_too_large
C9orf129	9	93318199	93346414	0.365190713	suppress_segment_too_large
C9orf131	9	35041095	35045991	-0.310444659	PASS
C9orf135	9	69820793	69906232	0.365190713	suppress_segment_too_large
C9orf152	9	110190048	110208189	0.365190713	suppress_segment_too_large
C9orf153	9	86220265	86259657	0.365190713	suppress_segment_too_large
C9orf16	9	128160260	128163928	0.365190713	suppress_segment_too_large
C9orf24	9	34379019	34397832	-0.310444659	PASS
C9orf3	9	94726701	95087218	0.365190713	suppress_segment_too_large
C9orf40	9	74946581	74952886	0.365190713	suppress_segment_too_large
C9orf43	9	113410054	113429684	0.365190713	suppress_segment_too_large
C9orf50	9	129612225	129620776	0.365190713	suppress_segment_too_large
C9orf57	9	72051376	72072721	0.365190713	suppress_segment_too_large
C9orf64	9	83938311	83956986	0.365190713	suppress_segment_too_large
C9orf66	9	212824	215893	-0.310444659	PASS
C9orf72	9	27546545	27573866	-0.310444659	PASS
C9orf78	9	129827290	129835863	0.365190713	suppress_segment_too_large
C9orf84	9	111686173	111795008	0.365190713	suppress_segment_too_large
C9orf85	9	71911510	71986054	0.365190713	suppress_segment_too_large
C9orf92	9	16203935	16410990	-0.310444659	PASS
CA1	8	85327608	85379014	0.279445683	PASS
CA10	17	51630313	52160017	0.088516311	PASS
CA11	19	48637942	48646312	0.14996833	PASS
CA12	15	63321378	63382161	-0.697600509	PASS
CA13	8	85220587	85284073	0.279445683	PASS
CA14	1	150257159	150265078	0.103015788	PASS
CA2	8	85463852	85481493	0.279445683	PASS
CA3	8	85373436	85449040	0.279445683	PASS
CA4	17	60149936	60170899	0.088516311	PASS
CA5A	16	87881546	87936580	-0.371357732	PASS
CA5B	23	15688830	15788409	-0.012567603	PASS
CA6	1	8945867	8975092	0.373964873	suppress_segment_too_large
CA7	16	66844379	66854153	-0.371357732	PASS
CA8	8	60187347	60281412	-0.201142258	PASS
CA9	9	35673856	35681159	-0.310444659	PASS
CAAP1	9	26840685	26892804	-0.310444659	PASS
CAB39	2	230712845	230821075	0.025928102	PASS
CAB39L	13	49308650	49444126	-0.390786075	PASS

CABCOCC	10	61662961	61766766	0.072405807	PASS
CABIN1	22	24011192	24178628	-0.575930959	PASS
CABLES1	18	23134564	23260467	-0.376397843	PASS
CABLES2	20	62388632	62407285	-0.168668583	PASS
CABP1	12	120640552	120667324	0.202141228	PASS
CABP2	11	67518912	67524517	0.182439925	suppress_segment_too_large
CABP4	11	67452406	67460313	0.182439925	suppress_segment_too_large
CABP5	19	48029953	48044053	0.14996833	PASS
CABP7	22	29720084	29731839	-0.575930959	PASS
CABS1	4	70334966	70337116	-0.011382299	PASS
CABYR	18	24138956	24161603	-0.376397843	PASS
CACFD1	9	133459965	133470848	0.365190713	suppress_segment_too_large
CACHD1	1	64470792	64693058	0.033763446	PASS
CACNA1A	19	13206442	13633025	0.093487731	suppress_segment_too_large
CACNA1B	9	137877789	138124624	0.365190713	suppress_segment_too_large
CACNA1C	12	1970786	2697950	-0.086128028	PASS
CACNA1D	3	53328963	53813733	-0.234617007	PASS
CACNA1E	1	181317690	181808084	-0.027073548	PASS
CACNA1F	23	49205063	49233371	-0.012567603	PASS
CACNA1G	17	50561068	50627474	0.088516311	PASS
CACNA1H	16	1153121	1221772	0.069936844	PASS
CACNA1I	22	39570753	39689737	-0.575930959	PASS
CACNA1S	1	201039512	201112566	-0.256698369	PASS
CACNA2D	7	81946444	82443798	-0.262778904	PASS
CACNA2D	3	50362799	50504244	-0.234617007	PASS
CACNA2D	3	54122547	55074557	-0.234617007	PASS
CACNA2D	12	1791957	1918836	-0.086128028	PASS
CACNB1	17	39173456	39197703	0.060555011	PASS
CACNB2	10	18140677	18543557	0.039811807	PASS
CACNB3	12	48813794	48828941	-0.202191512	PASS
CACNB4	2	151832768	152099475	-0.475215623	PASS
CACNG1	17	67044590	67056797	0.088516311	PASS
CACNG2	22	36563921	36703558	-0.575930959	PASS
CACNG3	16	24255553	24362801	0.069936844	PASS
CACNG4	17	66964910	67033398	0.088516311	PASS
CACNG5	17	66835117	66885486	0.088516311	PASS
CACNG6	19	53992288	54012669	0.206912349	PASS
CACNG7	19	53909335	53943941	0.206912349	PASS
CACNG8	19	53963040	53990215	0.206912349	PASS
CACTIN	19	3610641	3626815	0.079632875	PASS
CACUL1	10	118674167	118755249	0.063874692	PASS
CACYBP	1	174999163	175011715	-0.027073548	PASS
CAD	2	27217390	27243943	0.040498426	PASS
CADM1	11	115169218	115504957	-0.356188624	PASS
CADM2	3	84958981	86074429	0.313454204	suppress_segment_too_large
CADM3	1	159171609	159203313	-0.467855874	PASS

CADM4	19	43622368	43639839	0.14996833	PASS
CADPS	3	62398346	62875389	-0.234617007	PASS
CADPS2	7	122318425	122886759	-0.388946609	PASS
CAGE1	6	7326656	7389743	0.048820648	PASS
CALB1	8	90058608	90095475	0.279445683	PASS
CALB2	16	71358713	71390438	-0.371357732	PASS
CALCA	11	14966668	14972354	-0.405444717	PASS
CALCB	11	14904997	15082342	-0.405444717	PASS
CALCOCC	12	53708517	53727745	-0.202191512	PASS
CALCOCC	17	48830988	48866522	0.088516311	PASS
CALCR	7	93424487	93574730	-0.262778904	PASS
CALCRL	2	187343129	187448460	0.025928102	PASS
CALD1	7	134744252	134970728	-0.388946609	PASS
CALHM1	10	103453387	103458888	-0.367947924	PASS
CALHM2	10	103446786	103452402	-0.367947924	PASS
CALHM3	10	103472804	103479240	-0.367947924	PASS
CALHM4	6	116529013	116558868	-0.368590549	PASS
CALHM5	6	116511646	116524792	-0.368590549	PASS
CALHM6	6	116461370	116463779	-0.368590549	PASS
CALM1	14	90396502	90408261	-0.192197564	PASS
CALM2	2	47160082	47176601	0.040498426	PASS
CALM3	19	46601074	46610793	0.14996833	PASS
CALML3	10	5524009	5526771	0.039811807	PASS
CALML4	15	68190705	68206110	-0.697600509	PASS
CALML5	10	5498697	5499555	0.039811807	PASS
CALML6	1	1914827	1917296	0.373964873	suppress_segment_too_large
CALN1	7	71779491	72447151	-0.750061359	PASS
CALR	19	12938578	12944489	0.093487731	suppress_segment_too_large
CALR3	19	16479057	16496192	0.093487731	suppress_segment_too_large
CALU	7	128739292	128771807	-0.388946609	PASS
CALY	10	133324072	133336935	0.063874692	PASS
CAMK1	3	9757342	9769992	0.311018244	suppress_segment_too_large
CAMK1D	10	12349482	12835545	0.039811807	PASS
CAMK1G	1	209583717	209613938	-0.256698369	PASS
CAMK2A	5	150219491	150290291	-0.293443042	PASS
CAMK2B	7	44217150	44334577	-0.69513118	PASS
CAMK2D	4	113451032	113761927	-0.011382299	PASS
CAMK2G	10	73812501	73874591	0.072405807	PASS
CAMK2N1	1	20482391	20486220	0.033763446	PASS
CAMK2N2	3	184259213	184261463	0.318278996	suppress_segment_too_large
CAMK4	5	111223653	111494886	-0.293443042	PASS
CAMKK1	17	3860315	3894891	0.128406487	PASS
CAMKK2	12	121237691	121298308	0.202141228	PASS
CAMKMT	2	44361950	44772592	0.040498426	PASS
CAMKV	3	49857988	49870222	-0.234617007	PASS
CAMLG	5	134738501	134752160	-0.293443042	PASS

CAMP	3	48223347	48225491	-0.234617007	PASS
CAMSAP1	9	135808487	135907228	0.365190713	suppress_segment_too_large
CAMSAP2	1	200739558	200860704	-0.256698369	PASS
CAMSAP3	19	7595902	7618304	0.079632875	PASS
CAMTA1	1	6785324	7769706	0.373964873	suppress_segment_too_large
CAMTA2	17	4967992	4987652	0.128406487	PASS
CAND1	12	67269281	67319951	-0.202191512	PASS
CAND2	3	12796472	12871916	0.311018244	suppress_segment_too_large
CANT1	17	78991717	79009867	0.088516311	PASS
CANX	5	179678628	179730925	-0.150979337	PASS
CAP1	1	40040233	40072649	0.033763446	PASS
CAP2	6	17393216	17557792	0.048820648	PASS
CAPG	2	85394748	85418432	0.066915641	PASS
CAPN1	11	65180566	65212006	0.182439925	suppress_segment_too_large
CAPN10	2	240586716	240617705	0.025928102	PASS
CAPN11	6	44158811	44184402	0.048820648	PASS
CAPN12	19	38730187	38769904	0.093487731	suppress_segment_too_large
CAPN13	2	30722771	30820542	0.040498426	PASS
CAPN14	2	31173056	31233858	0.040498426	PASS
CAPN15	16	527717	554636	0.069936844	PASS
CAPN2	1	223701593	223776018	-0.256698369	PASS
CAPN3	15	42359500	42412318	-0.396255771	PASS
CAPN5	11	77066941	77126155	0.062969153	PASS
CAPN6	23	111245103	111270523	-0.012567603	PASS
CAPN7	3	15206152	15252918	0.311018244	suppress_segment_too_large
CAPN8	1	223538007	223665734	-0.256698369	PASS
CAPN9	1	230747384	230802003	-0.256698369	PASS
CAPNS1	19	36139575	36150353	0.093487731	suppress_segment_too_large
CAPNS2	16	55566672	55567687	-0.371357732	PASS
CAPRIN1	11	34051683	34101156	-0.405444717	PASS
CAPRIN2	12	30709552	30754951	0.362961408	suppress_segment_too_large
CAPS	19	5911707	5915877	0.079632875	PASS
CAPS2	12	75275979	75390928	0.202141228	PASS
CAPSL	5	35904295	35938779	0.055007813	PASS
CAPZA1	1	112619173	112671619	0.033763446	PASS
CAPZA2	7	116811070	116922049	-0.388946609	PASS
CAPZA3	12	18738101	18739187	0.362961408	suppress_segment_too_large
CAPZB	1	19338776	19485539	0.033763446	PASS
CARD10	22	37490362	37519542	-0.575930959	PASS
CARD11	7	2906141	3043945	-0.69513118	PASS
CARD14	17	80169992	80209331	0.088516311	PASS
CARD16	11	105041326	105101431	0.062969153	PASS
CARD17	11	105092469	105101431	0.062969153	PASS
CARD18	11	105137721	105531697	0.062969153	PASS
CARD19	9	93096218	93113283	0.365190713	suppress_segment_too_large
CARD6	5	40841184	40860175	-0.293443042	PASS

CARD8	19	48180770	48255946	0.14996833	PASS
CARD9	9	136361903	136373681	0.365190713	suppress_segment_too_large
CARF	2	202912214	202987063	0.025928102	PASS
CARHSP1	16	8852942	8869012	0.069936844	PASS
CARM1	19	10871513	10923070	0.093487731	suppress_segment_too_large
CARMIL1	6	25279078	25620530	0.048820648	PASS
CARMIL2	16	67644919	67657569	-0.371357732	PASS
CARMIL3	14	24052000	24069728	0.060212819	PASS
CARNMT1	9	74981020	75028423	0.365190713	suppress_segment_too_large
CARNS1	11	67414968	67425607	0.182439925	suppress_segment_too_large
CARS	11	3000922	3057613	-0.333835828	PASS
CARS2	13	110641412	110713603	-0.390786075	PASS
CARTPT	5	71719163	71721048	-0.293443042	PASS
CASC1	12	25108420	25195162	0.362961408	suppress_segment_too_large
CASC10	10	21492658	21497262	0.039811807	PASS
CASC3	17	40140318	40172183	0.060555011	PASS
CASC4	15	44288729	44415758	-0.396255771	PASS
CASD1	7	94509219	94557019	-0.262778904	PASS
CASK	23	41514934	41923645	-0.012567603	PASS
CASKIN1	16	2177180	2196525	0.069936844	PASS
CASKIN2	17	75500261	75515583	0.088516311	PASS
CASP1	11	105025443	105035250	0.062969153	PASS
CASP10	2	201182881	201229406	0.025928102	PASS
CASP14	19	15049384	15058293	0.093487731	suppress_segment_too_large
CASP2	7	143288215	143307696	-0.388946609	PASS
CASP3	4	184627696	184649509	-0.462744716	PASS
CASP4	11	104942866	104969436	0.062969153	PASS
CASP5	11	104994235	105023168	0.062969153	PASS
CASP6	4	109688622	109703583	-0.011382299	PASS
CASP7	10	113679162	113730907	0.063874692	PASS
CASP8	2	201233443	201287711	0.025928102	PASS
CASP8AP2	6	89829894	89874436	-0.368590549	PASS
CASP9	1	15490832	15526534	0.033763446	PASS
CASQ1	1	160190556	160201886	-0.027073548	PASS
CASQ2	1	115700007	115768781	0.033763446	PASS
CASR	3	122183683	122291629	0.313454204	suppress_segment_too_large
CASS4	20	56412112	56460387	-0.168668583	PASS
CAST	5	96525267	96779595	-0.293443042	PASS
CASTOR1	22	30285117	30289627	-0.575930959	PASS
CASTOR2	7	74964818	75024798	-0.262778904	PASS
CASTOR3	7	100200653	100272232	-0.262778904	PASS
CASZ1	1	10636604	10796650	0.373964873	suppress_segment_too_large
CAT	11	34438925	34472062	-0.405444717	PASS
CATIP	2	218356856	218368099	0.025928102	PASS
CATSPER1	11	66016752	66026517	0.182439925	suppress_segment_too_large
CATSPER2	15	43628503	43668118	-0.396255771	PASS

CATSPER3	5	134967906	135011707	-0.293443042	PASS
CATSPER4	1	26190561	26202968	0.033763446	PASS
CATSPER1	14	91580696	91780707	-0.192197564	PASS
CATSPER1	19	5720677	5778734	0.079632875	PASS
CATSPER1	1	244454377	244641177	-0.368111568	PASS
CATSPER0	19	38335775	38370943	0.093487731	suppress_segment_too_large
CATSPER2	11	64300391	64304770	0.182439925	suppress_segment_too_large
CAV1	7	116524785	116561184	-0.388946609	PASS
CAV2	7	116287380	116508541	-0.388946609	PASS
CAV3	3	8733800	8841808	0.311018244	suppress_segment_too_large
CAVIN1	17	42402452	42423517	0.088516311	PASS
CAVIN2	2	191834302	191847255	0.025928102	PASS
CAVIN3	11	6318946	6320647	-0.405444717	PASS
CAVIN4	9	100578079	100587906	0.365190713	suppress_segment_too_large
CBARP	19	1228287	1238027	0.079632875	PASS
CBFA2T2	20	33490075	33650036	-0.168668583	PASS
CBFA2T3	16	88874858	88977204	-0.371357732	PASS
CBFB	16	67029116	67101058	-0.371357732	PASS
CBL	11	119206276	119313926	-0.356188624	PASS
CBLB	3	105655461	105869552	0.313454204	suppress_segment_too_large
CBLC	19	44777869	44800652	0.14996833	PASS
CBLL1	7	107743697	107761667	-0.388946609	PASS
CBLL2	23	22272943	22274461	-0.012567603	PASS
CBLN1	16	49277917	49281831	0.069936844	PASS
CBLN2	18	72536680	72638521	-0.376397843	PASS
CBLN3	14	24426532	24430954	0.060212819	PASS
CBLN4	20	55997440	56005472	-0.168668583	PASS
CBR1	21	36069941	36073166	-0.064425456	suppress_segment_too_large
CBR3	21	36134912	36146566	-0.064425456	suppress_segment_too_large
CBR4	4	168863770	169010275	-0.011382299	PASS
CBS	21	43053191	43076943	-0.064425456	suppress_segment_too_large
CBSL	21	6444869	6468040	-0.304975024	PASS
CBWD1	9	121038	179147	-0.310444659	PASS
CBWD2	2	113437691	113496189	-0.010901494	PASS
CBWD3	9	68232003	68300015	-0.310444659	PASS
CBWD5	9	65668805	65734041	-0.310444659	PASS
CBWD6	9	41131306	41199261	-0.310444659	PASS
CBX1	17	48070052	48101521	0.088516311	PASS
CBX2	17	79778132	79787983	0.088516311	PASS
CBX3	7	26201162	26213356	-0.69513118	PASS
CBX4	17	79833156	79839429	0.088516311	PASS
CBX5	12	54230940	54280133	-0.202191512	PASS
CBX6	22	38861450	38872314	-0.575930959	PASS
CBX7	22	39120167	39152674	-0.575930959	PASS
CBX8	17	79792132	79801683	0.088516311	PASS
CBY1	22	38656636	38673854	-0.575930959	PASS

CBY3	5	179678583	179680974	-0.150979337	PASS
CC2D1A	19	13906201	13930879	0.093487731	suppress_segment_too_large
CC2D1B	1	52345723	52366193	0.033763446	PASS
CC2D2A	4	15469865	15601557	0.279089364	PASS
CC2D2B	10	95907603	96032684	-0.39678585	PASS
CCAR1	10	68721012	68792377	0.072405807	PASS
CCAR2	8	22604632	22621514	-0.345962679	PASS
CCBE1	18	59430939	59697662	-0.376397843	PASS
CCDC102A	16	57512178	57536599	-0.371357732	PASS
CCDC102B	18	68715209	69055189	-0.376397843	PASS
CCDC103	17	44899142	44905390	0.088516311	PASS
CCDC105	19	15010744	15023269	0.093487731	suppress_segment_too_large
CCDC106	19	55641062	55653161	0.121336758	PASS
CCDC107	9	35658290	35661511	-0.310444659	PASS
CCDC110	4	185445182	185471759	-0.462744716	PASS
CCDC112	5	115267188	115296831	-0.293443042	PASS
CCDC113	16	58231157	58283836	-0.371357732	PASS
CCDC114	19	48296457	48321894	0.14996833	PASS
CCDC115	2	130338241	130342349	-0.475215623	PASS
CCDC116	22	21632716	21637327	-0.575930959	PASS
CCDC117	22	28772674	28789301	-0.575930959	PASS
CCDC12	3	46921726	46982010	-0.234617007	PASS
CCDC120	23	49053572	49069857	-0.012567603	PASS
CCDC121	2	27625639	27629012	0.040498426	PASS
CCDC122	13	43823909	43879727	-0.390786075	PASS
CCDC124	19	17933016	17943991	0.093487731	suppress_segment_too_large
CCDC125	5	69280175	69332809	-0.293443042	PASS
CCDC126	7	23597379	23644708	-0.69513118	PASS
CCDC127	5	196871	218215	0.055007813	PASS
CCDC13	3	42708269	42773253	-0.234617007	PASS
CCDC130	19	13731760	13763296	0.093487731	suppress_segment_too_large
CCDC134	22	41800679	41826299	-0.575930959	PASS
CCDC136	7	128790757	128822132	-0.388946609	PASS
CCDC137	17	81666364	81673904	0.088516311	PASS
CCDC138	2	108786757	108885477	-0.010901494	PASS
CCDC14	3	123897305	123961408	0.313454204	suppress_segment_too_large
CCDC140	2	222298147	222305217	0.025928102	PASS
CCDC141	2	178829757	179050086	0.039726562	PASS
CCDC142	2	74471986	74483408	-0.372959126	PASS
CCDC144A	17	16689537	16777881	0.024610076	PASS
CCDC144N	17	20836447	20896140	0.024610076	PASS
CCDC146	7	77122434	77329533	-0.262778904	PASS
CCDC148	2	158171081	158456753	0.039726562	PASS
CCDC149	4	24806117	24980204	0.279089364	PASS
CCDC15	11	124954121	125041489	-0.419612865	PASS
CCDC150	2	196639554	196763490	0.025928102	PASS

CCDC151	19	11420604	11435782	0.093487731	suppress_segment_too_large
CCDC152	5	42756801	42802360	-0.293443042	PASS
CCDC153	11	119189638	119196769	-0.356188624	PASS
CCDC154	16	1434383	1444556	0.069936844	PASS
CCDC155	19	49388218	49417994	0.14996833	PASS
CCDC157	22	30356635	30378658	-0.575930959	PASS
CCDC158	4	76312997	76421868	-0.011382299	PASS
CCDC159	19	11344684	11354944	0.093487731	suppress_segment_too_large
CCDC160	23	134237047	134246207	-0.012567603	PASS
CCDC163	1	45493866	45500079	0.033763446	PASS
CCDC166	8	143706694	143708109	0.307788765	PASS
CCDC167	6	37482920	37499922	0.048820648	PASS
CCDC168	13	102729369	102759070	-0.390786075	PASS
CCDC169	13	36222008	36297840	-0.390786075	PASS
CCDC169-	13	36168794	36297842	-0.390786075	PASS
CCDC17	1	45620044	45624057	0.033763446	PASS
CCDC170	6	151494030	151621193	-0.035448111	PASS
CCDC171	9	15553086	16061663	-0.310444659	PASS
CCDC172	10	116324428	116380029	0.063874692	PASS
CCDC173	2	169645425	169694433	0.039726562	PASS
CCDC174	3	14651746	14672659	0.311018244	suppress_segment_too_large
CCDC175	14	59504539	59576831	0.060212819	PASS
CCDC177	14	69569816	69574837	0.060212819	PASS
CCDC178	18	32937402	33441101	-0.376397843	PASS
CCDC179	11	22846931	22860426	-0.405444717	PASS
CCDC18	1	93179919	93278730	0.033763446	PASS
CCDC180	9	97307304	97378524	0.365190713	suppress_segment_too_large
CCDC181	1	169394870	169460669	-0.027073548	PASS
CCDC182	17	57744481	57745312	0.088516311	PASS
CCDC183	9	136796350	136807741	0.365190713	suppress_segment_too_large
CCDC184	12	48183584	48185926	-0.202191512	PASS
CCDC185	1	223393417	223395470	-0.256698369	PASS
CCDC186	10	114120862	114174232	0.063874692	PASS
CCDC187	9	136249971	136306901	0.365190713	suppress_segment_too_large
CCDC188	22	20148427	20151065	-0.575930959	PASS
CCDC189	16	30757423	30762710	0.069936844	PASS
CCDC190	1	162824458	162868815	-0.027073548	PASS
CCDC191	3	113964137	114056613	0.313454204	suppress_segment_too_large
CCDC192	5	127703389	127941634	-0.293443042	PASS
CCDC196	14	66411704	66498677	0.060212819	PASS
CCDC198	14	57469301	57493867	0.060212819	PASS
CCDC200	17	43216941	43305397	0.088516311	PASS
CCDC22	23	49235467	49250526	-0.012567603	PASS
CCDC24	1	43991359	43996528	0.033763446	PASS
CCDC25	8	27733311	27772653	-0.345962679	PASS
CCDC27	1	3746460	3771645	0.373964873	suppress_segment_too_large

CCDC28A	6	138773509	138793319	-0.035448111	PASS
CCDC28B	1	32200386	32205387	0.033763446	PASS
CCDC3	10	12896625	13099652	0.039811807	PASS
CCDC30	1	42463330	42654664	0.033763446	PASS
CCDC32	15	40528683	40565057	-0.396255771	PASS
CCDC33	15	74202705	74336472	-0.697600509	PASS
CCDC34	11	27330827	27363868	-0.405444717	PASS
CCDC36	3	49198428	49258104	-0.234617007	PASS
CCDC38	12	95867048	95942974	0.202141228	PASS
CCDC39	3	180602858	180870933	0.318278996	suppress_segment_too_large
CCDC40	17	80036632	80100613	0.088516311	PASS
CCDC42	17	8729934	8745219	0.128406487	PASS
CCDC43	17	44673069	44689779	0.088516311	PASS
CCDC47	17	63745250	63776351	0.088516311	PASS
CCDC50	3	191329077	191398670	-0.627320105	PASS
CCDC51	3	48432164	48440456	-0.234617007	PASS
CCDC54	3	107377194	107378637	0.313454204	suppress_segment_too_large
CCDC57	17	82101460	82212830	0.088516311	PASS
CCDC58	3	122359591	122383231	0.313454204	suppress_segment_too_large
CCDC59	12	82223681	82358805	0.202141228	PASS
CCDC6	10	59788763	59906656	0.072405807	PASS
CCDC60	12	119334712	119541047	0.202141228	PASS
CCDC61	19	45995461	46021318	0.14996833	PASS
CCDC62	12	122774327	122827528	0.202141228	PASS
CCDC63	12	110846769	110907535	0.202141228	PASS
CCDC65	12	48904110	48931840	-0.202191512	PASS
CCDC66	3	56557161	56621818	-0.234617007	PASS
CCDC68	18	54901509	54959508	-0.376397843	PASS
CCDC69	5	151181052	151224145	-0.293443042	PASS
CCDC7	10	32446140	32882874	0.039811807	PASS
CCDC70	13	51861981	51866232	-0.390786075	PASS
CCDC71	3	49162535	49166321	-0.234617007	PASS
CCDC71L	7	106656765	106660996	-0.388946609	PASS
CCDC73	11	32602246	32794658	-0.405444717	PASS
CCDC74A	2	131527675	131533666	-0.475215623	PASS
CCDC74B	2	130139287	130145134	-0.475215623	PASS
CCDC77	12	389273	442645	-0.086128028	PASS
CCDC78	16	722582	726954	0.069936844	PASS
CCDC8	19	46410329	46413662	0.14996833	PASS
CCDC80	3	112596794	112649530	0.313454204	suppress_segment_too_large
CCDC81	11	86374736	86423109	0.062969153	PASS
CCDC82	11	96352769	96389956	0.062969153	PASS
CCDC83	11	85855101	85920021	0.062969153	PASS
CCDC84	11	118998142	119015791	-0.356188624	PASS
CCDC85A	2	56184123	56386173	-0.372959126	PASS
CCDC85B	11	65890112	65891635	0.182439925	suppress_segment_too_large

CCDC85C	14	99500180	99604026	-0.192197564	PASS
CCDC86	11	60842071	60851081	0.182439925	suppress_segment_too_large
CCDC87	11	66590176	66593083	0.182439925	suppress_segment_too_large
CCDC88A	2	55287842	55419895	0.040498426	PASS
CCDC88B	11	64340223	64357534	0.182439925	suppress_segment_too_large
CCDC88C	14	91271323	91417844	-0.192197564	PASS
CCDC89	11	85684866	85686277	0.062969153	PASS
CCDC9	19	47255980	47273701	0.14996833	PASS
CCDC90B	11	83259097	83286407	0.062969153	PASS
CCDC91	12	28133249	28581511	0.362961408	suppress_segment_too_large
CCDC92	12	123918660	123972831	0.202141228	PASS
CCDC93	2	117915478	118014133	-0.475215623	PASS
CCDC96	4	7040849	7042939	0.279089364	PASS
CCDC97	19	41310189	41324883	0.093487731	suppress_segment_too_large
CCDC9B	15	40331452	40340967	-0.396255771	PASS
CCER1	12	90905622	90955176	0.202141228	PASS
CCER2	19	38908980	38912158	0.093487731	suppress_segment_too_large
CCHCR1	6	31142439	31158238	0.048820648	PASS
CCIN	9	36169394	36171334	-0.310444659	PASS
CCK	3	42257825	42266207	-0.234617007	PASS
CCKAR	4	26481400	26490462	-0.458181871	PASS
CCKBR	11	6259736	6272127	-0.405444717	PASS
CCL1	17	34360328	34363231	0.060555011	PASS
CCL11	17	34285668	34288334	0.060555011	PASS
CCL13	17	34356452	34358610	0.060555011	PASS
CCL14	17	35983291	35987004	0.060555011	PASS
CCL15	17	35996440	36002038	0.060555011	PASS
CCL15-CC	17	35983656	36001621	0.060555011	PASS
CCL16	17	35976493	35981496	0.060555011	PASS
CCL17	16	57404767	57416062	-0.371357732	PASS
CCL18	17	36064280	36072032	0.060555011	PASS
CCL19	9	34689567	34691277	-0.310444659	PASS
CCL2	17	34255218	34257203	0.060555011	PASS
CCL20	2	227805739	227817564	0.025928102	PASS
CCL21	9	34709005	34710124	-0.310444659	PASS
CCL22	16	57358772	57366190	-0.371357732	PASS
CCL23	17	36013056	36017968	0.060555011	PASS
CCL24	7	75811665	75823356	-0.262778904	PASS
CCL25	19	8052767	8062650	0.079632875	PASS
CCL26	7	75769533	75789896	-0.262778904	PASS
CCL27	9	34661880	34664048	-0.310444659	PASS
CCL28	5	43376645	43412391	-0.293443042	PASS
CCL3	17	36088256	36090169	0.060555011	PASS
CCL3L1	17	36194869	36196758	0.060555011	PASS
CCL4	17	36103590	36105621	0.060555011	PASS
CCL4L2	17	36210924	36212878	0.060555011	PASS

CCL5	17	35871491	35880793	0.060555011	PASS
CCL7	17	34270221	34272242	0.060555011	PASS
CCL8	17	34319036	34321402	0.060555011	PASS
CCM2	7	44999475	45076469	-0.69513118	PASS
CCM2L	20	32010450	32032180	-0.168668583	PASS
CCNA1	13	36431520	36442882	-0.390786075	PASS
CCNA2	4	121816444	121823933	-0.011382299	PASS
CCNB1	5	69167010	69178245	-0.293443042	PASS
CCNB1IP1	14	20311368	20333312	0.060212819	PASS
CCNB2	15	59105078	59125045	-0.697600509	PASS
CCNB3	23	50202713	50351910	-0.012567603	PASS
CCNC	6	99542380	99568973	-0.368590549	PASS
CCND1	11	69641087	69654474	0.182439925	suppress_segment_too_large
CCND2	12	4273772	4305350	-0.086128028	PASS
CCND3	6	41934933	42050357	0.048820648	PASS
CCNDBP1	15	43185118	43197176	-0.396255771	PASS
CCNE1	19	29811898	29824308	0.093487731	suppress_segment_too_large
CCNE2	8	94879770	94896678	0.279445683	PASS
CCNF	16	2429394	2458854	0.069936844	PASS
CCNG1	5	163437569	163446151	-0.150979337	PASS
CCNG2	4	77157151	77433388	-0.011382299	PASS
CCNH	5	87318416	87413019	-0.293443042	PASS
CCNI	4	77047158	77076005	-0.011382299	PASS
CCNI2	5	132747445	132754403	-0.293443042	PASS
CCNJ	10	96043394	96060870	-0.39678585	PASS
CCNJL	5	160249106	160345396	-0.150979337	PASS
CCNK	14	99481169	99535044	-0.192197564	PASS
CCNL1	3	157146508	157160760	0.318278996	suppress_segment_too_large
CCNL2	1	1385711	1399328	0.373964873	suppress_segment_too_large
CCNO	5	55231152	55233680	-0.293443042	PASS
CCNQ	23	153587919	153600045	-0.012567603	PASS
CCNT1	12	48688458	48716998	-0.202191512	PASS
CCNT2	2	134918235	134959342	-0.475215623	PASS
CCNY	10	35247025	35572669	0.039811807	PASS
CCNYL1	2	207711540	207761839	0.025928102	PASS
CCP110	16	19523811	19553408	0.069936844	PASS
CCPG1	15	55340032	55408510	-0.697600509	PASS
CCR1	3	46201709	46208396	-0.234617007	PASS
CCR10	17	42678889	42683917	0.088516311	PASS
CCR2	3	46353734	46360928	-0.234617007	PASS
CCR3	3	46163604	46266706	-0.234617007	PASS
CCR4	3	32951574	32956349	0.311018244	suppress_segment_too_large
CCR5	3	46370854	46376206	-0.234617007	PASS
CCR6	6	167111807	167139696	-0.035448111	PASS
CCR7	17	40553769	40565472	0.060555011	PASS
CCR8	3	39329706	39333511	-0.234617007	PASS

CCR9	3	45886504	45903177	-0.234617007	PASS
CCRL2	3	46407163	46412997	-0.234617007	PASS
CCS	11	66592821	66606019	0.182439925	suppress_segment_too_large
CCSAP	1	229321005	229343294	-0.256698369	PASS
CCSER1	4	90127535	91601913	-0.011382299	PASS
CCSER2	10	84328558	84518521	0.072405807	PASS
CCT2	12	69585334	69601570	-0.202191512	PASS
CCT3	1	156308968	156367873	0.103015788	PASS
CCT4	2	61868089	61888804	-0.372959126	PASS
CCT5	5	10249921	10266412	0.055007813	PASS
CCT6A	7	56051630	56063989	-0.750061359	PASS
CCT6B	17	34927859	34981078	0.060555011	PASS
CCT7	2	73233420	73253021	-0.372959126	PASS
CCT8	21	29055805	29073797	0.12860881	suppress_segment_too_large
CCT8L2	22	16590751	16592810	-0.575930959	PASS
CCZ1	7	5898725	5926550	-0.69513118	PASS
CCZ1B	7	6794134	6826770	-0.69513118	PASS
CD101	1	117001750	117036476	0.033763446	PASS
CD109	6	73695785	73828316	-0.368590549	PASS
CD14	5	140631728	140633701	-0.293443042	PASS
CD151	11	832843	839831	-0.333835828	PASS
CD160	1	145719471	145739288	-0.157385092	PASS
CD163	12	7470813	7503893	-0.086128028	PASS
CD163L1	12	7346685	7479897	-0.086128028	PASS
CD164	6	109366514	109382812	-0.368590549	PASS
CD164L2	1	27379176	27383380	0.033763446	PASS
CD177	19	43353659	43363172	-0.459876623	PASS
CD180	5	67179613	67196799	-0.293443042	PASS
CD19	16	28931939	28939346	0.069936844	PASS
CD1A	1	158254137	158258269	-0.467855874	PASS
CD1B	1	158327951	158331531	-0.467855874	PASS
CD1C	1	158289786	158293630	-0.467855874	PASS
CD1D	1	158179947	158184896	-0.467855874	PASS
CD1E	1	158353696	158357553	-0.467855874	PASS
CD2	1	116754385	116769228	0.033763446	PASS
CD200	3	112332347	112362812	0.313454204	suppress_segment_too_large
CD200R1	3	112921209	112975122	0.313454204	suppress_segment_too_large
CD200R1L	3	112815709	112846856	0.313454204	suppress_segment_too_large
CD207	2	70830214	70835822	-0.372959126	PASS
CD209	19	7739994	7747564	0.079632875	PASS
CD22	19	35319261	35347355	0.093487731	suppress_segment_too_large
CD226	18	69831158	69961803	-0.376397843	PASS
CD24	6	106969831	106975627	-0.368590549	PASS
CD244	1	160830160	160862855	-0.027073548	PASS
CD247	1	167430640	167518610	-0.027073548	PASS
CD248	11	66314487	66317044	0.182439925	suppress_segment_too_large

CD27	12	6444867	6451718	-0.086128028	PASS
CD274	9	5450503	5470566	-0.310444659	PASS
CD276	15	73683966	73714518	-0.697600509	PASS
CD28	2	203706475	203738912	0.025928102	PASS
CD2AP	6	47477789	47627263	0.048820648	PASS
CD2BP2	16	30350766	30355361	0.069936844	PASS
CD300A	17	74466399	74484796	0.088516311	PASS
CD300C	17	74541108	74546143	0.088516311	PASS
CD300E	17	74609887	74623738	0.088516311	PASS
CD300LB	17	74521174	74531474	0.088516311	PASS
CD300LD	17	74579365	74592283	0.088516311	PASS
CD300LF	17	74694311	74712978	0.088516311	PASS
CD300LG	17	43847148	43863629	0.088516311	PASS
CD302	2	159768630	159798255	0.039726562	PASS
CD320	19	8302127	8308356	0.079632875	PASS
CD33	19	51225064	51243860	-0.016761391	PASS
CD34	1	207880972	207911402	-0.256698369	PASS
CD36	7	80369575	80679277	-0.262778904	PASS
CD37	19	49335171	49343335	0.14996833	PASS
CD38	4	15778275	15853230	0.279089364	PASS
CD3D	11	118338954	118342744	-0.356188624	PASS
CD3E	11	118304545	118316175	-0.356188624	PASS
CD3EAP	19	45406209	45410766	0.14996833	PASS
CD3G	11	118344344	118355161	-0.356188624	PASS
CD4	12	6786858	6820808	-0.086128028	PASS
CD40	20	46118272	46129863	-0.168668583	PASS
CD40LG	23	136648193	136660390	-0.012567603	PASS
CD44	11	35138870	35232402	-0.405444717	PASS
CD46	1	207752057	207795513	-0.256698369	PASS
CD47	3	108043094	108091862	0.313454204	suppress_segment_too_large
CD48	1	160678746	160711851	-0.027073548	PASS
CD5	11	61102395	61127852	0.182439925	suppress_segment_too_large
CD52	1	26317957	26320523	0.033763446	PASS
CD53	1	110871188	110899928	0.033763446	PASS
CD55	1	207321376	207386804	-0.256698369	PASS
CD58	1	116514535	116571039	0.033763446	PASS
CD59	11	33703010	33736491	-0.405444717	PASS
CD5L	1	157830914	157898256	-0.467855874	PASS
CD6	11	60971680	61020377	0.182439925	suppress_segment_too_large
CD63	12	55725323	55729707	-0.202191512	PASS
CD68	17	7579467	7582113	0.128406487	PASS
CD69	12	9752486	9760901	0.362961408	suppress_segment_too_large
CD7	17	82314868	82317602	0.088516311	PASS
CD70	19	6583183	6604103	0.079632875	PASS
CD72	9	35609533	35646810	-0.310444659	PASS
CD74	5	150401637	150412929	-0.293443042	PASS

CD79A	19	41877120	41881372	0.093487731	suppress_segment_too_large
CD79B	17	63928740	63932354	0.088516311	PASS
CD80	3	119524293	119559602	0.313454204	suppress_segment_too_large
CD81	11	2376177	2397419	-0.333835828	PASS
CD82	11	44564427	44620363	0.117376172	PASS
CD83	6	14117256	14136918	0.048820648	PASS
CD84	1	160541095	160579516	-0.027073548	PASS
CD86	3	122055366	122121139	0.313454204	suppress_segment_too_large
CD8A	2	86784610	86808396	0.066915641	PASS
CD8B	2	86815339	86861924	0.066915641	PASS
CD8B2	2	106487364	106544297	-0.532032081	PASS
CD9	12	6199715	6238271	-0.086128028	PASS
CD93	20	23079349	23086340	-0.168668583	PASS
CD96	3	111292719	111665750	0.313454204	suppress_segment_too_large
CD99	23	2691133	2741309	-0.012567603	PASS
CD99L2	23	150766337	150898816	-0.012567603	PASS
CDA	1	20588948	20618908	0.033763446	PASS
CDADC1	13	49247925	49293485	-0.390786075	PASS
CDAN1	15	42723544	42737128	-0.396255771	PASS
CDC123	10	12195965	12250589	0.039811807	PASS
CDC14A	1	100345001	100520278	0.033763446	PASS
CDC14B	9	96490241	96619830	0.365190713	suppress_segment_too_large
CDC14C	7	48919765	48927454	-2.348494016	PASS
CDC16	13	114234887	114272723	-0.390786075	PASS
CDC20	1	43358955	43363203	0.033763446	PASS
CDC20B	5	55112995	55173175	-0.293443042	PASS
CDC23	5	138187648	138213343	-0.293443042	PASS
CDC25A	3	48157146	48188402	-0.234617007	PASS
CDC25B	20	3786772	3806121	-0.168668583	PASS
CDC25C	5	138285265	138338355	-0.293443042	PASS
CDC26	9	113255835	113275589	0.365190713	suppress_segment_too_large
CDC27	17	47117703	47189422	0.088516311	PASS
CDC34	19	531712	542092	0.079632875	PASS
CDC37	19	10391134	10420121	0.093487731	suppress_segment_too_large
CDC37L1	9	4679559	4708398	-0.310444659	PASS
CDC40	6	110180141	110254275	-0.368590549	PASS
CDC42	1	22052627	22092946	0.033763446	PASS
CDC42BP/	1	226989865	227318474	-0.256698369	PASS
CDC42BPI	14	102932379	103057462	-0.192197564	PASS
CDC42BP(	11	64823387	64844569	0.182439925	suppress_segment_too_large
CDC42EP1	22	37560447	37569405	-0.575930959	PASS
CDC42EP2	11	65314818	65322429	0.182439925	suppress_segment_too_large
CDC42EP3	2	37641882	37738468	0.040498426	PASS
CDC42EP4	17	73283624	73312175	0.088516311	PASS
CDC42EP5	19	54465026	54473264	-0.146906334	PASS
CDC42SE1	1	151050971	151070325	0.103015788	PASS

CDC42SE2	5	131245493	131398447	-0.293443042	PASS
CDC45	22	19479459	19520612	-0.575930959	PASS
CDC5L	6	44387525	44450426	0.048820648	PASS
CDC6	17	40287633	40304657	0.060555011	PASS
CDC7	1	91500893	91525764	0.033763446	PASS
CDC73	1	193121800	193254815	-0.027073548	PASS
CDCA2	8	25458997	25507920	-0.345962679	PASS
CDCA3	12	6844793	6852066	-0.086128028	PASS
CDCA4	14	105009573	105021148	-0.192197564	PASS
CDCA5	11	65066300	65084164	0.182439925	suppress_segment_too_large
CDCA7	2	173354820	173368997	0.039726562	PASS
CDCA7L	7	21900900	21946084	-0.69513118	PASS
CDCA8	1	37692418	37709719	0.033763446	PASS
CDCP1	3	45082278	45146422	-0.234617007	PASS
CDCP2	1	54132968	54153770	0.033763446	PASS
CDH1	16	68737225	68835548	-0.371357732	PASS
CDH10	5	24487100	24644978	0.055007813	PASS
CDH11	16	64943753	65126112	-0.371357732	PASS
CDH12	5	21750673	22853622	0.055007813	PASS
CDH13	16	82626803	83800640	-0.371357732	PASS
CDH15	16	89171767	89195492	-0.371357732	PASS
CDH16	16	66908122	66918984	-0.371357732	PASS
CDH17	8	94127171	94217303	0.279445683	PASS
CDH18	5	19472951	20575873	0.055007813	PASS
CDH19	18	66501083	66604138	-0.376397843	PASS
CDH2	18	27950966	28177446	-0.376397843	PASS
CDH20	18	61333582	61555773	-0.376397843	PASS
CDH22	20	46173733	46308498	-0.168668583	PASS
CDH23	10	71396934	71815947	0.072405807	PASS
CDH24	14	23047062	23057538	0.060212819	PASS
CDH26	20	59958427	60034011	-0.168668583	PASS
CDH3	16	68636189	68722616	-0.371357732	PASS
CDH4	20	61252426	61940617	-0.168668583	PASS
CDH5	16	66366622	66404786	-0.371357732	PASS
CDH6	5	31193750	31329146	0.055007813	PASS
CDH7	18	65750252	65890341	-0.376397843	PASS
CDH8	16	61647242	62037035	-0.371357732	PASS
CDH9	5	26880600	27121150	0.055007813	PASS
CDHR1	10	84194635	84219621	0.072405807	PASS
CDHR2	5	176542511	176595974	-0.150979337	PASS
CDHR3	7	105876796	106033773	-0.388946609	PASS
CDHR4	3	49790732	49799835	-0.234617007	PASS
CDHR5	11	616565	626078	-0.333835828	PASS
CDIP1	16	4510675	4538828	0.069936844	PASS
CDIPT	16	29858357	29863736	0.069936844	PASS
CDK1	10	60778331	60794852	0.072405807	PASS

CDK10	16	89680737	89696364	-0.371357732	PASS
CDK11A	1	1702730	1724324	0.373964873	suppress_segment_too_large
CDK11B	1	1635227	1659012	0.373964873	suppress_segment_too_large
CDK12	17	39461511	39564907	0.060555011	PASS
CDK13	7	39949646	40099580	-0.69513118	PASS
CDK14	7	90466424	91210590	-0.262778904	PASS
CDK15	2	201790461	201895550	0.025928102	PASS
CDK16	23	47217860	47229997	-0.012567603	PASS
CDK17	12	96278261	96400560	0.202141228	PASS
CDK18	1	205504595	205532793	-0.256698369	PASS
CDK19	6	110609978	110815958	-0.368590549	PASS
CDK2	12	55966769	55972784	-0.202191512	PASS
CDK20	9	87966441	87974753	0.365190713	suppress_segment_too_large
CDK2AP1	12	123260971	123272334	0.202141228	PASS
CDK2AP2	11	67506497	67508649	0.182439925	suppress_segment_too_large
CDK3	17	76000906	76005999	0.088516311	PASS
CDK4	12	57747727	57756013	-0.202191512	PASS
CDK5	7	151053812	151058530	-0.388946609	PASS
CDK5R1	17	32486619	32491256	0.060555011	PASS
CDK5R2	2	218959655	218962162	0.025928102	PASS
CDK5RAP	20	33358839	33401561	-0.168668583	PASS
CDK5RAP	9	120388869	120580170	0.365190713	suppress_segment_too_large
CDK5RAP	17	47967810	47981774	0.088516311	PASS
CDK6	7	92604921	92836594	-0.262778904	PASS
CDK7	5	69234795	69277430	-0.293443042	PASS
CDK8	13	26254104	26405238	-0.390786075	PASS
CDK9	9	127785679	127790787	0.365190713	suppress_segment_too_large
CDKAL1	6	20534457	21232404	0.048820648	PASS
CDKL1	14	50329404	50416461	0.060212819	PASS
CDKL2	4	75578005	75630716	-0.011382299	PASS
CDKL3	5	134286350	134371047	-0.293443042	PASS
CDKL4	2	39175646	39229588	0.040498426	PASS
CDKL5	23	18425583	18653629	-0.012567603	PASS
CDKN1A	6	36676460	36687339	0.048820648	PASS
CDKN1B	12	12715058	12722371	0.362961408	suppress_segment_too_large
CDKN1C	11	2883213	2885773	-0.333835828	PASS
CDKN2A	9	21967753	21995301	-0.310444659	PASS
CDKN2AIl	4	183444591	183448198	-0.462744716	PASS
CDKN2AIl	5	134402087	134411898	-0.293443042	PASS
CDKN2B	9	22002903	22009363	-0.310444659	PASS
CDKN2C	1	50960745	50974633	0.033763446	PASS
CDKN2D	19	10566462	10569059	0.093487731	suppress_segment_too_large
CDKN3	14	54396849	54420218	0.060212819	PASS
CDNF	10	14819250	14838575	0.039811807	PASS
CDO1	5	115804733	115816954	-0.293443042	PASS
CDON	11	125955796	126063335	-0.419612865	PASS

CDPF1	22	46244011	46250679	-0.808211634	PASS
CDR1	23	140783578	140784366	-0.012567603	PASS
CDR2	16	22345936	22437165	0.069936844	PASS
CDR2L	17	74987632	75005800	0.088516311	PASS
CDRT1	17	15565483	15619512	-0.139031004	PASS
CDRT15	17	14235673	14236862	-0.139031004	PASS
CDRT15L2	17	20579724	20580911	0.024610076	PASS
CDRT4	17	15436015	15503608	-0.139031004	PASS
CDS1	4	84582979	84651338	-0.011382299	PASS
CDS2	20	5126786	5197887	-0.168668583	PASS
CDSN	6	31115090	31120446	0.048820648	PASS
CDT1	16	88803213	88809258	-0.371357732	PASS
CDV3	3	133573730	133590261	0.313454204	suppress_segment_too_large
CDX1	5	150166795	150184558	-0.293443042	PASS
CDX2	13	27962137	27971139	-0.390786075	PASS
CDX4	23	73447254	73455245	-0.012567603	PASS
CDYL	6	4706159	4955551	0.048820648	PASS
CDYL2	16	80597906	80804329	-0.371357732	PASS
CEACAM1	19	42507304	42561234	-0.459876623	PASS
CEACAM1	19	44699151	44710714	0.14996833	PASS
CEACAM1	19	51478622	51490952	-0.016761391	PASS
CEACAM1	19	44662278	44684359	0.14996833	PASS
CEACAM2	19	44501677	44529788	0.14996833	PASS
CEACAM2	19	41549518	41586844	0.093487731	suppress_segment_too_large
CEACAM3	19	41796437	41811553	0.093487731	suppress_segment_too_large
CEACAM4	19	41618971	41627074	0.093487731	suppress_segment_too_large
CEACAM5	19	41708585	41729798	0.093487731	suppress_segment_too_large
CEACAM6	19	41750977	41772208	0.093487731	suppress_segment_too_large
CEACAM7	19	41673307	41706976	0.093487731	suppress_segment_too_large
CEACAM8	19	42580241	42595055	-0.459876623	PASS
CEBPA	19	33299934	33302564	0.093487731	suppress_segment_too_large
CEBPB	20	50190734	50192689	-0.168668583	PASS
CEBPD	8	47736909	47739086	-0.201142258	PASS
CEBPE	14	23117304	23119616	0.060212819	PASS
CEBPG	19	33373330	33382686	0.093487731	suppress_segment_too_large
CEBPZ	2	37201612	37231713	0.040498426	PASS
CEBPZOS	2	37196488	37216193	0.040498426	PASS
CECR2	22	17359949	17558149	-0.575930959	PASS
CEL	9	133061978	133071861	0.365190713	suppress_segment_too_large
CELA1	12	51328443	51346679	-0.202191512	PASS
CELA2A	1	15456728	15472091	0.033763446	PASS
CELA2B	1	15465909	15491400	0.033763446	PASS
CELA3A	1	22001656	22012539	0.033763446	PASS
CELA3B	1	21977021	21998642	0.033763446	PASS
CELF1	11	47465933	47565569	0.117376172	PASS
CELF2	10	10798397	11336675	0.039811807	PASS

CELF3	1	151702404	151716814	0.103015788	PASS
CELF4	18	37243047	37566037	-0.376397843	PASS
CELF5	19	3224703	3297076	0.079632875	PASS
CELF6	15	72284727	72320129	-0.697600509	PASS
CELSR1	22	46360834	46537170	-0.808211634	PASS
CELSR2	1	109250019	109275750	0.033763446	PASS
CELSR3	3	48636469	48662915	-0.234617007	PASS
CEMIP	15	80779343	80951776	-0.697600509	PASS
CEMIP2	9	71683366	71816690	0.365190713	suppress_segment_too_large
CEMP1	16	2530035	2531417	0.069936844	PASS
CEND1	11	787104	790123	-0.333835828	PASS
CENPA	2	26764289	26801067	0.040498426	PASS
CENPB	20	3783851	3786690	-0.168668583	PASS
CENPBD1	16	89969773	89972832	-0.371357732	PASS
CENPC	4	67468748	67545606	-0.011382299	PASS
CENPE	4	103105806	103198409	-0.011382299	PASS
CENPF	1	214603195	214664588	-0.256698369	PASS
CENPH	5	69189548	69210357	-0.293443042	PASS
CENPI	23	101098218	101163681	-0.012567603	PASS
CENPJ	13	24882284	24922889	-0.390786075	PASS
CENPK	5	65517766	65563171	-0.293443042	PASS
CENPL	1	173799550	173824720	-0.027073548	PASS
CENPM	22	41938721	41947164	-0.575930959	PASS
CENPN	16	81006498	81033114	-0.371357732	PASS
CENPO	2	24793136	24822376	0.040498426	PASS
CENPP	9	92325484	92620533	0.365190713	suppress_segment_too_large
CENPQ	6	49463378	49493107	0.048820648	PASS
CENPS	1	10430443	10442809	0.373964873	suppress_segment_too_large
CENPS-CC	1	10430102	10452153	0.373964873	suppress_segment_too_large
CENPT	16	67828157	67847811	-0.371357732	PASS
CENPU	4	184694618	184734133	-0.462744716	PASS
CENPV	17	16342534	16353656	0.024610076	PASS
CENPVL3	23	51617024	51618968	-0.012567603	PASS
CENPW	6	126340174	126348875	-0.458570262	PASS
CENPX	17	82018702	82024107	0.088516311	PASS
CEP104	1	3812081	3857214	0.373964873	suppress_segment_too_large
CEP112	17	65635538	66192084	0.088516311	PASS
CEP120	5	123344885	123423592	-0.293443042	PASS
CEP126	11	101915015	102001058	0.062969153	PASS
CEP128	14	80476983	80959517	-0.192197564	PASS
CEP131	17	81189593	81222999	0.088516311	PASS
CEP135	4	55948871	56033363	-0.011382299	PASS
CEP152	15	48712928	48811146	-0.396255771	PASS
CEP162	6	84124241	84227635	-0.368590549	PASS
CEP164	11	117314557	117413268	-0.356188624	PASS
CEP170	1	243124428	243255348	-0.648598641	PASS

CEP170B	14	104865280	104896770	-0.192197564	PASS
CEP19	3	196706277	196712293	0.326834516	PASS
CEP192	18	12991362	13125052	-0.052305056	suppress_segment_too_large
CEP250	20	35455164	35519280	-0.168668583	PASS
CEP290	12	88049014	88142216	0.202141228	PASS
CEP295	11	93661639	93730358	0.062969153	PASS
CEP295NL	17	78870910	78903217	0.088516311	PASS
CEP350	1	179954738	180114880	-0.027073548	PASS
CEP41	7	130393771	130442433	-0.388946609	PASS
CEP44	4	174283677	174333380	-0.011382299	PASS
CEP55	10	93496632	93529092	-0.39678585	PASS
CEP57	11	95789965	95832693	0.062969153	PASS
CEP57L1	6	109095110	109163932	-0.368590549	PASS
CEP63	3	134485721	134575017	0.313454204	suppress_segment_too_large
CEP68	2	65056366	65087004	-0.372959126	PASS
CEP70	3	138494344	138594538	0.313454204	suppress_segment_too_large
CEP72	5	612272	667168	0.055007813	PASS
CEP76	18	12661833	12702777	-0.052305056	suppress_segment_too_large
CEP78	9	78236062	78279690	0.365190713	suppress_segment_too_large
CEP83	12	94306449	94459988	0.202141228	PASS
CEP85	1	26234200	26278808	0.033763446	PASS
CEP85L	6	118460772	118710075	-0.368590549	PASS
CEP89	19	32875925	32971991	0.093487731	suppress_segment_too_large
CEP95	17	64506588	64542461	0.088516311	PASS
CEP97	3	101723925	101770562	0.313454204	suppress_segment_too_large
CEPT1	1	111139627	111185102	0.033763446	PASS
CER1	9	14719724	14722717	-0.310444659	PASS
CERCAM	9	128411751	128437351	0.365190713	suppress_segment_too_large
CERK	22	46684411	46738261	-0.808211634	PASS
CERKL	2	181536676	181680665	0.039726562	PASS
CERS1	19	18868545	18896727	0.093487731	suppress_segment_too_large
CERS2	1	150960583	150975004	0.103015788	PASS
CERS3	15	100400395	100544995	-0.697600509	PASS
CERS4	19	8206736	8262421	0.079632875	PASS
CERS5	12	50129306	50167533	-0.202191512	PASS
CERS6	2	168455862	168775137	0.039726562	PASS
CES1	16	55802851	55833337	-0.371357732	PASS
CES2	16	66934444	66945096	-0.371357732	PASS
CES3	16	66961237	66975148	-0.371357732	PASS
CES4A	16	66988589	67009758	-0.371357732	PASS
CES5A	16	55846154	55956031	-0.371357732	PASS
CETN1	18	580357	582114	-0.052305056	suppress_segment_too_large
CETN2	23	152826973	152830777	-0.012567603	PASS
CETN3	5	90392261	90409786	-0.293443042	PASS
CETP	16	56961850	56983845	-0.371357732	PASS
CFAP100	3	126394939	126436556	0.313454204	suppress_segment_too_large

CFAP126	1	161364731	161367874	-0.027073548	PASS
CFAP157	9	127706989	127716002	0.365190713	suppress_segment_too_large
CFAP161	15	81007033	81149175	-0.697600509	PASS
CFAP20	16	58113588	58129450	-0.371357732	PASS
CFAP206	6	87407983	87464465	-0.368590549	PASS
CFAP221	2	119544432	119662251	-0.475215623	PASS
CFAP298	21	32592079	32612866	0.12860881	suppress_segment_too_large
CFAP299	4	80335720	80963756	-0.011382299	PASS
CFAP300	11	102047443	102084560	0.062969153	PASS
CFAP36	2	55519604	55545879	0.040498426	PASS
CFAP410	21	44328944	44339402	-0.064425456	suppress_segment_too_large
CFAP43	10	104129888	104232362	-0.367947924	PASS
CFAP44	3	113286947	113441610	0.313454204	suppress_segment_too_large
CFAP45	1	159872364	159900163	-0.027073548	PASS
CFAP46	10	132808392	132942823	0.063874692	PASS
CFAP47	23	35919734	36385319	-0.012567603	PASS
CFAP52	17	9576627	9643459	-0.139031004	PASS
CFAP53	18	50227193	50266522	-0.376397843	PASS
CFAP54	12	96489571	96875555	0.202141228	PASS
CFAP57	1	43172149	43254358	0.033763446	PASS
CFAP58	10	104353764	104455090	-0.367947924	PASS
CFAP61	20	20052514	20360702	-0.168668583	PASS
CFAP65	2	219002846	219041527	0.025928102	PASS
CFAP69	7	90245174	90311063	-0.262778904	PASS
CFAP70	10	73253759	73358859	0.072405807	PASS
CFAP73	12	113149858	113159276	0.202141228	PASS
CFAP74	1	1921951	2003837	0.373964873	suppress_segment_too_large
CFAP77	9	132410043	132573317	0.365190713	suppress_segment_too_large
CFAP97	4	185159665	185209504	-0.462744716	PASS
CFAP97D1	17	43780435	43787612	0.088516311	PASS
CFAP99	4	2418974	2462942	0.279089364	PASS
CFB	6	31945650	31952084	0.048820648	PASS
CFC1	2	130592168	130599575	-0.475215623	PASS
CFD	19	859643	863630	0.079632875	PASS
CFDP1	16	75293698	75433485	-0.371357732	PASS
CFH	1	196651878	196747504	-0.027073548	PASS
CFHR1	1	196819757	196832189	-0.027073548	PASS
CFHR2	1	196943756	196959226	-0.027073548	PASS
CFHR3	1	196774795	196795406	-0.027073548	PASS
CFHR4	1	196888014	196918713	-0.027073548	PASS
CFHR5	1	196977556	197009674	-0.027073548	PASS
CFI	4	109740694	109802179	-0.011382299	PASS
CFL1	11	65823022	65862026	0.182439925	suppress_segment_too_large
CFL2	14	34706769	34714823	0.060212819	PASS
CFLAR	2	201116104	201176687	0.025928102	PASS
CFP	23	47623172	47630305	-0.012567603	PASS

CFTR	7	117465784	117715971	-0.388946609	PASS
CGA	6	87085498	87095406	-0.368590549	PASS
CGAS	6	73413515	73452276	-0.368590549	PASS
CGB1	19	49035610	49036895	0.14996833	PASS
CGB2	19	49031912	49033238	0.14996833	PASS
CGB3	19	49022869	49024333	0.14996833	PASS
CGB5	19	49043884	49045311	0.14996833	PASS
CGB7	19	49054275	49058860	0.14996833	PASS
CGB8	19	49047638	49049106	0.14996833	PASS
CGGBP1	3	88051944	88149885	0.313454204	suppress_segment_too_large
CGN	1	151510510	151538692	0.103015788	PASS
CGNL1	15	57375967	57550727	-0.697600509	PASS
CGREF1	2	27098889	27119115	0.040498426	PASS
CGRRF1	14	54509812	54539309	0.060212819	PASS
CH25H	10	89205629	89207314	-1.64589449	suppress_large_homdel
CHAC1	15	40952962	40956519	-0.396255771	PASS
CHAC2	2	53767792	53775196	0.040498426	PASS
CHAD	17	50464496	50468966	0.088516311	PASS
CHADL	22	41229510	41240934	-0.575930959	PASS
CHAF1A	19	4402662	4445018	0.079632875	PASS
CHAF1B	21	36385378	36419015	-0.064425456	suppress_segment_too_large
CHAMP1	13	114314335	114337626	-0.390786075	PASS
CHAT	10	49609095	49665104	-0.404852538	PASS
CHCHD1	10	73782047	73783652	0.072405807	PASS
CHCHD10	22	23765834	23768443	-0.575930959	PASS
CHCHD2	7	56101569	56106576	-0.750061359	PASS
CHCHD3	7	132784868	133082088	-0.388946609	PASS
CHCHD4	3	14112077	14124870	0.311018244	suppress_segment_too_large
CHCHD5	2	112584240	112589275	-0.010901494	PASS
CHCHD6	3	126704220	126960406	0.313454204	suppress_segment_too_large
CHCHD7	8	56211686	56218798	-0.201142258	PASS
CHD1	5	98853985	98928957	-0.293443042	PASS
CHD1L	1	147242641	147295766	-0.157385092	PASS
CHD2	15	92900189	93028005	-0.697600509	PASS
CHD3	17	7884806	7912760	0.128406487	PASS
CHD4	12	6570082	6614524	-0.086128028	PASS
CHD5	1	6101793	6180123	0.373964873	suppress_segment_too_large
CHD6	20	41402101	41618494	-0.168668583	PASS
CHD7	8	60678778	60868028	-0.201142258	PASS
CHD8	14	21385194	21456126	0.060212819	PASS
CHD9	16	53055033	53329150	-0.371357732	PASS
CHDH	3	53812335	53846390	-0.234617007	PASS
CHEK1	11	125625136	125676255	-0.419612865	PASS
CHEK2	22	28687743	28742422	-0.575930959	PASS
CHERP	19	16517889	16542530	0.093487731	suppress_segment_too_large
CHFR	12	132822187	132956304	0.270848837	PASS

CHGA	14	92923080	92935293	-0.192197564	PASS
CHGB	20	5911430	5925361	-0.168668583	PASS
CHI3L1	1	203178931	203186749	-0.256698369	PASS
CHI3L2	1	111200771	111243440	0.033763446	PASS
CHIA	1	111290862	111320566	0.033763446	PASS
CHIC1	23	73563200	73687102	-0.012567603	PASS
CHIC2	4	54009789	54064690	-0.011382299	PASS
CHID1	11	867860	915058	-0.333835828	PASS
CHIT1	1	203212827	203273641	-0.256698369	PASS
CHKA	11	68052859	68121444	0.182439925	suppress_segment_too_large
CHKB	22	50578949	50601455	-0.808211634	PASS
CHKB-CP	22	50568869	50582965	-0.808211634	PASS
CHL1	3	196596	409417	0.311018244	suppress_segment_too_large
CHM	23	85861180	86047562	-0.012567603	PASS
CHML	1	241628853	241640254	-0.648598641	PASS
CHMP1A	16	89644431	89657845	-0.371357732	PASS
CHMP1B	18	11851396	11854449	-0.052305056	suppress_segment_too_large
CHMP2A	19	58551566	58555124	0.063781462	PASS
CHMP2B	3	87227271	87255548	0.313454204	suppress_segment_too_large
CHMP3	2	86503431	86563479	0.066915641	PASS
CHMP4A	14	24209583	24213869	0.060212819	PASS
CHMP4B	20	33811304	33854366	-0.168668583	PASS
CHMP4C	8	81732434	81759515	0.279445683	PASS
CHMP5	9	33264879	33282069	-0.310444659	PASS
CHMP6	17	80991598	81009517	0.088516311	PASS
CHMP7	8	23243637	23262000	-0.345962679	PASS
CHN1	2	174799363	175005369	0.039726562	PASS
CHN2	7	29146569	29514328	-0.69513118	PASS
CHODL	21	17901263	18267373	0.12860881	suppress_segment_too_large
CHORDC1	11	90201160	90223364	0.062969153	PASS
CHP1	15	41230839	41281890	-0.396255771	PASS
CHP2	16	23754627	23758951	0.069936844	PASS
CHPF	2	219538947	219543787	0.025928102	PASS
CHPF2	7	151232489	151238827	-0.388946609	PASS
CHPT1	12	101696947	101744140	0.202141228	PASS
CHRAC1	8	140511298	140517137	0.113969953	PASS
CHRD	3	184380073	184390736	0.318278996	suppress_segment_too_large
CHRDL1	23	110673856	110795819	-0.012567603	PASS
CHRDL2	11	74696429	74731385	0.062969153	PASS
CHRFAM7	15	30357766	30393849	-0.396255771	PASS
CHRM1	11	62908679	62921807	0.182439925	suppress_segment_too_large
CHRM2	7	136868669	137020255	-0.388946609	PASS
CHRM3	1	239386565	239915452	-0.648598641	PASS
CHRM4	11	46385098	46386608	0.117376172	PASS
CHRM5	15	33968720	34067457	-0.396255771	PASS
CHRNA1	2	174747592	174787935	0.039726562	PASS

CHRNA10	11	3665587	3671384	-0.333835828	PASS
CHRNA2	8	27459761	27479883	-0.345962679	PASS
CHRNA3	15	78593052	78621295	-0.697600509	PASS
CHRNA4	20	63343223	63378401	-0.168668583	PASS
CHRNA5	15	78565520	78595269	-0.697600509	PASS
CHRNA6	8	42752620	42796392	-0.201142258	PASS
CHRNA7	15	31923438	32173018	-0.396255771	PASS
CHRNA9	4	40335329	40355217	-0.011382299	PASS
CHRNB1	17	7445061	7457707	0.128406487	PASS
CHRNB2	1	154567781	154580026	0.103015788	PASS
CHRNB3	8	42697376	42737407	-0.201142258	PASS
CHRNB4	15	78624119	78727754	-0.697600509	PASS
CHRND	2	232525993	232536667	0.025928102	PASS
CHRNE	17	4897774	4934438	0.128406487	PASS
CHRNG	2	232539727	232546403	0.025928102	PASS
CHST1	11	45648877	45665622	0.117376172	PASS
CHST10	2	100391860	100417656	0.048238121	PASS
CHST11	12	104455295	104762014	0.202141228	PASS
CHST12	7	2403560	2448483	-0.69513118	PASS
CHST13	3	126524283	126543291	0.313454204	suppress_segment_too_large
CHST14	15	40470998	40474571	-0.396255771	PASS
CHST15	10	124007666	124093607	0.063874692	PASS
CHST2	3	143119331	143124014	0.318278996	suppress_segment_too_large
CHST3	10	71964365	72013564	0.072405807	PASS
CHST4	16	71525233	71538746	-0.371357732	PASS
CHST5	16	75528535	75535247	-0.371357732	PASS
CHST6	16	75472052	75495445	-0.371357732	PASS
CHST7	23	46573784	46598408	-0.012567603	PASS
CHST8	19	33621955	33773509	0.093487731	suppress_segment_too_large
CHST9	18	26906481	27185317	-0.376397843	PASS
CHSY1	15	101175723	101251932	-0.697600509	PASS
CHSY3	5	129904472	130186634	-0.293443042	PASS
CHTF18	16	788046	800737	0.069936844	PASS
CHTF8	16	69118010	69132584	-0.371357732	PASS
CHTOP	1	153633982	153646306	0.103015788	PASS
CHUK	10	100188298	100229619	-0.367947924	PASS
CHURC1	14	64914361	64944591	0.060212819	PASS
CHURC1-I	14	64914485	65061803	0.060212819	PASS
CIAO1	2	96266132	96273349	0.048238121	PASS
CIAO2A	15	64072559	64094018	-0.697600509	PASS
CIAO2B	16	66932055	66934423	-0.371357732	PASS
CIAO3	16	729753	741329	0.069936844	PASS
CIAPIN1	16	57428169	57447528	-0.371357732	PASS
CIART	1	150282543	150287093	0.103015788	PASS
CIB1	15	90229975	90234047	-0.697600509	PASS
CIB2	15	78104606	78131544	-0.697600509	PASS

CIB3	19	16161368	16173525	0.093487731	suppress_segment_too_large
CIB4	2	26581202	26641368	0.040498426	PASS
CIC	19	42268537	42295797	0.093487731	suppress_segment_too_large
CIDEA	18	12254319	12277595	-0.052305056	suppress_segment_too_large
CIDEB	14	24305096	24311430	0.060212819	PASS
CIDEC	3	9866711	9880254	0.311018244	suppress_segment_too_large
CIITA	16	10866222	10943021	0.069936844	PASS
CILP	15	65194758	65211488	-0.697600509	PASS
CILP2	19	19538248	19546659	0.093487731	suppress_segment_too_large
CINP	14	102341102	102362916	-0.192197564	PASS
CIP2A	3	108549869	108589644	0.313454204	suppress_segment_too_large
CIPC	14	77098097	77117287	-0.192197564	PASS
CIR1	2	174348022	174395715	0.039726562	PASS
CIRBP	19	1259384	1274880	0.079632875	PASS
CISD1	10	58269058	58289586	0.072405807	PASS
CISD2	4	102868974	102892807	-0.011382299	PASS
CISD3	17	38730235	38735044	0.060555011	PASS
CISH	3	50606490	50611831	-0.234617007	PASS
CIT	12	119685790	119877291	0.202141228	PASS
CITED1	23	72301638	72307187	-0.012567603	PASS
CITED2	6	139371807	139374620	-0.035448111	PASS
CITED4	1	40861051	40862366	0.033763446	PASS
CIZ1	9	128166064	128204383	0.365190713	suppress_segment_too_large
CKAP2	13	52455429	52476628	-0.390786075	PASS
CKAP2L	2	112736607	112764677	-0.010901494	PASS
CKAP4	12	106237877	106304279	0.202141228	PASS
CKAP5	11	46743048	46846308	0.117376172	PASS
CKB	14	103519659	103523111	-0.192197564	PASS
CKLF	16	66552563	66566251	-0.371357732	PASS
CKLF-CM′	16	66552587	66579135	-0.371357732	PASS
CKM	19	45306414	45322977	0.14996833	PASS
CKMT1A	15	43692886	43699222	-0.396255771	PASS
CKMT1B	15	43593054	43604901	-0.396255771	PASS
CKMT2	5	81233285	81266397	-0.293443042	PASS
CKS1B	1	154974653	154979249	0.103015788	PASS
CKS2	9	89311198	89316703	0.365190713	suppress_segment_too_large
CLASP1	2	121337776	121649587	-0.475215623	PASS
CLASP2	3	33496245	33718356	0.311018244	suppress_segment_too_large
CLASRP	19	45039040	45070956	0.14996833	PASS
CLBA1	14	104985775	105010482	-0.192197564	PASS
CLC	19	39731250	39738028	0.093487731	suppress_segment_too_large
CLCA1	1	86468368	86500289	0.033763446	PASS
CLCA2	1	86424086	86456558	0.033763446	PASS
CLCA4	1	86547078	86580754	0.033763446	PASS
CLCC1	1	108929508	108963457	0.033763446	PASS
CLCF1	11	67364168	67374177	0.182439925	suppress_segment_too_large

CLCN1	7	143316126	143352083	-0.388946609	PASS
CLCN2	3	184346185	184361651	0.318278996	suppress_segment_too_large
CLCN3	4	169612633	169723673	-0.011382299	PASS
CLCN4	23	10156945	10237660	-0.012567603	PASS
CLCN5	23	49922615	50099235	-0.012567603	PASS
CLCN6	1	11806096	11848079	0.373964873	suppress_segment_too_large
CLCN7	16	1444934	1475580	0.069936844	PASS
CLCNKA	1	16018875	16034050	0.033763446	PASS
CLCNKB	1	16043736	16057308	0.033763446	PASS
CLDN1	3	190305701	190322475	0.318278996	suppress_segment_too_large
CLDN10	13	95433604	95579759	-0.390786075	PASS
CLDN11	3	170418865	170454733	0.318278996	suppress_segment_too_large
CLDN12	7	90383721	90513402	-0.262778904	PASS
CLDN14	21	36460621	36576569	-0.064425456	suppress_segment_too_large
CLDN15	7	101232092	101238820	-0.388946609	PASS
CLDN16	3	190322541	190412143	0.318278996	suppress_segment_too_large
CLDN17	21	30165564	30166756	0.12860881	suppress_segment_too_large
CLDN18	3	137998735	138033655	0.313454204	suppress_segment_too_large
CLDN19	1	42733093	42740254	0.033763446	PASS
CLDN2	23	106900164	106930861	-0.012567603	PASS
CLDN20	6	155264013	155276548	-0.035448111	PASS
CLDN22	4	183318194	183320774	-0.462744716	PASS
CLDN23	8	8701938	8704106	-0.345962679	PASS
CLDN24	4	183321764	183322426	-0.462744716	PASS
CLDN25	11	113779747	113780500	-0.356188624	PASS
CLDN3	7	73768997	73770270	-0.262778904	PASS
CLDN34	23	9967358	9968352	-0.012567603	PASS
CLDN4	7	73799542	73832693	-0.262778904	PASS
CLDN5	22	19523024	19527545	-0.575930959	PASS
CLDN6	16	3014712	3020071	0.069936844	PASS
CLDN7	17	7259903	7263983	0.128406487	PASS
CLDN8	21	30214006	30216073	0.12860881	suppress_segment_too_large
CLDN9	16	3012456	3014505	0.069936844	PASS
CLDND1	3	98497912	98523066	0.313454204	suppress_segment_too_large
CLDND2	19	51367098	51369003	-0.016761391	PASS
CLEC10A	17	7074537	7080307	0.128406487	PASS
CLEC11A	19	50723329	50725718	-0.016761391	PASS
CLEC12A	12	9951316	9995694	0.362961408	suppress_segment_too_large
CLEC12B	12	10010627	10018619	0.362961408	suppress_segment_too_large
CLEC14A	14	38254103	38256369	0.060212819	PASS
CLEC16A	16	10944488	11182189	0.069936844	PASS
CLEC17A	19	14583084	14611157	0.093487731	suppress_segment_too_large
CLEC18A	16	69950705	69964452	-0.371357732	PASS
CLEC18B	16	74408270	74421953	-0.371357732	PASS
CLEC18C	16	70173322	70187361	-0.371357732	PASS
CLEC19A	16	19285739	19322145	0.069936844	PASS

CLEC1A	12	10069554	10111627	0.362961408	suppress_segment_too_large
CLEC1B	12	9985642	10013424	0.362961408	suppress_segment_too_large
CLEC2A	12	9898673	9932381	0.362961408	suppress_segment_too_large
CLEC2B	12	9852984	9870136	0.362961408	suppress_segment_too_large
CLEC2D	12	9664969	9699555	0.362961408	suppress_segment_too_large
CLEC2L	7	139523856	139544984	-0.388946609	PASS
CLEC3A	16	78022515	78066761	-0.371357732	PASS
CLEC3B	3	45001548	45036071	-0.234617007	PASS
CLEC4A	12	8123632	8138607	-0.086128028	PASS
CLEC4C	12	7729415	7751605	-0.086128028	PASS
CLEC4D	12	8509475	8522366	0.362961408	suppress_segment_too_large
CLEC4E	12	8533305	8540963	0.362961408	suppress_segment_too_large
CLEC4F	2	70808643	70820600	-0.372959126	PASS
CLEC4G	19	7728957	7733906	0.079632875	PASS
CLEC4M	19	7763149	7769605	0.079632875	PASS
CLEC5A	7	141927357	141947007	-0.388946609	PASS
CLEC6A	12	8455926	8478330	-0.086128028	PASS
CLEC7A	12	10116777	10130258	0.362961408	suppress_segment_too_large
CLEC9A	12	10030677	10066027	0.362961408	suppress_segment_too_large
CLECL1	12	9715860	9733299	0.362961408	suppress_segment_too_large
CLGN	4	140388455	140427968	-0.011382299	PASS
CLHC1	2	55174791	55232563	0.040498426	PASS
CLIC1	6	31730581	31739763	0.048820648	PASS
CLIC2	23	155276211	155334657	-0.012567603	PASS
CLIC3	9	136994635	136996803	0.365190713	suppress_segment_too_large
CLIC4	1	24745357	24844324	0.033763446	PASS
CLIC5	6	45880827	46080348	0.048820648	PASS
CLIC6	21	34669389	34718227	0.12860881	suppress_segment_too_large
CLINT1	5	157785743	157859175	-0.150979337	PASS
CLIP1	12	122271432	122422632	0.202141228	PASS
CLIP2	7	74289475	74405943	-0.262778904	PASS
CLIP3	19	36014660	36033343	0.093487731	suppress_segment_too_large
CLIP4	2	29097705	29189643	0.040498426	PASS
CLK1	2	200853009	200864744	0.025928102	PASS
CLK2	1	155262868	155278491	0.103015788	PASS
CLK3	15	74598500	74645414	-0.697600509	PASS
CLK4	5	178602664	178630615	-0.150979337	PASS
CLLU1OS	12	92420094	92428148	0.202141228	PASS
CLMN	14	95181940	95319906	-0.192197564	PASS
CLMP	11	123069865	123195281	-0.356188624	PASS
CLN3	16	28474111	28495575	0.069936844	PASS
CLN5	13	76990660	77019143	-0.390786075	PASS
CLN6	15	68206992	68257211	-0.697600509	PASS
CLN8	8	1755778	1801711	-0.313874214	PASS
CLNK	4	10486395	10684865	0.279089364	PASS
CLNS1A	11	77514936	77637805	0.062969153	PASS

CLOCK	4	55427903	55547138	-0.011382299	PASS
CLP1	11	57648992	57661868	-0.129266491	PASS
CLPB	11	72285495	72434680	0.062969153	PASS
CLPP	19	6361452	6368910	0.079632875	PASS
CLPS	6	35794982	35797344	0.048820648	PASS
CLPSL1	6	35781017	35793675	0.048820648	PASS
CLPSL2	6	35776594	35779552	0.048820648	PASS
CLPTM1	19	44954585	44993341	0.14996833	PASS
CLPTM1L	5	1317744	1345099	0.055007813	PASS
CLPX	15	65148219	65185342	-0.697600509	PASS
CLRN1	3	150926163	150972999	0.318278996	suppress_segment_too_large
CLRN2	4	17515165	17527104	0.279089364	PASS
CLRN3	10	127877841	127892947	0.063874692	PASS
CLSPN	1	35720218	35769967	0.033763446	PASS
CLSTN1	1	9729026	9824526	0.373964873	suppress_segment_too_large
CLSTN2	3	139935185	140577397	-0.356957581	PASS
CLSTN3	12	7129698	7158945	-0.086128028	PASS
CLTA	9	36190856	36304781	-0.310444659	PASS
CLTB	5	176392455	176416569	-0.150979337	PASS
CLTC	17	59619689	59696956	0.088516311	PASS
CLTCL1	22	19179473	19291716	-0.575930959	PASS
CLTRN	23	15627318	15675012	-0.012567603	PASS
CLU	8	27596917	27615031	-0.345962679	PASS
CLUAP1	16	3500924	3539048	0.069936844	PASS
CLUH	17	2689386	2712663	0.128406487	PASS
CLUL1	18	596988	650334	-0.052305056	suppress_segment_too_large
CLVS1	8	61057158	61501645	-0.201142258	PASS
CLVS2	6	122995971	123072927	-1.97829255	PASS
CLYBL	13	99606669	99897134	-0.390786075	PASS
CMA1	14	24505353	24508265	0.060212819	PASS
CMAS	12	22046174	22065674	0.362961408	suppress_segment_too_large
CMBL	5	10275875	10308026	0.055007813	PASS
CMC1	3	28241584	28325142	0.311018244	suppress_segment_too_large
CMC2	16	80966448	81020270	-0.371357732	PASS
CMC4	23	155061622	155071362	-0.012567603	PASS
CMIP	16	81445170	81711762	-0.371357732	PASS
CMKLR1	12	108288044	108339341	0.202141228	PASS
CMPK1	1	47333797	47378839	0.033763446	PASS
CMPK2	2	6840570	6866635	0.040498426	PASS
CMSS1	3	99817834	100181732	0.313454204	suppress_segment_too_large
CMTM1	16	66566393	66579137	-0.371357732	PASS
CMTM2	16	66579448	66588275	-0.371357732	PASS
CMTM3	16	66603874	66613892	-0.371357732	PASS
CMTM4	16	66614750	66696707	-0.371357732	PASS
CMTM5	14	23376773	23379772	0.060212819	PASS
CMTM6	3	32481312	32503408	0.311018244	suppress_segment_too_large

CMTM7	3	32391671	32483067	0.311018244	suppress_segment_too_large
CMTM8	3	32238679	32370325	0.311018244	suppress_segment_too_large
CMTR1	6	37433219	37482827	0.048820648	PASS
CMTR2	16	71281389	71289715	-0.371357732	PASS
CMYA5	5	79689877	79800240	-0.293443042	PASS
CNBD1	8	86866442	87615219	0.279445683	PASS
CNBD2	20	35954564	36030700	-0.168668583	PASS
CNBP	3	129169484	129183922	0.313454204	suppress_segment_too_large
CNDP1	18	74534440	74587212	-0.376397843	PASS
CNDP2	18	74495816	74523454	-0.376397843	PASS
CNEP1R1	16	50024410	50037088	0.069936844	PASS
CNFN	19	42387019	42390287	0.093487731	suppress_segment_too_large
CNGA1	4	47935977	48016672	-0.011382299	PASS
CNGA2	23	151738451	151745304	-0.012567603	PASS
CNGA3	2	98346155	98398601	0.048238121	PASS
CNGA4	11	6234765	6244429	-0.405444717	PASS
CNGB1	16	57882340	57971116	-0.371357732	PASS
CNGB3	8	86553977	86743675	0.279445683	PASS
CNIH1	14	54423560	54441431	0.060212819	PASS
CNIH2	11	66278190	66285301	0.182439925	suppress_segment_too_large
CNIH3	1	224434660	224740549	-0.256698369	PASS
CNIH4	1	224356850	224379459	-0.256698369	PASS
CNKSR1	1	26177403	26189886	0.033763446	PASS
CNKSR2	23	21372801	21654695	-0.012567603	PASS
CNKSR3	6	154387504	154510659	-0.035448111	PASS
CNMD	13	52703264	52739812	-0.390786075	PASS
CNN1	19	11538717	11550323	0.093487731	suppress_segment_too_large
CNN2	19	1026581	1039068	0.079632875	PASS
CNN3	1	94896949	94927278	0.033763446	PASS
CNNM1	10	99329099	99394330	-0.367947924	PASS
CNNM2	10	102918293	103090221	-0.367947924	PASS
CNNM3	2	96816245	96833911	0.048238121	PASS
CNNM4	2	96760902	96811891	0.048238121	PASS
CNOT1	16	58519951	58629886	-0.371357732	PASS
CNOT10	3	32685145	32773875	0.311018244	suppress_segment_too_large
CNOT11	2	101252802	101270316	0.048238121	PASS
CNOT2	12	70242994	70354993	-0.202191512	PASS
CNOT3	19	54137717	54155708	0.206912349	PASS
CNOT4	7	135361795	135510127	-0.388946609	PASS
CNOT6	5	180494412	180578405	-0.150979337	PASS
CNOT6L	4	77713387	77819615	-0.011382299	PASS
CNOT7	8	17224964	17246878	-0.345962679	PASS
CNOT8	5	154857553	154876793	-0.293443042	PASS
CNOT9	2	218568580	218597080	0.025928102	PASS
CNP	17	41966741	41977731	0.060555011	PASS
CNPPD1	2	219171897	219178106	0.025928102	PASS

CNPY1	7	155474206	155555450	-0.411415677	PASS
CNPY2	12	56309842	56316336	-0.202191512	PASS
CNPY3	6	42929192	42939287	0.048820648	PASS
CNPY4	7	100119613	100125511	-0.262778904	PASS
CNR1	6	88139864	88166359	-0.368590549	PASS
CNR2	1	23870526	23913362	0.033763446	PASS
CNRIP1	2	68284171	68320051	-0.372959126	PASS
CNST	1	246566444	246668584	-0.368111568	PASS
CNTD1	17	42798792	42811587	0.088516311	PASS
CNTD2	19	40222208	40226697	0.093487731	suppress_segment_too_large
CNTF	11	58622673	58625733	-0.129266491	PASS
CNTFR	9	34551432	34590140	-0.310444659	PASS
CNTLN	9	17134982	17503923	-0.310444659	PASS
CNTN1	12	40692442	41072418	-0.202191512	PASS
CNTN2	1	205042937	205078284	-0.256698369	PASS
CNTN3	3	74262568	74521140	-0.234617007	PASS
CNTN4	3	2098813	3057956	0.311018244	suppress_segment_too_large
CNTN5	11	99020953	100358885	0.062969153	PASS
CNTN6	3	1092576	1404217	0.311018244	suppress_segment_too_large
CNTNAP1	17	42682613	42699814	0.088516311	PASS
CNTNAP2	7	146116002	148420998	-0.388946609	PASS
CNTNAP3	9	39072767	39288315	-0.310444659	PASS
CNTNAP3	9	41890314	42129510	-0.310444659	PASS
CNTNAP3	9	61330717	61453030	-0.310444659	PASS
CNTNAP4	16	76277278	76559238	-0.371357732	PASS
CNTNAP5	2	124025287	124915287	-0.475215623	PASS
CNTRL	9	121074863	121177610	0.365190713	suppress_segment_too_large
CNTROB	17	7932101	7949918	0.128406487	PASS
COA1	7	43608456	43729717	-0.69513118	PASS
COA3	17	42795147	42798704	0.088516311	PASS
COA4	11	73872667	73876988	0.062969153	PASS
COA5	2	98599310	98608515	0.048238121	PASS
COA6	1	234373456	234384049	-0.256698369	PASS
COA7	1	52684451	52698366	0.033763446	PASS
COASY	17	42561467	42566277	0.088516311	PASS
COBL	7	51016212	51316818	-0.750061359	PASS
COBLL1	2	164653624	164843679	0.039726562	PASS
COCH	14	30874514	30895065	0.060212819	PASS
COG1	17	73192632	73208507	0.088516311	PASS
COG2	1	230642489	230693982	-0.256698369	PASS
COG3	13	45464898	45536630	-0.390786075	PASS
COG4	16	70480568	70523565	-0.371357732	PASS
COG5	7	107201555	107564514	-0.388946609	PASS
COG6	13	39655627	39791665	-0.390786075	PASS
COG7	16	23388493	23453180	0.069936844	PASS
COG8	16	69320140	69339667	-0.371357732	PASS

COIL	17	56938187	56961054	0.088516311	PASS
COL10A1	6	116118923	116158747	-0.368590549	PASS
COL11A1	1	102876467	103108872	0.033763446	PASS
COL11A2	6	33162681	33192499	0.048820648	PASS
COL12A1	6	75084326	75206051	-0.368590549	PASS
COL13A1	10	69801867	69964275	0.072405807	PASS
COL14A1	8	120059780	120372036	0.279445683	PASS
COL15A1	9	98943179	99070792	0.365190713	suppress_segment_too_large
COL16A1	1	31652247	31704319	0.033763446	PASS
COL17A1	10	104031286	104085957	-0.367947924	PASS
COL18A1	21	45405137	45513720	-0.064425456	suppress_segment_too_large
COL19A1	6	69866571	70209976	-0.368590549	PASS
COL1A1	17	50183289	50201632	0.088516311	PASS
COL1A2	7	94394561	94431232	-0.262778904	PASS
COL20A1	20	63293186	63334851	-0.168668583	PASS
COL21A1	6	56056590	56394094	0.048820648	PASS
COL22A1	8	138588235	138914006	0.113969953	PASS
COL23A1	5	178237618	178590555	-0.150979337	PASS
COL24A1	1	85729233	86156943	0.033763446	PASS
COL25A1	4	108808725	109302752	-0.011382299	PASS
COL26A1	7	101362820	101559024	-0.388946609	PASS
COL27A1	9	114155560	114312511	0.365190713	suppress_segment_too_large
COL28A1	7	7356203	7535853	-0.69513118	PASS
COL2A1	12	47972965	48004554	-0.202191512	PASS
COL3A1	2	188974320	189012746	0.025928102	PASS
COL4A1	13	110148963	110307233	-0.390786075	PASS
COL4A2	13	110305812	110513209	-0.390786075	PASS
COL4A3	2	227164565	227314792	0.025928102	PASS
COL4A3BI	5	75356345	75512138	-0.293443042	PASS
COL4A4	2	227002711	227164453	0.025928102	PASS
COL4A5	23	108439844	108697545	-0.012567603	PASS
COL4A6	23	108155607	108439497	-0.012567603	PASS
COL5A1	9	134641774	134844843	0.365190713	suppress_segment_too_large
COL5A2	2	189031896	189225312	0.025928102	PASS
COL5A3	19	9959561	10010471	0.093487731	suppress_segment_too_large
COL6A1	21	45981737	46005050	-0.064425456	suppress_segment_too_large
COL6A2	21	46098097	46132849	-0.064425456	suppress_segment_too_large
COL6A3	2	237324003	237414375	0.025928102	PASS
COL6A5	3	130345516	130484844	0.313454204	suppress_segment_too_large
COL6A6	3	130560334	130678155	0.313454204	suppress_segment_too_large
COL7A1	3	48564073	48595267	-0.234617007	PASS
COL8A1	3	99638475	99799226	0.313454204	suppress_segment_too_large
COL8A2	1	36095236	36125220	0.033763446	PASS
COL9A1	6	70215061	70303083	-0.368590549	PASS
COL9A2	1	40300487	40317813	0.033763446	PASS
COL9A3	20	62816244	62841159	-0.168668583	PASS

COLCA2	11	111298555	111308735	-0.356188624	PASS
COLEC10	8	118995452	119106582	0.279445683	PASS
COLEC11	2	3594832	3644644	0.040498426	PASS
COLEC12	18	316740	500722	-0.052305056	suppress_segment_too_large
COLGALT	19	17555594	17583162	0.093487731	suppress_segment_too_large
COLGALT	1	183929854	184037729	-0.027073548	PASS
COLQ	3	15450133	15521751	0.311018244	suppress_segment_too_large
COMMD1	2	61888724	62147247	-0.372959126	PASS
COMMD1(	5	116084991	116412762	-0.293443042	PASS
COMMD2	3	149738470	149752499	0.318278996	suppress_segment_too_large
COMMD3	10	22315974	22320308	0.039811807	PASS
COMMD3-	10	22316388	22329542	0.039811807	PASS
COMMD4	15	75335891	75343224	-0.697600509	PASS
COMMD5	8	144841042	144853736	0.307788765	PASS
COMMD6	13	75525219	75549439	-0.390786075	PASS
COMMD7	20	32702691	32743997	-0.168668583	PASS
COMMD8	4	47450796	47463719	-0.011382299	PASS
COMMD9	11	36269284	36289449	-0.405444717	PASS
COMP	19	18782773	18791314	0.093487731	suppress_segment_too_large
COMT	22	19941607	19969975	-0.575930959	PASS
COMTD1	10	75233969	75236030	0.072405807	PASS
COP1	1	175944831	176207493	-0.027073548	PASS
COPA	1	160288686	160343400	-0.027073548	PASS
COPB1	11	14443440	14500027	-0.405444717	PASS
COPB2	3	139355600	139389732	0.313454204	suppress_segment_too_large
COPE	19	18899514	18919397	0.093487731	suppress_segment_too_large
COPG1	3	129249606	129277773	0.313454204	suppress_segment_too_large
COPG2	7	130506238	130668748	-0.388946609	PASS
COPRS	17	31851864	31859337	0.060555011	PASS
COPS2	15	49106068	49155661	-0.396255771	PASS
COPS3	17	17246820	17281293	0.024610076	PASS
COPS4	4	83034447	83075818	-0.011382299	PASS
COPS5	8	67043079	67083783	-0.201142258	PASS
COPS6	7	100088954	100092200	-0.262778904	PASS
COPS7A	12	6723741	6731875	-0.086128028	PASS
COPS7B	2	231781671	231809254	0.025928102	PASS
COPS8	2	237085312	237100466	0.025928102	PASS
COPS9	2	240126563	240136807	0.025928102	PASS
COPZ1	12	54301202	54351849	-0.202191512	PASS
COPZ2	17	48026167	48038030	0.088516311	PASS
COQ10A	12	56266858	56270966	-0.202191512	PASS
COQ10B	2	197453423	197475308	0.025928102	PASS
COQ2	4	83261536	83284914	-0.011382299	PASS
COQ3	6	99369400	99394204	-0.368590549	PASS
COQ4	9	128322536	128334072	0.365190713	suppress_segment_too_large
COQ5	12	120503274	120534434	0.202141228	PASS

COQ6	14	73949926	73963670	0.060212819	PASS
COQ7	16	19067599	19080095	0.069936844	PASS
COQ8A	1	226897536	226987545	-0.256698369	PASS
COQ8B	19	40691529	40718207	0.093487731	suppress_segment_too_large
COQ9	16	57447425	57461275	-0.371357732	PASS
CORIN	4	47593998	47838106	-0.011382299	PASS
CORO1A	16	30182827	30189076	0.069936844	PASS
CORO1B	11	67435510	67443821	0.182439925	suppress_segment_too_large
CORO1C	12	108645109	108731596	0.202141228	PASS
CORO2A	9	98120975	98192640	0.365190713	suppress_segment_too_large
CORO2B	15	68578969	68727806	-0.697600509	PASS
CORO6	17	29614756	29622907	0.060555011	PASS
CORO7	16	4354542	4425705	0.069936844	PASS
CORO7-PA	16	4340251	4420494	0.069936844	PASS
CORT	1	10449719	10451902	0.373964873	suppress_segment_too_large
COTL1	16	84565594	84618077	-0.371357732	PASS
COX10	17	14069496	14208677	-0.139031004	PASS
COX11	17	54951902	54968785	0.088516311	PASS
COX14	12	50111979	50120457	-0.202191512	PASS
COX15	10	99711844	99732100	-0.367947924	PASS
COX16	14	70325081	70359731	0.060212819	PASS
COX17	3	119654513	119677454	0.313454204	suppress_segment_too_large
COX18	4	73052362	73069755	-0.011382299	PASS
COX19	7	898778	975599	-0.69513118	PASS
COX20	1	244835322	244845057	-0.368111568	PASS
COX4I1	16	85798633	85807044	-0.371357732	PASS
COX4I2	20	31637888	31645006	-0.168668583	PASS
COX5A	15	74919791	74938168	-0.697600509	PASS
COX5B	2	97646040	97648383	0.048238121	PASS
COX6A1	12	120438090	120440742	0.202141228	PASS
COX6A2	16	31427731	31428428	0.069936844	PASS
COX6B1	19	35648223	35658861	0.093487731	suppress_segment_too_large
COX6B2	19	55349306	55354814	0.121336758	PASS
COX6C	8	99873200	99894062	0.279445683	PASS
COX7A1	19	36150922	36152869	0.093487731	suppress_segment_too_large
COX7A2	6	75237675	75250323	-0.368590549	PASS
COX7A2L	2	42333546	42425088	0.040498426	PASS
COX7B	23	77899438	77907373	-0.012567603	PASS
COX7B2	4	46734827	46909235	-0.011382299	PASS
COX7C	5	86617904	86620962	-0.293443042	PASS
COX8A	11	63974607	63976543	0.182439925	suppress_segment_too_large
COX8C	14	93347191	93348356	-0.192197564	PASS
CP	3	149162410	149222055	0.318278996	suppress_segment_too_large
CPA1	7	130380339	130388114	-0.388946609	PASS
CPA2	7	130266827	130289798	-0.388946609	PASS
CPA3	3	148865256	148897196	0.318278996	suppress_segment_too_large

CPA4	7	130293134	130324180	-0.388946609	PASS
CPA5	7	130344816	130368730	-0.388946609	PASS
CPA6	8	67422038	67746385	-0.201142258	PASS
CPAMD8	19	16892947	17026815	0.093487731	suppress_segment_too_large
CPB1	3	148791102	148860187	0.318278996	suppress_segment_too_large
CPB2	13	46053195	46105033	-0.390786075	PASS
CPD	17	30378905	30469989	0.060555011	PASS
CPE	4	165361194	165498320	-0.011382299	PASS
CPEB1	15	82543201	82648861	-0.697600509	PASS
CPEB2	4	15002674	15070153	0.279089364	PASS
CPEB3	10	92046692	92291087	-0.39678585	PASS
CPEB4	5	173888280	173961976	-0.150979337	PASS
CPED1	7	120988677	121297444	-0.388946609	PASS
CPLANE1	5	37106228	37249428	0.055007813	PASS
CPLANE2	1	16231700	16237162	0.033763446	PASS
CPLX1	4	784957	826198	0.279089364	PASS
CPLX2	5	175796310	175884020	-0.150979337	PASS
CPLX3	15	74826547	74831802	-0.697600509	PASS
CPLX4	18	59275156	59318649	-0.376397843	PASS
CPM	12	68842197	68971570	-0.202191512	PASS
CPN1	10	100042193	100081877	-0.367947924	PASS
CPN2	3	194339765	194351328	0.326834516	PASS
CPNE1	20	35626031	35664956	-0.168668583	PASS
CPNE2	16	57092537	57148367	-0.371357732	PASS
CPNE3	8	86514427	86561498	0.279445683	PASS
CPNE4	3	131533555	132285410	0.313454204	suppress_segment_too_large
CPNE5	6	36740775	36840002	0.048820648	PASS
CPNE6	14	24070837	24078100	0.060212819	PASS
CPNE7	16	89575768	89597246	-0.371357732	PASS
CPNE8	12	38646822	38907430	-0.202191512	PASS
CPNE9	3	9703807	9729908	0.311018244	suppress_segment_too_large
CPO	2	206939554	206969474	0.025928102	PASS
CPOX	3	98579446	98593723	0.313454204	suppress_segment_too_large
CPPED1	16	12659799	12804017	0.069936844	PASS
CPQ	8	96645227	97149654	0.279445683	PASS
CPS1	2	210477682	210679107	0.025928102	PASS
CPSF1	8	144393229	144409349	0.307788765	PASS
CPSF2	14	92121937	92172145	-0.192197564	PASS
CPSF3	2	9423568	9473101	0.040498426	PASS
CPSF4	7	99438922	99457371	-0.262778904	PASS
CPSF4L	17	73248449	73262352	0.088516311	PASS
CPSF6	12	69239537	69274358	-0.202191512	PASS
CPSF7	11	61402641	61430031	0.182439925	suppress_segment_too_large
CPT1A	11	68754620	68844410	0.182439925	suppress_segment_too_large
CPT1B	22	50568861	50578465	-0.808211634	PASS
CPT1C	19	49690898	49713731	0.14996833	PASS

CPT2	1	53196429	53214197	0.033763446	PASS
CPTP	1	1324756	1328897	0.373964873	suppress_segment_too_large
CPVL	7	28995231	29195451	-0.69513118	PASS
CPXCR1	23	88747225	88754785	-0.012567603	PASS
CPXM1	20	2794069	2800637	-0.168668583	PASS
CPXM2	10	123706207	123940267	0.063874692	PASS
CPZ	4	8592660	8619759	0.279089364	PASS
CR1	1	207496147	207641765	-0.256698369	PASS
CR1L	1	207645113	207738416	-0.256698369	PASS
CR2	1	207454230	207489895	-0.256698369	PASS
CRABP1	15	78340324	78348230	-0.697600509	PASS
CRABP2	1	156699606	156705816	0.103015788	PASS
CRACR2A	12	3606633	3764819	-0.086128028	PASS
CRACR2B	11	826144	831991	-0.333835828	PASS
CRADD	12	93677375	93894840	0.202141228	PASS
CRAMP1	16	1612325	1677908	0.069936844	PASS
CRAT	9	129094810	129111189	0.365190713	suppress_segment_too_large
CRB1	1	197268204	197478455	-0.027073548	PASS
CRB2	9	123356170	123380324	0.365190713	suppress_segment_too_large
CRB3	19	6463777	6467221	0.079632875	PASS
CRBN	3	3144628	3179727	0.311018244	suppress_segment_too_large
CRCP	7	66114604	66154568	-0.750061359	PASS
CRCT1	1	152514502	152516010	0.103015788	PASS
CREB1	2	207529737	207603431	0.025928102	PASS
CREB3	9	35732335	35737004	-0.310444659	PASS
CREB3L1	11	46277661	46321422	0.117376172	PASS
CREB3L2	7	137874979	138002067	-0.388946609	PASS
CREB3L3	19	4153601	4173054	0.079632875	PASS
CREB3L4	1	153967534	153974363	0.103015788	PASS
CREB5	7	28299321	28825894	-0.69513118	PASS
CREBBP	16	3725054	3880726	0.069936844	PASS
CREBL2	12	12611827	12645108	0.362961408	suppress_segment_too_large
CREBRF	5	173056352	173139284	-0.150979337	PASS
CREBZF	11	85659708	85682908	0.062969153	PASS
CREG1	1	167529117	167553805	-0.027073548	PASS
CREG2	2	101345551	101387595	0.048238121	PASS
CRELD1	3	9933822	9945413	0.311018244	suppress_segment_too_large
CRELD2	22	49918167	49927540	-0.808211634	PASS
CREM	10	35126791	35212958	0.039811807	PASS
CRH	8	66176382	66178725	-0.201142258	PASS
CRHBP	5	76952713	76981158	-0.293443042	PASS
CRHR1	17	45784280	45835828	0.088516311	PASS
CRHR2	7	30651943	30700129	-0.69513118	PASS
CRIM1	2	36355926	36551135	0.040498426	PASS
CRIP1	14	105486317	105488947	-0.192197564	PASS
CRIP2	14	105472962	105480170	-0.192197564	PASS

CRIP3	6	43299710	43308797	0.048820648	PASS
CRIPT	2	46616416	46625742	0.040498426	PASS
CRISP1	6	49834257	49877096	0.048820648	PASS
CRISP2	6	49692358	49713590	0.048820648	PASS
CRISP3	6	49727384	49744437	0.048820648	PASS
CRISPLD1	8	74984515	75034558	-0.201142258	PASS
CRISPLD2	16	84819984	84920768	-0.371357732	PASS
CRK	17	1420689	1463162	0.128406487	PASS
CRKL	22	20917426	20953749	-0.575930959	PASS
CRLF1	19	18572220	18607741	0.093487731	suppress_segment_too_large
CRLF2	23	1187549	1212750	-0.012567603	PASS
CRLF3	17	30769388	30824776	0.060555011	PASS
CRLS1	20	6006090	6040053	-0.168668583	PASS
CRMP1	4	5748084	5893058	0.279089364	PASS
CRNKL1	20	20034368	20056046	-0.168668583	PASS
CRNN	1	152409243	152414263	0.103015788	PASS
CROCC	1	16740273	16972979	0.033763446	PASS
CROCC2	2	240906330	240993311	0.025928102	PASS
CROT	7	87345681	87399795	-0.262778904	PASS
CRP	1	159712289	159714589	-0.467855874	PASS
CRTAC1	10	97865000	98030828	-0.367947924	PASS
CRTAM	11	122838500	122872639	-0.356188624	PASS
CRTAP	3	33113979	33147773	0.311018244	suppress_segment_too_large
CRTC1	19	18683677	18782333	0.093487731	suppress_segment_too_large
CRTC2	1	153947669	153958625	0.103015788	PASS
CRTC3	15	90529925	90645345	-0.697600509	PASS
CRX	19	47819779	47843330	0.14996833	PASS
CRY1	12	106991364	107093829	0.202141228	PASS
CRY2	11	45847118	45883248	0.117376172	PASS
CRYAA	21	43169008	43172805	-0.064425456	suppress_segment_too_large
CRYAA2	21	6560714	6564489	-0.304975024	PASS
CRYAB	11	111908565	111923722	-0.356188624	PASS
CRYBA1	17	29246863	29254494	0.060555011	PASS
CRYBA2	2	218990189	218993421	0.025928102	PASS
CRYBA4	22	26621964	26630672	-0.575930959	PASS
CRYBB1	22	26599278	26618088	-0.575930959	PASS
CRYBB2	22	25219522	25231869	-0.575930959	PASS
CRYBB3	22	25199850	25207363	-0.575930959	PASS
CRYBG1	6	106360808	106571978	-0.368590549	PASS
CRYBG2	1	26321698	26360080	0.033763446	PASS
CRYBG3	3	97822040	97944963	0.313454204	suppress_segment_too_large
CRYGA	2	208160740	208163576	0.025928102	PASS
CRYGB	2	208142573	208146168	0.025928102	PASS
CRYGC	2	208128137	208129830	0.025928102	PASS
CRYGD	2	208121607	208124501	0.025928102	PASS
CRYGN	7	151428835	151440813	-0.388946609	PASS

CRYGS	3	186538441	186546702	0.318278996	suppress_segment_too_large
CRYL1	13	20403666	20525873	-0.390786075	PASS
CRYM	16	21238874	21303083	0.069936844	PASS
CRYZ	1	74705482	74733408	0.033763446	PASS
CRYZL1	21	33589341	33643926	0.12860881	suppress_segment_too_large
CS	12	56271699	56300392	-0.202191512	PASS
CSAD	12	53157663	53180909	-0.202191512	PASS
CSAG1	23	152727484	152733735	-0.012567603	PASS
CSAG3	23	152753921	152760222	-0.012567603	PASS
CSDC2	22	41560763	41577741	-0.575930959	PASS
CSDE1	1	114716913	114758676	0.033763446	PASS
CSE1L	20	49046246	49096960	-0.168668583	PASS
CSF1	1	109910242	109930992	0.033763446	PASS
CSF1R	5	150053291	150113372	-0.293443042	PASS
CSF2	5	132073790	132076170	-0.293443042	PASS
CSF2RA	23	1268800	1310381	-0.012567603	PASS
CSF2RB	22	36913628	36940449	-0.575930959	PASS
CSF3	17	40015361	40017813	0.060555011	PASS
CSF3R	1	36466043	36483278	0.033763446	PASS
CSGALNA	8	19404161	19758029	-0.345962679	PASS
CSGALNA	10	43138486	43185308	-0.404852538	PASS
CSH1	17	63894909	63896661	0.088516311	PASS
CSH2	17	63872012	63873766	0.088516311	PASS
CSHL1	17	63909597	63918838	0.088516311	PASS
CSK	15	74782057	74803198	-0.697600509	PASS
CSKMT	11	62665309	62668496	0.182439925	suppress_segment_too_large
CSMD1	8	2935353	4994972	-1.076352548	PASS
CSMD2	1	33513999	34165842	0.033763446	PASS
CSMD3	8	112222928	113437099	0.279445683	PASS
CSN1S1	4	69931081	69946574	-0.011382299	PASS
CSN2	4	69955256	69961007	-0.011382299	PASS
CSN3	4	70242588	70251428	-0.011382299	PASS
CSNK1A1	5	149492197	149551552	-0.293443042	PASS
CSNK1A1L	13	37103259	37105664	-0.390786075	PASS
CSNK1D	17	82239023	82273731	0.088516311	PASS
CSNK1E	22	38290691	38318084	-0.575930959	PASS
CSNK1G1	15	64165517	64356259	-0.697600509	PASS
CSNK1G2	19	1941149	1981338	0.079632875	PASS
CSNK1G3	5	123512099	123617045	-0.293443042	PASS
CSNK2A1	20	472498	543835	-0.168668583	PASS
CSNK2A2	16	58157907	58197920	-0.371357732	PASS
CSNK2A3	11	11351942	11353357	-0.405444717	PASS
CSNK2B	6	31665236	31670343	0.048820648	PASS
CSPG4	15	75674322	75712848	-0.697600509	PASS
CSPG5	3	47562239	47580792	-0.234617007	PASS
CSPP1	8	67062426	67196263	-0.201142258	PASS

CSRNP1	3	39141855	39154562	-0.234617007	PASS
CSRNP2	12	51061205	51083664	-0.202191512	PASS
CSRNP3	2	165469647	165689407	0.039726562	PASS
CSRP1	1	201483530	201509456	-0.256698369	PASS
CSRP2	12	76858715	76879060	0.202141228	PASS
CSRP3	11	19182037	19210571	-0.405444717	PASS
CST1	20	23747553	23751268	-0.168668583	PASS
CST11	20	23450403	23452857	-0.168668583	PASS
CST2	20	23823769	23826731	-0.168668583	PASS
CST3	20	23626706	23638473	-0.168668583	PASS
CST4	20	23685640	23689040	-0.168668583	PASS
CST5	20	23875935	23879750	-0.168668583	PASS
CST6	11	66011841	66013505	0.182439925	suppress_segment_too_large
CST7	20	24949230	24959928	-0.168668583	PASS
CST8	20	23491101	23496018	-0.168668583	PASS
CST9	20	23602410	23605876	-0.168668583	PASS
CST9L	20	23564732	23568749	-0.168668583	PASS
CSTA	3	122325244	122341972	0.313454204	suppress_segment_too_large
CSTB	21	43772511	43776445	-0.064425456	suppress_segment_too_large
CSTF1	20	56392371	56406369	-0.168668583	PASS
CSTF2	23	100820359	100840932	-0.012567603	PASS
CSTF2T	10	51695487	51699591	-0.404852538	PASS
CSTF3	11	33077188	33162371	-0.405444717	PASS
CSTL1	20	23439685	23444930	-0.168668583	PASS
CT45A1	23	135713453	135723539	-0.012567603	PASS
CT45A10	23	135881063	135889086	-0.012567603	PASS
CT45A3	23	135759846	135768191	-0.012567603	PASS
CT47B1	23	120872603	120875929	-0.012567603	PASS
CT55	23	135156536	135171398	-0.012567603	PASS
CT62	15	71110244	71115500	-0.697600509	PASS
CT83	23	116461682	116463003	-0.012567603	PASS
CTAG2	23	154651972	154653579	-0.012567603	PASS
CTAGE1	18	22413601	22417915	-0.376397843	PASS
CTAGE15	7	143571801	143574387	-0.388946609	PASS
CTAGE4	7	144183466	144186053	-0.388946609	PASS
CTAGE6	7	143755089	143757696	-0.388946609	PASS
CTAGE8	7	144266701	144269288	-0.388946609	PASS
CTAGE9	6	131708684	131711017	-0.458570262	PASS
CTBP1	4	1211448	1249953	0.279089364	PASS
CTBP2	10	124984317	125161170	0.063874692	PASS
CTBS	1	84549606	84574480	0.033763446	PASS
CTC1	17	8224821	8248095	0.128406487	PASS
CTCF	16	67562407	67639185	-0.371357732	PASS
CTCFL	20	57495966	57525652	-0.168668583	PASS
CTDNEP1	17	7243591	7252491	0.128406487	PASS
CTDP1	18	79679801	79756623	-0.376397843	PASS

CTDSP1	2	218398256	218405941	0.025928102	PASS
CTDSP2	12	57819927	57846739	-0.202191512	PASS
CTDSPL	3	37861960	37984469	-0.234617007	PASS
CTDSPL2	15	44427234	44529038	-0.396255771	PASS
CTF1	16	30896607	30903560	0.069936844	PASS
CTGF	6	131948176	131951373	-0.458570262	PASS
CTH	1	70411218	70439851	0.033763446	PASS
CTHRC1	8	103371515	103382997	0.279445683	PASS
CTIF	18	48539046	48863217	-0.376397843	PASS
CTLA4	2	203867771	203873965	0.025928102	PASS
CTNNA1	5	138610967	138935034	-0.293443042	PASS
CTNNA2	2	79185231	80648861	-0.372959126	PASS
CTNNA3	10	65912518	67696169	0.072405807	PASS
CTNNAL1	9	108942569	109013529	0.365190713	suppress_segment_too_large
CTNNB1	3	41194741	41260096	-0.234617007	PASS
CTNNBIP1	1	9848276	9910336	0.373964873	suppress_segment_too_large
CTNNBL1	20	37693955	37872129	-0.168668583	PASS
CTNND1	11	57753243	57819546	-0.129266491	PASS
CTNND2	5	10971840	11904043	0.055007813	PASS
CTNS	17	3636468	3661542	0.128406487	PASS
CTPS1	1	40979335	41012565	0.033763446	PASS
CTPS2	23	16588003	16712936	-0.012567603	PASS
CTR9	11	10750987	10801625	-0.405444717	PASS
CTRB1	16	75219000	75226338	-0.371357732	PASS
CTRB2	16	75204096	75207185	-0.371357732	PASS
CTRC	1	15438439	15449242	0.033763446	PASS
CTRL	16	67927640	67932414	-0.371357732	PASS
CTSA	20	45890144	45898820	-0.168668583	PASS
CTSB	8	11842524	11869448	-0.345962679	PASS
CTSC	11	88293592	88337787	0.062969153	PASS
CTSD	11	1752752	1764573	-0.333835828	PASS
CTSE	1	206009264	206023909	-0.256698369	PASS
CTSF	11	66563463	66568841	0.182439925	suppress_segment_too_large
CTSG	14	24573522	24576260	0.060212819	PASS
CTSH	15	78921058	78949574	-0.697600509	PASS
CTSK	1	150796208	150808323	0.103015788	PASS
CTSL	9	87725519	87731393	0.365190713	suppress_segment_too_large
CTSO	4	155924118	155953917	-0.011382299	PASS
CTSS	1	150730196	150765957	0.103015788	PASS
CTSV	9	97029679	97039643	0.365190713	suppress_segment_too_large
CTSW	11	65879809	65883741	0.182439925	suppress_segment_too_large
CTSZ	20	58995185	59007247	-0.168668583	PASS
CTTN	11	70398404	70436584	0.182439925	suppress_segment_too_large
CTTNBP2	7	117710651	117874139	-0.388946609	PASS
CTTNBP2I	1	112396181	112463456	0.033763446	PASS
CTU1	19	51097606	51108370	-0.016761391	PASS

CTU2	16	88706463	88715386	-0.371357732	PASS
CTXN1	19	7924485	7926166	0.079632875	PASS
CTXN2	15	48178122	48203756	-0.396255771	PASS
CTXN3	5	127649044	127658630	-0.293443042	PASS
CTXND1	15	80195484	80252213	-0.697600509	PASS
CTXND2	1	150887136	150913292	0.103015788	PASS
CUBN	10	16823966	17129817	0.039811807	PASS
CUEDC1	17	57861243	57955323	0.088516311	PASS
CUEDC2	10	102423245	102432661	-0.367947924	PASS
CUL1	7	148697914	148801036	-0.388946609	PASS
CUL2	10	35008551	35090642	0.039811807	PASS
CUL3	2	224470150	224585397	0.025928102	PASS
CUL4A	13	113208193	113267108	-0.390786075	PASS
CUL4B	23	120524609	120575794	-0.012567603	PASS
CUL5	11	108008733	108107776	-0.356188624	PASS
CUL7	6	43037617	43053945	0.048820648	PASS
CUL9	6	43182175	43224587	0.048820648	PASS
CUTA	6	33416442	33418317	0.048820648	PASS
CUTC	10	99702558	99756134	-0.367947924	PASS
CUX1	7	101815904	102283958	-0.388946609	PASS
CUX2	12	111034024	111350554	0.202141228	PASS
CUZD1	10	122832149	122850793	0.063874692	PASS
CWC15	11	94962622	94973612	0.062969153	PASS
CWC22	2	179944876	180007113	0.039726562	PASS
CWC25	17	38800434	38825481	0.060555011	PASS
CWC27	5	64768930	65018763	-0.293443042	PASS
CWF19L1	10	100232298	100267680	-0.367947924	PASS
CWF19L2	11	107326345	107457844	-0.356188624	PASS
CWH43	4	48986247	49062081	-0.011382299	PASS
CX3CL1	16	57372458	57385048	-0.371357732	PASS
CX3CR1	3	39263494	39281735	-0.234617007	PASS
CXADR	21	17512382	17593579	0.12860881	suppress_segment_too_large
CXCL1	4	73869393	73871242	-0.011382299	PASS
CXCL10	4	76021117	76023497	-0.011382299	PASS
CXCL11	4	76033682	76041415	-0.011382299	PASS
CXCL12	10	44370165	44386493	-0.404852538	PASS
CXCL13	4	77511753	77611834	-0.011382299	PASS
CXCL14	5	135570679	135579279	-0.293443042	PASS
CXCL16	17	4733526	4739922	0.128406487	PASS
CXCL17	19	42428288	42443048	0.093487731	suppress_segment_too_large
CXCL2	4	74097035	74099293	-0.011382299	PASS
CXCL3	4	74036589	74038807	-0.011382299	PASS
CXCL5	4	73995642	73998779	-0.011382299	PASS
CXCL6	4	73836497	73849064	-0.011382299	PASS
CXCL8	4	73740506	73743716	-0.011382299	PASS
CXCL9	4	76001275	76007488	-0.011382299	PASS

CXCR1	2	218162845	218166995	0.025928102	PASS
CXCR2	2	218125289	218137253	0.025928102	PASS
CXCR3	23	71615916	71618517	-0.012567603	PASS
CXCR4	2	136114349	136118165	-0.475215623	PASS
CXCR5	11	118883766	118897799	-0.356188624	PASS
CXCR6	3	45940933	45948353	-0.234617007	PASS
CXXC1	18	50282343	50288304	-0.376397843	PASS
CXXC4	4	104468312	104494901	-0.011382299	PASS
CXXC5	5	139647299	139683882	-0.293443042	PASS
CXorf21	23	30558824	30577844	-0.012567603	PASS
CXorf36	23	45148374	45200901	-0.012567603	PASS
CXorf38	23	40626921	40647554	-0.012567603	PASS
CXorf40A	23	149540355	149550510	-0.012567603	PASS
CXorf40B	23	149929527	149938811	-0.012567603	PASS
CXorf56	23	119538149	119565408	-0.012567603	PASS
CXorf57	23	106611930	106679442	-0.012567603	PASS
CXorf58	23	23907801	23939509	-0.012567603	PASS
CXorf65	23	71103889	71106788	-0.012567603	PASS
CXorf66	23	139955725	139965520	-0.012567603	PASS
CXorf67	23	51406915	51408843	-0.012567603	PASS
CYB561	17	63432304	63446378	0.088516311	PASS
CYB561A3	11	61348745	61362299	0.182439925	suppress_segment_too_large
CYB561D1	1	109494052	109502932	0.033763446	PASS
CYB561D2	3	50350695	50358460	-0.234617007	PASS
CYB5A	18	74250847	74292016	-0.376397843	PASS
CYB5B	16	69424525	69466266	-0.371357732	PASS
CYB5D1	17	7857746	7862282	0.128406487	PASS
CYB5D2	17	4143168	4187310	0.128406487	PASS
CYB5R1	1	202961869	202967280	-0.256698369	PASS
CYB5R2	11	7665100	7677222	-0.405444717	PASS
CYB5R3	22	42617840	42649568	-0.575930959	PASS
CYB5R4	6	83859643	83967424	-0.368590549	PASS
CYB5RL	1	54169651	54200036	0.033763446	PASS
CYBA	16	88643283	88651152	-0.371357732	PASS
CYBB	23	37780011	37813461	-0.012567603	PASS
CYBC1	17	82442589	82450829	0.088516311	PASS
CYBRD1	2	171522247	171558133	0.039726562	PASS
CYC1	8	144095027	144097525	0.307788765	PASS
CYCS	7	25120091	25125361	-0.69513118	PASS
CYFIP1	15	22867052	22981063	-0.396255771	PASS
CYFIP2	5	157266079	157395595	-0.150979337	PASS
CYGB	17	76527356	76551175	0.088516311	PASS
CYHR1	8	144449582	144465677	0.307788765	PASS
CYLC1	23	83861126	83886699	-0.012567603	PASS
CYLC2	9	102995311	103018488	0.365190713	suppress_segment_too_large
CYLD	16	50742050	50801935	0.069936844	PASS

CYP11A1	15	74337759	74367740	-0.697600509	PASS
CYP11B1	8	142872356	142879846	0.113969953	PASS
CYP11B2	8	142910559	142917843	0.113969953	PASS
CYP17A1	10	102830531	102837533	-0.367947924	PASS
CYP19A1	15	51208057	51338610	-0.396255771	PASS
CYP1A1	15	74719542	74725610	-0.697600509	PASS
CYP1A2	15	74748844	74756202	-0.697600509	PASS
CYP1B1	2	38066973	38109902	0.040498426	PASS
CYP20A1	2	203238940	203305611	0.025928102	PASS
CYP21A2	6	32038265	32041670	0.048820648	PASS
CYP24A1	20	54153449	54173973	-0.168668583	PASS
CYP26A1	10	93073475	93077890	-0.39678585	PASS
CYP26B1	2	72129238	72148038	-0.372959126	PASS
CYP26C1	10	93060808	93069536	-0.39678585	PASS
CYP27A1	2	218781749	218815293	0.025928102	PASS
CYP27B1	12	57762334	57768986	-0.202191512	PASS
CYP27C1	2	127184120	127220078	-0.475215623	PASS
CYP2A13	19	41088472	41096195	0.093487731	suppress_segment_too_large
CYP2A6	19	40843538	40850447	0.093487731	suppress_segment_too_large
CYP2A7	19	40875439	40882752	0.093487731	suppress_segment_too_large
CYP2B6	19	40991250	41018398	0.093487731	suppress_segment_too_large
CYP2C18	10	94683621	94736190	-0.39678585	PASS
CYP2C19	10	94762681	94853205	-0.39678585	PASS
CYP2C8	10	95036772	95069497	-0.39678585	PASS
CYP2C9	10	94938658	94989391	-0.39678585	PASS
CYP2D6	22	42126499	42130906	-0.575930959	PASS
CYP2E1	10	133520406	133561220	0.063874692	PASS
CYP2F1	19	41114432	41128366	0.093487731	suppress_segment_too_large
CYP2J2	1	59893308	59926790	0.033763446	PASS
CYP2R1	11	14877440	14892252	-0.405444717	PASS
CYP2S1	19	41193049	41207539	0.093487731	suppress_segment_too_large
CYP2U1	4	107931369	107953457	-0.011382299	PASS
CYP2W1	7	983199	989640	-0.69513118	PASS
CYP39A1	6	46549580	46652830	0.048820648	PASS
CYP3A4	7	99756960	99784265	-0.262778904	PASS
CYP3A43	7	99828013	99866102	-0.262778904	PASS
CYP3A5	7	99648194	99680026	-0.262778904	PASS
CYP3A7	7	99684957	99735196	-0.262778904	PASS
CYP3A7-C	7	99685226	99735093	-0.262778904	PASS
CYP46A1	14	99684304	99727301	-0.192197564	PASS
CYP4A11	1	46929177	46941484	0.033763446	PASS
CYP4A22	1	47137435	47149741	0.033763446	PASS
CYP4B1	1	46757838	46819413	0.033763446	PASS
CYP4F11	19	15912367	15934867	0.093487731	suppress_segment_too_large
CYP4F12	19	15672757	15697174	0.093487731	suppress_segment_too_large
CYP4F2	19	15878023	15898120	0.093487731	suppress_segment_too_large

CYP4F22	19	15508493	15552317	0.093487731	suppress_segment_too_large
CYP4F3	19	15640897	15662825	0.093487731	suppress_segment_too_large
CYP4F8	19	15615218	15630638	0.093487731	suppress_segment_too_large
CYP4V2	4	186191520	186213456	-0.462744716	PASS
CYP4X1	1	47023568	47050751	0.033763446	PASS
CYP4Z1	1	47067488	47118319	0.033763446	PASS
CYP51A1	7	92112151	92134803	-0.262778904	PASS
CYP7A1	8	58490178	58500236	-0.201142258	PASS
CYP7B1	8	64587763	64798761	-0.201142258	PASS
CYP8B1	3	42856005	42876165	-0.234617007	PASS
CYR61	1	85580761	85583962	0.033763446	PASS
CYREN	7	135092363	135170795	-0.388946609	PASS
CYS1	2	10056780	10080944	0.040498426	PASS
CYSLTR1	23	78271464	78327691	-0.012567603	PASS
CYSLTR2	13	48653711	48711226	-0.390786075	PASS
CYSRT1	9	137224635	137226311	0.365190713	suppress_segment_too_large
CYSTM1	5	140174642	140282052	-0.293443042	PASS
CYTH1	17	78674048	78782297	0.088516311	PASS
CYTH2	19	48469032	48482314	0.14996833	PASS
CYTH3	7	6161776	6272644	-0.69513118	PASS
CYTH4	22	37282027	37315345	-0.575930959	PASS
CYTIP	2	157414619	157488961	-0.475215623	PASS
CYTL1	4	5014586	5019472	0.279089364	PASS
CYYR1	21	26466209	26573284	0.12860881	suppress_segment_too_large
DAAM1	14	59188646	59371405	0.060212819	PASS
DAAM2	6	39792298	39904877	0.048820648	PASS
DAB1	1	56994778	58546734	0.033763446	PASS
DAB2	5	39371675	39462300	0.055007813	PASS
DAB2IP	9	121567057	121785530	0.365190713	suppress_segment_too_large
DACH1	13	71437966	71867192	-0.390786075	PASS
DACH2	23	86148458	86832604	-0.012567603	PASS
DACT1	14	58633967	58648321	0.060212819	PASS
DACT2	6	168292830	168319754	-0.035448111	PASS
DACT3	19	46647612	46661138	0.14996833	PASS
DAD1	14	22564905	22589269	0.060212819	PASS
DAG1	3	49468703	49535618	-0.234617007	PASS
DAGLA	11	61680433	61747001	0.182439925	suppress_segment_too_large
DAGLB	7	6409126	6484190	-0.69513118	PASS
DALRD3	3	49015488	49022293	-0.234617007	PASS
DAND5	19	12965159	12974762	0.093487731	suppress_segment_too_large
DAO	12	108858932	108901043	0.202141228	PASS
DAOA	13	105465867	105491034	-0.390786075	PASS
DAP	5	10679230	10761272	0.055007813	PASS
DAP3	1	155687960	155739010	0.103015788	PASS
DAPK1	9	87497228	87708633	0.365190713	suppress_segment_too_large
DAPK2	15	63907036	64072033	-0.697600509	PASS

DAPK3	19	3958453	3971123	0.079632875	PASS
DAPL1	2	158795317	158862781	0.039726562	PASS
DAPP1	4	99816833	99870154	-0.011382299	PASS
DARS	2	135906677	135986100	-0.475215623	PASS
DARS2	1	173824568	173858808	-0.027073548	PASS
DAW1	2	227871054	227924344	0.025928102	PASS
DAXX	6	33318558	33323016	0.048820648	PASS
DAZAP1	19	1407569	1435687	0.079632875	PASS
DAZAP2	12	51238292	51271362	-0.202191512	PASS
DAZL	3	16586792	16670306	0.311018244	suppress_segment_too_large
DBF4	7	87876216	87909541	-0.262778904	PASS
DBF4B	17	44708608	44752264	0.088516311	PASS
DBH	9	133635348	133659344	0.365190713	suppress_segment_too_large
DBI	2	119366921	119372560	-0.475215623	PASS
DBN1	5	177456608	177474401	-0.150979337	PASS
DBNDD1	16	90004865	90020128	-0.371357732	PASS
DBNDD2	20	45406057	45410610	-0.168668583	PASS
DBNL	7	44044640	44069456	-0.69513118	PASS
DBP	19	48630030	48637438	0.14996833	PASS
DBR1	3	138161012	138174949	0.313454204	suppress_segment_too_large
DBT	1	100186919	100249834	0.033763446	PASS
DBX1	11	20156155	20160613	-0.405444717	PASS
DBX2	12	45014672	45051099	-0.202191512	PASS
DCAF1	3	51395867	51500002	-0.234617007	PASS
DCAF10	9	37800502	37867666	-0.310444659	PASS
DCAF11	14	24114195	24125242	0.060212819	PASS
DCAF12	9	34086387	34127399	-0.310444659	PASS
DCAF12L1	23	126549383	126552851	-0.012567603	PASS
DCAF12L2	23	126163499	126166097	-0.012567603	PASS
DCAF13	8	103414714	103443453	0.279445683	PASS
DCAF15	19	13952492	13961449	0.093487731	suppress_segment_too_large
DCAF16	4	17800655	17810758	0.279089364	PASS
DCAF17	2	171434217	171485052	0.039726562	PASS
DCAF4	14	72926332	72959703	0.060212819	PASS
DCAF4L1	4	41981696	41986467	-0.011382299	PASS
DCAF4L2	8	87870743	87874068	0.279445683	PASS
DCAF5	14	69050881	69153150	0.060212819	PASS
DCAF6	1	167935783	168075843	-0.027073548	PASS
DCAF7	17	63550461	63594266	0.088516311	PASS
DCAF8	1	160215715	160262531	-0.027073548	PASS
DCAF8L1	23	27977993	27981449	-0.012567603	PASS
DCAF8L2	23	27590382	27748821	-0.012567603	PASS
DCAKD	17	45023340	45061109	0.088516311	PASS
DCANP1	5	135444214	135447348	-0.293443042	PASS
DCBLD1	6	117453817	117569858	-0.368590549	PASS
DCBLD2	3	98795941	98901689	0.313454204	suppress_segment_too_large

DCC	18	52340172	53535903	-0.376397843	PASS
DCD	12	54644591	54648493	-0.202191512	PASS
DCDC1	11	30830369	31369810	-0.405444717	PASS
DCDC2	6	24171756	24358052	0.048820648	PASS
DCDC2B	1	32209094	32216196	0.033763446	PASS
DCDC2C	2	3703592	3847411	0.040498426	PASS
DCHS1	11	6621323	6655854	-0.405444717	PASS
DCHS2	4	154231742	154495570	-0.011382299	PASS
DCK	4	70992538	71030914	-0.011382299	PASS
DCLK1	13	35768652	36131306	-0.390786075	PASS
DCLK2	4	150078274	150257457	-0.011382299	PASS
DCLK3	3	36712422	36764349	-0.234617007	PASS
DCLRE1A	10	113834725	113854383	0.063874692	PASS
DCLRE1B	1	113905141	113914086	0.033763446	PASS
DCLRE1C	10	14897359	14954432	0.039811807	PASS
DCN	12	91140484	91183123	0.202141228	PASS
DCP1A	3	53283428	53347610	-0.234617007	PASS
DCP1B	12	1946054	2004535	-0.086128028	PASS
DCP2	5	112976702	113020970	-0.293443042	PASS
DCPS	11	126303752	126345754	-0.419612865	PASS
DCST1	1	155033824	155050930	0.103015788	PASS
DCST2	1	155018520	155033781	0.103015788	PASS
DCSTAMF	8	104339087	104356689	0.279445683	PASS
DCT	13	94436808	94479682	-0.390786075	PASS
DCTD	4	182890060	182917936	-0.462744716	PASS
DCTN1	2	74361154	74392087	-0.372959126	PASS
DCTN2	12	57530102	57547331	-0.202191512	PASS
DCTN3	9	34613545	34620523	-0.310444659	PASS
DCTN4	5	150708440	150759109	-0.293443042	PASS
DCTN5	16	23641392	23677455	0.069936844	PASS
DCTN6	8	30156297	30183640	-0.345962679	PASS
DCTPP1	16	30423619	30430075	0.069936844	PASS
DCUN1D1	3	182938074	182985953	0.318278996	suppress_segment_too_large
DCUN1D2	13	113455819	113490952	-0.390786075	PASS
DCUN1D3	16	20854925	20900384	0.069936844	PASS
DCUN1D4	4	51843000	51916837	-0.011382299	PASS
DCUN1D5	11	103062076	103092215	0.062969153	PASS
DCX	23	111293779	111412429	-0.012567603	PASS
DCXR	17	82035136	82037732	0.088516311	PASS
DDA1	19	17309518	17323301	0.093487731	suppress_segment_too_large
DDAH1	1	85318481	85578363	0.033763446	PASS
DDAH2	6	31727038	31730617	0.048820648	PASS
DDB1	11	61299451	61342596	0.182439925	suppress_segment_too_large
DDB2	11	47214465	47239240	0.117376172	PASS
DDC	7	50458436	50565457	-0.750061359	PASS
DDHD1	14	53036745	53153282	0.060212819	PASS

DDHD2	8	38225218	38275558	-0.201142258	PASS
DDI1	11	104036580	104039188	0.062969153	PASS
DDI2	1	15617500	15669044	0.033763446	PASS
DDIAS	11	82899975	82958277	0.062969153	PASS
DDIT3	12	57516588	57521737	-0.202191512	PASS
DDIT4	10	72273920	72276036	0.072405807	PASS
DDIT4L	4	100185870	100190782	-0.011382299	PASS
DDN	12	48995149	48999309	-0.202191512	PASS
DDO	6	110391771	110415562	-0.368590549	PASS
DDOST	1	20651767	20661544	0.033763446	PASS
DDR1	6	30876421	30900156	0.048820648	PASS
DDR2	1	162631373	162787400	-0.027073548	PASS
DDRGK1	20	3190350	3204685	-0.168668583	PASS
DDT	22	23971365	23979828	-0.575930959	PASS
DDTL	22	23966901	23972532	-0.575930959	PASS
DDX1	2	15591178	15631111	0.040498426	PASS
DDX10	11	108665025	108940930	-0.356188624	PASS
DDX11	12	31073845	31104791	0.362961408	suppress_segment_too_large
DDX17	22	38483440	38507660	-0.575930959	PASS
DDX18	2	117814650	117832379	-0.475215623	PASS
DDX19A	16	70346829	70373383	-0.371357732	PASS
DDX19B	16	70289663	70335283	-0.371357732	PASS
DDX20	1	111755245	111768016	0.033763446	PASS
DDX21	10	68956128	68985073	0.072405807	PASS
DDX23	12	48829764	48852842	-0.202191512	PASS
DDX24	14	94048291	94081245	-0.192197564	PASS
DDX25	11	125903348	125943702	-0.419612865	PASS
DDX27	20	49219295	49244077	-0.168668583	PASS
DDX28	16	68021274	68023442	-0.371357732	PASS
DDX31	9	132592997	132670401	0.365190713	suppress_segment_too_large
DDX39A	19	14408819	14419383	0.093487731	suppress_segment_too_large
DDX39B	6	31530219	31542448	0.048820648	PASS
DDX3X	23	41333284	41364472	-0.012567603	PASS
DDX4	5	55738017	55817157	-0.293443042	PASS
DDX41	5	177511577	177517469	-0.150979337	PASS
DDX42	17	63773603	63819317	0.088516311	PASS
DDX43	6	73394748	73417569	-0.368590549	PASS
DDX46	5	134758771	134855133	-0.293443042	PASS
DDX47	12	12813316	12829981	0.362961408	suppress_segment_too_large
DDX49	19	18919675	18928633	0.093487731	suppress_segment_too_large
DDX5	17	64499616	64508199	0.088516311	PASS
DDX50	10	68901278	68946847	0.072405807	PASS
DDX51	12	132136594	132144335	0.270848837	PASS
DDX52	17	37609739	37643464	0.060555011	PASS
DDX53	23	22999961	23003589	-0.012567603	PASS
DDX54	12	113157174	113185479	0.202141228	PASS

DDX55	12	123602077	123620941	0.202141228	PASS
DDX56	7	44565417	44575051	-0.69513118	PASS
DDX58	9	32455705	32526324	-0.310444659	PASS
DDX59	1	200623896	200669969	-0.256698369	PASS
DDX6	11	118747766	118791149	-0.356188624	PASS
DDX60	4	168216293	168318807	-0.011382299	PASS
DDX60L	4	168356735	168537786	-0.011382299	PASS
DEAF1	11	644233	706715	-0.333835828	PASS
1-Dec	9	114850968	115402644	0.365190713	suppress_segment_too_large
DECR1	8	90001405	90052092	0.279445683	PASS
DECR2	16	401826	412487	0.069936844	PASS
DEDD	1	161120974	161132688	-0.027073548	PASS
DEDD2	19	42198598	42220140	0.093487731	suppress_segment_too_large
DEF6	6	35297852	35321771	0.048820648	PASS
DEF8	16	89947925	89968060	-0.371357732	PASS
DEFA3	8	7015869	7018301	-0.345962679	PASS
DEFA4	8	6935822	6938338	-0.345962679	PASS
DEFA5	8	7055304	7056734	-0.345962679	PASS
DEFA6	8	6924693	6926076	-0.345962679	PASS
DEFB1	8	6870575	6878022	-0.345962679	PASS
DEFB104A	8	7836471	7841242	-0.345962679	PASS
DEFB105A	8	7821966	7823889	-0.345962679	PASS
DEFB106A	8	7825172	7829053	-0.345962679	PASS
DEFB106B	8	7482504	7486400	-0.345962679	PASS
DEFB107A	8	7811720	7815716	-0.345962679	PASS
DEFB108B	11	71833200	71837710	0.062969153	PASS
DEFB110	6	50009138	50021981	0.048820648	PASS
DEFB112	6	50043575	50048651	0.048820648	PASS
DEFB113	6	49968677	49969625	0.048820648	PASS
DEFB114	6	49960249	49964105	0.048820648	PASS
DEFB115	20	31257664	31259632	-0.168668583	PASS
DEFB116	20	31303212	31308585	-0.168668583	PASS
DEFB118	20	31368618	31373923	-0.168668583	PASS
DEFB119	20	31377164	31390603	-0.168668583	PASS
DEFB121	20	31404845	31412838	-0.168668583	PASS
DEFB123	20	31440519	31450257	-0.168668583	PASS
DEFB124	20	31465506	31476757	-0.168668583	PASS
DEFB125	20	87250	97094	-0.168668583	PASS
DEFB126	20	142369	145751	-0.168668583	PASS
DEFB127	20	157470	159163	-0.168668583	PASS
DEFB128	20	187853	189681	-0.168668583	PASS
DEFB129	20	227258	229886	-0.168668583	PASS
DEFB131A	4	9444534	9450514	0.279089364	PASS
DEFB131B	11	71878453	71884561	0.062969153	PASS
DEFB132	20	257736	261096	-0.168668583	PASS
DEFB133	6	49946021	49950265	0.048820648	PASS

DEFB134	8	11993174	11996312	-0.345962679	PASS
DEFB135	8	11982321	11984590	-0.345962679	PASS
DEFB136	8	11973937	11974599	-0.345962679	PASS
DEFB4A	8	7894629	7896711	-0.345962679	PASS
DEFB4B	8	7414860	7416863	-0.345962679	PASS
DEGS1	1	224175756	224193441	-0.256698369	PASS
DEGS2	14	100143957	100160163	-0.192197564	PASS
DEK	6	18223868	18264823	0.048820648	PASS
DELE1	5	141923808	141942047	-0.293443042	PASS
DENND1A	9	123379654	123930152	0.365190713	suppress_segment_too_large
DENND1B	1	197504748	197775696	-0.027073548	PASS
DENND1C	19	6467207	6482557	0.079632875	PASS
DENND2A	7	140518420	140673993	-0.388946609	PASS
DENND2C	1	114582848	114670422	0.033763446	PASS
DENND2D	1	111187174	111204535	0.033763446	PASS
DENND3	8	141117278	141195808	0.113969953	PASS
DENND4A	15	65658046	65792293	-0.697600509	PASS
DENND4B	1	153929501	153946696	0.103015788	PASS
DENND4C	9	19230435	19373545	-0.310444659	PASS
DENND5A	11	9138825	9265390	-0.405444717	PASS
DENND5B	12	31382223	31591097	0.362961408	suppress_segment_too_large
DENND6A	3	57625457	57693089	-0.234617007	PASS
DENND6B	22	50309030	50327060	-0.808211634	PASS
DENR	12	122752774	122771064	0.202141228	PASS
DEPDC1	1	68474152	68497221	0.033763446	PASS
DEPDC1B	5	60596912	60700190	-0.293443042	PASS
DEPDC4	12	100203669	100267079	0.202141228	PASS
DEPDC5	22	31753867	31908033	-0.575930959	PASS
DEPDC7	11	33015864	33033582	-0.405444717	PASS
DEPP1	10	44970981	44978810	-0.404852538	PASS
DEPTOR	8	119873717	120050913	0.279445683	PASS
DERA	12	15911172	16037282	0.362961408	suppress_segment_too_large
DERL1	8	123013164	123042423	0.279445683	PASS
DERL2	17	5471251	5486811	0.128406487	PASS
DERL3	22	23834503	23839128	-0.575930959	PASS
DES	2	219418377	219426739	0.025928102	PASS
DESI1	22	41598028	41621096	-0.575930959	PASS
DESI2	1	244652935	244709033	-0.368111568	PASS
DET1	15	88494440	88546675	-0.697600509	PASS
DEUP1	11	93329971	93438487	0.062969153	PASS
DEXI	16	10928891	10942460	0.069936844	PASS
DFFA	1	10456522	10472526	0.373964873	suppress_segment_too_large
DFFB	1	3857267	3885429	0.373964873	suppress_segment_too_large
DGAT1	8	144314584	144326910	0.307788765	PASS
DGAT2	11	75759512	75801535	0.062969153	PASS
DGAT2L6	23	70177483	70205545	-0.012567603	PASS

DGCR2	22	19036282	19122454	-0.575930959	PASS
DGCR6	22	18906028	18914238	-0.575930959	PASS
DGCR6L	22	20314276	20320080	-0.575930959	PASS
DGCR8	22	20080232	20111877	-0.575930959	PASS
DGKA	12	55927319	55954027	-0.202191512	PASS
DGKB	7	14145049	14974777	-0.69513118	PASS
DGKD	2	233354507	233472104	0.025928102	PASS
DGKE	17	56834099	56869567	0.088516311	PASS
DGKG	3	186105668	186362237	0.318278996	suppress_segment_too_large
DGKH	13	42040036	42256578	-0.390786075	PASS
DGKI	7	137381037	137847092	-0.388946609	PASS
DGKK	23	50365409	50470738	-0.012567603	PASS
DGKQ	4	958887	986895	0.279089364	PASS
DGKZ	11	46332905	46380554	0.117376172	PASS
DGLUCY	14	91060333	91225632	-0.192197564	PASS
DGUOK	2	73926826	73958961	-0.372959126	PASS
DHCR24	1	54849627	54887271	0.033763446	PASS
DHCR7	11	71428193	71452868	0.182439925	suppress_segment_too_large
DHDDS	1	26432282	26471294	0.033763446	PASS
DHDH	19	48933682	48944969	0.14996833	PASS
DHFR	5	80626228	80654983	-0.293443042	PASS
DHFR2	3	94047836	94063389	0.313454204	suppress_segment_too_large
DHH	12	49086656	49094819	-0.202191512	PASS
DHODH	16	72008588	72027664	-0.371357732	PASS
DHPS	19	12675717	12681902	0.093487731	suppress_segment_too_large
DHRS1	14	24290598	24299833	0.060212819	PASS
DHRS11	17	36591798	36600806	0.060555011	PASS
DHRS12	13	51767993	51804157	-0.390786075	PASS
DHRS13	17	28897781	28903071	0.060555011	PASS
DHRS2	14	23630115	23645639	0.060212819	PASS
DHRS3	1	12567910	12617731	0.003932739	PASS
DHRS4	14	23953586	23969279	0.060212819	PASS
DHRS4L2	14	23969874	24006408	0.060212819	PASS
DHRS7	14	60144120	60169856	0.060212819	PASS
DHRS7B	17	21123364	21193265	0.024610076	PASS
DHRS7C	17	9771434	9791297	-0.139031004	PASS
DHRS9	2	169064789	169096167	0.039726562	PASS
DHRSX	23	2219516	2502805	-0.012567603	PASS
DHTKD1	10	12068972	12123225	0.039811807	PASS
DHX15	4	24517441	24584550	0.279089364	PASS
DHX16	6	30653119	30673037	0.048820648	PASS
DHX29	5	55256245	55307722	-0.293443042	PASS
DHX30	3	47802909	47850195	-0.234617007	PASS
DHX32	10	125836337	125896436	0.063874692	PASS
DHX33	17	5440912	5469060	0.128406487	PASS
DHX34	19	47349281	47382704	0.14996833	PASS

DHX35	20	38962299	39039723	-0.168668583	PASS
DHX36	3	154272546	154324497	0.318278996	suppress_segment_too_large
DHX37	12	124946825	124989122	0.202141228	PASS
DHX38	16	72093562	72112912	-0.371357732	PASS
DHX40	17	59565525	59608345	0.088516311	PASS
DHX57	2	38797729	38875934	0.040498426	PASS
DHX58	17	42101404	42112733	0.060555011	PASS
DHX8	17	43483865	43610338	0.088516311	PASS
DHX9	1	182839369	182887751	-0.027073548	PASS
DIABLO	12	122207662	122227534	0.202141228	PASS
DIAPH1	5	141515016	141619055	-0.293443042	PASS
DIAPH2	23	96684663	97604997	-0.012567603	PASS
DIAPH3	13	59665583	60163987	-0.390786075	PASS
DICER1	14	95086228	95158010	-0.192197564	PASS
DIDO1	20	62877738	62937952	-0.168668583	PASS
DIMT1	5	62387254	62403939	-0.293443042	PASS
DIO1	1	53891239	53911086	0.033763446	PASS
DIO2	14	80197527	80387757	-0.192197564	PASS
DIO3	14	101561351	101563452	-0.192197564	PASS
DIP2A	21	46458899	46569852	-0.064425456	suppress_segment_too_large
DIP2B	12	50504985	50748667	-0.202191512	PASS
DIP2C	10	274190	689668	0.039811807	PASS
DIRAS1	19	2714567	2721418	0.079632875	PASS
DIRAS2	9	90609832	90643105	0.365190713	suppress_segment_too_large
DIRAS3	1	68045896	68051631	0.033763446	PASS
DIRC1	2	188733738	188790104	0.025928102	PASS
DIRC2	3	122794795	122881139	0.313454204	suppress_segment_too_large
DIS3	13	72752169	72782096	-0.390786075	PASS
DIS3L	15	66293217	66333898	-0.697600509	PASS
DIS3L2	2	231961245	232344350	0.025928102	PASS
DISC1	1	231626815	232041272	-0.256698369	PASS
DISP1	1	222872271	223005995	-0.256698369	PASS
DISP2	15	40358235	40378639	-0.396255771	PASS
DISP3	1	11479166	11537584	0.373964873	suppress_segment_too_large
DIXDC1	11	111927144	112022584	-0.356188624	PASS
DKC1	23	154762742	154777689	-0.012567603	PASS
DKK1	10	52314296	52318042	-0.404852538	PASS
DKK2	4	106921802	107283806	-0.011382299	PASS
DKK3	11	11963106	12009769	-0.405444717	PASS
DKK4	8	42374068	42377232	-0.201142258	PASS
DKKL1	19	49361783	49375116	0.14996833	PASS
DLAT	11	112024814	112064390	-0.356188624	PASS
DLC1	8	13083361	13604610	-0.345962679	PASS
DLD	7	107890970	107931730	-0.388946609	PASS
DLEC1	3	38039205	38124025	-0.234617007	PASS
DLEU7	13	50711008	50843939	-0.390786075	PASS

DLG1	3	197042560	197299300	0.326834516	PASS
DLG2	11	83455012	85627922	0.062969153	PASS
DLG3	23	70444861	70505490	-0.012567603	PASS
DLG4	17	7187169	7219841	0.128406487	PASS
DLG5	10	77790791	77926526	0.072405807	PASS
DLGAP1	18	3496032	4455335	-0.052305056	suppress_segment_too_large
DLGAP2	8	737596	1708474	-0.313874214	PASS
DLGAP3	1	34865436	34929585	0.033763446	PASS
DLGAP4	20	36306336	36528637	-0.168668583	PASS
DLGAP5	14	55148112	55191678	0.060212819	PASS
DLK1	14	100725705	100738224	-0.192197564	PASS
DLK2	6	43450352	43456632	0.048820648	PASS
DLL1	6	170282206	170306565	-0.035448111	PASS
DLL3	19	39498895	39508481	0.093487731	suppress_segment_too_large
DLL4	15	40929333	40939073	-0.396255771	PASS
DLST	14	74881891	74903745	-0.192197564	PASS
DLX1	2	172084740	172089677	0.039726562	PASS
DLX2	2	172099439	172102900	0.039726562	PASS
DLX3	17	49990005	49995224	0.088516311	PASS
DLX4	17	49968970	49974959	0.088516311	PASS
DLX5	7	97020392	97024950	-0.262778904	PASS
DLX6	7	97005548	97011039	-0.262778904	PASS
DMAC1	9	7796490	7888380	-0.310444659	PASS
DMAC2	19	41431318	41440717	0.093487731	suppress_segment_too_large
DMAP1	1	44213455	44220681	0.033763446	PASS
DMBT1	10	122560665	122643736	0.063874692	PASS
DMBX1	1	46506996	46514226	0.033763446	PASS
DMC1	22	38518949	38570286	-0.575930959	PASS
DMD	23	31097677	33339441	-0.012567603	PASS
DMGDH	5	78997606	79236038	-0.293443042	PASS
DMKN	19	35497220	35513658	0.093487731	suppress_segment_too_large
DMP1	4	87650307	87664361	-0.011382299	PASS
DMPK	19	45769717	45782552	0.14996833	PASS
DMRT1	9	841690	969090	-0.310444659	PASS
DMRT2	9	1049858	1057552	-0.310444659	PASS
DMRT3	9	976964	991731	-0.310444659	PASS
DMRTA1	9	22446841	22455740	-0.310444659	PASS
DMRTA2	1	50417550	50423500	0.033763446	PASS
DMRTB1	1	53459399	53467488	0.033763446	PASS
DMRTC1	23	72872025	72943814	-0.012567603	PASS
DMRTC1E	23	72777009	72848802	-0.012567603	PASS
DMRTC2	19	41844743	41852333	0.093487731	suppress_segment_too_large
DMTF1	7	87152361	87196337	-0.262778904	PASS
DMTN	8	22048995	22082527	-0.345962679	PASS
DMWD	19	45782947	45792802	0.14996833	PASS
DMXL1	5	119037772	119249138	-0.293443042	PASS

DMXL2	15	51447711	51622833	-0.396255771	PASS
DNA2	10	68414064	68472121	0.072405807	PASS
DNAAF1	16	84145287	84178767	-0.371357732	PASS
DNAAF2	14	49625174	49635230	0.060212819	PASS
DNAAF3	19	55158661	55166722	0.121336758	PASS
DNAAF4	15	55410525	55508234	-0.697600509	PASS
DNAAF5	7	726701	786475	-0.69513118	PASS
DNAH1	3	52316319	52400491	-0.234617007	PASS
DNAH10	12	123762188	123936206	0.202141228	PASS
DNAH11	7	21543215	21901839	-0.69513118	PASS
DNAH12	3	57293699	57544344	-0.234617007	PASS
DNAH14	1	224896262	225399292	-0.256698369	PASS
DNAH17	17	78423697	78577394	0.088516311	PASS
DNAH2	17	7717354	7833744	0.128406487	PASS
DNAH3	16	20933111	21159441	0.069936844	PASS
DNAH5	5	13690331	13944543	0.055007813	PASS
DNAH6	2	84516455	84819589	0.066915641	PASS
DNAH7	2	195737703	196068812	0.025928102	PASS
DNAH8	6	38715341	39030529	0.048820648	PASS
DNAH9	17	11598431	11969748	-0.139031004	PASS
DNAI1	9	34457414	34520989	-0.310444659	PASS
DNAI2	17	74274247	74314884	0.088516311	PASS
DNAJA1	9	33025211	33039907	-0.310444659	PASS
DNAJA2	16	46955362	46973788	0.069936844	PASS
DNAJA3	16	4425805	4456775	0.069936844	PASS
DNAJA4	15	78264086	78282196	-0.697600509	PASS
DNAJB1	19	14514770	14529770	0.093487731	suppress_segment_too_large
DNAJB11	3	186567403	186585800	0.318278996	suppress_segment_too_large
DNAJB12	10	72332830	72355230	0.072405807	PASS
DNAJB13	11	73950319	73970366	0.062969153	PASS
DNAJB14	4	99896248	99946726	-0.011382299	PASS
DNAJB2	2	219279267	219286900	0.025928102	PASS
DNAJB4	1	77979175	78017964	0.033763446	PASS
DNAJB5	9	34989641	34998900	-0.310444659	PASS
DNAJB6	7	157335381	157417439	-0.411415677	PASS
DNAJB7	22	40859549	40862126	-0.575930959	PASS
DNAJB8	3	128462439	128467248	0.313454204	suppress_segment_too_large
DNAJB9	7	108569568	108574850	-0.388946609	PASS
DNAJC1	10	21756537	22003769	0.039811807	PASS
DNAJC10	2	182716041	182794464	-0.169541924	PASS
DNAJC11	1	6634168	6701924	0.373964873	suppress_segment_too_large
DNAJC12	10	67796665	67838166	0.072405807	PASS
DNAJC13	3	132417526	132539032	0.313454204	suppress_segment_too_large
DNAJC14	12	55820960	55830824	-0.202191512	PASS
DNAJC15	13	43023203	43114224	-0.390786075	PASS
DNAJC16	1	15526813	15592379	0.033763446	PASS

DNAJC17	15	40765155	40807478	-0.396255771	PASS
DNAJC18	5	139408588	139444491	-0.293443042	PASS
DNAJC19	3	180983709	180989774	0.318278996	suppress_segment_too_large
DNAJC2	7	103312474	103344873	-0.388946609	PASS
DNAJC21	5	34929559	34958964	0.055007813	PASS
DNAJC22	12	49346917	49357546	-0.202191512	PASS
DNAJC24	11	31369840	31431849	-0.405444717	PASS
DNAJC25	9	111631352	111654351	0.365190713	suppress_segment_too_large
DNAJC25-	9	111631386	111670229	0.365190713	suppress_segment_too_large
DNAJC27	2	24943636	24972094	0.040498426	PASS
DNAJC28	21	33485530	33491720	0.12860881	suppress_segment_too_large
DNAJC3	13	95677139	95794989	-0.390786075	PASS
DNAJC30	7	73680969	73683453	-0.262778904	PASS
DNAJC4	11	64230278	64234286	0.182439925	suppress_segment_too_large
DNAJC5	20	63895182	63936031	-0.168668583	PASS
DNAJC5B	8	66021560	66100526	-0.201142258	PASS
DNAJC5G	2	27275421	27281499	0.040498426	PASS
DNAJC6	1	65248219	65415869	0.033763446	PASS
DNAJC7	17	41976433	42021376	0.060555011	PASS
DNAJC8	1	28199456	28233025	0.033763446	PASS
DNAJC9	10	73183362	73248862	0.072405807	PASS
DNAL1	14	73644875	73703732	0.060212819	PASS
DNAL4	22	38778508	38794198	-0.575930959	PASS
DNALI1	1	37556919	37566857	0.033763446	PASS
DNASE1	16	3611728	3680143	0.069936844	PASS
DNASE1L	23	154401238	154412112	-0.012567603	PASS
DNASE1L	16	2235816	2238711	0.069936844	PASS
DNASE1L	3	58192257	58214697	-0.234617007	PASS
DNASE2	19	12875211	12881468	0.093487731	suppress_segment_too_large
DNASE2B	1	84398532	84415018	0.033763446	PASS
DND1	5	140670794	140673586	-0.293443042	PASS
DNER	2	229357629	229714558	0.025928102	PASS
DNHD1	11	6497260	6593758	-0.405444717	PASS
DNLZ	9	136359480	136363789	0.365190713	suppress_segment_too_large
DNM1	9	128191655	128255248	0.365190713	suppress_segment_too_large
DNM1L	12	32679200	32745650	0.362961408	suppress_segment_too_large
DNM2	19	10718079	10833488	0.093487731	suppress_segment_too_large
DNM3	1	171841498	172418466	-0.027073548	PASS
DNMBP	10	99875577	100009919	-0.367947924	PASS
DNMT1	19	10133345	10231286	0.093487731	suppress_segment_too_large
DNMT3A	2	25227855	25342590	0.040498426	PASS
DNMT3B	20	32762385	32809356	-0.168668583	PASS
DNMT3L	21	44246339	44262216	-0.064425456	suppress_segment_too_large
DNPEP	2	219373527	219400022	0.025928102	PASS
DNPH1	6	43225629	43229484	0.048820648	PASS
DNTT	10	96304396	96338564	-0.367947924	PASS

DNTTIP1	20	45791937	45811427	-0.168668583	PASS
DNTTIP2	1	93866283	93879918	0.033763446	PASS
DOC2A	16	30005509	30023270	0.069936844	PASS
DOC2B	17	142789	181636	0.128406487	PASS
DOCK1	10	126905409	127452517	0.063874692	PASS
DOCK10	2	224765090	225042445	0.025928102	PASS
DOCK11	23	118495898	118686163	-0.012567603	PASS
DOCK2	5	169637247	170083382	-0.150979337	PASS
DOCK3	3	50675241	51384198	-0.234617007	PASS
DOCK4	7	111726110	112206411	-0.388946609	PASS
DOCK5	8	25184723	25418082	-0.345962679	PASS
DOCK6	19	11199295	11262481	0.093487731	suppress_segment_too_large
DOCK7	1	62454298	62688368	0.033763446	PASS
DOCK8	9	214854	465259	-0.310444659	PASS
DOCK9	13	98793429	99086625	-0.390786075	PASS
DOHH	19	3490822	3500940	0.079632875	PASS
DOK1	2	74549026	74557554	-0.372959126	PASS
DOK2	8	21908873	21913860	-0.345962679	PASS
DOK3	5	177501907	177511274	-0.150979337	PASS
DOK4	16	57471922	57487327	-0.371357732	PASS
DOK5	20	54475597	54651171	-0.168668583	PASS
DOK6	18	69401055	69849087	-0.376397843	PASS
DOK7	4	3463311	3501473	0.279089364	PASS
DOLK	9	128945530	128947619	0.365190713	suppress_segment_too_large
DOLPP1	9	129081100	129090438	0.365190713	suppress_segment_too_large
DONSON	21	33559542	33588708	0.12860881	suppress_segment_too_large
DOP1A	6	83067666	83171350	-0.368590549	PASS
DOP1B	21	36156782	36294274	-0.064425456	suppress_segment_too_large
DOT1L	19	2164149	2232578	0.079632875	PASS
DPAGT1	11	119096503	119108331	-0.356188624	PASS
DPCD	10	101570560	101609668	-0.367947924	PASS
DPEP1	16	89613308	89638456	-0.371357732	PASS
DPEP2	16	67987394	68000586	-0.371357732	PASS
DPEP2NB	16	68013436	68015911	-0.371357732	PASS
DPEP3	16	67975663	67980829	-0.371357732	PASS
DPF1	19	38211006	38229714	0.093487731	suppress_segment_too_large
DPF2	11	65333754	65353249	0.182439925	suppress_segment_too_large
DPF3	14	72619296	72894116	0.060212819	PASS
DPH1	17	2030110	2043430	0.128406487	PASS
DPH2	1	43970000	43973369	0.033763446	PASS
DPH3	3	16257978	16264972	0.311018244	suppress_segment_too_large
DPH5	1	100989623	101026088	0.033763446	PASS
DPH6	15	35217345	35546193	-0.396255771	PASS
DPH7	9	137554904	137578935	0.365190713	suppress_segment_too_large
DPM1	20	50934867	50958555	-0.168668583	PASS
DPM2	9	127935099	127938484	0.365190713	suppress_segment_too_large

DPM3	1	155139891	155140595	0.103015788	PASS
DPP10	2	114442299	115845752	-0.010901494	PASS
DPP3	11	66480013	66509657	0.182439925	suppress_segment_too_large
DPP4	2	161992241	162074542	0.039726562	PASS
DPP6	7	153887097	154894285	-0.411415677	PASS
DPP7	9	137110542	137115177	0.365190713	suppress_segment_too_large
DPP8	15	65442463	65517704	-0.697600509	PASS
DPP9	19	4675224	4724673	0.079632875	PASS
DPPA2	3	109293788	109316517	0.313454204	suppress_segment_too_large
DPPA3	12	7711454	7717559	-0.086128028	PASS
DPPA4	3	109326141	109337572	0.313454204	suppress_segment_too_large
DPPA5	6	73353062	73354295	-0.368590549	PASS
DPRX	19	53632056	53637009	0.206912349	PASS
DPT	1	168695459	168729264	-0.027073548	PASS
DPY19L1	7	34928876	35038271	-0.69513118	PASS
DPY19L2	12	63558913	63668939	-0.202191512	PASS
DPY19L3	19	32405543	32485895	0.093487731	suppress_segment_too_large
DPY19L4	8	94719703	94793836	0.279445683	PASS
DPY30	2	31867809	32039812	0.040498426	PASS
DPYD	1	97077743	97995000	0.033763446	PASS
DPYS	8	104330324	104467053	0.279445683	PASS
DPYSL2	8	26514022	26658178	-0.345962679	PASS
DPYSL3	5	147390811	147510056	-0.293443042	PASS
DPYSL4	10	132186900	132205776	0.063874692	PASS
DPYSL5	2	26847747	26950351	0.040498426	PASS
DQX1	2	74518131	74526336	-0.372959126	PASS
DR1	1	93345888	93369498	0.033763446	PASS
DRAM1	12	101877351	102012130	0.202141228	PASS
DRAM2	1	111117333	111140216	0.033763446	PASS
DRAP1	11	65919257	65921561	0.182439925	suppress_segment_too_large
DRAXIN	1	11691729	11725857	0.373964873	suppress_segment_too_large
DRC1	2	26401916	26456711	0.040498426	PASS
DRC3	17	17972813	18016889	0.024610076	PASS
DRC7	16	57694793	57731805	-0.371357732	PASS
DRD1	5	175440039	175444208	-0.150979337	PASS
DRD2	11	113409615	113475691	-0.356188624	PASS
DRD3	3	114128652	114199407	0.313454204	suppress_segment_too_large
DRD4	11	637293	640706	-0.333835828	PASS
DRD5	4	9781680	9784009	0.279089364	PASS
DRG1	22	31399523	31530634	-0.575930959	PASS
DRG2	17	18087886	18107971	0.024610076	PASS
DRGX	10	49364181	49396016	-0.404852538	PASS
DRICH1	22	23608452	23632321	-0.575930959	PASS
DROSHA	5	31400497	31532196	0.055007813	PASS
DRP2	23	101219769	101264497	-0.012567603	PASS
DSC1	18	31129236	31162856	-0.376397843	PASS

DSC2	18	31058840	31102522	-0.376397843	PASS
DSC3	18	30990008	31042815	-0.376397843	PASS
DSCAM	21	40010999	40847139	-0.064425456	suppress_segment_too_large
DSCAML1	11	117427773	117817525	-0.356188624	PASS
DSCC1	8	119833976	119856010	0.279445683	PASS
DSE	6	116254173	116444860	-0.368590549	PASS
DSEL	18	67506582	67516980	-0.376397843	PASS
DSG1	18	31318089	31357029	-0.376397843	PASS
DSG2	18	31498043	31549008	-0.376397843	PASS
DSG3	18	31447795	31478702	-0.376397843	PASS
DSG4	18	31376777	31414912	-0.376397843	PASS
DSN1	20	36751791	36773818	-0.168668583	PASS
DSP	6	7541575	7586717	0.048820648	PASS
DSPP	4	87608553	87616910	-0.011382299	PASS
DST	6	56457987	56954628	0.048820648	PASS
DSTN	20	17569863	17609919	-0.168668583	PASS
DSTYK	1	205142505	205211566	-0.256698369	PASS
DTD1	20	18587893	18766644	-0.168668583	PASS
DTD2	14	31446036	31457510	0.060212819	PASS
DTHD1	4	36281622	36345756	-0.011382299	PASS
DTL	1	212035553	212107400	-0.256698369	PASS
DTNA	18	34493290	34891844	-0.376397843	PASS
DTNB	2	25377198	25673647	0.040498426	PASS
DTNBP1	6	15522801	15663058	0.048820648	PASS
DTWD1	15	49620980	49656232	-0.396255771	PASS
DTWD2	5	118837322	118988545	-0.293443042	PASS
DTX1	12	113056709	113098028	0.202141228	PASS
DTX2	7	76461676	76505995	-0.262778904	PASS
DTX3	12	57604622	57609804	-0.202191512	PASS
DTX3L	3	122564238	122575203	0.313454204	suppress_segment_too_large
DTX4	11	59171430	59208587	-0.129266491	PASS
DUOX1	15	45129933	45165576	-0.396255771	PASS
DUOX2	15	45092650	45114344	-0.396255771	PASS
DUOXA1	15	45117367	45129938	-0.396255771	PASS
DUOXA2	15	45114321	45118421	-0.396255771	PASS
DUPD1	10	75037836	75058514	0.072405807	PASS
DUS1L	17	82057506	82065887	0.088516311	PASS
DUS2	16	67987746	68079320	-0.371357732	PASS
DUS3L	19	5784832	5791238	0.079632875	PASS
DUS4L	7	107563484	107578464	-0.388946609	PASS
DUSP1	5	172768090	172771195	-0.150979337	PASS
DUSP10	1	221701424	221742176	-0.256698369	PASS
DUSP11	2	73762184	73780157	-0.372959126	PASS
DUSP12	1	161749758	161757238	-0.027073548	PASS
DUSP13	10	75094432	75109221	0.072405807	PASS
DUSP14	17	37489831	37513501	0.060555011	PASS

DUSP15	20	31847637	31870747	-0.168668583	PASS
DUSP16	12	12474210	12562383	0.362961408	suppress_segment_too_large
DUSP18	22	30652051	30667890	-0.575930959	PASS
DUSP19	2	183078559	183100005	-0.169541924	PASS
DUSP2	2	96143166	96145440	0.048238121	PASS
DUSP21	23	44844004	44844888	-0.012567603	PASS
DUSP22	6	291630	351355	0.048820648	PASS
DUSP23	1	159780932	159782543	-0.467855874	PASS
DUSP26	8	33591332	33600106	-0.345962679	PASS
DUSP27	1	167094045	167129165	-0.027073548	PASS
DUSP28	2	240560054	240564014	0.025928102	PASS
DUSP3	17	43766121	43778988	0.088516311	PASS
DUSP4	8	29333064	29350668	-0.345962679	PASS
DUSP5	10	110497838	110511544	0.063874692	PASS
DUSP6	12	89347232	89353271	0.202141228	PASS
DUSP7	3	52048919	52056550	-0.234617007	PASS
DUSP8	11	1554044	1571920	-0.333835828	PASS
DUSP9	23	153642492	153651326	-0.012567603	PASS
DUT	15	48331011	48343373	-0.396255771	PASS
DUXA	19	57154021	57167443	-0.180829161	PASS
DVL1	1	1335276	1349350	0.373964873	suppress_segment_too_large
DVL2	17	7225341	7234545	0.128406487	PASS
DVL3	3	184155311	184173614	0.318278996	suppress_segment_too_large
DXO	6	31969810	31972292	0.048820648	PASS
DYDC1	10	80336105	80356755	0.072405807	PASS
DYDC2	10	80344745	80368073	0.072405807	PASS
DYM	18	49041474	49461347	-0.376397843	PASS
DYNAP	18	54587757	54599493	-0.376397843	PASS
DYNC1H1	14	101964510	102056443	-0.192197564	PASS
DYNC1I1	7	95772506	96110322	-0.262778904	PASS
DYNC1I2	2	171687409	171748420	0.039726562	PASS
DYNC1LI1	3	32525971	32570874	0.311018244	suppress_segment_too_large
DYNC1LI2	16	66720893	66751798	-0.371357732	PASS
DYNC2H1	11	103109410	103479863	0.062969153	PASS
DYNC2LI1	2	43774039	43810010	0.040498426	PASS
DYNLL1	12	120469850	120498493	0.202141228	PASS
DYNLL2	17	58083415	58095536	0.088516311	PASS
DYNLRB1	20	34516409	34540958	-0.168668583	PASS
DYNLRB2	16	80540734	80550760	-0.371357732	PASS
DYNLT1	6	158636474	158644739	-0.035448111	PASS
DYNLT3	23	37836757	37847637	-0.012567603	PASS
DYRK1A	21	37365573	37526358	-0.064425456	suppress_segment_too_large
DYRK1B	19	39825350	39834201	0.093487731	suppress_segment_too_large
DYRK2	12	67648338	67665406	-0.202191512	PASS
DYRK3	1	206635536	206684419	-0.256698369	PASS
DYRK4	12	4562204	4615302	-0.086128028	PASS

DYSF	2	71453722	71686768	-0.372959126	PASS
DYTN	2	206651621	206718396	0.025928102	PASS
DZANK1	20	18383367	18467281	-0.168668583	PASS
DZIP1	13	95578202	95644703	-0.390786075	PASS
DZIP1L	3	138061990	138115818	0.313454204	suppress_segment_too_large
DZIP3	3	108589682	108694846	0.313454204	suppress_segment_too_large
E2F1	20	33675683	33686404	-0.168668583	PASS
E2F2	1	23506430	23531220	0.033763446	PASS
E2F3	6	20401906	20493715	0.048820648	PASS
E2F4	16	67192169	67198918	-0.371357732	PASS
E2F5	8	85177225	85217158	0.279445683	PASS
E2F6	2	11444375	11466177	0.040498426	PASS
E2F7	12	77021247	77065580	0.202141228	PASS
E2F8	11	19224063	19241620	-0.405444717	PASS
E4F1	16	2223566	2235742	0.069936844	PASS
EAF1	3	15427355	15450635	0.311018244	suppress_segment_too_large
EAF2	3	121835183	121886526	0.313454204	suppress_segment_too_large
EAPP	14	34515929	34539711	0.060212819	PASS
EARS2	16	23522014	23557731	0.069936844	PASS
EBAG9	8	109539711	109565996	0.279445683	PASS
EBF1	5	158695916	159099761	-0.150979337	PASS
EBF2	8	25841730	26045397	-0.345962679	PASS
EBF3	10	129835283	129963841	0.063874692	PASS
EBF4	20	2692878	2760108	-0.168668583	PASS
EBI3	19	4229498	4237531	0.079632875	PASS
EBLN1	10	22208814	22210021	0.039811807	PASS
EBLN2	3	73061659	73063337	-0.234617007	PASS
EBNA1BP2	1	43164175	43270936	0.033763446	PASS
EBP	23	48521158	48528716	-0.012567603	PASS
EBPL	13	49660723	49691475	-0.390786075	PASS
ECD	10	73130155	73169055	0.072405807	PASS
ECE1	1	21217247	21345572	0.033763446	PASS
ECE2	3	184276011	184293031	0.318278996	suppress_segment_too_large
ECEL1	2	232479827	232487828	0.025928102	PASS
ECH1	19	38815422	38832005	0.093487731	suppress_segment_too_large
ECHDC1	6	127288710	127343609	-0.458570262	PASS
ECHDC2	1	52895910	52927212	0.033763446	PASS
ECHDC3	10	11742366	11764070	0.039811807	PASS
ECHS1	10	133362480	133373689	0.063874692	PASS
ECI1	16	2239395	2252300	0.069936844	PASS
ECI2	6	4115689	4135597	0.048820648	PASS
ECM1	1	150508062	150513789	0.103015788	PASS
ECM2	9	92493554	92536655	0.365190713	suppress_segment_too_large
ECPAS	9	111360692	111484745	0.365190713	suppress_segment_too_large
ECSCR	5	139448556	139462743	-0.293443042	PASS
ECSIT	19	11505916	11529174	0.093487731	suppress_segment_too_large

ECT2	3	172750682	172821474	0.318278996	suppress_segment_too_large
ECT2L	6	138795926	138904070	-0.035448111	PASS
EDA	23	69616067	70039469	-0.012567603	PASS
EDA2R	23	66595637	66639298	-0.012567603	PASS
EDAR	2	108894471	108989372	-0.010901494	PASS
EDARADI	1	236348257	236502915	-0.256698369	PASS
EDC3	15	74630558	74696292	-0.697600509	PASS
EDC4	16	67873023	67884503	-0.371357732	PASS
EDDM3A	14	20745892	20748380	0.060212819	PASS
EDDM3B	14	20768427	20770948	0.060212819	PASS
EDEM1	3	5187646	5219957	0.311018244	suppress_segment_too_large
EDEM2	20	35115357	35147364	-0.168668583	PASS
EDEM3	1	184690231	184754913	-0.027073548	PASS
EDF1	9	136862119	136866286	0.365190713	suppress_segment_too_large
EDIL3	5	83940554	84384793	-0.293443042	PASS
EDN1	6	12290363	12297194	0.048820648	PASS
EDN2	1	41478775	41484673	0.033763446	PASS
EDN3	20	59300427	59325992	-0.168668583	PASS
EDNRA	4	147480917	147544954	-0.011382299	PASS
EDNRB	13	77895481	77975529	-0.390786075	PASS
EDRF1	10	125719515	125764143	0.063874692	PASS
EEA1	12	92770637	92929331	0.202141228	PASS
EED	11	86244544	86278813	0.062969153	PASS
EEF1A1	6	73515750	73523797	-0.368590549	PASS
EEF1A2	20	63488012	63499322	-0.168668583	PASS
EEF1AKM	13	20728731	20773958	-0.390786075	PASS
EEF1AKM	10	124748149	124791870	0.063874692	PASS
EEF1AKM	12	57771492	57782541	-0.202191512	PASS
EEF1AKM	3	184249650	184259585	0.318278996	suppress_segment_too_large
EEF1AKM	3	184249695	184293031	0.318278996	suppress_segment_too_large
EEF1B2	2	206159585	206162928	0.025928102	PASS
EEF1D	8	143579697	143599541	0.307788765	PASS
EEF1E1	6	8073360	8102578	0.048820648	PASS
EEF1E1-BI	6	8015726	8102530	0.048820648	PASS
EEF1G	11	62559601	62574086	0.182439925	suppress_segment_too_large
EEF2	19	3976056	3985469	0.079632875	PASS
EEF2K	16	22206282	22288732	0.069936844	PASS
EEF2KMT	16	5084304	5097808	0.069936844	PASS
EEFSEC	3	128153454	128408646	0.313454204	suppress_segment_too_large
EEPD1	7	36153149	36301543	-0.69513118	PASS
EFCAB1	8	48710789	48735311	-0.201142258	PASS
EFCAB10	7	105565120	105600875	-0.388946609	PASS
EFCAB11	14	89794669	89954777	-0.192197564	PASS
EFCAB12	3	129401321	129428651	0.313454204	suppress_segment_too_large
EFCAB13	17	47323290	47441312	0.088516311	PASS
EFCAB14	1	46675159	46719064	0.033763446	PASS

EFCAB2	1	244969705	245127164	-0.368111568	PASS
EFCAB3	17	62343941	62416479	0.088516311	PASS
EFCAB5	17	29929200	30108452	0.060555011	PASS
EFCAB6	22	43528744	43812337	-0.575930959	PASS
EFCAB7	1	63523372	63572693	0.033763446	PASS
EFCAB8	20	32858923	32961609	-0.168668583	PASS
EFCAB9	5	172194172	172203452	-0.150979337	PASS
EFCC1	3	129001629	129040742	0.313454204	suppress_segment_too_large
EFEMP1	2	55865967	55924139	0.040498426	PASS
EFEMP2	11	65866441	65873592	0.182439925	suppress_segment_too_large
EFHB	3	19879472	19947025	0.311018244	suppress_segment_too_large
EFHC1	6	52362123	52529886	0.048820648	PASS
EFHC2	23	44147882	44343672	-0.012567603	PASS
EFHD1	2	232606057	232682781	0.025928102	PASS
EFHD2	1	15409895	15430343	0.033763446	PASS
EFL1	15	82130230	82262763	-0.697600509	PASS
EFNA1	1	155127460	155134857	0.103015788	PASS
EFNA2	19	1286154	1300237	0.079632875	PASS
EFNA3	1	155078872	155087538	0.103015788	PASS
EFNA4	1	155063731	155069553	0.103015788	PASS
EFNA5	5	107376889	107670895	-0.293443042	PASS
EFNB1	23	68828997	68842147	-0.012567603	PASS
EFNB2	13	106489731	106535662	-0.390786075	PASS
EFNB3	17	7705202	7711378	0.128406487	PASS
EFR3A	8	131904088	132013642	0.113969953	PASS
EFR3B	2	25042130	25159137	0.040498426	PASS
EFS	14	23356402	23365752	0.060212819	PASS
EFTUD2	17	44849943	44899662	0.088516311	PASS
EGF	4	109912884	110012266	-0.011382299	PASS
EGFL6	23	13569605	13633575	-0.012567603	PASS
EGFL7	9	136658856	136672678	0.365190713	suppress_segment_too_large
EGFL8	6	32164583	32168281	0.048820648	PASS
EGFLAM	5	38258409	38465021	0.055007813	PASS
EGFR	7	55019021	55211628	-0.750061359	PASS
EGLN1	1	231363751	231425044	-0.256698369	PASS
EGLN2	19	40798996	40808433	0.093487731	suppress_segment_too_large
EGLN3	14	33924231	34462774	0.060212819	PASS
EGR1	5	138465490	138469315	-0.293443042	PASS
EGR2	10	62811996	62919900	0.072405807	PASS
EGR3	8	22687659	22693302	-0.345962679	PASS
EGR4	2	73290929	73293705	-0.372959126	PASS
EHBP1	2	62673851	63046487	-0.372959126	PASS
EHBP1L1	11	65576038	65592650	0.182439925	suppress_segment_too_large
EHD1	11	64851642	64888296	0.182439925	suppress_segment_too_large
EHD2	19	47713343	47743134	0.14996833	PASS
EHD3	2	31234337	31269447	0.040498426	PASS

EHD4	15	41895939	41972578	-0.396255771	PASS
EHF	11	34621093	34661057	-0.405444717	PASS
EHHADH	3	185190624	185281990	0.318278996	suppress_segment_too_large
EHMT1	9	137618963	137870016	0.365190713	suppress_segment_too_large
EHMT2	6	31879759	31897687	0.048820648	PASS
EI24	11	125569216	125584687	-0.419612865	PASS
EID1	15	48877886	48880183	-0.396255771	PASS
EID2	19	39538705	39540333	0.093487731	suppress_segment_too_large
EID2B	19	39530990	39532854	0.093487731	suppress_segment_too_large
EID3	12	104303739	104305205	0.202141228	PASS
EIF1	17	41688885	41692668	0.060555011	PASS
EIF1AD	11	65996545	66002176	0.182439925	suppress_segment_too_large
EIF1AX	23	20124518	20141844	-0.012567603	PASS
EIF1B	3	40309684	40312424	-0.234617007	PASS
EIF2A	3	150546678	150584242	0.318278996	suppress_segment_too_large
EIF2AK1	7	6022244	6059230	-0.69513118	PASS
EIF2AK2	2	37099210	37157065	0.040498426	PASS
EIF2AK3	2	88556741	88627576	-0.340781246	PASS
EIF2AK4	15	39934146	40035591	-0.396255771	PASS
EIF2B1	12	123620406	123633766	0.202141228	PASS
EIF2B2	14	75002911	75012366	-0.192197564	PASS
EIF2B3	1	44850522	44986722	0.033763446	PASS
EIF2B4	2	27364352	27370486	0.040498426	PASS
EIF2B5	3	184135038	184146112	0.318278996	suppress_segment_too_large
EIF2D	1	206571292	206612463	-0.256698369	PASS
EIF2S1	14	67359997	67386516	0.060212819	PASS
EIF2S2	20	34088298	34112332	-0.168668583	PASS
EIF2S3	23	24054716	24077971	-0.012567603	PASS
EIF2S3B	12	10505602	10523135	0.362961408	suppress_segment_too_large
EIF3A	10	119033670	119080823	0.063874692	PASS
EIF3B	7	2354086	2380745	-0.69513118	PASS
EIF3C	16	28688558	28735730	0.069936844	PASS
EIF3D	22	36510850	36529436	-0.575930959	PASS
EIF3E	8	108201216	108435333	0.279445683	PASS
EIF3F	11	7970251	8001862	-0.405444717	PASS
EIF3G	19	10115017	10119918	0.093487731	suppress_segment_too_large
EIF3H	8	116642130	116766925	0.279445683	PASS
EIF3I	1	32221928	32231604	0.033763446	PASS
EIF3J	15	44537057	44563029	-0.396255771	PASS
EIF3K	19	38619082	38636955	0.093487731	suppress_segment_too_large
EIF3L	22	37848868	37889407	-0.575930959	PASS
EIF3M	11	32583798	32606262	-0.405444717	PASS
EIF4A1	17	7572706	7579005	0.128406487	PASS
EIF4A2	3	186783205	186789900	0.318278996	suppress_segment_too_large
EIF4A3	17	80135214	80147183	0.088516311	PASS
EIF4B	12	53006158	53042209	-0.202191512	PASS

EIF4E	4	98871684	98930637	-0.011382299	PASS
EIF4E1B	5	176630618	176646641	-0.150979337	PASS
EIF4E2	2	232550052	232583644	0.025928102	PASS
EIF4E3	3	71675416	71754773	-0.234617007	PASS
EIF4EBP1	8	38030341	38060365	-0.201142258	PASS
EIF4EBP2	10	70404379	70428618	0.072405807	PASS
EIF4EBP3	5	140547666	140549578	-0.293443042	PASS
EIF4ENIF1	22	31436977	31496108	-0.575930959	PASS
EIF4G1	3	184314495	184335358	0.318278996	suppress_segment_too_large
EIF4G2	11	10797050	10809110	-0.405444717	PASS
EIF4G3	1	20806292	21176888	0.033763446	PASS
EIF4H	7	74174245	74197101	-0.262778904	PASS
EIF5	14	103333544	103345025	-0.192197564	PASS
EIF5A	17	7306999	7312463	0.128406487	PASS
EIF5A2	3	170888415	170908693	0.318278996	suppress_segment_too_large
EIF5AL1	10	79512601	79516440	0.072405807	PASS
EIF5B	2	99337353	99401326	0.048238121	PASS
EIF6	20	35278911	35284985	-0.168668583	PASS
EIPR1	2	3188925	3377882	0.040498426	PASS
ELAC1	18	50967991	50988121	-0.376397843	PASS
ELAC2	17	12992391	13018187	-0.139031004	PASS
ELANE	19	851014	856247	0.079632875	PASS
ELAVL1	19	7958579	8005659	0.079632875	PASS
ELAVL2	9	23690104	23826337	-0.310444659	PASS
ELAVL3	19	11451326	11481046	0.093487731	suppress_segment_too_large
ELAVL4	1	50048014	50203786	0.033763446	PASS
ELF1	13	40932028	41061440	-0.390786075	PASS
ELF2	4	139028112	139177218	-0.011382299	PASS
ELF3	1	202007945	202017188	-0.256698369	PASS
ELF4	23	130064874	130110716	-0.012567603	PASS
ELF5	11	34478793	34513805	-0.405444717	PASS
ELFN1	7	1688119	1747954	-0.69513118	PASS
ELFN2	22	37367960	37427470	-0.575930959	PASS
ELK1	23	47635521	47650604	-0.012567603	PASS
ELK3	12	96194382	96269835	0.202141228	PASS
ELK4	1	205597556	205631962	-0.256698369	PASS
ELL	19	18442663	18522127	0.093487731	suppress_segment_too_large
ELL2	5	95885098	95962071	-0.293443042	PASS
ELL3	15	43772600	43777543	-0.396255771	PASS
ELMO1	7	36854361	37449249	-0.69513118	PASS
ELMO2	20	46366049	46432985	-0.168668583	PASS
ELMO3	16	67199111	67204029	-0.371357732	PASS
ELMOD1	11	107591091	107666779	-0.356188624	PASS
ELMOD2	4	140524158	140553770	-0.011382299	PASS
ELMOD3	2	85354394	85391752	0.066915641	PASS
ELMSAN1	14	73715122	73790285	0.060212819	PASS

ELN	7	74027789	74069907	-0.262778904	PASS
ELOA	1	23743155	23762059	0.033763446	PASS
ELOA2	18	47032572	47035621	-0.376397843	PASS
ELOA3C	18	46968695	46969912	-0.376397843	PASS
ELOA3D	18	46962768	46964408	-0.376397843	PASS
ELOB	16	2771414	2777297	0.069936844	PASS
ELOC	8	73939169	73972287	-0.201142258	PASS
ELOF1	19	11551147	11559236	0.093487731	suppress_segment_too_large
ELOVL1	1	43363397	43368074	0.033763446	PASS
ELOVL2	6	10980759	11044314	0.048820648	PASS
ELOVL3	10	102226328	102229589	-0.367947924	PASS
ELOVL4	6	79914812	79947580	-0.368590549	PASS
ELOVL5	6	53267398	53349179	0.048820648	PASS
ELOVL6	4	110045846	110199199	-0.011382299	PASS
ELOVL7	5	60751791	60844389	-0.293443042	PASS
ELP1	9	108867517	108934116	0.365190713	suppress_segment_too_large
ELP2	18	36129444	36180556	-0.376397843	PASS
ELP3	8	28089673	28191156	-0.345962679	PASS
ELP4	11	31509700	31790328	-0.405444717	PASS
ELP5	17	7251416	7259940	0.128406487	PASS
ELP6	3	47495640	47513761	-0.234617007	PASS
ELSPBP1	19	47994651	48025153	0.14996833	PASS
EMB	5	50396192	50443248	-0.293443042	PASS
EMC1	1	19215664	19251552	0.033763446	PASS
EMC10	19	50476400	50490870	-0.016761391	PASS
EMC2	8	108443601	108486918	0.279445683	PASS
EMC3	3	9962537	10011116	0.311018244	suppress_segment_too_large
EMC4	15	34224999	34230156	-0.396255771	PASS
EMC6	17	3668815	3669668	0.128406487	PASS
EMC7	15	34084017	34101948	-0.396255771	PASS
EMC8	16	85771758	85799608	-0.371357732	PASS
EMC9	14	24138959	24141588	0.060212819	PASS
EMCN	4	100395341	100880126	-0.011382299	PASS
EMD	23	154379197	154381523	-0.012567603	PASS
EME1	17	50373220	50381483	0.088516311	PASS
EME2	16	1773207	1781708	0.069936844	PASS
EMG1	12	6970893	6997428	-0.086128028	PASS
EMID1	22	29205851	29259597	-0.575930959	PASS
EMILIN1	2	27078567	27086408	0.040498426	PASS
EMILIN2	18	2847030	2915993	-0.052305056	suppress_segment_too_large
EMILIN3	20	41359966	41366827	-0.168668583	PASS
EML1	14	99737693	99942060	-0.192197564	PASS
EML2	19	45606994	45645629	0.14996833	PASS
EML3	11	62602218	62612765	0.182439925	suppress_segment_too_large
EML4	2	42169350	42332548	0.040498426	PASS
EML5	14	88612431	88792752	-0.192197564	PASS

EML6	2	54723499	54972025	0.040498426	PASS
EMP1	12	13196716	13219939	0.362961408	suppress_segment_too_large
EMP2	16	10528422	10580698	0.069936844	PASS
EMP3	19	48321509	48330553	0.14996833	PASS
EMSY	11	76444923	76553025	0.062969153	PASS
EMX1	2	72916260	72936071	-0.372959126	PASS
EMX2	10	117542444	117549546	0.063874692	PASS
EN1	2	118842171	118847678	-0.475215623	PASS
EN2	7	155458129	155464831	-0.411415677	PASS
ENAH	1	225486835	225653142	-0.256698369	PASS
ENAM	4	70628744	70686816	-0.011382299	PASS
ENC1	5	74627406	74641424	-0.293443042	PASS
ENDOD1	11	95089810	95132645	0.062969153	PASS
ENDOG	9	128818474	128822677	0.365190713	suppress_segment_too_large
ENDOU	12	47709734	47725567	-0.202191512	PASS
ENDOV	17	80415165	80438086	0.088516311	PASS
ENG	9	127815012	127854756	0.365190713	suppress_segment_too_large
ENGASE	17	79074939	79088599	0.088516311	PASS
ENHO	9	34521040	34523041	-0.310444659	PASS
ENKD1	16	67662945	67667265	-0.371357732	PASS
ENKUR	10	24981979	25062279	0.039811807	PASS
ENO1	1	8861000	8879250	0.373964873	suppress_segment_too_large
ENO2	12	6913745	6923698	-0.086128028	PASS
ENO3	17	4948092	4957131	0.128406487	PASS
ENO4	10	116849512	116911788	0.063874692	PASS
ENOPH1	4	82430562	82461091	-0.011382299	PASS
ENOSF1	18	670324	712676	-0.052305056	suppress_segment_too_large
ENOX1	13	43213518	43786908	-0.390786075	PASS
ENOX2	23	130623369	130903317	-0.012567603	PASS
ENPEP	4	110365733	110565285	-0.011382299	PASS
ENPP1	6	131808016	131895155	-0.458570262	PASS
ENPP2	8	119557086	119673453	0.279445683	PASS
ENPP3	6	131628442	131747418	-0.458570262	PASS
ENPP4	6	46129993	46146699	0.048820648	PASS
ENPP5	6	46159187	46170971	0.048820648	PASS
ENPP6	4	184088706	184221230	-0.462744716	PASS
ENPP7	17	79730919	79742222	0.088516311	PASS
ENSA	1	150600851	150629612	0.103015788	PASS
ENTHD1	22	39743044	39893864	-0.575930959	PASS
ENTPD1	10	95711779	95869695	-0.39678585	PASS
ENTPD2	9	137048098	137054045	0.365190713	suppress_segment_too_large
ENTPD3	3	40387156	40428744	-0.234617007	PASS
ENTPD4	8	23385783	23457695	-0.345962679	PASS
ENTPD5	14	73958010	74019399	0.060212819	PASS
ENTPD6	20	25195693	25226729	-0.168668583	PASS
ENTPD7	10	99659506	99706240	-0.367947924	PASS

ENTPD8	9	137434364	137441816	0.365190713	suppress_segment_too_large
ENTR1	9	136401922	136410609	0.365190713	suppress_segment_too_large
ENY2	8	109334324	109345953	0.279445683	PASS
EOGT	3	68975214	69013961	-0.234617007	PASS
EOMES	3	27715949	27722711	0.311018244	suppress_segment_too_large
EP300	22	41091786	41180079	-0.575930959	PASS
EP400	12	131949920	132081102	0.270848837	PASS
EPAS1	2	46293667	46386703	0.040498426	PASS
EPB41	1	28887091	29120046	0.033763446	PASS
EPB41L1	20	36091504	36232799	-0.168668583	PASS
EPB41L2	6	130839347	131063322	-0.458570262	PASS
EPB41L3	18	5392381	5630700	-0.052305056	suppress_segment_too_large
EPB41L4A	5	112142441	112419316	-0.293443042	PASS
EPB41L4B	9	109171975	109320964	0.365190713	suppress_segment_too_large
EPB41L5	2	120013005	120179119	-0.475215623	PASS
EPB42	15	43197227	43221125	-0.396255771	PASS
EPC1	10	32267751	32378798	0.039811807	PASS
EPC2	2	148644440	148787568	-0.475215623	PASS
EPCAM	2	47345158	47387601	0.040498426	PASS
EPDR1	7	37683843	37951941	-0.69513118	PASS
EPG5	18	45847609	45967339	-0.376397843	PASS
EPGN	4	74308473	74315307	-0.011382299	PASS
EPHA1	7	143390289	143408892	-0.388946609	PASS
EPHA10	1	37713880	37765133	0.033763446	PASS
EPHA2	1	16124337	16156087	0.033763446	PASS
EPHA3	3	89107524	89482134	0.313454204	suppress_segment_too_large
EPHA4	2	221418027	221574202	0.025928102	PASS
EPHA5	4	65319563	65670495	-0.011382299	PASS
EPHA6	3	96814581	97752460	0.313454204	suppress_segment_too_large
EPHA7	6	93240020	93419547	-0.368590549	PASS
EPHA8	1	22563564	22603594	0.033763446	PASS
EPHB1	3	134597801	135260467	0.313454204	suppress_segment_too_large
EPHB2	1	22710839	22921500	0.033763446	PASS
EPHB3	3	184561784	184582409	0.318278996	suppress_segment_too_large
EPHB4	7	100802565	100827521	-0.262778904	PASS
EPHB6	7	142855061	142871094	-0.388946609	PASS
EPHX1	1	225810092	225845563	-0.256698369	PASS
EPHX2	8	27490779	27545564	-0.345962679	PASS
EPHX3	19	15226919	15233435	0.093487731	suppress_segment_too_large
EPHX4	1	92029982	92063536	0.033763446	PASS
EPM2A	6	145382535	145736023	-0.035448111	PASS
EPM2AIP1	3	36985043	36993168	-0.234617007	PASS
EPN1	19	55675226	55709858	0.121336758	PASS
EPN2	17	19215615	19336715	0.024610076	PASS
EPN3	17	50532543	50543750	0.088516311	PASS
EPO	7	100720800	100723700	-0.262778904	PASS

EPOP	17	38671703	38675421	0.060555011	PASS
EPOR	19	11377205	11384342	0.093487731	suppress_segment_too_large
EPPIN	20	45540626	45547752	-0.168668583	PASS
EPPIN-WF	20	45536986	45547426	-0.168668583	PASS
EPPK1	8	143857324	143878464	0.307788765	PASS
EPRS	1	219968601	220046658	-0.256698369	PASS
EPS15	1	51354263	51519328	0.033763446	PASS
EPS15L1	19	16355239	16472085	0.093487731	suppress_segment_too_large
EPS8	12	15620158	15882329	0.362961408	suppress_segment_too_large
EPS8L1	19	55072020	55087923	0.121336758	PASS
EPS8L2	11	694438	727727	-0.333835828	PASS
EPS8L3	1	109750080	109764027	0.033763446	PASS
EPSTI1	13	42886388	42992271	-0.390786075	PASS
EPX	17	58192737	58205174	0.088516311	PASS
EPYC	12	90963679	91005026	0.202141228	PASS
EQTN	9	27284659	27297139	-0.310444659	PASS
ERAL1	17	28854938	28861067	0.060555011	PASS
ERAP1	5	96760810	96808100	-0.293443042	PASS
ERAP2	5	96875939	96919716	-0.293443042	PASS
ERAS	23	48826513	48830138	-0.012567603	PASS
ERBB2	17	39687914	39730426	0.060555011	PASS
ERBB3	12	56076799	56103505	-0.202191512	PASS
ERBB4	2	211375717	212538841	0.025928102	PASS
ERBIN	5	65926475	66082549	-0.293443042	PASS
ERC1	12	990509	1495933	-0.086128028	PASS
ERC2	3	55508308	56468363	-0.234617007	PASS
ERCC1	19	45407333	45478828	0.14996833	PASS
ERCC2	19	45349837	45370918	0.14996833	PASS
ERCC3	2	127257290	127294176	-0.475215623	PASS
ERCC4	16	13920157	13952345	0.069936844	PASS
ERCC5	13	102807146	102876001	-0.390786075	PASS
ERCC6	10	49455368	49539538	-0.404852538	PASS
ERCC6L	23	72204657	72239047	-0.012567603	PASS
ERCC6L2	9	95875701	96014571	0.365190713	suppress_segment_too_large
ERCC8	5	60873831	60945073	-0.293443042	PASS
EREG	4	74365143	74388751	-0.011382299	PASS
ERF	19	42247572	42255157	0.093487731	suppress_segment_too_large
ERFE	2	238158982	238168900	0.025928102	PASS
ERG	21	38380027	38661780	-0.064425456	suppress_segment_too_large
ERG28	14	75649791	75661189	-0.192197564	PASS
ERGIC1	5	172834275	172952685	-0.150979337	PASS
ERGIC2	12	29337352	29381189	0.362961408	suppress_segment_too_large
ERGIC3	20	35542021	35557634	-0.168668583	PASS
ERH	14	69380123	69398627	0.060212819	PASS
ERI1	8	9002147	9116746	-0.345962679	PASS
ERI2	16	20780193	20900349	0.069936844	PASS

ERI3	1	44221070	44355260	0.033763446	PASS
ERICH1	8	614746	738106	-0.313874214	PASS
ERICH2	2	170783786	170798971	0.039726562	PASS
ERICH3	1	74568111	74673738	0.033763446	PASS
ERICH4	19	41443158	41444765	0.093487731	suppress_segment_too_large
ERICH5	8	98064311	98093610	0.279445683	PASS
ERICH6	3	150659885	150703971	0.318278996	suppress_segment_too_large
ERICH6B	13	45534522	45615739	-0.390786075	PASS
ERLEC1	2	53787044	53818819	0.040498426	PASS
ERLIN1	10	100150094	100188334	-0.367947924	PASS
ERLIN2	8	37736601	37759101	-0.201142258	PASS
ERMAP	1	42817088	42844993	0.033763446	PASS
ERMARD	6	169751622	169781584	-0.035448111	PASS
ERMN	2	157318625	157327713	-0.475215623	PASS
ERMP1	9	5765076	5833117	-0.310444659	PASS
ERN1	17	64039142	64130819	0.088516311	PASS
ERN2	16	23690326	23713500	0.069936844	PASS
ERO1A	14	52639916	52695900	0.060212819	PASS
ERO1B	1	236215555	236281985	-0.256698369	PASS
ERP27	12	14914035	14939082	0.362961408	suppress_segment_too_large
ERP29	12	112013316	112023451	0.202141228	PASS
ERP44	9	99979179	100099040	0.365190713	suppress_segment_too_large
ERRFI1	1	8004404	8026308	0.373964873	suppress_segment_too_large
ERV3-1	7	64990809	65006743	-0.750061359	PASS
ERVFRD-1	6	11102489	11111732	0.048820648	PASS
ERVK3-1	19	58305319	58315663	0.063781462	PASS
ERVMER3	4	52722618	52751640	-0.011382299	PASS
ERVV-1	19	53013921	53016122	0.206912349	PASS
ERVV-2	19	53044738	53051076	0.206912349	PASS
ERVW-1	7	92468380	92477986	-0.262778904	PASS
ESAM	11	124752583	124762290	-0.419612865	PASS
ESCO1	18	21529281	21600884	-0.376397843	PASS
ESCO2	8	27771949	27812640	-0.345962679	PASS
ESD	13	46771256	46797232	-0.390786075	PASS
ESF1	20	13714322	13784886	-0.168668583	PASS
ESM1	5	54977864	55022671	-0.293443042	PASS
ESPL1	12	53268299	53293643	-0.202191512	PASS
ESPN	1	6424776	6461367	0.373964873	suppress_segment_too_large
ESPNL	2	238100157	238133287	0.025928102	PASS
ESR1	6	151656691	152129619	-0.035448111	PASS
ESR2	14	64084232	64338112	0.060212819	PASS
ESRP1	8	94641074	94707466	0.279445683	PASS
ESRP2	16	68229111	68238102	-0.371357732	PASS
ESRRA	11	64305572	64316743	0.182439925	suppress_segment_too_large
ESRRB	14	76310712	76501837	-0.192197564	PASS
ESRRG	1	216503246	217137755	-0.256698369	PASS

ESS2	22	19130279	19144684	-0.575930959	PASS
ESX1	23	104250038	104254933	-0.012567603	PASS
ESYT1	12	56118250	56144671	-0.202191512	PASS
ESYT2	7	158730995	158830253	-0.411415677	PASS
ESYT3	3	138434586	138481686	0.313454204	suppress_segment_too_large
ETAA1	2	67397319	67412089	-0.372959126	PASS
ETF1	5	138506095	138543300	-0.293443042	PASS
ETFA	15	76215355	76311472	-0.697600509	PASS
ETFB	19	51345169	51366418	-0.016761391	PASS
ETFBKMT	12	31647160	31673114	0.362961408	suppress_segment_too_large
ETFDH	4	158672125	158709623	-0.011382299	PASS
ETFRF1	12	25195216	25209645	0.362961408	suppress_segment_too_large
ETHE1	19	43506719	43527244	0.14996833	PASS
ETNK1	12	22625075	22690665	0.362961408	suppress_segment_too_large
ETNK2	1	204131062	204152003	-0.256698369	PASS
ETNPPL	4	108742040	108763054	-0.011382299	PASS
ETS1	11	128458761	128587558	-0.419612865	PASS
ETS2	21	38805307	38824955	-0.064425456	suppress_segment_too_large
ETV1	7	13891228	13991425	-0.69513118	PASS
ETV2	19	35641745	35644871	0.093487731	suppress_segment_too_large
ETV3	1	157121191	157138474	0.103015788	PASS
ETV3L	1	157092044	157099808	0.103015788	PASS
ETV4	17	43527844	43579620	0.088516311	PASS
ETV5	3	186046308	186110318	0.318278996	suppress_segment_too_large
ETV6	12	11649854	11895402	0.362961408	suppress_segment_too_large
ETV7	6	36354091	36387800	0.048820648	PASS
EVA1A	2	75469302	75569722	-0.372959126	PASS
EVA1B	1	36322031	36324154	0.033763446	PASS
EVA1C	21	32412006	32515397	0.12860881	suppress_segment_too_large
EVC	4	5711197	5814305	0.279089364	PASS
EVC2	4	5542772	5709548	0.279089364	PASS
EVI2A	17	31317560	31321884	0.060555011	PASS
EVI2B	17	31303766	31314112	0.060555011	PASS
EVI5	1	92508696	92792404	0.033763446	PASS
EVI5L	19	7830233	7864976	0.079632875	PASS
EVL	14	99971449	100144236	-0.192197564	PASS
EVPL	17	76004502	76027452	0.088516311	PASS
EVPLL	17	18377662	18389647	0.024610076	PASS
EVX1	7	27242700	27250493	-0.69513118	PASS
EVX2	2	176077472	176083913	0.039726562	PASS
EWSR1	22	29268009	29300525	-0.575930959	PASS
EXD1	15	41182725	41230743	-0.396255771	PASS
EXD2	14	69191511	69244020	0.060212819	PASS
EXD3	9	137306896	137423262	0.365190713	suppress_segment_too_large
EXO1	1	241847967	241895148	-0.648598641	PASS
EXO5	1	40508741	40516556	0.033763446	PASS

EXOC1	4	55853616	55905034	-0.011382299	PASS
EXOC2	6	485133	693111	0.048820648	PASS
EXOC3	5	443158	471937	0.055007813	PASS
EXOC3L1	16	67184366	67190204	-0.371357732	PASS
EXOC3L2	19	45212621	45245431	0.14996833	PASS
EXOC3L4	14	103100144	103110559	-0.192197564	PASS
EXOC4	7	133253073	134066589	-0.388946609	PASS
EXOC5	14	57200507	57269008	0.060212819	PASS
EXOC6	10	92834713	93059493	-0.39678585	PASS
EXOC6B	2	72175984	72826041	-0.372959126	PASS
EXOC7	17	76081017	76121576	0.088516311	PASS
EXOC8	1	231332753	231337852	-0.256698369	PASS
EXOG	3	38496127	38542161	-0.234617007	PASS
EXOSC1	10	97436142	97446017	-0.367947924	PASS
EXOSC10	1	11066618	11099881	0.373964873	suppress_segment_too_large
EXOSC2	9	130693721	130704894	0.365190713	suppress_segment_too_large
EXOSC3	9	37766978	37801437	-0.310444659	PASS
EXOSC4	8	144078626	144080647	0.307788765	PASS
EXOSC5	19	41386374	41397479	0.093487731	suppress_segment_too_large
EXOSC6	16	70246778	70251930	-0.371357732	PASS
EXOSC7	3	44975241	45036066	-0.234617007	PASS
EXOSC8	13	36998816	37009613	-0.390786075	PASS
EXOSC9	4	121801317	121817021	-0.011382299	PASS
EXPH5	11	108505431	108593738	-0.356188624	PASS
EXT1	8	117794490	118111853	0.279445683	PASS
EXT2	11	44095549	44245429	0.117376172	PASS
EXTL1	1	26019884	26036464	0.033763446	PASS
EXTL2	1	100872372	100895998	0.033763446	PASS
EXTL3	8	28600469	28755599	-0.345962679	PASS
EYA1	8	71197433	71592025	-0.201142258	PASS
EYA2	20	46894624	47188844	-0.168668583	PASS
EYA3	1	27970344	28088696	0.033763446	PASS
EYA4	6	133240598	133532120	-0.458570262	PASS
EYS	6	63719980	65707225	0.048820648	PASS
EZH1	17	42700275	42745049	0.088516311	PASS
EZH2	7	148807383	148884321	-0.388946609	PASS
EZR	6	158765741	158819412	-0.035448111	PASS
F10	13	113122814	113149529	-0.390786075	PASS
F11	4	186265945	186288806	-0.462744716	PASS
F11R	1	160995211	161021348	-0.027073548	PASS
F12	5	177402140	177409576	-0.150979337	PASS
F13A1	6	6144085	6321013	0.048820648	PASS
F13B	1	197038741	197067267	-0.027073548	PASS
F2	11	46719180	46739506	0.117376172	PASS
F2R	5	76716043	76735781	-0.293443042	PASS
F2RL1	5	76818933	76835315	-0.293443042	PASS

F2RL2	5	76615482	76623434	-0.293443042	PASS
F2RL3	19	16888860	16892606	0.093487731	suppress_segment_too_large
F3	1	94529225	94541800	0.033763446	PASS
F5	1	169514166	169586588	-0.027073548	PASS
F7	13	113105788	113120681	-0.390786075	PASS
F8	23	154835788	155026940	-0.012567603	PASS
F8A1	23	154886349	154888061	-0.012567603	PASS
F9	23	139530758	139563458	-0.012567603	PASS
FA2H	16	74712955	74774831	-0.371357732	PASS
FAAH	1	46394265	46413848	0.033763446	PASS
FAAH2	23	57286706	57489196	-0.012567603	PASS
FAAP100	17	81539885	81553961	0.088516311	PASS
FAAP20	1	2184461	2212720	0.373964873	suppress_segment_too_large
FAAP24	19	32972209	32978222	0.093487731	suppress_segment_too_large
FABP1	2	88122982	88128116	-0.340781246	PASS
FABP12	8	81524981	81531378	0.279445683	PASS
FABP2	4	119317250	119322390	-0.011382299	PASS
FABP3	1	31365625	31376850	0.033763446	PASS
FABP4	8	81478419	81483263	0.279445683	PASS
FABP5	8	81280363	81284777	0.279445683	PASS
FABP6	5	160187367	160238735	-0.150979337	PASS
FABP7	6	122779475	122784074	-1.97829255	PASS
FABP9	8	81458341	81461579	0.279445683	PASS
FADD	11	70203163	70207390	0.182439925	suppress_segment_too_large
FADS1	11	61799625	61829318	0.182439925	suppress_segment_too_large
FADS2	11	61792980	61867354	0.182439925	suppress_segment_too_large
FADS3	11	61873519	61892051	0.182439925	suppress_segment_too_large
FADS6	17	74877299	74893781	0.088516311	PASS
FAF1	1	50437028	50960263	0.033763446	PASS
FAF2	5	176447628	176510074	-0.150979337	PASS
FAH	15	80152490	80186946	-0.697600509	PASS
FAHD1	16	1826941	1840207	0.069936844	PASS
FAHD2A	2	95402721	95416616	0.048238121	PASS
FAHD2B	2	97083583	97094882	0.048238121	PASS
FAIM	3	138608606	138633376	0.313454204	suppress_segment_too_large
FAIM2	12	49866896	49904217	-0.202191512	PASS
FAM102A	9	127940579	127980513	0.365190713	suppress_segment_too_large
FAM102B	1	108560089	108644900	0.033763446	PASS
FAM104A	17	73207353	73236753	0.088516311	PASS
FAM104B	23	55143102	55161310	-0.012567603	PASS
FAM107A	3	58564117	58627610	-0.234617007	PASS
FAM107B	10	14518557	14774897	0.039811807	PASS
FAM110A	20	833715	857463	-0.168668583	PASS
FAM110B	8	57994509	58204279	-0.201142258	PASS
FAM110C	2	38814	46870	0.040498426	PASS
FAM110D	1	26159020	26163962	0.033763446	PASS

FAM111A	11	59142748	59155039	-0.129266491	PASS
FAM111B	11	59107185	59127410	-0.129266491	PASS
FAM114A	4	38867677	38945739	-0.011382299	PASS
FAM114A	5	153990128	154038936	-0.293443042	PASS
FAM117A	17	49710332	49789180	0.088516311	PASS
FAM117B	2	202635188	202769757	0.025928102	PASS
FAM118A	22	45308968	45341955	-0.808211634	PASS
FAM118B	11	126211414	126262986	-0.419612865	PASS
FAM120A	9	93451722	93566107	0.365190713	suppress_segment_too_large
FAM120A	9	93431441	93453592	0.365190713	suppress_segment_too_large
FAM120B	6	170290703	170407065	-0.035448111	PASS
FAM120C	23	54068324	54183281	-0.012567603	PASS
FAM122A	9	68780034	68784608	-0.310444659	PASS
FAM122B	23	134769566	134797232	-0.012567603	PASS
FAM122C	23	134796395	134854835	-0.012567603	PASS
FAM124A	13	51222334	51284241	-0.390786075	PASS
FAM124B	2	224378698	224402085	0.025928102	PASS
FAM126A	7	22889371	23014130	-0.69513118	PASS
FAM126B	2	200973718	201071671	0.025928102	PASS
FAM129A	1	184790724	184974550	-0.027073548	PASS
FAM129B	9	127505339	127578989	0.365190713	suppress_segment_too_large
FAM129C	19	17523301	17553839	0.093487731	suppress_segment_too_large
FAM131A	3	184335926	184348421	0.318278996	suppress_segment_too_large
FAM131B	7	143353400	143362770	-0.388946609	PASS
FAM131C	1	16057769	16073632	0.033763446	PASS
FAM133A	23	93674013	93712274	-0.012567603	PASS
FAM133B	7	92560793	92590394	-0.262778904	PASS
FAM135A	6	70412941	70561174	-0.368590549	PASS
FAM135B	8	138130023	138496822	0.113969953	PASS
FAM136A	2	70295975	70302090	-0.372959126	PASS
FAM13A	4	88725955	89111398	-0.011382299	PASS
FAM13B	5	137937960	138051961	-0.293443042	PASS
FAM13C	10	59246129	59363181	0.072405807	PASS
FAM149A	4	186104419	186172667	-0.462744716	PASS
FAM149B	10	73168166	73244504	0.072405807	PASS
FAM151A	1	54609182	54623556	0.033763446	PASS
FAM151B	5	80487969	80542563	-0.293443042	PASS
FAM153A	5	177707981	177783398	-0.150979337	PASS
FAM153B	5	176060689	176116015	-0.150979337	PASS
FAM153C	5	178006405	178055559	-0.150979337	PASS
FAM155A	13	107163510	107866735	-0.390786075	PASS
FAM155B	23	69505241	69532508	-0.012567603	PASS
FAM156A	23	52926402	52995472	-0.012567603	PASS
FAM160A	4	151409216	151663632	-0.011382299	PASS
FAM160A	11	6211335	6234711	-0.405444717	PASS
FAM160B	10	114821744	114899832	0.063874692	PASS

FAM160B2	8	22089159	22104898	-0.345962679	PASS
FAM161A	2	61824854	61854143	-0.372959126	PASS
FAM161B	14	73931501	73950414	0.060212819	PASS
FAM162A	3	122384176	122412334	0.313454204	suppress_segment_too_large
FAM162B	6	116752197	116765723	-0.368590549	PASS
FAM163A	1	179743163	179816198	-0.027073548	PASS
FAM163B	9	133578415	133586197	0.365190713	suppress_segment_too_large
FAM166A	9	137243584	137247770	0.365190713	suppress_segment_too_large
FAM166B	9	35561831	35563899	-0.310444659	PASS
FAM167A	8	11421463	11475908	-0.345962679	PASS
FAM167B	1	32247233	32248856	0.033763446	PASS
FAM168A	11	73400487	73598189	0.062969153	PASS
FAM168B	2	131047876	131093460	-0.475215623	PASS
FAM169A	5	74777574	74866951	-0.293443042	PASS
FAM169B	15	98437162	98547728	-0.697600509	PASS
FAM170A	5	119629559	119635822	-0.293443042	PASS
FAM170B	10	49131154	49134008	-0.404852538	PASS
FAM171A	10	15211643	15371062	0.039811807	PASS
FAM171A2	17	44353215	44363875	0.088516311	PASS
FAM171B	2	186693971	186765965	-0.169541924	PASS
FAM172A	5	93618069	94111699	-0.293443042	PASS
FAM173A	16	720581	722601	0.069936844	PASS
FAM173B	5	10226330	10249897	0.055007813	PASS
FAM174A	5	100535305	100586741	-0.293443042	PASS
FAM174B	15	92617443	92809884	-0.697600509	PASS
FAM177A	14	35044907	35113130	0.060212819	PASS
FAM177B	1	222737207	222750805	-0.256698369	PASS
FAM178B	2	96875882	96986592	0.048238121	PASS
FAM180A	7	135728348	135748846	-0.388946609	PASS
FAM180B	11	47586693	47589194	0.117376172	PASS
FAM181A	14	93918894	93929608	-0.192197564	PASS
FAM181B	11	82729941	82733864	0.062969153	PASS
FAM183A	1	43145153	43156396	0.033763446	PASS
FAM184A	6	118959763	119149387	-0.368590549	PASS
FAM184B	4	17629306	17781512	0.279089364	PASS
FAM185A	7	102748971	102809225	-0.388946609	PASS
FAM186A	12	50326230	50396622	-0.202191512	PASS
FAM186B	12	49582885	49605639	-0.202191512	PASS
FAM187A	17	44899712	44905390	0.088516311	PASS
FAM187B	19	35224800	35228729	0.093487731	suppress_segment_too_large
FAM189A	15	29120254	29570723	-0.396255771	PASS
FAM189A2	9	69324567	69392558	0.365190713	suppress_segment_too_large
FAM189B	1	155247205	155255483	0.103015788	PASS
FAM192A	16	57152466	57186116	-0.371357732	PASS
FAM193A	4	2536631	2732565	0.279089364	PASS
FAM193B	5	177519788	177554541	-0.150979337	PASS

FAM198A	3	42979267	43060211	-0.234617007	PASS
FAM198B	4	158124474	158173318	-0.011382299	PASS
FAM199X	23	104166620	104195902	-0.012567603	PASS
FAM19A1	3	68004216	68545625	-0.234617007	PASS
FAM19A2	12	61708259	62279150	-0.202191512	PASS
FAM19A3	1	112720419	112727235	0.033763446	PASS
FAM19A4	3	68731766	68953297	-0.234617007	PASS
FAM19A5	22	48489460	48850912	-0.808211634	PASS
FAM200A	7	99546308	99558536	-0.262778904	PASS
FAM200B	4	15681662	15705565	0.279089364	PASS
FAM204A	10	118297930	118342328	0.063874692	PASS
FAM205A	9	34723055	34729467	-0.310444659	PASS
FAM205C	9	34889064	34895778	-0.310444659	PASS
FAM206A	9	108934181	108950744	0.365190713	suppress_segment_too_large
FAM207A	21	44940010	44976989	-0.064425456	suppress_segment_too_large
FAM208A	3	56620133	56683237	-0.234617007	PASS
FAM208B	10	5684838	5763740	0.039811807	PASS
FAM209A	20	56517187	56526142	-0.168668583	PASS
FAM209B	20	56533246	56536520	-0.168668583	PASS
FAM20A	17	68535113	68601389	0.088516311	PASS
FAM20B	1	179025804	179076562	-0.027073548	PASS
FAM20C	7	192969	260745	-0.69513118	PASS
FAM210A	18	13663347	13726663	-0.052305056	suppress_segment_too_large
FAM210B	20	56358915	56368663	-0.168668583	PASS
FAM214A	15	52581317	52709817	-0.396255771	PASS
FAM214B	9	35104112	35116341	-0.310444659	PASS
FAM216A	12	110468364	110490385	0.202141228	PASS
FAM216B	13	42781550	42791549	-0.390786075	PASS
FAM217A	6	4049434	4087344	0.048820648	PASS
FAM217B	20	59933764	59948680	-0.168668583	PASS
FAM218A	4	164956948	164959122	-0.011382299	PASS
FAM219A	9	34398184	34458570	-0.310444659	PASS
FAM219B	15	74899987	74907121	-0.697600509	PASS
FAM220A	7	6329409	6348981	-0.69513118	PASS
FAM221A	7	23680130	23703249	-0.69513118	PASS
FAM221B	9	35816391	35828747	-0.310444659	PASS
FAM222A	12	109714228	109770507	0.202141228	PASS
FAM222B	17	28755978	28855232	0.060555011	PASS
FAM227A	22	38578120	38656629	-0.575930959	PASS
FAM227B	15	49326962	49620931	-0.396255771	PASS
FAM228A	2	24175069	24200849	0.040498426	PASS
FAM228B	2	24076526	24169640	0.040498426	PASS
FAM229A	1	32361270	32364278	0.033763446	PASS
FAM229B	6	112087599	112102790	-0.368590549	PASS
FAM234A	16	234546	268971	0.069936844	PASS
FAM234B	12	13044284	13142521	0.362961408	suppress_segment_too_large

FAM236C	23	72912615	72913401	-0.012567603	PASS
FAM236D	23	72807425	72808210	-0.012567603	PASS
FAM237A	2	206642412	206649011	0.025928102	PASS
FAM240A	3	46612435	46626543	-0.234617007	PASS
FAM241A	4	112145397	112195256	-0.011382299	PASS
FAM241B	10	69630251	69633599	0.072405807	PASS
FAM24A	10	122910701	122913111	0.063874692	PASS
FAM24B	10	122849078	122879641	0.063874692	PASS
FAM25A	10	87020306	87024730	-0.292453993	PASS
FAM25C	10	47995355	47999791	-0.404852538	PASS
FAM32A	19	16185380	16192046	0.093487731	suppress_segment_too_large
FAM3A	23	154506159	154516242	-0.012567603	PASS
FAM3B	21	41304212	41357431	-0.064425456	suppress_segment_too_large
FAM3C	7	121348851	121396364	-0.388946609	PASS
FAM3D	3	58633946	58666848	-0.234617007	PASS
FAM43A	3	194686544	194689037	0.326834516	PASS
FAM43B	1	20552439	20555010	0.033763446	PASS
FAM45A	10	119104086	119137984	0.063874692	PASS
FAM47A	23	34129756	34132314	-0.012567603	PASS
FAM47B	23	34942796	34944915	-0.012567603	PASS
FAM47C	23	37008397	37011666	-0.012567603	PASS
FAM47E	4	76214040	76283780	-0.011382299	PASS
FAM47E-S	4	76251721	76311129	-0.011382299	PASS
FAM49A	2	16549459	16666331	0.040498426	PASS
FAM49B	8	129839593	130017129	0.113969953	PASS
FAM50A	23	154444126	154450654	-0.012567603	PASS
FAM50B	6	3849373	3851320	0.048820648	PASS
FAM53A	4	1617915	1684302	0.279089364	PASS
FAM53B	10	124619292	124744269	0.063874692	PASS
FAM53C	5	138331935	138349729	-0.293443042	PASS
FAM57A	17	732412	742972	0.128406487	PASS
FAM57B	16	30024427	30052978	0.069936844	PASS
FAM69A	1	92832737	92961522	0.033763446	PASS
FAM69B	9	136712570	136724050	0.365190713	suppress_segment_too_large
FAM69C	18	74434099	74457944	-0.376397843	PASS
FAM71A	1	212624474	212626778	-0.256698369	PASS
FAM71B	5	157161846	157166264	-0.293443042	PASS
FAM71C	12	99647753	99650046	0.202141228	PASS
FAM71D	14	67189393	67228550	0.060212819	PASS
FAM71E1	19	50466785	50476753	-0.016761391	PASS
FAM71E2	19	55354908	55363260	0.121336758	PASS
FAM71F1	7	128709061	128731743	-0.388946609	PASS
FAM71F2	7	128672288	128687872	-0.388946609	PASS
FAM72A	1	206186179	206204414	-0.256698369	PASS
FAM72B	1	121167646	121185539	-0.157385092	PASS
FAM72C	1	143955364	143971965	-0.157385092	PASS

FAM72D	1	145096000	145112696	-0.157385092	PASS
FAM76A	1	27725979	27763122	0.033763446	PASS
FAM76B	11	95768942	95790409	0.062969153	PASS
FAM78A	9	131258076	131276547	0.365190713	suppress_segment_too_large
FAM78B	1	166057426	166166969	-0.027073548	PASS
FAM81A	15	59372693	59523549	-0.697600509	PASS
FAM81B	5	95391344	95450454	-0.293443042	PASS
FAM83A	8	123178960	123210079	0.279445683	PASS
FAM83B	6	54846771	54942022	0.048820648	PASS
FAM83C	20	35285731	35292401	-0.168668583	PASS
FAM83D	20	38926312	38953106	-0.168668583	PASS
FAM83E	19	48600810	48614854	0.14996833	PASS
FAM83F	22	39994949	40043529	-0.575930959	PASS
FAM83G	17	18968789	19004804	0.024610076	PASS
FAM83H	8	143723933	143733801	0.307788765	PASS
FAM84A	2	14632686	14650814	0.040498426	PASS
FAM84B	8	126552442	126558393	0.113969953	PASS
FAM86B1	8	12182096	12194133	-0.345962679	PASS
FAM86B2	8	12425614	12436343	-0.345962679	PASS
FAM86C1	11	71787510	71801236	0.062969153	PASS
FAM89A	1	231018958	231040246	-0.256698369	PASS
FAM89B	11	65572349	65574198	0.182439925	suppress_segment_too_large
FAM8A1	6	17600355	17611719	0.048820648	PASS
FAM90A1	12	8221260	8227618	-0.086128028	PASS
FAM91A1	8	123768456	123815452	0.279445683	PASS
FAM92A	8	93698561	93731527	0.279445683	PASS
FAM92B	16	85098358	85112508	-0.371357732	PASS
FAM95C	9	38540569	38577207	-0.310444659	PASS
FAM98A	2	33583658	33599382	0.040498426	PASS
FAM98B	15	38454127	38487710	-0.396255771	PASS
FAM98C	19	38403135	38409088	0.093487731	suppress_segment_too_large
FAM9A	23	8790795	8801383	-0.012567603	PASS
FAM9B	23	9024232	9164639	-0.012567603	PASS
FAM9C	23	13035618	13044682	-0.012567603	PASS
FAN1	15	30903852	30943108	-0.396255771	PASS
FANCA	16	89737549	89816657	-0.371357732	PASS
FANCB	23	14835961	14873069	-0.012567603	PASS
FANCC	9	95099054	95426796	0.365190713	suppress_segment_too_large
FANCD2	3	10026414	10101930	0.311018244	suppress_segment_too_large
FANCD2O	3	10081317	10108231	0.311018244	suppress_segment_too_large
FANCE	6	35452356	35467103	0.048820648	PASS
FANCF	11	22622890	22625841	-0.405444717	PASS
FANCG	9	35073835	35080016	-0.310444659	PASS
FANCI	15	89243949	89317261	-0.697600509	PASS
FANCL	2	58159243	58241372	-0.372959126	PASS
FANCM	14	45135940	45200890	0.060212819	PASS

FANK1	10	125896539	126009592	0.063874692	PASS
FAP	2	162170684	162245151	0.039726562	PASS
FAR1	11	13668670	13732346	-0.405444717	PASS
FAR2	12	29149103	29340980	0.362961408	suppress_segment_too_large
FARP1	13	98142562	98455176	-0.390786075	PASS
FARS2	6	5261044	5829192	0.048820648	PASS
FARSA	19	12922479	12934037	0.093487731	suppress_segment_too_large
FARSB	2	222570536	222656337	0.025928102	PASS
FAS	10	88990582	89015785	-1.64589449	RESCUE
FASLG	1	172659018	172666874	-0.027073548	PASS
FASN	17	82078333	82098332	0.088516311	PASS
FASTK	7	151076593	151080866	-0.388946609	PASS
FASTKD1	2	169529749	169573875	0.039726562	PASS
FASTKD2	2	206765357	206792509	0.025928102	PASS
FASTKD3	5	7859159	7869037	0.055007813	PASS
FASTKD5	20	3146519	3159897	-0.168668583	PASS
FAT1	4	186587783	186726722	-0.462744716	PASS
FAT2	5	151504093	151568944	-0.293443042	PASS
FAT3	11	92352096	92896470	0.062969153	PASS
FAT4	4	125316399	125492932	-0.011382299	PASS
FATE1	23	151716035	151723194	-0.012567603	PASS
FAU	11	65120628	65122473	0.182439925	suppress_segment_too_large
FAXC	6	99271169	99350062	-0.368590549	PASS
FAXDC2	5	154818491	154859252	-0.293443042	PASS
FBF1	17	75909574	75941140	0.088516311	PASS
FBH1	10	5890203	5937594	0.039811807	PASS
FBL	19	39834458	39846414	0.093487731	suppress_segment_too_large
FBLIM1	1	15756607	15786594	0.033763446	PASS
FBLL1	5	168529116	168530634	-0.150979337	PASS
FBLN1	22	45502238	45601135	-0.808211634	PASS
FBLN2	3	13549131	13638422	0.311018244	suppress_segment_too_large
FBLN5	14	91869412	91947987	-0.192197564	PASS
FBLN7	2	112138385	112188216	-0.010901494	PASS
FBN1	15	48408306	48645849	-0.396255771	PASS
FBN2	5	128257909	128659185	-0.293443042	PASS
FBN3	19	8065402	8149846	0.079632875	PASS
FBP1	9	94603133	94640249	0.365190713	suppress_segment_too_large
FBP2	9	94558720	94593793	0.365190713	suppress_segment_too_large
FBRS	16	30658431	30670814	0.069936844	PASS
FBRSL1	12	132489551	132585188	0.270848837	PASS
FBXL12	19	9810267	9827816	0.093487731	suppress_segment_too_large
FBXL13	7	102813230	103074843	-0.388946609	PASS
FBXL14	12	1565993	1594165	-0.086128028	PASS
FBXL15	10	102419189	102423136	-0.367947924	PASS
FBXL16	16	692498	705829	0.069936844	PASS
FBXL17	5	107859035	108382098	-0.293443042	PASS

FBXL18	7	5431335	5513798	-0.69513118	PASS
FBXL19	16	30923055	30948783	0.069936844	PASS
FBXL2	3	33277025	33403662	0.311018244	suppress_segment_too_large
FBXL20	17	39252644	39402523	0.060555011	PASS
FBXL22	15	63597353	63602428	-0.697600509	PASS
FBXL3	13	76992598	77027195	-0.390786075	PASS
FBXL4	6	98868538	98948006	-0.368590549	PASS
FBXL5	4	15604539	15681679	0.279089364	PASS
FBXL6	8	144355431	144359376	0.307788765	PASS
FBXL7	5	15500196	15939795	0.055007813	PASS
FBXL8	16	67159931	67164570	-0.371357732	PASS
FBXO10	9	37510892	37576349	-0.310444659	PASS
FBXO11	2	47789316	47905793	0.040498426	PASS
FBXO15	18	74073353	74147865	-0.376397843	PASS
FBXO16	8	28348287	28490318	-0.345962679	PASS
FBXO17	19	38941401	38975910	0.093487731	suppress_segment_too_large
FBXO2	1	11637018	11655785	0.373964873	suppress_segment_too_large
FBXO21	12	117141988	117190531	0.202141228	PASS
FBXO22	15	75903859	75942510	-0.697600509	PASS
FBXO24	7	100583982	100601117	-0.262778904	PASS
FBXO25	8	406428	477967	-0.313874214	PASS
FBXO27	19	38990714	39032785	0.093487731	suppress_segment_too_large
FBXO28	1	224114087	224162047	-0.256698369	PASS
FBXO3	11	33740939	33774543	-0.405444717	PASS
FBXO30	6	145793502	145814753	-0.035448111	PASS
FBXO31	16	87326987	87392142	-0.371357732	PASS
FBXO32	8	123497889	123541206	0.279445683	PASS
FBXO33	14	39397669	39432500	0.060212819	PASS
FBXO34	14	55271303	55361918	0.060212819	PASS
FBXO36	2	229922302	230013109	0.025928102	PASS
FBXO38	5	148383935	148442836	-0.293443042	PASS
FBXO39	17	6776223	6797101	0.128406487	PASS
FBXO4	5	41925254	41941743	-0.293443042	PASS
FBXO40	3	121593119	121630295	0.313454204	suppress_segment_too_large
FBXO41	2	73254682	73284431	-0.372959126	PASS
FBXO42	1	16246839	16352454	0.033763446	PASS
FBXO43	8	100133360	100145800	0.279445683	PASS
FBXO44	1	11654375	11663327	0.373964873	suppress_segment_too_large
FBXO45	3	196568611	196589059	0.326834516	PASS
FBXO46	19	45710629	45730904	0.14996833	PASS
FBXO47	17	38936432	38967402	0.060555011	PASS
FBXO48	2	68459419	68467258	-0.372959126	PASS
FBXO5	6	152970519	152983579	-0.035448111	PASS
FBXO6	1	11664124	11674354	0.373964873	suppress_segment_too_large
FBXO7	22	32474676	32498829	-0.575930959	PASS
FBXO8	4	174236658	174284264	-0.011382299	PASS

FBXO9	6	53051991	53100873	0.048820648	PASS
FBXW10	17	18744024	18779349	0.024610076	PASS
FBXW11	5	171861549	172006873	-0.150979337	PASS
FBXW12	3	48372219	48401259	-0.234617007	PASS
FBXW2	9	120751978	120793412	0.365190713	suppress_segment_too_large
FBXW4	10	101610664	101695295	-0.367947924	PASS
FBXW5	9	136940435	136944696	0.365190713	suppress_segment_too_large
FBXW7	4	152320544	152536063	-0.011382299	PASS
FBXW8	12	116910956	117031148	0.202141228	PASS
FBXW9	19	12688053	12696643	0.093487731	suppress_segment_too_large
FCAMR	1	206957965	206970625	-0.256698369	PASS
FCAR	19	54874248	54890472	-0.146906334	PASS
FCER1A	1	159289714	159308224	-0.467855874	PASS
FCER1G	1	161215234	161220699	-0.027073548	PASS
FCER2	19	7688758	7702146	0.079632875	PASS
FCF1	14	74713144	74738620	-0.192197564	PASS
FCGBP	19	39863323	39934626	0.093487731	suppress_segment_too_large
FCGR1A	1	149782671	149792518	-0.157385092	PASS
FCGR1B	1	121087345	121096310	-0.157385092	PASS
FCGR2A	1	161505430	161524013	-0.027073548	PASS
FCGR2B	1	161663147	161678654	-0.027073548	PASS
FCGR3A	1	161541759	161550737	-0.027073548	PASS
FCGR3B	1	161623196	161631963	-0.027073548	PASS
FCGRT	19	49506816	49526333	0.14996833	PASS
FCHO1	19	17747718	17788568	0.093487731	suppress_segment_too_large
FCHO2	5	72955981	73090522	-0.293443042	PASS
FCHSD1	5	141639302	141651419	-0.293443042	PASS
FCHSD2	11	72836745	73142261	0.062969153	PASS
FCMR	1	206904386	206923247	-0.256698369	PASS
FCN1	9	134905890	134917963	0.365190713	suppress_segment_too_large
FCN2	9	134880812	134887520	0.365190713	suppress_segment_too_large
FCN3	1	27369112	27374824	0.033763446	PASS
FCRL1	1	157794403	157820105	-0.467855874	PASS
FCRL2	1	157745733	157777132	-0.467855874	PASS
FCRL3	1	157674321	157700857	-0.467855874	PASS
FCRL4	1	157573749	157598080	-0.467855874	PASS
FCRL5	1	157513377	157552520	0.103015788	PASS
FCRL6	1	159800511	159816251	-0.467855874	PASS
FCRLA	1	161706972	161714352	-0.027073548	PASS
FCRLB	1	161721563	161728143	-0.027073548	PASS
FDCSP	4	70226071	70235252	-0.011382299	PASS
FDFT1	8	11795573	11839309	-0.345962679	PASS
FDPS	1	155308748	155320666	0.103015788	PASS
FDX1	11	110429883	110464881	-0.356188624	PASS
FDX2	19	10310045	10316015	0.093487731	suppress_segment_too_large
FDXACB1	11	111874056	111881243	-0.356188624	PASS

FDXR	17	74862497	74873031	0.088516311	PASS
FECH	18	57548283	57586772	-0.376397843	PASS
FEM1A	19	4791681	4801273	0.079632875	PASS
FEM1B	15	68277803	68295865	-0.697600509	PASS
FEM1C	5	115520908	115544894	-0.293443042	PASS
FEN1	11	61792637	61797244	0.182439925	suppress_segment_too_large
FER	5	108747822	109196841	-0.293443042	PASS
FER1L5	2	96642737	96704887	0.048238121	PASS
FER1L6	8	123851987	124120061	0.279445683	PASS
FERD3L	7	19144782	19145421	-0.69513118	PASS
FERMT1	20	6074845	6123544	-0.168668583	PASS
FERMT2	14	52857268	52952435	0.060212819	PASS
FERMT3	11	64206678	64223886	0.182439925	suppress_segment_too_large
FES	15	90883695	90895776	-0.697600509	PASS
FETUB	3	186635969	186653141	0.318278996	suppress_segment_too_large
FEV	2	218981087	218985657	0.025928102	PASS
FEZ1	11	125442881	125592568	-0.419612865	PASS
FEZ2	2	36531805	36646087	0.040498426	PASS
FEZF1	7	122301394	122310691	-0.388946609	PASS
FEZF2	3	62369681	62374324	-0.234617007	PASS
FFAR1	19	35351552	35353862	0.093487731	suppress_segment_too_large
FFAR2	19	35443907	35451767	0.093487731	suppress_segment_too_large
FFAR3	19	35358460	35360485	0.093487731	suppress_segment_too_large
FFAR4	10	93566665	93604480	-0.39678585	PASS
FGA	4	154583126	154590766	-0.011382299	PASS
FGB	4	154562956	154571086	-0.011382299	PASS
FGD1	23	54445454	54496166	-0.012567603	PASS
FGD2	6	37005646	37029070	0.048820648	PASS
FGD3	9	92947451	93036236	0.365190713	suppress_segment_too_large
FGD4	12	32399529	32646050	0.362961408	suppress_segment_too_large
FGD5	3	14810853	14934565	0.311018244	suppress_segment_too_large
FGD6	12	95076749	95217482	0.202141228	PASS
FGF1	5	142592178	142698070	-0.293443042	PASS
FGF10	5	44303544	44389706	-0.293443042	PASS
FGF11	17	7438273	7444937	0.128406487	PASS
FGF12	3	192139395	192767764	-0.627320105	PASS
FGF13	23	138614731	139222777	-0.012567603	PASS
FGF14	13	101710804	102402457	-0.390786075	PASS
FGF16	23	77447405	77457278	-0.012567603	PASS
FGF17	8	22042398	22048809	-0.345962679	PASS
FGF18	5	171419656	171457623	-0.150979337	PASS
FGF19	11	69698232	69704642	0.182439925	suppress_segment_too_large
FGF2	4	122826708	122898236	-0.011382299	PASS
FGF20	8	16992169	17002181	-0.345962679	PASS
FGF21	19	48755559	48758333	0.14996833	PASS
FGF22	19	639879	644371	0.079632875	PASS

FGF23	12	4368227	4379728	-0.086128028	PASS
FGF3	11	69809969	69819024	0.182439925	suppress_segment_too_large
FGF4	11	69771016	69775403	0.182439925	suppress_segment_too_large
FGF5	4	80266599	80336680	-0.011382299	PASS
FGF6	12	4428155	4445614	-0.086128028	PASS
FGF7	15	49423096	49488775	-0.396255771	PASS
FGF8	10	101770130	101780369	-0.367947924	PASS
FGF9	13	21671383	21704498	-0.390786075	PASS
FGFBP1	4	15935569	15938740	0.279089364	PASS
FGFBP2	4	15960243	15969309	0.279089364	PASS
FGFBP3	10	91906589	91909483	-0.39678585	PASS
FGFR1	8	38400215	38468834	-0.201142258	PASS
FGFR1OP	6	166999182	167094789	-0.035448111	PASS
FGFR1OP2	12	26938383	26966650	0.362961408	suppress_segment_too_large
FGFR2	10	121478334	121598458	0.063874692	PASS
FGFR3	4	1793293	1808872	0.279089364	PASS
FGFR4	5	177086886	177098144	-0.150979337	PASS
FGFRL1	4	1009936	1026897	0.279089364	PASS
FGG	4	154604134	154612967	-0.011382299	PASS
FGGY	1	59296638	59810647	0.033763446	PASS
FGL1	8	17864380	17910365	-0.345962679	PASS
FGL2	7	77193371	77199848	-0.262778904	PASS
FGR	1	27612064	27635277	0.033763446	PASS
FH	1	241497603	241519761	-0.648598641	PASS
FHAD1	1	15247272	15400283	0.033763446	PASS
FHDC1	4	152936352	152979696	-0.011382299	PASS
FHIT	3	59749310	61251459	-0.234617007	PASS
FHL1	23	136146702	136211359	-0.012567603	PASS
FHL2	2	105357712	105438513	-0.532032081	PASS
FHL3	1	37996770	38005606	0.033763446	PASS
FHL5	6	96562548	96616636	-0.368590549	PASS
FHOD1	16	67229387	67247658	-0.371357732	PASS
FHOD3	18	36297714	36780055	-0.376397843	PASS
FIBCD1	9	130902438	130939286	0.365190713	suppress_segment_too_large
FIBIN	11	26994184	26996121	-0.405444717	PASS
FIBP	11	65883741	65888539	0.182439925	suppress_segment_too_large
FICD	12	108515185	108525837	0.202141228	PASS
FIG4	6	109691312	109825428	-0.368590549	PASS
FIGLA	2	70777310	70790643	-0.372959126	PASS
FIGN	2	163593396	163736012	0.039726562	PASS
FIGNL1	7	50444128	50542535	-0.750061359	PASS
FIGNL2	12	51817840	51848766	-0.202191512	PASS
FILIP1	6	75291859	75493738	-0.368590549	PASS
FILIP1L	3	99830141	100114513	0.313454204	suppress_segment_too_large
FIP1L1	4	53377643	53460861	-0.011382299	PASS
FIS1	7	101239458	101252316	-0.388946609	PASS

FITM1	14	24131275	24132849	0.060212819	PASS
FITM2	20	44302838	44311169	-0.168668583	PASS
FIZ1	19	55591371	55601970	0.121336758	PASS
FJX1	11	35618419	35620868	-0.405444717	PASS
FKBP10	17	41812680	41823217	0.060555011	PASS
FKBP11	12	48921518	48926474	-0.202191512	PASS
FKBP14	7	30010587	30026684	-0.69513118	PASS
FKBP15	9	113161006	113221361	0.365190713	suppress_segment_too_large
FKBP1A	20	1368978	1393172	-0.168668583	PASS
FKBP1B	2	24049701	24063681	0.040498426	PASS
FKBP1C	6	63211446	63213024	0.048820648	PASS
FKBP2	11	64241003	64244132	0.182439925	suppress_segment_too_large
FKBP3	14	45115600	45135319	0.060212819	PASS
FKBP4	12	2794953	2805423	-0.086128028	PASS
FKBP5	6	35573585	35728583	0.048820648	PASS
FKBP6	7	73328164	73358637	-0.262778904	PASS
FKBP7	2	178463664	178478600	0.039726562	PASS
FKBP8	19	18531751	18544077	0.093487731	suppress_segment_too_large
FKBP9	7	32957404	33006931	-0.69513118	PASS
FKBPL	6	32128707	32130291	0.048820648	PASS
FKRP	19	46746046	46776988	0.14996833	PASS
FKTN	9	105558130	105641118	0.365190713	suppress_segment_too_large
FLAD1	1	154983338	154993111	0.103015788	PASS
FLCN	17	17212212	17237188	0.024610076	PASS
FLG	1	152302175	152325203	0.103015788	PASS
FLG2	1	152348735	152360006	0.103015788	PASS
FLI1	11	128686535	128813267	-0.419612865	PASS
FLII	17	18244836	18258916	0.024610076	PASS
FLNA	23	154348524	154374638	-0.012567603	PASS
FLNB	3	58008400	58172251	-0.234617007	PASS
FLNC	7	128830377	128859274	-0.388946609	PASS
FLOT1	6	30727709	30742733	0.048820648	PASS
FLOT2	17	28879335	28897679	0.060555011	PASS
FLRT1	11	64103188	64119173	0.182439925	suppress_segment_too_large
FLRT2	14	85530144	85654426	-0.192197564	PASS
FLRT3	20	14322988	14337616	-0.168668583	PASS
FLT1	13	28300344	28495145	-0.390786075	PASS
FLT3	13	28003274	28100592	-0.390786075	PASS
FLT3LG	19	49474207	49486231	0.14996833	PASS
FLT4	5	180601506	180649624	-0.150979337	PASS
FLVCR1	1	212858255	212899363	-0.256698369	PASS
FLVCR2	14	75578617	75663214	-0.192197564	PASS
FLYWCH1	16	2911937	2951208	0.069936844	PASS
FLYWCH2	16	2883186	2899382	0.069936844	PASS
FMC1	7	139339457	139346319	-0.388946609	PASS
FMN1	15	32765545	33194733	-0.396255771	PASS

FMN2	1	240014348	240475189	-0.648598641	PASS
FMNL1	17	45221444	45247320	0.088516311	PASS
FMNL2	2	152335237	152649834	-0.475215623	PASS
FMNL3	12	49636499	49708165	-0.202191512	PASS
FMO1	1	171248471	171285978	-0.027073548	PASS
FMO2	1	171185208	171211230	-0.027073548	PASS
FMO3	1	171090877	171117819	-0.027073548	PASS
FMO4	1	171314208	171342084	-0.027073548	PASS
FMO5	1	147175351	147243050	-0.157385092	PASS
FMOD	1	203340628	203351758	-0.256698369	PASS
FMR1	23	147911951	147951125	-0.012567603	PASS
FMR1NB	23	147981329	148026667	-0.012567603	PASS
FN1	2	215360440	215436172	0.025928102	PASS
FN3K	17	82735575	82751197	0.088516311	PASS
FN3KRP	17	82716683	82730328	0.088516311	PASS
FNBP1	9	129887187	130043194	0.365190713	suppress_segment_too_large
FNBP1L	1	93448131	93554661	0.033763446	PASS
FNBP4	11	47716517	47767443	0.117376172	PASS
FNDC1	6	159169397	159272109	-0.035448111	PASS
FNDC10	1	1598012	1600096	0.373964873	suppress_segment_too_large
FNDC11	20	63547891	63556708	-0.168668583	PASS
FNDC3A	13	48975912	49209779	-0.390786075	PASS
FNDC3B	3	172039628	172401665	0.318278996	suppress_segment_too_large
FNDC4	2	27491883	27495245	0.040498426	PASS
FNDC5	1	32862268	32872482	0.033763446	PASS
FNDC7	1	108712657	108742740	0.033763446	PASS
FNDC8	17	35121579	35130732	0.060555011	PASS
FNDC9	5	157341600	157345721	-0.150979337	PASS
FNIP1	5	131641714	131797063	-0.293443042	PASS
FNIP2	4	158769138	158908049	-0.011382299	PASS
FNTA	8	43034194	43085788	-0.201142258	PASS
FNTB	14	64986720	65062652	0.060212819	PASS
FO393400.	20	32632183	32743567	-0.168668583	PASS
FO681492.	10	47750864	47763592	-0.404852538	PASS
FOCAD	9	20658309	20995955	-0.310444659	PASS
FOLH1	11	49146635	49208670	-0.621795272	PASS
FOLR1	11	72189558	72196323	0.062969153	PASS
FOLR2	11	72216601	72221950	0.062969153	PASS
FOLR3	11	72114869	72139892	0.062969153	PASS
FOPNL	16	15865720	15888625	0.069936844	PASS
FOS	14	75278774	75282230	-0.192197564	PASS
FOSB	19	45467995	45475179	0.14996833	PASS
FOSL1	11	65892049	65900573	0.182439925	suppress_segment_too_large
FOSL2	2	28392448	28417312	0.040498426	PASS
FOXA1	14	37589984	37596059	0.060212819	PASS
FOXA2	20	22581005	22585455	-0.168668583	PASS

FOXA3	19	45863989	45873797	0.14996833	PASS
FOXB1	15	60004222	60061730	-0.697600509	PASS
FOXB2	9	77019655	77020953	0.365190713	suppress_segment_too_large
FOXC1	6	1609972	1613897	0.048820648	PASS
FOXC2	16	86566829	86569728	-0.371357732	PASS
FOXD1	5	73444827	73448527	-0.293443042	PASS
FOXD2	1	47436017	47440691	0.033763446	PASS
FOXD3	1	63323041	63325126	0.033763446	PASS
FOXD4	9	116231	118204	-0.310444659	PASS
FOXD4L1	2	113498665	113501155	-0.010901494	PASS
FOXD4L3	9	68302867	68304905	-0.310444659	PASS
FOXD4L4	9	65736555	65738784	-0.310444659	PASS
FOXD4L5	9	65282101	65285209	-0.310444659	PASS
FOXD4L6	9	41126430	41128463	-0.310444659	PASS
FOXE1	9	97853254	97856715	0.365190713	suppress_segment_too_large
FOXE3	1	47416072	47418052	0.033763446	PASS
FOXF1	16	86510527	86515418	-0.371357732	PASS
FOXF2	6	1389576	1395603	0.048820648	PASS
FOXG1	14	28760330	28770277	0.060212819	PASS
FOXH1	8	144473412	144476335	0.307788765	PASS
FOXI1	5	170105897	170109725	-0.150979337	PASS
FOXI2	10	127737235	127741186	0.063874692	PASS
FOXI3	2	88446787	88452656	-0.340781246	PASS
FOXJ1	17	76136333	76141299	0.088516311	PASS
FOXJ2	12	8032703	8055503	-0.086128028	PASS
FOXJ3	1	42176539	42335877	0.033763446	PASS
FOXK1	7	4682309	4771443	-0.69513118	PASS
FOXK2	17	82519713	82644662	0.088516311	PASS
FOXL1	16	86576368	86582160	-0.371357732	PASS
FOXL2	3	138944224	138947140	0.313454204	suppress_segment_too_large
FOXL2NB	3	138947234	138953451	0.313454204	suppress_segment_too_large
FOXM1	12	2857681	2877155	-0.086128028	PASS
FOXN1	17	28506243	28538896	0.060555011	PASS
FOXN2	2	48314637	48379294	0.040498426	PASS
FOXN3	14	89124871	89619149	-0.192197564	PASS
FOXN4	12	109277979	109309220	0.202141228	PASS
FOXO1	13	40469953	40666597	-0.390786075	PASS
FOXO3	6	108559835	108684774	-0.368590549	PASS
FOXO4	23	71096197	71103535	-0.012567603	PASS
FOXO6	1	41361922	41383590	0.033763446	PASS
FOXP1	3	70952817	71583993	-0.234617007	PASS
FOXP2	7	114086327	114693772	-0.388946609	PASS
FOXP3	23	49250436	49264826	-0.012567603	PASS
FOXP4	6	41546426	41602384	0.048820648	PASS
FOXQ1	6	1312440	1314748	0.048820648	PASS
FOXR1	11	118971707	118981291	-0.356188624	PASS

FOXR2	23	55623400	55625325	-0.012567603	PASS
FOXRED1	11	126269055	126278131	-0.419612865	PASS
FOXRED2	22	36487190	36507101	-0.575930959	PASS
FOXS1	20	31844301	31845619	-0.168668583	PASS
FP565260.1	21	5130871	5154734	-0.304975024	PASS
FP565260.2	21	5116343	5133805	-0.304975024	PASS
FP565260.3	21	5022493	5040666	-0.304975024	PASS
FPGS	9	127794597	127814327	0.365190713	suppress_segment_too_large
FPGT	1	74198212	74234086	0.033763446	PASS
FPGT-TNN	1	74198235	74544393	0.033763446	PASS
FPR1	19	51745172	51804110	-0.016761391	PASS
FPR2	19	51752026	51770526	-0.016761391	PASS
FPR3	19	51795163	51826189	-0.016761391	PASS
FRA10AC1	10	93667883	93702572	-0.39678585	PASS
FRAS1	4	78057570	78544269	-0.011382299	PASS
FRAT1	10	97319267	97321915	-0.367947924	PASS
FRAT2	10	97332497	97334709	-0.367947924	PASS
FREM1	9	14734666	14910995	-0.310444659	PASS
FREM2	13	38687129	38887131	-0.390786075	PASS
FREM3	4	143577302	143700675	-0.011382299	PASS
FRG1	4	189940788	189963204	-0.462744716	PASS
FRG2	4	190024351	190027257	-0.462744716	PASS
FRG2B	10	133623895	133626795	0.063874692	PASS
FRG2C	3	75664330	75667220	-0.234617007	PASS
FRK	6	115931149	116060758	-0.368590549	PASS
FRMD1	6	168053166	168101511	-0.035448111	PASS
FRMD3	9	83242990	83538546	0.365190713	suppress_segment_too_large
FRMD4A	10	13643706	14462142	0.039811807	PASS
FRMD4B	3	69169990	69542583	-0.234617007	PASS
FRMD5	15	43870761	44195252	-0.396255771	PASS
FRMD6	14	51489100	51730727	0.060212819	PASS
FRMD7	23	132076993	132128020	-0.012567603	PASS
FRMD8	11	65386599	65413525	0.182439925	suppress_segment_too_large
FRMPD1	9	37651000	37746904	-0.310444659	PASS
FRMPD2	10	48153088	48274870	-0.404852538	PASS
FRMPD3	23	107522450	107605251	-0.012567603	PASS
FRMPD4	23	12138466	12724523	-0.012567603	PASS
FRRS1	1	99708632	99766631	0.033763446	PASS
FRRS1L	9	109130293	109167295	0.365190713	suppress_segment_too_large
FRS2	12	69470349	69579789	-0.202191512	PASS
FRS3	6	41770176	41786542	0.048820648	PASS
FRY	13	31846713	32299122	-0.390786075	PASS
FRYL	4	48497361	48780322	-0.011382299	PASS
FRZB	2	182833275	182867162	-0.169541924	PASS
FSBP	8	94372170	94436952	0.279445683	PASS
FSCB	14	44504342	44507279	0.060212819	PASS

FSCN1	7	5592823	5606655	-0.69513118	PASS
FSCN2	17	81528396	81537130	0.088516311	PASS
FSCN3	7	127591409	127602144	-0.388946609	PASS
FSD1	19	4304600	4323843	0.079632875	PASS
FSD1L	9	105447796	105552433	0.365190713	suppress_segment_too_large
FSD2	15	82755362	82806070	-0.697600509	PASS
FSHB	11	30231016	30235261	-0.405444717	PASS
FSHR	2	48962157	49154537	0.040498426	PASS
FSIP1	15	39588357	39782830	-0.396255771	PASS
FSIP2	2	185738895	185833290	-0.169541924	PASS
FST	5	53480409	53487134	-0.293443042	PASS
FSTL1	3	120392293	120451253	0.313454204	suppress_segment_too_large
FSTL3	19	676365	683399	0.079632875	PASS
FSTL4	5	133196455	133612564	-0.293443042	PASS
FSTL5	4	161383897	162164035	-0.011382299	PASS
FTCD	21	46136262	46155567	-0.064425456	suppress_segment_too_large
FTCDNL1	2	199760544	199851173	0.025928102	PASS
FTH1	11	61959718	61967660	0.182439925	suppress_segment_too_large
FTHL17	23	31071241	31072053	-0.012567603	PASS
FTL	19	48965301	48966878	0.14996833	PASS
FTMT	5	121851955	121852833	-0.293443042	PASS
FTO	16	53701692	54158512	-0.371357732	PASS
FTSJ1	23	48476021	48486364	-0.012567603	PASS
FTSJ3	17	63819433	63830012	0.088516311	PASS
FUBP1	1	77944055	77979110	0.033763446	PASS
FUBP3	9	130578965	130638352	0.365190713	suppress_segment_too_large
FUCA1	1	23845077	23868294	0.033763446	PASS
FUCA2	6	143494811	143511690	-0.035448111	PASS
FUK	16	70454421	70480274	-0.371357732	PASS
FUNDC1	23	44523639	44543001	-0.012567603	PASS
FUNDC2	23	155025980	155060303	-0.012567603	PASS
FUOM	10	133355154	133358035	0.063874692	PASS
FURIN	15	90868592	90883458	-0.697600509	PASS
FUS	16	31180110	31194871	0.069936844	PASS
FUT1	19	48748011	48755390	0.14996833	PASS
FUT10	8	33370824	33473422	-0.345962679	PASS
FUT11	10	73772291	73780251	0.072405807	PASS
FUT2	19	48695971	48705950	0.14996833	PASS
FUT3	19	5842888	5851474	0.079632875	PASS
FUT4	11	94543840	94549898	0.062969153	PASS
FUT5	19	5865826	5870540	0.079632875	PASS
FUT6	19	5830610	5839731	0.079632875	PASS
FUT7	9	137030174	137033010	0.365190713	suppress_segment_too_large
FUT8	14	65410592	65744121	0.060212819	PASS
FUT9	6	96015984	96215612	-0.368590549	PASS
FUZ	19	49806869	49817376	0.14996833	PASS

FXN	9	69035259	69120427	-0.310444659	PASS
FXR1	3	180868141	180982753	0.318278996	suppress_segment_too_large
FXR2	17	7591230	7614871	0.128406487	PASS
FXYD1	19	35138808	35143109	0.093487731	suppress_segment_too_large
FXYD2	11	117800844	117828698	-0.356188624	PASS
FXYD3	19	35115879	35124324	0.093487731	suppress_segment_too_large
FXYD4	10	43371642	43376335	-0.404852538	PASS
FXYD5	19	35154730	35169883	0.093487731	suppress_segment_too_large
FXYD6	11	117836976	117877486	-0.356188624	PASS
FXYD6-FX	11	117820163	117876667	-0.356188624	PASS
FXYD7	19	35143250	35154301	0.093487731	suppress_segment_too_large
FYB1	5	39105255	39274528	0.055007813	PASS
FYB2	1	56718804	56819696	0.033763446	PASS
FYCO1	3	45917899	45995824	-0.234617007	PASS
FYN	6	111660332	111873452	-0.368590549	PASS
FYTTD1	3	197737179	197787596	0.326834516	PASS
FZD1	7	91264364	91271326	-0.262778904	PASS
FZD10	12	130162459	130165740	-0.240609783	PASS
FZD2	17	44557459	44559570	0.088516311	PASS
FZD3	8	28494205	28574268	-0.345962679	PASS
FZD4	11	86945679	86955391	0.062969153	PASS
FZD5	2	207762586	207769563	0.025928102	PASS
FZD6	8	103298433	103332866	0.279445683	PASS
FZD7	2	202034587	202038445	0.025928102	PASS
FZD8	10	35638249	35642278	0.039811807	PASS
FZD9	7	73433783	73436120	-0.262778904	PASS
FZR1	19	3506273	3538330	0.079632875	PASS
G0S2	1	209675420	209676388	-0.256698369	PASS
G2E3	14	30559123	30620063	0.060212819	PASS
G3BP1	5	151771045	151812785	-0.293443042	PASS
G3BP2	4	75642782	75724525	-0.011382299	PASS
G6PC	17	42900797	42913369	0.088516311	PASS
G6PC2	2	168901240	168910000	0.039726562	PASS
G6PC3	17	44070735	44076344	0.088516311	PASS
G6PD	23	154531390	154547572	-0.012567603	PASS
GAA	17	80101556	80119879	0.088516311	PASS
GAB1	4	143336762	143474568	-0.011382299	PASS
GAB2	11	78215297	78418348	0.062969153	PASS
GAB3	23	154675249	154751583	-0.012567603	PASS
GAB4	22	16961936	17008222	-0.575930959	PASS
GABARAI	17	7240014	7242770	0.128406487	PASS
GABARAI	12	10212458	10223130	0.362961408	suppress_segment_too_large
GABARAI	16	75566351	75577881	-0.371357732	PASS
GABBR1	6	29555629	29633976	0.048820648	PASS
GABBR2	9	98288082	98709197	0.365190713	suppress_segment_too_large
GABPA	21	25734570	25772460	0.12860881	suppress_segment_too_large

GABPB1	15	50275392	50355408	-0.396255771	PASS
GABPB2	1	151070578	151125542	0.103015788	PASS
GABRA1	5	161847063	161899981	-0.150979337	PASS
GABRA2	4	46248427	46475230	-0.011382299	PASS
GABRA3	23	152166234	152451358	-0.012567603	PASS
GABRA4	4	46918900	46994407	-0.011382299	PASS
GABRA5	15	26866363	26949207	-0.396255771	PASS
GABRA6	5	161547063	161702593	-0.150979337	PASS
GABRB1	4	46993723	47426444	-0.011382299	PASS
GABRB2	5	161288429	161549044	-0.150979337	PASS
GABRB3	15	26543546	26939539	-0.396255771	PASS
GABRD	1	2019298	2030758	0.373964873	suppress_segment_too_large
GABRE	23	151953124	151974680	-0.012567603	PASS
GABRG1	4	46035769	46124081	-0.011382299	PASS
GABRG2	5	162000057	162162977	-0.150979337	PASS
GABRG3	15	26971282	27541991	-0.396255771	PASS
GABRP	5	170763350	170814047	-0.150979337	PASS
GABRQ	23	152638183	152657534	-0.012567603	PASS
GABRR1	6	89177501	89231278	-0.368590549	PASS
GABRR2	6	89257208	89315299	-0.368590549	PASS
GABRR3	3	97986673	98035304	0.313454204	suppress_segment_too_large
GAD1	2	170813213	170861151	0.039726562	PASS
GAD2	10	26216307	26304558	0.039811807	PASS
GADD45A	1	67685061	67688338	0.033763446	PASS
GADD45B	19	2476122	2478259	0.079632875	PASS
GADD45G	9	89605013	89606555	0.365190713	suppress_segment_too_large
GADD45G	19	12953119	12957236	0.093487731	suppress_segment_too_large
GADL1	3	30726200	30894765	0.311018244	suppress_segment_too_large
GAGE1	23	49589496	49608536	-0.012567603	PASS
GAGE10	23	49303669	49319844	-0.012567603	PASS
GAGE12J	23	49322057	49329384	-0.012567603	PASS
GAGE13	23	49331616	49338952	-0.012567603	PASS
GAGE2A	23	49589529	49596827	-0.012567603	PASS
GAGE2E	23	49341192	49345922	-0.012567603	PASS
GAK	4	849276	932373	0.279089364	PASS
GAL	11	68683779	68691175	0.182439925	suppress_segment_too_large
GAL3ST1	22	30554635	30574587	-0.575930959	PASS
GAL3ST3	11	66041952	66049180	0.182439925	suppress_segment_too_large
GAL3ST4	7	100159244	100168750	-0.262778904	PASS
GALC	14	87837820	87993665	-0.192197564	PASS
GALE	1	23795599	23800804	0.033763446	PASS
GALK1	17	75751594	75765711	0.088516311	PASS
GALK2	15	49155656	49367869	-0.396255771	PASS
GALM	2	38665910	38741237	0.040498426	PASS
GALNS	16	88813734	88856970	-0.371357732	PASS
GALNT1	18	35581117	35711834	-0.376397843	PASS

GALNT10	5	154190730	154420984	-0.293443042	PASS
GALNT11	7	152025674	152122347	-0.388946609	PASS
GALNT12	9	98807699	98850081	0.365190713	suppress_segment_too_large
GALNT13	2	153871913	154453849	-0.475215623	PASS
GALNT14	2	30910467	31155202	0.040498426	PASS
GALNT15	3	16174649	16231992	0.311018244	suppress_segment_too_large
GALNT16	14	69259277	69357033	0.060212819	PASS
GALNT17	7	71132169	71713600	-0.750061359	PASS
GALNT18	11	11270876	11622005	-0.405444717	PASS
GALNT2	1	230057990	230282124	-0.256698369	PASS
GALNT3	2	165747591	165794682	0.039726562	PASS
GALNT4	12	89519408	89524806	0.202141228	PASS
GALNT5	2	157257598	157314211	-0.475215623	PASS
GALNT6	12	51351247	51392867	-0.202191512	PASS
GALNT7	4	173168753	173323967	-0.011382299	PASS
GALNT8	12	4720341	4851927	-0.086128028	PASS
GALNT9	12	132196372	132329349	0.270848837	PASS
GALNTL5	7	151956379	152019934	-0.388946609	PASS
GALNTL6	4	171812254	173041559	-0.011382299	PASS
GALP	19	56176020	56185775	-0.180829161	PASS
GALR1	18	77250549	77277896	-0.376397843	PASS
GALR2	17	76074794	76077541	0.088516311	PASS
GALR3	22	37823382	37825495	-0.575930959	PASS
GALT	9	34638133	34651035	-0.310444659	PASS
GAMT	19	1397026	1401570	0.079632875	PASS
GAN	16	81314947	81390884	-0.371357732	PASS
GANAB	11	62624826	62646726	0.182439925	suppress_segment_too_large
GANC	15	42273233	42356935	-0.396255771	PASS
GAP43	3	115623324	115721490	0.313454204	suppress_segment_too_large
GAPDH	12	6533927	6538374	-0.086128028	PASS
GAPDHS	19	35533412	35545316	0.093487731	suppress_segment_too_large
GAPT	5	58491435	58497090	-0.293443042	PASS
GAPVD1	9	125261794	125367207	0.365190713	suppress_segment_too_large
GAR1	4	109815510	109824740	-0.011382299	PASS
GAREM1	18	32124877	32470484	-0.376397843	PASS
GAREM2	2	26173091	26189663	0.040498426	PASS
GARNL3	9	127224265	127393660	0.365190713	suppress_segment_too_large
GARS	7	30594681	30634033	-0.69513118	PASS
GART	21	33503931	33543491	0.12860881	suppress_segment_too_large
GAS1	9	86944363	86947189	0.365190713	suppress_segment_too_large
GAS2	11	22625509	22813055	-0.405444717	PASS
GAS2L1	22	29306582	29312785	-0.575930959	PASS
GAS2L2	17	35744511	35752878	0.060555011	PASS
GAS2L3	12	100573683	100628286	0.202141228	PASS
GAS6	13	113820549	113864067	-0.390786075	PASS
GAS7	17	9910609	10198551	-0.139031004	PASS

GAS8	16	90019629	90044975	-0.371357732	PASS
GAST	17	41712326	41715969	0.060555011	PASS
GATA1	23	48786554	48794311	-0.012567603	PASS
GATA2	3	128479427	128493185	0.313454204	suppress_segment_too_large
GATA3	10	8045378	8075203	0.039811807	PASS
GATA4	8	11676959	11760002	-0.345962679	PASS
GATA5	20	62463497	62475970	-0.168668583	PASS
GATA6	18	22169443	22202528	-0.376397843	PASS
GATAD1	7	92447448	92459432	-0.262778904	PASS
GATAD2A	19	19385826	19508931	0.093487731	suppress_segment_too_large
GATAD2B	1	153789030	153923360	0.103015788	PASS
GATB	4	151670504	151761023	-0.011382299	PASS
GATC	12	120446438	120463749	0.202141228	PASS
GATD1	11	767220	777488	-0.333835828	PASS
GATD3B	21	5079294	5128425	-0.304975024	PASS
GATM	15	45361124	45402327	-0.396255771	PASS
GBA	1	155234452	155244699	0.103015788	PASS
GBA2	9	35736866	35749228	-0.310444659	PASS
GBE1	3	81489699	81762161	0.313454204	suppress_segment_too_large
GBF1	10	102245532	102382899	-0.367947924	PASS
GBGT1	9	133152948	133163945	0.365190713	suppress_segment_too_large
GBP1	1	89052319	89065360	0.033763446	PASS
GBP2	1	89106132	89150456	0.033763446	PASS
GBP3	1	89006666	89022894	0.033763446	PASS
GBP4	1	89181148	89198932	0.033763446	PASS
GBP5	1	89258950	89272804	0.033763446	PASS
GBP6	1	89364058	89386461	0.033763446	PASS
GBP7	1	89131751	89176040	0.033763446	PASS
GBX1	7	151148589	151174745	-0.388946609	PASS
GBX2	2	236165236	236168369	0.025928102	PASS
GC	4	71741693	71804041	-0.011382299	PASS
GCA	2	162318840	162371595	0.039726562	PASS
GCAT	22	37807905	37817176	-0.575930959	PASS
GCC1	7	127580618	127593611	-0.388946609	PASS
GCC2	2	108448561	108509415	-0.010901494	PASS
GCDH	19	12891026	12914207	0.093487731	suppress_segment_too_large
GCFC2	2	75652000	75710989	-0.372959126	PASS
GCG	2	162142873	162152404	0.039726562	PASS
GCGR	17	81804132	81814013	0.088516311	PASS
GCH1	14	54842008	54902852	0.060212819	PASS
GCHFR	15	40764020	40767710	-0.396255771	PASS
GCK	7	44144271	44198170	-0.69513118	PASS
GCKR	2	27496842	27523684	0.040498426	PASS
GCLC	6	53497341	53616970	0.048820648	PASS
GCLM	1	93885205	93909456	0.033763446	PASS
GCM1	6	53126964	53148829	0.048820648	PASS

GCM2	6	10873223	10881941	0.048820648	PASS
GCN1	12	120127203	120194710	0.202141228	PASS
GCNA	23	71578411	71613583	-0.012567603	PASS
GCNT1	9	76419850	76651203	0.365190713	suppress_segment_too_large
GCNT2	6	10492223	10629368	0.048820648	PASS
GCNT3	15	59594875	59640239	-0.697600509	PASS
GCNT4	5	75025346	75030899	-0.293443042	PASS
GCNT7	20	56491492	56525925	-0.168668583	PASS
GCOM1	15	57591908	57714745	-0.697600509	PASS
GCSAM	3	112120841	112133305	0.313454204	suppress_segment_too_large
GCSAML	1	247507058	247577690	-0.368111568	PASS
GCSAML-	1	247524679	247532613	-0.368111568	PASS
GCSH	16	81081938	81096425	-0.371357732	PASS
GDA	9	72114595	72257193	0.365190713	suppress_segment_too_large
GDAP1	8	74321130	74488872	-0.201142258	PASS
GDAP1L1	20	44247099	44280917	-0.168668583	PASS
GDAP2	1	117863485	117929630	0.033763446	PASS
GDE1	16	19501689	19522145	0.069936844	PASS
GDF1	19	18868545	18896096	0.093487731	suppress_segment_too_large
GDF10	10	47300386	47313547	-0.404852538	PASS
GDF11	12	55743280	55757278	-0.202191512	PASS
GDF15	19	18374731	18389176	0.093487731	suppress_segment_too_large
GDF2	10	47322490	47326270	-0.404852538	PASS
GDF3	12	7689782	7695776	-0.086128028	PASS
GDF5	20	35433347	35454746	-0.168668583	PASS
GDF6	8	96142330	96160792	0.279445683	PASS
GDF7	2	20666664	20679245	0.040498426	PASS
GDF9	5	132861181	132866884	-0.293443042	PASS
GDI1	23	154436913	154443467	-0.012567603	PASS
GDI2	10	5765223	5842132	0.039811807	PASS
GDNF	5	37812677	37839686	0.055007813	PASS
GDPD1	17	59220467	59275967	0.088516311	PASS
GDPD2	23	70423031	70433390	-0.012567603	PASS
GDPD3	16	30104810	30113856	0.069936844	PASS
GDPD4	11	77216558	77301687	0.062969153	PASS
GDPD5	11	75434640	75525903	0.062969153	PASS
GDPGP1	15	90233808	90245811	-0.697600509	PASS
GEM	8	94249253	94262350	0.279445683	PASS
GEMIN2	14	39114223	39136973	0.060212819	PASS
GEMIN4	17	744414	753999	0.128406487	PASS
GEMIN5	5	154887416	154938209	-0.293443042	PASS
GEMIN6	2	38751534	38785000	0.040498426	PASS
GEMIN7	19	45079195	45091524	0.14996833	PASS
GEMIN8	23	14008279	14029893	-0.012567603	PASS
GEN1	2	17753858	17788941	0.040498426	PASS
GET4	7	876552	896436	-0.69513118	PASS

GFAP	17	44903161	44916937	0.088516311	PASS
GFER	16	1984207	1987749	0.069936844	PASS
GFI1	1	92474762	92486876	0.033763446	PASS
GFI1B	9	132944000	132991687	0.365190713	suppress_segment_too_large
GFM1	3	158644278	158692575	0.318278996	suppress_segment_too_large
GFM2	5	74721204	74767371	-0.293443042	PASS
GFOD1	6	13357830	13487662	0.048820648	PASS
GFOD2	16	67674531	67719421	-0.371357732	PASS
GFPT1	2	69319769	69387254	-0.372959126	PASS
GFPT2	5	180300690	180353387	-0.150979337	PASS
GFRA1	10	116056925	116273467	0.063874692	PASS
GFRA2	8	21690403	21812357	-0.345962679	PASS
GFRA3	5	138252379	138274671	-0.293443042	PASS
GFRA4	20	3659292	3663399	-0.168668583	PASS
GFRAL	6	55327469	55402493	0.048820648	PASS
GFY	19	49423749	49428818	0.14996833	PASS
GGA1	22	37608475	37633564	-0.575930959	PASS
GGA2	16	23463542	23521995	0.069936844	PASS
GGA3	17	75236599	75262363	0.088516311	PASS
GGACT	13	100530164	100589528	-0.390786075	PASS
GGCT	7	30496621	30504844	-0.69513118	PASS
GGCX	2	85544723	85561547	0.066915641	PASS
GGH	8	63015079	63039171	-0.201142258	PASS
GGN	19	38384265	38388082	0.093487731	suppress_segment_too_large
GGNBP2	17	36544888	36589848	0.060555011	PASS
GGPS1	1	235327350	235344532	-0.256698369	PASS
GGT1	22	24583750	24629005	-0.575930959	PASS
GGT2	22	21207973	21227637	-0.575930959	PASS
GGT5	22	24219654	24245142	-0.575930959	PASS
GGT6	17	4556927	4560818	0.128406487	PASS
GGT7	20	34844720	34872860	-0.168668583	PASS
GGTLC1	20	23985050	23988779	-0.168668583	PASS
GGTLC2	22	22644475	22647903	-0.575930959	PASS
GH1	17	63917200	63918838	0.088516311	PASS
GH2	17	63880215	63881935	0.088516311	PASS
GHDC	17	42188799	42194532	0.060555011	PASS
GHITM	10	84139440	84153245	0.072405807	PASS
GHR	5	42423777	42721878	-0.293443042	PASS
GHRH	20	37251082	37261835	-0.168668583	PASS
GHRHR	7	30938669	30993254	-0.69513118	PASS
GHRL	3	10285675	10292947	0.311018244	suppress_segment_too_large
GHSR	3	172445133	172448456	0.318278996	suppress_segment_too_large
GID4	17	18039292	18068404	0.024610076	PASS
GID8	20	62938119	62948475	-0.168668583	PASS
GIF	11	59829268	59845501	-0.129266491	PASS
GIGYF1	7	100679507	100694037	-0.262778904	PASS

GIGYF2	2	232697299	232860575	0.025928102	PASS
GIMAP1	7	150716557	150724284	-0.388946609	PASS
GIMAP1-C	7	150716668	150743646	-0.388946609	PASS
GIMAP2	7	150685697	150693641	-0.388946609	PASS
GIMAP4	7	150567277	150573955	-0.388946609	PASS
GIMAP5	7	150722253	150750033	-0.388946609	PASS
GIMAP6	7	150625375	150632648	-0.388946609	PASS
GIMAP7	7	150514830	150521073	-0.388946609	PASS
GIMAP8	7	150450630	150479392	-0.388946609	PASS
GIMD1	4	106357485	106368825	-0.011382299	PASS
GIN1	5	103086000	103120151	-0.293443042	PASS
GINM1	6	149566294	149591748	-0.035448111	PASS
GINS1	20	25407727	25452628	-0.168668583	PASS
GINS2	16	85676198	85690073	-0.371357732	PASS
GINS3	16	58295080	58406144	-0.371357732	PASS
GINS4	8	41529206	41545046	-0.201142258	PASS
GIP	17	48958554	48968596	0.088516311	PASS
GIPC1	19	14477760	14496149	0.093487731	suppress_segment_too_large
GIPC2	1	77979542	78138449	0.033763446	PASS
GIPC3	19	3585553	3593541	0.079632875	PASS
GIPR	19	45668244	45683724	0.14996833	PASS
GIT1	17	29573469	29594054	0.060555011	PASS
GIT2	12	109929792	109996389	0.202141228	PASS
GJA1	6	121435577	121449727	-0.368590549	PASS
GJA10	6	89894469	89921760	-0.368590549	PASS
GJA3	13	20138255	20161049	-0.390786075	PASS
GJA4	1	34792998	34795747	0.033763446	PASS
GJA5	1	147756199	147773362	-0.157385092	PASS
GJA8	1	147907956	147909257	-0.157385092	PASS
GJA9	1	38874451	38881587	0.033763446	PASS
GJA9-MYC	1	38864501	38881617	0.033763446	PASS
GJB1	23	71215194	71225516	-0.012567603	PASS
GJB2	13	20187463	20193010	-0.390786075	PASS
GJB3	1	34781189	34786369	0.033763446	PASS
GJB4	1	34759741	34763724	0.033763446	PASS
GJB5	1	34755047	34758512	0.033763446	PASS
GJB6	13	20221962	20232395	-0.390786075	PASS
GJB7	6	87282978	87329278	-0.368590549	PASS
GJC1	17	44798448	44830816	0.088516311	PASS
GJC2	1	228149852	228159826	-0.256698369	PASS
GJC3	7	99923269	99929620	-0.262778904	PASS
GJD2	15	34751032	34754965	-0.396255771	PASS
GJD3	17	40362931	40363815	0.060555011	PASS
GJD4	10	35605410	35608935	0.039811807	PASS
GJE1	6	142133090	142135151	-0.035448111	PASS
GK	23	30653359	30731456	-0.012567603	PASS

GK2	4	79406352	79408293	-0.011382299	PASS
GK3P	4	165277812	165279679	-0.011382299	PASS
GK5	3	142157527	142225607	-0.356957581	PASS
GKAP1	9	83739421	83829516	0.365190713	suppress_segment_too_large
GKN1	2	68974573	68980974	-0.372959126	PASS
GKN2	2	68945232	68952970	-0.372959126	PASS
GLA	23	101397803	101408012	-0.012567603	PASS
GLB1	3	32996608	33097230	0.311018244	suppress_segment_too_large
GLB1L	2	219236606	219245478	0.025928102	PASS
GLB1L2	11	134331874	134378341	-0.419612865	PASS
GLB1L3	11	134274245	134319564	-0.419612865	PASS
GLCCI1	7	7968794	8094272	-0.69513118	PASS
GLCE	15	69160584	69272217	-0.697600509	PASS
GLDC	9	6532464	6645783	-0.310444659	PASS
GLDN	15	51341629	51408013	-0.396255771	PASS
GLE1	9	128504700	128542288	0.365190713	suppress_segment_too_large
GLG1	16	74447427	74607144	-0.371357732	PASS
GLI1	12	57460135	57472262	-0.202191512	PASS
GLI2	2	120735623	120992653	-0.475215623	PASS
GLI3	7	41960950	42237870	-0.69513118	PASS
GLI4	8	143267433	143276931	0.307788765	PASS
GLIPR1	12	75480680	75503853	0.202141228	PASS
GLIPR1L1	12	75334639	75370560	0.202141228	PASS
GLIPR1L2	12	75391070	75432688	0.202141228	PASS
GLIPR2	9	36136536	36163913	-0.310444659	PASS
GLIS1	1	53506237	53738106	0.033763446	PASS
GLIS2	16	4314761	4339597	0.069936844	PASS
GLIS3	9	3824127	4348392	-0.310444659	PASS
GLMN	1	92246402	92298987	0.033763446	PASS
GLMP	1	156290089	156295689	0.103015788	PASS
GLO1	6	38675925	38703141	0.048820648	PASS
GLOD4	17	757097	783390	0.128406487	PASS
GLOD5	23	48761750	48773648	-0.012567603	PASS
GLP1R	6	39048798	39087743	0.048820648	PASS
GLP2R	17	9822206	9892102	-0.139031004	PASS
GLRA1	5	151822513	151924842	-0.293443042	PASS
GLRA2	23	14529298	14731812	-0.012567603	PASS
GLRA3	4	174636914	174829314	-0.011382299	PASS
GLRA4	23	103707224	103728655	-0.012567603	PASS
GLRB	4	157076057	157172090	-0.011382299	PASS
GLRX	5	95751319	95823005	-0.293443042	PASS
GLRX2	1	193090866	193106114	-0.027073548	PASS
GLRX3	10	130136399	130184521	0.063874692	PASS
GLRX5	14	95533503	95544724	-0.192197564	PASS
GLS	2	190880827	190965552	0.025928102	PASS
GLS2	12	56470944	56488414	-0.202191512	PASS

GLT1D1	12	128853427	128984968	-0.240609783	PASS
GLT6D1	9	135623656	135639540	0.365190713	suppress_segment_too_large
GLT8D1	3	52694488	52706032	-0.234617007	PASS
GLT8D2	12	103988984	104064183	0.202141228	PASS
GLTP	12	109850943	109880488	0.202141228	PASS
GLTPD2	17	4788959	4790390	0.128406487	PASS
GLUD1	10	87050486	87094866	-0.292453993	PASS
GLUD2	23	121047588	121050080	-0.012567603	PASS
GLUL	1	182381704	182392206	-0.027073548	PASS
GLYAT	11	58640426	58731974	-0.129266491	PASS
GLYATL1	11	58905398	59043527	-0.129266491	PASS
GLYATL1	11	59086307	59094786	-0.129266491	PASS
GLYATL2	11	58834065	58904215	-0.129266491	PASS
GLYATL3	6	49499958	49527047	0.048820648	PASS
GLYCTK	3	52287089	52293476	-0.234617007	PASS
GLYR1	16	4803203	4847342	0.069936844	PASS
GM2A	5	151212150	151270440	-0.293443042	PASS
GMCL1	2	69829642	69881396	-0.372959126	PASS
GMCL2	5	178184503	178187432	-0.150979337	PASS
GMDS	6	1623806	2245692	0.048820648	PASS
GMEB1	1	28668732	28719353	0.033763446	PASS
GMEB2	20	63587602	63627041	-0.168668583	PASS
GMFB	14	54474484	54489196	0.060212819	PASS
GMFG	19	39328353	39342372	0.093487731	suppress_segment_too_large
GMIP	19	19629476	19643667	0.093487731	suppress_segment_too_large
GML	8	142834247	142916506	0.113969953	PASS
GMNC	3	190852877	190892429	0.318278996	suppress_segment_too_large
GMNN	6	24774931	24786099	0.048820648	PASS
GMPPA	2	219498867	219506989	0.025928102	PASS
GMPPB	3	49716844	49723951	-0.234617007	PASS
GMPR	6	16238580	16295549	0.048820648	PASS
GMPR2	14	24232422	24239242	0.060212819	PASS
GMPS	3	155870536	155944026	0.318278996	suppress_segment_too_large
GNA11	19	3094410	3124004	0.079632875	PASS
GNA12	7	2728112	2844324	-0.69513118	PASS
GNA13	17	65010715	65056839	0.088516311	PASS
GNA14	9	77423079	77648307	0.365190713	suppress_segment_too_large
GNA15	19	3136193	3163769	0.079632875	PASS
GNAI1	7	79768028	80226181	-0.262778904	PASS
GNAI2	3	50226292	50259355	-0.234617007	PASS
GNAI3	1	109548611	109618321	0.033763446	PASS
GNAL	18	11688956	11885685	-0.052305056	suppress_segment_too_large
GNAO1	16	56191347	56357457	-0.371357732	PASS
GNAQ	9	77716087	78031458	0.365190713	suppress_segment_too_large
GNAS	20	58839718	58911192	-0.168668583	PASS
GNAT1	3	50191612	50196516	-0.234617007	PASS

GNAT2	1	109603267	109619929	0.033763446	PASS
GNAT3	7	80458671	80512020	-0.262778904	PASS
GNAZ	22	23070361	23125037	-0.575930959	PASS
GNB1	1	1785285	1891117	0.373964873	suppress_segment_too_large
GNB1L	22	19783224	19854939	-0.575930959	PASS
GNB2	7	100673531	100679174	-0.262778904	PASS
GNB3	12	6839954	6847393	-0.086128028	PASS
GNB4	3	179396089	179451590	0.318278996	suppress_segment_too_large
GNB5	15	52115105	52191369	-0.396255771	PASS
GNE	9	36214441	36277056	-0.310444659	PASS
GNG10	9	111661335	111670246	0.365190713	suppress_segment_too_large
GNG11	7	93921699	93928610	-0.262778904	PASS
GNG12	1	67701466	67833467	0.033763446	PASS
GNG13	16	798041	800733	0.069936844	PASS
GNG14	19	12687998	12688422	0.093487731	suppress_segment_too_large
GNG2	14	51826195	51979342	0.060212819	PASS
GNG3	11	62707658	62709201	0.182439925	suppress_segment_too_large
GNG4	1	235547687	235650754	-0.256698369	PASS
GNG5	1	84498325	84506565	0.033763446	PASS
GNG7	19	2511219	2702709	0.079632875	PASS
GNG8	19	46634076	46634685	0.14996833	PASS
GNGT1	7	93591573	93911265	-0.262778904	PASS
GNGT2	17	49202791	49210574	0.088516311	PASS
GNL1	6	30541377	30557174	0.048820648	PASS
GNL2	1	37566816	37595935	0.033763446	PASS
GNL3	3	52681156	52694492	-0.234617007	PASS
GNL3L	23	54530211	54561071	-0.012567603	PASS
GNLY	2	85685175	85698854	0.066915641	PASS
GNMT	6	42960758	42963880	0.048820648	PASS
GNPAT	1	231241207	231277973	-0.256698369	PASS
GNPDA1	5	141991749	142013041	-0.293443042	PASS
GNPDA2	4	44682200	44726595	-0.011382299	PASS
GNPNAT1	14	52775194	52791668	0.060212819	PASS
GNPTAB	12	101745497	101830938	0.202141228	PASS
GNPTG	16	1351923	1364113	0.069936844	PASS
GNRH1	8	25419260	25424654	-0.345962679	PASS
GNRH2	20	3043622	3045747	-0.168668583	PASS
GNRHR	4	67739328	67754360	-0.011382299	PASS
GNS	12	64713445	64759447	-0.202191512	PASS
GOLGA1	9	124878357	124948492	0.365190713	suppress_segment_too_large
GOLGA2	9	128255829	128275995	0.365190713	suppress_segment_too_large
GOLGA3	12	132768909	132828858	0.270848837	PASS
GOLGA4	3	37243177	37366751	-0.234617007	PASS
GOLGA5	14	92794231	92839963	-0.192197564	PASS
GOLGA6A	15	74069857	74082550	-0.697600509	PASS
GOLGA6B	15	72654738	72666394	-0.697600509	PASS

GOLGA6C	15	75258599	75270199	-0.697600509	PASS
GOLGA6D	15	75282835	75295807	-0.697600509	PASS
GOLGA6L	15	23128268	23136822	-0.396255771	PASS
GOLGA6L	15	82339998	82349475	-0.697600509	PASS
GOLGA6L	15	23439498	23447234	-0.396255771	PASS
GOLGA6L	15	22458903	22469230	-0.750600437	PASS
GOLGA6L	15	84235773	84245368	-0.697600509	PASS
GOLGA6L	15	28841833	28848675	-0.396255771	PASS
GOLGA6L	15	82430018	82439153	-0.697600509	PASS
GOLGA7	8	41490396	41510980	-0.201142258	PASS
GOLGA7B	10	97850239	97871580	-0.367947924	PASS
GOLGA8A	15	34379068	34437466	-0.396255771	PASS
GOLGA8B	15	34525207	34588503	-0.396255771	PASS
GOLGA8F	15	28378621	28392018	-0.396255771	PASS
GOLGA8G	15	28519611	28533014	-0.396255771	PASS
GOLGA8H	15	30604126	30614561	-0.396255771	PASS
GOLGA8J	15	30083053	30093499	-0.396255771	PASS
GOLGA8K	15	32392782	32403292	-0.396255771	PASS
GOLGA8M	15	28701954	28738384	-0.396255771	PASS
GOLGA8N	15	32593456	32607310	-0.396255771	PASS
GOLGA8O	15	32445106	32455634	-0.396255771	PASS
GOLGA8Q	15	30552078	30562501	-0.396255771	PASS
GOLGA8R	15	30403740	30414162	-0.396255771	PASS
GOLGA8S	15	23354748	23367231	-0.396255771	PASS
GOLGA8T	15	30135149	30145567	-0.396255771	PASS
GOLGB1	3	121663199	121749767	0.313454204	suppress_segment_too_large
GOLIM4	3	168008677	168095975	0.318278996	suppress_segment_too_large
GOLM1	9	86026146	86100173	0.365190713	suppress_segment_too_large
GOLPH3	5	32124704	32174350	0.055007813	PASS
GOLPH3L	1	150646225	150697144	0.103015788	PASS
GOLT1A	1	204198160	204214092	-0.256698369	PASS
GOLT1B	12	21501781	21518408	0.362961408	suppress_segment_too_large
GON4L	1	155749662	155859400	0.103015788	PASS
GON7	14	93202894	93207094	-0.192197564	PASS
GOPC	6	117560269	117602542	-0.368590549	PASS
GORAB	1	170532129	170553446	-0.027073548	PASS
GORASP1	3	39096659	39108363	-0.234617007	PASS
GORASP2	2	170928464	170967129	0.039726562	PASS
GOSR1	17	30477362	30527592	0.060555011	PASS
GOSR2	17	46923075	46975524	0.088516311	PASS
GOT1	10	99396870	99431569	-0.367947924	PASS
GOT1L1	8	37934281	37940129	-0.201142258	PASS
GOT2	16	58707131	58734357	-0.371357732	PASS
GP1BA	17	4932297	4935030	0.128406487	PASS
GP1BB	22	19722945	19724771	-0.575930959	PASS
GP2	16	20309572	20327808	0.069936844	PASS

GP5	3	194394821	194398354	0.326834516	PASS
GP6	19	55013705	55038264	0.121336758	PASS
GP9	3	129060767	129062406	0.313454204	suppress_segment_too_large
GPA33	1	167052836	167166479	-0.027073548	PASS
GPAA1	8	144082590	144086216	0.307788765	PASS
GPALPP1	13	44989529	45037669	-0.390786075	PASS
GPAM	10	112149864	112215377	0.063874692	PASS
GPANK1	6	31661229	31666283	0.048820648	PASS
GPAT2	2	96021946	96039451	0.048238121	PASS
GPAT3	4	83535914	83605875	-0.011382299	PASS
GPAT4	8	41577187	41625001	-0.201142258	PASS
GPATCH1	19	33080880	33130542	0.093487731	suppress_segment_too_large
GPATCH1	2	37084451	37099244	0.040498426	PASS
GPATCH2	1	217426992	217631082	-0.256698369	PASS
GPATCH2	14	76151916	76254342	-0.192197564	PASS
GPATCH3	1	26890488	26900466	0.033763446	PASS
GPATCH4	1	156594487	156601496	0.103015788	PASS
GPATCH8	17	44395284	44503430	0.088516311	PASS
GPBAR1	2	218259496	218263859	0.025928102	PASS
GPBP1	5	57173948	57264679	-0.293443042	PASS
GPBP1L1	1	45627304	45688113	0.033763446	PASS
GPC1	2	240435671	240468078	0.025928102	PASS
GPC2	7	100169606	100177372	-0.262778904	PASS
GPC3	23	133535745	133985895	-0.012567603	PASS
GPC4	23	133300103	133415490	-0.012567603	PASS
GPC5	13	91398607	92873682	-0.390786075	PASS
GPC6	13	93226842	94407401	-0.390786075	PASS
GPCPD1	20	5544404	5611026	-0.168668583	PASS
GPD1	12	50103819	50111319	-0.202191512	PASS
GPD1L	3	32105689	32168713	0.311018244	suppress_segment_too_large
GPD2	2	156435290	156613735	-0.475215623	PASS
GPER1	7	1082208	1093815	-0.69513118	PASS
GPHA2	11	64934471	64935888	0.182439925	suppress_segment_too_large
GPHB5	14	63312835	63318879	0.060212819	PASS
GPHN	14	66507407	67181803	0.060212819	PASS
GPI	19	34359480	34402413	0.093487731	suppress_segment_too_large
GPIHBP1	8	143213193	143217170	0.307788765	PASS
GPKOW	23	49113389	49123801	-0.012567603	PASS
GPLD1	6	24424565	24495205	0.048820648	PASS
GPM6A	4	175632934	176002664	-0.011382299	PASS
GPM6B	23	13771031	13938638	-0.012567603	PASS
GPN1	2	27628247	27651508	0.040498426	PASS
GPN2	1	26876133	26890297	0.033763446	PASS
GPN3	12	110452484	110469268	0.202141228	PASS
GPNMB	7	23235967	23275108	-0.69513118	PASS
GPR1	2	206175316	206218047	0.025928102	PASS

GPR101	23	137030148	137031674	-0.012567603	PASS
GPR107	9	130053426	130140169	0.365190713	suppress_segment_too_large
GPR108	19	6729914	6737603	0.079632875	PASS
GPR119	23	130384440	130385447	-0.012567603	PASS
GPR12	13	26755200	26760785	-0.390786075	PASS
GPR132	14	105049389	105065445	-0.192197564	PASS
GPR135	14	59429022	59465342	0.060212819	PASS
GPR137	11	64270062	64289500	0.182439925	suppress_segment_too_large
GPR137B	1	236142505	236221865	-0.256698369	PASS
GPR137C	14	52553148	52637713	0.060212819	PASS
GPR139	16	20031485	20073917	0.069936844	PASS
GPR141	7	37683796	37833788	-0.69513118	PASS
GPR142	17	74367407	74372622	0.088516311	PASS
GPR143	23	9725346	9786297	-0.012567603	PASS
GPR146	7	1044576	1059261	-0.69513118	PASS
GPR148	2	130729070	130730336	-0.475215623	PASS
GPR149	3	154337672	154429715	0.318278996	suppress_segment_too_large
GPR15	3	98531899	98533150	0.313454204	suppress_segment_too_large
GPR150	5	95620078	95622142	-0.293443042	PASS
GPR151	5	146513103	146516190	-0.293443042	PASS
GPR152	11	67451301	67452729	0.182439925	suppress_segment_too_large
GPR153	1	6247346	6260975	0.373964873	suppress_segment_too_large
GPR155	2	174431571	174487094	0.039726562	PASS
GPR156	3	120164645	120285094	0.313454204	suppress_segment_too_large
GPR157	1	9100305	9129170	0.373964873	suppress_segment_too_large
GPR158	10	25174802	25602226	0.039811807	PASS
GPR160	3	170037929	170085403	0.318278996	suppress_segment_too_large
GPR161	1	168079543	168137667	-0.027073548	PASS
GPR162	12	6821545	6829972	-0.086128028	PASS
GPR17	2	127645864	127652639	-0.475215623	PASS
GPR171	3	151197832	151203201	0.318278996	suppress_segment_too_large
GPR173	23	53049091	53080615	-0.012567603	PASS
GPR174	23	79144663	79175315	-0.012567603	PASS
GPR176	15	39799032	39920892	-0.396255771	PASS
GPR179	17	38325530	38343847	0.060555011	PASS
GPR18	13	99254714	99261744	-0.390786075	PASS
GPR180	13	94601903	94634645	-0.390786075	PASS
GPR182	12	56994446	56998441	-0.202191512	PASS
GPR183	13	99294530	99307405	-0.390786075	PASS
GPR19	12	12660891	12696207	0.362961408	suppress_segment_too_large
GPR20	8	141356500	141367267	0.113969953	PASS
GPR21	9	123034527	123035696	0.365190713	suppress_segment_too_large
GPR22	7	107470018	107475659	-0.388946609	PASS
GPR25	1	200872955	200874178	-0.256698369	PASS
GPR26	10	123666355	123694607	0.063874692	PASS
GPR27	3	71754050	71756496	-0.234617007	PASS

GPR3	1	27392644	27395814	0.033763446	PASS
GPR31	6	167156271	167158329	-0.035448111	PASS
GPR32	19	50770464	50771732	-0.016761391	PASS
GPR33	14	31482875	31488142	0.060212819	PASS
GPR34	23	41688973	41697277	-0.012567603	PASS
GPR35	2	240605431	240631259	0.025928102	PASS
GPR37	7	124745997	124765627	-0.388946609	PASS
GPR37L1	1	202122858	202133592	-0.256698369	PASS
GPR39	2	132416574	132646559	-0.475215623	PASS
GPR4	19	45589764	45602208	0.14996833	PASS
GPR42	19	35370929	35372962	0.093487731	suppress_segment_too_large
GPR45	2	105241743	105243049	-0.532032081	PASS
GPR50	23	151176653	151181465	-0.012567603	PASS
GPR52	1	174448111	174449198	-0.027073548	PASS
GPR55	2	230907318	230961066	0.025928102	PASS
GPR6	6	109978256	109980718	-0.368590549	PASS
GPR61	1	109539872	109548406	0.033763446	PASS
GPR62	3	51955314	51957504	-0.234617007	PASS
GPR63	6	96794126	96837463	-0.368590549	PASS
GPR65	14	88005124	88014811	-0.192197564	PASS
GPR68	14	91232532	91253925	-0.192197564	PASS
GPR75	2	53852913	53859989	0.040498426	PASS
GPR75-AS	2	53670293	53860160	0.040498426	PASS
GPR78	4	8558725	8619761	0.279089364	PASS
GPR82	23	41724155	41730135	-0.012567603	PASS
GPR83	11	94377311	94401419	0.062969153	PASS
GPR84	12	54362445	54364487	-0.202191512	PASS
GPR85	7	113078331	113087778	-0.388946609	PASS
GPR87	3	151294086	151316952	0.318278996	suppress_segment_too_large
GPR88	1	100538137	100542018	0.033763446	PASS
GPR89A	1	145607990	145670648	-0.157385092	PASS
GPR89B	1	147928393	147993521	-0.157385092	PASS
GPRASP1	23	102651366	102659083	-0.012567603	PASS
GPRASP2	23	102712176	102717733	-0.012567603	PASS
GPRC5A	12	12890782	12917937	0.362961408	suppress_segment_too_large
GPRC5B	16	19856691	19886167	0.069936844	PASS
GPRC5C	17	74424851	74451653	0.088516311	PASS
GPRC5D	12	12940775	12952147	0.362961408	suppress_segment_too_large
GPRC6A	6	116792085	116829037	-0.368590549	PASS
GPRIN1	5	176595802	176610133	-0.150979337	PASS
GPRIN2	10	46549044	46555530	-0.404852538	PASS
GPRIN3	4	89236386	89308010	-0.011382299	PASS
GPS1	17	82050691	82057470	0.088516311	PASS
GPS2	17	7311324	7315564	0.128406487	PASS
GPSM1	9	136327476	136359605	0.365190713	suppress_segment_too_large
GPSM2	1	108875350	108934545	0.033763446	PASS

GPSM3	6	32190766	32195523	0.048820648	PASS
GPT	8	144502973	144507174	0.307788765	PASS
GPT2	16	46884378	46931297	0.069936844	PASS
GPX2	14	64939152	64942905	0.060212819	PASS
GPX3	5	151020438	151028993	-0.293443042	PASS
GPX4	19	1103926	1106791	0.079632875	PASS
GPX5	6	28525925	28534952	0.048820648	PASS
GPX6	6	28503296	28528215	0.048820648	PASS
GPX7	1	52602372	52609051	0.033763446	PASS
GPX8	5	55160118	55167071	-0.293443042	PASS
GRAMD1A	19	34994784	35026471	0.093487731	suppress_segment_too_large
GRAMD1B	11	123358428	123627774	-0.949752196	PASS
GRAMD1C	3	113828182	113947174	0.313454204	suppress_segment_too_large
GRAMD2A	15	72159807	72197785	-0.697600509	PASS
GRAMD2B	5	126360132	126496494	-0.293443042	PASS
GRAMD4	22	46576012	46679790	-0.808211634	PASS
GRAP	17	19020673	19047637	0.024610076	PASS
GRAP2	22	39901082	39973721	-0.575930959	PASS
GRAPL	17	19127469	19159176	0.024610076	PASS
GRASP	12	52006940	52015889	-0.202191512	PASS
GRB10	7	50590063	50793462	-0.750061359	PASS
GRB14	2	164492812	164621848	0.039726562	PASS
GRB2	17	75318076	75405709	0.088516311	PASS
GRB7	17	39737927	39747291	0.060555011	PASS
GREB1	2	11482341	11642788	0.040498426	PASS
GREB1L	18	21242242	21525417	-0.376397843	PASS
GREM1	15	32717974	32745107	-0.396255771	PASS
GREM2	1	240489573	240612149	-0.648598641	PASS
GRHL1	2	9951693	10002277	0.040498426	PASS
GRHL2	8	101492432	101669726	0.279445683	PASS
GRHL3	1	24319322	24364482	0.033763446	PASS
GRHPR	9	37422666	37436990	-0.310444659	PASS
GRIA1	5	153489615	153813869	-0.293443042	PASS
GRIA2	4	157204182	157366075	-0.011382299	PASS
GRIA3	23	123184153	123490915	-0.012567603	PASS
GRIA4	11	105609994	105982092	-0.356188624	PASS
GRID1	10	85599555	86366493	0.072405807	PASS
GRID2	4	92303622	93810157	-0.011382299	PASS
GRID2IP	7	6497462	6551436	-0.69513118	PASS
GRIFIN	7	2474844	2476894	-0.69513118	PASS
GRIK1	21	29536933	29940033	0.12860881	suppress_segment_too_large
GRIK2	6	101181257	102070083	-0.368590549	PASS
GRIK3	1	36795527	37034129	0.033763446	PASS
GRIK4	11	120511700	120988904	-0.356188624	PASS
GRIK5	19	41998321	42069498	0.093487731	suppress_segment_too_large
GRIN1	9	137138390	137168762	0.365190713	suppress_segment_too_large

GRIN2A	16	9753404	10182754	0.069936844	PASS
GRIN2B	12	13437942	13981957	0.362961408	suppress_segment_too_large
GRIN2C	17	74842023	74861504	0.088516311	PASS
GRIN2D	19	48394875	48444931	0.14996833	PASS
GRIN3A	9	101569353	101738580	0.365190713	suppress_segment_too_large
GRIN3B	19	1000419	1009732	0.079632875	PASS
GRINA	8	143990058	143993415	0.307788765	PASS
GRIP1	12	66347431	67069162	-0.202191512	PASS
GRIP2	3	14489111	14556075	0.311018244	suppress_segment_too_large
GRIPAP1	23	48973720	49002264	-0.012567603	PASS
GRK1	13	113667155	113737735	-0.390786075	PASS
GRK2	11	67266410	67286556	0.182439925	suppress_segment_too_large
GRK3	22	25564849	25729294	-0.575930959	PASS
GRK4	4	2963608	3040747	0.279089364	PASS
GRK5	10	119207589	119459742	0.063874692	PASS
GRK6	5	177403204	177442901	-0.150979337	PASS
GRK7	3	141778148	141818490	-0.356957581	PASS
GRM1	6	146027646	146437598	-0.035448111	PASS
GRM2	3	51707070	51718613	-0.234617007	PASS
GRM3	7	86643914	86864884	-0.262778904	PASS
GRM4	6	34018645	34155622	0.048820648	PASS
GRM5	11	88504576	89065945	0.062969153	PASS
GRM6	5	178977587	178996206	-0.150979337	PASS
GRM7	3	6770001	7741533	0.311018244	suppress_segment_too_large
GRM8	7	126438598	127253294	-0.388946609	PASS
GRN	17	44345086	44353102	0.088516311	PASS
GRP	18	59220168	59230774	-0.376397843	PASS
GRPEL1	4	7058906	7068197	0.279089364	PASS
GRPEL2	5	149345430	149354583	-0.293443042	PASS
GRPR	23	16123556	16153021	-0.012567603	PASS
GRSF1	4	70815782	70839945	-0.011382299	PASS
GRTP1	13	113324164	113364148	-0.390786075	PASS
GRWD1	19	48445773	48457022	0.14996833	PASS
GRXCR1	4	42893267	43030658	-0.011382299	PASS
GRXCR2	5	145858521	145937126	-0.293443042	PASS
GSAP	7	77310751	77416400	-0.262778904	PASS
GSC	14	94768216	94770230	-0.192197564	PASS
GSC2	22	19148576	19150283	-0.575930959	PASS
GSDMA	17	39953263	39977766	0.060555011	PASS
GSDMB	17	39904595	39919854	0.060555011	PASS
GSDMC	8	129748196	129786888	0.113969953	PASS
GSDMD	8	143553207	143563062	0.307788765	PASS
GSDME	7	24698351	24758113	-0.69513118	PASS
GSE1	16	85169525	85676204	-0.371357732	PASS
GSG1	12	13083560	13103683	0.362961408	suppress_segment_too_large
GSG1L	16	27787535	28063509	0.069936844	PASS

GSG1L2	17	9802386	9822071	-0.139031004	PASS
GSK3A	19	42230186	42242625	0.093487731	suppress_segment_too_large
GSK3B	3	119821323	120094417	0.313454204	suppress_segment_too_large
GSKIP	14	96363452	96387288	-0.192197564	PASS
GSN	9	121207794	121332843	0.365190713	suppress_segment_too_large
GSPT1	16	11868128	11916082	0.069936844	PASS
GSPT2	23	51743431	51746232	-0.012567603	PASS
GSR	8	30678061	30727999	-0.345962679	PASS
GSS	20	34928433	34956027	-0.168668583	PASS
GSTA1	6	52791664	52803910	0.048820648	PASS
GSTA2	6	52750089	52763569	0.048820648	PASS
GSTA3	6	52896639	52909685	0.048820648	PASS
GSTA4	6	52977948	52995378	0.048820648	PASS
GSTA5	6	52831655	52846095	0.048820648	PASS
GSTCD	4	105708778	105847728	-0.011382299	PASS
GSTK1	7	143244093	143270854	-0.388946609	PASS
GSTM1	1	109687814	109709039	0.033763446	PASS
GSTM2	1	109668022	109709551	0.033763446	PASS
GSTM3	1	109733932	109741038	0.033763446	PASS
GSTM4	1	109656081	109674836	0.033763446	PASS
GSTM5	1	109711780	109775428	0.033763446	PASS
GSTO1	10	104235356	104267459	-0.367947924	PASS
GSTO2	10	104268873	104304945	-0.367947924	PASS
GSTP1	11	67583595	67586656	0.182439925	suppress_segment_too_large
GSTT2B	22	23957414	23961186	-0.575930959	PASS
GSTZ1	14	77320884	77331597	-0.192197564	PASS
GSX1	13	27792643	27794768	-0.390786075	PASS
GSX2	4	54099523	54102505	-0.011382299	PASS
GTDC1	2	143938068	144332568	-0.475215623	PASS
GTF2A1	14	81175452	81221377	-0.192197564	PASS
GTF2A1L	2	48617798	48733148	0.040498426	PASS
GTF2A2	15	59638062	59657541	-0.697600509	PASS
GTF2B	1	88852932	88891944	0.033763446	PASS
GTF2E1	3	120742637	120783069	0.313454204	suppress_segment_too_large
GTF2E2	8	30578318	30658251	-0.345962679	PASS
GTF2F1	19	6379569	6393981	0.079632875	PASS
GTF2F2	13	45120515	45284909	-0.390786075	PASS
GTF2H1	11	18322295	18367044	-0.405444717	PASS
GTF2H2	5	71032670	71067689	-0.293443042	PASS
GTF2H2C	5	69560208	69594723	-0.293443042	PASS
GTF2H3	12	123633739	123662606	0.202141228	PASS
GTF2H4	6	30908184	30914106	0.048820648	PASS
GTF2H5	6	158168350	158199344	-0.035448111	PASS
GTF2I	7	74657667	74760692	-0.262778904	PASS
GTF2IRD1	7	74453790	74602604	-0.262778904	PASS
GTF2IRD2	7	74796144	74851551	-0.262778904	PASS

GTF2IRD2	7	75092573	75149817	-0.262778904	PASS
GTF3A	13	27424544	27435823	-0.390786075	PASS
GTF3C1	16	27459555	27549913	0.069936844	PASS
GTF3C2	2	27325849	27357034	0.040498426	PASS
GTF3C3	2	196763032	196799725	0.025928102	PASS
GTF3C4	9	132670035	132694955	0.365190713	suppress_segment_too_large
GTF3C5	9	133030675	133058503	0.365190713	suppress_segment_too_large
GTF3C6	6	110958560	110967890	-0.368590549	PASS
GTPBP1	22	38705723	38738299	-0.575930959	PASS
GTPBP10	7	90335223	90391455	-0.262778904	PASS
GTPBP2	6	43605316	43629162	0.048820648	PASS
GTPBP3	19	17334920	17342735	0.093487731	suppress_segment_too_large
GTPBP4	10	988019	1019936	0.039811807	PASS
GTPBP6	23	304529	318819	-0.012567603	PASS
GTPBP8	3	112990918	113015060	0.313454204	suppress_segment_too_large
GTSE1	22	46296741	46330810	-0.808211634	PASS
GTSF1	12	54455950	54473602	-0.202191512	PASS
GTSF1L	20	43726164	43726998	-0.168668583	PASS
GUCA1A	6	42155406	42180056	0.048820648	PASS
GUCA1B	6	42184401	42194916	0.048820648	PASS
GUCA1C	3	108907792	108953895	0.313454204	suppress_segment_too_large
GUCA2A	1	42162691	42164718	0.033763446	PASS
GUCA2B	1	42153421	42155824	0.033763446	PASS
GUCD1	22	24540423	24555935	-0.575930959	PASS
GUCY1A1	4	155666711	155732349	-0.011382299	PASS
GUCY1A2	11	106674012	107018524	-0.356188624	PASS
GUCY1B1	4	155758992	155807591	-0.011382299	PASS
GUCY2C	12	14612632	14696585	0.362961408	suppress_segment_too_large
GUCY2D	17	8002594	8020339	0.128406487	PASS
GUCY2F	23	109372906	109482072	-0.012567603	PASS
GUF1	4	44678427	44700926	-0.011382299	PASS
GUK1	1	228139962	228148984	-0.256698369	PASS
GULP1	2	188291669	188595931	0.025928102	PASS
GUSB	7	65960684	65982314	-0.750061359	PASS
GVQW2	6	138725211	138773652	-0.035448111	PASS
GVQW3	11	76381313	76414619	0.062969153	PASS
GXYLT1	12	42081845	42144879	-0.202191512	PASS
GXYLT2	3	72888073	72998138	-0.234617007	PASS
GYG1	3	148991341	149027668	0.318278996	suppress_segment_too_large
GYG2	23	2828788	2882820	-0.012567603	PASS
GYPA	4	144109303	144140786	-0.011382299	PASS
GYPB	4	143996104	144019345	-0.011382299	PASS
GYPC	2	126655933	126696670	-0.475215623	PASS
GYPE	4	143870867	143905563	-0.011382299	PASS
GYS1	19	48968125	48993310	0.14996833	PASS
GYS2	12	21536189	21604847	0.362961408	suppress_segment_too_large

GZF1	20	23362182	23373063	-0.168668583	PASS
GZMA	5	55102648	55110252	-0.293443042	PASS
GZMB	14	24630954	24634267	0.060212819	PASS
GZMH	14	24606480	24609699	0.060212819	PASS
GZMK	5	55024253	55034570	-0.293443042	PASS
GZMM	19	544034	549924	0.079632875	PASS
H1F0	22	37805093	37807436	-0.575930959	PASS
H1FNT	12	48328980	48330279	-0.202191512	PASS
H1FOO	3	129543214	129551467	0.313454204	suppress_segment_too_large
H1FX	3	129314771	129316277	0.313454204	suppress_segment_too_large
H2AFB1	23	154884972	154885558	-0.012567603	PASS
H2AFJ	12	14774383	14778002	0.362961408	suppress_segment_too_large
H2AFV	7	44826791	44848083	-0.69513118	PASS
H2AFX	11	119093854	119095467	-0.356188624	PASS
H2AFY	5	135333900	135399914	-0.293443042	PASS
H2AFY2	10	70052796	70112280	0.072405807	PASS
H2AFZ	4	99948086	99950388	-0.011382299	PASS
H2BFM	23	104039949	104042454	-0.012567603	PASS
H2BFS	21	5972924	43565648	-0.304975024	PASS
H2BFWT	23	104011147	104013687	-0.012567603	PASS
H3F3A	1	226061851	226072001	-0.256698369	PASS
H3F3B	17	75776434	75785893	0.088516311	PASS
H3F3C	12	31791185	31792241	0.362961408	suppress_segment_too_large
H6PD	1	9234775	9271337	0.373964873	suppress_segment_too_large
HAAO	2	42767089	42792593	0.040498426	PASS
HABP2	10	113550837	113589602	0.063874692	PASS
HABP4	9	96450201	96491336	0.365190713	suppress_segment_too_large
HACD1	10	17589032	17617377	0.039811807	PASS
HACD2	3	123490820	123585185	0.313454204	suppress_segment_too_large
HACD3	15	65530418	65578352	-0.697600509	PASS
HACD4	9	20999515	21031636	-0.310444659	PASS
HACE1	6	104728093	104859919	-0.368590549	PASS
HACL1	3	15560704	15601852	0.311018244	suppress_segment_too_large
HADH	4	107989714	108035175	-0.011382299	PASS
HADHA	2	26190635	26244726	0.040498426	PASS
HADHB	2	26243170	26290468	0.040498426	PASS
HAGH	16	1795620	1827194	0.069936844	PASS
HAGHL	16	726936	735525	0.069936844	PASS
HAL	12	95972662	95996365	0.202141228	PASS
HAMP	19	35280716	35285143	0.093487731	suppress_segment_too_large
HAND1	5	154474972	154478264	-0.293443042	PASS
HAND2	4	173524969	173530229	-0.011382299	PASS
HAO1	20	7882981	7940474	-0.168668583	PASS
HAO2	1	119368779	119394130	-0.157385092	PASS
HAP1	17	41717742	41734644	0.060555011	PASS
HAPLN1	5	83637805	83721613	-0.293443042	PASS

HAPLN2	1	156619294	156625725	0.103015788	PASS
HAPLN3	15	88877288	88895626	-0.697600509	PASS
HAPLN4	19	19255641	19262796	0.093487731	suppress_segment_too_large
HARBI1	11	46602861	46617909	0.117376172	PASS
HARS	5	140673904	140691862	-0.293443042	PASS
HARS2	5	140691426	140699318	-0.293443042	PASS
HAS1	19	51713112	51723994	-0.016761391	PASS
HAS2	8	121612116	121641390	0.279445683	PASS
HAS3	16	69105564	69118719	-0.371357732	PASS
HASPIN	17	3723903	3726699	0.128406487	PASS
HAT1	2	171922448	171983682	0.039726562	PASS
HAUS1	18	46104332	46128333	-0.376397843	PASS
HAUS2	15	42548810	42569994	-0.396255771	PASS
HAUS3	4	2227464	2242164	0.279089364	PASS
HAUS4	14	22946228	22957161	0.060212819	PASS
HAUS5	19	35612744	35625349	0.093487731	suppress_segment_too_large
HAUS6	9	19053143	19103119	-0.310444659	PASS
HAUS7	23	153447666	153495516	-0.012567603	PASS
HAUS8	19	17049729	17075625	0.093487731	suppress_segment_too_large
HAVCR1	5	157029413	157059119	-0.293443042	PASS
HAVCR2	5	157085832	157142869	-0.293443042	PASS
HAX1	1	154272511	154275875	0.103015788	PASS
HBA1	16	176680	177522	0.069936844	PASS
HBA2	16	172876	173710	0.069936844	PASS
HBB	11	5225464	5229395	-0.957525224	PASS
HBD	11	5232678	5243657	-0.957525224	PASS
HBE1	11	5268345	5505652	-0.957525224	PASS
HBEGF	5	140332843	140346631	-0.293443042	PASS
HBG1	11	5248079	5249859	-0.957525224	PASS
HBG2	11	5253190	5505605	-0.957525224	PASS
HBM	16	153892	166768	0.069936844	PASS
HBP1	7	107168961	107202529	-0.388946609	PASS
HBQ1	16	180453	181181	0.069936844	PASS
HBS1L	6	134960378	135103056	-0.035448111	PASS
HBZ	16	152687	154503	0.069936844	PASS
HCAR1	12	122726076	122730843	0.202141228	PASS
HCAR2	12	122701293	122703343	0.202141228	PASS
HCAR3	12	122714756	122716892	0.202141228	PASS
HCCS	23	11111301	11123078	-0.012567603	PASS
HCFC1	23	153947553	153971807	-0.012567603	PASS
HCFC1R1	16	3022620	3024286	0.069936844	PASS
HCFC2	12	104064457	104106524	0.202141228	PASS
HCK	20	32052188	32101856	-0.168668583	PASS
HCLS1	3	121631399	121660927	0.313454204	suppress_segment_too_large
HCN1	5	45254950	45696498	-0.293443042	PASS
HCN2	19	589893	617159	0.079632875	PASS

HCN3	1	155277583	155289848	0.103015788	PASS
HCN4	15	73319859	73369264	-0.697600509	PASS
HCRT	17	42184060	42185452	0.060555011	PASS
HCRTR1	1	31617686	31632518	0.033763446	PASS
HCRTR2	6	55106460	55282620	0.048820648	PASS
HCST	19	35902480	35904377	0.093487731	suppress_segment_too_large
HDAC1	1	32292086	32333635	0.033763446	PASS
HDAC10	22	50245183	50251405	-0.808211634	PASS
HDAC11	3	13479724	13506424	0.311018244	suppress_segment_too_large
HDAC2	6	113933028	114011308	-0.368590549	PASS
HDAC3	5	141620876	141636870	-0.293443042	PASS
HDAC4	2	239048168	239401654	0.025928102	PASS
HDAC5	17	44076746	44123702	0.088516311	PASS
HDAC6	23	48801377	48824982	-0.012567603	PASS
HDAC7	12	47782722	47833132	-0.202191512	PASS
HDAC8	23	72329516	72573199	-0.012567603	PASS
HDAC9	7	18086949	19002416	-0.69513118	PASS
HDC	15	50241947	50266026	-0.396255771	PASS
HDDC2	6	125219962	125302078	-0.458570262	PASS
HDDC3	15	90929964	90935196	-0.697600509	PASS
HDGF	1	156742107	156766925	0.103015788	PASS
HDGFL1	6	22569493	22571666	0.048820648	PASS
HDGFL2	19	4472287	4502211	0.079632875	PASS
HDGFL3	15	83112738	83208018	-0.697600509	PASS
HDHD2	18	47107403	47150520	-0.376397843	PASS
HDHD3	9	113373419	113376999	0.365190713	suppress_segment_too_large
HDHD5	22	17137511	17165287	-0.575930959	PASS
HDLBP	2	241227264	241317061	0.025928102	PASS
HDX	23	84317874	84502479	-0.012567603	PASS
HEATR1	1	236549005	236604504	-0.256698369	PASS
HEATR3	16	50065941	50106387	0.069936844	PASS
HEATR4	14	73478484	73558947	0.060212819	PASS
HEATR5A	14	31291791	31420582	0.060212819	PASS
HEATR5B	2	36968383	37084342	0.040498426	PASS
HEATR6	17	60043194	60078931	0.088516311	PASS
HEATR9	17	35854946	35868891	0.060555011	PASS
HEBP1	12	12974864	13000273	0.362961408	suppress_segment_too_large
HEBP2	6	138403531	138422197	-0.035448111	PASS
HECA	6	139135112	139180802	-0.035448111	PASS
HECTD1	14	31100112	31207804	0.060212819	PASS
HECTD2	10	91409280	91514829	-0.39678585	PASS
HECTD3	1	45002540	45011329	0.033763446	PASS
HECTD4	12	112160188	112382439	0.202141228	PASS
HECW1	7	43112599	43566001	-0.69513118	PASS
HECW2	2	196189099	196593692	0.025928102	PASS
HEG1	3	124965710	125055958	0.313454204	suppress_segment_too_large

HELB	12	66302545	66347645	-0.202191512	PASS
HELLS	10	94501434	94613905	-0.39678585	PASS
HELQ	4	83407343	83455856	-0.011382299	PASS
HELT	4	185018841	185020804	-0.462744716	PASS
HELZ	17	67070438	67245989	0.088516311	PASS
HELZ2	20	63558086	63574239	-0.168668583	PASS
HEMGN	9	97926791	97944856	0.365190713	suppress_segment_too_large
HEMK1	3	50569152	50596168	-0.234617007	PASS
HENMT1	1	108648290	108661526	0.033763446	PASS
HEPACAM	11	124919193	124936412	-0.419612865	PASS
HEPACAM	7	93188586	93226524	-0.262778904	PASS
HEPH	23	66162549	66268867	-0.012567603	PASS
HEPHL1	11	94021361	94113751	0.062969153	PASS
HEPN1	11	124919244	124920677	-0.419612865	PASS
HERC1	15	63608618	63833942	-0.697600509	PASS
HERC2	15	28111040	28322152	-0.396255771	PASS
HERC3	4	88592423	88708542	-0.011382299	PASS
HERC4	10	67921899	68075348	0.072405807	PASS
HERC5	4	88457117	88506163	-0.011382299	PASS
HERC6	4	88378739	88443111	-0.011382299	PASS
HERPUD1	16	56932048	56944863	-0.371357732	PASS
HERPUD2	7	35632659	35695571	-0.69513118	PASS
HES1	3	194136145	194138732	0.326834516	PASS
HES2	1	6412418	6424670	0.373964873	suppress_segment_too_large
HES3	1	6244192	6245578	0.373964873	suppress_segment_too_large
HES4	1	998962	1000172	0.373964873	suppress_segment_too_large
HES5	1	2528745	2530245	0.373964873	suppress_segment_too_large
HES6	2	238238267	238240662	0.025928102	PASS
HES7	17	8120590	8124092	0.128406487	PASS
HESX1	3	57197838	57227606	-0.234617007	PASS
HEXA	15	72340919	72376476	-0.697600509	PASS
HEXB	5	74640023	74722647	-0.293443042	PASS
HEXDC	17	82418318	82442645	0.088516311	PASS
HEXIM1	17	45148502	45152101	0.088516311	PASS
HEXIM2	17	45160700	45170040	0.088516311	PASS
HEY1	8	79764010	79767863	0.279445683	PASS
HEY2	6	125747664	125761269	-0.458570262	PASS
HEYL	1	39624153	39639945	0.033763446	PASS
HFE	6	26087281	26098343	0.048820648	PASS
HFM1	1	91260766	91404869	0.033763446	PASS
HGD	3	120628173	120682571	0.313454204	suppress_segment_too_large
HGF	7	81699008	81770438	-0.262778904	PASS
HGFAC	4	3441887	3449495	0.279089364	PASS
HGH1	8	144137769	144140843	0.307788765	PASS
HGS	17	81683326	81703138	0.088516311	PASS
HGSNAT	8	43140455	43202855	-0.201142258	PASS

HHAT	1	210328252	210676296	-0.256698369	PASS
HHATL	3	42692663	42702827	-0.234617007	PASS
HHEX	10	92689951	92695646	-0.39678585	PASS
HHIP	4	144646021	144745271	-0.011382299	PASS
HHIPL1	14	99645110	99680569	-0.192197564	PASS
HHIPL2	1	222522258	222548103	-0.256698369	PASS
HHLA1	8	132061486	132111159	0.113969953	PASS
HHLA2	3	108296490	108378285	0.313454204	suppress_segment_too_large
HHLA3	1	70354805	70385339	0.033763446	PASS
HIBADH	7	27525442	27662995	-0.69513118	PASS
HIBCH	2	190189735	190344193	0.025928102	PASS
HIC1	17	2054154	2063241	0.128406487	PASS
HIC2	22	21417404	21451463	-0.575930959	PASS
HID1	17	74950743	74973166	0.088516311	PASS
HIF1A	14	61695513	61748259	0.060212819	PASS
HIF1AN	10	100529072	100559998	-0.367947924	PASS
HIF3A	19	46297046	46343433	0.14996833	PASS
HIGD1A	3	42784298	42804531	-0.234617007	PASS
HIGD1B	17	44846353	44850480	0.088516311	PASS
HIGD1C	12	50953922	50970506	-0.202191512	PASS
HIGD2A	5	176388747	176389771	-0.150979337	PASS
HIGD2B	15	72675782	72686149	-0.697600509	PASS
HIKESHI	11	86302211	86345931	0.062969153	PASS
HILPDA	7	128455849	128458418	-0.388946609	PASS
HINFP	11	119121587	119136044	-0.356188624	PASS
HINT1	5	131159027	131171735	-0.293443042	PASS
HINT2	9	35812960	35815354	-0.310444659	PASS
HINT3	6	125956781	125980244	-0.458570262	PASS
HIP1	7	75533300	75738962	-0.262778904	PASS
HIP1R	12	122834453	122862960	0.202141228	PASS
HIPK1	1	113929192	113977869	0.033763446	PASS
HIPK2	7	139561570	139777778	-0.388946609	PASS
HIPK3	11	33256672	33357023	-0.405444717	PASS
HIPK4	19	40379271	40390187	0.093487731	suppress_segment_too_large
HIRA	22	19330698	19447450	-0.575930959	PASS
HIRIP3	16	29992321	29996436	0.069936844	PASS
HIST1H1A	6	26017085	26017732	0.048820648	PASS
HIST1H1B	6	27866849	27867529	0.048820648	PASS
HIST1H1C	6	26055787	26056428	0.048820648	PASS
HIST1H1D	6	26234268	26234933	0.048820648	PASS
HIST1H1E	6	26156354	26157107	0.048820648	PASS
HIST1H1T	6	26107419	26108136	0.048820648	PASS
HIST1H2A	6	25726132	25726527	0.048820648	PASS
HIST1H2A	6	26033176	26033568	0.048820648	PASS
HIST1H2A	6	26124145	26139116	0.048820648	PASS
HIST1H2A	6	26198851	26199243	0.048820648	PASS

HIST1H2A	6	26216975	26217483	0.048820648	PASS
HIST1H2A	6	27133042	27135291	0.048820648	PASS
HIST1H2A	6	27147129	27147515	0.048820648	PASS
HIST1H2A	6	27808199	27808701	0.048820648	PASS
HIST1H2A	6	27814354	27814740	0.048820648	PASS
HIST1H2A	6	27837947	27838339	0.048820648	PASS
HIST1H2A	6	27865355	27865747	0.048820648	PASS
HIST1H2A	6	27892757	27893149	0.048820648	PASS
HIST1H2B	6	25726777	25727292	0.048820648	PASS
HIST1H2B	6	26043277	26043657	0.048820648	PASS
HIST1H2B	6	26114873	26123926	0.048820648	PASS
HIST1H2B	6	26158146	26171349	0.048820648	PASS
HIST1H2B	6	26172059	26184655	0.048820648	PASS
HIST1H2B	6	26199520	26200715	0.048820648	PASS
HIST1H2B	6	26215159	26216692	0.048820648	PASS
HIST1H2B	6	26251651	26253710	0.048820648	PASS
HIST1H2B	6	26272976	26273356	0.048820648	PASS
HIST1H2B	6	27125897	27132750	0.048820648	PASS
HIST1H2B	6	27146418	27146798	0.048820648	PASS
HIST1H2B	6	27807444	27807931	0.048820648	PASS
HIST1H2B	6	27815044	27815424	0.048820648	PASS
HIST1H2B	6	27837760	27865798	0.048820648	PASS
HIST1H2B	6	27893463	27893843	0.048820648	PASS
HIST1H3A	6	26020490	26020900	0.048820648	PASS
HIST1H3B	6	26031650	26032060	0.048820648	PASS
HIST1H3C	6	26045411	26045821	0.048820648	PASS
HIST1H3D	6	26196840	26197250	0.048820648	PASS
HIST1H3E	6	26224199	26227473	0.048820648	PASS
HIST1H3F	6	26250195	26250605	0.048820648	PASS
HIST1H3G	6	26269405	26271815	0.048820648	PASS
HIST1H3H	6	27810064	27811300	0.048820648	PASS
HIST1H3I	6	27871905	27872315	0.048820648	PASS
HIST1H3J	6	27890382	27893106	0.048820648	PASS
HIST1H4A	6	26021679	26021990	0.048820648	PASS
HIST1H4B	6	26026815	26027252	0.048820648	PASS
HIST1H4C	6	26103876	26104310	0.048820648	PASS
HIST1H4D	6	26188765	26189076	0.048820648	PASS
HIST1H4E	6	26204552	26206038	0.048820648	PASS
HIST1H4F	6	26240426	26240737	0.048820648	PASS
HIST1H4G	6	26246681	26246977	0.048820648	PASS
HIST1H4H	6	26277609	26285638	0.048820648	PASS
HIST1H4I	6	27138588	27139881	0.048820648	PASS
HIST1H4J	6	27824108	27824480	0.048820648	PASS
HIST1H4K	6	27831216	27831527	0.048820648	PASS
HIST1H4L	6	27873199	27873510	0.048820648	PASS
HIST2H2A	1	149887524	149887916	0.103015788	PASS

HIST2H2A	1	149886975	149887364	0.103015788	PASS
HIST2H2B	1	149884459	149886652	0.103015788	PASS
HIST2H2B	1	149782689	149812373	-0.157385092	PASS
HIST2H3D	1	149813271	149813681	0.103015788	PASS
HIST2H3P	1	143905556	143905966	-0.157385092	PASS
HIST3H2A	1	228456979	228457873	-0.256698369	PASS
HIST3H2B	1	228458107	228460470	-0.256698369	PASS
HIST3H3	1	228424845	228425325	-0.256698369	PASS
HIST4H4	12	14767999	14771131	0.362961408	suppress_segment_too_large
HIVEP1	6	12008762	12164999	0.048820648	PASS
HIVEP2	6	142751467	142956698	-0.035448111	PASS
HIVEP3	1	41506365	42035925	0.033763446	PASS
HJURP	2	233833416	233854566	0.025928102	PASS
HJV	1	146017468	146036746	-0.157385092	PASS
HK1	10	69269984	69401884	0.072405807	PASS
HK2	2	74833981	74893359	-0.372959126	PASS
HK3	5	176880869	176899332	-0.150979337	PASS
HKDC1	10	69220303	69267559	0.072405807	PASS
HKR1	19	37312837	37369365	0.093487731	suppress_segment_too_large
HLA-A	6	29941260	29945884	0.048820648	PASS
HLA-B	6	31269491	31357188	0.048820648	PASS
HLA-C	6	31268749	31272130	0.048820648	PASS
HLA-DMA	6	32948613	32969094	0.048820648	PASS
HLA-DMB	6	32934629	32941070	0.048820648	PASS
HLA-DOA	6	33004178	33009612	0.048820648	PASS
HLA-DOB	6	32812763	32820466	0.048820648	PASS
HLA-DPA1	6	33064569	33080775	0.048820648	PASS
HLA-DPB1	6	33075926	33087201	0.048820648	PASS
HLA-DQA	6	32628179	32647062	0.048820648	PASS
HLA-DQA	6	32741342	32747215	0.048820648	PASS
HLA-DQB	6	32659467	32668383	0.048820648	PASS
HLA-DQB1	6	32756098	32763534	0.048820648	PASS
HLA-DRA	6	32439842	32445046	0.048820648	PASS
HLA-DRB1	6	32578769	32589848	0.048820648	PASS
HLA-DRB5	6	32517343	32530287	0.048820648	PASS
HLA-E	6	30489467	30494205	0.048820648	PASS
HLA-F	6	29722775	29738528	0.048820648	PASS
HLA-G	6	29826967	29831125	0.048820648	PASS
HLCS	21	36750888	36990236	-0.064425456	suppress_segment_too_large
HLF	17	55265012	55325065	0.088516311	PASS
HLTF	3	149030127	149086554	0.318278996	suppress_segment_too_large
HLX	1	220879400	220885059	-0.256698369	PASS
HM13	20	31514410	31577923	-0.168668583	PASS
HMBOX1	8	28890394	29064764	-0.345962679	PASS
HMBS	11	119084866	119093549	-0.356188624	PASS
HMCES	3	129278828	129306186	0.313454204	suppress_segment_too_large

HMCN1	1	185734551	186190949	-0.027073548	PASS
HMCN2	9	130265882	130434123	0.365190713	suppress_segment_too_large
HMG20A	15	77420412	77485607	-0.697600509	PASS
HMG20B	19	3572777	3579088	0.079632875	PASS
HMGA1	6	34236873	34246231	0.048820648	PASS
HMGA2	12	65824131	65966295	-0.202191512	PASS
HMGB1	13	30456704	30617597	-0.390786075	PASS
HMGB2	4	173331695	173335125	-0.011382299	PASS
HMGB3	23	150980509	150990775	-0.012567603	PASS
HMGB4	1	33860475	33864791	0.033763446	PASS
HMGCL	1	23801885	23838620	0.033763446	PASS
HMGCLL1	6	55434369	55579214	0.048820648	PASS
HMGCR	5	75336329	75362104	-0.293443042	PASS
HMGCS1	5	43289395	43313512	-0.293443042	PASS
HMGCS2	1	119747996	119768905	-0.157385092	PASS
HMGN1	21	39342315	39349647	-0.064425456	suppress_segment_too_large
HMGN2	1	26472450	26475972	0.033763446	PASS
HMGN3	6	79201245	79234738	-0.368590549	PASS
HMGN4	6	26538405	26546254	0.048820648	PASS
HMGN5	23	81113701	81201942	-0.012567603	PASS
HMGXB3	5	150000046	150053142	-0.293443042	PASS
HMGXB4	22	35257452	35295807	-0.575930959	PASS
HMHB1	5	143812161	143820719	-0.293443042	PASS
HMMR	5	163460203	163491945	-0.150979337	PASS
HMOX1	22	35380361	35394214	-0.575930959	PASS
HMOX2	16	4474690	4510347	0.069936844	PASS
HMSD	18	63949301	63981774	-0.376397843	PASS
HMX1	4	8846076	8871817	0.279089364	PASS
HMX2	10	123148122	123150672	0.063874692	PASS
HMX3	10	123135962	123137741	0.063874692	PASS
HNF1A	12	120978543	121002512	0.202141228	PASS
HNF1B	17	37686432	37745247	0.060555011	PASS
HNF4A	20	44355700	44434596	-0.168668583	PASS
HNF4G	8	75407914	75566843	-0.201142258	PASS
HNMT	2	137964020	138016364	-0.475215623	PASS
HNRNPA0	5	137745651	137754376	-0.293443042	PASS
HNRNPA1	12	54280193	54287088	-0.202191512	PASS
HNRNPA1	13	52642425	52643796	-0.390786075	PASS
HNRNPA1	16	51553436	51647132	-0.371357732	PASS
HNRNPA2	7	26173057	26201529	-0.69513118	PASS
HNRNPA3	2	177212563	177223958	0.039726562	PASS
HNRNPAE	5	178204507	178211163	-0.150979337	PASS
HNRNPC	14	21209136	21269494	0.060212819	PASS
HNRNPCL	1	12847408	12848725	-0.415253068	PASS
HNRNPCL	1	13115496	13116854	-0.415253068	PASS
HNRNPCL	1	13060869	13062229	-0.415253068	PASS

HNRNPD	4	82352498	82374503	-0.011382299	PASS
HNRNPDL	4	82422564	82430408	-0.011382299	PASS
HNRNPF	10	43385617	43409166	-0.404852538	PASS
HNRNPH1	5	179614178	179634784	-0.150979337	PASS
HNRNPH2	23	101408295	101414133	-0.012567603	PASS
HNRNPH3	10	68331174	68343191	0.072405807	PASS
HNRNPK	9	83968083	83980616	0.365190713	suppress_segment_too_large
HNRNPL	19	38836388	38852347	0.093487731	suppress_segment_too_large
HNRNPLL	2	38561978	38603586	0.040498426	PASS
HNRNPM	19	8444767	8489114	0.079632875	PASS
HNRNPR	1	23303771	23344336	0.033763446	PASS
HNRNPU	1	244840638	244864560	-0.368111568	PASS
HNRNPUL	19	41262496	41307598	0.093487731	suppress_segment_too_large
HNRNPUL	11	62712630	62727472	0.182439925	suppress_segment_too_large
HNRNPUL	11	62690275	62727384	0.182439925	suppress_segment_too_large
HOGA1	10	97584323	97612802	-0.367947924	PASS
HOMER1	5	79372636	79514217	-0.293443042	PASS
HOMER2	15	82836946	82986153	-0.697600509	PASS
HOMER3	19	18929201	18941261	0.093487731	suppress_segment_too_large
HOMEZ	14	23272422	23299447	0.060212819	PASS
HOOK1	1	59814786	59876378	0.033763446	PASS
HOOK2	19	12763003	12872740	0.093487731	suppress_segment_too_large
HOOK3	8	42896932	43030539	-0.201142258	PASS
HOPX	4	56647988	56681899	-0.011382299	PASS
HORMAD	1	150698060	150720888	0.103015788	PASS
HORMAD2	22	30080174	30177075	-0.575930959	PASS
HOXA1	7	27092993	27095996	-0.69513118	PASS
HOXA10	7	27170591	27180261	-0.69513118	PASS
HOXA11	7	27181510	27185223	-0.69513118	PASS
HOXA13	7	27193503	27200106	-0.69513118	PASS
HOXA2	7	27100354	27102811	-0.69513118	PASS
HOXA3	7	27106184	27152581	-0.69513118	PASS
HOXA4	7	27128507	27130799	-0.69513118	PASS
HOXA5	7	27141052	27143668	-0.69513118	PASS
HOXA6	7	27145396	27150603	-0.69513118	PASS
HOXA7	7	27153716	27157936	-0.69513118	PASS
HOXA9	7	27162435	27175180	-0.69513118	PASS
HOXB1	17	48528526	48531001	0.088516311	PASS
HOXB13	17	48724763	48729178	0.088516311	PASS
HOXB2	17	48540894	48544989	0.088516311	PASS
HOXB3	17	48548870	48604912	0.088516311	PASS
HOXB4	17	48575513	48580111	0.088516311	PASS
HOXB5	17	48591257	48593961	0.088516311	PASS
HOXB6	17	48595751	48604992	0.088516311	PASS
HOXB7	17	48607227	48633572	0.088516311	PASS
HOXB8	17	48611377	48614939	0.088516311	PASS

HOXB9	17	48621159	48626356	0.088516311	PASS
HOXC10	12	53985065	53990279	-0.202191512	PASS
HOXC11	12	53973126	53977643	-0.202191512	PASS
HOXC12	12	53954834	53958956	-0.202191512	PASS
HOXC13	12	53938765	53946544	-0.202191512	PASS
HOXC4	12	54016931	54056030	-0.202191512	PASS
HOXC5	12	54032853	54035358	-0.202191512	PASS
HOXC6	12	53990624	54030823	-0.202191512	PASS
HOXC8	12	54009106	54012362	-0.202191512	PASS
HOXC9	12	53994895	54003337	-0.202191512	PASS
HOXD1	2	176188579	176190907	0.039726562	PASS
HOXD10	2	176108790	176119942	0.039726562	PASS
HOXD11	2	176104216	176109754	0.039726562	PASS
HOXD12	2	176099730	176101193	0.039726562	PASS
HOXD13	2	176092891	176095938	0.039726562	PASS
HOXD3	2	176136612	176173102	0.039726562	PASS
HOXD4	2	176151222	176153226	0.039726562	PASS
HOXD8	2	176129694	176132695	0.039726562	PASS
HOXD9	2	176122720	176124937	0.039726562	PASS
HP	16	72054592	72061055	-0.371357732	PASS
HP1BP3	1	20742661	20787323	0.033763446	PASS
HPCA	1	32885994	32898441	0.033763446	PASS
HPCAL1	2	10302889	10427617	0.040498426	PASS
HPCAL4	1	39678648	39691689	0.033763446	PASS
HPD	12	121839527	121863596	0.202141228	PASS
HPDL	1	45326905	45328533	0.033763446	PASS
HPF1	4	169729465	169757953	-0.011382299	PASS
HPGD	4	174490177	174523154	-0.011382299	PASS
HPGDS	4	94298535	94342876	-0.011382299	PASS
HPN	19	35040506	35066571	0.093487731	suppress_segment_too_large
HPR	16	72063148	72077246	-0.371357732	PASS
HPRT1	23	134460153	134520513	-0.012567603	PASS
HPS1	10	98416198	98446947	-0.367947924	PASS
HPS3	3	149129584	149173732	0.318278996	suppress_segment_too_large
HPS4	22	26443423	26483837	-0.575930959	PASS
HPS5	11	18278668	18322198	-0.405444717	PASS
HPS6	10	102065390	102068038	-0.367947924	PASS
HPSE	4	83292461	83335153	-0.011382299	PASS
HPSE2	10	98457077	99235862	-0.367947924	PASS
HPX	11	6431049	6442617	-0.405444717	PASS
HR	8	22114415	22133384	-0.345962679	PASS
HRAS	11	532242	537287	-0.333835828	PASS
HRASLS	3	193241125	193277738	-0.627320105	PASS
HRASLS2	11	63552770	63563383	0.182439925	suppress_segment_too_large
HRASLS5	11	63461404	63491194	0.182439925	suppress_segment_too_large
HRC	19	49151198	49155424	0.14996833	PASS

HRCT1	9	35906192	35907141	-0.310444659	PASS
HRG	3	186660216	186678240	0.318278996	suppress_segment_too_large
HRH1	3	11137093	11263557	0.311018244	suppress_segment_too_large
HRH2	5	175658030	175710756	-0.150979337	PASS
HRH3	20	62214970	62220267	-0.168668583	PASS
HRH4	18	24460629	24479957	-0.376397843	PASS
HRK	12	116856144	116881441	0.202141228	PASS
HRNR	1	152212082	152224193	0.103015788	PASS
HS1BP3	2	20560448	20651089	0.040498426	PASS
HS2ST1	1	86914648	87109998	0.033763446	PASS
HS3ST1	4	11393150	11429765	0.279089364	PASS
HS3ST2	16	22814177	22916338	0.069936844	PASS
HS3ST3A1	17	13495689	13601927	-0.139031004	PASS
HS3ST3B1	17	14301083	14349404	-0.139031004	PASS
HS3ST4	16	25692026	26137688	0.069936844	PASS
HS3ST5	6	114055586	114343045	-0.368590549	PASS
HS3ST6	16	1911463	1918440	0.069936844	PASS
HS6ST1	2	128236716	128318577	-0.475215623	PASS
HS6ST2	23	132626016	132961395	-0.012567603	PASS
HS6ST3	13	96090839	96839562	-0.390786075	PASS
HSBP1	16	83807843	83819737	-0.371357732	PASS
HSBP1L1	18	79964561	79970822	-0.376397843	PASS
HSCB	22	28742031	28757515	-0.575930959	PASS
HSD11B1	1	209686178	209734950	-0.256698369	PASS
HSD11B1L	19	5680604	5688523	0.079632875	PASS
HSD11B2	16	67430652	67437553	-0.371357732	PASS
HSD17B1	17	42549214	42555213	0.088516311	PASS
HSD17B10	23	53431258	53434373	-0.012567603	PASS
HSD17B11	4	87336610	87391386	-0.011382299	PASS
HSD17B12	11	43680558	43856617	0.117376172	PASS
HSD17B13	4	87303789	87322906	-0.011382299	PASS
HSD17B14	19	48813017	48836678	0.14996833	PASS
HSD17B2	16	82035004	82098534	-0.371357732	PASS
HSD17B3	9	96235306	96302176	0.365190713	suppress_segment_too_large
HSD17B4	5	119452443	119637199	-0.293443042	PASS
HSD17B6	12	56752161	56787790	-0.202191512	PASS
HSD17B7	1	162790702	162812817	-0.027073548	PASS
HSD17B8	6	33204642	33206831	0.048820648	PASS
HSD3B1	1	119507198	119515054	-0.157385092	PASS
HSD3B2	1	119414931	119423035	-0.157385092	PASS
HSD3B7	16	30985207	30989152	0.069936844	PASS
HSDL1	16	84122146	84145192	-0.371357732	PASS
HSDL2	9	112379937	112472410	0.365190713	suppress_segment_too_large
HSF1	8	144291591	144314722	0.307788765	PASS
HSF2	6	122399546	122433119	-0.368590549	PASS
HSF2BP	21	43529192	43659493	-0.064425456	suppress_segment_too_large

HSF4	16	67164681	67169945	-0.371357732	PASS
HSF5	17	58420167	58488384	0.088516311	PASS
HSFX1	23	149774068	149776867	-0.012567603	PASS
HSFX3	23	149548210	149549932	-0.012567603	PASS
HSFX4	23	149929645	149931287	-0.012567603	PASS
HSH2D	19	16134028	16158575	0.093487731	suppress_segment_too_large
HSP90AA1	14	102080738	102139699	-0.192197564	PASS
HSP90AB1	6	44246166	44253888	0.048820648	PASS
HSP90B1	12	103930107	103953645	0.202141228	PASS
HSPA12A	10	116671192	116850236	0.063874692	PASS
HSPA12B	20	3732667	3753111	-0.168668583	PASS
HSPA13	21	14371115	14383484	-0.304975024	PASS
HSPA14	10	14838160	14871741	0.039811807	PASS
HSPA1A	6	31815464	31817946	0.048820648	PASS
HSPA1B	6	31827735	31830255	0.048820648	PASS
HSPA1L	6	31809619	31815065	0.048820648	PASS
HSPA2	14	64535905	64546173	0.060212819	PASS
HSPA4	5	133051962	133106449	-0.293443042	PASS
HSPA4L	4	127781821	127840733	-0.011382299	PASS
HSPA5	9	125234853	125241330	0.365190713	suppress_segment_too_large
HSPA6	1	161524540	161526910	-0.027073548	PASS
HSPA8	11	123057489	123063230	-0.356188624	PASS
HSPA9	5	138553756	138575724	-0.293443042	PASS
HSPB1	7	76302544	76304295	-0.262778904	PASS
HSPB11	1	53916574	53945929	0.033763446	PASS
HSPB2	11	111912242	111914093	-0.356188624	PASS
HSPB2-C1	11	111912736	111926871	-0.356188624	PASS
HSPB3	5	54455601	54456384	-0.293443042	PASS
HSPB6	19	35754569	35758079	0.093487731	suppress_segment_too_large
HSPB7	1	16014028	16019594	0.033763446	PASS
HSPB8	12	119178642	119221131	0.202141228	PASS
HSPB9	17	42121431	42123352	0.060555011	PASS
HSPBAP1	3	122740003	122793824	0.313454204	suppress_segment_too_large
HSPBP1	19	55262231	55280381	0.121336758	PASS
HSPD1	2	197486581	197516737	0.025928102	PASS
HSPE1	2	197499994	197503457	0.025928102	PASS
HSPE1-MC	2	197500413	197550726	0.025928102	PASS
HSPG2	1	21822245	21937297	0.033763446	PASS
HSPH1	13	31134974	31162388	-0.390786075	PASS
HTATIP2	11	20363685	20383783	-0.405444717	PASS
HTATSF1	23	136497079	136512346	-0.012567603	PASS
HTD2	3	58306262	58318574	-0.234617007	PASS
HTN1	4	70050402	70058845	-0.011382299	PASS
HTN3	4	70028413	70036538	-0.011382299	PASS
HTR1A	5	63960356	63962507	-0.293443042	PASS
HTR1B	6	77461753	77463773	-0.368590549	PASS

HTR1D	1	23191895	23194729	0.033763446	PASS
HTR1E	6	86937306	87016683	-0.368590549	PASS
HTR1F	3	87990696	87993835	0.313454204	suppress_segment_too_large
HTR2A	13	46831550	46897076	-0.390786075	PASS
HTR2B	2	231108230	231125118	0.025928102	PASS
HTR2C	23	114584078	114910061	-0.012567603	PASS
HTR3A	11	113974881	113990313	-0.356188624	PASS
HTR3B	11	113904677	113946565	-0.356188624	PASS
HTR3C	3	184053047	184060671	0.318278996	suppress_segment_too_large
HTR3D	3	184031544	184039369	0.318278996	suppress_segment_too_large
HTR3E	3	184097064	184106995	0.318278996	suppress_segment_too_large
HTR4	5	148451032	148677235	-0.293443042	PASS
HTR5A	7	155070324	155087392	-0.411415677	PASS
HTR6	1	19665287	19679562	0.033763446	PASS
HTR7	10	90740823	90857698	-0.39678585	PASS
HTRA1	10	122458551	122514908	0.063874692	PASS
HTRA2	2	74529377	74533348	-0.372959126	PASS
HTRA3	4	8269765	8307111	0.279089364	PASS
HTRA4	8	38974164	38988662	-0.201142258	PASS
HTT	4	3041422	3243960	0.279089364	PASS
HUNK	21	31873315	32044633	0.12860881	suppress_segment_too_large
HUS1	7	47963288	47979553	-0.69513118	PASS
HUS1B	6	655939	656963	0.048820648	PASS
HUWE1	23	53532096	53686729	-0.012567603	PASS
HVCN1	12	110627841	110704950	0.202141228	PASS
HYAL1	3	50299889	50312381	-0.234617007	PASS
HYAL2	3	50317790	50322906	-0.234617007	PASS
HYAL3	3	50292831	50299468	-0.234617007	PASS
HYAL4	7	123828983	123877478	-0.388946609	PASS
HYDIN	16	70807378	71230722	-0.371357732	PASS
HYI	1	43451003	43453989	0.033763446	PASS
HYKK	15	78507564	78537372	-0.697600509	PASS
HYLS1	11	125883614	125900648	-0.419612865	PASS
HYOU1	11	119044189	119057202	-0.356188624	PASS
HYPK	15	43796142	43803043	-0.396255771	PASS
HYPM	23	37990817	37991317	-0.012567603	PASS
IAH1	2	9473658	9496543	0.040498426	PASS
IAPP	12	21354959	21379978	0.362961408	suppress_segment_too_large
IARS	9	92210207	92293756	0.365190713	suppress_segment_too_large
IARS2	1	220094102	220148041	-0.256698369	PASS
IBA57	1	228165815	228182257	-0.256698369	PASS
IBSP	4	87799581	87812435	-0.011382299	PASS
IBTK	6	82169983	82247754	-0.368590549	PASS
ICA1	7	8113184	8262687	-0.69513118	PASS
ICA1L	2	202773150	202871985	0.025928102	PASS
ICAM1	19	10270835	10286615	0.093487731	suppress_segment_too_large

ICAM2	17	64002594	64020634	0.088516311	PASS
ICAM3	19	10333776	10339823	0.093487731	suppress_segment_too_large
ICAM4	19	10286967	10288522	0.093487731	suppress_segment_too_large
ICAM5	19	10289981	10296778	0.093487731	suppress_segment_too_large
ICE1	5	5420664	5490234	0.055007813	PASS
ICE2	15	60419609	60479160	-0.697600509	PASS
ICK	6	53001279	53061802	0.048820648	PASS
ICMT	1	6221193	6235972	0.373964873	suppress_segment_too_large
ICOS	2	203936748	203961577	0.025928102	PASS
ID1	20	31605283	31606515	-0.168668583	PASS
ID2	2	8678845	8684453	0.040498426	PASS
ID3	1	23557918	23559794	0.033763446	PASS
ID4	6	19837386	19840684	0.048820648	PASS
IDE	10	92451684	92574076	-0.39678585	PASS
IDH1	2	208236227	208266074	0.025928102	PASS
IDH2	15	90083045	90102504	-0.697600509	PASS
IDH3A	15	78131498	78171949	-0.697600509	PASS
IDH3B	20	2658395	2664219	-0.168668583	PASS
IDH3G	23	153785766	153794523	-0.012567603	PASS
IDI1	10	1039152	1049170	0.039811807	PASS
IDI2	10	1018907	1025859	0.039811807	PASS
IDNK	9	83623049	83644130	0.365190713	suppress_segment_too_large
IDO1	8	39902275	39928444	-0.201142258	PASS
IDO2	8	39934614	40016391	-0.201142258	PASS
IDS	23	149476990	149521096	-0.012567603	PASS
IDUA	4	986997	1004506	0.279089364	PASS
IER2	19	13150415	13154908	0.093487731	suppress_segment_too_large
IER3	6	30743199	30744554	0.048820648	PASS
IER3IP1	18	47152834	47176374	-0.376397843	PASS
IER5	1	181088712	181092899	-0.027073548	PASS
IER5L	9	129175552	129178262	0.365190713	suppress_segment_too_large
IFFO1	12	6538375	6556083	-0.086128028	PASS
IFFO2	1	18904281	18956686	0.033763446	PASS
IFI16	1	158999968	159055155	-0.467855874	PASS
IFI27	14	94104836	94116698	-0.192197564	PASS
IFI27L1	14	94081282	94103846	-0.192197564	PASS
IFI27L2	14	94127779	94130253	-0.192197564	PASS
IFI30	19	18173162	18178117	0.093487731	suppress_segment_too_large
IFI35	17	43006725	43014456	0.088516311	PASS
IFI44	1	78649796	78664078	0.033763446	PASS
IFI44L	1	78619922	78646145	0.033763446	PASS
IFI6	1	27666061	27672218	0.033763446	PASS
IFIH1	2	162267079	162318703	0.039726562	PASS
IFIT1	10	89392546	89406486	-0.39678585	PASS
IFIT1B	10	89378056	89385205	-0.39678585	PASS
IFIT2	10	89283694	89309276	-0.39678585	PASS

IFIT3	10	89327894	89340971	-0.39678585	PASS
IFIT5	10	89414586	89421001	-0.39678585	PASS
IFITM1	11	313506	315272	-0.333835828	PASS
IFITM10	11	1732410	1750591	-0.333835828	PASS
IFITM2	11	307631	315272	-0.333835828	PASS
IFITM3	11	319669	327537	-0.333835828	PASS
IFITM5	11	298200	299526	-0.333835828	PASS
IFNA1	9	21440454	21441316	-0.310444659	PASS
IFNA10	9	21206181	21207143	-0.310444659	PASS
IFNA13	9	21367424	21368962	-0.310444659	PASS
IFNA14	9	21239002	21239991	-0.310444659	PASS
IFNA16	9	21216373	21217311	-0.310444659	PASS
IFNA17	9	21227243	21228222	-0.310444659	PASS
IFNA2	9	21384254	21385388	-0.310444659	PASS
IFNA21	9	21165637	21166660	-0.310444659	PASS
IFNA4	9	21186694	21187671	-0.310444659	PASS
IFNA5	9	21304326	21305312	-0.310444659	PASS
IFNA6	9	21349835	21351378	-0.310444659	PASS
IFNA7	9	21201469	21202205	-0.310444659	PASS
IFNA8	9	21409147	21410185	-0.310444659	PASS
IFNAR1	21	33324477	33359862	0.12860881	suppress_segment_too_large
IFNAR2	21	33229901	33265675	0.12860881	suppress_segment_too_large
IFNB1	9	21077105	21077963	-0.310444659	PASS
IFNE	9	21480839	21482313	-0.310444659	PASS
IFNG	12	68154768	68159747	-0.202191512	PASS
IFNGR1	6	137197484	137219449	-0.035448111	PASS
IFNGR2	21	33402896	33479348	0.12860881	suppress_segment_too_large
IFNK	9	27524314	27526498	-0.310444659	PASS
IFNL1	19	39296325	39298673	0.093487731	suppress_segment_too_large
IFNL2	19	39268514	39270092	0.093487731	suppress_segment_too_large
IFNL3	19	39243553	39245129	0.093487731	suppress_segment_too_large
IFNLR1	1	24154157	24187959	0.033763446	PASS
IFNW1	9	21140214	21142145	-0.310444659	PASS
IFRD1	7	112422968	112481017	-0.388946609	PASS
IFRD2	3	50287732	50292918	-0.234617007	PASS
IFT122	3	129440036	129520507	0.313454204	suppress_segment_too_large
IFT140	16	1510427	1612110	0.069936844	PASS
IFT172	2	27444371	27489789	0.040498426	PASS
IFT20	17	28328325	28335489	0.060555011	PASS
IFT22	7	101313367	101321823	-0.388946609	PASS
IFT27	22	36758202	36776256	-0.575930959	PASS
IFT43	14	75902136	76084585	-0.192197564	PASS
IFT46	11	118544528	118572970	-0.356188624	PASS
IFT52	20	43590931	43647296	-0.168668583	PASS
IFT57	3	108160812	108222570	0.313454204	suppress_segment_too_large
IFT74	9	26947039	27062930	-0.310444659	PASS

IFT80	3	160256986	160399880	0.318278996	suppress_segment_too_large
IFT81	12	110124335	110218797	0.202141228	PASS
IFT88	13	20567069	20691437	-0.390786075	PASS
IGBP1	23	70133449	70166324	-0.012567603	PASS
IGDCC3	15	65327127	65378040	-0.697600509	PASS
IGDCC4	15	65381464	65423072	-0.697600509	PASS
IGF1	12	102395874	102481744	0.202141228	PASS
IGF1R	15	98648539	98964530	-0.697600509	PASS
IGF2	11	2129112	2158658	-0.333835828	PASS
IGF2BP1	17	48997412	49055650	0.088516311	PASS
IGF2BP2	3	185643739	185825056	0.318278996	suppress_segment_too_large
IGF2BP3	7	23310209	23470467	-0.69513118	PASS
IGF2R	6	159969099	160113507	-0.035448111	PASS
IGFALS	16	1790413	1794971	0.069936844	PASS
IGFBP1	7	45888357	45893668	-0.69513118	PASS
IGFBP2	2	216632828	216664436	0.025928102	PASS
IGFBP3	7	45912245	45921874	-0.69513118	PASS
IGFBP4	17	40443461	40457731	0.060555011	PASS
IGFBP5	2	216672105	216695525	0.025928102	PASS
IGFBP6	12	53097436	53102345	-0.202191512	PASS
IGFBP7	4	57030773	57110385	-0.011382299	PASS
IGFBPL1	9	38408994	38424447	-0.310444659	PASS
IGFL1	19	46229752	46231243	0.14996833	PASS
IGFL2	19	46143106	46161299	0.14996833	PASS
IGFL3	19	46120071	46124674	0.14996833	PASS
IGFL4	19	46039748	46077118	0.14996833	PASS
IGFLR1	19	35738801	35742453	0.093487731	suppress_segment_too_large
IGFN1	1	201190825	201228952	-0.256698369	PASS
IGHMBP2	11	68903842	68940602	0.182439925	suppress_segment_too_large
IGIP	5	140125935	140129392	-0.293443042	PASS
IGLL1	22	23573125	23580308	-0.575930959	PASS
IGLL5	22	22887780	22896107	-0.575930959	PASS
IGLON5	19	51311848	51330354	-0.016761391	PASS
IGSF1	23	131273506	131578899	-0.012567603	PASS
IGSF10	3	151425384	151458709	0.318278996	suppress_segment_too_large
IGSF11	3	118900557	119146068	0.313454204	suppress_segment_too_large
IGSF21	1	18107746	18378483	0.033763446	PASS
IGSF22	11	18704305	18726230	-0.405444717	PASS
IGSF23	19	44613630	44636781	0.14996833	PASS
IGSF3	1	116574399	116667755	0.033763446	PASS
IGSF5	21	39745407	39802096	-0.064425456	suppress_segment_too_large
IGSF6	16	21639537	21652660	0.069936844	PASS
IGSF8	1	160091340	160098943	-0.027073548	PASS
IGSF9	1	159927039	159945604	-0.027073548	PASS
IGSF9B	11	133908564	133956985	-0.419612865	PASS
IHH	2	219054420	219060467	0.025928102	PASS

IK	5	140647058	140662479	-0.293443042	PASS
IKBIP	12	98613405	98645113	0.202141228	PASS
IKBKB	8	42271302	42332653	-0.201142258	PASS
IKBKE	1	206470476	206496889	-0.256698369	PASS
IKBKG	23	154541199	154565046	-0.012567603	PASS
IKZF1	7	50304068	50405101	-0.750061359	PASS
IKZF2	2	212999691	213152427	0.025928102	PASS
IKZF3	17	39757715	39864188	0.060555011	PASS
IKZF4	12	56007659	56038435	-0.202191512	PASS
IKZF5	10	122990806	123008817	0.063874692	PASS
IL10	1	206767602	206772494	-0.256698369	PASS
IL10RA	11	117986348	118003037	-0.356188624	PASS
IL10RB	21	33266358	33310187	0.12860881	suppress_segment_too_large
IL11	19	55364389	55370463	0.121336758	PASS
IL11RA	9	34650702	34661892	-0.310444659	PASS
IL12A	3	159988750	159996019	0.318278996	suppress_segment_too_large
IL12B	5	159314783	159330887	-0.150979337	PASS
IL12RB1	19	18058995	18098944	0.093487731	suppress_segment_too_large
IL12RB2	1	67307364	67397090	0.033763446	PASS
IL13	5	132656263	132661110	-0.293443042	PASS
IL13RA1	23	118727572	118794539	-0.012567603	PASS
IL13RA2	23	115003975	115019977	-0.012567603	PASS
IL15	4	141636599	141733987	-0.011382299	PASS
IL15RA	10	5943639	5978187	0.039811807	PASS
IL16	15	81159575	81314058	-0.697600509	PASS
IL17A	6	52186375	52190638	0.048820648	PASS
IL17B	5	149371324	149404202	-0.293443042	PASS
IL17C	16	88638591	88640473	-0.371357732	PASS
IL17D	13	20702127	20723098	-0.390786075	PASS
IL17F	6	52236681	52244537	0.048820648	PASS
IL17RA	22	17084954	17115694	-0.575930959	PASS
IL17RB	3	53846580	53865800	-0.234617007	PASS
IL17RC	3	9917074	9933630	0.311018244	suppress_segment_too_large
IL17RD	3	57089982	57170306	-0.234617007	PASS
IL17RE	3	9902612	9916402	0.311018244	suppress_segment_too_large
IL17REL	22	49994513	50012659	-0.808211634	PASS
IL18	11	112143251	112164117	-0.356188624	PASS
IL18BP	11	71998541	72005715	0.062969153	PASS
IL18R1	2	102311529	102398775	0.048238121	PASS
IL18RAP	2	102418689	102452565	0.048238121	PASS
IL19	1	206798870	206842981	-0.256698369	PASS
IL1A	2	112773915	112784590	-0.010901494	PASS
IL1B	2	112829751	112836903	-0.010901494	PASS
IL1F10	2	113067970	113075850	-0.010901494	PASS
IL1R1	2	102064544	102179874	0.048238121	PASS
IL1R2	2	101991844	102028544	0.048238121	PASS

IL1RAP	3	190514051	190659750	0.318278996	suppress_segment_too_large
IL1RAPL1	23	28587399	29956723	-0.012567603	PASS
IL1RAPL2	23	104566315	105767829	-0.012567603	PASS
IL1RL1	2	102311502	102352037	0.048238121	PASS
IL1RL2	2	102186973	102240002	0.048238121	PASS
IL1RN	2	113107214	113134016	-0.010901494	PASS
IL2	4	122451470	122456725	-0.011382299	PASS
IL20	1	206865354	206869223	-0.256698369	PASS
IL20RA	6	136999971	137045180	-0.035448111	PASS
IL20RB	3	136946230	137011085	0.313454204	suppress_segment_too_large
IL21	4	122610108	122621069	-0.011382299	PASS
IL21R	16	27402162	27452042	0.069936844	PASS
IL22	12	68248242	68253604	-0.202191512	PASS
IL22RA1	1	24119771	24143121	0.033763446	PASS
IL22RA2	6	137143820	137173648	-0.035448111	PASS
IL23A	12	56334174	56340410	-0.202191512	PASS
IL23R	1	67138907	67259979	0.033763446	PASS
IL24	1	206897443	206904139	-0.256698369	PASS
IL25	14	23372809	23376403	0.060212819	PASS
IL26	12	68201351	68225821	-0.202191512	PASS
IL27	16	28499362	28512051	0.069936844	PASS
IL27RA	19	14031748	14053216	0.093487731	suppress_segment_too_large
IL2RA	10	6010689	6062370	0.039811807	PASS
IL2RB	22	37125838	37175054	-0.575930959	PASS
IL2RG	23	71107404	71112108	-0.012567603	PASS
IL3	5	132060529	132063204	-0.293443042	PASS
IL31	12	122172030	122174199	0.202141228	PASS
IL31RA	5	55851379	55922853	-0.293443042	PASS
IL32	16	3065297	3082192	0.069936844	PASS
IL33	9	6215786	6257983	-0.310444659	PASS
IL34	16	70579895	70660682	-0.371357732	PASS
IL36A	2	113005461	113008044	-0.010901494	PASS
IL36B	2	113022091	113052867	-0.010901494	PASS
IL36G	2	112973203	112985665	-0.010901494	PASS
IL36RN	2	113058638	113065382	-0.010901494	PASS
IL37	2	112912971	112918882	-0.010901494	PASS
IL3RA	23	1336616	1382689	-0.012567603	PASS
IL4	5	132673986	132682676	-0.293443042	PASS
IL4I1	19	49889654	49929539	-0.016761391	PASS
IL4R	16	27313668	27364778	0.069936844	PASS
IL5	5	132541444	132556838	-0.293443042	PASS
IL5RA	3	3066326	3126613	0.311018244	suppress_segment_too_large
IL6	7	22725884	22732002	-0.69513118	PASS
IL6R	1	154405193	154469450	0.103015788	PASS
IL6ST	5	55935095	55994993	-0.293443042	PASS
IL7	8	78675743	78805523	0.279445683	PASS

IL7R	5	35852695	35879603	0.055007813	PASS
IL9	5	135892246	135895827	-0.293443042	PASS
IL9R	23	155997581	156010817	-0.012567603	PASS
ILDR1	3	121987323	122022258	0.313454204	suppress_segment_too_large
ILDR2	1	166895711	166975482	-0.027073548	PASS
ILF2	1	153661788	153671048	0.103015788	PASS
ILF3	19	10654261	10692417	0.093487731	suppress_segment_too_large
ILK	11	6603708	6610874	-0.405444717	PASS
ILKAP	2	238170401	238203729	0.025928102	PASS
ILVBL	19	15114984	15125785	0.093487731	suppress_segment_too_large
IMMP1L	11	31432401	31509645	-0.405444717	PASS
IMMP2L	7	110663051	111562517	-0.388946609	PASS
IMMT	2	86143932	86195770	0.066915641	PASS
IMP3	15	75639085	75648706	-0.697600509	PASS
IMP4	2	130342225	130347810	-0.475215623	PASS
IMPA1	8	81657961	81686693	0.279445683	PASS
IMPA2	18	11981025	12030883	-0.052305056	suppress_segment_too_large
IMPACT	18	24426616	24453535	-0.376397843	PASS
IMPAD1	8	56957933	56993844	-0.201142258	PASS
IMPDH1	7	128392277	128410252	-0.388946609	PASS
IMPDH2	3	49024325	49029408	-0.234617007	PASS
IMPG1	6	75921115	76072678	-0.368590549	PASS
IMPG2	3	101222546	101320560	0.313454204	suppress_segment_too_large
INA	10	103277163	103290351	-0.367947924	PASS
INAFM1	19	47274453	47275707	0.14996833	PASS
INAFM2	15	40323664	40326715	-0.396255771	PASS
INAVA	1	200891048	200915735	-0.256698369	PASS
INCA1	17	4988130	4997610	0.128406487	PASS
INCENP	11	62123973	62153163	0.182439925	suppress_segment_too_large
INF2	14	104689606	104722535	-0.192197564	PASS
ING1	13	110712736	110723339	-0.390786075	PASS
ING2	4	183504994	183511096	-0.462744716	PASS
ING3	7	120950749	120977216	-0.388946609	PASS
ING4	12	6650280	6663148	-0.086128028	PASS
INHA	2	219569162	219575713	0.025928102	PASS
INHBA	7	41667168	41705834	-0.69513118	PASS
INHBB	2	120346143	120351808	-0.475215623	PASS
INHBC	12	57434760	57450828	-0.202191512	PASS
INHBE	12	57452323	57459280	-0.202191512	PASS
INIP	9	112683926	112718236	0.365190713	suppress_segment_too_large
INKA1	3	49803254	49805030	-0.234617007	PASS
INKA2	1	111680630	111739424	0.033763446	PASS
INMT	7	30697985	30757602	-0.69513118	PASS
INMT-MIN	7	30752137	30892081	-0.69513118	PASS
INO80	15	40978880	41116354	-0.396255771	PASS
INO80B	2	74455023	74457960	-0.372959126	PASS

INO80B-W	2	74455088	74460884	-0.372959126	PASS
INO80C	18	35452230	35497991	-0.376397843	PASS
INO80D	2	205993721	206086303	0.025928102	PASS
INO80E	16	29995294	30005793	0.069936844	PASS
INPP1	2	190343470	190371665	0.025928102	PASS
INPP4A	2	98444854	98594390	0.048238121	PASS
INPP4B	4	142023160	142847432	-0.011382299	PASS
INPP5A	10	132537820	132783480	0.063874692	PASS
INPP5B	1	37860697	37947057	0.033763446	PASS
INPP5D	2	233059967	233207903	0.025928102	PASS
INPP5E	9	136428619	136439823	0.365190713	suppress_segment_too_large
INPP5F	10	119726042	119829278	0.063874692	PASS
INPP5J	22	31122731	31134696	-0.575930959	PASS
INPP5K	17	1494571	1516888	0.128406487	PASS
INPPL1	11	72223701	72239105	0.062969153	PASS
INS	11	2159779	2161341	-0.333835828	PASS
INS-IGF2	11	2132538	2161209	-0.333835828	PASS
INSC	11	15112424	15247208	-0.405444717	PASS
INSIG1	7	155297776	155310235	-0.411415677	PASS
INSIG2	2	118088452	118110997	-0.475215623	PASS
INSL3	19	17816512	17821574	0.093487731	suppress_segment_too_large
INSL4	9	5231419	5235304	-0.310444659	PASS
INSL5	1	66797741	66801256	0.033763446	PASS
INSL6	9	5123880	5185668	-0.310444659	PASS
INSM1	20	20368121	20370949	-0.168668583	PASS
INSM2	14	35534042	35537054	0.060212819	PASS
INSR	19	7112255	7294034	0.079632875	PASS
INSRR	1	156840063	156859018	0.103015788	PASS
INSYN1	15	73735431	73752747	-0.697600509	PASS
INSYN2	10	127135426	127196158	0.063874692	PASS
INSYN2B	5	169864264	169980740	-0.150979337	PASS
INTS1	7	1470277	1504367	-0.69513118	PASS
INTS10	8	19817140	19852083	-0.345962679	PASS
INTS11	1	1311585	1324691	0.373964873	suppress_segment_too_large
INTS12	4	105682627	105895986	-0.011382299	PASS
INTS13	12	26905181	26938326	0.362961408	suppress_segment_too_large
INTS14	15	65578753	65611289	-0.697600509	PASS
INTS2	17	61865367	61928016	0.088516311	PASS
INTS3	1	153728067	153774808	0.103015788	PASS
INTS4	11	77878720	77994678	0.062969153	PASS
INTS5	11	62646848	62653302	0.182439925	suppress_segment_too_large
INTS6	13	51354077	51454264	-0.390786075	PASS
INTS6L	23	135520643	135582510	-0.012567603	PASS
INTS7	1	211940399	212035542	-0.256698369	PASS
INTS8	8	94813311	94881746	0.279445683	PASS
INTS9	8	28767661	28890242	-0.345962679	PASS

INTU	4	127623271	127726737	-0.011382299	PASS
INVS	9	100099256	100301000	0.365190713	suppress_segment_too_large
IP6K1	3	49724294	49786542	-0.234617007	PASS
IP6K2	3	48688003	48740353	-0.234617007	PASS
IP6K3	6	33721670	33746905	0.048820648	PASS
IPCEF1	6	154154496	154356792	-0.035448111	PASS
IPMK	10	58191517	58267934	0.072405807	PASS
IPO11	5	62403972	62628582	-0.293443042	PASS
IPO13	1	43946939	43968022	0.033763446	PASS
IPO4	14	24180219	24188964	0.060212819	PASS
IPO5	13	97953658	98024297	-0.390786075	PASS
IPO7	11	9384622	9448126	-0.405444717	PASS
IPO8	12	30628988	30695986	0.362961408	suppress_segment_too_large
IPO9	1	201829141	201884294	-0.256698369	PASS
IPP	1	45694324	45750650	0.033763446	PASS
IPPK	9	92613184	92670265	0.365190713	suppress_segment_too_large
IQANK1	8	143734140	143790644	0.307788765	PASS
IQCA1	2	236324147	236507542	0.025928102	PASS
IQCA1L	7	151190873	151205496	-0.388946609	PASS
IQCB1	3	121769763	121835079	0.313454204	suppress_segment_too_large
IQCC	1	32205661	32208687	0.033763446	PASS
IQCD	12	113195441	113221094	0.202141228	PASS
IQCE	7	2558972	2614734	-0.69513118	PASS
IQCF1	3	51894876	51903335	-0.234617007	PASS
IQCF2	3	51861629	51863424	-0.234617007	PASS
IQCF3	3	51826883	51830856	-0.234617007	PASS
IQCF5	3	51873721	51875584	-0.234617007	PASS
IQCF6	3	51778561	51779241	-0.234617007	PASS
IQCG	3	197889075	197960142	0.326834516	PASS
IQCH	15	67254800	67502260	-0.697600509	PASS
IQCJ	3	158962928	159266307	0.318278996	suppress_segment_too_large
IQCJ-SCHl	3	158962235	159897366	0.318278996	suppress_segment_too_large
IQCK	16	19716456	19858467	0.069936844	PASS
IQCM	4	149351903	149896233	-0.011382299	PASS
IQCN	19	18257097	18274509	0.093487731	suppress_segment_too_large
IQGAP1	15	90388218	90502243	-0.697600509	PASS
IQGAP2	5	76403249	76708132	-0.293443042	PASS
IQGAP3	1	156525405	156572604	0.103015788	PASS
IQSEC1	3	12897220	13283281	0.311018244	suppress_segment_too_large
IQSEC2	23	53225828	53321350	-0.012567603	PASS
IQSEC3	12	66765	178460	-0.086128028	PASS
IQUB	7	123452400	123535077	-0.388946609	PASS
IRAK1	23	154010500	154019980	-0.012567603	PASS
IRAK1BP1	6	78867472	78946440	-0.368590549	PASS
IRAK2	3	10164865	10243743	0.311018244	suppress_segment_too_large
IRAK3	12	66188879	66254622	-0.202191512	PASS

IRAK4	12	43758944	43789543	-0.202191512	PASS
IREB2	15	78437431	78501456	-0.697600509	PASS
IRF1	5	132481609	132490798	-0.293443042	PASS
IRF2	4	184387713	184474580	-0.462744716	PASS
IRF2BP1	19	45883607	45886170	0.14996833	PASS
IRF2BP2	1	234604269	234609525	-0.256698369	PASS
IRF2BPL	14	77024543	77028699	-0.192197564	PASS
IRF3	19	49659569	49665875	0.14996833	PASS
IRF4	6	391739	411447	0.048820648	PASS
IRF5	7	128937612	128950035	-0.388946609	PASS
IRF6	1	209785623	209806175	-0.256698369	PASS
IRF7	11	612553	615999	-0.333835828	PASS
IRF8	16	85898803	85922609	-0.371357732	PASS
IRF9	14	24161053	24166565	0.060212819	PASS
IRGC	19	43716010	43720021	0.14996833	PASS
IRGM	5	150846523	150900736	-0.293443042	PASS
IRGQ	19	43584369	43596135	0.14996833	PASS
IRS1	2	226731317	226799759	0.025928102	PASS
IRS2	13	109752698	109786568	-0.390786075	PASS
IRS4	23	108732482	108736409	-0.012567603	PASS
IRX1	5	3596054	3601403	0.055007813	PASS
IRX2	5	2745845	2751662	0.055007813	PASS
IRX3	16	54283304	54286763	-0.371357732	PASS
IRX4	5	1877413	1887236	0.055007813	PASS
IRX5	16	54930862	54934485	-0.371357732	PASS
IRX6	16	55323760	55330760	-0.371357732	PASS
ISCA1	9	86264546	86283102	0.365190713	suppress_segment_too_large
ISCA2	14	74493720	74497106	-0.192197564	PASS
ISCU	12	108562582	108569384	0.202141228	PASS
ISG15	1	1001138	1014540	0.373964873	suppress_segment_too_large
ISG20	15	88636153	88656483	-0.697600509	PASS
ISG20L2	1	156721891	156728799	0.103015788	PASS
ISL1	5	51383391	51394738	-0.293443042	PASS
ISL2	15	76336724	76342476	-0.697600509	PASS
ISLR	15	74173671	74176872	-0.697600509	PASS
ISLR2	15	74100311	74138540	-0.697600509	PASS
ISM1	20	13221771	13300651	-0.168668583	PASS
ISM2	14	77474394	77498850	-0.192197564	PASS
ISOC1	5	129094751	129114028	-0.293443042	PASS
ISOC2	19	55452985	55462343	0.121336758	PASS
ISPD	7	16087527	16421322	-0.69513118	PASS
IST1	16	71845996	71931199	-0.371357732	PASS
ISX	22	35066136	35087387	-0.575930959	PASS
ISY1	3	129127415	129161293	0.313454204	suppress_segment_too_large
ISY1-RAB	3	129087575	129161036	0.313454204	suppress_segment_too_large
ISYNA1	19	18434388	18438301	0.093487731	suppress_segment_too_large

ITCH	20	34363235	34511393	-0.168668583	PASS
ITFG1	16	47154387	47464149	0.069936844	PASS
ITFG2	12	2812622	2859791	-0.086128028	PASS
ITGA1	5	52787896	52959210	-0.293443042	PASS
ITGA10	1	145891208	145910189	-0.157385092	PASS
ITGA11	15	68296533	68432162	-0.697600509	PASS
ITGA2	5	52989326	53094779	-0.293443042	PASS
ITGA2B	17	44372180	44389505	0.088516311	PASS
ITGA3	17	50055968	50090481	0.088516311	PASS
ITGA4	2	181457202	181536187	0.039726562	PASS
ITGA5	12	54395261	54419460	-0.202191512	PASS
ITGA6	2	172427354	172506282	0.039726562	PASS
ITGA7	12	55684568	55716043	-0.202191512	PASS
ITGA8	10	15513949	15720125	0.039811807	PASS
ITGA9	3	37452115	37823514	-0.234617007	PASS
ITGAD	16	31393312	31426505	0.069936844	PASS
ITGAE	17	3714628	3801243	0.128406487	PASS
ITGAL	16	30472658	30523185	0.069936844	PASS
ITGAM	16	31259967	31332892	0.069936844	PASS
ITGAV	2	186590065	186680901	-0.169541924	PASS
ITGAX	16	31355134	31382997	0.069936844	PASS
ITGB1	10	32900319	33005792	0.039811807	PASS
ITGB1BP1	2	9403475	9423547	0.040498426	PASS
ITGB1BP2	23	71301734	71305371	-0.012567603	PASS
ITGB2	21	44885953	44931989	-0.064425456	suppress_segment_too_large
ITGB3	17	47253846	47311816	0.088516311	PASS
ITGB3BP	1	63440770	63593721	0.033763446	PASS
ITGB4	17	75721328	75757818	0.088516311	PASS
ITGB5	3	124761948	124901418	0.313454204	suppress_segment_too_large
ITGB6	2	160099666	160200313	0.039726562	PASS
ITGB7	12	53191318	53207307	-0.202191512	PASS
ITGB8	7	20330702	20415754	-0.69513118	PASS
ITGBL1	13	101452593	101720856	-0.390786075	PASS
ITIH1	3	52777592	52792068	-0.234617007	PASS
ITIH2	10	7703269	7749520	0.039811807	PASS
ITIH3	3	52794768	52809009	-0.234617007	PASS
ITIH4	3	52812975	52831479	-0.234617007	PASS
ITIH5	10	7559270	7666998	0.039811807	PASS
ITIH6	23	54748899	54798240	-0.012567603	PASS
ITK	5	157142933	157255191	-0.293443042	PASS
ITLN1	1	160876539	160885170	-0.027073548	PASS
ITLN2	1	160945025	160954799	-0.027073548	PASS
ITM2A	23	79360384	79367667	-0.012567603	PASS
ITM2B	13	48232612	48270357	-0.390786075	PASS
ITM2C	2	230864639	230879248	0.025928102	PASS
ITPA	20	3208868	3223870	-0.168668583	PASS

ITPK1	14	92936914	93116320	-0.192197564	PASS
ITPKA	15	41493393	41503551	-0.396255771	PASS
ITPKB	1	226631690	226739323	-0.256698369	PASS
ITPKC	19	40717103	40740860	0.093487731	suppress_segment_too_large
ITPR1	3	4493345	4847840	0.311018244	suppress_segment_too_large
ITPR2	12	26336515	26833198	0.362961408	suppress_segment_too_large
ITPR3	6	33620365	33696574	0.048820648	PASS
ITPRID1	7	31514071	31658720	-0.69513118	PASS
ITPRID2	2	181891833	181930738	0.039726562	PASS
ITPRIP	10	104309698	104338448	-0.367947924	PASS
ITPRIPL1	2	96325331	96330517	0.048238121	PASS
ITPRIPL2	16	19113932	19121629	0.069936844	PASS
ITSN1	21	33642400	33899861	0.12860881	suppress_segment_too_large
ITSN2	2	24202864	24360714	0.040498426	PASS
IVD	15	40405795	40435947	-0.396255771	PASS
IVL	1	152908545	152911886	0.103015788	PASS
IVNS1ABI	1	185296388	185317329	-0.027073548	PASS
IWS1	2	127436207	127526886	-0.475215623	PASS
IYD	6	150368892	150405969	-0.035448111	PASS
IZUMO1	19	48740852	48746909	0.14996833	PASS
IZUMO1R	11	94305592	94307721	0.062969153	PASS
IZUMO2	19	50152548	50163195	-0.016761391	PASS
IZUMO3	9	24542952	24545946	-0.310444659	PASS
IZUMO4	19	2096429	2099593	0.079632875	PASS
JADE1	4	128809623	128875224	-0.011382299	PASS
JADE2	5	134524312	134583230	-0.293443042	PASS
JADE3	23	46912276	47061242	-0.012567603	PASS
JAG1	20	10637684	10673999	-0.168668583	PASS
JAG2	14	105140981	105168824	-0.192197564	PASS
JAGN1	3	9890572	9894349	0.311018244	suppress_segment_too_large
JAK1	1	64833229	64966504	0.033763446	PASS
JAK2	9	4984390	5128183	-0.310444659	PASS
JAK3	19	17824780	17848071	0.093487731	suppress_segment_too_large
JAKMIP1	4	6026203	6200591	0.279089364	PASS
JAKMIP2	5	147585439	147782848	-0.293443042	PASS
JAKMIP3	10	132104671	132184809	0.063874692	PASS
JAM2	21	25639272	25717562	0.12860881	suppress_segment_too_large
JAM3	11	134068925	134152001	-0.419612865	PASS
JAML	11	118193740	118225094	-0.356188624	PASS
JARID2	6	15246296	15522040	0.048820648	PASS
JAZF1	7	27830573	28180743	-0.69513118	PASS
JCAD	10	30012800	30115494	0.039811807	PASS
JCHAIN	4	70655541	70681817	-0.011382299	PASS
JDP2	14	75427716	75474111	-0.192197564	PASS
JHY	11	122882528	122959798	-0.356188624	PASS
JKAMP	14	59484443	59505410	0.060212819	PASS

JMJD1C	10	63167221	63521850	0.072405807	PASS
JMJD4	1	227730425	227735411	-0.256698369	PASS
JMJD6	17	76712832	76726799	0.088516311	PASS
JMJD7	15	41828085	41837581	-0.396255771	PASS
JMJD7-PLA	15	41828095	41848155	-0.396255771	PASS
JMJD8	16	681671	684528	0.069936844	PASS
JMY	5	79236189	79327215	-0.293443042	PASS
JOSD1	22	38685543	38701556	-0.575930959	PASS
JOSD2	19	50505998	50511353	-0.016761391	PASS
JPH1	8	74234700	74321328	-0.201142258	PASS
JPH2	20	44111695	44187578	-0.168668583	PASS
JPH3	16	87601835	87698156	-0.371357732	PASS
JPH4	14	23568035	23578800	0.060212819	PASS
JPT1	17	75135248	75168281	0.088516311	PASS
JPT2	16	1678256	1702280	0.069936844	PASS
JRK	8	142657460	142681968	0.113969953	PASS
JRKL	11	96389989	96507574	0.062969153	PASS
JSRP1	19	2252252	2269759	0.079632875	PASS
JTB	1	153974269	153977688	0.103015788	PASS
JUN	1	58780788	58784327	0.033763446	PASS
JUNB	19	12791496	12793315	0.093487731	suppress_segment_too_large
JUND	19	18279760	18281622	0.093487731	suppress_segment_too_large
JUP	17	41754604	41786931	0.060555011	PASS
KAAG1	6	24356903	24358284	0.048820648	PASS
KALRN	3	124080023	124726325	0.313454204	suppress_segment_too_large
KANK1	9	470291	746106	-0.310444659	PASS
KANK2	19	11164267	11197791	0.093487731	suppress_segment_too_large
KANK3	19	8322584	8343262	0.079632875	PASS
KANK4	1	62236979	62319414	0.033763446	PASS
KANSL1	17	46029916	46225389	0.088516311	PASS
KANSL1L	2	210021423	210171383	0.025928102	PASS
KANSL2	12	48653401	48682238	-0.202191512	PASS
KANSL3	2	96593170	96642787	0.048238121	PASS
KANTR	23	53094145	53170914	-0.012567603	PASS
KARS	16	75627474	75648643	-0.371357732	PASS
KAT14	20	18138118	18188387	-0.168668583	PASS
KAT2A	17	42113108	42121358	0.060555011	PASS
KAT2B	3	20040023	20154404	0.311018244	suppress_segment_too_large
KAT5	11	65711996	65719604	0.182439925	suppress_segment_too_large
KAT6A	8	41929479	42052026	-0.201142258	PASS
KAT6B	10	74824927	75032624	0.072405807	PASS
KAT7	17	49788555	49835030	0.088516311	PASS
KAT8	16	31115754	31131393	0.069936844	PASS
KATNA1	6	149594873	149648972	-0.035448111	PASS
KATNAL1	13	30202630	30307484	-0.390786075	PASS
KATNAL2	18	46917492	47102243	-0.376397843	PASS

KATNB1	16	57735730	57757250	-0.371357732	PASS
KATNBL1	15	34140674	34210096	-0.396255771	PASS
KAZALD1	10	101061841	101068131	-0.367947924	PASS
KAZN	1	13892792	15118043	0.033763446	PASS
KBTBD11	8	1973878	2006936	-0.313874214	PASS
KBTBD11·	8	1763888	1958627	-0.313874214	PASS
KBTBD12	3	127915232	127987671	0.313454204	suppress_segment_too_large
KBTBD13	15	65076816	65079939	-0.697600509	PASS
KBTBD2	7	32868172	32894131	-0.69513118	PASS
KBTBD3	11	106051098	106077765	-0.356188624	PASS
KBTBD4	11	47572197	47579015	0.117376172	PASS
KBTBD6	13	41127569	41132746	-0.390786075	PASS
KBTBD7	13	41189833	41194566	-0.390786075	PASS
KBTBD8	3	66998307	67011210	-0.234617007	PASS
KCMF1	2	84971093	85059472	0.066915641	PASS
KCNA1	12	4909905	4918256	-0.086128028	PASS
KCNA10	1	110517217	110519175	0.033763446	PASS
KCNA2	1	110519837	110631474	0.033763446	PASS
KCNA3	1	110672465	110675033	0.033763446	PASS
KCNA4	11	30009741	30017023	-0.405444717	PASS
KCNA5	12	5043989	5046788	-0.086128028	PASS
KCNA6	12	4809176	4813412	-0.086128028	PASS
KCNA7	19	49067418	49072941	0.14996833	PASS
KCNAB1	3	156037701	156539138	0.318278996	suppress_segment_too_large
KCNAB2	1	5991466	6101193	0.373964873	suppress_segment_too_large
KCNAB3	17	7921859	7929803	0.128406487	PASS
KCNB1	20	49293394	49484297	-0.168668583	PASS
KCNB2	8	72537391	72938349	-0.201142258	PASS
KCNC1	11	17734774	17856804	-0.405444717	PASS
KCNC2	12	75040077	75209868	0.202141228	PASS
KCNC3	19	50311937	50333515	-0.016761391	PASS
KCNC4	1	110211343	110283100	0.033763446	PASS
KCND1	23	48961378	48971569	-0.012567603	PASS
KCND2	7	120273668	120750331	-0.388946609	PASS
KCND3	1	111770662	111989155	0.033763446	PASS
KCNE1	21	34446688	34512275	0.12860881	suppress_segment_too_large
KCNE1B	21	7816675	7829926	-0.304975024	PASS
KCNE2	21	34364024	34371389	0.12860881	suppress_segment_too_large
KCNE3	11	74454841	74467729	0.062969153	PASS
KCNE4	2	223051814	223198399	0.025928102	PASS
KCNE5	23	109623700	109625172	-0.012567603	PASS
KCNF1	2	10911937	10914225	0.040498426	PASS
KCNG1	20	51003656	51023129	-0.168668583	PASS
KCNG2	18	79863668	79900184	-0.376397843	PASS
KCNG3	2	42442017	42494097	0.040498426	PASS
KCNG4	16	84218667	84239750	-0.371357732	PASS

KCNH1	1	210676823	211134180	-0.256698369	PASS
KCNH2	7	150944961	150978315	-0.388946609	PASS
KCNH3	12	49539157	49558308	-0.202191512	PASS
KCNH4	17	42156891	42181278	0.060555011	PASS
KCNH5	14	62699454	63102037	0.060212819	PASS
KCNH6	17	63523334	63548977	0.088516311	PASS
KCNH7	2	162371407	162838730	0.039726562	PASS
KCNH8	3	19148454	19535646	0.311018244	suppress_segment_too_large
KCNIP1	5	170353487	170736632	-0.150979337	PASS
KCNIP2	10	101825974	101843920	-0.367947924	PASS
KCNIP3	2	95297304	95386083	0.048238121	PASS
KCNIP4	4	20728616	21948799	0.279089364	PASS
KCNJ1	11	128836315	128867373	-0.419612865	PASS
KCNJ10	1	159998651	160070483	-0.027073548	PASS
KCNJ11	11	17385859	17389331	-0.405444717	PASS
KCNJ12	17	21376197	21419872	0.060555011	PASS
KCNJ13	2	232766464	232776568	0.025928102	PASS
KCNJ14	19	48455509	48466980	0.14996833	PASS
KCNJ15	21	38155549	38307357	-0.064425456	suppress_segment_too_large
KCNJ16	17	70053429	70135608	0.088516311	PASS
KCNJ18	17	21692523	21704612	0.060555011	PASS
KCNJ2	17	70168673	70180048	0.088516311	PASS
KCNJ3	2	154698299	154858352	-0.475215623	PASS
KCNJ4	22	38426327	38455199	-0.575930959	PASS
KCNJ5	11	128891356	128921035	-0.419612865	PASS
KCNJ6	21	37607376	38121345	-0.064425456	suppress_segment_too_large
KCNJ8	12	21764955	21775581	0.362961408	suppress_segment_too_large
KCNJ9	1	160081570	160090563	-0.027073548	PASS
KCNK1	1	233614004	233672512	-0.256698369	PASS
KCNK10	14	88180103	88326907	-0.192197564	PASS
KCNK12	2	47516581	47570939	0.040498426	PASS
KCNK13	14	90061765	90185857	-0.192197564	PASS
KCNK15	20	44745780	44752313	-0.168668583	PASS
KCNK16	6	39314698	39322968	0.048820648	PASS
KCNK17	6	39299001	39314553	0.048820648	PASS
KCNK18	10	117197489	117210299	0.063874692	PASS
KCNK2	1	215005775	215237093	-0.256698369	PASS
KCNK3	2	26692690	26733420	0.040498426	PASS
KCNK4	11	64291302	64300031	0.182439925	suppress_segment_too_large
KCNK5	6	39188973	39229450	0.048820648	PASS
KCNK6	19	38319844	38332076	0.093487731	suppress_segment_too_large
KCNK7	11	65592855	65595996	0.182439925	suppress_segment_too_large
KCNK9	8	139600838	139704109	0.113969953	PASS
KCNMA1	10	76869601	77638369	0.072405807	PASS
KCNMB1	5	170374671	170389677	-0.150979337	PASS
KCNMB2	3	178272932	178844429	0.318278996	suppress_segment_too_large

KCNMB3	3	179236691	179267002	0.318278996	suppress_segment_too_large
KCNMB4	12	70366276	70434292	-0.202191512	PASS
KCNN1	19	17951293	18000080	0.093487731	suppress_segment_too_large
KCNN2	5	114055545	114496500	-0.293443042	PASS
KCNN3	1	154697455	154870280	0.103015788	PASS
KCNN4	19	43766533	43781261	0.14996833	PASS
KCNQ1	11	2444684	2849110	-0.333835828	PASS
KCNQ2	20	63400210	63472677	-0.168668583	PASS
KCNQ3	8	132120858	132481019	0.113969953	PASS
KCNQ4	1	40783814	40840452	0.033763446	PASS
KCNQ5	6	72621792	73198851	-0.368590549	PASS
KCNRG	13	50015254	50020922	-0.390786075	PASS
KCNS1	20	45092310	45101112	-0.168668583	PASS
KCNS2	8	98427022	98432848	0.279445683	PASS
KCNS3	2	17877847	18361616	0.040498426	PASS
KCNT1	9	135702185	135795508	0.365190713	suppress_segment_too_large
KCNT2	1	196225779	196609225	-0.027073548	PASS
KCNU1	8	36784324	36936128	-0.345962679	PASS
KCNV1	8	109963645	109975847	0.279445683	PASS
KCNV2	9	2717502	2730037	-0.310444659	PASS
KCP	7	128862451	128910719	-0.388946609	PASS
KCTD1	18	26454910	26657401	-0.376397843	PASS
KCTD10	12	109448656	109477544	0.202141228	PASS
KCTD11	17	7351889	7354944	0.128406487	PASS
KCTD12	13	76880166	76886390	-0.390786075	PASS
KCTD13	16	29905012	29927035	0.069936844	PASS
KCTD14	11	78015715	78046191	0.062969153	PASS
KCTD15	19	33795933	33815763	0.093487731	suppress_segment_too_large
KCTD16	5	144170832	144485686	-0.293443042	PASS
KCTD17	22	37051736	37063390	-0.575930959	PASS
KCTD18	2	200488952	200519784	0.025928102	PASS
KCTD19	16	67289428	67326763	-0.371357732	PASS
KCTD2	17	75032575	75065889	0.088516311	PASS
KCTD20	6	36442767	36491143	0.048820648	PASS
KCTD21	11	78171249	78188822	0.062969153	PASS
KCTD3	1	215567392	215621807	-0.256698369	PASS
KCTD4	13	45192853	45194717	-0.390786075	PASS
KCTD5	16	2682475	2709030	0.069936844	PASS
KCTD6	3	58492114	58502360	-0.234617007	PASS
KCTD7	7	66628767	66649067	-0.750061359	PASS
KCTD8	4	44173909	44448807	-0.011382299	PASS
KCTD9	8	25427847	25458476	-0.345962679	PASS
KDELC1	13	102784281	102799007	-0.390786075	PASS
KDELC2	11	108472105	108498432	-0.356188624	PASS
KDELR1	19	48382570	48391553	0.14996833	PASS
KDELR2	7	6445953	6484242	-0.69513118	PASS

KDELR3	22	38468062	38483447	-0.575930959	PASS
KDF1	1	26949562	26960406	0.033763446	PASS
KDM1A	1	23019443	23083689	0.033763446	PASS
KDM1B	6	18155329	18223853	0.048820648	PASS
KDM2A	11	67119269	67258087	0.182439925	suppress_segment_too_large
KDM2B	12	121429097	121581015	0.202141228	PASS
KDM3A	2	86440647	86492716	0.066915641	PASS
KDM3B	5	138352596	138437028	-0.293443042	PASS
KDM4A	1	43650158	43705515	0.033763446	PASS
KDM4B	19	4969113	5153595	0.079632875	PASS
KDM4C	9	6720863	7175648	-0.310444659	PASS
KDM4D	11	94973681	94999518	0.062969153	PASS
KDM4E	11	95025258	95027596	0.062969153	PASS
KDM4F	11	95049422	95051338	0.062969153	PASS
KDM5A	12	280129	389454	-0.086128028	PASS
KDM5B	1	202724495	202809470	-0.256698369	PASS
KDM5C	23	53191321	53225422	-0.012567603	PASS
KDM6A	23	44873177	45112602	-0.012567603	PASS
KDM6B	17	7839904	7854796	0.128406487	PASS
KDM7A	7	140084746	140177035	-0.388946609	PASS
KDM8	16	27203495	27221768	0.069936844	PASS
KDR	4	55078259	55125595	-0.011382299	PASS
KDSR	18	63327726	63367510	-0.376397843	PASS
KEAP1	19	10486120	10503741	0.093487731	suppress_segment_too_large
KEL	7	142941114	142962681	-0.388946609	PASS
KERA	12	91050491	91057983	0.202141228	PASS
KHDC1	6	73241314	73310365	-0.368590549	PASS
KHDC1L	6	73223544	73225770	-0.368590549	PASS
KHDC3L	6	73362677	73364171	-0.368590549	PASS
KHDC4	1	155913043	155934400	0.103015788	PASS
KHDRBS1	1	32013829	32060850	0.033763446	PASS
KHDRBS2	6	61679960	62286227	0.048820648	PASS
KHDRBS3	8	135457457	135656722	0.113969953	PASS
KHK	2	27086747	27100772	0.040498426	PASS
KHNYN	14	24429286	24441834	0.060212819	PASS
KHSRP	19	6413348	6424794	0.079632875	PASS
KIAA0040	1	175156987	175192999	-0.027073548	PASS
KIAA0100	17	28614440	28645454	0.060555011	PASS
KIAA0232	4	6781375	6884170	0.279089364	PASS
KIAA0319	6	24544104	24646155	0.048820648	PASS
KIAA0319	1	35433490	35557950	0.033763446	PASS
KIAA0355	19	34254537	34355586	0.093487731	suppress_segment_too_large
KIAA0391	14	35121846	35277614	0.060212819	PASS
KIAA0408	6	127440343	127459391	-0.458570262	PASS
KIAA0513	16	85027751	85094230	-0.371357732	PASS
KIAA0556	16	27550133	27780369	0.069936844	PASS

KIAA0586	14	58427385	58551289	0.060212819	PASS
KIAA0753	17	6578148	6640927	0.128406487	PASS
KIAA0825	5	94152966	94618597	-0.293443042	PASS
KIAA0895	7	36324221	36390125	-0.69513118	PASS
KIAA0895	16	67175602	67184040	-0.371357732	PASS
KIAA0930	22	45190338	45240769	-0.808211634	PASS
KIAA1024	15	79432516	79472290	-0.697600509	PASS
KIAA1024	5	129748079	129766732	-0.293443042	PASS
KIAA1109	4	122152333	122362758	-0.011382299	PASS
KIAA1143	3	44737661	44761662	-0.234617007	PASS
KIAA1147	7	141656728	141702153	-0.388946609	PASS
KIAA1191	5	176346061	176361968	-0.150979337	PASS
KIAA1210	23	119078635	119150579	-0.012567603	PASS
KIAA1211	4	56049073	56328625	-0.011382299	PASS
KIAA1211	2	98793846	98936259	0.048238121	PASS
KIAA1217	10	23694746	24547848	0.039811807	PASS
KIAA1257	3	128909866	129002690	0.313454204	suppress_segment_too_large
KIAA1324	1	109113679	109206781	0.033763446	PASS
KIAA1324	7	86876906	87059699	-0.262778904	PASS
KIAA1328	18	36829106	37232172	-0.376397843	PASS
KIAA1522	1	32741885	32774970	0.033763446	PASS
KIAA1549	7	138831381	138981318	-0.388946609	PASS
KIAA1549	11	33376466	33674102	-0.405444717	PASS
KIAA1551	12	31959370	31993107	0.362961408	suppress_segment_too_large
KIAA1586	6	57046532	57055239	0.048820648	PASS
KIAA1614	1	180913154	180951614	-0.027073548	PASS
KIAA1671	22	24952730	25197448	-0.575930959	PASS
KIAA1755	20	38210488	38260772	-0.168668583	PASS
KIAA1841	2	61065871	61138034	-0.372959126	PASS
KIAA1958	9	112486847	112669397	0.365190713	suppress_segment_too_large
KIAA2012	2	202073289	202205203	0.025928102	PASS
KIAA2013	1	11919591	11926428	0.373964873	suppress_segment_too_large
KIAA2026	9	5881596	6007901	-0.310444659	PASS
KIDINS220	2	8721081	8837630	0.040498426	PASS
KIF11	10	92593286	92655395	-0.39678585	PASS
KIF12	9	114086126	114099291	0.365190713	suppress_segment_too_large
KIF13A	6	17759183	17987623	0.048820648	PASS
KIF13B	8	29067279	29263124	-0.345962679	PASS
KIF14	1	200551497	200620734	-0.027073548	PASS
KIF15	3	44761717	44873376	-0.234617007	PASS
KIF16B	20	16272104	16573434	-0.168668583	PASS
KIF17	1	20664014	20718017	0.033763446	PASS
KIF18A	11	28020620	28108308	-0.405444717	PASS
KIF18B	17	44924709	44947711	0.088516311	PASS
KIF19	17	74326210	74355820	0.088516311	PASS
KIF1A	2	240713761	240821036	0.025928102	PASS

KIF1B	1	10210805	10381603	0.373964873	suppress_segment_too_large
KIF1BP	10	68988721	69043544	0.072405807	PASS
KIF1C	17	4997948	5028401	0.128406487	PASS
KIF20A	5	138178719	138187715	-0.293443042	PASS
KIF20B	10	89701610	89774939	-0.39678585	PASS
KIF21A	12	39293228	39443390	-0.202191512	PASS
KIF21B	1	200969390	201023700	-0.256698369	PASS
KIF22	16	29790719	29805385	0.069936844	PASS
KIF23	15	69414246	69448427	-0.697600509	PASS
KIF24	9	34252381	34311371	-0.310444659	PASS
KIF25	6	167996241	168045089	-0.035448111	PASS
KIF26A	14	104138723	104180894	-0.192197564	PASS
KIF26B	1	245154985	245709431	-0.368111568	PASS
KIF27	9	83836698	83921465	0.365190713	suppress_segment_too_large
KIF2A	5	62306162	62537249	-0.293443042	PASS
KIF2B	17	53822901	53825213	0.088516311	PASS
KIF2C	1	44739818	44767767	0.033763446	PASS
KIF3A	5	132692628	132737638	-0.293443042	PASS
KIF3B	20	32277664	32335011	-0.168668583	PASS
KIF3C	2	25926596	25982749	0.040498426	PASS
KIF4A	23	70290090	70420832	-0.012567603	PASS
KIF4B	5	155013755	155018132	-0.293443042	PASS
KIF5A	12	57549998	57586632	-0.202191512	PASS
KIF5B	10	32009010	32056431	0.039811807	PASS
KIF5C	2	148875250	149026759	-0.475215623	PASS
KIF6	6	39329990	39725405	0.048820648	PASS
KIF7	15	89608789	89655451	-0.697600509	PASS
KIF9	3	47228026	47283451	-0.234617007	PASS
KIFAP3	1	169921326	170085208	-0.027073548	PASS
KIFC1	6	33391536	33409924	0.048820648	PASS
KIFC2	8	144466043	144474202	0.307788765	PASS
KIFC3	16	57758217	57863053	-0.371357732	PASS
KIN	10	7750962	7787981	0.039811807	PASS
KIR2DL1	19	54769811	54784322	-0.146906334	PASS
KIR2DL3	19	54738515	54753052	-0.146906334	PASS
KIR2DL4	19	54803535	54814517	-0.146906334	PASS
KIR3DL1	19	54816468	54830778	-0.146906334	PASS
KIR3DL2	19	54850443	54867207	-0.146906334	PASS
KIR3DL3	19	54724479	54736536	-0.146906334	PASS
KIRREL1	1	157993273	158100262	-0.467855874	PASS
KIRREL2	19	35855861	35867109	0.093487731	suppress_segment_too_large
KIRREL3	11	126423359	127003460	-0.419612865	PASS
KISS1	1	204190341	204196486	-0.256698369	PASS
KISS1R	19	917287	921015	0.079632875	PASS
KIT	4	54657918	54740715	-0.011382299	PASS
KITLG	12	88492793	88580851	0.202141228	PASS

KIZ	20	21125983	21246622	-0.168668583	PASS
KL	13	33016433	33066145	-0.390786075	PASS
KLB	4	39406853	39451536	-0.011382299	PASS
KLC1	14	103561896	103714249	-0.192197564	PASS
KLC2	11	66257294	66267860	0.182439925	suppress_segment_too_large
KLC3	19	45333434	45351520	0.14996833	PASS
KLC4	6	43040777	43075099	0.048820648	PASS
KLF1	19	12884422	12887199	0.093487731	suppress_segment_too_large
KLF10	8	102648779	102655902	0.279445683	PASS
KLF11	2	10042849	10054836	0.040498426	PASS
KLF12	13	73686089	73995056	-0.390786075	PASS
KLF13	15	31326855	31435665	-0.396255771	PASS
KLF14	7	130731235	130734176	-0.388946609	PASS
KLF15	3	126342635	126357442	0.313454204	suppress_segment_too_large
KLF16	19	1852399	1863568	0.079632875	PASS
KLF17	1	44118850	44135140	0.033763446	PASS
KLF18	1	44137821	44141631	0.033763446	PASS
KLF2	19	16324817	16327874	0.093487731	suppress_segment_too_large
KLF3	4	38664196	38701042	-0.011382299	PASS
KLF4	9	107484852	107490482	0.365190713	suppress_segment_too_large
KLF5	13	73054976	73077542	-0.390786075	PASS
KLF6	10	3775996	3785281	0.039811807	PASS
KLF7	2	207074137	207167267	0.025928102	PASS
KLF8	23	56232421	56287889	-0.012567603	PASS
KLF9	9	70384597	70414624	0.365190713	suppress_segment_too_large
KLHDC1	14	49693105	49753152	0.060212819	PASS
KLHDC10	7	130070510	130135720	-0.388946609	PASS
KLHDC2	14	49767608	49786385	0.060212819	PASS
KLHDC3	6	43014103	43021298	0.048820648	PASS
KLHDC4	16	87696485	87765992	-0.371357732	PASS
KLHDC7A	1	18480982	18486126	0.033763446	PASS
KLHDC7B	22	50545891	50551023	-0.808211634	PASS
KLHDC8A	1	205336065	205357090	-0.256698369	PASS
KLHDC8B	3	49171611	49176486	-0.234617007	PASS
KLHDC9	1	161098361	161100346	-0.027073548	PASS
KLHL1	13	69700594	70108493	-0.390786075	PASS
KLHL10	17	41835685	41848384	0.060555011	PASS
KLHL11	17	41853545	41865431	0.060555011	PASS
KLHL12	1	202891100	202928636	-0.256698369	PASS
KLHL13	23	117897813	118117340	-0.012567603	PASS
KLHL14	18	32672671	32773062	-0.376397843	PASS
KLHL15	23	23983720	24027186	-0.012567603	PASS
KLHL17	1	960587	965715	0.373964873	suppress_segment_too_large
KLHL18	3	47282917	47346816	-0.234617007	PASS
KLHL2	4	165207618	165323156	-0.011382299	PASS
KLHL20	1	173714941	173786702	-0.027073548	PASS

KLHL21	1	6590724	6614607	0.373964873	suppress_segment_too_large
KLHL22	22	20441519	20495883	-0.575930959	PASS
KLHL23	2	169694488	169776989	0.039726562	PASS
KLHL24	3	183635568	183684477	0.318278996	suppress_segment_too_large
KLHL25	15	85759323	85795030	-0.697600509	PASS
KLHL26	19	18636965	18671714	0.093487731	suppress_segment_too_large
KLHL28	14	44924319	45042322	0.060212819	PASS
KLHL29	2	23385217	23708611	0.040498426	PASS
KLHL3	5	137617500	137736090	-0.293443042	PASS
KLHL30	2	238138722	238152947	0.025928102	PASS
KLHL31	6	53647901	53665708	0.048820648	PASS
KLHL32	6	96924620	97140754	-0.368590549	PASS
KLHL33	14	20425852	20436158	0.060212819	PASS
KLHL34	23	21654690	21658330	-0.012567603	PASS
KLHL35	11	75422394	75430629	0.062969153	PASS
KLHL36	16	84648525	84667686	-0.371357732	PASS
KLHL38	8	123645527	123652950	0.279445683	PASS
KLHL4	23	87517749	87670050	-0.012567603	PASS
KLHL40	3	42685519	42692544	-0.234617007	PASS
KLHL41	2	169509702	169526262	0.039726562	PASS
KLHL42	12	27780020	27803040	0.362961408	suppress_segment_too_large
KLHL5	4	39045039	39126857	-0.011382299	PASS
KLHL6	3	183487531	183555689	0.318278996	suppress_segment_too_large
KLHL7	7	23105758	23177914	-0.69513118	PASS
KLHL8	4	87160103	87240314	-0.011382299	PASS
KLHL9	9	21329671	21335380	-0.310444659	PASS
KLK1	19	50819148	50823787	-0.016761391	PASS
KLK10	19	51012739	51020175	-0.016761391	PASS
KLK11	19	51022216	51028039	-0.016761391	PASS
KLK12	19	51029092	51035230	-0.016761391	PASS
KLK13	19	51056206	51065114	-0.016761391	PASS
KLK14	19	51077495	51084245	-0.016761391	PASS
KLK15	19	50825289	50837213	-0.016761391	PASS
KLK2	19	50861568	50880567	-0.016761391	PASS
KLK3	19	50854915	50860764	-0.016761391	PASS
KLK4	19	50906352	50910738	-0.016761391	PASS
KLK5	19	50943303	50953093	-0.016761391	PASS
KLK6	19	50958631	50969673	-0.016761391	PASS
KLK7	19	50976482	50984099	-0.016761391	PASS
KLK8	19	50996007	51002711	-0.016761391	PASS
KLK9	19	51003111	51009634	-0.016761391	PASS
KLKB1	4	186208979	186258471	-0.462744716	PASS
KLLN	10	87859161	87863437	-1.64589449	suppress_large_homdel
KLRB1	12	9594551	9607886	0.362961408	suppress_segment_too_large
KLRC1	12	10442264	10454685	0.362961408	suppress_segment_too_large
KLRC2	12	10426854	10442300	0.362961408	suppress_segment_too_large

KLRC3	12	10412312	10420595	0.362961408	suppress_segment_too_large
KLRC4	12	10407382	10409757	0.362961408	suppress_segment_too_large
KLRC4-KI	12	10372353	10410146	0.362961408	suppress_segment_too_large
KLRD1	12	10226058	10329600	0.362961408	suppress_segment_too_large
KLRF1	12	9827481	9845007	0.362961408	suppress_segment_too_large
KLRF2	12	9881489	9895833	0.362961408	suppress_segment_too_large
KLRG1	12	8950044	9010760	0.362961408	suppress_segment_too_large
KLRG2	7	139452690	139483712	-0.388946609	PASS
KLRK1	12	10372353	10391874	0.362961408	suppress_segment_too_large
KMO	1	241532134	241595642	-0.648598641	PASS
KMT2A	11	118436464	118526832	-0.356188624	PASS
KMT2B	19	35718019	35738878	0.093487731	suppress_segment_too_large
KMT2C	7	152134922	152436005	-0.388946609	PASS
KMT2D	12	49018975	49059774	-0.202191512	PASS
KMT2E	7	105014179	105114361	-0.388946609	PASS
KMT5A	12	123383773	123409358	0.202141228	PASS
KMT5B	11	68154863	68213828	0.182439925	suppress_segment_too_large
KMT5C	19	55339853	55348120	0.121336758	PASS
KNCN	1	46545644	46551527	0.033763446	PASS
KNDC1	10	133160447	133226412	0.063874692	PASS
KNG1	3	186717276	186744410	0.318278996	suppress_segment_too_large
KNL1	15	40594020	40664342	-0.396255771	PASS
KNOP1	16	19701934	19718235	0.069936844	PASS
KNSTRN	15	40382721	40394246	-0.396255771	PASS
KNTC1	12	122527246	122626396	0.202141228	PASS
KPNA1	3	122421949	122514945	0.313454204	suppress_segment_too_large
KPNA2	17	68035519	68046842	0.088516311	PASS
KPNA3	13	49699307	49792921	-0.390786075	PASS
KPNA4	3	160494995	160565588	0.318278996	suppress_segment_too_large
KPNA5	6	116681187	116741866	-0.368590549	PASS
KPNA6	1	32108038	32176568	0.033763446	PASS
KPNA7	7	99173574	99207506	-0.262778904	PASS
KPNB1	17	47649476	47685505	0.088516311	PASS
KPRP	1	152759561	152762052	0.103015788	PASS
KPTN	19	47475144	47484268	0.14996833	PASS
KRAS	12	25204789	25250936	0.362961408	suppress_segment_too_large
KRBA1	7	149714781	149734575	-0.388946609	PASS
KRBA2	17	8356902	8376711	0.128406487	PASS
KRBOX1	3	42809483	42942792	-0.234617007	PASS
KRBOX4	23	46446857	46497422	-0.012567603	PASS
KRCC1	2	88027205	88055729	-0.340781246	PASS
KREMEN1	22	29073078	29168333	-0.575930959	PASS
KREMEN2	16	2963944	2968383	0.069936844	PASS
KRI1	19	10553078	10566037	0.093487731	suppress_segment_too_large
KRIT1	7	92198969	92246166	-0.262778904	PASS
KRR1	12	75490861	75511636	0.202141228	PASS

KRT1	12	52674736	52680407	-0.202191512	PASS
KRT10	17	40818117	40822595	0.060555011	PASS
KRT12	17	40860943	40867224	0.060555011	PASS
KRT13	17	41500981	41505705	0.060555011	PASS
KRT14	17	41582279	41586921	0.060555011	PASS
KRT15	17	41513743	41522529	0.060555011	PASS
KRT16	17	41609778	41615899	0.060555011	PASS
KRT17	17	41619441	41624842	0.060555011	PASS
KRT18	12	52948871	52952901	-0.202191512	PASS
KRT19	17	41523617	41528308	0.060555011	PASS
KRT2	12	52644558	52652164	-0.202191512	PASS
KRT20	17	40875941	40885227	0.060555011	PASS
KRT222	17	40654665	40665181	0.060555011	PASS
KRT23	17	40922696	40937634	0.060555011	PASS
KRT24	17	40697991	40703750	0.060555011	PASS
KRT25	17	40748021	40755332	0.060555011	PASS
KRT26	17	40766238	40772162	0.060555011	PASS
KRT27	17	40776808	40782534	0.060555011	PASS
KRT28	17	40792203	40799959	0.060555011	PASS
KRT3	12	52789685	52796117	-0.202191512	PASS
KRT31	17	41393724	41397592	0.060555011	PASS
KRT32	17	41459811	41467429	0.060555011	PASS
KRT33A	17	41346092	41350812	0.060555011	PASS
KRT33B	17	41363494	41369800	0.060555011	PASS
KRT34	17	41377650	41382403	0.060555011	PASS
KRT35	17	41476689	41481140	0.060555011	PASS
KRT36	17	41486136	41492546	0.060555011	PASS
KRT37	17	41420753	41424523	0.060555011	PASS
KRT38	17	41436446	41440921	0.060555011	PASS
KRT39	17	40958417	40966892	0.060555011	PASS
KRT4	12	52806549	52814551	-0.202191512	PASS
KRT40	17	40977716	40987135	0.060555011	PASS
KRT5	12	52514575	52520687	-0.202191512	PASS
KRT6A	12	52487174	52493257	-0.202191512	PASS
KRT6B	12	52446651	52452126	-0.202191512	PASS
KRT6C	12	52468516	52473785	-0.202191512	PASS
KRT7	12	52232520	52252186	-0.202191512	PASS
KRT71	12	52543909	52553147	-0.202191512	PASS
KRT72	12	52585589	52601538	-0.202191512	PASS
KRT73	12	52607570	52618559	-0.202191512	PASS
KRT74	12	52565782	52573825	-0.202191512	PASS
KRT75	12	52424070	52434525	-0.202191512	PASS
KRT76	12	52768155	52777345	-0.202191512	PASS
KRT77	12	52689626	52703463	-0.202191512	PASS
KRT78	12	52837804	52849092	-0.202191512	PASS
KRT79	12	52821410	52834295	-0.202191512	PASS

KRT8	12	52897187	52949954	-0.202191512	PASS
KRT80	12	52168996	52192000	-0.202191512	PASS
KRT81	12	52285913	52291534	-0.202191512	PASS
KRT82	12	52393931	52406355	-0.202191512	PASS
KRT83	12	52314301	52321398	-0.202191512	PASS
KRT84	12	52377812	52385652	-0.202191512	PASS
KRT85	12	52360006	52367481	-0.202191512	PASS
KRT86	12	52249300	52309163	-0.202191512	PASS
KRT9	17	41565841	41572058	0.060555011	PASS
KRTAP1-1	17	41040559	41041461	0.060555011	PASS
KRTAP1-3	17	41033884	41034855	0.060555011	PASS
KRTAP1-4	17	41029697	41030104	0.060555011	PASS
KRTAP1-5	17	41026026	41027202	0.060555011	PASS
KRTAP10-	21	44538981	44540195	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44637356	44638455	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44646414	44647650	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44697172	44698044	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44550357	44551505	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44557790	44558760	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44573724	44638284	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44579455	44580604	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44591268	44592505	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44600597	44602174	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44612079	44612954	-0.064425456	suppress_segment_too_large
KRTAP10-	21	44627123	44628293	-0.064425456	suppress_segment_too_large
KRTAP11-	21	30880644	30881555	0.12860881	suppress_segment_too_large
KRTAP12-	21	44681576	44682163	-0.064425456	suppress_segment_too_large
KRTAP12-	21	44666189	44666927	-0.064425456	suppress_segment_too_large
KRTAP12-	21	44657932	44658341	-0.064425456	suppress_segment_too_large
KRTAP12-	21	44654213	44654659	-0.064425456	suppress_segment_too_large
KRTAP13-	21	30396074	30396822	0.12860881	suppress_segment_too_large
KRTAP13-	21	30371391	30372257	0.12860881	suppress_segment_too_large
KRTAP13-	21	30425265	30425968	0.12860881	suppress_segment_too_large
KRTAP13-	21	30430230	30431026	0.12860881	suppress_segment_too_large
KRTAP15-	21	30440275	30440945	0.12860881	suppress_segment_too_large
KRTAP16-	17	41307700	41309253	0.060555011	PASS
KRTAP17-	17	41314917	41315695	0.060555011	PASS
KRTAP19-	21	30479699	30480344	0.12860881	suppress_segment_too_large
KRTAP19-	21	30487057	30487436	0.12860881	suppress_segment_too_large
KRTAP19-	21	30491464	30491985	0.12860881	suppress_segment_too_large
KRTAP19-	21	30496824	30497133	0.12860881	suppress_segment_too_large
KRTAP19-	21	30501657	30502117	0.12860881	suppress_segment_too_large
KRTAP19-	21	30541535	30541864	0.12860881	suppress_segment_too_large
KRTAP19-	21	30560875	30561314	0.12860881	suppress_segment_too_large
KRTAP19-	21	31038159	31038476	0.12860881	suppress_segment_too_large
KRTAP2-1	17	41046541	41047316	0.060555011	PASS

KRTAP2-2	17	41054498	41055230	0.060555011	PASS
KRTAP2-3	17	41059240	41060114	0.060555011	PASS
KRTAP2-4	17	41065116	41065879	0.060555011	PASS
KRTAP20-	21	30616425	30616699	0.12860881	suppress_segment_too_large
KRTAP20-	21	30635236	30635619	0.12860881	suppress_segment_too_large
KRTAP20-	21	30642864	30643136	0.12860881	suppress_segment_too_large
KRTAP20-	21	30620627	30620850	0.12860881	suppress_segment_too_large
KRTAP21-	21	30754830	30755428	0.12860881	suppress_segment_too_large
KRTAP21-	21	30746794	30747233	0.12860881	suppress_segment_too_large
KRTAP21-	21	30718525	30718777	0.12860881	suppress_segment_too_large
KRTAP22-	21	30601087	30601382	0.12860881	suppress_segment_too_large
KRTAP24-	21	30281309	30282958	0.12860881	suppress_segment_too_large
KRTAP25-	21	30289145	30289514	0.12860881	suppress_segment_too_large
KRTAP26-	21	30319124	30320316	0.12860881	suppress_segment_too_large
KRTAP27-	21	30337013	30337694	0.12860881	suppress_segment_too_large
KRTAP29-	17	41301826	41302851	0.060555011	PASS
KRTAP3-1	17	41008521	41019324	0.060555011	PASS
KRTAP3-2	17	40999193	40999894	0.060555011	PASS
KRTAP3-3	17	40993430	40994133	0.060555011	PASS
KRTAP4-1	17	41184102	41185342	0.060555011	PASS
KRTAP4-1	17	41117181	41118360	0.060555011	PASS
KRTAP4-1	17	41123091	41124167	0.060555011	PASS
KRTAP4-1	17	41101502	41102209	0.060555011	PASS
KRTAP4-2	17	41177446	41178208	0.060555011	PASS
KRTAP4-3	17	41167231	41168194	0.060555011	PASS
KRTAP4-4	17	41159651	41160731	0.060555011	PASS
KRTAP4-5	17	41148924	41149802	0.060555011	PASS
KRTAP4-6	17	41139433	41140487	0.060555011	PASS
KRTAP4-7	17	41084150	41085141	0.060555011	PASS
KRTAP4-8	17	41096981	41098141	0.060555011	PASS
KRTAP4-9	17	41105332	41106488	0.060555011	PASS
KRTAP5-1	11	1584342	1585283	-0.333835828	PASS
KRTAP5-1	11	71565563	71566738	0.062969153	PASS
KRTAP5-1	11	71579714	71603353	0.062969153	PASS
KRTAP5-2	11	1597177	1598294	-0.333835828	PASS
KRTAP5-3	11	1607565	1608463	-0.333835828	PASS
KRTAP5-4	11	1620958	1622138	-0.333835828	PASS
KRTAP5-5	11	1629775	1630707	-0.333835828	PASS
KRTAP5-6	11	1697195	1697755	-0.333835828	PASS
KRTAP5-7	11	71527267	71528674	0.062969153	PASS
KRTAP5-8	11	71538025	71539207	0.062969153	PASS
KRTAP5-9	11	71548418	71549553	0.062969153	PASS
KRTAP6-1	21	30613431	30613930	0.12860881	suppress_segment_too_large
KRTAP6-2	21	30598590	30598902	0.12860881	suppress_segment_too_large
KRTAP6-3	21	30592440	30593075	0.12860881	suppress_segment_too_large
KRTAP7-1	21	30829039	30829759	0.12860881	suppress_segment_too_large

KRTAP8-1	21	30812697	30813252	0.12860881	suppress_segment_too_large
KRTAP9-1	17	41189887	41190639	0.060555011	PASS
KRTAP9-2	17	41226648	41227652	0.060555011	PASS
KRTAP9-3	17	41232463	41233454	0.060555011	PASS
KRTAP9-4	17	41249687	41250653	0.060555011	PASS
KRTAP9-6	17	41265339	41266641	0.060555011	PASS
KRTAP9-7	17	41275659	41276697	0.060555011	PASS
KRTAP9-8	17	41238045	41239004	0.060555011	PASS
KRTAP9-9	17	41255384	41256364	0.060555011	PASS
KRTCAP2	1	155169408	155173475	0.103015788	PASS
KRTCAP3	2	27442366	27446481	0.040498426	PASS
KRTDAP	19	35487324	35495558	0.093487731	suppress_segment_too_large
KSR1	17	27456470	27626438	0.060555011	PASS
KSR2	12	117453012	117968983	0.202141228	PASS
KTI12	1	52032103	52033816	0.033763446	PASS
KTN1	14	55559072	55701526	0.060212819	PASS
KXD1	19	18557762	18569387	0.093487731	suppress_segment_too_large
KY	3	134603138	134651636	0.313454204	suppress_segment_too_large
KYAT1	9	128832942	128882494	0.365190713	suppress_segment_too_large
KYAT3	1	88935773	88992953	0.033763446	PASS
KYNU	2	142877498	143055832	-0.475215623	PASS
L1CAM	23	153861514	153886174	-0.012567603	PASS
L1TD1	1	62194831	62212328	0.033763446	PASS
L2HGDH	14	50237563	50312548	0.060212819	PASS
L34079.1	19	43554692	43593036	0.14996833	PASS
L3HYPDH	14	59460363	59484430	0.060212819	PASS
L3MBTL1	20	43489442	43550950	-0.168668583	PASS
L3MBTL2	22	41205205	41231271	-0.575930959	PASS
L3MBTL3	6	130013699	130141451	-0.458570262	PASS
L3MBTL4	18	5954706	6415237	-0.052305056	suppress_segment_too_large
LACC1	13	43879284	43893932	-0.390786075	PASS
LACRT	12	54630811	54634895	-0.202191512	PASS
LACTB	15	63121800	63142061	-0.697600509	PASS
LACTB2	8	70635318	70669174	-0.201142258	PASS
LACTBL1	1	22953043	22965338	0.033763446	PASS
LAD1	1	201373244	201399915	-0.256698369	PASS
LAG3	12	6772512	6778455	-0.086128028	PASS
LAGE3	23	154477769	154479257	-0.012567603	PASS
LAIR1	19	54351384	54370558	-0.146906334	PASS
LAIR2	19	54497879	54510687	-0.146906334	PASS
LALBA	12	48567684	48570066	-0.202191512	PASS
LAMA1	18	6941744	7117814	-0.052305056	suppress_segment_too_large
LAMA2	6	128883141	129516569	-0.458570262	PASS
LAMA3	18	23689443	23956222	-0.376397843	PASS
LAMA4	6	112108760	112254939	-0.368590549	PASS
LAMA5	20	62307955	62367312	-0.168668583	PASS

LAMB1	7	107923799	108003255	-0.388946609	PASS
LAMB2	3	49121114	49133118	-0.234617007	PASS
LAMB3	1	209614870	209652466	-0.256698369	PASS
LAMB4	7	108023548	108130356	-0.388946609	PASS
LAMC1	1	183023460	183145592	-0.027073548	PASS
LAMC2	1	183186238	183244900	-0.027073548	PASS
LAMC3	9	131009082	131094473	0.365190713	suppress_segment_too_large
LAMP1	13	113297241	113323672	-0.390786075	PASS
LAMP2	23	120427827	120469365	-0.012567603	PASS
LAMP3	3	183122213	183163839	0.318278996	suppress_segment_too_large
LAMP5	20	9514358	9530524	-0.168668583	PASS
LAMTOR1	11	72085895	72103387	0.062969153	PASS
LAMTOR2	1	156054752	156058510	0.103015788	PASS
LAMTOR3	4	99878336	99894490	-0.011382299	PASS
LAMTOR4	7	100148907	100155944	-0.262778904	PASS
LAMTOR5	1	110401249	110407942	0.033763446	PASS
LANCL1	2	210431249	210477652	0.025928102	PASS
LANCL2	7	55365448	55433742	-0.750061359	PASS
LANCL3	23	37571569	37684463	-0.012567603	PASS
LAP3	4	17577192	17607972	0.279089364	PASS
LAPTM4A	2	20032650	20052028	0.040498426	PASS
LAPTM4B	8	97775057	97853013	0.279445683	PASS
LAPTM5	1	30732469	30757820	0.033763446	PASS
LARGE1	22	33162226	33922841	-0.575930959	PASS
LARGE2	11	45921621	45929096	0.117376172	PASS
LARP1	5	154712902	154817607	-0.293443042	PASS
LARP1B	4	128061268	128222931	-0.011382299	PASS
LARP4	12	50392383	50480004	-0.202191512	PASS
LARP4B	10	806914	931705	0.039811807	PASS
LARP6	15	70829130	70854159	-0.697600509	PASS
LARP7	4	112636964	112657592	-0.011382299	PASS
LARS	5	146113038	146182660	-0.293443042	PASS
LARS2	3	45388506	45549421	-0.234617007	PASS
LAS1L	23	65512582	65534775	-0.012567603	PASS
LASP1	17	38869859	38921770	0.060555011	PASS
LAT	16	28984826	28990783	0.069936844	PASS
LAT2	7	74199652	74229834	-0.262778904	PASS
LATS1	6	149658153	149718256	-0.035448111	PASS
LATS2	13	20973032	21061547	-0.390786075	PASS
LAX1	1	203765176	203776233	-0.256698369	PASS
LAYN	11	111540280	111561745	-0.356188624	PASS
LBH	2	30231369	30323730	0.040498426	PASS
LBHD1	11	62662817	62672255	0.182439925	suppress_segment_too_large
LBHD2	14	103084210	103090027	-0.192197564	PASS
LBP	20	38346356	38377023	-0.168668583	PASS
LBR	1	225401502	225428925	-0.256698369	PASS

LBX1	10	101226195	101229794	-0.367947924	PASS
LBX2	2	74497517	74503316	-0.372959126	PASS
LCA5	6	79484991	79537458	-0.368590549	PASS
LCA5L	21	39405844	39445805	-0.064425456	suppress_segment_too_large
LCAT	16	67939750	67944131	-0.371357732	PASS
LCE1A	1	152827473	152827894	0.103015788	PASS
LCE1B	1	152811971	152813109	0.103015788	PASS
LCE1C	1	152804835	152806628	0.103015788	PASS
LCE1D	1	152796751	152798181	0.103015788	PASS
LCE1E	1	152786214	152788426	0.103015788	PASS
LCE1F	1	152776372	152776728	0.103015788	PASS
LCE2A	1	152698364	152699442	0.103015788	PASS
LCE2B	1	152686123	152687401	0.103015788	PASS
LCE2C	1	152675295	152676574	0.103015788	PASS
LCE2D	1	152663396	152664659	0.103015788	PASS
LCE3A	1	152622834	152623103	0.103015788	PASS
LCE3B	1	152613811	152614098	0.103015788	PASS
LCE3C	1	152600662	152601086	0.103015788	PASS
LCE3D	1	152579381	152580504	0.103015788	PASS
LCE3E	1	152565654	152566772	0.103015788	PASS
LCE4A	1	152708160	152709491	0.103015788	PASS
LCE5A	1	152510844	152512177	0.103015788	PASS
LCE6A	1	152842868	152843983	0.103015788	PASS
LCK	1	32251239	32286165	0.033763446	PASS
LCLAT1	2	30447226	30644225	0.040498426	PASS
LCMT1	16	25111729	25178231	0.069936844	PASS
LCMT2	15	43323649	43330605	-0.396255771	PASS
LCN1	9	135521438	135526532	0.365190713	suppress_segment_too_large
LCN10	9	136738167	136743356	0.365190713	suppress_segment_too_large
LCN12	9	136949551	136955497	0.365190713	suppress_segment_too_large
LCN15	9	136759634	136766255	0.365190713	suppress_segment_too_large
LCN2	9	128149071	128153455	0.365190713	suppress_segment_too_large
LCN6	9	136744011	136748528	0.365190713	suppress_segment_too_large
LCN8	9	136754386	136758543	0.365190713	suppress_segment_too_large
LCN9	9	135663322	135666422	0.365190713	suppress_segment_too_large
LCNL1	9	136981904	136986410	0.365190713	suppress_segment_too_large
LCOR	10	96832282	96995959	-0.367947924	PASS
LCORL	4	17841199	18021876	0.279089364	PASS
LCP1	13	46125920	46211871	-0.390786075	PASS
LCP2	5	170246237	170298227	-0.150979337	PASS
LCT	2	135787840	135837180	-0.475215623	PASS
LCTL	15	66547179	66565979	-0.697600509	PASS
LDAH	2	20684014	20823130	0.040498426	PASS
LDB1	10	102107560	102120453	-0.367947924	PASS
LDB2	4	16501541	16898809	0.279089364	PASS
LDB3	10	86668449	86736068	-0.292453993	PASS

LDHA	11	18394388	18408425	-0.405444717	PASS
LDHAL6A	11	18455824	18479600	-0.405444717	PASS
LDHAL6B	15	59206823	59208515	-0.697600509	PASS
LDHB	12	21635342	21757857	0.362961408	suppress_segment_too_large
LDHC	11	18412307	18452058	-0.405444717	PASS
LDHD	16	75111860	75116771	-0.371357732	PASS
LDLR	19	11089362	11133816	0.093487731	suppress_segment_too_large
LDLRAD1	1	54007299	54018186	0.033763446	PASS
LDLRAD2	1	21812265	21825221	0.033763446	PASS
LDLRAD3	11	35943981	36232136	-0.405444717	PASS
LDLRAD4	18	13217498	13652755	-0.052305056	suppress_segment_too_large
LDLRAP1	1	25543580	25568886	0.033763446	PASS
LDOC1	23	141175745	141177125	-0.012567603	PASS
LEAP2	5	132872322	132875046	-0.293443042	PASS
LECT2	5	135922279	135955034	-0.293443042	PASS
LEF1	4	108047545	108168956	-0.011382299	PASS
LEFTY1	1	225886282	225911382	-0.256698369	PASS
LEFTY2	1	225936598	225941489	-0.256698369	PASS
LEKR1	3	156825481	157046129	0.318278996	suppress_segment_too_large
LELP1	1	153203443	153205120	0.103015788	PASS
LEMD1	1	205381378	205457091	-0.256698369	PASS
LEMD2	6	33771202	33789136	0.048820648	PASS
LEMD3	12	65169571	65248327	-0.202191512	PASS
LENEP	1	154993586	154994315	0.103015788	PASS
LENG1	19	54155161	54159882	0.206912349	PASS
LENG8	19	54448887	54462037	-0.146906334	PASS
LENG9	19	54461796	54463711	-0.146906334	PASS
LEO1	15	51938025	51971806	-0.396255771	PASS
LEP	7	128241284	128257628	-0.388946609	PASS
LEPR	1	65420652	65641559	0.033763446	PASS
LEPROT	1	65420587	65436007	0.033763446	PASS
LEPROTL1	8	30095398	30177208	-0.345962679	PASS
LETM1	4	1811479	1856247	0.279089364	PASS
LETM2	8	38386207	38409527	-0.201142258	PASS
LETMD1	12	51047962	51060424	-0.202191512	PASS
LEUTX	19	39776595	39786167	0.093487731	suppress_segment_too_large
LEXM	1	54806063	54842252	0.033763446	PASS
LFNG	7	2512529	2529177	-0.69513118	PASS
LGALS1	22	37675608	37679806	-0.575930959	PASS
LGALS12	11	63506084	63516774	0.182439925	suppress_segment_too_large
LGALS13	19	39602501	39607476	0.093487731	suppress_segment_too_large
LGALS14	19	39704306	39709444	0.093487731	suppress_segment_too_large
LGALS16	19	39655894	39660647	0.093487731	suppress_segment_too_large
LGALS2	22	37570246	37582616	-0.575930959	PASS
LGALS3	14	55124110	55145413	0.060212819	PASS
LGALS3BP	17	78971238	78980109	0.088516311	PASS

LGALS4	19	38801671	38813364	0.093487731	suppress_segment_too_large
LGALS7	19	38770971	38773492	0.093487731	suppress_segment_too_large
LGALS7B	19	38789211	38791749	0.093487731	suppress_segment_too_large
LGALS8	1	236518000	236552981	-0.256698369	PASS
LGALS9	17	27629798	27649560	0.060555011	PASS
LGALS9B	17	20449395	20467539	0.024610076	PASS
LGALS9C	17	18476737	18494945	0.024610076	PASS
LGALSL	2	64453969	64461381	-0.372959126	PASS
LGI1	10	93757809	93806272	-0.39678585	PASS
LGI2	4	24998847	25030879	0.279089364	PASS
LGI3	8	22146825	22157084	-0.345962679	PASS
LGI4	19	35124513	35142451	0.093487731	suppress_segment_too_large
LGMN	14	92703807	92748702	-0.192197564	PASS
LGR4	11	27365961	27472775	-0.405444717	PASS
LGR5	12	71439770	71586310	-0.202191512	PASS
LGR6	1	202193901	202319781	-0.256698369	PASS
LGSN	6	63275951	63319977	0.048820648	PASS
LHB	19	49015980	49017091	0.14996833	PASS
LHCGR	2	48686775	48755730	0.040498426	PASS
LHFPL1	23	112630648	112680054	-0.012567603	PASS
LHFPL2	5	78485215	78770021	-0.293443042	PASS
LHFPL3	7	104328656	104907232	-0.388946609	PASS
LHFPL4	3	9498361	9553802	0.311018244	suppress_segment_too_large
LHFPL5	6	35805293	35833874	0.048820648	PASS
LHFPL6	13	39209116	39603528	-0.390786075	PASS
LHPP	10	124461834	124617888	0.063874692	PASS
LHX1	17	36936785	36944612	0.060555011	PASS
LHX2	9	124001670	124033301	0.365190713	suppress_segment_too_large
LHX3	9	136196250	136205128	0.365190713	suppress_segment_too_large
LHX4	1	180230286	180278982	-0.027073548	PASS
LHX5	12	113462034	113472280	0.202141228	PASS
LHX6	9	122202577	122229626	0.365190713	suppress_segment_too_large
LHX8	1	75128434	75161533	0.033763446	PASS
LHX9	1	197911902	197935478	-0.027073548	PASS
LIAS	4	39458587	39485109	-0.011382299	PASS
LIF	22	30240447	30246851	-0.575930959	PASS
LIFR	5	38474963	38608354	0.055007813	PASS
LIG1	19	48115445	48170603	0.14996833	PASS
LIG3	17	34980494	35009743	0.060555011	PASS
LIG4	13	108207439	108218368	-0.390786075	PASS
LILRA1	19	54593582	54602090	-0.146906334	PASS
LILRA2	19	54572920	54590287	-0.146906334	PASS
LILRA4	19	54333185	54339150	-0.146906334	PASS
LILRA5	19	54307070	54313139	-0.146906334	PASS
LILRA6	19	54236592	54242791	-0.146906334	PASS
LILRB1	19	54617158	54637528	-0.146906334	PASS

LILRB2	19	54273821	54281184	-0.146906334	PASS
LILRB3	19	54216278	54223506	0.206912349	PASS
LILRB4	19	54643889	54670359	-0.146906334	PASS
LILRB5	19	54249431	54257301	-0.146906334	PASS
LIM2	19	51379909	51387960	-0.016761391	PASS
LIMA1	12	50175788	50283546	-0.202191512	PASS
LIMCH1	4	41359607	41700044	-0.011382299	PASS
LIMD1	3	45555394	45686338	-0.234617007	PASS
LIMD2	17	63695902	63701172	0.088516311	PASS
LIME1	20	63736283	63739103	-0.168668583	PASS
LIMK1	7	74082933	74122525	-0.262778904	PASS
LIMK2	22	31212239	31280080	-0.575930959	PASS
LIMS1	2	108534355	108687246	-0.010901494	PASS
LIMS2	2	127638381	127681786	-0.475215623	PASS
LIMS3	2	109898428	109924868	-0.010901494	PASS
LIMS3-LO	2	109898432	109968557	-0.010901494	PASS
LIN28A	1	26410778	26429722	0.033763446	PASS
LIN28B	6	104936616	105083332	-0.368590549	PASS
LIN37	19	35748361	35754519	0.093487731	suppress_segment_too_large
LIN52	14	74084796	74201235	0.060212819	PASS
LIN54	4	82909973	83012926	-0.011382299	PASS
LIN7A	12	80792520	80937925	0.202141228	PASS
LIN7B	19	49114324	49118460	0.14996833	PASS
LIN7C	11	27494576	27506773	-0.405444717	PASS
LIN9	1	226231149	226309869	-0.256698369	PASS
LINC0220	15	21552795	21653276	-0.750600437	PASS
LINC0221	17	45620344	45835826	0.088516311	PASS
LINC0221	5	17444010	17486829	0.055007813	PASS
LINGO1	15	77613027	77820900	-0.697600509	PASS
LINGO2	9	27948078	28670286	-0.310444659	PASS
LINGO3	19	2289784	2292024	0.079632875	PASS
LINGO4	1	151800264	151806154	0.103015788	PASS
LINS1	15	100559369	100603230	-0.697600509	PASS
LIPA	10	89213569	89414557	-0.39678585	PASS
LIPC	15	58410569	58569843	-0.697600509	PASS
LIPE	19	42401507	42427426	0.093487731	suppress_segment_too_large
LIPF	10	88664441	88678814	-1.64589449	suppress_large_homdel
LIPG	18	49560699	49599182	-0.376397843	PASS
LIPH	3	185506262	185552613	0.318278996	suppress_segment_too_large
LIPI	21	14108813	14210891	-0.304975024	PASS
LIPJ	10	88586753	88606976	-1.64589449	suppress_large_homdel
LIPK	10	88724544	88752786	-1.64589449	suppress_large_homdel
LIPM	10	88802730	88820546	-1.64589449	suppress_large_homdel
LIPN	10	88761406	88778242	-1.64589449	suppress_large_homdel
LIPT1	2	99154955	99163157	0.048238121	PASS
LIPT2	11	74491712	74493733	0.062969153	PASS

LITAF	16	11547722	11636381	0.069936844	PASS
LIX1	5	97091867	97142872	-0.293443042	PASS
LIX1L	1	145933423	145958001	-0.157385092	PASS
LKAAEAR	20	64083380	64084359	-0.168668583	PASS
LLCFC1	7	142939343	142940868	-0.388946609	PASS
LLGL1	17	18225587	18244875	0.024610076	PASS
LLGL2	17	75525080	75575208	0.088516311	PASS
LLPH	12	66116555	66130768	-0.202191512	PASS
LMAN1	18	59327823	59359962	-0.376397843	PASS
LMAN1L	15	74812716	74825758	-0.697600509	PASS
LMAN2	5	177331562	177351852	-0.150979337	PASS
LMAN2L	2	96705929	96740064	0.048238121	PASS
LMBR1	7	156668946	156893230	-0.411415677	PASS
LMBR1L	12	49096551	49110900	-0.202191512	PASS
LMBRD1	6	69675793	69867236	-0.368590549	PASS
LMBRD2	5	36098412	36151961	0.055007813	PASS
LMCD1	3	8501707	8574673	0.311018244	suppress_segment_too_large
LMF1	16	853634	981318	0.069936844	PASS
LMF2	22	50502949	50507691	-0.808211634	PASS
LMLN	3	197960200	198043720	0.326834516	PASS
LMNA	1	156082573	156140089	0.103015788	PASS
LMNB1	5	126776623	126837020	-0.293443042	PASS
LMNB2	19	2427638	2456996	0.079632875	PASS
LMNTD1	12	25409307	25648579	0.362961408	suppress_segment_too_large
LMNTD2	11	554855	560779	-0.333835828	PASS
LMO1	11	8224304	8268716	-0.405444717	PASS
LMO2	11	33858576	33892289	-0.405444717	PASS
LMO3	12	16548373	16610594	0.362961408	suppress_segment_too_large
LMO4	1	87328468	87348923	0.033763446	PASS
LMO7	13	75620434	75859870	-0.390786075	PASS
LMOD1	1	201896452	201946588	-0.256698369	PASS
LMOD2	7	123655807	123664290	-0.388946609	PASS
LMOD3	3	69106872	69123032	-0.234617007	PASS
LMTK2	7	98106885	98209633	-0.262778904	PASS
LMTK3	19	48485271	48513935	0.14996833	PASS
LMX1A	1	165201867	165356715	-0.027073548	PASS
LMX1B	9	126614443	126701032	0.365190713	suppress_segment_too_large
LNP1	3	100401193	100456319	0.313454204	suppress_segment_too_large
LNPEP	5	96935394	97037515	-0.293443042	PASS
LNPK	2	175923892	176002839	0.039726562	PASS
LNX1	4	53459301	53701405	-0.011382299	PASS
LNX2	13	27545911	27620404	-0.390786075	PASS
LONP1	19	5691834	5720572	0.079632875	PASS
LONP2	16	48244296	48363122	0.069936844	PASS
LONRF1	8	12721894	12756073	-0.345962679	PASS
LONRF2	2	100273291	100322733	0.048238121	PASS

LONRF3	23	118974614	119018355	-0.012567603	PASS
LOR	1	153259700	153262122	0.103015788	PASS
LOX	5	122063195	122078360	-0.293443042	PASS
LOXHD1	18	46476972	46657220	-0.376397843	PASS
LOXL1	15	73925989	73952137	-0.697600509	PASS
LOXL2	8	23297189	23425328	-0.345962679	PASS
LOXL3	2	74532414	74555690	-0.372959126	PASS
LOXL4	10	98247690	98268250	-0.367947924	PASS
LPA	6	160531483	160664259	-0.035448111	PASS
LPAR1	9	110873263	111038458	0.365190713	suppress_segment_too_large
LPAR2	19	19623668	19628930	0.093487731	suppress_segment_too_large
LPAR3	1	84811602	84893213	0.033763446	PASS
LPAR4	23	78747709	78757094	-0.012567603	PASS
LPAR5	12	6618835	6636447	-0.086128028	PASS
LPAR6	13	48389567	48444704	-0.390786075	PASS
LPCAT1	5	1456480	1523977	0.055007813	PASS
LPCAT2	16	55508998	55586670	-0.371357732	PASS
LPCAT3	12	6976186	7018510	-0.086128028	PASS
LPCAT4	15	34358618	34367278	-0.396255771	PASS
LPGAT1	1	211743457	211830772	-0.256698369	PASS
LPIN1	2	11677595	11827409	0.040498426	PASS
LPIN2	18	2916994	3013315	-0.052305056	suppress_segment_too_large
LPIN3	20	41340920	41360582	-0.168668583	PASS
LPL	8	19901717	19967259	-0.345962679	PASS
LPO	17	58218548	58268518	0.088516311	PASS
LPP	3	188153284	188890671	0.318278996	suppress_segment_too_large
LPXN	11	58526871	58578220	-0.129266491	PASS
LRAT	4	154626945	154753118	-0.011382299	PASS
LRBA	4	150264531	151015727	-0.011382299	PASS
LRCH1	13	46553168	46753040	-0.390786075	PASS
LRCH2	23	115110616	115234072	-0.012567603	PASS
LRCH3	3	197791226	197888436	0.326834516	PASS
LRCH4	7	100574011	100586153	-0.262778904	PASS
LRCOL1	12	132603150	132610543	0.270848837	PASS
LRFN1	19	39306568	39315336	0.093487731	suppress_segment_too_large
LRFN2	6	40391586	40587465	0.048820648	PASS
LRFN3	19	35935358	35945767	0.093487731	suppress_segment_too_large
LRFN4	11	66856647	66860475	0.182439925	suppress_segment_too_large
LRFN5	14	41607570	41904549	0.060212819	PASS
LRG1	19	4536409	4540474	0.079632875	PASS
LRGUK	7	134127299	134264591	-0.388946609	PASS
LRIF1	1	110947185	110964079	0.033763446	PASS
LRIG1	3	66378797	66501263	-0.234617007	PASS
LRIG2	1	113073209	113132260	0.033763446	PASS
LRIG3	12	58872149	58920522	-0.202191512	PASS
LRIT1	10	84231593	84241461	0.072405807	PASS

LRIT2	10	84220495	84225589	0.072405807	PASS
LRIT3	4	109848202	109872315	-0.011382299	PASS
LRMDA	10	75431453	76560167	0.072405807	PASS
LRMP	12	25004342	25108334	0.362961408	suppress_segment_too_large
LRP1	12	57128493	57213351	-0.202191512	PASS
LRP10	14	22871613	22881580	0.060212819	PASS
LRP11	6	149818798	149864026	-0.035448111	PASS
LRP12	8	104489231	104589024	0.279445683	PASS
LRP1B	2	140231423	142131701	-0.475215623	PASS
LRP2	2	169127109	169362685	0.039726562	PASS
LRP2BP	4	185363879	185395899	-0.462744716	PASS
LRP3	19	33177603	33208867	0.093487731	suppress_segment_too_large
LRP4	11	46856868	46918642	0.117376172	PASS
LRP5	11	68312609	68449275	0.182439925	suppress_segment_too_large
LRP5L	22	25351418	25405377	-0.575930959	PASS
LRP6	12	12116025	12267012	0.362961408	suppress_segment_too_large
LRP8	1	53242364	53328070	0.033763446	PASS
LRPAP1	4	3503597	3532559	0.279089364	PASS
LRPPRC	2	43886508	43996005	0.040498426	PASS
LRR1	14	49598697	49614672	0.060212819	PASS
LRRC1	6	53794497	53924121	0.048820648	PASS
LRRC10	12	69608564	69611162	-0.202191512	PASS
LRRC10B	11	61508800	61511018	0.182439925	suppress_segment_too_large
LRRC14	8	144517992	144525178	0.307788765	PASS
LRRC14B	5	191511	195353	0.055007813	PASS
LRRC15	3	194355247	194369743	0.326834516	PASS
LRRC17	7	102912991	102944949	-0.388946609	PASS
LRRC18	10	48909483	48914232	-0.404852538	PASS
LRRC19	9	26993136	27005693	-0.310444659	PASS
LRRC2	3	46515423	46580099	-0.234617007	PASS
LRRC20	10	70298970	70382650	0.072405807	PASS
LRRC23	12	6873569	6914243	-0.086128028	PASS
LRRC24	8	144522377	144527032	0.307788765	PASS
LRRC25	19	18391144	18397617	0.093487731	suppress_segment_too_large
LRRC26	9	137168758	137170051	0.365190713	suppress_segment_too_large
LRRC27	10	132332154	132379918	0.063874692	PASS
LRRC28	15	99251362	99390729	-0.697600509	PASS
LRRC29	16	67207139	67227048	-0.371357732	PASS
LRRC3	21	44455486	44462196	-0.064425456	suppress_segment_too_large
LRRC30	18	7231125	7232047	-0.052305056	suppress_segment_too_large
LRRC31	3	169839179	169869930	0.318278996	suppress_segment_too_large
LRRC32	11	76657524	76670747	0.062969153	PASS
LRRC34	3	169793428	169812986	0.318278996	suppress_segment_too_large
LRRC36	16	67326798	67385203	-0.371357732	PASS
LRRC37A	17	46292733	46337794	0.088516311	PASS
LRRC37A2	17	46511511	46555650	0.088516311	PASS

LRRC37A3	17	64854312	64919480	0.088516311	PASS
LRRC37B	17	32007872	32053504	0.060555011	PASS
LRRC38	1	13474977	13514048	-0.415253068	PASS
LRRC39	1	100148449	100178273	0.033763446	PASS
LRRC3B	3	26622806	26717537	0.311018244	suppress_segment_too_large
LRRC3C	17	39941474	39944747	0.060555011	PASS
LRRC4	7	128027071	128032107	-0.388946609	PASS
LRRC40	1	70144805	70205620	0.033763446	PASS
LRRC41	1	46261196	46303608	0.033763446	PASS
LRRC42	1	53946077	53968168	0.033763446	PASS
LRRC43	12	122167738	122203471	0.202141228	PASS
LRRC45	17	82023302	82031151	0.088516311	PASS
LRRC46	17	47831627	47837713	0.088516311	PASS
LRRC47	1	3778558	3796504	0.373964873	suppress_segment_too_large
LRRC49	15	70853239	71053657	-0.697600509	PASS
LRRC4B	19	50516892	50568045	-0.016761391	PASS
LRRC4C	11	40114203	41459773	-0.405444717	PASS
LRRC52	1	165544007	165563961	-0.027073548	PASS
LRRC53	1	74469878	74512614	0.033763446	PASS
LRRC55	11	57181747	57191717	-0.129266491	PASS
LRRC56	11	537527	554916	-0.333835828	PASS
LRRC57	15	42537820	42548802	-0.396255771	PASS
LRRC58	3	120324509	120349339	0.313454204	suppress_segment_too_large
LRRC59	17	50375059	50397553	0.088516311	PASS
LRRC6	8	132571953	132675617	0.113969953	PASS
LRRC61	7	150322639	150338150	-0.388946609	PASS
LRRC63	13	46211943	46277366	-0.390786075	PASS
LRRC66	4	51993702	52017620	-0.011382299	PASS
LRRC69	8	91101832	91219236	0.279445683	PASS
LRRC7	1	69568398	70151945	0.033763446	PASS
LRRC70	5	62578735	62581448	-0.293443042	PASS
LRRC71	1	156920650	156933094	0.103015788	PASS
LRRC72	7	16526880	16581568	-0.69513118	PASS
LRRC73	6	43506969	43510686	0.048820648	PASS
LRRC74A	14	76826372	76870302	-0.192197564	PASS
LRRC74B	22	21045960	21064168	-0.575930959	PASS
LRRC75A	17	16441577	16492153	0.024610076	PASS
LRRC75B	22	24585620	24593208	-0.575930959	PASS
LRRC8A	9	128882112	128918039	0.365190713	suppress_segment_too_large
LRRC8B	1	89524836	89597864	0.033763446	PASS
LRRC8C	1	89633072	89769903	0.033763446	PASS
LRRC8D	1	89821014	89936611	0.033763446	PASS
LRRC8E	19	7888505	7902021	0.079632875	PASS
LRRC9	14	59919713	60063559	0.060212819	PASS
LRRCC1	8	85107147	85146076	0.279445683	PASS
LRRD1	7	92141643	92179531	-0.262778904	PASS

LRRFIP1	2	237627576	237813682	0.025928102	PASS
LRRFIP2	3	37052656	37183689	-0.234617007	PASS
LRRIQ1	12	85036314	85264457	0.202141228	PASS
LRRIQ3	1	74026015	74198187	0.033763446	PASS
LRRIQ4	3	169821922	169837775	0.318278996	suppress_segment_too_large
LRRK1	15	100919215	101078254	-0.697600509	PASS
LRRK2	12	40196744	40369285	-0.202191512	PASS
LRRN1	3	3799437	3847703	0.311018244	suppress_segment_too_large
LRRN2	1	204617170	204685733	-0.256698369	PASS
LRRN3	7	111091006	111125454	-0.388946609	PASS
LRRN4	20	6040778	6054049	-0.168668583	PASS
LRRN4CL	11	62686402	62689899	0.182439925	suppress_segment_too_large
LRRTM1	2	80288351	80304749	0.066915641	PASS
LRRTM2	5	138868923	138875368	-0.293443042	PASS
LRRTM3	10	66926006	67099830	0.072405807	PASS
LRRTM4	2	76747719	77593319	-0.372959126	PASS
LRSAM1	9	127451486	127503501	0.365190713	suppress_segment_too_large
LRTM1	3	54918237	54967088	-0.234617007	PASS
LRTM2	12	1820267	1836752	-0.086128028	PASS
LRTOMT	11	72080331	72110782	0.062969153	PASS
LRWD1	7	102464929	102473168	-0.388946609	PASS
LSAMP	3	115802363	117139389	0.313454204	suppress_segment_too_large
LSG1	3	194640788	194672477	0.326834516	PASS
LSM1	8	38163321	38176730	-0.201142258	PASS
LSM10	1	36391238	36397892	0.033763446	PASS
LSM11	5	157743695	157760709	-0.150979337	PASS
LSM12	17	44034635	44067619	0.088516311	PASS
LSM14A	19	34172504	34229515	0.093487731	suppress_segment_too_large
LSM14B	20	62122461	62135378	-0.168668583	PASS
LSM2	6	31797396	31806984	0.048820648	PASS
LSM3	3	14178358	14201119	0.311018244	suppress_segment_too_large
LSM4	19	18306230	18323274	0.093487731	suppress_segment_too_large
LSM5	7	32485332	32495283	-0.69513118	PASS
LSM6	4	146175685	146200000	-0.011382299	PASS
LSM7	19	2321517	2328620	0.079632875	PASS
LSM8	7	118184032	118192824	-0.388946609	PASS
LSMEM1	7	112480853	112491062	-0.388946609	PASS
LSMEM2	3	50279027	50288114	-0.234617007	PASS
LSP1	11	1852970	1892267	-0.333835828	PASS
LSR	19	35248330	35267964	0.093487731	suppress_segment_too_large
LSS	21	46188141	46228824	-0.064425456	suppress_segment_too_large
LST1	6	31586124	31588909	0.048820648	PASS
LTA	6	31572054	31574324	0.048820648	PASS
LTA4H	12	96000828	96043520	0.202141228	PASS
LTB	6	31580525	31582522	0.048820648	PASS
LTB4R	14	24311450	24318036	0.060212819	PASS

LTB4R2	14	24305734	24312053	0.060212819	PASS
LTBP1	2	32946972	33399509	0.040498426	PASS
LTBP2	14	74498170	74612378	-0.192197564	PASS
LTBP3	11	65538805	65558930	0.182439925	suppress_segment_too_large
LTBP4	19	40592883	40629818	0.093487731	suppress_segment_too_large
LTBR	12	6375045	6391571	-0.086128028	PASS
LTC4S	5	179793980	179796647	-0.150979337	PASS
LTF	3	46435645	46485234	-0.234617007	PASS
LTK	15	41503638	41513887	-0.396255771	PASS
LTN1	21	28928144	28992956	0.12860881	suppress_segment_too_large
LTO1	11	69653076	69675416	0.182439925	suppress_segment_too_large
LTV1	6	143843344	143863812	-0.035448111	PASS
LUC7L	16	188969	229463	0.069936844	PASS
LUC7L2	7	139340359	139423457	-0.388946609	PASS
LUC7L3	17	50719544	50756213	0.088516311	PASS
LUM	12	91102629	91111831	0.202141228	PASS
LURAP1	1	46203334	46221261	0.033763446	PASS
LURAP1L	9	12775021	12822131	-0.310444659	PASS
LUZP1	1	23084023	23177808	0.033763446	PASS
LUZP2	11	24496970	25082631	-0.405444717	PASS
LUZP4	23	115289727	115307556	-0.012567603	PASS
LUZP6	7	135927274	135927450	-0.388946609	PASS
LVRN	5	115962454	116027619	-0.293443042	PASS
LXN	3	158645822	158672693	0.318278996	suppress_segment_too_large
LY6D	8	142784880	142786592	0.113969953	PASS
LY6E	8	143017982	143023832	0.113969953	PASS
LY6G5B	6	31670167	31673776	0.048820648	PASS
LY6G5C	6	31676684	31684040	0.048820648	PASS
LY6G6C	6	31718648	31721845	0.048820648	PASS
LY6G6D	6	31715356	31717804	0.048820648	PASS
LY6G6E	6	31711771	31714065	0.048820648	PASS
LY6G6F	6	31706885	31710595	0.048820648	PASS
LY6G6F-L	6	31706904	31717918	0.048820648	PASS
LY6H	8	143157914	143160711	0.307788765	PASS
LY6K	8	142700111	142705127	0.113969953	PASS
LY6L	8	143080457	143083001	0.307788765	PASS
LY75	2	159803355	159904749	0.039726562	PASS
LY75-CD3	2	159771851	159904710	0.039726562	PASS
LY86	6	6588108	6654983	0.048820648	PASS
LY9	1	160796074	160828261	-0.027073548	PASS
LY96	8	73991352	74029087	-0.201142258	PASS
LYAR	4	4267701	4290169	0.279089364	PASS
LYG1	2	99284238	99304742	0.048238121	PASS
LYG2	2	99242246	99255282	0.048238121	PASS
LYL1	19	13099033	13103161	0.093487731	suppress_segment_too_large
LYN	8	55879813	56014168	-0.201142258	PASS

LYNX1	8	142771197	142777810	0.113969953	PASS
LYNX1-SL	8	142764334	142778224	0.113969953	PASS
LYPD1	2	132644853	132671579	-0.475215623	PASS
LYPD2	8	142750150	142752534	0.113969953	PASS
LYPD3	19	43460787	43465660	0.14996833	PASS
LYPD4	19	41837074	41844697	0.093487731	suppress_segment_too_large
LYPD5	19	43795929	43827206	0.14996833	PASS
LYPD6	2	149329985	149474148	-0.475215623	PASS
LYPD6B	2	149038107	149215262	-0.475215623	PASS
LYPD8	1	248718649	248755739	-0.368111568	PASS
LYPLA1	8	54046367	54102017	-0.201142258	PASS
LYPLA2	1	23790970	23795539	0.033763446	PASS
LYPLAL1	1	219173844	219212865	-0.256698369	PASS
LYRM1	16	20899868	20925006	0.069936844	PASS
LYRM2	6	89568144	89638753	-0.368590549	PASS
LYRM4	6	5102593	5260939	0.048820648	PASS
LYRM7	5	131170810	131205426	-0.293443042	PASS
LYRM9	17	27878314	27894752	0.060555011	PASS
LYSMD1	1	151159748	151165948	0.103015788	PASS
LYSMD2	15	51723011	51751585	-0.396255771	PASS
LYSMD3	5	90515611	90529584	-0.293443042	PASS
LYSMD4	15	99715697	99733561	-0.697600509	PASS
LYST	1	235661041	235883640	-0.256698369	PASS
LYVE1	11	10556966	10611689	-0.405444717	PASS
LYZ	12	69348341	69354234	-0.202191512	PASS
LYZL1	10	29289061	29318328	0.039811807	PASS
LYZL2	10	30611779	30629762	0.039811807	PASS
LYZL4	3	42397078	42410600	-0.234617007	PASS
LYZL6	17	35934518	35943699	0.060555011	PASS
LZIC	1	9922113	9943407	0.373964873	suppress_segment_too_large
LZTFL1	3	45823316	45916042	-0.234617007	PASS
LZTR1	22	20982013	20999038	-0.575930959	PASS
LZTS1	8	20246165	20303963	-0.345962679	PASS
LZTS2	10	100996618	101007836	-0.367947924	PASS
LZTS3	20	3162617	3173592	-0.168668583	PASS
M1AP	2	74557883	74648338	-0.372959126	PASS
M6PR	12	8940363	8949955	0.362961408	suppress_segment_too_large
MAATS1	3	119703022	119767102	0.313454204	suppress_segment_too_large
MAB21L1	13	35474182	35477209	-0.390786075	PASS
MAB21L2	4	150581922	150584693	-0.011382299	PASS
MAB21L3	1	116111755	116135240	0.033763446	PASS
MAB21L4	2	240886048	240896889	0.025928102	PASS
MACC1	7	20134655	20217404	-0.69513118	PASS
MACF1	1	39081316	39487177	0.033763446	PASS
MACO1	1	25430858	25500209	0.033763446	PASS
MACROD1	11	63998558	64166106	0.182439925	suppress_segment_too_large

MACROD2	20	13995369	16053197	-0.168668583	PASS
MAD1L1	7	1815793	2233243	-0.69513118	PASS
MAD2L1	4	120055608	120067074	-0.011382299	PASS
MAD2L1B	6	43629540	43640952	0.048820648	PASS
MAD2L2	1	11674480	11691650	0.373964873	suppress_segment_too_large
MADCAM	19	489176	505342	0.079632875	PASS
MADD	11	47269161	47330031	0.117376172	PASS
MAEA	4	1289851	1340147	0.279089364	PASS
MAEL	1	166975582	167022214	-0.027073548	PASS
MAF	16	79585843	79600714	-0.371357732	PASS
MAF1	8	144104499	144107611	0.307788765	PASS
MAFA	8	143419182	143430406	0.307788765	PASS
MAFB	20	40685848	40689240	-0.168668583	PASS
MAFF	22	38200767	38216511	-0.575930959	PASS
MAFG	17	81918270	81927714	0.088516311	PASS
MAFK	7	1530714	1543043	-0.69513118	PASS
MAG	19	35292125	35313804	0.093487731	suppress_segment_too_large
MAGEA1	23	153179285	153183880	-0.012567603	PASS
MAGEA10	23	152133310	152138578	-0.012567603	PASS
MAGEA11	23	149688228	149717266	-0.012567603	PASS
MAGEA12	23	152733779	152737669	-0.012567603	PASS
MAGEA3	23	152698752	152702347	-0.012567603	PASS
MAGEA4	23	151912509	151925170	-0.012567603	PASS
MAGEA6	23	152766136	152769747	-0.012567603	PASS
MAGEA8	23	149881141	149885835	-0.012567603	PASS
MAGEA9	23	149781930	149787737	-0.012567603	PASS
MAGEB1	23	30243730	30252038	-0.012567603	PASS
MAGEB10	23	27807990	27823014	-0.012567603	PASS
MAGEB16	23	35798342	35803735	-0.012567603	PASS
MAGEB17	23	16167481	16171464	-0.012567603	PASS
MAGEB18	23	26138343	26140735	-0.012567603	PASS
MAGEB2	23	30215560	30220089	-0.012567603	PASS
MAGEB3	23	30230436	30237492	-0.012567603	PASS
MAGEB4	23	30242052	30244193	-0.012567603	PASS
MAGEB5	23	26216169	26218270	-0.012567603	PASS
MAGEB6	23	26192440	26195646	-0.012567603	PASS
MAGEB6E	23	26160601	26161824	-0.012567603	PASS
MAGEC1	23	141903894	141909388	-0.012567603	PASS
MAGEC2	23	142202345	142205290	-0.012567603	PASS
MAGEC3	23	141838316	141897832	-0.012567603	PASS
MAGED1	23	51803007	51902357	-0.012567603	PASS
MAGED2	23	54807599	54816012	-0.012567603	PASS
MAGEE1	23	76427724	76431353	-0.012567603	PASS
MAGEE2	23	75782988	75785236	-0.012567603	PASS
MAGEF1	3	184710367	184712002	0.318278996	suppress_segment_too_large
MAGEH1	23	55452105	55453566	-0.012567603	PASS

MAGEL2	15	23643549	23647867	-0.396255771	PASS
MAGI1	3	65353525	66038834	-0.234617007	PASS
MAGI2	7	78017057	79453574	-0.262778904	PASS
MAGI3	1	113390749	113685923	0.033763446	PASS
MAGIX	23	49162564	49168483	-0.012567603	PASS
MAGOH	1	53226892	53238610	0.033763446	PASS
MAGOHB	12	10604190	10613623	0.362961408	suppress_segment_too_large
MAGT1	23	77826364	77895593	-0.012567603	PASS
MAIP1	2	199955317	200008540	0.025928102	PASS
MAJIN	11	64937517	64972085	0.182439925	suppress_segment_too_large
MAK	6	10762723	10838555	0.048820648	PASS
MAK16	8	33484750	33501260	-0.345962679	PASS
MAL	2	95025677	95053996	-0.340781246	PASS
MAL2	8	119165034	119245673	0.279445683	PASS
MALL	2	110083870	110116566	-0.010901494	PASS
MALRD1	10	19048771	19790401	0.039811807	PASS
MALSU1	7	23298739	23311729	-0.69513118	PASS
MALT1	18	58671386	58754477	-0.376397843	PASS
MAMDC2	9	70043581	70226970	0.365190713	suppress_segment_too_large
MAMDC4	9	136850943	136860799	0.365190713	suppress_segment_too_large
MAML1	5	179732850	179777286	-0.150979337	PASS
MAML2	11	95976598	96343180	0.062969153	PASS
MAML3	4	139716753	140154184	-0.011382299	PASS
MAMLD1	23	150361422	150514178	-0.012567603	PASS
MAMSTR	19	48712742	48719721	0.14996833	PASS
MAN1A1	6	119177209	119349761	-0.368590549	PASS
MAN1A2	1	117367449	117528872	0.033763446	PASS
MAN1B1	9	137086927	137109187	0.365190713	suppress_segment_too_large
MAN1C1	1	25617468	25786207	0.033763446	PASS
MAN2A1	5	109689366	109869625	-0.293443042	PASS
MAN2A2	15	90902218	90922584	-0.697600509	PASS
MAN2B1	19	12646511	12666742	0.093487731	suppress_segment_too_large
MAN2B2	4	6575175	6623362	0.279089364	PASS
MAN2C1	15	75355207	75368630	-0.697600509	PASS
MANBA	4	102630770	102760994	-0.011382299	PASS
MANBAL	20	37289638	37317260	-0.168668583	PASS
MANEA	6	95577543	95609457	-0.368590549	PASS
MANEAL	1	37793802	37801137	0.033763446	PASS
MANF	3	51385047	51389397	-0.234617007	PASS
MANSC1	12	12326056	12350541	0.362961408	suppress_segment_too_large
MANSC4	12	27762738	27771276	0.362961408	suppress_segment_too_large
MAOA	23	43654907	43746824	-0.012567603	PASS
MAOB	23	43766611	43882447	-0.012567603	PASS
MAP10	1	232804892	232808407	-0.256698369	PASS
MAP1A	15	43510958	43531620	-0.396255771	PASS
MAP1B	5	72107234	72209570	-0.293443042	PASS

MAP1LC3	20	34546854	34560345	-0.168668583	PASS
MAP1LC3	16	87383995	87404779	-0.371357732	PASS
MAP1LC3	12	116548105	116576448	0.202141228	PASS
MAP1LC3	1	241995490	241999073	-0.648598641	PASS
MAP1S	19	17719242	17734516	0.093487731	suppress_segment_too_large
MAP2	2	209424058	209734118	0.025928102	PASS
MAP2K1	15	66386817	66492312	-0.697600509	PASS
MAP2K2	19	4090321	4124129	0.079632875	PASS
MAP2K3	17	21284672	21315240	0.060555011	PASS
MAP2K4	17	12020824	12143830	-0.139031004	PASS
MAP2K5	15	67542709	67807123	-0.697600509	PASS
MAP2K6	17	69414698	69553861	0.088516311	PASS
MAP2K7	19	7903843	7914478	0.079632875	PASS
MAP3K1	5	56815574	56896152	-0.293443042	PASS
MAP3K10	19	40191744	40215575	0.093487731	suppress_segment_too_large
MAP3K11	11	65597755	65615382	0.182439925	suppress_segment_too_large
MAP3K12	12	53479669	53500063	-0.202191512	PASS
MAP3K13	3	185282941	185489097	0.318278996	suppress_segment_too_large
MAP3K14	17	45263119	45317145	0.088516311	PASS
MAP3K15	23	19360056	19515261	-0.012567603	PASS
MAP3K19	2	134964491	135047468	-0.475215623	PASS
MAP3K2	2	127298730	127388465	-0.475215623	PASS
MAP3K20	2	173075435	173268010	0.039726562	PASS
MAP3K21	1	233327768	233385148	-0.256698369	PASS
MAP3K3	17	63622415	63696303	0.088516311	PASS
MAP3K4	6	160991727	161117385	-0.035448111	PASS
MAP3K5	6	136557047	136792518	-0.035448111	PASS
MAP3K6	1	27355184	27366892	0.033763446	PASS
MAP3K7	6	90513573	90587045	-0.368590549	PASS
MAP3K7C	21	29077471	29175889	0.12860881	suppress_segment_too_large
MAP3K8	10	30433937	30461833	0.039811807	PASS
MAP3K9	14	70722526	70809534	0.060212819	PASS
MAP4	3	47850690	48089272	-0.234617007	PASS
MAP4K1	19	38587641	38618882	0.093487731	suppress_segment_too_large
MAP4K2	11	64784914	64803241	0.182439925	suppress_segment_too_large
MAP4K3	2	39249266	39437312	0.040498426	PASS
MAP4K4	2	101696850	101894689	0.048238121	PASS
MAP4K5	14	50418501	50561126	0.060212819	PASS
MAP6	11	75586918	75669120	0.062969153	PASS
MAP6D1	3	183815876	183825594	0.318278996	suppress_segment_too_large
MAP7	6	136342281	136550819	-0.035448111	PASS
MAP7D1	1	36155579	36180849	0.033763446	PASS
MAP7D2	23	20006713	20116917	-0.012567603	PASS
MAP7D3	23	136213220	136256482	-0.012567603	PASS
MAP9	4	155342658	155376970	-0.011382299	PASS
MAPK1	22	21754500	21867680	-0.575930959	PASS

MAPK10	4	85990007	86594625	-0.011382299	PASS
MAPK11	22	50263713	50270767	-0.808211634	PASS
MAPK12	22	50245450	50261825	-0.808211634	PASS
MAPK13	6	36127809	36144524	0.048820648	PASS
MAPK14	6	36027677	36111236	0.048820648	PASS
MAPK15	8	143716259	143722458	0.307788765	PASS
MAPK1IP1	14	55051631	55070192	0.060212819	PASS
MAPK3	16	30114105	30123506	0.069936844	PASS
MAPK4	18	50560078	50731824	-0.376397843	PASS
MAPK6	15	51952106	52067372	-0.396255771	PASS
MAPK7	17	19377721	19383544	0.024610076	PASS
MAPK8	10	48306639	48439360	-0.404852538	PASS
MAPK8IP1	11	45885651	45906465	0.117376172	PASS
MAPK8IP2	22	50600685	50613981	-0.808211634	PASS
MAPK8IP3	16	1706183	1770317	0.069936844	PASS
MAPK9	5	180233143	180292099	-0.150979337	PASS
MAPKAP1	9	125437393	125707234	0.365190713	suppress_segment_too_large
MAPKAPK	1	206684944	206734283	-0.256698369	PASS
MAPKAPK	3	50611520	50649297	-0.234617007	PASS
MAPKAPK	12	111841978	111902238	0.202141228	PASS
MAPKBP1	15	41774434	41827855	-0.396255771	PASS
MAPRE1	20	32819893	32850405	-0.168668583	PASS
MAPRE2	18	34976928	35143470	-0.376397843	PASS
MAPRE3	2	26970612	27027196	0.040498426	PASS
MAPT	17	45894382	46028334	0.088516311	PASS
1-Mar	1	220786759	220819657	-0.256698369	PASS
2-Mar	1	220748225	220784815	-0.256698369	PASS
1-Mar	4	163524298	164384050	-0.011382299	PASS
10-Mar	17	62701314	62808344	0.088516311	PASS
11-Mar	5	16067139	16180762	0.055007813	PASS
2-Mar	19	8413270	8439017	0.079632875	PASS
3-Mar	5	126867714	127030808	-0.293443042	PASS
4-Mar	2	216257865	216372027	0.025928102	PASS
5-Mar	10	92291163	92353964	-0.39678585	PASS
6-Mar	5	10353703	10440388	0.055007813	PASS
7-Mar	2	159712457	159771027	0.039726562	PASS
8-Mar	10	45454585	45594906	-0.404852538	PASS
9-Mar	12	57755098	57760407	-0.202191512	PASS
MARCKS	6	113857362	113863471	-0.368590549	PASS
MARCKSL	1	32333832	32336379	0.033763446	PASS
MARCO	2	118942166	118994660	-0.475215623	PASS
MARF1	16	15594386	15643166	0.069936844	PASS
MARK1	1	220528183	220664461	-0.256698369	PASS
MARK2	11	63838928	63911019	0.182439925	suppress_segment_too_large
MARK3	14	103385392	103503831	-0.192197564	PASS
MARK4	19	45079288	45305283	0.14996833	PASS

MARS	12	57475445	57517569	-0.202191512	PASS
MARS2	2	197705369	197708387	0.025928102	PASS
MARVELD	10	97713173	97718152	-0.367947924	PASS
MARVELD	5	69415065	69444330	-0.293443042	PASS
MARVELD	16	71626161	71642114	-0.371357732	PASS
MAS1	6	159906690	159916530	-0.035448111	PASS
MAS1L	6	29486697	29487956	0.048820648	PASS
MASP1	3	187217285	187292022	0.318278996	suppress_segment_too_large
MASP2	1	11026523	11047233	0.373964873	suppress_segment_too_large
MAST1	19	12833951	12874951	0.093487731	suppress_segment_too_large
MAST2	1	45786987	46036124	0.033763446	PASS
MAST3	19	18097793	18151692	0.093487731	suppress_segment_too_large
MAST4	5	66596361	67169595	-0.293443042	PASS
MASTL	10	27154824	27186924	0.039811807	PASS
MAT1A	10	80271820	80289684	0.072405807	PASS
MAT2A	2	85539165	85545280	0.066915641	PASS
MAT2B	5	163503114	163519336	-0.150979337	PASS
MATK	19	3777970	3802129	0.079632875	PASS
MATN1	1	30711277	30723587	0.033763446	PASS
MATN2	8	97868840	98036716	0.279445683	PASS
MATN3	2	19992111	20012694	0.040498426	PASS
MATN4	20	45293445	45308529	-0.168668583	PASS
MATR3	5	139273752	139331677	-0.293443042	PASS
MAU2	19	19320681	19358755	0.093487731	suppress_segment_too_large
MAVS	20	3846799	3876123	-0.168668583	PASS
MAX	14	65006174	65102695	0.060212819	PASS
MAZ	16	29806106	29811164	0.069936844	PASS
MB	22	35606764	35637951	-0.575930959	PASS
MB21D2	3	192796815	192918161	-0.627320105	PASS
MBD1	18	50266882	50281774	-0.376397843	PASS
MBD2	18	54151601	54224788	-0.376397843	PASS
MBD3	19	1573596	1592801	0.079632875	PASS
MBD3L1	19	8832398	8843340	0.079632875	PASS
MBD3L2	19	7049321	7051735	0.079632875	PASS
MBD3L2B	19	7018969	7021450	0.079632875	PASS
MBD3L3	19	7056209	7058640	0.079632875	PASS
MBD3L4	19	7037748	7040179	0.079632875	PASS
MBD3L5	19	7030578	7033011	0.079632875	PASS
MBD4	3	129430944	129440179	0.313454204	suppress_segment_too_large
MBD5	2	148021011	148516971	-0.475215623	PASS
MBD6	12	57520710	57530148	-0.202191512	PASS
MBIP	14	36298558	36320676	0.060212819	PASS
MBL2	10	52765380	52771700	-0.404852538	PASS
MBLAC1	7	100126694	100128498	-0.262778904	PASS
MBLAC2	5	90458203	90474768	-0.293443042	PASS
MBNL1	3	152243828	152465780	0.318278996	suppress_segment_too_large

MBNL2	13	97221434	97394120	-0.390786075	PASS
MBNL3	23	132369317	132489968	-0.012567603	PASS
MBOAT1	6	20102145	20212399	0.048820648	PASS
MBOAT2	2	8852690	9003813	0.040498426	PASS
MBOAT4	8	30131824	30144686	-0.345962679	PASS
MBOAT7	19	54173412	54189882	0.206912349	PASS
MBP	18	76978827	77133683	-0.376397843	PASS
MBTD1	17	51177425	51260163	0.088516311	PASS
MBTPS1	16	84053761	84116906	-0.371357732	PASS
MBTPS2	23	21839636	21885424	-0.012567603	PASS
MC1R	16	89912119	89920977	-0.371357732	PASS
MC2R	18	13882044	13915707	-0.052305056	suppress_segment_too_large
MC3R	20	56248732	56249815	-0.168668583	PASS
MC4R	18	60371062	60372775	-0.376397843	PASS
MC5R	18	13824149	13827323	-0.052305056	suppress_segment_too_large
MCAM	11	119308529	119321521	-0.356188624	PASS
MCAT	22	43132206	43143394	-0.575930959	PASS
MCC	5	113022099	113488830	-0.293443042	PASS
MCCC1	3	183015218	183116075	0.318278996	suppress_segment_too_large
MCCC2	5	71587288	71658704	-0.293443042	PASS
MCCD1	6	31528717	31530232	0.048820648	PASS
MCEE	2	71109684	71130239	-0.372959126	PASS
MCEMP1	19	7676628	7679826	0.079632875	PASS
MCF2	23	139581770	139708227	-0.012567603	PASS
MCF2L	13	112894378	113099739	-0.390786075	PASS
MCF2L2	3	183178043	183428778	0.318278996	suppress_segment_too_large
MCFD2	2	46901870	46941855	0.040498426	PASS
MCHR1	22	40678750	40682814	-0.575930959	PASS
MCHR2	6	99919910	99994247	-0.368590549	PASS
MCIDAS	5	55219614	55227315	-0.293443042	PASS
MCL1	1	150574551	150579738	0.103015788	PASS
MCM10	10	13161554	13211104	0.039811807	PASS
MCM2	3	127598223	127622436	0.313454204	suppress_segment_too_large
MCM3	6	52264009	52284881	0.048820648	PASS
MCM3AP	21	46235126	46286297	-0.064425456	suppress_segment_too_large
MCM4	8	47960185	47978160	-0.201142258	PASS
MCM5	22	35400063	35425430	-0.575930959	PASS
MCM6	2	135839626	135876426	-0.475215623	PASS
MCM7	7	100092728	100101940	-0.262778904	PASS
MCM8	20	5950652	5998977	-0.168668583	PASS
MCM9	6	118813442	118935162	-0.368590549	PASS
MCMBP	10	119829404	119892556	0.063874692	PASS
MCMDC2	8	66870749	66922048	-0.201142258	PASS
MCOLN1	19	7522626	7534009	0.079632875	PASS
MCOLN2	1	84925583	84997113	0.033763446	PASS
MCOLN3	1	85018082	85048499	0.033763446	PASS

MCPH1	8	6406592	6648504	-1.076352548	PASS
MCRIP1	17	81822361	81833302	0.088516311	PASS
MCRIP2	16	636817	648474	0.069936844	PASS
MCRS1	12	49556544	49568153	-0.202191512	PASS
MCTP1	5	94703741	95284575	-0.293443042	PASS
MCTP2	15	94231538	94483952	-0.697600509	PASS
MCTS1	23	120594010	120621074	-0.012567603	PASS
MCTS2P	20	31547412	31548081	-0.168668583	PASS
MCU	10	72692131	72887694	0.072405807	PASS
MCUB	4	109560205	109688726	-0.011382299	PASS
MCUR1	6	13786557	13814568	0.048820648	PASS
MDC1	6	30699807	30717889	0.048820648	PASS
MDFI	6	41636882	41654246	0.048820648	PASS
MDFIC	7	114922154	115019202	-0.388946609	PASS
MDFIC2	3	70196894	70312726	-0.234617007	PASS
MDGA1	6	37630679	37699306	0.048820648	PASS
MDGA2	14	46840092	47674954	0.060212819	PASS
MDH1	2	63588609	63607197	-0.372959126	PASS
MDH1B	2	206737763	206765547	0.025928102	PASS
MDH2	7	76048051	76067508	-0.262778904	PASS
MDK	11	46380756	46383837	0.117376172	PASS
MDM1	12	68272443	68332381	-0.202191512	PASS
MDM2	12	68808176	68850686	-0.202191512	PASS
MDM4	1	204516379	204558120	-0.256698369	PASS
MDN1	6	89642499	89819723	-0.368590549	PASS
MDP1	14	24213937	24216070	0.060212819	PASS
ME1	6	83210389	83431071	-0.368590549	PASS
ME2	18	50878734	50954257	-0.376397843	PASS
ME3	11	86441108	86672636	0.062969153	PASS
MEA1	6	43011143	43016868	0.048820648	PASS
MEAF6	1	37492575	37514774	0.033763446	PASS
MECOM	3	169083499	169663618	0.318278996	suppress_segment_too_large
MECP2	23	154021573	154137103	-0.012567603	PASS
MECR	1	29192873	29230942	0.033763446	PASS
MED1	17	39404285	39451286	0.060555011	PASS
MED10	5	6371881	6378594	0.055007813	PASS
MED11	17	4731428	4733610	0.128406487	PASS
MED12	23	71118556	71142454	-0.012567603	PASS
MED12L	3	151085697	151437072	0.318278996	suppress_segment_too_large
MED13	17	61942605	62065282	0.088516311	PASS
MED13L	12	115953872	116277719	0.202141228	PASS
MED14	23	40648306	40735858	-0.012567603	PASS
MED15	22	20495913	20587632	-0.575930959	PASS
MED16	19	867630	893218	0.079632875	PASS
MED17	11	93784227	93814963	0.062969153	PASS
MED18	1	28329002	28335967	0.033763446	PASS

MED19	11	57703714	57712323	-0.129266491	PASS
MED20	6	41905354	41921139	0.048820648	PASS
MED21	12	27022546	27066343	0.362961408	suppress_segment_too_large
MED22	9	133338323	133348131	0.365190713	suppress_segment_too_large
MED23	6	131573966	131628229	-0.458570262	PASS
MED24	17	40019097	40061215	0.060555011	PASS
MED25	19	49818279	49840383	0.14996833	PASS
MED26	19	16574907	16629062	0.093487731	suppress_segment_too_large
MED27	9	131860107	132079908	0.365190713	suppress_segment_too_large
MED28	4	17614631	17634105	0.279089364	PASS
MED29	19	39391303	39400637	0.093487731	suppress_segment_too_large
MED30	8	117520713	117540262	0.279445683	PASS
MED31	17	6643315	6651634	0.128406487	PASS
MED4	13	48053323	48095131	-0.390786075	PASS
MED6	14	70581257	70600690	0.060212819	PASS
MED7	5	157137412	157159019	-0.293443042	PASS
MED8	1	43383917	43389808	0.033763446	PASS
MED9	17	17476986	17493226	0.024610076	PASS
MEDAG	13	30906191	30925572	-0.390786075	PASS
MEF2A	15	99565417	99716466	-0.697600509	PASS
MEF2B	19	19145568	19170289	0.093487731	suppress_segment_too_large
MEF2C	5	88717117	88904257	-0.293443042	PASS
MEF2D	1	156463727	156500828	0.103015788	PASS
MEFV	16	3242028	3256627	0.069936844	PASS
MEGF10	5	127290831	127465737	-0.293443042	PASS
MEGF11	15	65895079	66253747	-0.697600509	PASS
MEGF6	1	3489920	3611495	0.373964873	suppress_segment_too_large
MEGF8	19	42325609	42378769	0.093487731	suppress_segment_too_large
MEGF9	9	120600813	120714470	0.365190713	suppress_segment_too_large
MEI1	22	41699499	41799456	-0.575930959	PASS
MEI4	6	77650274	77927028	-0.368590549	PASS
MEIG1	10	14959439	14988050	0.039811807	PASS
MEIKIN	5	131806993	131945698	-0.293443042	PASS
MEIOB	16	1833987	1884294	0.069936844	PASS
MEIOC	17	44656404	44690308	0.088516311	PASS
MEIS1	2	66433452	66573869	-0.372959126	PASS
MEIS2	15	36889204	37101299	-0.396255771	PASS
MEIS3	19	47403124	47419523	0.14996833	PASS
MELK	9	36572862	36677683	-0.310444659	PASS
MELTF	3	196988621	197029816	0.326834516	PASS
MEMO1	2	31865060	32011230	0.040498426	PASS
MEN1	11	64803510	64811294	0.182439925	suppress_segment_too_large
MEOX1	17	43640388	43661954	0.088516311	PASS
MEOX2	7	15611212	15686812	-0.69513118	PASS
MEP1A	6	46793390	46839782	0.048820648	PASS
MEP1B	18	32185069	32220404	-0.376397843	PASS

MEPCE	7	100428790	100434126	-0.262778904	PASS
MEPE	4	87821411	87846817	-0.011382299	PASS
MERTK	2	111898479	112029561	-0.010901494	PASS
MESD	15	80946289	80989878	-0.697600509	PASS
MESP1	15	89748661	89751310	-0.697600509	PASS
MESP2	15	89760591	89778754	-0.697600509	PASS
MEST	7	130486171	130506465	-0.388946609	PASS
MET	7	116672390	116798386	-0.388946609	PASS
METAP1	4	98995620	99062813	-0.011382299	PASS
METAP1D	2	171999583	172082430	0.039726562	PASS
METAP2	12	95473520	95515839	0.202141228	PASS
METRN	16	715115	719655	0.069936844	PASS
METRNL	17	83079691	83095119	0.088516311	PASS
METTL1	12	57768471	57772793	-0.202191512	PASS
METTL11I	1	170146001	170167790	-0.027073548	PASS
METTL13	1	171781664	171814023	-0.027073548	PASS
METTL14	4	118685368	118715433	-0.011382299	PASS
METTL15	11	28108248	28527041	-0.405444717	PASS
METTL16	17	2405562	2511891	0.128406487	PASS
METTL17	14	20989770	20997035	0.060212819	PASS
METTL18	1	169792529	169794966	-0.027073548	PASS
METTL21A	2	207580631	207625928	0.025928102	PASS
METTL21C	13	102685744	102694504	-0.390786075	PASS
METTL22	16	8621683	8649654	0.069936844	PASS
METTL23	17	76726830	76733936	0.088516311	PASS
METTL24	6	110245928	110358272	-0.368590549	PASS
METTL25	12	82358497	82479236	0.202141228	PASS
METTL26	16	634427	636366	0.069936844	PASS
METTL27	7	73834590	73842535	-0.262778904	PASS
METTL2A	17	62423867	62450822	0.088516311	PASS
METTL2B	7	128476729	128506602	-0.388946609	PASS
METTL3	14	21498133	21511375	0.060212819	PASS
METTL4	18	2537525	2571509	-0.052305056	suppress_segment_too_large
METTL5	2	169810081	169824931	0.039726562	PASS
METTL6	3	15381275	15440566	0.311018244	suppress_segment_too_large
METTL7A	12	50923472	50932517	-0.202191512	PASS
METTL7B	12	55681546	55684611	-0.202191512	PASS
METTL8	2	171317405	171434802	0.039726562	PASS
METTL9	16	21597218	21657473	0.069936844	PASS
MEX3A	1	156072013	156081998	0.103015788	PASS
MEX3B	15	82041778	82046141	-0.697600509	PASS
MEX3C	18	51174550	51218304	-0.376397843	PASS
MEX3D	19	1554669	1568058	0.079632875	PASS
MFAP1	15	43804492	43824802	-0.396255771	PASS
MFAP2	1	16974502	16980835	0.033763446	PASS
MFAP3	5	154038906	154220478	-0.293443042	PASS

MFAP3L	4	169986597	170033031	-0.011382299	PASS
MFAP4	17	19383442	19387240	0.024610076	PASS
MFAP5	12	8637346	8662888	0.362961408	suppress_segment_too_large
MFF	2	227325151	227357836	0.025928102	PASS
MFGE8	15	88898683	88913411	-0.697600509	PASS
MFHAS1	8	8783354	8893645	-0.345962679	PASS
MFN1	3	179347692	179394931	0.318278996	suppress_segment_too_large
MFN2	1	11980181	12013514	0.373964873	suppress_segment_too_large
MFNG	22	37469063	37486401	-0.575930959	PASS
MFRP	11	119338942	119346673	-0.356188624	PASS
MFSD1	3	158732198	158829719	0.318278996	suppress_segment_too_large
MFSD10	4	2930561	2934859	0.279089364	PASS
MFSD11	17	76735865	76781449	0.088516311	PASS
MFSD12	19	3538261	3574290	0.079632875	PASS
MFSD13A	10	102461395	102477045	-0.367947924	PASS
MFSD14A	1	100038097	100083377	0.033763446	PASS
MFSD14B	9	94374551	94461042	0.365190713	suppress_segment_too_large
MFSD14C	9	96887373	97013708	0.365190713	suppress_segment_too_large
MFSD2A	1	39955112	39969968	0.033763446	PASS
MFSD2B	2	24010081	24063321	0.040498426	PASS
MFSD3	8	144509074	144511213	0.307788765	PASS
MFSD4A	1	205568885	205602918	-0.256698369	PASS
MFSD4B	6	111259348	111271167	-0.368590549	PASS
MFSD5	12	53251251	53254405	-0.202191512	PASS
MFSD6	2	190408355	190509205	0.025928102	PASS
MFSD6L	17	8797162	8799349	0.128406487	PASS
MFSD8	4	127917732	127966034	-0.011382299	PASS
MFSD9	2	102715840	102736888	0.048238121	PASS
MGA	15	41621224	41773081	-0.396255771	PASS
MGAM	7	141907813	142106747	-0.388946609	PASS
MGAM2	7	142111749	142222324	-0.388946609	PASS
MGARP	4	139266163	139280338	-0.011382299	PASS
MGAT1	5	180784782	180815652	-0.150979337	PASS
MGAT2	14	49620795	49623481	0.060212819	PASS
MGAT3	22	39457344	39492194	-0.575930959	PASS
MGAT4A	2	98619106	98731126	0.048238121	PASS
MGAT4B	5	179797597	179806952	-0.150979337	PASS
MGAT4C	12	85955666	86838904	0.202141228	PASS
MGAT4D	4	140442262	140498377	-0.011382299	PASS
MGAT5	2	134119983	134454621	-0.475215623	PASS
MGAT5B	17	76868456	76950393	0.088516311	PASS
MGLL	3	127689062	128052190	0.313454204	suppress_segment_too_large
MGME1	20	17968913	17991122	-0.168668583	PASS
MGMT	10	129467184	129768007	0.063874692	PASS
MGP	12	14881181	14885926	0.362961408	suppress_segment_too_large
MGRN1	16	4616493	4690974	0.069936844	PASS

MGST1	12	16347142	16609259	0.362961408	suppress_segment_too_large
MGST2	4	139665768	139740745	-0.011382299	PASS
MGST3	1	165630861	165661796	-0.027073548	PASS
MIA	19	40771648	40777490	0.093487731	suppress_segment_too_large
MIA-RAB4	19	40771648	40796943	0.093487731	suppress_segment_too_large
MIA2	14	39230231	39388513	0.060212819	PASS
MIA3	1	222618086	222668012	-0.256698369	PASS
MIB1	18	21704957	21870957	-0.376397843	PASS
MIB2	1	1615415	1630610	0.373964873	suppress_segment_too_large
MICA	6	31399784	31415315	0.048820648	PASS
MICAL1	6	109444062	109465968	-0.368590549	PASS
MICAL2	11	12094008	12359144	-0.405444717	PASS
MICAL3	22	17787649	18024559	-0.575930959	PASS
MICALL1	22	37905657	37942822	-0.575930959	PASS
MICALL2	7	1428465	1459502	-0.69513118	PASS
MICB	6	31494881	31511124	0.048820648	PASS
MICU1	10	72367327	72626191	0.072405807	PASS
MICU2	13	21492691	21604214	-0.390786075	PASS
MICU3	8	17027238	17122644	-0.345962679	PASS
MID1	23	10445310	10833654	-0.012567603	PASS
MID1IP1	23	38801432	38806537	-0.012567603	PASS
MID2	23	107825755	107927193	-0.012567603	PASS
MIDN	19	1248553	1259140	0.079632875	PASS
MIEF1	22	39499432	39518132	-0.575930959	PASS
MIEF2	17	18260534	18266552	0.024610076	PASS
MIEN1	17	39728496	39730787	0.060555011	PASS
MIER1	1	66924895	66988619	0.033763446	PASS
MIER2	19	301444	344815	0.079632875	PASS
MIER3	5	56919602	56971675	-0.293443042	PASS
MIF	22	23894004	23895227	-0.575930959	PASS
MIF4GD	17	75266228	75271227	0.088516311	PASS
MIGA1	1	77779624	77879539	0.033763446	PASS
MIGA2	9	129036621	129072082	0.365190713	suppress_segment_too_large
MIIP	1	12019466	12032045	0.373964873	suppress_segment_too_large
MILR1	17	64449037	64468643	0.088516311	PASS
MINDY1	1	150996086	151008375	0.103015788	PASS
MINDY2	15	58771192	58861900	-0.697600509	PASS
MINDY3	10	15778170	15860520	0.039811807	PASS
MINDY4	7	30771417	30892387	-0.69513118	PASS
MINDY4B	3	150871045	150905439	0.318278996	suppress_segment_too_large
MINK1	17	4833388	4898061	0.128406487	PASS
MINOS1	1	19484403	19629821	0.033763446	PASS
MINOS1-N	1	19597067	19656927	0.033763446	PASS
MINPP1	10	87504875	87553460	-1.64589449	suppress_large_homdel
MIOS	7	7566872	7608929	-0.69513118	PASS
MIOX	22	50486784	50490648	-0.808211634	PASS

MIP	12	56449502	56469166	-0.202191512	PASS
MIPEP	13	23730189	23889419	-0.390786075	PASS
MIPOL1	14	37197913	37552361	0.060212819	PASS
MIS12	17	5486285	5490814	0.128406487	PASS
MIS18A	21	32268219	32279069	0.12860881	suppress_segment_too_large
MIS18BP1	14	45203190	45253540	0.060212819	PASS
MISP	19	751126	764318	0.079632875	PASS
MISP3	19	14072536	14075062	0.093487731	suppress_segment_too_large
MITD1	2	99161427	99181058	0.048238121	PASS
MITF	3	69739435	69968337	-0.234617007	PASS
MIXL1	1	226223618	226227054	-0.256698369	PASS
MKI67	10	128096659	128126385	0.063874692	PASS
MKKS	20	10401009	10434222	-0.168668583	PASS
MKLN1	7	131110096	131496636	-0.388946609	PASS
MKNK1	1	46557408	46616843	0.033763446	PASS
MKNK2	19	2037465	2051244	0.079632875	PASS
MKRN1	7	140453040	140479569	-0.388946609	PASS
MKRN2	3	12557014	12583713	0.311018244	suppress_segment_too_large
MKRN2OS	3	12514934	12561059	0.311018244	suppress_segment_too_large
MKRN3	15	23565674	23630075	-0.396255771	PASS
MKS1	17	58205437	58219605	0.088516311	PASS
MKX	10	27672875	27746060	0.039811807	PASS
MLANA	9	5890802	5910606	-0.310444659	PASS
MLC1	22	50059391	50085902	-0.808211634	PASS
MLEC	12	120686869	120701864	0.202141228	PASS
MLF1	3	158571163	158607252	0.318278996	suppress_segment_too_large
MLF2	12	6747996	6767475	-0.086128028	PASS
MLH1	3	36993332	37050918	-0.234617007	PASS
MLH3	14	75013764	75051532	-0.192197564	PASS
MLIP	6	53929982	54266280	0.048820648	PASS
MLKL	16	74671855	74700960	-0.371357732	PASS
MLLT1	19	6210379	6279948	0.079632875	PASS
MLLT10	10	21524675	21743630	0.039811807	PASS
MLLT11	1	151057758	151068497	0.103015788	PASS
MLLT3	9	20341665	20622543	-0.310444659	PASS
MLLT6	17	38705542	38729803	0.060555011	PASS
MLN	6	33794673	33804011	0.048820648	PASS
MLNR	13	49220338	49222377	-0.390786075	PASS
MLPH	2	237485428	237555318	0.025928102	PASS
MLST8	16	2204248	2209416	0.069936844	PASS
MLX	17	42567068	42573239	0.088516311	PASS
MLXIP	12	122078722	122147347	0.202141228	PASS
MLXIPL	7	73593194	73624543	-0.262778904	PASS
MLYCD	16	83899126	83927026	-0.371357732	PASS
MMAA	4	145599042	145660035	-0.011382299	PASS
MMAB	12	109553737	109573874	0.202141228	PASS

MMACHC	1	45500053	45513382	0.033763446	PASS
MMADHC	2	149569634	149587816	-0.475215623	PASS
MMD	17	55392613	55421992	0.088516311	PASS
MMD2	7	4905989	4959213	-0.69513118	PASS
MME	3	155024124	155183729	0.318278996	suppress_segment_too_large
MMEL1	1	2590639	2632990	0.373964873	suppress_segment_too_large
MMGT1	23	135962070	135974063	-0.012567603	PASS
MMP1	11	102789920	102798160	0.062969153	PASS
MMP10	11	102770503	102780628	0.062969153	PASS
MMP11	22	23768226	23784316	-0.575930959	PASS
MMP12	11	102862736	102875034	0.062969153	PASS
MMP13	11	102942995	102955734	0.062969153	PASS
MMP14	14	22836557	22849027	0.060212819	PASS
MMP15	16	58025566	58046901	-0.371357732	PASS
MMP16	8	88032009	88328025	0.279445683	PASS
MMP17	12	131828393	131851783	0.270848837	PASS
MMP19	12	55835433	55842966	-0.202191512	PASS
MMP2	16	55389700	55506691	-0.371357732	PASS
MMP20	11	102576835	102625332	0.062969153	PASS
MMP21	10	125766453	125775821	0.063874692	PASS
MMP23B	1	1632095	1635263	0.373964873	suppress_segment_too_large
MMP24	20	35226654	35277000	-0.168668583	PASS
MMP24OS	20	35201745	35278131	-0.168668583	PASS
MMP25	16	3046681	3060726	0.069936844	PASS
MMP26	11	4704927	4992429	-0.957525224	PASS
MMP27	11	102691487	102705806	0.062969153	PASS
MMP28	17	35756249	35795707	0.060555011	PASS
MMP3	11	102835801	102843803	0.062969153	PASS
MMP7	11	102520508	102530753	0.062969153	PASS
MMP8	11	102711795	102727050	0.062969153	PASS
MMP9	20	46008908	46016561	-0.168668583	PASS
MMRN1	4	89879532	89954629	-0.011382299	PASS
MMRN2	10	86935540	86969481	-0.292453993	PASS
MMS19	10	97458324	97498794	-0.367947924	PASS
MMS22L	6	97142161	97283217	-0.368590549	PASS
MN1	22	27748277	27801498	-0.575930959	PASS
MNAT1	14	60734742	60969953	0.060212819	PASS
MND1	4	153344649	153415118	-0.011382299	PASS
MNDA	1	158831317	158849506	-0.467855874	PASS
MNS1	15	56421544	56465137	-0.697600509	PASS
MNT	17	2384060	2401118	0.128406487	PASS
MNX1	7	156994051	157010651	-0.411415677	PASS
MOAP1	14	93182196	93184928	-0.192197564	PASS
MOB1A	2	74152528	74178898	-0.372959126	PASS
MOB1B	4	70902326	71022449	-0.011382299	PASS
MOB2	11	1469457	1501247	-0.333835828	PASS

MOB3A	19	2071038	2096673	0.079632875	PASS
MOB3B	9	27325209	27529781	-0.310444659	PASS
MOB3C	1	46607715	46616891	0.033763446	PASS
MOB4	2	197515571	197553699	0.025928102	PASS
MOBP	3	39467198	39529479	-0.234617007	PASS
MOCOS	18	36187519	36272157	-0.376397843	PASS
MOCS1	6	39899578	39934551	0.048820648	PASS
MOCS2	5	53095679	53110063	-0.293443042	PASS
MOCS3	20	50958826	50963931	-0.168668583	PASS
MOG	6	29656981	29672372	0.048820648	PASS
MOGAT1	2	222671786	222709930	0.025928102	PASS
MOGAT2	11	75717819	75732958	0.062969153	PASS
MOGAT3	7	101195007	101201038	-0.388946609	PASS
MOGS	2	74461057	74465410	-0.372959126	PASS
MOK	14	102224500	102305200	-0.192197564	PASS
MON1A	3	49907160	49930173	-0.234617007	PASS
MON1B	16	77190835	77202405	-0.371357732	PASS
MON2	12	62466817	62600479	-0.202191512	PASS
MORC1	3	108958239	109118142	0.313454204	suppress_segment_too_large
MORC2	22	30925130	30968298	-0.575930959	PASS
MORC3	21	36320189	36386148	-0.064425456	suppress_segment_too_large
MORC4	23	106813871	107000244	-0.012567603	PASS
MORF4L1	15	78810487	78898133	-0.697600509	PASS
MORF4L2	23	103675496	103688158	-0.012567603	PASS
MORN1	1	2321253	2391707	0.373964873	suppress_segment_too_large
MORN2	2	38875962	38929072	0.040498426	PASS
MORN3	12	121648742	121672631	0.202141228	PASS
MORN4	10	97614553	97633500	-0.367947924	PASS
MORN5	9	122159908	122200088	0.365190713	suppress_segment_too_large
MOS	8	56112942	56113982	-0.201142258	PASS
MOSMO	16	22007638	22087534	0.069936844	PASS
MOSPD1	23	134887626	134915267	-0.012567603	PASS
MOSPD2	23	14873441	14922327	-0.012567603	PASS
MOSPD3	7	100612102	100615384	-0.262778904	PASS
MOV10	1	112673141	112700746	0.033763446	PASS
MOV10L1	22	50089879	50161690	-0.808211634	PASS
MOXD1	6	132296055	132401545	-0.458570262	PASS
MPC1	6	166364919	166383013	-0.035448111	PASS
MPC1L	23	40623566	40624136	-0.012567603	PASS
MPC2	1	167916729	167937040	-0.027073548	PASS
MPDU1	17	7583529	7592789	0.128406487	PASS
MPDZ	9	13105704	13279590	-0.310444659	PASS
MPEG1	11	59208510	59212951	-0.129266491	PASS
MPG	16	77007	85853	0.069936844	PASS
MPHOSPH	2	71130314	71150101	-0.372959126	PASS
MPHOSPH	16	82147798	82170226	-0.371357732	PASS

MPHOSPH	13	19633681	19673459	-0.390786075	PASS
MPHOSPH	12	123152320	123244014	0.202141228	PASS
MPI	15	74890005	74902219	-0.697600509	PASS
MPIG6B	6	31718594	31726714	0.048820648	PASS
MPL	1	43337849	43352772	0.033763446	PASS
MPLKIP	7	40126023	40134652	-0.69513118	PASS
MPND	19	4343527	4360086	0.079632875	PASS
MPO	17	58269856	58280935	0.088516311	PASS
MPP1	23	154778684	154821007	-0.012567603	PASS
MPP2	17	43875357	43909711	0.088516311	PASS
MPP3	17	43800799	43833170	0.088516311	PASS
MPP4	2	201644870	201698694	0.025928102	PASS
MPP5	14	67241109	67335819	0.060212819	PASS
MPP6	7	24573268	24694193	-0.69513118	PASS
MPP7	10	28050993	28334486	0.039811807	PASS
MPPE1	18	11882622	11909223	-0.052305056	suppress_segment_too_large
MPPED1	22	43411196	43507848	-0.575930959	PASS
MPPED2	11	30384493	30586872	-0.405444717	PASS
MPRIP	17	17042545	17217679	0.024610076	PASS
MPST	22	37019635	37029822	-0.575930959	PASS
MPV17	2	27309492	27325680	0.040498426	PASS
MPV17L	16	15395754	15413268	0.069936844	PASS
MPV17L2	19	18193182	18196948	0.093487731	suppress_segment_too_large
MPZ	1	161304735	161309972	-0.027073548	PASS
MPZL1	1	167721192	167791919	-0.027073548	PASS
MPZL2	11	118253403	118264536	-0.356188624	PASS
MPZL3	11	118226690	118252350	-0.356188624	PASS
MR1	1	181033425	181061938	-0.027073548	PASS
MRAP	21	32291813	32314784	0.12860881	suppress_segment_too_large
MRAP2	6	84033756	84090881	-0.368590549	PASS
MRAS	3	138347648	138405534	0.313454204	suppress_segment_too_large
MRC1	10	17809344	17911170	0.039811807	PASS
MRC2	17	62627401	62693597	0.088516311	PASS
MRE11	11	94415578	94493908	0.062969153	PASS
MREG	2	215942805	216034096	0.025928102	PASS
MRFAP1	4	6640091	6642745	0.279089364	PASS
MRFAP1L	4	6707701	6709880	0.279089364	PASS
MRGBP	20	62796453	62801738	-0.168668583	PASS
MRGPRD	11	68980021	68980986	0.182439925	suppress_segment_too_large
MRGPRE	11	3227698	3232386	-0.333835828	PASS
MRGPRF	11	69004395	69013409	0.182439925	suppress_segment_too_large
MRGPRG	11	3217944	3218813	-0.333835828	PASS
MRGPRX1	11	18933813	18939507	-0.405444717	PASS
MRGPRX2	11	19054455	19060681	-0.405444717	PASS
MRGPRX3	11	18120955	18138480	-0.405444717	PASS
MRGPRX4	11	18172837	18174280	-0.405444717	PASS

MRI1	19	13764532	13774282	0.093487731	suppress_segment_too_large
MRLN	10	59736692	59756041	0.072405807	PASS
MRM1	17	36601572	36608971	0.060555011	PASS
MRM2	7	2234231	2242198	-0.69513118	PASS
MRM3	17	782273	792509	0.128406487	PASS
MRNIP	5	179835133	179862173	-0.150979337	PASS
MRO	18	50795120	50825402	-0.376397843	PASS
MROH1	8	144148016	144261940	0.307788765	PASS
MROH2A	2	233775679	233833423	0.025928102	PASS
MROH2B	5	40998017	41071342	-0.293443042	PASS
MROH6	8	143566187	143572971	0.307788765	PASS
MROH7	1	54641754	54710266	0.033763446	PASS
MROH7-T′	1	54641786	54742308	0.033763446	PASS
MROH8	20	37101226	37179588	-0.168668583	PASS
MROH9	1	170935471	171064765	-0.027073548	PASS
MRPL1	4	77862520	77952790	-0.011382299	PASS
MRPL10	17	47823272	47831534	0.088516311	PASS
MRPL11	11	66435075	66466738	0.182439925	suppress_segment_too_large
MRPL12	17	81703357	81707526	0.088516311	PASS
MRPL13	8	120380761	120445402	0.279445683	PASS
MRPL14	6	44113454	44127457	0.048820648	PASS
MRPL15	8	54135210	54147901	-0.201142258	PASS
MRPL16	11	59806135	59810872	-0.129266491	PASS
MRPL17	11	6680782	6683401	-0.405444717	PASS
MRPL18	6	159789812	159798436	-0.035448111	PASS
MRPL19	2	75646783	75690851	-0.372959126	PASS
MRPL2	6	43054029	43059806	0.048820648	PASS
MRPL20	1	1401908	1407313	0.373964873	suppress_segment_too_large
MRPL21	11	68891276	68903835	0.182439925	suppress_segment_too_large
MRPL22	5	154941070	154969411	-0.293443042	PASS
MRPL23	11	1947278	1984522	-0.333835828	PASS
MRPL24	1	156737303	156741590	0.103015788	PASS
MRPL27	17	50367857	50373214	0.088516311	PASS
MRPL28	16	366969	371289	0.069936844	PASS
MRPL3	3	131462212	131502983	0.313454204	suppress_segment_too_large
MRPL30	2	99181079	99197626	0.048238121	PASS
MRPL32	7	42932200	42948958	-0.69513118	PASS
MRPL33	2	27771717	27988087	0.040498426	PASS
MRPL34	19	17292609	17306843	0.093487731	suppress_segment_too_large
MRPL35	2	86199355	86213794	0.066915641	PASS
MRPL36	5	1798386	1801366	0.055007813	PASS
MRPL37	1	54184041	54225464	0.033763446	PASS
MRPL38	17	75898643	75905413	0.088516311	PASS
MRPL39	21	25585656	25607517	0.12860881	suppress_segment_too_large
MRPL4	19	10251901	10260045	0.093487731	suppress_segment_too_large
MRPL40	22	19431902	19436075	-0.575930959	PASS

MRPL41	9	137551199	137552555	0.365190713	suppress_segment_too_large
MRPL42	12	93467488	93516213	0.202141228	PASS
MRPL43	10	100969458	100987515	-0.367947924	PASS
MRPL44	2	223957404	223967714	0.025928102	PASS
MRPL45	17	38297023	38323218	0.060555011	PASS
MRPL46	15	88459476	88467419	-0.697600509	PASS
MRPL47	3	179588285	179604654	0.318278996	suppress_segment_too_large
MRPL48	11	73787316	73865133	0.062969153	PASS
MRPL49	11	65122183	65127371	0.182439925	suppress_segment_too_large
MRPL50	9	101387633	101398614	0.365190713	suppress_segment_too_large
MRPL51	12	6491886	6493841	-0.086128028	PASS
MRPL52	14	22829879	22835037	0.060212819	PASS
MRPL53	2	74471958	74473322	-0.372959126	PASS
MRPL54	19	3762664	3768575	0.079632875	PASS
MRPL55	1	228106679	228109312	-0.256698369	PASS
MRPL57	13	21176645	21179084	-0.390786075	PASS
MRPL58	17	75012670	75021261	0.088516311	PASS
MRPL9	1	151759643	151763564	0.103015788	PASS
MRPS10	6	42206801	42217865	0.048820648	PASS
MRPS11	15	88467453	88480773	-0.697600509	PASS
MRPS12	19	38930548	38933162	0.093487731	suppress_segment_too_large
MRPS14	1	175010789	175023425	-0.027073548	PASS
MRPS15	1	36455718	36464437	0.033763446	PASS
MRPS16	10	73248843	73252693	0.072405807	PASS
MRPS17	7	55951819	55956501	-0.750061359	PASS
MRPS18A	6	43671303	43687791	0.048820648	PASS
MRPS18B	6	30617709	30626395	0.048820648	PASS
MRPS18C	4	83455932	83469735	-0.011382299	PASS
MRPS2	9	135499984	135504673	0.365190713	suppress_segment_too_large
MRPS21	1	150293720	150308979	0.103015788	PASS
MRPS22	3	139005806	139357223	0.313454204	suppress_segment_too_large
MRPS23	17	57834781	57850056	0.088516311	PASS
MRPS24	7	43866558	43869893	-0.69513118	PASS
MRPS25	3	15042460	15065335	0.311018244	suppress_segment_too_large
MRPS26	20	3045945	3048254	-0.168668583	PASS
MRPS27	5	72219409	72320646	-0.293443042	PASS
MRPS28	8	79918717	80030289	0.279445683	PASS
MRPS30	5	44808925	44820428	-0.293443042	PASS
MRPS31	13	40729135	40771173	-0.390786075	PASS
MRPS33	7	141002610	141015228	-0.388946609	PASS
MRPS34	16	1771890	1773155	0.069936844	PASS
MRPS35	12	27710773	27756295	0.362961408	suppress_segment_too_large
MRPS36	5	69217760	69230129	-0.293443042	PASS
MRPS5	2	95087207	95149434	0.048238121	PASS
MRPS6	21	34073224	34143034	0.12860881	suppress_segment_too_large
MRPS7	17	75261674	75266373	0.088516311	PASS

MRPS9	2	105037983	105099960	-0.532032081	PASS
MRRF	9	122264603	122331343	0.365190713	suppress_segment_too_large
MRS2	6	24402908	24426194	0.048820648	PASS
MRTFA	22	40410281	40636702	-0.575930959	PASS
MRTFB	16	14071321	14266773	0.069936844	PASS
MRTO4	1	19251539	19260128	0.033763446	PASS
MRVI1	11	10573091	10693988	-0.405444717	PASS
MS4A1	11	60455752	60470760	-0.129266491	PASS
MS4A10	11	60785348	60801305	-0.129266491	PASS
MS4A12	11	60492778	60507430	-0.129266491	PASS
MS4A13	11	60515413	60542721	-0.129266491	PASS
MS4A14	11	60378530	60417756	-0.129266491	PASS
MS4A15	11	60756953	60776732	-0.129266491	PASS
MS4A18	11	60729304	60744212	-0.129266491	PASS
MS4A2	11	60088261	60098466	-0.129266491	PASS
MS4A3	11	60056587	60071128	-0.129266491	PASS
MS4A4A	11	60185702	60317944	-0.129266491	PASS
MS4A4E	11	60201253	60243088	-0.129266491	PASS
MS4A5	11	60429589	60455214	-0.129266491	PASS
MS4A6A	11	60172014	60184666	-0.129266491	PASS
MS4A6E	11	60334831	60396596	-0.129266491	PASS
MS4A7	11	60378482	60395951	-0.129266491	PASS
MS4A8	11	60699574	60715811	-0.129266491	PASS
MSANTD1	4	3244369	3271738	0.279089364	PASS
MSANTD2	11	124766498	124800673	-0.419612865	PASS
MSANTD3	9	100427156	100451711	0.365190713	suppress_segment_too_large
MSANTD3	9	100442271	100577636	0.365190713	suppress_segment_too_large
MSANTD4	11	105995623	106022403	-0.356188624	PASS
MSC	8	71841549	71844468	-0.201142258	PASS
MSGN1	2	17816496	17817101	0.040498426	PASS
MSH2	2	47402969	47663146	0.040498426	PASS
MSH3	5	80654648	80876460	-0.293443042	PASS
MSH4	1	75796882	75913238	0.033763446	PASS
MSH5	6	31739948	31762834	0.048820648	PASS
MSH5-SAI	6	31740020	31764851	0.048820648	PASS
MSH6	2	47695530	47810101	0.040498426	PASS
MSI1	12	120341330	120369180	0.202141228	PASS
MSI2	17	57255851	57684685	0.088516311	PASS
MSL1	17	40122298	40136916	0.060555011	PASS
MSL2	3	136148922	136197241	0.313454204	suppress_segment_too_large
MSL3	23	11758159	11775772	-0.012567603	PASS
MSLN	16	760762	768865	0.069936844	PASS
MSLNL	16	769428	783370	0.069936844	PASS
MSMB	10	46033307	46046269	-0.404852538	PASS
MSMO1	4	165327623	165343160	-0.011382299	PASS
MSMP	9	35752990	35756613	-0.310444659	PASS

MSN	23	65588377	65741931	-0.012567603	PASS
MSR1	8	16107878	16567490	-0.345962679	PASS
MSRA	8	10054268	10428891	-0.345962679	PASS
MSRB1	16	1938210	1943326	0.069936844	PASS
MSRB2	10	23095506	23122013	0.039811807	PASS
MSRB3	12	65278643	65491430	-0.202191512	PASS
MSS51	10	73423579	73433561	0.072405807	PASS
MST1	3	49683947	49689501	-0.234617007	PASS
MST1R	3	49887002	49903873	-0.234617007	PASS
MSTN	2	190055697	190062729	0.025928102	PASS
MSTO1	1	155610205	155614967	0.103015788	PASS
MSX1	4	4859666	4863936	0.279089364	PASS
MSX2	5	174724533	174730893	-0.150979337	PASS
MT1A	16	56638666	56640087	-0.371357732	PASS
MT1B	16	56651899	56653204	-0.371357732	PASS
MT1E	16	56625475	56627112	-0.371357732	PASS
MT1F	16	56657694	56660698	-0.371357732	PASS
MT1G	16	56666731	56668065	-0.371357732	PASS
MT1H	16	56669814	56671129	-0.371357732	PASS
MT1HL1	1	237004103	237004418	-0.648598641	PASS
MT1M	16	56632233	56633986	-0.371357732	PASS
MT1X	16	56682424	56684196	-0.371357732	PASS
MT2A	16	56608199	56609497	-0.371357732	PASS
MT3	16	56589074	56591088	-0.371357732	PASS
MT4	16	56565049	56568957	-0.371357732	PASS
MTA1	14	105419820	105470729	-0.192197564	PASS
MTA2	11	62593214	62601840	0.182439925	suppress_segment_too_large
MTA3	2	42494569	42756947	0.040498426	PASS
MTAP	9	21802543	21937651	-0.310444659	PASS
MTBP	8	120445400	120542133	0.279445683	PASS
MTCH1	6	36968141	36986298	0.048820648	PASS
MTCH2	11	47617315	47642623	0.117376172	PASS
MTCL1	18	8705661	8832778	-0.052305056	suppress_segment_too_large
MTCP1	23	155061622	155147937	-0.012567603	PASS
MTDH	8	97644179	97728770	0.279445683	PASS
MTERF1	7	91692008	91880720	-0.262778904	PASS
MTERF2	12	106977291	106987166	0.202141228	PASS
MTERF3	8	96239398	96261610	0.279445683	PASS
MTERF4	2	241072169	241102332	0.025928102	PASS
MTF1	1	37809567	37859620	0.033763446	PASS
MTF2	1	93079235	93139081	0.033763446	PASS
MTFMT	15	65001512	65029639	-0.697600509	PASS
MTFP1	22	30425530	30429053	-0.575930959	PASS
MTFR1	8	65644734	65771261	-0.201142258	PASS
MTFR1L	1	25818640	25832942	0.033763446	PASS
MTFR2	6	136231024	136250335	-0.035448111	PASS

MTG1	10	133394094	133421307	0.063874692	PASS
MTG2	20	62183029	62203568	-0.168668583	PASS
MTHFD1	14	64388031	64463457	0.060212819	PASS
MTHFD1L	6	150865549	151101887	-0.035448111	PASS
MTHFD2	2	74198562	74217565	-0.372959126	PASS
MTHFD2L	4	74114174	74303099	-0.011382299	PASS
MTHFR	1	11785723	11806920	0.373964873	suppress_segment_too_large
MTHFS	15	79833585	79897379	-0.697600509	PASS
MTHFSD	16	86530176	86555235	-0.371357732	PASS
MTIF2	2	55236595	55269347	0.040498426	PASS
MTIF3	13	27435643	27450591	-0.390786075	PASS
MTLN	2	110211529	110245420	-0.010901494	PASS
MTM1	23	150568619	150673322	-0.012567603	PASS
MTMR1	23	150692971	150765103	-0.012567603	PASS
MTMR10	15	30938941	30991607	-0.396255771	PASS
MTMR11	1	149928651	149936869	0.103015788	PASS
MTMR12	5	32226994	32313009	0.055007813	PASS
MTMR14	3	9649433	9702393	0.311018244	suppress_segment_too_large
MTMR2	11	95832882	95925315	0.062969153	PASS
MTMR3	22	29883155	30030866	-0.575930959	PASS
MTMR4	17	58489529	58517905	0.088516311	PASS
MTMR6	13	25246201	25288009	-0.390786075	PASS
MTMR7	8	17298030	17413528	-0.345962679	PASS
MTMR8	23	64268081	64395431	-0.012567603	PASS
MTMR9	8	11284416	11328146	-0.345962679	PASS
MTNR1A	4	186533655	186555567	-0.462744716	PASS
MTNR1B	11	92969720	92985066	0.062969153	PASS
MTO1	6	73461578	73509236	-0.368590549	PASS
MTOR	1	11106535	11262507	0.373964873	suppress_segment_too_large
MTPAP	10	30309801	30374448	0.039811807	PASS
MTPN	7	135926761	135977353	-0.388946609	PASS
MTR	1	236795281	236903981	-0.256698369	PASS
MTREX	5	55307760	55425581	-0.293443042	PASS
MTRF1	13	41216369	41263577	-0.390786075	PASS
MTRF1L	6	152987362	153002685	-0.035448111	PASS
MTRR	5	7851186	7906025	0.055007813	PASS
MTSS1	8	124550790	124728429	0.279445683	PASS
MTSS1L	16	70661204	70686066	-0.371357732	PASS
MTTP	4	99563761	99623999	-0.011382299	PASS
MTURN	7	30134810	30162762	-0.69513118	PASS
MTUS1	8	17643795	17800917	-0.345962679	PASS
MTUS2	13	28820348	29505947	-0.390786075	PASS
MTX1	1	155208699	155213824	0.103015788	PASS
MTX2	2	176269395	176338025	0.039726562	PASS
MTX3	5	79976731	79991265	-0.293443042	PASS
MUC1	1	155185824	155192916	0.103015788	PASS

MUC12	7	100969623	101018949	-0.262778904	PASS
MUC13	3	124905442	124953819	0.313454204	suppress_segment_too_large
MUC15	11	26559033	26572233	-0.405444717	PASS
MUC16	19	8848844	8981342	0.079632875	PASS
MUC17	7	101020072	101058745	-0.388946609	PASS
MUC19	12	40393395	40570832	-0.202191512	PASS
MUC2	11	1074875	1110511	-0.333835828	PASS
MUC20	3	195720882	195741123	0.326834516	PASS
MUC21	6	30983718	30989903	0.048820648	PASS
MUC22	6	31010474	31035402	0.048820648	PASS
MUC3A	7	100949555	100968346	-0.262778904	PASS
MUC4	3	195746765	195812277	0.326834516	PASS
MUC5AC	11	1157953	1201138	-0.333835828	PASS
MUC5B	11	1223066	1262172	-0.333835828	PASS
MUC6	11	1012821	1036706	-0.333835828	PASS
MUC7	4	70430492	70482997	-0.011382299	PASS
MUCL1	12	54830519	54858393	-0.202191512	PASS
MUCL3	6	30934523	30954221	0.048820648	PASS
MUL1	1	20499448	20508161	0.033763446	PASS
MUM1	19	1354711	1378431	0.079632875	PASS
MUM1L1	23	106168305	106208956	-0.012567603	PASS
MUS81	11	65857126	65867653	0.182439925	suppress_segment_too_large
MUSK	9	110668771	110801620	0.365190713	suppress_segment_too_large
MUSTN1	3	52833114	52835219	-0.234617007	PASS
MUT	6	49430360	49463191	0.048820648	PASS
MUTYH	1	45329163	45340470	0.033763446	PASS
MVB12A	19	17405722	17433724	0.093487731	suppress_segment_too_large
MVB12B	9	126326849	126507041	0.365190713	suppress_segment_too_large
MVD	16	88651935	88663161	-0.371357732	PASS
MVK	12	109573255	109598117	0.202141228	PASS
MVP	16	29820394	29848039	0.069936844	PASS
MX1	21	41420304	41459214	-0.064425456	suppress_segment_too_large
MX2	21	41361943	41409390	-0.064425456	suppress_segment_too_large
MXD1	2	69897688	69942945	-0.372959126	PASS
MXD3	5	177301461	177312757	-0.150979337	PASS
MXD4	4	2247432	2262294	0.279089364	PASS
MXI1	10	110207605	110287365	0.063874692	PASS
MXRA5	23	3308565	3346641	-0.012567603	PASS
MXRA7	17	76672551	76711016	0.088516311	PASS
MXRA8	1	1352689	1361777	0.373964873	suppress_segment_too_large
MYADM	19	53866223	53876437	0.206912349	PASS
MYADML	17	81939645	81947233	0.088516311	PASS
MYB	6	135181315	135219173	-0.035448111	PASS
MYBBP1A	17	4538897	4555631	0.128406487	PASS
MYBL1	8	66562175	66614247	-0.201142258	PASS
MYBL2	20	43667019	43716496	-0.168668583	PASS

MYBPC1	12	101568353	101686018	0.202141228	PASS
MYBPC2	19	50432903	50466321	-0.016761391	PASS
MYBPC3	11	47331397	47352702	0.117376172	PASS
MYBPH	1	203167811	203175813	-0.256698369	PASS
MYBPHL	1	109292365	109307041	0.033763446	PASS
MYC	8	127735434	127741434	0.113969953	PASS
MYCBP	1	38862964	38874105	0.033763446	PASS
MYCBP2	13	77044655	77327050	-0.390786075	PASS
MYCBPAP	17	50508384	50531501	0.088516311	PASS
MYCL	1	39895426	39902256	0.033763446	PASS
MYCN	2	15940564	15947007	0.040498426	PASS
MYCT1	6	152697895	152724567	-0.035448111	PASS
MYD88	3	38138478	38143022	-0.234617007	PASS
MYDGF	19	4641374	4670370	0.079632875	PASS
MYEF2	15	48134631	48178517	-0.396255771	PASS
MYEOV	11	69294138	69367726	0.182439925	suppress_segment_too_large
MYF5	12	80716912	80719673	0.202141228	PASS
MYF6	12	80707498	80709474	0.202141228	PASS
MYH1	17	10492307	10518543	-0.139031004	PASS
MYH10	17	8474205	8630761	0.128406487	PASS
MYH11	16	15703172	15857033	0.069936844	PASS
MYH13	17	10300865	10373130	-0.139031004	PASS
MYH14	19	50188186	50310544	-0.016761391	PASS
MYH15	3	108380369	108529322	0.313454204	suppress_segment_too_large
MYH2	17	10521148	10549957	-0.139031004	PASS
MYH3	17	10628526	10657309	-0.139031004	PASS
MYH4	17	10443290	10469559	-0.139031004	PASS
MYH6	14	23381990	23408277	0.060212819	PASS
MYH7	14	23412738	23435718	0.060212819	PASS
MYH7B	20	34975403	35002437	-0.168668583	PASS
MYH8	17	10390322	10421950	-0.139031004	PASS
MYH9	22	36281277	36388067	-0.575930959	PASS
MYL1	2	210290150	210315190	0.025928102	PASS
MYL10	7	101613325	101629296	-0.388946609	PASS
MYL12A	18	3247481	3256236	-0.052305056	suppress_segment_too_large
MYL12B	18	3261479	3278431	-0.052305056	suppress_segment_too_large
MYL2	12	110910819	110920722	0.202141228	PASS
MYL3	3	46857872	46882169	-0.234617007	PASS
MYL4	17	47200446	47223679	0.088516311	PASS
MYL5	4	673580	682033	0.279089364	PASS
MYL6	12	56158161	56163496	-0.202191512	PASS
MYL6B	12	56152256	56159647	-0.202191512	PASS
MYL7	7	44138864	44141332	-0.69513118	PASS
MYL9	20	36541484	36551447	-0.168668583	PASS
MYLIP	6	16129125	16148248	0.048820648	PASS
MYLK	3	123610049	123884331	0.313454204	suppress_segment_too_large

MYLK2	20	31819308	31834689	-0.168668583	PASS
MYLK3	16	46703369	46790407	0.069936844	PASS
MYLK4	6	2663629	2750966	0.048820648	PASS
MYLPF	16	30370934	30377991	0.069936844	PASS
MYMK	9	133514586	133528612	0.365190713	suppress_segment_too_large
MYMX	6	44216939	44218236	0.048820648	PASS
MYNN	3	169772831	169789716	0.318278996	suppress_segment_too_large
MYO10	5	16661914	16936276	0.055007813	PASS
MYO15A	17	18108706	18179806	0.024610076	PASS
MYO15B	17	75588058	75626501	0.088516311	PASS
MYO16	13	108596152	109208007	-0.390786075	PASS
MYO18A	17	29071124	29180412	0.060555011	PASS
MYO18B	22	25742144	26031041	-0.575930959	PASS
MYO19	17	36495633	36543435	0.060555011	PASS
MYO1A	12	57028517	57051198	-0.202191512	PASS
MYO1B	2	191245185	191425389	0.025928102	PASS
MYO1C	17	1464186	1492812	0.128406487	PASS
MYO1D	17	32492522	32877177	0.060555011	PASS
MYO1E	15	59132434	59372900	-0.697600509	PASS
MYO1F	19	8520790	8577577	0.079632875	PASS
MYO1G	7	44962662	44979098	-0.69513118	PASS
MYO1H	12	109347903	109455523	0.202141228	PASS
MYO3A	10	25934071	26212536	0.039811807	PASS
MYO3B	2	170178145	170655171	0.039726562	PASS
MYO5A	15	52307283	52529050	-0.396255771	PASS
MYO5B	18	49822813	50195093	-0.376397843	PASS
MYO5C	15	52192322	52295798	-0.396255771	PASS
MYO6	6	75749192	75919537	-0.368590549	PASS
MYO7A	11	77128264	77215241	0.062969153	PASS
MYO7B	2	127535802	127637729	-0.475215623	PASS
MYO9A	15	71822289	72118577	-0.697600509	PASS
MYO9B	19	17075781	17214537	0.093487731	suppress_segment_too_large
MYOC	1	171635417	171652683	-0.027073548	PASS
MYOCD	17	12665890	12768949	-0.139031004	PASS
MYOCOS	1	171600621	171638799	-0.027073548	PASS
MYOD1	11	17719568	17722131	-0.405444717	PASS
MYOF	10	93306429	93482317	-0.39678585	PASS
MYOG	1	203083132	203086036	-0.256698369	PASS
MYOM1	18	3066807	3220108	-0.052305056	suppress_segment_too_large
MYOM2	8	2045040	2165552	-0.313874214	PASS
MYOM3	1	24056035	24112175	0.033763446	PASS
MYORG	9	34366670	34376853	-0.310444659	PASS
MYOT	5	137867791	137887851	-0.293443042	PASS
MYOZ1	10	73631654	73641757	0.072405807	PASS
MYOZ2	4	119135784	119187789	-0.011382299	PASS
MYOZ3	5	150660874	150679365	-0.293443042	PASS

MYPN	10	68106117	68212017	0.072405807	PASS
MYPOP	19	45890020	45902604	0.14996833	PASS
MYRF	11	61752642	61788518	0.182439925	suppress_segment_too_large
MYRFL	12	69825304	69959097	-0.202191512	PASS
MYRIP	3	39808914	40260321	-0.234617007	PASS
MYSM1	1	58654739	58700092	0.033763446	PASS
MYT1	20	64102394	64242253	-0.168668583	PASS
MYT1L	2	1789113	2331664	0.040498426	PASS
MYZAP	15	57591941	57685364	-0.697600509	PASS
MZB1	5	139387480	139390081	-0.293443042	PASS
MZF1	19	58561931	58573575	0.063781462	PASS
MZT1	13	72708357	72727687	-0.390786075	PASS
MZT2A	2	131464900	131492743	-0.475215623	PASS
MZT2B	2	130181737	130190729	-0.475215623	PASS
N4BP1	16	48538726	48620148	0.069936844	PASS
N4BP2	4	40056826	40158252	-0.011382299	PASS
N4BP2L1	13	32400723	32428311	-0.390786075	PASS
N4BP2L2	13	32432417	32538885	-0.390786075	PASS
N4BP3	5	178113443	178126087	-0.150979337	PASS
N6AMT1	21	28872191	28885371	0.12860881	suppress_segment_too_large
NAA10	23	153929242	153935223	-0.012567603	PASS
NAA11	4	79225694	79326050	-0.011382299	PASS
NAA15	4	139301455	139420033	-0.011382299	PASS
NAA16	13	41311205	41377030	-0.390786075	PASS
NAA20	20	20017116	20033655	-0.168668583	PASS
NAA25	12	112026689	112109022	0.202141228	PASS
NAA30	14	57390544	57415917	0.060212819	PASS
NAA35	9	85941146	86022298	0.365190713	suppress_segment_too_large
NAA38	17	7856685	7885238	0.128406487	PASS
NAA40	11	63938959	63957328	0.182439925	suppress_segment_too_large
NAA50	3	113716460	113746300	0.313454204	suppress_segment_too_large
NAA60	16	3443611	3486963	0.069936844	PASS
NAA80	3	50296402	50299421	-0.234617007	PASS
NAAA	4	75913657	75941051	-0.011382299	PASS
NAALAD2	11	90131515	90192894	0.062969153	PASS
NAALADL	11	65044818	65058549	0.182439925	suppress_segment_too_large
NAALADL	3	174438573	175810552	0.318278996	suppress_segment_too_large
NAB1	2	190646746	190692766	0.025928102	PASS
NAB2	12	57088894	57095476	-0.202191512	PASS
NABP1	2	191678068	191696659	0.025928102	PASS
NABP2	12	56222015	56229854	-0.202191512	PASS
NACA	12	56712428	56731628	-0.202191512	PASS
NACA2	17	61590426	61591202	0.088516311	PASS
NACAD	7	45080438	45088914	-0.69513118	PASS
NACC1	19	13118103	13141141	0.093487731	suppress_segment_too_large
NACC2	9	136006537	136095285	0.365190713	suppress_segment_too_large

NADK	1	1751232	1780457	0.373964873	suppress_segment_too_large
NADK2	5	36192592	36242279	0.055007813	PASS
NADSYN1	11	71453109	71524107	0.182439925	suppress_segment_too_large
NAE1	16	66802875	66873256	-0.371357732	PASS
NAF1	4	163110073	163166921	-0.011382299	PASS
NAGA	22	42058354	42070842	-0.575930959	PASS
NAGK	2	71064344	71079805	-0.372959126	PASS
NAGLU	17	42536172	42544449	0.088516311	PASS
NAGPA	16	5024844	5034141	0.069936844	PASS
NAGS	17	44004546	44009063	0.088516311	PASS
NAIF1	9	128061233	128068206	0.365190713	suppress_segment_too_large
NAIP	5	70968483	71025114	-0.293443042	PASS
NALCN	13	101053776	101416492	-0.390786075	PASS
NAMPT	7	106248285	106286326	-0.388946609	PASS
NANOG	12	7787794	7799141	-0.086128028	PASS
NANOGNI	12	7765216	7774121	-0.086128028	PASS
NANOGP8	15	35084193	35085110	-0.396255771	PASS
NANOS1	10	119029716	119033732	0.063874692	PASS
NANOS2	19	45913214	45914870	0.14996833	PASS
NANOS3	19	13862063	13880757	0.093487731	suppress_segment_too_large
NANP	20	25612935	25624175	-0.168668583	PASS
NANS	9	98056739	98083075	0.365190713	suppress_segment_too_large
NAP1L1	12	76036587	76085033	0.202141228	PASS
NAP1L2	23	73212299	73214848	-0.012567603	PASS
NAP1L3	23	93670930	93673568	-0.012567603	PASS
NAP1L4	11	2944431	2992377	-0.333835828	PASS
NAP1L5	4	88695915	88697829	-0.011382299	PASS
NAPA	19	47487637	47515240	0.14996833	PASS
NAPB	20	23374519	23421519	-0.168668583	PASS
NAPEPLD	7	103099776	103149560	-0.388946609	PASS
NAPG	18	10525905	10552761	-0.052305056	suppress_segment_too_large
NAPRT	8	143574785	143578649	0.307788765	PASS
NAPSA	19	50358477	50365830	-0.016761391	PASS
NARF	17	82458180	82490537	0.088516311	PASS
NARS	18	57600656	57622213	-0.376397843	PASS
NARS2	11	78435961	78574874	0.062969153	PASS
NASP	1	45583846	45618904	0.033763446	PASS
NAT1	8	18170477	18223689	-0.345962679	PASS
NAT10	11	34105602	34147670	-0.405444717	PASS
NAT14	19	55485004	55487568	0.121336758	PASS
NAT16	7	101170493	101180276	-0.388946609	PASS
NAT2	8	18391245	18401218	-0.345962679	PASS
NAT8	2	73640832	73642393	-0.372959126	PASS
NAT8L	4	2059512	2069089	0.279089364	PASS
NAT9	17	74770547	74776367	0.088516311	PASS
NATD1	17	21238870	21253410	0.024610076	PASS

NAV1	1	201622885	201826969	-0.256698369	PASS
NAV2	11	19350724	20121598	-0.405444717	PASS
NAV3	12	77324641	78213008	0.202141228	PASS
NAXD	13	110615460	110639993	-0.390786075	PASS
NAXE	1	156591762	156594299	0.103015788	PASS
NBAS	2	15166909	15561330	0.040498426	PASS
NBDY	23	56729241	56818380	-0.012567603	PASS
NBEA	13	34942287	35673022	-0.390786075	PASS
NBEAL1	2	203014879	203226378	0.025928102	PASS
NBEAL2	3	46979683	47009703	-0.234617007	PASS
NBL1	1	19596979	19658456	0.033763446	PASS
NBN	8	89933336	90003228	0.279445683	PASS
NBPF1	1	16562319	16613562	0.033763446	PASS
NBPF10	1	146064699	146144804	-0.157385092	PASS
NBPF11	1	148102046	148152322	-0.157385092	PASS
NBPF12	1	146938744	146996202	-0.157385092	PASS
NBPF14	1	148531385	148679751	-0.157385092	PASS
NBPF15	1	144421386	144461674	-0.157385092	PASS
NBPF19	1	149390623	149556361	-0.157385092	PASS
NBPF20	1	145289900	145405778	-0.157385092	PASS
NBPF26	1	120723923	120841481	-0.157385092	PASS
NBPF3	1	21440128	21485005	0.033763446	PASS
NBPF4	1	108223341	108244081	0.033763446	PASS
NBPF6	1	108450282	108471002	0.033763446	PASS
NBPF9	1	149054027	149103561	-0.157385092	PASS
NBR1	17	43170481	43211689	0.088516311	PASS
NCALD	8	101686543	102124907	0.279445683	PASS
NCAM1	11	112961247	113278436	-0.356188624	PASS
NCAM2	21	20998315	21543329	0.12860881	suppress_segment_too_large
NCAN	19	19211973	19252233	0.093487731	suppress_segment_too_large
NCAPD2	12	6493356	6531955	-0.086128028	PASS
NCAPD3	11	134150119	134225454	-0.419612865	PASS
NCAPG	4	17810902	17844862	0.279089364	PASS
NCAPG2	7	158631311	158704829	-0.411415677	PASS
NCAPH	2	96335787	96373845	0.048238121	PASS
NCAPH2	22	50508216	50523472	-0.808211634	PASS
NCBP1	9	97633626	97673748	0.365190713	suppress_segment_too_large
NCBP2	3	196935402	196942597	0.326834516	PASS
NCBP2-AS	3	196942623	196943540	0.326834516	PASS
NCBP2L	23	107774899	107795829	-0.012567603	PASS
NCBP3	17	3802165	3846251	0.128406487	PASS
NCCRP1	19	39196961	39201884	0.093487731	suppress_segment_too_large
NCDN	1	35557473	35567274	0.033763446	PASS
NCEH1	3	172630249	172711218	0.318278996	suppress_segment_too_large
NCF1	7	74773962	74789315	-0.262778904	PASS
NCF2	1	183555563	183590876	-0.027073548	PASS

NCF4	22	36860988	36878015	-0.575930959	PASS
NCK1	3	136862208	136949823	0.313454204	suppress_segment_too_large
NCK2	2	105744897	105894274	-0.532032081	PASS
NCKAP1	2	182909115	183038858	-0.169541924	PASS
NCKAP1L	12	54497711	54548238	-0.202191512	PASS
NCKAP5	2	132671799	133568463	-0.475215623	PASS
NCKAP5L	12	49791146	49828750	-0.202191512	PASS
NCKIPSD	3	48673844	48686364	-0.234617007	PASS
NCL	2	231453531	231483641	0.025928102	PASS
NCLN	19	3185563	3209575	0.079632875	PASS
NCMAP	1	24556111	24609328	0.033763446	PASS
NCOA1	2	24491914	24770702	0.040498426	PASS
NCOA2	8	70109762	70403805	-0.201142258	PASS
NCOA3	20	47501902	47656877	-0.168668583	PASS
NCOA4	10	46005088	46030714	-0.404852538	PASS
NCOA5	20	46060985	46089952	-0.168668583	PASS
NCOA6	20	34689097	34825649	-0.168668583	PASS
NCOA7	6	125781161	125932030	-0.458570262	PASS
NCOR1	17	16029157	16218185	0.024610076	PASS
NCOR2	12	124324415	124567589	0.202141228	PASS
NCR1	19	54906150	54916140	-0.146906334	PASS
NCR2	6	41335655	41350887	0.048820648	PASS
NCR3	6	31588895	31592985	0.048820648	PASS
NCR3LG1	11	17351726	17377341	-0.405444717	PASS
NCS1	9	130172578	130237304	0.365190713	suppress_segment_too_large
NCSTN	1	160343272	160358952	-0.027073548	PASS
NDC1	1	53765460	53838860	0.033763446	PASS
NDC80	18	2571511	2616635	-0.052305056	suppress_segment_too_large
NDE1	16	15643267	15726353	0.069936844	PASS
NDEL1	17	8413131	8490411	0.128406487	PASS
NDFIP1	5	142108505	142154443	-0.293443042	PASS
NDFIP2	13	79481124	79556075	-0.390786075	PASS
NDN	15	23685400	23687330	-0.396255771	PASS
NDNF	4	121035613	121073021	-0.011382299	PASS
NDOR1	9	137205685	137217009	0.365190713	suppress_segment_too_large
NDP	23	43948776	43973504	-0.012567603	PASS
NDRG1	8	133237171	133302022	0.113969953	PASS
NDRG2	14	21016763	21070872	0.060212819	PASS
NDRG3	20	36651766	36746078	-0.168668583	PASS
NDRG4	16	58462846	58513628	-0.371357732	PASS
NDST1	5	150485818	150558211	-0.293443042	PASS
NDST2	10	73801911	73811798	0.072405807	PASS
NDST3	4	118033618	118258648	-0.011382299	PASS
NDST4	4	114827763	115113876	-0.011382299	PASS
NDUFA1	23	119871487	119876662	-0.012567603	PASS
NDUFA10	2	239892450	240025402	0.025928102	PASS

NDUFA11	19	5891276	5904006	0.079632875	PASS
NDUFA12	12	94897055	95003770	0.202141228	PASS
NDUFA13	19	19515736	19529054	0.093487731	suppress_segment_too_large
NDUFA2	5	140638740	140647785	-0.293443042	PASS
NDUFA3	19	54102728	54109257	0.206912349	PASS
NDUFA4	7	10931951	10940256	-0.69513118	PASS
NDUFA4L	12	57234903	57240715	-0.202191512	PASS
NDUFA5	7	123536997	123558255	-0.388946609	PASS
NDUFA6	22	42085525	42090955	-0.575930959	PASS
NDUFA7	19	8308768	8321396	0.079632875	PASS
NDUFA8	9	122144058	122159819	0.365190713	suppress_segment_too_large
NDUFA9	12	4649095	4694317	-0.086128028	PASS
NDUFAB1	16	23581002	23596356	0.069936844	PASS
NDUFAF1	15	41387349	41402519	-0.396255771	PASS
NDUFAF2	5	60945129	61153037	-0.293443042	PASS
NDUFAF3	3	49020459	49023495	-0.234617007	PASS
NDUFAF4	6	96889313	96897881	-0.368590549	PASS
NDUFAF5	20	13784950	13821582	-0.168668583	PASS
NDUFAF6	8	94895767	95116455	0.279445683	PASS
NDUFAF7	2	37231631	37253403	0.040498426	PASS
NDUFAF8	17	81239239	81241281	0.088516311	PASS
NDUFB1	14	92116122	92121917	-0.192197564	PASS
NDUFB10	16	1959508	1961975	0.069936844	PASS
NDUFB11	23	47142216	47145504	-0.012567603	PASS
NDUFB2	7	140690777	140722790	-0.388946609	PASS
NDUFB3	2	201071433	201085750	0.025928102	PASS
NDUFB4	3	120596309	120602500	0.313454204	suppress_segment_too_large
NDUFB5	3	179604690	179627647	0.318278996	suppress_segment_too_large
NDUFB6	9	32552999	32573184	-0.310444659	PASS
NDUFB7	19	14566078	14572062	0.093487731	suppress_segment_too_large
NDUFB8	10	100523740	100530000	-0.367947924	PASS
NDUFB9	8	124539101	124580648	0.279445683	PASS
NDUFC1	4	139266880	139302551	-0.011382299	PASS
NDUFC2	11	78068304	78080219	0.062969153	PASS
NDUFC2-K	11	78016971	78079865	0.062969153	PASS
NDUFS1	2	206114817	206159603	0.025928102	PASS
NDUFS2	1	161197104	161214395	-0.027073548	PASS
NDUFS3	11	47565336	47584562	0.117376172	PASS
NDUFS4	5	53560633	53683340	-0.293443042	PASS
NDUFS5	1	39026318	39034636	0.033763446	PASS
NDUFS6	5	1801400	1816605	0.055007813	PASS
NDUFS7	19	1383527	1395589	0.079632875	PASS
NDUFS8	11	68030617	68036644	0.182439925	suppress_segment_too_large
NDUFV1	11	67605653	67612554	0.182439925	suppress_segment_too_large
NDUFV2	18	9102630	9134345	-0.052305056	suppress_segment_too_large
NDUFV3	21	42879644	42913304	-0.064425456	suppress_segment_too_large

NEB	2	151485336	151734487	-0.475215623	PASS
NEBL	10	20779973	21174187	0.039811807	PASS
NECAB1	8	90791550	90959408	0.279445683	PASS
NECAB2	16	83968632	84002776	-0.371357732	PASS
NECAB3	20	33657087	33674463	-0.168668583	PASS
NECAP1	12	8076939	8097859	-0.086128028	PASS
NECAP2	1	16440672	16460078	0.033763446	PASS
NECTIN1	11	119623408	119729084	-0.356188624	PASS
NECTIN2	19	44846175	44889228	0.14996833	PASS
NECTIN3	3	111070071	111275563	0.313454204	suppress_segment_too_large
NECTIN4	1	161070995	161089599	-0.027073548	PASS
NEDD1	12	96907223	96953777	0.202141228	PASS
NEDD4	15	55826922	55993746	-0.697600509	PASS
NEDD4L	18	58044367	58401540	-0.376397843	PASS
NEDD8	14	24216852	24232454	0.060212819	PASS
NEDD8-M	14	24213955	24232352	0.060212819	PASS
NEDD9	6	11183298	11382348	0.048820648	PASS
NEFH	22	29480230	29491390	-0.575930959	PASS
NEFL	8	24950955	24957110	-0.345962679	PASS
NEFM	8	24913012	24919098	-0.345962679	PASS
NEGR1	1	71395940	72282734	0.033763446	PASS
NEIL1	15	75346955	75357114	-0.697600509	PASS
NEIL2	8	11769639	11787346	-0.345962679	PASS
NEIL3	4	177309836	177362943	-0.011382299	PASS
NEK1	4	169392857	169612629	-0.011382299	PASS
NEK10	3	27110085	27369460	0.311018244	suppress_segment_too_large
NEK11	3	131026850	131350465	0.313454204	suppress_segment_too_large
NEK2	1	211658657	211675630	-0.256698369	PASS
NEK3	13	52132639	52159861	-0.390786075	PASS
NEK4	3	52708449	52770949	-0.234617007	PASS
NEK5	13	52033611	52129078	-0.390786075	PASS
NEK6	9	124257606	124353307	0.365190713	suppress_segment_too_large
NEK7	1	198156963	198322420	-0.027073548	PASS
NEK8	17	28725897	28743455	0.060555011	PASS
NEK9	14	75079353	75127344	-0.192197564	PASS
NELFA	4	1982714	2041903	0.279089364	PASS
NELFB	9	137255173	137273546	0.365190713	suppress_segment_too_large
NELFCD	20	58981208	58995133	-0.168668583	PASS
NELFE	6	31952087	31959110	0.048820648	PASS
NELL1	11	20669551	21575681	-0.405444717	PASS
NELL2	12	44508275	44921848	-0.202191512	PASS
NEMF	14	49782083	49853203	0.060212819	PASS
NEMP1	12	57055643	57088063	-0.202191512	PASS
NEMP2	2	190504342	190534722	0.025928102	PASS
NENF	1	212432887	212446379	-0.256698369	PASS
NEO1	15	73051710	73305206	-0.697600509	PASS

NEPRO	3	113002440	113019861	0.313454204	suppress_segment_too_large
NES	1	156668763	156677397	0.103015788	PASS
NET1	10	5412551	5458463	0.039811807	PASS
NETO1	18	72742314	72868146	-0.376397843	PASS
NETO2	16	47077703	47143997	0.069936844	PASS
NEU1	6	31857659	31862906	0.048820648	PASS
NEU2	2	233032672	233035057	0.025928102	PASS
NEU3	11	74988134	75018893	0.062969153	PASS
NEURL1	10	103493979	103592552	-0.367947924	PASS
NEURL1B	5	172641266	172691540	-0.150979337	PASS
NEURL2	20	45888625	45891287	-0.168668583	PASS
NEURL3	2	96497643	96508109	0.048238121	PASS
NEURL4	17	7315628	7329393	0.128406487	PASS
NEUROD1	2	181673088	181680876	0.039726562	PASS
NEUROD2	17	39603536	39609777	0.060555011	PASS
NEUROD4	12	55019945	55030014	-0.202191512	PASS
NEUROD6	7	31337461	31340894	-0.69513118	PASS
NEUROG1	5	135534282	135535949	-0.293443042	PASS
NEUROG2	4	112513516	112516172	-0.011382299	PASS
NEUROG3	10	69571698	69573238	0.072405807	PASS
NEXMIF	23	74732856	74925485	-0.012567603	PASS
NEXN	1	77888513	77943895	0.033763446	PASS
NF1	17	31094927	31382116	0.060555011	PASS
NF2	22	29603556	29698598	-0.575930959	PASS
NFAM1	22	42380410	42432395	-0.575930959	PASS
NFASC	1	204828651	205022822	-0.256698369	PASS
NFAT5	16	69565094	69704666	-0.371357732	PASS
NFATC1	18	79395856	79529325	-0.376397843	PASS
NFATC2	20	51386957	51562831	-0.168668583	PASS
NFATC2IP	16	28950807	28967097	0.069936844	PASS
NFATC3	16	68084751	68229259	-0.371357732	PASS
NFATC4	14	24365673	24379604	0.060212819	PASS
NFE2	12	54292111	54301121	-0.202191512	PASS
NFE2L1	17	48048329	48061487	0.088516311	PASS
NFE2L2	2	177227595	177392697	0.039726562	PASS
NFE2L3	7	26152240	26187125	-0.69513118	PASS
NFE4	7	102973437	102988856	-0.388946609	PASS
NFIA	1	60865259	61462793	0.033763446	PASS
NFIB	9	14081843	14398983	-0.310444659	PASS
NFIC	19	3314403	3469217	0.079632875	PASS
NFIL3	9	91409045	91423862	0.365190713	suppress_segment_too_large
NFIX	19	12995608	13098796	0.093487731	suppress_segment_too_large
NFKB1	4	102501329	102617302	-0.011382299	PASS
NFKB2	10	102394110	102402529	-0.367947924	PASS
NFKBIA	14	35401511	35404749	0.060212819	PASS
NFKBIB	19	38899700	38908893	0.093487731	suppress_segment_too_large

NFKBID	19	35887653	35902303	0.093487731	suppress_segment_too_large
NFKBIE	6	44258166	44265788	0.048820648	PASS
NFKBIL1	6	31546870	31558829	0.048820648	PASS
NFKBIZ	3	101827991	101861022	0.313454204	suppress_segment_too_large
NFRKB	11	129863636	129895590	-0.419612865	PASS
NFS1	20	35668055	35699359	-0.168668583	PASS
NFU1	2	69395750	69437628	-0.372959126	PASS
NFX1	9	33290511	33371157	-0.310444659	PASS
NFXL1	4	47847233	47914667	-0.011382299	PASS
NFYA	6	41072945	41099976	0.048820648	PASS
NFYB	12	104117077	104138289	0.202141228	PASS
NFYC	1	40691648	40771603	0.033763446	PASS
NGB	14	77265483	77271312	-0.192197564	PASS
NGDN	14	23469688	23509862	0.060212819	PASS
NGEF	2	232878686	233013272	0.025928102	PASS
NGF	1	115285918	115338236	0.033763446	PASS
NGFR	17	49495293	49515017	0.088516311	PASS
NGLY1	3	25718944	25790039	0.311018244	suppress_segment_too_large
NGRN	15	90265659	90278141	-0.697600509	PASS
NHEJ1	2	219075317	219160865	0.025928102	PASS
NHLH1	1	160367067	160372848	-0.027073548	PASS
NHLH2	1	115836377	115843917	0.033763446	PASS
NHLRC1	6	18120440	18122687	0.048820648	PASS
NHLRC2	10	113854661	113917194	0.063874692	PASS
NHLRC3	13	39038306	39050109	-0.390786075	PASS
NHLRC4	16	566996	569495	0.069936844	PASS
NHP2	5	178149460	178153967	-0.150979337	PASS
NHS	23	17375420	17735994	-0.012567603	PASS
NHSL1	6	138422043	138692571	-0.035448111	PASS
NHSL2	23	71910818	72161750	-0.012567603	PASS
NICN1	3	49422946	49429326	-0.234617007	PASS
NID1	1	235975830	236065162	-0.256698369	PASS
NID2	14	52004803	52069228	0.060212819	PASS
NIF3L1	2	200889327	200903930	0.025928102	PASS
NIFK	2	121726945	121736923	-0.475215623	PASS
NIM1K	5	43192071	43280850	-0.293443042	PASS
NIN	14	50719763	50831121	0.060212819	PASS
NINJ1	9	93121489	93134288	0.365190713	suppress_segment_too_large
NINJ2	12	564296	663779	-0.086128028	PASS
NINL	20	25452705	25585517	-0.168668583	PASS
NIP7	16	69337996	69343111	-0.371357732	PASS
NIPA1	15	22773063	22829791	-0.396255771	PASS
NIPA2	15	22838641	22868384	-0.396255771	PASS
NIPAL1	4	47914142	48040173	-0.011382299	PASS
NIPAL2	8	98189833	98294393	0.279445683	PASS
NIPAL3	1	24415794	24472976	0.033763446	PASS

NIPAL4	5	157460019	157474717	-0.150979337	PASS
NIPBL	5	36876759	37066413	0.055007813	PASS
NIPSNAP1	22	29554808	29581337	-0.575930959	PASS
NIPSNAP2	7	55951793	56000181	-0.750061359	PASS
NIPSNAP3	9	104747688	104760122	0.365190713	suppress_segment_too_large
NIPSNAP3	9	104764157	104777457	0.365190713	suppress_segment_too_large
NISCH	3	52455118	52493071	-0.234617007	PASS
NIT1	1	161118086	161125445	-0.027073548	PASS
NIT2	3	100334701	100361635	0.313454204	suppress_segment_too_large
NKAIN1	1	31179745	31239554	0.033763446	PASS
NKAIN2	6	123804141	124825657	-1.97829255	PASS
NKAIN3	8	62248591	62999652	-0.201142258	PASS
NKAIN4	20	63240784	63272694	-0.168668583	PASS
NKAP	23	119920672	119943772	-0.012567603	PASS
NKAPD1	11	112074086	112085150	-0.356188624	PASS
NKAPL	6	28259320	28260958	0.048820648	PASS
NKD1	16	50548330	50649249	0.069936844	PASS
NKD2	5	1008829	1038943	0.055007813	PASS
NKG7	19	51371606	51372715	-0.016761391	PASS
NKIRAS1	3	23891660	23946591	0.311018244	suppress_segment_too_large
NKIRAS2	17	42011382	42025644	0.060555011	PASS
NKPD1	19	45149750	45158737	0.14996833	PASS
NKRF	23	119588337	119606443	-0.012567603	PASS
NKTR	3	42600614	42648741	-0.234617007	PASS
NKX1-1	4	1402932	1406331	0.279089364	PASS
NKX1-2	10	124445239	124450184	0.063874692	PASS
NKX2-1	14	36516392	36521149	0.060212819	PASS
NKX2-2	20	21511010	21514026	-0.168668583	PASS
NKX2-3	10	99532933	99536524	-0.367947924	PASS
NKX2-4	20	21395367	21398028	-0.168668583	PASS
NKX2-5	5	173232109	173235357	-0.150979337	PASS
NKX2-6	8	23702451	23706598	-0.345962679	PASS
NKX2-8	14	36580579	36582607	0.060212819	PASS
NKX3-1	8	23678693	23682927	-0.345962679	PASS
NKX3-2	4	13540830	13545050	0.279089364	PASS
NKX6-1	4	84491987	84498450	-0.011382299	PASS
NKX6-2	10	132783179	132786052	0.063874692	PASS
NKX6-3	8	41645178	41650669	-0.201142258	PASS
NLE1	17	35128753	35142315	0.060555011	PASS
NLGN1	3	173396284	174286644	0.318278996	suppress_segment_too_large
NLGN2	17	7404874	7419860	0.128406487	PASS
NLGN3	23	71144831	71171201	-0.012567603	PASS
NLGN4X	23	5840637	6228863	-0.012567603	PASS
NLK	17	28041737	28196381	0.060555011	PASS
NLN	5	65722196	65871725	-0.293443042	PASS
NLRC3	16	3539033	3577400	0.069936844	PASS

NLRC4	2	32224453	32265854	0.040498426	PASS
NLRC5	16	56989485	57083531	-0.371357732	PASS
NLRP1	17	5499427	5619424	0.128406487	PASS
NLRP10	11	7959424	7965426	-0.405444717	PASS
NLRP11	19	55785397	55836800	-0.180829161	PASS
NLRP12	19	53793603	53824394	0.206912349	PASS
NLRP13	19	55891699	55932336	-0.180829161	PASS
NLRP14	11	7020446	7071308	-0.405444717	PASS
NLRP2	19	54953130	55001142	-0.146906334	PASS
NLRP2B	23	57677067	57680260	-0.012567603	PASS
NLRP3	1	247416156	247449108	-0.368111568	PASS
NLRP4	19	55836578	55881854	-0.180829161	PASS
NLRP5	19	55999726	56061813	-0.180829161	PASS
NLRP6	11	278365	285359	-0.333835828	PASS
NLRP7	19	54923509	54966312	-0.146906334	PASS
NLRP8	19	55947832	55988629	-0.180829161	PASS
NLRP9	19	55708432	55738402	0.121336758	PASS
NLRX1	11	119166568	119184016	-0.356188624	PASS
NMB	15	84655129	84658563	-0.697600509	PASS
NMBR	6	142058330	142088799	-0.035448111	PASS
NMD3	3	161104696	161253532	0.318278996	suppress_segment_too_large
NME1	17	51153536	51162428	0.088516311	PASS
NME1-NM	17	51153590	51171744	0.088516311	PASS
NME2	17	51165435	51171747	0.088516311	PASS
NME3	16	1770286	1771730	0.069936844	PASS
NME4	16	396725	410367	0.069936844	PASS
NME5	5	138115172	138139443	-0.293443042	PASS
NME6	3	48290722	48301685	-0.234617007	PASS
NME7	1	169132531	169367967	-0.027073548	PASS
NME8	7	37848597	37900401	-0.69513118	PASS
NME9	3	138261437	138329886	0.313454204	suppress_segment_too_large
NMI	2	151270465	151290057	-0.475215623	PASS
NMNAT1	1	9943428	9985501	0.373964873	suppress_segment_too_large
NMNAT2	1	183248237	183418602	-0.027073548	PASS
NMNAT3	3	139560180	139678017	-0.356957581	PASS
NMRAL1	16	4461680	4495763	0.069936844	PASS
NMRK1	9	75060573	75088217	0.365190713	suppress_segment_too_large
NMRK2	19	3933103	3942416	0.079632875	PASS
NMS	2	100470482	100483280	0.048238121	PASS
NMT1	17	45051610	45109016	0.088516311	PASS
NMT2	10	15102584	15168693	0.039811807	PASS
NMU	4	55595229	55636698	-0.011382299	PASS
NMUR1	2	231523160	231530495	0.025928102	PASS
NMUR2	5	152391532	152433368	-0.293443042	PASS
NNAT	20	37521206	37523693	-0.168668583	PASS
NNMT	11	114257787	114313285	-0.356188624	PASS

NNT	5	43602692	43707405	-0.293443042	PASS
NOA1	4	56963370	56978823	-0.011382299	PASS
NOB1	16	69741867	69754940	-0.371357732	PASS
NOBOX	7	144397240	144410227	-0.388946609	PASS
NOC2L	1	944204	959309	0.373964873	suppress_segment_too_large
NOC3L	10	94333226	94362959	-0.39678585	PASS
NOC4L	12	132144448	132152473	0.270848837	PASS
NOCT	4	139015789	139045939	-0.011382299	PASS
NOD1	7	30424527	30478784	-0.69513118	PASS
NOD2	16	50693588	50734041	0.069936844	PASS
NODAL	10	70432315	70447951	0.072405807	PASS
NOG	17	56593699	56595590	0.088516311	PASS
NOL10	2	10570766	10689987	0.040498426	PASS
NOL11	17	67717833	67744531	0.088516311	PASS
NOL12	22	37681673	37693478	-0.575930959	PASS
NOL3	16	67170154	67175735	-0.371357732	PASS
NOL4	18	33851100	34224952	-0.376397843	PASS
NOL4L	20	32443059	32585074	-0.168668583	PASS
NOL6	9	33461441	33473930	-0.310444659	PASS
NOL7	6	13615327	13632739	0.048820648	PASS
NOL8	9	92297358	92325636	0.365190713	suppress_segment_too_large
NOL9	1	6521347	6554535	0.373964873	suppress_segment_too_large
NOLC1	10	102152176	102163871	-0.367947924	PASS
NOM1	7	156949723	156973182	-0.411415677	PASS
NOMO1	16	14833681	14896160	0.069936844	PASS
NOMO2	16	18417325	18562211	0.069936844	PASS
NOMO3	16	16232495	16294814	0.069936844	PASS
NONO	23	71283192	71301168	-0.012567603	PASS
NOP10	15	34341713	34343177	-0.396255771	PASS
NOP14	4	2937933	2963385	0.279089364	PASS
NOP16	5	176383938	176388975	-0.150979337	PASS
NOP2	12	6556863	6568691	-0.086128028	PASS
NOP53	19	47745522	47757058	0.14996833	PASS
NOP56	20	2652145	2658393	-0.168668583	PASS
NOP58	2	202265716	202303666	0.025928102	PASS
NOP9	14	24299862	24309124	0.060212819	PASS
NOS1	12	117208142	117452170	0.202141228	PASS
NOS1AP	1	162069774	162370475	-0.027073548	PASS
NOS2	17	27756766	27800499	0.060555011	PASS
NOS3	7	150990995	151014588	-0.388946609	PASS
NOSIP	19	49555711	49590262	0.14996833	PASS
NOSTRIN	2	168786539	168865514	0.039726562	PASS
NOTCH1	9	136494433	136545786	0.365190713	suppress_segment_too_large
NOTCH2	1	119911553	120069626	-0.157385092	PASS
NOTCH2N	1	146146203	146229026	-0.157385092	PASS
NOTCH3	19	15159038	15200981	0.093487731	suppress_segment_too_large

NOTCH4	6	32194843	32224067	0.048820648	PASS
NOTO	2	73202258	73212513	-0.372959126	PASS
NOTUM	17	81952507	81961840	0.088516311	PASS
NOV	8	119416306	119424353	0.279445683	PASS
NOVA1	14	26443093	26597754	0.060212819	PASS
NOVA2	19	45933734	45973546	0.14996833	PASS
NOX1	23	100843324	100874345	-0.012567603	PASS
NOX3	6	155395370	155455903	-0.035448111	PASS
NOX4	11	89324356	89498187	0.062969153	PASS
NOX5	15	68930525	69062743	-0.697600509	PASS
NOXA1	9	137423350	137434406	0.365190713	suppress_segment_too_large
NOXO1	16	1978917	1984192	0.069936844	PASS
NOXRED1	14	77394021	77423517	-0.192197564	PASS
NPAP1	15	24675868	24683393	-0.396255771	PASS
NPAS1	19	47019820	47045775	0.14996833	PASS
NPAS2	2	100820152	100996829	0.048238121	PASS
NPAS3	14	32934933	33804176	0.060212819	PASS
NPAS4	11	66421004	66426707	0.182439925	suppress_segment_too_large
NPAT	11	108157215	108222642	-0.356188624	PASS
NPB	17	81900745	81902905	0.088516311	PASS
NPBWR1	8	52938431	52941117	-0.201142258	PASS
NPBWR2	20	64105820	64107171	-0.168668583	PASS
NPC1	18	23506184	23586898	-0.376397843	PASS
NPC1L1	7	44512535	44541315	-0.69513118	PASS
NPC2	14	74476192	74494177	-0.192197564	PASS
NPDC1	9	137039470	137046203	0.365190713	suppress_segment_too_large
NPEPL1	20	58689131	58719238	-0.168668583	PASS
NPEPPS	17	47522942	47623276	0.088516311	PASS
NPFF	12	53506690	53507638	-0.202191512	PASS
NPFFR1	10	70247329	70283676	0.072405807	PASS
NPFFR2	4	72031804	72148067	-0.011382299	PASS
NPHP1	2	110122311	110205066	-0.010901494	PASS
NPHP3	3	132680609	132722442	0.313454204	suppress_segment_too_large
NPHP3-AC	3	132558142	132722459	0.313454204	suppress_segment_too_large
NPHP4	1	5862811	5992473	0.373964873	suppress_segment_too_large
NPHS1	19	35825964	35869287	0.093487731	suppress_segment_too_large
NPHS2	1	179550539	179575952	-0.027073548	PASS
NPIPA1	16	14922802	14952060	0.069936844	PASS
NPIPA2	16	14748066	14765413	0.069936844	PASS
NPIPA3	16	14708944	14726338	0.069936844	PASS
NPIPA5	16	15363624	15381047	0.069936844	PASS
NPIPA7	16	16379055	16393954	0.069936844	PASS
NPIPA8	16	18317942	18336736	0.069936844	PASS
NPIPB11	16	29381354	29404029	0.069936844	PASS
NPIPB12	16	29483642	29505999	0.069936844	PASS
NPIPB15	16	74377878	74392080	-0.371357732	PASS

NPIPB2	16	11927373	11976643	0.069936844	PASS
NPIPB3	16	21402237	21448567	0.069936844	PASS
NPIPB4	16	21834569	21880827	0.069936844	PASS
NPIPB5	16	22479121	22536521	0.069936844	PASS
NPIPB6	16	28342555	28363508	0.069936844	PASS
NPIPB7	16	28456372	28471175	0.069936844	PASS
NPIPB8	16	28637654	28658682	0.069936844	PASS
NPIPB9	16	28751787	28772807	0.069936844	PASS
NPL	1	182789293	182830384	-0.027073548	PASS
NPLOC4	17	81556887	81648465	0.088516311	PASS
NPM1	5	171387116	171411137	-0.150979337	PASS
NPM2	8	22024125	22036897	-0.345962679	PASS
NPM3	10	101781325	101783413	-0.367947924	PASS
NPNT	4	105894775	106004027	-0.011382299	PASS
NPPA	1	11845709	11848345	0.373964873	suppress_segment_too_large
NPPB	1	11857464	11858931	0.373964873	suppress_segment_too_large
NPPC	2	231921820	231926403	0.025928102	PASS
NPR1	1	153678637	153693992	0.103015788	PASS
NPR2	9	35792154	35809732	-0.310444659	PASS
NPR3	5	32689070	32791724	0.055007813	PASS
NPRL2	3	50347330	50351091	-0.234617007	PASS
NPRL3	16	84271	138860	0.069936844	PASS
NPS	10	127549369	127552639	0.063874692	PASS
NPSR1	7	34658239	34878332	-0.69513118	PASS
NPTN	15	73560014	73634134	-0.697600509	PASS
NPTX1	17	80467148	80477843	0.088516311	PASS
NPTX2	7	98617297	98629868	-0.262778904	PASS
NPTXR	22	38818452	38843982	-0.575930959	PASS
NPVF	7	25224570	25228486	-0.69513118	PASS
NPW	16	2009926	2020755	0.069936844	PASS
NPY	7	24284163	24291865	-0.69513118	PASS
NPY1R	4	163323961	163344832	-0.011382299	PASS
NPY2R	4	155208629	155217078	-0.011382299	PASS
NPY4R	10	46461099	46465881	-0.404852538	PASS
NPY4R2	10	47918739	47923524	-0.404852538	PASS
NPY5R	4	163343939	163351934	-0.011382299	PASS
NQO1	16	69706996	69726951	-0.371357732	PASS
NQO2	6	2987987	3028869	0.048820648	PASS
NR0B1	23	30304206	30309598	-0.012567603	PASS
NR0B2	1	26911489	26913966	0.033763446	PASS
NR1D1	17	40092787	40100725	0.060555011	PASS
NR1D2	3	23945260	23980618	0.311018244	suppress_segment_too_large
NR1H2	19	50329653	50382982	-0.016761391	PASS
NR1H3	11	47248300	47269032	0.117376172	PASS
NR1H4	12	100473708	100564413	0.202141228	PASS
NR1I2	3	119780484	119818485	0.313454204	suppress_segment_too_large

NR1I3	1	161229666	161238302	-0.027073548	PASS
NR2C1	12	95020229	95073703	0.202141228	PASS
NR2C2	3	14947584	15053600	0.311018244	suppress_segment_too_large
NR2C2AP	19	19201416	19203424	0.093487731	suppress_segment_too_large
NR2E1	6	108166058	108188809	-0.368590549	PASS
NR2E3	15	71792638	71818259	-0.697600509	PASS
NR2F1	5	93583224	93594615	-0.293443042	PASS
NR2F2	15	96325938	96340263	-0.697600509	PASS
NR2F6	19	17231883	17245940	0.093487731	suppress_segment_too_large
NR3C1	5	143277931	143435512	-0.293443042	PASS
NR3C2	4	148078762	148444698	-0.011382299	PASS
NR4A1	12	52022832	52059507	-0.202191512	PASS
NR4A2	2	156324432	156342348	-0.475215623	PASS
NR4A3	9	99821855	99866891	0.365190713	suppress_segment_too_large
NR5A1	9	124481236	124507430	0.365190713	suppress_segment_too_large
NR5A2	1	200027602	200177424	-0.027073548	PASS
NR6A1	9	124517275	124771310	0.365190713	suppress_segment_too_large
NRAP	10	113588716	113664127	0.063874692	PASS
NRARP	9	137300482	137302251	0.365190713	suppress_segment_too_large
NRAS	1	114704469	114716894	0.033763446	PASS
NRBF2	10	63133247	63155031	0.072405807	PASS
NRBP1	2	27427790	27442259	0.040498426	PASS
NRBP2	8	143833594	143840974	0.307788765	PASS
NRCAM	7	108147623	108456717	-0.388946609	PASS
NRDC	1	51789191	51878937	0.033763446	PASS
NRDE2	14	90267856	90332137	-0.192197564	PASS
NREP	5	111662621	111997464	-0.293443042	PASS
NRF1	7	129611714	129757082	-0.388946609	PASS
NRG1	8	31639386	32767959	-0.345962679	PASS
NRG2	5	139846779	140043299	-0.293443042	PASS
NRG3	10	81875314	82987179	0.072405807	PASS
NRG4	15	75935969	76059795	-0.697600509	PASS
NRGN	11	124739846	124747210	-0.419612865	PASS
NRIP1	21	14961235	15065936	-0.304975024	PASS
NRIP2	12	2825348	2835544	-0.086128028	PASS
NRIP3	11	8980576	9004049	-0.405444717	PASS
NRK	23	105822543	105958610	-0.012567603	PASS
NRL	14	24080107	24115014	0.060212819	PASS
NRM	6	30688047	30691420	0.048820648	PASS
NRN1	6	5997999	6007605	0.048820648	PASS
NRN1L	16	67884805	67888855	-0.371357732	PASS
NRP1	10	33177492	33336262	0.039811807	PASS
NRP2	2	205681990	205798133	0.025928102	PASS
NRROS	3	196639686	196662004	0.326834516	PASS
NRSN1	6	24126122	24154900	0.048820648	PASS
NRSN2	20	346782	359660	-0.168668583	PASS

NRTN	19	5823802	5828324	0.079632875	PASS
NRXN1	2	49918505	51225575	0.040498426	PASS
NRXN2	11	64606174	64723188	0.182439925	suppress_segment_too_large
NRXN3	14	78170373	79868290	-0.192197564	PASS
NSA2	5	74766991	74780113	-0.293443042	PASS
NSD1	5	177133025	177300215	-0.150979337	PASS
NSD2	4	1871424	1982207	0.279089364	PASS
NSD3	8	38269697	38382272	-0.201142258	PASS
NSDHL	23	152830967	152869729	-0.012567603	PASS
NSF	17	46590669	46757464	0.088516311	PASS
NSFL1C	20	1442162	1473842	-0.168668583	PASS
NSG1	4	4348140	4419058	0.279089364	PASS
NSG2	5	174045604	174243501	-0.150979337	PASS
NSL1	1	212726153	212791782	-0.256698369	PASS
NSMAF	8	58583504	58659844	-0.201142258	PASS
NSMCE1	16	27224991	27268794	0.069936844	PASS
NSMCE2	8	125091679	125367120	0.279445683	PASS
NSMCE3	15	29264992	29269829	-0.396255771	PASS
NSMCE4A	10	121957088	121975217	0.063874692	PASS
NSMF	9	137447573	137459334	0.365190713	suppress_segment_too_large
NSRP1	17	30115521	30186475	0.060555011	PASS
NSUN2	5	6599239	6633291	0.055007813	PASS
NSUN3	3	94062916	94128545	0.313454204	suppress_segment_too_large
NSUN4	1	46340177	46365152	0.033763446	PASS
NSUN5	7	73302517	73308867	-0.262778904	PASS
NSUN6	10	18545561	18659285	0.039811807	PASS
NSUN7	4	40749897	40809985	-0.011382299	PASS
NT5C	17	75130225	75131795	0.088516311	PASS
NT5C1A	1	39659121	39672038	0.033763446	PASS
NT5C1B	2	18562872	18589572	0.040498426	PASS
NT5C1B-R	2	18555545	18589564	0.040498426	PASS
NT5C2	10	103088017	103193306	-0.367947924	PASS
NT5C3A	7	33014113	33062797	-0.69513118	PASS
NT5C3B	17	41825181	41836263	0.060555011	PASS
NT5DC1	6	116100849	116249497	-0.368590549	PASS
NT5DC2	3	52524385	52535054	-0.234617007	PASS
NT5DC3	12	103770453	103841197	0.202141228	PASS
NT5DC4	2	112721486	112742879	-0.010901494	PASS
NT5E	6	85449584	85495791	-0.368590549	PASS
NT5M	17	17303335	17347663	0.024610076	PASS
NTAN1	16	15037853	15056079	0.069936844	PASS
NTF3	12	5432112	5521536	-0.086128028	PASS
NTF4	19	49061066	49065054	0.14996833	PASS
NTHL1	16	2039815	2047866	0.069936844	PASS
NTM	11	131370478	132336822	-0.419612865	PASS
NTMT1	9	129608884	129636131	0.365190713	suppress_segment_too_large

NTN1	17	9021542	9244000	-0.139031004	PASS
NTN3	16	2471499	2474145	0.069936844	PASS
NTN4	12	95657807	95791152	0.202141228	PASS
NTN5	19	48661407	48673081	0.14996833	PASS
NTNG1	1	107140007	107483458	0.033763446	PASS
NTNG2	9	132161676	132244534	0.365190713	suppress_segment_too_large
NTPCR	1	232950605	232983882	-0.256698369	PASS
NTRK1	1	156815640	156881850	0.103015788	PASS
NTRK2	9	84668551	85027070	0.365190713	suppress_segment_too_large
NTRK3	15	87859751	88256768	-0.697600509	PASS
NTS	12	85874295	85882992	0.202141228	PASS
NTSR1	20	62708837	62762771	-0.168668583	PASS
NTSR2	2	11658178	11670164	0.040498426	PASS
NUAK1	12	106063340	106140033	0.202141228	PASS
NUAK2	1	205302059	205321791	-0.256698369	PASS
NUB1	7	151341699	151378449	-0.388946609	PASS
NUBP1	16	10743786	10769351	0.069936844	PASS
NUBP2	16	1782901	1789191	0.069936844	PASS
NUBPL	14	31489956	31861224	0.060212819	PASS
NUCB1	19	48900050	48923372	0.14996833	PASS
NUCB2	11	17208153	17349980	-0.405444717	PASS
NUCKS1	1	205712819	205750276	-0.256698369	PASS
NUDC	1	26900238	26946862	0.033763446	PASS
NUDCD1	8	109240919	109334385	0.279445683	PASS
NUDCD2	5	163446526	163460140	-0.150979337	PASS
NUDCD3	7	44379121	44490880	-0.69513118	PASS
NUDT1	7	2242222	2251146	-0.69513118	PASS
NUDT10	23	51332231	51337525	-0.012567603	PASS
NUDT11	23	51490011	51496596	-0.012567603	PASS
NUDT12	5	103548855	103562793	-0.293443042	PASS
NUDT13	10	73110375	73131828	0.072405807	PASS
NUDT14	14	105172938	105181323	-0.192197564	PASS
NUDT15	13	48037567	48047222	-0.390786075	PASS
NUDT16	3	131381671	131388830	0.313454204	suppress_segment_too_large
NUDT16L	16	4693694	4695859	0.069936844	PASS
NUDT17	1	145845629	145848953	-0.157385092	PASS
NUDT18	8	22106872	22109419	-0.345962679	PASS
NUDT19	19	32691961	32713796	0.093487731	suppress_segment_too_large
NUDT2	9	34329506	34343713	-0.310444659	PASS
NUDT21	16	56429133	56452199	-0.371357732	PASS
NUDT22	11	64225941	64230686	0.182439925	suppress_segment_too_large
NUDT3	6	34279679	34392674	0.048820648	PASS
NUDT4	12	93377883	93408146	0.202141228	PASS
NUDT5	10	12165325	12196144	0.039811807	PASS
NUDT6	4	122888697	122922968	-0.011382299	PASS
NUDT7	16	77722492	77742260	-0.371357732	PASS

NUDT8	11	67627938	67629930	0.182439925	suppress_segment_too_large
NUDT9	4	87422582	87459454	-0.011382299	PASS
NUF2	1	163266576	163355764	-0.027073548	PASS
NUFIP1	13	44939249	44989483	-0.390786075	PASS
NUFIP2	17	29255836	29294118	0.060555011	PASS
NUGGC	8	28021964	28083871	-0.345962679	PASS
NUMA1	11	72002864	72080693	0.062969153	PASS
NUMB	14	73275107	73458617	0.060212819	PASS
NUMBL	19	40665905	40690972	0.093487731	suppress_segment_too_large
NUP107	12	68686734	68745809	-0.202191512	PASS
NUP133	1	229440260	229508341	-0.256698369	PASS
NUP153	6	17615035	17706834	0.048820648	PASS
NUP155	5	37288137	37371181	0.055007813	PASS
NUP160	11	47778087	47848555	0.117376172	PASS
NUP188	9	128947699	129007096	0.365190713	suppress_segment_too_large
NUP205	7	135557919	135648757	-0.388946609	PASS
NUP210	3	13316235	13420309	0.311018244	suppress_segment_too_large
NUP210L	1	153992685	154155116	0.103015788	PASS
NUP214	9	131125561	131234670	0.365190713	suppress_segment_too_large
NUP35	2	183117513	183161680	-0.169541924	PASS
NUP37	12	102073103	102120124	0.202141228	PASS
NUP43	6	149724315	149749665	-0.035448111	PASS
NUP50	22	45163841	45188015	-0.808211634	PASS
NUP54	4	76114659	76148515	-0.011382299	PASS
NUP58	13	25301524	25349800	-0.390786075	PASS
NUP62	19	49906825	49929763	-0.016761391	PASS
NUP62CL	23	107123427	107206433	-0.012567603	PASS
NUP85	17	75205659	75235758	0.088516311	PASS
NUP88	17	5360963	5420160	0.128406487	PASS
NUP93	16	56730105	56850286	-0.371357732	PASS
NUP98	11	3671083	3797792	-0.333835828	PASS
NUPL2	7	23181827	23201011	-0.69513118	PASS
NUPR1	16	28532708	28539174	0.069936844	PASS
NUPR2	7	56114681	56116400	-0.750061359	PASS
NUS1	6	117675502	117710640	-0.368590549	PASS
NUSAP1	15	41332694	41381050	-0.396255771	PASS
NUTF2	16	67846732	67872567	-0.371357732	PASS
NUTM1	15	34343315	34357737	-0.396255771	PASS
NUTM2A	10	87225448	87236908	-0.292453993	PASS
NUTM2B	10	79703227	79714681	0.072405807	PASS
NUTM2D	10	87357668	87370695	-0.292453993	PASS
NUTM2F	9	94318196	94328644	0.365190713	suppress_segment_too_large
NUTM2G	9	96928310	96940253	0.365190713	suppress_segment_too_large
NVL	1	224227334	224330387	-0.256698369	PASS
NWD1	19	16719976	16817963	0.093487731	suppress_segment_too_large
NWD2	4	37244220	37449465	-0.011382299	PASS

NXF1	11	62792123	62806302	0.182439925	suppress_segment_too_large
NXF2	23	102247161	102326719	-0.012567603	PASS
NXF3	23	103075810	103093125	-0.012567603	PASS
NXF5	23	101832112	101857577	-0.012567603	PASS
NXN	17	799313	979770	0.128406487	PASS
NXNL1	19	17455425	17460954	0.093487731	suppress_segment_too_large
NXNL2	9	88534033	88584274	0.365190713	suppress_segment_too_large
NXPE1	11	114521645	114559895	-0.356188624	PASS
NXPE2	11	114678386	114706933	-0.356188624	PASS
NXPE3	3	101779202	101827392	0.313454204	suppress_segment_too_large
NXPE4	11	114570591	114595762	-0.356188624	PASS
NXPH1	7	8433955	8752963	-0.69513118	PASS
NXPH2	2	138670772	138780348	-0.475215623	PASS
NXPH3	17	49575858	49583827	0.088516311	PASS
NXPH4	12	57216795	57226449	-0.202191512	PASS
NXT1	20	23350736	23354777	-0.168668583	PASS
NXT2	23	109535781	109544690	-0.012567603	PASS
NYAP1	7	100483927	100494799	-0.262778904	PASS
NYAP2	2	225399710	225654018	0.025928102	PASS
NYNRIN	14	24398786	24419288	0.060212819	PASS
NYX	23	41447434	41475710	-0.012567603	PASS
OAF	11	120210767	120230332	-0.356188624	PASS
OARD1	6	41033627	41097787	0.048820648	PASS
OAS1	12	112906777	112933222	0.202141228	PASS
OAS2	12	112978395	113011723	0.202141228	PASS
OAS3	12	112938352	112973249	0.202141228	PASS
OASL	12	121019111	121039242	0.202141228	PASS
OAT	10	124397303	124418976	0.063874692	PASS
OAZ1	19	2269509	2273490	0.079632875	PASS
OAZ2	15	64687573	64703281	-0.697600509	PASS
OAZ3	1	151762899	151771334	0.103015788	PASS
OBP2A	9	135546139	135549969	0.365190713	suppress_segment_too_large
OBP2B	9	133205277	133209250	0.365190713	suppress_segment_too_large
OBSCN	1	228208130	228378874	-0.256698369	PASS
OBSL1	2	219550729	219571859	0.025928102	PASS
OC90	8	132024220	132059380	0.113969953	PASS
OCA2	15	27754875	28099358	-0.396255771	PASS
OCEL1	19	17226204	17229219	0.093487731	suppress_segment_too_large
OCIAD1	4	48805212	48861817	-0.011382299	PASS
OCIAD2	4	48885019	48906937	-0.011382299	PASS
OCLN	5	69492292	69558104	-0.293443042	PASS
OCM	7	5879827	5886362	-0.69513118	PASS
OCM2	7	97984684	97991169	-0.262778904	PASS
OCRL	23	129539849	129592561	-0.012567603	PASS
OCSTAMF	20	46540946	46550574	-0.168668583	PASS
ODAM	4	70196496	70204576	-0.011382299	PASS

ODAPH	4	75556048	75565885	-0.011382299	PASS
ODC1	2	10439968	10448504	0.040498426	PASS
ODF1	8	102551572	102561017	0.279445683	PASS
ODF2	9	128455186	128501292	0.365190713	suppress_segment_too_large
ODF2L	1	86346824	86396342	0.033763446	PASS
ODF3	11	196738	200261	-0.333835828	PASS
ODF3B	22	50529710	50532580	-0.808211634	PASS
ODF3L1	15	75723977	75727688	-0.697600509	PASS
ODF3L2	19	463346	474983	0.079632875	PASS
ODF4	17	8339864	8346048	0.128406487	PASS
ODR4	1	186375838	186421378	-0.027073548	PASS
OFD1	23	13734745	13769353	-0.012567603	PASS
OGA	10	101784443	101818465	-0.367947924	PASS
OGDH	7	44606572	44709066	-0.69513118	PASS
OGDHL	10	49734643	49762379	-0.404852538	PASS
OGFOD1	16	56451490	56479100	-0.371357732	PASS
OGFOD2	12	122974580	122980043	0.202141228	PASS
OGFOD3	17	82389223	82418637	0.088516311	PASS
OGFR	20	62804835	62814000	-0.168668583	PASS
OGFRL1	6	71288803	71308950	-0.368590549	PASS
OGG1	3	9749944	9788219	0.311018244	suppress_segment_too_large
OGN	9	92383967	92404696	0.365190713	suppress_segment_too_large
OGT	23	71533083	71575897	-0.012567603	PASS
OIP5	15	41309268	41332621	-0.396255771	PASS
OIT3	10	72893581	72933033	0.072405807	PASS
OLA1	2	174072447	174248698	0.039726562	PASS
OLAH	10	15032227	15073852	0.039811807	PASS
OLFM1	9	135075422	135121179	0.365190713	suppress_segment_too_large
OLFM2	19	9853718	9936552	0.093487731	suppress_segment_too_large
OLFM3	1	101802574	101997030	0.033763446	PASS
OLFM4	13	53028759	53052057	-0.390786075	PASS
OLFML1	11	7485388	7511377	-0.405444717	PASS
OLFML2A	9	124777158	124814885	0.365190713	suppress_segment_too_large
OLFML2B	1	161983192	162023854	-0.027073548	PASS
OLFML3	1	113979391	114035572	0.033763446	PASS
OLIG1	21	33070144	33072420	0.12860881	suppress_segment_too_large
OLIG2	21	33025845	33029196	0.12860881	suppress_segment_too_large
OLIG3	6	137492202	137494250	-0.035448111	PASS
OLR1	12	10158301	10172138	0.362961408	suppress_segment_too_large
OMA1	1	58415384	58546802	0.033763446	PASS
OMD	9	92414245	92424461	0.365190713	suppress_segment_too_large
OMG	17	31272013	31297539	0.060555011	PASS
OMP	11	77102840	77103331	0.062969153	PASS
ONECUT1	15	52756989	52791078	-0.396255771	PASS
ONECUT2	18	57435685	57491297	-0.376397843	PASS
ONECUT3	19	1752373	1780988	0.079632875	PASS

OOEP	6	73368555	73395133	-0.368590549	PASS
OOSP2	11	60040275	60048044	-0.129266491	PASS
OOSP4B	11	59978020	60031077	-0.129266491	PASS
OPA1	3	193593144	193697823	0.326834516	PASS
OPA3	19	45527427	45602212	0.14996833	PASS
OPALIN	10	96343216	96359365	-0.367947924	PASS
OPCML	11	132414977	133532519	-0.419612865	PASS
OPHN1	23	68042344	68433913	-0.012567603	PASS
OPLAH	8	144051266	144063965	0.307788765	PASS
OPN1LW	23	154144224	154159032	-0.012567603	PASS
OPN1MW	23	154182596	154196135	-0.012567603	PASS
OPN1SW	7	128772491	128775790	-0.388946609	PASS
OPN3	1	241590102	241677376	-0.648598641	PASS
OPN4	10	86654557	86666848	-0.292453993	PASS
OPN5	6	47781982	47832780	0.048820648	PASS
OPRD1	1	28812142	28871267	0.033763446	PASS
OPRK1	8	53225716	53251697	-0.201142258	PASS
OPRL1	20	64080173	64100643	-0.168668583	PASS
OPRM1	6	154010496	154246867	-0.035448111	PASS
OPRPN	4	70397882	70410194	-0.011382299	PASS
OPTC	1	203494143	203508864	-0.256698369	PASS
OPTN	10	13099449	13138308	0.039811807	PASS
OR10A2	11	6863057	6874717	-0.405444717	PASS
OR10A3	11	7937171	7941708	-0.405444717	PASS
OR10A4	11	6876625	6877619	-0.405444717	PASS
OR10A5	11	6845652	6846705	-0.405444717	PASS
OR10A6	11	7924592	7931268	-0.405444717	PASS
OR10A7	12	55221025	55221975	-0.202191512	PASS
OR10AD1	12	48202083	48203387	-0.202191512	PASS
OR10AG1	11	55965755	55969945	-0.129266491	PASS
OR10C1	6	29439306	29440977	0.048820648	PASS
OR10D3	11	124183345	124188780	-0.949752196	PASS
OR10G2	14	21633836	21634940	0.060212819	PASS
OR10G3	14	21568520	21580076	0.060212819	PASS
OR10G4	11	124012997	124018732	-0.949752196	PASS
OR10G6	11	123994163	123995161	-0.949752196	PASS
OR10G7	11	124036013	124041325	-0.949752196	PASS
OR10G8	11	124026798	124030634	-0.949752196	PASS
OR10G9	11	124023013	124023948	-0.949752196	PASS
OR10H1	19	15804549	15815664	0.093487731	suppress_segment_too_large
OR10H2	19	15728020	15729060	0.093487731	suppress_segment_too_large
OR10H3	19	15737985	15742343	0.093487731	suppress_segment_too_large
OR10H4	19	15944299	15950350	0.093487731	suppress_segment_too_large
OR10H5	19	15787661	15801025	0.093487731	suppress_segment_too_large
OR10J1	1	159437845	159443078	-0.467855874	PASS
OR10J5	1	159535078	159536007	-0.467855874	PASS

OR10K1	1	158461574	158470857	-0.467855874	PASS
OR10K2	1	158418210	158426237	-0.467855874	PASS
OR10P1	12	55636860	55637854	-0.202191512	PASS
OR10Q1	11	58227882	58228918	-0.129266491	PASS
OR10R2	1	158472220	158480936	-0.467855874	PASS
OR10S1	11	123976661	123977781	-0.949752196	PASS
OR10T2	1	158398522	158399466	-0.467855874	PASS
OR10V1	11	59712916	59713845	-0.129266491	PASS
OR10W1	11	58266792	58268260	-0.129266491	PASS
OR10X1	1	158578919	158579899	-0.467855874	PASS
OR10Z1	1	158605268	158612514	-0.467855874	PASS
OR11A1	6	29425504	29457071	0.048820648	PASS
OR11G2	14	20190894	20201075	-0.238381381	PASS
OR11H1	22	15528159	15529139	-0.575930959	PASS
OR11H12	14	18601045	18602129	-0.238381381	PASS
OR11H2	14	19712904	19714332	-0.238381381	PASS
OR11H4	14	20239286	20244349	0.060212819	PASS
OR11H6	14	20223710	20224702	0.060212819	PASS
OR11L1	1	247840928	247841896	-0.368111568	PASS
OR12D2	6	29395631	29398008	0.048820648	PASS
OR12D3	6	29373423	29375291	0.048820648	PASS
OR13A1	10	45302298	45315608	-0.404852538	PASS
OR13C2	9	104604671	104605627	0.365190713	suppress_segment_too_large
OR13C3	9	104535749	104536856	0.365190713	suppress_segment_too_large
OR13C4	9	104526253	104527209	0.365190713	suppress_segment_too_large
OR13C5	9	104598457	104599413	0.365190713	suppress_segment_too_large
OR13C8	9	104569168	104570130	0.365190713	suppress_segment_too_large
OR13C9	9	104617248	104618204	0.365190713	suppress_segment_too_large
OR13D1	9	104694379	104695485	0.365190713	suppress_segment_too_large
OR13F1	9	104504263	104505222	0.365190713	suppress_segment_too_large
OR13G1	1	247670812	247679739	-0.368111568	PASS
OR13H1	23	131543976	131545056	-0.012567603	PASS
OR13J1	9	35869263	35870601	-0.310444659	PASS
OR14A16	1	247814660	247824119	-0.368111568	PASS
OR14A2	1	247722957	247724043	-0.368111568	PASS
OR14C36	1	248348775	248349713	-0.368111568	PASS
OR14I1	1	248681369	248682304	-0.368111568	PASS
OR14J1	6	29301701	29313017	0.048820648	PASS
OR14K1	1	247738615	247739559	-0.368111568	PASS
OR1A1	17	3207539	3218896	0.128406487	PASS
OR1A2	17	3197519	3198448	0.128406487	PASS
OR1B1	9	122628579	122629573	0.365190713	suppress_segment_too_large
OR1C1	1	247754846	247760556	-0.368111568	PASS
OR1D2	17	3088484	3104422	0.128406487	PASS
OR1D5	17	3062669	3063607	0.128406487	PASS
OR1E1	17	3397104	3398410	0.128406487	PASS

OR1E2	17	3432870	3433841	0.128406487	PASS
OR1F1	16	3204247	3205188	0.069936844	PASS
OR1G1	17	3126584	3127581	0.128406487	PASS
OR1I1	19	15082211	15092970	0.093487731	suppress_segment_too_large
OR1J1	9	122476958	122477926	0.365190713	suppress_segment_too_large
OR1J2	9	122510802	122511743	0.365190713	suppress_segment_too_large
OR1J4	9	122519141	122520082	0.365190713	suppress_segment_too_large
OR1K1	9	122800123	122801073	0.365190713	suppress_segment_too_large
OR1L1	9	122661566	122662648	0.365190713	suppress_segment_too_large
OR1L3	9	122675036	122676153	0.365190713	suppress_segment_too_large
OR1L4	9	122723990	122724925	0.365190713	suppress_segment_too_large
OR1L6	9	122742303	122750783	0.365190713	suppress_segment_too_large
OR1L8	9	122567117	122583384	0.365190713	suppress_segment_too_large
OR1M1	19	9087061	9095669	0.093487731	suppress_segment_too_large
OR1N1	9	122526358	122527296	0.365190713	suppress_segment_too_large
OR1N2	9	122553112	122554214	0.365190713	suppress_segment_too_large
OR1Q1	9	122614738	122615682	0.365190713	suppress_segment_too_large
OR1S1	11	58212720	58216084	-0.129266491	PASS
OR1S2	11	58203202	58204181	-0.129266491	PASS
OR2A1	7	144312464	144322668	-0.388946609	PASS
OR2A12	7	144086278	144098953	-0.388946609	PASS
OR2A14	7	144123176	144131188	-0.388946609	PASS
OR2A2	7	144109514	144110564	-0.388946609	PASS
OR2A25	7	144069811	144075870	-0.388946609	PASS
OR2A4	6	131699644	131701401	-0.458570262	PASS
OR2A42	7	144228244	144239605	-0.388946609	PASS
OR2A5	7	144048948	144058845	-0.388946609	PASS
OR2A7	7	144257663	144264792	-0.388946609	PASS
OR2AE1	7	99875987	99877057	-0.262778904	PASS
OR2AG1	11	6783020	6791558	-0.405444717	PASS
OR2AG2	11	6765626	6771976	-0.405444717	PASS
OR2AJ1	1	247924889	247935339	-0.368111568	PASS
OR2AK2	1	247965233	247966386	-0.368111568	PASS
OR2AP1	12	55572468	55575612	-0.202191512	PASS
OR2AT4	11	75081753	75096876	0.062969153	PASS
OR2B11	1	247449118	247458105	-0.368111568	PASS
OR2B2	6	27911185	27912396	0.048820648	PASS
OR2B3	6	29086208	29087313	0.048820648	PASS
OR2B6	6	27957241	27958182	0.048820648	PASS
OR2C1	16	3355889	3357294	0.069936844	PASS
OR2C3	1	247524677	247536440	-0.368111568	PASS
OR2D2	11	6891490	6892599	-0.405444717	PASS
OR2D3	11	6920974	6922043	-0.405444717	PASS
OR2F1	7	143954844	143997312	-0.388946609	PASS
OR2F2	7	143935166	143936279	-0.388946609	PASS
OR2G2	1	247588360	247589313	-0.368111568	PASS

OR2G3	1	247605586	247606515	-0.368111568	PASS
OR2G6	1	248508073	248527337	-0.368111568	PASS
OR2H1	6	29457181	29464328	0.048820648	PASS
OR2H2	6	29585121	29590500	0.048820648	PASS
OR2I1P	6	29550407	29557721	0.048820648	PASS
OR2J1	6	29099657	29102701	0.048820648	PASS
OR2J2	6	29170907	29175811	0.048820648	PASS
OR2J3	6	29108059	29114770	0.048820648	PASS
OR2K2	9	111327483	111330183	0.365190713	suppress_segment_too_large
OR2L13	1	248095184	248101103	-0.368111568	PASS
OR2L2	1	248030070	248042305	-0.368111568	PASS
OR2L3	1	248046836	248063407	-0.368111568	PASS
OR2L5	1	248013660	248024276	-0.368111568	PASS
OR2L8	1	247948858	247949796	-0.368111568	PASS
OR2M2	1	248174821	248181067	-0.368111568	PASS
OR2M3	1	248197265	248212925	-0.368111568	PASS
OR2M4	1	248231417	248244679	-0.368111568	PASS
OR2M5	1	248145148	248146086	-0.368111568	PASS
OR2M7	1	248323630	248324568	-0.368111568	PASS
OR2S2	9	35957108	35958154	-0.310444659	PASS
OR2T1	1	248403048	248408020	-0.368111568	PASS
OR2T10	1	248590487	248597700	-0.368111568	PASS
OR2T11	1	248623557	248635091	-0.368111568	PASS
OR2T12	1	248290139	248303424	-0.368111568	PASS
OR2T2	1	248445512	248455725	-0.368111568	PASS
OR2T27	1	248649838	248655528	-0.368111568	PASS
OR2T29	1	248556912	248562772	-0.368111568	PASS
OR2T3	1	248473351	248474307	-0.368111568	PASS
OR2T33	1	248269917	248277976	-0.368111568	PASS
OR2T34	1	248573801	248574757	-0.368111568	PASS
OR2T35	1	248636356	248645278	-0.368111568	PASS
OR2T4	1	248361581	248362627	-0.368111568	PASS
OR2T5	1	248488589	248491113	-0.368111568	PASS
OR2T6	1	248375746	248391811	-0.368111568	PASS
OR2T8	1	247920252	247921956	-0.368111568	PASS
OR2V1	5	181123122	181131169	-0.150979337	PASS
OR2V2	5	181147586	181159285	-0.150979337	PASS
OR2W1	6	29044213	29045240	0.048820648	PASS
OR2W3	1	247895587	247896531	-0.368111568	PASS
OR2Y1	5	180739042	180740099	-0.150979337	PASS
OR2Z1	19	8721634	8732160	0.079632875	PASS
OR3A1	17	3291017	3298360	0.128406487	PASS
OR3A2	17	3276942	3386317	0.128406487	PASS
OR3A3	17	3411370	3424070	0.128406487	PASS
OR4A15	11	55367884	55368918	-0.129266491	PASS
OR4A16	11	55343151	55344231	-0.129266491	PASS

OR4A47	11	48488717	48489780	-0.621795272	PASS
OR4A5	11	54706832	54707902	-0.621795272	PASS
OR4B1	11	48216810	48217739	-0.621795272	PASS
OR4C11	11	55602360	55607645	-0.129266491	PASS
OR4C12	11	49981473	49982535	-0.621795272	PASS
OR4C13	11	49952391	49953419	-0.621795272	PASS
OR4C15	11	55554307	55555419	-0.129266491	PASS
OR4C16	11	55572128	55573060	-0.129266491	PASS
OR4C3	11	48324920	48328471	-0.621795272	PASS
OR4C46	11	54603069	54603998	-0.621795272	PASS
OR4C5	11	48365485	48366465	-0.621795272	PASS
OR4C6	11	55662201	55666195	-0.129266491	PASS
OR4D1	17	58148449	58159555	0.088516311	PASS
OR4D10	11	59473315	59479361	-0.129266491	PASS
OR4D11	11	59503576	59504511	-0.129266491	PASS
OR4D2	17	58166982	58171411	0.088516311	PASS
OR4D5	11	123939543	123940637	-0.949752196	PASS
OR4D6	11	59456938	59457991	-0.129266491	PASS
OR4D9	11	59511368	59520703	-0.129266491	PASS
OR4E1	14	21667940	21673818	0.060212819	PASS
OR4E2	14	21653835	21667642	0.060212819	PASS
OR4F15	15	101812202	101820197	-0.697600509	PASS
OR4F17	19	107104	117102	0.079632875	PASS
OR4F21	8	166049	167043	-0.106598973	PASS
OR4F4	15	101922042	101923113	-0.697600509	PASS
OR4F5	1	65419	71585	-0.078582216	PASS
OR4F6	15	101803509	101806887	-0.697600509	PASS
OR4K1	14	19930917	19936757	-0.238381381	PASS
OR4K13	14	20029399	20036038	-0.238381381	PASS
OR4K14	14	20014143	20019307	-0.238381381	PASS
OR4K15	14	19975444	19976659	-0.238381381	PASS
OR4K17	14	20110739	20122199	-0.238381381	PASS
OR4K2	14	19875142	19883932	-0.238381381	PASS
OR4K5	14	19920582	19921659	-0.238381381	PASS
OR4L1	14	20060045	20060983	-0.238381381	PASS
OR4M1	14	19773504	19783696	-0.238381381	PASS
OR4N2	14	19719015	19830253	-0.238381381	PASS
OR4N4	15	22094522	22095472	-0.750600437	PASS
OR4N5	14	20138820	20145471	-0.238381381	PASS
OR4P4	11	55635113	55640309	-0.129266491	PASS
OR4Q3	14	19743571	19749469	-0.238381381	PASS
OR4S1	11	48306223	48307152	-0.621795272	PASS
OR4S2	11	55648327	55652854	-0.129266491	PASS
OR4X1	11	48263861	48264778	-0.621795272	PASS
OR4X2	11	48245056	48246080	-0.621795272	PASS
OR51A2	11	4954772	4955713	-0.957525224	PASS

OR51A4	11	4942831	4947605	-0.957525224	PASS
OR51A7	11	4903783	4909462	-0.957525224	PASS
OR51B2	11	5323359	5324297	-0.957525224	PASS
OR51B4	11	5301014	5301946	-0.957525224	PASS
OR51B5	11	5303444	5505652	-0.957525224	PASS
OR51B6	11	5351508	5352446	-0.957525224	PASS
OR51D1	11	4637477	4643060	-0.957525224	PASS
OR51E1	11	4643420	4655488	-0.957525224	PASS
OR51E2	11	4680171	4697854	-0.957525224	PASS
OR51F1	11	4768979	4769938	-0.957525224	PASS
OR51F2	11	4821321	4822456	-0.957525224	PASS
OR51G1	11	4923374	4924339	-0.957525224	PASS
OR51G2	11	4912588	4919350	-0.957525224	PASS
OR51I1	11	5440570	5441514	-0.957525224	PASS
OR51I2	11	5449323	5456518	-0.957525224	PASS
OR51L1	11	4994851	5005536	-0.957525224	PASS
OR51M1	11	5383812	5393263	-0.957525224	PASS
OR51Q1	11	5422111	5423206	-0.957525224	PASS
OR51S1	11	4847489	4849238	-0.957525224	PASS
OR51T1	11	4881819	4882883	-0.957525224	PASS
OR51V1	11	5199735	5200700	-0.957525224	PASS
OR52A1	11	5143219	5154757	-0.957525224	PASS
OR52A5	11	5128776	5138356	-0.957525224	PASS
OR52B2	11	6169330	6170408	-0.957525224	PASS
OR52B4	11	4367263	4368386	-0.333835828	PASS
OR52B6	11	5580877	5581884	-0.957525224	PASS
OR52D1	11	5488685	5489749	-0.957525224	PASS
OR52E2	11	5058650	5059627	-0.957525224	PASS
OR52E4	11	5880629	5887079	-0.957525224	PASS
OR52E5	11	5893208	5902730	-0.957525224	PASS
OR52E6	11	5840928	5841952	-0.957525224	PASS
OR52E8	11	5856674	5857734	-0.957525224	PASS
OR52H1	11	5544489	5548533	-0.957525224	PASS
OR52I1	11	4593614	4596574	-0.333835828	PASS
OR52I2	11	4581743	4593340	-0.333835828	PASS
OR52J3	11	5046526	5047461	-0.957525224	PASS
OR52K1	11	4482646	4493497	-0.333835828	PASS
OR52K2	11	4449295	4450361	-0.333835828	PASS
OR52L1	11	5985892	5986985	-0.957525224	PASS
OR52M1	11	4545191	4546144	-0.333835828	PASS
OR52N1	11	5786471	5791265	-0.957525224	PASS
OR52N2	11	5820314	5821348	-0.957525224	PASS
OR52N4	11	5754243	5755905	-0.957525224	PASS
OR52N5	11	5776165	5783355	-0.957525224	PASS
OR52R1	11	4803433	4804380	-0.957525224	PASS
OR52W1	11	6199146	6200259	-0.957525224	PASS

OR56A1	11	6019336	6034338	-0.957525224	PASS
OR56A3	11	5938751	5951347	-0.957525224	PASS
OR56A4	11	5999445	6006946	-0.957525224	PASS
OR56A5	11	5967177	5968494	-0.957525224	PASS
OR56B1	11	5736448	5738522	-0.957525224	PASS
OR56B4	11	6107684	6108835	-0.957525224	PASS
OR5A1	11	59436469	59451380	-0.129266491	PASS
OR5A2	11	59416969	59426412	-0.129266491	PASS
OR5AC2	3	98087173	98088102	0.313454204	suppress_segment_too_large
OR5AK2	11	56988872	56989867	-0.129266491	PASS
OR5AN1	11	59358895	59371714	-0.129266491	PASS
OR5AP2	11	56641466	56642471	-0.129266491	PASS
OR5AR1	11	56663662	56664687	-0.129266491	PASS
OR5AS1	11	56027654	56038191	-0.129266491	PASS
OR5AU1	14	21148370	21159060	0.060212819	PASS
OR5B12	11	58439077	58442758	-0.129266491	PASS
OR5B17	11	58358124	58359069	-0.129266491	PASS
OR5B2	11	58421264	58428121	-0.129266491	PASS
OR5B21	11	58507175	58508105	-0.129266491	PASS
OR5B3	11	58402464	58406874	-0.129266491	PASS
OR5C1	9	122788933	122789895	0.365190713	suppress_segment_too_large
OR5D13	11	55773438	55774382	-0.129266491	PASS
OR5D14	11	55795556	55796500	-0.129266491	PASS
OR5D16	11	55838752	55839738	-0.129266491	PASS
OR5D18	11	55819607	55820597	-0.129266491	PASS
OR5F1	11	55993681	55994625	-0.129266491	PASS
OR5H1	3	98130721	98138548	0.313454204	suppress_segment_too_large
OR5H14	3	98147479	98156614	0.313454204	suppress_segment_too_large
OR5H15	3	98166696	98169774	0.313454204	suppress_segment_too_large
OR5H2	3	98282888	98283832	0.313454204	suppress_segment_too_large
OR5H6	3	98263252	98265356	0.313454204	suppress_segment_too_large
OR5I1	11	55935456	55936400	-0.129266491	PASS
OR5J2	11	56176618	56177556	-0.129266491	PASS
OR5K1	3	98463201	98472924	0.313454204	suppress_segment_too_large
OR5K2	3	98497604	98498663	0.313454204	suppress_segment_too_large
OR5K3	3	98390666	98391631	0.313454204	suppress_segment_too_large
OR5K4	3	98353854	98354819	0.313454204	suppress_segment_too_large
OR5L1	11	55811367	55812476	-0.129266491	PASS
OR5L2	11	55827219	55828154	-0.129266491	PASS
OR5M1	11	56609236	56614874	-0.129266491	PASS
OR5M10	11	56576736	56577787	-0.129266491	PASS
OR5M11	11	56542262	56543281	-0.129266491	PASS
OR5M3	11	56469274	56473352	-0.129266491	PASS
OR5M8	11	56490349	56491395	-0.129266491	PASS
OR5M9	11	56462469	56463401	-0.129266491	PASS
OR5P2	11	7795905	7796973	-0.405444717	PASS

OR5P3	11	7824818	7830840	-0.405444717	PASS
OR5R1	11	56417258	56418232	-0.129266491	PASS
OR5T1	11	56274154	56276819	-0.129266491	PASS
OR5T2	11	56231282	56234255	-0.129266491	PASS
OR5T3	11	56252200	56253222	-0.129266491	PASS
OR5V1	6	29353749	29431967	0.048820648	PASS
OR5W2	11	55913650	55914582	-0.129266491	PASS
OR6A2	11	6791736	6799689	-0.405444717	PASS
OR6B1	7	144000320	144008793	-0.388946609	PASS
OR6B2	2	240028965	240030456	0.025928102	PASS
OR6B3	2	240045077	240047027	0.025928102	PASS
OR6C1	12	55314343	55322364	-0.202191512	PASS
OR6C2	12	55444069	55453347	-0.202191512	PASS
OR6C3	12	55330043	55332687	-0.202191512	PASS
OR6C4	12	55549602	55555832	-0.202191512	PASS
OR6C6	12	55293988	55296569	-0.202191512	PASS
OR6C65	12	55400430	55401505	-0.202191512	PASS
OR6C68	12	55492378	55493316	-0.202191512	PASS
OR6C70	12	55469200	55470138	-0.202191512	PASS
OR6C74	12	55247198	55248302	-0.202191512	PASS
OR6C75	12	55362975	55369279	-0.202191512	PASS
OR6C76	12	55426254	55427192	-0.202191512	PASS
OR6F1	1	247711436	247716646	-0.368111568	PASS
OR6J1	14	22630929	22644352	0.060212819	PASS
OR6K2	1	158699678	158700652	-0.467855874	PASS
OR6K3	1	158716327	158720720	-0.467855874	PASS
OR6K6	1	158754720	158755891	-0.467855874	PASS
OR6M1	11	123805335	123806387	-0.949752196	PASS
OR6N1	1	158747814	158772195	-0.467855874	PASS
OR6N2	1	158774222	158781204	-0.467855874	PASS
OR6P1	1	158560606	158570580	-0.467855874	PASS
OR6Q1	11	58030930	58031931	-0.129266491	PASS
OR6S1	14	20640696	20641691	0.060212819	PASS
OR6T1	11	123942785	123943873	-0.949752196	PASS
OR6V1	7	143052320	143053347	-0.388946609	PASS
OR6X1	11	123753488	123754545	-0.949752196	PASS
OR6Y1	1	158544550	158554405	-0.467855874	PASS
OR7A10	19	14840466	14848922	0.093487731	suppress_segment_too_large
OR7A17	19	14878203	14886132	0.093487731	suppress_segment_too_large
OR7A5	19	14824251	14835285	0.093487731	suppress_segment_too_large
OR7C1	19	14789260	14835376	0.093487731	suppress_segment_too_large
OR7C2	19	14941489	14942448	0.093487731	suppress_segment_too_large
OR7D2	19	9178979	9188817	0.093487731	suppress_segment_too_large
OR7D4	19	9210276	9219589	0.093487731	suppress_segment_too_large
OR7E24	19	9247344	9252625	0.093487731	suppress_segment_too_large
OR7E47P	12	52079696	52108239	-0.202191512	PASS

OR7G1	19	9114828	9115763	0.093487731	suppress_segment_too_large
OR7G2	19	9100407	9107475	0.093487731	suppress_segment_too_large
OR7G3	19	9126012	9126950	0.093487731	suppress_segment_too_large
OR8A1	11	124566660	124582942	-0.949752196	PASS
OR8B12	11	124539635	124545333	-0.949752196	PASS
OR8B2	11	124382394	124384462	-0.949752196	PASS
OR8B3	11	124395534	124399024	-0.949752196	PASS
OR8B4	11	124423904	124424893	-0.949752196	PASS
OR8B8	11	124437445	124445696	-0.949752196	PASS
OR8D1	11	124302831	124315099	-0.949752196	PASS
OR8D2	11	124319238	124320288	-0.949752196	PASS
OR8D4	11	123902167	123909229	-0.949752196	PASS
OR8G1	11	124241095	124254364	-0.949752196	PASS
OR8G5	11	124256376	124266218	-0.949752196	PASS
OR8H1	11	56288462	56292254	-0.129266491	PASS
OR8H2	11	56103687	56107658	-0.129266491	PASS
OR8H3	11	56122373	56123311	-0.129266491	PASS
OR8I2	11	56093277	56094286	-0.129266491	PASS
OR8J1	11	56354291	56361511	-0.129266491	PASS
OR8J3	11	56134721	56140201	-0.129266491	PASS
OR8K1	11	56345945	56347031	-0.129266491	PASS
OR8K3	11	56315144	56320639	-0.129266491	PASS
OR8K5	11	56159394	56160317	-0.129266491	PASS
OR8S1	12	48525632	48528103	-0.202191512	PASS
OR8U1	11	56375624	56376553	-0.129266491	PASS
OR9A2	7	143026158	143027195	-0.388946609	PASS
OR9A4	7	141916399	141920625	-0.388946609	PASS
OR9G1	11	56699095	56703884	-0.129266491	PASS
OR9G4	11	56741223	56748697	-0.129266491	PASS
OR9I1	11	58116742	58125530	-0.129266491	PASS
OR9K2	12	55126406	55132750	-0.202191512	PASS
OR9Q1	11	58023881	58181616	-0.129266491	PASS
OR9Q2	11	58189070	58194053	-0.129266491	PASS
ORAI1	12	121626550	121642677	0.202141228	PASS
ORAI2	7	102433106	102456821	-0.388946609	PASS
ORAI3	16	30949066	30956461	0.069936844	PASS
ORC1	1	52372829	52404459	0.033763446	PASS
ORC2	2	200908973	200963680	0.025928102	PASS
ORC3	6	87590067	87667453	-0.368590549	PASS
ORC4	2	147930397	148021604	-0.475215623	PASS
ORC5	7	104126341	104208047	-0.388946609	PASS
ORC6	16	46689643	46698394	0.069936844	PASS
ORM1	9	114323056	114326475	0.365190713	suppress_segment_too_large
ORM2	9	114329869	114333252	0.365190713	suppress_segment_too_large
ORMDL1	2	189770323	189784371	0.025928102	PASS
ORMDL2	12	55817919	55821879	-0.202191512	PASS

ORMDL3	17	39921041	39927601	0.060555011	PASS
OS9	12	57693955	57721557	-0.202191512	PASS
OSBP	11	59574398	59616144	-0.129266491	PASS
OSBP2	22	30693782	30907824	-0.575930959	PASS
OSBPL10	3	31657890	32077580	0.311018244	suppress_segment_too_large
OSBPL11	3	125528858	125595090	0.313454204	suppress_segment_too_large
OSBPL1A	18	24162044	24397880	-0.376397843	PASS
OSBPL2	20	62231922	62296213	-0.168668583	PASS
OSBPL3	7	24796539	24981634	-0.69513118	PASS
OSBPL5	11	3087116	3166739	-0.333835828	PASS
OSBPL6	2	178194481	178402891	0.039726562	PASS
OSBPL7	17	47807372	47821834	0.088516311	PASS
OSBPL8	12	76351797	76559809	0.202141228	PASS
OSBPL9	1	51577179	51798427	0.033763446	PASS
OSCAR	19	54094668	54102692	0.206912349	PASS
OSCP1	1	36415827	36450451	0.033763446	PASS
OSER1	20	44196496	44210791	-0.168668583	PASS
OSGEP	14	20446411	20455105	0.060212819	PASS
OSGEPL1	2	189746660	189763227	0.025928102	PASS
OSGIN1	16	83948282	83966332	-0.371357732	PASS
OSGIN2	8	89901849	89927888	0.279445683	PASS
OSM	22	30262829	30266840	-0.575930959	PASS
OSMR	5	38845858	38945596	0.055007813	PASS
OSR1	2	19351485	19358653	0.040498426	PASS
OSR2	8	98944403	98952104	0.279445683	PASS
OST4	2	27070472	27071773	0.040498426	PASS
OSTC	4	108650584	108667820	-0.011382299	PASS
OSTF1	9	75088543	75147265	0.365190713	suppress_segment_too_large
OSTM1	6	108041409	108165854	-0.368590549	PASS
OSTN	3	191199241	191265615	-0.627320105	PASS
OTC	23	38352545	38421450	-0.012567603	PASS
OTOA	16	21663971	21761935	0.069936844	PASS
OTOF	2	26457203	26558698	0.040498426	PASS
OTOG	11	17547373	17647150	-0.405444717	PASS
OTOGL	12	80099537	80380879	0.202141228	PASS
OTOL1	3	161496808	161503942	0.318278996	suppress_segment_too_large
OTOP1	4	4188803	4226889	0.279089364	PASS
OTOP2	17	74924275	74933912	0.088516311	PASS
OTOP3	17	74935719	74949992	0.088516311	PASS
OTOR	20	16748358	16770062	-0.168668583	PASS
OTOS	2	240139026	240144562	0.025928102	PASS
OTP	5	77628712	77639688	-0.293443042	PASS
OTUB1	11	63985853	64001811	0.182439925	suppress_segment_too_large
OTUB2	14	94026329	94048930	-0.192197564	PASS
OTUD1	10	23439458	23442390	0.039811807	PASS
OTUD3	1	19882513	19912945	0.033763446	PASS

OTUD4	4	145110838	145180161	-0.011382299	PASS
OTUD5	23	48922028	48958386	-0.012567603	PASS
OTUD6A	23	70062491	70064179	-0.012567603	PASS
OTUD6B	8	91070196	91087095	0.279445683	PASS
OTUD7A	15	31475398	31870789	-0.396255771	PASS
OTUD7B	1	149937812	150010676	0.103015788	PASS
OTULIN	5	14664664	14699711	0.055007813	PASS
OTULINL	5	14581775	14615007	0.055007813	PASS
OTX1	2	63050057	63057836	-0.372959126	PASS
OTX2	14	56799905	56810479	0.060212819	PASS
OVCA2	17	2041936	2043430	0.128406487	PASS
OVCH1	12	29412474	29497686	0.362961408	suppress_segment_too_large
OVCH2	11	7689438	7706421	-0.405444717	PASS
OVGP1	1	111414314	111427777	0.033763446	PASS
OVOL1	11	65787022	65797219	0.182439925	suppress_segment_too_large
OVOL2	20	17956979	18059188	-0.168668583	PASS
OVOL3	19	36111151	36113711	0.093487731	suppress_segment_too_large
OXA1L	14	22766522	22773041	0.060212819	PASS
OXCT1	5	41730065	41870519	-0.293443042	PASS
OXCT2	1	39769523	39771348	0.033763446	PASS
OXER1	2	42762481	42764261	0.040498426	PASS
OXGR1	13	96985719	96994730	-0.390786075	PASS
OXLD1	17	81665036	81666635	0.088516311	PASS
OXNAD1	3	16265160	16350299	0.311018244	suppress_segment_too_large
OXR1	8	106359476	106752694	0.279445683	PASS
OXSM	3	25782917	25794534	0.311018244	suppress_segment_too_large
OXSR1	3	38165089	38255488	-0.234617007	PASS
OXT	20	3071620	3072517	-0.168668583	PASS
OXTR	3	8750408	8769628	0.311018244	suppress_segment_too_large
P2RX1	17	3896592	3916500	0.128406487	PASS
P2RX2	12	132618776	132622386	0.270848837	PASS
P2RX3	11	57338374	57370600	-0.129266491	PASS
P2RX4	12	121209857	121234106	0.202141228	PASS
P2RX5	17	3672199	3696404	0.128406487	PASS
P2RX5-TA	17	3663063	3696194	0.128406487	PASS
P2RX6	22	21009808	21028830	-0.575930959	PASS
P2RX7	12	121132819	121188032	0.202141228	PASS
P2RY1	3	152834693	152841439	0.318278996	suppress_segment_too_large
P2RY10	23	78945332	78961954	-0.012567603	PASS
P2RY11	19	10111538	10115372	0.093487731	suppress_segment_too_large
P2RY12	3	151337380	151384812	0.318278996	suppress_segment_too_large
P2RY13	3	151326312	151329548	0.318278996	suppress_segment_too_large
P2RY14	3	151212117	151278467	0.318278996	suppress_segment_too_large
P2RY2	11	73218298	73236352	0.062969153	PASS
P2RY4	23	70258170	70259764	-0.012567603	PASS
P2RY6	11	73264505	73298617	0.062969153	PASS

P2RY8	23	1462572	1537107	-0.012567603	PASS
P3H1	1	42746335	42767084	0.033763446	PASS
P3H2	3	189956728	190122437	0.318278996	suppress_segment_too_large
P3H3	12	6828410	6839851	-0.086128028	PASS
P3H4	17	41801947	41812604	0.060555011	PASS
P4HA1	10	73007217	73096974	0.072405807	PASS
P4HA2	5	132191838	132295315	-0.293443042	PASS
P4HA3	11	74235801	74311657	0.062969153	PASS
P4HB	17	81843159	81860694	0.088516311	PASS
P4HTM	3	48989886	49007154	-0.234617007	PASS
PA2G4	12	56104319	56113907	-0.202191512	PASS
PAAF1	11	73876699	73931124	0.062969153	PASS
PABPC1	8	100685816	100722809	0.279445683	PASS
PABPC1L	20	44910062	44959035	-0.168668583	PASS
PABPC1L2	23	73077276	73079512	-0.012567603	PASS
PABPC3	13	25095868	25099254	-0.390786075	PASS
PABPC4	1	39560816	39576790	0.033763446	PASS
PABPC4L	4	134196333	134201748	-0.011382299	PASS
PABPC5	23	91434595	91438584	-0.012567603	PASS
PABPN1	14	23321289	23326185	0.060212819	PASS
PABPN1L	16	88863333	88866660	-0.371357732	PASS
PACRG	6	162727132	163315492	-0.035448111	PASS
PACRGL	4	20696282	20752907	0.279089364	PASS
PACS1	11	66070363	66244747	0.182439925	suppress_segment_too_large
PACS2	14	105300563	105398147	-0.192197564	PASS
PACSIN1	6	34466061	34535231	0.048820648	PASS
PACSIN2	22	42835412	43015145	-0.575930959	PASS
PACSIN3	11	47177525	47186443	0.117376172	PASS
PADI1	1	17205126	17246005	0.033763446	PASS
PADI2	1	17066761	17119435	0.033763446	PASS
PADI3	1	17249098	17284233	0.033763446	PASS
PADI4	1	17308195	17364004	0.033763446	PASS
PADI6	1	17372196	17401699	0.033763446	PASS
PAEP	9	135561756	135566955	0.365190713	suppress_segment_too_large
PAF1	19	39385852	39391195	0.093487731	suppress_segment_too_large
PAFAH1B	17	2593210	2685615	0.128406487	PASS
PAFAH1B2	11	117144267	117176894	-0.356188624	PASS
PAFAH1B3	19	42297033	42303546	0.093487731	suppress_segment_too_large
PAFAH2	1	25959767	25998157	0.033763446	PASS
PAG1	8	80967810	81112068	0.279445683	PASS
PAGE1	23	49687450	49695993	-0.012567603	PASS
PAGE2	23	55089008	55092842	-0.012567603	PASS
PAGE2B	23	55075063	55078909	-0.012567603	PASS
PAGE3	23	55258412	55264846	-0.012567603	PASS
PAGE4	23	49829260	49833973	-0.012567603	PASS
PAGE5	23	55220355	55224108	-0.012567603	PASS

PAGR1	16	29815952	29820117	0.069936844	PASS
PAH	12	102836885	102958410	0.202141228	PASS
PAICS	4	56435741	56464579	-0.011382299	PASS
PAIP1	5	43526267	43557758	-0.293443042	PASS
PAIP2	5	139341587	139369720	-0.293443042	PASS
PAIP2B	2	71182739	71227083	-0.372959126	PASS
PAK1	11	77321707	77474635	0.062969153	PASS
PAK1IP1	6	10694695	10709782	0.048820648	PASS
PAK2	3	196739857	196832647	0.326834516	PASS
PAK3	23	110944285	111227361	-0.012567603	PASS
PAK4	19	39125770	39182816	0.093487731	suppress_segment_too_large
PAK5	20	9537389	9839041	-0.168668583	PASS
PAK6	15	40238759	40277487	-0.396255771	PASS
PALB2	16	23603160	23641310	0.069936844	PASS
PALD1	10	70478821	70568449	0.072405807	PASS
PALLD	4	168497066	168928457	-0.011382299	PASS
PALM	19	708939	748329	0.079632875	PASS
PALM2	9	109640788	109946703	0.365190713	suppress_segment_too_large
PALM2-AI	9	109780309	110172512	0.365190713	suppress_segment_too_large
PALM3	19	14053365	14059159	0.093487731	suppress_segment_too_large
PALMD	1	99645943	99694541	0.033763446	PASS
PAM	5	102753981	103031105	-0.293443042	PASS
PAM16	16	4331549	4355607	0.069936844	PASS
PAMR1	11	35431823	35530300	-0.405444717	PASS
PAN2	12	56316223	56334053	-0.202191512	PASS
PAN3	13	28138506	28295335	-0.390786075	PASS
PANK1	10	89579497	89645572	-0.39678585	PASS
PANK2	20	3888839	3929882	-0.168668583	PASS
PANK3	5	168548495	168579600	-0.150979337	PASS
PANK4	1	2508533	2526628	0.373964873	suppress_segment_too_large
PANO1	11	797511	799190	-0.333835828	PASS
PANX1	11	94128928	94181972	0.062969153	PASS
PANX2	22	50170731	50180294	-0.808211634	PASS
PANX3	11	124611490	124620356	-0.949752196	PASS
PAOX	10	133379234	133391694	0.063874692	PASS
PAPLN	14	73237497	73274640	0.060212819	PASS
PAPOLA	14	96501433	96567111	-0.192197564	PASS
PAPOLB	7	4857733	4861994	-0.69513118	PASS
PAPOLG	2	60756230	60802085	-0.372959126	PASS
PAPPA	9	116153804	116402322	0.365190713	suppress_segment_too_large
PAPPA2	1	176463171	176845605	-0.027073548	PASS
PAPSS1	4	107590276	107720452	-0.011382299	PASS
PAPSS2	10	87659613	87747705	-1.64589449	suppress_large_homdel
PAQR3	4	78887127	78939438	-0.011382299	PASS
PAQR4	16	2969245	2973489	0.069936844	PASS
PAQR5	15	69298947	69407780	-0.697600509	PASS

PAQR6	1	156243321	156248117	0.103015788	PASS
PAQR7	1	25861210	25871253	0.033763446	PASS
PAQR8	6	52361421	52407777	0.048820648	PASS
PAQR9	3	142949164	142963682	0.318278996	suppress_segment_too_large
PARD3	10	34109560	34815325	0.039811807	PASS
PARD3B	2	204545793	205620162	0.025928102	PASS
PARD6A	16	67660946	67662778	-0.371357732	PASS
PARD6B	20	50731544	50756795	-0.168668583	PASS
PARD6G	18	80157232	80247546	-0.376397843	PASS
PARG	10	49818279	49970203	-0.404852538	PASS
PARK7	1	7954291	7985505	0.373964873	suppress_segment_too_large
PARL	3	183829271	183884933	0.318278996	suppress_segment_too_large
PARM1	4	74933095	75050115	-0.011382299	PASS
PARN	16	14435701	14632728	0.069936844	PASS
PARP1	1	226360691	226408079	-0.256698369	PASS
PARP10	8	143977153	144012772	0.307788765	PASS
PARP11	12	3791047	3873448	-0.086128028	PASS
PARP12	7	140023744	140063721	-0.388946609	PASS
PARP14	3	122680618	122730840	0.313454204	suppress_segment_too_large
PARP15	3	122577602	122639047	0.313454204	suppress_segment_too_large
PARP16	15	65234460	65300618	-0.697600509	PASS
PARP2	14	20343582	20357905	0.060212819	PASS
PARP3	3	51942345	51948867	-0.234617007	PASS
PARP4	13	24420926	24512810	-0.390786075	PASS
PARP6	15	72241181	72272999	-0.697600509	PASS
PARP8	5	50665899	50846522	-0.293443042	PASS
PARP9	3	122527924	122564577	0.313454204	suppress_segment_too_large
PARPBP	12	102120185	102197520	0.202141228	PASS
PARS2	1	54756898	54764514	0.033763446	PASS
PARVA	11	12377185	12535356	-0.405444717	PASS
PARVB	22	43999211	44172949	-0.808211634	PASS
PARVG	22	44172956	44219533	-0.808211634	PASS
PASD1	23	151563622	151676739	-0.012567603	PASS
PASK	2	241106099	241150264	0.025928102	PASS
PATE1	11	125746293	125749867	-0.419612865	PASS
PATE2	11	125776113	125778819	-0.419612865	PASS
PATE3	11	125788111	125791600	-0.419612865	PASS
PATE4	11	125833316	125840069	-0.419612865	PASS
PATJ	1	61742406	62178675	0.033763446	PASS
PATL1	11	59636716	59668980	-0.129266491	PASS
PATL2	15	44665732	44711316	-0.396255771	PASS
PATZ1	22	31325804	31346232	-0.575930959	PASS
PAWR	12	79574979	79691097	0.202141228	PASS
PAX1	20	21705659	21718486	-0.168668583	PASS
PAX2	10	100735603	100829941	-0.367947924	PASS
PAX3	2	222199888	222298996	0.025928102	PASS

PAX4	7	127610292	127618114	-0.388946609	PASS
PAX5	9	36833275	37034185	-0.310444659	PASS
PAX6	11	31784779	31818062	-0.405444717	PASS
PAX7	1	18631006	18748866	0.033763446	PASS
PAX8	2	113215997	113278950	-0.010901494	PASS
PAX9	14	36657568	36679715	0.060212819	PASS
PAXBP1	21	32733899	32771858	0.12860881	suppress_segment_too_large
PAXIP1	7	154943687	155003084	-0.411415677	PASS
PAXX	9	136992418	136993984	0.365190713	suppress_segment_too_large
PBDC1	23	76172936	76178204	-0.012567603	PASS
PBK	8	27809620	27838095	-0.345962679	PASS
PBLD	10	68282660	68333049	0.072405807	PASS
PBOV1	6	138215986	138218491	-0.035448111	PASS
PBRM1	3	52545352	52685917	-0.234617007	PASS
PBX1	1	164555584	164899296	-0.027073548	PASS
PBX2	6	32184741	32190186	0.048820648	PASS
PBX3	9	125747345	125967377	0.365190713	suppress_segment_too_large
PBX4	19	19561707	19618916	0.093487731	suppress_segment_too_large
PBXIP1	1	154944076	154956123	0.103015788	PASS
PC	11	66848233	66958376	0.182439925	suppress_segment_too_large
PCARE	2	29060976	29074261	0.040498426	PASS
PCBD1	10	70882280	70888784	0.072405807	PASS
PCBD2	5	134904906	135007959	-0.293443042	PASS
PCBP1	2	70087454	70089203	-0.372959126	PASS
PCBP2	12	53452102	53481162	-0.202191512	PASS
PCBP3	21	45643694	45942454	-0.064425456	suppress_segment_too_large
PCBP4	3	51957454	51974016	-0.234617007	PASS
PCCA	13	100089015	100530437	-0.390786075	PASS
PCCB	3	136250306	136337896	0.313454204	suppress_segment_too_large
PCDH1	5	141853111	141879246	-0.293443042	PASS
PCDH10	4	133149315	133208606	-0.011382299	PASS
PCDH11X	23	91779261	92623230	-0.012567603	PASS
PCDH12	5	141943585	141969741	-0.293443042	PASS
PCDH15	10	53802771	55627942	-0.404852538	PASS
PCDH17	13	57631810	57729311	-0.390786075	PASS
PCDH18	4	137518918	137532494	-0.011382299	PASS
PCDH19	23	100291644	100410273	-0.012567603	PASS
PCDH20	13	61409685	61415522	-0.390786075	PASS
PCDH7	4	30720415	31146805	-0.011382299	PASS
PCDH8	13	52842889	52848641	-0.390786075	PASS
PCDH9	13	66302834	67230445	-0.390786075	PASS
PCDHA1	5	140786136	141012347	-0.293443042	PASS
PCDHA10	5	140855883	141012344	-0.293443042	PASS
PCDHA11	5	140868183	141012344	-0.293443042	PASS
PCDHA12	5	140875302	141012344	-0.293443042	PASS
PCDHA13	5	140882208	141012344	-0.293443042	PASS

PCDHA2	5	140794852	141012344	-0.293443042	PASS
PCDHA3	5	140801028	141012344	-0.293443042	PASS
PCDHA4	5	140806929	141012344	-0.293443042	PASS
PCDHA5	5	140821604	141012344	-0.293443042	PASS
PCDHA6	5	140827958	141012344	-0.293443042	PASS
PCDHA7	5	140834248	141012344	-0.293443042	PASS
PCDHA8	5	140841187	141012344	-0.293443042	PASS
PCDHA9	5	140847463	141012344	-0.293443042	PASS
PCDHAC1	5	140926369	141012344	-0.293443042	PASS
PCDHAC2	5	140966235	141012344	-0.293443042	PASS
PCDHB1	5	141051135	141059344	-0.293443042	PASS
PCDHB10	5	141192353	141195642	-0.293443042	PASS
PCDHB11	5	141199582	141203779	-0.293443042	PASS
PCDHB12	5	141208697	141212571	-0.293443042	PASS
PCDHB13	5	141213919	141218979	-0.293443042	PASS
PCDHB14	5	141222932	141227759	-0.293443042	PASS
PCDHB15	5	141245349	141249365	-0.293443042	PASS
PCDHB16	5	141181399	141186399	-0.293443042	PASS
PCDHB2	5	141094578	141098703	-0.293443042	PASS
PCDHB3	5	141100473	141103827	-0.293443042	PASS
PCDHB4	5	141121799	141125623	-0.293443042	PASS
PCDHB5	5	141135218	141138625	-0.293443042	PASS
PCDHB6	5	141150022	141153287	-0.293443042	PASS
PCDHB7	5	141172619	141176383	-0.293443042	PASS
PCDHB8	5	141177790	141180529	-0.293443042	PASS
PCDHB9	5	141187127	141191541	-0.293443042	PASS
PCDHGA1	5	141330571	141512981	-0.293443042	PASS
PCDHGA1	5	141412987	141512979	-0.293443042	PASS
PCDHGA1	5	141421047	141512979	-0.293443042	PASS
PCDHGA1	5	141430589	141512979	-0.293443042	PASS
PCDHGA2	5	141338760	141512979	-0.293443042	PASS
PCDHGA3	5	141343829	141512979	-0.293443042	PASS
PCDHGA4	5	141355025	141512979	-0.293443042	PASS
PCDHGA5	5	141364232	141512979	-0.293443042	PASS
PCDHGA6	5	141373914	141512979	-0.293443042	PASS
PCDHGA7	5	141382739	141512979	-0.293443042	PASS
PCDHGA8	5	141390157	141512979	-0.293443042	PASS
PCDHGA9	5	141402932	141512979	-0.293443042	PASS
PCDHGB1	5	141350102	141512979	-0.293443042	PASS
PCDHGB2	5	141360042	141512979	-0.293443042	PASS
PCDHGB3	5	141370264	141512979	-0.293443042	PASS
PCDHGB4	5	141387698	141512979	-0.293443042	PASS
PCDHGB5	5	141397987	141512979	-0.293443042	PASS
PCDHGB6	5	141408021	141512979	-0.293443042	PASS
PCDHGB7	5	141417645	141512979	-0.293443042	PASS
PCDHGC3	5	141475947	141512979	-0.293443042	PASS

PCDHGC4	5	141484997	141512979	-0.293443042	PASS
PCDHGC5	5	141489121	141512979	-0.293443042	PASS
PCED1A	20	2835314	2841190	-0.168668583	PASS
PCED1B	12	47079603	47236662	-0.202191512	PASS
PCF11	11	83156988	83187451	0.062969153	PASS
PCGF1	2	74505043	74508580	-0.372959126	PASS
PCGF2	17	38733897	38749817	0.060555011	PASS
PCGF3	4	705748	770640	0.279089364	PASS
PCGF5	10	91163012	91284331	-0.39678585	PASS
PCGF6	10	103302796	103351144	-0.367947924	PASS
PCID2	13	113177539	113208715	-0.390786075	PASS
PCIF1	20	45934628	45948023	-0.168668583	PASS
PCK1	20	57561080	57568112	-0.168668583	PASS
PCK2	14	24094053	24110598	0.060212819	PASS
PCLAF	15	64364311	64387687	-0.697600509	PASS
PCLO	7	82754013	83162930	-0.262778904	PASS
PCM1	8	17922840	18029944	-0.345962679	PASS
PCMT1	6	149749443	149811420	-0.035448111	PASS
PCMTD1	8	51817575	51899186	-0.201142258	PASS
PCMTD2	20	64255695	64287821	-0.168668583	PASS
PCNA	20	5114953	5126626	-0.168668583	PASS
PCNP	3	101574095	101594437	0.313454204	suppress_segment_too_large
PCNT	21	46324122	46445769	-0.064425456	suppress_segment_too_large
PCNX1	14	70907405	71115382	0.060212819	PASS
PCNX2	1	232983435	233295713	-0.256698369	PASS
PCNX3	11	65615773	65637439	0.182439925	suppress_segment_too_large
PCNX4	14	60091911	60169133	0.060212819	PASS
PCOLCE	7	100602177	100608175	-0.262778904	PASS
PCOLCE2	3	142815922	142889206	0.318278996	suppress_segment_too_large
PCP2	19	7631611	7633748	0.079632875	PASS
PCP4	21	39867317	39929397	-0.064425456	suppress_segment_too_large
PCP4L1	1	161258727	161285450	-0.027073548	PASS
PCSK1	5	96390415	96434143	-0.293443042	PASS
PCSK1N	23	48831094	48835633	-0.012567603	PASS
PCSK2	20	17226107	17484578	-0.168668583	PASS
PCSK4	19	1481428	1490752	0.079632875	PASS
PCSK5	9	75890644	76362339	0.365190713	suppress_segment_too_large
PCSK6	15	101297142	101525202	-0.697600509	PASS
PCSK7	11	117204337	117232525	-0.356188624	PASS
PCSK9	1	55039548	55064852	0.033763446	PASS
PCTP	17	55750979	55842830	0.088516311	PASS
PCYOX1	2	70257386	70281191	-0.372959126	PASS
PCYOX1L	5	149358007	149369653	-0.293443042	PASS
PCYT1A	3	196214222	196287957	0.326834516	PASS
PCYT1B	23	24558087	24672677	-0.012567603	PASS
PCYT2	17	81900965	81911464	0.088516311	PASS

PDAP1	7	99392048	99408829	-0.262778904	PASS
PDC	1	186443566	186461122	-0.027073548	PASS
PDCD10	3	167683298	167734939	0.318278996	suppress_segment_too_large
PDCD11	10	103396626	103446292	-0.367947924	PASS
PDCD1LG	9	5510570	5571254	-0.310444659	PASS
PDCD2	6	170575295	170584692	-0.035448111	PASS
PDCD2L	19	34404384	34426168	0.093487731	suppress_segment_too_large
PDCD4	10	110871795	110900006	0.063874692	PASS
PDCD5	19	32581068	32587452	0.093487731	suppress_segment_too_large
PDCD6	5	271621	353856	0.055007813	PASS
PDCD6IP	3	33798352	33869707	0.311018244	suppress_segment_too_large
PDCD7	15	65117379	65133836	-0.697600509	PASS
PDCL	9	122798389	122828631	0.365190713	suppress_segment_too_large
PDCL2	4	55556525	55592212	-0.011382299	PASS
PDCL3	2	100562690	100576735	0.048238121	PASS
PDE10A	6	165327287	165988078	-0.035448111	PASS
PDE11A	2	177623252	178108339	0.039726562	PASS
PDE12	3	57556276	57566844	-0.234617007	PASS
PDE1A	2	182140036	182523192	0.039726562	PASS
PDE1B	12	54549350	54579239	-0.202191512	PASS
PDE1C	7	31751179	32299329	-0.69513118	PASS
PDE2A	11	72576141	72674591	0.062969153	PASS
PDE3A	12	20369245	20684381	0.362961408	suppress_segment_too_large
PDE3B	11	14643723	14872044	-0.405444717	PASS
PDE4A	19	10416773	10469631	0.093487731	suppress_segment_too_large
PDE4B	1	65792514	66374579	0.033763446	PASS
PDE4C	19	18208652	18248200	0.093487731	suppress_segment_too_large
PDE4D	5	58969038	60522120	-0.293443042	PASS
PDE4DIP	1	148808181	149048286	-0.157385092	PASS
PDE5A	4	119494395	119628991	-0.011382299	PASS
PDE6A	5	149857955	149944793	-0.293443042	PASS
PDE6B	4	625584	670782	0.279089364	PASS
PDE6C	10	93612588	93666010	-0.39678585	PASS
PDE6D	2	231732425	231786272	0.025928102	PASS
PDE6G	17	81650459	81663112	0.088516311	PASS
PDE6H	12	14973022	14981865	0.362961408	suppress_segment_too_large
PDE7A	8	65717510	65842322	-0.201142258	PASS
PDE7B	6	135851696	136195574	-0.035448111	PASS
PDE8A	15	84980440	85139145	-0.697600509	PASS
PDE8B	5	77210449	77429807	-0.293443042	PASS
PDE9A	21	42653636	42775509	-0.064425456	suppress_segment_too_large
PDF	16	69328621	69330595	-0.371357732	PASS
PDGFA	7	497258	520296	-0.69513118	PASS
PDGFB	22	39223359	39244751	-0.575930959	PASS
PDGFC	4	156760454	156971394	-0.011382299	PASS
PDGFD	11	103907186	104164379	0.062969153	PASS

PDGFRA	4	54229097	54298247	-0.011382299	PASS
PDGFRB	5	150113837	150155872	-0.293443042	PASS
PDGFRL	8	17576433	17644071	-0.345962679	PASS
PDHA1	23	19343893	19361705	-0.012567603	PASS
PDHA2	4	95840019	95841474	-0.011382299	PASS
PDHB	3	58427630	58433857	-0.234617007	PASS
PDHX	11	34915829	35020591	-0.405444717	PASS
PDIA2	16	283152	287215	0.069936844	PASS
PDIA3	15	43746392	43773279	-0.396255771	PASS
PDIA4	7	149003062	149028641	-0.388946609	PASS
PDIA5	3	123067062	123225227	0.313454204	suppress_segment_too_large
PDIA6	2	10783391	10837977	0.040498426	PASS
PDIK1L	1	26111165	26125543	0.033763446	PASS
PDILT	16	20359170	20404737	0.069936844	PASS
PDK1	2	172555373	172608669	0.039726562	PASS
PDK2	17	50094737	50112152	0.088516311	PASS
PDK3	23	24465221	24541862	-0.012567603	PASS
PDK4	7	95583499	95596491	-0.262778904	PASS
PDLIM1	10	95237572	95291024	-0.39678585	PASS
PDLIM2	8	22578279	22598025	-0.345962679	PASS
PDLIM3	4	185500660	185535612	-0.462744716	PASS
PDLIM4	5	132257671	132273454	-0.293443042	PASS
PDLIM5	4	94451857	94668227	-0.011382299	PASS
PDLIM7	5	177483394	177497606	-0.150979337	PASS
PDP1	8	93857807	93926066	0.279445683	PASS
PDP2	16	66878589	66895754	-0.371357732	PASS
PDPK1	16	2537964	2603188	0.069936844	PASS
PDPN	1	13583465	13617957	0.033763446	PASS
PDPR	16	70113626	70162537	-0.371357732	PASS
PDRG1	20	31944342	31952092	-0.168668583	PASS
PDS5A	4	39822863	39977956	-0.011382299	PASS
PDS5B	13	32586427	32778019	-0.390786075	PASS
PDSS1	10	26697659	26746798	0.039811807	PASS
PDSS2	6	107152557	107459564	-0.368590549	PASS
PDX1	13	27920020	27926231	-0.390786075	PASS
PDXDC1	16	14974591	15139339	0.069936844	PASS
PDXK	21	43719094	43762307	-0.064425456	suppress_segment_too_large
PDXP	22	37658727	37666934	-0.575930959	PASS
PDYN	20	1978757	1994285	-0.168668583	PASS
PDZD11	23	70286595	70290514	-0.012567603	PASS
PDZD2	5	31639410	32110931	0.055007813	PASS
PDZD3	11	119185457	119190223	-0.356188624	PASS
PDZD4	23	153802166	153830565	-0.012567603	PASS
PDZD7	10	101007683	101032295	-0.367947924	PASS
PDZD8	10	117277274	117375467	0.063874692	PASS
PDZD9	16	21983865	22001110	0.069936844	PASS

PDZK1	1	145670852	145708148	-0.157385092	PASS
PDZK1IP1	1	47183593	47191044	0.033763446	PASS
PDZRN3	3	73382433	73624940	-0.234617007	PASS
PDZRN4	12	41188448	41574724	-0.202191512	PASS
PEA15	1	160205337	160215376	-0.027073548	PASS
PEAK1	15	77100656	77420144	-0.697600509	PASS
PEAK3	19	2274622	2282176	0.079632875	PASS
PEAR1	1	156893698	156916434	0.103015788	PASS
PEBP1	12	118135858	118145584	0.202141228	PASS
PEBP4	8	22713251	23000000	-0.345962679	PASS
PECAM1	17	64319415	64413776	0.088516311	PASS
PECR	2	215996329	216082955	0.025928102	PASS
PEF1	1	31629862	31644896	0.033763446	PASS
PEG10	7	94656325	94669695	-0.262778904	PASS
PEG3	19	56810077	56840728	-0.180829161	PASS
PELI1	2	64092652	64144454	-0.372959126	PASS
PELI2	14	56117814	56301526	0.060212819	PASS
PELI3	11	66466327	66477337	0.182439925	suppress_segment_too_large
PELO	5	52787940	52804046	-0.293443042	PASS
PELP1	17	4669774	4704337	0.128406487	PASS
PEMT	17	17505563	17591708	0.024610076	PASS
PENK	8	56436674	56446734	-0.201142258	PASS
PEPD	19	33386950	33521794	0.093487731	suppress_segment_too_large
PER1	17	8140472	8156506	0.128406487	PASS
PER2	2	238244038	238290102	0.025928102	PASS
PER3	1	7784320	7845177	0.373964873	suppress_segment_too_large
PERM1	1	975204	982093	0.373964873	suppress_segment_too_large
PERP	6	138088505	138107511	-0.035448111	PASS
PES1	22	30576625	30607083	-0.575930959	PASS
PET100	19	7629737	7631956	0.079632875	PASS
PET117	20	18137873	18143169	-0.168668583	PASS
PEX1	7	92487020	92528531	-0.262778904	PASS
PEX10	1	2403964	2413797	0.373964873	suppress_segment_too_large
PEX11A	15	89677764	89690783	-0.697600509	PASS
PEX11B	1	145911350	145918837	-0.157385092	PASS
PEX11G	19	7476875	7497449	0.079632875	PASS
PEX12	17	35574795	35578863	0.060555011	PASS
PEX13	2	61017225	61051990	-0.372959126	PASS
PEX14	1	10472288	10630758	0.373964873	suppress_segment_too_large
PEX16	11	45909669	45918812	0.117376172	PASS
PEX19	1	160276812	160286348	-0.027073548	PASS
PEX2	8	76980258	77001044	-0.201142258	PASS
PEX26	22	18077920	18131138	-0.575930959	PASS
PEX3	6	143450807	143490010	-0.035448111	PASS
PEX5	12	7188685	7218574	-0.086128028	PASS
PEX5L	3	179794958	180037053	0.318278996	suppress_segment_too_large

PEX6	6	42963870	42979220	0.048820648	PASS
PEX7	6	136822564	136913937	-0.035448111	PASS
PF4	4	73981077	73982124	-0.011382299	PASS
PF4V1	4	73853189	73854155	-0.011382299	PASS
PFAS	17	8247618	8270491	0.128406487	PASS
PFDN1	5	140245039	140303121	-0.293443042	PASS
PFDN2	1	161100556	161118111	-0.027073548	PASS
PFDN4	20	54207847	54228052	-0.168668583	PASS
PFDN5	12	53295291	53299450	-0.202191512	PASS
PFDN6	6	33289302	33298401	0.048820648	PASS
PFKFB1	23	54932961	54998534	-0.012567603	PASS
PFKFB2	1	207034366	207081024	-0.256698369	PASS
PFKFB3	10	6144934	6254644	0.039811807	PASS
PFKFB4	3	48517684	48562015	-0.234617007	PASS
PFKL	21	44300051	44327376	-0.064425456	suppress_segment_too_large
PFKM	12	48105139	48146404	-0.202191512	PASS
PFKP	10	3066333	3137712	0.039811807	PASS
PFN1	17	4945652	4949061	0.128406487	PASS
PFN2	3	149964904	150050788	0.318278996	suppress_segment_too_large
PFN3	5	177400107	177400636	-0.150979337	PASS
PFN4	2	24115371	24123477	0.040498426	PASS
PGA3	11	61203307	61213098	0.182439925	suppress_segment_too_large
PGA5	11	61241042	61251448	0.182439925	suppress_segment_too_large
PGAM1	10	97426160	97433441	-0.367947924	PASS
PGAM2	7	44062727	44065587	-0.69513118	PASS
PGAM4	23	77968874	77969638	-0.012567603	PASS
PGAM5	12	132710819	132722734	0.270848837	PASS
PGAP1	2	196833004	196927796	0.025928102	PASS
PGAP2	11	3797724	3826371	-0.333835828	PASS
PGAP3	17	39671122	39696797	0.060555011	PASS
PGBD1	6	28281572	28302549	0.048820648	PASS
PGBD2	1	248906196	248919946	0.023554025	PASS
PGBD4	15	34102073	34108684	-0.396255771	PASS
PGBD5	1	230314482	230426371	-0.256698369	PASS
PGC	6	41736711	41754109	0.048820648	PASS
PGD	1	10398592	10420144	0.373964873	suppress_segment_too_large
PGF	14	74941834	74955784	-0.192197564	PASS
PGGHG	11	289135	296107	-0.333835828	PASS
PGGT1B	5	115204012	115262872	-0.293443042	PASS
PGK1	23	77910739	78129296	-0.012567603	PASS
PGK2	6	49785651	49787307	0.048820648	PASS
PGLS	19	17511629	17521288	0.093487731	suppress_segment_too_large
PGLYRP1	19	46019153	46023065	0.14996833	PASS
PGLYRP2	19	15468645	15498956	0.093487731	suppress_segment_too_large
PGLYRP3	1	153297862	153310718	0.103015788	PASS
PGLYRP4	1	153330120	153348840	0.103015788	PASS

PGM1	1	63593276	63660245	0.033763446	PASS
PGM2	4	37826633	37862937	-0.011382299	PASS
PGM2L1	11	74330318	74398473	0.062969153	PASS
PGM3	6	83161150	83193936	-0.368590549	PASS
PGM5	9	68328308	68531061	-0.310444659	PASS
PGP	16	2211997	2214807	0.069936844	PASS
PGPEP1	19	18340587	18369950	0.093487731	suppress_segment_too_large
PGPEP1L	15	98968230	99007795	-0.697600509	PASS
PGR	11	101029624	101130524	0.062969153	PASS
PGRMC1	23	119236245	119244466	-0.012567603	PASS
PGRMC2	4	128269237	128288829	-0.011382299	PASS
PGS1	17	78378640	78425114	0.088516311	PASS
PHACTR1	6	12716805	13290484	0.048820648	PASS
PHACTR2	6	143536845	143831185	-0.035448111	PASS
PHACTR3	20	59577509	59847711	-0.168668583	PASS
PHACTR4	1	28369582	28500369	0.033763446	PASS
PHAX	5	126600268	126627252	-0.293443042	PASS
PHB	17	49404049	49414905	0.088516311	PASS
PHB2	12	6965327	6970825	-0.086128028	PASS
PHC1	12	8913896	8941467	0.362961408	suppress_segment_too_large
PHC2	1	33323623	33431052	0.033763446	PASS
PHC3	3	170086732	170181749	0.318278996	suppress_segment_too_large
PHETA1	12	111360651	111369121	0.202141228	PASS
PHETA2	22	42074251	42079441	-0.575930959	PASS
PHEX	23	22032441	22251310	-0.012567603	PASS
PHF1	6	33410399	33416453	0.048820648	PASS
PHF10	6	169703905	169725566	-0.035448111	PASS
PHF11	13	49495610	49528987	-0.390786075	PASS
PHF12	17	28905250	28951771	0.060555011	PASS
PHF13	1	6613685	6624033	0.373964873	suppress_segment_too_large
PHF14	7	10973336	11169630	-0.69513118	PASS
PHF19	9	120855652	120894896	0.365190713	suppress_segment_too_large
PHF2	9	93576407	93679587	0.365190713	suppress_segment_too_large
PHF20	20	35771974	35950381	-0.168668583	PASS
PHF20L1	8	132775358	132848807	0.113969953	PASS
PHF21A	11	45929323	46121178	0.117376172	PASS
PHF21B	22	44881162	45009999	-0.808211634	PASS
PHF23	17	7235028	7239722	0.128406487	PASS
PHF24	9	34957608	34982544	-0.310444659	PASS
PHF3	6	63635820	63779336	0.048820648	PASS
PHF5A	22	41459717	41468725	-0.575930959	PASS
PHF6	23	134373253	134428791	-0.012567603	PASS
PHF7	3	52410657	52423641	-0.234617007	PASS
PHF8	23	53936676	54048958	-0.012567603	PASS
PHGDH	1	119648411	119744226	-0.157385092	PASS
PHGR1	15	40351033	40356434	-0.396255771	PASS

PHIP	6	78935867	79078236	-0.368590549	PASS
PHKA1	23	72578814	72714319	-0.012567603	PASS
PHKA2	23	18892300	18984598	-0.012567603	PASS
PHKB	16	47461123	47701523	0.069936844	PASS
PHKG1	7	56080283	56092996	-0.750061359	PASS
PHKG2	16	30748270	30761176	0.069936844	PASS
PHLDA1	12	76025447	76033932	0.202141228	PASS
PHLDA2	11	2928273	2929455	-0.333835828	PASS
PHLDA3	1	201464383	201469237	-0.256698369	PASS
PHLDB1	11	118606440	118658038	-0.356188624	PASS
PHLDB2	3	111732497	111976517	0.313454204	suppress_segment_too_large
PHLDB3	19	43474954	43504935	0.14996833	PASS
PHLPP1	18	62715450	62980433	-0.376397843	PASS
PHLPP2	16	71637835	71724701	-0.371357732	PASS
PHOSPHO	17	49223362	49230766	0.088516311	PASS
PHOSPHO	2	169694454	169701708	0.039726562	PASS
PHOX2A	11	72239077	72245664	0.062969153	PASS
PHOX2B	4	41744082	41748970	-0.011382299	PASS
PHPT1	9	136848724	136851027	0.365190713	suppress_segment_too_large
PHRF1	11	576486	612222	-0.333835828	PASS
PHTF1	1	113696831	113759489	0.033763446	PASS
PHTF2	7	77798792	77957503	-0.262778904	PASS
PHYH	10	13277796	13302412	0.039811807	PASS
PHYHD1	9	128920895	128942041	0.365190713	suppress_segment_too_large
PHYHIP	8	22219704	22232341	-0.345962679	PASS
PHYHIPL	10	59176590	59247774	0.072405807	PASS
PHYKPL	5	178208497	178232791	-0.150979337	PASS
PI15	8	74824534	74855029	-0.201142258	PASS
PI16	6	36948263	36964837	0.048820648	PASS
PI3	20	45174876	45176544	-0.168668583	PASS
PI4K2A	10	97640686	97676434	-0.367947924	PASS
PI4K2B	4	25233975	25279092	0.279089364	PASS
PI4KA	22	20707691	20859417	-0.575930959	PASS
PI4KB	1	151291797	151327715	0.103015788	PASS
PIANP	12	6693792	6700800	-0.086128028	PASS
PIAS1	15	68054179	68198603	-0.697600509	PASS
PIAS2	18	46803224	46920160	-0.376397843	PASS
PIAS3	1	145848522	145859836	-0.157385092	PASS
PIAS4	19	4007646	4039386	0.079632875	PASS
PIBF1	13	72782059	73016461	-0.390786075	PASS
PICALM	11	85957684	86069882	0.062969153	PASS
PICK1	22	38056311	38075701	-0.575930959	PASS
PID1	2	228850526	229271285	0.025928102	PASS
PIDD1	11	799179	809753	-0.333835828	PASS
PIEZO1	16	88715338	88785220	-0.371357732	PASS
PIEZO2	18	10666483	11148762	-0.052305056	suppress_segment_too_large

PIF1	15	64815632	64825668	-0.697600509	PASS
PIFO	1	111346288	111353013	0.033763446	PASS
PIGA	23	15319451	15335580	-0.012567603	PASS
PIGB	15	55318960	55355648	-0.697600509	PASS
PIGBOS1	15	55317184	55319161	-0.697600509	PASS
PIGC	1	172370189	172444086	-0.027073548	PASS
PIGF	2	46580937	46617119	0.040498426	PASS
PIGG	4	499210	540196	0.279089364	PASS
PIGH	14	67581955	67600287	0.060212819	PASS
PIGK	1	77088990	77219430	0.033763446	PASS
PIGL	17	16217191	16351797	0.024610076	PASS
PIGM	1	160024953	160031991	-0.027073548	PASS
PIGN	18	61905255	62187118	-0.376397843	PASS
PIGO	9	35088688	35096601	-0.310444659	PASS
PIGP	21	37059170	37073170	-0.064425456	suppress_segment_too_large
PIGQ	16	566995	584136	0.069936844	PASS
PIGR	1	206928518	206946466	-0.256698369	PASS
PIGS	17	28553383	28571872	0.060555011	PASS
PIGT	20	45416067	45456934	-0.168668583	PASS
PIGU	20	34560542	34698790	-0.168668583	PASS
PIGV	1	26787472	26798398	0.033763446	PASS
PIGW	17	36535020	36539310	0.060555011	PASS
PIGX	3	196639775	196736007	0.326834516	PASS
PIGY	4	88521573	88521789	-0.011382299	PASS
PIGZ	3	196946343	196969060	0.326834516	PASS
PIH1D1	19	49446298	49453497	0.14996833	PASS
PIH1D2	11	112064010	112074274	-0.356188624	PASS
PIH1D3	23	107206632	107244243	-0.012567603	PASS
PIK3AP1	10	96593312	96720514	-0.367947924	PASS
PIK3C2A	11	17077730	17207983	-0.405444717	PASS
PIK3C2B	1	204422628	204494724	-0.256698369	PASS
PIK3C2G	12	18247614	18648416	0.362961408	suppress_segment_too_large
PIK3C3	18	41955206	42087830	-0.376397843	PASS
PIK3CA	3	179148114	179240093	0.318278996	suppress_segment_too_large
PIK3CB	3	138652699	138834938	0.313454204	suppress_segment_too_large
PIK3CD	1	9651732	9729114	0.373964873	suppress_segment_too_large
PIK3CG	7	106865278	106907145	-0.388946609	PASS
PIK3IP1	22	31281593	31292534	-0.575930959	PASS
PIK3R1	5	68215720	68301821	-0.293443042	PASS
PIK3R2	19	18153118	18170540	0.093487731	suppress_segment_too_large
PIK3R3	1	46040140	46133036	0.033763446	PASS
PIK3R4	3	130678935	130746829	0.313454204	suppress_segment_too_large
PIK3R5	17	8878911	8965712	0.128406487	PASS
PIK3R6	17	8802723	8867677	0.128406487	PASS
PIKFYVE	2	208266267	208358751	0.025928102	PASS
PILRA	7	100367530	100400099	-0.262778904	PASS

PILRB	7	100352176	100367733	-0.262778904	PASS
PIM1	6	37170203	37175426	0.048820648	PASS
PIM2	23	48913182	48919024	-0.012567603	PASS
PIM3	22	49960513	49964080	-0.808211634	PASS
PIMREG	17	6444415	6451469	0.128406487	PASS
PIN1	19	9835257	9849682	0.093487731	suppress_segment_too_large
PIN4	23	72181353	72302926	-0.012567603	PASS
PINK1	1	20633455	20651511	0.033763446	PASS
PINLYP	19	43576800	43583964	0.14996833	PASS
PINX1	8	10725399	10839884	-0.345962679	PASS
PIP	7	143132077	143139746	-0.388946609	PASS
PIP4K2A	10	22534849	22714555	0.039811807	PASS
PIP4K2B	17	38765689	38800126	0.060555011	PASS
PIP4K2C	12	57591174	57603418	-0.202191512	PASS
PIP4P1	14	20457719	20461612	0.060212819	PASS
PIP4P2	8	90993796	91041064	0.279445683	PASS
PIP5K1A	1	151197949	151249536	0.103015788	PASS
PIP5K1B	9	68705414	69009176	-0.310444659	PASS
PIP5K1C	19	3630183	3700479	0.079632875	PASS
PIP5KL1	9	127920879	127930797	0.365190713	suppress_segment_too_large
PIPOX	17	28950513	29057220	0.060555011	PASS
PIR	23	15384799	15493564	-0.012567603	PASS
PIRT	17	10822475	10838445	-0.139031004	PASS
PISD	22	31618491	31662432	-0.575930959	PASS
PITHD1	1	23778405	23788232	0.033763446	PASS
PITPNA	17	1517718	1562816	0.128406487	PASS
PITPNB	22	27851669	27920134	-0.575930959	PASS
PITPNC1	17	67377281	67697261	0.088516311	PASS
PITPNM1	11	67491768	67506263	0.182439925	suppress_segment_too_large
PITPNM2	12	122983480	123150015	0.202141228	PASS
PITPNM3	17	6451264	6556494	0.128406487	PASS
PITRM1	10	3137728	3172841	0.039811807	PASS
PITX1	5	135027735	135034813	-0.293443042	PASS
PITX2	4	110617423	110642123	-0.011382299	PASS
PITX3	10	102230186	102241474	-0.367947924	PASS
PIWIL1	12	130337887	130372637	-0.240609783	PASS
PIWIL2	8	22275297	22357563	-0.345962679	PASS
PIWIL3	22	24719034	24774720	-0.575930959	PASS
PIWIL4	11	94543840	94621421	0.062969153	PASS
PJA1	23	69160851	69165793	-0.012567603	PASS
PJA2	5	109334709	109409994	-0.293443042	PASS
PJVK	2	178451346	178461409	0.039726562	PASS
PKD1	16	2088710	2135898	0.069936844	PASS
PKD1L1	7	47740202	47948491	-0.69513118	PASS
PKD1L3	16	71929538	71999978	-0.371357732	PASS
PKD1P1	16	16317444	16350590	0.069936844	PASS

PKD2	4	88007668	88077777	-0.011382299	PASS
PKD2L1	10	100288154	100330486	-0.367947924	PASS
PKD2L2	5	137887968	137942747	-0.293443042	PASS
PKDCC	2	42048020	42058528	0.040498426	PASS
PKDREJ	22	46255663	46263355	-0.808211634	PASS
PKHD1	6	51615300	52087625	0.048820648	PASS
PKHD1L1	8	109362477	109530330	0.279445683	PASS
PKIA	8	78516139	78605267	0.279445683	PASS
PKIB	6	122471917	122726373	-0.368590549	PASS
PKIG	20	44531785	44624247	-0.168668583	PASS
PKLR	1	155289293	155301438	0.103015788	PASS
PKM	15	72199029	72231822	-0.697600509	PASS
PKMYT1	16	2968024	2980539	0.069936844	PASS
PKN1	19	14433053	14471867	0.093487731	suppress_segment_too_large
PKN2	1	88684222	88836255	0.033763446	PASS
PKN3	9	128702523	128720918	0.365190713	suppress_segment_too_large
PKNOX1	21	42974510	43033931	-0.064425456	suppress_segment_too_large
PKNOX2	11	125164687	125433389	-0.419612865	PASS
PKP1	1	201283452	201332993	-0.256698369	PASS
PKP2	12	32790745	32896840	0.362961408	suppress_segment_too_large
PKP3	11	392614	404908	-0.333835828	PASS
PKP4	2	158456964	158682879	0.039726562	PASS
PLA1A	3	119597842	119629811	0.313454204	suppress_segment_too_large
PLA2G10	16	14672545	14694669	0.069936844	PASS
PLA2G12A	4	109709989	109730077	-0.011382299	PASS
PLA2G12B	10	72935170	72954778	0.072405807	PASS
PLA2G15	16	68245304	68261062	-0.371357732	PASS
PLA2G16	11	63573195	63616883	0.182439925	suppress_segment_too_large
PLA2G1B	12	120322111	120327789	0.202141228	PASS
PLA2G2A	1	19975431	19980416	0.033763446	PASS
PLA2G2C	1	20161253	20177424	0.033763446	PASS
PLA2G2D	1	20111939	20119566	0.033763446	PASS
PLA2G2E	1	19920009	19923617	0.033763446	PASS
PLA2G2F	1	20139326	20150386	0.033763446	PASS
PLA2G3	22	31134809	31140607	-0.575930959	PASS
PLA2G4A	1	186828953	186988981	-0.027073548	PASS
PLA2G4B	15	41837775	41848147	-0.396255771	PASS
PLA2G4C	19	48047843	48110817	0.14996833	PASS
PLA2G4D	15	42067009	42094554	-0.396255771	PASS
PLA2G4E	15	41981582	42051190	-0.396255771	PASS
PLA2G4F	15	42139034	42156636	-0.396255771	PASS
PLA2G5	1	20028179	20091190	0.033763446	PASS
PLA2G6	22	38111495	38205690	-0.575930959	PASS
PLA2G7	6	46704201	46735693	0.048820648	PASS
PLA2R1	2	159932006	160062610	0.039726562	PASS
PLAA	9	26904083	26947463	-0.310444659	PASS

PLAC1	23	134565838	134764322	-0.012567603	PASS
PLAC8	4	83090048	83137075	-0.011382299	PASS
PLAC8L1	5	146084386	146104369	-0.293443042	PASS
PLAC9	10	80131682	80145359	0.072405807	PASS
PLAG1	8	56160904	56211324	-0.201142258	PASS
PLAGL1	6	143940300	144064599	-0.035448111	PASS
PLAGL2	20	32192503	32207791	-0.168668583	PASS
PLAT	8	42175233	42207724	-0.201142258	PASS
PLAU	10	73909177	73917497	0.072405807	PASS
PLAUR	19	43646095	43670547	0.14996833	PASS
PLB1	2	28457145	28643788	0.040498426	PASS
PLBD1	12	14503661	14568349	0.362961408	suppress_segment_too_large
PLBD2	12	113358566	113391625	0.202141228	PASS
PLCB1	20	8077251	8968360	-0.168668583	PASS
PLCB2	15	40278176	40307935	-0.396255771	PASS
PLCB3	11	64251523	64269150	0.182439925	suppress_segment_too_large
PLCB4	20	9068763	9481242	-0.168668583	PASS
PLCD1	3	38007496	38029762	-0.234617007	PASS
PLCD3	17	45108967	45133354	0.088516311	PASS
PLCD4	2	218607765	218637184	0.025928102	PASS
PLCE1	10	94030812	94332823	-0.39678585	PASS
PLCG1	20	41136960	41196801	-0.168668583	PASS
PLCG2	16	81739097	81962693	-0.371357732	PASS
PLCH1	3	155375580	155745067	0.318278996	suppress_segment_too_large
PLCH2	1	2425980	2505530	0.373964873	suppress_segment_too_large
PLCL1	2	197804702	198572581	0.025928102	PASS
PLCL2	3	16802651	17090594	0.311018244	suppress_segment_too_large
PLCXD1	23	276322	303356	-0.012567603	PASS
PLCXD2	3	111674676	111846447	0.313454204	suppress_segment_too_large
PLCXD3	5	41306954	41510628	-0.293443042	PASS
PLCZ1	12	18683169	18738100	0.362961408	suppress_segment_too_large
PLD1	3	171600405	171810950	0.318278996	suppress_segment_too_large
PLD2	17	4807096	4823434	0.128406487	PASS
PLD3	19	40348456	40380439	0.093487731	suppress_segment_too_large
PLD4	14	104924713	104937790	-0.192197564	PASS
PLD5	1	242082986	242524696	-0.648598641	PASS
PLD6	17	17200995	17206315	0.024610076	PASS
PLEC	8	143915147	143976734	0.307788765	PASS
PLEK	2	68365173	68397453	-0.372959126	PASS
PLEK2	14	67386983	67412200	0.060212819	PASS
PLEKHA1	10	122374696	122442602	0.063874692	PASS
PLEKHA2	8	38901235	38973909	-0.201142258	PASS
PLEKHA3	2	178480468	178516462	0.039726562	PASS
PLEKHA4	19	48837097	48868632	0.14996833	PASS
PLEKHA5	12	19129752	19376400	0.362961408	suppress_segment_too_large
PLEKHA6	1	204218851	204377665	-0.256698369	PASS

PLEKHA7	11	16777317	17014443	-0.405444717	PASS
PLEKHA8	7	30027404	30130483	-0.69513118	PASS
PLEKHB1	11	73646178	73662819	0.062969153	PASS
PLEKHB2	2	131104847	131353709	-0.475215623	PASS
PLEKHD1	14	69484692	69531551	0.060212819	PASS
PLEKHF1	19	29665056	29675457	0.093487731	suppress_segment_too_large
PLEKHF2	8	95133804	95156684	0.279445683	PASS
PLEKHG1	6	150599883	150843665	-0.035448111	PASS
PLEKHG2	19	39412585	39428415	0.093487731	suppress_segment_too_large
PLEKHG3	14	64704102	64750247	0.060212819	PASS
PLEKHG4	16	67277510	67289499	-0.371357732	PASS
PLEKHG4]	5	92151	189972	0.055007813	PASS
PLEKHG5	1	6466092	6520061	0.373964873	suppress_segment_too_large
PLEKHG6	12	6310436	6328506	-0.086128028	PASS
PLEKHG7	12	92702843	92772455	0.202141228	PASS
PLEKHH1	14	67533301	67589612	0.060212819	PASS
PLEKHH2	2	43637273	43767987	0.040498426	PASS
PLEKHH3	17	42667914	42676994	0.088516311	PASS
PLEKHJ1	19	2230084	2237704	0.079632875	PASS
PLEKHM1	17	45435900	45490749	0.088516311	PASS
PLEKHM2	1	15684332	15734769	0.033763446	PASS
PLEKHM3	2	207821288	208025560	0.025928102	PASS
PLEKHN1	1	966497	975865	0.373964873	suppress_segment_too_large
PLEKHO1	1	150149183	150164720	0.103015788	PASS
PLEKHO2	15	64841883	64868007	-0.697600509	PASS
PLEKHS1	10	113751454	113783429	0.063874692	PASS
PLET1	11	112248479	112260860	-0.356188624	PASS
PLG	6	160702238	160753315	-0.035448111	PASS
PLGLB1	2	87002559	87021852	-0.340781246	PASS
PLGLB2	2	87748087	87758793	-0.340781246	PASS
PLGRKT	9	5357973	5437878	-0.310444659	PASS
PLIN1	15	89664365	89679427	-0.697600509	PASS
PLIN2	9	19108375	19149290	-0.310444659	PASS
PLIN3	19	4838341	4867768	0.079632875	PASS
PLIN4	19	4502180	4518465	0.079632875	PASS
PLIN5	19	4522531	4535224	0.079632875	PASS
PLK1	16	23677656	23690367	0.069936844	PASS
PLK2	5	58453982	58460260	-0.293443042	PASS
PLK3	1	44800225	44805990	0.033763446	PASS
PLK4	4	127880861	127899195	-0.011382299	PASS
PLK5	19	1524074	1536046	0.079632875	PASS
PLLP	16	57248547	57284687	-0.371357732	PASS
PLN	6	118548298	118560730	-0.368590549	PASS
PLOD1	1	11934205	11975538	0.373964873	suppress_segment_too_large
PLOD2	3	146069440	146163653	0.318278996	suppress_segment_too_large
PLOD3	7	101205977	101218420	-0.388946609	PASS

PLP1	23	103773718	103792619	-0.012567603	PASS
PLP2	23	49171926	49175239	-0.012567603	PASS
PLPBP	8	37762593	37779767	-0.201142258	PASS
PLPP1	5	55424854	55535050	-0.293443042	PASS
PLPP2	19	281040	291504	0.079632875	PASS
PLPP3	1	56494747	56645301	0.033763446	PASS
PLPP4	10	120456954	120589855	0.063874692	PASS
PLPP5	8	38263130	38269243	-0.201142258	PASS
PLPP6	9	4662315	4665258	-0.310444659	PASS
PLPP7	9	131289459	131359022	0.365190713	suppress_segment_too_large
PLPPR1	9	101028709	101325135	0.365190713	suppress_segment_too_large
PLPPR2	19	11355386	11365698	0.093487731	suppress_segment_too_large
PLPPR3	19	812488	821977	0.079632875	PASS
PLPPR4	1	99263953	99309590	0.033763446	PASS
PLPPR5	1	98890245	99005032	0.033763446	PASS
PLRG1	4	154535006	154550435	-0.011382299	PASS
PLS1	3	142596387	142713664	0.318278996	suppress_segment_too_large
PLS3	23	115561174	115650861	-0.012567603	PASS
PLSCR1	3	146515180	146544864	0.318278996	suppress_segment_too_large
PLSCR2	3	146391421	146495991	0.318278996	suppress_segment_too_large
PLSCR3	17	7389727	7394843	0.128406487	PASS
PLSCR4	3	146192339	146251179	0.318278996	suppress_segment_too_large
PLSCR5	3	146576555	146606216	0.318278996	suppress_segment_too_large
PLTP	20	45898621	45912155	-0.168668583	PASS
PLVAP	19	17351448	17377350	0.093487731	suppress_segment_too_large
PLXDC1	17	39063303	39154394	0.060555011	PASS
PLXDC2	10	19816239	20289856	0.039811807	PASS
PLXNA1	3	126988594	127037392	0.313454204	suppress_segment_too_large
PLXNA2	1	208022242	208244320	-0.256698369	PASS
PLXNA3	23	154458281	154477779	-0.012567603	PASS
PLXNA4	7	132123332	132648688	-0.388946609	PASS
PLXNB1	3	48403854	48430051	-0.234617007	PASS
PLXNB2	22	50274979	50307627	-0.808211634	PASS
PLXNB3	23	153764196	153779346	-0.012567603	PASS
PLXNC1	12	94148723	94307675	0.202141228	PASS
PLXND1	3	129555175	129606818	0.313454204	suppress_segment_too_large
PM20D1	1	205828022	205850132	-0.256698369	PASS
PM20D2	6	89146050	89165565	-0.368590549	PASS
PMAIP1	18	59899948	59904306	-0.376397843	PASS
PMCH	12	102196459	102197845	0.202141228	PASS
PMEL	12	55954105	55973317	-0.202191512	PASS
PMEPA1	20	57648392	57711536	-0.168668583	PASS
PMF1	1	156212993	156240042	0.103015788	PASS
PMF1-BGI	1	156212982	156243332	0.103015788	PASS
PMFBP1	16	72112157	72176878	-0.371357732	PASS
PML	15	73994673	74047812	-0.697600509	PASS

PMM1	22	41576894	41589890	-0.575930959	PASS
PMM2	16	8788823	8849331	0.069936844	PASS
PMP2	8	81440326	81447523	0.279445683	PASS
PMP22	17	15229777	15265357	-0.139031004	PASS
PMPCA	9	136410570	136423761	0.365190713	suppress_segment_too_large
PMPCB	7	103297422	103329511	-0.388946609	PASS
PMS1	2	189784085	189877629	0.025928102	PASS
PMS2	7	5973239	6009125	-0.69513118	PASS
PMVK	1	154924734	154936991	0.103015788	PASS
PNCK	23	153669730	153689010	-0.012567603	PASS
PNISR	6	99398051	99425331	-0.368590549	PASS
PNKD	2	218270392	218346793	0.025928102	PASS
PNKP	19	49859882	49878351	0.14996833	PASS
PNLDC1	6	159800249	159820704	-0.035448111	PASS
PNLIP	10	116545931	116567855	0.063874692	PASS
PNLIPRP1	10	116590385	116609175	0.063874692	PASS
PNLIPRP3	10	116427867	116477957	0.063874692	PASS
PNMA1	14	73711783	73714372	0.060212819	PASS
PNMA2	8	26504686	26514092	-0.345962679	PASS
PNMA3	23	153056409	153060467	-0.012567603	PASS
PNMA5	23	152988824	152994127	-0.012567603	PASS
PNMA6A	23	153072482	153075018	-0.012567603	PASS
PNMA6E	23	153395640	153401420	-0.012567603	PASS
PNMA6F	23	153317681	153321822	-0.012567603	PASS
PNMA8A	19	46466491	46471563	0.14996833	PASS
PNMA8B	19	46486906	46496498	0.14996833	PASS
PNMT	17	39667981	39670475	0.060555011	PASS
PNN	14	39175183	39183218	0.060212819	PASS
PNO1	2	68157844	68176238	-0.372959126	PASS
PNOC	8	28316986	28343355	-0.345962679	PASS
PNP	14	20468954	20477094	0.060212819	PASS
PNPLA1	6	36243203	36312229	0.048820648	PASS
PNPLA2	11	818902	825573	-0.333835828	PASS
PNPLA3	22	43923739	43964488	-0.808211634	PASS
PNPLA4	23	7898247	7927739	-0.012567603	PASS
PNPLA5	22	43879678	43892013	-0.808211634	PASS
PNPLA6	19	7534004	7561764	0.079632875	PASS
PNPLA7	9	137459953	137550534	0.365190713	suppress_segment_too_large
PNPLA8	7	108470422	108569666	-0.388946609	PASS
PNPO	17	47941506	47949308	0.088516311	PASS
PNPT1	2	55634265	55693910	0.040498426	PASS
PNRC1	6	89080751	89085160	-0.368590549	PASS
PNRC2	1	23956839	23963462	0.033763446	PASS
POC1A	3	52075253	52154690	-0.234617007	PASS
POC1B	12	89419718	89526024	0.202141228	PASS
POC1B-GA	12	89519408	89526262	0.202141228	PASS

POC5	5	75674124	75717481	-0.293443042	PASS
PODN	1	53062052	53085502	0.033763446	PASS
PODNL1	19	13931187	13953392	0.093487731	suppress_segment_too_large
PODXL	7	131500262	131558217	-0.388946609	PASS
PODXL2	3	127629181	127672809	0.313454204	suppress_segment_too_large
POF1B	23	85277396	85379743	-0.012567603	PASS
POFUT1	20	32207880	32238667	-0.168668583	PASS
POFUT2	21	45263928	45287898	-0.064425456	suppress_segment_too_large
POGK	1	166839447	166856344	-0.027073548	PASS
POGLUT1	3	119468938	119494708	0.313454204	suppress_segment_too_large
POGZ	1	151402724	151459465	0.103015788	PASS
POLA1	23	24693919	24996986	-0.012567603	PASS
POLA2	11	65261762	65305589	0.182439925	suppress_segment_too_large
POLB	8	42338454	42371808	-0.201142258	PASS
POLD1	19	50384204	50418016	-0.016761391	PASS
POLD2	7	44114681	44124358	-0.69513118	PASS
POLD3	11	74493851	74669117	0.062969153	PASS
POLD4	11	67350777	67356972	0.182439925	suppress_segment_too_large
POLDIP2	17	28347177	28357522	0.060555011	PASS
POLDIP3	22	42583721	42614962	-0.575930959	PASS
POLE	12	132623753	132687365	0.270848837	PASS
POLE2	14	49643555	49688422	0.060212819	PASS
POLE3	9	113407235	113410672	0.365190713	suppress_segment_too_large
POLE4	2	74958492	74970128	-0.372959126	PASS
POLG	15	89305198	89334861	-0.697600509	PASS
POLG2	17	64477785	64497036	0.088516311	PASS
POLH	6	43576150	43615660	0.048820648	PASS
POLI	18	54269404	54321266	-0.376397843	PASS
POLK	5	75511756	75601144	-0.293443042	PASS
POLL	10	101578882	101588270	-0.367947924	PASS
POLM	7	44072247	44082540	-0.69513118	PASS
POLN	4	2071918	2242121	0.279089364	PASS
POLQ	3	121431427	121546641	0.313454204	suppress_segment_too_large
POLR1A	2	86020216	86106155	0.066915641	PASS
POLR1B	2	112541915	112577150	-0.010901494	PASS
POLR1C	6	43509702	43562419	0.048820648	PASS
POLR1D	13	27620742	27744237	-0.390786075	PASS
POLR1E	9	37485935	37503697	-0.310444659	PASS
POLR2A	17	7484366	7514616	0.128406487	PASS
POLR2B	4	56977722	57031168	-0.011382299	PASS
POLR2C	16	57462387	57472010	-0.371357732	PASS
POLR2D	2	127843551	127858157	-0.475215623	PASS
POLR2E	19	1086579	1095380	0.079632875	PASS
POLR2F	22	37952607	38041915	-0.575930959	PASS
POLR2G	11	62761544	62766710	0.182439925	suppress_segment_too_large
POLR2H	3	184361718	184368596	0.318278996	suppress_segment_too_large

POLR2I	19	36113710	36115346	0.093487731	suppress_segment_too_large
POLR2J	7	102473118	102478907	-0.388946609	PASS
POLR2J2	7	102665368	102671629	-0.388946609	PASS
POLR2J3	7	102537918	102572653	-0.388946609	PASS
POLR2K	8	100150584	100154002	0.279445683	PASS
POLR2L	11	837356	842545	-0.333835828	PASS
POLR2M	15	57706629	57782762	-0.697600509	PASS
POLR3A	10	77969251	78029545	0.072405807	PASS
POLR3B	12	106357658	106510198	0.202141228	PASS
POLR3C	1	145824088	145842505	-0.157385092	PASS
POLR3D	8	22245104	22254600	-0.345962679	PASS
POLR3E	16	22297375	22335103	0.069936844	PASS
POLR3F	20	18467127	18484643	-0.168668583	PASS
POLR3G	5	90471748	90514553	-0.293443042	PASS
POLR3GL	1	145964702	145978848	-0.157385092	PASS
POLR3H	22	41525804	41544606	-0.575930959	PASS
POLR3K	16	46407	53628	0.069936844	PASS
POLRMT	19	617224	633604	0.079632875	PASS
POM121	7	72879365	72951440	-0.262778904	PASS
POM121C	7	75416787	75486271	-0.262778904	PASS
POM121L1	7	53035642	53036924	-0.750061359	PASS
POM121L2	6	27285903	27312170	0.048820648	PASS
POMC	2	25160853	25168903	0.040498426	PASS
POMGNT1	1	46188682	46220305	0.033763446	PASS
POMGNT2	3	43079232	43106076	-0.234617007	PASS
POMK	8	43093506	43123434	-0.201142258	PASS
POMP	13	28659104	28678925	-0.390786075	PASS
POMT1	9	131502902	131523806	0.365190713	suppress_segment_too_large
POMT2	14	77274956	77320884	-0.192197564	PASS
POMZP3	7	76609986	76627261	-0.262778904	PASS
PON1	7	95297676	95324707	-0.262778904	PASS
PON2	7	95404863	95435329	-0.262778904	PASS
PON3	7	95359944	95396368	-0.262778904	PASS
POP1	8	98117297	98159834	0.279445683	PASS
POP4	19	29604017	29617237	0.093487731	suppress_segment_too_large
POP5	12	120578764	120581398	0.202141228	PASS
POP7	7	100706053	100707495	-0.262778904	PASS
POPDC2	3	119636457	119665324	0.313454204	suppress_segment_too_large
POPDC3	6	105158280	105179995	-0.368590549	PASS
POR	7	75899200	75986855	-0.262778904	PASS
PORCN	23	48508962	48520814	-0.012567603	PASS
POSTN	13	37562583	37598844	-0.390786075	PASS
POT1	7	124822386	124929983	-0.388946609	PASS
POTEB3	15	21408243	21440451	-0.750600437	PASS
POTEC	18	14507339	14543585	-0.052305056	suppress_segment_too_large
POTED	21	13609858	13641585	-0.304975024	PASS

POTEE	2	131218067	131265278	-0.475215623	PASS
POTEF	2	130074030	130129222	-0.475215623	PASS
POTEG	14	19402486	19434341	-0.238381381	PASS
POTEH	22	15690026	15721631	-0.575930959	PASS
POTEI	2	130459455	130509666	-0.475215623	PASS
POTEJ	2	130611481	130658091	-0.475215623	PASS
POTEM	14	18967434	18999012	-0.238381381	PASS
POU1F1	3	87259404	87276587	0.313454204	suppress_segment_too_large
POU2AF1	11	111352252	111455630	-0.356188624	PASS
POU2F1	1	167220829	167427345	-0.027073548	PASS
POU2F2	19	42086110	42196585	0.093487731	suppress_segment_too_large
POU2F3	11	120236640	120319944	-0.356188624	PASS
POU3F1	1	38044611	38046794	0.033763446	PASS
POU3F2	6	98834592	98839470	-0.368590549	PASS
POU3F3	2	104855511	104858574	-0.532032081	PASS
POU3F4	23	83508261	83512127	-0.012567603	PASS
POU4F1	13	78598362	78603560	-0.390786075	PASS
POU4F2	4	146638893	146642474	-0.011382299	PASS
POU4F3	5	146338839	146341722	-0.293443042	PASS
POU5F1	6	31164337	31180731	0.048820648	PASS
POU5F1B	8	127322183	127420066	0.113969953	PASS
POU5F2	5	93733220	93741637	-0.293443042	PASS
POU6F1	12	51186936	51217708	-0.202191512	PASS
POU6F2	7	38977998	39493095	-0.69513118	PASS
PP2D1	3	19979961	20012330	0.311018244	suppress_segment_too_large
PPA1	10	70202830	70233911	0.072405807	PASS
PPA2	4	105369077	105474081	-0.011382299	PASS
PPAN	19	10106289	10111634	0.093487731	suppress_segment_too_large
PPAN-P2R	19	10106223	10114780	0.093487731	suppress_segment_too_large
PPARA	22	46150521	46243756	-0.808211634	PASS
PPARD	6	35342558	35428191	0.048820648	PASS
PPARG	3	12287368	12434356	0.311018244	suppress_segment_too_large
PPARGC1A	4	23755041	23904089	0.279089364	PASS
PPARGC1B	5	149730298	149855022	-0.293443042	PASS
PPAT	4	56393362	56435615	-0.011382299	PASS
PPBP	4	73987038	73988197	-0.011382299	PASS
PPCDC	15	75023555	75117462	-0.697600509	PASS
PPCS	1	42456117	42473385	0.033763446	PASS
PPDPF	20	63520724	63522206	-0.168668583	PASS
PPDPFL	8	49054311	49076090	-0.201142258	PASS
PPEF1	23	18675909	18827921	-0.012567603	PASS
PPEF2	4	75859864	75902571	-0.011382299	PASS
PPFIA1	11	70270700	70385312	0.182439925	suppress_segment_too_large
PPFIA2	12	81257975	81759553	0.202141228	PASS
PPFIA3	19	49119389	49151026	0.14996833	PASS
PPFIA4	1	203026498	203078740	-0.256698369	PASS

PPFIBP1	12	27523431	27695564	0.362961408	suppress_segment_too_large
PPFIBP2	11	7513298	7657127	-0.405444717	PASS
PPHLN1	12	42238447	42459715	-0.202191512	PASS
PPIA	7	44796680	44824564	-0.69513118	PASS
PPIAL4A	1	120889746	120890405	-0.157385092	PASS
PPIAL4C	1	149583865	149584464	-0.157385092	PASS
PPIAL4D	1	145241630	145242124	-0.157385092	PASS
PPIAL4G	1	148479824	148483679	-0.157385092	PASS
PPIB	15	64155812	64163205	-0.697600509	PASS
PPIC	5	123023250	123036741	-0.293443042	PASS
PPID	4	158709134	158723396	-0.011382299	PASS
PPIE	1	39692182	39763914	0.033763446	PASS
PPIF	10	79347469	79355337	0.072405807	PASS
PPIG	2	169584340	169641406	0.039726562	PASS
PPIH	1	42658425	42676758	0.033763446	PASS
PPIL1	6	36854827	36875024	0.048820648	PASS
PPIL2	22	21666009	21700015	-0.575930959	PASS
PPIL3	2	200870907	200889303	0.025928102	PASS
PPIL4	6	149504733	149546038	-0.035448111	PASS
PPIL6	6	109390215	109441171	-0.368590549	PASS
PPIP5K1	15	43533462	43590253	-0.396255771	PASS
PPIP5K2	5	103120149	103212799	-0.293443042	PASS
PPL	16	4882507	4960741	0.069936844	PASS
PPM1A	14	60245752	60299087	0.060212819	PASS
PPM1B	2	44167969	44244384	0.040498426	PASS
PPM1D	17	60600183	60666280	0.088516311	PASS
PPM1E	17	58755869	58985176	0.088516311	PASS
PPM1F	22	21919420	21952837	-0.575930959	PASS
PPM1G	2	27381194	27409687	0.040498426	PASS
PPM1H	12	62643982	62935037	-0.202191512	PASS
PPM1J	1	112709994	112715477	0.033763446	PASS
PPM1K	4	88257620	88284769	-0.011382299	PASS
PPM1L	3	160755602	161078907	0.318278996	suppress_segment_too_large
PPM1M	3	52245793	52250597	-0.234617007	PASS
PPM1N	19	45488777	45502510	0.14996833	PASS
PPME1	11	74171099	74254703	0.062969153	PASS
PPOX	1	161166410	161178013	-0.027073548	PASS
PPP1CA	11	67398183	67421183	0.182439925	suppress_segment_too_large
PPP1CB	2	28751640	28802940	0.040498426	PASS
PPP1CC	12	110719680	110742939	0.202141228	PASS
PPP1R10	6	30600400	30618612	0.048820648	PASS
PPP1R11	6	30066709	30070333	0.048820648	PASS
PPP1R12A	12	79773563	79935460	0.202141228	PASS
PPP1R12B	1	202348699	202592706	-0.256698369	PASS
PPP1R12C	19	55090913	55117559	0.121336758	PASS
PPP1R13B	14	103733195	103847590	-0.192197564	PASS

PPP1R13L	19	45379634	45406349	0.14996833	PASS
PPP1R14A	19	38251237	38256591	0.093487731	suppress_segment_too_large
PPP1R14B	11	64244480	64246941	0.182439925	suppress_segment_too_large
PPP1R14C	6	150143076	150250357	-0.035448111	PASS
PPP1R14D	15	40815445	40828709	-0.396255771	PASS
PPP1R15A	19	48872392	48876057	0.14996833	PASS
PPP1R15B	1	204403387	204411791	-0.256698369	PASS
PPP1R16A	8	144477969	144502121	0.307788765	PASS
PPP1R16B	20	38805705	38923024	-0.168668583	PASS
PPP1R17	7	31686715	31708455	-0.69513118	PASS
PPP1R18	6	30676389	30687895	0.048820648	PASS
PPP1R1A	12	54575387	54588659	-0.202191512	PASS
PPP1R1B	17	39626740	39636626	0.060555011	PASS
PPP1R1C	2	181954241	182131398	0.039726562	PASS
PPP1R2	3	195514425	195543386	0.326834516	PASS
PPP1R21	2	48440598	48515391	0.040498426	PASS
PPP1R26	9	135479079	135488893	0.365190713	suppress_segment_too_large
PPP1R27	17	81833492	81835050	0.088516311	PASS
PPP1R2B	5	156850538	156852528	-0.293443042	PASS
PPP1R32	11	61481120	61490931	0.182439925	suppress_segment_too_large
PPP1R35	7	100435282	100436565	-0.262778904	PASS
PPP1R36	14	64549902	64589380	0.060212819	PASS
PPP1R37	19	45091396	45148077	0.14996833	PASS
PPP1R3A	7	113876777	114075920	-0.388946609	PASS
PPP1R3B	8	9136255	9151574	-0.345962679	PASS
PPP1R3C	10	91628442	91633054	-0.39678585	PASS
PPP1R3D	20	59936668	59940297	-0.168668583	PASS
PPP1R3E	14	23295643	23302848	0.060212819	PASS
PPP1R3F	23	49269843	49301461	-0.012567603	PASS
PPP1R3G	6	5084581	5089487	0.048820648	PASS
PPP1R42	8	66964099	67056604	-0.201142258	PASS
PPP1R7	2	241149576	241183652	0.025928102	PASS
PPP1R8	1	27830778	27851676	0.033763446	PASS
PPP1R9A	7	94907202	95296415	-0.262778904	PASS
PPP1R9B	17	50133735	50150630	0.088516311	PASS
PPP2CA	5	134194334	134226142	-0.293443042	PASS
PPP2CB	8	30774457	30814314	-0.345962679	PASS
PPP2R1A	19	52190039	52229533	0.206912349	PASS
PPP2R1B	11	111726908	111766427	-0.356188624	PASS
PPP2R2A	8	26291491	26372680	-0.345962679	PASS
PPP2R2B	5	146581146	147084784	-0.293443042	PASS
PPP2R2C	4	6320578	6563600	0.279089364	PASS
PPP2R2D	10	131900644	131959834	0.063874692	PASS
PPP2R3A	3	135965673	136147891	0.313454204	suppress_segment_too_large
PPP2R3B	23	333963	386955	-0.012567603	PASS
PPP2R3C	14	35085467	35122517	0.060212819	PASS

PPP2R5A	1	212285537	212361863	-0.256698369	PASS
PPP2R5B	11	64917553	64934473	0.182439925	suppress_segment_too_large
PPP2R5C	14	101761798	101927989	-0.192197564	PASS
PPP2R5D	6	42984499	43012342	0.048820648	PASS
PPP2R5E	14	63371357	63543374	0.060212819	PASS
PPP3CA	4	101023409	101348278	-0.011382299	PASS
PPP3CB	10	73436428	73496024	0.072405807	PASS
PPP3CC	8	22440819	22541142	-0.345962679	PASS
PPP3R1	2	68178857	68256237	-0.372959126	PASS
PPP3R2	9	101591615	101595021	0.365190713	suppress_segment_too_large
PPP4C	16	30075978	30085377	0.069936844	PASS
PPP4R1	18	9546791	9615240	-0.052305056	suppress_segment_too_large
PPP4R2	3	72996785	73069199	-0.234617007	PASS
PPP4R3A	14	91457611	91510554	-0.192197564	PASS
PPP4R3B	2	55547292	55618880	0.040498426	PASS
PPP4R4	14	94146128	94279735	-0.192197564	PASS
PPP5C	19	46346994	46392981	0.14996833	PASS
PPP5D1	19	46480796	46601200	0.14996833	PASS
PPP6C	9	125146573	125189939	0.365190713	suppress_segment_too_large
PPP6R1	19	55229780	55258995	0.121336758	PASS
PPP6R2	22	50343304	50445090	-0.808211634	PASS
PPP6R3	11	68460731	68615334	0.182439925	suppress_segment_too_large
PPRC1	10	102132994	102150331	-0.367947924	PASS
PPT1	1	40071461	40097727	0.033763446	PASS
PPT2	6	32153441	32163680	0.048820648	PASS
PPT2-EGF	6	32153845	32171978	0.048820648	PASS
PPTC7	12	110533245	110583320	0.202141228	PASS
PPWD1	5	65563236	65587549	-0.293443042	PASS
PPY	17	43940804	43942468	0.088516311	PASS
PQBP1	23	48897912	48903143	-0.012567603	PASS
PQLC1	18	79902420	79951664	-0.376397843	PASS
PQLC2	1	19312326	19329300	0.033763446	PASS
PQLC2L	3	157543246	157677749	0.318278996	suppress_segment_too_large
PQLC3	2	11155198	11178874	0.040498426	PASS
PRAC1	17	48721719	48722522	0.088516311	PASS
PRAC2	17	48723168	48724758	0.088516311	PASS
PRADC1	2	73228006	73233238	-0.372959126	PASS
PRAF2	23	49071156	49074071	-0.012567603	PASS
PRAG1	8	8317736	8386498	-0.345962679	PASS
PRAM1	19	8490056	8503112	0.079632875	PASS
PRAME	22	22547701	22559361	-0.575930959	PASS
PRAMEF1	1	12791397	12796628	-0.415253068	PASS
PRAMEF1	1	12892896	12898270	-0.415253068	PASS
PRAMEF1	1	12824605	12831410	-0.415253068	PASS
PRAMEF1	1	12774841	12777906	-0.415253068	PASS
PRAMEF1	1	13196330	13201409	-0.415253068	PASS

PRAMEF1	1	13342034	13347134	-0.415253068	PASS
PRAMEF1	1	13315581	13322598	-0.415253068	PASS
PRAMEF1	1	13389632	13392629	-0.415253068	PASS
PRAMEF1	1	13222705	13226106	-0.415253068	PASS
PRAMEF1	1	13369067	13371900	-0.415253068	PASS
PRAMEF2	1	12857086	12861909	-0.415253068	PASS
PRAMEF2	1	13410450	13421328	-0.415253068	PASS
PRAMEF2	1	13148905	13155961	-0.415253068	PASS
PRAMEF2	1	13049476	13056491	-0.415253068	PASS
PRAMEF3	1	13303539	13308907	-0.415253068	PASS
PRAMEF4	1	12879224	12886201	-0.415253068	PASS
PRAMEF5	1	13254212	13263314	-0.415253068	PASS
PRAMEF6	1	12938472	12947580	-0.415253068	PASS
PRAMEF7	1	12916610	12920482	-0.415253068	PASS
PRAMEF8	1	13281035	13285174	-0.415253068	PASS
PRAMEF9	1	13172455	13179464	-0.415253068	PASS
PRAP1	10	133347146	133352683	0.063874692	PASS
PRB1	12	11351823	11395566	0.362961408	suppress_segment_too_large
PRB2	12	11391540	11501041	0.362961408	suppress_segment_too_large
PRB3	12	11265924	11269805	0.362961408	suppress_segment_too_large
PRB4	12	11307083	11310435	0.362961408	suppress_segment_too_large
PRC1	15	90966038	90995629	-0.697600509	PASS
PRCC	1	156750610	156800817	0.103015788	PASS
PRCD	17	76527586	76553578	0.088516311	PASS
PRCP	11	82823502	82970584	0.062969153	PASS
PRDM1	6	106086320	106109939	-0.368590549	PASS
PRDM10	11	129899706	130002835	-0.419612865	PASS
PRDM11	11	45095806	45235110	0.117376172	PASS
PRDM12	9	130664594	130682981	0.365190713	suppress_segment_too_large
PRDM13	6	99606730	99615578	-0.368590549	PASS
PRDM14	8	70051651	70071693	-0.201142258	PASS
PRDM15	21	41798225	41879482	-0.064425456	suppress_segment_too_large
PRDM16	1	3069168	3438621	0.373964873	suppress_segment_too_large
PRDM2	1	13700198	13825079	0.033763446	PASS
PRDM4	12	107732866	107761272	0.202141228	PASS
PRDM5	4	120684919	120922870	-0.011382299	PASS
PRDM6	5	123089121	123194266	-0.293443042	PASS
PRDM7	16	90056566	90092072	-0.371357732	PASS
PRDM8	4	80183879	80204329	-0.011382299	PASS
PRDM9	5	23443586	23528597	0.055007813	PASS
PRDX1	1	45511036	45523047	0.033763446	PASS
PRDX2	19	12796820	12801859	0.093487731	suppress_segment_too_large
PRDX3	10	119167703	119178833	0.063874692	PASS
PRDX4	23	23664262	23686399	-0.012567603	PASS
PRDX5	11	64318088	64321811	0.182439925	suppress_segment_too_large
PRDX6	1	173477266	173488807	-0.027073548	PASS

PREB	2	27130756	27134675	0.040498426	PASS
PRELID1	5	177303774	177306959	-0.150979337	PASS
PRELID2	5	145471799	145835369	-0.293443042	PASS
PRELID3A	18	12407896	12432238	-0.052305056	suppress_segment_too_large
PRELID3B	20	59033145	59042909	-0.168668583	PASS
PRELP	1	203475828	203491352	-0.256698369	PASS
PREP	6	105277565	105403084	-0.368590549	PASS
PREPL	2	44316281	44361862	0.040498426	PASS
PREX1	20	48624252	48827883	-0.168668583	PASS
PREX2	8	67952118	68237030	-0.201142258	PASS
PRF1	10	70597348	70602775	0.072405807	PASS
PRG2	11	57386794	57390657	-0.129266491	PASS
PRG3	11	57376769	57381150	-0.129266491	PASS
PRG4	1	186296279	186314562	-0.027073548	PASS
PRH1	12	10824960	11171608	0.362961408	suppress_segment_too_large
PRH1-PRR	12	10845849	11171600	0.362961408	suppress_segment_too_large
PRH2	12	10929236	10932341	0.362961408	suppress_segment_too_large
PRICKLE1	12	42456757	42590355	-0.202191512	PASS
PRICKLE2	3	64092242	64445476	-0.234617007	PASS
PRICKLE3	23	49175264	49186528	-0.012567603	PASS
PRICKLE4	6	41780762	41787372	0.048820648	PASS
PRIM1	12	56731596	56752373	-0.202191512	PASS
PRIM2	6	57314805	57646849	0.048820648	PASS
PRIMA1	14	93718298	93788481	-0.192197564	PASS
PRIMPOL	4	184649613	184694963	-0.462744716	PASS
PRKAA1	5	40759379	40798374	-0.293443042	PASS
PRKAA2	1	56645322	56715335	0.033763446	PASS
PRKAB1	12	119667753	119681630	0.202141228	PASS
PRKAB2	1	147155106	147172550	-0.157385092	PASS
PRKACA	19	14091688	14118084	0.093487731	suppress_segment_too_large
PRKACB	1	84078062	84238498	0.033763446	PASS
PRKACG	9	69012529	69014113	-0.310444659	PASS
PRKAG1	12	49002274	49018825	-0.202191512	PASS
PRKAG2	7	151556111	151877125	-0.388946609	PASS
PRKAG3	2	218822383	218832086	0.025928102	PASS
PRKAR1A	17	68511780	68551319	0.088516311	PASS
PRKAR1B	7	549197	727650	-0.69513118	PASS
PRKAR2A	3	48744597	48847846	-0.234617007	PASS
PRKAR2B	7	107044649	107161811	-0.388946609	PASS
PRKCA	17	66302636	66810743	0.088516311	PASS
PRKCB	16	23835946	24220611	0.069936844	PASS
PRKCD	3	53156009	53192717	-0.234617007	PASS
PRKCE	2	45651345	46187990	0.040498426	PASS
PRKCG	19	53879190	53907652	0.206912349	PASS
PRKCH	14	61187559	61550976	0.060212819	PASS
PRKCI	3	170222365	170305981	0.318278996	suppress_segment_too_large

PRKCQ	10	6427143	6580301	0.039811807	PASS
PRKCSH	19	11435288	11450968	0.093487731	suppress_segment_too_large
PRKCZ	1	2050470	2185395	0.373964873	suppress_segment_too_large
PRKD1	14	29576479	30191898	0.060212819	PASS
PRKD2	19	46674275	46717127	0.14996833	PASS
PRKD3	2	37250502	37324808	0.040498426	PASS
PRKDC	8	47773108	47960183	-0.201142258	PASS
PRKG1	10	50990891	52298350	-0.404852538	PASS
PRKG2	4	81087370	81215117	-0.011382299	PASS
PRKN	6	161347420	162727771	-0.035448111	PASS
PRKRA	2	178431414	178451512	0.039726562	PASS
PRKRIP1	7	102363872	102426676	-0.388946609	PASS
PRKX	23	3604370	3713608	-0.012567603	PASS
PRL	6	22287244	22297501	0.048820648	PASS
PRLH	2	237566574	237567175	0.025928102	PASS
PRLHR	10	118589989	118595699	0.063874692	PASS
PRLR	5	35048756	35230589	0.055007813	PASS
PRM1	16	11280836	11281350	0.069936844	PASS
PRM2	16	11275639	11276480	0.069936844	PASS
PRM3	16	11273218	11273641	0.069936844	PASS
PRMT1	19	49675786	49689029	0.14996833	PASS
PRMT2	21	46635167	46665124	-0.064425456	suppress_segment_too_large
PRMT3	11	20387530	20509294	-0.405444717	PASS
PRMT5	14	22920511	22929585	0.060212819	PASS
PRMT6	1	107056679	107067636	0.033763446	PASS
PRMT7	16	68310974	68358563	-0.371357732	PASS
PRMT8	12	3381349	3593973	-0.086128028	PASS
PRMT9	4	147637785	147684230	-0.011382299	PASS
PRND	20	4721910	4728460	-0.168668583	PASS
PRNP	20	4686236	4701590	-0.168668583	PASS
PROB1	5	139390592	139395713	-0.293443042	PASS
PROC	2	127418427	127429246	-0.475215623	PASS
PROCA1	17	28703197	28711854	0.060555011	PASS
PROCR	20	35172073	35216240	-0.168668583	PASS
PRODH2	19	35799988	35813299	0.093487731	suppress_segment_too_large
PROK1	1	110451200	110457354	0.033763446	PASS
PROK2	3	71771656	71785206	-0.234617007	PASS
PROKR1	2	68643589	68658247	-0.372959126	PASS
PROKR2	20	5302040	5314369	-0.168668583	PASS
PROM1	4	15963076	16084378	0.279089364	PASS
PROM2	2	95274453	95291308	0.048238121	PASS
PROP1	5	177992235	177996242	-0.150979337	PASS
PROS1	3	93873033	93980003	0.313454204	suppress_segment_too_large
PROSER1	13	39009866	39038076	-0.390786075	PASS
PROSER2	10	11823339	11872277	0.039811807	PASS
PROSER3	19	35758143	35771028	0.093487731	suppress_segment_too_large

PROX1	1	213983181	214041502	-0.256698369	PASS
PROX2	14	74852871	74871940	-0.192197564	PASS
PROZ	13	113158654	113172383	-0.390786075	PASS
PRPF18	10	13586927	13630868	0.039811807	PASS
PRPF19	11	60890730	60906588	0.182439925	suppress_segment_too_large
PRPF3	1	150321476	150353195	0.103015788	PASS
PRPF31	19	54115410	54131719	0.206912349	PASS
PRPF38A	1	52404564	52420839	0.033763446	PASS
PRPF38B	1	108692323	108701803	0.033763446	PASS
PRPF39	14	45084099	45116282	0.060212819	PASS
PRPF4	9	113275343	113292905	0.365190713	suppress_segment_too_large
PRPF40A	2	152651593	152717997	-0.475215623	PASS
PRPF40B	12	49568218	49644666	-0.202191512	PASS
PRPF4B	6	4021267	4064983	0.048820648	PASS
PRPF6	20	63981135	64033100	-0.168668583	PASS
PRPF8	17	1650629	1684882	0.128406487	PASS
PRPH	12	49293252	49298686	-0.202191512	PASS
PRPH2	6	42696600	42722574	0.048820648	PASS
PRPS1	23	107628424	107651026	-0.012567603	PASS
PRPS1L1	7	18026774	18027863	-0.69513118	PASS
PRPS2	23	12791355	12824222	-0.012567603	PASS
PRPSAP1	17	76309486	76384521	0.088516311	PASS
PRPSAP2	17	18840085	18931287	0.024610076	PASS
PRR11	17	59155499	59204705	0.088516311	PASS
PRR12	19	49591643	49626439	0.14996833	PASS
PRR13	12	53441605	53446645	-0.202191512	PASS
PRR14	16	30650717	30656440	0.069936844	PASS
PRR14L	22	31676256	31750140	-0.575930959	PASS
PRR15	7	29563811	29567295	-0.69513118	PASS
PRR15L	17	47951967	47957878	0.088516311	PASS
PRR16	5	120464278	120687332	-0.293443042	PASS
PRR18	6	166305300	166308448	-0.035448111	PASS
PRR19	19	42302098	42310821	0.093487731	suppress_segment_too_large
PRR22	19	5782960	5784765	0.079632875	PASS
PRR23A	3	139005468	139006268	0.313454204	suppress_segment_too_large
PRR23B	3	139019031	139020926	0.313454204	suppress_segment_too_large
PRR23C	3	139042102	139044892	0.313454204	suppress_segment_too_large
PRR23D1	8	7539628	7542450	-0.345962679	PASS
PRR26	10	649948	669581	0.039811807	PASS
PRR27	4	70133616	70176799	-0.011382299	PASS
PRR29	17	63998351	64004304	0.088516311	PASS
PRR3	6	30556886	30563723	0.048820648	PASS
PRR30	2	27136848	27139410	0.040498426	PASS
PRR32	23	126819764	126821786	-0.012567603	PASS
PRR33	11	1888577	1891895	-0.333835828	PASS
PRR34	22	46049478	46054144	-0.808211634	PASS

PRR35	16	560422	565528	0.069936844	PASS
PRR36	19	7868719	7874379	0.079632875	PASS
PRR4	12	10845849	10849475	0.362961408	suppress_segment_too_large
PRR5	22	44668547	44737681	-0.808211634	PASS
PRR5-ARH	22	44702233	44862706	-0.808211634	PASS
PRR5L	11	36296288	36465204	-0.405444717	PASS
PRR7	5	177446445	177456286	-0.150979337	PASS
PRR9	1	153217584	153219317	0.103015788	PASS
PRRC1	5	127517609	127555089	-0.293443042	PASS
PRRC2A	6	31620720	31637771	0.048820648	PASS
PRRC2B	9	131373636	131500197	0.365190713	suppress_segment_too_large
PRRC2C	1	171485551	171593511	-0.027073548	PASS
PRRG1	23	37349275	37457295	-0.012567603	PASS
PRRG2	19	49580646	49591015	0.14996833	PASS
PRRG3	23	151695124	151705924	-0.012567603	PASS
PRRG4	11	32829943	32858123	-0.405444717	PASS
PRRT1	6	32148359	32153083	0.048820648	PASS
PRRT2	16	29811382	29815892	0.069936844	PASS
PRRT3	3	9945542	9952394	0.311018244	suppress_segment_too_large
PRRT4	7	128350325	128361685	-0.388946609	PASS
PRRX1	1	170662728	170739419	-0.027073548	PASS
PRRX2	9	129665641	129722674	0.365190713	suppress_segment_too_large
PRSS1	7	142749468	142753076	-0.388946609	PASS
PRSS12	4	118280038	118353003	-0.011382299	PASS
PRSS16	6	27247701	27256624	0.048820648	PASS
PRSS2	7	142760398	142774564	-0.388946609	PASS
PRSS21	16	2817180	2826304	0.069936844	PASS
PRSS22	16	2852727	2858170	0.069936844	PASS
PRSS23	11	86791059	86952910	0.062969153	PASS
PRSS27	16	2712418	2720551	0.069936844	PASS
PRSS3	9	33750466	33799231	-0.310444659	PASS
PRSS33	16	2783953	2787948	0.069936844	PASS
PRSS35	6	83512538	83525704	-0.368590549	PASS
PRSS36	16	31138925	31150094	0.069936844	PASS
PRSS37	7	141836286	141841487	-0.388946609	PASS
PRSS38	1	227815693	227846470	-0.256698369	PASS
PRSS41	16	2798485	2805302	0.069936844	PASS
PRSS42	3	46829542	46834095	-0.234617007	PASS
PRSS45	3	46742092	46744755	-0.234617007	PASS
PRSS48	4	151277171	151291453	-0.011382299	PASS
PRSS50	3	46712115	46812574	-0.234617007	PASS
PRSS51	8	10482878	10547585	-0.345962679	PASS
PRSS53	16	31083425	31089628	0.069936844	PASS
PRSS54	16	58279997	58295047	-0.371357732	PASS
PRSS55	8	10525546	10554166	-0.345962679	PASS
PRSS56	2	232520463	232525716	0.025928102	PASS

PRSS57	19	685546	695498	0.079632875	PASS
PRSS58	7	142252143	142258058	-0.388946609	PASS
PRSS8	16	31131433	31135762	0.069936844	PASS
PRTFDC1	10	24848607	24952604	0.039811807	PASS
PRTG	15	55611546	55743090	-0.697600509	PASS
PRTN3	19	840960	848175	0.079632875	PASS
PRUNE1	1	151008420	151035713	0.103015788	PASS
PRUNE2	9	76611376	76906087	0.365190713	suppress_segment_too_large
PRX	19	40393768	40413366	0.093487731	suppress_segment_too_large
PRXL2A	10	80407829	80437115	0.072405807	PASS
PRXL2B	1	2586491	2591469	0.373964873	suppress_segment_too_large
PRXL2C	9	96639577	96655303	0.365190713	suppress_segment_too_large
PSAP	10	71816298	71851375	0.072405807	PASS
PSAPL1	4	7430294	7434973	0.279089364	PASS
PSAT1	9	78297143	78330093	0.365190713	suppress_segment_too_large
PSCA	8	142670308	142682724	0.113969953	PASS
PSD	10	102402617	102421539	-0.367947924	PASS
PSD2	5	139795821	139844466	-0.293443042	PASS
PSD3	8	18527301	19084730	-0.345962679	PASS
PSD4	2	113157325	113209396	-0.010901494	PASS
PSEN1	14	73136418	73223691	0.060212819	PASS
PSEN2	1	226870184	226896105	-0.256698369	PASS
PSENEN	19	35745114	35747519	0.093487731	suppress_segment_too_large
PSG1	19	42866464	42879822	-0.459876623	PASS
PSG11	19	43007656	43026512	-0.459876623	PASS
PSG2	19	43064211	43083045	-0.459876623	PASS
PSG3	19	42721638	42740569	-0.459876623	PASS
PSG4	19	43192702	43207299	-0.459876623	PASS
PSG5	19	43166256	43186536	-0.459876623	PASS
PSG6	19	42902079	42919563	-0.459876623	PASS
PSG7	19	42924132	42937178	-0.459876623	PASS
PSG8	19	42752686	42855691	-0.459876623	PASS
PSG9	19	43211791	43269530	-0.459876623	PASS
PSIP1	9	15464066	15511019	-0.310444659	PASS
PSKH1	16	67893272	67929678	-0.371357732	PASS
PSKH2	8	86048373	86088621	0.279445683	PASS
PSMA1	11	14504874	14643635	-0.405444717	PASS
PSMA2	7	42916857	42932223	-0.69513118	PASS
PSMA3	14	58244831	58272012	0.060212819	PASS
PSMA4	15	78540405	78552419	-0.697600509	PASS
PSMA5	1	109399031	109426427	0.033763446	PASS
PSMA6	14	35278633	35317493	0.060212819	PASS
PSMA7	20	62136735	62143440	-0.168668583	PASS
PSMA8	18	26133852	26193355	-0.376397843	PASS
PSMB1	6	170535117	170553341	-0.035448111	PASS
PSMB10	16	67934502	67937087	-0.371357732	PASS

PSMB11	14	23042167	23044276	0.060212819	PASS
PSMB2	1	35599544	35641844	0.033763446	PASS
PSMB3	17	38752736	38764231	0.060555011	PASS
PSMB4	1	151399534	151401944	0.103015788	PASS
PSMB5	14	23016543	23035230	0.060212819	PASS
PSMB6	17	4796144	4798503	0.128406487	PASS
PSMB7	9	124353466	124415444	0.365190713	suppress_segment_too_large
PSMB8	6	32840717	32844703	0.048820648	PASS
PSMB9	6	32844136	32859585	0.048820648	PASS
PSMC1	14	90256495	90275429	-0.192197564	PASS
PSMC2	7	103344254	103369395	-0.388946609	PASS
PSMC3	11	47418769	47426473	0.117376172	PASS
PSMC3IP	17	42572315	42577831	0.088516311	PASS
PSMC4	19	39971005	39981441	0.093487731	suppress_segment_too_large
PSMC5	17	63827152	63832026	0.088516311	PASS
PSMC6	14	52707172	52728587	0.060212819	PASS
PSMD1	2	231056864	231172827	0.025928102	PASS
PSMD10	23	108084207	108091618	-0.012567603	PASS
PSMD11	17	32444261	32483318	0.060555011	PASS
PSMD12	17	67337916	67366627	0.088516311	PASS
PSMD13	11	236546	252984	-0.333835828	PASS
PSMD14	2	161308038	161411717	0.039726562	PASS
PSMD2	3	184298709	184309054	0.318278996	suppress_segment_too_large
PSMD3	17	39980797	39997960	0.060555011	PASS
PSMD4	1	151254703	151267479	0.103015788	PASS
PSMD5	9	120815496	120842984	0.365190713	suppress_segment_too_large
PSMD6	3	64010549	64024010	-0.234617007	PASS
PSMD7	16	74296775	74306288	-0.371357732	PASS
PSMD8	19	38374536	38383824	0.093487731	suppress_segment_too_large
PSMD9	12	121888731	121918297	0.202141228	PASS
PSME1	14	24136158	24138967	0.060212819	PASS
PSME2	14	24143362	24147570	0.060212819	PASS
PSME3	17	42824385	42843758	0.088516311	PASS
PSME4	2	53864067	53970840	0.040498426	PASS
PSMF1	20	1113263	1189415	-0.168668583	PASS
PSMG1	21	39174769	39183851	-0.064425456	suppress_segment_too_large
PSMG2	18	12658043	12725740	-0.052305056	suppress_segment_too_large
PSMG3	7	1567330	1571005	-0.69513118	PASS
PSMG4	6	3231403	3303373	0.048820648	PASS
PSORS1C1	6	31114750	31140092	0.048820648	PASS
PSORS1C2	6	31137536	31139350	0.048820648	PASS
PSPC1	13	19674752	19783019	-0.390786075	PASS
PSPH	7	56011051	56051604	-0.750061359	PASS
PSPN	19	6375148	6379058	0.079632875	PASS
PSRC1	1	109279556	109283186	0.033763446	PASS
PSTK	10	122954381	122997513	0.063874692	PASS

PSTPIP1	15	76993359	77037332	-0.697600509	PASS
PSTPIP2	18	45983536	46072272	-0.376397843	PASS
PTAFR	1	28147166	28193936	0.033763446	PASS
PTAR1	9	69709522	69759959	0.365190713	suppress_segment_too_large
PTBP1	19	797075	812327	0.079632875	PASS
PTBP2	1	96721665	96823738	0.033763446	PASS
PTBP3	9	112217716	112333667	0.365190713	suppress_segment_too_large
PTCD1	7	99416739	99466163	-0.262778904	PASS
PTCD2	5	72320367	72368395	-0.293443042	PASS
PTCD3	2	86106182	86142157	0.066915641	PASS
PTCH1	9	95442980	95517057	0.365190713	suppress_segment_too_large
PTCH2	1	44819844	44843063	0.033763446	PASS
PTCHD1	23	23334016	23404372	-0.012567603	PASS
PTCHD4	6	47878028	48068689	0.048820648	PASS
PTCRA	6	42915989	42925835	0.048820648	PASS
PTDSS1	8	96261715	96336995	0.279445683	PASS
PTDSS2	11	448268	491399	-0.333835828	PASS
PTEN	10	87863113	87971930	-1.64589449	RESCUE
PTER	10	16436943	16513745	0.039811807	PASS
PTF1A	10	23192327	23194252	0.039811807	PASS
PTGDR	14	52267713	52276724	0.060212819	PASS
PTGDR2	11	60850940	60855971	0.182439925	suppress_segment_too_large
PTGDS	9	136975092	136981742	0.365190713	suppress_segment_too_large
PTGER1	19	14472466	14475362	0.093487731	suppress_segment_too_large
PTGER2	14	52314305	52328606	0.060212819	PASS
PTGER3	1	70852353	71047808	0.033763446	PASS
PTGER4	5	40679498	40693735	-0.293443042	PASS
PTGES	9	129738331	129753047	0.365190713	suppress_segment_too_large
PTGES2	9	128120693	128128462	0.365190713	suppress_segment_too_large
PTGES3	12	56663341	56688408	-0.202191512	PASS
PTGES3L	17	42968088	42980433	0.088516311	PASS
PTGES3L-	17	42950526	42980528	0.088516311	PASS
PTGFR	1	78303884	78539749	0.033763446	PASS
PTGFRN	1	116910057	116990358	0.033763446	PASS
PTGIR	19	46620468	46625118	0.14996833	PASS
PTGIS	20	49503874	49568146	-0.168668583	PASS
PTGR1	9	111549722	111599893	0.365190713	suppress_segment_too_large
PTGR2	14	73851844	73886827	0.060212819	PASS
PTGS1	9	122370530	122395703	0.365190713	suppress_segment_too_large
PTGS2	1	186671791	186680427	-0.027073548	PASS
PTH	11	13492055	13496181	-0.405444717	PASS
PTH1R	3	46877746	46903799	-0.234617007	PASS
PTH2	19	49422414	49423441	0.14996833	PASS
PTH2R	2	208359714	208854503	0.025928102	PASS
PTHLH	12	27958084	27972705	0.362961408	suppress_segment_too_large
PTK2	8	140657900	141002216	0.113969953	PASS

PTK2B	8	27311482	27459391	-0.345962679	PASS
PTK6	20	63528001	63537370	-0.168668583	PASS
PTK7	6	43076268	43161719	0.048820648	PASS
PTMA	2	231706895	231713541	0.025928102	PASS
PTMS	12	6765516	6770952	-0.086128028	PASS
PTN	7	137227341	137343865	-0.388946609	PASS
PTOV1	19	49850735	49860744	0.14996833	PASS
PTP4A1	6	63521746	63583377	0.048820648	PASS
PTP4A2	1	31906421	31944856	0.033763446	PASS
PTP4A3	8	141391993	141432454	0.113969953	PASS
PTPA	9	129110950	129148946	0.365190713	suppress_segment_too_large
PTPDC1	9	94030794	94109856	0.365190713	suppress_segment_too_large
PTPMT1	11	47565430	47573461	0.117376172	PASS
PTPN1	20	50510321	50585241	-0.168668583	PASS
PTPN11	12	112418351	112509913	0.202141228	PASS
PTPN12	7	77537275	77640071	-0.262778904	PASS
PTPN13	4	86594315	86815171	-0.011382299	PASS
PTPN14	1	214348696	214552449	-0.256698369	PASS
PTPN18	2	130356007	130375409	-0.475215623	PASS
PTPN2	18	12785478	12929643	-0.052305056	suppress_segment_too_large
PTPN20	10	46911396	47002488	-0.404852538	PASS
PTPN21	14	88465778	88554733	-0.192197564	PASS
PTPN22	1	113813811	113871759	0.033763446	PASS
PTPN23	3	47381011	47413441	-0.234617007	PASS
PTPN3	9	109375466	109498313	0.365190713	suppress_segment_too_large
PTPN4	2	119759631	119983818	-0.475215623	PASS
PTPN5	11	18727928	18792721	-0.405444717	PASS
PTPN6	12	6946468	6961316	-0.086128028	PASS
PTPN7	1	202147013	202161588	-0.256698369	PASS
PTPN9	15	75463251	75579289	-0.697600509	PASS
PTPRA	20	2864184	3039076	-0.168668583	PASS
PTPRB	12	70515866	70637440	-0.202191512	PASS
PTPRC	1	198638457	198757476	-0.027073548	PASS
PTPRCAP	11	67435510	67438067	0.182439925	suppress_segment_too_large
PTPRD	9	8314246	10612723	-0.310444659	PASS
PTPRE	10	127907061	128085855	0.063874692	PASS
PTPRF	1	43525187	43623666	0.033763446	PASS
PTPRG	3	61561569	62297613	-0.234617007	PASS
PTPRH	19	55181248	55209506	0.121336758	PASS
PTPRJ	11	47980558	48170841	-0.621795272	PASS
PTPRK	6	127968779	128520674	-0.458570262	PASS
PTPRM	18	7566782	8406861	-0.052305056	suppress_segment_too_large
PTPRN	2	219289623	219309648	0.025928102	PASS
PTPRN2	7	157539056	158587788	-0.411415677	PASS
PTPRO	12	15322397	15597399	0.362961408	suppress_segment_too_large
PTPRQ	12	80402178	80680271	0.202141228	PASS

PTPRR	12	70638073	70920843	-0.202191512	PASS
PTPRS	19	5158495	5340803	0.079632875	PASS
PTPRT	20	42072752	43189970	-0.168668583	PASS
PTPRU	1	29236516	29326813	0.033763446	PASS
PTPRZ1	7	121873089	122062036	-0.388946609	PASS
PTRH1	9	127690348	127724873	0.365190713	suppress_segment_too_large
PTRH2	17	59674636	59707626	0.088516311	PASS
PTRHD1	2	24789734	24793382	0.040498426	PASS
PTS	11	112226365	112269955	-0.356188624	PASS
PTTG1	5	160421822	160428744	-0.150979337	PASS
PTTG1IP	21	44849585	44873903	-0.064425456	suppress_segment_too_large
PTTG2	4	37960435	37961125	-0.011382299	PASS
PTX3	3	157436789	157443628	0.318278996	suppress_segment_too_large
PTX4	16	1485886	1488981	0.069936844	PASS
PUDP	23	7048920	7148190	-0.012567603	PASS
PUF60	8	143816344	143829859	0.307788765	PASS
PUM1	1	30931506	31065991	0.033763446	PASS
PUM2	2	20248691	20352234	0.040498426	PASS
PUM3	9	2720469	2844241	-0.310444659	PASS
PURA	5	140107777	140125619	-0.293443042	PASS
PURB	7	44876293	44885361	-0.69513118	PASS
PURG	8	30995802	31033715	-0.345962679	PASS
PUS1	12	131929200	131945896	0.270848837	PASS
PUS10	2	60940222	61018259	-0.372959126	PASS
PUS3	11	125893485	125903221	-0.419612865	PASS
PUS7	7	105439661	105522267	-0.388946609	PASS
PUS7L	12	43718993	43758817	-0.202191512	PASS
PUSL1	1	1308567	1311677	0.373964873	suppress_segment_too_large
PVALB	22	36800684	36819479	-0.575930959	PASS
PVALEF	17	81165507	81183164	0.088516311	PASS
PVR	19	44643798	44663583	0.14996833	PASS
PVRIG	7	100218241	100221490	-0.262778904	PASS
PWP1	12	107685732	107713167	0.202141228	PASS
PWP2	21	44107290	44131181	-0.064425456	suppress_segment_too_large
PWWP2A	5	160061801	160119423	-0.150979337	PASS
PWWP2B	10	132397168	132417863	0.063874692	PASS
PXDC1	6	3722614	3752026	0.048820648	PASS
PXDN	2	1631887	1744852	0.040498426	PASS
PXDNL	8	51319578	51809445	-0.201142258	PASS
PXK	3	58332880	58426126	-0.234617007	PASS
PXMP2	12	132687606	132704991	0.270848837	PASS
PXMP4	20	33702754	33720319	-0.168668583	PASS
PXN	12	120210439	120265771	0.202141228	PASS
PXT1	6	36390551	36442889	0.048820648	PASS
PXYLP1	3	141228726	141367753	-0.356957581	PASS
PYCARD	16	31201485	31203450	0.069936844	PASS

PYCR1	17	81932384	81942412	0.088516311	PASS
PYCR2	1	225919877	225924340	-0.256698369	PASS
PYCR3	8	143603913	143609773	0.307788765	PASS
PYDC1	16	31215962	31217359	0.069936844	PASS
PYDC2	3	191461163	191461456	-0.627320105	PASS
PYGB	20	25248069	25298014	-0.168668583	PASS
PYGL	14	50857891	50944736	0.060212819	PASS
PYGM	11	64746389	64760297	0.182439925	suppress_segment_too_large
PYGO1	15	55538890	55588947	-0.697600509	PASS
PYGO2	1	154957026	154963853	0.103015788	PASS
PYHIN1	1	158930796	158977054	-0.467855874	PASS
PYM1	12	55901413	55932618	-0.202191512	PASS
PYROXD1	12	21437615	21471252	0.362961408	suppress_segment_too_large
PYROXD2	10	98383565	98415184	-0.367947924	PASS
PYURF	4	88520985	88523813	-0.011382299	PASS
PYY	17	43952738	44004469	0.088516311	PASS
PZP	12	9148840	9208370	0.362961408	suppress_segment_too_large
QARS	3	49095932	49105135	-0.234617007	PASS
QDPR	4	17460261	17512234	0.279089364	PASS
QKI	6	163414000	163578596	-0.035448111	PASS
QPCT	2	37342827	37373322	0.040498426	PASS
QPCTL	19	45692483	45703989	0.14996833	PASS
QPRT	16	29679008	29698699	0.069936844	PASS
QRFP	9	130892702	130896812	0.365190713	suppress_segment_too_large
QRFPR	4	121329312	121381059	-0.011382299	PASS
QRICH1	3	49029707	49094363	-0.234617007	PASS
QRICH2	17	76274049	76307998	0.088516311	PASS
QRSL1	6	106629578	106668417	-0.368590549	PASS
QSER1	11	32892820	32993316	-0.405444717	PASS
QSOX1	1	180154834	180204030	-0.027073548	PASS
QSOX2	9	136206333	136245841	0.365190713	suppress_segment_too_large
QTRT1	19	10701430	10713437	0.093487731	suppress_segment_too_large
QTRT2	3	114005833	114088422	0.313454204	suppress_segment_too_large
R3HCC1	8	23270120	23296279	-0.345962679	PASS
R3HCC1L	10	98134624	98244897	-0.367947924	PASS
R3HDM1	2	135531455	135725270	-0.475215623	PASS
R3HDM2	12	57253762	57431005	-0.202191512	PASS
R3HDM4	19	896503	913245	0.079632875	PASS
R3HDML	20	44336986	44351235	-0.168668583	PASS
RAB10	2	26034107	26137454	0.040498426	PASS
RAB11A	15	65726054	65891991	-0.697600509	PASS
RAB11B	19	8389981	8404434	0.079632875	PASS
RAB11FIP	8	37858618	37899467	-0.201142258	PASS
RAB11FIP	10	118004916	118046603	0.063874692	PASS
RAB11FIP	16	425619	523011	0.069936844	PASS
RAB11FIP	17	31391624	31538217	0.060555011	PASS

RAB11FIP	2	73073382	73156721	-0.372959126	PASS
RAB12	18	8609437	8639382	-0.052305056	suppress_segment_too_large
RAB13	1	153981617	153986358	0.103015788	PASS
RAB14	9	121178137	121223014	0.365190713	suppress_segment_too_large
RAB15	14	64945814	64973226	0.060212819	PASS
RAB17	2	237574322	237601614	0.025928102	PASS
RAB18	10	27504174	27542237	0.039811807	PASS
RAB19	7	140404043	140426250	-0.388946609	PASS
RAB1A	2	65070696	65130331	-0.372959126	PASS
RAB1B	11	66268533	66277492	0.182439925	suppress_segment_too_large
RAB20	13	110523066	110561733	-0.390786075	PASS
RAB21	12	71754874	71800285	-0.202191512	PASS
RAB22A	20	58309696	58367507	-0.168668583	PASS
RAB23	6	57186992	57222314	0.048820648	PASS
RAB24	5	177301198	177303744	-0.150979337	PASS
RAB25	1	156061160	156070514	0.103015788	PASS
RAB26	16	2140803	2154165	0.069936844	PASS
RAB27A	15	55202966	55319113	-0.697600509	PASS
RAB27B	18	54717860	54895516	-0.376397843	PASS
RAB28	4	13361354	13484365	0.279089364	PASS
RAB29	1	205767986	205775460	-0.256698369	PASS
RAB2A	8	60516857	60623627	-0.201142258	PASS
RAB2B	14	21459020	21476973	0.060212819	PASS
RAB30	11	82973133	83071923	0.062969153	PASS
RAB31	18	9708165	9862551	-0.052305056	suppress_segment_too_large
RAB32	6	146543693	146554965	-0.035448111	PASS
RAB33A	23	130171649	130184870	-0.012567603	PASS
RAB33B	4	139453232	139476609	-0.011382299	PASS
RAB34	17	28714281	28718429	0.060555011	PASS
RAB35	12	120095095	120117502	0.202141228	PASS
RAB36	22	23145326	23164350	-0.575930959	PASS
RAB37	17	74670578	74747335	0.088516311	PASS
RAB38	11	88113242	88175467	0.062969153	PASS
RAB39A	11	107928503	107963482	-0.356188624	PASS
RAB39B	23	155258241	155264589	-0.012567603	PASS
RAB3A	19	18196784	18204074	0.093487731	suppress_segment_too_large
RAB3B	1	51907956	51990764	0.033763446	PASS
RAB3C	5	58582221	58859394	-0.293443042	PASS
RAB3D	19	11322046	11346270	0.093487731	suppress_segment_too_large
RAB3GAP	2	135052265	135176394	-0.475215623	PASS
RAB3GAP	1	220148293	220272454	-0.256698369	PASS
RAB3IL1	11	61897301	61920269	0.182439925	suppress_segment_too_large
RAB3IP	12	69738681	69823204	-0.202191512	PASS
RAB40A	23	103499130	103519489	-0.012567603	PASS
RAB40AL	23	102937272	102938300	-0.012567603	PASS
RAB40B	17	82654973	82698728	0.088516311	PASS

RAB40C	16	589357	629272	0.069936844	PASS
RAB41	23	70282093	70285002	-0.012567603	PASS
RAB42	1	28592200	28595443	0.033763446	PASS
RAB43	3	129087569	129122801	0.313454204	suppress_segment_too_large
RAB44	6	36697810	36733183	0.048820648	PASS
RAB4A	1	229271062	229305894	-0.256698369	PASS
RAB4B	19	40778216	40796938	0.093487731	suppress_segment_too_large
RAB4B-EC	19	40778242	40808418	0.093487731	suppress_segment_too_large
RAB5A	3	19947079	19985175	0.311018244	suppress_segment_too_large
RAB5B	12	55973913	55996683	-0.202191512	PASS
RAB5C	17	42124976	42155044	0.060555011	PASS
RAB5IF	20	36605734	36612557	-0.168668583	PASS
RAB6A	11	73675638	73761137	0.062969153	PASS
RAB6B	3	133824239	133895836	0.313454204	suppress_segment_too_large
RAB6C	2	129979664	129982738	-0.475215623	PASS
RAB6D	2	131361111	131364142	-0.475215623	PASS
RAB7A	3	128726122	128814796	0.313454204	suppress_segment_too_large
RAB7B	1	205976740	206003461	-0.256698369	PASS
RAB8A	19	16111629	16134234	0.093487731	suppress_segment_too_large
RAB8B	15	63189469	63267782	-0.697600509	PASS
RAB9A	23	13689125	13710506	-0.012567603	PASS
RAB9B	23	103822322	103832228	-0.012567603	PASS
RABAC1	19	41956681	41959390	0.093487731	suppress_segment_too_large
RABEP1	17	5282265	5385812	0.128406487	PASS
RABEP2	16	28904421	28936526	0.069936844	PASS
RABEPK	9	125200542	125234158	0.365190713	suppress_segment_too_large
RABGAP1	9	122940833	123104866	0.365190713	suppress_segment_too_large
RABGAP1	1	174159410	174995308	-0.027073548	PASS
RABGEF1	7	66682164	66811464	-0.750061359	PASS
RABGGTA	14	24265538	24271739	0.060212819	PASS
RABGGTE	1	75786197	75795079	0.033763446	PASS
RABIF	1	202878957	202889135	-0.256698369	PASS
RABL2A	2	113627229	113643396	-0.010901494	PASS
RABL2B	22	50767501	50783663	-0.808211634	PASS
RABL3	3	120686681	120742993	0.313454204	suppress_segment_too_large
RABL6	9	136807943	136841187	0.365190713	suppress_segment_too_large
RAC1	7	6374523	6403977	-0.69513118	PASS
RAC2	22	37225261	37244448	-0.575930959	PASS
RAC3	17	82031624	82034204	0.088516311	PASS
RACGAP1	12	49976923	50033136	-0.202191512	PASS
RACK1	5	181236909	181248096	-0.150979337	PASS
RAD1	5	34905264	34918989	0.055007813	PASS
RAD17	5	69369293	69414801	-0.293443042	PASS
RAD18	3	8775402	8963773	0.311018244	suppress_segment_too_large
RAD21	8	116845935	116874866	0.279445683	PASS
RAD21L1	20	1226056	1296421	-0.168668583	PASS

RAD23A	19	12945855	12953642	0.093487731	suppress_segment_too_large
RAD23B	9	107283137	107332194	0.365190713	suppress_segment_too_large
RAD50	5	132556019	132646344	-0.293443042	PASS
RAD51	15	40694774	40732339	-0.396255771	PASS
RAD51AP1	12	4538798	4560048	-0.086128028	PASS
RAD51AP2	2	17510584	17518439	0.040498426	PASS
RAD51B	14	67819779	68730218	0.060212819	PASS
RAD51C	17	58692573	58735611	0.088516311	PASS
RAD51D	17	35092208	35121522	0.060555011	PASS
RAD51L3-	17	35011349	35121493	0.060555011	PASS
RAD52	12	912077	990053	-0.086128028	PASS
RAD54B	8	94371960	94475109	0.279445683	PASS
RAD54L	1	46247688	46278473	0.033763446	PASS
RAD54L2	3	51541144	51668667	-0.234617007	PASS
RAD9A	11	67317871	67398410	0.182439925	suppress_segment_too_large
RAD9B	12	110501655	110532086	0.202141228	PASS
RADIL	7	4797055	4883719	-0.69513118	PASS
RAE1	20	57351010	57379211	-0.168668583	PASS
RAET1E	6	149883375	149898102	-0.035448111	PASS
RAET1G	6	149916878	149923121	-0.035448111	PASS
RAET1L	6	150018334	150025532	-0.035448111	PASS
RAF1	3	12583601	12664226	0.311018244	suppress_segment_too_large
RAG1	11	36510709	36593156	-0.405444717	PASS
RAG2	11	36575574	36598279	-0.405444717	PASS
RAI1	17	17681473	17811453	0.024610076	PASS
RAI14	5	34656237	34832627	0.055007813	PASS
RAI2	23	17800049	17861337	-0.012567603	PASS
RALA	7	39623483	39708124	-0.69513118	PASS
RALB	2	120240064	120294713	-0.475215623	PASS
RALBP1	18	9475009	9538116	-0.052305056	suppress_segment_too_large
RALGAPA	14	35538352	35809304	0.060212819	PASS
RALGAPA	20	20389552	20712488	-0.168668583	PASS
RALGAPB	20	38472816	38578861	-0.168668583	PASS
RALGDS	9	133097720	133149334	0.365190713	suppress_segment_too_large
RALGPS1	9	126914774	127223166	0.365190713	suppress_segment_too_large
RALGPS2	1	178725147	178921841	-0.027073548	PASS
RALY	20	33993646	34108308	-0.168668583	PASS
RALYL	8	84182787	84921844	0.279445683	PASS
RAMAC	15	82986207	82991057	-0.697600509	PASS
RAMACL	6	166585604	166587594	-0.035448111	PASS
RAMP1	2	237858893	237912114	0.025928102	PASS
RAMP2	17	42758447	42763041	0.088516311	PASS
RAMP3	7	45157791	45186302	-0.69513118	PASS
RAN	12	130871879	130877678	0.270848837	PASS
RANBP1	22	20115938	20127357	-0.575930959	PASS
RANBP10	16	67723066	67806652	-0.371357732	PASS

RANBP17	5	170861870	171300015	-0.150979337	PASS
RANBP2	2	108719481	108785811	-0.010901494	PASS
RANBP3	19	5916139	5978142	0.079632875	PASS
RANBP3L	5	36248434	36302114	0.055007813	PASS
RANBP6	9	6011043	6015625	-0.310444659	PASS
RANBP9	6	13621498	13711564	0.048820648	PASS
RANGAP1	22	41245611	41286251	-0.575930959	PASS
RANGRF	17	8288497	8290092	0.128406487	PASS
RAP1A	1	111542218	111716691	0.033763446	PASS
RAP1B	12	68610839	68671901	-0.202191512	PASS
RAP1GAP	1	21596215	21669363	0.033763446	PASS
RAP1GAP2	17	2755705	3037739	0.128406487	PASS
RAP1GDS	4	98261384	98443861	-0.011382299	PASS
RAP2A	13	97434222	97469128	-0.390786075	PASS
RAP2B	3	153162270	153170620	0.318278996	suppress_segment_too_large
RAP2C	23	132203024	132219480	-0.012567603	PASS
RAPGEF1	9	131576770	131740074	0.365190713	suppress_segment_too_large
RAPGEF2	4	159103013	159360174	-0.011382299	PASS
RAPGEF3	12	47734367	47771040	-0.202191512	PASS
RAPGEF4	2	172735274	173052893	0.039726562	PASS
RAPGEF5	7	22118238	22357144	-0.69513118	PASS
RAPGEF6	5	131423921	131635236	-0.293443042	PASS
RAPGEFL1	17	40177010	40195656	0.060555011	PASS
RAPH1	2	203394345	203535410	0.025928102	PASS
RAPSN	11	47437757	47449178	0.117376172	PASS
RARA	17	40309192	40357643	0.060555011	PASS
RARB	3	25174332	25597932	0.311018244	suppress_segment_too_large
RARG	12	53210567	53232980	-0.202191512	PASS
RARRES1	3	158696892	158732696	0.318278996	suppress_segment_too_large
RARRES2	7	150338317	150341674	-0.388946609	PASS
RARRES3	11	63536809	63546462	0.182439925	suppress_segment_too_large
RARS	5	168486445	168519299	-0.150979337	PASS
RARS2	6	87514378	87590003	-0.368590549	PASS
RASA1	5	87267888	87391931	-0.293443042	PASS
RASA2	3	141487047	141615342	-0.356957581	PASS
RASA3	13	113977783	114132611	-0.390786075	PASS
RASA4	7	102573807	102616757	-0.388946609	PASS
RASA4B	7	102482445	102517781	-0.388946609	PASS
RASAL1	12	113098819	113136239	0.202141228	PASS
RASAL2	1	178094141	178484147	-0.027073548	PASS
RASAL3	19	15451624	15464571	0.093487731	suppress_segment_too_large
RASD1	17	17494437	17496395	0.024610076	PASS
RASD2	22	35540868	35554001	-0.575930959	PASS
RASEF	9	82979585	83063177	0.365190713	suppress_segment_too_large
RASGEF1A	10	43194535	43266919	-0.404852538	PASS
RASGEF1B	4	81426393	82044244	-0.011382299	PASS

RASGEF1(	5	180100791	180209153	-0.150979337	PASS
RASGRF1	15	78959947	79090773	-0.697600509	PASS
RASGRF2	5	80960672	81230156	-0.293443042	PASS
RASGRP1	15	38488103	38565575	-0.396255771	PASS
RASGRP2	11	64726911	64745456	0.182439925	suppress_segment_too_large
RASGRP3	2	33436324	33564750	0.040498426	PASS
RASGRP4	19	38409051	38426305	0.093487731	suppress_segment_too_large
RASIP1	19	48720587	48740721	0.14996833	PASS
RASL10A	22	29312933	29319679	-0.575930959	PASS
RASL10B	17	35731649	35743521	0.060555011	PASS
RASL11A	13	27270327	27273690	-0.390786075	PASS
RASL11B	4	52862290	52866835	-0.011382299	PASS
RASL12	15	65053337	65076690	-0.697600509	PASS
RASSF1	3	50329782	50340980	-0.234617007	PASS
RASSF10	11	13009577	13012106	-0.405444717	PASS
RASSF2	20	4780023	4823645	-0.168668583	PASS
RASSF3	12	64507001	64697567	-0.202191512	PASS
RASSF4	10	44959407	44995891	-0.404852538	PASS
RASSF5	1	206507530	206589448	-0.256698369	PASS
RASSF6	4	73571550	73620631	-0.011382299	PASS
RASSF7	11	560404	564021	-0.333835828	PASS
RASSF8	12	25959029	26079892	0.362961408	suppress_segment_too_large
RASSF9	12	85800697	85836570	0.202141228	PASS
RAVER1	19	10316212	10333640	0.093487731	suppress_segment_too_large
RAVER2	1	64745095	64833232	0.033763446	PASS
RAX	18	59267035	59274086	-0.376397843	PASS
RAX2	19	3769089	3772221	0.079632875	PASS
RB1	13	48303726	48599436	-0.390786075	PASS
RB1CC1	8	52622456	52745843	-0.201142258	PASS
RBAK	7	5045821	5069488	-0.69513118	PASS
RBAK-RB.	7	4983718	5073221	-0.69513118	PASS
RBBP4	1	32651142	32686211	0.033763446	PASS
RBBP5	1	205086142	205122015	-0.256698369	PASS
RBBP6	16	24537693	24572863	0.069936844	PASS
RBBP7	23	16839283	16870414	-0.012567603	PASS
RBBP8	18	22798261	23026488	-0.376397843	PASS
RBBP8NL	20	62410237	62427533	-0.168668583	PASS
RBBP9	20	18486540	18497243	-0.168668583	PASS
RBCK1	20	407498	430966	-0.168668583	PASS
RBFA	18	80034358	80046397	-0.376397843	PASS
RBFOX1	16	5239802	7713338	0.069936844	PASS
RBFOX2	22	35738736	36028425	-0.575930959	PASS
RBFOX3	17	79089345	79516148	0.088516311	PASS
RBKS	2	27781364	27891098	0.040498426	PASS
RBL1	20	36996349	37095995	-0.168668583	PASS
RBL2	16	53433977	53491649	-0.371357732	PASS

RBM10	23	47144869	47186813	-0.012567603	PASS
RBM11	21	14216130	14228372	-0.304975024	PASS
RBM12	20	35648925	35664956	-0.168668583	PASS
RBM12B	8	93729356	93741017	0.279445683	PASS
RBM14	11	66616582	66627347	0.182439925	suppress_segment_too_large
RBM14-RI	11	66616626	66646469	0.182439925	suppress_segment_too_large
RBM15	1	110338506	110346681	0.033763446	PASS
RBM15B	3	51391268	51397908	-0.234617007	PASS
RBM17	10	6088987	6117457	0.039811807	PASS
RBM18	9	122237624	122264839	0.365190713	suppress_segment_too_large
RBM19	12	113816738	113966371	0.202141228	PASS
RBM20	10	110644397	110839469	0.063874692	PASS
RBM22	5	150690794	150701107	-0.293443042	PASS
RBM23	14	22893206	22919184	0.060212819	PASS
RBM24	6	17281346	17293875	0.048820648	PASS
RBM25	14	73058436	73123898	0.060212819	PASS
RBM26	13	79311824	79406477	-0.390786075	PASS
RBM27	5	146203600	146289132	-0.293443042	PASS
RBM28	7	128297685	128343908	-0.388946609	PASS
RBM3	23	48574449	48579066	-0.012567603	PASS
RBM33	7	155644451	155781485	-0.411415677	PASS
RBM34	1	235131183	235161457	-0.256698369	PASS
RBM38	20	57391407	57409333	-0.168668583	PASS
RBM39	20	35701347	35742312	-0.168668583	PASS
RBM4	11	66638617	66668374	0.182439925	suppress_segment_too_large
RBM41	23	107064420	107118823	-0.012567603	PASS
RBM42	19	35629030	35637686	0.093487731	suppress_segment_too_large
RBM43	2	151247940	151261879	-0.475215623	PASS
RBM44	2	237798389	237842808	0.025928102	PASS
RBM45	2	178112424	178139011	0.039726562	PASS
RBM46	4	154781213	154828813	-0.011382299	PASS
RBM47	4	40423267	40630875	-0.011382299	PASS
RBM48	7	92528773	92538005	-0.262778904	PASS
RBM4B	11	66664998	66677921	0.182439925	suppress_segment_too_large
RBM5	3	50088908	50119021	-0.234617007	PASS
RBM6	3	49940007	50100045	-0.234617007	PASS
RBM7	11	114400030	114414203	-0.356188624	PASS
RBM8A	1	145917714	145927678	-0.157385092	PASS
RBMS1	2	160272151	160493794	0.039726562	PASS
RBMS2	12	56521929	56596196	-0.202191512	PASS
RBMS3	3	28574791	30010391	0.311018244	suppress_segment_too_large
RBMX	23	136848004	136880764	-0.012567603	PASS
RBMX2	23	130401969	130413343	-0.012567603	PASS
RBMXL1	1	88979456	88992960	0.033763446	PASS
RBMXL2	11	7089027	7090900	-0.405444717	PASS
RBMXL3	23	115189427	115192868	-0.012567603	PASS

RBP1	3	139517434	139539829	-0.356957581	PASS
RBP2	3	139452884	139480747	0.313454204	suppress_segment_too_large
RBP3	10	47348371	47357875	-0.404852538	PASS
RBP4	10	93591687	93601744	-0.39678585	PASS
RBP5	12	7123684	7128942	-0.086128028	PASS
RBP7	1	9997206	10016020	0.373964873	suppress_segment_too_large
RBPJ	4	26163455	26435131	-0.458181871	PASS
RBPJL	20	45306851	45317824	-0.168668583	PASS
RBPMS	8	30384479	30572261	-0.345962679	PASS
RBPMS2	15	64739892	64775587	-0.697600509	PASS
RBSN	3	15070073	15099163	0.311018244	suppress_segment_too_large
RBX1	22	40951347	40973309	-0.575930959	PASS
RC3H1	1	173931214	174022297	-0.027073548	PASS
RC3H2	9	122844556	122905341	0.365190713	suppress_segment_too_large
RCAN1	21	34513142	34615142	0.12860881	suppress_segment_too_large
RCAN2	6	46220736	46491972	0.048820648	PASS
RCAN3	1	24502351	24541040	0.033763446	PASS
RCBTB1	13	49531946	49585583	-0.390786075	PASS
RCBTB2	13	48488959	48533256	-0.390786075	PASS
RCC1	1	28505943	28539300	0.033763446	PASS
RCC1L	7	75027122	75074228	-0.262778904	PASS
RCC2	1	17406760	17439724	0.033763446	PASS
RCCD1	15	90954870	90963125	-0.697600509	PASS
RCE1	11	66842835	66846546	0.182439925	suppress_segment_too_large
RCHY1	4	75479037	75514764	-0.011382299	PASS
RCL1	9	4792869	4885917	-0.310444659	PASS
RCN1	11	32090904	32105755	-0.405444717	PASS
RCN2	15	76931619	76954392	-0.697600509	PASS
RCN3	19	49527618	49546962	0.14996833	PASS
RCOR1	14	102592661	102730576	-0.192197564	PASS
RCOR2	11	63911221	63916844	0.182439925	suppress_segment_too_large
RCOR3	1	211258377	211316385	-0.256698369	PASS
RCSD1	1	167630093	167706249	-0.027073548	PASS
RCVRN	17	9896320	9905621	-0.139031004	PASS
RD3	1	211476522	211492917	-0.256698369	PASS
RD3L	14	103940426	103942561	-0.192197564	PASS
RDH10	8	73294612	73325281	-0.201142258	PASS
RDH11	14	67676801	67695814	0.060212819	PASS
RDH12	14	67701886	67734452	0.060212819	PASS
RDH13	19	55039108	55071291	0.121336758	PASS
RDH14	2	18554723	18560680	0.040498426	PASS
RDH16	12	56951431	56959374	-0.202191512	PASS
RDH5	12	55720367	55724705	-0.202191512	PASS
RDH8	19	10013249	10022279	0.093487731	suppress_segment_too_large
RDM1	17	35918066	35930773	0.060555011	PASS
RDX	11	109864295	110296722	-0.356188624	PASS

REC114	15	73443158	73560014	-0.697600509	PASS
REC8	14	24171853	24180257	0.060212819	PASS
RECK	9	36036433	36124451	-0.310444659	PASS
RECQL	12	21468911	21501669	0.362961408	suppress_segment_too_large
RECQL4	8	144511288	144517845	0.307788765	PASS
RECQL5	17	75626845	75667189	0.088516311	PASS
REEP1	2	86213993	86338083	0.066915641	PASS
REEP2	5	138439017	138446969	-0.293443042	PASS
REEP3	10	63521363	63625123	0.072405807	PASS
REEP4	8	22138020	22141951	-0.345962679	PASS
REEP5	5	112876379	112922539	-0.293443042	PASS
REEP6	19	1490747	1497927	0.079632875	PASS
REG1A	2	79120362	79123419	-0.372959126	PASS
REG1B	2	79085030	79088019	-0.372959126	PASS
REG3A	2	79157003	79159753	-0.372959126	PASS
REG3G	2	79025686	79028505	-0.372959126	PASS
REG4	1	119794018	119811660	-0.157385092	PASS
REL	2	60881521	60931610	-0.372959126	PASS
RELA	11	65653596	65663094	0.182439925	suppress_segment_too_large
RELB	19	45001430	45038198	0.14996833	PASS
RELCH	18	62187255	62310217	-0.376397843	PASS
RELL1	4	37590800	37686376	-0.011382299	PASS
RELL2	5	141636950	141641077	-0.293443042	PASS
RELN	7	103471784	103989516	-0.388946609	PASS
RELT	11	73376264	73397474	0.062969153	PASS
REM1	20	31475293	31484905	-0.168668583	PASS
REM2	14	22883165	22887686	0.060212819	PASS
REN	1	204154819	204190324	-0.256698369	PASS
RENBP	23	153935263	153944691	-0.012567603	PASS
REP15	12	27696519	27697596	0.362961408	suppress_segment_too_large
REPIN1	7	150368189	150374044	-0.388946609	PASS
REPS1	6	138903493	138988261	-0.035448111	PASS
REPS2	23	16946691	17153280	-0.012567603	PASS
RER1	1	2391775	2405444	0.373964873	suppress_segment_too_large
RERE	1	8352397	8817643	0.373964873	suppress_segment_too_large
RERG	12	15107783	15348675	0.362961408	suppress_segment_too_large
RERGL	12	18080869	18320107	0.362961408	suppress_segment_too_large
RESP18	2	219327409	219333177	0.025928102	PASS
REST	4	56907876	56966678	-0.011382299	PASS
RET	10	43077027	43130351	-0.404852538	PASS
RETN	19	7669044	7670454	0.079632875	PASS
RETNLB	3	108743424	108757384	0.313454204	suppress_segment_too_large
RETREG1	5	16473038	16617058	0.055007813	PASS
RETREG2	2	219176225	219185479	0.025928102	PASS
RETREG3	17	42579513	42610623	0.088516311	PASS
RETSAT	2	85342088	85354620	0.066915641	PASS

REV1	2	99400475	99490035	0.048238121	PASS
REV3L	6	111299028	111483715	-0.368590549	PASS
REX1BD	19	18588685	18592336	0.093487731	suppress_segment_too_large
REXO1	19	1815246	1848463	0.079632875	PASS
REXO2	11	114439386	114450279	-0.356188624	PASS
REXO4	9	133406059	133418096	0.365190713	suppress_segment_too_large
REXO5	16	20806429	20849668	0.069936844	PASS
RFC1	4	39287456	39366375	-0.011382299	PASS
RFC2	7	74231499	74254458	-0.262778904	PASS
RFC3	13	33818049	33966558	-0.390786075	PASS
RFC4	3	186789880	186807058	0.318278996	suppress_segment_too_large
RFC5	12	118013588	118033130	0.202141228	PASS
RFESD	5	95646754	95684773	-0.293443042	PASS
RFFL	17	35005990	35089319	0.060555011	PASS
RFK	9	76385517	76394517	0.365190713	suppress_segment_too_large
RFLNA	12	123973241	124316024	0.202141228	PASS
RFLNB	17	439978	445939	0.128406487	PASS
RFNG	17	82047902	82051831	0.088516311	PASS
RFPL1	22	29438583	29442455	-0.575930959	PASS
RFPL2	22	32190435	32203477	-0.575930959	PASS
RFPL3	22	32354885	32361161	-0.575930959	PASS
RFPL4A	19	55759014	55763175	-0.180829161	PASS
RFPL4AL1	19	55769141	55773179	-0.180829161	PASS
RFPL4B	6	112347330	112351296	-0.368590549	PASS
RFT1	3	53088483	53130462	-0.234617007	PASS
RFTN1	3	16313574	16514026	0.311018244	suppress_segment_too_large
RFTN2	2	197568224	197676045	0.025928102	PASS
RFWD3	16	74621394	74666881	-0.371357732	PASS
RFX1	19	13961538	14007039	0.093487731	suppress_segment_too_large
RFX2	19	5993164	6199572	0.079632875	PASS
RFX3	9	3218297	3526004	-0.310444659	PASS
RFX4	12	106582907	106762803	0.202141228	PASS
RFX5	1	151340640	151347357	0.103015788	PASS
RFX6	6	116877212	116932163	-0.368590549	PASS
RFX7	15	56087280	56243266	-0.697600509	PASS
RFX8	2	101397361	101474703	0.048238121	PASS
RFXANK	19	19192229	19201869	0.093487731	suppress_segment_too_large
RFXAP	13	36819224	36829104	-0.390786075	PASS
RGCC	13	41457559	41470882	-0.390786075	PASS
RGL1	1	183636085	183928531	-0.027073548	PASS
RGL2	6	33291654	33299324	0.048820648	PASS
RGL3	19	11384341	11419342	0.093487731	suppress_segment_too_large
RGL4	22	23688136	23699176	-0.575930959	PASS
RGMA	15	93035273	93089204	-0.697600509	PASS
RGMB	5	98768650	98798643	-0.293443042	PASS
RGN	23	47078355	47093314	-0.012567603	PASS

RGP1	9	35749287	35758575	-0.310444659	PASS
RGPD1	2	86907953	87013976	-0.340781246	PASS
RGPD2	2	87755955	87825952	-0.340781246	PASS
RGPD3	2	106391290	106468376	-0.532032081	PASS
RGPD4	2	107826937	107890841	-0.532032081	PASS
RGPD6	2	110513812	110577185	-0.010901494	PASS
RGPD8	2	112370092	112434488	-0.010901494	PASS
RGR	10	84245053	84259960	0.072405807	PASS
RGS1	1	192575727	192580031	-0.027073548	PASS
RGS10	10	119499828	119542708	0.063874692	PASS
RGS11	16	268301	275980	0.069936844	PASS
RGS12	4	3293028	3439913	0.279089364	PASS
RGS13	1	192636138	192660306	-0.027073548	PASS
RGS14	5	177357837	177372601	-0.150979337	PASS
RGS16	1	182598623	182604408	-0.027073548	PASS
RGS17	6	153004459	153131249	-0.035448111	PASS
RGS18	1	192158457	192185815	-0.027073548	PASS
RGS19	20	64073181	64079988	-0.168668583	PASS
RGS2	1	192809039	192812283	-0.027073548	PASS
RGS20	8	53851808	53959303	-0.201142258	PASS
RGS21	1	192316992	192367285	-0.027073548	PASS
RGS22	8	99960936	100131268	0.279445683	PASS
RGS3	9	113444731	113597743	0.365190713	suppress_segment_too_large
RGS4	1	163068775	163076802	-0.027073548	PASS
RGS5	1	163111121	163321791	-0.027073548	PASS
RGS6	14	71932439	72566529	0.060212819	PASS
RGS7	1	240775515	241357230	-0.648598641	PASS
RGS7BP	5	64506257	64612312	-0.293443042	PASS
RGS8	1	182641816	182684576	-0.027073548	PASS
RGS9	17	65100812	65227703	0.088516311	PASS
RGS9BP	19	32675407	32678300	0.093487731	suppress_segment_too_large
RGSL1	1	182409192	182560599	-0.027073548	PASS
RHAG	6	49605158	49636884	0.048820648	PASS
RHBDD1	2	226835581	226999215	0.025928102	PASS
RHBDD2	7	75842602	75888926	-0.262778904	PASS
RHBDD3	22	29259852	29268209	-0.575930959	PASS
RHBDF1	16	58059	76355	0.069936844	PASS
RHBDF2	17	76470891	76501790	0.088516311	PASS
RHBDL1	16	675666	678268	0.069936844	PASS
RHBDL2	1	38885807	38941799	0.033763446	PASS
RHBDL3	17	32266176	32324661	0.060555011	PASS
RHBG	1	156369212	156385219	0.103015788	PASS
RHCE	1	25362249	25430192	0.033763446	PASS
RHCG	15	89471398	89496613	-0.697600509	PASS
RHD	1	25272393	25330445	0.033763446	PASS
RHEB	7	151466012	151520120	-0.388946609	PASS

RHEBL1	12	49064685	49070025	-0.202191512	PASS
RHEX	1	206052723	206102459	-0.256698369	PASS
RHNO1	12	2876258	2889523	-0.086128028	PASS
RHO	3	129528640	129535169	0.313454204	suppress_segment_too_large
RHOA	3	49359145	49412998	-0.234617007	PASS
RHOB	2	20447074	20449445	0.040498426	PASS
RHOBTB1	10	60869438	61001440	0.072405807	PASS
RHOBTB2	8	22987417	23020199	-0.345962679	PASS
RHOBTB3	5	95713522	95824383	-0.293443042	PASS
RHOC	1	112701106	112707434	0.033763446	PASS
RHOD	11	67056818	67072013	0.182439925	suppress_segment_too_large
RHOF	12	121777754	121803403	0.202141228	PASS
RHOG	11	3826978	3840983	-0.333835828	PASS
RHOH	4	40191053	40246967	-0.011382299	PASS
RHOJ	14	63204114	63293219	0.060212819	PASS
RHOQ	2	46541806	46583121	0.040498426	PASS
RHOT1	17	32142454	32253374	0.060555011	PASS
RHOT2	16	668086	674174	0.069936844	PASS
RHOU	1	228735077	228746669	-0.256698369	PASS
RHOV	15	40872214	40874289	-0.396255771	PASS
RHOXF1	23	120109053	120115937	-0.012567603	PASS
RHOXF2	23	120158561	120165630	-0.012567603	PASS
RHOXF2B	23	120070672	120077705	-0.012567603	PASS
RHPN1	8	143368887	143384220	0.307788765	PASS
RHPN2	19	32978593	33064888	0.093487731	suppress_segment_too_large
RIBC1	23	53422690	53431120	-0.012567603	PASS
RIBC2	22	45413691	45432496	-0.808211634	PASS
RIC1	9	5629025	5776557	-0.310444659	PASS
RIC3	11	8106093	8169055	-0.405444717	PASS
RIC8A	11	207511	215113	-0.333835828	PASS
RIC8B	12	106774595	106889316	0.202141228	PASS
RICTOR	5	38937919	39074408	0.055007813	PASS
RIDA	8	98102344	98117241	0.279445683	PASS
RIF1	2	151409883	151508013	-0.475215623	PASS
RIIAD1	1	151710433	151729805	0.103015788	PASS
RILP	17	1646145	1650077	0.128406487	PASS
RILPL1	12	123470054	123533718	0.202141228	PASS
RILPL2	12	123410683	123436717	0.202141228	PASS
RIMBP2	12	130396137	130716281	-0.240609783	PASS
RIMBP3	22	18605815	18611919	-0.575930959	PASS
RIMBP3B	22	21383374	21389478	-0.575930959	PASS
RIMKLA	1	42380795	42422578	0.033763446	PASS
RIMKLB	12	8681600	8783095	0.362961408	suppress_segment_too_large
RIMS1	6	71886703	72403143	-0.368590549	PASS
RIMS2	8	103500748	104256094	0.279445683	PASS
RIMS3	1	40620679	40665657	0.033763446	PASS

RIMS4	20	44751808	44810338	-0.168668583	PASS
RIN1	11	66330242	66336840	0.182439925	suppress_segment_too_large
RIN2	20	19757606	20002459	-0.168668583	PASS
RIN3	14	92513774	92688994	-0.192197564	PASS
RING1	6	33208495	33212722	0.048820648	PASS
RINL	19	38867834	38878279	0.093487731	suppress_segment_too_large
RINT1	7	105532085	105567677	-0.388946609	PASS
RIOK1	6	7389496	7418037	0.048820648	PASS
RIOK2	5	97160867	97183260	-0.293443042	PASS
RIOK3	18	23452823	23486603	-0.376397843	PASS
RIOX1	14	73490964	73493392	0.060212819	PASS
RIOX2	3	97941818	97972457	0.313454204	suppress_segment_too_large
RIPK1	6	3063991	3115187	0.048820648	PASS
RIPK2	8	89757747	89791063	0.279445683	PASS
RIPK3	14	24336021	24340045	0.060212819	PASS
RIPK4	21	41739369	41767106	-0.064425456	suppress_segment_too_large
RIPOR1	16	67518418	67546788	-0.371357732	PASS
RIPOR2	6	24804281	25042170	0.048820648	PASS
RIPOR3	20	50586108	50691528	-0.168668583	PASS
RIPPLY1	23	106900063	106903335	-0.012567603	PASS
RIPPLY2	6	83853266	83857515	-0.368590549	PASS
RIPPLY3	21	37006150	37019659	-0.064425456	suppress_segment_too_large
RIT1	1	155897808	155911404	0.103015788	PASS
RIT2	18	42743227	43115691	-0.376397843	PASS
RITA1	12	113185526	113192368	0.202141228	PASS
RLBP1	15	89209869	89221751	-0.697600509	PASS
RLF	1	40161373	40240921	0.033763446	PASS
RLIM	23	74585217	74614617	-0.012567603	PASS
RLN1	9	5334969	5339873	-0.310444659	PASS
RLN2	9	5299868	5304969	-0.310444659	PASS
RLN3	19	14028148	14031042	0.093487731	suppress_segment_too_large
RMC1	18	23503470	23531807	-0.376397843	PASS
RMDN1	8	86468257	86514357	0.279445683	PASS
RMDN2	2	37923187	38067142	0.040498426	PASS
RMDN3	15	40735884	40755851	-0.396255771	PASS
RMI1	9	83980711	84004074	0.365190713	suppress_segment_too_large
RMI2	16	11249619	11381662	0.069936844	PASS
RMND1	6	151404762	151452181	-0.035448111	PASS
RMND5A	2	86720173	86778041	0.066915641	PASS
RMND5B	5	178130996	178150565	-0.150979337	PASS
RNASE1	14	20801228	20803278	0.060212819	PASS
RNASE10	14	20505537	20511169	0.060212819	PASS
RNASE11	14	20583559	20609884	0.060212819	PASS
RNASE12	14	20590193	20590823	0.060212819	PASS
RNASE13	14	21032820	21034785	0.060212819	PASS
RNASE2	14	20955452	20956436	0.060212819	PASS

RNASE3	14	20891399	20892348	0.060212819	PASS
RNASE4	14	20684100	20701215	0.060212819	PASS
RNASE6	14	20781051	20782467	0.060212819	PASS
RNASE7	14	21042226	21044234	0.060212819	PASS
RNASE8	14	21057822	21058455	0.060212819	PASS
RNASE9	14	20556093	20560931	0.060212819	PASS
RNASEH1	2	3544793	3558616	0.040498426	PASS
RNASEH2	19	12806556	12815201	0.093487731	suppress_segment_too_large
RNASEH2	13	50909678	51024120	-0.390786075	PASS
RNASEH2	11	65714005	65720947	0.182439925	suppress_segment_too_large
RNASEK	17	7012417	7014532	0.128406487	PASS
RNASEK-(	17	7012635	7017520	0.128406487	PASS
RNASEL	1	182573634	182589256	-0.027073548	PASS
RNASET2	6	166929504	166957191	-0.035448111	PASS
RND1	12	48857145	48865898	-0.202191512	PASS
RND2	17	43025241	43032036	0.088516311	PASS
RND3	2	150468195	150539011	-0.475215623	PASS
RNF10	12	120533480	120577594	0.202141228	PASS
RNF103	2	86603393	86623866	0.066915641	PASS
RNF103-C	2	86505668	86721122	0.066915641	PASS
RNF11	1	51236271	51273455	0.033763446	PASS
RNF111	15	58865175	59097419	-0.697600509	PASS
RNF112	17	19411125	19417276	0.024610076	PASS
RNF113A	23	119870475	119871827	-0.012567603	PASS
RNF113B	13	98175785	98177265	-0.390786075	PASS
RNF114	20	49936336	49953892	-0.168668583	PASS
RNF115	1	145738868	145824077	-0.157385092	PASS
RNF121	11	71928701	71997597	0.062969153	PASS
RNF122	8	33547755	33567125	-0.345962679	PASS
RNF123	3	49689499	49721529	-0.234617007	PASS
RNF125	18	32018372	32073213	-0.376397843	PASS
RNF126	19	647526	663277	0.079632875	PASS
RNF128	23	106693794	106796993	-0.012567603	PASS
RNF13	3	149812708	149962139	0.318278996	suppress_segment_too_large
RNF130	5	179911651	180072118	-0.150979337	PASS
RNF133	7	122697712	122699156	-0.388946609	PASS
RNF135	17	30968785	30999911	0.060555011	PASS
RNF138	18	32091855	32131561	-0.376397843	PASS
RNF139	8	124474738	124487914	0.279445683	PASS
RNF14	5	141958328	141990291	-0.293443042	PASS
RNF141	11	10511678	10541230	-0.405444717	PASS
RNF144A	2	6917392	7068286	0.040498426	PASS
RNF144B	6	18387350	18468874	0.048820648	PASS
RNF145	5	159157409	159210053	-0.150979337	PASS
RNF146	6	127266610	127288567	-0.458570262	PASS
RNF148	7	122701664	122702967	-0.388946609	PASS

RNF149	2	101271219	101308701	0.048238121	PASS
RNF150	4	140859807	141212877	-0.011382299	PASS
RNF151	16	1966823	1968975	0.069936844	PASS
RNF152	18	61808063	61894247	-0.376397843	PASS
RNF157	17	76142453	76240373	0.088516311	PASS
RNF165	18	46326809	46463140	-0.376397843	PASS
RNF166	16	88696495	88706421	-0.371357732	PASS
RNF167	17	4940008	4945222	0.128406487	PASS
RNF168	3	196468783	196503768	0.326834516	PASS
RNF169	11	74748868	74842413	0.062969153	PASS
RNF17	13	24764152	24879921	-0.390786075	PASS
RNF170	8	42849637	42897290	-0.201142258	PASS
RNF175	4	153710125	153760235	-0.011382299	PASS
RNF180	5	64165844	64372869	-0.293443042	PASS
RNF181	2	85595725	85597613	0.066915641	PASS
RNF182	6	13924446	13980302	0.048820648	PASS
RNF183	9	113297093	113303376	0.365190713	suppress_segment_too_large
RNF185	22	31160183	31207019	-0.575930959	PASS
RNF186	1	19814029	19815278	0.033763446	PASS
RNF187	1	228487061	228495766	-0.256698369	PASS
RNF19A	8	100257060	100336218	0.279445683	PASS
RNF19B	1	32936445	32964685	0.033763446	PASS
RNF2	1	185045364	185102608	-0.027073548	PASS
RNF20	9	101533851	101563344	0.365190713	suppress_segment_too_large
RNF207	1	6205475	6221299	0.373964873	suppress_segment_too_large
RNF208	9	137220247	137221581	0.365190713	suppress_segment_too_large
RNF212	4	1056250	1113562	0.279089364	PASS
RNF212B	14	23185316	23273477	0.060212819	PASS
RNF213	17	80260866	80398786	0.088516311	PASS
RNF214	11	117232625	117286445	-0.356188624	PASS
RNF215	22	30368811	30421771	-0.575930959	PASS
RNF216	7	5620047	5781739	-0.69513118	PASS
RNF217	6	124962545	125092633	-0.458570262	PASS
RNF219	13	78614291	78659179	-0.390786075	PASS
RNF220	1	44405194	44651724	0.033763446	PASS
RNF222	17	8390704	8397826	0.128406487	PASS
RNF223	1	1070966	1074307	0.373964873	suppress_segment_too_large
RNF224	9	137227271	137229638	0.365190713	suppress_segment_too_large
RNF225	19	58396090	58397079	0.063781462	PASS
RNF24	20	3927309	4015582	-0.168668583	PASS
RNF25	2	218663864	218672411	0.025928102	PASS
RNF26	11	119334527	119337313	-0.356188624	PASS
RNF31	14	24146683	24160661	0.060212819	PASS
RNF32	7	156640281	156677130	-0.411415677	PASS
RNF34	12	121400041	121430623	0.202141228	PASS
RNF38	9	36336396	36487548	-0.310444659	PASS

RNF39	6	30070266	30075887	0.048820648	PASS
RNF4	4	2462220	2625320	0.279089364	PASS
RNF40	16	30761745	30776307	0.069936844	PASS
RNF41	12	56202175	56221933	-0.202191512	PASS
RNF43	17	58352500	58417595	0.088516311	PASS
RNF44	5	176526697	176538025	-0.150979337	PASS
RNF5	6	32178354	32180793	0.048820648	PASS
RNF6	13	26132115	26222493	-0.390786075	PASS
RNF7	3	141738204	141747560	-0.356957581	PASS
RNF8	6	37353972	37394738	0.048820648	PASS
RNFT1	17	59952240	59964761	0.088516311	PASS
RNFT2	12	116738178	116853631	0.202141228	PASS
RNGTT	6	88610272	88963721	-0.368590549	PASS
RNH1	11	494512	507300	-0.333835828	PASS
RNLS	10	88273864	88584530	-1.64589449	suppress_large_homdel
RNMT	18	13726660	13764558	-0.052305056	suppress_segment_too_large
RNPC3	1	103525691	103555239	0.033763446	PASS
RNPEP	1	201982372	202006147	-0.256698369	PASS
RNPEPL1	2	240565804	240581372	0.025928102	PASS
RNPS1	16	2253116	2268412	0.069936844	PASS
ROBO1	3	78597240	79767815	0.313454204	suppress_segment_too_large
ROBO2	3	75906695	77649964	-0.234617007	PASS
ROBO3	11	124865386	124881470	-0.419612865	PASS
ROBO4	11	124883691	124898500	-0.419612865	PASS
ROCK1	18	20946906	21111851	-0.376397843	PASS
ROCK2	2	11179761	11348330	0.040498426	PASS
ROGDI	16	4796968	4802950	0.069936844	PASS
ROM1	11	62611722	62615120	0.182439925	suppress_segment_too_large
ROMO1	20	35699272	35700984	-0.168668583	PASS
ROPN1	3	123968521	123992178	0.313454204	suppress_segment_too_large
ROPN1B	3	125969144	125983454	0.313454204	suppress_segment_too_large
ROPN1L	5	10441524	10472029	0.055007813	PASS
ROR1	1	63774022	64181498	0.033763446	PASS
ROR2	9	91563091	91950162	0.365190713	suppress_segment_too_large
RORA	15	60488284	61229319	-0.697600509	PASS
RORB	9	74497365	74693177	0.365190713	suppress_segment_too_large
RORC	1	151806071	151831872	0.103015788	PASS
ROS1	6	117288300	117425855	-0.368590549	PASS
RP1	8	54509422	54871720	-0.201142258	PASS
RP1L1	8	10606349	10712187	-0.345962679	PASS
RP2	23	46836940	46882358	-0.012567603	PASS
RP9	7	33094797	33109401	-0.69513118	PASS
RPA1	17	1829702	1900082	0.128406487	PASS
RPA2	1	27891524	27914746	0.033763446	PASS
RPA3	7	7636518	7718607	-0.69513118	PASS
RPA4	23	96883908	96885467	-0.012567603	PASS

RPAIN	17	5419641	5432876	0.128406487	PASS
RPAP1	15	41517176	41544269	-0.396255771	PASS
RPAP2	1	92298965	92402056	0.033763446	PASS
RPAP3	12	47661249	47706061	-0.202191512	PASS
RPE	2	210002565	210022259	0.025928102	PASS
RPE65	1	68428822	68449959	0.033763446	PASS
RPEL1	10	103245887	103248016	-0.367947924	PASS
RPF1	1	84479259	84497790	0.033763446	PASS
RPF2	6	110982015	111028263	-0.368590549	PASS
RPGR	23	38269163	38327564	-0.012567603	PASS
RPGRIP1	14	21287939	21351301	0.060212819	PASS
RPGRIP1L	16	53598153	53703938	-0.371357732	PASS
RPH3A	12	112570380	112898881	0.202141228	PASS
RPH3AL	17	212389	386254	0.128406487	PASS
RPIA	2	88691644	88750935	-0.340781246	PASS
RPL10	23	154389955	154409168	-0.012567603	PASS
RPL10A	6	35468408	35470785	0.048820648	PASS
RPL10L	14	46651010	46651821	0.060212819	PASS
RPL11	1	23691742	23696835	0.033763446	PASS
RPL12	9	127447674	127451405	0.365190713	suppress_segment_too_large
RPL13	16	89560657	89566828	-0.371357732	PASS
RPL13A	19	49487554	49492308	0.14996833	PASS
RPL14	3	40457292	40468587	-0.234617007	PASS
RPL15	3	23916545	23924374	0.311018244	suppress_segment_too_large
RPL17	18	49488453	49492523	-0.376397843	PASS
RPL17-C18	18	49481681	49492479	-0.376397843	PASS
RPL18	19	48615328	48619536	0.14996833	PASS
RPL18A	19	17859876	17864153	0.093487731	suppress_segment_too_large
RPL19	17	39200283	39204732	0.060555011	PASS
RPL21	13	27251309	27256691	-0.390786075	PASS
RPL22	1	6185020	6209389	0.373964873	suppress_segment_too_large
RPL22L1	3	170864875	170870483	0.318278996	suppress_segment_too_large
RPL23	17	38847865	38853843	0.060555011	PASS
RPL23A	17	28719393	28724359	0.060555011	PASS
RPL24	3	101681091	101686782	0.313454204	suppress_segment_too_large
RPL26	17	8377516	8383250	0.128406487	PASS
RPL26L1	5	172958729	172969771	-0.150979337	PASS
RPL27	17	42998273	43002959	0.088516311	PASS
RPL27A	11	8682411	8714759	-0.405444717	PASS
RPL28	19	55385345	55403250	0.121336758	PASS
RPL29	3	51993522	51995942	-0.234617007	PASS
RPL3	22	39312882	39320389	-0.575930959	PASS
RPL30	8	98024851	98046469	0.279445683	PASS
RPL31	2	101001715	101024032	0.048238121	PASS
RPL32	3	12834485	12841588	0.311018244	suppress_segment_too_large
RPL34	4	108620566	108630412	-0.011382299	PASS

RPL35	9	124857880	124861981	0.365190713	suppress_segment_too_large
RPL35A	3	197949980	197956610	0.326834516	PASS
RPL36	19	5674947	5691876	0.079632875	PASS
RPL36A	23	101390824	101396154	-0.012567603	PASS
RPL36A-H	23	101391011	101412297	-0.012567603	PASS
RPL36AL	14	49618519	49620685	0.060212819	PASS
RPL37	5	40825262	40835335	-0.293443042	PASS
RPL37A	2	216498189	216579180	0.025928102	PASS
RPL38	17	74203582	74210655	0.088516311	PASS
RPL39	23	119786504	119791643	-0.012567603	PASS
RPL39L	3	187120948	187180908	0.318278996	suppress_segment_too_large
RPL3L	16	1943974	1957606	0.069936844	PASS
RPL4	15	66498015	66524532	-0.697600509	PASS
RPL41	12	56116586	56117943	-0.202191512	PASS
RPL5	1	92831983	92841924	0.033763446	PASS
RPL6	12	112405190	112418838	0.202141228	PASS
RPL7	8	73290267	73295789	-0.201142258	PASS
RPL7A	9	133348214	133351426	0.365190713	suppress_segment_too_large
RPL7L1	6	42879618	42889925	0.048820648	PASS
RPL8	8	144789765	144792587	0.307788765	PASS
RPL9	4	39452521	39458949	-0.011382299	PASS
RPLP0	12	120196686	120201235	0.202141228	PASS
RPLP1	15	69452784	69456194	-0.697600509	PASS
RPLP2	11	809647	812880	-0.333835828	PASS
RPN1	3	128619970	128681075	0.313454204	suppress_segment_too_large
RPN2	20	37178410	37241623	-0.168668583	PASS
RPP14	3	58306247	58324695	-0.234617007	PASS
RPP21	6	30345131	30346884	0.048820648	PASS
RPP25	15	74954416	74957464	-0.697600509	PASS
RPP25L	9	34610486	34612104	-0.310444659	PASS
RPP30	10	90871716	90908553	-0.39678585	PASS
RPP38	10	15097180	15139818	0.039811807	PASS
RPP40	6	4994732	5004063	0.048820648	PASS
RPRD1A	18	35984387	36067576	-0.376397843	PASS
RPRD1B	20	38033546	38127780	-0.168668583	PASS
RPRD2	1	150363091	150476566	0.103015788	PASS
RPRM	2	153477338	153478808	-0.475215623	PASS
RPRML	17	46978156	46979248	0.088516311	PASS
RPS10	6	34417454	34426125	0.048820648	PASS
RPS10-NU	6	34284887	34426071	0.048820648	PASS
RPS11	19	49496365	49499689	0.14996833	PASS
RPS12	6	132814441	132817564	-0.458570262	PASS
RPS13	11	17074389	17077787	-0.405444717	PASS
RPS14	5	150442635	150449756	-0.293443042	PASS
RPS15	19	1438358	1440494	0.079632875	PASS
RPS15A	16	18781295	18790383	0.069936844	PASS

RPS16	19	39433207	39435948	0.093487731	suppress_segment_too_large
RPS17	15	82536750	82540564	-0.697600509	PASS
RPS18	6	33272010	33276510	0.048820648	PASS
RPS19	19	41859918	41872926	0.093487731	suppress_segment_too_large
RPS19BP1	22	39529093	39532855	-0.575930959	PASS
RPS2	16	1962052	1964860	0.069936844	PASS
RPS20	8	56067295	56074581	-0.201142258	PASS
RPS21	20	62387116	62388520	-0.168668583	PASS
RPS23	5	82273358	82278577	-0.293443042	PASS
RPS24	10	78033732	78056813	0.072405807	PASS
RPS25	11	119015712	119018691	-0.356188624	PASS
RPS26	12	56041351	56044697	-0.202191512	PASS
RPS27	1	153990755	153992155	0.103015788	PASS
RPS27A	2	55231903	55235853	0.040498426	PASS
RPS27L	15	63125872	63158021	-0.697600509	PASS
RPS28	19	8321158	8323340	0.079632875	PASS
RPS29	14	49570984	49599164	0.060212819	PASS
RPS3	11	75399486	75422280	0.062969153	PASS
RPS3A	4	151099573	151104652	-0.011382299	PASS
RPS4X	23	72255679	72277300	-0.012567603	PASS
RPS5	19	58386400	58394806	0.063781462	PASS
RPS6	9	19375715	19380254	-0.310444659	PASS
RPS6KA1	1	26529761	26575030	0.033763446	PASS
RPS6KA2	6	166409364	166906451	-0.035448111	PASS
RPS6KA3	23	20149911	20267519	-0.012567603	PASS
RPS6KA4	11	64359148	64372215	0.182439925	suppress_segment_too_large
RPS6KA5	14	90847862	91060636	-0.192197564	PASS
RPS6KA6	23	84058346	84187907	-0.012567603	PASS
RPS6KB1	17	59893046	59950564	0.088516311	PASS
RPS6KB2	11	67428460	67435408	0.182439925	suppress_segment_too_large
RPS6KC1	1	213051233	213274773	-0.256698369	PASS
RPS6KL1	14	74903954	74923396	-0.192197564	PASS
RPS7	2	3575205	3580920	0.040498426	PASS
RPS8	1	44775251	44778779	0.033763446	PASS
RPS9	19	54200742	54249003	0.206912349	PASS
RPSA	3	39406689	39412542	-0.234617007	PASS
RPTN	1	152153595	152159228	0.103015788	PASS
RPTOR	17	80544819	80966371	0.088516311	PASS
RPUSD1	16	784974	788397	0.069936844	PASS
RPUSD2	15	40569300	40574943	-0.396255771	PASS
RPUSD3	3	9837849	9844602	0.311018244	suppress_segment_too_large
RPUSD4	11	126202094	126211692	-0.419612865	PASS
RRAD	16	66921679	66925644	-0.371357732	PASS
RRAGA	9	19049395	19050983	-0.310444659	PASS
RRAGB	23	55717739	55758774	-0.012567603	PASS
RRAGC	1	38838198	38859823	0.033763446	PASS

RRAGD	6	89364636	89412270	-0.368590549	PASS
RRAS	19	49635292	49640201	0.14996833	PASS
RRAS2	11	14277926	14364506	-0.405444717	PASS
RRBP1	20	17613678	17682295	-0.168668583	PASS
RREB1	6	7107597	7251980	0.048820648	PASS
RRH	4	109827994	109844604	-0.011382299	PASS
RRM1	11	4094707	4138876	-0.333835828	PASS
RRM2	2	10120698	10131419	0.040498426	PASS
RRM2B	8	102204502	102239118	0.279445683	PASS
RRN3	16	15060022	15094317	0.069936844	PASS
RRNAD1	1	156728442	156736960	0.103015788	PASS
RRP1	21	43789513	43805293	-0.064425456	suppress_segment_too_large
RRP12	10	97356358	97426076	-0.367947924	PASS
RRP15	1	218285287	218337983	-0.256698369	PASS
RRP1B	21	43659548	43696079	-0.064425456	suppress_segment_too_large
RRP36	6	43021645	43034156	0.048820648	PASS
RRP7A	22	42509968	42519802	-0.575930959	PASS
RRP8	11	6595075	6603620	-0.405444717	PASS
RRP9	3	51933430	51941941	-0.234617007	PASS
RRS1	8	66429028	66430733	-0.201142258	PASS
RS1	23	18639910	18672109	-0.012567603	PASS
RSAD1	17	50478800	50485975	0.088516311	PASS
RSAD2	2	6865806	6898239	0.040498426	PASS
RSBN1	1	113761832	113812476	0.033763446	PASS
RSBN1L	7	77696443	77783022	-0.262778904	PASS
RSC1A1	1	15659869	15661722	0.033763446	PASS
RSF1	11	77659996	77821017	0.062969153	PASS
RSL1D1	16	11833850	11851585	0.069936844	PASS
RSL24D1	15	55180806	55197067	-0.697600509	PASS
RSPH1	21	42472486	42496354	-0.064425456	suppress_segment_too_large
RSPH10B	7	5925550	5970683	-0.69513118	PASS
RSPH10B2	7	6754109	6799365	-0.69513118	PASS
RSPH14	22	23059415	23145021	-0.575930959	PASS
RSPH3	6	158972871	159000187	-0.035448111	PASS
RSPH4A	6	116616479	116632985	-0.368590549	PASS
RSPH6A	19	45795710	45815319	0.14996833	PASS
RSPH9	6	43645046	43672599	0.048820648	PASS
RSPO1	1	37611350	37634923	0.033763446	PASS
RSPO2	8	107899316	108083648	0.279445683	PASS
RSPO3	6	127118604	127197765	-0.458570262	PASS
RSPO4	20	958452	1002264	-0.168668583	PASS
RSPRY1	16	57186137	57240475	-0.371357732	PASS
RSRC1	3	158105855	158545730	0.318278996	suppress_segment_too_large
RSRC2	12	122503458	122527000	0.202141228	PASS
RSRP1	1	25242237	25338213	0.033763446	PASS
RSU1	10	16590611	16817528	0.039811807	PASS

RTBDN	19	12825478	12835428	0.093487731	suppress_segment_too_large
RTCA	1	100266207	100292769	0.033763446	PASS
RTCB	22	32387582	32412255	-0.575930959	PASS
RTEL1	20	63657810	63696253	-0.168668583	PASS
RTEL1-TN	20	63659300	63698684	-0.168668583	PASS
RTF1	15	41408408	41483563	-0.396255771	PASS
RTF2	20	56468585	56519449	-0.168668583	PASS
RTKN	2	74425836	74442422	-0.372959126	PASS
RTKN2	10	62183035	62268707	0.072405807	PASS
RTL1	14	100879753	100903722	-0.192197564	PASS
RTL10	22	19846138	19854896	-0.575930959	PASS
RTL3	23	78656069	78659328	-0.012567603	PASS
RTL4	23	112454500	112457112	-0.012567603	PASS
RTL5	23	72127110	72131901	-0.012567603	PASS
RTL6	22	44492572	44498298	-0.808211634	PASS
RTL8A	23	135050932	135052196	-0.012567603	PASS
RTL8B	23	135020504	135022529	-0.012567603	PASS
RTL8C	23	135032366	135033546	-0.012567603	PASS
RTL9	23	110358816	110456334	-0.012567603	PASS
RTN1	14	59595976	59870966	0.060212819	PASS
RTN2	19	45485289	45497061	0.14996833	PASS
RTN3	11	63681446	63759891	0.182439925	suppress_segment_too_large
RTN4	2	54972187	55112621	0.040498426	PASS
RTN4IP1	6	106571971	106629487	-0.368590549	PASS
RTN4R	22	20241415	20283246	-0.575930959	PASS
RTN4RL1	17	1934677	2025345	0.128406487	PASS
RTN4RL2	11	57460549	57477534	-0.129266491	PASS
RTP1	3	187197486	187201465	0.318278996	suppress_segment_too_large
RTP2	3	187698259	187702557	0.318278996	suppress_segment_too_large
RTP3	3	46497491	46500949	-0.234617007	PASS
RTP4	3	187368332	187372076	0.318278996	suppress_segment_too_large
RTRAF	14	51989475	52010691	0.060212819	PASS
RTTN	18	70003031	70205945	-0.376397843	PASS
RUBCN	3	197671393	197749727	0.326834516	PASS
RUBCNL	13	46342000	46438190	-0.390786075	PASS
RUFY1	5	179550558	179610026	-0.150979337	PASS
RUFY2	10	68341107	68407294	0.072405807	PASS
RUFY3	4	70704204	70807315	-0.011382299	PASS
RUFY4	2	218034960	218090581	0.025928102	PASS
RUNDC1	17	42980565	42993690	0.088516311	PASS
RUNDC3A	17	44308413	44318671	0.088516311	PASS
RUNDC3B	7	87627548	87832296	-0.262778904	PASS
RUNX1	21	34787801	36004667	-0.064425456	suppress_segment_too_large
RUNX1T1	8	91954967	92103286	0.279445683	PASS
RUNX2	6	45328157	45664349	0.048820648	PASS
RUNX3	1	24899511	24965121	0.033763446	PASS

RUSC1	1	155320896	155331114	0.103015788	PASS
RUSC2	9	35490127	35561898	-0.310444659	PASS
RUVBL1	3	128064778	128153914	0.313454204	suppress_segment_too_large
RUVBL2	19	48993448	49015995	0.14996833	PASS
RWDD1	6	116571367	116597675	-0.368590549	PASS
RWDD2A	6	83193379	83198932	-0.368590549	PASS
RWDD2B	21	29004384	29019378	0.12860881	suppress_segment_too_large
RWDD3	1	95234155	95247225	0.033763446	PASS
RWDD4	4	183639635	183659225	-0.462744716	PASS
RXFP1	4	158315311	158653372	-0.011382299	PASS
RXFP2	13	31739542	31803388	-0.390786075	PASS
RXFP3	5	33936386	33938237	0.055007813	PASS
RXFP4	1	155941710	155942949	0.103015788	PASS
RXRA	9	134317098	134440585	0.365190713	suppress_segment_too_large
RXRB	6	33193588	33200688	0.048820648	PASS
RXRG	1	165400917	165445355	-0.027073548	PASS
RXYLT1	12	63779803	63809558	-0.202191512	PASS
RYBP	3	72371825	72446621	-0.234617007	PASS
RYK	3	134065303	134250744	0.313454204	suppress_segment_too_large
RYR1	19	38433699	38587564	0.093487731	suppress_segment_too_large
RYR2	1	237042205	237833988	-0.648598641	PASS
RYR3	15	33310945	33866121	-0.396255771	PASS
S100A1	1	153627926	153632039	0.103015788	PASS
S100A10	1	151982915	151994390	0.103015788	PASS
S100A11	1	152032506	152047907	0.103015788	PASS
S100A12	1	153373706	153375649	0.103015788	PASS
S100A13	1	153618787	153631360	0.103015788	PASS
S100A14	1	153614255	153616986	0.103015788	PASS
S100A16	1	153606886	153613145	0.103015788	PASS
S100A2	1	153561108	153567890	0.103015788	PASS
S100A3	1	153547329	153549372	0.103015788	PASS
S100A4	1	153543613	153550136	0.103015788	PASS
S100A5	1	153537147	153541765	0.103015788	PASS
S100A6	1	153534599	153536244	0.103015788	PASS
S100A7	1	153457744	153460701	0.103015788	PASS
S100A7A	1	153416524	153423225	0.103015788	PASS
S100A7L2	1	153437058	153439949	0.103015788	PASS
S100A8	1	153390032	153391188	0.103015788	PASS
S100A9	1	153357854	153361027	0.103015788	PASS
S100B	21	46598962	46605208	-0.064425456	suppress_segment_too_large
S100G	23	16650158	16654670	-0.012567603	PASS
S100P	4	6693069	6697170	0.279089364	PASS
S100PBP	1	32816767	32858879	0.033763446	PASS
S100Z	5	76850001	76921650	-0.293443042	PASS
S1PR1	1	101236865	101243713	0.033763446	PASS
S1PR2	19	10221433	10231331	0.093487731	suppress_segment_too_large

S1PR3	9	88990863	89005010	0.365190713	suppress_segment_too_large
S1PR4	19	3172346	3180332	0.079632875	PASS
S1PR5	19	10512742	10517931	0.093487731	suppress_segment_too_large
SAA1	11	18266174	18269977	-0.405444717	PASS
SAA2	11	18239223	18248643	-0.405444717	PASS
SAA2-SAA	11	18231423	18248635	-0.405444717	PASS
SAA4	11	18231349	18236893	-0.405444717	PASS
SAAL1	11	18069935	18106091	-0.405444717	PASS
SAC3D1	11	65040901	65044828	0.182439925	suppress_segment_too_large
SACM1L	3	45689056	45745424	-0.234617007	PASS
SACS	13	23328826	23433740	-0.390786075	PASS
SAE1	19	47113274	47210636	0.14996833	PASS
SAFB	19	5623035	5668478	0.079632875	PASS
SAFB2	19	5586999	5624046	0.079632875	PASS
SAG	2	233307816	233347055	0.025928102	PASS
SAGE1	23	135889205	135913061	-0.012567603	PASS
SALL1	16	51135975	51151367	-0.371357732	PASS
SALL2	14	21521081	21537216	0.060212819	PASS
SALL3	18	78980275	79002677	-0.376397843	PASS
SALL4	20	51782331	51802520	-0.168668583	PASS
SAMD1	19	14087840	14091036	0.093487731	suppress_segment_too_large
SAMD10	20	63974113	63980008	-0.168668583	PASS
SAMD11	1	923928	944581	0.373964873	suppress_segment_too_large
SAMD12	8	118189455	118622112	0.279445683	PASS
SAMD13	1	84298366	84389957	0.033763446	PASS
SAMD14	17	50110040	50129882	0.088516311	PASS
SAMD15	14	77376689	77391497	-0.192197564	PASS
SAMD3	6	130144315	130365425	-0.458570262	PASS
SAMD4A	14	54567097	54793315	0.060212819	PASS
SAMD4B	19	39342396	39385710	0.093487731	suppress_segment_too_large
SAMD5	6	147508927	147737547	-0.035448111	PASS
SAMD7	3	169911572	169939175	0.318278996	suppress_segment_too_large
SAMD8	10	75099586	75182123	0.072405807	PASS
SAMD9	7	93099513	93118023	-0.262778904	PASS
SAMD9L	7	93130055	93148369	-0.262778904	PASS
SAMHD1	20	36889773	36951901	-0.168668583	PASS
SAMM50	22	43955421	44010531	-0.808211634	PASS
SAMSN1	21	14485228	14658821	-0.304975024	PASS
SAP130	2	127941217	128028120	-0.475215623	PASS
SAP18	13	21140514	21149084	-0.390786075	PASS
SAP25	7	100572228	100573820	-0.262778904	PASS
SAP30	4	173369969	173377532	-0.011382299	PASS
SAP30BP	17	75667116	75708062	0.088516311	PASS
SAP30L	5	154445957	154461054	-0.293443042	PASS
SAPCD1	6	31762799	31764851	0.048820648	PASS
SAPCD2	9	137062124	137070588	0.365190713	suppress_segment_too_large

SAR1A	10	70147289	70170523	0.072405807	PASS
SAR1B	5	134601144	134649271	-0.293443042	PASS
SARAF	8	30063012	30083208	-0.345962679	PASS
SARDH	9	133663560	133739955	0.365190713	suppress_segment_too_large
SARM1	17	28364356	28404049	0.060555011	PASS
SARNP	12	55752463	55817756	-0.202191512	PASS
SARS	1	109213918	109238169	0.033763446	PASS
SARS2	19	38915266	38930896	0.093487731	suppress_segment_too_large
SART1	11	65961689	65979828	0.182439925	suppress_segment_too_large
SART3	12	108522580	108561400	0.202141228	PASS
SASH1	6	148272304	148552050	-0.035448111	PASS
SASH3	23	129779979	129795201	-0.012567603	PASS
SASS6	1	100083563	100132955	0.033763446	PASS
SAT1	23	23783173	23786226	-0.012567603	PASS
SAT2	17	7626234	7627876	0.128406487	PASS
SATB1	3	18345387	18445588	0.311018244	suppress_segment_too_large
SATB2	2	199269500	199471266	0.025928102	PASS
SATL1	23	85092287	85243961	-0.012567603	PASS
SAV1	14	50632058	50668331	0.060212819	PASS
SAXO1	9	18858906	19049358	-0.310444659	PASS
SAXO2	15	82262810	82284930	-0.697600509	PASS
SAYSD1	6	39104064	39115189	0.048820648	PASS
SBDS	7	66987677	66995601	-0.750061359	PASS
SBF1	22	50445000	50475024	-0.808211634	PASS
SBF2	11	9778667	10294207	-0.405444717	PASS
SBK1	16	28292519	28323849	0.069936844	PASS
SBK2	19	55529733	55537089	0.121336758	PASS
SBK3	19	55540656	55545543	0.121336758	PASS
SBNO1	12	123289109	123364843	0.202141228	PASS
SBNO2	19	1107636	1174283	0.079632875	PASS
SBSN	19	35523367	35528351	0.093487731	suppress_segment_too_large
SBSPON	8	73064540	73124088	-0.201142258	PASS
SC5D	11	121292453	121308694	-0.356188624	PASS
SCAF1	19	49642125	49658642	0.14996833	PASS
SCAF11	12	45919131	45992120	-0.202191512	PASS
SCAF4	21	31671033	31732075	0.12860881	suppress_segment_too_large
SCAF8	6	154733325	154834244	-0.035448111	PASS
SCAI	9	124942608	125143506	0.365190713	suppress_segment_too_large
SCAMP1	5	78360583	78479071	-0.293443042	PASS
SCAMP2	15	74843730	74873365	-0.697600509	PASS
SCAMP3	1	155255979	155262430	0.103015788	PASS
SCAMP4	19	1905214	1926013	0.079632875	PASS
SCAMP5	15	74957219	75021496	-0.697600509	PASS
SCAND1	20	35953617	35959472	-0.168668583	PASS
SCAP	3	47413694	47477126	-0.234617007	PASS
SCAPER	15	76347904	76905444	-0.697600509	PASS

SCARA3	8	27633868	27676776	-0.345962679	PASS
SCARA5	8	27869882	27992727	-0.345962679	PASS
SCARB1	12	124776856	124882668	0.202141228	PASS
SCARB2	4	76158733	76234536	-0.011382299	PASS
SCARF1	17	1633858	1645747	0.128406487	PASS
SCARF2	22	20424815	20437826	-0.575930959	PASS
SCART1	10	133453928	133523558	0.063874692	PASS
SCCPDH	1	246724047	246768137	-0.368111568	PASS
SCD	10	100347124	100364834	-0.367947924	PASS
SCD5	4	82629539	82798857	-0.011382299	PASS
SCEL	13	77535674	77645263	-0.390786075	PASS
SCFD1	14	30622112	30735812	0.060212819	PASS
SCFD2	4	52872982	53366075	-0.011382299	PASS
SCG2	2	223596940	223602503	0.025928102	PASS
SCG3	15	51681353	51721031	-0.396255771	PASS
SCG5	15	32641676	32697098	-0.396255771	PASS
SCGB1A1	11	62405103	62423195	0.182439925	suppress_segment_too_large
SCGB1C1	11	193080	194573	-0.333835828	PASS
SCGB1C2	17	137526	139067	0.128406487	PASS
SCGB1D1	11	62190216	62193539	0.182439925	suppress_segment_too_large
SCGB1D2	11	62242210	62244808	0.182439925	suppress_segment_too_large
SCGB1D4	11	62296277	62299064	0.182439925	suppress_segment_too_large
SCGB2A1	11	62208668	62213939	0.182439925	suppress_segment_too_large
SCGB2A2	11	62270155	62273156	0.182439925	suppress_segment_too_large
SCGB2B2	19	34593329	34675699	0.093487731	suppress_segment_too_large
SCGB3A1	5	180590103	180591540	-0.150979337	PASS
SCGB3A2	5	147870682	147882191	-0.293443042	PASS
SCGN	6	25652201	25701783	0.048820648	PASS
SCHIP1	3	159839861	159897360	0.318278996	suppress_segment_too_large
SCIMP	17	5208961	5234860	0.128406487	PASS
SCIN	7	12570577	12660179	-0.69513118	PASS
SCLT1	4	128864921	129093607	-0.011382299	PASS
SCLY	2	238060889	238099413	0.025928102	PASS
SCMH1	1	41027200	41242154	0.033763446	PASS
SCML1	23	17737449	17754988	-0.012567603	PASS
SCML2	23	18239314	18354727	-0.012567603	PASS
SCML4	6	107704104	107824317	-0.368590549	PASS
SCN10A	3	38696807	38816217	-0.234617007	PASS
SCN11A	3	38845769	38950561	-0.234617007	PASS
SCN1A	2	165984641	166149214	0.039726562	PASS
SCN1B	19	35030466	35040449	0.093487731	suppress_segment_too_large
SCN2A	2	165194993	165392310	0.039726562	PASS
SCN2B	11	118161951	118176673	-0.356188624	PASS
SCN3A	2	165087522	165204067	0.039726562	PASS
SCN3B	11	123629187	123655244	-0.949752196	PASS
SCN4A	17	63938554	63972918	0.088516311	PASS

SCN4B	11	118133377	118152888	-0.356188624	PASS
SCN5A	3	38548057	38649673	-0.234617007	PASS
SCN7A	2	166403573	166494326	0.039726562	PASS
SCN8A	12	51590266	51812864	-0.202191512	PASS
SCN9A	2	166195185	166376001	0.039726562	PASS
SCNM1	1	151156664	151170297	0.103015788	PASS
SCNN1A	12	6346843	6377730	-0.086128028	PASS
SCNN1B	16	23278231	23381299	0.069936844	PASS
SCNN1D	1	1280436	1292029	0.373964873	suppress_segment_too_large
SCNN1G	16	23182715	23216883	0.069936844	PASS
SCO1	17	10672474	10698375	-0.139031004	PASS
SCO2	22	50523568	50526439	-0.808211634	PASS
SCOC	4	140257286	140385726	-0.011382299	PASS
SCP2	1	52927229	53051703	0.033763446	PASS
SCP2D1	20	18813726	18814392	-0.168668583	PASS
SCPEP1	17	56978105	57006768	0.088516311	PASS
SCRG1	4	173384701	173406380	-0.011382299	PASS
SCRIB	8	143790920	143815379	0.307788765	PASS
SCRN1	7	29920103	29990289	-0.69513118	PASS
SCRN2	17	47837692	47841333	0.088516311	PASS
SCRN3	2	174395730	174429575	0.039726562	PASS
SCRT1	8	144330565	144336281	0.307788765	PASS
SCRT2	20	661596	676179	-0.168668583	PASS
SCT	11	626431	627143	-0.333835828	PASS
SCTR	2	119439843	119525301	-0.475215623	PASS
SCUBE1	22	43197283	43343388	-0.575930959	PASS
SCUBE2	11	9019498	9138114	-0.405444717	PASS
SCUBE3	6	35214419	35253079	0.048820648	PASS
SCX	8	144266560	144268481	0.307788765	PASS
SCYL1	11	65525077	65538704	0.182439925	suppress_segment_too_large
SCYL2	12	100267140	100341724	0.202141228	PASS
SCYL3	1	169849631	169894267	-0.027073548	PASS
SDAD1	4	75940950	75990962	-0.011382299	PASS
SDC1	2	20200797	20225433	0.040498426	PASS
SDC2	8	96493351	96611780	0.279445683	PASS
SDC3	1	30869467	30908761	0.033763446	PASS
SDC4	20	45325288	45348424	-0.168668583	PASS
SDCBP	8	58552924	58582860	-0.201142258	PASS
SDCBP2	20	1309909	1329239	-0.168668583	PASS
SDCCAG8	1	243256034	243500092	-0.648598641	PASS
SDE2	1	225982702	225999331	-0.256698369	PASS
SDF2	17	28648356	28662189	0.060555011	PASS
SDF2L1	22	21642261	21644298	-0.575930959	PASS
SDF4	1	1216908	1232031	0.373964873	suppress_segment_too_large
SDHA	5	218241	256700	0.055007813	PASS
SDHAF1	19	35995199	35996315	0.093487731	suppress_segment_too_large

SDHAF2	11	61430042	61447529	0.182439925	suppress_segment_too_large
SDHAF3	7	97116590	97181763	-0.262778904	PASS
SDHAF4	6	70566917	70589569	-0.368590549	PASS
SDHB	1	17018722	17054170	0.033763446	PASS
SDHC	1	161314257	161375340	-0.027073548	PASS
SDHD	11	112086773	112120013	-0.356188624	PASS
SDK1	7	3301448	4269000	-0.69513118	PASS
SDK2	17	73334384	73644089	0.088516311	PASS
SDR16C5	8	56300010	56320776	-0.201142258	PASS
SDR39U1	14	24439766	24442905	0.060212819	PASS
SDR42E1	16	81988855	82011488	-0.371357732	PASS
SDR42E2	16	22165583	22191754	0.069936844	PASS
SDR9C7	12	56923154	56934405	-0.202191512	PASS
SDS	12	113392445	113426301	0.202141228	PASS
SDSL	12	113422237	113438276	0.202141228	PASS
SEBOX	17	28364268	28365244	0.060555011	PASS
SEC11A	15	84669538	84716716	-0.697600509	PASS
SEC11C	18	59139477	59158836	-0.376397843	PASS
SEC13	3	10293131	10321178	0.311018244	suppress_segment_too_large
SEC14L1	17	77088749	77217101	0.088516311	PASS
SEC14L2	22	30396857	30425317	-0.575930959	PASS
SEC14L3	22	30447959	30472049	-0.575930959	PASS
SEC14L4	22	30488913	30505711	-0.575930959	PASS
SEC14L5	16	4958317	5019158	0.069936844	PASS
SEC14L6	22	30522799	30546682	-0.575930959	PASS
SEC16A	9	136440096	136483759	0.365190713	suppress_segment_too_large
SEC16B	1	177923956	177984303	-0.027073548	PASS
SEC22A	3	123201927	123274130	0.313454204	suppress_segment_too_large
SEC22B	1	120150898	120176515	-0.157385092	PASS
SEC22C	3	42547969	42601080	-0.234617007	PASS
SEC23A	14	39031919	39109646	0.060212819	PASS
SEC23B	20	18507482	18561415	-0.168668583	PASS
SEC23IP	10	119892711	119944658	0.063874692	PASS
SEC24A	5	134648789	134727823	-0.293443042	PASS
SEC24B	4	109433772	109540896	-0.011382299	PASS
SEC24C	10	73744384	73772161	0.072405807	PASS
SEC24D	4	118722823	118838683	-0.011382299	PASS
SEC31A	4	82818661	82901166	-0.011382299	PASS
SEC31B	10	100486642	100519864	-0.367947924	PASS
SEC61A1	3	128051641	128071683	0.313454204	suppress_segment_too_large
SEC61A2	10	12129637	12169961	0.039811807	PASS
SEC61B	9	99222064	99230615	0.365190713	suppress_segment_too_large
SEC61G	7	54752250	54759974	-0.750061359	PASS
SEC62	3	169966635	169998373	0.318278996	suppress_segment_too_large
SEC63	6	107867756	107958189	-0.368590549	PASS
SECISBP2	9	89318506	89359662	0.365190713	suppress_segment_too_large

SECISBP2	15	48988476	49046563	-0.396255771	PASS
SECTM1	17	82321024	82334074	0.088516311	PASS
SEH1L	18	12947133	12987536	-0.052305056	suppress_segment_too_large
SEL1L	14	81471549	81533861	-0.192197564	PASS
SEL1L2	20	13849247	13996443	-0.168668583	PASS
SEL1L3	4	25747427	25863760	-0.458181871	PASS
SELE	1	169722641	169764705	-0.027073548	PASS
SELENBP1	1	151364302	151372733	0.103015788	PASS
SELENOF	1	86862445	86914424	0.033763446	PASS
SELENOH	11	57741250	57743554	-0.129266491	PASS
SELENOI	2	26308547	26395891	0.040498426	PASS
SELENOK	3	53884410	53891988	-0.234617007	PASS
SELENOM	22	31104772	31120069	-0.575930959	PASS
SELENON	1	25800176	25818224	0.033763446	PASS
SELENOO	22	50200979	50217616	-0.808211634	PASS
SELENOP	5	42799880	42887392	-0.293443042	PASS
SELENOS	15	101270817	101277500	-0.697600509	PASS
SELENOT	3	150602875	150630445	0.318278996	suppress_segment_too_large
SELENOV	19	39515113	39520686	0.093487731	suppress_segment_too_large
SELENOW	19	47778572	47784686	0.14996833	PASS
SELL	1	169690667	169711698	-0.027073548	PASS
SELP	1	169588849	169630193	-0.027073548	PASS
SELPLG	12	108622277	108633959	0.202141228	PASS
SEM1	7	96481626	96709891	-0.262778904	PASS
SEMA3A	7	83955777	84492724	-0.262778904	PASS
SEMA3B	3	50267558	50277546	-0.234617007	PASS
SEMA3C	7	80742538	80922359	-0.262778904	PASS
SEMA3D	7	84995553	85186855	-0.262778904	PASS
SEMA3E	7	83363238	83649113	-0.262778904	PASS
SEMA3F	3	50155045	50189075	-0.234617007	PASS
SEMA3G	3	52433053	52445085	-0.234617007	PASS
SEMA4A	1	156147366	156177752	0.103015788	PASS
SEMA4B	15	90160604	90229679	-0.697600509	PASS
SEMA4C	2	96859716	96870757	0.048238121	PASS
SEMA4D	9	89360787	89498130	0.365190713	suppress_segment_too_large
SEMA4F	2	74654228	74683853	-0.372959126	PASS
SEMA4G	10	100969518	100985871	-0.367947924	PASS
SEMA5A	5	9035026	9546075	0.055007813	PASS
SEMA5B	3	122909082	123028605	0.313454204	suppress_segment_too_large
SEMA6A	5	116443616	116574934	-0.293443042	PASS
SEMA6B	19	4542593	4559808	0.079632875	PASS
SEMA6C	1	151131685	151146664	0.103015788	PASS
SEMA6D	15	47184101	47774223	-0.396255771	PASS
SEMA7A	15	74409289	74433958	-0.697600509	PASS
SEMG1	20	45206997	45209772	-0.168668583	PASS
SEMG2	20	45221300	45224458	-0.168668583	PASS

SENP1	12	48042898	48106308	-0.202191512	PASS
SENP2	3	185582496	185633551	0.318278996	suppress_segment_too_large
SENP3	17	7561875	7571969	0.128406487	PASS
SENP3-EIF	17	7563287	7578715	0.128406487	PASS
SENP5	3	196867856	196934714	0.326834516	PASS
SENP6	6	75601509	75718278	-0.368590549	PASS
SENP7	3	101324205	101513241	0.313454204	suppress_segment_too_large
SENP8	15	72114258	72143688	-0.697600509	PASS
SEPHS1	10	13317424	13348298	0.039811807	PASS
SEPHS2	16	30443631	30446181	0.069936844	PASS
SEPSECS	4	25120014	25160442	0.279089364	PASS
1-Sep	16	30378133	30395991	0.069936844	PASS
10-Sep	2	109542982	109614206	-0.010901494	PASS
11-Sep	4	76949703	77040384	-0.011382299	PASS
12-Sep	16	4777669	4788521	0.069936844	PASS
14-Sep	7	55793544	55862789	-0.750061359	PASS
3-Sep	22	41969475	41998221	-0.575930959	PASS
4-Sep	17	58520250	58540818	0.088516311	PASS
5-Sep	22	19714464	19724224	-0.575930959	PASS
SEPT5-GP	22	19717220	19724772	-0.575930959	PASS
6-Sep	23	119615724	119693370	-0.012567603	PASS
7-Sep	7	35800932	35907105	-0.69513118	PASS
8-Sep	5	132750817	132807241	-0.293443042	PASS
9-Sep	17	77280569	77500596	0.088516311	PASS
SERAC1	6	158109515	158168280	-0.035448111	PASS
SERBP1	1	67407810	67430415	0.033763446	PASS
SERF1B	5	70025247	70043113	-0.293443042	PASS
SERF2	15	43777087	43802589	-0.396255771	PASS
SERGEF	11	17788048	18013162	-0.405444717	PASS
SERHL2	22	42553617	42574382	-0.575930959	PASS
SERINC1	6	122443354	122471822	-0.368590549	PASS
SERINC2	1	31409565	31434680	0.033763446	PASS
SERINC3	20	44496221	44522109	-0.168668583	PASS
SERINC4	15	43794162	43800221	-0.396255771	PASS
SERINC5	5	80111651	80256079	-0.293443042	PASS
SERP1	3	150541994	150603228	0.318278996	suppress_segment_too_large
SERP2	13	44373665	44397714	-0.390786075	PASS
SERPINA1	14	94376747	94390693	-0.192197564	PASS
SERPINA1	14	94280455	94293271	-0.192197564	PASS
SERPINA1	14	94442464	94452790	-0.192197564	PASS
SERPINA1	14	94487274	94517844	-0.192197564	PASS
SERPINA3	14	94612377	94624055	-0.192197564	PASS
SERPINA4	14	94561091	94569913	-0.192197564	PASS
SERPINA5	14	94561442	94593120	-0.192197564	PASS
SERPINA6	14	94304248	94323394	-0.192197564	PASS
SERPINA7	23	106032442	106038738	-0.012567603	PASS

SERPINA9	14	94462717	94479689	-0.192197564	PASS
SERPINB1	6	2832332	2842006	0.048820648	PASS
SERPINB1	18	63897174	63936111	-0.376397843	PASS
SERPINB1	18	63647579	63726432	-0.376397843	PASS
SERPINB1	18	63556160	63567011	-0.376397843	PASS
SERPINB1	18	63586989	63604639	-0.376397843	PASS
SERPINB2	18	63871692	63903890	-0.376397843	PASS
SERPINB3	18	63655197	63661963	-0.376397843	PASS
SERPINB4	18	63637259	63644298	-0.376397843	PASS
SERPINB5	18	63476761	63505085	-0.376397843	PASS
SERPINB6	6	2948159	2972165	0.048820648	PASS
SERPINB7	18	63752935	63805376	-0.376397843	PASS
SERPINB8	18	63969925	64019779	-0.376397843	PASS
SERPINB9	6	2887266	2903280	0.048820648	PASS
SERPINC1	1	173903804	173917378	-0.027073548	PASS
SERPIND1	22	20773879	20787720	-0.575930959	PASS
SERPINE1	7	101127089	101139266	-0.388946609	PASS
SERPINE2	2	223975112	224039319	0.025928102	PASS
SERPINE3	13	51335773	51364735	-0.390786075	PASS
SERPINF1	17	1761959	1777574	0.128406487	PASS
SERPINF2	17	1742836	1755268	0.128406487	PASS
SERPING1	11	57597387	57614853	-0.129266491	PASS
SERPINH1	11	75562056	75572783	0.062969153	PASS
SERPINI1	3	167735243	167825568	0.318278996	suppress_segment_too_large
SERPINI2	3	167441789	167479004	0.318278996	suppress_segment_too_large
SERTAD1	19	40421592	40426025	0.093487731	suppress_segment_too_large
SERTAD2	2	64631621	64751005	-0.372959126	PASS
SERTAD3	19	40440844	40444705	0.093487731	suppress_segment_too_large
SERTAD4	1	210232799	210246631	-0.256698369	PASS
SERTM1	13	36673912	36697839	-0.390786075	PASS
SESN1	6	108986437	109094819	-0.368590549	PASS
SESN2	1	28259527	28282491	0.033763446	PASS
SESN3	11	95165513	95232541	0.062969153	PASS
SESTD1	2	179101692	179264790	0.039726562	PASS
SET	9	128683424	128696400	0.365190713	suppress_segment_too_large
SETBP1	18	44680173	45068510	-0.376397843	PASS
SETD1A	16	30957294	30984664	0.069936844	PASS
SETD1B	12	121804180	121832584	0.202141228	PASS
SETD2	3	47016429	47163967	-0.234617007	PASS
SETD3	14	99397746	99480889	-0.192197564	PASS
SETD4	21	36034541	36079389	-0.064425456	suppress_segment_too_large
SETD5	3	9397615	9479240	0.311018244	suppress_segment_too_large
SETD6	16	58515479	58521181	-0.371357732	PASS
SETD7	4	139495941	139606699	-0.011382299	PASS
SETD9	5	56909260	56925532	-0.293443042	PASS
SETDB1	1	150926263	150964744	0.103015788	PASS

SETDB2	13	49444374	49495003	-0.390786075	PASS
SETMAR	3	4303304	4317567	0.311018244	suppress_segment_too_large
SETSIP	1	92074533	92075441	0.033763446	PASS
SETX	9	132261356	132354985	0.365190713	suppress_segment_too_large
SEZ6	17	28954901	29006440	0.060555011	PASS
SEZ6L	22	26169474	26383597	-0.575930959	PASS
SEZ6L2	16	29871159	29899547	0.069936844	PASS
SF1	11	64764606	64778786	0.182439925	suppress_segment_too_large
SF3A1	22	30331988	30356947	-0.575930959	PASS
SF3A2	19	2236504	2248679	0.079632875	PASS
SF3A3	1	37956975	37990921	0.033763446	PASS
SF3B1	2	197389784	197435091	0.025928102	PASS
SF3B2	11	66050729	66069308	0.182439925	suppress_segment_too_large
SF3B3	16	70523788	70577670	-0.371357732	PASS
SF3B4	1	149923317	149928344	0.103015788	PASS
SF3B5	6	144094881	144095573	-0.035448111	PASS
SF3B6	2	24067584	24076443	0.040498426	PASS
SFI1	22	31488688	31618586	-0.575930959	PASS
SFMBT1	3	52903572	53046750	-0.234617007	PASS
SFMBT2	10	7158624	7411486	0.039811807	PASS
SFN	1	26863138	26864457	0.033763446	PASS
SFPQ	1	35176378	35193148	0.033763446	PASS
SFR1	10	104122058	104126385	-0.367947924	PASS
SFRP1	8	41261958	41309497	-0.201142258	PASS
SFRP2	4	153780592	153789120	-0.011382299	PASS
SFRP4	7	37905932	38025695	-0.69513118	PASS
SFRP5	10	97766751	97771952	-0.367947924	PASS
SFSWAP	12	131711081	131799737	0.270848837	PASS
SFT2D1	6	166319728	166342591	-0.035448111	PASS
SFT2D2	1	168225938	168253025	-0.027073548	PASS
SFT2D3	2	127701508	127705242	-0.475215623	PASS
SFTA2	6	30931353	30955636	0.048820648	PASS
SFTA3	14	36473288	36513829	0.060212819	PASS
SFTPA1	10	79610939	79615455	0.072405807	PASS
SFTPA2	10	79555852	79560402	0.072405807	PASS
SFTPB	2	85657314	85668741	0.066915641	PASS
SFTPC	8	22156913	22164479	-0.345962679	PASS
SFTPD	10	79937740	79982614	0.072405807	PASS
SFXN1	5	175477062	175529742	-0.150979337	PASS
SFXN2	10	102714538	102743492	-0.367947924	PASS
SFXN3	10	101031234	101041244	-0.367947924	PASS
SFXN4	10	119140767	119165667	0.063874692	PASS
SFXN5	2	72942036	73075619	-0.372959126	PASS
SGCA	17	50164214	50175931	0.088516311	PASS
SGCB	4	52020706	52038482	-0.011382299	PASS
SGCD	5	155870344	156767788	-0.293443042	PASS

SGCE	7	94524204	94656572	-0.262778904	PASS
SGCG	13	23180952	23325165	-0.390786075	PASS
SGCZ	8	14089864	15238339	-0.345962679	PASS
SGF29	16	28553915	28591790	0.069936844	PASS
SGIP1	1	66533383	66748299	0.033763446	PASS
SGK1	6	134169246	134318112	-0.035448111	PASS
SGK2	20	43558968	43588237	-0.168668583	PASS
SGK3	8	66667596	66862022	-0.201142258	PASS
SGK494	17	28607964	28614200	0.060555011	PASS
SGMS1	10	50305586	50625163	-0.404852538	PASS
SGMS2	4	107824563	107915047	-0.011382299	PASS
SGO1	3	20160593	20186292	0.311018244	suppress_segment_too_large
SGO2	2	200510008	200583782	0.025928102	PASS
SGPL1	10	70815961	70881173	0.072405807	PASS
SGPP1	14	63684214	63728039	0.060212819	PASS
SGPP2	2	222424517	222560948	0.025928102	PASS
SGSH	17	80206716	80220923	0.088516311	PASS
SGSM1	22	24806169	24927578	-0.575930959	PASS
SGSM2	17	2337498	2381058	0.128406487	PASS
SGSM3	22	40370591	40410289	-0.575930959	PASS
SGTA	19	2754714	2783371	0.079632875	PASS
SGTB	5	65665928	65723035	-0.293443042	PASS
SH2B1	16	28846600	28874212	0.069936844	PASS
SH2B2	7	102285091	102321711	-0.388946609	PASS
SH2B3	12	111405948	111451623	0.202141228	PASS
SH2D1A	23	124227868	124373197	-0.012567603	PASS
SH2D1B	1	162395266	162412138	-0.027073548	PASS
SH2D2A	1	156806243	156816862	0.103015788	PASS
SH2D3A	19	6752160	6767588	0.079632875	PASS
SH2D3C	9	127738317	127778741	0.365190713	suppress_segment_too_large
SH2D4A	8	19313617	19396218	-0.345962679	PASS
SH2D4B	10	80537902	80646560	0.072405807	PASS
SH2D5	1	20719732	20732837	0.033763446	PASS
SH2D6	2	85418721	85437029	0.066915641	PASS
SH2D7	15	78077808	78104909	-0.697600509	PASS
SH3BGR	21	39445855	39515506	-0.064425456	suppress_segment_too_large
SH3BGRL	23	81201943	81298547	-0.012567603	PASS
SH3BGRL2	6	79631283	79703659	-0.368590549	PASS
SH3BGRL3	1	26279176	26281522	0.033763446	PASS
SH3BP1	22	37634654	37656119	-0.575930959	PASS
SH3BP2	4	2793023	2841098	0.279089364	PASS
SH3BP4	2	234951973	235055714	0.025928102	PASS
SH3BP5	3	15254853	15341368	0.311018244	suppress_segment_too_large
SH3BP5L	1	248810446	248826633	-0.368111568	PASS
SH3D19	4	151102751	151325632	-0.011382299	PASS
SH3D21	1	36306387	36324886	0.033763446	PASS

SH3GL1	19	4360370	4400547	0.079632875	PASS
SH3GL2	9	17579082	17797129	-0.310444659	PASS
SH3GL3	15	83447228	83618743	-0.697600509	PASS
SH3GLB1	1	86704570	86748184	0.033763446	PASS
SH3GLB2	9	129007036	129028303	0.365190713	suppress_segment_too_large
SH3KBP1	23	19533975	19887601	-0.012567603	PASS
SH3PXD2A	10	103594027	103855543	-0.367947924	PASS
SH3PXD2B	5	172325000	172454523	-0.150979337	PASS
SH3RF1	4	169094256	169271105	-0.011382299	PASS
SH3RF2	5	145936579	146081791	-0.293443042	PASS
SH3RF3	2	109129348	109504632	-0.010901494	PASS
SH3TC1	4	8182072	8241803	0.279089364	PASS
SH3TC2	5	148923639	149063163	-0.293443042	PASS
SH3YL1	2	217730	266398	0.040498426	PASS
SHANK1	19	50661827	50719450	-0.016761391	PASS
SHANK2	11	70467856	71252577	0.182439925	suppress_segment_too_large
SHANK3	22	50674415	50733298	-0.808211634	PASS
SHARPIN	8	144098633	144108124	0.307788765	PASS
SHB	9	37919134	38069211	-0.310444659	PASS
SHBG	17	7613946	7633383	0.128406487	PASS
SHC1	1	154962298	154974395	0.103015788	PASS
SHC2	19	416583	460996	0.079632875	PASS
SHC3	9	89005771	89178767	0.365190713	suppress_segment_too_large
SHC4	15	48823735	48963444	-0.396255771	PASS
SHCBP1	16	46580554	46621626	0.069936844	PASS
SHCBP1L	1	182899865	182953525	-0.027073548	PASS
SHD	19	4278601	4290724	0.079632875	PASS
SHE	1	154469772	154502113	0.103015788	PASS
SHF	15	45167214	45201175	-0.396255771	PASS
SHH	7	155799986	155812273	-0.411415677	PASS
SHISA2	13	26044597	26051031	-0.390786075	PASS
SHISA3	4	42397839	42402487	-0.011382299	PASS
SHISA4	1	201888680	201892306	-0.256698369	PASS
SHISA5	3	48467798	48504826	-0.234617007	PASS
SHISA6	17	11241263	11564063	-0.139031004	PASS
SHISA7	19	55428740	55442863	0.121336758	PASS
SHISA8	22	41909554	41914667	-0.575930959	PASS
SHISA9	16	12901620	13240413	0.069936844	PASS
SHISAL1	22	44243667	44312851	-0.808211634	PASS
SHISAL2A	1	52633344	52669683	0.033763446	PASS
SHISAL2B	5	64690308	64718090	-0.293443042	PASS
SHKBP1	19	40576851	40591399	0.093487731	suppress_segment_too_large
SHLD1	20	5750393	5863912	-0.168668583	PASS
SHLD2	10	87094161	87191468	-0.292453993	PASS
SHLD3	5	65624765	65630891	-0.293443042	PASS
SHMT1	17	18327860	18363563	0.024610076	PASS

SHMT2	12	57229327	57234935	-0.202191512	PASS
SHOC2	10	110919547	111013667	0.063874692	PASS
SHOX	23	624344	659411	-0.012567603	PASS
SHOX2	3	158095954	158106503	0.318278996	suppress_segment_too_large
SHPK	17	3608262	3636322	0.128406487	PASS
SHPRH	6	145864245	145964423	-0.035448111	PASS
SHQ1	3	72749277	72861914	-0.234617007	PASS
SHROOM1	5	132822141	132830898	-0.293443042	PASS
SHROOM2	23	9786456	9949443	-0.012567603	PASS
SHROOM3	4	76435100	76783253	-0.011382299	PASS
SHROOM4	23	50591647	50814302	-0.012567603	PASS
SHTN1	10	116881482	117126586	0.063874692	PASS
SI	3	164978898	165078495	0.318278996	suppress_segment_too_large
SIAE	11	124633113	124695707	-0.419612865	PASS
SIAH1	16	48356364	48448402	0.069936844	PASS
SIAH2	3	150741127	150763477	0.318278996	suppress_segment_too_large
SIAH3	13	45777243	45851736	-0.390786075	PASS
SIDT1	3	113532296	113629578	0.313454204	suppress_segment_too_large
SIDT2	11	117178733	117197445	-0.356188624	PASS
SIGIRR	11	405716	417455	-0.333835828	PASS
SIGLEC1	20	3686970	3707128	-0.168668583	PASS
SIGLEC10	19	51410021	51417803	-0.016761391	PASS
SIGLEC11	19	49948985	49961172	-0.016761391	PASS
SIGLEC12	19	51491357	51501789	-0.016761391	PASS
SIGLEC14	19	51642553	51646801	-0.016761391	PASS
SIGLEC15	18	45825512	45844080	-0.376397843	PASS
SIGLEC5	19	51611927	51645545	-0.016761391	PASS
SIGLEC6	19	51519525	51531856	-0.016761391	PASS
SIGLEC7	19	51142299	51153526	-0.016761391	PASS
SIGLEC8	19	51450847	51458456	-0.016761391	PASS
SIGLEC9	19	51124908	51136651	-0.016761391	PASS
SIGLECL1	19	51246348	51269330	-0.016761391	PASS
SIGMAR1	9	34634722	34637809	-0.310444659	PASS
SIK1B	21	6111134	6123739	-0.304975024	PASS
SIK2	11	111602391	111730853	-0.356188624	PASS
SIK3	11	116843402	117098437	-0.356188624	PASS
SIKE1	1	114769479	114780685	0.033763446	PASS
SIL1	5	138946720	139293557	-0.293443042	PASS
SIM1	6	100385015	100464929	-0.368590549	PASS
SIM2	21	36699133	36749917	-0.064425456	suppress_segment_too_large
SIMC1	5	176238367	176345991	-0.150979337	PASS
SIN3A	15	75369379	75455842	-0.697600509	PASS
SIN3B	19	16829400	16880353	0.093487731	suppress_segment_too_large
SINHCAF	12	31280584	31327058	0.362961408	suppress_segment_too_large
SIPA1	11	65638097	65650930	0.182439925	suppress_segment_too_large
SIPA1L1	14	71320449	71741229	0.060212819	PASS

SIPA1L2	1	232397965	232561558	-0.256698369	PASS
SIPA1L3	19	37907228	38208372	0.093487731	suppress_segment_too_large
SIRPA	20	1894167	1940592	-0.168668583	PASS
SIRPB1	20	1563521	1620061	-0.168668583	PASS
SIRPB2	20	1470741	1491587	-0.168668583	PASS
SIRPD	20	1534251	1558843	-0.168668583	PASS
SIRPG	20	1629152	1657779	-0.168668583	PASS
SIRT1	10	67884669	67918390	0.072405807	PASS
SIRT2	19	38878555	38899862	0.093487731	suppress_segment_too_large
SIRT3	11	215458	236931	-0.333835828	PASS
SIRT4	12	120302316	120313249	0.202141228	PASS
SIRT5	6	13574529	13615158	0.048820648	PASS
SIRT6	19	4174109	4182604	0.079632875	PASS
SIRT7	17	81911939	81921323	0.088516311	PASS
SIT1	9	35649295	35650950	-0.310444659	PASS
SIVA1	14	104753100	104768494	-0.192197564	PASS
SIX1	14	60643415	60658259	0.060212819	PASS
SIX2	2	45005161	45009430	0.040498426	PASS
SIX3	2	44941898	44946077	0.040498426	PASS
SIX4	14	60709528	60724348	0.060212819	PASS
SIX5	19	45764785	45769226	0.14996833	PASS
SIX6	14	60508951	60512850	0.060212819	PASS
SKA1	18	50374995	50394173	-0.376397843	PASS
SKA2	17	59109951	59155269	0.088516311	PASS
SKA3	13	21153595	21176602	-0.390786075	PASS
SKAP1	17	48133440	48430275	0.088516311	PASS
SKAP2	7	26667062	26995239	-0.69513118	PASS
SKI	1	2228695	2310119	0.373964873	suppress_segment_too_large
SKIDA1	10	21513478	21526368	0.039811807	PASS
SKIL	3	170357678	170396835	0.318278996	suppress_segment_too_large
SKIV2L	6	31959080	31969755	0.048820648	PASS
SKOR1	15	67819704	67834561	-0.697600509	PASS
SKOR2	18	47206322	47251603	-0.376397843	PASS
SKP1	5	134148935	134177038	-0.293443042	PASS
SKP2	5	36151989	36184319	0.055007813	PASS
SLA	8	133036724	133103054	0.113969953	PASS
SLA2	20	36612318	36646216	-0.168668583	PASS
SLAIN1	13	77697854	77764242	-0.390786075	PASS
SLAIN2	4	48341322	48426212	-0.011382299	PASS
SLAMF1	1	160608100	160647295	-0.027073548	PASS
SLAMF6	1	160485030	160523262	-0.027073548	PASS
SLAMF7	1	160739057	160754821	-0.027073548	PASS
SLAMF8	1	159826750	159837249	-0.467855874	PASS
SLAMF9	1	159951492	159954254	-0.027073548	PASS
SLBP	4	1692800	1712555	0.279089364	PASS
SLC10A1	14	69775417	69797289	0.060212819	PASS

SLC10A2	13	103043998	103066846	-0.390786075	PASS
SLC10A3	23	154487306	154490690	-0.012567603	PASS
SLC10A4	4	48483343	48489196	-0.011382299	PASS
SLC10A5	8	81693607	81696174	0.279445683	PASS
SLC10A6	4	86823468	86849263	-0.011382299	PASS
SLC10A7	4	146253975	146521964	-0.011382299	PASS
SLC11A1	2	218382029	218396894	0.025928102	PASS
SLC11A2	12	50979401	51028566	-0.202191512	PASS
SLC12A1	15	48178438	48304078	-0.396255771	PASS
SLC12A2	5	128083766	128189688	-0.293443042	PASS
SLC12A3	16	56865207	56915850	-0.371357732	PASS
SLC12A4	16	67943474	67969601	-0.371357732	PASS
SLC12A5	20	46021690	46060152	-0.168668583	PASS
SLC12A6	15	34229996	34338060	-0.396255771	PASS
SLC12A7	5	1050376	1112035	0.055007813	PASS
SLC12A8	3	125082636	125212864	0.313454204	suppress_segment_too_large
SLC12A9	7	100826820	100867009	-0.262778904	PASS
SLC13A1	7	123113531	123199986	-0.388946609	PASS
SLC13A2	17	28473293	28497781	0.060555011	PASS
SLC13A3	20	46557823	46684467	-0.168668583	PASS
SLC13A4	7	135681237	135729258	-0.388946609	PASS
SLC13A5	17	6684713	6713567	0.128406487	PASS
SLC14A1	18	45687025	45752520	-0.376397843	PASS
SLC14A2	18	45212995	45683686	-0.376397843	PASS
SLC15A1	13	98683801	98752654	-0.390786075	PASS
SLC15A2	3	121894089	121944102	0.313454204	suppress_segment_too_large
SLC15A3	11	60937084	60952530	0.182439925	suppress_segment_too_large
SLC15A4	12	128793191	128823983	-0.240609783	PASS
SLC15A5	12	16188485	16277685	0.362961408	suppress_segment_too_large
SLC16A1	1	112911847	112957013	0.033763446	PASS
SLC16A10	6	111087503	111231194	-0.368590549	PASS
SLC16A11	17	7041630	7043923	0.128406487	PASS
SLC16A12	10	89430299	89556641	-0.39678585	PASS
SLC16A13	17	7036075	7040121	0.128406487	PASS
SLC16A14	2	230034974	230068999	0.025928102	PASS
SLC16A2	23	74421461	74533917	-0.012567603	PASS
SLC16A3	17	82228397	82261129	0.088516311	PASS
SLC16A4	1	110362848	110391082	0.033763446	PASS
SLC16A5	17	75087727	75106162	0.088516311	PASS
SLC16A6	17	68267026	68291267	0.088516311	PASS
SLC16A7	12	59596067	59789855	-0.202191512	PASS
SLC16A8	22	38078134	38084093	-0.575930959	PASS
SLC16A9	10	59650761	59736002	0.072405807	PASS
SLC17A1	6	25782897	25832059	0.048820648	PASS
SLC17A2	6	25912754	25930726	0.048820648	PASS
SLC17A3	6	25833066	25882286	0.048820648	PASS

SLC17A4	6	25754699	25781191	0.048820648	PASS
SLC17A5	6	73593379	73654155	-0.368590549	PASS
SLC17A6	11	22338097	22379503	-0.405444717	PASS
SLC17A7	19	49429401	49442360	0.14996833	PASS
SLC17A8	12	100357079	100422059	0.202141228	PASS
SLC17A9	20	62952647	62969585	-0.168668583	PASS
SLC18A1	8	20144855	20183206	-0.345962679	PASS
SLC18A2	10	117241073	117279430	0.063874692	PASS
SLC18A3	10	49610301	49612720	-0.404852538	PASS
SLC18B1	6	132769370	132813339	-0.458570262	PASS
SLC19A1	21	45493572	45544411	-0.064425456	suppress_segment_too_large
SLC19A2	1	169463909	169486003	-0.027073548	PASS
SLC19A3	2	227683763	227718031	0.025928102	PASS
SLC1A1	9	4490444	4587469	-0.310444659	PASS
SLC1A2	11	35251205	35420063	-0.405444717	PASS
SLC1A3	5	36606355	36688334	0.055007813	PASS
SLC1A4	2	64988477	65023865	-0.372959126	PASS
SLC1A5	19	46774883	46788594	0.14996833	PASS
SLC1A6	19	14950034	15022990	0.093487731	suppress_segment_too_large
SLC1A7	1	53087179	53142632	0.033763446	PASS
SLC20A1	2	112645857	112663827	-0.010901494	PASS
SLC20A2	8	42416475	42541926	-0.201142258	PASS
SLC22A1	6	160121789	160158718	-0.035448111	PASS
SLC22A10	11	63137867	63369718	0.182439925	suppress_segment_too_large
SLC22A11	11	64555626	64572875	0.182439925	suppress_segment_too_large
SLC22A12	11	64590641	64602353	0.182439925	suppress_segment_too_large
SLC22A13	3	38265812	38278757	-0.234617007	PASS
SLC22A14	3	38282294	38318575	-0.234617007	PASS
SLC22A15	1	115976498	116070054	0.033763446	PASS
SLC22A16	6	110424687	110476641	-0.368590549	PASS
SLC22A17	14	23346306	23352912	0.060212819	PASS
SLC22A18	11	2899721	2925246	-0.333835828	PASS
SLC22A18	11	2887780	2903740	-0.333835828	PASS
SLC22A2	6	160171061	160277638	-0.035448111	PASS
SLC22A23	6	3268962	3457022	0.048820648	PASS
SLC22A24	11	63079940	63144221	0.182439925	suppress_segment_too_large
SLC22A25	11	63163776	63229652	0.182439925	suppress_segment_too_large
SLC22A3	6	160348268	160452581	-0.035448111	PASS
SLC22A31	16	89195761	89201664	-0.371357732	PASS
SLC22A4	5	132294443	132344206	-0.293443042	PASS
SLC22A5	5	132369752	132395614	-0.293443042	PASS
SLC22A6	11	62936385	62984983	0.182439925	suppress_segment_too_large
SLC22A7	6	43295694	43305538	0.048820648	PASS
SLC22A8	11	62989154	63015839	0.182439925	suppress_segment_too_large
SLC22A9	11	63369789	63410294	0.182439925	suppress_segment_too_large
SLC23A1	5	139367196	139384553	-0.293443042	PASS

SLC23A2	20	4852356	5010293	-0.168668583	PASS
SLC23A3	2	219161465	219170095	0.025928102	PASS
SLC24A1	15	65611366	65660995	-0.697600509	PASS
SLC24A2	9	19507452	19786928	-0.310444659	PASS
SLC24A3	20	19212646	19722937	-0.168668583	PASS
SLC24A4	14	92322581	92501483	-0.192197564	PASS
SLC24A5	15	48120972	48142672	-0.396255771	PASS
SLC25A1	22	19175575	19178830	-0.575930959	PASS
SLC25A10	17	81712236	81721016	0.088516311	PASS
SLC25A11	17	4937130	4940251	0.128406487	PASS
SLC25A12	2	171784370	171999859	0.039726562	PASS
SLC25A13	7	96120220	96322147	-0.262778904	PASS
SLC25A14	23	130339888	130373361	-0.012567603	PASS
SLC25A15	13	40789412	40810111	-0.390786075	PASS
SLC25A16	10	68477999	68527474	0.072405807	PASS
SLC25A17	22	40769630	40819399	-0.575930959	PASS
SLC25A18	22	17563439	17590994	-0.575930959	PASS
SLC25A19	17	75272981	75289510	0.088516311	PASS
SLC25A2	5	141302629	141304045	-0.293443042	PASS
SLC25A20	3	48856931	48898993	-0.234617007	PASS
SLC25A21	14	36678431	37172866	0.060212819	PASS
SLC25A22	11	790475	798333	-0.333835828	PASS
SLC25A23	19	6436079	6465203	0.079632875	PASS
SLC25A24	1	108134036	108200849	0.033763446	PASS
SLC25A25	9	128068201	128109245	0.365190713	suppress_segment_too_large
SLC25A26	3	66133610	66388116	-0.234617007	PASS
SLC25A27	6	46652915	46678193	0.048820648	PASS
SLC25A28	10	99610522	99620609	-0.367947924	PASS
SLC25A29	14	100291111	100306547	-0.192197564	PASS
SLC25A3	12	98593591	98606379	0.202141228	PASS
SLC25A30	13	45393316	45418455	-0.390786075	PASS
SLC25A31	4	127730378	127774299	-0.011382299	PASS
SLC25A32	8	103398635	103415189	0.279445683	PASS
SLC25A33	1	9539482	9585179	0.373964873	suppress_segment_too_large
SLC25A34	1	15736405	15741396	0.033763446	PASS
SLC25A35	17	8287763	8295343	0.128406487	PASS
SLC25A36	3	140941830	140980961	-0.356957581	PASS
SLC25A37	8	23528805	23575463	-0.345962679	PASS
SLC25A38	3	39383324	39397351	-0.234617007	PASS
SLC25A39	17	44319625	44324870	0.088516311	PASS
SLC25A4	4	185143241	185150382	-0.462744716	PASS
SLC25A40	7	87833568	87876357	-0.262778904	PASS
SLC25A41	19	6426037	6433779	0.079632875	PASS
SLC25A42	19	19063999	19112888	0.093487731	suppress_segment_too_large
SLC25A43	23	119399060	119454478	-0.012567603	PASS
SLC25A44	1	156193932	156212796	0.103015788	PASS

SLC25A45	11	65375192	65383701	0.182439925	suppress_segment_too_large
SLC25A46	5	110738136	110765161	-0.293443042	PASS
SLC25A47	14	100323337	100330378	-0.192197564	PASS
SLC25A48	5	135579202	135889770	-0.293443042	PASS
SLC25A5	23	119468400	119471319	-0.012567603	PASS
SLC25A51	9	37879400	37904353	-0.310444659	PASS
SLC25A52	18	31759562	31760880	-0.376397843	PASS
SLC25A53	23	104099214	104157027	-0.012567603	PASS
SLC25A6	23	1386152	1392724	-0.012567603	PASS
SLC26A1	4	979073	993440	0.279089364	PASS
SLC26A10	12	57619527	57626151	-0.202191512	PASS
SLC26A11	17	80219699	80253500	0.088516311	PASS
SLC26A2	5	149960737	149993455	-0.293443042	PASS
SLC26A3	7	107765467	107803225	-0.388946609	PASS
SLC26A4	7	107660635	107717809	-0.388946609	PASS
SLC26A5	7	103352730	103446177	-0.388946609	PASS
SLC26A6	3	48625723	48635493	-0.234617007	PASS
SLC26A7	8	91209494	91398152	0.279445683	PASS
SLC26A8	6	35943514	36024868	0.048820648	PASS
SLC26A9	1	205913048	205943460	-0.256698369	PASS
SLC27A1	19	17468769	17506168	0.093487731	suppress_segment_too_large
SLC27A2	15	50182196	50236395	-0.396255771	PASS
SLC27A3	1	153774354	153780157	0.103015788	PASS
SLC27A4	9	128340646	128361470	0.365190713	suppress_segment_too_large
SLC27A5	19	58479512	58512413	0.063781462	PASS
SLC27A6	5	128538013	129033642	-0.293443042	PASS
SLC28A1	15	84884654	84945796	-0.697600509	PASS
SLC28A2	15	45252230	45277845	-0.396255771	PASS
SLC28A3	9	84275457	84340683	0.365190713	suppress_segment_too_large
SLC29A1	6	44219505	44234151	0.048820648	PASS
SLC29A2	11	66362521	66372214	0.182439925	suppress_segment_too_large
SLC29A3	10	71319258	71381423	0.072405807	PASS
SLC29A4	7	5274369	5306870	-0.69513118	PASS
SLC2A1	1	42925375	42959176	0.033763446	PASS
SLC2A10	20	46709487	46736347	-0.168668583	PASS
SLC2A11	22	23856703	23886309	-0.575930959	PASS
SLC2A12	6	133988697	134052636	-0.035448111	PASS
SLC2A13	12	39755021	40106089	-0.202191512	PASS
SLC2A14	12	7812512	7891148	-0.086128028	PASS
SLC2A2	3	170996348	171026750	0.318278996	suppress_segment_too_large
SLC2A3	12	7919230	7936275	-0.086128028	PASS
SLC2A4	17	7281667	7288257	0.128406487	PASS
SLC2A4RG	20	63739861	63743505	-0.168668583	PASS
SLC2A5	1	9035107	9088478	0.373964873	suppress_segment_too_large
SLC2A6	9	133471095	133479137	0.365190713	suppress_segment_too_large
SLC2A7	1	9003300	9026345	0.373964873	suppress_segment_too_large

SLC2A8	9	127397138	127408424	0.365190713	suppress_segment_too_large
SLC2A9	4	9771153	10054936	0.279089364	PASS
SLC30A1	1	211571568	211578742	-0.256698369	PASS
SLC30A10	1	219685427	219958647	-0.256698369	PASS
SLC30A2	1	26037252	26046133	0.033763446	PASS
SLC30A3	2	27253684	27275817	0.040498426	PASS
SLC30A4	15	45479611	45522807	-0.396255771	PASS
SLC30A5	5	69093646	69131069	-0.293443042	PASS
SLC30A6	2	32165841	32224379	0.040498426	PASS
SLC30A7	1	100896076	100981753	0.033763446	PASS
SLC30A8	8	116950273	117176714	0.279445683	PASS
SLC30A9	4	41990472	42090457	-0.011382299	PASS
SLC31A1	9	113221562	113264492	0.365190713	suppress_segment_too_large
SLC31A2	9	113150942	113164137	0.365190713	suppress_segment_too_large
SLC32A1	20	38724462	38729372	-0.168668583	PASS
SLC33A1	3	155821024	155854456	0.318278996	suppress_segment_too_large
SLC34A1	5	177379235	177398848	-0.150979337	PASS
SLC34A2	4	25648011	25678748	-0.458181871	PASS
SLC34A3	9	137230757	137236554	0.365190713	suppress_segment_too_large
SLC35A1	6	87470623	87512336	-0.368590549	PASS
SLC35A2	23	48903180	48911958	-0.012567603	PASS
SLC35A3	1	99969351	100035637	0.033763446	PASS
SLC35A4	5	140564456	140569103	-0.293443042	PASS
SLC35A5	3	112561709	112585577	0.313454204	suppress_segment_too_large
SLC35B1	17	49700934	49709014	0.088516311	PASS
SLC35B2	6	44254096	44257890	0.048820648	PASS
SLC35B3	6	8411463	8435611	0.048820648	PASS
SLC35B4	7	134289332	134317051	-0.388946609	PASS
SLC35C1	11	45804072	45813015	0.117376172	PASS
SLC35C2	20	46345980	46364458	-0.168668583	PASS
SLC35D1	1	66999332	67054099	0.033763446	PASS
SLC35D2	9	96313444	96383710	0.365190713	suppress_segment_too_large
SLC35D3	6	136922264	136925639	-0.035448111	PASS
SLC35E1	19	16549831	16572382	0.093487731	suppress_segment_too_large
SLC35E2A	1	1724838	1745999	0.373964873	suppress_segment_too_large
SLC35E2B	1	1659529	1692728	0.373964873	suppress_segment_too_large
SLC35E3	12	68746106	68793964	-0.202191512	PASS
SLC35E4	22	30635652	30669016	-0.575930959	PASS
SLC35F1	6	117907526	118317676	-0.368590549	PASS
SLC35F2	11	107790991	107928293	-0.356188624	PASS
SLC35F3	1	233904933	234324516	-0.256698369	PASS
SLC35F4	14	57563922	57982194	0.060212819	PASS
SLC35F5	2	113705011	113756823	-0.010901494	PASS
SLC35F6	2	26764284	26781231	0.040498426	PASS
SLC35G1	10	93893973	93956062	-0.39678585	PASS
SLC35G2	3	136818647	136855892	0.313454204	suppress_segment_too_large

SLC35G3	17	35192520	35194523	0.060555011	PASS
SLC35G4	18	11609596	11610612	-0.052305056	suppress_segment_too_large
SLC35G5	8	11330888	11332208	-0.345962679	PASS
SLC35G6	17	7481332	7483496	0.128406487	PASS
SLC36A1	5	151437046	151492381	-0.293443042	PASS
SLC36A2	5	151314978	151347590	-0.293443042	PASS
SLC36A3	5	151276762	151303766	-0.293443042	PASS
SLC36A4	11	93144171	93197964	0.062969153	PASS
SLC37A1	21	42496008	42581440	-0.064425456	suppress_segment_too_large
SLC37A2	11	125063067	125090312	-0.419612865	PASS
SLC37A3	7	140293693	140404433	-0.388946609	PASS
SLC37A4	11	119024114	119030906	-0.356188624	PASS
SLC38A1	12	46183063	46270017	-0.202191512	PASS
SLC38A10	17	81245000	81295547	0.088516311	PASS
SLC38A11	2	164896186	164955525	0.039726562	PASS
SLC38A2	12	46358189	46372867	-0.202191512	PASS
SLC38A3	3	50205246	50221486	-0.234617007	PASS
SLC38A4	12	46764761	46832408	-0.202191512	PASS
SLC38A5	23	48458537	48470256	-0.012567603	PASS
SLC38A6	14	60981114	61083733	0.060212819	PASS
SLC38A7	16	58665109	58685104	-0.371357732	PASS
SLC38A8	16	84009667	84042636	-0.371357732	PASS
SLC38A9	5	55625845	55773194	-0.293443042	PASS
SLC39A1	1	153959099	153968184	0.103015788	PASS
SLC39A10	2	195575977	195737702	0.025928102	PASS
SLC39A11	17	72645949	73092712	0.088516311	PASS
SLC39A12	10	17951839	18043292	0.039811807	PASS
SLC39A13	11	47407132	47416501	0.117376172	PASS
SLC39A14	8	22367249	22434129	-0.345962679	PASS
SLC39A2	14	20999255	21001871	0.060212819	PASS
SLC39A3	19	2732204	2740152	0.079632875	PASS
SLC39A4	8	144409742	144416895	0.307788765	PASS
SLC39A5	12	56230049	56237846	-0.202191512	PASS
SLC39A6	18	36108532	36129385	-0.376397843	PASS
SLC39A7	6	33200445	33204439	0.048820648	PASS
SLC39A8	4	102251041	102431258	-0.011382299	PASS
SLC39A9	14	69398015	69462388	0.060212819	PASS
SLC3A1	2	44275458	44321494	0.040498426	PASS
SLC3A2	11	62856102	62888875	0.182439925	suppress_segment_too_large
SLC40A1	2	189560579	189583758	0.025928102	PASS
SLC41A1	1	205789093	205813748	-0.256698369	PASS
SLC41A2	12	104802553	104958744	0.202141228	PASS
SLC41A3	3	126006355	126101561	0.313454204	suppress_segment_too_large
SLC43A1	11	57484534	57515786	-0.129266491	PASS
SLC43A2	17	1569267	1628886	0.128406487	PASS
SLC43A3	11	57406954	57427580	-0.129266491	PASS

SLC44A1	9	105244622	105439171	0.365190713	suppress_segment_too_large
SLC44A2	19	10602457	10644559	0.093487731	suppress_segment_too_large
SLC44A3	1	94820342	94895246	0.033763446	PASS
SLC44A4	6	31863192	31879046	0.048820648	PASS
SLC44A5	1	75202131	75611116	0.033763446	PASS
SLC45A1	1	8317826	8344167	0.373964873	suppress_segment_too_large
SLC45A2	5	33944616	33984730	0.055007813	PASS
SLC45A3	1	205657851	205680459	-0.256698369	PASS
SLC45A4	8	141207166	141308305	0.113969953	PASS
SLC46A1	17	28394756	28407197	0.060555011	PASS
SLC46A2	9	112878920	112890913	0.365190713	suppress_segment_too_large
SLC46A3	13	28700064	28718970	-0.390786075	PASS
SLC47A1	17	19495385	19579034	0.024610076	PASS
SLC47A2	17	19678288	19718979	0.024610076	PASS
SLC48A1	12	47753916	47782753	-0.202191512	PASS
SLC49A3	4	681829	689441	0.279089364	PASS
SLC4A1	17	44248385	44268141	0.088516311	PASS
SLC4A10	2	161424332	161985282	0.039726562	PASS
SLC4A11	20	3227417	3239559	-0.168668583	PASS
SLC4A1AI	2	27663471	27694976	0.040498426	PASS
SLC4A2	7	151057210	151076527	-0.388946609	PASS
SLC4A3	2	219627327	219641980	0.025928102	PASS
SLC4A4	4	71062667	71572087	-0.011382299	PASS
SLC4A5	2	74216242	74343414	-0.372959126	PASS
SLC4A7	3	27372721	27484420	0.311018244	suppress_segment_too_large
SLC4A8	12	51391317	51515763	-0.202191512	PASS
SLC4A9	5	140360202	140375143	-0.293443042	PASS
SLC50A1	1	155135344	155138857	0.103015788	PASS
SLC51A	3	196211487	196243178	0.326834516	PASS
SLC51B	15	65045370	65053396	-0.697600509	PASS
SLC52A1	17	5032600	5052009	0.128406487	PASS
SLC52A2	8	144354135	144361286	0.307788765	PASS
SLC52A3	20	760080	776015	-0.168668583	PASS
SLC5A1	22	32043032	32113029	-0.575930959	PASS
SLC5A10	17	18950345	19022595	0.024610076	PASS
SLC5A11	16	24845841	24911628	0.069936844	PASS
SLC5A12	11	26667019	26723427	-0.405444717	PASS
SLC5A2	16	31483002	31490860	0.069936844	PASS
SLC5A3	21	34073570	34106262	0.12860881	suppress_segment_too_large
SLC5A4	22	32218476	32255341	-0.575930959	PASS
SLC5A5	19	17871973	17895174	0.093487731	suppress_segment_too_large
SLC5A6	2	27199587	27212958	0.040498426	PASS
SLC5A7	2	107986523	108013994	-0.532032081	PASS
SLC5A8	12	101155493	101210407	0.202141228	PASS
SLC5A9	1	48222685	48248644	0.033763446	PASS
SLC6A1	3	10992186	11039249	0.311018244	suppress_segment_too_large

SLC6A11	3	10816200	10940733	0.311018244	suppress_segment_too_large
SLC6A12	12	190077	214570	-0.086128028	PASS
SLC6A13	12	220621	262873	-0.086128028	PASS
SLC6A14	23	116436622	116461458	-0.012567603	PASS
SLC6A15	12	84859488	84913615	0.202141228	PASS
SLC6A16	19	49289638	49325225	0.14996833	PASS
SLC6A17	1	110150486	110202202	0.033763446	PASS
SLC6A18	5	1225355	1246189	0.055007813	PASS
SLC6A19	5	1201595	1225117	0.055007813	PASS
SLC6A2	16	55655604	55706192	-0.371357732	PASS
SLC6A20	3	45755450	45796535	-0.234617007	PASS
SLC6A3	5	1392790	1445430	0.055007813	PASS
SLC6A4	17	30194319	30236002	0.060555011	PASS
SLC6A5	11	20599400	20659285	-0.405444717	PASS
SLC6A6	3	14402576	14489349	0.311018244	suppress_segment_too_large
SLC6A7	5	150189957	150222788	-0.293443042	PASS
SLC6A8	23	153688099	153696593	-0.012567603	PASS
SLC6A9	1	43991500	44031467	0.033763446	PASS
SLC7A1	13	29509410	29595688	-0.390786075	PASS
SLC7A10	19	33208664	33225850	0.093487731	suppress_segment_too_large
SLC7A11	4	138164097	138242349	-0.011382299	PASS
SLC7A13	8	86214052	86321146	0.279445683	PASS
SLC7A14	3	170459584	170586074	0.318278996	suppress_segment_too_large
SLC7A2	8	17497088	17570573	-0.345962679	PASS
SLC7A3	23	70925582	70931125	-0.012567603	PASS
SLC7A4	22	21028718	21032840	-0.575930959	PASS
SLC7A5	16	87830023	87869488	-0.371357732	PASS
SLC7A6	16	68264516	68301823	-0.371357732	PASS
SLC7A6OS	16	68284503	68310946	-0.371357732	PASS
SLC7A7	14	22773222	22829820	0.060212819	PASS
SLC7A8	14	23125295	23183674	0.060212819	PASS
SLC7A9	19	32830509	32869766	0.093487731	suppress_segment_too_large
SLC8A1	2	40097270	40611053	0.040498426	PASS
SLC8A2	19	47428017	47472168	0.14996833	PASS
SLC8A3	14	70044217	70189070	0.060212819	PASS
SLC8B1	12	113298759	113359493	0.202141228	PASS
SLC9A1	1	27098815	27166981	0.033763446	PASS
SLC9A2	2	102619707	102711318	0.048238121	PASS
SLC9A3	5	470458	524332	0.055007813	PASS
SLC9A3R1	17	74748652	74769353	0.088516311	PASS
SLC9A3R2	16	2025356	2039026	0.069936844	PASS
SLC9A4	2	102473303	102533972	0.048238121	PASS
SLC9A5	16	67237683	67272190	-0.371357732	PASS
SLC9A6	23	135973841	136047269	-0.012567603	PASS
SLC9A7	23	46599252	46759172	-0.012567603	PASS
SLC9A8	20	49812713	49892242	-0.168668583	PASS

SLC9A9	3	143265222	143848531	0.318278996	suppress_segment_too_large
SLC9B1	4	102885048	103019739	-0.011382299	PASS
SLC9B2	4	103019868	103085829	-0.011382299	PASS
SLC9C1	3	112140887	112294258	0.313454204	suppress_segment_too_large
SLC9C2	1	173500464	173603094	-0.027073548	PASS
SLCO1A2	12	21264600	21419594	0.362961408	suppress_segment_too_large
SLCO1B1	12	21131202	21239246	0.362961408	suppress_segment_too_large
SLCO1B3	12	20810702	20916911	0.362961408	suppress_segment_too_large
SLCO1B7	12	20962768	21092745	0.362961408	suppress_segment_too_large
SLCO1C1	12	20695355	20753386	0.362961408	suppress_segment_too_large
SLCO2A1	3	133928145	134052184	0.313454204	suppress_segment_too_large
SLCO2B1	11	75100563	75206549	0.062969153	PASS
SLCO3A1	15	91853695	92172435	-0.697600509	PASS
SLCO4A1	20	62642445	62685785	-0.168668583	PASS
SLCO4C1	5	102233986	102296549	-0.293443042	PASS
SLCO5A1	8	69667047	69835064	-0.201142258	PASS
SLCO6A1	5	102371782	102499016	-0.293443042	PASS
SLF1	5	94618347	94739436	-0.293443042	PASS
SLF2	10	100912569	100965136	-0.367947924	PASS
SLFN11	17	35350305	35373701	0.060555011	PASS
SLFN12	17	35411060	35433283	0.060555011	PASS
SLFN12L	17	35464249	35537861	0.060555011	PASS
SLFN13	17	35435096	35448837	0.060555011	PASS
SLFN14	17	35548125	35558098	0.060555011	PASS
SLFN5	17	35243036	35273655	0.060555011	PASS
SLFNL1	1	41015597	41023237	0.033763446	PASS
SLIRP	14	77708071	77761104	-0.192197564	PASS
SLIT1	10	96998038	97185920	-0.367947924	PASS
SLIT2	4	20253260	20620561	0.279089364	PASS
SLIT3	5	168661733	169301129	-0.150979337	PASS
SLITRK1	13	83877205	83882393	-0.390786075	PASS
SLITRK2	23	145817832	145829856	-0.012567603	PASS
SLITRK3	3	165186720	165197109	0.318278996	suppress_segment_too_large
SLITRK4	23	143622790	143635777	-0.012567603	PASS
SLITRK5	13	87672615	87696272	-0.390786075	PASS
SLITRK6	13	85792787	85806683	-0.390786075	PASS
SLK	10	103967201	104029233	-0.367947924	PASS
SLMAP	3	57755450	57929168	-0.234617007	PASS
SLN	11	107707378	107719693	-0.356188624	PASS
SLPI	20	45252239	45254564	-0.168668583	PASS
SLTM	15	58879045	58933653	-0.697600509	PASS
SLU7	5	160401641	160421711	-0.150979337	PASS
SLURP1	8	142740944	142742411	0.113969953	PASS
SLURP2	8	142764338	142769844	0.113969953	PASS
SLX1A	16	30193887	30197561	0.069936844	PASS
SLX1B	16	29454501	29458219	0.069936844	PASS

SLX4	16	3581181	3611598	0.069936844	PASS
SLX4IP	20	10435303	10636829	-0.168668583	PASS
SMAD1	4	145481194	145558079	-0.011382299	PASS
SMAD2	18	47808957	47931146	-0.376397843	PASS
SMAD3	15	67063763	67195195	-0.697600509	PASS
SMAD4	18	51028394	51085045	-0.376397843	PASS
SMAD5	5	136132845	136188747	-0.293443042	PASS
SMAD6	15	66702228	66782848	-0.697600509	PASS
SMAD7	18	48919853	48952052	-0.376397843	PASS
SMAD9	13	36844831	36920765	-0.390786075	PASS
SMAGP	12	51244558	51270890	-0.202191512	PASS
SMAP1	6	70667776	70862015	-0.368590549	PASS
SMAP2	1	40344850	40423326	0.033763446	PASS
SMARCA1	23	129446501	129523500	-0.012567603	PASS
SMARCA2	9	1980290	2193624	-0.310444659	PASS
SMARCA4	19	10960825	11079426	0.093487731	suppress_segment_too_large
SMARCA5	4	143513463	143557486	-0.011382299	PASS
SMARCAD	4	94207611	94291292	-0.011382299	PASS
SMARCAL	2	216412414	216483053	0.025928102	PASS
SMARCB1	22	23786931	23838008	-0.575930959	PASS
SMARCC1	3	47585272	47782106	-0.234617007	PASS
SMARCC2	12	56162983	56189567	-0.202191512	PASS
SMARCD1	12	50084972	50100712	-0.202191512	PASS
SMARCD2	17	63832081	63843065	0.088516311	PASS
SMARCD3	7	151238764	151277896	-0.388946609	PASS
SMARCE1	17	40624962	40648864	0.060555011	PASS
SMC1A	23	53374149	53422728	-0.012567603	PASS
SMC1B	22	45344063	45413619	-0.808211634	PASS
SMC2	9	104094260	104141417	0.365190713	suppress_segment_too_large
SMC3	10	110567691	110604636	0.063874692	PASS
SMC4	3	160399274	160434962	0.318278996	suppress_segment_too_large
SMC5	9	70258962	70354888	0.365190713	suppress_segment_too_large
SMC6	2	17663812	17800242	0.040498426	PASS
SMCHD1	18	2655738	2805017	-0.052305056	suppress_segment_too_large
SMCO1	3	196506877	196515366	0.326834516	PASS
SMCO2	12	27466810	27502185	0.362961408	suppress_segment_too_large
SMCO3	12	14804650	14814182	0.362961408	suppress_segment_too_large
SMCO4	11	93478472	93543508	0.062969153	PASS
SMCP	1	152878317	152885047	0.103015788	PASS
SMCR8	17	18315310	18328055	0.024610076	PASS
SMDT1	22	42079691	42084284	-0.575930959	PASS
SMG1	16	18804853	18926454	0.069936844	PASS
SMG5	1	156249224	156282825	0.103015788	PASS
SMG6	17	2059839	2303771	0.128406487	PASS
SMG7	1	183472216	183598246	-0.027073548	PASS
SMG8	17	59209400	59215247	0.088516311	PASS

SMG9	19	43727992	43754990	0.14996833	PASS
SMIM1	1	3772761	3775982	0.373964873	suppress_segment_too_large
SMIM10	23	134990938	134992473	-0.012567603	PASS
SMIM10L1	12	11171222	11176016	0.362961408	suppress_segment_too_large
SMIM10L2	23	135421943	135428074	-0.012567603	PASS
SMIM10L2	23	135094987	135098634	-0.012567603	PASS
SMIM12	1	34712737	34859816	0.033763446	PASS
SMIM13	6	11094033	11138733	0.048820648	PASS
SMIM14	4	39546330	39639090	-0.011382299	PASS
SMIM15	5	61157709	61162474	-0.293443042	PASS
SMIM17	19	56643145	56655766	-0.180829161	PASS
SMIM18	8	30638600	30646064	-0.345962679	PASS
SMIM19	8	42541155	42555193	-0.201142258	PASS
SMIM2	13	44143543	44161257	-0.390786075	PASS
SMIM20	4	25861830	25929874	-0.458181871	PASS
SMIM21	18	75409476	75427703	-0.376397843	PASS
SMIM22	16	4788397	4796491	0.069936844	PASS
SMIM23	5	171782432	171796126	-0.150979337	PASS
SMIM24	19	3473986	3480542	0.079632875	PASS
SMIM26	20	18567347	18569563	-0.168668583	PASS
SMIM27	9	32551144	32568621	-0.310444659	PASS
SMIM29	6	34246380	34249470	0.048820648	PASS
SMIM3	5	150777946	150796734	-0.293443042	PASS
SMIM31	4	164754064	164803795	-0.011382299	PASS
SMIM35	11	118003634	118088299	-0.356188624	PASS
SMIM36	17	55448433	55511444	0.088516311	PASS
SMIM4	3	52534013	52579237	-0.234617007	PASS
SMIM5	17	75633434	75641404	0.088516311	PASS
SMIM6	17	75646243	75647977	0.088516311	PASS
SMIM7	19	16630751	16660442	0.093487731	suppress_segment_too_large
SMIM8	6	87322583	87399749	-0.368590549	PASS
SMIM9	23	154823348	154834662	-0.012567603	PASS
SMKR1	7	129502479	129512932	-0.388946609	PASS
SMLR1	6	130827406	130837135	-0.458570262	PASS
SMN1	5	70925030	70953942	-0.293443042	PASS
SMN2	5	70049612	70078522	-0.293443042	PASS
SMNDC1	10	110290730	110304951	0.063874692	PASS
SMO	7	129188872	129213545	-0.388946609	PASS
SMOC1	14	69854131	70032366	0.060212819	PASS
SMOC2	6	168441151	168673445	-0.035448111	PASS
SMOX	20	4120980	4187747	-0.168668583	PASS
SMPD1	11	6390431	6394998	-0.405444717	PASS
SMPD2	6	109440763	109443919	-0.368590549	PASS
SMPD3	16	68358325	68448688	-0.371357732	PASS
SMPD4	2	130151392	130182750	-0.475215623	PASS
SMPDL3A	6	122789049	122809720	-1.97829255	PASS

SMPDL3B	1	27934993	27959157	0.033763446	PASS
SMPX	23	21705972	21758163	-0.012567603	PASS
SMR3A	4	70360761	70367158	-0.011382299	PASS
SMR3B	4	70370093	70390244	-0.011382299	PASS
SMS	23	21940573	21994835	-0.012567603	PASS
SMTN	22	31064105	31104757	-0.575930959	PASS
SMTNL1	11	57542641	57550274	-0.129266491	PASS
SMTNL2	17	4583999	4608319	0.128406487	PASS
SMU1	9	33041764	33076659	-0.310444659	PASS
SMUG1	12	54121277	54189008	-0.202191512	PASS
SMURF1	7	99027438	99144100	-0.262778904	PASS
SMURF2	17	64542295	64662068	0.088516311	PASS
SMYD1	2	88067780	88113387	-0.340781246	PASS
SMYD2	1	214281102	214337131	-0.256698369	PASS
SMYD3	1	245749342	246507312	-0.368111568	PASS
SMYD4	17	1779485	1830634	0.128406487	PASS
SMYD5	2	73214222	73227237	-0.372959126	PASS
SNAI1	20	49982999	49988886	-0.168668583	PASS
SNAI2	8	48917604	48921740	-0.201142258	PASS
SNAI3	16	88677682	88686493	-0.371357732	PASS
SNAP23	15	42491233	42545356	-0.396255771	PASS
SNAP25	20	10218830	10307418	-0.168668583	PASS
SNAP29	22	20858983	20891218	-0.575930959	PASS
SNAP47	1	227728539	227781231	-0.256698369	PASS
SNAP91	6	83552880	83709691	-0.368590549	PASS
SNAPC1	14	61762357	61796428	0.060212819	PASS
SNAPC2	19	7920316	7923250	0.079632875	PASS
SNAPC3	9	15422704	15465953	-0.310444659	PASS
SNAPC4	9	136375577	136400168	0.365190713	suppress_segment_too_large
SNAPC5	15	66490135	66497813	-0.697600509	PASS
SNAPIN	1	153658654	153661830	0.103015788	PASS
SNCA	4	89724099	89838315	-0.011382299	PASS
SNCAIP	5	122311354	122464219	-0.293443042	PASS
SNCB	5	176620084	176630556	-0.150979337	PASS
SNCG	10	86958618	86963260	-0.292453993	PASS
SND1	7	127652180	128092609	-0.388946609	PASS
SNED1	2	240998838	241095568	0.025928102	PASS
SNF8	17	48929316	48945117	0.088516311	PASS
SNHG28	1	159834474	159873053	-0.467855874	PASS
SNIP1	1	37534449	37554344	0.033763446	PASS
SNN	16	11668414	11679159	0.069936844	PASS
SNORC	2	232857270	232878708	0.025928102	PASS
SNPH	20	1266280	1309328	-0.168668583	PASS
SNRK	3	43286512	43424764	-0.234617007	PASS
SNRNP20(	2	96274336	96305515	0.048238121	PASS
SNRNP25	16	53010	57669	0.069936844	PASS

SNRNP27	2	69893560	69905575	-0.372959126	PASS
SNRNP35	12	123457641	123473154	0.202141228	PASS
SNRNP40	1	31259568	31296782	0.033763446	PASS
SNRNP48	6	7590199	7611967	0.048820648	PASS
SNRNP70	19	49085419	49108605	0.14996833	PASS
SNRPA	19	40750637	40765389	0.093487731	suppress_segment_too_large
SNRPA1	15	101281510	101295282	-0.697600509	PASS
SNRPB	20	2461634	2470853	-0.168668583	PASS
SNRPB2	20	16729961	16742563	-0.168668583	PASS
SNRPC	6	34757406	34773794	0.048820648	PASS
SNRPD1	18	21612267	21633524	-0.376397843	PASS
SNRPD2	19	45687454	45692569	0.14996833	PASS
SNRPD3	22	24555503	24609980	-0.575930959	PASS
SNRPE	1	203861603	203870550	-0.256698369	PASS
SNRPF	12	95858928	95903828	0.202141228	PASS
SNRPG	2	70281362	70293771	-0.372959126	PASS
SNRPN	15	24823637	24978723	-0.396255771	PASS
SNTA1	20	33407955	33443892	-0.168668583	PASS
SNTB1	8	120535745	120813273	0.279445683	PASS
SNTB2	16	69187129	69309052	-0.371357732	PASS
SNTG1	8	49909789	50796691	-0.201142258	PASS
SNTG2	2	950868	1367613	0.040498426	PASS
SNTN	3	63652668	63679020	-0.234617007	PASS
SNU13	22	41673930	41690504	-0.575930959	PASS
SNUPN	15	75598083	75626469	-0.697600509	PASS
SNURF	15	24954986	24977850	-0.396255771	PASS
SNW1	14	77717599	77761207	-0.192197564	PASS
SNX1	15	64094123	64146090	-0.697600509	PASS
SNX10	7	26291895	26374329	-0.69513118	PASS
SNX11	17	48103357	48123074	0.088516311	PASS
SNX12	23	71056332	71073426	-0.012567603	PASS
SNX13	7	17790761	17940501	-0.69513118	PASS
SNX14	6	85505496	85594156	-0.368590549	PASS
SNX15	11	65027408	65040572	0.182439925	suppress_segment_too_large
SNX16	8	81799581	81842866	0.279445683	PASS
SNX17	2	27370496	27377533	0.040498426	PASS
SNX18	5	54517759	54546585	-0.293443042	PASS
SNX19	11	130875436	130916509	-0.419612865	PASS
SNX2	5	122774996	122830108	-0.293443042	PASS
SNX20	16	50666300	50681353	0.069936844	PASS
SNX21	20	45833810	45843275	-0.168668583	PASS
SNX22	15	64151715	64157481	-0.697600509	PASS
SNX24	5	122843439	123029354	-0.293443042	PASS
SNX25	4	185204237	185370185	-0.462744716	PASS
SNX27	1	151612006	151699091	0.103015788	PASS
SNX29	16	11976737	12574289	0.069936844	PASS

SNX3	6	108211222	108261260	-0.368590549	PASS
SNX30	9	112750838	112881671	0.365190713	suppress_segment_too_large
SNX31	8	100572882	100663415	0.279445683	PASS
SNX32	11	65833641	65856896	0.182439925	suppress_segment_too_large
SNX33	15	75647906	75662301	-0.697600509	PASS
SNX4	3	125446644	125520197	0.313454204	suppress_segment_too_large
SNX5	20	17941597	17968980	-0.168668583	PASS
SNX6	14	34561094	34630183	0.060212819	PASS
SNX7	1	98661701	98760500	0.033763446	PASS
SNX8	7	2251770	2354318	-0.69513118	PASS
SNX9	6	157700387	157945077	-0.035448111	PASS
SOAT1	1	179293714	179358680	-0.027073548	PASS
SOAT2	12	53103518	53124538	-0.202191512	PASS
SOBP	6	107489958	107660167	-0.368590549	PASS
SOCS1	16	11254405	11256200	0.069936844	PASS
SOCS2	12	93569814	93583487	0.202141228	PASS
SOCS3	17	78356778	78360077	0.088516311	PASS
SOCS4	14	55027230	55049488	0.060212819	PASS
SOCS5	2	46698952	46780245	0.040498426	PASS
SOCS6	18	70288901	70330200	-0.376397843	PASS
SOCS7	17	38352228	38405593	0.060555011	PASS
SOD1	21	31659622	31668931	0.12860881	suppress_segment_too_large
SOD2	6	159669057	159762529	-0.035448111	PASS
SOD3	4	24789912	24800842	0.279089364	PASS
SOGA1	20	36777442	36863686	-0.168668583	PASS
SOGA3	6	127472794	127519191	-0.458570262	PASS
SOHLH1	9	135693407	135699528	0.365190713	suppress_segment_too_large
SOHLH2	13	36168208	36214615	-0.390786075	PASS
SON	21	33542618	33577481	0.12860881	suppress_segment_too_large
SORBS1	10	95311771	95561414	-0.39678585	PASS
SORBS2	4	185585444	185956652	-0.462744716	PASS
SORBS3	8	22544986	22575788	-0.345962679	PASS
SORCS1	10	106573663	107164534	-0.367947924	PASS
SORCS2	4	7192538	7742836	0.279089364	PASS
SORCS3	10	104641101	105265235	-0.367947924	PASS
SORD	15	45023104	45077185	-0.396255771	PASS
SORL1	11	121452203	121633693	-0.356188624	PASS
SORT1	1	109309568	109397951	0.033763446	PASS
SOS1	2	38981396	39124345	0.040498426	PASS
SOS2	14	50117120	50231558	0.060212819	PASS
SOST	17	43753731	43758788	0.088516311	PASS
SOSTDC1	7	16461481	16530580	-0.69513118	PASS
SOWAHA	5	132813587	132816797	-0.293443042	PASS
SOWAHB	4	76894928	76898147	-0.011382299	PASS
SOWAHC	2	109614334	109618990	-0.010901494	PASS
SOWAHD	23	119758613	119760164	-0.012567603	PASS

SOX1	13	112067647	112070488	-0.390786075	PASS
SOX10	22	37970686	37987422	-0.575930959	PASS
SOX11	2	5692667	5701385	0.040498426	PASS
SOX12	20	325595	330224	-0.168668583	PASS
SOX13	1	204073115	204127743	-0.256698369	PASS
SOX14	3	137764284	137766338	0.313454204	suppress_segment_too_large
SOX15	17	7588178	7590170	0.128406487	PASS
SOX17	8	54457935	54460888	-0.201142258	PASS
SOX18	20	64047582	64049641	-0.168668583	PASS
SOX2	3	181711924	181714436	0.318278996	suppress_segment_too_large
SOX21	13	94709622	94712399	-0.390786075	PASS
SOX3	23	140502985	140505116	-0.012567603	PASS
SOX30	5	157625679	157671480	-0.150979337	PASS
SOX4	6	21592768	21598619	0.048820648	PASS
SOX5	12	23529500	24562544	0.362961408	suppress_segment_too_large
SOX6	11	15966449	16739591	-0.405444717	PASS
SOX7	8	10723768	10730512	-0.345962679	PASS
SOX8	16	981808	986979	0.069936844	PASS
SOX9	17	72121020	72126420	0.088516311	PASS
SP1	12	53380176	53416446	-0.202191512	PASS
SP100	2	230415942	230544090	0.025928102	PASS
SP110	2	230167293	230225729	0.025928102	PASS
SP140	2	230203110	230313215	0.025928102	PASS
SP140L	2	230327184	230403732	0.025928102	PASS
SP2	17	47896150	47928957	0.088516311	PASS
SP3	2	173906459	173965702	0.039726562	PASS
SP4	7	21428034	21514822	-0.69513118	PASS
SP5	2	170715351	170718078	0.039726562	PASS
SP6	17	47844908	47855874	0.088516311	PASS
SP7	12	53326575	53345315	-0.202191512	PASS
SP8	7	20782283	20786886	-0.69513118	PASS
SP9	2	174334946	174338492	0.039726562	PASS
SPA17	11	124673798	124697518	-0.419612865	PASS
SPAAR	9	35909483	35937153	-0.310444659	PASS
SPACA1	6	88047789	88066832	-0.368590549	PASS
SPACA3	17	32970376	32997877	0.060555011	PASS
SPACA4	19	48606743	48607714	0.14996833	PASS
SPACA5B	23	48130657	48132613	-0.012567603	PASS
SPACA6	19	51689128	51712387	-0.016761391	PASS
SPACA7	13	112376319	112434689	-0.390786075	PASS
SPACA9	9	132878027	132890201	0.365190713	suppress_segment_too_large
SPAG1	8	100157906	100259278	0.279445683	PASS
SPAG11A	8	7847876	7868867	-0.345962679	PASS
SPAG11B	8	7442684	7463674	-0.345962679	PASS
SPAG16	2	213284379	214410501	0.025928102	PASS
SPAG17	1	117953861	118185223	0.033763446	PASS

SPAG4	20	35615892	35621049	-0.168668583	PASS
SPAG5	17	28577565	28599279	0.060555011	PASS
SPAG6	10	22345445	22454224	0.039811807	PASS
SPAG7	17	4959226	4967872	0.128406487	PASS
SPAG8	9	35808045	35812272	-0.310444659	PASS
SPAG9	17	50962174	51120865	0.088516311	PASS
SPAM1	7	123925237	123971414	-0.388946609	PASS
SPANXB1	23	141002591	141003706	-0.012567603	PASS
SPANXC	23	141241463	141242496	-0.012567603	PASS
SPANXD	23	141697411	141698739	-0.012567603	PASS
SPANXN1	23	145246828	145256112	-0.012567603	PASS
SPANXN2	23	143711955	143721423	-0.012567603	PASS
SPANXN3	23	143508735	143517475	-0.012567603	PASS
SPANXN4	23	143025918	143034702	-0.012567603	PASS
SPANXN5	23	52796144	52798101	-0.012567603	PASS
SPARC	5	151661096	151687165	-0.293443042	PASS
SPARCL1	4	87473335	87531061	-0.011382299	PASS
SPART	13	36301638	36370180	-0.390786075	PASS
SPAST	2	32063547	32157637	0.040498426	PASS
SPATA1	1	84506300	84566194	0.033763446	PASS
SPATA12	3	57060441	57075432	-0.234617007	PASS
SPATA13	13	23979805	24307074	-0.390786075	PASS
SPATA16	3	172889358	173141268	0.318278996	suppress_segment_too_large
SPATA17	1	217631324	217871696	-0.256698369	PASS
SPATA18	4	52051331	52097292	-0.011382299	PASS
SPATA19	11	133840631	133845538	-0.419612865	PASS
SPATA2	20	49903391	49915508	-0.168668583	PASS
SPATA20	17	50543058	50555852	0.088516311	PASS
SPATA21	1	16387117	16437424	0.033763446	PASS
SPATA22	17	3440019	3513852	0.128406487	PASS
SPATA24	5	139396563	139404088	-0.293443042	PASS
SPATA25	20	45886489	45887635	-0.168668583	PASS
SPATA2L	16	89696343	89701705	-0.371357732	PASS
SPATA3	2	230990324	231025055	0.025928102	PASS
SPATA31A	9	39355669	39361959	-0.310444659	PASS
SPATA31A	9	66986304	66992583	-0.310444659	PASS
SPATA31A	9	60914374	60920650	-0.310444659	PASS
SPATA31A	9	42183659	42189882	-0.310444659	PASS
SPATA31A	9	61190003	61196280	-0.310444659	PASS
SPATA31D	9	81988772	81995256	0.365190713	suppress_segment_too_large
SPATA31D	9	81943586	81950038	0.365190713	suppress_segment_too_large
SPATA31D	9	81928514	81934948	0.365190713	suppress_segment_too_large
SPATA31E	9	87882826	87888899	0.365190713	suppress_segment_too_large
SPATA32	17	45254393	45262112	0.088516311	PASS
SPATA33	16	89657802	89671272	-0.371357732	PASS
SPATA4	4	176184638	176195671	-0.011382299	PASS

SPATA45	1	212830141	212847649	-0.256698369	PASS
SPATA46	1	162373203	162376870	-0.027073548	PASS
SPATA48	7	50096036	50159830	-0.750061359	PASS
SPATA5	4	122923074	123319450	-0.011382299	PASS
SPATA5L1	15	45402331	45421419	-0.396255771	PASS
SPATA6	1	48295372	48472208	0.033763446	PASS
SPATA6L	9	4553386	4666674	-0.310444659	PASS
SPATA7	14	88384924	88470350	-0.192197564	PASS
SPATA8	15	96783389	96785615	-0.697600509	PASS
SPATA9	5	95652181	95698711	-0.293443042	PASS
SPATC1	8	144012414	144047085	0.307788765	PASS
SPATC1L	21	46161148	46184476	-0.064425456	suppress_segment_too_large
SPATS1	6	44342660	44377167	0.048820648	PASS
SPATS2	12	49366584	49527424	-0.202191512	PASS
SPATS2L	2	200305881	200482263	0.025928102	PASS
SPC24	19	11131520	11155808	0.093487731	suppress_segment_too_large
SPC25	2	168834132	168913371	0.039726562	PASS
SPCS1	3	52704955	52711146	-0.234617007	PASS
SPCS2	11	74949247	74979031	0.062969153	PASS
SPCS3	4	176319964	176332245	-0.011382299	PASS
SPDEF	6	34537802	34556333	0.048820648	PASS
SPDL1	5	169583634	169604778	-0.150979337	PASS
SPDYA	2	28782517	28850611	0.040498426	PASS
SPDYC	11	65170154	65173244	0.182439925	suppress_segment_too_large
SPDYE1	7	44000889	44010122	-0.69513118	PASS
SPDYE16	7	76531319	76541459	-0.262778904	PASS
SPDYE2	7	102551232	102562308	-0.388946609	PASS
SPDYE2B	7	102650325	102661398	-0.388946609	PASS
SPDYE3	7	100307702	100322196	-0.262778904	PASS
SPDYE4	17	8753106	8758559	0.128406487	PASS
SPDYE5	7	75493625	75504304	-0.262778904	PASS
SPDYE6	7	102347206	102356444	-0.388946609	PASS
SPECC1	17	20009344	20319026	0.024610076	PASS
SPECC1L	22	24270817	24417740	-0.575930959	PASS
SPECC1L-.	22	24270898	24442356	-0.575930959	PASS
SPEF1	20	3777504	3781448	-0.168668583	PASS
SPEF2	5	35617844	35814611	0.055007813	PASS
SPEG	2	219434846	219498287	0.025928102	PASS
SPEM1	17	7420360	7421632	0.128406487	PASS
SPEM2	17	7425615	7427568	0.128406487	PASS
SPEN	1	15847864	15940460	0.033763446	PASS
SPERT	13	45702311	45714559	-0.390786075	PASS
SPESP1	15	68818221	68946811	-0.697600509	PASS
SPG11	15	44562696	44663678	-0.396255771	PASS
SPG21	15	64963021	64990310	-0.697600509	PASS
SPG7	16	89490719	89557768	-0.371357732	PASS

SPHK1	17	76376584	76387860	0.088516311	PASS
SPHK2	19	48619291	48630717	0.14996833	PASS
SPHKAP	2	227979950	228181645	0.025928102	PASS
SPI1	11	47354860	47378576	0.117376172	PASS
SPIB	19	50418938	50431313	-0.016761391	PASS
SPIC	12	101475421	101486997	0.202141228	PASS
SPICE1	3	113442718	113515187	0.313454204	suppress_segment_too_large
SPIDR	8	47260575	47736306	-0.201142258	PASS
SPIN1	9	88388419	88478694	0.365190713	suppress_segment_too_large
SPIN2A	23	57134530	57137625	-0.012567603	PASS
SPIN2B	23	57118551	57121546	-0.012567603	PASS
SPIN3	23	56818298	56995827	-0.012567603	PASS
SPIN4	23	63347228	63351344	-0.012567603	PASS
SPINDOC	11	63813388	63827718	0.182439925	suppress_segment_too_large
SPINK1	5	147824568	147831786	-0.293443042	PASS
SPINK13	5	148268180	148286254	-0.293443042	PASS
SPINK14	5	148169733	148175398	-0.293443042	PASS
SPINK2	4	56809860	56821742	-0.011382299	PASS
SPINK4	9	33218365	33248567	-0.310444659	PASS
SPINK5	5	148025683	148137289	-0.293443042	PASS
SPINK6	5	148202794	148215137	-0.293443042	PASS
SPINK7	5	148312419	148315922	-0.293443042	PASS
SPINK8	3	48306842	48328341	-0.234617007	PASS
SPINK9	5	148321203	148339849	-0.293443042	PASS
SPINT1	15	40844018	40858207	-0.396255771	PASS
SPINT2	19	38244035	38292614	0.093487731	suppress_segment_too_large
SPINT3	20	45512461	45515624	-0.168668583	PASS
SPINT4	20	45722351	45725830	-0.168668583	PASS
SPIRE1	18	12446512	12658134	-0.052305056	suppress_segment_too_large
SPIRE2	16	89818179	89871319	-0.371357732	PASS
SPN	16	29662979	29670876	0.069936844	PASS
SPNS1	16	28974221	28984548	0.069936844	PASS
SPNS2	17	4498838	4539035	0.128406487	PASS
SPNS3	17	4433688	4488208	0.128406487	PASS
SPO11	20	57329759	57343994	-0.168668583	PASS
SPOCD1	1	31790422	31816051	0.033763446	PASS
SPOCK1	5	136975298	137598379	-0.293443042	PASS
SPOCK2	10	72059035	72089032	0.072405807	PASS
SPOCK3	4	166733384	167234796	-0.011382299	PASS
SPON1	11	13962689	14267884	-0.405444717	PASS
SPON2	4	1166932	1208962	0.279089364	PASS
SPOP	17	49598884	49678234	0.088516311	PASS
SPOPL	2	138501801	138573547	-0.475215623	PASS
SPOUT1	9	128819651	128829821	0.365190713	suppress_segment_too_large
SPP1	4	87975650	87983426	-0.011382299	PASS
SPP2	2	234050679	234077134	0.025928102	PASS

SPPL2A	15	50702266	50765808	-0.396255771	PASS
SPPL2B	19	2328615	2354806	0.079632875	PASS
SPPL2C	17	45844835	45847072	0.088516311	PASS
SPPL3	12	120762510	120904371	0.202141228	PASS
SPR	2	72887360	72892158	-0.372959126	PASS
SPRED1	15	38252326	38357249	-0.396255771	PASS
SPRED2	2	65310851	65432637	-0.372959126	PASS
SPRED3	19	38388421	38399587	0.093487731	suppress_segment_too_large
SPRN	10	133420666	133424572	0.063874692	PASS
SPRR1A	1	152985231	152985500	0.103015788	PASS
SPRR1B	1	153031202	153032900	0.103015788	PASS
SPRR2A	1	153056113	153057537	0.103015788	PASS
SPRR2B	1	153070224	153070840	0.103015788	PASS
SPRR2D	1	153039725	153041931	0.103015788	PASS
SPRR2E	1	153093135	153106184	0.103015788	PASS
SPRR2F	1	153112114	153113515	0.103015788	PASS
SPRR2G	1	153149582	153150869	0.103015788	PASS
SPRR3	1	153001747	153003856	0.103015788	PASS
SPRR4	1	152970666	152972574	0.103015788	PASS
SPRTN	1	231337104	231355023	-0.256698369	PASS
SPRY1	4	123396795	123403760	-0.011382299	PASS
SPRY2	13	80335976	80340951	-0.390786075	PASS
SPRY3	23	155767812	155782459	-0.012567603	PASS
SPRY4	5	142310427	142326455	-0.293443042	PASS
SPRYD3	12	53064316	53079420	-0.202191512	PASS
SPRYD4	12	56468567	56479707	-0.202191512	PASS
SPRYD7	13	49912706	49936490	-0.390786075	PASS
SPSB1	1	9292880	9369532	0.373964873	suppress_segment_too_large
SPSB2	12	6870935	6889358	-0.086128028	PASS
SPSB3	16	1776712	1793700	0.069936844	PASS
SPSB4	3	141051402	141148611	-0.356957581	PASS
SPTA1	1	158610706	158686715	-0.467855874	PASS
SPTAN1	9	128552558	128633662	0.365190713	suppress_segment_too_large
SPTB	14	64746283	64879907	0.060212819	PASS
SPTBN1	2	54456285	54671445	0.040498426	PASS
SPTBN2	11	66685248	66729226	0.182439925	suppress_segment_too_large
SPTBN4	19	40466241	40576464	0.093487731	suppress_segment_too_large
SPTBN5	15	41848144	41894077	-0.396255771	PASS
SPTLC1	9	92000087	92115384	0.365190713	suppress_segment_too_large
SPTLC2	14	77505997	77616773	-0.192197564	PASS
SPTLC3	20	13008979	13169103	-0.168668583	PASS
SPTSSA	14	34432789	34462356	0.060212819	PASS
SPTSSB	3	161344792	161372880	0.318278996	suppress_segment_too_large
SPTY2D1	11	18606401	18634791	-0.405444717	PASS
SPTY2D1(	11	18588781	18610255	-0.405444717	PASS
SPX	12	21526307	21541249	0.362961408	suppress_segment_too_large

SPZ1	5	80319625	80321842	-0.293443042	PASS
SQLE	8	124998497	125022283	0.279445683	PASS
SQOR	15	45631148	45691294	-0.396255771	PASS
SQSTM1	5	179806398	179838078	-0.150979337	PASS
SRA1	5	140537340	140558252	-0.293443042	PASS
SRARP	1	16004236	16008807	0.033763446	PASS
SRBD1	2	45388680	45612165	0.040498426	PASS
SRC	20	37344685	37406050	-0.168668583	PASS
SRCAP	16	30698209	30741409	0.069936844	PASS
SRCIN1	17	38530016	38605930	0.060555011	PASS
SRD5A1	5	6633343	6674386	0.055007813	PASS
SRD5A2	2	31522480	31581067	0.040498426	PASS
SRD5A3	4	55346109	55373096	-0.011382299	PASS
SREBF1	17	17810399	17837002	0.024610076	PASS
SREBF2	22	41833079	41907308	-0.575930959	PASS
SREK1	5	66139971	66183615	-0.293443042	PASS
SREK1IP1	5	64718144	64768685	-0.293443042	PASS
SRF	6	43171299	43181507	0.048820648	PASS
SRFBP1	5	121961961	122075570	-0.293443042	PASS
SRGAP1	12	63844293	64162221	-0.202191512	PASS
SRGAP2	1	206203345	206464443	-0.256698369	PASS
SRGAP2B	1	144887265	145095528	-0.157385092	PASS
SRGAP2C	1	121184810	121392822	-0.157385092	PASS
SRGAP3	3	8980591	9363053	0.311018244	suppress_segment_too_large
SRGN	10	69088106	69104811	0.072405807	PASS
SRI	7	88205118	88226993	-0.262778904	PASS
SRL	16	4189374	4242080	0.069936844	PASS
SRM	1	11054584	11060024	0.373964873	suppress_segment_too_large
SRMS	20	63540810	63547504	-0.168668583	PASS
SRP14	15	40035739	40039188	-0.396255771	PASS
SRP19	5	112861188	112898371	-0.293443042	PASS
SRP54	14	34981957	35029567	0.060212819	PASS
SRP68	17	76038775	76072653	0.088516311	PASS
SRP72	4	56467336	56503681	-0.011382299	PASS
SRP9	1	225777813	225790466	-0.256698369	PASS
SRPK1	6	35832966	35921342	0.048820648	PASS
SRPK2	7	105110704	105399308	-0.388946609	PASS
SRPK3	23	153776412	153785732	-0.012567603	PASS
SRPRA	11	126262919	126269144	-0.419612865	PASS
SRPRB	3	133784033	133825772	0.313454204	suppress_segment_too_large
SRPX	23	38149336	38220924	-0.012567603	PASS
SRPX2	23	100644166	100675788	-0.012567603	PASS
SRR	17	2303383	2325260	0.128406487	PASS
SRRD	22	26483877	26494658	-0.575930959	PASS
SRRM1	1	24631716	24673267	0.033763446	PASS
SRRM2	16	2752329	2772538	0.069936844	PASS

SRRM3	7	76201900	76287288	-0.262778904	PASS
SRRM4	12	118981495	119163051	0.202141228	PASS
SRRM5	19	43596617	43614497	0.14996833	PASS
SRRT	7	100875111	100888664	-0.262778904	PASS
SRSF1	17	58003360	58007346	0.088516311	PASS
SRSF10	1	23964804	23980927	0.033763446	PASS
SRSF11	1	70205682	70253052	0.033763446	PASS
SRSF12	6	89095959	89118081	-0.368590549	PASS
SRSF2	17	76734115	76737374	0.088516311	PASS
SRSF3	6	36594353	36605600	0.048820648	PASS
SRSF4	1	29147743	29181987	0.033763446	PASS
SRSF5	14	69726900	69772005	0.060212819	PASS
SRSF6	20	43457928	43464247	-0.168668583	PASS
SRSF7	2	38743599	38751494	0.040498426	PASS
SRSF8	11	95067197	95071224	0.062969153	PASS
SRSF9	12	120461668	120469793	0.202141228	PASS
SRXN1	20	646615	653370	-0.168668583	PASS
SS18	18	26016253	26091217	-0.376397843	PASS
SS18L1	20	62143795	62182484	-0.168668583	PASS
SS18L2	3	42581840	42595114	-0.234617007	PASS
SSB	2	169791933	169812064	0.039726562	PASS
SSBP1	7	141738321	141787922	-0.388946609	PASS
SSBP2	5	81413021	81751797	-0.293443042	PASS
SSBP3	1	54225432	54413479	0.033763446	PASS
SSBP4	19	18418864	18434562	0.093487731	suppress_segment_too_large
SSC4D	7	76389334	76409695	-0.262778904	PASS
SSC5D	19	55488404	55519098	0.121336758	PASS
SSH1	12	108778192	108857590	0.202141228	PASS
SSH2	17	29625938	29930276	0.060555011	PASS
SSH3	11	67303448	67312607	0.182439925	suppress_segment_too_large
SSMEM1	7	130206344	130216844	-0.388946609	PASS
SSNA1	9	137188647	137190370	0.365190713	suppress_segment_too_large
SSPN	12	26121991	26299290	0.362961408	suppress_segment_too_large
SSPO	7	149776042	149833979	-0.388946609	PASS
SSR1	6	7268306	7347446	0.048820648	PASS
SSR2	1	156009048	156020959	0.103015788	PASS
SSR3	3	156540140	156555184	0.318278996	suppress_segment_too_large
SSR4	23	153793516	153798505	-0.012567603	PASS
SSRP1	11	57325985	57335877	-0.129266491	PASS
SSSCA1	11	65570430	65573942	0.182439925	suppress_segment_too_large
SST	3	187668906	187670399	0.318278996	suppress_segment_too_large
SSTR1	14	38207999	38213067	0.060212819	PASS
SSTR2	17	73165012	73176633	0.088516311	PASS
SSTR3	22	37204238	37212322	-0.575930959	PASS
SSTR4	20	23035386	23036812	-0.168668583	PASS
SSTR5	16	1078781	1080142	0.069936844	PASS

SSU72	1	1541673	1574869	0.373964873	suppress_segment_too_large
SSUH2	3	8619400	8745040	0.311018244	suppress_segment_too_large
SSX1	23	48255317	48267444	-0.012567603	PASS
SSX2	23	52696896	52707189	-0.012567603	PASS
SSX2B	23	52751132	52790305	-0.012567603	PASS
SSX2IP	1	84643707	84690803	0.033763446	PASS
SSX3	23	48346428	48356707	-0.012567603	PASS
SSX4	23	48383516	48393347	-0.012567603	PASS
SSX4B	23	48402078	48411910	-0.012567603	PASS
SSX5	23	48186220	48196763	-0.012567603	PASS
SSX7	23	52644090	52654900	-0.012567603	PASS
ST13	22	40824535	40857022	-0.575930959	PASS
ST14	11	130159562	130210376	-0.419612865	PASS
ST18	8	52110839	52460959	-0.201142258	PASS
ST20	15	79898840	79923702	-0.697600509	PASS
ST20-MTH	15	79845150	79923754	-0.697600509	PASS
ST3GAL1	8	133454848	133571940	0.113969953	PASS
ST3GAL2	16	70375978	70439237	-0.371357732	PASS
ST3GAL3	1	43705824	43931165	0.033763446	PASS
ST3GAL4	11	126355640	126440344	-0.419612865	PASS
ST3GAL5	2	85837120	85905199	0.066915641	PASS
ST3GAL6	3	98732236	98821201	0.313454204	suppress_segment_too_large
ST5	11	8693351	8910951	-0.405444717	PASS
ST6GAL1	3	186930485	187078553	0.318278996	suppress_segment_too_large
ST6GAL2	2	106801600	106887108	-0.532032081	PASS
ST6GALN	17	76624761	76643838	0.088516311	PASS
ST6GALN	17	76565379	76586956	0.088516311	PASS
ST6GALN	1	76074719	76634601	0.033763446	PASS
ST6GALN	9	127907886	127917038	0.365190713	suppress_segment_too_large
ST6GALN	1	76867441	77065711	0.033763446	PASS
ST6GALN	9	127885321	127905408	0.365190713	suppress_segment_too_large
ST7	7	116953238	117230103	-0.388946609	PASS
ST7L	1	112523518	112620825	0.033763446	PASS
ST8SIA1	12	22063773	22437041	0.362961408	suppress_segment_too_large
ST8SIA2	15	92393828	92468728	-0.697600509	PASS
ST8SIA3	18	57350813	57371731	-0.376397843	PASS
ST8SIA4	5	100806935	100903266	-0.293443042	PASS
ST8SIA5	18	46667821	46759257	-0.376397843	PASS
ST8SIA6	10	17318383	17454330	0.039811807	PASS
STAB1	3	52495338	52524495	-0.234617007	PASS
STAB2	12	103587273	103766727	0.202141228	PASS
STAC	3	36380344	36548007	-0.234617007	PASS
STAC2	17	39210536	39225872	0.060555011	PASS
STAC3	12	57243453	57251193	-0.202191512	PASS
STAG1	3	136336233	136752403	0.313454204	suppress_segment_too_large
STAG2	23	123960212	124422664	-0.012567603	PASS

STAG3	7	100177563	100221488	-0.262778904	PASS
STAM	10	17644125	17715914	0.039811807	PASS
STAM2	2	152116801	152175992	-0.475215623	PASS
STAMBP	2	73828916	73873659	-0.372959126	PASS
STAMBPL	10	88879734	88975153	-1.64589449	suppress_large_homdel
STAP1	4	67558728	67607337	-0.011382299	PASS
STAP2	19	4324043	4342786	0.079632875	PASS
STAR	8	38143649	38151265	-0.201142258	PASS
STARD10	11	72754729	72793681	0.062969153	PASS
STARD13	13	33103135	33350630	-0.390786075	PASS
STARD3	17	39637065	39663484	0.060555011	PASS
STARD3N	7	38178222	38230671	-0.69513118	PASS
STARD4	5	111496033	111512590	-0.293443042	PASS
STARD5	15	81309053	81324183	-0.697600509	PASS
STARD6	18	54324358	54357964	-0.376397843	PASS
STARD7	2	96184859	96208825	0.048238121	PASS
STARD8	23	68647666	68725842	-0.012567603	PASS
STARD9	15	42575659	42720981	-0.396255771	PASS
STAT1	2	190964358	191020960	0.025928102	PASS
STAT2	12	56341597	56360155	-0.202191512	PASS
STAT3	17	42313324	42388568	0.060555011	PASS
STAT4	2	191029576	191151596	0.025928102	PASS
STAT5A	17	42287547	42311943	0.060555011	PASS
STAT5B	17	42199168	42276707	0.060555011	PASS
STAT6	12	57095408	57132139	-0.202191512	PASS
STATH	4	69995930	70002570	-0.011382299	PASS
STAU1	20	49113339	49188367	-0.168668583	PASS
STAU2	8	73420369	73747708	-0.201142258	PASS
STBD1	4	76306026	76311599	-0.011382299	PASS
STC1	8	23841915	23854807	-0.345962679	PASS
STC2	5	173314713	173329503	-0.150979337	PASS
STEAP1	7	90154375	90164829	-0.262778904	PASS
STEAP1B	7	22419444	22727613	-0.69513118	PASS
STEAP2	7	90167590	90238137	-0.262778904	PASS
STEAP3	2	119223831	119265652	-0.475215623	PASS
STEAP4	7	88270892	88306891	-0.262778904	PASS
STH	17	45999250	45999694	0.088516311	PASS
STIL	1	47250139	47314147	0.033763446	PASS
STIM1	11	3854527	4093210	-0.333835828	PASS
STIM2	4	26857678	27025381	-0.458181871	PASS
STIMATE	3	52836219	52897596	-0.234617007	PASS
STIP1	11	64185272	64204543	0.182439925	suppress_segment_too_large
STK10	5	172042073	172188386	-0.150979337	PASS
STK11	19	1177558	1228435	0.079632875	PASS
STK11IP	2	219597860	219616451	0.025928102	PASS
STK16	2	219245455	219250337	0.025928102	PASS

STK17A	7	43582758	43650713	-0.69513118	PASS
STK17B	2	196133566	196176503	0.025928102	PASS
STK19	6	31971091	31982821	0.048820648	PASS
STK24	13	98445185	98577940	-0.390786075	PASS
STK26	23	132023265	132075943	-0.012567603	PASS
STK3	8	98371228	98942827	0.279445683	PASS
STK31	7	23710167	23832513	-0.69513118	PASS
STK32A	5	147234963	147387852	-0.293443042	PASS
STK32B	4	5051442	5500998	0.279089364	PASS
STK32C	10	132207492	132331847	0.063874692	PASS
STK33	11	8391868	8594289	-0.405444717	PASS
STK35	20	2101611	2177038	-0.168668583	PASS
STK36	2	218672026	218702716	0.025928102	PASS
STK38	6	36493892	36547470	0.048820648	PASS
STK38L	12	27243968	27325959	0.362961408	suppress_segment_too_large
STK39	2	167954020	168248141	0.039726562	PASS
STK4	20	44966474	45079959	-0.168668583	PASS
STK40	1	36339624	36385896	0.033763446	PASS
STKLD1	9	133376367	133406096	0.365190713	suppress_segment_too_large
STMN1	1	25884181	25906991	0.033763446	PASS
STMN2	8	79610814	79666175	0.279445683	PASS
STMN3	20	63639705	63657682	-0.168668583	PASS
STMN4	8	27235323	27258420	-0.345962679	PASS
STMND1	6	17102258	17131372	0.048820648	PASS
STMP1	7	135662496	135693418	-0.388946609	PASS
STN1	10	103882542	103918205	-0.367947924	PASS
STOM	9	121338988	121370304	0.365190713	suppress_segment_too_large
STOML1	15	73978923	73994622	-0.697600509	PASS
STOML2	9	35099776	35103195	-0.310444659	PASS
STOML3	13	38965925	38991066	-0.390786075	PASS
STON1	2	48529383	48598513	0.040498426	PASS
STON1-GTF	2	48529925	48776517	0.040498426	PASS
STON2	14	81260656	81436465	-0.192197564	PASS
STOX1	10	68827541	68895432	0.072405807	PASS
STOX2	4	183797692	184023526	-0.462744716	PASS
STPG1	1	24356999	24416934	0.033763446	PASS
STPG2	4	97184093	98143240	-0.011382299	PASS
STPG3	9	137251261	137253483	0.365190713	suppress_segment_too_large
STPG4	2	47045538	47155378	0.040498426	PASS
STRA6	15	74179466	74212267	-0.697600509	PASS
STRA8	7	135231979	135258492	-0.388946609	PASS
STRADA	17	63682336	63741986	0.088516311	PASS
STRADB	2	201387858	201480846	0.025928102	PASS
STRAP	12	15882391	15903478	0.362961408	suppress_segment_too_large
STRBP	9	123109500	123268576	0.365190713	suppress_segment_too_large
STRC	15	43599563	43618800	-0.396255771	PASS

STRIP1	1	110031577	110074641	0.033763446	PASS
STRIP2	7	129434433	129488399	-0.388946609	PASS
STRN	2	36843640	36966472	0.040498426	PASS
STRN3	14	30893799	31026401	0.060212819	PASS
STRN4	19	46719507	46746994	0.14996833	PASS
STS	23	7219456	7354810	-0.012567603	PASS
STT3A	11	125591712	125625215	-0.419612865	PASS
STT3B	3	31532638	31637622	0.311018244	suppress_segment_too_large
STUB1	16	680224	682870	0.069936844	PASS
STUM	1	226548800	226609214	-0.256698369	PASS
STX10	19	13144058	13150383	0.093487731	suppress_segment_too_large
STX11	6	144150526	144188370	-0.035448111	PASS
STX12	1	27773183	27824452	0.033763446	PASS
STX16	20	58651253	58679526	-0.168668583	PASS
STX16-NP	20	58651434	58715410	-0.168668583	PASS
STX17	9	99906633	99970341	0.365190713	suppress_segment_too_large
STX18	4	4415742	4542346	0.279089364	PASS
STX19	3	94014369	94028610	0.313454204	suppress_segment_too_large
STX1A	7	73699206	73719672	-0.262778904	PASS
STX1B	16	30989256	31010661	0.069936844	PASS
STX2	12	130789600	130839266	0.270848837	PASS
STX3	11	59713456	59805882	-0.129266491	PASS
STX4	16	31032889	31042975	0.069936844	PASS
STX5	11	62806897	62832088	0.182439925	suppress_segment_too_large
STX6	1	180972712	181023121	-0.027073548	PASS
STX7	6	132445867	132513198	-0.458570262	PASS
STX8	17	9250471	9576591	-0.139031004	PASS
STXBP1	9	127579370	127696027	0.365190713	suppress_segment_too_large
STXBP2	19	7636881	7647873	0.079632875	PASS
STXBP3	1	108746674	108809526	0.033763446	PASS
STXBP4	17	54968727	55173632	0.088516311	PASS
STXBP5	6	147204425	147390476	-0.035448111	PASS
STXBP5L	3	120908072	121424761	0.313454204	suppress_segment_too_large
STXBP6	14	24809656	25050297	0.060212819	PASS
STYK1	12	10618939	10674318	0.362961408	suppress_segment_too_large
STYX	14	52730180	52774998	0.060212819	PASS
STYXL1	7	75996338	76048004	-0.262778904	PASS
SUB1	5	32531633	32604079	0.055007813	PASS
SUCLA2	13	47745736	48037968	-0.390786075	PASS
SUCLG1	2	84423523	84460045	0.066915641	PASS
SUCLG2	3	67360460	67654614	-0.234617007	PASS
SUCNR1	3	151873643	151884619	0.318278996	suppress_segment_too_large
SUCO	1	172532349	172611833	-0.027073548	PASS
SUDS3	12	118376380	118418031	0.202141228	PASS
SUFU	10	102503987	102633535	-0.367947924	PASS
SUGCT	7	40134977	40860763	-0.69513118	PASS

SUGP1	19	19276018	19320844	0.093487731	suppress_segment_too_large
SUGP2	19	18990888	19034023	0.093487731	suppress_segment_too_large
SUGT1	13	52652709	52700909	-0.390786075	PASS
SULF1	8	69466624	69660915	-0.201142258	PASS
SULF2	20	47656348	47786616	-0.168668583	PASS
SULT1A1	16	28605196	28623625	0.069936844	PASS
SULT1A2	16	28591943	28597109	0.069936844	PASS
SULT1A4	16	29459889	29464976	0.069936844	PASS
SULT1B1	4	69721162	69787961	-0.011382299	PASS
SULT1C2	2	108288639	108309915	-0.010901494	PASS
SULT1C3	2	108247195	108265351	-0.010901494	PASS
SULT1C4	2	108377911	108388057	-0.010901494	PASS
SULT1E1	4	69841212	69860152	-0.011382299	PASS
SULT2A1	19	47870466	47886397	0.14996833	PASS
SULT2B1	19	48552075	48599425	0.14996833	PASS
SULT4A1	22	43824509	43862503	-0.808211634	PASS
SULT6B1	2	37167820	37196598	0.040498426	PASS
SUMF1	3	3700814	4467281	0.311018244	suppress_segment_too_large
SUMF2	7	56064002	56080670	-0.750061359	PASS
SUMO1	2	202206180	202238608	0.025928102	PASS
SUMO2	17	75165586	75182983	0.088516311	PASS
SUMO3	21	44805617	44818779	-0.064425456	suppress_segment_too_large
SUMO4	6	149400227	149401292	-0.035448111	PASS
SUN1	7	816615	896435	-0.69513118	PASS
SUN2	22	38734725	38794143	-0.575930959	PASS
SUN3	7	47987148	48029119	-0.69513118	PASS
SUN5	20	32983773	33004433	-0.168668583	PASS
SUOX	12	55997180	56006641	-0.202191512	PASS
SUPT16H	14	21351472	21384266	0.060212819	PASS
SUPT20H	13	37009312	37059713	-0.390786075	PASS
SUPT3H	6	44809317	45377953	0.048820648	PASS
SUPT4H1	17	58345175	58353093	0.088516311	PASS
SUPT5H	19	39436156	39476670	0.093487731	suppress_segment_too_large
SUPT6H	17	28662091	28702684	0.060555011	PASS
SUPT7L	2	27650812	27663840	0.040498426	PASS
SUPV3L1	10	69180232	69209099	0.072405807	PASS
SURF1	9	133351755	133356676	0.365190713	suppress_segment_too_large
SURF2	9	133356552	133361169	0.365190713	suppress_segment_too_large
SURF4	9	133361449	133376166	0.365190713	suppress_segment_too_large
SURF6	9	133328774	133336398	0.365190713	suppress_segment_too_large
SUSD1	9	112040785	112175408	0.365190713	suppress_segment_too_large
SUSD2	22	24181259	24189110	-0.575930959	PASS
SUSD3	9	93058688	93085138	0.365190713	suppress_segment_too_large
SUSD4	1	223220819	223364202	-0.256698369	PASS
SUSD5	3	33150042	33219215	0.311018244	suppress_segment_too_large
SUSD6	14	69611596	69715142	0.060212819	PASS

SUV39H1	23	48695554	48709012	-0.012567603	PASS
SUV39H2	10	14878820	14904315	0.039811807	PASS
SUZ12	17	31937018	32001045	0.060555011	PASS
SV2A	1	149903318	149917882	0.103015788	PASS
SV2B	15	91099950	91301309	-0.697600509	PASS
SV2C	5	76083172	76353939	-0.293443042	PASS
SVBP	1	42807052	42817252	0.033763446	PASS
SVEP1	9	110365251	110579880	0.365190713	suppress_segment_too_large
SVIL	10	29457338	29736781	0.039811807	PASS
SVIP	11	22813799	22830299	-0.405444717	PASS
SVOP	12	108907741	109021240	0.202141228	PASS
SVOPL	7	138594285	138701352	-0.388946609	PASS
SWAP70	11	9664077	9752991	-0.405444717	PASS
SWI5	9	128275379	128288990	0.365190713	suppress_segment_too_large
SWSAP1	19	11374685	11376951	0.093487731	suppress_segment_too_large
SWT1	1	185157080	185291765	-0.027073548	PASS
SYAP1	23	16719632	16765336	-0.012567603	PASS
SYBU	8	109573978	109691791	0.279445683	PASS
SYCE1	10	133553901	133569835	0.063874692	PASS
SYCE1L	16	77199397	77213215	-0.371357732	PASS
SYCE2	19	12898786	12919276	0.093487731	suppress_segment_too_large
SYCE3	22	50551112	50562905	-0.808211634	PASS
SYCN	19	39202831	39204266	0.093487731	suppress_segment_too_large
SYCP1	1	114854803	114995370	0.033763446	PASS
SYCP2	20	59863563	59933655	-0.168668583	PASS
SYCP2L	6	10886831	10979320	0.048820648	PASS
SYCP3	12	101728648	101739472	0.202141228	PASS
SYDE1	19	15107403	15114988	0.093487731	suppress_segment_too_large
SYDE2	1	85156873	85201046	0.033763446	PASS
SYF2	1	25222679	25232502	0.033763446	PASS
SYK	9	90801787	90898549	0.365190713	suppress_segment_too_large
SYMPK	19	45815410	45863290	0.14996833	PASS
SYN1	23	47571898	47619943	-0.012567603	PASS
SYN2	3	12004402	12191400	0.311018244	suppress_segment_too_large
SYN3	22	32512552	33058372	-0.575930959	PASS
SYNC	1	32680360	32703596	0.033763446	PASS
SYNCRIP	6	85607785	85643792	-0.368590549	PASS
SYNDIG1	20	24469199	24666616	-0.168668583	PASS
SYNDIG1I	14	74405893	74426102	-0.192197564	PASS
SYNE1	6	152121684	152637801	-0.035448111	PASS
SYNE2	14	63852983	64226433	0.060212819	PASS
SYNE3	14	95407266	95475836	-0.192197564	PASS
SYNE4	19	36003299	36008793	0.093487731	suppress_segment_too_large
SYNGAP1	6	33419661	33457541	0.048820648	PASS
SYNGR1	22	39349925	39385588	-0.575930959	PASS
SYNGR2	17	78168558	78173527	0.088516311	PASS

SYNGR3	16	1989660	1994275	0.069936844	PASS
SYNGR4	19	48364395	48376376	0.14996833	PASS
SYNJ1	21	32628759	32728048	0.12860881	suppress_segment_too_large
SYNJ2	6	157981887	158099176	-0.035448111	PASS
SYNJ2BP	14	70366496	70417061	0.060212819	PASS
SYNJ2BP-(	14	70326064	70417074	0.060212819	PASS
SYNM	15	99098217	99135593	-0.697600509	PASS
SYNPO	5	150601080	150659220	-0.293443042	PASS
SYNPO2	4	118850688	119061247	-0.011382299	PASS
SYNPO2L	10	73644881	73663803	0.072405807	PASS
SYNPR	3	63228315	63616921	-0.234617007	PASS
SYNRG	17	37514797	37609496	0.060555011	PASS
SYP	23	49187804	49200259	-0.012567603	PASS
SYPL1	7	106090503	106112576	-0.388946609	PASS
SYPL2	1	109466628	109482137	0.033763446	PASS
SYS1	20	45361937	45376798	-0.168668583	PASS
SYS1-DBN	20	45363200	45410610	-0.168668583	PASS
SYT1	12	78863993	79452008	0.202141228	PASS
SYT10	12	33374238	33439819	0.362961408	suppress_segment_too_large
SYT11	1	155859509	155885199	0.103015788	PASS
SYT12	11	67006778	67050863	0.182439925	suppress_segment_too_large
SYT13	11	45240301	45286319	0.117376172	PASS
SYT14	1	209938174	210171389	-0.256698369	PASS
SYT15	10	46578217	46594173	-0.404852538	PASS
SYT16	14	61811974	62112550	0.060212819	PASS
SYT17	16	19167971	19268334	0.069936844	PASS
SYT2	1	202590596	202710417	-0.256698369	PASS
SYT3	19	50621307	50639827	-0.016761391	PASS
SYT4	18	43267878	43277650	-0.376397843	PASS
SYT5	19	55171199	55180441	0.121336758	PASS
SYT6	1	114089291	114153919	0.033763446	PASS
SYT7	11	61515313	61581148	0.182439925	suppress_segment_too_large
SYT8	11	1828307	1837521	-0.333835828	PASS
SYT9	11	7238778	7469042	-0.405444717	PASS
SYTL1	1	27342020	27353937	0.033763446	PASS
SYTL2	11	85694224	85811159	0.062969153	PASS
SYTL3	6	158650014	158764876	-0.035448111	PASS
SYTL4	23	100674491	100732123	-0.012567603	PASS
SYTL5	23	38006582	38128819	-0.012567603	PASS
SYVN1	11	65121780	65134533	0.182439925	suppress_segment_too_large
SZRD1	1	16352575	16398145	0.033763446	PASS
SZT2	1	43389882	43454247	0.033763446	PASS
TAAR1	6	132644984	132646003	-0.458570262	PASS
TAAR2	6	132617022	132624275	-0.458570262	PASS
TAAR5	6	132588673	132589686	-0.458570262	PASS
TAAR6	6	132570322	132571359	-0.458570262	PASS

TAAR8	6	132552693	132553721	-0.458570262	PASS
TAAR9	6	132538290	132539336	-0.458570262	PASS
TAB1	22	39399741	39437060	-0.575930959	PASS
TAB2	6	149218641	149411613	-0.035448111	PASS
TAB3	23	30827442	30975084	-0.012567603	PASS
TAC1	7	97731908	97740472	-0.262778904	PASS
TAC3	12	57010000	57028883	-0.202191512	PASS
TAC4	17	49838309	49848017	0.088516311	PASS
TACC1	8	38728186	38853028	-0.201142258	PASS
TACC2	10	121989174	122254545	0.063874692	PASS
TACC3	4	1721490	1745176	0.279089364	PASS
TACO1	17	63600872	63608365	0.088516311	PASS
TACR1	2	75046463	75199700	-0.372959126	PASS
TACR2	10	69403903	69416867	0.072405807	PASS
TACR3	4	103586031	103719816	-0.011382299	PASS
TACSTD2	1	58575423	58577773	0.033763446	PASS
TADA1	1	166856510	166876327	-0.027073548	PASS
TADA2A	17	37406874	37479730	0.060555011	PASS
TADA2B	4	7041899	7057952	0.279089364	PASS
TADA3	3	9779860	9793011	0.311018244	suppress_segment_too_large
TAF1	23	71366239	71532374	-0.012567603	PASS
TAF10	11	6606296	6612667	-0.405444717	PASS
TAF11	6	34877462	34888089	0.048820648	PASS
TAF12	1	28589323	28643085	0.033763446	PASS
TAF13	1	109062486	109076002	0.033763446	PASS
TAF15	17	35713791	35864615	0.060555011	PASS
TAF1A	1	222557902	222589933	-0.256698369	PASS
TAF1B	2	9843354	9934416	0.040498426	PASS
TAF1C	16	84177847	84187070	-0.371357732	PASS
TAF1D	11	93729948	93784391	0.062969153	PASS
TAF1L	9	32629454	32635669	-0.310444659	PASS
TAF2	8	119730775	119832863	0.279445683	PASS
TAF3	10	7818504	8016627	0.039811807	PASS
TAF4	20	61953469	62065810	-0.168668583	PASS
TAF4B	18	26225936	26391685	-0.376397843	PASS
TAF5	10	103367967	103389065	-0.367947924	PASS
TAF5L	1	229593111	229626047	-0.256698369	PASS
TAF6	7	100107070	100119841	-0.262778904	PASS
TAF6L	11	62771303	62787342	0.182439925	suppress_segment_too_large
TAF7	5	141260225	141320821	-0.293443042	PASS
TAF7L	23	101268253	101293057	-0.012567603	PASS
TAF8	6	42050513	42087461	0.048820648	PASS
TAF9	5	69364743	69370013	-0.293443042	PASS
TAF9B	23	78129748	78139706	-0.012567603	PASS
TAGAP	6	159034468	159045152	-0.035448111	PASS
TAGLN	11	117199321	117204782	-0.356188624	PASS

TAGLN2	1	159918107	159925732	-0.027073548	PASS
TAGLN3	3	111998664	112013887	0.313454204	suppress_segment_too_large
TAL1	1	47216290	47232220	0.033763446	PASS
TAL2	9	105662457	105663112	0.365190713	suppress_segment_too_large
TALDO1	11	747329	765024	-0.333835828	PASS
TAMM41	3	11790442	11846919	0.311018244	suppress_segment_too_large
TANC1	2	158968671	159232659	0.039726562	PASS
TANC2	17	63009556	63427699	0.088516311	PASS
TANGO2	22	20017014	20065926	-0.575930959	PASS
TANGO6	16	68843604	69085180	-0.371357732	PASS
TANK	2	161136908	161236221	0.039726562	PASS
TAOK1	17	29390464	29551904	0.060555011	PASS
TAOK2	16	29973641	29992261	0.069936844	PASS
TAOK3	12	118149801	118372945	0.202141228	PASS
TAP1	6	32845209	32853978	0.048820648	PASS
TAP2	6	32821833	32838780	0.048820648	PASS
TAPBP	6	33299694	33314387	0.048820648	PASS
TAPBPL	12	6451690	6466517	-0.086128028	PASS
TAPT1	4	16160505	16227410	0.279089364	PASS
TARBP1	1	234391313	234479103	-0.256698369	PASS
TARBP2	12	53500921	53506431	-0.202191512	PASS
TARDBP	1	11012344	11026420	0.373964873	suppress_segment_too_large
TARM1	19	54069895	54081365	0.206912349	PASS
TARS	5	33440696	33469539	0.055007813	PASS
TARS2	1	150487364	150507609	0.103015788	PASS
TARSL2	15	101653598	101724604	-0.697600509	PASS
TAS1R1	1	6555181	6579757	0.373964873	suppress_segment_too_large
TAS1R2	1	18839599	18859682	0.033763446	PASS
TAS1R3	1	1331314	1335306	0.373964873	suppress_segment_too_large
TAS2R1	5	9628997	9712378	0.055007813	PASS
TAS2R10	12	10825317	10826358	0.362961408	suppress_segment_too_large
TAS2R13	12	10907926	10909562	0.362961408	suppress_segment_too_large
TAS2R14	12	10937406	11171573	0.362961408	suppress_segment_too_large
TAS2R16	7	122994704	122995700	-0.388946609	PASS
TAS2R19	12	11021619	11022620	0.362961408	suppress_segment_too_large
TAS2R20	12	10996495	10997875	0.362961408	suppress_segment_too_large
TAS2R3	7	141764097	141765197	-0.388946609	PASS
TAS2R30	12	11132958	11134644	0.362961408	suppress_segment_too_large
TAS2R31	12	11030387	11031407	0.362961408	suppress_segment_too_large
TAS2R38	7	141972631	141973773	-0.388946609	PASS
TAS2R39	7	143183419	143184435	-0.388946609	PASS
TAS2R4	7	141778442	141780819	-0.388946609	PASS
TAS2R40	7	143222037	143223079	-0.388946609	PASS
TAS2R41	7	143477873	143478796	-0.388946609	PASS
TAS2R42	12	11185993	11186937	0.362961408	suppress_segment_too_large
TAS2R46	12	11061365	11062294	0.362961408	suppress_segment_too_large

TAS2R5	7	141790217	141791367	-0.388946609	PASS
TAS2R50	12	10985913	10986912	0.362961408	suppress_segment_too_large
TAS2R60	7	143443453	143444409	-0.388946609	PASS
TAS2R7	12	10801532	10802627	0.362961408	suppress_segment_too_large
TAS2R8	12	10806051	10807293	0.362961408	suppress_segment_too_large
TAS2R9	12	10809094	10810168	0.362961408	suppress_segment_too_large
TASP1	20	13389392	13638940	-0.168668583	PASS
TAT	16	71565660	71577130	-0.371357732	PASS
TATDN1	8	124488485	124539458	0.279445683	PASS
TATDN2	3	10248023	10281218	0.311018244	suppress_segment_too_large
TATDN3	1	212791828	212816626	-0.256698369	PASS
TAX1BP1	7	27739331	27844564	-0.69513118	PASS
TAX1BP3	17	3662896	3668682	0.128406487	PASS
TAZ	23	154411518	154421726	-0.012567603	PASS
TBATA	10	70771239	70785401	0.072405807	PASS
TBC1D1	4	37891087	38139175	-0.011382299	PASS
TBC1D10A	22	30291990	30327046	-0.575930959	PASS
TBC1D10B	16	30357102	30370264	0.069936844	PASS
TBC1D10C	11	67403915	67410089	0.182439925	suppress_segment_too_large
TBC1D12	10	94402504	94535930	-0.39678585	PASS
TBC1D13	9	128787204	128810432	0.365190713	suppress_segment_too_large
TBC1D14	4	6909242	7033118	0.279089364	PASS
TBC1D15	12	71839707	71927248	-0.202191512	PASS
TBC1D16	17	79932343	80035848	0.088516311	PASS
TBC1D17	19	49877425	49888749	0.14996833	PASS
TBC1D19	4	26576437	26755351	-0.458181871	PASS
TBC1D2	9	98198999	98255721	0.365190713	suppress_segment_too_large
TBC1D20	20	435480	462553	-0.168668583	PASS
TBC1D21	15	73873608	73889214	-0.697600509	PASS
TBC1D22A	22	46762617	47175699	-0.808211634	PASS
TBC1D22B	6	37257772	37332970	0.048820648	PASS
TBC1D23	3	100261000	100325251	0.313454204	suppress_segment_too_large
TBC1D24	16	2475051	2509560	0.069936844	PASS
TBC1D25	23	48539457	48562609	-0.012567603	PASS
TBC1D26	17	15732247	15749192	-0.139031004	PASS
TBC1D28	17	18635006	18661950	0.024610076	PASS
TBC1D29	17	30553502	30563493	0.060555011	PASS
TBC1D2B	15	77984036	78077724	-0.697600509	PASS
TBC1D30	12	64780516	64881032	-0.202191512	PASS
TBC1D31	8	123041968	123152153	0.279445683	PASS
TBC1D32	6	121079494	121334745	-0.368590549	PASS
TBC1D3B	17	36165681	36176636	0.060555011	PASS
TBC1D3E	17	38127951	38138862	0.060555011	PASS
TBC1D3F	17	36428618	36439566	0.060555011	PASS
TBC1D3G	17	36323884	36334759	0.060555011	PASS
TBC1D3I	17	36253456	36264553	0.060555011	PASS

TBC1D3K	17	37924415	37935365	0.060555011	PASS
TBC1D3L	17	37977972	37989048	0.060555011	PASS
TBC1D4	13	75283503	75482114	-0.390786075	PASS
TBC1D5	3	17157162	18444817	0.311018244	suppress_segment_too_large
TBC1D7	6	13266542	13328583	0.048820648	PASS
TBC1D8	2	101007617	101252866	0.048238121	PASS
TBC1D8B	23	106802680	106876145	-0.012567603	PASS
TBC1D9	4	140620765	140756120	-0.011382299	PASS
TBC1D9B	5	179862066	179907859	-0.150979337	PASS
TBCA	5	77691166	77868780	-0.293443042	PASS
TBCB	19	36114289	36125947	0.093487731	suppress_segment_too_large
TBCC	6	42744481	42746096	0.048820648	PASS
TBCCD1	3	186546073	186570543	0.318278996	suppress_segment_too_large
TBCD	17	82752064	82945922	0.088516311	PASS
TBCE	1	235328570	235452443	-0.256698369	PASS
TBCEL	11	121024072	121090775	-0.356188624	PASS
TBCK	4	106041599	106321495	-0.011382299	PASS
TBK1	12	64451880	64502108	-0.202191512	PASS
TBKBP1	17	47694081	47712050	0.088516311	PASS
TBL1X	23	9463295	9741037	-0.012567603	PASS
TBL1XR1	3	177019340	177228000	0.318278996	suppress_segment_too_large
TBL2	7	73567533	73578791	-0.262778904	PASS
TBL3	16	1972037	1982933	0.069936844	PASS
TBP	6	170554302	170572870	-0.035448111	PASS
TBPL1	6	133952170	133990432	-0.035448111	PASS
TBPL2	14	55413541	55456726	0.060212819	PASS
TBR1	2	161416094	161425870	0.039726562	PASS
TBRG1	11	124622836	124635398	-0.419612865	PASS
TBRG4	7	45100100	45112047	-0.69513118	PASS
TBX1	22	19756703	19783593	-0.575930959	PASS
TBX10	11	67631303	67639560	0.182439925	suppress_segment_too_large
TBX15	1	118883046	118989556	-0.157385092	PASS
TBX18	6	84687351	84764519	-0.368590549	PASS
TBX19	1	168281040	168314426	-0.027073548	PASS
TBX2	17	61399896	61409466	0.088516311	PASS
TBX20	7	35202430	35254147	-0.69513118	PASS
TBX21	17	47733244	47746119	0.088516311	PASS
TBX22	23	80014756	80031769	-0.012567603	PASS
TBX3	12	114670254	114684164	0.202141228	PASS
TBX4	17	61452404	61485110	0.088516311	PASS
TBX5	12	114353931	114408442	0.202141228	PASS
TBX6	16	30085793	30091887	0.069936844	PASS
TBXA2R	19	3594506	3606840	0.079632875	PASS
TBXAS1	7	139777051	140020325	-0.388946609	PASS
TBXT	6	166157656	166168700	-0.035448111	PASS
TC2N	14	91779751	91867536	-0.192197564	PASS

TCAF1	7	143851375	143902198	-0.388946609	PASS
TCAF2	7	143620952	143730409	-0.388946609	PASS
TCAIM	3	44338119	44409451	-0.234617007	PASS
TCAP	17	39664187	39666555	0.060555011	PASS
TCEA1	8	53966552	54022529	-0.201142258	PASS
TCEA2	20	64049836	64072347	-0.168668583	PASS
TCEA3	1	23381061	23424740	0.033763446	PASS
TCEAL1	23	103628704	103630953	-0.012567603	PASS
TCEAL2	23	102125688	102127711	-0.012567603	PASS
TCEAL3	23	103607451	103629690	-0.012567603	PASS
TCEAL4	23	103576231	103587736	-0.012567603	PASS
TCEAL5	23	103273691	103276872	-0.012567603	PASS
TCEAL6	23	102140476	102142970	-0.012567603	PASS
TCEAL7	23	103330196	103332326	-0.012567603	PASS
TCEAL8	23	103252995	103255203	-0.012567603	PASS
TCEAL9	23	103356489	103358462	-0.012567603	PASS
TCEANC	23	13653189	13681964	-0.012567603	PASS
TCEANC2	1	54053584	54112519	0.033763446	PASS
TCERG1	5	146447311	146511961	-0.293443042	PASS
TCERG1L	10	131092391	131311721	0.063874692	PASS
TCF12	15	56918623	57299281	-0.697600509	PASS
TCF15	20	603797	610398	-0.168668583	PASS
TCF19	6	31158542	31167159	0.048820648	PASS
TCF20	22	42160013	42343616	-0.575930959	PASS
TCF21	6	133889138	133895553	-0.035448111	PASS
TCF23	2	27149004	27156974	0.040498426	PASS
TCF24	8	66946501	66962590	-0.201142258	PASS
TCF25	16	89873570	89913627	-0.371357732	PASS
TCF3	19	1609290	1652605	0.079632875	PASS
TCF4	18	55222331	55664787	-0.376397843	PASS
TCF7	5	134114711	134151865	-0.293443042	PASS
TCF7L1	2	85133410	85310388	0.066915641	PASS
TCF7L2	10	112950250	113167678	0.063874692	PASS
TCFL5	20	62841115	62861763	-0.168668583	PASS
TCHH	1	152106317	152115454	0.103015788	PASS
TCHHL1	1	152084144	152089064	0.103015788	PASS
TCHP	12	109900264	109983841	0.202141228	PASS
TCIM	8	40153455	40155308	-0.201142258	PASS
TCIRG1	11	68039016	68050895	0.182439925	suppress_segment_too_large
TCL1A	14	95709967	95714196	-0.192197564	PASS
TCL1B	14	95686417	95692643	-0.192197564	PASS
TCN1	11	59852800	59866575	-0.129266491	PASS
TCN2	22	30606838	30627278	-0.575930959	PASS
TCOF1	5	150357629	150400308	-0.293443042	PASS
TCP1	6	159778498	159789749	-0.035448111	PASS
TCP10	6	167357031	167384510	-0.035448111	PASS

TCP10L	21	32574841	32587373	0.12860881	suppress_segment_too_large
TCP10L2	6	167146414	167196913	-0.035448111	PASS
TCP11	6	35118071	35148610	0.048820648	PASS
TCP11L1	11	33039417	33105943	-0.405444717	PASS
TCP11L2	12	106301929	106347015	0.202141228	PASS
TCP11X2	23	102456862	102471842	-0.012567603	PASS
TCTA	3	49412206	49416475	-0.234617007	PASS
TCTE1	6	44278743	44297688	0.048820648	PASS
TCTE3	6	169740114	169751587	-0.035448111	PASS
TCTEX1D	1	66752459	66778787	0.033763446	PASS
TCTEX1D2	3	196291219	196318299	0.326834516	PASS
TCTEX1D4	1	44805913	44806675	0.033763446	PASS
TCTN1	12	110614027	110649430	0.202141228	PASS
TCTN2	12	123671113	123708403	0.202141228	PASS
TCTN3	10	95663396	95694143	-0.39678585	PASS
TDG	12	103965804	103988874	0.202141228	PASS
TDGF1	3	46574534	46582463	-0.234617007	PASS
TDO2	4	155854738	155920406	-0.011382299	PASS
TDP1	14	89954939	90044768	-0.192197564	PASS
TDP2	6	24649977	24667033	0.048820648	PASS
TDRD1	10	114179270	114232304	0.063874692	PASS
TDRD10	1	154502219	154548147	0.103015788	PASS
TDRD12	19	32719753	32829580	0.093487731	suppress_segment_too_large
TDRD15	2	21123917	21143272	0.040498426	PASS
TDRD3	13	60396457	60573878	-0.390786075	PASS
TDRD5	1	179591613	179691272	-0.027073548	PASS
TDRD6	6	46687875	46704319	0.048820648	PASS
TDRD7	9	97411950	97496125	0.365190713	suppress_segment_too_large
TDRD9	14	103928462	104052667	-0.192197564	PASS
TDRKH	1	151770107	151791416	0.103015788	PASS
TDRP	8	489792	545781	-0.313874214	PASS
TEAD1	11	12674591	12944483	-0.405444717	PASS
TEAD2	19	49340595	49362457	0.14996833	PASS
TEAD3	6	35473597	35497076	0.048820648	PASS
TEAD4	12	2959330	3040673	-0.086128028	PASS
TEC	4	48135783	48269864	-0.011382299	PASS
TECPR1	7	98214624	98252251	-0.262778904	PASS
TECPR2	14	102362963	102502481	-0.192197564	PASS
TECR	19	14517085	14565980	0.093487731	suppress_segment_too_large
TECRL	4	64275257	64409468	-0.011382299	PASS
TECTA	11	121101173	121191493	-0.356188624	PASS
TECTB	10	112283400	112305035	0.063874692	PASS
TEDC1	14	105489855	105499575	-0.192197564	PASS
TEDC2	16	2460080	2464963	0.069936844	PASS
TEDDM1	1	182398117	182400616	-0.027073548	PASS
TEF	22	41367333	41399326	-0.575930959	PASS

TEFM	17	30897336	30906820	0.060555011	PASS
TEK	9	27109141	27230175	-0.310444659	PASS
TEKT1	17	6789133	6831761	0.128406487	PASS
TEKT2	1	36084075	36088275	0.033763446	PASS
TEKT3	17	15303811	15341641	-0.139031004	PASS
TEKT4	2	94871433	94876829	-0.340781246	PASS
TEKT5	16	10627501	10694945	0.069936844	PASS
TELO2	16	1493344	1510457	0.069936844	PASS
TEN1	17	75979220	76000586	0.088516311	PASS
TEN1-CDK	17	75979231	76005999	0.088516311	PASS
TENM1	23	124375903	124963817	-0.012567603	PASS
TENM2	5	167284799	168264157	-0.150979337	PASS
TENM3	4	182143987	182803024	-0.462744716	PASS
TENM4	11	78652831	79440948	0.062969153	PASS
TENT2	5	79612120	79686648	-0.293443042	PASS
TENT4A	5	6713007	6757048	0.055007813	PASS
TENT4B	16	50152918	50235310	0.069936844	PASS
TENT5A	6	81491439	81752774	-0.368590549	PASS
TENT5B	1	27005020	27012836	0.033763446	PASS
TENT5C	1	117605934	117628372	0.033763446	PASS
TENT5D	23	80335504	80445311	-0.012567603	PASS
TEP1	14	20365667	20413429	0.060212819	PASS
TEPP	16	57976435	57988116	-0.371357732	PASS
TEPSIN	17	81228277	81239091	0.088516311	PASS
TERB1	16	66754976	66801620	-0.371357732	PASS
TERB2	15	44956702	44979229	-0.396255771	PASS
TERF1	8	73008864	73048122	-0.201142258	PASS
TERF2	16	69355561	69408571	-0.371357732	PASS
TERF2IP	16	75647786	75761872	-0.371357732	PASS
TERT	5	1253147	1295069	0.055007813	PASS
TES	7	116210493	116258783	-0.388946609	PASS
TESC	12	117038923	117099479	0.202141228	PASS
TESK1	9	35605305	35610041	-0.310444659	PASS
TESK2	1	45343883	45491166	0.033763446	PASS
TESMIN	11	68707440	68751564	0.182439925	suppress_segment_too_large
TESPA1	12	54948018	54984746	-0.202191512	PASS
TET1	10	68560656	68694482	0.072405807	PASS
TET2	4	105145875	105279816	-0.011382299	PASS
TET3	2	73986404	74108176	-0.372959126	PASS
TEX10	9	100302077	100352939	0.365190713	suppress_segment_too_large
TEX101	19	43401496	43418597	-0.459876623	PASS
TEX11	23	70528940	70908731	-0.012567603	PASS
TEX12	11	112167372	112172559	-0.356188624	PASS
TEX13A	23	105218929	105220674	-0.012567603	PASS
TEX13B	23	107980864	107982370	-0.012567603	PASS
TEX13C	23	125320120	125325214	-0.012567603	PASS

TEX13D	23	124246249	124336862	-0.012567603	PASS
TEX14	17	58556678	58692055	0.088516311	PASS
TEX15	8	30831544	30913003	-0.345962679	PASS
TEX19	17	82359247	82363776	0.088516311	PASS
TEX2	17	64147227	64263301	0.088516311	PASS
TEX22	14	105398579	105450106	-0.192197564	PASS
TEX26	13	30932703	30975502	-0.390786075	PASS
TEX261	2	70985938	70994945	-0.372959126	PASS
TEX264	3	51662693	51704323	-0.234617007	PASS
TEX29	13	111316184	111344249	-0.390786075	PASS
TEX30	13	102765990	102773811	-0.390786075	PASS
TEX33	22	36991120	37007841	-0.575930959	PASS
TEX35	1	178513077	178548602	-0.027073548	PASS
TEX36	10	125576522	125683144	0.063874692	PASS
TEX37	2	88524651	88529584	-0.340781246	PASS
TEX38	1	46668855	46673594	0.033763446	PASS
TEX43	5	126631722	126636287	-0.293443042	PASS
TEX44	2	231592901	231594283	0.025928102	PASS
TEX45	19	7492976	7508450	0.079632875	PASS
TEX46	1	23010834	23015850	0.033763446	PASS
TEX47	7	88794106	88795721	-0.262778904	PASS
TEX48	9	114666434	114682066	0.365190713	suppress_segment_too_large
TEX49	12	48727435	48765786	-0.202191512	PASS
TEX50	1	173635333	173637134	-0.027073548	PASS
TEX51	2	126898864	126902097	-0.475215623	PASS
TEX9	15	56244009	56445997	-0.697600509	PASS
TF	3	133745956	133796640	0.313454204	suppress_segment_too_large
TFAM	10	58385022	58399221	0.072405807	PASS
TFAP2A	6	10393186	10419659	0.048820648	PASS
TFAP2B	6	50818723	50847613	0.048820648	PASS
TFAP2C	20	56629302	56639283	-0.168668583	PASS
TFAP2D	6	50713828	50772988	0.048820648	PASS
TFAP2E	1	35573370	35595328	0.033763446	PASS
TFAP4	16	4257186	4273075	0.069936844	PASS
TFB1M	6	155257509	155314493	-0.035448111	PASS
TFB2M	1	246540560	246566324	-0.368111568	PASS
TFCP2	12	51093663	51173134	-0.202191512	PASS
TFCP2L1	2	121216587	121285207	-0.475215623	PASS
TFDP1	13	113584721	113641470	-0.390786075	PASS
TFDP2	3	141944428	142149544	-0.356957581	PASS
TFDP3	23	133216669	133218348	-0.012567603	PASS
TFE3	23	49028726	49043486	-0.012567603	PASS
TFEB	6	41683978	41736259	0.048820648	PASS
TFEC	7	115935148	116159896	-0.388946609	PASS
TFF1	21	42362282	42366594	-0.064425456	suppress_segment_too_large
TFF2	21	42346357	42351128	-0.064425456	suppress_segment_too_large

TFF3	21	42311667	42315651	-0.064425456	suppress_segment_too_large
TFG	3	100709331	100748966	0.313454204	suppress_segment_too_large
TFIP11	22	26491225	26512505	-0.575930959	PASS
TFPI	2	187464230	187565760	0.025928102	PASS
TFPI2	7	93885396	93890991	-0.262778904	PASS
TFPT	19	54107013	54115675	0.206912349	PASS
TFR2	7	100620416	100642779	-0.262778904	PASS
TFRC	3	196027183	196082189	0.326834516	PASS
TG	8	132866958	133134903	0.113969953	PASS
TGDS	13	94574051	94596257	-0.390786075	PASS
TGFA	2	70447280	70554193	-0.372959126	PASS
TGFB1	19	41301587	41353911	0.093487731	suppress_segment_too_large
TGFB1I1	16	31471585	31477960	0.069936844	PASS
TGFB2	1	218346235	218444619	-0.256698369	PASS
TGFB3	14	75958099	75982991	-0.192197564	PASS
TGFBI	5	136028895	136063818	-0.293443042	PASS
TGFBR1	9	99104038	99154192	0.365190713	suppress_segment_too_large
TGFBR2	3	30606502	30694142	0.311018244	suppress_segment_too_large
TGFBR3	1	91680343	91906335	0.033763446	PASS
TGFBR3L	19	7916145	7919097	0.079632875	PASS
TGFBRAP	2	105264391	105330034	-0.532032081	PASS
TGIF1	18	3411608	3459978	-0.052305056	suppress_segment_too_large
TGIF2	20	36573488	36593950	-0.168668583	PASS
TGIF2-RA1	20	36574553	36612384	-0.168668583	PASS
TGIF2LX	23	89921882	89922883	-0.012567603	PASS
TGM1	14	24249114	24264432	0.060212819	PASS
TGM2	20	38127387	38166578	-0.168668583	PASS
TGM3	20	2296001	2341078	-0.168668583	PASS
TGM4	3	44874608	44914990	-0.234617007	PASS
TGM5	15	43232595	43266857	-0.396255771	PASS
TGM6	20	2380908	2432753	-0.168668583	PASS
TGM7	15	43276280	43302255	-0.396255771	PASS
TGOLN2	2	85318020	85328425	0.066915641	PASS
TGS1	8	55773142	55825448	-0.201142258	PASS
TH	11	2163929	2171877	-0.333835828	PASS
THADA	2	43230836	43596046	0.040498426	PASS
THAP1	8	42836674	42843325	-0.201142258	PASS
THAP10	15	70881342	70892785	-0.697600509	PASS
THAP11	16	67842082	67844195	-0.371357732	PASS
THAP12	11	76349956	76380971	0.062969153	PASS
THAP2	12	71663009	71680639	-0.202191512	PASS
THAP3	1	6624866	6635586	0.373964873	suppress_segment_too_large
THAP5	7	108554543	108569750	-0.388946609	PASS
THAP6	4	75513946	75550473	-0.011382299	PASS
THAP7	22	20999104	21002196	-0.575930959	PASS
THAP8	19	36034985	36054762	0.093487731	suppress_segment_too_large

THAP9	4	82900684	82919969	-0.011382299	PASS
THBD	20	23045633	23049741	-0.168668583	PASS
THBS1	15	39581079	39599466	-0.396255771	PASS
THBS2	6	169215780	169254044	-0.035448111	PASS
THBS3	1	155195588	155209051	0.103015788	PASS
THBS4	5	79991311	80083287	-0.293443042	PASS
THEG	19	361747	376670	0.079632875	PASS
THEGL	4	56530609	56603507	-0.011382299	PASS
THEM4	1	151873584	151909808	0.103015788	PASS
THEM5	1	151847263	151853697	0.103015788	PASS
THEM6	8	142727203	142736927	0.113969953	PASS
THEMIS	6	127708072	127918631	-0.458570262	PASS
THEMIS2	1	27872543	27886685	0.033763446	PASS
THG1L	5	157731197	157741448	-0.150979337	PASS
THNSL1	10	25016658	25026664	0.039811807	PASS
THNSL2	2	88170295	88186636	-0.340781246	PASS
THOC1	18	214520	268050	-0.052305056	suppress_segment_too_large
THOC2	23	123600561	123733056	-0.012567603	PASS
THOC3	5	175917873	176034680	-0.150979337	PASS
THOC5	22	29505879	29555216	-0.575930959	PASS
THOC6	16	3024027	3027755	0.069936844	PASS
THOC7	3	63833870	63863903	-0.234617007	PASS
THOP1	19	2785460	2815807	0.079632875	PASS
THPO	3	184371935	184381968	0.318278996	suppress_segment_too_large
THRA	17	40058290	40093867	0.060555011	PASS
THRAP3	1	36224416	36305357	0.033763446	PASS
THRB	3	24117153	24495756	0.311018244	suppress_segment_too_large
THRSP	11	78063861	78068351	0.062969153	PASS
THSD1	13	52377167	52416373	-0.390786075	PASS
THSD4	15	71096952	71783383	-0.697600509	PASS
THSD7A	7	11370357	11832198	-0.69513118	PASS
THSD7B	2	136765545	137677717	-0.475215623	PASS
THSD8	19	12802031	12813581	0.093487731	suppress_segment_too_large
THTPA	14	23555988	23560271	0.060212819	PASS
THUMPD1	16	20702816	20742084	0.069936844	PASS
THUMPD2	2	39736060	39779267	0.040498426	PASS
THUMPD3	3	9362842	9386791	0.311018244	suppress_segment_too_large
THY1	11	119417378	119424985	-0.356188624	PASS
THYN1	11	134248279	134253370	-0.419612865	PASS
TIA1	2	70209444	70248660	-0.372959126	PASS
TIAF1	17	29073521	29078857	0.060555011	PASS
TIAL1	10	119571802	119597029	0.063874692	PASS
TIAM1	21	31118416	31559977	0.12860881	suppress_segment_too_large
TIAM2	6	154832697	155257723	-0.035448111	PASS
TICAM1	19	4815932	4831704	0.079632875	PASS
TICAM2	5	115578650	115602479	-0.293443042	PASS

TICRR	15	89575482	89631056	-0.697600509	PASS
TIE1	1	43300993	43323108	0.033763446	PASS
TIFA	4	112274542	112285903	-0.011382299	PASS
TIFAB	5	135444218	135452399	-0.293443042	PASS
TIGAR	12	4307763	4354593	-0.086128028	PASS
TIGD1	2	232547970	232550592	0.025928102	PASS
TIGD2	4	89111500	89114899	-0.011382299	PASS
TIGD3	11	65354767	65357613	0.182439925	suppress_segment_too_large
TIGD4	4	152769354	152779764	-0.011382299	PASS
TIGD5	8	143597835	143603224	0.307788765	PASS
TIGD6	5	149993118	150001167	-0.293443042	PASS
TIGD7	16	3298832	3305729	0.069936844	PASS
TIGIT	3	114276913	114310288	0.313454204	suppress_segment_too_large
TIMD4	5	156919282	156963255	-0.293443042	PASS
TIMELESS	12	56416373	56449403	-0.202191512	PASS
TIMM10	11	57528463	57530803	-0.129266491	PASS
TIMM10B	11	6481447	6484679	-0.405444717	PASS
TIMM13	19	2425624	2427894	0.079632875	PASS
TIMM17A	1	201955491	201970661	-0.256698369	PASS
TIMM17B	23	48893447	48898143	-0.012567603	PASS
TIMM21	18	74148511	74160530	-0.376397843	PASS
TIMM22	17	997117	1003671	0.128406487	PASS
TIMM23	10	45972449	46003734	-0.404852538	PASS
TIMM23B	10	49942033	49974850	-0.404852538	PASS
TIMM29	19	10928733	10933535	0.093487731	suppress_segment_too_large
TIMM44	19	7926718	7943920	0.079632875	PASS
TIMM50	19	39480412	39493785	0.093487731	suppress_segment_too_large
TIMM8A	23	101345659	101349196	-0.012567603	PASS
TIMM8B	11	112084800	112086798	-0.356188624	PASS
TIMM9	14	58408494	58427614	0.060212819	PASS
TIMMDC1	3	119498532	119525090	0.313454204	suppress_segment_too_large
TIMP1	23	47582313	47586789	-0.012567603	PASS
TIMP2	17	78852977	78925387	0.088516311	PASS
TIMP3	22	32801701	32863043	-0.575930959	PASS
TIMP4	3	12153051	12159351	0.311018244	suppress_segment_too_large
TINAG	6	54307859	54390152	0.048820648	PASS
TINAGL1	1	31576485	31587686	0.033763446	PASS
TINF2	14	24239643	24242674	0.060212819	PASS
TIPARP	3	156673235	156706770	0.318278996	suppress_segment_too_large
TIPIN	15	66336206	66386746	-0.697600509	PASS
TIPRL	1	168178933	168202114	-0.027073548	PASS
TIRAP	11	126283065	126298845	-0.419612865	PASS
TJAP1	6	43477523	43506556	0.048820648	PASS
TJP1	15	29699367	29968865	-0.396255771	PASS
TJP2	9	69121264	69274615	0.365190713	suppress_segment_too_large
TJP3	19	3708109	3750813	0.079632875	PASS

TK1	17	78174075	78187233	0.088516311	PASS
TK2	16	66508003	66552544	-0.371357732	PASS
TKFC	11	61333210	61353295	0.182439925	suppress_segment_too_large
TKT	3	53224707	53256052	-0.234617007	PASS
TKTL1	23	154295671	154330350	-0.012567603	PASS
TKTL2	4	163471093	163473746	-0.011382299	PASS
TLCD1	17	28724348	28727935	0.060555011	PASS
TLCD2	17	1702790	1710438	0.128406487	PASS
TLDC1	16	84476421	84554033	-0.371357732	PASS
TLDC2	20	36876121	36894235	-0.168668583	PASS
TLE1	9	81583683	81689305	0.365190713	suppress_segment_too_large
TLE2	19	2997638	3047635	0.079632875	PASS
TLE3	15	70047790	70098176	-0.697600509	PASS
TLE4	9	79571773	79726882	0.365190713	suppress_segment_too_large
TLE6	19	2977446	2995184	0.079632875	PASS
TLK1	2	170990823	171231314	0.039726562	PASS
TLK2	17	62458658	62615481	0.088516311	PASS
TLL1	4	165873258	166103895	-0.011382299	PASS
TLL2	10	96364606	96513918	-0.367947924	PASS
TLN1	9	35696948	35732395	-0.310444659	PASS
TLN2	15	62390526	62844631	-0.697600509	PASS
TLNRD1	15	81000944	81005788	-0.697600509	PASS
TLR1	4	38790677	38856817	-0.011382299	PASS
TLR10	4	38772239	38782990	-0.011382299	PASS
TLR2	4	153684070	153705702	-0.011382299	PASS
TLR3	4	186069152	186088069	-0.462744716	PASS
TLR4	9	117704175	117724730	0.365190713	suppress_segment_too_large
TLR5	1	223109406	223143282	-0.256698369	PASS
TLR6	4	38823715	38856817	-0.011382299	PASS
TLR7	23	12867083	12890380	-0.012567603	PASS
TLR8	23	12906620	12923169	-0.012567603	PASS
TLR9	3	52221080	52226163	-0.234617007	PASS
TLX1	10	101130505	101137789	-0.367947924	PASS
TLX2	2	74513463	74517147	-0.372959126	PASS
TLX3	5	171309284	171312134	-0.150979337	PASS
TM2D1	1	61681046	61725423	0.033763446	PASS
TM2D2	8	38988808	38996824	-0.201142258	PASS
TM2D3	15	101621444	101652391	-0.697600509	PASS
TM4SF1	3	149369022	149377865	0.318278996	suppress_segment_too_large
TM4SF18	3	149318498	149334414	0.318278996	suppress_segment_too_large
TM4SF19	3	196319342	196338503	0.326834516	PASS
TM4SF19-'	3	196316082	196338373	0.326834516	PASS
TM4SF20	2	227362156	227381995	0.025928102	PASS
TM4SF4	3	149473974	149503281	0.318278996	suppress_segment_too_large
TM4SF5	17	4771884	4783213	0.128406487	PASS
TM6SF1	15	83107407	83144854	-0.697600509	PASS

TM6SF2	19	19264364	19273391	0.093487731	suppress_segment_too_large
TM7SF2	11	65111845	65116384	0.182439925	suppress_segment_too_large
TM7SF3	12	26973195	27014434	0.362961408	suppress_segment_too_large
TM9SF1	14	24189143	24195687	0.060212819	PASS
TM9SF2	13	99446311	99564006	-0.390786075	PASS
TM9SF3	10	96518109	96587452	-0.367947924	PASS
TM9SF4	20	32109506	32167258	-0.168668583	PASS
TMA16	4	163494442	163520539	-0.011382299	PASS
TMA7	3	48440257	48444208	-0.234617007	PASS
TMBIM1	2	218274192	218292586	0.025928102	PASS
TMBIM4	12	66135846	66170072	-0.202191512	PASS
TMBIM6	12	49707725	49764934	-0.202191512	PASS
TMC1	9	72521608	72838230	0.365190713	suppress_segment_too_large
TMC2	20	2536607	2641784	-0.168668583	PASS
TMC3	15	81331217	81374213	-0.697600509	PASS
TMC4	19	54160108	54173250	0.206912349	PASS
TMC5	16	19410496	19499113	0.069936844	PASS
TMC6	17	78110458	78132407	0.088516311	PASS
TMC7	16	18983934	19063942	0.069936844	PASS
TMC8	17	78130770	78142968	0.088516311	PASS
TMCC1	3	129647792	129893606	0.313454204	suppress_segment_too_large
TMCC2	1	205228176	205285632	-0.256698369	PASS
TMCC3	12	94567124	94650562	0.202141228	PASS
TMCO1	1	165724293	165827755	-0.027073548	PASS
TMCO2	1	40245947	40251691	0.033763446	PASS
TMCO3	13	113490995	113554590	-0.390786075	PASS
TMCO4	1	19682213	19799945	0.033763446	PASS
TMCO5A	15	37921939	37967724	-0.396255771	PASS
TMCO6	5	140639427	140645408	-0.293443042	PASS
TMED1	19	10832438	10836318	0.093487731	suppress_segment_too_large
TMED10	14	75131470	75176631	-0.192197564	PASS
TMED2	12	123584531	123598577	0.202141228	PASS
TMED3	15	79311062	79427432	-0.697600509	PASS
TMED4	7	44577894	44582287	-0.69513118	PASS
TMED5	1	93149742	93180728	0.033763446	PASS
TMED6	16	69343248	69351809	-0.371357732	PASS
TMED7	5	115613508	115632992	-0.293443042	PASS
TMED7-TI	5	115578642	115626161	-0.293443042	PASS
TMED8	14	77335021	77377109	-0.192197564	PASS
TMED9	5	177592158	177596124	-0.150979337	PASS
TMEFF1	9	100473113	100577636	0.365190713	suppress_segment_too_large
TMEFF2	2	191949043	192195709	0.025928102	PASS
TMEM100	17	55719627	55732121	0.088516311	PASS
TMEM101	17	44011188	44023946	0.088516311	PASS
TMEM102	17	7435443	7437679	0.128406487	PASS
TMEM104	17	74776483	74839779	0.088516311	PASS

TMEM105	17	81311270	81330674	0.088516311	PASS
TMEM106	17	43211835	43220041	0.088516311	PASS
TMEM106	7	12211241	12243367	-0.69513118	PASS
TMEM106	12	47963569	47968878	-0.202191512	PASS
TMEM107	17	8173237	8176399	0.128406487	PASS
TMEM108	3	133038391	133397792	0.313454204	suppress_segment_too_large
TMEM109	11	60913874	60923443	0.182439925	suppress_segment_too_large
TMEM11	17	21197280	21214624	0.024610076	PASS
TMEM110	3	52833121	52897562	-0.234617007	PASS
TMEM114	16	8537605	8590193	0.069936844	PASS
TMEM115	3	50354749	50359610	-0.234617007	PASS
TMEM116	12	111931282	112013185	0.202141228	PASS
TMEM117	12	43835967	44389762	-0.202191512	PASS
TMEM119	12	108589846	108598320	0.202141228	PASS
TMEM120	7	75986837	75994659	-0.262778904	PASS
TMEM120	12	121712752	121783001	0.202141228	PASS
TMEM121	14	105526603	105530202	-0.192197564	PASS
TMEM121	22	17116299	17121367	-0.575930959	PASS
TMEM123	11	102396332	102470384	0.062969153	PASS
TMEM125	1	43269994	43274002	0.033763446	PASS
TMEM126	11	85647967	85656547	0.062969153	PASS
TMEM126	11	85628573	85636539	0.062969153	PASS
TMEM127	2	96248516	96265994	0.048238121	PASS
TMEM128	4	4235542	4248212	0.279089364	PASS
TMEM129	4	1715952	1721358	0.279089364	PASS
TMEM130	7	98846488	98870771	-0.262778904	PASS
TMEM131	2	97756333	97995891	0.048238121	PASS
TMEM131	4	153466346	153636711	-0.011382299	PASS
TMEM132	11	60924463	60937159	0.182439925	suppress_segment_too_large
TMEM132	12	125186836	125662377	-0.240609783	PASS
TMEM132	12	128267403	128707915	-0.240609783	PASS
TMEM132	12	129071725	129903666	-0.240609783	PASS
TMEM132	17	34579487	34639318	0.060555011	PASS
TMEM134	11	67461710	67469272	0.182439925	suppress_segment_too_large
TMEM135	11	87037844	87323758	0.062969153	PASS
TMEM136	11	120325129	120333682	-0.356188624	PASS
TMEM138	11	61362001	61369509	0.182439925	suppress_segment_too_large
TMEM139	7	143279957	143288048	-0.388946609	PASS
TMEM140	7	135148072	135166215	-0.388946609	PASS
TMEM141	9	136791355	136793257	0.365190713	suppress_segment_too_large
TMEM143	19	48332356	48364237	0.14996833	PASS
TMEM144	4	158201604	158255411	-0.011382299	PASS
TMEM145	19	42313325	42325062	0.093487731	suppress_segment_too_large
TMEM147	19	35545595	35547526	0.093487731	suppress_segment_too_large
TMEM14A	6	52671109	52686588	0.048820648	PASS
TMEM14B	6	10747759	10852753	0.048820648	PASS

TMEM14C	6	10722915	10731129	0.048820648	PASS
TMEM150	2	85598548	85603196	0.066915641	PASS
TMEM150	19	55312801	55334048	0.121336758	PASS
TMEM150	4	82483170	82562357	-0.011382299	PASS
TMEM151	11	66291870	66296664	0.182439925	suppress_segment_too_large
TMEM151	6	44270466	44307506	0.048820648	PASS
TMEM154	4	152618632	152680165	-0.011382299	PASS
TMEM155	4	121758930	121765427	-0.011382299	PASS
TMEM156	4	38966744	39032922	-0.011382299	PASS
TMEM158	3	45224466	45226278	-0.234617007	PASS
TMEM159	16	21158377	21180616	0.069936844	PASS
TMEM160	19	47045907	47048630	0.14996833	PASS
TMEM161	19	19119169	19138513	0.093487731	suppress_segment_too_large
TMEM161	5	88189633	88269476	-0.293443042	PASS
TMEM163	2	134455759	134719000	-0.475215623	PASS
TMEM164	23	110002631	110182734	-0.012567603	PASS
TMEM165	4	55395957	55453397	-0.011382299	PASS
TMEM167	5	83052846	83077863	-0.293443042	PASS
TMEM167	1	109089803	109096934	0.033763446	PASS
TMEM168	7	112762382	112790592	-0.388946609	PASS
TMEM169	2	216081866	216102783	0.025928102	PASS
TMEM17	2	62500221	62511894	-0.372959126	PASS
TMEM170	16	75443054	75465497	-0.371357732	PASS
TMEM170	6	11538278	11583524	0.048820648	PASS
TMEM171	5	73120292	73131817	-0.293443042	PASS
TMEM173	5	139475534	139482935	-0.293443042	PASS
TMEM174	5	73173195	73175143	-0.293443042	PASS
TMEM175	4	932387	958656	0.279089364	PASS
TMEM176	7	150800403	150805120	-0.388946609	PASS
TMEM176	7	150791285	150801360	-0.388946609	PASS
TMEM177	2	119679167	119686507	-0.475215623	PASS
TMEM178	2	39664982	39717963	0.040498426	PASS
TMEM178	7	141074232	141480380	-0.388946609	PASS
TMEM179	14	104474678	104605647	-0.192197564	PASS
TMEM179	11	62787415	62790405	0.182439925	suppress_segment_too_large
TMEM18	2	667335	677439	0.040498426	PASS
TMEM181	6	158536436	158635428	-0.035448111	PASS
TMEM182	2	102736905	103019900	0.048238121	PASS
TMEM183	1	203007386	203024848	-0.256698369	PASS
TMEM184	7	1542235	1560821	-0.69513118	PASS
TMEM184	22	38219291	38273034	-0.575930959	PASS
TMEM184	4	147617383	147672044	-0.011382299	PASS
TMEM185	23	149596556	149631912	-0.012567603	PASS
TMEM185	2	120221278	120223408	-0.475215623	PASS
TMEM186	16	8780384	8797648	0.069936844	PASS
TMEM187	23	153972327	153983195	-0.012567603	PASS

TMEM189	20	50118254	50153734	-0.168668583	PASS
TMEM189	20	50081124	50153637	-0.168668583	PASS
TMEM19	12	71686087	71705046	-0.202191512	PASS
TMEM190	19	55376836	55378244	0.121336758	PASS
TMEM191	22	18527802	18530573	-0.575930959	PASS
TMEM191	22	21466423	21471269	-0.575930959	PASS
TMEM192	4	165070608	165208549	-0.011382299	PASS
TMEM196	7	19719310	19773598	-0.69513118	PASS
TMEM198	2	219543663	219550595	0.025928102	PASS
TMEM199	17	28357581	28363683	0.060555011	PASS
TMEM200	6	130365734	130443063	-0.458570262	PASS
TMEM200	1	29119428	29123935	0.033763446	PASS
TMEM200	18	5882072	5895955	-0.052305056	suppress_segment_too_large
TMEM201	1	9588922	9614873	0.373964873	suppress_segment_too_large
TMEM202	15	72398273	72408029	-0.697600509	PASS
TMEM203	9	137204082	137205638	0.365190713	suppress_segment_too_large
TMEM204	16	1528688	1555580	0.069936844	PASS
TMEM205	19	11342776	11346518	0.093487731	suppress_segment_too_large
TMEM206	1	212363931	212414901	-0.256698369	PASS
TMEM207	3	190428655	190449876	0.318278996	suppress_segment_too_large
TMEM208	16	67227103	67229278	-0.371357732	PASS
TMEM209	7	130164715	130207770	-0.388946609	PASS
TMEM210	9	137170858	137172409	0.365190713	suppress_segment_too_large
TMEM211	22	24934954	24946695	-0.575930959	PASS
TMEM212	3	171843349	171938715	0.318278996	suppress_segment_too_large
TMEM213	7	138797952	138838101	-0.388946609	PASS
TMEM214	2	27032910	27041695	0.040498426	PASS
TMEM215	9	32783499	32787399	-0.310444659	PASS
TMEM216	11	61391687	61398863	0.182439925	suppress_segment_too_large
TMEM217	6	37212180	37258155	0.048820648	PASS
TMEM218	11	125096545	125111763	-0.419612865	PASS
TMEM219	16	29940885	29973052	0.069936844	PASS
TMEM220	17	10699015	10730316	-0.139031004	PASS
TMEM221	19	17435509	17448567	0.093487731	suppress_segment_too_large
TMEM222	1	27322145	27336400	0.033763446	PASS
TMEM223	11	62771629	62792021	0.182439925	suppress_segment_too_large
TMEM225	11	123882926	123885642	-0.949752196	PASS
TMEM225	7	99598066	99610813	-0.262778904	PASS
TMEM229	7	124030916	124033023	-0.388946609	PASS
TMEM229	14	67447084	67533739	0.060212819	PASS
TMEM230	20	5068232	5113103	-0.168668583	PASS
TMEM231	16	75536744	75556286	-0.371357732	PASS
TMEM232	5	110289233	110738956	-0.293443042	PASS
TMEM233	12	119593459	119643066	0.202141228	PASS
TMEM234	1	32214472	32222359	0.033763446	PASS
TMEM235	17	78231310	78240987	0.088516311	PASS

TMEM236	10	17752252	17800868	0.039811807	PASS
TMEM237	2	201620184	201643570	0.025928102	PASS
TMEM238	19	55379245	55384598	0.121336758	PASS
TMEM239	20	2816302	2820284	-0.168668583	PASS
TMEM240	1	1535174	1540453	0.373964873	suppress_segment_too_large
TMEM241	18	23197144	23437961	-0.376397843	PASS
TMEM242	6	157289386	157323601	-0.035448111	PASS
TMEM243	7	87196160	87220587	-0.262778904	PASS
TMEM244	6	129831244	129861547	-0.458570262	PASS
TMEM245	9	109015152	109119945	0.365190713	suppress_segment_too_large
TMEM246	9	101473171	101533537	0.365190713	suppress_segment_too_large
TMEM247	2	46479565	46484425	0.040498426	PASS
TMEM248	7	66921225	66958551	-0.750061359	PASS
TMEM249	8	144352219	144354914	0.307788765	PASS
TMEM25	11	118531041	118547280	-0.356188624	PASS
TMEM250	9	136114581	136118863	0.365190713	suppress_segment_too_large
TMEM251	14	93184951	93187089	-0.192197564	PASS
TMEM252	9	68536580	68540867	-0.310444659	PASS
TMEM253	14	21098937	21103724	0.060212819	PASS
TMEM254	10	80078646	80092557	0.072405807	PASS
TMEM255	23	120258650	120311556	-0.012567603	PASS
TMEM255	13	113759240	113816995	-0.390786075	PASS
TMEM256	17	7402975	7404137	0.128406487	PASS
TMEM256	17	7389734	7404097	0.128406487	PASS
TMEM258	11	61768501	61792802	0.182439925	suppress_segment_too_large
TMEM259	19	1009648	1021179	0.079632875	PASS
TMEM26	10	61406643	61453450	0.072405807	PASS
TMEM260	14	56488354	56650606	0.060212819	PASS
TMEM262	11	65084979	65089375	0.182439925	suppress_segment_too_large
TMEM263	12	106955719	106978778	0.202141228	PASS
TMEM265	16	30740381	30744281	0.069936844	PASS
TMEM266	15	76059837	76229121	-0.697600509	PASS
TMEM267	5	43444252	43483893	-0.293443042	PASS
TMEM268	9	114611206	114646422	0.365190713	suppress_segment_too_large
TMEM269	1	42785007	42816619	0.033763446	PASS
TMEM270	7	73861159	73865893	-0.262778904	PASS
TMEM273	10	49154725	49188585	-0.404852538	PASS
TMEM30A	6	75252924	75284968	-0.368590549	PASS
TMEM30B	14	61277370	61281840	0.060212819	PASS
TMEM31	23	103710909	103714028	-0.012567603	PASS
TMEM33	4	41935120	41960572	-0.011382299	PASS
TMEM35A	23	101078720	101096364	-0.012567603	PASS
TMEM35B	1	34981535	34985353	0.033763446	PASS
TMEM37	2	119429901	119438520	-0.475215623	PASS
TMEM38A	19	16661127	16690029	0.093487731	suppress_segment_too_large
TMEM38B	9	105694544	105776612	0.365190713	suppress_segment_too_large

TMEM39A	3	119429500	119468830	0.313454204	suppress_segment_too_large
TMEM39B	1	32072031	32102866	0.033763446	PASS
TMEM40	3	12733525	12769457	0.311018244	suppress_segment_too_large
TMEM41A	3	185476496	185499057	0.318278996	suppress_segment_too_large
TMEM41B	11	9280654	9314780	-0.405444717	PASS
TMEM42	3	44861869	44865670	-0.234617007	PASS
TMEM43	3	14124940	14143679	0.311018244	suppress_segment_too_large
TMEM44	3	194587673	194633689	0.326834516	PASS
TMEM45A	3	100492619	100577444	0.313454204	suppress_segment_too_large
TMEM45B	11	129815819	129860003	-0.419612865	PASS
TMEM47	23	34627064	34657288	-0.012567603	PASS
TMEM50A	1	25337917	25362361	0.033763446	PASS
TMEM50B	21	33432485	33480011	0.12860881	suppress_segment_too_large
TMEM51	1	15152532	15220480	0.033763446	PASS
TMEM52	1	1917590	1919273	0.373964873	suppress_segment_too_large
TMEM52B	12	10170542	10191801	0.362961408	suppress_segment_too_large
TMEM53	1	44635238	44674555	0.033763446	PASS
TMEM54	1	32894594	32901438	0.033763446	PASS
TMEM56	1	95117338	95197607	0.033763446	PASS
TMEM56-I	1	95117923	95247225	0.033763446	PASS
TMEM59	1	54026681	54053504	0.033763446	PASS
TMEM59L	19	18607430	18621039	0.093487731	suppress_segment_too_large
TMEM60	7	77793728	77798580	-0.262778904	PASS
TMEM61	1	54980792	54992293	0.033763446	PASS
TMEM62	15	43123279	43185146	-0.396255771	PASS
TMEM63A	1	225845536	225882369	-0.256698369	PASS
TMEM63B	6	44126914	44155519	0.048820648	PASS
TMEM63C	14	77116568	77259495	-0.192197564	PASS
TMEM64	8	90621995	90791632	0.279445683	PASS
TMEM65	8	124306189	124372692	0.279445683	PASS
TMEM67	8	93754844	93819234	0.279445683	PASS
TMEM68	8	55696424	55773407	-0.201142258	PASS
TMEM69	1	45687214	45694443	0.033763446	PASS
TMEM70	8	73972437	73982783	-0.201142258	PASS
TMEM71	8	132685007	132760712	0.113969953	PASS
TMEM72	10	44911200	44937002	-0.404852538	PASS
TMEM74	8	108606850	108787615	0.279445683	PASS
TMEM74B	20	1180561	1185415	-0.168668583	PASS
TMEM79	1	156282935	156293185	0.103015788	PASS
TMEM80	11	695428	705028	-0.333835828	PASS
TMEM81	1	205083129	205084460	-0.256698369	PASS
TMEM82	1	15742422	15747982	0.033763446	PASS
TMEM86A	11	18693122	18704785	-0.405444717	PASS
TMEM86B	19	55226639	55229264	0.121336758	PASS
TMEM87A	15	42210452	42273663	-0.396255771	PASS
TMEM87B	2	112055223	112119318	-0.010901494	PASS

TMEM88	17	7855065	7856099	0.128406487	PASS
TMEM88B	1	1426128	1427787	0.373964873	suppress_segment_too_large
TMEM89	3	48620759	48621855	-0.234617007	PASS
TMEM8A	16	370773	387113	0.069936844	PASS
TMEM8B	9	35814451	35865518	-0.310444659	PASS
TMEM9	1	201134772	201171574	-0.256698369	PASS
TMEM91	19	41350911	41384083	0.093487731	suppress_segment_too_large
TMEM92	17	50271406	50281485	0.088516311	PASS
TMEM94	17	75441159	75500090	0.088516311	PASS
TMEM95	17	7355123	7357219	0.128406487	PASS
TMEM97	17	28319095	28328685	0.060555011	PASS
TMEM98	17	32927910	32945106	0.060555011	PASS
TMEM99	17	40819106	40836274	0.060555011	PASS
TMEM9B	11	8947294	8965011	-0.405444717	PASS
TMF1	3	69019827	69052339	-0.234617007	PASS
TMIE	3	46694528	46710886	-0.234617007	PASS
TMIGD1	17	30316333	30334059	0.060555011	PASS
TMIGD2	19	4292232	4302431	0.079632875	PASS
TMIGD3	1	111483348	111563962	0.033763446	PASS
TMLHE	23	155490115	155669944	-0.012567603	PASS
TMOD1	9	97501180	97601748	0.365190713	suppress_segment_too_large
TMOD2	15	51751561	51816368	-0.396255771	PASS
TMOD3	15	51829628	51947295	-0.396255771	PASS
TMOD4	1	151169986	151176284	0.103015788	PASS
TMPO	12	98515512	98550379	0.202141228	PASS
TMPPE	3	33090421	33096801	0.311018244	suppress_segment_too_large
TMPRSS11	4	67909385	67964140	-0.011382299	PASS
TMPRSS11	4	68226653	68245720	-0.011382299	PASS
TMPRSS11	4	67820876	67884032	-0.011382299	PASS
TMPRSS11	4	68447449	68497604	-0.011382299	PASS
TMPRSS11	4	68053198	68129880	-0.011382299	PASS
TMPRSS12	12	50842920	50887884	-0.202191512	PASS
TMPRSS13	11	117900643	117929459	-0.356188624	PASS
TMPRSS15	21	18269116	18485879	0.12860881	suppress_segment_too_large
TMPRSS2	21	41464551	41531116	-0.064425456	suppress_segment_too_large
TMPRSS3	21	42371837	42396846	-0.064425456	suppress_segment_too_large
TMPRSS4	11	118077012	118121890	-0.356188624	PASS
TMPRSS5	11	113687546	113706373	-0.356188624	PASS
TMPRSS6	22	37065436	37109713	-0.575930959	PASS
TMPRSS7	3	112034843	112081269	0.313454204	suppress_segment_too_large
TMPRSS9	19	2360238	2426239	0.079632875	PASS
TMSB10	2	84905625	84906675	0.066915641	PASS
TMSB15A	23	102513676	102516784	-0.012567603	PASS
TMSB15B	23	103918896	104076212	-0.012567603	PASS
TMSB4X	23	12975108	12977227	-0.012567603	PASS
TMTC1	12	29500840	29784759	0.362961408	suppress_segment_too_large

TMTC2	12	82686880	83134870	0.202141228	PASS
TMTC3	12	88142296	88199887	0.202141228	PASS
TMTC4	13	100603927	100675093	-0.390786075	PASS
TMUB1	7	151081080	151083546	-0.388946609	PASS
TMUB2	17	44186970	44191731	0.088516311	PASS
TMX1	14	51240162	51257546	0.060212819	PASS
TMX2	11	57712600	57740973	-0.129266491	PASS
TMX2-CTI	11	57712605	57791586	-0.129266491	PASS
TMX3	18	68673688	68715298	-0.376397843	PASS
TMX4	20	7977348	8019829	-0.168668583	PASS
TNC	9	115019578	115118257	0.365190713	suppress_segment_too_large
TNF	6	31575567	31578336	0.048820648	PASS
TNFAIP1	17	28335602	28347009	0.060555011	PASS
TNFAIP2	14	103123442	103137439	-0.192197564	PASS
TNFAIP3	6	137867188	137883312	-0.035448111	PASS
TNFAIP6	2	151357592	151380048	-0.475215623	PASS
TNFAIP8	5	119268692	119399688	-0.293443042	PASS
TNFAIP8L	19	4639518	4655568	0.079632875	PASS
TNFAIP8L	1	151156629	151159749	0.103015788	PASS
TNFAIP8L	15	51056598	51105276	-0.396255771	PASS
TNFRSF10	8	23190452	23225126	-0.345962679	PASS
TNFRSF10	8	23020133	23069179	-0.345962679	PASS
TNFRSF10	8	23102590	23117437	-0.345962679	PASS
TNFRSF10	8	23135588	23164030	-0.345962679	PASS
TNFRSF11	18	62325287	62391292	-0.376397843	PASS
TNFRSF11	8	118923557	118952200	0.279445683	PASS
TNFRSF12	16	3018445	3022383	0.069936844	PASS
TNFRSF13	17	16929816	16972118	0.024610076	PASS
TNFRSF13	22	41922023	41926818	-0.575930959	PASS
TNFRSF14	1	2555639	2565382	0.373964873	suppress_segment_too_large
TNFRSF17	16	11965107	11968068	0.069936844	PASS
TNFRSF18	1	1203508	1206691	0.373964873	suppress_segment_too_large
TNFRSF19	13	23570370	23676104	-0.390786075	PASS
TNFRSF1A	12	6328757	6342114	-0.086128028	PASS
TNFRSF1B	1	12167003	12209228	0.003932739	PASS
TNFRSF21	6	47231532	47309905	0.048820648	PASS
TNFRSF25	1	6460786	6466195	0.373964873	suppress_segment_too_large
TNFRSF4	1	1211326	1214138	0.373964873	suppress_segment_too_large
TNFRSF6B	20	63696651	63698684	-0.168668583	PASS
TNFRSF8	1	12063377	12144207	0.003932739	PASS
TNFRSF9	1	7915894	7943165	0.373964873	suppress_segment_too_large
TNFSF10	3	172505508	172523507	0.318278996	suppress_segment_too_large
TNFSF11	13	42562736	42608013	-0.390786075	PASS
TNFSF12	17	7548891	7557890	0.128406487	PASS
TNFSF12-T	17	7549099	7561601	0.128406487	PASS
TNFSF13	17	7558292	7561608	0.128406487	PASS

TNFSF13B	13	108251240	108308484	-0.390786075	PASS
TNFSF14	19	6661253	6670588	0.079632875	PASS
TNFSF15	9	114784635	114806126	0.365190713	suppress_segment_too_large
TNFSF18	1	173039960	173050963	-0.027073548	PASS
TNFSF4	1	173183734	173207313	-0.027073548	PASS
TNFSF8	9	114893343	114930595	0.365190713	suppress_segment_too_large
TNFSF9	19	6530999	6535928	0.079632875	PASS
TNIK	3	171061339	171460408	0.318278996	suppress_segment_too_large
TNIP1	5	151029945	151093577	-0.293443042	PASS
TNIP2	4	2741648	2756376	0.279089364	PASS
TNIP3	4	121131408	121227466	-0.011382299	PASS
TNK1	17	7380534	7389774	0.128406487	PASS
TNK2	3	195863364	195911945	0.326834516	PASS
TNKS	8	9555914	9782346	-0.345962679	PASS
TNKS1BP1	11	57299638	57324952	-0.129266491	PASS
TNKS2	10	91798312	91865276	-0.39678585	PASS
TNMD	23	100584802	100599885	-0.012567603	PASS
TNN	1	175067858	175148066	-0.027073548	PASS
TNNC1	3	52451102	52454070	-0.234617007	PASS
TNNC2	20	45823214	45833745	-0.168668583	PASS
TNNI1	1	201403768	201429866	-0.256698369	PASS
TNNI2	11	1838989	1841680	-0.333835828	PASS
TNNI3	19	55151767	55157773	0.121336758	PASS
TNNI3K	1	74235401	74544428	0.033763446	PASS
TNNT1	19	55132794	55149354	0.121336758	PASS
TNNT2	1	201359008	201377762	-0.256698369	PASS
TNNT3	11	1919562	1938706	-0.333835828	PASS
TNP1	2	216859458	216860064	0.025928102	PASS
TNP2	16	11267748	11269533	0.069936844	PASS
TNPO1	5	72816312	72916733	-0.293443042	PASS
TNPO2	19	12699194	12724011	0.093487731	suppress_segment_too_large
TNPO3	7	128954180	129055173	-0.388946609	PASS
TNR	1	175315194	175743770	-0.027073548	PASS
TNRC18	7	5306790	5425414	-0.69513118	PASS
TNRC6A	16	24610209	24827632	0.069936844	PASS
TNRC6B	22	40044817	40335808	-0.575930959	PASS
TNRC6C	17	77959240	78108835	0.088516311	PASS
TNS1	2	217799588	218033982	0.025928102	PASS
TNS2	12	53046969	53064372	-0.202191512	PASS
TNS3	7	47275154	47582558	-0.69513118	PASS
TNS4	17	40475828	40501597	0.060555011	PASS
TNXB	6	32041153	32115334	0.048820648	PASS
TOB1	17	50862223	50867978	0.088516311	PASS
TOB2	22	41433492	41447023	-0.575930959	PASS
TOE1	1	45339670	45343975	0.033763446	PASS
TOGARAM	14	44962208	45074431	0.060212819	PASS

TOGARAM	2	28956611	29061373	0.040498426	PASS
TOLLIP	11	1274371	1309654	-0.333835828	PASS
TOM1	22	35299275	35347994	-0.575930959	PASS
TOM1L1	17	54899387	54961956	0.088516311	PASS
TOM1L2	17	17843511	17972422	0.024610076	PASS
TOMM20	1	235109336	235128936	-0.256698369	PASS
TOMM20L	14	58395916	58408701	0.060212819	PASS
TOMM22	22	38681948	38685421	-0.575930959	PASS
TOMM34	20	44942130	44960486	-0.168668583	PASS
TOMM40	19	44890569	44903689	0.14996833	PASS
TOMM40L	1	161225939	161230744	-0.027073548	PASS
TOMM5	9	37582646	37592642	-0.310444659	PASS
TOMM6	6	41787662	41789898	0.048820648	PASS
TOMM7	7	22812628	22822852	-0.69513118	PASS
TOMM70	3	100363431	100401398	0.313454204	suppress_segment_too_large
TONSL	8	144428775	144444444	0.307788765	PASS
TOP1	20	41028818	41124487	-0.168668583	PASS
TOP1MT	8	143304384	143359979	0.307788765	PASS
TOP2A	17	40388516	40417950	0.060555011	PASS
TOP2B	3	25597905	25664907	0.311018244	suppress_segment_too_large
TOP3A	17	18271428	18315007	0.024610076	PASS
TOP3B	22	21957025	21982816	-0.575930959	PASS
TOPAZ1	3	44241886	44332098	-0.234617007	PASS
TOPBP1	3	133598175	133662380	0.313454204	suppress_segment_too_large
TOPORS	9	32540544	32552553	-0.310444659	PASS
TOR1A	9	129812944	129824134	0.365190713	suppress_segment_too_large
TOR1AIP1	1	179882042	179925000	-0.027073548	PASS
TOR1AIP2	1	179839967	179877803	-0.027073548	PASS
TOR1B	9	129803153	129811281	0.365190713	suppress_segment_too_large
TOR2A	9	127731524	127735317	0.365190713	suppress_segment_too_large
TOR3A	1	179081377	179098023	-0.027073548	PASS
TOR4A	9	137277749	137282641	0.365190713	suppress_segment_too_large
TOX	8	58805418	59119208	-0.201142258	PASS
TOX2	20	43914864	44069616	-0.168668583	PASS
TOX3	16	52438005	52547802	-0.371357732	PASS
TOX4	14	21476597	21499175	0.060212819	PASS
TP53	17	7661779	7687550	0.128406487	PASS
TP53AIP1	11	128934731	128943399	-0.419612865	PASS
TP53BP1	15	43403061	43510728	-0.396255771	PASS
TP53BP2	1	223779899	223845972	-0.256698369	PASS
TP53I11	11	44885903	44951306	0.117376172	PASS
TP53I13	17	29566052	29573157	0.060555011	PASS
TP53I3	2	24077433	24085861	0.040498426	PASS
TP53INP1	8	94925972	94949411	0.279445683	PASS
TP53INP2	20	34704290	34713439	-0.168668583	PASS
TP53RK	20	46684365	46689779	-0.168668583	PASS

TP53TG3D	16	32252719	32255922	0.069936844	PASS
TP53TG5	20	45372563	45407889	-0.168668583	PASS
TP63	3	189631416	189897279	0.318278996	suppress_segment_too_large
TP73	1	3652520	3736201	0.373964873	suppress_segment_too_large
TPBG	6	82363206	82370828	-0.368590549	PASS
TPBGL	11	75240905	75243697	0.062969153	PASS
TPCN1	12	113221050	113298585	0.202141228	PASS
TPCN2	11	69048897	69162440	0.182439925	suppress_segment_too_large
TPD52	8	80034745	80231232	0.279445683	PASS
TPD52L1	6	125119049	125264407	-0.458570262	PASS
TPD52L2	20	63865228	63891545	-0.168668583	PASS
TPD52L3	9	6328375	6331900	-0.310444659	PASS
TPGS1	19	507497	519654	0.079632875	PASS
TPGS2	18	36777647	36829216	-0.376397843	PASS
TPH1	11	18017564	18042426	-0.405444717	PASS
TPH2	12	71938846	72186618	-0.202191512	PASS
TPI1	12	6867119	6870948	-0.086128028	PASS
TPK1	7	144451941	144836395	-0.388946609	PASS
TPM1	15	63042632	63071915	-0.697600509	PASS
TPM2	9	35681992	35690121	-0.310444659	PASS
TPM3	1	154155304	154194648	0.103015788	PASS
TPM4	19	16067021	16103005	0.093487731	suppress_segment_too_large
TPMT	6	18128311	18155074	0.048820648	PASS
TPO	2	1374066	1543711	0.040498426	PASS
TPP1	11	6612763	6619485	-0.405444717	PASS
TPP2	13	102597003	102679958	-0.390786075	PASS
TPPP	5	659862	693395	0.055007813	PASS
TPPP2	14	21024109	21036276	0.060212819	PASS
TPPP3	16	67389809	67393535	-0.371357732	PASS
TPR	1	186311652	186375693	-0.027073548	PASS
TPRA1	3	127571266	127598267	0.313454204	suppress_segment_too_large
TPRG1	3	188947214	189325304	0.318278996	suppress_segment_too_large
TPRG1L	1	3625002	3630127	0.373964873	suppress_segment_too_large
TPRKB	2	73729104	73737400	-0.372959126	PASS
TPRN	9	137191617	137204193	0.365190713	suppress_segment_too_large
TPRX1	19	47801243	47819051	0.14996833	PASS
TPSAB1	16	1240696	1242554	0.069936844	PASS
TPSB2	16	1227272	1230184	0.069936844	PASS
TPSD1	16	1256059	1258998	0.069936844	PASS
TPSG1	16	1221651	1225257	0.069936844	PASS
TPST1	7	66205199	66420543	-0.750061359	PASS
TPST2	22	26521983	26596717	-0.575930959	PASS
TPT1	13	45333471	45341370	-0.390786075	PASS
TPTE	21	10521553	10606140	-0.304975024	PASS
TPTE2	13	19422877	19536762	-0.390786075	PASS
TPTEP2-C	22	38291918	38398522	-0.575930959	PASS

TPX2	20	31739271	31801805	-0.168668583	PASS
TRA2A	7	23504780	23532041	-0.69513118	PASS
TRA2B	3	185915906	185938136	0.318278996	suppress_segment_too_large
TRABD	22	50185915	50199598	-0.808211634	PASS
TRABD2A	2	84821650	84907008	0.066915641	PASS
TRABD2B	1	47760528	47996895	0.033763446	PASS
TRADD	16	67154180	67160298	-0.371357732	PASS
TRAF1	9	120902393	120929173	0.365190713	suppress_segment_too_large
TRAF2	9	136881912	136926607	0.365190713	suppress_segment_too_large
TRAF3	14	102777476	102911500	-0.192197564	PASS
TRAF3IP1	2	238320441	238400900	0.025928102	PASS
TRAF3IP2	6	111556454	111606278	-0.368590549	PASS
TRAF3IP3	1	209756032	209782320	-0.256698369	PASS
TRAF4	17	28743984	28750958	0.060555011	PASS
TRAF5	1	211326615	211374946	-0.256698369	PASS
TRAF6	11	36487027	36510272	-0.405444717	PASS
TRAF7	16	2155698	2178129	0.069936844	PASS
TRAFD1	12	112125501	112153609	0.202141228	PASS
TRAIP	3	49828599	49856574	-0.234617007	PASS
TRAK1	3	42013802	42225889	-0.234617007	PASS
TRAK2	2	201377207	201451579	0.025928102	PASS
TRAM1	8	70573442	70608387	-0.201142258	PASS
TRAM1L1	4	117083554	117085576	-0.011382299	PASS
TRAM2	6	52497402	52576915	0.048820648	PASS
TRANK1	3	36826820	36945098	-0.234617007	PASS
TRAP1	16	3651639	3717597	0.069936844	PASS
TRAPPC1	17	7930345	7932123	0.128406487	PASS
TRAPPC1(	21	44012319	44106552	-0.064425456	suppress_segment_too_large
TRAPPC11	4	183659267	183713594	-0.462744716	PASS
TRAPPC12	2	3379675	3485094	0.040498426	PASS
TRAPPC13	5	65624716	65666233	-0.293443042	PASS
TRAPPC2	23	13712244	13734635	-0.012567603	PASS
TRAPPC2I	19	57363511	57365353	-0.180829161	PASS
TRAPPC2I	16	88856220	88862686	-0.371357732	PASS
TRAPPC3	1	36136570	36156053	0.033763446	PASS
TRAPPC3I	6	116494989	116545610	-0.368590549	PASS
TRAPPC4	11	119018432	119025454	-0.356188624	PASS
TRAPPC5	19	7680843	7687703	0.079632875	PASS
TRAPPC6A	19	45162928	45178237	0.14996833	PASS
TRAPPC6I	14	39147811	39170532	0.060212819	PASS
TRAPPC8	18	31829173	31953136	-0.376397843	PASS
TRAPPC9	8	139727725	140458579	0.113969953	PASS
TRARG1	17	1279663	1300987	0.128406487	PASS
TRAT1	3	108822698	108855005	0.313454204	suppress_segment_too_large
TRDMT1	10	17142254	17202054	0.039811807	PASS
TRDN	6	123216339	123637093	-1.97829255	PASS

TREH	11	118657316	118679690	-0.356188624	PASS
TREM1	6	41267926	41286719	0.048820648	PASS
TREM2	6	41158506	41163186	0.048820648	PASS
TREML1	6	41149342	41154337	0.048820648	PASS
TREML2	6	41190277	41201194	0.048820648	PASS
TREML4	6	41228324	41238882	0.048820648	PASS
TRERF1	6	42224931	42452051	0.048820648	PASS
TREX1	3	48465811	48467645	-0.234617007	PASS
TREX2	23	153444720	153470587	-0.012567603	PASS
TRH	3	129974305	129977938	0.313454204	suppress_segment_too_large
TRHDE	12	72087266	72670757	-0.202191512	PASS
TRHR	8	109086621	109119584	0.279445683	PASS
TRIAP1	12	120443961	120446412	0.202141228	PASS
TRIB1	8	125430321	125438405	0.279445683	PASS
TRIB2	2	12716889	12742734	0.040498426	PASS
TRIB3	20	362835	397559	-0.168668583	PASS
TRIL	7	28953358	28958292	-0.69513118	PASS
TRIM10	6	30151945	30160934	0.048820648	PASS
TRIM11	1	228393673	228406840	-0.256698369	PASS
TRIM13	13	49995888	50020481	-0.390786075	PASS
TRIM14	9	98069275	98119212	0.365190713	suppress_segment_too_large
TRIM15	6	30163206	30172696	0.048820648	PASS
TRIM16	17	15627960	15684311	-0.139031004	PASS
TRIM16L	17	18697998	18736118	0.024610076	PASS
TRIM17	1	228407940	228416861	-0.256698369	PASS
TRIM2	4	153152342	153339320	-0.011382299	PASS
TRIM21	11	4384897	4393696	-0.333835828	PASS
TRIM22	11	5689689	5737089	-0.957525224	PASS
TRIM23	5	65589680	65625975	-0.293443042	PASS
TRIM24	7	138460334	138589993	-0.388946609	PASS
TRIM25	17	56836387	56914080	0.088516311	PASS
TRIM26	6	30184455	30213427	0.048820648	PASS
TRIM27	6	28903002	28923989	0.048820648	PASS
TRIM28	19	58544091	58550722	0.063781462	PASS
TRIM29	11	120111275	120185529	-0.356188624	PASS
TRIM3	11	6448613	6474459	-0.405444717	PASS
TRIM31	6	30102897	30113106	0.048820648	PASS
TRIM32	9	116687302	116701300	0.365190713	suppress_segment_too_large
TRIM33	1	114392777	114511160	0.033763446	PASS
TRIM34	11	5619764	5644398	-0.957525224	PASS
TRIM35	8	27284887	27311319	-0.345962679	PASS
TRIM36	5	115124762	115180546	-0.293443042	PASS
TRIM37	17	58982638	59106921	0.088516311	PASS
TRIM38	6	25962802	25991226	0.048820648	PASS
TRIM39	6	30326479	30343729	0.048820648	PASS
TRIM39-R	6	30328907	30346854	0.048820648	PASS

TRIM4	7	99876958	99919600	-0.262778904	PASS
TRIM40	6	30136108	30148735	0.048820648	PASS
TRIM41	5	181222499	181235809	-0.150979337	PASS
TRIM42	3	140678039	140701150	-0.356957581	PASS
TRIM43	2	95592018	95599778	0.048238121	PASS
TRIM43B	2	95476967	95484731	0.048238121	PASS
TRIM44	11	35662805	35818007	-0.405444717	PASS
TRIM45	1	117111060	117122587	0.033763446	PASS
TRIM46	1	155173787	155184971	0.103015788	PASS
TRIM47	17	75874161	75878575	0.088516311	PASS
TRIM48	11	55262182	55271119	-0.129266491	PASS
TRIM49	11	89797655	89808575	0.062969153	PASS
TRIM49B	11	49027501	49038451	-0.621795272	PASS
TRIM49C	11	90031106	90042025	0.062969153	PASS
TRIM5	11	5663557	5938619	-0.957525224	PASS
TRIM50	7	73312539	73328082	-0.262778904	PASS
TRIM51	11	55883297	55891810	-0.129266491	PASS
TRIM51GF	11	48975324	48983826	-0.621795272	PASS
TRIM52	5	181254417	181261139	-0.150979337	PASS
TRIM54	2	27282392	27307439	0.040498426	PASS
TRIM55	8	66126896	66175487	-0.201142258	PASS
TRIM56	7	101085439	101097967	-0.388946609	PASS
TRIM58	1	247857199	247878205	-0.368111568	PASS
TRIM59	3	160432445	160485773	0.318278996	suppress_segment_too_large
TRIM6	11	5596109	5612958	-0.957525224	PASS
TRIM6-TR	11	5596725	5644398	-0.957525224	PASS
TRIM60	4	165016458	165041744	-0.011382299	PASS
TRIM61	4	164954446	164977668	-0.011382299	PASS
TRIM62	1	33145402	33182059	0.033763446	PASS
TRIM63	1	26051304	26068436	0.033763446	PASS
TRIM64	11	89968502	89975228	0.062969153	PASS
TRIM64B	11	89869282	89876017	0.062969153	PASS
TRIM64C	11	49053714	49059112	-0.621795272	PASS
TRIM65	17	75880335	75897003	0.088516311	PASS
TRIM66	11	8612037	8682694	-0.405444717	PASS
TRIM67	1	231162112	231221556	-0.256698369	PASS
TRIM68	11	4598672	4608259	-0.333835828	PASS
TRIM69	15	44728988	44767829	-0.396255771	PASS
TRIM7	5	181193924	181205293	-0.150979337	PASS
TRIM71	3	32818018	32897826	0.311018244	suppress_segment_too_large
TRIM72	16	31214021	31231537	0.069936844	PASS
TRIM73	7	75395063	75410996	-0.262778904	PASS
TRIM74	7	72959485	72969466	-0.262778904	PASS
TRIM77	11	89710299	89717872	0.062969153	PASS
TRIM8	10	102642310	102660680	-0.367947924	PASS
TRIM9	14	50975262	51096061	0.060212819	PASS

TRIML1	4	188139419	188147743	-0.462744716	PASS
TRIML2	4	188091273	188109603	-0.462744716	PASS
TRIO	5	14143702	14532128	0.055007813	PASS
TRIOBP	22	37696988	37776556	-0.575930959	PASS
TRIP10	19	6737925	6751526	0.079632875	PASS
TRIP11	14	91965991	92040896	-0.192197564	PASS
TRIP12	2	229763838	229923239	0.025928102	PASS
TRIP13	5	892643	919357	0.055007813	PASS
TRIP4	15	64387748	64455303	-0.697600509	PASS
TRIP6	7	100867138	100873454	-0.262778904	PASS
TRIQK	8	92883530	93017673	0.279445683	PASS
TRIR	19	12730640	12734775	0.093487731	suppress_segment_too_large
TRIT1	1	39838110	39883511	0.033763446	PASS
TRMO	9	97904489	97922570	0.365190713	suppress_segment_too_large
TRMT1	19	13104902	13117567	0.093487731	suppress_segment_too_large
TRMT10A	4	99546709	99564032	-0.011382299	PASS
TRMT10B	9	37753803	37778972	-0.310444659	PASS
TRMT10C	3	101561862	101566446	0.313454204	suppress_segment_too_large
TRMT11	6	125986430	126203817	-0.458570262	PASS
TRMT112	11	64316460	64318084	0.182439925	suppress_segment_too_large
TRMT12	8	124450820	124462150	0.279445683	PASS
TRMT13	1	100133150	100150497	0.033763446	PASS
TRMT1L	1	185118098	185157072	-0.027073548	PASS
TRMT2A	22	20111866	20117392	-0.575930959	PASS
TRMT2B	23	101009346	101052116	-0.012567603	PASS
TRMT44	4	8436140	8493531	0.279089364	PASS
TRMT5	14	60971451	60981358	0.060212819	PASS
TRMT6	20	5937235	5950558	-0.168668583	PASS
TRMT61A	14	103529184	103537073	-0.192197564	PASS
TRMT61B	2	28849821	28870301	0.040498426	PASS
TRMT9B	8	12945642	13031503	-0.345962679	PASS
TRMU	22	46330875	46357340	-0.808211634	PASS
TRNAU1A	1	28553085	28578545	0.033763446	PASS
TRNP1	1	26993707	27000898	0.033763446	PASS
TRNT1	3	3126916	3150879	0.311018244	suppress_segment_too_large
TRO	23	54920462	54931431	-0.012567603	PASS
TROAP	12	49323236	49331731	-0.202191512	PASS
TROVE2	1	193059422	193091777	-0.027073548	PASS
TRPA1	8	72019917	72075617	-0.201142258	PASS
TRPC1	3	142724074	142807888	0.318278996	suppress_segment_too_large
TRPC3	4	121879027	121951754	-0.011382299	PASS
TRPC4	13	37636636	37870425	-0.390786075	PASS
TRPC4AP	20	35002404	35092871	-0.168668583	PASS
TRPC5	23	111774315	112082776	-0.012567603	PASS
TRPC5OS	23	111876051	111903990	-0.012567603	PASS
TRPC6	11	101451564	101872562	0.062969153	PASS

TRPC7	5	136213320	136365545	-0.293443042	PASS
TRPM1	15	31001061	31161273	-0.396255771	PASS
TRPM2	21	44350163	44443081	-0.064425456	suppress_segment_too_large
TRPM3	9	70529063	71446904	0.365190713	suppress_segment_too_large
TRPM4	19	49157741	49211836	0.14996833	PASS
TRPM5	11	2404515	2423045	-0.333835828	PASS
TRPM6	9	74722495	74888094	0.365190713	suppress_segment_too_large
TRPM7	15	50552473	50686815	-0.396255771	PASS
TRPM8	2	233917398	234019522	0.025928102	PASS
TRPS1	8	115408496	115809673	0.279445683	PASS
TRPT1	11	64223799	64226254	0.182439925	suppress_segment_too_large
TRPV1	17	3565444	3609411	0.128406487	PASS
TRPV2	17	16415542	16437003	0.024610076	PASS
TRPV3	17	3510502	3557995	0.128406487	PASS
TRPV4	12	109783085	109833401	0.202141228	PASS
TRPV5	7	142908101	142933808	-0.388946609	PASS
TRPV6	7	142871203	142885762	-0.388946609	PASS
TRRAP	7	98877933	99050831	-0.262778904	PASS
TRUB1	10	114938193	114977676	0.063874692	PASS
TRUB2	9	128305161	128322742	0.365190713	suppress_segment_too_large
TSACC	1	156337314	156346995	0.103015788	PASS
TSC1	9	132891348	132946874	0.365190713	suppress_segment_too_large
TSC2	16	2047465	2089487	0.069936844	PASS
TSC22D1	13	44432143	44577147	-0.390786075	PASS
TSC22D2	3	150408335	150466431	0.318278996	suppress_segment_too_large
TSC22D3	23	107713221	107777342	-0.012567603	PASS
TSC22D4	7	100463359	100479279	-0.262778904	PASS
TSEN15	1	184051651	184123978	-0.027073548	PASS
TSEN2	3	12484432	12539623	0.311018244	suppress_segment_too_large
TSEN34	19	54189938	54194536	0.206912349	PASS
TSEN54	17	75516060	75524739	0.088516311	PASS
TSFM	12	57782589	57808071	-0.202191512	PASS
TSG101	11	18468336	18527232	-0.405444717	PASS
TSGA10	2	98997261	99154964	0.048238121	PASS
TSGA10IP	11	65945445	65959963	0.182439925	suppress_segment_too_large
TSGA13	7	130668648	130687432	-0.388946609	PASS
TSHB	1	115029824	115034309	0.033763446	PASS
TSHR	14	80954989	81146302	-0.192197564	PASS
TSHZ1	18	75210755	75289950	-0.376397843	PASS
TSHZ2	20	52972407	53495330	-0.168668583	PASS
TSHZ3	19	31274945	31349547	0.093487731	suppress_segment_too_large
TSKS	19	49739753	49763330	0.14996833	PASS
TSKU	11	76782251	76798154	0.062969153	PASS
TSLP	5	111070062	111078024	-0.293443042	PASS
TSN	2	121737103	121767853	-0.475215623	PASS
TSNARE1	8	142212080	142403240	0.113969953	PASS

TSNAX	1	231528653	231566524	-0.256698369	PASS
TSNAX-DI	1	231528653	231819244	-0.256698369	PASS
TSNAXIP1	16	67806765	67832148	-0.371357732	PASS
TSPAN1	1	46175073	46185958	0.033763446	PASS
TSPAN10	17	81637171	81648749	0.088516311	PASS
TSPAN11	12	30926428	30996599	0.362961408	suppress_segment_too_large
TSPAN12	7	120787320	120858402	-0.388946609	PASS
TSPAN13	7	16753535	16784536	-0.69513118	PASS
TSPAN14	10	80454166	80533123	0.072405807	PASS
TSPAN15	10	69451473	69507669	0.072405807	PASS
TSPAN16	19	11296139	11326996	0.093487731	suppress_segment_too_large
TSPAN17	5	176647387	176659054	-0.150979337	PASS
TSPAN18	11	44726465	44932421	0.117376172	PASS
TSPAN19	12	85014311	85036277	0.202141228	PASS
TSPAN2	1	115048011	115089500	0.033763446	PASS
TSPAN3	15	77041404	77083984	-0.697600509	PASS
TSPAN31	12	57738013	57750211	-0.202191512	PASS
TSPAN32	11	2301997	2318200	-0.333835828	PASS
TSPAN33	7	129144892	129169697	-0.388946609	PASS
TSPAN4	11	842808	867116	-0.333835828	PASS
TSPAN5	4	98470367	98658629	-0.011382299	PASS
TSPAN6	23	100627109	100639991	-0.012567603	PASS
TSPAN7	23	38561370	38688920	-0.012567603	PASS
TSPAN8	12	71125085	71441898	-0.202191512	PASS
TSPAN9	12	3077355	3286564	-0.086128028	PASS
TSPEAR	21	44497892	44711580	-0.064425456	suppress_segment_too_large
TSPO	22	43151514	43163242	-0.575930959	PASS
TSPO2	6	41042554	41044337	0.048820648	PASS
TSPOAP1	17	58301228	58328760	0.088516311	PASS
TSPYL1	6	116276578	116279903	-0.368590549	PASS
TSPYL2	23	53082367	53088540	-0.012567603	PASS
TSPYL4	6	116249961	116254140	-0.368590549	PASS
TSPYL5	8	97273474	97277964	0.279445683	PASS
TSPYL6	2	54253184	54256272	0.040498426	PASS
TSR1	17	2322503	2337507	0.128406487	PASS
TSR2	23	54440401	54445487	-0.012567603	PASS
TSR3	16	1349240	1351911	0.069936844	PASS
TSSC4	11	2400488	2403878	-0.333835828	PASS
TSSK1B	5	113432554	113435031	-0.293443042	PASS
TSSK2	22	19130808	19132623	-0.575930959	PASS
TSSK3	1	32351521	32364312	0.033763446	PASS
TSSK4	14	24205697	24208362	0.060212819	PASS
TSSK6	19	19512418	19515685	0.093487731	suppress_segment_too_large
TST	22	37010859	37020183	-0.575930959	PASS
TSTA3	8	143612618	143618048	0.307788765	PASS
TSTD1	1	161037631	161038990	-0.027073548	PASS

TSTD2	9	97600080	97633575	0.365190713	suppress_segment_too_large
TSTD3	6	99520693	99531918	-0.368590549	PASS
TTBK1	6	43243680	43288259	0.048820648	PASS
TTBK2	15	42738734	42920809	-0.396255771	PASS
TTC1	5	160009113	160065543	-0.150979337	PASS
TTC12	11	113314529	113383544	-0.356188624	PASS
TTC13	1	230906243	230978875	-0.256698369	PASS
TTC14	3	180602130	180617828	0.318278996	suppress_segment_too_large
TTC16	9	127716066	127731600	0.365190713	suppress_segment_too_large
TTC17	11	43358932	43494933	0.117376172	PASS
TTC19	17	15999380	16045015	0.024610076	PASS
TTC21A	3	39107704	39138903	-0.234617007	PASS
TTC21B	2	165857475	165953843	0.039726562	PASS
TTC22	1	54779712	54801267	0.033763446	PASS
TTC23	15	99136323	99251223	-0.697600509	PASS
TTC23L	5	34838833	34899456	0.055007813	PASS
TTC24	1	156579727	156586770	0.103015788	PASS
TTC25	17	41930635	41965651	0.060555011	PASS
TTC26	7	139133744	139191986	-0.388946609	PASS
TTC27	2	32628032	32821051	0.040498426	PASS
TTC28	22	27978014	28679865	-0.575930959	PASS
TTC29	4	146706638	146945882	-0.011382299	PASS
TTC3	21	37073226	37203112	-0.064425456	suppress_segment_too_large
TTC30A	2	177612992	177618966	0.039726562	PASS
TTC30B	2	177548998	177553014	0.039726562	PASS
TTC31	2	74483073	74494886	-0.372959126	PASS
TTC32	2	19896643	19901986	0.040498426	PASS
TTC33	5	40512333	40755975	-0.293443042	PASS
TTC34	1	2635976	2801717	0.373964873	suppress_segment_too_large
TTC36	11	118527472	118531197	-0.356188624	PASS
TTC37	5	95461755	95555007	-0.293443042	PASS
TTC38	22	46267961	46294008	-0.808211634	PASS
TTC39A	1	51287258	51345116	0.033763446	PASS
TTC39B	9	15163622	15307360	-0.310444659	PASS
TTC39C	18	23992773	24135610	-0.376397843	PASS
TTC4	1	54715822	54742657	0.033763446	PASS
TTC5	14	20256558	20305994	0.060212819	PASS
TTC6	14	37595847	38041442	0.060212819	PASS
TTC7A	2	46916157	47076137	0.040498426	PASS
TTC7B	14	90524564	90816479	-0.192197564	PASS
TTC8	14	88824153	88881078	-0.192197564	PASS
TTC9	14	70641787	70675360	0.060212819	PASS
TTC9B	19	40216058	40218399	0.093487731	suppress_segment_too_large
TTC9C	11	62728069	62740293	0.182439925	suppress_segment_too_large
TTF1	9	132375548	132406851	0.365190713	suppress_segment_too_large
TTF2	1	117060303	117107453	0.033763446	PASS

TTI1	20	37983007	38033468	-0.168668583	PASS
TTI2	8	33473386	33513601	-0.345962679	PASS
TTK	6	80003887	80042527	-0.368590549	PASS
TTL	2	112482154	112541739	-0.010901494	PASS
TTLL1	22	43039644	43089428	-0.575930959	PASS
TTLL10	1	1173884	1197935	0.373964873	suppress_segment_too_large
TTLL11	9	121821928	122093606	0.365190713	suppress_segment_too_large
TTLL12	22	43166622	43187133	-0.575930959	PASS
TTLL13P	15	90249530	90265482	-0.697600509	PASS
TTLL2	6	167325071	167359503	-0.035448111	PASS
TTLL3	3	9808086	9855138	0.311018244	suppress_segment_too_large
TTLL4	2	218710845	218755416	0.025928102	PASS
TTLL5	14	75633625	75955078	-0.192197564	PASS
TTLL6	17	48762235	48817214	0.088516311	PASS
TTLL7	1	83865028	83999150	0.033763446	PASS
TTLL8	22	50015123	50056935	-0.808211634	PASS
TTLL9	20	31870702	31944963	-0.168668583	PASS
TTN	2	178525989	178830802	0.039726562	PASS
TTPA	8	63048553	63086053	-0.201142258	PASS
TTPAL	20	44475886	44494603	-0.168668583	PASS
TTR	18	31557010	31599021	-0.376397843	PASS
TTYH1	19	54415219	54436900	-0.146906334	PASS
TTYH2	17	74213514	74262020	0.088516311	PASS
TTYH3	7	2631951	2664802	-0.69513118	PASS
TUB	11	8019244	8106112	-0.405444717	PASS
TUBA1A	12	49184796	49189324	-0.202191512	PASS
TUBA1B	12	49127782	49131397	-0.202191512	PASS
TUBA1C	12	49188736	49274603	-0.202191512	PASS
TUBA3C	13	19173770	19181852	-0.390786075	PASS
TUBA3D	2	131476093	131482934	-0.475215623	PASS
TUBA3E	2	130191743	130198461	-0.475215623	PASS
TUBA4A	2	219249711	219278170	0.025928102	PASS
TUBA4B	2	219253243	219272188	0.025928102	PASS
TUBA8	22	18110331	18146554	-0.575930959	PASS
TUBAL3	10	5393098	5404830	0.039811807	PASS
TUBB	6	30720201	30725426	0.048820648	PASS
TUBB1	20	59019254	59026654	-0.168668583	PASS
TUBB2A	6	3153669	3157526	0.048820648	PASS
TUBB2B	6	3224261	3231730	0.048820648	PASS
TUBB3	16	89921392	89938761	-0.371357732	PASS
TUBB4A	19	6494319	6502848	0.079632875	PASS
TUBB4B	9	137241213	137243707	0.365190713	suppress_segment_too_large
TUBB6	18	12307669	12344320	-0.052305056	suppress_segment_too_large
TUBB8	10	46892	74163	0.039811807	PASS
TUBB8P12	18	47390	49557	-0.052305056	suppress_segment_too_large
TUBD1	17	59859482	59892945	0.088516311	PASS

TUBE1	6	112070777	112087529	-0.368590549	PASS
TUBG1	17	42609676	42615234	0.088516311	PASS
TUBG2	17	42659305	42667006	0.088516311	PASS
TUBGCP2	10	133278630	133312337	0.063874692	PASS
TUBGCP3	13	112485005	112588205	-0.390786075	PASS
TUBGCP4	15	43369221	43409771	-0.396255771	PASS
TUBGCP5	15	22983192	23039673	-0.396255771	PASS
TUBGCP6	22	50217689	50244992	-0.808211634	PASS
TUFM	16	28842411	28846408	0.069936844	PASS
TUFT1	1	151540305	151583583	0.103015788	PASS
TULP1	6	35497874	35512938	0.048820648	PASS
TULP2	19	48880965	48898733	0.14996833	PASS
TULP3	12	2877223	2941140	-0.086128028	PASS
TULP4	6	158232236	158511828	-0.035448111	PASS
TUNAR	14	95876392	95925571	-0.192197564	PASS
TUSC1	9	25676389	25678440	-0.310444659	PASS
TUSC2	3	50320027	50328251	-0.234617007	PASS
TUSC3	8	15417215	15766649	-0.345962679	PASS
TUT1	11	62575045	62592177	0.182439925	suppress_segment_too_large
TUT4	1	52408282	52553487	0.033763446	PASS
TUT7	9	86287733	86354454	0.365190713	suppress_segment_too_large
TVP23A	16	10760919	10818794	0.069936844	PASS
TVP23B	17	18780995	18806714	0.024610076	PASS
TVP23C	17	15502264	15563595	-0.139031004	PASS
TVP23C-C	17	15436021	15563561	-0.139031004	PASS
TWF1	12	43793723	43806375	-0.202191512	PASS
TWF2	3	52228610	52239260	-0.234617007	PASS
TWIST1	7	19020991	19117672	-0.69513118	PASS
TWIST2	2	238848032	238910543	0.025928102	PASS
TWISTNB	7	19695462	19709087	-0.69513118	PASS
TWNK	10	100987367	100994401	-0.367947924	PASS
TWSG1	18	9334767	9402420	-0.052305056	suppress_segment_too_large
TXK	4	48066393	48134256	-0.011382299	PASS
TXLNA	1	32179686	32198285	0.033763446	PASS
TXLNB	6	139240061	139292139	-0.035448111	PASS
TXLNG	23	16786427	16844519	-0.012567603	PASS
TXN	9	110243811	110256640	0.365190713	suppress_segment_too_large
TXN2	22	36467036	36482030	-0.575930959	PASS
TXNDC11	16	11679080	11742878	0.069936844	PASS
TXNDC12	1	52020131	52056171	0.033763446	PASS
TXNDC15	5	134873803	134901525	-0.293443042	PASS
TXNDC16	14	52430590	52552522	0.060212819	PASS
TXNDC17	17	6640758	6644541	0.128406487	PASS
TXNDC2	18	9885726	9889275	-0.052305056	suppress_segment_too_large
TXNDC5	6	7881517	7910814	0.048820648	PASS
TXNDC8	9	110303521	110337884	0.365190713	suppress_segment_too_large

TXNDC9	2	99318982	99340702	0.048238121	PASS
TXNIP	1	145992435	145996600	-0.157385092	PASS
TXNL1	18	56597208	56651600	-0.376397843	PASS
TXNL4A	18	79970811	80033949	-0.376397843	PASS
TXNL4B	16	72044289	72094431	-0.371357732	PASS
TXNRD1	12	104215779	104350305	0.202141228	PASS
TXNRD2	22	19875517	19941992	-0.575930959	PASS
TXNRD3	3	126571779	126655155	0.313454204	suppress_segment_too_large
TYK2	19	10350529	10380676	0.093487731	suppress_segment_too_large
TYMP	22	50525752	50530056	-0.808211634	PASS
TYMS	18	657604	673578	-0.052305056	suppress_segment_too_large
TYR	11	89177452	89295759	0.062969153	PASS
TYRO3	15	41557675	41583586	-0.396255771	PASS
TYROBP	19	35904401	35908295	0.093487731	suppress_segment_too_large
TYRP1	9	12685439	12710290	-0.310444659	PASS
TYSND1	10	70137981	70146676	0.072405807	PASS
TYW1	7	66995173	67239519	-0.750061359	PASS
TYW1B	7	72558744	72828198	-0.262778904	PASS
TYW3	1	74733152	74766678	0.033763446	PASS
TYW5	2	199929975	199955736	0.025928102	PASS
U2AF1	21	43092956	43107587	-0.064425456	suppress_segment_too_large
U2AF1L4	19	35742464	35745445	0.093487731	suppress_segment_too_large
U2AF1L5	21	6484623	6499261	-0.304975024	PASS
U2AF2	19	55654146	55674715	0.121336758	PASS
U2SURP	3	142964497	143060546	0.318278996	suppress_segment_too_large
U52112.1	23	153872221	153909223	-0.012567603	PASS
UACA	15	70654554	70763593	-0.697600509	PASS
UAP1	1	162561506	162599842	-0.027073548	PASS
UAP1L1	9	137077501	137084539	0.365190713	suppress_segment_too_large
UBA1	23	47190861	47215128	-0.012567603	PASS
UBA2	19	34428352	34471251	0.093487731	suppress_segment_too_large
UBA3	3	69054730	69080408	-0.234617007	PASS
UBA5	3	132654446	132678097	0.313454204	suppress_segment_too_large
UBA52	19	18571730	18577550	0.093487731	suppress_segment_too_large
UBA6	4	67612652	67701179	-0.011382299	PASS
UBA7	3	49805207	49813946	-0.234617007	PASS
UBAC1	9	135932969	135961380	0.365190713	suppress_segment_too_large
UBAC2	13	99200774	99386434	-0.390786075	PASS
UBALD1	16	4608883	4615027	0.069936844	PASS
UBALD2	17	76265202	76271299	0.088516311	PASS
UBAP1	9	34179005	34252523	-0.310444659	PASS
UBAP1L	15	65092770	65115197	-0.697600509	PASS
UBAP2	9	33921693	34048949	-0.310444659	PASS
UBAP2L	1	154220179	154271510	0.103015788	PASS
UBASH3A	21	42403447	42447681	-0.064425456	suppress_segment_too_large
UBASH3B	11	122655675	122814473	-0.356188624	PASS

UBB	17	16380798	16382745	0.024610076	PASS
UBC	12	124911604	124917368	0.202141228	PASS
UBD	6	29555515	29559925	0.048820648	PASS
UBE2A	23	119574467	119591083	-0.012567603	PASS
UBE2B	5	134371179	134391992	-0.293443042	PASS
UBE2C	20	45812576	45816957	-0.168668583	PASS
UBE2D1	10	58334975	58370753	0.072405807	PASS
UBE2D2	5	139526431	139628433	-0.293443042	PASS
UBE2D3	4	102794383	102868896	-0.011382299	PASS
UBE2D4	7	43926438	43956136	-0.69513118	PASS
UBE2E1	3	23805903	23891316	0.311018244	suppress_segment_too_large
UBE2E2	3	23203020	23591793	0.311018244	suppress_segment_too_large
UBE2E3	2	180967248	181076585	0.039726562	PASS
UBE2F	2	237966827	238042782	0.025928102	PASS
UBE2F-SC	2	237967014	238099412	0.025928102	PASS
UBE2G1	17	4269259	4366628	0.128406487	PASS
UBE2G2	21	44768580	44802019	-0.064425456	suppress_segment_too_large
UBE2H	7	129830732	129952949	-0.388946609	PASS
UBE2I	16	1308880	1327018	0.069936844	PASS
UBE2J1	6	89326625	89352848	-0.368590549	PASS
UBE2J2	1	1253909	1273885	0.373964873	suppress_segment_too_large
UBE2K	4	39698044	39782792	-0.011382299	PASS
UBE2L3	22	21549447	21624034	-0.575930959	PASS
UBE2L5	13	30422488	30428616	-0.390786075	PASS
UBE2L6	11	57551656	57568284	-0.129266491	PASS
UBE2M	19	58555712	58558960	0.063781462	PASS
UBE2N	12	93405673	93442262	0.202141228	PASS
UBE2O	17	76389451	76453206	0.088516311	PASS
UBE2Q1	1	154548577	154559028	0.103015788	PASS
UBE2Q2	15	75843285	75901078	-0.697600509	PASS
UBE2Q2L	15	84172490	84182234	-0.697600509	PASS
UBE2QL1	5	6448623	6494909	0.055007813	PASS
UBE2R2	9	33817567	33920404	-0.310444659	PASS
UBE2S	19	55399745	55407777	0.121336758	PASS
UBE2T	1	202331657	202341980	-0.256698369	PASS
UBE2U	1	64203627	64267368	0.033763446	PASS
UBE2V1	20	50081124	50115959	-0.168668583	PASS
UBE2V2	8	48008400	48064708	-0.201142258	PASS
UBE2W	8	73780097	73878910	-0.201142258	PASS
UBE2Z	17	48908369	48929056	0.088516311	PASS
UBE3A	15	25333728	25439056	-0.396255771	PASS
UBE3B	12	109477402	109536705	0.202141228	PASS
UBE3C	7	157138913	157269372	-0.411415677	PASS
UBE3D	6	82892398	83065841	-0.368590549	PASS
UBE4A	11	118359585	118399211	-0.356188624	PASS
UBE4B	1	10032832	10181239	0.373964873	suppress_segment_too_large

UBFD1	16	23557362	23574389	0.069936844	PASS
UBIAD1	1	11273206	11296049	0.373964873	suppress_segment_too_large
UBL3	13	29764371	29850684	-0.390786075	PASS
UBL4A	23	154483717	154486670	-0.012567603	PASS
UBL4B	1	110112468	110113945	0.033763446	PASS
UBL5	19	9827892	9830115	0.093487731	suppress_segment_too_large
UBL7	15	74445977	74461182	-0.697600509	PASS
UBLCP1	5	159263081	159286040	-0.150979337	PASS
UBN1	16	4846665	4882360	0.069936844	PASS
UBN2	7	139230356	139308236	-0.388946609	PASS
UBOX5	20	3107573	3160196	-0.168668583	PASS
UBP1	3	33388336	33441371	0.311018244	suppress_segment_too_large
UBQLN1	9	83659963	83708203	0.365190713	suppress_segment_too_large
UBQLN2	23	56563639	56567868	-0.012567603	PASS
UBQLN3	11	5507300	5509985	-0.957525224	PASS
UBQLN4	1	156035301	156053794	0.103015788	PASS
UBQLNL	11	5514393	5516705	-0.957525224	PASS
UBR1	15	42942897	43106113	-0.396255771	PASS
UBR2	6	42564062	42693504	0.048820648	PASS
UBR3	2	169827458	170084131	0.039726562	PASS
UBR4	1	19074506	19210276	0.033763446	PASS
UBR5	8	102253012	102412841	0.279445683	PASS
UBR7	14	93207056	93229215	-0.192197564	PASS
UBTD1	10	97498868	97571209	-0.367947924	PASS
UBTD2	5	172209640	172284071	-0.150979337	PASS
UBTF	17	44205033	44221626	0.088516311	PASS
UBTFL1	11	90085950	90087131	0.062969153	PASS
UBXN1	11	62676498	62679117	0.182439925	suppress_segment_too_large
UBXN10	1	20186085	20196048	0.033763446	PASS
UBXN11	1	26281328	26318363	0.033763446	PASS
UBXN2A	2	23927285	24004909	0.040498426	PASS
UBXN2B	8	58411264	58451501	-0.201142258	PASS
UBXN4	2	135741619	135785055	-0.475215623	PASS
UBXN6	19	4444999	4457822	0.079632875	PASS
UBXN7	3	196347662	196432474	0.326834516	PASS
UBXN8	8	30732247	30767006	-0.345962679	PASS
UCHL1	4	41256413	41268455	-0.011382299	PASS
UCHL3	13	75549480	75606020	-0.390786075	PASS
UCHL5	1	193012250	193060080	-0.027073548	PASS
UCK1	9	131523801	131531268	0.365190713	suppress_segment_too_large
UCK2	1	165827531	165911618	-0.027073548	PASS
UCKL1	20	63939829	63956415	-0.168668583	PASS
UCMA	10	13221767	13234334	0.039811807	PASS
UCN	2	27307400	27308445	0.040498426	PASS
UCN2	3	48561727	48563773	-0.234617007	PASS
UCN3	10	5365009	5374692	0.039811807	PASS

UCP1	4	140559434	140568805	-0.011382299	PASS
UCP2	11	73974667	73983307	0.062969153	PASS
UCP3	11	74000281	74009435	0.062969153	PASS
UEVLD	11	18529609	18588747	-0.405444717	PASS
UFC1	1	161152776	161158856	-0.027073548	PASS
UFD1	22	19449910	19479215	-0.575930959	PASS
UFL1	6	96521595	96555276	-0.368590549	PASS
UFM1	13	38349849	38363619	-0.390786075	PASS
UFSP1	7	100888723	100889718	-0.262778904	PASS
UFSP2	4	185399540	185425985	-0.462744716	PASS
UGCG	9	111896766	111935369	0.365190713	suppress_segment_too_large
UGDH	4	39498755	39528311	-0.011382299	PASS
UGGT1	2	128091200	128195677	-0.475215623	PASS
UGGT2	13	95801580	96053482	-0.390786075	PASS
UGP2	2	63840940	63891562	-0.372959126	PASS
UGT1A1	2	233760248	233773299	0.025928102	PASS
UGT1A10	2	233636454	233773305	0.025928102	PASS
UGT1A3	2	233729108	233773299	0.025928102	PASS
UGT1A4	2	233718778	233773299	0.025928102	PASS
UGT1A5	2	233712992	233773299	0.025928102	PASS
UGT1A6	2	233691607	233773300	0.025928102	PASS
UGT1A7	2	233681938	233773299	0.025928102	PASS
UGT1A8	2	233617645	233773310	0.025928102	PASS
UGT1A9	2	233671853	233773300	0.025928102	PASS
UGT2A1	4	69588417	69653249	-0.011382299	PASS
UGT2A2	4	69589309	69639642	-0.011382299	PASS
UGT2A3	4	68928463	68951791	-0.011382299	PASS
UGT2B10	4	68815993	68831196	-0.011382299	PASS
UGT2B11	4	69199951	69214731	-0.011382299	PASS
UGT2B15	4	68646630	68670628	-0.011382299	PASS
UGT2B17	4	68537184	68568527	-0.011382299	PASS
UGT2B28	4	69280499	69295050	-0.011382299	PASS
UGT2B4	4	69480165	69526014	-0.011382299	PASS
UGT2B7	4	69051363	69112987	-0.011382299	PASS
UGT3A1	5	35951010	36001028	0.055007813	PASS
UGT3A2	5	36035017	36071358	0.055007813	PASS
UGT8	4	114598455	114678224	-0.011382299	PASS
UHMK1	1	162497251	162529629	-0.027073548	PASS
UHRF1	19	4903080	4962154	0.079632875	PASS
UHRF1BP	6	34792015	34883138	0.048820648	PASS
UHRF1BP	12	100028455	100142848	0.202141228	PASS
UHRF2	9	6413151	6507054	-0.310444659	PASS
UIMC1	5	176905005	177022633	-0.150979337	PASS
ULBP1	6	149964007	149973710	-0.035448111	PASS
ULBP2	6	149942000	149949235	-0.035448111	PASS
ULBP3	6	150063150	150069095	-0.035448111	PASS

ULK1	12	131894651	131923167	0.270848837	PASS
ULK2	17	19770829	19867936	0.024610076	PASS
ULK3	15	74836116	74843346	-0.697600509	PASS
ULK4	3	41246599	41962430	-0.234617007	PASS
UMAD1	7	7640711	7968020	-0.69513118	PASS
UMOD	16	20333052	20356301	0.069936844	PASS
UMODL1	21	42062959	42143453	-0.064425456	suppress_segment_too_large
UMPS	3	124730366	124749273	0.313454204	suppress_segment_too_large
UNC119	17	28546707	28552668	0.060555011	PASS
UNC119B	12	120710435	120723640	0.202141228	PASS
UNC13A	19	17601328	17688365	0.093487731	suppress_segment_too_large
UNC13B	9	35161992	35405338	-0.310444659	PASS
UNC13C	15	53978201	54633414	-0.697600509	PASS
UNC13D	17	75827225	75844717	0.088516311	PASS
UNC45A	15	90930180	90954093	-0.697600509	PASS
UNC45B	17	35147817	35189345	0.060555011	PASS
UNC50	2	98608579	98618515	0.048238121	PASS
UNC5A	5	176810477	176880898	-0.150979337	PASS
UNC5B	10	71212570	71302864	0.072405807	PASS
UNC5C	4	95162504	95549206	-0.011382299	PASS
UNC5CL	6	41026911	41039217	0.048820648	PASS
UNC5D	8	35235457	35796550	-0.345962679	PASS
UNC79	14	93333219	93707876	-0.192197564	PASS
UNC80	2	209771993	209999300	0.025928102	PASS
UNC93A	6	167271169	167316019	-0.035448111	PASS
UNC93B1	11	67991104	68004982	0.182439925	suppress_segment_too_large
UNCX	7	1232907	1237318	-0.69513118	PASS
UNG	12	109097574	109110992	0.202141228	PASS
UNK	17	75784771	75825799	0.088516311	PASS
UNKL	16	1363205	1414751	0.069936844	PASS
UPB1	22	24494107	24528390	-0.575930959	PASS
UPF1	19	18831938	18868236	0.093487731	suppress_segment_too_large
UPF2	10	11920022	12043170	0.039811807	PASS
UPF3A	13	114281584	114305817	-0.390786075	PASS
UPF3B	23	119805311	119852998	-0.012567603	PASS
UPK1A	19	35666516	35678483	0.093487731	suppress_segment_too_large
UPK1B	3	119173517	119205153	0.313454204	suppress_segment_too_large
UPK2	11	118925164	118958559	-0.356188624	PASS
UPK3A	22	45284982	45295874	-0.808211634	PASS
UPK3B	7	76510428	76516521	-0.262778904	PASS
UPK3BL1	7	102637025	102642791	-0.388946609	PASS
UPP1	7	48088628	48108733	-0.69513118	PASS
UPP2	2	157876702	158136154	0.039726562	PASS
UPRT	23	75274085	75304600	-0.012567603	PASS
UQCC1	20	35302566	35412141	-0.168668583	PASS
UQCC2	6	33694293	33711727	0.048820648	PASS

UQCC3	11	62670273	62673687	0.182439925	suppress_segment_too_large
UQCR10	22	29767369	29770413	-0.575930959	PASS
UQCR11	19	1597172	1605490	0.079632875	PASS
UQCRB	8	96225920	96235634	0.279445683	PASS
UQCRC1	3	48599002	48610976	-0.234617007	PASS
UQCRC2	16	21952660	21983660	0.069936844	PASS
UQCRFS1	19	29205321	29213541	0.093487731	suppress_segment_too_large
UQCRH	1	46303631	46316776	0.033763446	PASS
UQCRHL	1	15807169	15809348	0.033763446	PASS
UQCRQ	5	132866560	132868031	-0.293443042	PASS
URAD	13	27977714	27988654	-0.390786075	PASS
URB1	21	32311018	32393026	0.12860881	suppress_segment_too_large
URB2	1	229626234	229660199	-0.256698369	PASS
URGCP	7	43875894	43926411	-0.69513118	PASS
URGCP-M	7	43866558	43906589	-0.69513118	PASS
URI1	19	29923644	30016608	0.093487731	suppress_segment_too_large
URM1	9	128371319	128392016	0.365190713	suppress_segment_too_large
UROC1	3	126481281	126517773	0.313454204	suppress_segment_too_large
UROD	1	45012147	45015575	0.033763446	PASS
UROS	10	125784980	125823285	0.063874692	PASS
USB1	16	57999546	58021618	-0.371357732	PASS
USE1	19	17215346	17219829	0.093487731	suppress_segment_too_large
USF1	1	161039251	161045977	-0.027073548	PASS
USF2	19	35268978	35279821	0.093487731	suppress_segment_too_large
USF3	3	113648385	113696646	0.313454204	suppress_segment_too_large
USH1C	11	17493895	17544416	-0.405444717	PASS
USH1G	17	74916084	74923256	0.088516311	PASS
USH2A	1	215622894	216423396	-0.256698369	PASS
USHBP1	19	17249176	17282786	0.093487731	suppress_segment_too_large
USO1	4	75724593	75814286	-0.011382299	PASS
USP1	1	62436297	62451804	0.033763446	PASS
USP10	16	84699978	84779922	-0.371357732	PASS
USP11	23	47232690	47248328	-0.012567603	PASS
USP12	13	27066142	27171896	-0.390786075	PASS
USP13	3	179652755	179789401	0.318278996	suppress_segment_too_large
USP14	18	158383	214629	-0.052305056	suppress_segment_too_large
USP15	12	62260338	62417431	-0.202191512	PASS
USP16	21	29024629	29054488	0.12860881	suppress_segment_too_large
USP17L1	8	7332387	7333979	-0.345962679	PASS
USP17L10	4	9210657	9212608	0.279089364	PASS
USP17L17	4	9243879	9245830	0.279089364	PASS
USP17L18	4	9248630	9250581	0.279089364	PASS
USP17L2	8	12137168	12139077	-0.345962679	PASS
USP17L22	4	9267619	9269570	0.279089364	PASS
USP17L4	8	7337115	7338707	-0.345962679	PASS
USP17L7	8	12132417	12134438	-0.345962679	PASS

USP18	22	18149899	18177397	-0.575930959	PASS
USP19	3	49108046	49120938	-0.234617007	PASS
USP2	11	119355215	119381726	-0.356188624	PASS
USP20	9	129834698	129881838	0.365190713	suppress_segment_too_large
USP21	1	161159450	161165723	-0.027073548	PASS
USP22	17	20999593	21043760	0.024610076	PASS
USP24	1	55066359	55215113	0.033763446	PASS
USP25	21	15730025	15880069	0.12860881	suppress_segment_too_large
USP26	23	133024631	133097109	-0.012567603	PASS
USP27X	23	49879948	49882565	-0.012567603	PASS
USP28	11	113797874	113875570	-0.356188624	PASS
USP29	19	57119138	57131926	-0.180829161	PASS
USP3	15	63504511	63594640	-0.697600509	PASS
USP30	12	109023089	109088026	0.202141228	PASS
USP31	16	23061406	23149270	0.069936844	PASS
USP32	17	60179094	60422470	0.088516311	PASS
USP33	1	77695987	77759852	0.033763446	PASS
USP34	2	61187463	61470769	-0.372959126	PASS
USP35	11	78188812	78214711	0.062969153	PASS
USP36	17	78787381	78841441	0.088516311	PASS
USP37	2	218450251	218568361	0.025928102	PASS
USP38	4	143184917	143223830	-0.011382299	PASS
USP39	2	85602856	85649282	0.066915641	PASS
USP4	3	49277831	49340712	-0.234617007	PASS
USP40	2	233475520	233566782	0.025928102	PASS
USP41	22	20350578	20390758	-0.575930959	PASS
USP42	7	6104884	6161564	-0.69513118	PASS
USP43	17	9644698	9729691	-0.139031004	PASS
USP44	12	95516560	95551490	0.202141228	PASS
USP45	6	99432379	99521728	-0.368590549	PASS
USP46	4	52590972	52659335	-0.011382299	PASS
USP47	11	11841423	11959323	-0.405444717	PASS
USP48	1	21678298	21783606	0.033763446	PASS
USP49	6	41789896	41895361	0.048820648	PASS
USP5	12	6852128	6866632	-0.086128028	PASS
USP50	15	50500562	50546708	-0.396255771	PASS
USP51	23	55484616	55489202	-0.012567603	PASS
USP53	4	119212587	119295517	-0.011382299	PASS
USP54	10	73497538	73625953	0.072405807	PASS
USP6	17	5116438	5175034	0.128406487	PASS
USP6NL	10	11453946	11611754	0.039811807	PASS
USP7	16	8892094	8964514	0.069936844	PASS
USP8	15	50424380	50514419	-0.396255771	PASS
USP9X	23	41085635	41236579	-0.012567603	PASS
USPL1	13	30617693	30660770	-0.390786075	PASS
UST	6	148747328	149076990	-0.035448111	PASS

UTF1	10	133230274	133231558	0.063874692	PASS
UTP11	1	38009258	38024824	0.033763446	PASS
UTP14A	23	129906121	129929761	-0.012567603	PASS
UTP14C	13	52024691	52033600	-0.390786075	PASS
UTP15	5	73565443	73583377	-0.293443042	PASS
UTP18	17	51260528	51297936	0.088516311	PASS
UTP20	12	101280109	101386616	0.202141228	PASS
UTP23	8	116766503	116849463	0.279445683	PASS
UTP25	1	209828007	209857565	-0.256698369	PASS
UTP3	4	70688479	70690551	-0.011382299	PASS
UTP4	16	69131291	69231130	-0.371357732	PASS
UTP6	17	31860899	31901765	0.060555011	PASS
UTRN	6	144285701	144853034	-0.035448111	PASS
UTS2	1	7843083	7853512	0.373964873	suppress_segment_too_large
UTS2B	3	191267168	191330536	-0.627320105	PASS
UTS2R	17	82374230	82375586	0.088516311	PASS
UVRAG	11	75815167	76143195	0.062969153	PASS
UVSSA	4	1347266	1395992	0.279089364	PASS
UXS1	2	106093303	106194339	-0.532032081	PASS
UXT	23	47651798	47659161	-0.012567603	PASS
VAC14	16	70687439	70801161	-0.371357732	PASS
VAMP1	12	6462237	6470987	-0.086128028	PASS
VAMP2	17	8159149	8163546	0.128406487	PASS
VAMP3	1	7771269	7781432	0.373964873	suppress_segment_too_large
VAMP4	1	171700160	171742247	-0.027073548	PASS
VAMP5	2	85584408	85593412	0.066915641	PASS
VAMP7	23	155881293	155943769	-0.012567603	PASS
VAMP8	2	85561562	85582031	0.066915641	PASS
VANGL1	1	115641953	115698224	0.033763446	PASS
VANGL2	1	160400586	160428678	-0.027073548	PASS
VAPA	18	9914002	9960021	-0.052305056	suppress_segment_too_large
VAPB	20	58389122	58451101	-0.168668583	PASS
VARS	6	31777518	31795953	0.048820648	PASS
VARS2	6	30908242	30926459	0.048820648	PASS
VASH1	14	76762189	76783015	-0.192197564	PASS
VASH2	1	212950520	212992037	-0.256698369	PASS
VASN	16	4371848	4383528	0.069936844	PASS
VASP	19	45506579	45526983	0.14996833	PASS
VAT1	17	43014605	43025123	0.088516311	PASS
VAT1L	16	77788530	77980107	-0.371357732	PASS
VAV1	19	6772714	6857366	0.079632875	PASS
VAV2	9	133761894	133992604	0.365190713	suppress_segment_too_large
VAV3	1	107571160	107965144	0.033763446	PASS
VAX1	10	117128521	117138301	0.063874692	PASS
VAX2	2	70900590	70965373	-0.372959126	PASS
VBP1	23	155197007	155239817	-0.012567603	PASS

VCAM1	1	100719742	100739045	0.033763446	PASS
VCAN	5	83471465	83582303	-0.293443042	PASS
VCL	10	73995193	74121363	0.072405807	PASS
VCP	9	35056064	35073249	-0.310444659	PASS
VCPIP1	8	66628487	66667217	-0.201142258	PASS
VCPKMT	14	50108632	50116600	0.060212819	PASS
VCX	23	7842262	7844143	-0.012567603	PASS
VCX2	23	8169944	8171267	-0.012567603	PASS
VCX3A	23	6533618	6535118	-0.012567603	PASS
VCX3B	23	8464830	8466510	-0.012567603	PASS
VDAC1	5	133971915	134005133	-0.293443042	PASS
VDAC2	10	75210154	75231448	0.072405807	PASS
VDAC3	8	42391624	42405897	-0.201142258	PASS
VDR	12	47841537	47943048	-0.202191512	PASS
VEGFA	6	43770184	43786487	0.048820648	PASS
VEGFB	11	64234538	64238793	0.182439925	suppress_segment_too_large
VEGFC	4	176683538	176792727	-0.011382299	PASS
VEGFD	23	15345591	15384376	-0.012567603	PASS
VENTX	10	133237404	133241929	0.063874692	PASS
VEPH1	3	157259742	157533619	0.318278996	suppress_segment_too_large
VEZF1	17	57971547	57988259	0.088516311	PASS
VEZT	12	95217746	95302790	0.202141228	PASS
VGF	7	101162509	101165593	-0.388946609	PASS
VGLL1	23	136532152	136556807	-0.012567603	PASS
VGLL2	6	117265558	117273565	-0.368590549	PASS
VGLL3	3	86876388	86991119	0.313454204	suppress_segment_too_large
VGLL4	3	11556070	11771350	0.311018244	suppress_segment_too_large
VHL	3	10141008	10152220	0.311018244	suppress_segment_too_large
VHLL	1	156298624	156299299	0.103015788	PASS
VIL1	2	218419092	218453295	0.025928102	PASS
VILL	3	37988059	38007188	-0.234617007	PASS
VIM	10	17228259	17237593	0.039811807	PASS
VIP	6	152750798	152759765	-0.035448111	PASS
VIPAS39	14	77426675	77457952	-0.192197564	PASS
VIPR1	3	42489299	42537573	-0.234617007	PASS
VIPR2	7	159028175	159144957	-0.184834798	PASS
VIRMA	8	94487693	94553529	0.279445683	PASS
VIT	2	36696690	36814792	0.040498426	PASS
VKORC1	16	31090842	31095980	0.069936844	PASS
VKORC1L	7	65873166	65959563	-0.750061359	PASS
VLDLR	9	2621834	2660053	-0.310444659	PASS
VMA21	23	151396515	151409364	-0.012567603	PASS
VMAC	19	5904858	5910853	0.079632875	PASS
VMO1	17	4785285	4786433	0.128406487	PASS
VMP1	17	59707192	59842255	0.088516311	PASS
VN1R1	19	57454790	57457142	-0.180829161	PASS

VN1R2	19	53258292	53261837	0.206912349	PASS
VN1R4	19	53266676	53267723	0.206912349	PASS
VNN1	6	132681590	132714049	-0.458570262	PASS
VNN2	6	132743870	132763459	-0.458570262	PASS
VNN3	6	132722787	132734765	-0.458570262	PASS
VOPP1	7	55436056	55572988	-0.750061359	PASS
VPREB1	22	22244675	22245515	-0.575930959	PASS
VPREB3	22	23752743	23754468	-0.575930959	PASS
VPS11	11	119067692	119081978	-0.356188624	PASS
VPS13A	9	77177353	77421541	0.365190713	suppress_segment_too_large
VPS13B	8	99013266	99877580	0.279445683	PASS
VPS13C	15	61852389	62060473	-0.697600509	PASS
VPS13D	1	12230030	12512047	0.003932739	PASS
VPS16	20	2840703	2866732	-0.168668583	PASS
VPS18	15	40894430	40903975	-0.396255771	PASS
VPS25	17	42773436	42779599	0.088516311	PASS
VPS26A	10	69123512	69172861	0.072405807	PASS
VPS26B	11	134224645	134247792	-0.419612865	PASS
VPS26C	21	37223420	37267919	-0.064425456	suppress_segment_too_large
VPS28	8	144423601	144428563	0.307788765	PASS
VPS29	12	110491097	110502117	0.202141228	PASS
VPS33A	12	122229564	122266521	0.202141228	PASS
VPS33B	15	90998416	91022603	-0.697600509	PASS
VPS35	16	46656132	46689518	0.069936844	PASS
VPS35L	16	19555240	19706793	0.069936844	PASS
VPS36	13	52412602	52450628	-0.390786075	PASS
VPS37A	8	17246571	17302427	-0.345962679	PASS
VPS37B	12	122865328	122896444	0.202141228	PASS
VPS37C	11	61130256	61161617	0.182439925	suppress_segment_too_large
VPS37D	7	73667825	73672112	-0.262778904	PASS
VPS39	15	42158701	42208316	-0.396255771	PASS
VPS41	7	38722963	38932394	-0.69513118	PASS
VPS45	1	150067279	150145329	0.103015788	PASS
VPS4A	16	69311356	69326939	-0.371357732	PASS
VPS4B	18	63389190	63422483	-0.376397843	PASS
VPS50	7	93232340	93361121	-0.262778904	PASS
VPS51	11	65089324	65111860	0.182439925	suppress_segment_too_large
VPS52	6	33250272	33272047	0.048820648	PASS
VPS53	17	508668	721717	0.128406487	PASS
VPS54	2	63892146	64019072	-0.372959126	PASS
VPS72	1	151169987	151195321	0.103015788	PASS
VPS8	3	184812143	185052614	0.318278996	suppress_segment_too_large
VPS9D1	16	89707134	89720986	-0.371357732	PASS
VRK1	14	96797304	96931722	-0.192197564	PASS
VRK2	2	57907629	58159920	-0.372959126	PASS
VRK3	19	49976467	50025946	-0.016761391	PASS

VRTN	14	74303069	74360008	0.060212819	PASS
VSIG1	23	108044970	108079184	-0.012567603	PASS
VSIG10	12	118063593	118136026	0.202141228	PASS
VSIG10L	19	51331536	51342124	-0.016761391	PASS
VSIG2	11	124747472	124752238	-0.419612865	PASS
VSIG4	23	66021738	66040125	-0.012567603	PASS
VSIG8	1	159854316	159862657	-0.027073548	PASS
VSIR	10	71747559	71773498	0.072405807	PASS
VSNL1	2	17539126	17657018	0.040498426	PASS
VSTM1	19	54040825	54063953	0.206912349	PASS
VSTM2A	7	54542325	54571080	-0.750061359	PASS
VSTM2B	19	29526499	29564479	0.093487731	suppress_segment_too_large
VSTM2L	20	37903104	37945350	-0.168668583	PASS
VSTM4	10	49014245	49115509	-0.404852538	PASS
VSTM5	11	93818232	93850531	0.062969153	PASS
VSX1	20	25070885	25082365	-0.168668583	PASS
VSX2	14	74239472	74262738	0.060212819	PASS
VTA1	6	142147162	142224689	-0.035448111	PASS
VTCN1	1	117143587	117210960	0.033763446	PASS
VTI1A	10	112446998	112818744	0.063874692	PASS
VTI1B	14	67647075	67674831	0.060212819	PASS
VTN	17	28367276	28373091	0.060555011	PASS
VWA1	1	1434861	1442882	0.373964873	suppress_segment_too_large
VWA2	10	114239330	114291513	0.063874692	PASS
VWA3A	16	22092538	22156966	0.069936844	PASS
VWA3B	2	98087116	98313299	0.048238121	PASS
VWA5A	11	124115362	124147721	-0.949752196	PASS
VWA5B1	1	20290919	20354894	0.033763446	PASS
VWA5B2	3	184230429	184242329	0.318278996	suppress_segment_too_large
VWA7	6	31765590	31777294	0.048820648	PASS
VWA8	13	41566837	41961120	-0.390786075	PASS
VWC2	7	49773661	49921950	-2.348494016	PASS
VWC2L	2	214411065	214578959	0.025928102	PASS
VWCE	11	61258286	61295424	0.182439925	suppress_segment_too_large
VWDE	7	12330885	12403941	-0.69513118	PASS
VWF	12	5948874	6124770	-0.086128028	PASS
VXN	8	66493208	66518524	-0.201142258	PASS
WAC	10	28532493	28623112	0.039811807	PASS
WAPL	10	86435256	86521815	-0.292453993	PASS
WARS	14	100333788	100376805	-0.192197564	PASS
WARS2	1	119031216	119140671	-0.157385092	PASS
WAS	23	48676596	48691427	-0.012567603	PASS
WASF1	6	110099819	110180004	-0.368590549	PASS
WASF2	1	27404226	27490158	0.033763446	PASS
WASF3	13	26557703	26688948	-0.390786075	PASS
WASHC1	9	14521	73865	-0.310444659	PASS

WASHC2A	10	50067888	50133506	-0.404852538	PASS
WASHC2C	10	45727200	45792961	-0.404852538	PASS
WASHC3	12	102012927	102062149	0.202141228	PASS
WASHC4	12	105107324	105169134	0.202141228	PASS
WASHC5	8	125024260	125091840	0.279445683	PASS
WASL	7	123681935	123749067	-0.388946609	PASS
WBP1	2	74458329	74460891	-0.372959126	PASS
WBP11	12	14784579	14803540	0.362961408	suppress_segment_too_large
WBP1L	10	102743901	102834516	-0.367947924	PASS
WBP2	17	75845699	75856507	0.088516311	PASS
WBP2NL	22	41998725	42058456	-0.575930959	PASS
WBP4	13	41061274	41084006	-0.390786075	PASS
WDCP	2	24029340	24049575	0.040498426	PASS
WDFY1	2	223855716	223945387	0.025928102	PASS
WDFY2	13	51584455	51767707	-0.390786075	PASS
WDFY3	4	84669610	84966391	-0.011382299	PASS
WDFY4	10	48684876	48982956	-0.404852538	PASS
WDHD1	14	54938950	55027105	0.060212819	PASS
WDPCP	2	63121383	63827843	-0.372959126	PASS
WDR1	4	10074339	10116949	0.279089364	PASS
WDR11	10	120851175	120909524	0.063874692	PASS
WDR12	2	202874782	203014798	0.025928102	PASS
WDR13	23	48590042	48608867	-0.012567603	PASS
WDR17	4	176065834	176182818	-0.011382299	PASS
WDR18	19	984271	998438	0.079632875	PASS
WDR19	4	39182404	39285810	-0.011382299	PASS
WDR20	14	102139503	102224847	-0.192197564	PASS
WDR24	16	684622	690444	0.069936844	PASS
WDR25	14	100376418	100530303	-0.192197564	PASS
WDR26	1	224385143	224437033	-0.256698369	PASS
WDR27	6	169457212	169702067	-0.035448111	PASS
WDR3	1	117929720	117966542	0.033763446	PASS
WDR31	9	113313222	113340298	0.365190713	suppress_segment_too_large
WDR33	2	127701022	127811187	-0.475215623	PASS
WDR34	9	128633661	128656787	0.365190713	suppress_segment_too_large
WDR35	2	19910260	19990131	0.040498426	PASS
WDR36	5	111091716	111130502	-0.293443042	PASS
WDR37	10	1049538	1132384	0.039811807	PASS
WDR38	9	124853417	124857890	0.365190713	suppress_segment_too_large
WDR4	21	42843094	42879568	-0.064425456	suppress_segment_too_large
WDR41	5	77425970	77620611	-0.293443042	PASS
WDR43	2	28894643	28948222	0.040498426	PASS
WDR44	23	118346073	118449961	-0.012567603	PASS
WDR45	23	49071470	49101170	-0.012567603	PASS
WDR45B	17	82614562	82648553	0.088516311	PASS
WDR46	6	33279108	33289527	0.048820648	PASS

WDR47	1	108970214	109042113	0.033763446	PASS
WDR48	3	39051998	39096671	-0.234617007	PASS
WDR49	3	167478684	167653983	0.318278996	suppress_segment_too_large
WDR5	9	134135365	134159968	0.365190713	suppress_segment_too_large
WDR53	3	196554177	196568674	0.326834516	PASS
WDR54	2	74421678	74425755	-0.372959126	PASS
WDR55	5	140664676	140674124	-0.293443042	PASS
WDR59	16	74871367	75000173	-0.371357732	PASS
WDR5B	3	122412332	122416051	0.313454204	suppress_segment_too_large
WDR6	3	49007062	49015953	-0.234617007	PASS
WDR60	7	158856578	158956747	-0.184834798	PASS
WDR61	15	78277835	78299794	-0.697600509	PASS
WDR62	19	36054881	36105106	0.093487731	suppress_segment_too_large
WDR63	1	84999147	85133138	0.033763446	PASS
WDR64	1	241652278	241802133	-0.648598641	PASS
WDR66	12	121917862	122003927	0.202141228	PASS
WDR7	18	56651343	57036606	-0.376397843	PASS
WDR70	5	37379212	37753435	0.055007813	PASS
WDR72	15	53513741	53762878	-0.697600509	PASS
WDR73	15	84639281	84654343	-0.697600509	PASS
WDR74	11	62832342	62841809	0.182439925	suppress_segment_too_large
WDR75	2	189441433	189475565	0.025928102	PASS
WDR76	15	43826963	43868419	-0.396255771	PASS
WDR77	1	111439890	111449376	0.033763446	PASS
WDR78	1	66812885	66924887	0.033763446	PASS
WDR81	17	1716523	1738599	0.128406487	PASS
WDR82	3	52254421	52288020	-0.234617007	PASS
WDR83	19	12666800	12675832	0.093487731	suppress_segment_too_large
WDR83OS	19	12668071	12669489	0.093487731	suppress_segment_too_large
WDR86	7	151375909	151410727	-0.388946609	PASS
WDR87	19	37884823	37906677	0.093487731	suppress_segment_too_large
WDR88	19	33132090	33175795	0.093487731	suppress_segment_too_large
WDR89	14	63597039	63641861	0.060212819	PASS
WDR90	16	649311	667833	0.069936844	PASS
WDR91	7	135183839	135211534	-0.388946609	PASS
WDR92	2	68122936	68157560	-0.372959126	PASS
WDR93	15	89690797	89743638	-0.697600509	PASS
WDR97	8	144107726	144118315	0.307788765	PASS
WDSUB1	2	159235793	159286799	0.039726562	PASS
WDTC1	1	27234516	27308633	0.033763446	PASS
WDYHV1	8	123416725	123470028	0.279445683	PASS
WEE1	11	9573681	9593457	-0.405444717	PASS
WEE2	7	141708353	141731271	-0.388946609	PASS
WFDC1	16	84294646	84329851	-0.371357732	PASS
WFDC10A	20	45629526	45631196	-0.168668583	PASS
WFDC10B	20	45684653	45705019	-0.168668583	PASS

WFDC11	20	45648563	45670270	-0.168668583	PASS
WFDC12	20	45123425	45124465	-0.168668583	PASS
WFDC13	20	45702016	45708817	-0.168668583	PASS
WFDC2	20	45469706	45481532	-0.168668583	PASS
WFDC3	20	45747944	45791932	-0.168668583	PASS
WFDC5	20	45109452	45115172	-0.168668583	PASS
WFDC6	20	45534196	45539495	-0.168668583	PASS
WFDC8	20	45551153	45579326	-0.168668583	PASS
WFDC9	20	45607939	45631268	-0.168668583	PASS
WFIKKN1	16	629239	634116	0.069936844	PASS
WFIKKN2	17	50834650	50842348	0.088516311	PASS
WFS1	4	6269849	6303265	0.279089364	PASS
WHAMM	15	82809628	82836108	-0.697600509	PASS
WHRN	9	114402080	114505450	0.365190713	suppress_segment_too_large
WIF1	12	65050626	65121566	-0.202191512	PASS
WIPF1	2	174559572	174682916	0.039726562	PASS
WIPF2	17	40219304	40284136	0.060555011	PASS
WIPF3	7	29806486	29917066	-0.69513118	PASS
WIPI1	17	68420948	68457513	0.088516311	PASS
WIPI2	7	5190188	5233826	-0.69513118	PASS
WISP1	8	133191039	133231690	0.113969953	PASS
WISP2	20	44714844	44728509	-0.168668583	PASS
WISP3	6	112054072	112070969	-0.368590549	PASS
WIZ	19	15419980	15449951	0.093487731	suppress_segment_too_large
WLS	1	68098473	68233120	0.033763446	PASS
WNK1	12	752593	911452	-0.086128028	PASS
WNK2	9	93184916	93320572	0.365190713	suppress_segment_too_large
WNK3	23	54192823	54358642	-0.012567603	PASS
WNK4	17	42780678	42796936	0.088516311	PASS
WNT1	12	48978453	48981676	-0.202191512	PASS
WNT10A	2	218880363	218899581	0.025928102	PASS
WNT10B	12	48965340	48971763	-0.202191512	PASS
WNT11	11	76186325	76210736	0.062969153	PASS
WNT16	7	121325367	121341104	-0.388946609	PASS
WNT2	7	117275451	117323289	-0.388946609	PASS
WNT2B	1	112466541	112530165	0.033763446	PASS
WNT3	17	46762506	46833154	0.088516311	PASS
WNT3A	1	228007051	228061260	-0.256698369	PASS
WNT4	1	22117305	22143969	0.033763446	PASS
WNT5A	3	55465715	55490539	-0.234617007	PASS
WNT5B	12	1529891	1647243	-0.086128028	PASS
WNT6	2	218859821	218874233	0.025928102	PASS
WNT7A	3	13816258	13880121	0.311018244	suppress_segment_too_large
WNT7B	22	45920362	45977129	-0.808211634	PASS
WNT8A	5	138083892	138092365	-0.293443042	PASS
WNT8B	10	100463041	100483744	-0.367947924	PASS

WNT9A	1	227918656	227947898	-0.256698369	PASS
WNT9B	17	46833201	46886730	0.088516311	PASS
WRAP53	17	7686071	7703502	0.128406487	PASS
WRAP73	1	3630767	3652761	0.373964873	suppress_segment_too_large
WRB	21	39377698	39428528	-0.064425456	suppress_segment_too_large
WRB-SH3I	21	39380332	39515506	-0.064425456	suppress_segment_too_large
WRN	8	31033801	31173769	-0.345962679	PASS
WRNIP1	6	2765414	2786952	0.048820648	PASS
WSB1	17	27294076	27315926	0.060555011	PASS
WSB2	12	118032694	118062430	0.202141228	PASS
WSCD1	17	6057807	6124427	0.128406487	PASS
WSCD2	12	108129471	108250537	0.202141228	PASS
WT1	11	32387775	32435630	-0.405444717	PASS
WTAP	6	159725585	159756319	-0.035448111	PASS
WTIP	19	34481638	34512304	0.093487731	suppress_segment_too_large
WWC1	5	168291651	168472303	-0.150979337	PASS
WWC2	4	183099293	183320777	-0.462744716	PASS
WWC3	23	10015562	10144478	-0.012567603	PASS
WWOX	16	78099413	79212667	-0.371357732	PASS
WWP1	8	86342738	86478420	0.279445683	PASS
WWP2	16	69762306	69941741	-0.371357732	PASS
WWTR1	3	149517235	149736714	0.318278996	suppress_segment_too_large
XAB2	19	7619525	7629565	0.079632875	PASS
XAF1	17	6755447	6775647	0.128406487	PASS
XAGE1B	23	52512077	52520803	-0.012567603	PASS
XAGE2	23	52369030	52375680	-0.012567603	PASS
XAGE3	23	52862525	52868068	-0.012567603	PASS
XAGE5	23	52812204	52818301	-0.012567603	PASS
XBP1	22	28794555	28800597	-0.575930959	PASS
XCL1	1	168576473	168582077	-0.027073548	PASS
XCL2	1	168540765	168543997	-0.027073548	PASS
XCR1	3	46017024	46027742	-0.234617007	PASS
XDH	2	31334321	31414715	0.040498426	PASS
XG	23	2752048	2816500	-0.012567603	PASS
XIAP	23	123859724	123913979	-0.012567603	PASS
XIRP1	3	39183210	39192596	-0.234617007	PASS
XIRP2	2	166888487	167259753	0.039726562	PASS
XK	23	37685756	37732130	-0.012567603	PASS
XKR3	22	16783412	16821699	-0.575930959	PASS
XKR4	8	55102389	55542054	-0.201142258	PASS
XKR5	8	6808517	6835644	-0.345962679	PASS
XKR6	8	10896045	11201366	-0.345962679	PASS
XKR7	20	31968002	32003387	-0.168668583	PASS
XKR8	1	27959462	27968096	0.033763446	PASS
XKR9	8	70669365	70790371	-0.201142258	PASS
XKRX	23	100913445	100929433	-0.012567603	PASS

XPA	9	97674909	97697357	0.365190713	suppress_segment_too_large
XPC	3	14145147	14178783	0.311018244	suppress_segment_too_large
XPNPEP1	10	109864766	109923553	0.063874692	PASS
XPNPEP2	23	129738974	129769538	-0.012567603	PASS
XPNPEP3	22	40857077	40932815	-0.575930959	PASS
XPO1	2	61477849	61538626	-0.372959126	PASS
XPO4	13	20777329	20903048	-0.390786075	PASS
XPO5	6	43522330	43576075	0.048820648	PASS
XPO6	16	28097979	28211920	0.069936844	PASS
XPO7	8	21919671	22006585	-0.345962679	PASS
XPOT	12	64404350	64451127	-0.202191512	PASS
XPR1	1	180632004	180890251	-0.027073548	PASS
XRCC1	19	43543040	43580473	0.14996833	PASS
XRCC2	7	152644779	152676165	-0.411415677	PASS
XRCC3	14	103697609	103715504	-0.192197564	PASS
XRCC4	5	83077498	83353787	-0.293443042	PASS
XRCC5	2	216107464	216206303	0.025928102	PASS
XRCC6	22	41621119	41664048	-0.575930959	PASS
XRN1	3	142306607	142448062	-0.356957581	PASS
XRN2	20	21303304	21389827	-0.168668583	PASS
XRRA1	11	74807739	74949200	0.062969153	PASS
XXYLT1	3	195068279	195271167	0.326834516	PASS
XYLB	3	38346760	38421348	-0.234617007	PASS
XYLT1	16	17101769	17470881	0.069936844	PASS
XYLT2	17	50346092	50363138	0.088516311	PASS
YAE1	7	39566376	39610320	-0.69513118	PASS
YAF2	12	42157104	42238349	-0.202191512	PASS
YAP1	11	102110461	102233423	0.062969153	PASS
YARS	1	32775237	32818153	0.033763446	PASS
YARS2	12	32727490	32755902	0.362961408	suppress_segment_too_large
YBEY	21	46286337	46297751	-0.064425456	suppress_segment_too_large
YBX1	1	42682427	42702349	0.033763446	PASS
YBX2	17	7288252	7294615	0.128406487	PASS
YBX3	12	10699089	10723312	0.362961408	suppress_segment_too_large
YDJC	22	21628089	21630064	-0.575930959	PASS
YEATS2	3	183697818	183812625	0.318278996	suppress_segment_too_large
YEATS4	12	69359703	69390796	-0.202191512	PASS
YES1	18	721588	812546	-0.052305056	suppress_segment_too_large
YIF1A	11	66284580	66289170	0.182439925	suppress_segment_too_large
YIF1B	19	38305104	38317273	0.093487731	suppress_segment_too_large
YIPF1	1	53851719	53889834	0.033763446	PASS
YIPF2	19	10922185	10928681	0.093487731	suppress_segment_too_large
YIPF3	6	43511827	43516990	0.048820648	PASS
YIPF4	2	32277910	32316594	0.040498426	PASS
YIPF5	5	144158159	144170714	-0.293443042	PASS
YIPF6	23	68498323	68537285	-0.012567603	PASS

YIPF7	4	44622065	44678556	-0.011382299	PASS
YJEFN3	19	19528861	19537581	0.093487731	suppress_segment_too_large
YJU2	19	4247079	4269090	0.079632875	PASS
YKT6	7	44200968	44214294	-0.69513118	PASS
YLPM1	14	74763366	74859435	-0.192197564	PASS
YME1L1	10	27110112	27155266	0.039811807	PASS
YOD1	1	207043849	207052980	-0.256698369	PASS
YPEL1	22	21697544	21735834	-0.575930959	PASS
YPEL2	17	59331689	59401729	0.088516311	PASS
YPEL3	16	30092314	30096915	0.069936844	PASS
YPEL4	11	57645087	57649944	-0.129266491	PASS
YPEL5	2	30146941	30160533	0.040498426	PASS
YRDC	1	37802944	37808185	0.033763446	PASS
YTHDC1	4	68310387	68350089	-0.011382299	PASS
YTHDC2	5	113513683	113595285	-0.293443042	PASS
YTHDF1	20	63195429	63216234	-0.168668583	PASS
YTHDF2	1	28736621	28769775	0.033763446	PASS
YTHDF3	8	63168553	63212786	-0.201142258	PASS
YWHAB	20	44885676	44908532	-0.168668583	PASS
YWHAE	17	1344272	1400378	0.128406487	PASS
YWHAG	7	76326794	76359031	-0.262778904	PASS
YWHAH	22	31944461	31957603	-0.575930959	PASS
YWHAQ	2	9583972	9631014	0.040498426	PASS
YWHAZ	8	100916525	100953388	0.279445683	PASS
YY1	14	100238298	100282792	-0.192197564	PASS
YY1AP1	1	155659443	155689000	0.103015788	PASS
YY2	23	21855987	21858727	-0.012567603	PASS
Z82190.2	22	31754899	31956243	-0.575930959	PASS
Z83844.1	22	37686414	37726503	-0.575930959	PASS
Z83844.3	22	37639693	37666932	-0.575930959	PASS
Z84488.2	6	116399395	116463696	-0.368590549	PASS
Z84492.1	3	50350892	50367923	-0.234617007	PASS
Z98752.3	20	43540171	43569498	-0.168668583	PASS
ZACN	17	76071961	76083666	0.088516311	PASS
ZADH2	18	75195108	75209348	-0.376397843	PASS
ZAN	7	100733626	100797797	-0.262778904	PASS
ZAP70	2	97713560	97739862	0.048238121	PASS
ZAR1	4	48490252	48494389	-0.011382299	PASS
ZAR1L	13	32303700	32315344	-0.390786075	PASS
ZBBX	3	167240287	167381346	0.318278996	suppress_segment_too_large
ZBED1	23	2486414	2500967	-0.012567603	PASS
ZBED2	3	111592900	111595443	0.313454204	suppress_segment_too_large
ZBED3	5	77072072	77087323	-0.293443042	PASS
ZBED4	22	49853842	49890078	-0.808211634	PASS
ZBED5	11	10812074	10858796	-0.405444717	PASS
ZBED6	1	203795714	203854999	-0.256698369	PASS

ZBED6CL	7	150329789	150332721	-0.388946609	PASS
ZBED8	5	160393148	160400097	-0.150979337	PASS
ZBED9	6	28570535	28616212	0.048820648	PASS
ZBP1	20	57603846	57620576	-0.168668583	PASS
ZBTB1	14	64503712	64533690	0.060212819	PASS
ZBTB10	8	80485619	80526265	0.279445683	PASS
ZBTB11	3	101648889	101677495	0.313454204	suppress_segment_too_large
ZBTB12	6	31899607	31901992	0.048820648	PASS
ZBTB14	18	5289019	5297053	-0.052305056	suppress_segment_too_large
ZBTB16	11	114059593	114250676	-0.356188624	PASS
ZBTB17	1	15941869	15976132	0.033763446	PASS
ZBTB18	1	244048939	244057476	-0.368111568	PASS
ZBTB2	6	151364117	151391548	-0.035448111	PASS
ZBTB20	3	114314501	115147271	0.313454204	suppress_segment_too_large
ZBTB21	21	41986831	42010387	-0.064425456	suppress_segment_too_large
ZBTB22	6	33314406	33317942	0.048820648	PASS
ZBTB24	6	109462594	109483237	-0.368590549	PASS
ZBTB25	14	64449106	64505213	0.060212819	PASS
ZBTB26	9	122915566	122931500	0.365190713	suppress_segment_too_large
ZBTB3	11	62748319	62754188	0.182439925	suppress_segment_too_large
ZBTB32	19	35704527	35717038	0.093487731	suppress_segment_too_large
ZBTB33	23	120250752	120258398	-0.012567603	PASS
ZBTB34	9	126860665	126885878	0.365190713	suppress_segment_too_large
ZBTB37	1	173868082	173903549	-0.027073548	PASS
ZBTB38	3	141324213	141449792	-0.356957581	PASS
ZBTB39	12	56998834	57006446	-0.202191512	PASS
ZBTB4	17	7459366	7484263	0.128406487	PASS
ZBTB40	1	22428838	22531157	0.033763446	PASS
ZBTB41	1	197153680	197200542	-0.027073548	PASS
ZBTB42	14	104800596	104804712	-0.192197564	PASS
ZBTB43	9	126805006	126838210	0.365190713	suppress_segment_too_large
ZBTB44	11	130226677	130314908	-0.419612865	PASS
ZBTB45	19	58513530	58538911	0.063781462	PASS
ZBTB46	20	63743666	63831244	-0.168668583	PASS
ZBTB47	3	42653684	42665854	-0.234617007	PASS
ZBTB48	1	6580001	6589280	0.373964873	suppress_segment_too_large
ZBTB49	4	4290251	4321786	0.279089364	PASS
ZBTB5	9	37438114	37465399	-0.310444659	PASS
ZBTB6	9	122908056	122913330	0.365190713	suppress_segment_too_large
ZBTB7A	19	4044364	4066945	0.079632875	PASS
ZBTB7B	1	155002630	155018522	0.103015788	PASS
ZBTB7C	18	48026673	48410752	-0.376397843	PASS
ZBTB8A	1	32539427	32605939	0.033763446	PASS
ZBTB8B	1	32465069	32496686	0.033763446	PASS
ZBTB8OS	1	32600172	32650903	0.033763446	PASS
ZBTB9	6	33453970	33457548	0.048820648	PASS

ZC2HC1A	8	78666047	78719765	0.279445683	PASS
ZC2HC1B	6	143864436	143938356	-0.035448111	PASS
ZC2HC1C	14	75064170	75079987	-0.192197564	PASS
ZC3H10	12	56118159	56127514	-0.202191512	PASS
ZC3H11A	1	203795654	203854999	-0.256698369	PASS
ZC3H12A	1	37474552	37484379	0.033763446	PASS
ZC3H12B	23	65366638	65507887	-0.012567603	PASS
ZC3H12C	11	110093361	110171841	-0.356188624	PASS
ZC3H12D	6	149446795	149485061	-0.035448111	PASS
ZC3H13	13	45954465	46052759	-0.390786075	PASS
ZC3H14	14	88562909	88627596	-0.192197564	PASS
ZC3H15	2	186486156	186509363	-0.169541924	PASS
ZC3H18	16	88570381	88631966	-0.371357732	PASS
ZC3H3	8	143437655	143541453	0.307788765	PASS
ZC3H4	19	47064187	47113752	0.14996833	PASS
ZC3H6	2	112275594	112340063	-0.010901494	PASS
ZC3H7A	16	11750586	11797267	0.069936844	PASS
ZC3H7B	22	41301522	41360147	-0.575930959	PASS
ZC3H8	2	112211525	112255136	-0.010901494	PASS
ZC3HAV1	7	139043520	139109719	-0.388946609	PASS
ZC3HAV1	7	139025706	139036029	-0.388946609	PASS
ZC3HC1	7	130018286	130051451	-0.388946609	PASS
ZC4H2	23	64915802	65034713	-0.012567603	PASS
ZCCHC10	5	132996985	133026604	-0.293443042	PASS
ZCCHC12	23	118823790	118826968	-0.012567603	PASS
ZCCHC13	23	74304190	74305031	-0.012567603	PASS
ZCCHC14	16	87406246	87492045	-0.371357732	PASS
ZCCHC17	1	31296982	31364953	0.033763446	PASS
ZCCHC18	23	104112131	104115846	-0.012567603	PASS
ZCCHC2	18	62523007	62587709	-0.376397843	PASS
ZCCHC24	10	79382325	79445627	0.072405807	PASS
ZCCHC3	20	296968	300321	-0.168668583	PASS
ZCCHC4	4	25312785	25370383	0.279089364	PASS
ZCCHC7	9	37120539	37358149	-0.310444659	PASS
ZCCHC8	12	122471600	122501073	0.202141228	PASS
ZCCHC9	5	81301590	81313297	-0.293443042	PASS
ZCRB1	12	42312078	42326118	-0.202191512	PASS
ZCWPW1	7	100400826	100428992	-0.262778904	PASS
ZCWPW2	3	28349146	28538122	0.311018244	suppress_segment_too_large
ZDBF2	2	206274663	206314438	0.025928102	PASS
ZDHHC1	16	67394152	67416833	-0.371357732	PASS
ZDHHC11	5	795606	850986	0.055007813	PASS
ZDHHC11	5	710360	766952	0.055007813	PASS
ZDHHC12	9	128720869	128724127	0.365190713	suppress_segment_too_large
ZDHHC13	11	19117099	19176422	-0.405444717	PASS
ZDHHC14	6	157381133	157678146	-0.035448111	PASS

ZDHHC15	23	75368427	75523502	-0.012567603	PASS
ZDHHC16	10	97446131	97457370	-0.367947924	PASS
ZDHHC17	12	76763588	76853696	0.202141228	PASS
ZDHHC18	1	26826710	26857602	0.033763446	PASS
ZDHHC19	3	196197449	196211437	0.326834516	PASS
ZDHHC2	8	17156029	17224799	-0.345962679	PASS
ZDHHC20	13	21372573	21459370	-0.390786075	PASS
ZDHHC21	9	14611071	14693471	-0.310444659	PASS
ZDHHC22	14	77131270	77142734	-0.192197564	PASS
ZDHHC23	3	113947901	113965401	0.313454204	suppress_segment_too_large
ZDHHC24	11	66520637	66546238	0.182439925	suppress_segment_too_large
ZDHHC3	3	44915257	44976185	-0.234617007	PASS
ZDHHC4	7	6577434	6589374	-0.69513118	PASS
ZDHHC5	11	57667747	57701187	-0.129266491	PASS
ZDHHC6	10	112424428	112446917	0.063874692	PASS
ZDHHC7	16	84974181	85011535	-0.371357732	PASS
ZDHHC8	22	20129456	20148007	-0.575930959	PASS
ZDHHC9	23	129803288	129843909	-0.012567603	PASS
ZEB1	10	31318495	31529814	0.039811807	PASS
ZEB2	2	144364364	144524583	-0.475215623	PASS
ZER1	9	128729786	128772414	0.365190713	suppress_segment_too_large
ZFAND1	8	81701334	81732903	0.279445683	PASS
ZFAND2A	7	1152071	1160759	-0.69513118	PASS
ZFAND2B	2	219195237	219209651	0.025928102	PASS
ZFAND3	6	37819499	38154624	0.048820648	PASS
ZFAND4	10	45615501	45672780	-0.404852538	PASS
ZFAND5	9	72351425	72365235	0.365190713	suppress_segment_too_large
ZFAND6	15	80059568	80138393	-0.697600509	PASS
ZFAT	8	134477788	134713049	0.113969953	PASS
ZFC3H1	12	71609472	71667725	-0.202191512	PASS
ZFHX2	14	23520855	23556192	0.060212819	PASS
ZFHX3	16	72782885	73891871	-0.371357732	PASS
ZFHX4	8	76681219	76867285	-0.201142258	PASS
ZFP1	16	75148492	75172236	-0.371357732	PASS
ZFP14	19	36334453	36379199	0.093487731	suppress_segment_too_large
ZFP2	5	178895894	178933212	-0.150979337	PASS
ZFP28	19	56538948	56556810	-0.180829161	PASS
ZFP3	17	5078248	5096374	0.128406487	PASS
ZFP30	19	37613749	37692337	0.093487731	suppress_segment_too_large
ZFP36	19	39406813	39409412	0.093487731	suppress_segment_too_large
ZFP36L1	14	68787660	68796253	0.060212819	PASS
ZFP36L2	2	43222402	43226609	0.040498426	PASS
ZFP37	9	113038380	113056759	0.365190713	suppress_segment_too_large
ZFP41	8	143246821	143262705	0.307788765	PASS
ZFP42	4	187995771	188005050	-0.462744716	PASS
ZFP57	6	29672392	29681110	0.048820648	PASS

ZFP62	5	180847611	180861285	-0.150979337	PASS
ZFP64	20	52051663	52204308	-0.168668583	PASS
ZFP69	1	40477215	40496343	0.033763446	PASS
ZFP69B	1	40450102	40463718	0.033763446	PASS
ZFP82	19	36383120	36418656	0.093487731	suppress_segment_too_large
ZFP90	16	68530090	68576072	-0.371357732	PASS
ZFP91	11	58579111	58621042	-0.129266491	PASS
ZFP91-CNʹ	11	58579172	58624639	-0.129266491	PASS
ZFP92	23	153418322	153426481	-0.012567603	PASS
ZFPL1	11	65084210	65088400	0.182439925	suppress_segment_too_large
ZFPM1	16	88453317	88537016	-0.371357732	PASS
ZFPM2	8	104590733	105804532	0.279445683	PASS
ZFR	5	32354350	32444761	0.055007813	PASS
ZFR2	19	3804024	3869032	0.079632875	PASS
ZFX	23	24149173	24216255	-0.012567603	PASS
ZFYVE1	14	72969451	73027212	0.060212819	PASS
ZFYVE16	5	80408013	80479350	-0.293443042	PASS
ZFYVE19	15	40807086	40815084	-0.396255771	PASS
ZFYVE21	14	103715730	103733668	-0.192197564	PASS
ZFYVE26	14	67727374	67816590	0.060212819	PASS
ZFYVE27	10	97737121	97760907	-0.367947924	PASS
ZFYVE28	4	2269582	2418663	0.279089364	PASS
ZFYVE9	1	52142094	52346686	0.033763446	PASS
ZG16	16	29778240	29782973	0.069936844	PASS
ZG16B	16	2830169	2839585	0.069936844	PASS
ZGLP1	19	10304803	10309880	0.093487731	suppress_segment_too_large
ZGPAT	20	63707465	63736142	-0.168668583	PASS
ZGRF1	4	112539333	112636995	-0.011382299	PASS
ZHX1	8	123248451	123275541	0.279445683	PASS
ZHX1-C8o	8	123226189	123274284	0.279445683	PASS
ZHX2	8	122781394	122974512	0.279445683	PASS
ZHX3	20	41178448	41317672	-0.168668583	PASS
ZIC1	3	147393422	147510293	0.318278996	suppress_segment_too_large
ZIC2	13	99981772	99986773	-0.390786075	PASS
ZIC3	23	137566142	137577691	-0.012567603	PASS
ZIC4	3	147386046	147406860	0.318278996	suppress_segment_too_large
ZIC5	13	99962964	99971909	-0.390786075	PASS
ZIK1	19	57578456	57593777	-0.180829161	PASS
ZIM2	19	56774547	56840729	-0.180829161	PASS
ZIM3	19	57134096	57145202	-0.180829161	PASS
ZKSCAN1	7	100015572	100041689	-0.262778904	PASS
ZKSCAN2	16	25236001	25257931	0.069936844	PASS
ZKSCAN3	6	28349914	28369177	0.048820648	PASS
ZKSCAN4	6	28244623	28252224	0.048820648	PASS
ZKSCAN5	7	99504651	99534700	-0.262778904	PASS
ZKSCAN7	3	44555193	44594173	-0.234617007	PASS

ZKSCAN8	6	28141910	28159472	0.048820648	PASS
ZMAT1	23	101882288	101932031	-0.012567603	PASS
ZMAT2	5	140698680	140706676	-0.293443042	PASS
ZMAT3	3	179017223	179072279	0.318278996	suppress_segment_too_large
ZMAT4	8	40530590	40897833	-0.201142258	PASS
ZMAT5	22	29730956	29767011	-0.575930959	PASS
ZMIZ1	10	79069035	79316528	0.072405807	PASS
ZMIZ2	7	44748581	44769881	-0.69513118	PASS
ZMPSTE24	1	40258107	40294184	0.033763446	PASS
ZMYM1	1	35032172	35115859	0.033763446	PASS
ZMYM2	13	19958670	20091829	-0.390786075	PASS
ZMYM3	23	71239624	71255146	-0.012567603	PASS
ZMYM4	1	35268967	35422058	0.033763446	PASS
ZMYM5	13	19823482	19863636	-0.390786075	PASS
ZMYM6	1	34986165	35031968	0.033763446	PASS
ZMYND10	3	50341110	50346852	-0.234617007	PASS
ZMYND11	10	134465	254637	0.039811807	PASS
ZMYND12	1	42430329	42456267	0.033763446	PASS
ZMYND15	17	4740015	4746119	0.128406487	PASS
ZMYND19	9	137582079	137590490	0.365190713	suppress_segment_too_large
ZMYND8	20	47209214	47356889	-0.168668583	PASS
ZNF10	12	133130575	133159465	0.270848837	PASS
ZNF100	19	21722766	21767628	0.093487731	suppress_segment_too_large
ZNF101	19	19668796	19683509	0.093487731	suppress_segment_too_large
ZNF106	15	42412823	42491141	-0.396255771	PASS
ZNF107	7	64666083	64711582	-0.750061359	PASS
ZNF112	19	44326555	44367217	0.14996833	PASS
ZNF114	19	48270102	48287608	0.14996833	PASS
ZNF117	7	64971776	65006684	-0.750061359	PASS
ZNF12	7	6688433	6706923	-0.69513118	PASS
ZNF121	19	9560353	9584533	0.093487731	suppress_segment_too_large
ZNF124	1	247121975	247172016	-0.368111568	PASS
ZNF131	5	43065176	43192021	-0.293443042	PASS
ZNF132	19	58432814	58440222	0.063781462	PASS
ZNF133	20	18288283	18316996	-0.168668583	PASS
ZNF134	19	57614233	57624723	-0.180829161	PASS
ZNF135	19	58059239	58086310	0.063781462	PASS
ZNF136	19	12163064	12189881	0.093487731	suppress_segment_too_large
ZNF138	7	64794388	64833681	-0.750061359	PASS
ZNF14	19	19710471	19733097	0.093487731	suppress_segment_too_large
ZNF140	12	133079838	133107544	0.270848837	PASS
ZNF141	4	337814	384864	0.279089364	PASS
ZNF142	2	218637916	218659655	0.025928102	PASS
ZNF143	11	9460319	9528524	-0.405444717	PASS
ZNF146	19	36214602	36238774	0.093487731	suppress_segment_too_large
ZNF148	3	125225561	125375354	0.313454204	suppress_segment_too_large

ZNF154	19	57697367	57709194	-0.180829161	PASS
ZNF155	19	43967862	43998325	0.14996833	PASS
ZNF157	23	47370583	47414305	-0.012567603	PASS
ZNF16	8	144930358	144950888	0.307788765	PASS
ZNF160	19	53066606	53103436	0.206912349	PASS
ZNF165	6	28080975	28089563	0.048820648	PASS
ZNF169	9	94259311	94301454	0.365190713	suppress_segment_too_large
ZNF17	19	57411163	57421939	-0.180829161	PASS
ZNF174	16	3401235	3409370	0.069936844	PASS
ZNF175	19	51571298	51592508	-0.016761391	PASS
ZNF177	19	9363020	9382617	0.093487731	suppress_segment_too_large
ZNF18	17	11977439	11997510	-0.139031004	PASS
ZNF180	19	44474428	44500524	0.14996833	PASS
ZNF181	19	34734155	34745378	0.093487731	suppress_segment_too_large
ZNF182	23	47974851	48003978	-0.012567603	PASS
ZNF184	6	27450743	27473118	0.048820648	PASS
ZNF185	23	152914442	152973480	-0.012567603	PASS
ZNF189	9	101398873	101410660	0.365190713	suppress_segment_too_large
ZNF19	16	71464555	71565089	-0.371357732	PASS
ZNF195	11	3339261	3379222	-0.333835828	PASS
ZNF197	3	44584888	44648471	-0.234617007	PASS
ZNF2	2	95165432	95184317	0.048238121	PASS
ZNF20	19	12092843	12140407	0.093487731	suppress_segment_too_large
ZNF200	16	3222325	3236221	0.069936844	PASS
ZNF202	11	123724177	123741675	-0.949752196	PASS
ZNF205	16	3112560	3120517	0.069936844	PASS
ZNF207	17	32350117	32381886	0.060555011	PASS
ZNF208	19	21932958	22010949	0.093487731	suppress_segment_too_large
ZNF211	19	57630395	57642779	-0.180829161	PASS
ZNF212	7	149239651	149255609	-0.388946609	PASS
ZNF213	16	3129777	3142805	0.069936844	PASS
ZNF214	11	6999318	7020368	-0.405444717	PASS
ZNF215	11	6926404	7001004	-0.405444717	PASS
ZNF217	20	53567065	53609907	-0.168668583	PASS
ZNF219	14	21090046	21104722	0.060212819	PASS
ZNF22	10	45000475	45005326	-0.404852538	PASS
ZNF221	19	43951223	43967709	0.14996833	PASS
ZNF222	19	44025342	44033112	0.14996833	PASS
ZNF223	19	44051367	44067991	0.14996833	PASS
ZNF224	19	44094339	44109886	0.14996833	PASS
ZNF225	19	44112181	44134816	0.14996833	PASS
ZNF226	19	44165073	44178381	0.14996833	PASS
ZNF227	19	44207547	44237268	0.14996833	PASS
ZNF229	19	44417519	44448578	0.14996833	PASS
ZNF23	16	71447597	71463095	-0.371357732	PASS
ZNF230	19	44002948	44013926	0.14996833	PASS

ZNF232	17	5105541	5123116	0.128406487	PASS
ZNF233	19	44259880	44275317	0.14996833	PASS
ZNF234	19	44141557	44160309	0.14996833	PASS
ZNF235	19	44228729	44305046	0.14996833	PASS
ZNF236	18	76822607	76970727	-0.376397843	PASS
ZNF239	10	43556344	43574618	-0.404852538	PASS
ZNF24	18	35332212	35345482	-0.376397843	PASS
ZNF248	10	37776526	37858106	0.039811807	PASS
ZNF25	10	37949572	37976633	0.039811807	PASS
ZNF250	8	144876497	144902168	0.307788765	PASS
ZNF251	8	144720907	144756417	0.307788765	PASS
ZNF253	19	19865886	19894674	0.093487731	suppress_segment_too_large
ZNF254	19	24033405	24129961	0.093487731	suppress_segment_too_large
ZNF256	19	57940833	57947675	-0.180829161	PASS
ZNF257	19	22052452	22091480	0.093487731	suppress_segment_too_large
ZNF26	12	132986365	133032952	0.270848837	PASS
ZNF260	19	36510695	36528660	0.093487731	suppress_segment_too_large
ZNF263	16	3263800	3301401	0.069936844	PASS
ZNF264	19	57191500	57222846	-0.180829161	PASS
ZNF266	19	9412461	9435578	0.093487731	suppress_segment_too_large
ZNF267	16	31873758	31917357	0.069936844	PASS
ZNF268	12	133181409	133214831	0.270848837	PASS
ZNF273	7	64870172	64930966	-0.750061359	PASS
ZNF274	19	58183029	58213562	0.063781462	PASS
ZNF275	23	153334147	153360110	-0.012567603	PASS
ZNF276	16	89720400	89740903	-0.371357732	PASS
ZNF277	7	112206588	112343096	-0.388946609	PASS
ZNF28	19	52797409	52857600	0.206912349	PASS
ZNF280A	22	22513736	22520270	-0.575930959	PASS
ZNF280B	22	22484421	22509154	-0.575930959	PASS
ZNF280C	23	130202711	130268899	-0.012567603	PASS
ZNF280D	15	56630181	56734086	-0.697600509	PASS
ZNF281	1	200404940	200410056	-0.027073548	PASS
ZNF282	7	149195485	149226248	-0.388946609	PASS
ZNF283	19	43827292	43852017	0.14996833	PASS
ZNF284	19	44072144	44089613	0.14996833	PASS
ZNF285	19	44382298	44401608	0.14996833	PASS
ZNF286A	17	15699577	15720787	-0.139031004	PASS
ZNF286B	17	18658429	18682262	0.024610076	PASS
ZNF287	17	16551387	16569206	0.024610076	PASS
ZNF292	6	87152833	87264196	-0.368590549	PASS
ZNF296	19	45071500	45076588	0.14996833	PASS
ZNF3	7	100064033	100082548	-0.262778904	PASS
ZNF30	19	34926903	34945170	0.093487731	suppress_segment_too_large
ZNF300	5	150894392	150904983	-0.293443042	PASS
ZNF302	19	34677639	34686397	0.093487731	suppress_segment_too_large

ZNF304	19	57351307	57359898	-0.180829161	PASS
ZNF311	6	28994785	29005316	0.048820648	PASS
ZNF316	7	6637322	6656432	-0.69513118	PASS
ZNF317	19	9140380	9163424	0.093487731	suppress_segment_too_large
ZNF318	6	43307134	43369478	0.048820648	PASS
ZNF319	16	57994668	58000453	-0.371357732	PASS
ZNF32	10	43643859	43648856	-0.404852538	PASS
ZNF320	19	52863790	52897693	0.206912349	PASS
ZNF322	6	26634383	26659752	0.048820648	PASS
ZNF324	19	58467045	58475436	0.063781462	PASS
ZNF324B	19	58451604	58457833	0.063781462	PASS
ZNF326	1	89995112	90035531	0.033763446	PASS
ZNF329	19	58126252	58155110	0.063781462	PASS
ZNF330	4	141220887	141234697	-0.011382299	PASS
ZNF331	19	53519527	53580269	0.206912349	PASS
ZNF333	19	14689801	14733746	0.093487731	suppress_segment_too_large
ZNF334	20	46499630	46513559	-0.168668583	PASS
ZNF335	20	45948653	45972172	-0.168668583	PASS
ZNF337	20	25674215	25696841	-0.168668583	PASS
ZNF33A	10	38010650	38065088	0.039811807	PASS
ZNF33B	10	42574185	42638568	-0.404852538	PASS
ZNF34	8	144773114	144787345	0.307788765	PASS
ZNF341	20	33731657	33792269	-0.168668583	PASS
ZNF343	20	2481817	2524702	-0.168668583	PASS
ZNF345	19	36850361	36913029	0.093487731	suppress_segment_too_large
ZNF346	5	177022696	177081189	-0.150979337	PASS
ZNF347	19	53124072	53159075	0.206912349	PASS
ZNF35	3	44648727	44660791	-0.234617007	PASS
ZNF350	19	51964343	51986856	-0.016761391	PASS
ZNF354A	5	178711592	178730702	-0.150979337	PASS
ZNF354B	5	178859953	178888122	-0.150979337	PASS
ZNF354C	5	179060415	179083537	-0.150979337	PASS
ZNF358	19	7515292	7521026	0.079632875	PASS
ZNF362	1	33256545	33300719	0.033763446	PASS
ZNF365	10	62374192	62670301	0.072405807	PASS
ZNF366	5	72442652	72507727	-0.293443042	PASS
ZNF367	9	96385941	96418329	0.365190713	suppress_segment_too_large
ZNF37A	10	38094334	38150293	0.039811807	PASS
ZNF382	19	36604817	36634113	0.093487731	suppress_segment_too_large
ZNF383	19	37217926	37248738	0.093487731	suppress_segment_too_large
ZNF384	12	6666477	6689572	-0.086128028	PASS
ZNF385A	12	54369133	54391298	-0.202191512	PASS
ZNF385B	2	179441982	179861505	0.039726562	PASS
ZNF385C	17	42025576	42098479	0.060555011	PASS
ZNF385D	3	21412222	22373321	0.311018244	suppress_segment_too_large
ZNF391	6	27374615	27403904	0.048820648	PASS

ZNF394	7	99486519	99500324	-0.262778904	PASS
ZNF395	8	28345585	28402701	-0.345962679	PASS
ZNF396	18	35366697	35377337	-0.376397843	PASS
ZNF397	18	35241030	35267133	-0.376397843	PASS
ZNF398	7	149126416	149182802	-0.388946609	PASS
ZNF404	19	43872363	43901385	0.14996833	PASS
ZNF407	18	74597870	75065671	-0.376397843	PASS
ZNF408	11	46700818	46705912	0.117376172	PASS
ZNF41	23	47445879	47482946	-0.012567603	PASS
ZNF410	14	73886617	73932511	0.060212819	PASS
ZNF414	19	8509678	8514164	0.079632875	PASS
ZNF415	19	53107879	53133077	0.206912349	PASS
ZNF416	19	57571566	57578927	-0.180829161	PASS
ZNF417	19	57900296	57916610	-0.180829161	PASS
ZNF418	19	57921884	57935393	-0.180829161	PASS
ZNF419	19	57487711	57496097	-0.180829161	PASS
ZNF420	19	37007857	37130314	0.093487731	suppress_segment_too_large
ZNF423	16	49487524	49857919	0.069936844	PASS
ZNF425	7	149102784	149126346	-0.388946609	PASS
ZNF426	19	9523224	9538645	0.093487731	suppress_segment_too_large
ZNF428	19	43607219	43619874	0.14996833	PASS
ZNF429	19	21496682	21556270	0.093487731	suppress_segment_too_large
ZNF43	19	21804949	21852125	0.093487731	suppress_segment_too_large
ZNF430	19	21020620	21060050	0.093487731	suppress_segment_too_large
ZNF431	19	21142024	21196053	0.093487731	suppress_segment_too_large
ZNF432	19	52031379	52095738	0.206912349	PASS
ZNF433	19	12014732	12035741	0.093487731	suppress_segment_too_large
ZNF436	1	23359448	23369442	0.033763446	PASS
ZNF438	10	30820207	31031937	0.039811807	PASS
ZNF439	19	11848726	11883750	0.093487731	suppress_segment_too_large
ZNF44	19	12224686	12294887	0.093487731	suppress_segment_too_large
ZNF440	19	11814284	11835201	0.093487731	suppress_segment_too_large
ZNF441	19	11767000	11784078	0.093487731	suppress_segment_too_large
ZNF442	19	12345949	12365905	0.093487731	suppress_segment_too_large
ZNF443	19	12429707	12441112	0.093487731	suppress_segment_too_large
ZNF444	19	56132599	56160893	-0.180829161	PASS
ZNF445	3	44431720	44477670	-0.234617007	PASS
ZNF446	19	58474017	58481230	0.063781462	PASS
ZNF449	23	135344796	135363152	-0.012567603	PASS
ZNF45	19	43912629	43935278	0.14996833	PASS
ZNF451	6	57086844	57170307	0.048820648	PASS
ZNF454	5	178941191	178966433	-0.150979337	PASS
ZNF460	19	57280051	57293569	-0.180829161	PASS
ZNF461	19	36637192	36666853	0.093487731	suppress_segment_too_large
ZNF462	9	106863097	107013634	0.365190713	suppress_segment_too_large
ZNF467	7	149764182	149773479	-0.388946609	PASS

ZNF468	19	52838008	52890375	0.206912349	PASS
ZNF469	16	88427471	88440757	-0.371357732	PASS
ZNF470	19	56567511	56588911	-0.180829161	PASS
ZNF471	19	56507843	56530221	-0.180829161	PASS
ZNF473	19	50025714	50053414	-0.016761391	PASS
ZNF474	5	122129513	122153571	-0.293443042	PASS
ZNF479	7	57119614	57139864	-0.750061359	PASS
ZNF48	16	30378106	30400108	0.069936844	PASS
ZNF480	19	52297177	52325922	0.206912349	PASS
ZNF483	9	111525159	111577844	0.365190713	suppress_segment_too_large
ZNF484	9	92845031	92878038	0.365190713	suppress_segment_too_large
ZNF485	10	43606407	43617903	-0.404852538	PASS
ZNF486	19	20167228	20200490	0.093487731	suppress_segment_too_large
ZNF487	10	43436841	43483179	-0.404852538	PASS
ZNF488	10	47365496	47384273	-0.404852538	PASS
ZNF490	19	12577961	12640098	0.093487731	suppress_segment_too_large
ZNF491	19	11797667	11809622	0.093487731	suppress_segment_too_large
ZNF492	19	22634324	22667670	0.093487731	suppress_segment_too_large
ZNF493	19	21397119	21427573	0.093487731	suppress_segment_too_large
ZNF496	1	247297412	247331846	-0.368111568	PASS
ZNF497	19	58354357	58362848	0.063781462	PASS
ZNF500	16	4748239	4767624	0.069936844	PASS
ZNF501	3	44729596	44737083	-0.234617007	PASS
ZNF502	3	44712643	44723831	-0.234617007	PASS
ZNF503	10	75397830	75401906	0.072405807	PASS
ZNF506	19	19785839	19821751	0.093487731	suppress_segment_too_large
ZNF507	19	32345594	32387667	0.093487731	suppress_segment_too_large
ZNF510	9	96755865	96778129	0.365190713	suppress_segment_too_large
ZNF511	10	133308475	133313162	0.063874692	PASS
ZNF511-PI	10	133309410	133352529	0.063874692	PASS
ZNF512	2	27582969	27623215	0.040498426	PASS
ZNF512B	20	63956702	63969865	-0.168668583	PASS
ZNF513	2	27377231	27380790	0.040498426	PASS
ZNF514	2	95147330	95165413	0.048238121	PASS
ZNF516	18	76358190	76495190	-0.376397843	PASS
ZNF517	8	144798876	144811169	0.307788765	PASS
ZNF518A	10	96129715	96205288	1.054876852	PASS
ZNF518B	4	10439874	10457410	0.279089364	PASS
ZNF519	18	14057457	14132490	-0.052305056	suppress_segment_too_large
ZNF521	18	25061926	25352190	-0.376397843	PASS
ZNF524	19	55600022	55603138	0.121336758	PASS
ZNF525	19	53365693	53392217	0.206912349	PASS
ZNF526	19	42220271	42228201	0.093487731	suppress_segment_too_large
ZNF527	19	37371061	37393066	0.093487731	suppress_segment_too_large
ZNF528	19	52397849	52418412	0.206912349	PASS
ZNF529	19	36534774	36605276	0.093487731	suppress_segment_too_large

ZNF530	19	57599885	57612722	-0.180829161	PASS
ZNF532	18	58862600	58986480	-0.376397843	PASS
ZNF534	19	52429187	52452315	0.206912349	PASS
ZNF536	19	30228290	30713538	0.093487731	suppress_segment_too_large
ZNF540	19	37551406	37614097	0.093487731	suppress_segment_too_large
ZNF541	19	47520685	47555856	0.14996833	PASS
ZNF543	19	57320509	57330776	-0.180829161	PASS
ZNF544	19	58228594	58277495	0.063781462	PASS
ZNF546	19	39984134	40021041	0.093487731	suppress_segment_too_large
ZNF547	19	57363477	57379565	-0.180829161	PASS
ZNF548	19	57389850	57402992	-0.180829161	PASS
ZNF549	19	57527325	57557542	-0.180829161	PASS
ZNF550	19	57535257	57559863	-0.180829161	PASS
ZNF551	19	57681969	57717301	-0.180829161	PASS
ZNF552	19	57803841	57814913	-0.180829161	PASS
ZNF554	19	2819874	2835773	0.079632875	PASS
ZNF555	19	2841435	2860484	0.079632875	PASS
ZNF556	19	2867335	2883445	0.079632875	PASS
ZNF557	19	7069444	7087968	0.079632875	PASS
ZNF558	19	8806170	8832328	0.079632875	PASS
ZNF559	19	9323772	9351162	0.093487731	suppress_segment_too_large
ZNF559-Zl	19	9324174	9382617	0.093487731	suppress_segment_too_large
ZNF560	19	9466507	9498607	0.093487731	suppress_segment_too_large
ZNF561	19	9604680	9621399	0.093487731	suppress_segment_too_large
ZNF562	19	9641808	9675086	0.093487731	suppress_segment_too_large
ZNF563	19	12317477	12333720	0.093487731	suppress_segment_too_large
ZNF564	19	12525370	12551542	0.093487731	suppress_segment_too_large
ZNF565	19	36182060	36246257	0.093487731	suppress_segment_too_large
ZNF566	19	36445119	36489902	0.093487731	suppress_segment_too_large
ZNF567	19	36687612	36727701	0.093487731	suppress_segment_too_large
ZNF568	19	36916329	36998700	0.093487731	suppress_segment_too_large
ZNF569	19	37411155	37469275	0.093487731	suppress_segment_too_large
ZNF57	19	2900898	2918476	0.079632875	PASS
ZNF570	19	37467585	37488652	0.093487731	suppress_segment_too_large
ZNF571	19	37554782	37594790	0.093487731	suppress_segment_too_large
ZNF572	8	124973298	124979389	0.279445683	PASS
ZNF573	19	37735833	37817300	0.093487731	suppress_segment_too_large
ZNF574	19	42068477	42081549	0.093487731	suppress_segment_too_large
ZNF575	19	43525497	43536130	0.14996833	PASS
ZNF576	19	43596392	43601157	0.14996833	PASS
ZNF577	19	51804816	51890950	-0.016761391	PASS
ZNF578	19	52453576	52512154	0.206912349	PASS
ZNF579	19	55576770	55580845	0.121336758	PASS
ZNF580	19	55635016	55643469	0.121336758	PASS
ZNF581	19	55635459	55645622	0.121336758	PASS
ZNF582	19	56375846	56393545	-0.180829161	PASS

ZNF583	19	56397966	56436035	-0.180829161	PASS
ZNF584	19	58401504	58418327	0.063781462	PASS
ZNF585A	19	37106734	37172741	0.093487731	suppress_segment_too_large
ZNF585B	19	37181579	37218153	0.093487731	suppress_segment_too_large
ZNF586	19	57769655	57819939	-0.180829161	PASS
ZNF587	19	57849857	57865112	-0.180829161	PASS
ZNF587B	19	57819741	57846238	-0.180829161	PASS
ZNF589	3	48241100	48299253	-0.234617007	PASS
ZNF592	15	84748635	84806432	-0.697600509	PASS
ZNF593	1	26169871	26170873	0.033763446	PASS
ZNF594	17	5179536	5191883	0.128406487	PASS
ZNF595	4	53285	88211	0.279089364	PASS
ZNF596	8	232137	264703	-0.106598973	PASS
ZNF597	16	3432422	3443553	0.069936844	PASS
ZNF598	16	1997654	2009823	0.069936844	PASS
ZNF599	19	34758076	34773229	0.093487731	suppress_segment_too_large
ZNF600	19	52749942	52786807	0.206912349	PASS
ZNF605	12	132918308	132956306	0.270848837	PASS
ZNF606	19	57977053	58003349	0.063781462	PASS
ZNF607	19	37696363	37719790	0.093487731	suppress_segment_too_large
ZNF608	5	124636913	124748807	-0.293443042	PASS
ZNF609	15	64460742	64686068	-0.697600509	PASS
ZNF610	19	52336245	52367778	0.206912349	PASS
ZNF611	19	52702813	52735073	0.206912349	PASS
ZNF613	19	51927147	51948759	-0.016761391	PASS
ZNF614	19	52012765	52030240	0.206912349	PASS
ZNF615	19	51991332	52008230	0.206912349	PASS
ZNF616	19	52113091	52139922	0.206912349	PASS
ZNF618	9	113876282	114056591	0.365190713	suppress_segment_too_large
ZNF619	3	40477113	40490236	-0.234617007	PASS
ZNF620	3	40477131	40518736	-0.234617007	PASS
ZNF621	3	40524878	40574685	-0.234617007	PASS
ZNF622	5	16451519	16465792	0.055007813	PASS
ZNF623	8	143636013	143656418	0.307788765	PASS
ZNF624	17	16620737	16653856	0.024610076	PASS
ZNF625	19	12142090	12156729	0.093487731	suppress_segment_too_large
ZNF625-ZI	19	12132117	12156731	0.093487731	suppress_segment_too_large
ZNF626	19	20620061	20661596	0.093487731	suppress_segment_too_large
ZNF627	19	11559374	11619135	0.093487731	suppress_segment_too_large
ZNF628	19	55476332	55484487	0.121336758	PASS
ZNF629	16	30778449	30787202	0.069936844	PASS
ZNF630	23	47983356	48071658	-0.012567603	PASS
ZNF638	2	71276561	71435069	-0.372959126	PASS
ZNF639	3	179322991	179338583	0.318278996	suppress_segment_too_large
ZNF641	12	48337180	48351414	-0.202191512	PASS
ZNF644	1	90915298	91022272	0.033763446	PASS

ZNF646	16	31074422	31084196	0.069936844	PASS
ZNF648	1	182054570	182061712	-0.027073548	PASS
ZNF649	19	51889224	51905040	-0.016761391	PASS
ZNF652	17	49289206	49362473	0.088516311	PASS
ZNF653	19	11483427	11505923	0.093487731	suppress_segment_too_large
ZNF654	3	88059274	88144665	0.313454204	suppress_segment_too_large
ZNF655	7	99558406	99576453	-0.262778904	PASS
ZNF658	9	66856426	66932141	-0.310444659	PASS
ZNF66	19	20776304	20807322	0.093487731	suppress_segment_too_large
ZNF660	3	44578223	44599694	-0.234617007	PASS
ZNF662	3	42905731	42917641	-0.234617007	PASS
ZNF664	12	123971845	124015439	0.202141228	PASS
ZNF665	19	53159213	53193386	0.206912349	PASS
ZNF667	19	56439325	56478065	-0.180829161	PASS
ZNF668	16	31060843	31074320	0.069936844	PASS
ZNF669	1	247099962	247104372	-0.368111568	PASS
ZNF670	1	247036784	247078755	-0.368111568	PASS
ZNF670-ZI	1	246945547	247078811	-0.368111568	PASS
ZNF671	19	57719751	57727624	-0.180829161	PASS
ZNF672	1	248838210	248849517	-0.368111568	PASS
ZNF674	23	46497727	46545457	-0.012567603	PASS
ZNF675	19	23525631	23687220	0.093487731	suppress_segment_too_large
ZNF676	19	22179091	22215775	0.093487731	suppress_segment_too_large
ZNF677	19	53235381	53254898	0.206912349	PASS
ZNF678	1	227563543	227677443	-0.256698369	PASS
ZNF679	7	64228474	64266931	-0.750061359	PASS
ZNF680	7	64519884	64563106	-0.750061359	PASS
ZNF681	19	23739195	23758891	0.093487731	suppress_segment_too_large
ZNF682	19	19997058	20039506	0.093487731	suppress_segment_too_large
ZNF683	1	26361634	26374522	0.033763446	PASS
ZNF684	1	40531561	40548169	0.033763446	PASS
ZNF687	1	151281618	151292180	0.103015788	PASS
ZNF688	16	30569346	30572734	0.069936844	PASS
ZNF689	16	30602558	30624012	0.069936844	PASS
ZNF69	19	11887784	11914329	0.093487731	suppress_segment_too_large
ZNF691	1	42846573	42852477	0.033763446	PASS
ZNF692	1	248850006	248859144	-0.368111568	PASS
ZNF695	1	246945547	247008093	-0.368111568	PASS
ZNF696	8	143289676	143298061	0.307788765	PASS
ZNF697	1	119619422	119647773	-0.157385092	PASS
ZNF699	19	9294275	9309838	0.093487731	suppress_segment_too_large
ZNF7	8	144827464	144847509	0.307788765	PASS
ZNF70	22	23738678	23751092	-0.575930959	PASS
ZNF700	19	11925068	11950773	0.093487731	suppress_segment_too_large
ZNF701	19	52555457	52587174	0.206912349	PASS
ZNF703	8	37695751	37700021	-0.201142258	PASS

ZNF704	8	80628451	80874781	0.279445683	PASS
ZNF705A	12	8157034	8188537	-0.086128028	PASS
ZNF705D	8	12104389	12115516	-0.345962679	PASS
ZNF705E	11	71814045	71821548	0.062969153	PASS
ZNF705G	8	7355517	7385558	-0.345962679	PASS
ZNF706	8	101177878	101206193	0.279445683	PASS
ZNF707	8	143684452	143713898	0.307788765	PASS
ZNF708	19	21291160	21329425	0.093487731	suppress_segment_too_large
ZNF709	19	12461184	12513854	0.093487731	suppress_segment_too_large
ZNF71	19	56595264	56626481	-0.180829161	PASS
ZNF710	15	90001392	90082206	-0.697600509	PASS
ZNF711	23	85244032	85273362	-0.012567603	PASS
ZNF713	7	55887475	55942530	-0.750061359	PASS
ZNF714	19	21082159	21125270	0.093487731	suppress_segment_too_large
ZNF716	7	57450177	57473546	-0.750061359	PASS
ZNF717	3	75678660	75785583	-0.234617007	PASS
ZNF718	4	124480	202303	0.279089364	PASS
ZNF720	16	31713229	31794869	0.069936844	PASS
ZNF721	4	425815	499156	0.279089364	PASS
ZNF723	19	22832321	22858667	0.093487731	suppress_segment_too_large
ZNF724	19	23221599	23250390	0.093487731	suppress_segment_too_large
ZNF726	19	23914876	23945159	0.093487731	suppress_segment_too_large
ZNF727	7	64045443	64078549	-0.750061359	PASS
ZNF728	19	22975468	23003176	0.093487731	suppress_segment_too_large
ZNF729	19	22286408	22317176	0.093487731	suppress_segment_too_large
ZNF730	19	23075210	23147219	0.093487731	suppress_segment_too_large
ZNF732	4	270675	305321	0.279089364	PASS
ZNF735	7	64207090	64220508	-0.750061359	PASS
ZNF736	7	64307459	64354860	-0.750061359	PASS
ZNF737	19	20535825	20565809	0.093487731	suppress_segment_too_large
ZNF738	19	21358930	21379302	0.093487731	suppress_segment_too_large
ZNF74	22	20394115	20408461	-0.575930959	PASS
ZNF740	12	53180700	53195141	-0.202191512	PASS
ZNF746	7	149472696	149497817	-0.388946609	PASS
ZNF747	16	30530367	30535347	0.069936844	PASS
ZNF749	19	57435329	57445485	-0.180829161	PASS
ZNF750	17	82829435	82840578	0.088516311	PASS
ZNF75A	16	3305406	3318852	0.069936844	PASS
ZNF75D	23	135248920	135344087	-0.012567603	PASS
ZNF76	6	35258909	35295985	0.048820648	PASS
ZNF761	19	53431993	53458261	0.206912349	PASS
ZNF763	19	11965037	11980381	0.093487731	suppress_segment_too_large
ZNF764	16	30553764	30558498	0.069936844	PASS
ZNF765	19	53389793	53430413	0.206912349	PASS
ZNF766	19	52269571	52296046	0.206912349	PASS
ZNF768	16	30524001	30526821	0.069936844	PASS

ZNF77	19	2933218	2944971	0.079632875	PASS
ZNF770	15	34978341	34988287	-0.396255771	PASS
ZNF771	16	30407297	30431108	0.069936844	PASS
ZNF772	19	57466663	57477570	-0.180829161	PASS
ZNF773	19	57499915	57518404	-0.180829161	PASS
ZNF774	15	90352245	90369146	-0.697600509	PASS
ZNF775	7	150379335	150398631	-0.388946609	PASS
ZNF776	19	57746796	57758159	-0.180829161	PASS
ZNF777	7	149431363	149461123	-0.388946609	PASS
ZNF778	16	89217703	89237071	-0.371357732	PASS
ZNF780A	19	40069152	40090938	0.093487731	suppress_segment_too_large
ZNF780B	19	40028260	40056209	0.093487731	suppress_segment_too_large
ZNF781	19	37667751	37692322	0.093487731	suppress_segment_too_large
ZNF782	9	96816472	96875623	0.365190713	suppress_segment_too_large
ZNF783	7	149262171	149297302	-0.388946609	PASS
ZNF784	19	55620742	55624601	0.121336758	PASS
ZNF785	16	30573740	30585771	0.069936844	PASS
ZNF786	7	149069643	149090782	-0.388946609	PASS
ZNF787	19	56087366	56121280	-0.180829161	PASS
ZNF789	7	99472841	99503650	-0.262778904	PASS
ZNF79	9	127424374	127445372	0.365190713	suppress_segment_too_large
ZNF790	19	36817428	36850787	0.093487731	suppress_segment_too_large
ZNF791	19	12610918	12633840	0.093487731	suppress_segment_too_large
ZNF792	19	34956354	34964049	0.093487731	suppress_segment_too_large
ZNF793	19	37506939	37548762	0.093487731	suppress_segment_too_large
ZNF799	19	12390016	12401271	0.093487731	suppress_segment_too_large
ZNF8	19	58278951	58302805	0.063781462	PASS
ZNF80	3	114234631	114237578	0.313454204	suppress_segment_too_large
ZNF800	7	127346790	127431924	-0.388946609	PASS
ZNF804A	2	184598366	184939492	-0.169541924	PASS
ZNF804B	7	88759368	89337057	-0.262778904	PASS
ZNF805	19	57240685	57255135	-0.180829161	PASS
ZNF808	19	52527652	52564464	0.206912349	PASS
ZNF81	23	47836902	48002561	-0.012567603	PASS
ZNF813	19	53467735	53496255	0.206912349	PASS
ZNF814	19	57848731	57889074	-0.180829161	PASS
ZNF816	19	52949379	52962911	0.206912349	PASS
ZNF816-ZI	19	52928475	52962823	0.206912349	PASS
ZNF821	16	71859680	71895336	-0.371357732	PASS
ZNF823	19	11721265	11739009	0.093487731	suppress_segment_too_large
ZNF827	4	145757627	145938635	-0.011382299	PASS
ZNF829	19	36888124	36916291	0.093487731	suppress_segment_too_large
ZNF83	19	52594060	52690496	0.206912349	PASS
ZNF830	17	34961530	34963775	0.060555011	PASS
ZNF831	20	59123381	59259113	-0.168668583	PASS
ZNF835	19	56661981	56671783	-0.180829161	PASS

ZNF836	19	52153864	52171643	0.206912349	PASS
ZNF837	19	58367618	58381060	0.063781462	PASS
ZNF839	14	102317377	102342702	-0.192197564	PASS
ZNF84	12	133037292	133063304	0.270848837	PASS
ZNF841	19	52064466	52095765	0.206912349	PASS
ZNF843	16	31432593	31443160	0.069936844	PASS
ZNF844	19	12064699	12081565	0.093487731	suppress_segment_too_large
ZNF845	19	53333746	53356906	0.206912349	PASS
ZNF846	19	9751993	9793180	0.093487731	suppress_segment_too_large
ZNF85	19	20923222	20950697	0.093487731	suppress_segment_too_large
ZNF850	19	36714383	36772825	0.093487731	suppress_segment_too_large
ZNF852	3	44494847	44510636	-0.234617007	PASS
ZNF853	7	6615617	6624290	-0.69513118	PASS
ZNF860	3	31981771	31991628	0.311018244	suppress_segment_too_large
ZNF862	7	149838367	149867479	-0.388946609	PASS
ZNF865	19	55605405	55617269	0.121336758	PASS
ZNF878	19	12043805	12052939	0.093487731	suppress_segment_too_large
ZNF879	5	179023752	179035064	-0.150979337	PASS
ZNF880	19	52369917	52385795	0.206912349	PASS
ZNF883	9	112997120	113050043	0.365190713	suppress_segment_too_large
ZNF888	19	52904417	52923481	0.206912349	PASS
ZNF891	12	133106817	133130473	0.270848837	PASS
ZNF90	19	20077994	20127076	0.093487731	suppress_segment_too_large
ZNF91	19	23304991	23395560	0.093487731	suppress_segment_too_large
ZNF92	7	65373799	65401135	-0.750061359	PASS
ZNF93	19	19900913	19963464	0.093487731	suppress_segment_too_large
ZNF98	19	22391019	22532485	0.093487731	suppress_segment_too_large
ZNF99	19	22752183	22784107	0.093487731	suppress_segment_too_large
ZNFX1	20	49237946	49278426	-0.168668583	PASS
ZNHIT1	7	101217668	101224190	-0.388946609	PASS
ZNHIT2	11	65116403	65117708	0.182439925	suppress_segment_too_large
ZNHIT3	17	36486629	36499310	0.060555011	PASS
ZNHIT6	1	85649423	85708433	0.033763446	PASS
ZNRD1	6	30058899	30064909	0.048820648	PASS
ZNRF1	16	74999030	75110994	-0.371357732	PASS
ZNRF2	7	30284307	30367692	-0.69513118	PASS
ZNRF3	22	28883592	29057487	-0.575930959	PASS
ZNRF4	19	5455431	5456856	0.079632875	PASS
ZP1	11	60867562	60875693	0.182439925	suppress_segment_too_large
ZP2	16	21197450	21214510	0.069936844	PASS
ZP3	7	76397518	76442071	-0.262778904	PASS
ZP4	1	237877864	237890922	-0.648598641	PASS
ZPBP	7	49850421	50121329	-0.750061359	PASS
ZPBP2	17	39868164	39877896	0.060555011	PASS
ZPLD1	3	102099244	102479841	0.313454204	suppress_segment_too_large
ZPR1	11	116773799	116788050	-0.356188624	PASS

ZRANB1	10	124942123	124988189	0.063874692	PASS
ZRANB2	1	71063291	71081297	0.033763446	PASS
ZRANB3	2	135136916	135531236	-0.475215623	PASS
ZRSR2	23	15790472	15823260	-0.012567603	PASS
ZSCAN1	19	58034032	58054631	0.063781462	PASS
ZSCAN10	16	3088890	3099317	0.069936844	PASS
ZSCAN12	6	28378955	28399734	0.048820648	PASS
ZSCAN16	6	28124560	28130082	0.048820648	PASS
ZSCAN18	19	58083838	58118427	0.063781462	PASS
ZSCAN2	15	84600986	84627796	-0.697600509	PASS
ZSCAN20	1	33472645	33496507	0.033763446	PASS
ZSCAN21	7	100049774	100065038	-0.262778904	PASS
ZSCAN22	19	58327019	58342332	0.063781462	PASS
ZSCAN23	6	28431930	28443502	0.048820648	PASS
ZSCAN25	7	99616946	99632407	-0.262778904	PASS
ZSCAN26	6	28267010	28278224	0.048820648	PASS
ZSCAN29	15	43358172	43371025	-0.396255771	PASS
ZSCAN30	18	35251058	35290245	-0.376397843	PASS
ZSCAN31	6	28324693	28356271	0.048820648	PASS
ZSCAN32	16	3382081	3401065	0.069936844	PASS
ZSCAN4	19	57668935	57679152	-0.180829161	PASS
ZSCAN5A	19	56219670	56368383	-0.180829161	PASS
ZSCAN5B	19	56189570	56197920	-0.180829161	PASS
ZSCAN5C	19	56202301	56209452	-0.180829161	PASS
ZSCAN9	6	28224886	28233482	0.048820648	PASS
ZSWIM1	20	45881227	45885266	-0.168668583	PASS
ZSWIM2	2	186827835	186849208	-0.169541924	PASS
ZSWIM3	20	45857617	45879122	-0.168668583	PASS
ZSWIM4	19	13795460	13832230	0.093487731	suppress_segment_too_large
ZSWIM5	1	45016399	45306209	0.033763446	PASS
ZSWIM6	5	61332273	61546170	-0.293443042	PASS
ZSWIM7	17	15976560	15999717	0.024610076	PASS
ZSWIM8	10	73785582	73801797	0.072405807	PASS
ZSWIM9	19	48170692	48197620	0.14996833	PASS
ZUP1	6	116635618	116668794	-0.368590549	PASS
ZW10	11	113733187	113773811	-0.356188624	PASS
ZWILCH	15	66504959	66550128	-0.697600509	PASS
ZWINT	10	56357228	56361275	0.072405807	PASS
ZXDA	23	57906708	57910820	-0.012567603	PASS
ZXDB	23	57591652	57597545	-0.012567603	PASS
ZXDC	3	126437601	126475919	0.313454204	suppress_segment_too_large
ZYG11A	1	52842511	52894998	0.033763446	PASS
ZYG11B	1	52726467	52827342	0.033763446	PASS
ZYX	7	143381080	143391111	-0.388946609	PASS
ZZEF1	17	4004445	4143020	0.128406487	PASS

Supplementary Table 2b. Copy Number Variant calls when compared to primary for NEPC.

Gene	Chromosome	Gene_start	Gene_end	Log2Ratio(NEPCtoPrimary)	Filter
A1BG	19	58345178	58353499	0.142581352	PASS
A1CF	10	50799409	50885675	-0.389033546	PASS
A2M	12	9067664	9116229	0.505438545	PASS
A2ML1	12	8822472	8887001	0.505438545	PASS
A3GALT2	1	33306766	33321098	0.048749694	PASS
A4GALT	22	42692112	42721298	-0.740245994	PASS
A4GNT	3	138123718	138132387	0.06434429	PASS
AAAS	12	53307456	53324864	-0.743220499	PASS
AACS	12	125065379	125143333	0.028722739	PASS
AADAC	3	151814037	151828488	0.02267528	PASS
AADACL2	3	151733916	151761339	0.02267528	PASS
AADACL3	1	12716115	12728759	0.048749694	PASS
AADACL4	1	12644547	12667086	0.048749694	PASS
AADAT	4	170060222	170091699	0.142431244	suppress_segment_too_large
AAGAB	15	67201033	67255195	-0.759380635	PASS
AAK1	2	69457997	69674349	-0.46122572	PASS
AAMDC	11	77821109	77918432	0.064535884	PASS
AAMP	2	218264123	218270257	0.011001208	PASS
AANAT	17	76453351	76470117	0.051798665	PASS
AAR2	20	36236459	36270918	-0.172056771	suppress_segment_too_large
AARD	8	116938199	116944487	0.493344802	suppress_segment_too_large
AARS	16	70252295	70289543	-0.423061015	PASS
AARS2	6	44299654	44313326	0.028532667	PASS
AARSD1	17	42950526	42964498	0.041294512	PASS
AASDH	4	56338287	56387508	0.115781418	suppress_segment_too_large
AASDHPP	11	106075501	106098710	0.029107301	PASS
AASS	7	122075647	122144280	-0.712149877	PASS
AATF	17	36948875	37056871	0.041294512	PASS
AATK	17	81117295	81166077	0.051798665	PASS
ABAT	16	8674565	8784575	0.053595371	PASS
ABCA1	9	104781002	104928237	0.073960965	PASS
ABCA10	17	69147214	69244846	0.051798665	PASS
ABCA12	2	214931542	215138428	0.011001208	PASS
ABCA13	7	48171458	48647496	-2.672778419	PASS
ABCA2	9	137007227	137028922	0.073960965	PASS
ABCA3	16	2275881	2340746	0.053595371	PASS
ABCA4	1	93992835	94121132	0.079255572	PASS
ABCA5	17	69244311	69327244	0.051798665	PASS
ABCA6	17	69078702	69141888	0.051798665	PASS
ABCA7	19	1040101	1065572	-0.071973357	PASS
ABCA8	17	68867292	68955392	0.051798665	PASS
ABCA9	17	68974488	69061064	0.051798665	PASS
ABCB1	7	87503633	87713323	-0.221864321	PASS
ABCB10	1	229516582	229558695	-0.204996646	suppress_segment_too_large
ABCB11	2	168915498	169031324	0.033541467	PASS
ABCB4	7	87401697	87480435	-0.221864321	PASS
ABCB5	7	20615207	20777038	-0.72421718	PASS
ABCB6	2	219209766	219219017	0.011001208	PASS
ABCB7	23	75051554	75156732	0.158844052	PASS
ABCB8	7	151028422	151047782	-0.712149877	PASS
ABCB9	12	122920951	122981649	0.028722739	PASS
ABCC1	16	15949577	16143074	0.053595371	PASS

ABCC10	6	43427366	43450430	0.028532667	PASS
ABCC11	16	48166910	48247568	0.053595371	PASS
ABCC12	16	48081006	48156018	0.053595371	PASS
ABCC2	10	99782640	99852594	-0.414937136	PASS
ABCC3	17	50634777	50692252	0.051798665	PASS
ABCC4	13	95019829	95301475	-0.384313056	PASS
ABCC5	3	183919934	184018015	0.02267528	PASS
ABCC6	16	16148928	16223522	0.053595371	PASS
ABCC8	11	17392498	17476879	-0.39835217	PASS
ABCC9	12	21797401	21942529	0.49032213	suppress_segment_too_large
ABCD1	23	153724868	153744762	0.158844052	PASS
ABCD2	12	39550033	39619751	-0.46813528	PASS
ABCD3	1	94418455	94518666	0.079255572	PASS
ABCD4	14	74285423	74303056	0.053252507	PASS
ABCE1	4	145097932	145129179	0.142431244	suppress_segment_too_large
ABCF1	6	30571376	30597179	0.069043418	PASS
ABCF2	7	151212490	151227230	-0.712149877	PASS
ABCF3	3	184186023	184194012	0.02267528	PASS
ABCG1	21	42199689	42297244	0.209983559	PASS
ABCG2	4	88090264	88231322	-0.677982248	PASS
ABCG4	11	119149012	119162653	-0.431650509	PASS
ABCG5	2	43812472	43838865	0.034263343	PASS
ABCG8	2	43831942	43882987	0.034263343	PASS
ABHD1	2	27123789	27130812	0.034263343	PASS
ABHD10	3	111979010	111993363	0.06434429	PASS
ABHD11	7	73736094	73738867	-0.701511252	PASS
ABHD12	20	25294743	25390983	-0.172056771	suppress_segment_too_large
ABHD12B	14	50872160	50904970	0.053252507	PASS
ABHD13	13	108218379	108234255	-0.426822582	PASS
ABHD14A	3	51971426	51981199	-0.727808231	PASS
ABHD14A	3	51974706	51989183	-0.727808231	PASS
ABHD14B	3	51968510	51983409	-0.727808231	PASS
ABHD15	17	29560547	29567137	0.041294512	PASS
ABHD16A	6	31686949	31703444	0.028532667	PASS
ABHD16B	20	63861498	63862988	-0.172056771	suppress_segment_too_large
ABHD17A	19	1876810	1885547	-0.071973357	PASS
ABHD17B	9	71862452	71910931	0.073960965	PASS
ABHD17C	15	80679684	80755621	-0.759380635	PASS
ABHD18	4	127965306	128039927	0.142431244	suppress_segment_too_large
ABHD2	15	89087459	89202360	-0.759380635	PASS
ABHD3	18	21650897	21704805	-0.330515409	PASS
ABHD4	14	22598237	22613215	0.053252507	PASS
ABHD5	3	43690108	43734371	-0.727808231	PASS
ABHD6	3	58237506	58295693	-0.727808231	PASS
ABHD8	19	17292131	17310236	-0.069222905	PASS
ABI1	10	26746593	26861087	0.075711544	PASS
ABI2	2	203328219	203447723	0.011001208	PASS
ABI3	17	49210227	49223225	0.051798665	PASS
ABI3BP	3	100749156	100993515	0.22470242	PASS
ABL1	9	130713946	130887675	0.073960965	PASS
ABL2	1	179099327	179229684	0.088103245	PASS
ABLIM1	10	114431113	114685003	0.073090211	PASS
ABLIM2	4	7965310	8158832	-0.358623662	PASS
ABLIM3	5	149141483	149260542	-0.393084436	PASS

ABO	9	133250401	133275219	0.073960965	PASS
ABR	17	1003518	1229738	0.06854245	PASS
ABRA	8	106759483	106770245	0.70944438	suppress_segment_too_large
ABRACL	6	139028682	139043302	0.033894706	PASS
ABRAXAS	4	83459517	83523348	-0.677982248	PASS
ABRAXAS	10	124801785	124836670	0.073090211	PASS
ABT1	6	26596952	26600744	0.069043418	PASS
ABTB1	3	127672935	127680920	0.06434429	PASS
ABTB2	11	34150988	34358008	-0.359426047	PASS
AC000120	7	92112159	92179511	-0.710463272	PASS
AC000120	7	92131774	92245924	-0.710463272	PASS
AC001226	13	76992078	77129589	-0.384313056	PASS
AC002094	17	28364288	28368012	0.041294512	PASS
AC002310	16	30534227	30558279	0.053595371	PASS
AC002310	16	30525923	30534852	0.053595371	PASS
AC002985	19	18907013	18934397	-0.069222905	PASS
AC002996	12	111753890	111791418	0.028722739	PASS
AC003002	19	57363566	57398584	0.142581352	PASS
AC003002	19	57394183	57438457	0.142581352	PASS
AC003002	19	57389884	57419994	0.142581352	PASS
AC003005	19	57487718	57505381	0.142581352	PASS
AC003006	19	57682045	57753575	0.142581352	PASS
AC003688	17	7246829	7262089	0.06854245	PASS
AC004076	19	57437970	57477536	0.142581352	PASS
AC004080	7	27163535	27180013	-0.72421718	PASS
AC004233	16	2988256	3002016	0.053595371	PASS
AC004593	7	29122340	29514667	-0.72421718	PASS
AC004687	17	58345206	58417595	0.051798665	PASS
AC004691	7	30852273	30923812	-0.72421718	PASS
AC004754	16	249547	269943	0.053595371	PASS
AC004805	17	65538102	65641033	0.051798665	PASS
AC004832	22	30409255	30428990	-0.740245994	PASS
AC004922	7	99325879	99394653	-0.710463272	PASS
AC004997	22	30285238	30299482	-0.740245994	PASS
AC005020	7	99558695	99607810	-0.710463272	PASS
AC005041	2	74393836	74421662	-0.46122572	PASS
AC005154	7	30497077	30550761	-0.72421718	PASS
AC005258	19	2269525	2341172	-0.071973357	PASS
AC005324	17	15571491	15651653	0.06854245	PASS
AC005324	17	15699692	15744778	0.06854245	PASS
AC005520	14	73851971	73932278	0.053252507	PASS
AC005670	17	46923133	47049932	0.051798665	PASS
AC005697	17	27798806	27893365	0.041294512	PASS
AC005702	17	59940908	59973101	0.051798665	PASS
AC005726	17	28455752	28614197	0.041294512	PASS
AC005779	19	45179822	45202444	0.002743503	PASS
AC005832	12	4604944	4662643	-0.015029783	PASS
AC005833	12	4649101	4774184	-0.015029783	PASS
AC005837	17	76732978	76738522	0.051798665	PASS
AC005943	19	1578339	1605445	-0.071973357	PASS
AC006030	2	74211604	74363377	-0.46122572	PASS
AC006059	3	42705756	42804518	-0.727808231	PASS
AC006064	12	6556886	6607367	-0.015029783	PASS
AC006254	3	52813282	52835729	-0.727808231	PASS

AC006486	19	42234583	42255132	0.048917043	PASS
AC006518	12	10881011	10884255	0.49032213	suppress_segment_too_large
AC006538	19	2717769	2740048	-0.071973357	PASS
AC006978	7	30362400	30412502	-0.72421718	PASS
AC007040	2	70939318	70995336	-0.46122572	PASS
AC007192	19	18153158	18178117	-0.069222905	PASS
AC007240	2	10122739	10199288	0.034263343	PASS
AC007326	22	18906238	18947732	-0.740245994	PASS
AC007375	14	77098311	77225462	-0.155273506	suppress_segment_too_large
AC007731	22	20429241	20446620	-0.740245994	PASS
AC007846	17	5772926	6080792	0.06854245	PASS
AC007998	18	35443871	35497940	-0.330515409	PASS
AC008012	12	4273762	4405490	-0.015029783	PASS
AC008073	2	24124366	24190436	0.034263343	PASS
AC008397	19	18207961	18255419	-0.069222905	PASS
AC008403	19	48465837	48472431	0.002743503	PASS
AC008481	19	11466240	11505698	-0.107594294	PASS
AC008537	19	40801297	40898282	0.048917043	PASS
AC008575	5	112827213	112867582	-0.393084436	PASS
AC008581	5	77030902	77152155	-0.393084436	PASS
AC008676	5	157341596	157460100	0.165341871	suppress_segment_too_large
AC008687	19	49022953	49036895	0.002743503	PASS
AC008687	19	49017496	49020523	0.002743503	PASS
AC008687	19	49055793	49065076	0.002743503	PASS
AC008695	5	131425891	131796983	-0.393084436	PASS
AC008750	19	51350373	51368099	0.002743503	PASS
AC008758	19	12461559	12551474	0.391988834	PASS
AC008758	19	12379189	12401274	0.391988834	PASS
AC008758	19	12391949	12441082	0.391988834	PASS
AC008758	19	12433103	12484816	0.391988834	PASS
AC008763	19	7629796	7643048	-0.071973357	PASS
AC008763	19	7678501	7682854	-0.071973357	PASS
AC008764	19	16479067	16628204	-0.069222905	PASS
AC008764	19	16577642	16660115	-0.069222905	PASS
AC008770	19	12017888	12052967	0.391988834	PASS
AC008770	19	11925075	11979290	0.391988834	PASS
AC008878	19	7507052	7519622	-0.071973357	PASS
AC008878	19	7533595	7540059	-0.071973357	PASS
AC008878	19	7382834	7472477	-0.071973357	PASS
AC008982	19	38817471	38840178	0.048917043	PASS
AC009086	16	29663279	29695144	0.053595371	PASS
AC009119	16	83908132	83951445	-0.423061015	PASS
AC009133	16	29812261	29820092	0.053595371	PASS
AC009163	16	75528532	75545428	-0.423061015	PASS
AC009163	16	75412684	75464706	-0.423061015	PASS
AC009336	2	176151085	176173097	0.033541467	PASS
AC009690	15	72284727	72375981	-0.759380635	PASS
AC009690	15	72266746	72319946	-0.759380635	PASS
AC009879	8	66430185	66445324	0.182873287	suppress_segment_too_large
AC009879	8	66432486	66518524	0.182873287	suppress_segment_too_large
AC010132	7	42909273	42932174	-0.72421718	PASS
AC010197	12	21536203	21657798	0.49032213	suppress_segment_too_large
AC010255	5	122129622	122183949	-0.393084436	PASS
AC010319	19	17436611	17460804	-0.069222905	PASS

AC010323	19	8308283	8321379	-0.071973357	PASS
AC010325	19	50776141	50793142	0.002743503	PASS
AC010326	19	57876765	57916591	0.142581352	PASS
AC010327	19	55154757	55160671	0.142581352	PASS
AC010422	19	12643831	12648397	-0.069222905	PASS
AC010422	19	12664828	12669397	-0.069222905	PASS
AC010422	19	12525720	12580975	0.391988834	PASS
AC010422	19	12668071	12681834	-0.069222905	PASS
AC010463	19	17267418	17282966	-0.069222905	PASS
AC010487	19	52880663	52962768	0.416834572	PASS
AC010522	19	57819719	57858941	0.142581352	PASS
AC010531	16	87302876	87334273	-0.423061015	PASS
AC010542	16	66469812	66517312	-0.423061015	PASS
AC010547	16	71447600	71489311	-0.423061015	PASS
AC010615	19	21405159	21491266	-0.069222905	PASS
AC010616	19	41907705	41928516	0.048917043	PASS
AC010616	19	41956879	41994232	0.048917043	PASS
AC010619	19	49462752	49486231	0.002743503	PASS
AC010646	19	17235940	17255448	-0.069222905	PASS
AC011005	7	129126518	129130793	-0.712149877	PASS
AC011195	17	58660424	58692018	0.051798665	PASS
AC011330	15	43614208	43632283	-0.423772929	PASS
AC011448	19	19516227	19536076	-0.069222905	PASS
AC011452	19	49909501	49958391	0.002743503	PASS
AC011455	19	38915404	38949855	0.048917043	PASS
AC011462	19	41350853	41425001	0.048917043	PASS
AC011473	19	50996018	51009581	0.002743503	PASS
AC011479	19	38289151	38304910	0.048917043	PASS
AC011498	19	4528427	4540067	-0.071973357	PASS
AC011499	19	5784005	5785619	-0.071973357	PASS
AC011511	19	10305427	10316009	-0.107594294	PASS
AC011511	19	10315471	10320678	-0.107594294	PASS
AC011530	19	45779437	45785973	0.002743503	PASS
AC011604	12	20815674	21090245	0.49032213	suppress_segment_too_large
AC012184	16	70299194	70372582	-0.423061015	PASS
AC012213	8	103398658	103501895	0.70944438	suppress_segment_too_large
AC012254	18	47108188	47176345	-0.330515409	PASS
AC012309	19	37093019	37210512	0.396324882	PASS
AC012476	15	40695129	40732158	-0.423772929	PASS
AC012531	12	53985845	54034888	-0.743220499	PASS
AC012651	15	42348103	42412317	-0.423772929	PASS
AC013394	15	92883413	92949230	-0.759380635	PASS
AC013470	7	12469621	12542222	-0.72421718	PASS
AC013489	15	88459501	88546585	-0.759380635	PASS
AC013717	2	44168851	44320310	0.034263343	PASS
AC015688	17	27623364	27640777	0.041294512	PASS
AC015802	17	76563710	76570544	0.051798665	PASS
AC015813	17	57989038	58007246	0.051798665	PASS
AC017083	2	68131238	68261230	-0.46122572	PASS
AC018362	15	42497395	42548786	-0.423772929	PASS
AC018512	15	43772617	43799133	-0.423772929	PASS
AC018523	11	14493783	14520344	-0.39835217	PASS
AC018554	16	60358455	60359480	-0.423061015	PASS
AC018709	4	186426546	186555328	0.275137421	PASS

AC018755	19	51612091	51646889	0.002743503	PASS
AC019117	7	17299295	17467234	-0.72421718	PASS
AC020636	3	150882997	150941743	0.02267528	PASS
AC020907	19	35106510	35124297	0.044838622	PASS
AC020909	19	50415799	50428409	0.002743503	PASS
AC020915	19	58278966	58315197	0.142581352	PASS
AC020915	19	58228914	58315183	0.142581352	PASS
AC020922	19	55352301	55359516	0.142581352	PASS
AC021097	7	151207837	151227166	-0.712149877	PASS
AC021097	7	151207837	151210378	-0.712149877	PASS
AC021660	3	98521133	98585498	0.22470242	PASS
AC022335	12	21047179	21176895	0.49032213	suppress_segment_too_large
AC022384	3	10249372	10285796	0.06149513	PASS
AC022400	10	73796514	73811651	0.032351597	PASS
AC022414	5	77086732	77427124	-0.393084436	PASS
AC022506	12	57517712	57520480	-0.743220499	PASS
AC022826	8	73688691	73878854	0.182873287	suppress_segment_too_large
AC023055	12	55757275	55827546	-0.743220499	PASS
AC023509	12	53506688	53625979	-0.743220499	PASS
AC024592	19	5866171	5903787	-0.071973357	PASS
AC025165	12	57773028	57787046	-0.743220499	PASS
AC025263	12	69801669	69855363	-0.578548701	PASS
AC025283	16	3382113	3397745	0.053595371	PASS
AC025283	16	3365099	3479550	0.053595371	PASS
AC026316	3	170418868	170860380	0.02267528	PASS
AC026398	5	131807143	131994278	-0.393084436	PASS
AC026464	16	69335276	69351730	-0.423061015	PASS
AC026464	16	69335091	69356306	-0.423061015	PASS
AC026464	16	69299682	69322700	-0.423061015	PASS
AC026464	16	69328644	69334871	-0.423061015	PASS
AC026786	12	133130984	133202369	0.232349073	PASS
AC026954	17	7312661	7319174	0.06854245	PASS
AC027644	7	66628958	66811189	-0.701511252	PASS
AC027796	17	3585149	3636249	0.06854245	PASS
AC034102	12	56101331	56109289	-0.743220499	PASS
AC036214	8	79918860	80080775	0.617295349	suppress_segment_too_large
AC037459	8	22589274	22602084	-0.311940419	PASS
AC040162	16	67929614	67936017	-0.423061015	PASS
AC046185	17	63702845	63752097	0.051798665	PASS
AC048338	12	122207779	122266423	0.028722739	PASS
AC055811	17	17202649	17237185	0.06854245	PASS
AC058822	4	53377839	54295272	0.115781418	suppress_segment_too_large
AC067752	10	62520448	62672011	0.032351597	PASS
AC067968	19	44025354	44087318	0.415645458	PASS
AC068234	17	47253897	47344292	0.051798665	PASS
AC068533	7	66087761	66152277	-0.701511252	PASS
AC068547	2	151802651	151973949	-0.30549516	PASS
AC068580	11	1734821	1763954	-0.39835217	PASS
AC068631	3	186581995	186597103	0.02267528	PASS
AC068775	12	10412312	10436001	0.505438545	PASS
AC068790	12	123973944	124088594	0.028722739	PASS
AC068831	15	90966190	91022566	-0.759380635	PASS
AC068896	10	124617080	124791727	0.073090211	PASS
AC068946	2	219075329	219170827	0.011001208	PASS

AC068946	2	219209772	219222738	0.011001208	PASS
AC069257	3	196248230	196318222	0.02267528	PASS
AC069368	15	64841883	64930920	-0.759380635	PASS
AC069444	3	119703076	119807570	0.06434429	PASS
AC069503	12	121888809	121921470	0.028722739	PASS
AC073082	2	48632291	48755724	0.034263343	PASS
AC073111	7	150368790	150396915	-0.712149877	PASS
AC073111	7	150400702	150412470	-0.712149877	PASS
AC073283	2	47065941	47176511	0.034263343	PASS
AC073508	17	40627356	40665141	0.041294512	PASS
AC073610	12	48921963	48939663	-0.743220499	PASS
AC073610	12	48903503	48957365	-0.743220499	PASS
AC073612	12	71674204	71698968	-0.578548701	PASS
AC073896	12	56285916	56316059	-0.743220499	PASS
AC074143	16	67163385	67165815	-0.423061015	PASS
AC078927	12	66123917	66169985	-0.743220499	PASS
AC079447	2	99141485	99322741	0.064122364	PASS
AC079594	3	160227454	160449829	0.02267528	PASS
AC083800	3	119147375	119187807	0.06434429	PASS
AC084337	11	6481485	6508978	-0.39835217	PASS
AC087289	17	75898645	75930129	0.051798665	PASS
AC087632	15	64181180	64381440	-0.759380635	PASS
AC087721	15	41284013	41380743	-0.423772929	PASS
AC090004	3	14135217	14148252	0.06149513	PASS
AC090227	18	49795793	49837623	-0.330515409	PASS
AC090360	18	80034346	80097088	-0.330515409	PASS
AC090517	15	56652488	56918571	-0.759380635	PASS
AC090527	15	45587351	45676314	-0.423772929	PASS
AC091057	15	30624548	30685606	-0.423772929	PASS
AC091167	15	90249556	90272208	-0.759380635	PASS
AC091167	15	90266317	90314499	-0.759380635	PASS
AC091167	15	90234200	90265462	-0.759380635	PASS
AC091551	18	50968019	51058144	-0.330515409	PASS
AC091959	5	146203550	146339251	-0.393084436	PASS
AC092017	1	211082872	211188533	-0.204996646	suppress_segment_too_large
AC092042	3	42809446	43055871	-0.727808231	PASS
AC092073	19	34396315	34409364	0.044838622	PASS
AC092111	12	8138140	8175320	-0.015029783	PASS
AC092143	16	89919165	89936092	-0.423061015	PASS
AC092329	19	23222755	23274221	0.044838622	PASS
AC092442	4	6064977	6070162	-0.358623662	PASS
AC092587	2	99154998	99195298	0.064122364	PASS
AC092647	7	55887277	55955239	-0.701511252	PASS
AC092718	16	81053587	81096296	-0.423061015	PASS
AC092718	16	81022316	81096284	-0.423061015	PASS
AC092835	2	95207535	95259774	0.064122364	PASS
AC093155	1	86993009	87169204	0.079255572	PASS
AC093227	19	37689865	37719188	0.396324882	PASS
AC093423	1	89633140	89933250	0.079255572	PASS
AC093512	16	30053090	30070420	0.053595371	PASS
AC093525	16	2513965	2527955	0.053595371	PASS
AC093525	16	2496032	2520218	0.053595371	PASS
AC093668	7	102541501	102592444	-0.712149877	PASS
AC093668	7	102483344	102543764	-0.712149877	PASS

AC093827	4	86886472	86936178	-0.677982248	PASS
AC093899	2	169479480	169525922	0.033541467	PASS
AC096887	3	52969119	53099453	-0.727808231	PASS
AC097104	12	56449700	56488170	-0.743220499	PASS
AC097625	23	15561047	15675608	0.158844052	PASS
AC097634	3	70959226	71754229	-0.727808231	PASS
AC097636	3	51798803	51830856	-0.727808231	PASS
AC097637	3	52221081	52231190	-0.727808231	PASS
AC098484	1	42767292	42794493	-0.736943052	PASS
AC098582	4	88523810	88649847	-0.677982248	PASS
AC098588	4	144210701	145098174	0.142431244	suppress_segment_too_large
AC098650	3	28349178	29767537	0.06149513	PASS
AC098850	17	16690261	16804453	0.06854245	PASS
AC099489	16	11359845	11527245	0.053595371	PASS
AC099811	17	42119674	42154916	0.041294512	PASS
AC099850	17	59197566	59215226	0.051798665	PASS
AC100868	8	132024238	132085655	0.493344802	suppress_segment_too_large
AC104109	5	134167170	134226071	-0.393084436	PASS
AC104151	16	76553417	76819624	-0.423061015	PASS
AC104304	3	46581150	46617226	-0.727808231	PASS
AC104389	11	5254392	5678434	-0.39835217	PASS
AC104389	11	5248270	5254783	-0.39835217	PASS
AC104452	3	49416777	49429314	-0.727808231	PASS
AC104472	3	155763043	155854442	0.02267528	PASS
AC104532	19	5904841	5914707	-0.071973357	PASS
AC104581	17	7925931	7930622	0.06854245	PASS
AC104662	4	25160663	25277306	-0.358623662	PASS
AC105052	7	102582523	102642869	-0.712149877	PASS
AC105052	7	102637049	102671641	-0.712149877	PASS
AC106774	5	17491325	17491769	0.073527871	PASS
AC106886	16	30704067	30745169	0.053595371	PASS
AC107871	15	68184032	68229718	-0.759380635	PASS
AC107959	8	23084403	23115536	-0.311940419	PASS
AC108488	2	3531984	3547957	0.034263343	PASS
AC108941	4	69810780	69847786	0.115781418	suppress_segment_too_large
AC109583	3	46742092	46812558	-0.727808231	PASS
AC110275	8	43018424	43077334	0.182873287	suppress_segment_too_large
AC112128	3	113361901	113515151	0.06434429	PASS
AC112229	2	110402934	110473075	0.040971718	PASS
AC112504	3	141738474	141807919	-0.889410434	PASS
AC113348	5	178694605	178729335	0.165341871	suppress_segment_too_large
AC113554	17	63484823	63521848	0.051798665	PASS
AC114490	1	34981533	35031741	0.048749694	PASS
AC114490	1	34974356	34985313	0.048749694	PASS
AC115220	7	63998874	64016130	-0.701511252	PASS
AC116366	5	132410832	132646079	-0.393084436	PASS
AC117378	12	56714612	56741535	-0.743220499	PASS
AC117457	3	178419123	178843300	0.02267528	PASS
AC118470	1	247711813	247723764	-0.145670469	suppress_likely_unfocal_large_gain
AC118549	1	77562416	77683419	0.052232535	PASS
AC118553	1	99970011	100083321	0.079255572	PASS
AC119396	19	7348943	7383385	-0.071973357	PASS
AC119674	1	56173433	56524495	-0.736943052	PASS
AC120057	17	7240427	7244635	0.06854245	PASS

AC120114	16	29817239	29830627	0.053595371	PASS
AC124312	15	24955034	25000276	-0.423772929	PASS
AC126283	4	109713916	109801999	-0.677982248	PASS
AC126755	16	18358086	18379331	0.053595371	PASS
AC127029	17	63917203	63931385	0.051798665	PASS
AC129492	17	8150816	8162975	0.06854245	PASS
AC131160	3	183815568	183884889	0.02267528	PASS
AC134669	17	31305213	31318831	0.041294512	PASS
AC134684	8	7579644	7582653	-0.311940419	PASS
AC134980	15	22015233	22095857	-0.423772929	PASS
AC135050	16	31083439	31094956	0.053595371	PASS
AC135068	15	21637909	21638992	-0.423772929	PASS
AC135178	17	8368638	8383187	0.06854245	PASS
AC136428	16	33844784	33845229	0.053595371	PASS
AC137834	12	57249609	57296484	-0.743220499	PASS
AC138696	8	143247110	143276403	0.699132336	PASS
AC138811	16	18788063	18801519	0.053595371	PASS
AC138894	16	28456371	28492098	0.053595371	PASS
AC139491	5	176063748	176126959	0.165341871	suppress_segment_too_large
AC139530	17	81703371	81720539	0.051798665	PASS
AC140504	16	15395754	15515348	0.053595371	PASS
AC142391	5	139442316	139462707	-0.393084436	PASS
AC144573	8	37934340	37965953	0.182873287	suppress_segment_too_large
AC233992	8	144353228	144355609	0.699132336	PASS
AC235565	23	102360395	102471812	0.158844052	PASS
AC239799	1	146113652	146229000	0.079255572	PASS
AC243547	1	145927258	145977811	0.079255572	PASS
AC243756	1	146344131	146344790	0.079255572	PASS
AC243967	19	41708612	41761282	0.048917043	PASS
AC244197	23	149482543	149533935	0.158844052	PASS
AC244517	5	141223372	141245861	-0.393084436	PASS
AC245033	15	82536788	82573194	-0.759380635	PASS
AC245748	19	44329695	44401608	0.415645458	PASS
AC253536	22	23971378	23980469	-0.740245994	PASS
ACAA1	3	38103129	38137242	-0.727808231	PASS
ACAA2	18	49782167	49813960	-0.330515409	PASS
ACACA	17	37084988	37406818	0.041294512	PASS
ACACB	12	109116595	109268226	0.028722739	PASS
ACAD10	12	111686056	111757107	0.028722739	PASS
ACAD11	3	132558138	132660723	0.06434429	PASS
ACAD8	11	134253495	134265855	0.105032849	PASS
ACAD9	3	128879596	128916067	0.06434429	PASS
ACADL	2	210187939	210225491	0.011001208	PASS
ACADM	1	75724347	75787575	0.052232535	PASS
ACADS	12	120725735	120740008	0.028722739	PASS
ACADSB	10	123008979	123058311	0.073090211	PASS
ACADVL	17	7217125	7225273	0.06854245	PASS
ACAN	15	88803442	88875354	-0.759380635	PASS
ACAP1	17	7336529	7351478	0.06854245	PASS
ACAP2	3	195274736	195443078	0.02267528	PASS
ACAP3	1	1292376	1309609	-0.358281697	PASS
ACAT1	11	108121516	108147776	-0.431650509	PASS
ACAT2	6	159760328	159779055	0.033894706	PASS
ACBD3	1	226144679	226186730	-0.204996646	suppress_segment_too_large

ACBD4	17	45132600	45144181	0.051798665	PASS
ACBD5	10	27195214	27242130	0.075711544	PASS
ACBD6	1	180269653	180502954	0.088103245	PASS
ACBD7	10	15077523	15088776	0.075711544	PASS
ACCS	11	44065925	44084222	0.059795455	PASS
ACCSL	11	44047981	44059977	0.059795455	PASS
ACD	16	67657512	67660815	-0.423061015	PASS
ACE	17	63477061	63498380	0.051798665	PASS
ACE2	23	15561033	15602148	0.158844052	PASS
ACER1	19	6306142	6333629	-0.071973357	PASS
ACER2	9	19409059	19452020	0.073960965	PASS
ACER3	11	76860867	77026797	0.064535884	PASS
ACHE	7	100889994	100896974	-0.710463272	PASS
ACIN1	14	23058564	23095614	0.053252507	PASS
ACKR1	1	159203307	159206500	0.088103245	PASS
ACKR2	3	42804752	42887974	-0.727808231	PASS
ACKR3	2	236567787	236582358	0.011001208	PASS
ACKR4	3	132597237	132618967	0.06434429	PASS
ACLY	17	41866908	41930542	0.041294512	PASS
ACMSD	2	134838547	134902034	-0.359440172	PASS
ACO1	9	32384603	32454769	0.073960965	PASS
ACO2	22	41469125	41528989	-0.740245994	PASS
ACOD1	13	76948497	76958642	-0.384313056	PASS
ACOT1	14	73537114	73543794	0.053252507	PASS
ACOT11	1	54542257	54639192	-0.736943052	PASS
ACOT12	5	81330005	81394179	-0.393084436	PASS
ACOT13	6	24667035	24705065	0.069043418	PASS
ACOT2	14	73567620	73575658	0.053252507	PASS
ACOT4	14	73591706	73596496	0.053252507	PASS
ACOT6	14	73610945	73619888	0.053252507	PASS
ACOT7	1	6264269	6394391	0.364796772	PASS
ACOT8	20	45841721	45857406	-0.172056771	suppress_segment_too_large
ACOT9	23	23702253	23766475	0.158844052	PASS
ACOX1	17	75941507	75979363	0.051798665	PASS
ACOX2	3	58505136	58537319	-0.727808231	PASS
ACOX3	4	8366282	8440723	-0.358623662	PASS
ACOXL	2	110732573	111118222	0.040971718	PASS
ACP1	2	264140	278283	0.034263343	PASS
ACP2	11	47239302	47248906	0.059795455	PASS
ACP4	19	50790415	50795224	0.002743503	PASS
ACP5	19	11574660	11579008	-0.107594294	PASS
ACP6	1	147629652	147670496	0.079255572	PASS
ACP7	19	39083913	39111493	0.048917043	PASS
ACPP	3	132317367	132368298	0.06434429	PASS
ACR	22	50738196	50745334	-0.953096644	PASS
ACRBP	12	6638075	6647460	-0.015029783	PASS
ACRV1	11	125671522	125681123	-0.431650509	PASS
ACSBG1	15	78167468	78245688	-0.759380635	PASS
ACSBG2	19	6135247	6193094	-0.071973357	PASS
ACSF2	17	50426158	50474845	0.051798665	PASS
ACSF3	16	89088375	89164121	-0.423061015	PASS
ACSL1	4	184755595	184826818	-0.453876349	PASS
ACSL3	2	222860934	222944639	0.011001208	PASS
ACSL4	23	109624244	109733403	0.158844052	PASS

ACSL5	10	112374018	112428380	0.073090211	PASS
ACSL6	5	131949973	132012243	-0.393084436	PASS
ACSM1	16	20623237	20698890	0.053595371	PASS
ACSM2A	16	20451461	20487667	0.053595371	PASS
ACSM2B	16	20536226	20576427	0.053595371	PASS
ACSM3	16	20610243	20797581	0.053595371	PASS
ACSM4	12	7304284	7328724	-0.015029783	PASS
ACSM5	16	20409534	20441336	0.053595371	PASS
ACSM6	10	95194200	95228928	-0.414937136	PASS
ACSS1	20	25006230	25058980	-0.172056771	suppress_segment_too_large
ACSS2	20	34872146	34927962	-0.172056771	suppress_segment_too_large
ACSS3	12	80936414	81261205	0.271127429	suppress_segment_too_large
ACTA1	1	229431245	229434098	-0.204996646	suppress_segment_too_large
ACTA2	10	88935074	88991339	-2.417109027	suppress_large_homdel
ACTB	7	5527147	5563784	-0.72421718	PASS
ACTBL2	5	57480016	57482809	-0.284712224	PASS
ACTC1	15	34788095	34795726	-0.423772929	PASS
ACTG1	17	81509971	81523847	0.051798665	PASS
ACTG2	2	73892314	73919865	-0.46122572	PASS
ACTL10	20	33666498	33668525	-0.172056771	suppress_segment_too_large
ACTL6A	3	179562880	179588408	0.02267528	PASS
ACTL6B	7	100643097	100656461	-0.710463272	PASS
ACTL7A	9	108862266	108863759	0.073960965	PASS
ACTL7B	9	108854589	108856967	0.073960965	PASS
ACTL8	1	17755313	17827063	0.048749694	PASS
ACTL9	19	8697397	8698822	-0.071973357	PASS
ACTN1	14	68874143	68979440	0.053252507	PASS
ACTN2	1	236686454	236764631	-0.204996646	suppress_segment_too_large
ACTN3	11	66546395	66563329	0.064535884	PASS
ACTN4	19	38647649	38731583	0.048917043	PASS
ACTR10	14	58200080	58235636	0.053252507	PASS
ACTR1A	10	102461881	102502711	-0.414937136	PASS
ACTR1B	2	97655963	97664107	0.064122364	PASS
ACTR2	2	65227753	65271253	-0.46122572	PASS
ACTR3	2	113889960	113962596	0.040971718	PASS
ACTR3B	7	152759749	152855378	-0.77630473	PASS
ACTR3C	7	150243916	150323725	-0.712149877	PASS
ACTR5	20	38748442	38772520	-0.172056771	suppress_segment_too_large
ACTR6	12	100199122	100241865	0.028722739	PASS
ACTR8	3	53867066	53882202	-0.727808231	PASS
ACTRT1	23	128050962	128052398	0.158844052	PASS
ACTRT2	1	3021483	3022903	-0.358281697	PASS
ACTRT3	3	169766921	169769895	0.02267528	PASS
ACVR1	2	157736444	157875862	0.054749241	PASS
ACVR1B	12	51951667	51997078	-0.743220499	PASS
ACVR1C	2	157526767	157629005	0.054749241	PASS
ACVR2A	2	147844517	147930826	-0.30549516	PASS
ACVR2B	3	38453851	38493142	-0.727808231	PASS
ACVRL1	12	51906908	51923361	-0.743220499	PASS
ACY1	3	51983278	51989202	-0.727808231	PASS
ACY3	11	67642555	67650659	0.064535884	PASS
ACYP1	14	75053221	75069483	-0.155273506	suppress_segment_too_large
ACYP2	2	53970838	54305300	0.034263343	PASS
AD000671	19	35745678	35754519	0.044838622	PASS

AD000671	19	35739252	35745432	0.044838622	PASS
ADA	20	44619522	44652233	-0.172056771	suppress_segment_too_large
ADA2	22	17178790	17258235	-0.740245994	PASS
ADAD1	4	122378966	122429802	0.142431244	suppress_segment_too_large
ADAD2	16	84191138	84197168	-0.423061015	PASS
ADAL	15	43330657	43354555	-0.423772929	PASS
ADAM10	15	58588807	58749978	-0.759380635	PASS
ADAM11	17	44759031	44781846	0.051798665	PASS
ADAM12	10	126012381	126388455	0.073090211	PASS
ADAM15	1	155050566	155062775	0.088103245	PASS
ADAM17	2	9488486	9556732	0.034263343	PASS
ADAM18	8	39584489	39730064	0.182873287	suppress_segment_too_large
ADAM19	5	157395534	157575775	0.165341871	suppress_segment_too_large
ADAM2	8	39743735	39838289	0.182873287	suppress_segment_too_large
ADAM20	14	70522358	70535015	0.053252507	PASS
ADAM21	14	70452157	70459899	0.053252507	PASS
ADAM22	7	87934143	88202889	-0.221864321	PASS
ADAM23	2	206443539	206621130	0.011001208	PASS
ADAM28	8	24294040	24359018	-0.311940419	PASS
ADAM29	4	174829668	174978180	0.142431244	suppress_segment_too_large
ADAM30	1	119893533	119896495	0.079255572	PASS
ADAM32	8	39106990	39284911	0.182873287	suppress_segment_too_large
ADAM33	20	3667965	3682246	-0.172056771	suppress_segment_too_large
ADAM7	8	24440930	24526970	-0.311940419	PASS
ADAM8	10	133262403	133276868	0.073090211	PASS
ADAM9	8	38996869	39105144	0.182873287	suppress_segment_too_large
ADAMDE	8	24384285	24406013	-0.311940419	PASS
ADAMTS	21	26835747	26845409	0.209983559	PASS
ADAMTS	19	8580242	8610735	-0.071973357	PASS
ADAMTS	5	33523535	33892192	0.073527871	PASS
ADAMTS	9	133414358	133459402	0.073960965	PASS
ADAMTS	10	70672803	70762441	0.032351597	PASS
ADAMTS	11	130448974	130476641	-0.431650509	PASS
ADAMTS	5	5140330	5320304	0.073527871	PASS
ADAMTS	15	99971589	100342005	-0.759380635	PASS
ADAMTS	16	77247813	77435114	-0.423061015	PASS
ADAMTS	5	129460265	129738683	-0.393084436	PASS
ADAMTS2	5	179110851	179345430	0.165341871	suppress_segment_too_large
ADAMTS2	12	43353866	43551921	-0.46813528	PASS
ADAMTS3	4	72280969	72569386	0.115781418	suppress_segment_too_large
ADAMTS4	1	161184308	161199056	0.088103245	PASS
ADAMTS5	21	26917912	26966513	0.209983559	PASS
ADAMTS6	5	65148736	65481920	-0.393084436	PASS
ADAMTS7	15	78759203	78811431	-0.759380635	PASS
ADAMTS8	11	130404925	130428993	-0.431650509	PASS
ADAMTS9	3	64515654	64688000	-0.727808231	PASS
ADAMTSI	9	17906563	18910950	0.073960965	PASS
ADAMTSI	9	133532164	133575519	0.073960965	PASS
ADAMTSI	15	83654086	84039842	-0.759380635	PASS
ADAMTSI	1	150549369	150560937	0.079255572	PASS
ADAMTSI	19	1505018	1513604	-0.071973357	PASS
ADAP1	7	897901	955407	-0.72421718	PASS
ADAP2	17	30906344	30959322	0.041294512	PASS
ADAR	1	154582057	154628013	0.088103245	PASS

ADARB1	21	45073853	45226560	0.209983559	PASS
ADARB2	10	1177318	1737476	0.075711544	PASS
ADAT1	16	75596981	75623300	-0.423061015	PASS
ADAT2	6	143422832	143450673	0.033894706	PASS
ADAT3	19	1905378	1913447	-0.071973357	PASS
ADCK1	14	77800083	77935012	-0.155273506	suppress_segment_too_large
ADCK2	7	140673153	140696261	-0.712149877	PASS
ADCK5	8	144373101	144393242	0.699132336	PASS
ADCY1	7	45574140	45723116	-0.72421718	PASS
ADCY10	1	167809388	167914215	0.088103245	PASS
ADCY2	5	7396208	7830081	0.073527871	PASS
ADCY3	2	24819169	24919839	0.034263343	PASS
ADCY4	14	24318349	24335093	0.053252507	PASS
ADCY5	3	123282296	123449758	0.06434429	PASS
ADCY6	12	48766194	48789037	-0.743220499	PASS
ADCY7	16	50246137	50318135	0.411512417	PASS
ADCY8	8	130780301	131042426	0.493344802	suppress_segment_too_large
ADCY9	16	3953387	4116185	0.053595371	PASS
ADCYAP1	18	904943	912172	0.044197172	PASS
ADCYAP1	7	31052461	31111479	-0.72421718	PASS
ADD1	4	2843857	2930076	-0.358623662	PASS
ADD2	2	70607618	70768225	-0.46122572	PASS
ADD3	10	109996368	110135565	0.073090211	PASS
ADGB	6	146598965	146815462	0.033894706	PASS
ADGRA1	10	133070929	133131675	0.073090211	PASS
ADGRA2	8	37784191	37844896	0.182873287	suppress_segment_too_large
ADGRA3	4	22345071	22516054	-0.358623662	PASS
ADGRB1	8	142449430	142545009	0.699132336	PASS
ADGRB2	1	31727117	31764893	0.048749694	PASS
ADGRB3	6	68635367	69389511	-0.250122709	PASS
ADGRD1	12	130953907	131141469	0.028722739	PASS
ADGRD2	9	124451425	124478589	0.073960965	PASS
ADGRE1	19	6887566	6940459	-0.071973357	PASS
ADGRE2	19	14732393	14778541	-0.069222905	PASS
ADGRE3	19	14619117	14690027	-0.069222905	PASS
ADGRE5	19	14380501	14408725	-0.069222905	PASS
ADGRF1	6	46997703	47042363	0.239805577	suppress_segment_too_large
ADGRF2	6	47656436	47697797	0.239805577	suppress_segment_too_large
ADGRF3	2	26308173	26346817	0.034263343	PASS
ADGRF4	6	47685864	47722021	0.239805577	suppress_segment_too_large
ADGRF5	6	46852512	46954943	0.239805577	suppress_segment_too_large
ADGRG1	16	57610652	57665580	-0.423061015	PASS
ADGRG2	23	18989309	19122637	0.158844052	PASS
ADGRG3	16	57668187	57689378	-0.423061015	PASS
ADGRG4	23	136300963	136416888	0.158844052	PASS
ADGRG5	16	57542421	57591681	-0.423061015	PASS
ADGRG6	6	142301854	142446266	0.033894706	PASS
ADGRG7	3	100609589	100695479	0.22470242	PASS
ADGRL1	19	14147743	14206187	-0.069222905	PASS
ADGRL2	1	81306160	81992436	0.587598296	PASS
ADGRL3	4	61201258	62078335	0.115781418	suppress_segment_too_large
ADGRL4	1	78889764	79006718	0.587598296	PASS
ADGRV1	5	90529344	91164437	-0.393084436	PASS
ADH1A	4	99276367	99291028	-0.677982248	PASS

ADH1B	4	99304964	99352760	-0.677982248	PASS
ADH1C	4	99336492	99353027	-0.677982248	PASS
ADH4	4	99123657	99157792	-0.677982248	PASS
ADH5	4	99070978	99088801	-0.677982248	PASS
ADH6	4	99202638	99219537	-0.677982248	PASS
ADH7	4	99412261	99435737	-0.677982248	PASS
ADHFE1	8	66432486	66468907	0.182873287	suppress_segment_too_large
ADI1	2	3497361	3519736	0.034263343	PASS
ADIG	20	38581195	38588463	-0.172056771	suppress_segment_too_large
ADIPOQ	3	186842690	186858463	0.02267528	PASS
ADIPOR1	1	202940823	202958572	-0.204996646	suppress_segment_too_large
ADIPOR2	12	1688574	1788678	-0.015029783	PASS
ADIRF	10	86968192	86983934	-0.461254852	PASS
ADK	10	74151185	74709303	0.032351597	PASS
ADM	11	10304680	10307397	-0.39835217	PASS
ADM2	22	50481556	50486440	-0.953096644	PASS
ADM5	19	49688664	49690575	0.002743503	PASS
ADNP	20	50888916	50931421	-0.172056771	suppress_segment_too_large
ADNP2	18	80109031	80147523	-0.330515409	PASS
ADO	10	62804857	62808483	0.032351597	PASS
ADORA1	1	203090654	203167405	-0.204996646	suppress_segment_too_large
ADORA2A	22	24417879	24442360	-0.740245994	PASS
ADORA2B	17	15944917	15975746	0.06854245	PASS
ADORA3	1	111499429	111503760	0.079255572	PASS
ADPGK	15	72751369	72785846	-0.759380635	PASS
ADPRH	3	119579268	119589945	0.06434429	PASS
ADPRHL1	13	113399610	113453524	-0.426822582	PASS
ADPRHL2	1	36088875	36093932	0.048749694	PASS
ADPRM	17	10697594	10711233	0.06854245	PASS
ADRA1A	8	26748150	26867273	-0.311940419	PASS
ADRA1B	5	159865080	159972544	0.165341871	suppress_segment_too_large
ADRA1D	20	4220631	4249074	-0.172056771	suppress_segment_too_large
ADRA2A	10	111077163	111080907	0.073090211	PASS
ADRA2B	2	96112875	96116245	0.064122364	PASS
ADRA2C	4	3766348	3768526	-0.358623662	PASS
ADRB1	10	114044056	114046908	0.073090211	PASS
ADRB2	5	148825245	148828687	-0.393084436	PASS
ADRB3	8	37962991	37966965	0.182873287	suppress_segment_too_large
ADRM1	20	62302093	62308862	-0.172056771	suppress_segment_too_large
ADSL	22	40346500	40390463	-0.740245994	PASS
ADSS	1	244408494	244452134	-0.145670469	suppress_likely_unfocal_large_gain
ADSSL1	14	104724186	104747325	-0.155273506	suppress_segment_too_large
ADTRP	6	11712054	11807046	0.069043418	PASS
AEBP1	7	44104361	44114562	-0.72421718	PASS
AEBP2	12	19404045	19720801	0.49032213	suppress_segment_too_large
AEN	15	88621296	88632282	-0.759380635	PASS
AES	19	3052910	3063107	-0.071973357	PASS
AF241726.	23	37349330	38687674	0.158844052	PASS
AFAP1	4	7758714	7939926	-0.358623662	PASS
AFAP1L1	5	149271871	149341802	-0.393084436	PASS
AFAP1L2	10	114294824	114404756	0.073090211	PASS
AFDN	6	167826922	167972023	0.033894706	PASS
AFF1	4	86935002	87141054	-0.677982248	PASS
AFF2	23	148500619	149000663	0.158844052	PASS

AFF3	2	99545419	100142739	0.064122364	PASS
AFF4	5	132875379	132963634	-0.393084436	PASS
AFG1L	6	108294894	108526796	-0.355603029	PASS
AFG3L2	18	12328944	12377314	0.044197172	PASS
AFM	4	73481683	73504001	0.115781418	suppress_segment_too_large
AFMID	17	78187317	78207701	0.051798665	PASS
AFP	4	73431138	73456174	0.115781418	suppress_segment_too_large
AFTPH	2	64524305	64593005	-0.46122572	PASS
AGA	4	177430770	177442503	0.142431244	suppress_segment_too_large
AGAP1	2	235494089	236131800	0.011001208	PASS
AGAP2	12	57723761	57742157	-0.743220499	PASS
AGAP3	7	151085831	151144436	-0.712149877	PASS
AGAP4	10	45825594	45853875	-0.389033546	PASS
AGAP5	10	73674285	73698159	0.032351597	PASS
AGAP6	10	49982190	50010499	-0.389033546	PASS
AGAP9	10	47501854	47523638	-0.389033546	PASS
AGBL1	15	86079973	87029052	-0.759380635	PASS
AGBL2	11	47659591	47715389	0.059795455	PASS
AGBL3	7	134986508	135147963	-0.712149877	PASS
AGBL4	1	48532855	50023913	-0.736943052	PASS
AGBL5	2	27042364	27070622	0.034263343	PASS
AGER	6	32180968	32184324	0.028532667	PASS
AGFG1	2	227472152	227561214	0.011001208	PASS
AGFG2	7	100539211	100568219	-0.710463272	PASS
AGGF1	5	77029251	77065234	-0.393084436	PASS
AGK	7	141551189	141655244	-0.712149877	PASS
AGL	1	99850084	99924023	0.079255572	PASS
AGMAT	1	15572353	15585110	0.048749694	PASS
AGMO	7	15200318	15562015	-0.72421718	PASS
AGO1	1	35869808	35930528	0.048749694	PASS
AGO2	8	140520156	140635619	0.493344802	suppress_segment_too_large
AGO3	1	35930718	36072500	0.048749694	PASS
AGO4	1	35808172	35857890	0.048749694	PASS
AGPAT1	6	32168212	32178096	0.028532667	PASS
AGPAT2	9	136673143	136687423	0.073960965	PASS
AGPAT3	21	43865186	43986536	0.209983559	PASS
AGPAT4	6	161129979	161274061	0.033894706	PASS
AGPAT5	8	6708357	6759666	-0.311940419	PASS
AGPS	2	177392644	177559299	0.033541467	PASS
AGR2	7	16791811	16833433	-0.72421718	PASS
AGR3	7	16859405	16881987	-0.72421718	PASS
AGRN	1	1020123	1056118	-0.358281697	PASS
AGRP	16	67482571	67483813	-0.423061015	PASS
AGT	1	230702523	230714297	-0.204996646	suppress_segment_too_large
AGTPBP1	9	85546539	85742029	0.073960965	PASS
AGTR1	3	148697784	148743008	0.02267528	PASS
AGTR2	23	116170722	116174972	0.158844052	PASS
AGTRAP	1	11736084	11754802	0.364796772	PASS
AGXT	2	240868479	240880502	0.011001208	PASS
AGXT2	5	34998101	35048135	0.073527871	PASS
AHCTF1	1	246839098	246931967	-0.145670469	suppress_likely_unfocal_large_gain
AHCY	20	34280268	34311802	-0.172056771	suppress_segment_too_large
AHCYL1	1	109984686	110023741	0.079255572	PASS
AHCYL2	7	129225023	129430211	-0.712149877	PASS

AHDC1	1	27534035	27604431	0.048749694	PASS
AHI1	6	135283532	135497776	0.033894706	PASS
AHNAK	11	62433542	62556235	0.064535884	PASS
AHNAK2	14	104937244	104978357	-0.155273506	suppress_segment_too_large
AHR	7	16916359	17346152	-0.72421718	PASS
AHRR	5	304176	438291	0.073527871	PASS
AHSA1	14	77457870	77469474	-0.155273506	suppress_segment_too_large
AHSG	3	186612923	186621318	0.02267528	PASS
AHSP	16	31527864	31528803	0.053595371	PASS
AICDA	12	8602166	8612871	0.505438545	PASS
AIDA	1	222668013	222713210	-0.204996646	suppress_segment_too_large
AIF1	6	31615184	31617021	0.028532667	PASS
AIF1L	9	131096476	131123152	0.073960965	PASS
AIFM1	23	130129362	130165887	0.158844052	PASS
AIFM2	10	70098223	70132934	0.032351597	PASS
AIFM3	22	20965108	20981360	-0.740245994	PASS
AIG1	6	143060496	143340304	0.033894706	PASS
AIM2	1	159062484	159147096	0.088103245	PASS
AIMP1	4	106315544	106349226	-0.677982248	PASS
AIMP2	7	6009245	6023834	-0.72421718	PASS
AIP	11	67483041	67491103	0.064535884	PASS
AIPL1	17	6393693	6435199	0.06854245	PASS
AIRE	21	44285838	44298648	0.209983559	PASS
AJAP1	1	4654732	4792534	-0.358281697	PASS
AJM1	9	136844415	136848801	0.073960965	PASS
AJUBA	14	22971174	22982642	0.053252507	PASS
AK1	9	127866480	127877743	0.073960965	PASS
AK2	1	33007940	33080996	0.048749694	PASS
AK3	9	4709559	4742043	0.073960965	PASS
AK4	1	65147549	65232145	0.052232535	PASS
AK5	1	77282051	77559969	0.052232535	PASS
AK6	5	69350984	69370013	-0.393084436	PASS
AK7	14	96392111	96489427	-0.155273506	suppress_segment_too_large
AK8	9	132725578	132878777	0.073960965	PASS
AK9	6	109492856	109691217	-0.355603029	PASS
AKAIN1	18	5145285	5197503	0.044197172	PASS
AKAP1	17	57085092	57121349	0.051798665	PASS
AKAP10	17	19904302	19978343	0.06854245	PASS
AKAP11	13	42272153	42323267	-0.398748891	PASS
AKAP12	6	151239999	151358557	0.033894706	PASS
AKAP13	15	85380571	85749358	-0.759380635	PASS
AKAP14	23	119895837	119920716	0.158844052	PASS
AKAP17A	23	1591593	1602514	-0.350651546	PASS
AKAP2	9	110048598	110172512	0.073960965	PASS
AKAP3	12	4615508	4649047	-0.015029783	PASS
AKAP4	23	50190768	50201013	0.158844052	PASS
AKAP5	14	64465499	64474503	0.053252507	PASS
AKAP6	14	32329273	32837681	0.053252507	PASS
AKAP7	6	131135666	131283535	-0.304168115	PASS
AKAP8	19	15353385	15379798	-0.069222905	PASS
AKAP8L	19	15380048	15419141	-0.069222905	PASS
AKAP9	7	91940867	92110673	-0.710463272	PASS
AKIP1	11	8911139	8920084	-0.39835217	PASS
AKIRIN1	1	38991223	39006059	0.048749694	PASS

AKIRIN2	6	87675072	87702209	-0.355603029	PASS
AKNA	9	114334156	114394405	0.073960965	PASS
AKNAD1	1	108815898	108858228	0.079255572	PASS
AKR1A1	1	45550543	45570049	-0.736943052	PASS
AKR1B1	7	134442350	134459284	-0.712149877	PASS
AKR1B10	7	134527592	134541408	-0.712149877	PASS
AKR1B15	7	134549136	134579875	-0.712149877	PASS
AKR1C1	10	4963253	4983283	0.075711544	PASS
AKR1C2	10	4987400	5018031	0.075711544	PASS
AKR1C3	10	5035354	5107686	0.075711544	PASS
AKR1C4	10	5195462	5218949	0.075711544	PASS
AKR1D1	7	138002324	138117986	-0.712149877	PASS
AKR1E2	10	4786629	4848062	0.075711544	PASS
AKR7A2	1	19303965	19312146	0.048749694	PASS
AKR7A3	1	19282558	19289250	0.048749694	PASS
AKT1	14	104769349	104795751	-0.155273506	suppress_segment_too_large
AKT1S1	19	49869033	49878459	0.002743503	PASS
AKT2	19	40230317	40285536	0.048917043	PASS
AKT3	1	243488233	243851079	-0.287484925	PASS
AKTIP	16	53491040	53504411	-0.423061015	PASS
AL020996.	1	25811470	25823744	0.048749694	PASS
AL021546.	12	120438198	120460006	0.028722739	PASS
AL021997.	6	28267121	28281580	0.069043418	PASS
AL022238.	22	40346529	40410054	-0.740245994	PASS
AL022318.	22	39014363	39033276	-0.740245994	PASS
AL024498.	6	10747794	10930423	0.069043418	PASS
AL031281.	1	22025511	22101360	0.048749694	PASS
AL031315.	6	169419969	169702047	0.033894706	PASS
AL031708.	16	1632259	1686715	0.053595371	PASS
AL031777.	6	26195595	26199293	0.069043418	PASS
AL031847.	1	6159430	6197757	0.364796772	PASS
AL033529.	1	32465057	32600792	0.048749694	PASS
AL034430.	20	10413520	10431922	-0.172056771	suppress_segment_too_large
AL034430.	20	10420546	10420737	-0.172056771	suppress_segment_too_large
AL035078.	11	31812391	32104665	-0.359426047	PASS
AL035425.	23	108722070	108732687	0.158844052	PASS
AL035460.	20	2814968	2818066	-0.172056771	suppress_segment_too_large
AL049557.	1	111722064	111755824	0.079255572	PASS
AL049629.	11	33698261	33722467	-0.359426047	PASS
AL049634.	20	1540144	1620009	-0.172056771	suppress_segment_too_large
AL049650.	20	2467212	2508907	-0.172056771	suppress_segment_too_large
AL049697.	6	87408012	87511634	-0.355603029	PASS
AL049779.	14	67659820	67690367	0.053252507	PASS
AL049839.	14	94592058	94624646	-0.155273506	suppress_segment_too_large
AL049844.	6	143807092	143844617	0.033894706	PASS
AL049844.	6	143857318	143938471	0.033894706	PASS
AL080251.	1	18849273	18921121	0.048749694	PASS
AL096711.	6	127438406	127519001	-0.304168115	PASS
AL096814.	6	42155426	42163439	0.028532667	PASS
AL096870.	14	24332310	24337382	0.053252507	PASS
AL109811.	1	11012662	11030528	0.364796772	PASS
AL109827.	20	35632340	35674544	-0.172056771	suppress_segment_too_large
AL110118.	14	93184973	93218586	-0.155273506	suppress_segment_too_large
AL117339.	10	38094368	38360098	0.075711544	PASS

AL117348.	1	225886696	225924278	-0.204996646	suppress_segment_too_large
AL121594.	14	35122549	35317474	0.053252507	PASS
AL121722.	20	22560553	22584261	-0.172056771	suppress_segment_too_large
AL121753.	20	35267885	35280043	-0.172056771	suppress_segment_too_large
AL121758.	20	646626	675800	-0.172056771	suppress_segment_too_large
AL121845.	20	63738270	63740398	-0.172056771	suppress_segment_too_large
AL121845.	20	63708864	63739103	-0.172056771	suppress_segment_too_large
AL121900.	20	18567453	18744216	-0.172056771	suppress_segment_too_large
AL132671.	6	117318211	117573571	-0.355603029	PASS
AL132780.	14	22946270	22982258	0.053252507	PASS
AL133352.	10	100505628	100529881	-0.414937136	PASS
AL133353.	10	99651595	99732112	-0.414937136	PASS
AL133410.	9	35812960	35828732	0.073960965	PASS
AL133500.	23	72301691	72572843	0.158844052	PASS
AL135905.	6	63572012	63583587	0.239805577	suppress_segment_too_large
AL136295.	14	24189157	24213473	0.053252507	PASS
AL136295.	14	24120956	24131829	0.053252507	PASS
AL136295.	14	24180395	24190416	0.053252507	PASS
AL136295.	14	24151218	24167402	0.053252507	PASS
AL136373.	1	46532166	46543969	-0.736943052	PASS
AL136454.	1	192716132	192716653	0.088103245	PASS
AL136531.	20	1317571	1393096	-0.172056771	suppress_segment_too_large
AL138752.	9	37588413	38068687	0.073960965	PASS
AL139011.	1	160216800	160285130	0.088103245	PASS
AL139142.	1	173596060	173669837	0.088103245	PASS
AL139300.	14	103562962	103685924	-0.155273506	suppress_segment_too_large
AL139353.	14	31334312	31457441	0.053252507	PASS
AL157392.	10	13610047	13655929	0.075711544	PASS
AL157935.	9	127867850	127906022	0.073960965	PASS
AL159163.	6	166858094	166956124	0.033894706	PASS
AL160269.	9	96235331	96352058	0.073960965	PASS
AL160272.	9	117704157	117877478	0.073960965	PASS
AL162231.	9	34664163	34666112	0.073960965	PASS
AL162231.	9	34646645	34657113	0.073960965	PASS
AL162377.	13	51763951	51845159	-0.384313056	PASS
AL162417.	9	133098121	133163914	0.073960965	PASS
AL163195.	14	20582892	20609795	0.053252507	PASS
AL163636.	14	20684587	20700576	0.053252507	PASS
AL353588.	6	44273194	44378957	0.028532667	PASS
AL355102.	14	96204844	96263929	-0.155273506	suppress_segment_too_large
AL355312.	6	149817937	149896011	0.033894706	PASS
AL355315.	10	97584374	97673910	-0.414937136	PASS
AL355916.	14	61529128	61657964	0.053252507	PASS
AL355987.	9	136738167	136748453	0.073960965	PASS
AL355987.	9	136791379	136800595	0.073960965	PASS
AL357673.	1	54132686	54200073	-0.736943052	PASS
AL358075.	1	46043661	46176488	-0.736943052	PASS
AL358113.	9	69035750	69255187	0.073960965	PASS
AL358472.	1	153975850	153986246	0.088103245	PASS
AL358472.	1	153959151	153975887	0.088103245	PASS
AL359736.	13	23979700	24321031	-0.398748891	PASS
AL359922.	9	21802636	22032986	0.073960965	PASS
AL360181.	10	133390834	133420495	0.073090211	PASS
AL365205.	6	41780349	41790141	0.028532667	PASS

AL365214.	6	112236806	112350094	-0.355603029	PASS
AL365232.	6	73209746	73263196	-0.250122709	PASS
AL365273.	10	95860548	95924844	-0.414937136	PASS
AL391650.	1	26169516	26171831	0.048749694	PASS
AL445238.	13	63832361	63833531	-0.384313056	PASS
AL445685.	1	52020153	52033350	-0.736943052	PASS
AL445989.	13	63746741	63751080	-0.384313056	PASS
AL449266.	1	108837660	108963484	0.079255572	PASS
AL451062.	1	43650149	43931014	-0.736943052	PASS
AL512428.	6	24797373	24809798	0.069043418	PASS
AL512506.	13	43883800	44028526	-0.398748891	PASS
AL512785.	1	162365407	162383531	0.088103245	PASS
AL513165.	9	37512547	37592469	0.073960965	PASS
AL583836.	10	94688154	94853073	-0.414937136	PASS
AL589666.	6	85557978	85615234	-0.355603029	PASS
AL590132.	1	210858125	211134146	-0.204996646	suppress_segment_too_large
AL590764.	23	71103987	71111575	0.158844052	PASS
AL591806.	1	160997957	161038962	0.088103245	PASS
AL592490.	13	61409858	61427849	-0.384313056	PASS
AL603832.	1	112702614	112711433	0.079255572	PASS
AL645922.	6	31927698	31952048	0.028532667	PASS
AL645941.	6	32937364	32953122	0.028532667	PASS
AL662820.	6	33321386	33329286	0.028532667	PASS
AL662884.	6	32150495	32154373	0.028532667	PASS
AL662899.	6	31686962	31714072	0.028532667	PASS
AL662899.	6	31666102	31673546	0.028532667	PASS
AL669918.	6	32813767	32838822	0.028532667	PASS
AL672043.	1	46175486	46176478	-0.736943052	PASS
AL672142.	9	128941478	128957021	0.073960965	PASS
AL691442.	1	155063748	155086807	0.088103245	PASS
AL713999.	1	155169409	155187272	0.088103245	PASS
AL772284.	23	119073226	119076373	0.158844052	PASS
AL807752.	9	137031241	137040436	0.073960965	PASS
AL807752.	9	136977518	136985435	0.073960965	PASS
AL845331.	2	94588522	94604573	0.064122364	PASS
AL928654.	14	105487199	105492267	-0.155273506	suppress_segment_too_large
AL929554.	9	137168854	137171984	0.073960965	PASS
ALAD	9	113386317	113401333	0.073960965	PASS
ALAS1	3	52198086	52214327	-0.727808231	PASS
ALAS2	23	55009055	55031064	0.158844052	PASS
ALB	4	73397114	73421412	0.115781418	suppress_segment_too_large
ALCAM	3	105366909	105576900	0.22470242	PASS
ALDH16A	19	49453169	49471048	0.002743503	PASS
ALDH18A	10	95605929	95656706	-0.414937136	PASS
ALDH1A1	9	72900662	73080442	0.073960965	PASS
ALDH1A2	15	57953424	58497866	-0.759380635	PASS
ALDH1A3	15	100877714	100916626	-0.759380635	PASS
ALDH1B1	9	38392664	38398661	0.073960965	PASS
ALDH1L1	3	126103562	126197994	0.06434429	PASS
ALDH1L2	12	105019784	105084577	0.028722739	PASS
ALDH2	12	111766887	111817529	0.028722739	PASS
ALDH3A1	17	19737984	19748943	0.06854245	PASS
ALDH3A2	17	19648136	19677598	0.06854245	PASS
ALDH3B1	11	68008578	68029282	0.064535884	PASS

ALDH3B2	11	67662162	67681200	0.064535884	PASS
ALDH4A1	1	18871430	18902781	0.048749694	PASS
ALDH5A1	6	24494852	24537207	0.069043418	PASS
ALDH6A1	14	74056850	74084493	0.053252507	PASS
ALDH7A1	5	126531200	126595418	-0.393084436	PASS
ALDH8A1	6	134917390	134950122	0.033894706	PASS
ALDH9A1	1	165662216	165698863	0.088103245	PASS
ALDOA	16	30064164	30070457	0.053595371	PASS
ALDOB	9	101420578	101449664	0.073960965	PASS
ALDOC	17	28573115	28577264	0.041294512	PASS
ALG1	16	5033923	5087379	0.053595371	PASS
ALG10	12	34022281	34029694	0.49032213	suppress_segment_too_large
ALG10B	12	38316578	38329728	0.49032213	suppress_segment_too_large
ALG11	13	52012398	52032171	-0.384313056	PASS
ALG12	22	49900229	49918458	-0.953096644	PASS
ALG13	23	111665811	111760649	0.158844052	PASS
ALG14	1	94974407	95072945	0.079255572	PASS
ALG1L	3	125929275	125937039	0.06434429	PASS
ALG1L2	3	130081831	130113227	0.06434429	PASS
ALG2	9	99216426	99221956	0.073960965	PASS
ALG3	3	184242301	184249548	0.02267528	PASS
ALG5	13	36949775	37000261	-0.398748891	PASS
ALG6	1	63367575	63438562	0.052232535	PASS
ALG8	11	78100936	78139660	0.064535884	PASS
ALG9	11	111782195	111871581	-0.431650509	PASS
ALK	2	29192774	29921566	0.034263343	PASS
ALKAL1	8	52534037	52565507	0.182873287	suppress_segment_too_large
ALKAL2	2	279558	288851	0.034263343	PASS
ALKBH1	14	77672404	77708020	-0.155273506	suppress_segment_too_large
ALKBH2	12	109088188	109093631	0.028722739	PASS
ALKBH3	11	43880811	43920266	0.059795455	PASS
ALKBH4	7	102456238	102464876	-0.712149877	PASS
ALKBH5	17	18183078	18209954	0.06854245	PASS
ALKBH6	19	36009120	36014239	0.044838622	PASS
ALKBH7	19	6372433	6375251	-0.071973357	PASS
ALKBH8	11	107502726	107565746	-0.431650509	PASS
ALLC	2	3658195	3702671	0.034263343	PASS
ALMS1	2	73385758	73610793	-0.46122572	PASS
ALOX12	17	6996065	7010736	0.06854245	PASS
ALOX12B	17	8072636	8087716	0.06854245	PASS
ALOX15	17	4630902	4642294	0.06854245	PASS
ALOX15B	17	8039017	8049134	0.06854245	PASS
ALOX5	10	45374176	45446119	-0.389033546	PASS
ALOX5AP	13	30713478	30764426	-0.398748891	PASS
ALOXE3	17	8095900	8119047	0.06854245	PASS
ALPG	2	232406843	232410714	0.011001208	PASS
ALPI	2	232456123	232460032	0.011001208	PASS
ALPK1	4	112285509	112442620	-0.677982248	PASS
ALPK2	18	58481247	58628957	-0.330515409	PASS
ALPK3	15	84816680	84873482	-0.759380635	PASS
ALPL	1	21509372	21578412	0.048749694	PASS
ALPP	2	232378534	232382889	0.011001208	PASS
ALS2	2	201700554	201781189	0.011001208	PASS
ALS2CL	3	46668997	46693704	-0.727808231	PASS

ALS2CR12	2	201288271	201357398	0.011001208	PASS
ALX1	12	85280107	85301784	0.271127429	suppress_segment_too_large
ALX3	1	110059994	110070700	0.079255572	PASS
ALX4	11	44260440	44310166	0.059795455	PASS
ALYREF	17	81887844	81891586	0.051798665	PASS
AMACR	5	33986178	34008108	0.073527871	PASS
AMBN	4	70592256	70607288	0.115781418	suppress_segment_too_large
AMBP	9	114060127	114078472	0.073960965	PASS
AMBRA1	11	46396414	46594125	0.059795455	PASS
AMD1	6	110874770	110895713	-0.355603029	PASS
AMDHD1	12	95943293	95968716	0.028722739	PASS
AMDHD2	16	2520357	2531422	0.053595371	PASS
AMELX	23	11293413	11300761	0.158844052	PASS
AMER1	23	64185117	64205744	0.158844052	PASS
AMER2	13	25161684	25172288	-0.398748891	PASS
AMER3	2	130755435	130768134	-0.359440172	PASS
AMFR	16	56361452	56425538	-0.423061015	PASS
AMH	19	2249309	2252073	-0.071973357	PASS
AMHR2	12	53423855	53431534	-0.743220499	PASS
AMIGO1	1	109504175	109509738	0.079255572	PASS
AMIGO2	12	47075707	47079951	-0.46813528	PASS
AMIGO3	3	49716834	49719695	-0.727808231	PASS
AMMECR	23	110194186	110440233	0.158844052	PASS
AMMECR	2	127861630	127885922	-0.359440172	PASS
AMN	14	102922656	102933596	-0.155273506	suppress_segment_too_large
AMN1	12	31671137	31729174	0.49032213	suppress_segment_too_large
AMOT	23	112774503	112840815	0.158844052	PASS
AMOTL1	11	94706431	94876753	0.064535884	PASS
AMOTL2	3	134355874	134375479	0.06434429	PASS
AMPD1	1	114673090	114695618	0.079255572	PASS
AMPD2	1	109616104	109632051	0.079255572	PASS
AMPD3	11	10308313	10507579	-0.39835217	PASS
AMPH	7	38383704	38631567	-0.72421718	PASS
AMT	3	49416775	49422753	-0.727808231	PASS
AMTN	4	70518540	70532742	0.115781418	suppress_segment_too_large
AMY1A	1	103655290	103664554	0.079255572	PASS
AMY1C	1	103750406	103758690	0.079255572	PASS
AMY2A	1	103616811	103625780	0.079255572	PASS
AMY2B	1	103553815	103579534	0.079255572	PASS
AMZ1	7	2679522	2775500	-0.72421718	PASS
AMZ2	17	68247574	68257164	0.051798665	PASS
ANAPC1	2	111611639	111884690	0.040971718	PASS
ANAPC10	4	144831908	145098541	0.142431244	suppress_segment_too_large
ANAPC11	17	81890790	81900991	0.051798665	PASS
ANAPC13	3	134477706	134486716	0.06434429	PASS
ANAPC15	11	72106378	72112780	0.064535884	PASS
ANAPC16	10	72216000	72235860	0.032351597	PASS
ANAPC2	9	137174784	137188549	0.073960965	PASS
ANAPC4	4	25377213	25418498	-0.358623662	PASS
ANAPC5	12	121308245	121399896	0.028722739	PASS
ANAPC7	12	110372900	110403730	0.028722739	PASS
ANG	14	20684177	20698971	0.053252507	PASS
ANGEL1	14	76786178	76826246	-0.155273506	suppress_segment_too_large
ANGEL2	1	212992182	213015826	-0.204996646	suppress_segment_too_large

ANGPT1	8	107249482	107498055	0.70944438	suppress_segment_too_large
ANGPT2	8	6499651	6563409	-0.311940419	PASS
ANGPT4	20	869899	916317	-0.172056771	suppress_segment_too_large
ANGPTL1	1	178849705	178871052	0.088103245	PASS
ANGPTL2	9	127087332	127122883	0.073960965	PASS
ANGPTL3	1	62597487	62606159	0.052232535	PASS
ANGPTL4	19	8363289	8374373	-0.071973357	PASS
ANGPTL5	11	101890674	101916522	0.32805343	suppress_segment_too_large
ANGPTL6	19	10092338	10102796	-0.107594294	PASS
ANGPTL7	1	11189341	11195981	0.364796772	PASS
ANGPTL8	19	11237450	11241943	-0.107594294	PASS
ANHX	12	133218312	133236095	0.232349073	PASS
ANK1	8	41653220	41896762	0.182873287	suppress_segment_too_large
ANK2	4	112818109	113383740	-0.677982248	PASS
ANK3	10	60026298	60733490	0.032351597	PASS
ANKAR	2	189674290	189761193	0.011001208	PASS
ANKDD1A	15	64911902	64958700	-0.759380635	PASS
ANKDD1B	5	75611459	75671846	-0.393084436	PASS
ANKEF1	20	9986126	10058303	-0.172056771	suppress_segment_too_large
ANKFN1	17	55882301	56511659	0.051798665	PASS
ANKFY1	17	4163907	4263995	0.06854245	PASS
ANKH	5	14704800	14871785	0.073527871	PASS
ANKHD1	5	140401814	140539856	-0.393084436	PASS
ANKHD1-EIF4EBP3	5	140401908	140549569	-0.393084436	PASS
ANKIB1	7	92246234	92401384	-0.710463272	PASS
ANKK1	11	113387791	113400418	-0.431650509	PASS
ANKLE1	19	17281645	17287646	-0.069222905	PASS
ANKLE2	12	132725503	132761888	0.232349073	PASS
ANKMY1	2	240479422	240569209	0.011001208	PASS
ANKMY2	7	16599776	16645817	-0.72421718	PASS
ANKRA2	5	73552335	73565686	-0.393084436	PASS
ANKRD1	10	90912096	90921276	-0.414937136	PASS
ANKRD10	13	110878540	110915069	-0.426822582	PASS
ANKRD11	16	89267619	89490561	-0.423061015	PASS
ANKRD12	18	9136228	9285985	0.044197172	PASS
ANKRD13A	12	109999186	110039763	0.028722739	PASS
ANKRD13B	17	29589769	29614761	0.041294512	PASS
ANKRD13C	1	70260588	70354734	0.052232535	PASS
ANKRD13D	11	67288547	67302485	0.064535884	PASS
ANKRD16	10	5861617	5889906	0.075711544	PASS
ANKRD17	4	73073376	73258798	0.115781418	suppress_segment_too_large
ANKRD18A	9	38571358	38620660	0.073960965	PASS
ANKRD18B	9	33524394	33573009	0.073960965	PASS
ANKRD2	10	97572499	97583884	-0.414937136	PASS
ANKRD20A1	9	67859147	67902094	0.073960965	PASS
ANKRD20A2	9	40223285	40266392	0.073960965	PASS
ANKRD20A3	9	64369394	64413142	0.073960965	PASS
ANKRD22	10	88822132	88851818	-2.417109027	suppress_large_homdel
ANKRD23	2	96824526	96857934	0.064122364	PASS
ANKRD24	19	4183354	4224814	-0.071973357	PASS
ANKRD26	10	26991914	27100498	0.075711544	PASS
ANKRD27	19	32597007	32676597	0.044838622	PASS
ANKRD28	3	15667236	15859771	0.06149513	PASS
ANKRD29	18	23598926	23662885	-0.330515409	PASS

ANKRD30	10	37125788	37384111	0.075711544	PASS
ANKRD30	18	14728272	14852738	0.044197172	PASS
ANKRD30	2	132147591	132257969	-0.359440172	PASS
ANKRD31	5	75068275	75236878	-0.393084436	PASS
ANKRD33	12	51887960	51891664	-0.743220499	PASS
ANKRD33	5	10564330	10657816	0.073527871	PASS
ANKRD34	1	145959442	145964582	0.079255572	PASS
ANKRD34	5	80556755	80570488	-0.393084436	PASS
ANKRD34	15	79293285	79298235	-0.759380635	PASS
ANKRD35	1	145866560	145885866	0.079255572	PASS
ANKRD36	2	97113496	97250199	0.064122364	PASS
ANKRD36	2	97492663	97589965	0.064122364	PASS
ANKRD36	2	95836919	95991831	0.064122364	PASS
ANKRD37	4	185396021	185400628	0.275137421	PASS
ANKRD39	2	96836611	96858095	0.064122364	PASS
ANKRD40	17	50693190	50707924	0.051798665	PASS
ANKRD42	11	83193739	83260694	0.064535884	PASS
ANKRD44	2	196967017	197311173	0.011001208	PASS
ANKRD45	1	173609561	173669862	0.088103245	PASS
ANKRD46	8	100509752	100559784	0.355469066	suppress_segment_too_large
ANKRD49	11	94493629	94499583	0.064535884	PASS
ANKRD50	4	124664052	124712732	0.142431244	suppress_segment_too_large
ANKRD52	12	56237807	56258391	-0.743220499	PASS
ANKRD53	2	70978380	70985499	-0.46122572	PASS
ANKRD54	22	37830855	37849327	-0.740245994	PASS
ANKRD55	5	56099678	56233359	-0.284712224	PASS
ANKRD6	6	89433170	89633834	-0.355603029	PASS
ANKRD60	20	58218495	58228653	-0.172056771	suppress_segment_too_large
ANKRD61	7	6031376	6036386	-0.72421718	PASS
ANKRD62	18	12093853	12129749	0.044197172	PASS
ANKRD63	15	40281444	40282586	-0.423772929	PASS
ANKRD65	1	1418420	1421769	-0.358281697	PASS
ANKRD66	6	46746917	46759506	0.239805577	suppress_segment_too_large
ANKRD7	7	118214669	118496171	-0.712149877	PASS
ANKRD9	14	102501760	102509799	-0.155273506	suppress_segment_too_large
ANKS1A	6	34889265	35091413	0.028532667	PASS
ANKS1B	12	98726457	99984654	0.028722739	PASS
ANKS3	16	4696510	4734378	0.053595371	PASS
ANKS4B	16	21233665	21253845	0.053595371	PASS
ANKS6	9	98731329	98796965	0.073960965	PASS
ANKUB1	3	149761100	149968385	0.02267528	PASS
ANKZF1	2	219229757	219236669	0.011001208	PASS
ANLN	7	36389806	36453791	-0.72421718	PASS
ANO1	11	70078302	70189528	0.064535884	PASS
ANO10	3	43354859	43691594	-0.727808231	PASS
ANO2	12	5531869	5946232	-0.015029783	PASS
ANO3	11	26309599	26663288	-0.359426047	PASS
ANO4	12	100717526	101128641	0.028722739	PASS
ANO5	11	21799934	22283357	-2.208422516	PASS
ANO6	12	45215987	45440404	-0.46813528	PASS
ANO7	2	241188509	241225377	0.011001208	PASS
ANO8	19	17323223	17334829	-0.069222905	PASS
ANO9	11	417933	442011	-0.39835217	PASS
ANOS1	23	8528874	8732186	0.158844052	PASS

ANP32A	15	68778535	68820897	-0.759380635	PASS
ANP32B	9	97983361	98015943	0.073960965	PASS
ANP32D	12	48472665	48473624	-0.743220499	PASS
ANP32E	1	150218417	150236156	0.079255572	PASS
ANPEP	15	89784889	89815401	-0.759380635	PASS
ANTXR1	2	69013178	69249327	-0.46122572	PASS
ANTXR2	4	79901149	80125454	-0.677982248	PASS
ANTXRL	10	46286345	46330207	-0.389033546	PASS
ANXA1	9	73151757	73170393	0.073960965	PASS
ANXA10	4	168092515	168187690	0.142431244	suppress_segment_too_large
ANXA11	10	80150889	80205572	0.032351597	PASS
ANXA13	8	123680794	123737407	0.493344802	suppress_segment_too_large
ANXA2	15	60347134	60402883	-0.759380635	PASS
ANXA2R	5	43039081	43043170	-0.284712224	PASS
ANXA3	4	78551519	78610451	-0.677982248	PASS
ANXA4	2	69644425	69827100	-0.46122572	PASS
ANXA5	4	121667955	121697113	0.142431244	suppress_segment_too_large
ANXA6	5	151100712	151157882	-0.393084436	PASS
ANXA7	10	73375101	73414076	0.032351597	PASS
ANXA8	10	47460162	47484158	-0.389033546	PASS
ANXA8L1	10	46375627	46391784	-0.389033546	PASS
ANXA9	1	150982017	150995634	0.079255572	PASS
AOAH	7	36512949	36724549	-0.72421718	PASS
AOC1	7	150824627	150861504	-0.712149877	PASS
AOC2	17	42844600	42850707	0.041294512	PASS
AOC3	17	42851184	42858130	0.041294512	PASS
AOX1	2	200585868	200677064	0.011001208	PASS
AP000275.	21	32578822	32612281	0.209983559	PASS
AP000295.	21	33229901	33297160	0.209983559	PASS
AP000311.	21	33584687	33931607	0.209983559	PASS
AP000350.	22	23862188	23895223	-0.740245994	PASS
AP000646.	11	121024125	121113108	-0.431650509	PASS
AP000721.	11	63974620	63988346	0.064535884	PASS
AP000781.	11	57387365	57424059	0.27006553	suppress_segment_too_large
AP000812.	11	72105924	72109329	0.064535884	PASS
AP000812.	11	72080777	72110782	0.064535884	PASS
AP000944.	11	65261928	65326543	0.064535884	PASS
AP001267.	11	118401602	118482737	-0.431650509	PASS
AP001273.	11	93741664	93812378	0.064535884	PASS
AP001458.	11	62649694	62665178	0.064535884	PASS
AP001781.	11	111786286	111879425	-0.431650509	PASS
AP001931.	11	57742163	57793243	0.27006553	suppress_segment_too_large
AP002373.	11	114400682	114443932	-0.431650509	PASS
AP002495.	11	71865509	71928654	0.064535884	PASS
AP002512.	11	56459221	56473352	0.27006553	suppress_segment_too_large
AP002748.	11	66509079	66533613	0.064535884	PASS
AP002884.	11	112086903	112193805	-0.431650509	PASS
AP002990.	11	62559603	62591531	0.064535884	PASS
AP003108.	11	61429220	61485822	0.064535884	PASS
AP003419.	11	67351572	67373584	0.064535884	PASS
AP1AR	4	112231737	112270047	-0.677982248	PASS
AP1B1	22	29327680	29423179	-0.740245994	PASS
AP1G1	16	71729000	71809201	-0.423061015	PASS
AP1G2	14	23559565	23568070	0.053252507	PASS

AP1M1	19	16197578	16245907	-0.069222905	PASS
AP1M2	19	10572671	10587315	-0.107594294	PASS
AP1S1	7	101154400	101161596	-0.712149877	PASS
AP1S2	23	15825806	15854931	0.158844052	PASS
AP1S3	2	223751686	223838027	0.011001208	PASS
AP2A1	19	49766968	49807113	0.002743503	PASS
AP2A2	11	924894	1012245	-0.39835217	PASS
AP2B1	17	35578046	35726409	0.041294512	PASS
AP2M1	3	184174689	184184091	0.02267528	PASS
AP2S1	19	46838136	46850992	0.002743503	PASS
AP3B1	5	78000525	78294755	-0.393084436	PASS
AP3B2	15	82659281	82709914	-0.759380635	PASS
AP3D1	19	2100988	2164468	-0.071973357	PASS
AP3M1	10	74120255	74151063	0.032351597	PASS
AP3M2	8	42152946	42171673	0.182873287	suppress_segment_too_large
AP3S1	5	115841481	115914081	-0.393084436	PASS
AP3S2	15	89830599	89894638	-0.759380635	PASS
AP4B1	1	113894748	113905201	0.079255572	PASS
AP4E1	15	50908672	51005900	-0.423772929	PASS
AP4M1	7	100101549	100110345	-0.710463272	PASS
AP4S1	14	31025106	31096450	0.053252507	PASS
AP5B1	11	65775893	65780802	0.064535884	PASS
AP5M1	14	57268909	57298742	0.053252507	PASS
AP5S1	20	3820524	3828837	-0.172056771	suppress_segment_too_large
AP5Z1	7	4775615	4794395	-0.72421718	PASS
APAF1	12	98645141	98735433	0.028722739	PASS
APBA1	9	69427530	69672306	0.073960965	PASS
APBA2	15	28884483	29118315	-0.423772929	PASS
APBA3	19	3750819	3761699	-0.071973357	PASS
APBB1	11	6395124	6419414	-0.39835217	PASS
APBB1IP	10	26438203	26567803	0.075711544	PASS
APBB2	4	40810027	41216714	-0.753159364	PASS
APBB3	5	140558268	140564781	-0.393084436	PASS
APC	5	112707498	112846239	-0.393084436	PASS
APC2	19	1446302	1473244	-0.071973357	PASS
APCDD1	18	10454628	10489948	0.044197172	PASS
APCDD1L	20	58459101	58515131	-0.172056771	suppress_segment_too_large
APCS	1	159587825	159588865	0.088103245	PASS
APEH	3	49674002	49683963	-0.727808231	PASS
APELA	4	164877004	164898965	0.142431244	suppress_segment_too_large
APEX1	14	20455191	20457772	0.053252507	PASS
APEX2	23	55000357	55009057	0.158844052	PASS
APH1A	1	150265399	150269580	0.079255572	PASS
APH1B	15	63276018	63309126	-0.759380635	PASS
API5	11	43311963	43344529	0.059795455	PASS
APIP	11	34853094	34916499	-0.359426047	PASS
APLF	2	68467561	68655862	-0.46122572	PASS
APLN	23	129645259	129654937	0.158844052	PASS
APLNR	11	57233577	57237314	0.27006553	suppress_segment_too_large
APLP1	19	35867899	35879791	0.044838622	PASS
APLP2	11	130068147	130144811	-0.431650509	PASS
APMAP	20	24962925	24992979	-0.172056771	suppress_segment_too_large
APOA1	11	116835751	116837950	-0.431650509	PASS
APOA2	1	161222292	161223631	0.088103245	PASS

APOA4	11	116820700	116823306	-0.431650509	PASS
APOA5	11	116789367	116792420	-0.431650509	PASS
APOB	2	21001429	21044073	0.034263343	PASS
APOBEC1	12	7649400	7665903	-0.015029783	PASS
APOBEC2	6	41053304	41064511	0.028532667	PASS
APOBEC3	22	38952741	38992778	-0.740245994	PASS
APOBEC3	22	38982347	38992804	-0.740245994	PASS
APOBEC3	22	39014083	39020352	-0.740245994	PASS
APOBEC3	22	39021113	39033276	-0.740245994	PASS
APOBEC3	22	39040604	39053910	-0.740245994	PASS
APOBEC3	22	39077005	39087743	-0.740245994	PASS
APOBEC3	22	39097224	39104067	-0.740245994	PASS
APOBEC4	1	183646404	183653316	0.088103245	PASS
APOBR	16	28494649	28498970	0.053595371	PASS
APOC1	19	44914247	44919349	0.002743503	PASS
APOC2	19	44945982	44949565	0.002743503	PASS
APOC3	11	116829706	116833072	-0.431650509	PASS
APOC4	19	44942238	44945496	0.002743503	PASS
APOC4-AI	19	44942238	44949565	0.002743503	PASS
APOD	3	195568702	195584205	0.02267528	PASS
APOE	19	44905754	44909393	0.002743503	PASS
APOF	12	56360569	56362823	-0.743220499	PASS
APOH	17	66212033	66256525	0.051798665	PASS
APOL1	22	36253010	36267530	-0.740245994	PASS
APOL2	22	36226203	36239954	-0.740245994	PASS
APOL3	22	36140330	36166177	-0.740245994	PASS
APOL4	22	36189124	36204840	-0.740245994	PASS
APOL5	22	35717872	35729483	-0.740245994	PASS
APOL6	22	35648395	35668409	-0.740245994	PASS
APOLD1	12	12725917	12829975	0.49032213	suppress_segment_too_large
APOM	6	31652416	31658210	0.028532667	PASS
APOO	23	23833353	23907934	0.158844052	PASS
APOOL	23	85003826	85093316	0.158844052	PASS
APOPT1	14	103562962	103607523	-0.155273506	suppress_segment_too_large
APP	21	25880550	26171128	0.209983559	PASS
APPBP2	17	60443149	60526219	0.051798665	PASS
APPL1	3	57227726	57278105	-0.727808231	PASS
APPL2	12	105173296	105236238	0.028722739	PASS
APRT	16	88809339	88811944	-0.423061015	PASS
APTX	9	32972606	33025168	0.073960965	PASS
AQP1	7	30911694	30925516	-0.72421718	PASS
AQP10	1	154321090	154325325	0.088103245	PASS
AQP11	11	77589391	77610355	0.064535884	PASS
AQP12A	2	240691845	240698483	0.011001208	PASS
AQP12B	2	240676418	240682906	0.011001208	PASS
AQP2	12	49950741	49958881	-0.743220499	PASS
AQP3	9	33441154	33447633	0.073960965	PASS
AQP4	18	26852038	26865818	-0.330515409	PASS
AQP5	12	49961870	49965681	-0.743220499	PASS
AQP6	12	49967194	49977139	-0.743220499	PASS
AQP7	9	33383179	33402682	0.073960965	PASS
AQP8	16	25215731	25228940	0.053595371	PASS
AQP9	15	58138169	58185911	-0.759380635	PASS
AQR	15	34851782	34969839	-0.423772929	PASS

AR	23	67544032	67730619	0.158844052	PASS
ARAF	23	47561100	47571920	0.158844052	PASS
ARAP1	11	72685069	72793599	0.064535884	PASS
ARAP2	4	35948221	36244509	-0.753159364	PASS
ARAP3	5	141653401	141682221	-0.393084436	PASS
ARC	8	142611044	142614472	0.699132336	PASS
ARCN1	11	118572390	118603033	-0.431650509	PASS
AREG	4	74445134	74455009	0.115781418	suppress_segment_too_large
AREL1	14	74653437	74713115	-0.155273506	suppress_segment_too_large
ARF1	1	228082660	228099212	-0.204996646	suppress_segment_too_large
ARF3	12	48935723	48957551	-0.743220499	PASS
ARF4	3	57571363	57598220	-0.727808231	PASS
ARF5	7	127588345	127591705	-0.712149877	PASS
ARF6	14	49893092	49897054	0.053252507	PASS
ARFGAP1	20	63272785	63289793	-0.172056771	suppress_segment_too_large
ARFGAP2	11	47164299	47177125	0.059795455	PASS
ARFGAP3	22	42796502	42858106	-0.740245994	PASS
ARFGEF1	8	67173511	67343677	0.182873287	suppress_segment_too_large
ARFGEF2	20	48921890	49036693	-0.172056771	suppress_segment_too_large
ARFGEF3	6	138161921	138344663	0.033894706	PASS
ARFIP1	4	152779937	152918463	0.142431244	suppress_segment_too_large
ARFIP2	11	6474683	6481479	-0.39835217	PASS
ARFRP1	20	63698642	63708025	-0.172056771	suppress_segment_too_large
ARG1	6	131573144	131584332	-0.304168115	PASS
ARG2	14	67619798	67651720	0.053252507	PASS
ARGFX	3	121570704	121586634	0.06434429	PASS
ARGLU1	13	106541673	106568164	-0.426822582	PASS
ARHGAP1	11	46677080	46700615	0.059795455	PASS
ARHGAP1	4	147732063	148072780	0.142431244	suppress_segment_too_large
ARHGAP1	15	32615144	32639949	-0.423772929	PASS
ARHGAP1	15	30624494	30638805	-0.423772929	PASS
ARHGAP1	10	31805404	31928876	0.075711544	PASS
ARHGAP1	2	143091362	143768352	-0.30549516	PASS
ARHGAP1	16	24919385	25015666	0.053595371	PASS
ARHGAP1	6	129576132	129710225	-0.304168115	PASS
ARHGAP1	10	97222173	97292673	-0.414937136	PASS
ARHGAP1	10	97153045	97292637	-0.414937136	PASS
ARHGAP2	11	110577042	110713189	-0.431650509	PASS
ARHGAP2	10	24583609	24723668	0.075711544	PASS
ARHGAP2	10	48446034	48656265	-0.389033546	PASS
ARHGAP2	17	38419280	38512392	0.041294512	PASS
ARHGAP2	4	85475114	86002670	-0.677982248	PASS
ARHGAP2	2	68679601	68826833	-0.46122572	PASS
ARHGAP2	5	142770377	143229011	-0.393084436	PASS
ARHGAP2	17	45393902	45434421	0.051798665	PASS
ARHGAP2	18	6729718	6915716	0.044197172	PASS
ARHGAP2	1	94148988	94275068	0.079255572	PASS
ARHGAP3	1	161046946	161069970	0.088103245	PASS
ARHGAP3	3	119294373	119420714	0.06434429	PASS
ARHGAP3	11	128965060	129279324	-0.431650509	PASS
ARHGAP3	19	35774532	35788822	0.044838622	PASS
ARHGAP3	19	46918676	47005077	0.002743503	PASS
ARHGAP3	23	131058242	131089883	0.158844052	PASS
ARHGAP3	8	144529179	144605816	0.699132336	PASS

ARHGAP4	23	153907367	153934999	0.158844052	PASS
ARHGAP4	20	38601934	38651035	-0.172056771	suppress_segment_too_large
ARHGAP4	11	100687653	100993941	0.32805343	suppress_segment_too_large
ARHGAP4	17	12789539	12991643	0.06854245	PASS
ARHGAP4	19	1065923	1086628	-0.071973357	PASS
ARHGAP5	14	32076114	32159728	0.053252507	PASS
ARHGAP6	23	11137543	11665701	0.158844052	PASS
ARHGAP8	22	44752558	44862788	-0.953096644	PASS
ARHGAP9	12	57472255	57488814	-0.743220499	PASS
ARHGDIA	17	81867721	81871406	0.051798665	PASS
ARHGDIB	12	14942017	14961728	0.49032213	suppress_segment_too_large
ARHGDIG	16	268727	283010	0.053595371	PASS
ARHGEF1	19	41883161	41930150	0.048917043	PASS
ARHGEF1	8	1823976	1958641	-0.311940419	PASS
ARHGEF1	1	17539835	17697874	0.048749694	PASS
ARHGEF1	1	156934840	157045370	0.088103245	PASS
ARHGEF1	11	120336914	120489936	-0.431650509	PASS
ARHGEF1	17	8310241	8322516	0.06854245	PASS
ARHGEF1	1	3454426	3481113	-0.358281697	PASS
ARHGEF1	11	73308289	73369388	0.064535884	PASS
ARHGEF1	19	7395113	7472477	-0.071973357	PASS
ARHGEF1	1	16197854	16212609	0.048749694	PASS
ARHGEF2	1	155946851	156007070	0.088103245	PASS
ARHGEF2	12	57610180	57619379	-0.743220499	PASS
ARHGEF2	3	154121003	154257827	0.02267528	PASS
ARHGEF2	5	73626158	73941993	-0.393084436	PASS
ARHGEF3	3	56727418	57079329	-0.727808231	PASS
ARHGEF3	2	38889841	38975449	0.034263343	PASS
ARHGEF3	5	149551947	149634968	-0.393084436	PASS
ARHGEF3	4	105552620	105708093	-0.677982248	PASS
ARHGEF3	9	35658875	35675866	0.073960965	PASS
ARHGEF4	2	130836916	131047263	-0.359440172	PASS
ARHGEF4	14	21070270	21090240	0.053252507	PASS
ARHGEF5	7	144355288	144380632	-0.712149877	PASS
ARHGEF6	23	136665547	136782088	0.158844052	PASS
ARHGEF7	13	111114559	111305737	-0.426822582	PASS
ARHGEF9	23	63634967	63809274	0.158844052	PASS
ARID1A	1	26693236	26782110	0.048749694	PASS
ARID1B	6	156776020	157210779	0.033894706	PASS
ARID2	12	45729665	45908040	-0.46813528	PASS
ARID3A	19	925781	975934	-0.071973357	PASS
ARID3B	15	74541177	74598131	-0.759380635	PASS
ARID3C	9	34621379	34628107	0.073960965	PASS
ARID4A	14	58298385	58373887	0.053252507	PASS
ARID4B	1	235131634	235328219	-0.204996646	suppress_segment_too_large
ARID5A	2	96536743	96552638	0.064122364	PASS
ARID5B	10	61901300	62096944	0.032351597	PASS
ARIH1	15	72474326	72602985	-0.759380635	PASS
ARIH2	3	48918821	48986382	-0.727808231	PASS
ARIH2OS	3	48917782	48919385	-0.727808231	PASS
ARL1	12	101393120	101407820	0.028722739	PASS
ARL10	5	176365468	176401865	0.165341871	suppress_segment_too_large
ARL11	13	49628299	49633872	-0.384313056	PASS
ARL13A	23	100969708	100990829	0.158844052	PASS

ARL13B	3	93980139	94055668	0.22470242	PASS
ARL14	3	160677159	160678452	0.02267528	PASS
ARL14EP	11	30323051	30338227	-0.359426047	PASS
ARL14EPI	5	116032324	116060118	-0.393084436	PASS
ARL15	5	53883945	54310582	-0.284712224	PASS
ARL16	17	81681174	81683924	0.051798665	PASS
ARL17A	17	46516702	46579682	0.051798665	PASS
ARL17B	17	46274784	46361797	0.051798665	PASS
ARL2	11	65014113	65022184	0.064535884	PASS
ARL2-SNX	11	65014182	65040570	0.064535884	PASS
ARL2BP	16	57245098	57253635	-0.423061015	PASS
ARL3	10	102673731	102714407	-0.414937136	PASS
ARL4A	7	12686856	12690934	-0.72421718	PASS
ARL4C	2	234493041	234497053	0.011001208	PASS
ARL4D	17	43398959	43401137	0.051798665	PASS
ARL5A	2	151788984	151828492	-0.30549516	PASS
ARL5B	10	18659405	18681639	0.075711544	PASS
ARL5C	17	39156894	39167484	0.041294512	PASS
ARL6	3	97764521	97801242	0.22470242	PASS
ARL6IP1	16	18791667	18801678	0.053595371	PASS
ARL6IP4	12	122980060	122982913	0.028722739	PASS
ARL6IP5	3	69084944	69106066	-0.727808231	PASS
ARL6IP6	2	152717893	152761253	-0.30549516	PASS
ARL8A	1	202133404	202144743	-0.204996646	suppress_segment_too_large
ARL8B	3	5122220	5180912	0.06149513	PASS
ARL9	4	56505209	56525481	0.115781418	suppress_segment_too_large
ARMC1	8	65602456	65634217	0.182873287	suppress_segment_too_large
ARMC10	7	103074881	103099764	-0.712149877	PASS
ARMC12	6	35737032	35749079	0.028532667	PASS
ARMC2	6	108848416	108974472	-0.355603029	PASS
ARMC3	10	22928024	23038523	0.075711544	PASS
ARMC4	10	27812164	27999048	0.075711544	PASS
ARMC5	16	31458080	31467166	0.053595371	PASS
ARMC6	19	19033575	19060311	-0.069222905	PASS
ARMC7	17	75109952	75130265	0.051798665	PASS
ARMC8	3	138187248	138298389	0.06434429	PASS
ARMC9	2	231198546	231374837	0.011001208	PASS
ARMCX1	23	101550531	101554700	0.158844052	PASS
ARMCX2	23	101655281	101659891	0.158844052	PASS
ARMCX3	23	101622797	101627843	0.158844052	PASS
ARMCX4	23	101418287	101533459	0.158844052	PASS
ARMCX5	23	102599168	102604159	0.158844052	PASS
ARMCX6	23	101615118	101618001	0.158844052	PASS
ARMH1	1	44674692	44725591	-0.736943052	PASS
ARMH2	6	24797321	24798889	0.069043418	PASS
ARMH3	10	101845599	102056193	-0.414937136	PASS
ARMH4	14	57999735	58298139	0.053252507	PASS
ARMS2	10	122454653	122457352	0.073090211	PASS
ARMT1	6	151452258	151470101	0.033894706	PASS
ARNT	1	150809705	150876768	0.079255572	PASS
ARNT2	15	80404350	80597937	-0.759380635	PASS
ARNTL	11	13276652	13387266	-0.39835217	PASS
ARNTL2	12	27332854	27425289	0.49032213	suppress_segment_too_large
ARPC1A	7	99325910	99366262	-0.710463272	PASS

ARPC1B	7	99374249	99394816	-0.710463272	PASS
ARPC2	2	218217094	218254356	0.011001208	PASS
ARPC3	12	110434825	110450422	0.028722739	PASS
ARPC4	3	9792495	9807726	0.06149513	PASS
ARPC4-TTI	3	9793082	9835401	0.06149513	PASS
ARPC5	1	183620846	183635757	0.088103245	PASS
ARPC5L	9	124862130	124877733	0.073960965	PASS
ARPIN	15	89895006	89912956	-0.759380635	PASS
ARPP19	15	52547045	52569883	-0.423772929	PASS
ARPP21	3	35638945	35794496	-0.727808231	PASS
ARR3	23	70268305	70281840	0.158844052	PASS
ARRB1	11	75264182	75351705	0.064535884	PASS
ARRB2	17	4710489	4721499	0.06854245	PASS
ARRDC1	9	137605654	137615360	0.073960965	PASS
ARRDC2	19	18001132	18014102	-0.069222905	PASS
ARRDC3	5	91368724	91383359	-0.393084436	PASS
ARRDC4	15	97960698	97973838	-0.759380635	PASS
ARRDC5	19	4890437	4902867	-0.071973357	PASS
ARSA	22	50622754	50628173	-0.953096644	PASS
ARSB	5	78777209	78986087	-0.393084436	PASS
ARSD	23	2903970	2929351	0.158844052	PASS
ARSE	23	2934632	2968310	0.158844052	PASS
ARSF	23	3041471	3112726	0.158844052	PASS
ARSG	17	68259182	68422731	0.051798665	PASS
ARSH	23	3006613	3033571	0.158844052	PASS
ARSI	5	150296343	150339307	-0.393084436	PASS
ARSJ	4	113900284	113979727	-0.677982248	PASS
ARSK	5	95555074	95605064	-0.393084436	PASS
ART1	11	3645128	3664416	-0.39835217	PASS
ART3	4	76011184	76112802	-0.677982248	PASS
ART4	12	14825569	14843533	0.49032213	suppress_segment_too_large
ART5	11	3638503	3642316	-0.39835217	PASS
ARTN	1	43933320	43937241	-0.736943052	PASS
ARV1	1	230978981	231000595	-0.204996646	suppress_segment_too_large
ARVCF	22	19969896	20016808	-0.740245994	PASS
ARX	23	25003694	25016420	0.158844052	PASS
AS3MT	10	102869516	102901899	-0.414937136	PASS
ASAH1	8	18055992	18084998	-0.311940419	PASS
ASAH2	10	50182778	50248610	-0.389033546	PASS
ASAH2B	10	50739318	50816495	-0.389033546	PASS
ASAP1	8	130052104	130443660	0.493344802	suppress_segment_too_large
ASAP2	2	9206765	9405683	0.034263343	PASS
ASAP3	1	23428563	23484568	0.048749694	PASS
ASB1	2	238426742	238452250	0.011001208	PASS
ASB10	7	151175698	151187832	-0.712149877	PASS
ASB11	23	15281697	15315656	0.158844052	PASS
ASB12	23	64224196	64230631	0.158844052	PASS
ASB13	10	5638867	5666595	0.075711544	PASS
ASB14	3	57268347	57292682	-0.727808231	PASS
ASB15	7	123567010	123639481	-0.712149877	PASS
ASB16	17	44170447	44179083	0.051798665	PASS
ASB17	1	75918873	75932431	0.052232535	PASS
ASB18	2	236194872	236264409	0.011001208	PASS
ASB2	14	93934153	93976791	-0.155273506	suppress_segment_too_large

ASB3	2	53532672	53787610	0.034263343	PASS
ASB4	7	95478444	95540232	-0.710463272	PASS
ASB5	4	176213673	176277571	0.142431244	suppress_segment_too_large
ASB6	9	129634604	129642169	0.073960965	PASS
ASB7	15	100602534	100651705	-0.759380635	PASS
ASB8	12	48147788	48181213	-0.743220499	PASS
ASB9	23	15235288	15270467	0.158844052	PASS
ASCC1	10	72096032	72217134	0.032351597	PASS
ASCC2	22	29788608	29838304	-0.740245994	PASS
ASCC3	6	100508194	100881372	-0.355603029	PASS
ASCL1	12	102957686	102960516	0.028722739	PASS
ASCL2	11	2268495	2270952	-0.39835217	PASS
ASCL3	11	8937579	8938211	-0.39835217	PASS
ASCL4	12	107774385	107776644	0.028722739	PASS
ASCL5	1	201113953	201127184	-0.204996646	suppress_segment_too_large
ASF1A	6	118894220	118909167	-0.355603029	PASS
ASF1B	19	14119509	14136956	-0.069222905	PASS
ASGR1	17	7173431	7179564	0.06854245	PASS
ASGR2	17	7101322	7115700	0.06854245	PASS
ASH1L	1	155335268	155562807	0.088103245	PASS
ASH2L	8	38105242	38144076	0.182873287	suppress_segment_too_large
ASIC1	12	50057548	50083611	-0.743220499	PASS
ASIC2	17	33013087	34174964	0.041294512	PASS
ASIC3	7	151048292	151052756	-0.712149877	PASS
ASIC4	2	219514170	219538772	0.011001208	PASS
ASIC5	4	155829729	155866273	0.142431244	suppress_segment_too_large
ASIP	20	34194569	34269344	-0.172056771	suppress_segment_too_large
ASL	7	66075798	66093558	-0.701511252	PASS
ASMT	23	1615001	1643081	-0.350651546	PASS
ASMTL	23	1403139	1453762	-0.350651546	PASS
ASNA1	19	12737139	12748323	-0.069222905	PASS
ASNS	7	97852118	97872542	-0.710463272	PASS
ASNSD1	2	189661385	189670831	0.011001208	PASS
ASPA	17	3472374	3503419	0.06854245	PASS
ASPDH	19	50511600	50514690	0.002743503	PASS
ASPG	14	104085679	104115581	-0.155273506	suppress_segment_too_large
ASPH	8	61500556	61714640	0.182873287	suppress_segment_too_large
ASPHD1	16	29900375	29919864	0.053595371	PASS
ASPHD2	22	26429273	26445015	-0.740245994	PASS
ASPM	1	197084128	197146694	0.088103245	PASS
ASPN	9	92456205	92482506	0.073960965	PASS
ASPRV1	2	69960089	69962265	-0.46122572	PASS
ASPSCR1	17	81976807	82017406	0.051798665	PASS
ASRGL1	11	62337448	62393412	0.064535884	PASS
ASS1	9	130444929	130501274	0.073960965	PASS
ASTE1	3	131013875	131027649	0.06434429	PASS
ASTL	2	96123850	96138436	0.064122364	PASS
ASTN1	1	176857302	177164973	0.088103245	PASS
ASTN2	9	116425225	117415070	0.073960965	PASS
ASXL1	20	32358330	32439319	-0.172056771	suppress_segment_too_large
ASXL2	2	25733753	25878516	0.034263343	PASS
ASXL3	18	33578233	33751192	-0.330515409	PASS
ASZ1	7	117363222	117428123	-0.712149877	PASS
ATAD2	8	123319850	123416350	0.493344802	suppress_segment_too_large

ATAD2B	2	23748664	23927114	0.034263343	PASS
ATAD3A	1	1512151	1534687	-0.358281697	PASS
ATAD3B	1	1471769	1497848	-0.358281697	PASS
ATAD3C	1	1449689	1470158	-0.358281697	PASS
ATAD5	17	30831970	30895869	0.041294512	PASS
ATAT1	6	30626842	30646823	0.069043418	PASS
ATCAY	19	3879864	3928079	-0.071973357	PASS
ATE1	10	121740421	121928801	0.073090211	PASS
ATF1	12	50763710	50821122	-0.743220499	PASS
ATF2	2	175072250	175168382	0.033541467	PASS
ATF3	1	212565334	212620777	-0.204996646	suppress_segment_too_large
ATF4	22	39519695	39522685	-0.740245994	PASS
ATF5	19	49928702	49933935	0.002743503	PASS
ATF6	1	161766294	161964070	0.088103245	PASS
ATF6B	6	32115264	32128253	0.028532667	PASS
ATF7	12	53507856	53626410	-0.743220499	PASS
ATF7IP	12	14365632	14502935	0.49032213	suppress_segment_too_large
ATF7IP2	16	10326434	10483638	0.053595371	PASS
ATG10	5	81972025	82276857	-0.393084436	PASS
ATG101	12	52069246	52077494	-0.743220499	PASS
ATG12	5	115828200	115841858	-0.393084436	PASS
ATG13	11	46617527	46674818	0.059795455	PASS
ATG14	14	55366392	55411858	0.053252507	PASS
ATG16L1	2	233210051	233295674	0.011001208	PASS
ATG16L2	11	72814308	72843674	0.064535884	PASS
ATG2A	11	64894546	64917248	0.064535884	PASS
ATG2B	14	96279202	96363870	-0.155273506	suppress_segment_too_large
ATG3	3	112532509	112562046	0.06434429	PASS
ATG4A	23	108091668	108154671	0.158844052	PASS
ATG4C	1	62784135	62865513	0.052232535	PASS
ATG4D	19	10543895	10553418	-0.107594294	PASS
ATG5	6	106045423	106325791	-0.355603029	PASS
ATG7	3	11272309	11557665	0.06149513	PASS
ATG9A	2	219219380	219229717	0.011001208	PASS
ATG9B	7	151012209	151024499	-0.712149877	PASS
ATIC	2	215311817	215349773	0.011001208	PASS
ATL1	14	50532509	50633068	0.053252507	PASS
ATL2	2	38294880	38377285	0.034263343	PASS
ATL3	11	63624087	63671921	0.064535884	PASS
ATM	11	108222484	108369102	-0.431650509	PASS
ATMIN	16	81035847	81047358	-0.423061015	PASS
ATN1	12	6924463	6942321	-0.015029783	PASS
ATOH1	4	93828753	93830964	-0.677982248	PASS
ATOH7	10	68230624	68232103	0.032351597	PASS
ATOH8	2	85751344	85788066	0.064122364	PASS
ATOX1	5	151742316	151772532	-0.393084436	PASS
ATP10A	15	25677273	25865172	-0.423772929	PASS
ATP10B	5	160563120	160852214	0.165341871	suppress_segment_too_large
ATP10D	4	47485288	47593486	0.115781418	suppress_segment_too_large
ATP11A	13	112690329	112887168	-0.426822582	PASS
ATP11B	3	182793500	182921635	0.02267528	PASS
ATP11C	23	139726346	139945276	0.158844052	PASS
ATP12A	13	24680411	24712493	-0.398748891	PASS
ATP13A1	19	19645198	19663693	-0.069222905	PASS

ATP13A2	1	16985958	17011928	0.048749694	PASS
ATP13A3	3	194402672	194498364	0.02267528	PASS
ATP13A4	3	193402077	193593111	0.02267528	PASS
ATP13A5	3	193274790	193378843	0.02267528	PASS
ATP1A1	1	116372668	116410261	0.079255572	PASS
ATP1A2	1	160115759	160143591	0.088103245	PASS
ATP1A3	19	41966582	41997497	0.048917043	PASS
ATP1A4	1	160151570	160186977	0.088103245	PASS
ATP1B1	1	169105697	169132722	0.088103245	PASS
ATP1B2	17	7646627	7657768	0.06854245	PASS
ATP1B3	3	141876124	141926514	-0.889410434	PASS
ATP1B4	23	120362085	120383249	0.158844052	PASS
ATP23	12	57906039	57959148	-0.743220499	PASS
ATP2A1	16	28878405	28904509	0.053595371	PASS
ATP2A2	12	110280756	110351093	0.028722739	PASS
ATP2A3	17	3923870	3964464	0.06854245	PASS
ATP2B1	12	89588049	89709300	0.271127429	suppress_segment_too_large
ATP2B2	3	10324023	10708007	0.06149513	PASS
ATP2B3	23	153517676	153582939	0.158844052	PASS
ATP2B4	1	203626561	203744081	-0.204996646	suppress_segment_too_large
ATP2C1	3	130850595	131016712	0.06434429	PASS
ATP2C2	16	84368527	84464187	-0.423061015	PASS
ATP4A	19	35550043	35563658	0.044838622	PASS
ATP4B	13	113648804	113658186	-0.426822582	PASS
ATP5F1A	18	46080248	46104334	-0.330515409	PASS
ATP5F1B	12	56638175	56646068	-0.743220499	PASS
ATP5F1C	10	7788129	7807815	0.075711544	PASS
ATP5F1D	19	1241746	1244826	-0.071973357	PASS
ATP5F1E	20	59025467	59032382	-0.172056771	suppress_segment_too_large
ATP5IF1	1	28236109	28246906	0.048749694	PASS
ATP5MC1	17	48892765	48895871	0.051798665	PASS
ATP5MC2	12	53632726	53677408	-0.743220499	PASS
ATP5MC3	2	175176258	175184607	0.033541467	PASS
ATP5MD	10	103389041	103396492	-0.414937136	PASS
ATP5ME	4	672436	674338	-0.358623662	PASS
ATP5MF	7	99448475	99466331	-0.710463272	PASS
ATP5MF-I	7	99419749	99466197	-0.710463272	PASS
ATP5MG	11	118401154	118431496	-0.431650509	PASS
ATP5MGL	22	42639803	42640601	-0.740245994	PASS
ATP5MPL	14	103912288	103928269	-0.155273506	suppress_segment_too_large
ATP5PB	1	111448864	111462773	0.079255572	PASS
ATP5PD	17	75038863	75046985	0.051798665	PASS
ATP5PF	21	25716503	25735673	0.209983559	PASS
ATP5PO	21	33903453	33915980	0.209983559	PASS
ATP5S	14	50312326	50335558	0.053252507	PASS
ATP6AP1	23	154428632	154436516	0.158844052	PASS
ATP6AP1I	5	82279462	82386977	-0.393084436	PASS
ATP6AP2	23	40579372	40606848	0.158844052	PASS
ATP6V0A	17	42458844	42522611	0.041294512	PASS
ATP6V0A	12	123712318	123761755	0.028722739	PASS
ATP6V0A	7	138706294	138799560	-0.712149877	PASS
ATP6V0B	1	43974487	43978295	-0.736943052	PASS
ATP6V0C	16	2513870	2520218	0.053595371	PASS
ATP6V0D	16	67438014	67481237	-0.423061015	PASS

ATP6V0D	8	85987323	86154228	0.617295349	suppress_segment_too_large
ATP6V0E	5	172983757	173035445	0.165341871	suppress_segment_too_large
ATP6V0E	7	149872968	149891204	-0.712149877	PASS
ATP6V1A	3	113747019	113812056	0.06434429	PASS
ATP6V1B	2	70935868	70965431	-0.46122572	PASS
ATP6V1B	8	20197367	20226819	-0.311940419	PASS
ATP6V1C	8	103021063	103073051	0.355469066	suppress_segment_too_large
ATP6V1C	2	10721100	10785110	0.034263343	PASS
ATP6V1D	14	67294371	67360265	0.053252507	PASS
ATP6V1E	22	17592136	17628818	-0.740245994	PASS
ATP6V1E	2	46490750	46542557	0.034263343	PASS
ATP6V1F	7	128862826	128865844	-0.712149877	PASS
ATP6V1F	7	128866308	128872044	-0.712149877	PASS
ATP6V1G	9	114587746	114598373	0.073960965	PASS
ATP6V1G	6	31544462	31548427	0.028532667	PASS
ATP6V1G	6	31530219	31546608	0.028532667	PASS
ATP6V1G	1	198523222	198540945	0.088103245	PASS
ATP6V1H	8	53715557	53843558	0.182873287	suppress_segment_too_large
ATP7A	23	77910656	78050395	0.158844052	PASS
ATP7B	13	51930436	52012125	-0.384313056	PASS
ATP8A1	4	42408373	42657105	-0.753159364	PASS
ATP8A2	13	25372071	26025851	-0.398748891	PASS
ATP8B1	18	57646426	57803315	-0.330515409	PASS
ATP8B2	1	154325553	154351307	0.088103245	PASS
ATP8B3	19	1782075	1812276	-0.071973357	PASS
ATP8B4	15	49858238	50182817	-0.423772929	PASS
ATP9A	20	51596514	51768634	-0.172056771	suppress_segment_too_large
ATP9B	18	79069285	79378287	-0.330515409	PASS
ATPAF1	1	46632737	46673867	-0.736943052	PASS
ATPAF2	17	17977409	18039209	0.06854245	PASS
ATR	3	142449235	142578826	0.02267528	PASS
ATRAID	2	27212027	27217178	0.034263343	PASS
ATRIP	3	48446710	48467645	-0.727808231	PASS
ATRN	20	3471040	3651122	-0.172056771	suppress_segment_too_large
ATRNL1	10	115093365	115948992	0.073090211	PASS
ATRX	23	77504878	77786233	0.158844052	PASS
ATXN1	6	16299112	16761491	0.069043418	PASS
ATXN10	22	45671798	45845307	-0.953096644	PASS
ATXN1L	16	71845991	71885268	-0.423061015	PASS
ATXN2	12	111443485	111599676	0.028722739	PASS
ATXN2L	16	28823035	28837237	0.053595371	PASS
ATXN3	14	92044496	92106625	-0.155273506	suppress_segment_too_large
ATXN3L	23	13318236	13320399	0.158844052	PASS
ATXN7	3	63864557	64003462	-0.727808231	PASS
ATXN7L1	7	105605067	105876604	-0.712149877	PASS
ATXN7L2	1	109483479	109492804	0.079255572	PASS
ATXN7L3	17	44191805	44200113	0.051798665	PASS
ATXN7L3	12	74537827	74545430	0.271127429	suppress_segment_too_large
AUH	9	91213815	91361913	0.073960965	PASS
AUNIP	1	25831913	25859458	0.048749694	PASS
AUP1	2	74526645	74529939	-0.46122572	PASS
AURKA	20	56369389	56392337	-0.172056771	suppress_segment_too_large
AURKAIP	1	1373730	1375495	-0.358281697	PASS
AURKB	17	8204733	8210600	0.06854245	PASS

AURKC	19	57230802	57235548	0.142581352	PASS
AUTS2	7	69598296	70793495	-0.701511252	PASS
AVEN	15	33866227	34039176	-0.423772929	PASS
AVIL	12	57797376	57818704	-0.743220499	PASS
AVL9	7	32495426	32588721	-0.72421718	PASS
AVP	20	3082556	3084724	-0.172056771	suppress_segment_too_large
AVPI1	10	97677424	97687323	-0.414937136	PASS
AVPR1A	12	63142759	63150942	-0.743220499	PASS
AVPR1B	1	206109692	206117699	-0.204996646	suppress_segment_too_large
AVPR2	23	153902531	153907166	0.158844052	PASS
AWAT1	23	70234655	70240627	0.158844052	PASS
AWAT2	23	70040542	70049938	0.158844052	PASS
AXDND1	1	179365720	179554735	0.088103245	PASS
AXIN1	16	287440	352673	0.053595371	PASS
AXIN2	17	65528563	65561647	0.051798665	PASS
AXL	19	41219203	41261766	0.048917043	PASS
AZGP1	7	99966720	99976157	-0.710463272	PASS
AZI2	3	28315003	28349127	0.06149513	PASS
AZIN1	8	102826357	102893864	0.355469066	suppress_segment_too_large
AZIN2	1	33081104	33120530	0.048749694	PASS
AZU1	19	825097	832018	-0.071973357	PASS
B2M	15	44711487	44718877	-0.423772929	PASS
B3GALNT	3	161083883	161105384	0.02267528	PASS
B3GALNT	1	235449923	235504481	-0.204996646	suppress_segment_too_large
B3GALT1	2	167868948	167874041	0.319987345	PASS
B3GALT2	1	193179045	193186654	0.088103245	PASS
B3GALT4	6	33277132	33284832	0.028532667	PASS
B3GALT5	21	39556442	39673137	0.209983559	PASS
B3GALT6	1	1232226	1235041	-0.358281697	PASS
B3GAT1	11	134378504	134411918	0.105032849	PASS
B3GAT2	6	70856679	70957038	-0.250122709	PASS
B3GAT3	11	62615296	62622175	0.064535884	PASS
B3GLCT	13	31199936	31332276	-0.398748891	PASS
B3GNT2	2	62196113	62224731	-0.46122572	PASS
B3GNT3	19	17794828	17813082	-0.069222905	PASS
B3GNT4	12	122203543	122208952	0.028722739	PASS
B3GNT5	3	183253244	183298504	0.02267528	PASS
B3GNT6	11	77034398	77041973	0.064535884	PASS
B3GNT7	2	231395543	231401164	0.011001208	PASS
B3GNT8	19	41425359	41428730	0.048917043	PASS
B3GNT9	16	67148105	67151214	-0.423061015	PASS
B3GNTL1	17	82942155	83051810	0.051798665	PASS
B4GALNT	12	57623410	57633355	-0.743220499	PASS
B4GALNT	17	49132460	49176840	0.051798665	PASS
B4GALNT	12	460364	563509	-0.015029783	PASS
B4GALNT	11	369796	382116	-0.39835217	PASS
B4GALT1	9	33104082	33167356	0.073960965	PASS
B4GALT2	1	43978943	43991170	-0.736943052	PASS
B4GALT3	1	161171310	161177968	0.088103245	PASS
B4GALT4	3	119211732	119241103	0.06434429	PASS
B4GALT5	20	49632945	49713878	-0.172056771	suppress_segment_too_large
B4GALT6	18	31622247	31685836	-0.330515409	PASS
B4GALT7	5	177600100	177610347	0.165341871	suppress_segment_too_large
B4GAT1	11	66345372	66347692	0.064535884	PASS

B9D1	17	19337554	19378193	0.06854245	PASS
B9D2	19	41354421	41364173	0.048917043	PASS
BAALC	8	103140710	103230305	0.355469066	suppress_segment_too_large
BAAT	9	101360417	101383519	0.073960965	PASS
BABAM1	19	17267350	17281249	-0.069222905	PASS
BABAM2	2	27889941	28338901	0.034263343	PASS
BACE1	11	117285207	117316259	-0.431650509	PASS
BACE2	21	41167801	41282518	0.209983559	PASS
BACH1	21	29194071	29630751	0.209983559	PASS
BACH2	6	89926529	90296908	-0.355603029	PASS
BAD	11	64269830	64284704	0.064535884	PASS
BAG1	9	33247820	33264720	0.073960965	PASS
BAG2	6	57172326	57189833	0.239805577	suppress_segment_too_large
BAG3	10	119651370	119677819	0.073090211	PASS
BAG4	8	38176533	38213301	0.182873287	suppress_segment_too_large
BAG5	14	103556544	103562831	-0.155273506	suppress_segment_too_large
BAG6	6	31639028	31652705	0.028532667	PASS
BAHCC1	17	81395475	81466332	0.051798665	PASS
BAHD1	15	40439721	40468242	-0.423772929	PASS
BAIAP2	17	81035122	81117432	0.051798665	PASS
BAIAP2L1	7	98291651	98401068	-0.710463272	PASS
BAIAP2L2	22	38084889	38110670	-0.740245994	PASS
BAIAP3	16	1333601	1349441	0.053595371	PASS
BAK1	6	33572547	33580293	0.028532667	PASS
BAMBI	10	28677342	28682939	0.075711544	PASS
BANF1	11	66002079	66004149	0.064535884	PASS
BANF2	20	17693672	17735871	-0.172056771	suppress_segment_too_large
BANK1	4	101411286	102074812	-0.677982248	PASS
BANP	16	87949244	88077318	-0.423061015	PASS
BAP1	3	52401013	52410350	-0.727808231	PASS
BARD1	2	214725646	214809711	0.011001208	PASS
BARHL1	9	132582185	132590266	0.073960965	PASS
BARHL2	1	90711539	90717237	0.079255572	PASS
BARX1	9	93951622	93955372	0.073960965	PASS
BARX2	11	129375940	129452279	-0.431650509	PASS
BASP1	5	17065598	17276843	0.073527871	PASS
BATF	14	75522425	75547015	-0.155273506	suppress_segment_too_large
BATF2	11	64987943	64997045	0.064535884	PASS
BATF3	1	212686418	212699985	-0.204996646	suppress_segment_too_large
BAX	19	48954815	48961798	0.002743503	PASS
BAZ1A	14	34752731	34875647	0.053252507	PASS
BAZ1B	7	73440398	73522278	-0.701511252	PASS
BAZ2A	12	56595596	56636816	-0.743220499	PASS
BAZ2B	2	159318979	159616692	0.054749241	PASS
BBC3	19	47220822	47232766	0.002743503	PASS
BBIP1	10	110898730	110919274	0.073090211	PASS
BBOF1	14	74019353	74082863	0.053252507	PASS
BBOX1	11	27040725	27127809	-0.359426047	PASS
BBS1	11	66510606	66533627	0.064535884	PASS
BBS10	12	76344474	76348442	0.271127429	suppress_segment_too_large
BBS12	4	122732702	122744943	0.142431244	suppress_segment_too_large
BBS2	16	56466836	56520283	-0.423061015	PASS
BBS4	15	72686179	72738476	-0.759380635	PASS
BBS5	2	169479178	169506655	0.033541467	PASS

BBS7	4	121824440	121870497	0.142431244	suppress_segment_too_large
BBS9	7	33129244	33606068	-0.72421718	PASS
BBX	3	107522936	107811324	0.22470242	PASS
BCAM	19	44809059	44821421	0.002743503	PASS
BCAN	1	156641390	156659532	0.088103245	PASS
BCAP29	7	107579977	107629170	-0.712149877	PASS
BCAP31	23	153700492	153724746	0.158844052	PASS
BCAR1	16	75228187	75268053	-0.423061015	PASS
BCAR3	1	93561786	93847150	0.079255572	PASS
BCAS1	20	53936777	54070594	-0.172056771	suppress_segment_too_large
BCAS2	1	114567557	114581639	0.079255572	PASS
BCAS3	17	60677453	61392838	0.051798665	PASS
BCAS4	20	50794894	50882676	-0.172056771	suppress_segment_too_large
BCAT1	12	24810022	24949459	0.49032213	suppress_segment_too_large
BCAT2	19	48795062	48811029	0.002743503	PASS
BCCIP	10	125823546	125853695	0.073090211	PASS
BCDIN3D	12	49836039	49843129	-0.743220499	PASS
BCHE	3	165772904	165837472	0.02267528	PASS
BCKDHA	19	41397460	41425005	0.048917043	PASS
BCKDHB	6	80106647	80346270	-0.250122709	PASS
BCKDK	16	31106107	31112791	0.053595371	PASS
BCL10	1	85265776	85276904	0.587598296	PASS
BCL11A	2	60450520	60555154	-0.46122572	PASS
BCL11B	14	99169287	99271524	-0.155273506	suppress_segment_too_large
BCL2	18	63123346	63320128	-0.330515409	PASS
BCL2A1	15	79960889	79971446	-0.759380635	PASS
BCL2L1	20	31664452	31723989	-0.172056771	suppress_segment_too_large
BCL2L10	15	52109263	52112775	-0.423772929	PASS
BCL2L11	2	111119378	111168447	0.040971718	PASS
BCL2L12	19	49665142	49673916	0.002743503	PASS
BCL2L13	22	17628855	17730855	-0.740245994	PASS
BCL2L14	12	12049844	12211084	0.49032213	suppress_segment_too_large
BCL2L15	1	113878168	113887547	0.079255572	PASS
BCL2L2	14	23298790	23311759	0.053252507	PASS
BCL2L2-P	14	23306835	23325369	0.053252507	PASS
BCL3	19	44747705	44760044	0.002743503	PASS
BCL6	3	187721377	187745727	0.02267528	PASS
BCL6B	17	7023020	7030290	0.06854245	PASS
BCL7A	12	122019422	122062044	0.028722739	PASS
BCL7B	7	73536356	73558002	-0.701511252	PASS
BCL7C	16	30833626	30894960	0.053595371	PASS
BCL9	1	147541412	147626216	0.079255572	PASS
BCL9L	11	118893875	118925608	-0.431650509	PASS
BCLAF1	6	136256627	136289851	0.033894706	PASS
BCLAF3	23	19912860	19970298	0.158844052	PASS
BCO1	16	81238448	81291142	-0.423061015	PASS
BCO2	11	112175467	112224699	-0.431650509	PASS
BCOR	23	40049815	40177329	0.158844052	PASS
BCORL1	23	129981107	130058083	0.158844052	PASS
BCR	22	23179704	23318037	-0.740245994	PASS
BCS1L	2	218658764	218663443	0.011001208	PASS
BDH1	3	197509783	197573323	0.02267528	PASS
BDH2	4	103079435	103099883	-0.677982248	PASS
BDKRB1	14	96255824	96268967	-0.155273506	suppress_segment_too_large

BDKRB2	14	96204679	96244166	-0.155273506	suppress_segment_too_large
BDNF	11	27654893	27722058	-0.359426047	PASS
BDP1	5	71455615	71567820	-0.393084436	PASS
BEAN1	16	66427297	66493529	-0.423061015	PASS
BECN1	17	42810134	42833350	0.041294512	PASS
BECN2	1	241957767	241959062	-0.287484925	PASS
BEGAIN	14	100537147	100587413	-0.155273506	suppress_segment_too_large
BEND2	23	18162931	18220883	0.158844052	PASS
BEND3	6	107065182	107115269	-0.355603029	PASS
BEND4	4	42110938	42152878	-0.753159364	PASS
BEND5	1	48727523	48776969	-0.736943052	PASS
BEND6	6	56955126	57027342	0.239805577	suppress_segment_too_large
BEND7	10	13438484	13528974	0.075711544	PASS
BEST1	11	61949821	61965515	0.064535884	PASS
BEST2	19	12751702	12758458	-0.069222905	PASS
BEST3	12	69643360	69699476	-0.743220499	PASS
BEST4	1	44783585	44787705	-0.736943052	PASS
BET1	7	93962762	94004382	-0.710463272	PASS
BET1L	11	167784	207428	-0.39835217	PASS
BEX1	23	103062651	103064240	0.158844052	PASS
BEX2	23	103309346	103311046	0.158844052	PASS
BEX3	23	103376340	103378077	0.158844052	PASS
BEX4	23	103215092	103217246	0.158844052	PASS
BEX5	23	102153708	102156057	0.158844052	PASS
BFAR	16	14632815	14669236	0.053595371	PASS
BFSP1	20	17493905	17569220	-0.172056771	suppress_segment_too_large
BFSP2	3	133399995	133475222	0.06434429	PASS
BGLAP	1	156241962	156243321	0.088103245	PASS
BGN	23	153494939	153509554	0.158844052	PASS
BHLHA15	7	98211427	98212979	-0.710463272	PASS
BHLHA9	17	1270559	1271460	0.06854245	PASS
BHLHB9	23	102720688	102753540	0.158844052	PASS
BHLHE22	8	64580367	64583628	0.182873287	suppress_segment_too_large
BHLHE23	20	63005927	63007035	-0.172056771	suppress_segment_too_large
BHLHE40	3	4979116	4985323	0.06149513	PASS
BHLHE41	12	26120026	26125127	0.49032213	suppress_segment_too_large
BHMG1	19	45733251	45764534	0.002743503	PASS
BHMT	5	79111779	79132290	-0.393084436	PASS
BHMT2	5	79069717	79089466	-0.393084436	PASS
BICC1	10	58513140	58831437	0.032351597	PASS
BICD1	12	32106835	32383633	0.49032213	suppress_segment_too_large
BICD2	9	92711363	92764812	0.073960965	PASS
BICDL1	12	119989869	120094494	0.028722739	PASS
BICDL2	16	3027682	3036926	0.053595371	PASS
BICRA	19	47608196	47703277	0.002743503	PASS
BICRAL	6	42746958	42868560	0.028532667	PASS
BID	22	17734138	17774770	-0.740245994	PASS
BIK	22	43110748	43129712	-0.740245994	PASS
BIN1	2	127048027	127107355	-0.359440172	PASS
BIN2	12	51281038	51324668	-0.743220499	PASS
BIN3	8	22620418	22669148	-0.311940419	PASS
BIRC2	11	102347211	102378670	0.32805343	suppress_segment_too_large
BIRC3	11	102317450	102339403	0.32805343	suppress_segment_too_large
BIRC5	17	78214186	78225636	0.051798665	PASS

BIRC6	2	32357028	32618899	0.034263343	PASS
BIRC7	20	63235883	63240507	-0.172056771	suppress_segment_too_large
BIRC8	19	53289601	53291626	0.416834572	PASS
BIVM	13	102799049	102841535	-0.426822582	PASS
BIVM-ERC	13	102799110	102875994	-0.426822582	PASS
BLCAP	20	37492472	37527931	-0.172056771	suppress_segment_too_large
BLID	11	122115354	122116215	-0.431650509	PASS
BLK	8	11486894	11564604	-0.311940419	PASS
BLM	15	90717327	90816165	-0.759380635	PASS
BLMH	17	30248195	30292056	0.041294512	PASS
BLNK	10	96191702	96271587	-0.414937136	PASS
BLOC1S1	12	55716037	55720087	-0.743220499	PASS
BLOC1S1-	12	55716036	55724703	-0.743220499	PASS
BLOC1S2	10	100273280	100286712	-0.414937136	PASS
BLOC1S3	19	45178745	45181801	0.002743503	PASS
BLOC1S4	4	6716055	6717671	-0.358623662	PASS
BLOC1S5	6	8013567	8064414	0.069043418	PASS
BLOC1S5-	6	7881522	8064364	0.069043418	PASS
BLOC1S6	15	45587123	45615999	-0.423772929	PASS
BLVRA	7	43758680	43807342	-0.72421718	PASS
BLVRB	19	40447765	40465840	0.048917043	PASS
BLZF1	1	169367970	169396540	0.088103245	PASS
BMF	15	40087890	40108892	-0.423772929	PASS
BMI1	10	22321211	22331484	0.075711544	PASS
BMP1	8	22164736	22212326	-0.311940419	PASS
BMP10	2	68865481	68871517	-0.46122572	PASS
BMP15	23	50910784	50916607	0.158844052	PASS
BMP2	20	6767664	6780280	-0.172056771	suppress_segment_too_large
BMP2K	4	78776342	78916372	-0.677982248	PASS
BMP3	4	81030965	81057531	-0.677982248	PASS
BMP4	14	53949736	53958761	0.053252507	PASS
BMP5	6	55753645	55875564	0.239805577	suppress_segment_too_large
BMP6	6	7726797	7881422	0.069043418	PASS
BMP7	20	57168748	57266629	-0.172056771	suppress_segment_too_large
BMP8A	1	39491646	39525935	0.048749694	PASS
BMP8B	1	39757182	39788861	0.048749694	PASS
BMPER	7	33904308	34156356	-0.72421718	PASS
BMPR1A	10	86756601	86932838	-0.461254852	PASS
BMPR1B	4	94757968	95158448	-0.677982248	PASS
BMPR2	2	202376936	202567751	0.011001208	PASS
BMS1	10	42782801	42834937	-0.389033546	PASS
BMT2	7	112819147	112939916	-0.712149877	PASS
BMX	23	15464246	15556529	0.158844052	PASS
BNC1	15	83255903	83284714	-0.759380635	PASS
BNC2	9	16409503	16870843	0.073960965	PASS
BNIP1	5	173144442	173164387	0.165341871	suppress_segment_too_large
BNIP2	15	59659146	59689534	-0.759380635	PASS
BNIP3	10	131966455	131982013	0.073090211	PASS
BNIP3L	8	26382898	26505636	-0.311940419	PASS
BNIPL	1	151036321	151047720	0.079255572	PASS
BOC	3	113211003	113287459	0.06434429	PASS
BOD1	5	173607514	173616660	0.165341871	suppress_segment_too_large
BOD1L1	4	13568738	13627723	-0.358623662	PASS
BOD1L2	18	57147062	57150300	-0.330515409	PASS

BOLA1	1	149887890	149900798	0.079255572	PASS
BOLA3	2	74135398	74147994	-0.46122572	PASS
BOLL	2	197726879	197786762	0.011001208	PASS
BOP1	8	144262102	144291370	0.699132336	PASS
BORA	13	72727749	72756198	-0.384313056	PASS
BORCS5	12	12357079	12469694	0.49032213	suppress_segment_too_large
BORCS6	17	8188333	8190907	0.06854245	PASS
BORCS7	10	102854223	102864961	-0.414937136	PASS
BORCS7-A	10	102854272	102901899	-0.414937136	PASS
BORCS8	19	19176903	19192591	-0.069222905	PASS
BORCS8-M	19	19145567	19192158	-0.069222905	PASS
BPGM	7	134646808	134679813	-0.712149877	PASS
BPHL	6	3118374	3153578	0.069043418	PASS
BPI	20	38304123	38337505	-0.172056771	suppress_segment_too_large
BPIFA1	20	33235995	33243311	-0.172056771	suppress_segment_too_large
BPIFA2	20	33161768	33181412	-0.172056771	suppress_segment_too_large
BPIFA3	20	33217310	33227758	-0.172056771	suppress_segment_too_large
BPIFB1	20	33273480	33309878	-0.172056771	suppress_segment_too_large
BPIFB2	20	33007600	33023709	-0.172056771	suppress_segment_too_large
BPIFB3	20	33055424	33073628	-0.172056771	suppress_segment_too_large
BPIFB4	20	33079644	33111751	-0.172056771	suppress_segment_too_large
BPIFB6	20	33031648	33044047	-0.172056771	suppress_segment_too_large
BPIFC	22	32413847	32464484	-0.740245994	PASS
BPNT1	1	220057482	220090462	-0.204996646	suppress_segment_too_large
BPTF	17	67825524	67984378	0.051798665	PASS
BRAF	7	140719327	140924928	-0.712149877	PASS
BRAP	12	111642146	111685986	0.028722739	PASS
BRAT1	7	2537877	2555727	-0.72421718	PASS
BRCA1	17	43044295	43170245	0.041294512	PASS
BRCA2	13	32315474	32400266	-0.398748891	PASS
BRCC3	23	155071420	155123074	0.158844052	PASS
BRD1	22	49773283	49827512	-0.953096644	PASS
BRD2	6	32968660	32981505	0.028532667	PASS
BRD3	9	134030305	134068535	0.073960965	PASS
BRD3OS	9	134025439	134034666	0.073960965	PASS
BRD4	19	15235519	15332545	-0.069222905	PASS
BRD7	16	50313487	50368934	0.411512417	PASS
BRD8	5	138139766	138178986	-0.393084436	PASS
BRD9	5	850291	892824	0.073527871	PASS
BRDT	1	91949371	92014426	0.079255572	PASS
BRF1	14	105209286	105315589	-0.155273506	suppress_segment_too_large
BRF2	8	37843268	37849904	0.182873287	suppress_segment_too_large
BRI3	7	98252379	98310441	-0.710463272	PASS
BRI3BP	12	124993700	125031231	0.028722739	PASS
BRICD5	16	2209253	2211950	0.053595371	PASS
BRINP1	9	119153458	119369467	0.073960965	PASS
BRINP2	1	177171497	177282422	0.088103245	PASS
BRINP3	1	190097662	190478404	0.088103245	PASS
BRIP1	17	61681266	61863521	0.051798665	PASS
BRIX1	5	34915376	34925996	0.073527871	PASS
BRK1	3	10115592	10127190	0.06149513	PASS
BRMS1	11	66337333	66345125	0.064535884	PASS
BRMS1L	14	35826318	35932325	0.053252507	PASS
BROX	1	222712553	222735196	-0.204996646	suppress_segment_too_large

BRPF1	3	9731729	9748018	0.06149513	PASS
BRPF3	6	36196744	36232790	0.028532667	PASS
BRS3	23	136487887	136493780	0.158844052	PASS
BRSK1	19	55282072	55312533	0.142581352	PASS
BRSK2	11	1389899	1462689	-0.39835217	PASS
BRWD1	21	39184176	39321559	0.209983559	PASS
BRWD3	23	80670854	80809688	0.158844052	PASS
BSCL2	11	62690275	62709845	0.064535884	PASS
BSDC1	1	32365103	32394731	0.048749694	PASS
BSG	19	571277	583493	-0.071973357	PASS
BSN	3	49554489	49671545	-0.727808231	PASS
BSND	1	54998193	55011784	-0.736943052	PASS
BSPH1	19	47968046	47992170	0.002743503	PASS
BSPRY	9	113349541	113371233	0.073960965	PASS
BST1	4	15702950	15738313	-0.358623662	PASS
BST2	19	17402939	17405648	-0.069222905	PASS
BSX	11	122977570	122981720	-0.431650509	PASS
BTAF1	10	91923769	92030325	-0.414937136	PASS
BTBD1	15	83016422	83067354	-0.759380635	PASS
BTBD10	11	13388001	13463297	-0.39835217	PASS
BTBD11	12	107318413	107659642	0.028722739	PASS
BTBD16	10	122271306	122338162	0.073090211	PASS
BTBD17	17	74356416	74361946	0.051798665	PASS
BTBD18	11	57743514	57751781	0.27006553	suppress_segment_too_large
BTBD19	1	44808482	44815585	-0.736943052	PASS
BTBD2	19	1985438	2034881	-0.071973357	PASS
BTBD3	20	11890723	11926609	-0.172056771	suppress_segment_too_large
BTBD6	14	105248490	105251093	-0.155273506	suppress_segment_too_large
BTBD7	14	93237550	93333092	-0.155273506	suppress_segment_too_large
BTBD8	1	92080305	92184725	0.079255572	PASS
BTBD9	6	38168451	38640148	0.028532667	PASS
BTC	4	74744759	74794686	0.115781418	suppress_segment_too_large
BTD	3	15601341	15647640	0.06149513	PASS
BTF3	5	73498408	73505635	-0.393084436	PASS
BTF3L4	1	52056125	52090716	-0.736943052	PASS
BTG1	12	92140278	92145897	0.271127429	suppress_segment_too_large
BTG2	1	203305491	203309602	-0.204996646	suppress_segment_too_large
BTG3	21	17593653	17612947	0.758930684	suppress_segment_too_large
BTG4	11	111467526	111512354	-0.431650509	PASS
BTK	23	101349447	101390796	0.158844052	PASS
BTLA	3	112463968	112499561	0.06434429	PASS
BTN1A1	6	26501221	26510422	0.069043418	PASS
BTN2A1	6	26457904	26476621	0.069043418	PASS
BTN2A2	6	26383096	26394874	0.069043418	PASS
BTN3A1	6	26402237	26415216	0.069043418	PASS
BTN3A2	6	26365159	26378320	0.069043418	PASS
BTN3A3	6	26440472	26453415	0.069043418	PASS
BTNL2	6	32393963	32407128	0.028532667	PASS
BTNL3	5	180988845	181006727	0.165341871	suppress_segment_too_large
BTNL8	5	180899077	180950906	0.165341871	suppress_segment_too_large
BTNL9	5	181040225	181061523	0.165341871	suppress_segment_too_large
BTRC	10	101354033	101557321	-0.414937136	PASS
BUB1	2	110637698	110678114	0.040971718	PASS
BUB1B	15	40161023	40221136	-0.423772929	PASS

BUB1B-PA	15	40217428	40276396	-0.423772929	PASS
BUB3	10	123154277	123170467	0.073090211	PASS
BUD13	11	116748170	116772988	-0.431650509	PASS
BUD23	7	73683025	73705161	-0.701511252	PASS
BUD31	7	99408641	99419616	-0.710463272	PASS
BVES	6	105096822	105137174	-0.355603029	PASS
BX276092	23	71667542	71671524	0.158844052	PASS
BYSL	6	41921188	41933046	0.028532667	PASS
BZW1	2	200810594	200827338	0.011001208	PASS
BZW2	7	16646131	16706523	-0.72421718	PASS
C10orf105	10	71711702	71737824	0.032351597	PASS
C10orf113	10	21125763	21146559	0.075711544	PASS
C10orf120	10	122697709	122699822	0.073090211	PASS
C10orf142	10	44292569	44294649	-0.389033546	PASS
C10orf143	10	130020025	130110817	0.073090211	PASS
C10orf53	10	49679651	49710261	-0.389033546	PASS
C10orf55	10	73909969	73922777	0.032351597	PASS
C10orf62	10	97589727	97590934	-0.414937136	PASS
C10orf67	10	23201916	23344845	0.075711544	PASS
C10orf71	10	49299193	49327487	-0.389033546	PASS
C10orf82	10	116663696	116670264	0.073090211	PASS
C10orf88	10	122930903	122954403	0.073090211	PASS
C10orf90	10	126424997	126670446	0.073090211	PASS
C10orf95	10	102449837	102451543	-0.414937136	PASS
C10orf99	10	84173738	84185294	0.032351597	PASS
C11orf1	11	111878935	111885975	-0.431650509	PASS
C11orf16	11	8920076	8933006	-0.39835217	PASS
C11orf21	11	2295645	2303049	-0.39835217	PASS
C11orf24	11	68261335	68272001	0.064535884	PASS
C11orf40	11	4571423	4577820	-0.39835217	PASS
C11orf42	11	6205566	6211132	-0.39835217	PASS
C11orf45	11	128899565	128906035	-0.431650509	PASS
C11orf49	11	46936689	47164385	0.059795455	PASS
C11orf52	11	111918032	111926872	-0.431650509	PASS
C11orf53	11	111245805	111286401	-0.431650509	PASS
C11orf54	11	93741591	93764749	0.064535884	PASS
C11orf58	11	16613132	16756881	-0.39835217	PASS
C11orf65	11	108308519	108467531	-0.431650509	PASS
C11orf68	11	65916808	65919117	0.064535884	PASS
C11orf71	11	114391443	114400511	-0.431650509	PASS
C11orf74	11	36594493	36659290	-0.359426047	PASS
C11orf80	11	66744451	66843328	0.064535884	PASS
C11orf86	11	66975277	66977004	0.064535884	PASS
C11orf87	11	109422120	109429114	-0.431650509	PASS
C11orf88	11	111514785	111537031	-0.431650509	PASS
C11orf91	11	33698261	33700801	-0.359426047	PASS
C11orf94	11	45906513	45907282	0.059795455	PASS
C11orf95	11	63759892	63768775	0.064535884	PASS
C11orf96	11	43942505	43944338	0.059795455	PASS
C11orf97	11	94512432	94532123	0.064535884	PASS
C11orf98	11	62662816	62665217	0.064535884	PASS
C12orf10	12	53299686	53307177	-0.743220499	PASS
C12orf29	12	88033846	88050160	0.271127429	suppress_segment_too_large
C12orf4	12	4487728	4538508	-0.015029783	PASS

C12orf40	12	39626167	39908300	-0.46813528	PASS
C12orf42	12	103237591	103496010	0.028722739	PASS
C12orf43	12	121000486	121016502	0.028722739	PASS
C12orf45	12	104986310	105074197	0.028722739	PASS
C12orf49	12	116710185	116738070	0.028722739	PASS
C12orf50	12	87980035	88034037	0.271127429	suppress_segment_too_large
C12orf54	12	48482498	48496386	-0.743220499	PASS
C12orf56	12	64264762	64391192	-0.743220499	PASS
C12orf57	12	6942978	6946003	-0.015029783	PASS
C12orf60	12	14803572	14906586	0.49032213	suppress_segment_too_large
C12orf65	12	123232916	123257959	0.028722739	PASS
C12orf66	12	64186316	64222296	-0.743220499	PASS
C12orf71	12	27081058	27082514	0.49032213	suppress_segment_too_large
C12orf73	12	103950202	103965708	0.028722739	PASS
C12orf75	12	105235290	105396097	0.028722739	PASS
C12orf76	12	110027028	110073686	0.028722739	PASS
C13orf42	13	51082119	51200252	-0.384313056	PASS
C14orf119	14	23094765	23100462	0.053252507	PASS
C14orf132	14	96039324	96093889	-0.155273506	suppress_segment_too_large
C14orf177	14	98711613	98717766	-0.155273506	suppress_segment_too_large
C14orf178	14	77760830	77769742	-0.155273506	suppress_segment_too_large
C14orf180	14	104579684	104590515	-0.155273506	suppress_segment_too_large
C14orf28	14	44897295	44907257	0.053252507	PASS
C14orf39	14	60396469	60515543	0.053252507	PASS
C14orf93	14	22985908	23010166	0.053252507	PASS
C15orf38-A	15	89834308	89912882	-0.759380635	PASS
C15orf39	15	75195643	75212169	-0.759380635	PASS
C15orf40	15	82988441	83011641	-0.759380635	PASS
C15orf41	15	36579611	36810248	-0.423772929	PASS
C15orf48	15	45430529	45448761	-0.423772929	PASS
C15orf53	15	38628005	39180499	-0.423772929	PASS
C15orf61	15	67521068	67530143	-0.759380635	PASS
C15orf62	15	40770080	40772449	-0.423772929	PASS
C15orf65	15	55408548	55418764	-0.759380635	PASS
C16orf45	16	15434295	15625028	0.053595371	PASS
C16orf46	16	81053497	81077267	-0.423061015	PASS
C16orf54	16	29742463	29746006	0.053595371	PASS
C16orf58	16	31489471	31509309	0.053595371	PASS
C16orf70	16	67109958	67148539	-0.423061015	PASS
C16orf71	16	4734272	4749396	0.053595371	PASS
C16orf72	16	9091648	9121640	0.053595371	PASS
C16orf74	16	85690084	85751129	-0.423061015	PASS
C16orf78	16	49373823	49399431	0.411512417	PASS
C16orf86	16	67666816	67668758	-0.423061015	PASS
C16orf87	16	46796607	46831411	0.053595371	PASS
C16orf89	16	5044122	5066110	0.053595371	PASS
C16orf90	16	3493484	3495480	0.053595371	PASS
C16orf91	16	1419744	1420800	0.053595371	PASS
C16orf92	16	30023334	30027736	0.053595371	PASS
C16orf95	16	87083562	87317420	-0.423061015	PASS
C16orf96	16	4556490	4600714	0.053595371	PASS
C17orf100	17	6651718	6693202	0.06854245	PASS
C17orf107	17	4899418	4902932	0.06854245	PASS
C17orf113	17	42038232	42050614	0.041294512	PASS

C17orf47	17	58541587	58544368	0.051798665	PASS
C17orf49	17	7014495	7017525	0.06854245	PASS
C17orf50	17	35760897	35765079	0.041294512	PASS
C17orf51	17	21428381	21574517	0.041294512	PASS
C17orf53	17	44141906	44162476	0.051798665	PASS
C17orf58	17	67991101	67996431	0.051798665	PASS
C17orf64	17	60392429	60431421	0.051798665	PASS
C17orf67	17	56791913	56838773	0.051798665	PASS
C17orf75	17	32324565	32350023	0.041294512	PASS
C17orf78	17	37375986	37392708	0.041294512	PASS
C17orf80	17	73232233	73248947	0.051798665	PASS
C17orf97	17	410327	431062	0.06854245	PASS
C17orf98	17	38835088	38841455	0.041294512	PASS
C17orf99	17	78146353	78166177	0.051798665	PASS
C18orf21	18	35972083	35979286	-0.330515409	PASS
C18orf25	18	46173553	46266991	-0.330515409	PASS
C18orf32	18	49477250	49487252	-0.330515409	PASS
C18orf54	18	54357917	54385218	-0.330515409	PASS
C18orf63	18	74315813	74359187	-0.330515409	PASS
C19orf12	19	29698886	29715789	0.044838622	PASS
C19orf18	19	57958437	57974534	0.142581352	PASS
C19orf24	19	1275438	1279249	-0.071973357	PASS
C19orf25	19	1461143	1479556	-0.071973357	PASS
C19orf33	19	38304161	38305009	0.048917043	PASS
C19orf38	19	10836575	10869790	-0.107594294	PASS
C19orf44	19	16496311	16521352	-0.069222905	PASS
C19orf47	19	40319536	40348527	0.048917043	PASS
C19orf48	19	50797704	50804929	0.002743503	PASS
C19orf53	19	13774168	13778462	-0.069222905	PASS
C19orf54	19	40740856	40751553	0.048917043	PASS
C19orf57	19	13882348	13906452	-0.069222905	PASS
C19orf66	19	10086122	10093252	-0.107594294	PASS
C19orf67	19	14081619	14085875	-0.069222905	PASS
C19orf70	19	5678421	5680896	-0.071973357	PASS
C19orf71	19	3539154	3544030	-0.071973357	PASS
C19orf73	19	49118397	49119140	0.002743503	PASS
C19orf81	19	50649445	50659310	0.002743503	PASS
C19orf84	19	51388289	51390574	0.002743503	PASS
C1D	2	68041130	68110948	-0.46122572	PASS
C1GALT1	7	7156934	7248651	-0.72421718	PASS
C1GALT1(	23	120625793	120630150	0.158844052	PASS
C1GALT1(	2	43675151	43676322	0.034263343	PASS
C1QA	1	22636506	22639608	0.048749694	PASS
C1QB	1	22652762	22661538	0.048749694	PASS
C1QBP	17	5432777	5448830	0.06854245	PASS
C1QC	1	22643630	22648110	0.048749694	PASS
C1QL1	17	44959693	44968071	0.051798665	PASS
C1QL2	2	119156243	119158889	-0.359440172	PASS
C1QL3	10	16513743	16522005	0.075711544	PASS
C1QL4	12	49332411	49337188	-0.743220499	PASS
C1QTNF1	17	79022814	79049788	0.051798665	PASS
C1QTNF1:	1	1242446	1246722	-0.358281697	PASS
C1QTNF2	5	160347751	160370641	0.165341871	suppress_segment_too_large
C1QTNF3	5	34019448	34043832	0.073527871	PASS

C1QTNF3-	5	33987174	34124528	0.073527871	PASS
C1QTNF4	11	47589664	47594659	0.059795455	PASS
C1QTNF5	11	119338939	119340940	-0.431650509	PASS
C1QTNF6	22	37180167	37199385	-0.740245994	PASS
C1QTNF7	4	15339818	15446166	-0.358623662	PASS
C1QTNF8	16	1090005	1096244	0.053595371	PASS
C1QTNF9	13	24307166	24322535	-0.398748891	PASS
C1QTNF9l	13	23890525	23902655	-0.398748891	PASS
C1R	12	7080199	7092607	-0.015029783	PASS
C1RL	12	7089587	7109273	-0.015029783	PASS
C1S	12	6988259	7071032	-0.015029783	PASS
C1orf100	1	244352635	244389663	-0.145670469	suppress_likely_unfocal_large_gain
C1orf105	1	172420688	172468831	0.088103245	PASS
C1orf109	1	37681570	37692249	0.048749694	PASS
C1orf112	1	169662007	169854080	0.088103245	PASS
C1orf115	1	220689845	220699157	-0.204996646	suppress_segment_too_large
C1orf116	1	207018521	207032756	-0.204996646	suppress_segment_too_large
C1orf122	1	37806979	37809454	0.048749694	PASS
C1orf123	1	53214099	53220617	-0.736943052	PASS
C1orf127	1	10946471	10982037	0.364796772	PASS
C1orf131	1	231223763	231241187	-0.204996646	suppress_segment_too_large
C1orf141	1	67092165	67231853	0.052232535	PASS
C1orf146	1	92217940	92245813	0.079255572	PASS
C1orf158	1	12746215	12763699	0.048749694	PASS
C1orf159	1	1081818	1116361	-0.358281697	PASS
C1orf162	1	111473792	111478512	0.079255572	PASS
C1orf167	1	11761787	11789585	0.364796772	PASS
C1orf174	1	3889125	3900293	-0.358281697	PASS
C1orf185	1	51102221	51148086	-0.736943052	PASS
C1orf189	1	154199372	154206333	0.088103245	PASS
C1orf194	1	109105951	109113857	0.079255572	PASS
C1orf198	1	230837119	230869589	-0.204996646	suppress_segment_too_large
C1orf21	1	184387058	184629020	0.088103245	PASS
C1orf210	1	43281883	43285617	-0.736943052	PASS
C1orf216	1	35713875	35719472	0.048749694	PASS
C1orf226	1	162366908	162386818	0.088103245	PASS
C1orf232	1	26164161	26168581	0.048749694	PASS
C1orf35	1	228100726	228105411	-0.204996646	suppress_segment_too_large
C1orf43	1	154206696	154220637	0.088103245	PASS
C1orf50	1	42767269	42779488	-0.736943052	PASS
C1orf52	1	85249953	85259672	0.587598296	PASS
C1orf53	1	197902647	197907367	0.088103245	PASS
C1orf54	1	150268200	150280916	0.079255572	PASS
C1orf56	1	151047740	151051986	0.079255572	PASS
C1orf61	1	156404250	156430701	0.088103245	PASS
C1orf68	1	152719522	152720470	0.088103245	PASS
C1orf74	1	209779208	209784559	-0.204996646	suppress_segment_too_large
C1orf87	1	59987269	60073770	-0.736943052	PASS
C1orf94	1	34166883	34219131	0.048749694	PASS
C2	6	31897785	31945672	0.028532667	PASS
C20orf141	20	2814987	2815833	-0.172056771	suppress_segment_too_large
C20orf144	20	33662284	33665619	-0.172056771	suppress_segment_too_large
C20orf173	20	35523186	35529652	-0.172056771	suppress_segment_too_large
C20orf194	20	3249305	3407625	-0.172056771	suppress_segment_too_large

C20orf202	20	1203454	1208274	-0.172056771	suppress_segment_too_large
C20orf203	20	32631652	32673941	-0.172056771	suppress_segment_too_large
C20orf204	20	64034344	64039962	-0.172056771	suppress_segment_too_large
C20orf27	20	3753508	3768387	-0.172056771	suppress_segment_too_large
C20orf85	20	58150904	58161150	-0.172056771	suppress_segment_too_large
C20orf96	20	270863	290778	-0.172056771	suppress_segment_too_large
C21orf58	21	46300181	46323875	0.209983559	PASS
C21orf62	21	32793564	32813743	0.209983559	PASS
C21orf91	21	17788967	17819386	0.758930684	suppress_segment_too_large
C22orf15	22	23763021	23765861	-0.740245994	PASS
C22orf23	22	37943050	37953669	-0.740245994	PASS
C22orf31	22	29058672	29061844	-0.740245994	PASS
C22orf39	22	19351368	19448232	-0.740245994	PASS
C22orf42	22	32149006	32159322	-0.740245994	PASS
C22orf46	22	41688939	41698136	-0.740245994	PASS
C2CD2	21	41885112	41953890	0.209983559	PASS
C2CD2L	11	119102198	119118544	-0.431650509	PASS
C2CD3	11	74012714	74171210	0.064535884	PASS
C2CD4A	15	62066977	62070917	-0.759380635	PASS
C2CD4B	15	62163535	62165283	-0.759380635	PASS
C2CD4C	19	405438	409170	-0.071973357	PASS
C2CD4D	1	151837819	151840557	0.079255572	PASS
C2CD5	12	22448583	22544546	0.49032213	suppress_segment_too_large
C2CD6	2	201487425	201619178	0.011001208	PASS
C2orf15	2	99141485	99151487	0.064122364	PASS
C2orf16	2	27537386	27582721	0.034263343	PASS
C2orf40	2	106063246	106078159	-0.439572519	PASS
C2orf42	2	70149880	70248615	-0.46122572	PASS
C2orf49	2	105337359	105349211	-0.439572519	PASS
C2orf50	2	11133053	11146790	0.034263343	PASS
C2orf66	2	196805002	196810276	0.011001208	PASS
C2orf68	2	85606654	85612066	0.064122364	PASS
C2orf69	2	199911256	199955935	0.011001208	PASS
C2orf70	2	26562582	26579532	0.034263343	PASS
C2orf72	2	231037490	231049719	0.011001208	PASS
C2orf73	2	54330034	54383742	0.034263343	PASS
C2orf74	2	61145068	61164829	-0.46122572	PASS
C2orf76	2	119302225	119366828	-0.359440172	PASS
C2orf78	2	73784189	73817147	-0.46122572	PASS
C2orf80	2	208165343	208190073	0.011001208	PASS
C2orf81	2	74414176	74421591	-0.46122572	PASS
C2orf83	2	227610090	227648606	0.011001208	PASS
C2orf88	2	189879609	190203484	0.011001208	PASS
C2orf91	2	41935368	41956806	0.034263343	PASS
C3	19	6677704	6730562	-0.071973357	PASS
C3AR1	12	8058302	8066471	-0.015029783	PASS
C3orf14	3	62318973	62336213	-0.727808231	PASS
C3orf18	3	50558025	50571027	-0.727808231	PASS
C3orf20	3	14675099	14773034	0.06149513	PASS
C3orf22	3	126526999	126558965	0.06434429	PASS
C3orf30	3	119146150	119160042	0.06434429	PASS
C3orf33	3	155762617	155806351	0.02267528	PASS
C3orf38	3	88149743	88168729	0.22470242	PASS
C3orf49	3	63819362	63848636	-0.727808231	PASS

C3orf52	3	112086335	112131004	0.06434429	PASS
C3orf56	3	127193131	127198185	0.06434429	PASS
C3orf58	3	143971798	144048719	0.02267528	PASS
C3orf62	3	49268602	49277909	-0.727808231	PASS
C3orf67	3	58717365	59050084	-0.727808231	PASS
C3orf70	3	185078050	185153014	0.02267528	PASS
C3orf80	3	160225496	160228213	0.02267528	PASS
C3orf84	3	49177632	49191858	-0.727808231	PASS
C3orf85	3	109118252	109150514	0.22470242	PASS
C4A	6	31982024	32002681	0.028532667	PASS
C4B	6	32014795	32035418	0.028532667	PASS
C4BPA	1	207104262	207144972	-0.204996646	suppress_segment_too_large
C4BPB	1	207088842	207099993	-0.204996646	suppress_segment_too_large
C4orf17	4	99511004	99542303	-0.677982248	PASS
C4orf19	4	37453941	37623495	-0.753159364	PASS
C4orf3	4	119296419	119304445	-0.754119944	PASS
C4orf33	4	129093317	129116640	0.142431244	suppress_segment_too_large
C4orf36	4	86876205	86892422	-0.677982248	PASS
C4orf45	4	158893134	159038760	0.142431244	suppress_segment_too_large
C4orf46	4	158666679	158672255	0.142431244	suppress_segment_too_large
C4orf47	4	185426249	185449826	0.275137421	PASS
C4orf48	4	2041993	2043970	-0.358623662	PASS
C4orf50	4	5897373	6200555	-0.358623662	PASS
C4orf51	4	145680115	145771032	0.142431244	suppress_segment_too_large
C4orf54	4	99636529	99654648	-0.677982248	PASS
C5	9	120952335	121050276	0.073960965	PASS
C5AR1	19	47290023	47322066	0.002743503	PASS
C5AR2	19	47332147	47347327	0.002743503	PASS
C5orf15	5	133955502	133968787	-0.393084436	PASS
C5orf22	5	31532266	31555058	0.073527871	PASS
C5orf24	5	134845680	134859737	-0.393084436	PASS
C5orf30	5	103258702	103278660	-0.393084436	PASS
C5orf34	5	43486701	43515145	-0.284712224	PASS
C5orf38	5	2752131	2755397	0.073527871	PASS
C5orf46	5	147880726	147906538	-0.393084436	PASS
C5orf47	5	173973779	174006140	0.165341871	suppress_segment_too_large
C5orf49	5	7830378	7851490	0.073527871	PASS
C5orf51	5	41904188	41921636	-0.284712224	PASS
C5orf52	5	157671553	157680143	0.165341871	suppress_segment_too_large
C5orf58	5	170232447	170252575	0.165341871	suppress_segment_too_large
C5orf60	5	179641544	179645046	0.165341871	suppress_segment_too_large
C5orf63	5	127042558	127073492	-0.393084436	PASS
C5orf67	5	56511567	56606232	-0.284712224	PASS
C6	5	41142234	41261438	-0.284712224	PASS
C6orf10	6	32288526	32371912	0.028532667	PASS
C6orf106	6	34587288	34696859	0.028532667	PASS
C6orf118	6	165279664	165309607	0.033894706	PASS
C6orf120	6	169702190	169704856	0.033894706	PASS
C6orf132	6	42101118	42142619	0.028532667	PASS
C6orf136	6	30647039	30653210	0.069043418	PASS
C6orf141	6	49550646	49561907	0.239805577	suppress_segment_too_large
C6orf15	6	31111223	31112559	0.069043418	PASS
C6orf163	6	87344849	87365463	-0.355603029	PASS
C6orf201	6	4079206	4130951	0.069043418	PASS

C6orf203	6	107028213	107051342	-0.355603029	PASS
C6orf222	6	36315757	36336885	0.028532667	PASS
C6orf223	6	44000580	44005958	0.028532667	PASS
C6orf226	6	42890265	42890816	0.028532667	PASS
C6orf47	6	31658298	31660772	0.028532667	PASS
C6orf48	6	31834608	31839766	0.028532667	PASS
C6orf52	6	10671418	10694797	0.069043418	PASS
C6orf58	6	127519455	127591817	-0.304168115	PASS
C6orf62	6	24704861	24720836	0.069043418	PASS
C6orf89	6	36871870	36928964	0.028532667	PASS
C7	5	40909252	40982939	-0.284712224	PASS
C7orf25	7	42908726	42912305	-0.72421718	PASS
C7orf26	7	6590017	6608726	-0.72421718	PASS
C7orf31	7	25134697	25180356	-0.72421718	PASS
C7orf33	7	148590565	148615860	-0.712149877	PASS
C7orf43	7	100154420	100158715	-0.710463272	PASS
C7orf50	7	996986	1138260	-0.72421718	PASS
C7orf55-LI	7	139341360	139422599	-0.712149877	PASS
C7orf57	7	48035511	48061304	-0.72421718	PASS
C7orf61	7	100456615	100464271	-0.710463272	PASS
C7orf77	7	124777292	124790810	-0.712149877	PASS
C8A	1	56854806	56918221	-0.736943052	PASS
C8B	1	56929210	56966140	-0.736943052	PASS
C8G	9	136945185	136946975	0.073960965	PASS
C8orf33	8	145052378	145066685	0.699132336	PASS
C8orf34	8	68330722	68819022	0.182873287	suppress_segment_too_large
C8orf37	8	95244919	95269201	0.355469066	suppress_segment_too_large
C8orf44	8	66667615	66685564	0.182873287	suppress_segment_too_large
C8orf48	8	13566843	13568287	-0.311940419	PASS
C8orf58	8	22599601	22604150	-0.311940419	PASS
C8orf59	8	85214076	85220421	0.617295349	suppress_segment_too_large
C8orf74	8	10672637	10700593	-0.311940419	PASS
C8orf76	8	123219957	123241398	0.493344802	suppress_segment_too_large
C8orf82	8	144525733	144529132	0.699132336	PASS
C8orf86	8	38510834	38560939	0.182873287	suppress_segment_too_large
C8orf88	8	90958637	90985257	0.617295349	suppress_segment_too_large
C8orf89	8	73241329	73259502	0.182873287	suppress_segment_too_large
C9	5	39284262	39424868	0.073527871	PASS
C9orf116	9	135495181	135501734	0.073960965	PASS
C9orf129	9	93318199	93346414	0.073960965	PASS
C9orf131	9	35041095	35045991	0.073960965	PASS
C9orf135	9	69820793	69906232	0.073960965	PASS
C9orf152	9	110190048	110208189	0.073960965	PASS
C9orf153	9	86220265	86259657	0.073960965	PASS
C9orf16	9	128160260	128163928	0.073960965	PASS
C9orf24	9	34379019	34397832	0.073960965	PASS
C9orf3	9	94726701	95087218	0.073960965	PASS
C9orf40	9	74946581	74952886	0.073960965	PASS
C9orf43	9	113410054	113429684	0.073960965	PASS
C9orf50	9	129612225	129620776	0.073960965	PASS
C9orf57	9	72051376	72072721	0.073960965	PASS
C9orf64	9	83938311	83956986	0.073960965	PASS
C9orf66	9	212824	215893	0.073960965	PASS
C9orf72	9	27546545	27573866	0.073960965	PASS

C9orf78	9	129827290	129835863	0.073960965	PASS
C9orf84	9	111686173	111795008	0.073960965	PASS
C9orf85	9	71911510	71986054	0.073960965	PASS
C9orf92	9	16203935	16410990	0.073960965	PASS
CA1	8	85327608	85379014	0.617295349	suppress_segment_too_large
CA10	17	51630313	52160017	0.051798665	PASS
CA11	19	48637942	48646312	0.002743503	PASS
CA12	15	63321378	63382161	-0.759380635	PASS
CA13	8	85220587	85284073	0.617295349	suppress_segment_too_large
CA14	1	150257159	150265078	0.079255572	PASS
CA2	8	85463852	85481493	0.617295349	suppress_segment_too_large
CA3	8	85373436	85449040	0.617295349	suppress_segment_too_large
CA4	17	60149936	60170899	0.051798665	PASS
CA5A	16	87881546	87936580	-0.423061015	PASS
CA5B	23	15688830	15788409	0.158844052	PASS
CA6	1	8945867	8975092	0.364796772	PASS
CA7	16	66844379	66854153	-0.423061015	PASS
CA8	8	60187347	60281412	0.182873287	suppress_segment_too_large
CA9	9	35673856	35681159	0.073960965	PASS
CAAP1	9	26840685	26892804	0.073960965	PASS
CAB39	2	230712845	230821075	0.011001208	PASS
CAB39L	13	49308650	49444126	-0.384313056	PASS
CABCOC(	10	61662961	61766766	0.032351597	PASS
CABIN1	22	24011192	24178628	-0.740245994	PASS
CABLES1	18	23134564	23260467	-0.330515409	PASS
CABLES2	20	62388632	62407285	-0.172056771	suppress_segment_too_large
CABP1	12	120640552	120667324	0.028722739	PASS
CABP2	11	67518912	67524517	0.064535884	PASS
CABP4	11	67452406	67460313	0.064535884	PASS
CABP5	19	48029953	48044053	0.002743503	PASS
CABP7	22	29720084	29731839	-0.740245994	PASS
CABS1	4	70334966	70337116	0.115781418	suppress_segment_too_large
CABYR	18	24138956	24161603	-0.330515409	PASS
CACFD1	9	133459965	133470848	0.073960965	PASS
CACHD1	1	64470792	64693058	0.052232535	PASS
CACNA1A	19	13206442	13633025	-0.069222905	PASS
CACNA1E	9	137877789	138124624	0.073960965	PASS
CACNA1C	12	1970786	2697950	-0.015029783	PASS
CACNA1D	3	53328963	53813733	-0.727808231	PASS
CACNA1E	1	181317690	181808084	0.088103245	PASS
CACNA1F	23	49205063	49233371	0.158844052	PASS
CACNA1G	17	50561068	50627474	0.051798665	PASS
CACNA1H	16	1153121	1221772	0.053595371	PASS
CACNA1I	22	39570753	39689737	-0.740245994	PASS
CACNA1S	1	201039512	201112566	-0.204996646	suppress_segment_too_large
CACNA2D	7	81946444	82443798	-0.701511252	PASS
CACNA2D	3	50362799	50504244	-0.727808231	PASS
CACNA2D	3	54122547	55074557	-0.727808231	PASS
CACNA2D	12	1791957	1918836	-0.015029783	PASS
CACNB1	17	39173456	39197703	0.041294512	PASS
CACNB2	10	18140677	18543557	0.075711544	PASS
CACNB3	12	48813794	48828941	-0.743220499	PASS
CACNB4	2	151832768	152099475	-0.30549516	PASS
CACNG1	17	67044590	67056797	0.051798665	PASS

CACNG2	22	36563921	36703558	-0.740245994	PASS
CACNG3	16	24255553	24362801	0.053595371	PASS
CACNG4	17	66964910	67033398	0.051798665	PASS
CACNG5	17	66835117	66885486	0.051798665	PASS
CACNG6	19	53992288	54012669	0.142581352	PASS
CACNG7	19	53909335	53943941	0.142581352	PASS
CACNG8	19	53963040	53990215	0.142581352	PASS
CACTIN	19	3610641	3626815	-0.071973357	PASS
CACUL1	10	118674167	118755249	0.073090211	PASS
CACYBP	1	174999163	175011715	0.088103245	PASS
CAD	2	27217390	27243943	0.034263343	PASS
CADM1	11	115169218	115504957	-0.431650509	PASS
CADM2	3	84958981	86074429	0.22470242	PASS
CADM3	1	159171609	159203313	0.088103245	PASS
CADM4	19	43622368	43639839	0.048917043	PASS
CADPS	3	62398346	62875389	-0.727808231	PASS
CADPS2	7	122318425	122886759	-0.712149877	PASS
CAGE1	6	7326656	7389743	0.069043418	PASS
CALB1	8	90058608	90095475	0.617295349	suppress_segment_too_large
CALB2	16	71358713	71390438	-0.423061015	PASS
CALCA	11	14966668	14972354	-0.39835217	PASS
CALCB	11	14904997	15082342	-0.39835217	PASS
CALCOCC	12	53708517	53727745	-0.743220499	PASS
CALCOCC	17	48830988	48866522	0.051798665	PASS
CALCR	7	93424487	93574730	-0.710463272	PASS
CALCRL	2	187343129	187448460	-0.030005025	PASS
CALD1	7	134744252	134970728	-0.712149877	PASS
CALHM1	10	103453387	103458888	-0.414937136	PASS
CALHM2	10	103446786	103452402	-0.414937136	PASS
CALHM3	10	103472804	103479240	-0.414937136	PASS
CALHM4	6	116529013	116558868	-0.355603029	PASS
CALHM5	6	116511646	116524792	-0.355603029	PASS
CALHM6	6	116461370	116463779	-0.355603029	PASS
CALM1	14	90396502	90408261	-0.155273506	suppress_segment_too_large
CALM2	2	47160082	47176601	0.034263343	PASS
CALM3	19	46601074	46610793	0.002743503	PASS
CALML3	10	5524009	5526771	0.075711544	PASS
CALML4	15	68190705	68206110	-0.759380635	PASS
CALML5	10	5498697	5499555	0.075711544	PASS
CALML6	1	1914827	1917296	-0.358281697	PASS
CALN1	7	71779491	72447151	-0.701511252	PASS
CALR	19	12938578	12944489	-0.069222905	PASS
CALR3	19	16479057	16496192	-0.069222905	PASS
CALU	7	128739292	128771807	-0.712149877	PASS
CALY	10	133324072	133336935	0.073090211	PASS
CAMK1	3	9757342	9769992	0.06149513	PASS
CAMK1D	10	12349482	12835545	0.075711544	PASS
CAMK1G	1	209583717	209613938	-0.204996646	suppress_segment_too_large
CAMK2A	5	150219491	150290291	-0.393084436	PASS
CAMK2B	7	44217150	44334577	-0.72421718	PASS
CAMK2D	4	113451032	113761927	-0.677982248	PASS
CAMK2G	10	73812501	73874591	0.032351597	PASS
CAMK2N1	1	20482391	20486220	0.048749694	PASS
CAMK2N2	3	184259213	184261463	0.02267528	PASS

CAMK4	5	111223653	111494886	-0.393084436	PASS
CAMKK1	17	3860315	3894891	0.06854245	PASS
CAMKK2	12	121237691	121298308	0.028722739	PASS
CAMKMT	2	44361950	44772592	0.034263343	PASS
CAMKV	3	49857988	49870222	-0.727808231	PASS
CAMLG	5	134738501	134752160	-0.393084436	PASS
CAMP	3	48223347	48225491	-0.727808231	PASS
CAMSAP1	9	135808487	135907228	0.073960965	PASS
CAMSAP2	1	200739558	200860704	-0.204996646	suppress_segment_too_large
CAMSAP3	19	7595902	7618304	-0.071973357	PASS
CAMTA1	1	6785324	7769706	0.364796772	PASS
CAMTA2	17	4967992	4987652	0.06854245	PASS
CAND1	12	67269281	67319951	-0.743220499	PASS
CAND2	3	12796472	12871916	0.06149513	PASS
CANT1	17	78991717	79009867	0.051798665	PASS
CANX	5	179678628	179730925	0.165341871	suppress_segment_too_large
CAP1	1	40040233	40072649	0.048749694	PASS
CAP2	6	17393216	17557792	0.069043418	PASS
CAPG	2	85394748	85418432	0.064122364	PASS
CAPN1	11	65180566	65212006	0.064535884	PASS
CAPN10	2	240586716	240617705	0.011001208	PASS
CAPN11	6	44158811	44184402	0.028532667	PASS
CAPN12	19	38730187	38769904	0.048917043	PASS
CAPN13	2	30722771	30820542	0.034263343	PASS
CAPN14	2	31173056	31233858	0.034263343	PASS
CAPN15	16	527717	554636	0.053595371	PASS
CAPN2	1	223701593	223776018	-0.204996646	suppress_segment_too_large
CAPN3	15	42359500	42412318	-0.423772929	PASS
CAPN5	11	77066941	77126155	0.064535884	PASS
CAPN6	23	111245103	111270523	0.158844052	PASS
CAPN7	3	15206152	15252918	0.06149513	PASS
CAPN8	1	223538007	223665734	-0.204996646	suppress_segment_too_large
CAPN9	1	230747384	230802003	-0.204996646	suppress_segment_too_large
CAPNS1	19	36139575	36150353	0.044838622	PASS
CAPNS2	16	55566672	55567687	-0.423061015	PASS
CAPRIN1	11	34051683	34101156	-0.359426047	PASS
CAPRIN2	12	30709552	30754951	0.49032213	suppress_segment_too_large
CAPS	19	5911707	5915877	-0.071973357	PASS
CAPS2	12	75275979	75390928	0.271127429	suppress_segment_too_large
CAPSL	5	35904295	35938779	0.073527871	PASS
CAPZA1	1	112619173	112671619	0.079255572	PASS
CAPZA2	7	116811070	116922049	-0.712149877	PASS
CAPZA3	12	18738101	18739187	0.49032213	suppress_segment_too_large
CAPZB	1	19338776	19485539	0.048749694	PASS
CARD10	22	37490362	37519542	-0.740245994	PASS
CARD11	7	2906141	3043945	-0.72421718	PASS
CARD14	17	80169992	80209331	0.051798665	PASS
CARD16	11	105041326	105101431	0.32805343	suppress_segment_too_large
CARD17	11	105092469	105101431	0.32805343	suppress_segment_too_large
CARD18	11	105137721	105531697	0.32805343	suppress_segment_too_large
CARD19	9	93096218	93113283	0.073960965	PASS
CARD6	5	40841184	40860175	-0.284712224	PASS
CARD8	19	48180770	48255946	0.002743503	PASS
CARD9	9	136361903	136373681	0.073960965	PASS

CARF	2	202912214	202987063	0.011001208	PASS
CARHSP1	16	8852942	8869012	0.053595371	PASS
CARM1	19	10871513	10923070	-0.107594294	PASS
CARMIL1	6	25279078	25620530	0.069043418	PASS
CARMIL2	16	67644919	67657569	-0.423061015	PASS
CARMIL3	14	24052000	24069728	0.053252507	PASS
CARNMT	9	74981020	75028423	0.073960965	PASS
CARNS1	11	67414968	67425607	0.064535884	PASS
CARS	11	3000922	3057613	-0.39835217	PASS
CARS2	13	110641412	110713603	-0.426822582	PASS
CARTPT	5	71719163	71721048	-0.393084436	PASS
CASC1	12	25108420	25195162	0.49032213	suppress_segment_too_large
CASC10	10	21492658	21497262	0.075711544	PASS
CASC3	17	40140318	40172183	0.041294512	PASS
CASC4	15	44288729	44415758	-0.423772929	PASS
CASD1	7	94509219	94557019	-0.710463272	PASS
CASK	23	41514934	41923645	0.158844052	PASS
CASKIN1	16	2177180	2196525	0.053595371	PASS
CASKIN2	17	75500261	75515583	0.051798665	PASS
CASP1	11	105025443	105035250	0.32805343	suppress_segment_too_large
CASP10	2	201182881	201229406	0.011001208	PASS
CASP14	19	15049384	15058293	-0.069222905	PASS
CASP2	7	143288215	143307696	-0.712149877	PASS
CASP3	4	184627696	184649509	-0.453876349	PASS
CASP4	11	104942866	104969436	0.32805343	suppress_segment_too_large
CASP5	11	104994235	105023168	0.32805343	suppress_segment_too_large
CASP6	4	109688622	109703583	-0.677982248	PASS
CASP7	10	113679162	113730907	0.073090211	PASS
CASP8	2	201233443	201287711	0.011001208	PASS
CASP8AP2	6	89829894	89874436	-0.355603029	PASS
CASP9	1	15490832	15526534	0.048749694	PASS
CASQ1	1	160190556	160201886	0.088103245	PASS
CASQ2	1	115700007	115768781	0.079255572	PASS
CASR	3	122183683	122291629	0.06434429	PASS
CASS4	20	56412112	56460387	-0.172056771	suppress_segment_too_large
CAST	5	96525267	96779595	-0.393084436	PASS
CASTOR1	22	30285117	30289627	-0.740245994	PASS
CASTOR2	7	74964818	75024798	-0.701511252	PASS
CASTOR3	7	100200653	100272232	-0.710463272	PASS
CASZ1	1	10636604	10796650	0.364796772	PASS
CAT	11	34438925	34472062	-0.359426047	PASS
CATIP	2	218356856	218368099	0.011001208	PASS
CATSPER	11	66016752	66026517	0.064535884	PASS
CATSPER	15	43628503	43668118	-0.423772929	PASS
CATSPER	5	134967906	135011707	-0.393084436	PASS
CATSPER	1	26190561	26202968	0.048749694	PASS
CATSPER	14	91580696	91780707	-0.155273506	suppress_segment_too_large
CATSPER	19	5720677	5778734	-0.071973357	PASS
CATSPER	1	244454377	244641177	-0.145670469	suppress_likely_unfocal_large_gain
CATSPER	19	38335775	38370943	0.048917043	PASS
CATSPER	11	64300391	64304770	0.064535884	PASS
CAV1	7	116524785	116561184	-0.712149877	PASS
CAV2	7	116287380	116508541	-0.712149877	PASS
CAV3	3	8733800	8841808	0.06149513	PASS

CAVIN1	17	42402452	42423517	0.041294512	PASS
CAVIN2	2	191834302	191847255	0.011001208	PASS
CAVIN3	11	6318946	6320647	-0.39835217	PASS
CAVIN4	9	100578079	100587906	0.073960965	PASS
CBARP	19	1228287	1238027	-0.071973357	PASS
CBFA2T2	20	33490075	33650036	-0.172056771	suppress_segment_too_large
CBFA2T3	16	88874858	88977204	-0.423061015	PASS
CBFB	16	67029116	67101058	-0.423061015	PASS
CBL	11	119206276	119313926	-0.431650509	PASS
CBLB	3	105655461	105869552	0.22470242	PASS
CBLC	19	44777869	44800652	0.002743503	PASS
CBLL1	7	107743697	107761667	-0.712149877	PASS
CBLL2	23	22272943	22274461	0.158844052	PASS
CBLN1	16	49277917	49281831	0.411512417	PASS
CBLN2	18	72536680	72638521	-0.330515409	PASS
CBLN3	14	24426532	24430954	0.053252507	PASS
CBLN4	20	55997440	56005472	-0.172056771	suppress_segment_too_large
CBR1	21	36069941	36073166	0.209983559	PASS
CBR3	21	36134912	36146566	0.209983559	PASS
CBR4	4	168863770	169010275	0.142431244	suppress_segment_too_large
CBS	21	43053191	43076943	0.209983559	PASS
CBSL	21	6444869	6468040	0.220071762	PASS
CBWD1	9	121038	179147	0.073960965	PASS
CBWD2	2	113437691	113496189	0.040971718	PASS
CBWD3	9	68232003	68300015	0.073960965	PASS
CBWD5	9	65668805	65734041	0.073960965	PASS
CBWD6	9	41131306	41199261	0.073960965	PASS
CBX1	17	48070052	48101521	0.051798665	PASS
CBX2	17	79778132	79787983	0.051798665	PASS
CBX3	7	26201162	26213356	-0.72421718	PASS
CBX4	17	79833156	79839429	0.051798665	PASS
CBX5	12	54230940	54280133	-0.743220499	PASS
CBX6	22	38861450	38872314	-0.740245994	PASS
CBX7	22	39120167	39152674	-0.740245994	PASS
CBX8	17	79792132	79801683	0.051798665	PASS
CBY1	22	38656636	38673854	-0.740245994	PASS
CBY3	5	179678583	179680974	0.165341871	suppress_segment_too_large
CC2D1A	19	13906201	13930879	-0.069222905	PASS
CC2D1B	1	52345723	52366193	-0.736943052	PASS
CC2D2A	4	15469865	15601557	-0.358623662	PASS
CC2D2B	10	95907603	96032684	-0.414937136	PASS
CCAR1	10	68721012	68792377	0.032351597	PASS
CCAR2	8	22604632	22621514	-0.311940419	PASS
CCBE1	18	59430939	59697662	-0.330515409	PASS
CCDC102A	16	57512178	57536599	-0.423061015	PASS
CCDC102B	18	68715209	69055189	-0.330515409	PASS
CCDC103	17	44899142	44905390	0.051798665	PASS
CCDC105	19	15010744	15023269	-0.069222905	PASS
CCDC106	19	55641062	55653161	0.142581352	PASS
CCDC107	9	35658290	35661511	0.073960965	PASS
CCDC110	4	185445182	185471759	0.275137421	PASS
CCDC112	5	115267188	115296831	-0.393084436	PASS
CCDC113	16	58231157	58283836	-0.423061015	PASS
CCDC114	19	48296457	48321894	0.002743503	PASS

CCDC115	2	130338241	130342349	-0.359440172	PASS
CCDC116	22	21632716	21637327	-0.740245994	PASS
CCDC117	22	28772674	28789301	-0.740245994	PASS
CCDC12	3	46921726	46982010	-0.727808231	PASS
CCDC120	23	49053572	49069857	0.158844052	PASS
CCDC121	2	27625639	27629012	0.034263343	PASS
CCDC122	13	43823909	43879727	-0.398748891	PASS
CCDC124	19	17933016	17943991	-0.069222905	PASS
CCDC125	5	69280175	69332809	-0.393084436	PASS
CCDC126	7	23597379	23644708	-0.72421718	PASS
CCDC127	5	196871	218215	0.073527871	PASS
CCDC13	3	42708269	42773253	-0.727808231	PASS
CCDC130	19	13731760	13763296	-0.069222905	PASS
CCDC134	22	41800679	41826299	-0.740245994	PASS
CCDC136	7	128790757	128822132	-0.712149877	PASS
CCDC137	17	81666364	81673904	0.051798665	PASS
CCDC138	2	108786757	108885477	0.040971718	PASS
CCDC14	3	123897305	123961408	0.06434429	PASS
CCDC140	2	222298147	222305217	0.011001208	PASS
CCDC141	2	178829757	179050086	0.162734012	PASS
CCDC142	2	74471986	74483408	-0.46122572	PASS
CCDC144A	17	16689537	16777881	0.06854245	PASS
CCDC144N	17	20836447	20896140	0.06854245	PASS
CCDC146	7	77122434	77329533	-0.701511252	PASS
CCDC148	2	158171081	158456753	0.054749241	PASS
CCDC149	4	24806117	24980204	-0.358623662	PASS
CCDC15	11	124954121	125041489	-0.431650509	PASS
CCDC150	2	196639554	196763490	0.011001208	PASS
CCDC151	19	11420604	11435782	-0.107594294	PASS
CCDC152	5	42756801	42802360	-0.284712224	PASS
CCDC153	11	119189638	119196769	-0.431650509	PASS
CCDC154	16	1434383	1444556	0.053595371	PASS
CCDC155	19	49388218	49417994	0.002743503	PASS
CCDC157	22	30356635	30378658	-0.740245994	PASS
CCDC158	4	76312997	76421868	-0.677982248	PASS
CCDC159	19	11344684	11354944	-0.107594294	PASS
CCDC160	23	134237047	134246207	0.158844052	PASS
CCDC163	1	45493866	45500079	-0.736943052	PASS
CCDC166	8	143706694	143708109	0.699132336	PASS
CCDC167	6	37482920	37499922	0.028532667	PASS
CCDC168	13	102729369	102759070	1.049215493	PASS
CCDC169	13	36222008	36297840	-0.398748891	PASS
CCDC169-	13	36168794	36297842	-0.398748891	PASS
CCDC17	1	45620044	45624057	-0.736943052	PASS
CCDC170	6	151494030	151621193	0.033894706	PASS
CCDC171	9	15553086	16061663	0.073960965	PASS
CCDC172	10	116324428	116380029	0.073090211	PASS
CCDC173	2	169645425	169694433	0.033541467	PASS
CCDC174	3	14651746	14672659	0.06149513	PASS
CCDC175	14	59504539	59576831	0.053252507	PASS
CCDC177	14	69569816	69574837	0.053252507	PASS
CCDC178	18	32937402	33441101	-0.330515409	PASS
CCDC179	11	22846931	22860426	-2.208422516	PASS
CCDC18	1	93179919	93278730	0.079255572	PASS

CCDC180	9	97307304	97378524	0.073960965	PASS
CCDC181	1	169394870	169460669	0.088103245	PASS
CCDC182	17	57744481	57745312	0.051798665	PASS
CCDC183	9	136796350	136807741	0.073960965	PASS
CCDC184	12	48183584	48185926	-0.743220499	PASS
CCDC185	1	223393417	223395470	-0.204996646	suppress_segment_too_large
CCDC186	10	114120862	114174232	0.073090211	PASS
CCDC187	9	136249971	136306901	0.073960965	PASS
CCDC188	22	20148427	20151065	-0.740245994	PASS
CCDC189	16	30757423	30762710	0.053595371	PASS
CCDC190	1	162824458	162868815	0.088103245	PASS
CCDC191	3	113964137	114056613	0.06434429	PASS
CCDC192	5	127703389	127941634	-0.393084436	PASS
CCDC196	14	66411704	66498677	0.053252507	PASS
CCDC198	14	57469301	57493867	0.053252507	PASS
CCDC200	17	43216941	43305397	0.051798665	PASS
CCDC22	23	49235467	49250526	0.158844052	PASS
CCDC24	1	43991359	43996528	-0.736943052	PASS
CCDC25	8	27733311	27772653	-0.311940419	PASS
CCDC27	1	3746460	3771645	-0.358281697	PASS
CCDC28A	6	138773509	138793319	0.033894706	PASS
CCDC28B	1	32200386	32205387	0.048749694	PASS
CCDC3	10	12896625	13099652	0.075711544	PASS
CCDC30	1	42463330	42654664	-0.736943052	PASS
CCDC32	15	40528683	40565057	-0.423772929	PASS
CCDC33	15	74202705	74336472	-0.759380635	PASS
CCDC34	11	27330827	27363868	-0.359426047	PASS
CCDC36	3	49198428	49258104	-0.727808231	PASS
CCDC38	12	95867048	95942974	0.028722739	PASS
CCDC39	3	180602858	180870933	0.02267528	PASS
CCDC40	17	80036632	80100613	0.051798665	PASS
CCDC42	17	8729934	8745219	0.06854245	PASS
CCDC43	17	44673069	44689779	0.051798665	PASS
CCDC47	17	63745250	63776351	0.051798665	PASS
CCDC50	3	191329077	191398670	0.02267528	PASS
CCDC51	3	48432164	48440456	-0.727808231	PASS
CCDC54	3	107377194	107378637	0.22470242	PASS
CCDC57	17	82101460	82212830	0.051798665	PASS
CCDC58	3	122359591	122383231	0.06434429	PASS
CCDC59	12	82223681	82358805	0.271127429	suppress_segment_too_large
CCDC6	10	59788763	59906656	0.032351597	PASS
CCDC60	12	119334712	119541047	0.028722739	PASS
CCDC61	19	45995461	46021318	0.002743503	PASS
CCDC62	12	122774327	122827528	0.028722739	PASS
CCDC63	12	110846769	110907535	0.028722739	PASS
CCDC65	12	48904110	48931840	-0.743220499	PASS
CCDC66	3	56557161	56621818	-0.727808231	PASS
CCDC68	18	54901509	54959508	-0.330515409	PASS
CCDC69	5	151181052	151224145	-0.393084436	PASS
CCDC7	10	32446140	32882874	0.075711544	PASS
CCDC70	13	51861981	51866232	-0.384313056	PASS
CCDC71	3	49162535	49166321	-0.727808231	PASS
CCDC71L	7	106656765	106660996	-0.712149877	PASS
CCDC73	11	32602246	32794658	-0.359426047	PASS

CCDC74A	2	131527675	131533666	-0.359440172	PASS
CCDC74B	2	130139287	130145134	-0.359440172	PASS
CCDC77	12	389273	442645	-0.015029783	PASS
CCDC78	16	722582	726954	0.053595371	PASS
CCDC8	19	46410329	46413662	0.002743503	PASS
CCDC80	3	112596794	112649530	0.06434429	PASS
CCDC81	11	86374736	86423109	0.064535884	PASS
CCDC82	11	96352769	96389956	0.32805343	suppress_segment_too_large
CCDC83	11	85855101	85920021	0.064535884	PASS
CCDC84	11	118998142	119015791	-0.431650509	PASS
CCDC85A	2	56184123	56386173	-0.46122572	PASS
CCDC85B	11	65890112	65891635	0.064535884	PASS
CCDC85C	14	99500180	99604026	-0.155273506	suppress_segment_too_large
CCDC86	11	60842071	60851081	0.064535884	PASS
CCDC87	11	66590176	66593083	0.064535884	PASS
CCDC88A	2	55287842	55419895	-0.052193497	PASS
CCDC88B	11	64340223	64357534	0.064535884	PASS
CCDC88C	14	91271323	91417844	-0.155273506	suppress_segment_too_large
CCDC89	11	85684866	85686277	0.064535884	PASS
CCDC9	19	47255980	47273701	0.002743503	PASS
CCDC90B	11	83259097	83286407	0.064535884	PASS
CCDC91	12	28133249	28581511	0.49032213	suppress_segment_too_large
CCDC92	12	123918660	123972831	0.028722739	PASS
CCDC93	2	117915478	118014133	-0.359440172	PASS
CCDC96	4	7040849	7042939	-0.358623662	PASS
CCDC97	19	41310189	41324883	0.048917043	PASS
CCDC9B	15	40331452	40340967	-0.423772929	PASS
CCER1	12	90905622	90955176	0.271127429	suppress_segment_too_large
CCER2	19	38908980	38912158	0.048917043	PASS
CCHCR1	6	31142439	31158238	0.069043418	PASS
CCIN	9	36169394	36171334	0.073960965	PASS
CCK	3	42257825	42266207	-0.727808231	PASS
CCKAR	4	26481400	26490462	-2.804710927	PASS
CCKBR	11	6259736	6272127	-0.39835217	PASS
CCL1	17	34360328	34363231	0.041294512	PASS
CCL11	17	34285668	34288334	0.041294512	PASS
CCL13	17	34356452	34358610	0.041294512	PASS
CCL14	17	35983291	35987004	0.041294512	PASS
CCL15	17	35996440	36002038	0.041294512	PASS
CCL15-CC	17	35983656	36001621	0.041294512	PASS
CCL16	17	35976493	35981496	0.041294512	PASS
CCL17	16	57404767	57416062	-0.423061015	PASS
CCL18	17	36064280	36072032	0.041294512	PASS
CCL19	9	34689567	34691277	0.073960965	PASS
CCL2	17	34255218	34257203	0.041294512	PASS
CCL20	2	227805739	227817564	0.011001208	PASS
CCL21	9	34709005	34710124	0.073960965	PASS
CCL22	16	57358772	57366190	-0.423061015	PASS
CCL23	17	36013056	36017968	0.041294512	PASS
CCL24	7	75811665	75823356	-0.701511252	PASS
CCL25	19	8052767	8062650	-0.071973357	PASS
CCL26	7	75769533	75789896	-0.701511252	PASS
CCL27	9	34661880	34664048	0.073960965	PASS
CCL28	5	43376645	43412391	-0.284712224	PASS

CCL3	17	36088256	36090169	0.041294512	PASS
CCL3L1	17	36194869	36196758	0.041294512	PASS
CCL4	17	36103590	36105621	0.041294512	PASS
CCL4L2	17	36210924	36212878	0.041294512	PASS
CCL5	17	35871491	35880793	0.041294512	PASS
CCL7	17	34270221	34272242	0.041294512	PASS
CCL8	17	34319036	34321402	0.041294512	PASS
CCM2	7	44999475	45076469	-0.72421718	PASS
CCM2L	20	32010450	32032180	-0.172056771	suppress_segment_too_large
CCNA1	13	36431520	36442882	-0.398748891	PASS
CCNA2	4	121816444	121823933	0.142431244	suppress_segment_too_large
CCNB1	5	69167010	69178245	-0.393084436	PASS
CCNB1IP1	14	20311368	20333312	0.053252507	PASS
CCNB2	15	59105078	59125045	-0.759380635	PASS
CCNB3	23	50202713	50351910	0.158844052	PASS
CCNC	6	99542380	99568973	-0.355603029	PASS
CCND1	11	69641087	69654474	0.064535884	PASS
CCND2	12	4273772	4305350	-0.015029783	PASS
CCND3	6	41934933	42050357	0.028532667	PASS
CCNDBP1	15	43185118	43197176	-0.423772929	PASS
CCNE1	19	29811898	29824308	0.044838622	PASS
CCNE2	8	94879770	94896678	0.355469066	suppress_segment_too_large
CCNF	16	2429394	2458854	0.053595371	PASS
CCNG1	5	163437569	163446151	0.165341871	suppress_segment_too_large
CCNG2	4	77157151	77433388	-0.677982248	PASS
CCNH	5	87318416	87413019	-0.393084436	PASS
CCNI	4	77047158	77076005	-0.677982248	PASS
CCNI2	5	132747445	132754403	-0.393084436	PASS
CCNJ	10	96043394	96060870	-0.414937136	PASS
CCNJL	5	160249106	160345396	0.165341871	suppress_segment_too_large
CCNK	14	99481169	99535044	-0.155273506	suppress_segment_too_large
CCNL1	3	157146508	157160760	0.02267528	PASS
CCNL2	1	1385711	1399328	-0.358281697	PASS
CCNO	5	55231152	55233680	-0.284712224	PASS
CCNQ	23	153587919	153600045	0.158844052	PASS
CCNT1	12	48688458	48716998	-0.743220499	PASS
CCNT2	2	134918235	134959342	-0.359440172	PASS
CCNY	10	35247025	35572669	0.075711544	PASS
CCNYL1	2	207711540	207761839	0.011001208	PASS
CCP110	16	19523811	19553408	0.053595371	PASS
CCPG1	15	55340032	55408510	-0.759380635	PASS
CCR1	3	46201709	46208396	-0.727808231	PASS
CCR10	17	42678889	42683917	0.041294512	PASS
CCR2	3	46353734	46360928	-0.727808231	PASS
CCR3	3	46163604	46266706	-0.727808231	PASS
CCR4	3	32951574	32956349	0.06149513	PASS
CCR5	3	46370854	46376206	-0.727808231	PASS
CCR6	6	167111807	167139696	0.033894706	PASS
CCR7	17	40553769	40565472	0.041294512	PASS
CCR8	3	39329706	39333511	-0.727808231	PASS
CCR9	3	45886504	45903177	-0.727808231	PASS
CCRL2	3	46407163	46412997	-0.727808231	PASS
CCS	11	66592821	66606019	0.064535884	PASS
CCSAP	1	229321005	229343294	-0.204996646	suppress_segment_too_large

CCSER1	4	90127535	91601913	-0.677982248	PASS
CCSER2	10	84328558	84518521	0.032351597	PASS
CCT2	12	69585334	69601570	-0.743220499	PASS
CCT3	1	156308968	156367873	0.088103245	PASS
CCT4	2	61868089	61888804	-0.46122572	PASS
CCT5	5	10249921	10266412	0.073527871	PASS
CCT6A	7	56051630	56063989	-0.701511252	PASS
CCT6B	17	34927859	34981078	0.041294512	PASS
CCT7	2	73233420	73253021	-0.46122572	PASS
CCT8	21	29055805	29073797	0.209983559	PASS
CCT8L2	22	16590751	16592810	-0.740245994	PASS
CCZ1	7	5898725	5926550	-0.72421718	PASS
CCZ1B	7	6794134	6826770	-0.72421718	PASS
CD101	1	117001750	117036476	0.079255572	PASS
CD109	6	73695785	73828316	-0.250122709	PASS
CD14	5	140631728	140633701	-0.393084436	PASS
CD151	11	832843	839831	-0.39835217	PASS
CD160	1	145719471	145739288	0.079255572	PASS
CD163	12	7470813	7503893	-0.015029783	PASS
CD163L1	12	7346685	7479897	-0.015029783	PASS
CD164	6	109366514	109382812	-0.355603029	PASS
CD164L2	1	27379176	27383380	0.048749694	PASS
CD177	19	43353659	43363172	0.048917043	PASS
CD180	5	67179613	67196799	-0.393084436	PASS
CD19	16	28931939	28939346	0.053595371	PASS
CD1A	1	158254137	158258269	0.088103245	PASS
CD1B	1	158327951	158331531	0.088103245	PASS
CD1C	1	158289786	158293630	0.088103245	PASS
CD1D	1	158179947	158184896	0.088103245	PASS
CD1E	1	158353696	158357553	0.088103245	PASS
CD2	1	116754385	116769228	0.079255572	PASS
CD200	3	112332347	112362812	0.06434429	PASS
CD200R1	3	112921209	112975122	0.06434429	PASS
CD200R1L	3	112815709	112846856	0.06434429	PASS
CD207	2	70830214	70835822	-0.46122572	PASS
CD209	19	7739994	7747564	-0.071973357	PASS
CD22	19	35319261	35347355	0.044838622	PASS
CD226	18	69831158	69961803	-0.330515409	PASS
CD24	6	106969831	106975627	-0.355603029	PASS
CD244	1	160830160	160862855	0.088103245	PASS
CD247	1	167430640	167518610	0.088103245	PASS
CD248	11	66314487	66317044	0.064535884	PASS
CD27	12	6444867	6451718	-0.015029783	PASS
CD274	9	5450503	5470566	0.073960965	PASS
CD276	15	73683966	73714518	-0.759380635	PASS
CD28	2	203706475	203738912	0.011001208	PASS
CD2AP	6	47477789	47627263	0.239805577	suppress_segment_too_large
CD2BP2	16	30350766	30355361	0.053595371	PASS
CD300A	17	74466399	74484796	0.051798665	PASS
CD300C	17	74541108	74546143	0.051798665	PASS
CD300E	17	74609887	74623738	0.051798665	PASS
CD300LB	17	74521174	74531474	0.051798665	PASS
CD300LD	17	74579365	74592283	0.051798665	PASS
CD300LF	17	74694311	74712978	0.051798665	PASS

CD300LG	17	43847148	43863629	0.051798665	PASS
CD302	2	159768630	159798255	0.054749241	PASS
CD320	19	8302127	8308356	-0.071973357	PASS
CD33	19	51225064	51243860	0.002743503	PASS
CD34	1	207880972	207911402	-0.204996646	suppress_segment_too_large
CD36	7	80369575	80679277	-0.701511252	PASS
CD37	19	49335171	49343335	0.002743503	PASS
CD38	4	15778275	15853230	-0.358623662	PASS
CD3D	11	118338954	118342744	-0.431650509	PASS
CD3E	11	118304545	118316175	-0.431650509	PASS
CD3EAP	19	45406209	45410766	0.002743503	PASS
CD3G	11	118344344	118355161	-0.431650509	PASS
CD4	12	6786858	6820808	-0.015029783	PASS
CD40	20	46118272	46129863	-0.172056771	suppress_segment_too_large
CD40LG	23	136648193	136660390	0.158844052	PASS
CD44	11	35138870	35232402	-0.359426047	PASS
CD46	1	207752057	207795513	-0.204996646	suppress_segment_too_large
CD47	3	108043094	108091862	0.22470242	PASS
CD48	1	160678746	160711851	0.088103245	PASS
CD5	11	61102395	61127852	0.064535884	PASS
CD52	1	26317957	26320523	0.048749694	PASS
CD53	1	110871188	110899928	0.079255572	PASS
CD55	1	207321376	207386804	-0.204996646	suppress_segment_too_large
CD58	1	116514535	116571039	0.079255572	PASS
CD59	11	33703010	33736491	-0.359426047	PASS
CD5L	1	157830914	157898256	0.088103245	PASS
CD6	11	60971680	61020377	0.064535884	PASS
CD63	12	55725323	55729707	-0.743220499	PASS
CD68	17	7579467	7582113	0.06854245	PASS
CD69	12	9752486	9760901	0.505438545	PASS
CD7	17	82314868	82317602	0.051798665	PASS
CD70	19	6583183	6604103	-0.071973357	PASS
CD72	9	35609533	35646810	0.073960965	PASS
CD74	5	150401637	150412929	-0.393084436	PASS
CD79A	19	41877120	41881372	0.048917043	PASS
CD79B	17	63928740	63932354	0.051798665	PASS
CD80	3	119524293	119559602	0.06434429	PASS
CD81	11	2376177	2397419	-0.39835217	PASS
CD82	11	44564427	44620363	0.059795455	PASS
CD83	6	14117256	14136918	0.069043418	PASS
CD84	1	160541095	160579516	0.088103245	PASS
CD86	3	122055366	122121139	0.06434429	PASS
CD8A	2	86784610	86808396	0.064122364	PASS
CD8B	2	86815339	86861924	0.064122364	PASS
CD8B2	2	106487364	106544297	-0.439572519	PASS
CD9	12	6199715	6238271	-0.015029783	PASS
CD93	20	23079349	23086340	-0.172056771	suppress_segment_too_large
CD96	3	111292719	111665750	0.22470242	PASS
CD99	23	2691133	2741309	-0.350651546	PASS
CD99L2	23	150766337	150898816	0.158844052	PASS
CDA	1	20588948	20618908	0.048749694	PASS
CDADC1	13	49247925	49293485	-0.384313056	PASS
CDAN1	15	42723544	42737128	-0.423772929	PASS
CDC123	10	12195965	12250589	0.075711544	PASS

CDC14A	1	100345001	100520278	0.079255572	PASS
CDC14B	9	96490241	96619830	0.073960965	PASS
CDC16	13	114234887	114272723	-0.426822582	PASS
CDC20	1	43358955	43363203	-0.736943052	PASS
CDC20B	5	55112995	55173175	-0.284712224	PASS
CDC23	5	138187648	138213343	-0.393084436	PASS
CDC25A	3	48157146	48188402	-0.727808231	PASS
CDC25B	20	3786772	3806121	-0.172056771	suppress_segment_too_large
CDC25C	5	138285265	138338355	-0.393084436	PASS
CDC26	9	113255835	113275589	0.073960965	PASS
CDC27	17	47117703	47189422	0.051798665	PASS
CDC34	19	531712	542092	-0.071973357	PASS
CDC37	19	10391134	10420121	-0.107594294	PASS
CDC37L1	9	4679559	4708398	0.073960965	PASS
CDC40	6	110180141	110254275	-0.355603029	PASS
CDC42	1	22052627	22092946	0.048749694	PASS
CDC42BP	1	226989865	227318474	-0.204996646	suppress_segment_too_large
CDC42BP	14	102932379	103057462	-0.155273506	suppress_segment_too_large
CDC42BP	11	64823387	64844569	0.064535884	PASS
CDC42EP1	22	37560447	37569405	-0.740245994	PASS
CDC42EP2	11	65314818	65322429	0.064535884	PASS
CDC42EP3	2	37641882	37738468	0.034263343	PASS
CDC42EP4	17	73283624	73312175	0.051798665	PASS
CDC42EP5	19	54465026	54473264	0.142581352	PASS
CDC42SE1	1	151050971	151070325	0.079255572	PASS
CDC42SE2	5	131245493	131398447	-0.393084436	PASS
CDC45	22	19479459	19520612	-0.740245994	PASS
CDC5L	6	44387525	44450426	0.028532667	PASS
CDC6	17	40287633	40304657	0.041294512	PASS
CDC7	1	91500893	91525764	0.079255572	PASS
CDC73	1	193121800	193254815	0.088103245	PASS
CDCA2	8	25458997	25507920	-0.311940419	PASS
CDCA3	12	6844793	6852066	-0.015029783	PASS
CDCA4	14	105009573	105021148	-0.155273506	suppress_segment_too_large
CDCA5	11	65066300	65084164	0.064535884	PASS
CDCA7	2	173354820	173368997	0.033541467	PASS
CDCA7L	7	21900900	21946084	-0.72421718	PASS
CDCA8	1	37692418	37709719	0.048749694	PASS
CDCP1	3	45082278	45146422	-0.727808231	PASS
CDCP2	1	54132968	54153770	-0.736943052	PASS
CDH1	16	68737225	68835548	-0.423061015	PASS
CDH10	5	24487100	24644978	0.073527871	PASS
CDH11	16	64943753	65126112	-0.423061015	PASS
CDH12	5	21750673	22853622	0.073527871	PASS
CDH13	16	82626803	83800640	-0.423061015	PASS
CDH15	16	89171767	89195492	-0.423061015	PASS
CDH16	16	66908122	66918984	-0.423061015	PASS
CDH17	8	94127171	94217303	0.355469066	suppress_segment_too_large
CDH18	5	19472951	20575873	0.073527871	PASS
CDH19	18	66501083	66604138	-0.330515409	PASS
CDH2	18	27950966	28177446	-0.330515409	PASS
CDH20	18	61333582	61555773	-0.330515409	PASS
CDH22	20	46173733	46308498	-0.172056771	suppress_segment_too_large
CDH23	10	71396934	71815947	0.032351597	PASS

CDH24	14	23047062	23057538	0.053252507	PASS
CDH26	20	59958427	60034011	-0.172056771	suppress_segment_too_large
CDH3	16	68636189	68722616	-0.423061015	PASS
CDH4	20	61252426	61940617	-0.172056771	suppress_segment_too_large
CDH5	16	66366622	66404786	-0.423061015	PASS
CDH6	5	31193750	31329146	0.073527871	PASS
CDH7	18	65750252	65890341	-0.330515409	PASS
CDH8	16	61647242	62037035	-0.423061015	PASS
CDH9	5	26880600	27121150	0.073527871	PASS
CDHR1	10	84194635	84219621	0.032351597	PASS
CDHR2	5	176542511	176595974	0.165341871	suppress_segment_too_large
CDHR3	7	105876796	106033773	-0.712149877	PASS
CDHR4	3	49790732	49799835	-0.727808231	PASS
CDHR5	11	616565	626078	-0.39835217	PASS
CDIP1	16	4510675	4538828	0.053595371	PASS
CDIPT	16	29858357	29863736	0.053595371	PASS
CDK1	10	60778331	60794852	0.032351597	PASS
CDK10	16	89680737	89696364	-0.423061015	PASS
CDK11A	1	1702730	1724324	-0.358281697	PASS
CDK11B	1	1635227	1659012	-0.358281697	PASS
CDK12	17	39461511	39564907	0.041294512	PASS
CDK13	7	39949646	40099580	-0.72421718	PASS
CDK14	7	90466424	91210590	-0.710463272	PASS
CDK15	2	201790461	201895550	0.011001208	PASS
CDK16	23	47217860	47229997	0.158844052	PASS
CDK17	12	96278261	96400560	0.028722739	PASS
CDK18	1	205504595	205532793	-0.204996646	suppress_segment_too_large
CDK19	6	110609978	110815958	-0.355603029	PASS
CDK2	12	55966769	55972784	-0.743220499	PASS
CDK20	9	87966441	87974753	0.073960965	PASS
CDK2AP1	12	123260971	123272334	0.028722739	PASS
CDK2AP2	11	67506497	67508649	0.064535884	PASS
CDK3	17	76000906	76005999	0.051798665	PASS
CDK4	12	57747727	57756013	-0.743220499	PASS
CDK5	7	151053812	151058530	-0.712149877	PASS
CDK5R1	17	32486619	32491256	0.041294512	PASS
CDK5R2	2	218959655	218962162	0.011001208	PASS
CDK5RAP	20	33358839	33401561	-0.172056771	suppress_segment_too_large
CDK5RAP	9	120388869	120580170	0.073960965	PASS
CDK5RAP	17	47967810	47981774	0.051798665	PASS
CDK6	7	92604921	92836594	-0.710463272	PASS
CDK7	5	69234795	69277430	-0.393084436	PASS
CDK8	13	26254104	26405238	-0.398748891	PASS
CDK9	9	127785679	127790787	0.073960965	PASS
CDKAL1	6	20534457	21232404	0.069043418	PASS
CDKL1	14	50329404	50416461	0.053252507	PASS
CDKL2	4	75578005	75630716	-0.677982248	PASS
CDKL3	5	134286350	134371047	-0.393084436	PASS
CDKL4	2	39175646	39229588	0.034263343	PASS
CDKL5	23	18425583	18653629	0.158844052	PASS
CDKN1A	6	36676460	36687339	0.028532667	PASS
CDKN1B	12	12715058	12722371	0.49032213	suppress_segment_too_large
CDKN1C	11	2883213	2885773	-0.39835217	PASS
CDKN2A	9	21967753	21995301	0.073960965	PASS

CDKN2AI	4	183444591	183448198	-0.453876349	PASS
CDKN2AI	5	134402087	134411898	-0.393084436	PASS
CDKN2B	9	22002903	22009363	0.073960965	PASS
CDKN2C	1	50960745	50974633	-0.736943052	PASS
CDKN2D	19	10566462	10569059	-0.107594294	PASS
CDKN3	14	54396849	54420218	0.053252507	PASS
CDNF	10	14819250	14838575	0.075711544	PASS
CDO1	5	115804733	115816954	-0.393084436	PASS
CDON	11	125955796	126063335	-0.431650509	PASS
CDPF1	22	46244011	46250679	-0.953096644	PASS
CDR1	23	140783578	140784366	0.158844052	PASS
CDR2	16	22345936	22437165	0.053595371	PASS
CDR2L	17	74987632	75005800	0.051798665	PASS
CDRT1	17	15565483	15619512	0.06854245	PASS
CDRT15	17	14235673	14236862	0.06854245	PASS
CDRT15L2	17	20579724	20580911	0.06854245	PASS
CDRT4	17	15436015	15503608	0.06854245	PASS
CDS1	4	84582979	84651338	-0.677982248	PASS
CDS2	20	5126786	5197887	-0.172056771	suppress_segment_too_large
CDSN	6	31115090	31120446	0.069043418	PASS
CDT1	16	88803213	88809258	-0.423061015	PASS
CDV3	3	133573730	133590261	0.06434429	PASS
CDX1	5	150166795	150184558	-0.393084436	PASS
CDX2	13	27962137	27971139	-0.398748891	PASS
CDX4	23	73447254	73455245	0.158844052	PASS
CDYL	6	4706159	4955551	0.069043418	PASS
CDYL2	16	80597906	80804329	-0.423061015	PASS
CEACAM1	19	42507304	42561234	0.048917043	PASS
CEACAM1	19	44699151	44710714	0.002743503	PASS
CEACAM1	19	51478622	51490952	0.002743503	PASS
CEACAM1	19	44662278	44684359	0.002743503	PASS
CEACAM2	19	44501677	44529788	0.002743503	PASS
CEACAM2	19	41549518	41586844	0.048917043	PASS
CEACAM3	19	41796437	41811553	0.048917043	PASS
CEACAM4	19	41618971	41627074	0.048917043	PASS
CEACAM5	19	41708585	41729798	0.048917043	PASS
CEACAM6	19	41750977	41772208	0.048917043	PASS
CEACAM7	19	41673307	41706976	0.048917043	PASS
CEACAM8	19	42580241	42595055	0.048917043	PASS
CEBPA	19	33299934	33302564	0.044838622	PASS
CEBPB	20	50190734	50192689	-0.172056771	suppress_segment_too_large
CEBPD	8	47736909	47739086	0.182873287	suppress_segment_too_large
CEBPE	14	23117304	23119616	0.053252507	PASS
CEBPG	19	33373330	33382686	0.044838622	PASS
CEBPZ	2	37201612	37231713	0.034263343	PASS
CEBPZOS	2	37196488	37216193	0.034263343	PASS
CECR2	22	17359949	17558149	-0.740245994	PASS
CEL	9	133061978	133071861	0.073960965	PASS
CELA1	12	51328443	51346679	-0.743220499	PASS
CELA2A	1	15456728	15472091	0.048749694	PASS
CELA2B	1	15465909	15491400	0.048749694	PASS
CELA3A	1	22001656	22012539	0.048749694	PASS
CELA3B	1	21977021	21998642	0.048749694	PASS
CELF1	11	47465933	47565569	0.059795455	PASS

CELF2	10	10798397	11336675	0.075711544	PASS
CELF3	1	151702404	151716814	0.079255572	PASS
CELF4	18	37243047	37566037	-0.330515409	PASS
CELF5	19	3224703	3297076	-0.071973357	PASS
CELF6	15	72284727	72320129	-0.759380635	PASS
CELSR1	22	46360834	46537170	-0.953096644	PASS
CELSR2	1	109250019	109275750	0.079255572	PASS
CELSR3	3	48636469	48662915	-0.727808231	PASS
CEMIP	15	80779343	80951776	-0.759380635	PASS
CEMIP2	9	71683366	71816690	0.073960965	PASS
CEMP1	16	2530035	2531417	0.053595371	PASS
CEND1	11	787104	790123	-0.39835217	PASS
CENPA	2	26764289	26801067	0.034263343	PASS
CENPB	20	3783851	3786690	-0.172056771	suppress_segment_too_large
CENPBD1	16	89969773	89972832	-0.423061015	PASS
CENPC	4	67468748	67545606	0.115781418	suppress_segment_too_large
CENPE	4	103105806	103198409	-0.677982248	PASS
CENPF	1	214603195	214664588	-0.204996646	suppress_segment_too_large
CENPH	5	69189548	69210357	-0.393084436	PASS
CENPI	23	101098218	101163681	0.158844052	PASS
CENPJ	13	24882284	24922889	-0.398748891	PASS
CENPK	5	65517766	65563171	-0.393084436	PASS
CENPL	1	173799550	173824720	0.088103245	PASS
CENPM	22	41938721	41947164	-0.740245994	PASS
CENPN	16	81006498	81033114	-0.423061015	PASS
CENPO	2	24793136	24822376	0.034263343	PASS
CENPP	9	92325484	92620533	0.073960965	PASS
CENPQ	6	49463378	49493107	0.239805577	suppress_segment_too_large
CENPS	1	10430443	10442809	0.364796772	PASS
CENPS-CC	1	10430102	10452153	0.364796772	PASS
CENPT	16	67828157	67847811	-0.423061015	PASS
CENPU	4	184694618	184734133	-0.453876349	PASS
CENPV	17	16342534	16353656	0.06854245	PASS
CENPVL3	23	51617024	51618968	0.158844052	PASS
CENPW	6	126340174	126348875	-0.304168115	PASS
CENPX	17	82018702	82024107	0.051798665	PASS
CEP104	1	3812081	3857214	-0.358281697	PASS
CEP112	17	65635538	66192084	0.051798665	PASS
CEP120	5	123344885	123423592	-0.393084436	PASS
CEP126	11	101915015	102001058	0.32805343	suppress_segment_too_large
CEP128	14	80476983	80959517	-0.155273506	suppress_segment_too_large
CEP131	17	81189593	81222999	0.051798665	PASS
CEP135	4	55948871	56033363	0.115781418	suppress_segment_too_large
CEP152	15	48712928	48811146	-0.423772929	PASS
CEP162	6	84124241	84227635	-0.355603029	PASS
CEP164	11	117314557	117413268	-0.431650509	PASS
CEP170	1	243124428	243255348	-0.287484925	PASS
CEP170B	14	104865280	104896770	-0.155273506	suppress_segment_too_large
CEP19	3	196706277	196712293	0.02267528	PASS
CEP192	18	12991362	13125052	0.044197172	PASS
CEP250	20	35455164	35519280	-0.172056771	suppress_segment_too_large
CEP290	12	88049014	88142216	0.271127429	suppress_segment_too_large
CEP295	11	93661639	93730358	0.064535884	PASS
CEP295NL	17	78870910	78903217	0.051798665	PASS

CEP350	1	179954738	180114880	0.088103245	PASS
CEP41	7	130393771	130442433	-0.712149877	PASS
CEP44	4	174283677	174333380	0.142431244	suppress_segment_too_large
CEP55	10	93496632	93529092	-0.414937136	PASS
CEP57	11	95789965	95832693	0.32805343	suppress_segment_too_large
CEP57L1	6	109095110	109163932	-0.355603029	PASS
CEP63	3	134485721	134575017	0.06434429	PASS
CEP68	2	65056366	65087004	-0.46122572	PASS
CEP70	3	138494344	138594538	0.06434429	PASS
CEP72	5	612272	667168	0.073527871	PASS
CEP76	18	12661833	12702777	0.044197172	PASS
CEP78	9	78236062	78279690	0.073960965	PASS
CEP83	12	94306449	94459988	0.028722739	PASS
CEP85	1	26234200	26278808	0.048749694	PASS
CEP85L	6	118460772	118710075	-0.355603029	PASS
CEP89	19	32875925	32971991	0.044838622	PASS
CEP95	17	64506588	64542461	0.051798665	PASS
CEP97	3	101723925	101770562	0.22470242	PASS
CEPT1	1	111139627	111185102	0.079255572	PASS
CER1	9	14719724	14722717	0.073960965	PASS
CERCAM	9	128411751	128437351	0.073960965	PASS
CERK	22	46684411	46738261	-0.953096644	PASS
CERKL	2	181536676	181680665	0.162734012	PASS
CERS1	19	18868545	18896727	-0.069222905	PASS
CERS2	1	150960583	150975004	0.079255572	PASS
CERS3	15	100400395	100544995	-0.759380635	PASS
CERS4	19	8206736	8262421	-0.071973357	PASS
CERS5	12	50129306	50167533	-0.743220499	PASS
CERS6	2	168455862	168775137	0.033541467	PASS
CES1	16	55802851	55833337	-0.423061015	PASS
CES2	16	66934444	66945096	-0.423061015	PASS
CES3	16	66961237	66975148	-0.423061015	PASS
CES4A	16	66988589	67009758	-0.423061015	PASS
CES5A	16	55846154	55956031	-0.423061015	PASS
CETN1	18	580357	582114	0.044197172	PASS
CETN2	23	152826973	152830777	0.158844052	PASS
CETN3	5	90392261	90409786	-0.393084436	PASS
CETP	16	56961850	56983845	-0.423061015	PASS
CFAP100	3	126394939	126436556	0.06434429	PASS
CFAP126	1	161364731	161367874	0.088103245	PASS
CFAP157	9	127706989	127716002	0.073960965	PASS
CFAP161	15	81007033	81149175	-0.759380635	PASS
CFAP20	16	58113588	58129450	-0.423061015	PASS
CFAP206	6	87407983	87464465	-0.355603029	PASS
CFAP221	2	119544432	119662251	-0.359440172	PASS
CFAP298	21	32592079	32612866	0.209983559	PASS
CFAP299	4	80335720	80963756	-0.677982248	PASS
CFAP300	11	102047443	102084560	0.32805343	suppress_segment_too_large
CFAP36	2	55519604	55545879	-0.052193497	PASS
CFAP410	21	44328944	44339402	0.209983559	PASS
CFAP43	10	104129888	104232362	-0.414937136	PASS
CFAP44	3	113286947	113441610	0.06434429	PASS
CFAP45	1	159872364	159900163	0.088103245	PASS
CFAP46	10	132808392	132942823	0.073090211	PASS

CFAP47	23	35919734	36385319	0.158844052	PASS
CFAP52	17	9576627	9643459	0.06854245	PASS
CFAP53	18	50227193	50266522	-0.330515409	PASS
CFAP54	12	96489571	96875555	0.028722739	PASS
CFAP57	1	43172149	43254358	-0.736943052	PASS
CFAP58	10	104353764	104455090	-0.414937136	PASS
CFAP61	20	20052514	20360702	-0.172056771	suppress_segment_too_large
CFAP65	2	219002846	219041527	0.011001208	PASS
CFAP69	7	90245174	90311063	-0.710463272	PASS
CFAP70	10	73253759	73358859	0.032351597	PASS
CFAP73	12	113149858	113159276	0.028722739	PASS
CFAP74	1	1921951	2003837	-0.358281697	PASS
CFAP77	9	132410043	132573317	0.073960965	PASS
CFAP97	4	185159665	185209504	0.275137421	PASS
CFAP97D1	17	43780435	43787612	0.051798665	PASS
CFAP99	4	2418974	2462942	-0.358623662	PASS
CFB	6	31945650	31952084	0.028532667	PASS
CFC1	2	130592168	130599575	-0.359440172	PASS
CFD	19	859643	863630	-0.071973357	PASS
CFDP1	16	75293698	75433485	-0.423061015	PASS
CFH	1	196651878	196747504	0.088103245	PASS
CFHR1	1	196819757	196832189	0.088103245	PASS
CFHR2	1	196943756	196959226	0.088103245	PASS
CFHR3	1	196774795	196795406	0.088103245	PASS
CFHR4	1	196888014	196918713	0.088103245	PASS
CFHR5	1	196977556	197009674	0.088103245	PASS
CFI	4	109740694	109802179	-0.677982248	PASS
CFL1	11	65823022	65862026	0.064535884	PASS
CFL2	14	34706769	34714823	0.053252507	PASS
CFLAR	2	201116104	201176687	0.011001208	PASS
CFP	23	47623172	47630305	0.158844052	PASS
CFTR	7	117465784	117715971	-0.712149877	PASS
CGA	6	87085498	87095406	-0.355603029	PASS
CGAS	6	73413515	73452276	-0.250122709	PASS
CGB1	19	49035610	49036895	0.002743503	PASS
CGB2	19	49031912	49033238	0.002743503	PASS
CGB3	19	49022869	49024333	0.002743503	PASS
CGB5	19	49043884	49045311	0.002743503	PASS
CGB7	19	49054275	49058860	0.002743503	PASS
CGB8	19	49047638	49049106	0.002743503	PASS
CGGBP1	3	88051944	88149885	0.22470242	PASS
CGN	1	151510510	151538692	0.079255572	PASS
CGNL1	15	57375967	57550727	-0.759380635	PASS
CGREF1	2	27098889	27119115	0.034263343	PASS
CGRRF1	14	54509812	54539309	0.053252507	PASS
CH25H	10	89205629	89207314	-2.417109027	suppress_large_homdel
CHAC1	15	40952962	40956519	-0.423772929	PASS
CHAC2	2	53767792	53775196	0.034263343	PASS
CHAD	17	50464496	50468966	0.051798665	PASS
CHADL	22	41229510	41240934	-0.740245994	PASS
CHAF1A	19	4402662	4445018	-0.071973357	PASS
CHAF1B	21	36385378	36419015	0.209983559	PASS
CHAMP1	13	114314335	114337626	-0.426822582	PASS
CHAT	10	49609095	49665104	-0.389033546	PASS

CHCHD1	10	73782047	73783652	0.032351597	PASS
CHCHD10	22	23765834	23768443	-0.740245994	PASS
CHCHD2	7	56101569	56106576	-0.701511252	PASS
CHCHD3	7	132784868	133082088	-0.712149877	PASS
CHCHD4	3	14112077	14124870	0.06149513	PASS
CHCHD5	2	112584240	112589275	0.040971718	PASS
CHCHD6	3	126704220	126960406	0.06434429	PASS
CHCHD7	8	56211686	56218798	0.182873287	suppress_segment_too_large
CHD1	5	98853985	98928957	-0.393084436	PASS
CHD1L	1	147242641	147295766	0.079255572	PASS
CHD2	15	92900189	93028005	-0.759380635	PASS
CHD3	17	7884806	7912760	0.06854245	PASS
CHD4	12	6570082	6614524	-0.015029783	PASS
CHD5	1	6101793	6180123	0.364796772	PASS
CHD6	20	41402101	41618494	-0.172056771	suppress_segment_too_large
CHD7	8	60678778	60868028	0.182873287	suppress_segment_too_large
CHD8	14	21385194	21456126	0.053252507	PASS
CHD9	16	53055033	53329150	-0.423061015	PASS
CHDH	3	53812335	53846390	-0.727808231	PASS
CHEK1	11	125625136	125676255	-0.431650509	PASS
CHEK2	22	28687743	28742422	-0.740245994	PASS
CHERP	19	16517889	16542530	-0.069222905	PASS
CHFR	12	132822187	132956304	0.232349073	PASS
CHGA	14	92923080	92935293	-0.155273506	suppress_segment_too_large
CHGB	20	5911430	5925361	-0.172056771	suppress_segment_too_large
CHI3L1	1	203178931	203186749	-0.204996646	suppress_segment_too_large
CHI3L2	1	111200771	111243440	0.079255572	PASS
CHIA	1	111290862	111320566	0.079255572	PASS
CHIC1	23	73563200	73687102	0.158844052	PASS
CHIC2	4	54009789	54064690	0.115781418	suppress_segment_too_large
CHID1	11	867860	915058	-0.39835217	PASS
CHIT1	1	203212827	203273641	-0.204996646	suppress_segment_too_large
CHKA	11	68052859	68121444	0.064535884	PASS
CHKB	22	50578949	50601455	-0.953096644	PASS
CHKB-CP′	22	50568869	50582965	-0.953096644	PASS
CHL1	3	196596	409417	0.06149513	PASS
CHM	23	85861180	86047562	0.158844052	PASS
CHML	1	241628853	241640254	-0.287484925	PASS
CHMP1A	16	89644431	89657845	-0.423061015	PASS
CHMP1B	18	11851396	11854449	0.044197172	PASS
CHMP2A	19	58551566	58555124	0.142581352	PASS
CHMP2B	3	87227271	87255548	0.22470242	PASS
CHMP3	2	86503431	86563479	0.064122364	PASS
CHMP4A	14	24209583	24213869	0.053252507	PASS
CHMP4B	20	33811304	33854366	-0.172056771	suppress_segment_too_large
CHMP4C	8	81732434	81759515	0.617295349	suppress_segment_too_large
CHMP5	9	33264879	33282069	0.073960965	PASS
CHMP6	17	80991598	81009517	0.051798665	PASS
CHMP7	8	23243637	23262000	-0.311940419	PASS
CHN1	2	174799363	175005369	0.033541467	PASS
CHN2	7	29146569	29514328	-0.72421718	PASS
CHODL	21	17901263	18267373	0.758930684	suppress_segment_too_large
CHORDC1	11	90201160	90223364	0.064535884	PASS
CHP1	15	41230839	41281890	-0.423772929	PASS

CHP2	16	23754627	23758951	0.053595371	PASS
CHPF	2	219538947	219543787	0.011001208	PASS
CHPF2	7	151232489	151238827	-0.712149877	PASS
CHPT1	12	101696947	101744140	0.028722739	PASS
CHRAC1	8	140511298	140517137	0.493344802	suppress_segment_too_large
CHRD	3	184380073	184390736	0.02267528	PASS
CHRDL1	23	110673856	110795819	0.158844052	PASS
CHRDL2	11	74696429	74731385	0.064535884	PASS
CHRFAM7	15	30357766	30393849	-0.423772929	PASS
CHRM1	11	62908679	62921807	0.064535884	PASS
CHRM2	7	136868669	137020255	-0.712149877	PASS
CHRM3	1	239386565	239915452	-0.287484925	PASS
CHRM4	11	46385098	46386608	0.059795455	PASS
CHRM5	15	33968720	34067457	-0.423772929	PASS
CHRNA1	2	174747592	174787935	0.033541467	PASS
CHRNA10	11	3665587	3671384	-0.39835217	PASS
CHRNA2	8	27459761	27479883	-0.311940419	PASS
CHRNA3	15	78593052	78621295	-0.759380635	PASS
CHRNA4	20	63343223	63378401	-0.172056771	suppress_segment_too_large
CHRNA5	15	78565520	78595269	-0.759380635	PASS
CHRNA6	8	42752620	42796392	0.182873287	suppress_segment_too_large
CHRNA7	15	31923438	32173018	-0.423772929	PASS
CHRNA9	4	40335329	40355217	-0.753159364	PASS
CHRNB1	17	7445061	7457707	0.06854245	PASS
CHRNB2	1	154567781	154580026	0.088103245	PASS
CHRNB3	8	42697376	42737407	0.182873287	suppress_segment_too_large
CHRNB4	15	78624119	78727754	-0.759380635	PASS
CHRND	2	232525993	232536667	0.011001208	PASS
CHRNE	17	4897774	4934438	0.06854245	PASS
CHRNG	2	232539727	232546403	0.011001208	PASS
CHST1	11	45648877	45665622	0.059795455	PASS
CHST10	2	100391860	100417656	0.064122364	PASS
CHST11	12	104455295	104762014	0.028722739	PASS
CHST12	7	2403560	2448483	-0.72421718	PASS
CHST13	3	126524283	126543291	0.06434429	PASS
CHST14	15	40470998	40474571	-0.423772929	PASS
CHST15	10	124007666	124093607	0.073090211	PASS
CHST2	3	143119331	143124014	0.02267528	PASS
CHST3	10	71964365	72013564	0.032351597	PASS
CHST4	16	71525233	71538746	-0.423061015	PASS
CHST5	16	75528535	75535247	-0.423061015	PASS
CHST6	16	75472052	75495445	-0.423061015	PASS
CHST7	23	46573784	46598408	0.158844052	PASS
CHST8	19	33621955	33773509	0.044838622	PASS
CHST9	18	26906481	27185317	-0.330515409	PASS
CHSY1	15	101175723	101251932	-0.759380635	PASS
CHSY3	5	129904472	130186634	-0.393084436	PASS
CHTF18	16	788046	800737	0.053595371	PASS
CHTF8	16	69118010	69132584	-0.423061015	PASS
CHTOP	1	153633982	153646306	0.088103245	PASS
CHUK	10	100188298	100229619	-0.414937136	PASS
CHURC1	14	64914361	64944591	0.053252507	PASS
CHURC1-l	14	64914485	65061803	0.053252507	PASS
CIAO1	2	96266132	96273349	0.064122364	PASS

CIAO2A	15	64072559	64094018	-0.759380635	PASS
CIAO2B	16	66932055	66934423	-0.423061015	PASS
CIAO3	16	729753	741329	0.053595371	PASS
CIAPIN1	16	57428169	57447528	-0.423061015	PASS
CIART	1	150282543	150287093	0.079255572	PASS
CIB1	15	90229975	90234047	-0.759380635	PASS
CIB2	15	78104606	78131544	-0.759380635	PASS
CIB3	19	16161368	16173525	-0.069222905	PASS
CIB4	2	26581202	26641368	0.034263343	PASS
CIC	19	42268537	42295797	0.048917043	PASS
CIDEA	18	12254319	12277595	0.044197172	PASS
CIDEB	14	24305096	24311430	0.053252507	PASS
CIDEC	3	9866711	9880254	0.06149513	PASS
CIITA	16	10866222	10943021	0.053595371	PASS
CILP	15	65194758	65211488	-0.759380635	PASS
CILP2	19	19538248	19546659	-0.069222905	PASS
CINP	14	102341102	102362916	-0.155273506	suppress_segment_too_large
CIP2A	3	108549869	108589644	0.22470242	PASS
CIPC	14	77098097	77117287	-0.155273506	suppress_segment_too_large
CIR1	2	174348022	174395715	0.033541467	PASS
CIRBP	19	1259384	1274880	-0.071973357	PASS
CISD1	10	58269058	58289586	0.032351597	PASS
CISD2	4	102868974	102892807	-0.677982248	PASS
CISD3	17	38730235	38735044	0.041294512	PASS
CISH	3	50606490	50611831	-0.727808231	PASS
CIT	12	119685790	119877291	0.028722739	PASS
CITED1	23	72301638	72307187	0.158844052	PASS
CITED2	6	139371807	139374620	0.033894706	PASS
CITED4	1	40861051	40862366	0.048749694	PASS
CIZ1	9	128166064	128204383	0.073960965	PASS
CKAP2	13	52455429	52476628	-0.384313056	PASS
CKAP2L	2	112736607	112764677	0.040971718	PASS
CKAP4	12	106237877	106304279	0.028722739	PASS
CKAP5	11	46743048	46846308	0.059795455	PASS
CKB	14	103519659	103523111	-0.155273506	suppress_segment_too_large
CKLF	16	66552563	66566251	-0.423061015	PASS
CKLF-CM	16	66552587	66579135	-0.423061015	PASS
CKM	19	45306414	45322977	0.002743503	PASS
CKMT1A	15	43692886	43699222	-0.423772929	PASS
CKMT1B	15	43593054	43604901	-0.423772929	PASS
CKMT2	5	81233285	81266397	-0.393084436	PASS
CKS1B	1	154974653	154979249	0.088103245	PASS
CKS2	9	89311198	89316703	0.073960965	PASS
CLASP1	2	121337776	121649587	-0.359440172	PASS
CLASP2	3	33496245	33718356	0.06149513	PASS
CLASRP	19	45039040	45070956	0.002743503	PASS
CLBA1	14	104985775	105010482	-0.155273506	suppress_segment_too_large
CLC	19	39731250	39738028	0.048917043	PASS
CLCA1	1	86468368	86500289	0.079255572	PASS
CLCA2	1	86424086	86456558	0.079255572	PASS
CLCA4	1	86547078	86580754	0.079255572	PASS
CLCC1	1	108929508	108963457	0.079255572	PASS
CLCF1	11	67364168	67374177	0.064535884	PASS
CLCN1	7	143316126	143352083	-0.712149877	PASS

CLCN2	3	184346185	184361651	0.02267528	PASS
CLCN3	4	169612633	169723673	0.142431244	suppress_segment_too_large
CLCN4	23	10156945	10237660	0.158844052	PASS
CLCN5	23	49922615	50099235	0.158844052	PASS
CLCN6	1	11806096	11848079	0.364796772	PASS
CLCN7	16	1444934	1475580	0.053595371	PASS
CLCNKA	1	16018875	16034050	0.048749694	PASS
CLCNKB	1	16043736	16057308	0.048749694	PASS
CLDN1	3	190305701	190322475	0.02267528	PASS
CLDN10	13	95433604	95579759	-0.384313056	PASS
CLDN11	3	170418865	170454733	0.02267528	PASS
CLDN12	7	90383721	90513402	-0.710463272	PASS
CLDN14	21	36460621	36576569	0.209983559	PASS
CLDN15	7	101232092	101238820	-0.712149877	PASS
CLDN16	3	190322541	190412143	0.02267528	PASS
CLDN17	21	30165564	30166756	0.209983559	PASS
CLDN18	3	137998735	138033655	0.06434429	PASS
CLDN19	1	42733093	42740254	-0.736943052	PASS
CLDN2	23	106900164	106930861	0.158844052	PASS
CLDN20	6	155264013	155276548	0.033894706	PASS
CLDN22	4	183318194	183320774	-0.453876349	PASS
CLDN23	8	8701938	8704106	-0.311940419	PASS
CLDN24	4	183321764	183322426	-0.453876349	PASS
CLDN25	11	113779747	113780500	-0.431650509	PASS
CLDN3	7	73768997	73770270	-0.701511252	PASS
CLDN34	23	9967358	9968352	0.158844052	PASS
CLDN4	7	73799542	73832693	-0.701511252	PASS
CLDN5	22	19523024	19527545	-0.740245994	PASS
CLDN6	16	3014712	3020071	0.053595371	PASS
CLDN7	17	7259903	7263983	0.06854245	PASS
CLDN8	21	30214006	30216073	0.209983559	PASS
CLDN9	16	3012456	3014505	0.053595371	PASS
CLDND1	3	98497912	98523066	0.22470242	PASS
CLDND2	19	51367098	51369003	0.002743503	PASS
CLEC10A	17	7074537	7080307	0.06854245	PASS
CLEC11A	19	50723329	50725718	0.002743503	PASS
CLEC12A	12	9951316	9995694	0.505438545	PASS
CLEC12B	12	10010627	10018619	0.505438545	PASS
CLEC14A	14	38254103	38256369	0.053252507	PASS
CLEC16A	16	10944488	11182189	0.053595371	PASS
CLEC17A	19	14583084	14611157	-0.069222905	PASS
CLEC18A	16	69950705	69964452	-0.423061015	PASS
CLEC18B	16	74408270	74421953	-0.423061015	PASS
CLEC18C	16	70173322	70187361	-0.423061015	PASS
CLEC19A	16	19285739	19322145	0.053595371	PASS
CLEC1A	12	10069554	10111627	0.505438545	PASS
CLEC1B	12	9985642	10013424	0.505438545	PASS
CLEC2A	12	9898673	9932381	0.505438545	PASS
CLEC2B	12	9852984	9870136	0.505438545	PASS
CLEC2D	12	9664969	9699555	0.505438545	PASS
CLEC2L	7	139523856	139544984	-0.712149877	PASS
CLEC3A	16	78022515	78066761	-0.423061015	PASS
CLEC3B	3	45001548	45036071	-0.727808231	PASS
CLEC4A	12	8123632	8138607	-0.015029783	PASS

CLEC4C	12	7729415	7751605	-0.015029783	PASS
CLEC4D	12	8509475	8522366	0.505438545	PASS
CLEC4E	12	8533305	8540963	0.505438545	PASS
CLEC4F	2	70808643	70820600	-0.46122572	PASS
CLEC4G	19	7728957	7733906	-0.071973357	PASS
CLEC4M	19	7763149	7769605	-0.071973357	PASS
CLEC5A	7	141927357	141947007	-0.712149877	PASS
CLEC6A	12	8455926	8478330	0.505438545	PASS
CLEC7A	12	10116777	10130258	0.505438545	PASS
CLEC9A	12	10030677	10066027	0.505438545	PASS
CLECL1	12	9715860	9733299	0.505438545	PASS
CLGN	4	140388455	140427968	0.142431244	suppress_segment_too_large
CLHC1	2	55174791	55232563	-0.052193497	PASS
CLIC1	6	31730581	31739763	0.028532667	PASS
CLIC2	23	155276211	155334657	0.158844052	PASS
CLIC3	9	136994635	136996803	0.073960965	PASS
CLIC4	1	24745357	24844324	0.048749694	PASS
CLIC5	6	45880827	46080348	0.028532667	PASS
CLIC6	21	34669389	34718227	0.209983559	PASS
CLINT1	5	157785743	157859175	0.165341871	suppress_segment_too_large
CLIP1	12	122271432	122422632	0.028722739	PASS
CLIP2	7	74289475	74405943	-0.701511252	PASS
CLIP3	19	36014660	36033343	0.044838622	PASS
CLIP4	2	29097705	29189643	0.034263343	PASS
CLK1	2	200853009	200864744	0.011001208	PASS
CLK2	1	155262868	155278491	0.088103245	PASS
CLK3	15	74598500	74645414	-0.759380635	PASS
CLK4	5	178602664	178630615	0.165341871	suppress_segment_too_large
CLLU1OS	12	92420094	92428148	0.271127429	suppress_segment_too_large
CLMN	14	95181940	95319906	-0.155273506	suppress_segment_too_large
CLMP	11	123069865	123195281	-0.431650509	PASS
CLN3	16	28474111	28495575	0.053595371	PASS
CLN5	13	76990660	77019143	-0.384313056	PASS
CLN6	15	68206992	68257211	-0.759380635	PASS
CLN8	8	1755778	1801711	-0.311940419	PASS
CLNK	4	10486395	10684865	-0.358623662	PASS
CLNS1A	11	77514936	77637805	0.064535884	PASS
CLOCK	4	55427903	55547138	0.115781418	suppress_segment_too_large
CLP1	11	57648992	57661868	0.27006553	suppress_segment_too_large
CLPB	11	72285495	72434680	0.064535884	PASS
CLPP	19	6361452	6368910	-0.071973357	PASS
CLPS	6	35794982	35797344	0.028532667	PASS
CLPSL1	6	35781017	35793675	0.028532667	PASS
CLPSL2	6	35776594	35779552	0.028532667	PASS
CLPTM1	19	44954585	44993341	0.002743503	PASS
CLPTM1L	5	1317744	1345099	0.073527871	PASS
CLPX	15	65148219	65185342	-0.759380635	PASS
CLRN1	3	150926163	150972999	0.02267528	PASS
CLRN2	4	17515165	17527104	-0.358623662	PASS
CLRN3	10	127877841	127892947	0.073090211	PASS
CLSPN	1	35720218	35769967	0.048749694	PASS
CLSTN1	1	9729026	9824526	0.364796772	PASS
CLSTN2	3	139935185	140577397	-0.889410434	PASS
CLSTN3	12	7129698	7158945	-0.015029783	PASS

CLTA	9	36190856	36304781	0.073960965	PASS
CLTB	5	176392455	176416569	0.165341871	suppress_segment_too_large
CLTC	17	59619689	59696956	0.051798665	PASS
CLTCL1	22	19179473	19291716	-0.740245994	PASS
CLTRN	23	15627318	15675012	0.158844052	PASS
CLU	8	27596917	27615031	-0.311940419	PASS
CLUAP1	16	3500924	3539048	0.053595371	PASS
CLUH	17	2689386	2712663	0.06854245	PASS
CLUL1	18	596988	650334	0.044197172	PASS
CLVS1	8	61057158	61501645	0.182873287	suppress_segment_too_large
CLVS2	6	122995971	123072927	-1.845658544	PASS
CLYBL	13	99606669	99897134	-0.384313056	PASS
CMA1	14	24505353	24508265	0.053252507	PASS
CMAS	12	22046174	22065674	0.49032213	suppress_segment_too_large
CMBL	5	10275875	10308026	0.073527871	PASS
CMC1	3	28241584	28325142	0.06149513	PASS
CMC2	16	80966448	81020270	-0.423061015	PASS
CMC4	23	155061622	155071362	0.158844052	PASS
CMIP	16	81445170	81711762	-0.423061015	PASS
CMKLR1	12	108288044	108339341	0.028722739	PASS
CMPK1	1	47333797	47378839	-0.736943052	PASS
CMPK2	2	6840570	6866635	0.034263343	PASS
CMSS1	3	99817834	100181732	0.22470242	PASS
CMTM1	16	66566393	66579137	-0.423061015	PASS
CMTM2	16	66579448	66588275	-0.423061015	PASS
CMTM3	16	66603874	66613892	-0.423061015	PASS
CMTM4	16	66614750	66696707	-0.423061015	PASS
CMTM5	14	23376773	23379772	0.053252507	PASS
CMTM6	3	32481312	32503408	0.06149513	PASS
CMTM7	3	32391671	32483067	0.06149513	PASS
CMTM8	3	32238679	32370325	0.06149513	PASS
CMTR1	6	37433219	37482827	0.028532667	PASS
CMTR2	16	71281389	71289715	-0.423061015	PASS
CMYA5	5	79689877	79800240	-0.393084436	PASS
CNBD1	8	86866442	87615219	0.617295349	suppress_segment_too_large
CNBD2	20	35954564	36030700	-0.172056771	suppress_segment_too_large
CNBP	3	129169484	129183922	0.06434429	PASS
CNDP1	18	74534440	74587212	-0.330515409	PASS
CNDP2	18	74495816	74523454	-0.330515409	PASS
CNEP1R1	16	50024410	50037088	0.411512417	PASS
CNFN	19	42387019	42390287	0.048917043	PASS
CNGA1	4	47935977	48016672	0.115781418	suppress_segment_too_large
CNGA2	23	151738451	151745304	0.158844052	PASS
CNGA3	2	98346155	98398601	0.064122364	PASS
CNGA4	11	6234765	6244429	-0.39835217	PASS
CNGB1	16	57882340	57971116	-0.423061015	PASS
CNGB3	8	86553977	86743675	0.617295349	suppress_segment_too_large
CNIH1	14	54423560	54441431	0.053252507	PASS
CNIH2	11	66278190	66285301	0.064535884	PASS
CNIH3	1	224434660	224740549	-0.204996646	suppress_segment_too_large
CNIH4	1	224356850	224379459	-0.204996646	suppress_segment_too_large
CNKSR1	1	26177403	26189886	0.048749694	PASS
CNKSR2	23	21372801	21654695	0.158844052	PASS
CNKSR3	6	154387504	154510659	0.033894706	PASS

CNMD	13	52703264	52739812	-0.384313056	PASS
CNN1	19	11538717	11550323	-0.107594294	PASS
CNN2	19	1026581	1039068	-0.071973357	PASS
CNN3	1	94896949	94927278	0.079255572	PASS
CNNM1	10	99329099	99394330	-0.414937136	PASS
CNNM2	10	102918293	103090221	-0.414937136	PASS
CNNM3	2	96816245	96833911	0.064122364	PASS
CNNM4	2	96760902	96811891	0.064122364	PASS
CNOT1	16	58519951	58629886	-0.423061015	PASS
CNOT10	3	32685145	32773875	0.06149513	PASS
CNOT11	2	101252802	101270316	0.064122364	PASS
CNOT2	12	70242994	70354993	-0.578548701	PASS
CNOT3	19	54137717	54155708	0.142581352	PASS
CNOT4	7	135361795	135510127	-0.712149877	PASS
CNOT6	5	180494412	180578405	0.165341871	suppress_segment_too_large
CNOT6L	4	77713387	77819615	-0.677982248	PASS
CNOT7	8	17224964	17246878	-0.311940419	PASS
CNOT8	5	154857553	154876793	-0.393084436	PASS
CNOT9	2	218568580	218597080	0.011001208	PASS
CNP	17	41966741	41977731	0.041294512	PASS
CNPPD1	2	219171897	219178106	0.011001208	PASS
CNPY1	7	155474206	155555450	-0.77630473	PASS
CNPY2	12	56309842	56316336	-0.743220499	PASS
CNPY3	6	42929192	42939287	0.028532667	PASS
CNPY4	7	100119613	100125511	-0.710463272	PASS
CNR1	6	88139864	88166359	-0.355603029	PASS
CNR2	1	23870526	23913362	0.048749694	PASS
CNRIP1	2	68284171	68320051	-0.46122572	PASS
CNST	1	246566444	246668584	-0.145670469	suppress_likely_unfocal_large_gain
CNTD1	17	42798792	42811587	0.041294512	PASS
CNTD2	19	40222208	40226697	0.048917043	PASS
CNTF	11	58622673	58625733	0.27006553	suppress_segment_too_large
CNTFR	9	34551432	34590140	0.073960965	PASS
CNTLN	9	17134982	17503923	0.073960965	PASS
CNTN1	12	40692442	41072418	-0.46813528	PASS
CNTN2	1	205042937	205078284	-0.204996646	suppress_segment_too_large
CNTN3	3	74262568	74521140	-0.727808231	PASS
CNTN4	3	2098813	3057956	0.06149513	PASS
CNTN5	11	99020953	100358885	0.32805343	suppress_segment_too_large
CNTN6	3	1092576	1404217	0.06149513	PASS
CNTNAP1	17	42682613	42699814	0.041294512	PASS
CNTNAP2	7	146116002	148420998	-0.712149877	PASS
CNTNAP3	9	39072767	39288315	0.073960965	PASS
CNTNAP3	9	41890314	42129510	0.073960965	PASS
CNTNAP3	9	61330717	61453030	0.073960965	PASS
CNTNAP4	16	76277278	76559238	-0.423061015	PASS
CNTNAP5	2	124025287	124915287	-0.359440172	PASS
CNTRL	9	121074863	121177610	0.073960965	PASS
CNTROB	17	7932101	7949918	0.06854245	PASS
COA1	7	43608456	43729717	-0.72421718	PASS
COA3	17	42795147	42798704	0.041294512	PASS
COA4	11	73872667	73876988	0.064535884	PASS
COA5	2	98599310	98608515	0.064122364	PASS
COA6	1	234373456	234384049	-0.204996646	suppress_segment_too_large

COA7	1	52684451	52698366	-0.736943052	PASS
COASY	17	42561467	42566277	0.041294512	PASS
COBL	7	51016212	51316818	-0.701511252	PASS
COBLL1	2	164653624	164843679	0.319987345	PASS
COCH	14	30874514	30895065	0.053252507	PASS
COG1	17	73192632	73208507	0.051798665	PASS
COG2	1	230642489	230693982	-0.204996646	suppress_segment_too_large
COG3	13	45464898	45536630	-0.398748891	PASS
COG4	16	70480568	70523565	-0.423061015	PASS
COG5	7	107201555	107564514	-0.712149877	PASS
COG6	13	39655627	39791665	-0.398748891	PASS
COG7	16	23388493	23453180	0.053595371	PASS
COG8	16	69320140	69339667	-0.423061015	PASS
COIL	17	56938187	56961054	0.051798665	PASS
COL10A1	6	116118923	116158747	-0.355603029	PASS
COL11A1	1	102876467	103108872	0.079255572	PASS
COL11A2	6	33162681	33192499	0.028532667	PASS
COL12A1	6	75084326	75206051	-0.250122709	PASS
COL13A1	10	69801867	69964275	0.032351597	PASS
COL14A1	8	120059780	120372036	0.493344802	suppress_segment_too_large
COL15A1	9	98943179	99070792	0.073960965	PASS
COL16A1	1	31652247	31704319	0.048749694	PASS
COL17A1	10	104031286	104085957	-0.414937136	PASS
COL18A1	21	45405137	45513720	0.209983559	PASS
COL19A1	6	69866571	70209976	-0.250122709	PASS
COL1A1	17	50183289	50201632	0.051798665	PASS
COL1A2	7	94394561	94431232	-0.710463272	PASS
COL20A1	20	63293186	63334851	-0.172056771	suppress_segment_too_large
COL21A1	6	56056590	56394094	0.239805577	suppress_segment_too_large
COL22A1	8	138588235	138914006	0.493344802	suppress_segment_too_large
COL23A1	5	178237618	178590555	0.165341871	suppress_segment_too_large
COL24A1	1	85729233	86156943	0.587598296	PASS
COL25A1	4	108808725	109302752	-0.677982248	PASS
COL26A1	7	101362820	101559024	-0.712149877	PASS
COL27A1	9	114155560	114312511	0.073960965	PASS
COL28A1	7	7356203	7535853	-0.72421718	PASS
COL2A1	12	47972965	48004554	-0.743220499	PASS
COL3A1	2	188974320	189012746	-0.030005025	PASS
COL4A1	13	110148963	110307233	-0.426822582	PASS
COL4A2	13	110305812	110513209	-0.426822582	PASS
COL4A3	2	227164565	227314792	0.011001208	PASS
COL4A3BP	5	75356345	75512138	-0.393084436	PASS
COL4A4	2	227002711	227164453	0.011001208	PASS
COL4A5	23	108439844	108697545	0.158844052	PASS
COL4A6	23	108155607	108439497	0.158844052	PASS
COL5A1	9	134641774	134844843	0.073960965	PASS
COL5A2	2	189031896	189225312	-0.030005025	PASS
COL5A3	19	9959561	10010471	-0.107594294	PASS
COL6A1	21	45981737	46005050	0.209983559	PASS
COL6A2	21	46098097	46132849	0.209983559	PASS
COL6A3	2	237324003	237414375	0.011001208	PASS
COL6A5	3	130345516	130484844	0.06434429	PASS
COL6A6	3	130560334	130678155	0.06434429	PASS
COL7A1	3	48564073	48595267	-0.727808231	PASS

COL8A1	3	99638475	99799226	0.22470242	PASS
COL8A2	1	36095236	36125220	0.048749694	PASS
COL9A1	6	70215061	70303083	-0.250122709	PASS
COL9A2	1	40300487	40317813	0.048749694	PASS
COL9A3	20	62816244	62841159	-0.172056771	suppress_segment_too_large
COLCA2	11	111298555	111308735	-0.431650509	PASS
COLEC10	8	118995452	119106582	0.493344802	suppress_segment_too_large
COLEC11	2	3594832	3644644	0.034263343	PASS
COLEC12	18	316740	500722	0.044197172	PASS
COLGALT	19	17555594	17583162	-0.069222905	PASS
COLGALT	1	183929854	184037729	0.088103245	PASS
COLQ	3	15450133	15521751	0.06149513	PASS
COMMD1	2	61888724	62147247	-0.46122572	PASS
COMMD1	5	116084991	116412762	-0.393084436	PASS
COMMD2	3	149738470	149752499	0.02267528	PASS
COMMD3	10	22315974	22320308	0.075711544	PASS
COMMD3	10	22316388	22329542	0.075711544	PASS
COMMD4	15	75335891	75343224	-0.759380635	PASS
COMMD5	8	144841042	144853736	0.699132336	PASS
COMMD6	13	75525219	75549439	-0.384313056	PASS
COMMD7	20	32702691	32743997	-0.172056771	suppress_segment_too_large
COMMD8	4	47450796	47463719	0.115781418	suppress_segment_too_large
COMMD9	11	36269284	36289449	-0.359426047	PASS
COMP	19	18782773	18791314	-0.069222905	PASS
COMT	22	19941607	19969975	-0.740245994	PASS
COMTD1	10	75233969	75236030	0.032351597	PASS
COP1	1	175944831	176207493	0.088103245	PASS
COPA	1	160288686	160343400	0.088103245	PASS
COPB1	11	14443440	14500027	-0.39835217	PASS
COPB2	3	139355600	139389732	0.06434429	PASS
COPE	19	18899514	18919397	-0.069222905	PASS
COPG1	3	129249606	129277773	0.06434429	PASS
COPG2	7	130506238	130668748	-0.712149877	PASS
COPRS	17	31851864	31859337	0.041294512	PASS
COPS2	15	49106068	49155661	-0.423772929	PASS
COPS3	17	17246820	17281293	0.06854245	PASS
COPS4	4	83034447	83075818	-0.677982248	PASS
COPS5	8	67043079	67083783	0.182873287	suppress_segment_too_large
COPS6	7	100088954	100092200	-0.710463272	PASS
COPS7A	12	6723741	6731875	-0.015029783	PASS
COPS7B	2	231781671	231809254	0.011001208	PASS
COPS8	2	237085312	237100466	0.011001208	PASS
COPS9	2	240126563	240136807	0.011001208	PASS
COPZ1	12	54301202	54351849	-0.743220499	PASS
COPZ2	17	48026167	48038030	0.051798665	PASS
COQ10A	12	56266858	56270966	-0.743220499	PASS
COQ10B	2	197453423	197475308	0.011001208	PASS
COQ2	4	83261536	83284914	-0.677982248	PASS
COQ3	6	99369400	99394204	-0.355603029	PASS
COQ4	9	128322536	128334072	0.073960965	PASS
COQ5	12	120503274	120534434	0.028722739	PASS
COQ6	14	73949926	73963670	0.053252507	PASS
COQ7	16	19067599	19080095	0.053595371	PASS
COQ8A	1	226897536	226987545	-0.204996646	suppress_segment_too_large

COQ8B	19	40691529	40718207	0.048917043	PASS
COQ9	16	57447425	57461275	-0.423061015	PASS
CORIN	4	47593998	47838106	0.115781418	suppress_segment_too_large
CORO1A	16	30182827	30189076	0.053595371	PASS
CORO1B	11	67435510	67443821	0.064535884	PASS
CORO1C	12	108645109	108731596	0.028722739	PASS
CORO2A	9	98120975	98192640	0.073960965	PASS
CORO2B	15	68578969	68727806	-0.759380635	PASS
CORO6	17	29614756	29622907	0.041294512	PASS
CORO7	16	4354542	4425705	0.053595371	PASS
CORO7-P	16	4340251	4420494	0.053595371	PASS
CORT	1	10449719	10451902	0.364796772	PASS
COTL1	16	84565594	84618077	-0.423061015	PASS
COX10	17	14069496	14208677	0.06854245	PASS
COX11	17	54951902	54968785	0.051798665	PASS
COX14	12	50111979	50120457	-0.743220499	PASS
COX15	10	99711844	99732100	-0.414937136	PASS
COX16	14	70325081	70359731	0.053252507	PASS
COX17	3	119654513	119677454	0.06434429	PASS
COX18	4	73052362	73069755	0.115781418	suppress_segment_too_large
COX19	7	898778	975599	-0.72421718	PASS
COX20	1	244835322	244845057	-0.145670469	suppress_likely_unfocal_large_gain
COX4I1	16	85798633	85807044	-0.423061015	PASS
COX4I2	20	31637888	31645006	-0.172056771	suppress_segment_too_large
COX5A	15	74919791	74938168	-0.759380635	PASS
COX5B	2	97646040	97648383	0.064122364	PASS
COX6A1	12	120438090	120440742	0.028722739	PASS
COX6A2	16	31427731	31428428	0.053595371	PASS
COX6B1	19	35648223	35658861	0.044838622	PASS
COX6B2	19	55349306	55354814	0.142581352	PASS
COX6C	8	99873200	99894062	0.355469066	suppress_segment_too_large
COX7A1	19	36150922	36152869	0.396324882	PASS
COX7A2	6	75237675	75250323	-0.250122709	PASS
COX7A2L	2	42333546	42425088	0.034263343	PASS
COX7B	23	77899438	77907373	0.158844052	PASS
COX7B2	4	46734827	46909235	0.115781418	suppress_segment_too_large
COX7C	5	86617904	86620962	-0.393084436	PASS
COX8A	11	63974607	63976543	0.064535884	PASS
COX8C	14	93347191	93348356	-0.155273506	suppress_segment_too_large
CP	3	149162410	149222055	0.02267528	PASS
CPA1	7	130380339	130388114	-0.712149877	PASS
CPA2	7	130266827	130289798	-0.712149877	PASS
CPA3	3	148865256	148897196	0.02267528	PASS
CPA4	7	130293134	130324180	-0.712149877	PASS
CPA5	7	130344816	130368730	-0.712149877	PASS
CPA6	8	67422038	67746385	0.182873287	suppress_segment_too_large
CPAMD8	19	16892947	17026815	-0.069222905	PASS
CPB1	3	148791102	148860187	0.02267528	PASS
CPB2	13	46053195	46105033	-0.398748891	PASS
CPD	17	30378905	30469989	0.041294512	PASS
CPE	4	165361194	165498320	0.142431244	suppress_segment_too_large
CPEB1	15	82543201	82648861	-0.759380635	PASS
CPEB2	4	15002674	15070153	-0.358623662	PASS
CPEB3	10	92046692	92291087	-0.414937136	PASS

CPEB4	5	173888280	173961976	0.165341871	suppress_segment_too_large
CPED1	7	120988677	121297444	-0.712149877	PASS
CPLANE1	5	37106228	37249428	0.073527871	PASS
CPLANE2	1	16231700	16237162	0.048749694	PASS
CPLX1	4	784957	826198	-0.358623662	PASS
CPLX2	5	175796310	175884020	0.165341871	suppress_segment_too_large
CPLX3	15	74826547	74831802	-0.759380635	PASS
CPLX4	18	59275156	59318649	-0.330515409	PASS
CPM	12	68842197	68971570	-0.743220499	PASS
CPN1	10	100042193	100081877	-0.414937136	PASS
CPN2	3	194339765	194351328	0.02267528	PASS
CPNE1	20	35626031	35664956	-0.172056771	suppress_segment_too_large
CPNE2	16	57092537	57148367	-0.423061015	PASS
CPNE3	8	86514427	86561498	0.617295349	suppress_segment_too_large
CPNE4	3	131533555	132285410	0.06434429	PASS
CPNE5	6	36740775	36840002	0.028532667	PASS
CPNE6	14	24070837	24078100	0.053252507	PASS
CPNE7	16	89575768	89597246	-0.423061015	PASS
CPNE8	12	38646822	38907430	0.49032213	suppress_segment_too_large
CPNE9	3	9703807	9729908	0.06149513	PASS
CPO	2	206939554	206969474	0.011001208	PASS
CPOX	3	98579446	98593723	0.22470242	PASS
CPPED1	16	12659799	12804017	0.053595371	PASS
CPQ	8	96645227	97149654	0.355469066	suppress_segment_too_large
CPS1	2	210477682	210679107	0.011001208	PASS
CPSF1	8	144393229	144409349	0.699132336	PASS
CPSF2	14	92121937	92172145	-0.155273506	suppress_segment_too_large
CPSF3	2	9423568	9473101	0.034263343	PASS
CPSF4	7	99438922	99457371	-0.710463272	PASS
CPSF4L	17	73248449	73262352	0.051798665	PASS
CPSF6	12	69239537	69274358	-0.743220499	PASS
CPSF7	11	61402641	61430031	0.064535884	PASS
CPT1A	11	68754620	68844410	0.064535884	PASS
CPT1B	22	50568861	50578465	-0.953096644	PASS
CPT1C	19	49690898	49713731	0.002743503	PASS
CPT2	1	53196429	53214197	-0.736943052	PASS
CPTP	1	1324756	1328897	-0.358281697	PASS
CPVL	7	28995231	29195451	-0.72421718	PASS
CPXCR1	23	88747225	88754785	0.158844052	PASS
CPXM1	20	2794069	2800637	-0.172056771	suppress_segment_too_large
CPXM2	10	123706207	123940267	0.073090211	PASS
CPZ	4	8592660	8619759	-0.358623662	PASS
CR1	1	207496147	207641765	-0.204996646	suppress_segment_too_large
CR1L	1	207645113	207738416	-0.204996646	suppress_segment_too_large
CR2	1	207454230	207489895	-0.204996646	suppress_segment_too_large
CRABP1	15	78340324	78348230	-0.759380635	PASS
CRABP2	1	156699606	156705816	0.088103245	PASS
CRACR2A	12	3606633	3764819	-0.015029783	PASS
CRACR2B	11	826144	831991	-0.39835217	PASS
CRADD	12	93677375	93894840	0.028722739	PASS
CRAMP1	16	1612325	1677908	0.053595371	PASS
CRAT	9	129094810	129111189	0.073960965	PASS
CRB1	1	197268204	197478455	0.088103245	PASS
CRB2	9	123356170	123380324	0.073960965	PASS

CRB3	19	6463777	6467221	-0.071973357	PASS
CRBN	3	3144628	3179727	0.06149513	PASS
CRCP	7	66114604	66154568	-0.701511252	PASS
CRCT1	1	152514502	152516010	0.088103245	PASS
CREB1	2	207529737	207603431	0.011001208	PASS
CREB3	9	35732335	35737004	0.073960965	PASS
CREB3L1	11	46277661	46321422	0.059795455	PASS
CREB3L2	7	137874979	138002067	-0.712149877	PASS
CREB3L3	19	4153601	4173054	-0.071973357	PASS
CREB3L4	1	153967534	153974363	0.088103245	PASS
CREB5	7	28299321	28825894	-0.72421718	PASS
CREBBP	16	3725054	3880726	0.053595371	PASS
CREBL2	12	12611827	12645108	0.49032213	suppress_segment_too_large
CREBRF	5	173056352	173139284	0.165341871	suppress_segment_too_large
CREBZF	11	85659708	85682908	0.064535884	PASS
CREG1	1	167529117	167553805	0.088103245	PASS
CREG2	2	101345551	101387595	0.064122364	PASS
CRELD1	3	9933822	9945413	0.06149513	PASS
CRELD2	22	49918167	49927540	-0.953096644	PASS
CREM	10	35126791	35212958	0.075711544	PASS
CRH	8	66176382	66178725	0.182873287	suppress_segment_too_large
CRHBP	5	76952713	76981158	-0.393084436	PASS
CRHR1	17	45784280	45835828	0.051798665	PASS
CRHR2	7	30651943	30700129	-0.72421718	PASS
CRIM1	2	36355926	36551135	0.034263343	PASS
CRIP1	14	105486317	105488947	-0.155273506	suppress_segment_too_large
CRIP2	14	105472962	105480170	-0.155273506	suppress_segment_too_large
CRIP3	6	43299710	43308797	0.028532667	PASS
CRIPT	2	46616416	46625742	0.034263343	PASS
CRISP1	6	49834257	49877096	0.239805577	suppress_segment_too_large
CRISP2	6	49692358	49713590	0.239805577	suppress_segment_too_large
CRISP3	6	49727384	49744437	0.239805577	suppress_segment_too_large
CRISPLD1	8	74984515	75034558	0.182873287	suppress_segment_too_large
CRISPLD2	16	84819984	84920768	-0.423061015	PASS
CRK	17	1420689	1463162	0.06854245	PASS
CRKL	22	20917426	20953749	-0.740245994	PASS
CRLF1	19	18572220	18607741	-0.069222905	PASS
CRLF2	23	1187549	1212750	-0.350651546	PASS
CRLF3	17	30769388	30824776	0.041294512	PASS
CRLS1	20	6006090	6040053	-0.172056771	suppress_segment_too_large
CRMP1	4	5748084	5893058	-0.358623662	PASS
CRNKL1	20	20034368	20056046	-0.172056771	suppress_segment_too_large
CRNN	1	152409243	152414263	0.546958914	PASS
CROCC	1	16740273	16972979	0.048749694	PASS
CROCC2	2	240906330	240993311	0.011001208	PASS
CROT	7	87345681	87399795	-0.221864321	PASS
CRP	1	159712289	159714589	0.088103245	PASS
CRTAC1	10	97865000	98030828	-0.414937136	PASS
CRTAM	11	122838500	122872639	-0.431650509	PASS
CRTAP	3	33113979	33147773	0.06149513	PASS
CRTC1	19	18683677	18782333	-0.069222905	PASS
CRTC2	1	153947669	153958625	0.088103245	PASS
CRTC3	15	90529925	90645345	-0.759380635	PASS
CRX	19	47819779	47843330	0.002743503	PASS

CRY1	12	106991364	107093829	0.028722739	PASS
CRY2	11	45847118	45883248	0.059795455	PASS
CRYAA	21	43169008	43172805	0.209983559	PASS
CRYAA2	21	6560714	6564489	0.220071762	PASS
CRYAB	11	111908565	111923722	-0.431650509	PASS
CRYBA1	17	29246863	29254494	0.041294512	PASS
CRYBA2	2	218990189	218993421	0.011001208	PASS
CRYBA4	22	26621964	26630672	-0.740245994	PASS
CRYBB1	22	26599278	26618088	-0.740245994	PASS
CRYBB2	22	25219522	25231869	-0.740245994	PASS
CRYBB3	22	25199850	25207363	-0.740245994	PASS
CRYBG1	6	106360808	106571978	-0.355603029	PASS
CRYBG2	1	26321698	26360080	0.048749694	PASS
CRYBG3	3	97822040	97944963	0.22470242	PASS
CRYGA	2	208160740	208163576	0.011001208	PASS
CRYGB	2	208142573	208146168	0.011001208	PASS
CRYGC	2	208128137	208129830	0.011001208	PASS
CRYGD	2	208121607	208124501	0.011001208	PASS
CRYGN	7	151428835	151440813	-0.712149877	PASS
CRYGS	3	186538441	186546702	0.02267528	PASS
CRYL1	13	20403666	20525873	-0.398748891	PASS
CRYM	16	21238874	21303083	0.053595371	PASS
CRYZ	1	74705482	74733408	0.052232535	PASS
CRYZL1	21	33589341	33643926	0.209983559	PASS
CS	12	56271699	56300392	-0.743220499	PASS
CSAD	12	53157663	53180909	-0.743220499	PASS
CSAG1	23	152727484	152733735	0.158844052	PASS
CSAG3	23	152753921	152760222	0.158844052	PASS
CSDC2	22	41560763	41577741	-0.740245994	PASS
CSDE1	1	114716913	114758676	0.079255572	PASS
CSE1L	20	49046246	49096960	-0.172056771	suppress_segment_too_large
CSF1	1	109910242	109930992	0.079255572	PASS
CSF1R	5	150053291	150113372	-0.393084436	PASS
CSF2	5	132073790	132076170	-0.393084436	PASS
CSF2RA	23	1268800	1310381	-0.350651546	PASS
CSF2RB	22	36913628	36940449	-0.740245994	PASS
CSF3	17	40015361	40017813	0.041294512	PASS
CSF3R	1	36466043	36483278	0.048749694	PASS
CSGALNA	8	19404161	19758029	-0.311940419	PASS
CSGALNA	10	43138486	43185308	-0.389033546	PASS
CSH1	17	63894909	63896661	0.051798665	PASS
CSH2	17	63872012	63873766	0.051798665	PASS
CSHL1	17	63909597	63918838	0.051798665	PASS
CSK	15	74782057	74803198	-0.759380635	PASS
CSKMT	11	62665309	62668496	0.064535884	PASS
CSMD1	8	2935353	4994972	-0.311940419	PASS
CSMD2	1	33513999	34165842	0.048749694	PASS
CSMD3	8	112222928	113437099	0.70944438	suppress_segment_too_large
CSN1S1	4	69931081	69946574	0.115781418	suppress_segment_too_large
CSN2	4	69955256	69961007	0.115781418	suppress_segment_too_large
CSN3	4	70242588	70251428	0.115781418	suppress_segment_too_large
CSNK1A1	5	149492197	149551552	-0.393084436	PASS
CSNK1A1	13	37103259	37105664	-0.398748891	PASS
CSNK1D	17	82239023	82273731	0.051798665	PASS

CSNK1E	22	38290691	38318084	-0.740245994	PASS
CSNK1G1	15	64165517	64356259	-0.759380635	PASS
CSNK1G2	19	1941149	1981338	-0.071973357	PASS
CSNK1G3	5	123512099	123617045	-0.393084436	PASS
CSNK2A1	20	472498	543835	-0.172056771	suppress_segment_too_large
CSNK2A2	16	58157907	58197920	-0.423061015	PASS
CSNK2A3	11	11351942	11353357	-0.39835217	PASS
CSNK2B	6	31665236	31670343	0.028532667	PASS
CSPG4	15	75674322	75712848	-0.759380635	PASS
CSPG5	3	47562239	47580792	-0.727808231	PASS
CSPP1	8	67062426	67196263	0.182873287	suppress_segment_too_large
CSRNP1	3	39141855	39154562	-0.727808231	PASS
CSRNP2	12	51061205	51083664	-0.743220499	PASS
CSRNP3	2	165469647	165689407	0.319987345	PASS
CSRP1	1	201483530	201509456	-0.204996646	suppress_segment_too_large
CSRP2	12	76858715	76879060	0.271127429	suppress_segment_too_large
CSRP3	11	19182037	19210571	-0.39835217	PASS
CST1	20	23747553	23751268	-0.172056771	suppress_segment_too_large
CST11	20	23450403	23452857	-0.172056771	suppress_segment_too_large
CST2	20	23823769	23826731	-0.172056771	suppress_segment_too_large
CST3	20	23626706	23638473	-0.172056771	suppress_segment_too_large
CST4	20	23685640	23689040	-0.172056771	suppress_segment_too_large
CST5	20	23875935	23879750	-0.172056771	suppress_segment_too_large
CST6	11	66011841	66013505	0.064535884	PASS
CST7	20	24949230	24959928	-0.172056771	suppress_segment_too_large
CST8	20	23491101	23496018	-0.172056771	suppress_segment_too_large
CST9	20	23602410	23605876	-0.172056771	suppress_segment_too_large
CST9L	20	23564732	23568749	-0.172056771	suppress_segment_too_large
CSTA	3	122325244	122341972	0.06434429	PASS
CSTB	21	43772511	43776445	0.209983559	PASS
CSTF1	20	56392371	56406369	-0.172056771	suppress_segment_too_large
CSTF2	23	100820359	100840932	0.158844052	PASS
CSTF2T	10	51695487	51699591	-0.389033546	PASS
CSTF3	11	33077188	33162371	-0.359426047	PASS
CSTL1	20	23439685	23444930	-0.172056771	suppress_segment_too_large
CT45A1	23	135713453	135723539	0.158844052	PASS
CT45A10	23	135881063	135889086	0.158844052	PASS
CT45A3	23	135759846	135768191	0.158844052	PASS
CT47B1	23	120872603	120875929	0.158844052	PASS
CT55	23	135156536	135171398	0.158844052	PASS
CT62	15	71110244	71115500	-0.759380635	PASS
CT83	23	116461682	116463003	0.158844052	PASS
CTAG2	23	154651972	154653579	0.158844052	PASS
CTAGE1	18	22413601	22417915	-0.330515409	PASS
CTAGE15	7	143571801	143574387	-0.712149877	PASS
CTAGE4	7	144183466	144186053	-0.712149877	PASS
CTAGE6	7	143755089	143757696	-0.712149877	PASS
CTAGE8	7	144266701	144269288	-0.712149877	PASS
CTAGE9	6	131708684	131711017	-0.304168115	PASS
CTBP1	4	1211448	1249953	-0.358623662	PASS
CTBP2	10	124984317	125161170	0.073090211	PASS
CTBS	1	84549606	84574480	0.587598296	PASS
CTC1	17	8224821	8248095	0.06854245	PASS
CTCF	16	67562407	67639185	-0.423061015	PASS

CTCFL	20	57495966	57525652	-0.172056771	suppress_segment_too_large
CTDNEP1	17	7243591	7252491	0.06854245	PASS
CTDP1	18	79679801	79756623	-0.330515409	PASS
CTDSP1	2	218398256	218405941	0.011001208	PASS
CTDSP2	12	57819927	57846739	-0.743220499	PASS
CTDSPL	3	37861960	37984469	-0.727808231	PASS
CTDSPL2	15	44427234	44529038	-0.423772929	PASS
CTF1	16	30896607	30903560	0.053595371	PASS
CTGF	6	131948176	131951373	-0.304168115	PASS
CTH	1	70411218	70439851	0.052232535	PASS
CTHRC1	8	103371515	103382997	0.355469066	suppress_segment_too_large
CTIF	18	48539046	48863217	-0.330515409	PASS
CTLA4	2	203867771	203873965	0.011001208	PASS
CTNNA1	5	138610967	138935034	-0.393084436	PASS
CTNNA2	2	79185231	80648861	-0.46122572	PASS
CTNNA3	10	65912518	67696169	0.032351597	PASS
CTNNAL1	9	108942569	109013529	0.073960965	PASS
CTNNB1	3	41194741	41260096	-0.727808231	PASS
CTNNBIP	1	9848276	9910336	0.364796772	PASS
CTNNBL1	20	37693955	37872129	-0.172056771	suppress_segment_too_large
CTNND1	11	57753243	57819546	0.27006553	suppress_segment_too_large
CTNND2	5	10971840	11904043	0.073527871	PASS
CTNS	17	3636468	3661542	0.06854245	PASS
CTPS1	1	40979335	41012565	0.048749694	PASS
CTPS2	23	16588003	16712936	0.158844052	PASS
CTR9	11	10750987	10801625	-0.39835217	PASS
CTRB1	16	75219000	75226338	-0.423061015	PASS
CTRB2	16	75204096	75207185	-0.423061015	PASS
CTRC	1	15438439	15449242	0.048749694	PASS
CTRL	16	67927640	67932414	-0.423061015	PASS
CTSA	20	45890144	45898820	-0.172056771	suppress_segment_too_large
CTSB	8	11842524	11869448	-0.311940419	PASS
CTSC	11	88293592	88337787	0.064535884	PASS
CTSD	11	1752752	1764573	-0.39835217	PASS
CTSE	1	206009264	206023909	-0.204996646	suppress_segment_too_large
CTSF	11	66563463	66568841	0.064535884	PASS
CTSG	14	24573522	24576260	0.053252507	PASS
CTSH	15	78921058	78949574	-0.759380635	PASS
CTSK	1	150796208	150808323	0.079255572	PASS
CTSL	9	87725519	87731393	0.073960965	PASS
CTSO	4	155924118	155953917	0.142431244	suppress_segment_too_large
CTSS	1	150730196	150765957	0.079255572	PASS
CTSV	9	97029679	97039643	0.073960965	PASS
CTSW	11	65879809	65883741	0.064535884	PASS
CTSZ	20	58995185	59007247	-0.172056771	suppress_segment_too_large
CTTN	11	70398404	70436584	0.064535884	PASS
CTTNBP2	7	117710651	117874139	-0.712149877	PASS
CTTNBP2	1	112396181	112463456	0.079255572	PASS
CTU1	19	51097606	51108370	0.002743503	PASS
CTU2	16	88706463	88715386	-0.423061015	PASS
CTXN1	19	7924485	7926166	-0.071973357	PASS
CTXN2	15	48178122	48203756	-0.423772929	PASS
CTXN3	5	127649044	127658630	-0.393084436	PASS
CTXND1	15	80195484	80252213	-0.759380635	PASS

CTXND2	1	150887136	150913292	0.079255572	PASS
CUBN	10	16823966	17129817	0.075711544	PASS
CUEDC1	17	57861243	57955323	0.051798665	PASS
CUEDC2	10	102423245	102432661	-0.414937136	PASS
CUL1	7	148697914	148801036	-0.712149877	PASS
CUL2	10	35008551	35090642	0.075711544	PASS
CUL3	2	224470150	224585397	0.011001208	PASS
CUL4A	13	113208193	113267108	-0.426822582	PASS
CUL4B	23	120524609	120575794	0.158844052	PASS
CUL5	11	108008733	108107776	-0.431650509	PASS
CUL7	6	43037617	43053945	0.028532667	PASS
CUL9	6	43182175	43224587	0.028532667	PASS
CUTA	6	33416442	33418317	0.028532667	PASS
CUTC	10	99702558	99756134	-0.414937136	PASS
CUX1	7	101815904	102283958	-0.712149877	PASS
CUX2	12	111034024	111350554	0.028722739	PASS
CUZD1	10	122832149	122850793	0.073090211	PASS
CWC15	11	94962622	94973612	0.064535884	PASS
CWC22	2	179944876	180007113	0.162734012	PASS
CWC25	17	38800434	38825481	0.041294512	PASS
CWC27	5	64768930	65018763	-0.393084436	PASS
CWF19L1	10	100232298	100267680	-0.414937136	PASS
CWF19L2	11	107326345	107457844	-0.431650509	PASS
CWH43	4	48986247	49062081	0.115781418	suppress_segment_too_large
CX3CL1	16	57372458	57385048	-0.423061015	PASS
CX3CR1	3	39263494	39281735	-0.727808231	PASS
CXADR	21	17512382	17593579	0.758930684	suppress_segment_too_large
CXCL1	4	73869393	73871242	0.115781418	suppress_segment_too_large
CXCL10	4	76021117	76023497	-0.677982248	PASS
CXCL11	4	76033682	76041415	-0.677982248	PASS
CXCL12	10	44370165	44386493	-0.389033546	PASS
CXCL13	4	77511753	77611834	-0.677982248	PASS
CXCL14	5	135570679	135579279	-0.393084436	PASS
CXCL16	17	4733526	4739922	0.06854245	PASS
CXCL17	19	42428288	42443048	0.048917043	PASS
CXCL2	4	74097035	74099293	0.115781418	suppress_segment_too_large
CXCL3	4	74036589	74038807	0.115781418	suppress_segment_too_large
CXCL5	4	73995642	73998779	0.115781418	suppress_segment_too_large
CXCL6	4	73836497	73849064	0.115781418	suppress_segment_too_large
CXCL8	4	73740506	73743716	0.115781418	suppress_segment_too_large
CXCL9	4	76001275	76007488	-0.677982248	PASS
CXCR1	2	218162845	218166995	0.011001208	PASS
CXCR2	2	218125289	218137253	0.011001208	PASS
CXCR3	23	71615916	71618517	0.158844052	PASS
CXCR4	2	136114349	136118165	-0.359440172	PASS
CXCR5	11	118883766	118897799	-0.431650509	PASS
CXCR6	3	45940933	45948353	-0.727808231	PASS
CXXC1	18	50282343	50288304	-0.330515409	PASS
CXXC4	4	104468312	104494901	-0.677982248	PASS
CXXC5	5	139647299	139683882	-0.393084436	PASS
CXorf21	23	30558824	30577844	0.158844052	PASS
CXorf36	23	45148374	45200901	0.158844052	PASS
CXorf38	23	40626921	40647554	0.158844052	PASS
CXorf40A	23	149540355	149550510	0.158844052	PASS

CXorf40B	23	149929527	149938811	0.158844052	PASS
CXorf56	23	119538149	119565408	0.158844052	PASS
CXorf57	23	106611930	106679442	0.158844052	PASS
CXorf58	23	23907801	23939509	0.158844052	PASS
CXorf65	23	71103889	71106788	0.158844052	PASS
CXorf66	23	139955725	139965520	0.158844052	PASS
CXorf67	23	51406915	51408843	0.158844052	PASS
CYB561	17	63432304	63446378	0.051798665	PASS
CYB561A	11	61348745	61362299	0.064535884	PASS
CYB561D	1	109494052	109502932	0.079255572	PASS
CYB561D	3	50350695	50358460	-0.727808231	PASS
CYB5A	18	74250847	74292016	-0.330515409	PASS
CYB5B	16	69424525	69466266	-0.423061015	PASS
CYB5D1	17	7857746	7862282	0.06854245	PASS
CYB5D2	17	4143168	4187310	0.06854245	PASS
CYB5R1	1	202961869	202967280	-0.204996646	suppress_segment_too_large
CYB5R2	11	7665100	7677222	-0.39835217	PASS
CYB5R3	22	42617840	42649568	-0.740245994	PASS
CYB5R4	6	83859643	83967424	-0.355603029	PASS
CYB5RL	1	54169651	54200036	-0.736943052	PASS
CYBA	16	88643283	88651152	-0.423061015	PASS
CYBB	23	37780011	37813461	0.158844052	PASS
CYBC1	17	82442589	82450829	0.051798665	PASS
CYBRD1	2	171522247	171558133	0.033541467	PASS
CYC1	8	144095027	144097525	0.699132336	PASS
CYCS	7	25120091	25125361	-0.72421718	PASS
CYFIP1	15	22867052	22981063	-0.423772929	PASS
CYFIP2	5	157266079	157395595	0.165341871	suppress_segment_too_large
CYGB	17	76527356	76551175	0.051798665	PASS
CYHR1	8	144449582	144465677	0.699132336	PASS
CYLC1	23	83861126	83886699	0.158844052	PASS
CYLC2	9	102995311	103018488	0.073960965	PASS
CYLD	16	50742050	50801935	0.411512417	PASS
CYP11A1	15	74337759	74367740	-0.759380635	PASS
CYP11B1	8	142872356	142879846	0.699132336	PASS
CYP11B2	8	142910559	142917843	0.699132336	PASS
CYP17A1	10	102830531	102837533	-0.414937136	PASS
CYP19A1	15	51208057	51338610	-0.423772929	PASS
CYP1A1	15	74719542	74725610	-0.759380635	PASS
CYP1A2	15	74748844	74756202	-0.759380635	PASS
CYP1B1	2	38066973	38109902	0.034263343	PASS
CYP20A1	2	203238940	203305611	0.011001208	PASS
CYP21A2	6	32038265	32041670	0.028532667	PASS
CYP24A1	20	54153449	54173973	-0.172056771	suppress_segment_too_large
CYP26A1	10	93073475	93077890	-0.414937136	PASS
CYP26B1	2	72129238	72148038	-0.46122572	PASS
CYP26C1	10	93060808	93069536	-0.414937136	PASS
CYP27A1	2	218781749	218815293	0.011001208	PASS
CYP27B1	12	57762334	57768986	-0.743220499	PASS
CYP27C1	2	127184120	127220078	-0.359440172	PASS
CYP2A13	19	41088472	41096195	0.048917043	PASS
CYP2A6	19	40843538	40850447	0.048917043	PASS
CYP2A7	19	40875439	40882752	0.048917043	PASS
CYP2B6	19	40991250	41018398	0.048917043	PASS

CYP2C18	10	94683621	94736190	-0.414937136	PASS
CYP2C19	10	94762681	94853205	-0.414937136	PASS
CYP2C8	10	95036772	95069497	-0.414937136	PASS
CYP2C9	10	94938658	94989391	-0.414937136	PASS
CYP2D6	22	42126499	42130906	-0.740245994	PASS
CYP2E1	10	133520406	133561220	0.073090211	PASS
CYP2F1	19	41114432	41128366	0.048917043	PASS
CYP2J2	1	59893308	59926790	-0.736943052	PASS
CYP2R1	11	14877440	14892252	-0.39835217	PASS
CYP2S1	19	41193049	41207539	0.048917043	PASS
CYP2U1	4	107931369	107953457	-0.677982248	PASS
CYP2W1	7	983199	989640	-0.72421718	PASS
CYP39A1	6	46549580	46652830	0.239805577	suppress_segment_too_large
CYP3A4	7	99756960	99784265	-0.710463272	PASS
CYP3A43	7	99828013	99866102	-0.710463272	PASS
CYP3A5	7	99648194	99680026	-0.710463272	PASS
CYP3A7	7	99684957	99735196	-0.710463272	PASS
CYP3A7-C	7	99685226	99735093	-0.710463272	PASS
CYP46A1	14	99684304	99727301	-0.155273506	suppress_segment_too_large
CYP4A11	1	46929177	46941484	-0.736943052	PASS
CYP4A22	1	47137435	47149741	-0.736943052	PASS
CYP4B1	1	46757838	46819413	-0.736943052	PASS
CYP4F11	19	15912367	15934867	-0.069222905	PASS
CYP4F12	19	15672757	15697174	-0.069222905	PASS
CYP4F2	19	15878023	15898120	-0.069222905	PASS
CYP4F22	19	15508493	15552317	-0.069222905	PASS
CYP4F3	19	15640897	15662825	-0.069222905	PASS
CYP4F8	19	15615218	15630638	-0.069222905	PASS
CYP4V2	4	186191520	186213456	0.275137421	PASS
CYP4X1	1	47023568	47050751	-0.736943052	PASS
CYP4Z1	1	47067488	47118319	-0.736943052	PASS
CYP51A1	7	92112151	92134803	-0.710463272	PASS
CYP7A1	8	58490178	58500236	0.182873287	suppress_segment_too_large
CYP7B1	8	64587763	64798761	0.182873287	suppress_segment_too_large
CYP8B1	3	42856005	42876165	-0.727808231	PASS
CYR61	1	85580761	85583962	0.587598296	PASS
CYREN	7	135092363	135170795	-0.712149877	PASS
CYS1	2	10056780	10080944	0.034263343	PASS
CYSLTR1	23	78271464	78327691	0.158844052	PASS
CYSLTR2	13	48653711	48711226	-0.384313056	PASS
CYSRT1	9	137224635	137226311	0.073960965	PASS
CYSTM1	5	140174642	140282052	-0.393084436	PASS
CYTH1	17	78674048	78782297	0.051798665	PASS
CYTH2	19	48469032	48482314	0.002743503	PASS
CYTH3	7	6161776	6272644	-0.72421718	PASS
CYTH4	22	37282027	37315345	-0.740245994	PASS
CYTIP	2	157414619	157488961	-0.30549516	PASS
CYTL1	4	5014586	5019472	-0.358623662	PASS
CYYR1	21	26466209	26573284	0.209983559	PASS
DAAM1	14	59188646	59371405	0.053252507	PASS
DAAM2	6	39792298	39904877	0.028532667	PASS
DAB1	1	56994778	58546734	-0.736943052	PASS
DAB2	5	39371675	39462300	-0.284712224	PASS
DAB2IP	9	121567057	121785530	0.073960965	PASS

DACH1	13	71437966	71867192	-0.384313056	PASS
DACH2	23	86148458	86832604	0.158844052	PASS
DACT1	14	58633967	58648321	0.053252507	PASS
DACT2	6	168292830	168319754	0.033894706	PASS
DACT3	19	46647612	46661138	0.002743503	PASS
DAD1	14	22564905	22589269	0.053252507	PASS
DAG1	3	49468703	49535618	-0.727808231	PASS
DAGLA	11	61680433	61747001	0.064535884	PASS
DAGLB	7	6409126	6484190	-0.72421718	PASS
DALRD3	3	49015488	49022293	-0.727808231	PASS
DAND5	19	12965159	12974762	-0.069222905	PASS
DAO	12	108858932	108901043	0.028722739	PASS
DAOA	13	105465867	105491034	-0.426822582	PASS
DAP	5	10679230	10761272	0.073527871	PASS
DAP3	1	155687960	155739010	0.088103245	PASS
DAPK1	9	87497228	87708633	0.073960965	PASS
DAPK2	15	63907036	64072033	-0.759380635	PASS
DAPK3	19	3958453	3971123	-0.071973357	PASS
DAPL1	2	158795317	158862781	0.054749241	PASS
DAPP1	4	99816833	99870154	-0.677982248	PASS
DARS	2	135906677	135986100	-0.359440172	PASS
DARS2	1	173824568	173858808	0.088103245	PASS
DAW1	2	227871054	227924344	0.011001208	PASS
DAXX	6	33318558	33323016	0.028532667	PASS
DAZAP1	19	1407569	1435687	-0.071973357	PASS
DAZAP2	12	51238292	51271362	-0.743220499	PASS
DAZL	3	16586792	16670306	0.06149513	PASS
DBF4	7	87876216	87909541	-0.221864321	PASS
DBF4B	17	44708608	44752264	0.051798665	PASS
DBH	9	133635348	133659344	0.073960965	PASS
DBI	2	119366921	119372560	-0.359440172	PASS
DBN1	5	177456608	177474401	0.165341871	suppress_segment_too_large
DBNDD1	16	90004865	90020128	-0.423061015	PASS
DBNDD2	20	45406057	45410610	-0.172056771	suppress_segment_too_large
DBNL	7	44044640	44069456	-0.72421718	PASS
DBP	19	48630030	48637438	0.002743503	PASS
DBR1	3	138161012	138174949	0.06434429	PASS
DBT	1	100186919	100249834	0.079255572	PASS
DBX1	11	20156155	20160613	-0.39835217	PASS
DBX2	12	45014672	45051099	-0.46813528	PASS
DCAF1	3	51395867	51500002	-0.727808231	PASS
DCAF10	9	37800502	37867666	0.073960965	PASS
DCAF11	14	24114195	24125242	0.053252507	PASS
DCAF12	9	34086387	34127399	0.073960965	PASS
DCAF12L1	23	126549383	126552851	0.158844052	PASS
DCAF12L2	23	126163499	126166097	0.158844052	PASS
DCAF13	8	103414714	103443453	0.70944438	suppress_segment_too_large
DCAF15	19	13952492	13961449	-0.069222905	PASS
DCAF16	4	17800655	17810758	-0.358623662	PASS
DCAF17	2	171434217	171485052	0.033541467	PASS
DCAF4	14	72926332	72959703	0.053252507	PASS
DCAF4L1	4	41981696	41986467	-0.753159364	PASS
DCAF4L2	8	87870743	87874068	0.617295349	suppress_segment_too_large
DCAF5	14	69050881	69153150	0.053252507	PASS

DCAF6	1	167935783	168075843	0.088103245	PASS
DCAF7	17	63550461	63594266	0.051798665	PASS
DCAF8	1	160215715	160262531	0.088103245	PASS
DCAF8L1	23	27977993	27981449	0.158844052	PASS
DCAF8L2	23	27590382	27748821	0.158844052	PASS
DCAKD	17	45023340	45061109	0.051798665	PASS
DCANP1	5	135444214	135447348	-0.393084436	PASS
DCBLD1	6	117453817	117569858	-0.355603029	PASS
DCBLD2	3	98795941	98901689	0.22470242	PASS
DCC	18	52340172	53535903	-0.330515409	PASS
DCD	12	54644591	54648493	-0.743220499	PASS
DCDC1	11	30830369	31369810	-0.359426047	PASS
DCDC2	6	24171756	24358052	0.069043418	PASS
DCDC2B	1	32209094	32216196	0.048749694	PASS
DCDC2C	2	3703592	3847411	0.034263343	PASS
DCHS1	11	6621323	6655854	-0.39835217	PASS
DCHS2	4	154231742	154495570	0.142431244	suppress_segment_too_large
DCK	4	70992538	71030914	0.115781418	suppress_segment_too_large
DCLK1	13	35768652	36131306	-0.398748891	PASS
DCLK2	4	150078274	150257457	0.142431244	suppress_segment_too_large
DCLK3	3	36712422	36764349	-0.727808231	PASS
DCLRE1A	10	113834725	113854383	0.073090211	PASS
DCLRE1B	1	113905141	113914086	0.079255572	PASS
DCLRE1C	10	14897359	14954432	0.075711544	PASS
DCN	12	91140484	91183123	0.271127429	suppress_segment_too_large
DCP1A	3	53283428	53347610	-0.727808231	PASS
DCP1B	12	1946054	2004535	-0.015029783	PASS
DCP2	5	112976702	113020970	-0.393084436	PASS
DCPS	11	126303752	126345754	-0.431650509	PASS
DCST1	1	155033824	155050930	0.088103245	PASS
DCST2	1	155018520	155033781	0.088103245	PASS
DCSTAMI	8	104339087	104356689	0.70944438	suppress_segment_too_large
DCT	13	94436808	94479682	-0.384313056	PASS
DCTD	4	182890060	182917936	-0.453876349	PASS
DCTN1	2	74361154	74392087	-0.46122572	PASS
DCTN2	12	57530102	57547331	-0.743220499	PASS
DCTN3	9	34613545	34620523	0.073960965	PASS
DCTN4	5	150708440	150759109	-0.393084436	PASS
DCTN5	16	23641392	23677455	0.053595371	PASS
DCTN6	8	30156297	30183640	-0.311940419	PASS
DCTPP1	16	30423619	30430075	0.053595371	PASS
DCUN1D1	3	182938074	182985953	0.02267528	PASS
DCUN1D2	13	113455819	113490952	-0.426822582	PASS
DCUN1D3	16	20854925	20900384	0.053595371	PASS
DCUN1D4	4	51843000	51916837	0.115781418	suppress_segment_too_large
DCUN1D5	11	103062076	103092215	0.32805343	suppress_segment_too_large
DCX	23	111293779	111412429	0.158844052	PASS
DCXR	17	82035136	82037732	0.051798665	PASS
DDA1	19	17309518	17323301	-0.069222905	PASS
DDAH1	1	85318481	85578363	0.587598296	PASS
DDAH2	6	31727038	31730617	0.028532667	PASS
DDB1	11	61299451	61342596	0.064535884	PASS
DDB2	11	47214465	47239240	0.059795455	PASS
DDC	7	50458436	50565457	-0.701511252	PASS

DDHD1	14	53036745	53153282	0.053252507	PASS
DDHD2	8	38225218	38275558	0.182873287	suppress_segment_too_large
DDI1	11	104036580	104039188	0.32805343	suppress_segment_too_large
DDI2	1	15617500	15669044	0.048749694	PASS
DDIAS	11	82899975	82958277	0.064535884	PASS
DDIT3	12	57516588	57521737	-0.743220499	PASS
DDIT4	10	72273920	72276036	0.032351597	PASS
DDIT4L	4	100185870	100190782	-0.677982248	PASS
DDN	12	48995149	48999309	-0.743220499	PASS
DDO	6	110391771	110415562	-0.355603029	PASS
DDOST	1	20651767	20661544	0.048749694	PASS
DDR1	6	30876421	30900156	0.069043418	PASS
DDR2	1	162631373	162787400	0.088103245	PASS
DDRGK1	20	3190350	3204685	-0.172056771	suppress_segment_too_large
DDT	22	23971365	23979828	-0.740245994	PASS
DDTL	22	23966901	23972532	-0.740245994	PASS
DDX1	2	15591178	15631111	0.034263343	PASS
DDX10	11	108665025	108940930	-0.431650509	PASS
DDX11	12	31073845	31104791	0.49032213	suppress_segment_too_large
DDX17	22	38483440	38507660	-0.740245994	PASS
DDX18	2	117814650	117832379	-0.359440172	PASS
DDX19A	16	70346829	70373383	-0.423061015	PASS
DDX19B	16	70289663	70335283	-0.423061015	PASS
DDX20	1	111755245	111768016	0.079255572	PASS
DDX21	10	68956128	68985073	0.032351597	PASS
DDX23	12	48829764	48852842	-0.743220499	PASS
DDX24	14	94048291	94081245	-0.155273506	suppress_segment_too_large
DDX25	11	125903348	125943702	-0.431650509	PASS
DDX27	20	49219295	49244077	-0.172056771	suppress_segment_too_large
DDX28	16	68021274	68023442	-0.423061015	PASS
DDX31	9	132592997	132670401	0.073960965	PASS
DDX39A	19	14408819	14419383	-0.069222905	PASS
DDX39B	6	31530219	31542448	0.028532667	PASS
DDX3X	23	41333284	41364472	0.158844052	PASS
DDX4	5	55738017	55817157	-0.284712224	PASS
DDX41	5	177511577	177517469	0.165341871	suppress_segment_too_large
DDX42	17	63773603	63819317	0.051798665	PASS
DDX43	6	73394748	73417569	-0.250122709	PASS
DDX46	5	134758771	134855133	-0.393084436	PASS
DDX47	12	12813316	12829981	0.49032213	suppress_segment_too_large
DDX49	19	18919675	18928633	-0.069222905	PASS
DDX5	17	64499616	64508199	0.051798665	PASS
DDX50	10	68901278	68946847	0.032351597	PASS
DDX51	12	132136594	132144335	0.028722739	PASS
DDX52	17	37609739	37643464	0.041294512	PASS
DDX53	23	22999961	23003589	0.158844052	PASS
DDX54	12	113157174	113185479	0.028722739	PASS
DDX55	12	123602077	123620941	0.028722739	PASS
DDX56	7	44565417	44575051	-0.72421718	PASS
DDX58	9	32455705	32526324	0.073960965	PASS
DDX59	1	200623896	200669969	-0.204996646	suppress_segment_too_large
DDX6	11	118747766	118791149	-0.431650509	PASS
DDX60	4	168216293	168318807	0.142431244	suppress_segment_too_large
DDX60L	4	168356735	168537786	0.142431244	suppress_segment_too_large

DEAF1	11	644233	706715	-0.39835217	PASS
Dec1	9	114850968	115402644	0.073960965	PASS
DECR1	8	90001405	90052092	0.617295349	suppress_segment_too_large
DECR2	16	401826	412487	0.053595371	PASS
DEDD	1	161120974	161132688	0.088103245	PASS
DEDD2	19	42198598	42220140	0.048917043	PASS
DEF6	6	35297852	35321771	0.028532667	PASS
DEF8	16	89947925	89968060	-0.423061015	PASS
DEFA3	8	7015869	7018301	-0.311940419	PASS
DEFA4	8	6935822	6938338	-0.311940419	PASS
DEFA5	8	7055304	7056734	-0.311940419	PASS
DEFA6	8	6924693	6926076	-0.311940419	PASS
DEFB1	8	6870575	6878022	-0.311940419	PASS
DEFB104A	8	7836471	7841242	-0.311940419	PASS
DEFB105A	8	7821966	7823889	-0.311940419	PASS
DEFB108E	11	71833200	71837710	0.064535884	PASS
DEFB110	6	50009138	50021981	0.239805577	suppress_segment_too_large
DEFB112	6	50043575	50048651	0.239805577	suppress_segment_too_large
DEFB113	6	49968677	49969625	0.239805577	suppress_segment_too_large
DEFB114	6	49960249	49964105	0.239805577	suppress_segment_too_large
DEFB115	20	31257664	31259632	-0.172056771	suppress_segment_too_large
DEFB116	20	31303212	31308585	-0.172056771	suppress_segment_too_large
DEFB118	20	31368618	31373923	-0.172056771	suppress_segment_too_large
DEFB119	20	31377164	31390603	-0.172056771	suppress_segment_too_large
DEFB121	20	31404845	31412838	-0.172056771	suppress_segment_too_large
DEFB123	20	31440519	31450257	-0.172056771	suppress_segment_too_large
DEFB124	20	31465506	31476757	-0.172056771	suppress_segment_too_large
DEFB125	20	87250	97094	-0.172056771	suppress_segment_too_large
DEFB126	20	142369	145751	-0.172056771	suppress_segment_too_large
DEFB127	20	157470	159163	-0.172056771	suppress_segment_too_large
DEFB128	20	187853	189681	-0.172056771	suppress_segment_too_large
DEFB129	20	227258	229886	-0.172056771	suppress_segment_too_large
DEFB131A	4	9444534	9450514	-0.358623662	PASS
DEFB131E	11	71878453	71884561	0.064535884	PASS
DEFB132	20	257736	261096	-0.172056771	suppress_segment_too_large
DEFB133	6	49946021	49950265	0.239805577	suppress_segment_too_large
DEFB134	8	11993174	11996312	-0.311940419	PASS
DEFB135	8	11982321	11984590	-0.311940419	PASS
DEFB136	8	11973937	11974599	-0.311940419	PASS
DEFB4A	8	7894629	7896711	-0.311940419	PASS
DEFB4B	8	7414860	7416863	-0.311940419	PASS
DEGS1	1	224175756	224193441	-0.204996646	suppress_segment_too_large
DEGS2	14	100143957	100160163	-0.155273506	suppress_segment_too_large
DEK	6	18223868	18264823	0.069043418	PASS
DELE1	5	141923808	141942047	-0.393084436	PASS
DENND1A	9	123379654	123930152	0.073960965	PASS
DENND1B	1	197504748	197775696	0.088103245	PASS
DENND1C	19	6467207	6482557	-0.071973357	PASS
DENND2A	7	140518420	140673993	-0.712149877	PASS
DENND2C	1	114582848	114670422	0.079255572	PASS
DENND2D	1	111187174	111204535	0.079255572	PASS
DENND3	8	141117278	141195808	0.493344802	suppress_segment_too_large
DENND4A	15	65658046	65792293	-0.759380635	PASS
DENND4B	1	153929501	153946696	0.088103245	PASS

DENND4C	9	19230435	19373545	0.073960965	PASS
DENND5A	11	9138825	9265390	-0.39835217	PASS
DENND5B	12	31382223	31591097	0.49032213	suppress_segment_too_large
DENND6A	3	57625457	57693089	-0.727808231	PASS
DENND6B	22	50309030	50327060	-0.953096644	PASS
DENR	12	122752774	122771064	0.028722739	PASS
DEPDC1	1	68474152	68497221	0.052232535	PASS
DEPDC1B	5	60596912	60700190	0.07724032	PASS
DEPDC4	12	100203669	100267079	0.028722739	PASS
DEPDC5	22	31753867	31908033	-0.740245994	PASS
DEPDC7	11	33015864	33033582	-0.359426047	PASS
DEPP1	10	44970981	44978810	-0.389033546	PASS
DEPTOR	8	119873717	120050913	0.493344802	suppress_segment_too_large
DERA	12	15911172	16037282	0.49032213	suppress_segment_too_large
DERL1	8	123013164	123042423	0.493344802	suppress_segment_too_large
DERL2	17	5471251	5486811	0.06854245	PASS
DERL3	22	23834503	23839128	-0.740245994	PASS
DES	2	219418377	219426739	0.011001208	PASS
DESI1	22	41598028	41621096	-0.740245994	PASS
DESI2	1	244652935	244709033	-0.145670469	suppress_likely_unfocal_large_gain
DET1	15	88494440	88546675	-0.759380635	PASS
DEUP1	11	93329971	93438487	0.064535884	PASS
DEXI	16	10928891	10942460	0.053595371	PASS
DFFA	1	10456522	10472526	0.364796772	PASS
DFFB	1	3857267	3885429	-0.358281697	PASS
DGAT1	8	144314584	144326910	0.699132336	PASS
DGAT2	11	75759512	75801535	0.064535884	PASS
DGAT2L6	23	70177483	70205545	0.158844052	PASS
DGCR2	22	19036282	19122454	-0.740245994	PASS
DGCR6	22	18906028	18914238	-0.740245994	PASS
DGCR6L	22	20314276	20320080	-0.740245994	PASS
DGCR8	22	20080232	20111877	-0.740245994	PASS
DGKA	12	55927319	55954027	-0.743220499	PASS
DGKB	7	14145049	14974777	-0.72421718	PASS
DGKD	2	233354507	233472104	0.011001208	PASS
DGKE	17	56834099	56869567	0.051798665	PASS
DGKG	3	186105668	186362237	0.02267528	PASS
DGKH	13	42040036	42256578	-0.398748891	PASS
DGKI	7	137381037	137847092	-0.712149877	PASS
DGKK	23	50365409	50470738	0.158844052	PASS
DGKQ	4	958887	986895	-0.358623662	PASS
DGKZ	11	46332905	46380554	0.059795455	PASS
DGLUCY	14	91060333	91225632	-0.155273506	suppress_segment_too_large
DGUOK	2	73926826	73958961	-0.46122572	PASS
DHCR24	1	54849627	54887271	-0.736943052	PASS
DHCR7	11	71428193	71452868	0.064535884	PASS
DHDDS	1	26432282	26471294	0.048749694	PASS
DHDH	19	48933682	48944969	0.002743503	PASS
DHFR	5	80626228	80654983	-0.393084436	PASS
DHFR2	3	94047836	94063389	0.22470242	PASS
DHH	12	49086656	49094819	-0.743220499	PASS
DHODH	16	72008588	72027664	-0.423061015	PASS
DHPS	19	12675717	12681902	-0.069222905	PASS
DHRS1	14	24290598	24299833	0.053252507	PASS

DHRS11	17	36591798	36600806	0.041294512	PASS
DHRS12	13	51767993	51804157	-0.384313056	PASS
DHRS13	17	28897781	28903071	0.041294512	PASS
DHRS2	14	23630115	23645639	0.053252507	PASS
DHRS3	1	12567910	12617731	0.048749694	PASS
DHRS4	14	23953586	23969279	0.053252507	PASS
DHRS4L2	14	23969874	24006408	0.053252507	PASS
DHRS7	14	60144120	60169856	0.053252507	PASS
DHRS7B	17	21123364	21193265	0.041294512	PASS
DHRS7C	17	9771434	9791297	0.06854245	PASS
DHRS9	2	169064789	169096167	0.033541467	PASS
DHRSX	23	2219516	2502805	-0.350651546	PASS
DHTKD1	10	12068972	12123225	0.075711544	PASS
DHX15	4	24517441	24584550	-0.358623662	PASS
DHX16	6	30653119	30673037	0.069043418	PASS
DHX29	5	55256245	55307722	-0.284712224	PASS
DHX30	3	47802909	47850195	-0.727808231	PASS
DHX32	10	125836337	125896436	0.073090211	PASS
DHX33	17	5440912	5469060	0.06854245	PASS
DHX34	19	47349281	47382704	0.002743503	PASS
DHX35	20	38962299	39039723	-0.172056771	suppress_segment_too_large
DHX36	3	154272546	154324497	0.02267528	PASS
DHX37	12	124946825	124989122	0.028722739	PASS
DHX38	16	72093562	72112912	-0.423061015	PASS
DHX40	17	59565525	59608345	0.051798665	PASS
DHX57	2	38797729	38875934	0.034263343	PASS
DHX58	17	42101404	42112733	0.041294512	PASS
DHX8	17	43483865	43610338	0.051798665	PASS
DHX9	1	182839369	182887751	0.088103245	PASS
DIABLO	12	122207662	122227534	0.028722739	PASS
DIAPH1	5	141515016	141619055	-0.393084436	PASS
DIAPH2	23	96684663	97604997	0.158844052	PASS
DIAPH3	13	59665583	60163987	-0.384313056	PASS
DICER1	14	95086228	95158010	-0.155273506	suppress_segment_too_large
DIDO1	20	62877738	62937952	-0.172056771	suppress_segment_too_large
DIMT1	5	62387254	62403939	0.07724032	PASS
DIO1	1	53891239	53911086	-0.736943052	PASS
DIO2	14	80197527	80387757	-0.155273506	suppress_segment_too_large
DIO3	14	101561351	101563452	-0.155273506	suppress_segment_too_large
DIP2A	21	46458899	46569852	0.209983559	PASS
DIP2B	12	50504985	50748667	-0.743220499	PASS
DIP2C	10	274190	689668	0.075711544	PASS
DIRAS1	19	2714567	2721418	-0.071973357	PASS
DIRAS2	9	90609832	90643105	0.073960965	PASS
DIRAS3	1	68045896	68051631	0.052232535	PASS
DIRC1	2	188733738	188790104	-0.030005025	PASS
DIRC2	3	122794795	122881139	0.06434429	PASS
DIS3	13	72752169	72782096	-0.384313056	PASS
DIS3L	15	66293217	66333898	-0.759380635	PASS
DIS3L2	2	231961245	232344350	0.011001208	PASS
DISC1	1	231626815	232041272	-0.204996646	suppress_segment_too_large
DISP1	1	222872271	223005995	-0.204996646	suppress_segment_too_large
DISP2	15	40358235	40378639	-0.423772929	PASS
DISP3	1	11479166	11537584	0.364796772	PASS

DIXDC1	11	111927144	112022584	-0.431650509	PASS
DKC1	23	154762742	154777689	0.158844052	PASS
DKK1	10	52314296	52318042	-0.389033546	PASS
DKK2	4	106921802	107283806	-0.677982248	PASS
DKK3	11	11963106	12009769	-0.39835217	PASS
DKK4	8	42374068	42377232	0.182873287	suppress_segment_too_large
DKKL1	19	49361783	49375116	0.002743503	PASS
DLAT	11	112024814	112064390	-0.431650509	PASS
DLC1	8	13083361	13604610	-0.311940419	PASS
DLD	7	107890970	107931730	-0.712149877	PASS
DLEC1	3	38039205	38124025	-0.727808231	PASS
DLEU7	13	50711008	50843939	-0.384313056	PASS
DLG1	3	197042560	197299300	0.02267528	PASS
DLG2	11	83455012	85627922	0.064535884	PASS
DLG3	23	70444861	70505490	0.158844052	PASS
DLG4	17	7187169	7219841	0.06854245	PASS
DLG5	10	77790791	77926526	0.032351597	PASS
DLGAP1	18	3496032	4455335	0.044197172	PASS
DLGAP2	8	737596	1708474	-0.311940419	PASS
DLGAP3	1	34865436	34929585	0.048749694	PASS
DLGAP4	20	36306336	36528637	-0.172056771	suppress_segment_too_large
DLGAP5	14	55148112	55191678	0.053252507	PASS
DLK1	14	100725705	100738224	-0.155273506	suppress_segment_too_large
DLK2	6	43450352	43456632	0.028532667	PASS
DLL1	6	170282206	170306565	0.033894706	PASS
DLL3	19	39498895	39508481	0.048917043	PASS
DLL4	15	40929333	40939073	-0.423772929	PASS
DLST	14	74881891	74903745	-0.155273506	suppress_segment_too_large
DLX1	2	172084740	172089677	0.033541467	PASS
DLX2	2	172099439	172102900	0.033541467	PASS
DLX3	17	49990005	49995224	0.051798665	PASS
DLX4	17	49968970	49974959	0.051798665	PASS
DLX5	7	97020392	97024950	-0.710463272	PASS
DLX6	7	97005548	97011039	-0.710463272	PASS
DMAC1	9	7796490	7888380	0.073960965	PASS
DMAC2	19	41431318	41440717	0.048917043	PASS
DMAP1	1	44213455	44220681	-0.736943052	PASS
DMBT1	10	122560665	122643736	0.073090211	PASS
DMBX1	1	46506996	46514226	-0.736943052	PASS
DMC1	22	38518949	38570286	-0.740245994	PASS
DMD	23	31097677	33339441	0.158844052	PASS
DMGDH	5	78997606	79236038	-0.393084436	PASS
DMKN	19	35497220	35513658	0.044838622	PASS
DMP1	4	87650307	87664361	-0.677982248	PASS
DMPK	19	45769717	45782552	0.002743503	PASS
DMRT1	9	841690	969090	0.073960965	PASS
DMRT2	9	1049858	1057552	0.073960965	PASS
DMRT3	9	976964	991731	0.073960965	PASS
DMRTA1	9	22446841	22455740	0.073960965	PASS
DMRTA2	1	50417550	50423500	-0.736943052	PASS
DMRTB1	1	53459399	53467488	-0.736943052	PASS
DMRTC1	23	72872025	72943814	0.158844052	PASS
DMRTC1E	23	72777009	72848802	0.158844052	PASS
DMRTC2	19	41844743	41852333	0.048917043	PASS

DMTF1	7	87152361	87196337	-0.221864321	PASS
DMTN	8	22048995	22082527	-0.311940419	PASS
DMWD	19	45782947	45792802	0.002743503	PASS
DMXL1	5	119037772	119249138	-0.393084436	PASS
DMXL2	15	51447711	51622833	-0.423772929	PASS
DNA2	10	68414064	68472121	0.032351597	PASS
DNAAF1	16	84145287	84178767	-0.423061015	PASS
DNAAF2	14	49625174	49635230	0.053252507	PASS
DNAAF3	19	55158661	55166722	0.142581352	PASS
DNAAF4	15	55410525	55508234	-0.759380635	PASS
DNAAF5	7	726701	786475	-0.72421718	PASS
DNAH1	3	52316319	52400491	-0.727808231	PASS
DNAH10	12	123762188	123936206	0.028722739	PASS
DNAH11	7	21543215	21901839	-0.72421718	PASS
DNAH12	3	57293699	57544344	-0.727808231	PASS
DNAH14	1	224896262	225399292	-0.204996646	suppress_segment_too_large
DNAH17	17	78423697	78577394	0.051798665	PASS
DNAH2	17	7717354	7833744	0.06854245	PASS
DNAH3	16	20933111	21159441	0.053595371	PASS
DNAH5	5	13690331	13944543	0.073527871	PASS
DNAH6	2	84516455	84819589	0.064122364	PASS
DNAH7	2	195737703	196068812	0.011001208	PASS
DNAH8	6	38715341	39030529	0.028532667	PASS
DNAH9	17	11598431	11969748	0.06854245	PASS
DNAI1	9	34457414	34520989	0.073960965	PASS
DNAI2	17	74274247	74314884	0.051798665	PASS
DNAJA1	9	33025211	33039907	0.073960965	PASS
DNAJA2	16	46955362	46973788	0.053595371	PASS
DNAJA3	16	4425805	4456775	0.053595371	PASS
DNAJA4	15	78264086	78282196	-0.759380635	PASS
DNAJB1	19	14514770	14529770	-0.069222905	PASS
DNAJB11	3	186567403	186585800	0.02267528	PASS
DNAJB12	10	72332830	72355230	0.032351597	PASS
DNAJB13	11	73950319	73970366	0.064535884	PASS
DNAJB14	4	99896248	99946726	-0.677982248	PASS
DNAJB2	2	219279267	219286900	0.011001208	PASS
DNAJB4	1	77979175	78017964	0.052232535	PASS
DNAJB5	9	34989641	34998900	0.073960965	PASS
DNAJB6	7	157335381	157417439	-0.77630473	PASS
DNAJB7	22	40859549	40862126	-0.740245994	PASS
DNAJB8	3	128462439	128467248	0.06434429	PASS
DNAJB9	7	108569568	108574850	-0.712149877	PASS
DNAJC1	10	21756537	22003769	0.075711544	PASS
DNAJC10	2	182716041	182794464	-0.120408457	PASS
DNAJC11	1	6634168	6701924	0.364796772	PASS
DNAJC12	10	67796665	67838166	0.032351597	PASS
DNAJC13	3	132417526	132539032	0.06434429	PASS
DNAJC14	12	55820960	55830824	-0.743220499	PASS
DNAJC15	13	43023203	43114224	-0.398748891	PASS
DNAJC16	1	15526813	15592379	0.048749694	PASS
DNAJC17	15	40765155	40807478	-0.423772929	PASS
DNAJC18	5	139408588	139444491	-0.393084436	PASS
DNAJC19	3	180983709	180989774	0.02267528	PASS
DNAJC2	7	103312474	103344873	-0.712149877	PASS

DNAJC21	5	34929559	34958964	0.073527871	PASS
DNAJC22	12	49346917	49357546	-0.743220499	PASS
DNAJC24	11	31369840	31431849	-0.359426047	PASS
DNAJC25	9	111631352	111654351	0.073960965	PASS
DNAJC25-	9	111631386	111670229	0.073960965	PASS
DNAJC27	2	24943636	24972094	0.034263343	PASS
DNAJC28	21	33485530	33491720	0.209983559	PASS
DNAJC3	13	95677139	95794989	-0.384313056	PASS
DNAJC30	7	73680969	73683453	-0.701511252	PASS
DNAJC4	11	64230278	64234286	0.064535884	PASS
DNAJC5	20	63895182	63936031	-0.172056771	suppress_segment_too_large
DNAJC5B	8	66021560	66100526	0.182873287	suppress_segment_too_large
DNAJC5G	2	27275421	27281499	0.034263343	PASS
DNAJC6	1	65248219	65415869	0.052232535	PASS
DNAJC7	17	41976433	42021376	0.041294512	PASS
DNAJC8	1	28199456	28233025	0.048749694	PASS
DNAJC9	10	73183362	73248862	0.032351597	PASS
DNAL1	14	73644875	73703732	0.053252507	PASS
DNAL4	22	38778508	38794198	-0.740245994	PASS
DNALI1	1	37556919	37566857	0.048749694	PASS
DNASE1	16	3611728	3680143	0.053595371	PASS
DNASE1L	23	154401238	154412112	0.158844052	PASS
DNASE1L	16	2235816	2238711	0.053595371	PASS
DNASE1L	3	58192257	58214697	-0.727808231	PASS
DNASE2	19	12875211	12881468	-0.069222905	PASS
DNASE2B	1	84398532	84415018	0.587598296	PASS
DND1	5	140670794	140673586	-0.393084436	PASS
DNER	2	229357629	229714558	0.011001208	PASS
DNHD1	11	6497260	6593758	-0.39835217	PASS
DNLZ	9	136359480	136363789	0.073960965	PASS
DNM1	9	128191655	128255248	0.073960965	PASS
DNM1L	12	32679200	32745650	0.49032213	suppress_segment_too_large
DNM2	19	10718079	10833488	-0.107594294	PASS
DNM3	1	171841498	172418466	0.088103245	PASS
DNMBP	10	99875577	100009919	-0.414937136	PASS
DNMT1	19	10133345	10231286	-0.107594294	PASS
DNMT3A	2	25227855	25342590	0.034263343	PASS
DNMT3B	20	32762385	32809356	-0.172056771	suppress_segment_too_large
DNMT3L	21	44246339	44262216	0.209983559	PASS
DNPEP	2	219373527	219400022	0.011001208	PASS
DNPH1	6	43225629	43229484	0.028532667	PASS
DNTT	10	96304396	96338564	-0.414937136	PASS
DNTTIP1	20	45791937	45811427	-0.172056771	suppress_segment_too_large
DNTTIP2	1	93866283	93879918	0.079255572	PASS
DOC2A	16	30005509	30023270	0.053595371	PASS
DOC2B	17	142789	181636	0.06854245	PASS
DOCK1	10	126905409	127452517	0.073090211	PASS
DOCK10	2	224765090	225042445	0.011001208	PASS
DOCK11	23	118495898	118686163	0.158844052	PASS
DOCK2	5	169637247	170083382	0.165341871	suppress_segment_too_large
DOCK3	3	50675241	51384198	-0.727808231	PASS
DOCK4	7	111726110	112206411	-0.712149877	PASS
DOCK5	8	25184723	25418082	-0.311940419	PASS
DOCK6	19	11199295	11262481	-0.107594294	PASS

DOCK7	1	62454298	62688368	0.052232535	PASS
DOCK8	9	214854	465259	0.073960965	PASS
DOCK9	13	98793429	99086625	-0.384313056	PASS
DOHH	19	3490822	3500940	-0.071973357	PASS
DOK1	2	74549026	74557554	-0.46122572	PASS
DOK2	8	21908873	21913860	-0.311940419	PASS
DOK3	5	177501907	177511274	0.165341871	suppress_segment_too_large
DOK4	16	57471922	57487327	-0.423061015	PASS
DOK5	20	54475597	54651171	-0.172056771	suppress_segment_too_large
DOK6	18	69401055	69849087	-0.330515409	PASS
DOK7	4	3463311	3501473	-0.358623662	PASS
DOLK	9	128945530	128947619	0.073960965	PASS
DOLPP1	9	129081100	129090438	0.073960965	PASS
DONSON	21	33559542	33588708	0.209983559	PASS
DOP1A	6	83067666	83171350	-0.250122709	PASS
DOP1B	21	36156782	36294274	0.209983559	PASS
DOT1L	19	2164149	2232578	-0.071973357	PASS
DPAGT1	11	119096503	119108331	-0.431650509	PASS
DPCD	10	101570560	101609668	-0.414937136	PASS
DPEP1	16	89613308	89638456	-0.423061015	PASS
DPEP2	16	67987394	68000586	-0.423061015	PASS
DPEP2NB	16	68013436	68015911	-0.423061015	PASS
DPEP3	16	67975663	67980829	-0.423061015	PASS
DPF1	19	38211006	38229714	0.048917043	PASS
DPF2	11	65333754	65353249	0.064535884	PASS
DPF3	14	72619296	72894116	0.053252507	PASS
DPH1	17	2030110	2043430	0.06854245	PASS
DPH2	1	43970000	43973369	-0.736943052	PASS
DPH3	3	16257978	16264972	0.06149513	PASS
DPH5	1	100989623	101026088	0.079255572	PASS
DPH6	15	35217345	35546193	-0.423772929	PASS
DPH7	9	137554904	137578935	0.073960965	PASS
DPM1	20	50934867	50958555	-0.172056771	suppress_segment_too_large
DPM2	9	127935099	127938484	0.073960965	PASS
DPM3	1	155139891	155140595	0.088103245	PASS
DPP10	2	114442299	115845752	0.040971718	PASS
DPP3	11	66480013	66509657	0.064535884	PASS
DPP4	2	161992241	162074542	0.319987345	PASS
DPP6	7	153887097	154894285	-0.77630473	PASS
DPP7	9	137110542	137115177	0.073960965	PASS
DPP8	15	65442463	65517704	-0.759380635	PASS
DPP9	19	4675224	4724673	-0.071973357	PASS
DPPA2	3	109293788	109316517	0.22470242	PASS
DPPA3	12	7711454	7717559	-0.015029783	PASS
DPPA4	3	109326141	109337572	0.22470242	PASS
DPPA5	6	73353062	73354295	-0.250122709	PASS
DPRX	19	53632056	53637009	0.142581352	PASS
DPT	1	168695459	168729264	0.088103245	PASS
DPY19L1	7	34928876	35038271	-0.72421718	PASS
DPY19L2	12	63558913	63668939	-0.743220499	PASS
DPY19L3	19	32405543	32485895	0.044838622	PASS
DPY19L4	8	94719703	94793836	0.355469066	suppress_segment_too_large
DPY30	2	31867809	32039812	0.034263343	PASS
DPYD	1	97077743	97995000	0.079255572	PASS

DPYS	8	104330324	104467053	0.70944438	suppress_segment_too_large
DPYSL2	8	26514022	26658178	-0.311940419	PASS
DPYSL3	5	147390811	147510056	-0.393084436	PASS
DPYSL4	10	132186900	132205776	0.073090211	PASS
DPYSL5	2	26847747	26950351	0.034263343	PASS
DQX1	2	74518131	74526336	-0.46122572	PASS
DR1	1	93345888	93369498	0.079255572	PASS
DRAM1	12	101877351	102012130	0.028722739	PASS
DRAM2	1	111117333	111140216	0.079255572	PASS
DRAP1	11	65919257	65921561	0.064535884	PASS
DRAXIN	1	11691729	11725857	0.364796772	PASS
DRC1	2	26401916	26456711	0.034263343	PASS
DRC3	17	17972813	18016889	0.06854245	PASS
DRC7	16	57694793	57731805	-0.423061015	PASS
DRD1	5	175440039	175444208	0.165341871	suppress_segment_too_large
DRD2	11	113409615	113475691	-0.431650509	PASS
DRD3	3	114128652	114199407	0.06434429	PASS
DRD4	11	637293	640706	-0.39835217	PASS
DRD5	4	9781680	9784009	-0.358623662	PASS
DRG1	22	31399523	31530634	-0.740245994	PASS
DRG2	17	18087886	18107971	0.06854245	PASS
DRGX	10	49364181	49396016	-0.389033546	PASS
DRICH1	22	23608452	23632321	-0.740245994	PASS
DROSHA	5	31400497	31532196	0.073527871	PASS
DRP2	23	101219769	101264497	0.158844052	PASS
DSC1	18	31129236	31162856	-0.330515409	PASS
DSC2	18	31058840	31102522	-0.330515409	PASS
DSC3	18	30990008	31042815	-0.330515409	PASS
DSCAM	21	40010999	40847139	0.209983559	PASS
DSCAML1	11	117427773	117817525	-0.431650509	PASS
DSCC1	8	119833976	119856010	0.493344802	suppress_segment_too_large
DSE	6	116254173	116444860	-0.355603029	PASS
DSEL	18	67506582	67516980	-0.330515409	PASS
DSG1	18	31318089	31357029	-0.330515409	PASS
DSG2	18	31498043	31549008	-0.330515409	PASS
DSG3	18	31447795	31478702	-0.330515409	PASS
DSG4	18	31376777	31414912	-0.330515409	PASS
DSN1	20	36751791	36773818	-0.172056771	suppress_segment_too_large
DSP	6	7541575	7586717	0.069043418	PASS
DSPP	4	87608553	87616910	-0.677982248	PASS
DST	6	56457987	56954628	0.239805577	suppress_segment_too_large
DSTN	20	17569863	17609919	-0.172056771	suppress_segment_too_large
DSTYK	1	205142505	205211566	-0.204996646	suppress_segment_too_large
DTD1	20	18587893	18766644	-0.172056771	suppress_segment_too_large
DTD2	14	31446036	31457510	0.053252507	PASS
DTHD1	4	36281622	36345756	-0.753159364	PASS
DTL	1	212035553	212107400	-0.204996646	suppress_segment_too_large
DTNA	18	34493290	34891844	-0.330515409	PASS
DTNB	2	25377198	25673647	0.034263343	PASS
DTNBP1	6	15522801	15663058	0.069043418	PASS
DTWD1	15	49620980	49656232	-0.423772929	PASS
DTWD2	5	118837322	118988545	-0.393084436	PASS
DTX1	12	113056709	113098028	0.028722739	PASS
DTX2	7	76461676	76505995	-0.701511252	PASS

DTX3	12	57604622	57609804	-0.743220499	PASS
DTX3L	3	122564238	122575203	0.06434429	PASS
DTX4	11	59171430	59208587	0.27006553	suppress_segment_too_large
DUOX1	15	45129933	45165576	-0.423772929	PASS
DUOX2	15	45092650	45114344	-0.423772929	PASS
DUOXA1	15	45117367	45129938	-0.423772929	PASS
DUOXA2	15	45114321	45118421	-0.423772929	PASS
DUPD1	10	75037836	75058514	0.032351597	PASS
DUS1L	17	82057506	82065887	0.051798665	PASS
DUS2	16	67987746	68079320	-0.423061015	PASS
DUS3L	19	5784832	5791238	-0.071973357	PASS
DUS4L	7	107563484	107578464	-0.712149877	PASS
DUSP1	5	172768090	172771195	0.165341871	suppress_segment_too_large
DUSP10	1	221701424	221742176	-0.204996646	suppress_segment_too_large
DUSP11	2	73762184	73780157	-0.46122572	PASS
DUSP12	1	161749758	161757238	0.088103245	PASS
DUSP13	10	75094432	75109221	0.032351597	PASS
DUSP14	17	37489831	37513501	0.041294512	PASS
DUSP15	20	31847637	31870747	-0.172056771	suppress_segment_too_large
DUSP16	12	12474210	12562383	0.49032213	suppress_segment_too_large
DUSP18	22	30652051	30667890	-0.740245994	PASS
DUSP19	2	183078559	183100005	-0.120408457	PASS
DUSP2	2	96143166	96145440	0.064122364	PASS
DUSP21	23	44844004	44844888	0.158844052	PASS
DUSP22	6	291630	351355	0.069043418	PASS
DUSP23	1	159780932	159782543	0.088103245	PASS
DUSP26	8	33591332	33600106	-0.311940419	PASS
DUSP27	1	167094045	167129165	0.088103245	PASS
DUSP28	2	240560054	240564014	0.011001208	PASS
DUSP3	17	43766121	43778988	0.051798665	PASS
DUSP4	8	29333064	29350668	-0.311940419	PASS
DUSP5	10	110497838	110511544	0.073090211	PASS
DUSP6	12	89347232	89353271	0.271127429	suppress_segment_too_large
DUSP7	3	52048919	52056550	-0.727808231	PASS
DUSP8	11	1554044	1571920	-0.39835217	PASS
DUSP9	23	153642492	153651326	0.158844052	PASS
DUT	15	48331011	48343373	-0.423772929	PASS
DUXA	19	57154021	57167443	0.142581352	PASS
DVL1	1	1335276	1349350	-0.358281697	PASS
DVL2	17	7225341	7234545	0.06854245	PASS
DVL3	3	184155311	184173614	0.02267528	PASS
DXO	6	31969810	31972292	0.028532667	PASS
DYDC1	10	80336105	80356755	0.032351597	PASS
DYDC2	10	80344745	80368073	0.032351597	PASS
DYM	18	49041474	49461347	-0.330515409	PASS
DYNAP	18	54587757	54599493	-0.330515409	PASS
DYNC1H1	14	101964510	102056443	-0.155273506	suppress_segment_too_large
DYNC1I1	7	95772506	96110322	-0.710463272	PASS
DYNC1I2	2	171687409	171748420	0.033541467	PASS
DYNC1LI	3	32525971	32570874	0.06149513	PASS
DYNC1LI	16	66720893	66751798	-0.423061015	PASS
DYNC2H1	11	103109410	103479863	0.32805343	suppress_segment_too_large
DYNC2LI	2	43774039	43810010	0.034263343	PASS
DYNLL1	12	120469850	120498493	0.028722739	PASS

DYNLL2	17	58083415	58095536	0.051798665	PASS
DYNLRB1	20	34516409	34540958	-0.172056771	suppress_segment_too_large
DYNLRB2	16	80540734	80550760	-0.423061015	PASS
DYNLT1	6	158636474	158644739	0.033894706	PASS
DYNLT3	23	37836757	37847637	0.158844052	PASS
DYRK1A	21	37365573	37526358	0.209983559	PASS
DYRK1B	19	39825350	39834201	0.048917043	PASS
DYRK2	12	67648338	67665406	-0.743220499	PASS
DYRK3	1	206635536	206684419	-0.204996646	suppress_segment_too_large
DYRK4	12	4562204	4615302	-0.015029783	PASS
DYSF	2	71453722	71686768	-0.46122572	PASS
DYTN	2	206651621	206718396	0.011001208	PASS
DZANK1	20	18383367	18467281	-0.172056771	suppress_segment_too_large
DZIP1	13	95578202	95644703	-0.384313056	PASS
DZIP1L	3	138061990	138115818	0.06434429	PASS
DZIP3	3	108589682	108694846	0.22470242	PASS
E2F1	20	33675683	33686404	-0.172056771	suppress_segment_too_large
E2F2	1	23506430	23531220	0.048749694	PASS
E2F3	6	20401906	20493715	0.069043418	PASS
E2F4	16	67192169	67198918	-0.423061015	PASS
E2F5	8	85177225	85217158	0.617295349	suppress_segment_too_large
E2F6	2	11444375	11466177	0.034263343	PASS
E2F7	12	77021247	77065580	0.271127429	suppress_segment_too_large
E2F8	11	19224063	19241620	-0.39835217	PASS
E4F1	16	2223566	2235742	0.053595371	PASS
EAF1	3	15427355	15450635	0.06149513	PASS
EAF2	3	121835183	121886526	0.06434429	PASS
EAPP	14	34515929	34539711	0.053252507	PASS
EARS2	16	23522014	23557731	0.053595371	PASS
EBAG9	8	109539711	109565996	0.70944438	suppress_segment_too_large
EBF1	5	158695916	159099761	0.165341871	suppress_segment_too_large
EBF2	8	25841730	26045397	-0.311940419	PASS
EBF3	10	129835283	129963841	0.073090211	PASS
EBF4	20	2692878	2760108	-0.172056771	suppress_segment_too_large
EBI3	19	4229498	4237531	-0.071973357	PASS
EBLN1	10	22208814	22210021	0.075711544	PASS
EBLN2	3	73061659	73063337	-0.727808231	PASS
EBNA1BP	1	43164175	43270936	-0.736943052	PASS
EBP	23	48521158	48528716	0.158844052	PASS
EBPL	13	49660723	49691475	-0.384313056	PASS
ECD	10	73130155	73169055	0.032351597	PASS
ECE1	1	21217247	21345572	0.048749694	PASS
ECE2	3	184276011	184293031	0.02267528	PASS
ECEL1	2	232479827	232487828	0.011001208	PASS
ECH1	19	38815422	38832005	0.048917043	PASS
ECHDC1	6	127288710	127343609	-0.304168115	PASS
ECHDC2	1	52895910	52927212	-0.736943052	PASS
ECHDC3	10	11742366	11764070	0.075711544	PASS
ECHS1	10	133362480	133373689	0.073090211	PASS
ECI1	16	2239395	2252300	0.053595371	PASS
ECI2	6	4115689	4135597	0.069043418	PASS
ECM1	1	150508062	150513789	0.079255572	PASS
ECM2	9	92493554	92536655	0.073960965	PASS
ECPAS	9	111360692	111484745	0.073960965	PASS

ECSCR	5	139448556	139462743	-0.393084436	PASS
ECSIT	19	11505916	11529174	-0.107594294	PASS
ECT2	3	172750682	172821474	0.02267528	PASS
ECT2L	6	138795926	138904070	0.033894706	PASS
EDA	23	69616067	70039469	0.158844052	PASS
EDA2R	23	66595637	66639298	0.158844052	PASS
EDAR	2	108894471	108989372	0.040971718	PASS
EDARADI	1	236348257	236502915	-0.204996646	suppress_segment_too_large
EDC3	15	74630558	74696292	-0.759380635	PASS
EDC4	16	67873023	67884503	-0.423061015	PASS
EDDM3A	14	20745892	20748380	0.053252507	PASS
EDDM3B	14	20768427	20770948	0.053252507	PASS
EDEM1	3	5187646	5219957	0.06149513	PASS
EDEM2	20	35115357	35147364	-0.172056771	suppress_segment_too_large
EDEM3	1	184690231	184754913	0.088103245	PASS
EDF1	9	136862119	136866286	0.073960965	PASS
EDIL3	5	83940554	84384793	-0.393084436	PASS
EDN1	6	12290363	12297194	0.069043418	PASS
EDN2	1	41478775	41484673	-0.736943052	PASS
EDN3	20	59300427	59325992	-0.172056771	suppress_segment_too_large
EDNRA	4	147480917	147544954	0.142431244	suppress_segment_too_large
EDNRB	13	77895481	77975529	-0.384313056	PASS
EDRF1	10	125719515	125764143	0.073090211	PASS
EEA1	12	92770637	92929331	0.271127429	suppress_segment_too_large
EED	11	86244544	86278813	0.064535884	PASS
EEF1A1	6	73515750	73523797	-0.250122709	PASS
EEF1A2	20	63488012	63499322	-0.172056771	suppress_segment_too_large
EEF1AKM	13	20728731	20773958	-0.398748891	PASS
EEF1AKM	10	124748149	124791870	0.073090211	PASS
EEF1AKM	12	57771492	57782541	-0.743220499	PASS
EEF1AKM	3	184249650	184259585	0.02267528	PASS
EEF1AKM	3	184249695	184293031	0.02267528	PASS
EEF1B2	2	206159585	206162928	0.011001208	PASS
EEF1D	8	143579697	143599541	0.699132336	PASS
EEF1E1	6	8073360	8102578	0.069043418	PASS
EEF1E1-B	6	8015726	8102530	0.069043418	PASS
EEF1G	11	62559601	62574086	0.064535884	PASS
EEF2	19	3976056	3985469	-0.071973357	PASS
EEF2K	16	22206282	22288732	0.053595371	PASS
EEF2KMT	16	5084304	5097808	0.053595371	PASS
EEFSEC	3	128153454	128408646	0.06434429	PASS
EEPD1	7	36153149	36301543	-0.72421718	PASS
EFCAB1	8	48710789	48735311	0.182873287	suppress_segment_too_large
EFCAB10	7	105565120	105600875	-0.712149877	PASS
EFCAB11	14	89794669	89954777	-0.155273506	suppress_segment_too_large
EFCAB12	3	129401321	129428651	0.06434429	PASS
EFCAB13	17	47323290	47441312	0.051798665	PASS
EFCAB14	1	46675159	46719064	-0.736943052	PASS
EFCAB2	1	244969705	245127164	-0.145670469	suppress_likely_unfocal_large_gain
EFCAB3	17	62343941	62416479	0.051798665	PASS
EFCAB5	17	29929200	30108452	0.041294512	PASS
EFCAB6	22	43528744	43812337	-0.740245994	PASS
EFCAB7	1	63523372	63572693	0.052232535	PASS
EFCAB8	20	32858923	32961609	-0.172056771	suppress_segment_too_large

EFCAB9	5	172194172	172203452	0.165341871	suppress_segment_too_large
EFCC1	3	129001629	129040742	0.06434429	PASS
EFEMP1	2	55865967	55924139	-0.052193497	PASS
EFEMP2	11	65866441	65873592	0.064535884	PASS
EFHB	3	19879472	19947025	0.06149513	PASS
EFHC1	6	52362123	52529886	0.239805577	suppress_segment_too_large
EFHC2	23	44147882	44343672	0.158844052	PASS
EFHD1	2	232606057	232682781	0.011001208	PASS
EFHD2	1	15409895	15430343	0.048749694	PASS
EFL1	15	82130230	82262763	-0.759380635	PASS
EFNA1	1	155127460	155134857	0.088103245	PASS
EFNA2	19	1286154	1300237	-0.071973357	PASS
EFNA3	1	155078872	155087538	0.088103245	PASS
EFNA4	1	155063731	155069553	0.088103245	PASS
EFNA5	5	107376889	107670895	-0.393084436	PASS
EFNB1	23	68828997	68842147	0.158844052	PASS
EFNB2	13	106489731	106535662	-0.426822582	PASS
EFNB3	17	7705202	7711378	0.06854245	PASS
EFR3A	8	131904088	132013642	0.493344802	suppress_segment_too_large
EFR3B	2	25042130	25159137	0.034263343	PASS
EFS	14	23356402	23365752	0.053252507	PASS
EFTUD2	17	44849943	44899662	0.051798665	PASS
EGF	4	109912884	110012266	-0.677982248	PASS
EGFL6	23	13569605	13633575	0.158844052	PASS
EGFL7	9	136658856	136672678	0.073960965	PASS
EGFL8	6	32164583	32168281	0.028532667	PASS
EGFLAM	5	38258409	38465021	0.073527871	PASS
EGFR	7	55019021	55211628	-0.701511252	PASS
EGLN1	1	231363751	231425044	-0.204996646	suppress_segment_too_large
EGLN2	19	40798996	40808433	0.048917043	PASS
EGLN3	14	33924231	34462774	0.053252507	PASS
EGR1	5	138465490	138469315	-0.393084436	PASS
EGR2	10	62811996	62919900	0.032351597	PASS
EGR3	8	22687659	22693302	-0.311940419	PASS
EGR4	2	73290929	73293705	-0.46122572	PASS
EHBP1	2	62673851	63046487	-0.46122572	PASS
EHBP1L1	11	65576038	65592650	0.064535884	PASS
EHD1	11	64851642	64888296	0.064535884	PASS
EHD2	19	47713343	47743134	0.002743503	PASS
EHD3	2	31234337	31269447	0.034263343	PASS
EHD4	15	41895939	41972578	-0.423772929	PASS
EHF	11	34621093	34661057	-0.359426047	PASS
EHHADH	3	185190624	185281990	0.02267528	PASS
EHMT1	9	137618963	137870016	0.073960965	PASS
EHMT2	6	31879759	31897687	0.028532667	PASS
EI24	11	125569216	125584687	-0.431650509	PASS
EID1	15	48877886	48880183	-0.423772929	PASS
EID2	19	39538705	39540333	0.048917043	PASS
EID2B	19	39530990	39532854	0.048917043	PASS
EID3	12	104303739	104305205	0.028722739	PASS
EIF1	17	41688885	41692668	0.041294512	PASS
EIF1AD	11	65996545	66002176	0.064535884	PASS
EIF1AX	23	20124518	20141844	0.158844052	PASS
EIF1B	3	40309684	40312424	-0.727808231	PASS

EIF2A	3	150546678	150584242	0.02267528	PASS
EIF2AK1	7	6022244	6059230	-0.72421718	PASS
EIF2AK2	2	37099210	37157065	0.034263343	PASS
EIF2AK3	2	88556741	88627576	0.064122364	PASS
EIF2AK4	15	39934146	40035591	-0.423772929	PASS
EIF2B1	12	123620406	123633766	0.028722739	PASS
EIF2B2	14	75002911	75012366	-0.155273506	suppress_segment_too_large
EIF2B3	1	44850522	44986722	-0.736943052	PASS
EIF2B4	2	27364352	27370486	0.034263343	PASS
EIF2B5	3	184135038	184146112	0.02267528	PASS
EIF2D	1	206571292	206612463	-0.204996646	suppress_segment_too_large
EIF2S1	14	67359997	67386516	0.053252507	PASS
EIF2S2	20	34088298	34112332	-0.172056771	suppress_segment_too_large
EIF2S3	23	24054716	24077971	0.158844052	PASS
EIF2S3B	12	10505602	10523135	0.505438545	PASS
EIF3A	10	119033670	119080823	0.073090211	PASS
EIF3B	7	2354086	2380745	-0.72421718	PASS
EIF3C	16	28688558	28735730	0.053595371	PASS
EIF3D	22	36510850	36529436	-0.740245994	PASS
EIF3E	8	108201216	108435333	0.70944438	suppress_segment_too_large
EIF3F	11	7970251	8001862	-0.39835217	PASS
EIF3G	19	10115017	10119918	-0.107594294	PASS
EIF3H	8	116642130	116766925	0.493344802	suppress_segment_too_large
EIF3I	1	32221928	32231604	0.048749694	PASS
EIF3J	15	44537057	44563029	-0.423772929	PASS
EIF3K	19	38619082	38636955	0.048917043	PASS
EIF3L	22	37848868	37889407	-0.740245994	PASS
EIF3M	11	32583798	32606262	-0.359426047	PASS
EIF4A1	17	7572706	7579005	0.06854245	PASS
EIF4A2	3	186783205	186789900	0.02267528	PASS
EIF4A3	17	80135214	80147183	0.051798665	PASS
EIF4B	12	53006158	53042209	-0.743220499	PASS
EIF4E	4	98871684	98930637	-0.677982248	PASS
EIF4E1B	5	176630618	176646641	0.165341871	suppress_segment_too_large
EIF4E2	2	232550052	232583644	0.011001208	PASS
EIF4E3	3	71675416	71754773	-0.727808231	PASS
EIF4EBP1	8	38030341	38060365	0.182873287	suppress_segment_too_large
EIF4EBP2	10	70404379	70428618	0.032351597	PASS
EIF4EBP3	5	140547666	140549578	-0.393084436	PASS
EIF4ENIF1	22	31436977	31496108	-0.740245994	PASS
EIF4G1	3	184314495	184335358	0.02267528	PASS
EIF4G2	11	10797050	10809110	-0.39835217	PASS
EIF4G3	1	20806292	21176888	0.048749694	PASS
EIF4H	7	74174245	74197101	-0.701511252	PASS
EIF5	14	103333544	103345025	-0.155273506	suppress_segment_too_large
EIF5A	17	7306999	7312463	0.06854245	PASS
EIF5A2	3	170888415	170908693	0.02267528	PASS
EIF5AL1	10	79512601	79516440	0.032351597	PASS
EIF5B	2	99337353	99401326	0.064122364	PASS
EIF6	20	35278911	35284985	-0.172056771	suppress_segment_too_large
EIPR1	2	3188925	3377882	0.034263343	PASS
ELAC1	18	50967991	50988121	-0.330515409	PASS
ELAC2	17	12992391	13018187	0.06854245	PASS
ELANE	19	851014	856247	-0.071973357	PASS

ELAVL1	19	7958579	8005659	-0.071973357	PASS
ELAVL2	9	23690104	23826337	0.073960965	PASS
ELAVL3	19	11451326	11481046	-0.107594294	PASS
ELAVL4	1	50048014	50203786	-0.736943052	PASS
ELF1	13	40932028	41061440	-0.398748891	PASS
ELF2	4	139028112	139177218	0.142431244	suppress_segment_too_large
ELF3	1	202007945	202017188	-0.204996646	suppress_segment_too_large
ELF4	23	130064874	130110716	0.158844052	PASS
ELF5	11	34478793	34513805	-0.359426047	PASS
ELFN1	7	1688119	1747954	-0.72421718	PASS
ELFN2	22	37367960	37427470	-0.740245994	PASS
ELK1	23	47635521	47650604	0.158844052	PASS
ELK3	12	96194382	96269835	0.028722739	PASS
ELK4	1	205597556	205631962	-0.204996646	suppress_segment_too_large
ELL	19	18442663	18522127	-0.069222905	PASS
ELL2	5	95885098	95962071	-0.393084436	PASS
ELL3	15	43772600	43777543	-0.423772929	PASS
ELMO1	7	36854361	37449249	-0.72421718	PASS
ELMO2	20	46366049	46432985	-0.172056771	suppress_segment_too_large
ELMO3	16	67199111	67204029	-0.423061015	PASS
ELMOD1	11	107591091	107666779	-0.431650509	PASS
ELMOD2	4	140524158	140553770	0.142431244	suppress_segment_too_large
ELMOD3	2	85354394	85391752	0.064122364	PASS
ELMSAN1	14	73715122	73790285	0.053252507	PASS
ELN	7	74027789	74069907	-0.701511252	PASS
ELOA	1	23743155	23762059	0.048749694	PASS
ELOA2	18	47032572	47035621	-0.330515409	PASS
ELOA3C	18	46968695	46969912	-0.330515409	PASS
ELOA3D	18	46962768	46964408	-0.330515409	PASS
ELOB	16	2771414	2777297	0.053595371	PASS
ELOC	8	73939169	73972287	0.182873287	suppress_segment_too_large
ELOF1	19	11551147	11559236	-0.107594294	PASS
ELOVL1	1	43363397	43368074	-0.736943052	PASS
ELOVL2	6	10980759	11044314	0.069043418	PASS
ELOVL3	10	102226328	102229589	-0.414937136	PASS
ELOVL4	6	79914812	79947580	-0.250122709	PASS
ELOVL5	6	53267398	53349179	0.239805577	suppress_segment_too_large
ELOVL6	4	110045846	110199199	-0.677982248	PASS
ELOVL7	5	60751791	60844389	0.07724032	PASS
ELP1	9	108867517	108934116	0.073960965	PASS
ELP2	18	36129444	36180556	-0.330515409	PASS
ELP3	8	28089673	28191156	-0.311940419	PASS
ELP4	11	31509700	31790328	-0.359426047	PASS
ELP5	17	7251416	7259940	0.06854245	PASS
ELP6	3	47495640	47513761	-0.727808231	PASS
ELSPBP1	19	47994651	48025153	0.002743503	PASS
EMB	5	50396192	50443248	-0.284712224	PASS
EMC1	1	19215664	19251552	0.048749694	PASS
EMC10	19	50476400	50490870	0.002743503	PASS
EMC2	8	108443601	108486918	0.70944438	suppress_segment_too_large
EMC3	3	9962537	10011116	0.06149513	PASS
EMC4	15	34224999	34230156	-0.423772929	PASS
EMC6	17	3668815	3669668	0.06854245	PASS
EMC7	15	34084017	34101948	-0.423772929	PASS

EMC8	16	85771758	85799608	-0.423061015	PASS
EMC9	14	24138959	24141588	0.053252507	PASS
EMCN	4	100395341	100880126	-0.677982248	PASS
EMD	23	154379197	154381523	0.158844052	PASS
EME1	17	50373220	50381483	0.051798665	PASS
EME2	16	1773207	1781708	0.053595371	PASS
EMG1	12	6970893	6997428	-0.015029783	PASS
EMID1	22	29205851	29259597	-0.740245994	PASS
EMILIN1	2	27078567	27086408	0.034263343	PASS
EMILIN2	18	2847030	2915993	0.044197172	PASS
EMILIN3	20	41359966	41366827	-0.172056771	suppress_segment_too_large
EML1	14	99737693	99942060	-0.155273506	suppress_segment_too_large
EML2	19	45606994	45645629	0.002743503	PASS
EML3	11	62602218	62612765	0.064535884	PASS
EML4	2	42169350	42332548	0.034263343	PASS
EML5	14	88612431	88792752	-0.155273506	suppress_segment_too_large
EML6	2	54723499	54972025	0.034263343	PASS
EMP1	12	13196716	13219939	0.49032213	suppress_segment_too_large
EMP2	16	10528422	10580698	0.053595371	PASS
EMP3	19	48321509	48330553	0.002743503	PASS
EMSY	11	76444923	76553025	0.064535884	PASS
EMX1	2	72916260	72936071	-0.46122572	PASS
EMX2	10	117542444	117549546	0.073090211	PASS
EN1	2	118842171	118847678	-0.359440172	PASS
EN2	7	155458129	155464831	-0.77630473	PASS
ENAH	1	225486835	225653142	-0.204996646	suppress_segment_too_large
ENAM	4	70628744	70686816	0.115781418	suppress_segment_too_large
ENC1	5	74627406	74641424	-0.393084436	PASS
ENDOD1	11	95089810	95132645	0.32805343	suppress_segment_too_large
ENDOG	9	128818474	128822677	0.073960965	PASS
ENDOU	12	47709734	47725567	-0.743220499	PASS
ENDOV	17	80415165	80438086	0.051798665	PASS
ENG	9	127815012	127854756	0.073960965	PASS
ENGASE	17	79074939	79088599	0.051798665	PASS
ENHO	9	34521040	34523041	0.073960965	PASS
ENKD1	16	67662945	67667265	-0.423061015	PASS
ENKUR	10	24981979	25062279	0.075711544	PASS
ENO1	1	8861000	8879250	0.364796772	PASS
ENO2	12	6913745	6923698	-0.015029783	PASS
ENO3	17	4948092	4957131	0.06854245	PASS
ENO4	10	116849512	116911788	0.073090211	PASS
ENOPH1	4	82430562	82461091	-0.677982248	PASS
ENOSF1	18	670324	712676	0.044197172	PASS
ENOX1	13	43213518	43786908	-0.398748891	PASS
ENOX2	23	130623369	130903317	0.158844052	PASS
ENPEP	4	110365733	110565285	-0.677982248	PASS
ENPP1	6	131808016	131895155	-0.304168115	PASS
ENPP2	8	119557086	119673453	0.493344802	suppress_segment_too_large
ENPP3	6	131628442	131747418	-0.304168115	PASS
ENPP4	6	46129993	46146699	0.239805577	suppress_segment_too_large
ENPP5	6	46159187	46170971	0.239805577	suppress_segment_too_large
ENPP6	4	184088706	184221230	-0.453876349	PASS
ENPP7	17	79730919	79742222	0.051798665	PASS
ENSA	1	150600851	150629612	0.079255572	PASS

ENTHD1	22	39743044	39893864	-0.740245994	PASS
ENTPD1	10	95711779	95869695	-0.414937136	PASS
ENTPD2	9	137048098	137054045	0.073960965	PASS
ENTPD3	3	40387156	40428744	-0.727808231	PASS
ENTPD4	8	23385783	23457695	-0.311940419	PASS
ENTPD5	14	73958010	74019399	0.053252507	PASS
ENTPD6	20	25195693	25226729	-0.172056771	suppress_segment_too_large
ENTPD7	10	99659506	99706240	-0.414937136	PASS
ENTPD8	9	137434364	137441816	0.073960965	PASS
ENTR1	9	136401922	136410609	0.073960965	PASS
ENY2	8	109334324	109345953	0.70944438	suppress_segment_too_large
EOGT	3	68975214	69013961	-0.727808231	PASS
EOMES	3	27715949	27722711	0.06149513	PASS
EP300	22	41091786	41180079	-0.740245994	PASS
EP400	12	131949920	132081102	0.028722739	PASS
EPAS1	2	46293667	46386703	0.034263343	PASS
EPB41	1	28887091	29120046	0.048749694	PASS
EPB41L1	20	36091504	36232799	-0.172056771	suppress_segment_too_large
EPB41L2	6	130839347	131063322	-0.304168115	PASS
EPB41L3	18	5392381	5630700	0.044197172	PASS
EPB41L4A	5	112142441	112419316	-0.393084436	PASS
EPB41L4B	9	109171975	109320964	0.073960965	PASS
EPB41L5	2	120013005	120179119	-0.359440172	PASS
EPB42	15	43197227	43221125	-0.423772929	PASS
EPC1	10	32267751	32378798	0.075711544	PASS
EPC2	2	148644440	148787568	-0.30549516	PASS
EPCAM	2	47345158	47387601	0.034263343	PASS
EPDR1	7	37683843	37951941	-0.72421718	PASS
EPG5	18	45847609	45967339	-0.330515409	PASS
EPGN	4	74308473	74315307	0.115781418	suppress_segment_too_large
EPHA1	7	143390289	143408892	-0.712149877	PASS
EPHA10	1	37713880	37765133	0.048749694	PASS
EPHA2	1	16124337	16156087	0.048749694	PASS
EPHA3	3	89107524	89482134	0.22470242	PASS
EPHA4	2	221418027	221574202	0.011001208	PASS
EPHA5	4	65319563	65670495	0.115781418	suppress_segment_too_large
EPHA6	3	96814581	97752460	0.22470242	PASS
EPHA7	6	93240020	93419547	-0.355603029	PASS
EPHA8	1	22563564	22603594	0.048749694	PASS
EPHB1	3	134597801	135260467	0.06434429	PASS
EPHB2	1	22710839	22921500	0.048749694	PASS
EPHB3	3	184561784	184582409	0.02267528	PASS
EPHB4	7	100802565	100827521	-0.710463272	PASS
EPHB6	7	142855061	142871094	-0.712149877	PASS
EPHX1	1	225810092	225845563	-0.204996646	suppress_segment_too_large
EPHX2	8	27490779	27545564	-0.311940419	PASS
EPHX3	19	15226919	15233435	-0.069222905	PASS
EPHX4	1	92029982	92063536	0.079255572	PASS
EPM2A	6	145382535	145736023	0.033894706	PASS
EPM2AIP1	3	36985043	36993168	-0.727808231	PASS
EPN1	19	55675226	55709858	0.142581352	PASS
EPN2	17	19215615	19336715	0.06854245	PASS
EPN3	17	50532543	50543750	0.051798665	PASS
EPO	7	100720800	100723700	-0.710463272	PASS

EPOP	17	38671703	38675421	0.041294512	PASS
EPOR	19	11377205	11384342	-0.107594294	PASS
EPPIN	20	45540626	45547752	-0.172056771	suppress_segment_too_large
EPPIN-WF	20	45536986	45547426	-0.172056771	suppress_segment_too_large
EPPK1	8	143857324	143878464	0.699132336	PASS
EPRS	1	219968601	220046658	-0.204996646	suppress_segment_too_large
EPS15	1	51354263	51519328	-0.736943052	PASS
EPS15L1	19	16355239	16472085	-0.069222905	PASS
EPS8	12	15620158	15882329	0.49032213	suppress_segment_too_large
EPS8L1	19	55072020	55087923	0.142581352	PASS
EPS8L2	11	694438	727727	-0.39835217	PASS
EPS8L3	1	109750080	109764027	0.079255572	PASS
EPSTI1	13	42886388	42992271	-0.398748891	PASS
EPX	17	58192737	58205174	0.051798665	PASS
EPYC	12	90963679	91005026	0.271127429	suppress_segment_too_large
EQTN	9	27284659	27297139	0.073960965	PASS
ERAL1	17	28854938	28861067	0.041294512	PASS
ERAP1	5	96760810	96808100	-0.393084436	PASS
ERAP2	5	96875939	96919716	-0.393084436	PASS
ERAS	23	48826513	48830138	0.158844052	PASS
ERBB2	17	39687914	39730426	0.041294512	PASS
ERBB3	12	56076799	56103505	-0.743220499	PASS
ERBB4	2	211375717	212538841	0.011001208	PASS
ERBIN	5	65926475	66082549	-0.393084436	PASS
ERC1	12	990509	1495933	-0.015029783	PASS
ERC2	3	55508308	56468363	-0.727808231	PASS
ERCC1	19	45407333	45478828	0.002743503	PASS
ERCC2	19	45349837	45370918	0.002743503	PASS
ERCC3	2	127257290	127294176	-0.359440172	PASS
ERCC4	16	13920157	13952345	0.053595371	PASS
ERCC5	13	102807146	102876001	-0.426822582	PASS
ERCC6	10	49455368	49539538	-0.389033546	PASS
ERCC6L	23	72204657	72239047	0.158844052	PASS
ERCC6L2	9	95875701	96014571	0.073960965	PASS
ERCC8	5	60873831	60945073	0.07724032	PASS
EREG	4	74365143	74388751	0.115781418	suppress_segment_too_large
ERF	19	42247572	42255157	0.048917043	PASS
ERFE	2	238158982	238168900	0.011001208	PASS
ERG	21	38380027	38661780	0.209983559	PASS
ERG28	14	75649791	75661189	-0.155273506	suppress_segment_too_large
ERGIC1	5	172834275	172952685	0.165341871	suppress_segment_too_large
ERGIC2	12	29337352	29381189	0.49032213	suppress_segment_too_large
ERGIC3	20	35542021	35557634	-0.172056771	suppress_segment_too_large
ERH	14	69380123	69398627	0.053252507	PASS
ERI1	8	9002147	9116746	-0.311940419	PASS
ERI2	16	20780193	20900349	0.053595371	PASS
ERI3	1	44221070	44355260	-0.736943052	PASS
ERICH1	8	614746	738106	-0.311940419	PASS
ERICH2	2	170783786	170798971	0.033541467	PASS
ERICH3	1	74568111	74673738	0.052232535	PASS
ERICH4	19	41443158	41444765	0.048917043	PASS
ERICH5	8	98064311	98093610	0.355469066	suppress_segment_too_large
ERICH6	3	150659885	150703971	0.02267528	PASS
ERICH6B	13	45534522	45615739	-0.398748891	PASS

ERLEC1	2	53787044	53818819	0.034263343	PASS
ERLIN1	10	100150094	100188334	-0.414937136	PASS
ERLIN2	8	37736601	37759101	0.182873287	suppress_segment_too_large
ERMAP	1	42817088	42844993	-0.736943052	PASS
ERMARD	6	169751622	169781584	0.033894706	PASS
ERMN	2	157318625	157327713	-0.30549516	PASS
ERMP1	9	5765076	5833117	0.073960965	PASS
ERN1	17	64039142	64130819	0.051798665	PASS
ERN2	16	23690326	23713500	0.053595371	PASS
ERO1A	14	52639916	52695900	0.053252507	PASS
ERO1B	1	236215555	236281985	-0.204996646	suppress_segment_too_large
ERP27	12	14914035	14939082	0.49032213	suppress_segment_too_large
ERP29	12	112013316	112023451	0.028722739	PASS
ERP44	9	99979179	100099040	0.073960965	PASS
ERRFI1	1	8004404	8026308	0.364796772	PASS
ERV3-1	7	64990809	65006743	-0.701511252	PASS
ERVFRD-1	6	11102489	11111732	0.069043418	PASS
ERVK3-1	19	58305319	58315663	0.142581352	PASS
ERVMER3	4	52722618	52751640	0.115781418	suppress_segment_too_large
ERVV-1	19	53013921	53016122	0.416834572	PASS
ERVV-2	19	53044738	53051076	0.416834572	PASS
ERVW-1	7	92468380	92477986	-0.710463272	PASS
ESAM	11	124752583	124762290	-0.431650509	PASS
ESCO1	18	21529281	21600884	-0.330515409	PASS
ESCO2	8	27771949	27812640	-0.311940419	PASS
ESD	13	46771256	46797232	-0.398748891	PASS
ESF1	20	13714322	13784886	-0.172056771	suppress_segment_too_large
ESM1	5	54977864	55022671	-0.284712224	PASS
ESPL1	12	53268299	53293643	-0.743220499	PASS
ESPN	1	6424776	6461367	0.364796772	PASS
ESPNL	2	238100157	238133287	0.011001208	PASS
ESR1	6	151656691	152129619	0.033894706	PASS
ESR2	14	64084232	64338112	0.053252507	PASS
ESRP1	8	94641074	94707466	0.355469066	suppress_segment_too_large
ESRP2	16	68229111	68238102	-0.423061015	PASS
ESRRA	11	64305572	64316743	0.064535884	PASS
ESRRB	14	76310712	76501837	-0.155273506	suppress_segment_too_large
ESRRG	1	216503246	217137755	-0.204996646	suppress_segment_too_large
ESS2	22	19130279	19144684	-0.740245994	PASS
ESX1	23	104250038	104254933	0.158844052	PASS
ESYT1	12	56118250	56144671	-0.743220499	PASS
ESYT2	7	158730995	158830253	-0.77630473	PASS
ESYT3	3	138434586	138481686	0.06434429	PASS
ETAA1	2	67397319	67412089	-0.46122572	PASS
ETF1	5	138506095	138543300	-0.393084436	PASS
ETFA	15	76215355	76311472	-0.759380635	PASS
ETFB	19	51345169	51366418	0.002743503	PASS
ETFBKMT	12	31647160	31673114	0.49032213	suppress_segment_too_large
ETFDH	4	158672125	158709623	0.142431244	suppress_segment_too_large
ETFRF1	12	25195216	25209645	0.49032213	suppress_segment_too_large
ETHE1	19	43506719	43527244	0.048917043	PASS
ETNK1	12	22625075	22690665	0.49032213	suppress_segment_too_large
ETNK2	1	204131062	204152003	-0.204996646	suppress_segment_too_large
ETNPPL	4	108742040	108763054	-0.677982248	PASS

ETS1	11	128458761	128587558	-0.431650509	PASS
ETS2	21	38805307	38824955	0.209983559	PASS
ETV1	7	13891228	13991425	-0.72421718	PASS
ETV2	19	35641745	35644871	0.044838622	PASS
ETV3	1	157121191	157138474	0.088103245	PASS
ETV3L	1	157092044	157099808	0.088103245	PASS
ETV4	17	43527844	43579620	0.051798665	PASS
ETV5	3	186046308	186110318	0.02267528	PASS
ETV6	12	11649854	11895402	0.49032213	suppress_segment_too_large
ETV7	6	36354091	36387800	0.028532667	PASS
EVA1A	2	75469302	75569722	-0.46122572	PASS
EVA1B	1	36322031	36324154	0.048749694	PASS
EVA1C	21	32412006	32515397	0.209983559	PASS
EVC	4	5711197	5814305	-0.358623662	PASS
EVC2	4	5542772	5709548	-0.358623662	PASS
EVI2A	17	31317560	31321884	0.041294512	PASS
EVI2B	17	31303766	31314112	0.041294512	PASS
EVI5	1	92508696	92792404	0.079255572	PASS
EVI5L	19	7830233	7864976	-0.071973357	PASS
EVL	14	99971449	100144236	-0.155273506	suppress_segment_too_large
EVPL	17	76004502	76027452	0.051798665	PASS
EVPLL	17	18377662	18389647	0.06854245	PASS
EVX1	7	27242700	27250493	-0.72421718	PASS
EVX2	2	176077472	176083913	0.033541467	PASS
EWSR1	22	29268009	29300525	-0.740245994	PASS
EXD1	15	41182725	41230743	-0.423772929	PASS
EXD2	14	69191511	69244020	0.053252507	PASS
EXD3	9	137306896	137423262	0.073960965	PASS
EXO1	1	241847967	241895148	-0.287484925	PASS
EXO5	1	40508741	40516556	0.048749694	PASS
EXOC1	4	55853616	55905034	0.115781418	suppress_segment_too_large
EXOC2	6	485133	693111	0.069043418	PASS
EXOC3	5	443158	471937	0.073527871	PASS
EXOC3L1	16	67184366	67190204	-0.423061015	PASS
EXOC3L2	19	45212621	45245431	0.002743503	PASS
EXOC3L4	14	103100144	103110559	-0.155273506	suppress_segment_too_large
EXOC4	7	133253073	134066589	-0.712149877	PASS
EXOC5	14	57200507	57269008	0.053252507	PASS
EXOC6	10	92834713	93059493	-0.414937136	PASS
EXOC6B	2	72175984	72826041	-0.46122572	PASS
EXOC7	17	76081017	76121576	0.051798665	PASS
EXOC8	1	231332753	231337852	-0.204996646	suppress_segment_too_large
EXOG	3	38496127	38542161	-0.727808231	PASS
EXOSC1	10	97436142	97446017	-0.414937136	PASS
EXOSC10	1	11066618	11099881	0.364796772	PASS
EXOSC2	9	130693721	130704894	0.073960965	PASS
EXOSC3	9	37766978	37801437	0.073960965	PASS
EXOSC4	8	144078626	144080647	0.699132336	PASS
EXOSC5	19	41386374	41397479	0.048917043	PASS
EXOSC7	3	44975241	45036066	-0.727808231	PASS
EXOSC8	13	36998816	37009613	-0.398748891	PASS
EXOSC9	4	121801317	121817021	0.142431244	suppress_segment_too_large
EXPH5	11	108505431	108593738	-0.431650509	PASS
EXT1	8	117794490	118111853	0.493344802	suppress_segment_too_large

EXT2	11	44095549	44245429	0.059795455	PASS
EXTL1	1	26019884	26036464	0.048749694	PASS
EXTL2	1	100872372	100895998	0.079255572	PASS
EXTL3	8	28600469	28755599	-0.311940419	PASS
EYA1	8	71197433	71592025	0.182873287	suppress_segment_too_large
EYA2	20	46894624	47188844	-0.172056771	suppress_segment_too_large
EYA3	1	27970344	28088696	0.048749694	PASS
EYA4	6	133240598	133532120	0.033894706	PASS
EYS	6	63719980	65707225	-0.021435747	PASS
EZH1	17	42700275	42745049	0.041294512	PASS
EZH2	7	148807383	148884321	-0.712149877	PASS
EZR	6	158765741	158819412	0.033894706	PASS
F10	13	113122814	113149529	-0.426822582	PASS
F11	4	186265945	186288806	0.275137421	PASS
F11R	1	160995211	161021348	0.088103245	PASS
F12	5	177402140	177409576	0.165341871	suppress_segment_too_large
F13A1	6	6144085	6321013	0.069043418	PASS
F13B	1	197038741	197067267	0.088103245	PASS
F2	11	46719180	46739506	0.059795455	PASS
F2R	5	76716043	76735781	-0.393084436	PASS
F2RL1	5	76818933	76835315	-0.393084436	PASS
F2RL2	5	76615482	76623434	-0.393084436	PASS
F2RL3	19	16888860	16892606	-0.069222905	PASS
F3	1	94529225	94541800	0.079255572	PASS
F5	1	169514166	169586588	0.088103245	PASS
F7	13	113105788	113120681	-0.426822582	PASS
F8	23	154835788	155026940	0.158844052	PASS
F9	23	139530758	139563458	0.158844052	PASS
FA2H	16	74712955	74774831	-0.423061015	PASS
FAAH	1	46394265	46413848	-0.736943052	PASS
FAAH2	23	57286706	57489196	0.158844052	PASS
FAAP100	17	81539885	81553961	0.051798665	PASS
FAAP20	1	2184461	2212720	-0.358281697	PASS
FAAP24	19	32972209	32978222	0.044838622	PASS
FABP1	2	88122982	88128116	0.064122364	PASS
FABP12	8	81524981	81531378	0.617295349	suppress_segment_too_large
FABP2	4	119317250	119322390	-0.754119944	PASS
FABP3	1	31365625	31376850	0.048749694	PASS
FABP4	8	81478419	81483263	0.617295349	suppress_segment_too_large
FABP5	8	81280363	81284777	0.617295349	suppress_segment_too_large
FABP6	5	160187367	160238735	0.165341871	suppress_segment_too_large
FABP7	6	122779475	122784074	-1.845658544	PASS
FABP9	8	81458341	81461579	0.617295349	suppress_segment_too_large
FADD	11	70203163	70207390	0.064535884	PASS
FADS1	11	61799625	61829318	0.064535884	PASS
FADS2	11	61792980	61867354	0.064535884	PASS
FADS3	11	61873519	61892051	0.064535884	PASS
FADS6	17	74877299	74893781	0.051798665	PASS
FAF1	1	50437028	50960263	-0.736943052	PASS
FAF2	5	176447628	176510074	0.165341871	suppress_segment_too_large
FAH	15	80152490	80186946	-0.759380635	PASS
FAHD1	16	1826941	1840207	0.053595371	PASS
FAHD2A	2	95402721	95416616	0.064122364	PASS
FAHD2B	2	97083583	97094882	0.064122364	PASS

FAIM	3	138608606	138633376	0.06434429	PASS
FAIM2	12	49866896	49904217	-0.743220499	PASS
FAM102A	9	127940579	127980513	0.073960965	PASS
FAM102B	1	108560089	108644900	0.079255572	PASS
FAM104A	17	73207353	73236753	0.051798665	PASS
FAM104B	23	55143102	55161310	0.158844052	PASS
FAM107A	3	58564117	58627610	-0.727808231	PASS
FAM107B	10	14518557	14774897	0.075711544	PASS
FAM110A	20	833715	857463	-0.172056771	suppress_segment_too_large
FAM110B	8	57994509	58204279	0.182873287	suppress_segment_too_large
FAM110C	2	38814	46870	0.034263343	PASS
FAM110D	1	26159020	26163962	0.048749694	PASS
FAM111A	11	59142748	59155039	0.27006553	suppress_segment_too_large
FAM111B	11	59107185	59127410	0.27006553	suppress_segment_too_large
FAM114A	4	38867677	38945739	-0.753159364	PASS
FAM114A	5	153990128	154038936	-0.393084436	PASS
FAM117A	17	49710332	49789180	0.051798665	PASS
FAM117B	2	202635188	202769757	0.011001208	PASS
FAM118A	22	45308968	45341955	-0.953096644	PASS
FAM118B	11	126211414	126262986	-0.431650509	PASS
FAM120A	9	93451722	93566107	0.073960965	PASS
FAM120A	9	93431441	93453592	0.073960965	PASS
FAM120B	6	170290703	170407065	0.033894706	PASS
FAM120C	23	54068324	54183281	0.158844052	PASS
FAM122A	9	68780034	68784608	0.073960965	PASS
FAM122B	23	134769566	134797232	0.158844052	PASS
FAM122C	23	134796395	134854835	0.158844052	PASS
FAM124A	13	51222334	51284241	-0.384313056	PASS
FAM124B	2	224378698	224402085	0.011001208	PASS
FAM126A	7	22889371	23014130	-0.72421718	PASS
FAM126B	2	200973718	201071671	0.011001208	PASS
FAM129A	1	184790724	184974550	0.088103245	PASS
FAM129B	9	127505339	127578989	0.073960965	PASS
FAM129C	19	17523301	17553839	-0.069222905	PASS
FAM131A	3	184335926	184348421	0.02267528	PASS
FAM131B	7	143353400	143362770	-0.712149877	PASS
FAM131C	1	16057769	16073632	0.048749694	PASS
FAM133A	23	93674013	93712274	0.158844052	PASS
FAM133B	7	92560793	92590394	-0.710463272	PASS
FAM135A	6	70412941	70561174	-0.250122709	PASS
FAM135B	8	138130023	138496822	0.493344802	suppress_segment_too_large
FAM136A	2	70295975	70302090	-0.46122572	PASS
FAM13A	4	88725955	89111398	-0.677982248	PASS
FAM13B	5	137937960	138051961	-0.393084436	PASS
FAM13C	10	59246129	59363181	0.032351597	PASS
FAM149A	4	186104419	186172667	0.275137421	PASS
FAM149B	10	73168166	73244504	0.032351597	PASS
FAM151A	1	54609182	54623556	-0.736943052	PASS
FAM151B	5	80487969	80542563	-0.393084436	PASS
FAM153A	5	177707981	177783398	0.165341871	suppress_segment_too_large
FAM153B	5	176060689	176116015	0.165341871	suppress_segment_too_large
FAM153C	5	178006405	178055559	0.165341871	suppress_segment_too_large
FAM155A	13	107163510	107866735	-0.426822582	PASS
FAM155B	23	69505241	69532508	0.158844052	PASS

FAM156A	23	52926402	52995472	0.158844052	PASS
FAM160A	4	151409216	151663632	0.142431244	suppress_segment_too_large
FAM160A	11	6211335	6234711	-0.39835217	PASS
FAM160B	10	114821744	114899832	0.073090211	PASS
FAM160B	8	22089159	22104898	-0.311940419	PASS
FAM161A	2	61824854	61854143	-0.46122572	PASS
FAM161B	14	73931501	73950414	0.053252507	PASS
FAM162A	3	122384176	122412334	0.06434429	PASS
FAM162B	6	116752197	116765723	-0.355603029	PASS
FAM163A	1	179743163	179816198	0.088103245	PASS
FAM163B	9	133578415	133586197	0.073960965	PASS
FAM166A	9	137243584	137247770	0.073960965	PASS
FAM166B	9	35561831	35563899	0.073960965	PASS
FAM167A	8	11421463	11475908	-0.311940419	PASS
FAM167B	1	32247233	32248856	0.048749694	PASS
FAM168A	11	73400487	73598189	0.064535884	PASS
FAM168B	2	131047876	131093460	-0.359440172	PASS
FAM169A	5	74777574	74866951	-0.393084436	PASS
FAM169B	15	98437162	98547728	-0.759380635	PASS
FAM170A	5	119629559	119635822	-0.393084436	PASS
FAM170B	10	49131154	49134008	-0.389033546	PASS
FAM171A	10	15211643	15371062	0.075711544	PASS
FAM171A	17	44353215	44363875	0.051798665	PASS
FAM171B	2	186693971	186765965	-0.120408457	PASS
FAM172A	5	93618069	94111699	-0.393084436	PASS
FAM173A	16	720581	722601	0.053595371	PASS
FAM173B	5	10226330	10249897	0.073527871	PASS
FAM174A	5	100535305	100586741	-0.393084436	PASS
FAM174B	15	92617443	92809884	-0.759380635	PASS
FAM177A	14	35044907	35113130	0.053252507	PASS
FAM177B	1	222737207	222750805	-0.204996646	suppress_segment_too_large
FAM178B	2	96875882	96986592	0.064122364	PASS
FAM180A	7	135728348	135748846	-0.712149877	PASS
FAM180B	11	47586693	47589194	0.059795455	PASS
FAM181A	14	93918894	93929608	-0.155273506	suppress_segment_too_large
FAM181B	11	82729941	82733864	0.064535884	PASS
FAM183A	1	43145153	43156396	-0.736943052	PASS
FAM184A	6	118959763	119149387	-0.355603029	PASS
FAM184B	4	17629306	17781512	-0.358623662	PASS
FAM185A	7	102748971	102809225	-0.712149877	PASS
FAM186A	12	50326230	50396622	-0.743220499	PASS
FAM186B	12	49582885	49605639	-0.743220499	PASS
FAM187A	17	44899712	44905390	0.051798665	PASS
FAM187B	19	35224800	35228729	0.044838622	PASS
FAM189A	15	29120254	29570723	-0.423772929	PASS
FAM189A	9	69324567	69392558	0.073960965	PASS
FAM189B	1	155247205	155255483	0.088103245	PASS
FAM192A	16	57152466	57186116	-0.423061015	PASS
FAM193A	4	2536631	2732565	-0.358623662	PASS
FAM193B	5	177519788	177554541	0.165341871	suppress_segment_too_large
FAM198A	3	42979267	43060211	-0.727808231	PASS
FAM198B	4	158124474	158173318	0.142431244	suppress_segment_too_large
FAM199X	23	104166620	104195902	0.158844052	PASS
FAM19A1	3	68004216	68545625	-0.727808231	PASS

FAM19A2	12	61708259	62279150	-0.743220499	PASS
FAM19A3	1	112720419	112727235	0.079255572	PASS
FAM19A4	3	68731766	68953297	-0.727808231	PASS
FAM19A5	22	48489460	48850912	-0.953096644	PASS
FAM200A	7	99546308	99558536	-0.710463272	PASS
FAM200B	4	15681662	15705565	-0.358623662	PASS
FAM204A	10	118297930	118342328	0.073090211	PASS
FAM205A	9	34723055	34729467	0.073960965	PASS
FAM205C	9	34889064	34895778	0.073960965	PASS
FAM206A	9	108934181	108950744	0.073960965	PASS
FAM207A	21	44940010	44976989	0.209983559	PASS
FAM208A	3	56620133	56683237	-0.727808231	PASS
FAM208B	10	5684838	5763740	0.075711544	PASS
FAM209A	20	56517187	56526142	-0.172056771	suppress_segment_too_large
FAM209B	20	56533246	56536520	-0.172056771	suppress_segment_too_large
FAM20A	17	68535113	68601389	0.051798665	PASS
FAM20B	1	179025804	179076562	0.088103245	PASS
FAM20C	7	192969	260745	-0.72421718	PASS
FAM210A	18	13663347	13726663	0.044197172	PASS
FAM210B	20	56358915	56368663	-0.172056771	suppress_segment_too_large
FAM214A	15	52581317	52709817	-0.423772929	PASS
FAM214B	9	35104112	35116341	0.073960965	PASS
FAM216A	12	110468364	110490385	0.028722739	PASS
FAM216B	13	42781550	42791549	-0.398748891	PASS
FAM217A	6	4049434	4087344	0.069043418	PASS
FAM217B	20	59933764	59948680	-0.172056771	suppress_segment_too_large
FAM218A	4	164956948	164959122	0.142431244	suppress_segment_too_large
FAM219A	9	34398184	34458570	0.073960965	PASS
FAM219B	15	74899987	74907121	-0.759380635	PASS
FAM220A	7	6329409	6348981	-0.72421718	PASS
FAM221A	7	23680130	23703249	-0.72421718	PASS
FAM221B	9	35816391	35828747	0.073960965	PASS
FAM222A	12	109714228	109770507	0.028722739	PASS
FAM222B	17	28755978	28855232	0.041294512	PASS
FAM227A	22	38578120	38656629	-0.740245994	PASS
FAM227B	15	49326962	49620931	-0.423772929	PASS
FAM228A	2	24175069	24200849	0.034263343	PASS
FAM228B	2	24076526	24169640	0.034263343	PASS
FAM229A	1	32361270	32364278	0.048749694	PASS
FAM229B	6	112087599	112102790	-0.355603029	PASS
FAM234A	16	234546	268971	0.053595371	PASS
FAM234B	12	13044284	13142521	0.49032213	suppress_segment_too_large
FAM236C	23	72912615	72913401	0.158844052	PASS
FAM236D	23	72807425	72808210	0.158844052	PASS
FAM237A	2	206642412	206649011	0.011001208	PASS
FAM240A	3	46612435	46626543	-0.727808231	PASS
FAM241A	4	112145397	112195256	-0.677982248	PASS
FAM241B	10	69630251	69633599	0.032351597	PASS
FAM24A	10	122910701	122913111	0.073090211	PASS
FAM24B	10	122849078	122879641	0.073090211	PASS
FAM25A	10	87020306	87024730	-0.461254852	PASS
FAM25C	10	47995355	47999791	-0.389033546	PASS
FAM32A	19	16185380	16192046	-0.069222905	PASS
FAM3A	23	154506159	154516242	0.158844052	PASS

FAM3B	21	41304212	41357431	0.209983559	PASS
FAM3C	7	121348851	121396364	-0.712149877	PASS
FAM3D	3	58633946	58666848	-0.727808231	PASS
FAM43A	3	194686544	194689037	0.02267528	PASS
FAM43B	1	20552439	20555010	0.048749694	PASS
FAM45A	10	119104086	119137984	0.073090211	PASS
FAM47A	23	34129756	34132314	0.158844052	PASS
FAM47B	23	34942796	34944915	0.158844052	PASS
FAM47C	23	37008397	37011666	0.158844052	PASS
FAM47E	4	76214040	76283780	-0.677982248	PASS
FAM47E-S	4	76251721	76311129	-0.677982248	PASS
FAM49A	2	16549459	16666331	0.034263343	PASS
FAM49B	8	129839593	130017129	0.493344802	suppress_segment_too_large
FAM50A	23	154444126	154450654	0.158844052	PASS
FAM50B	6	3849373	3851320	0.069043418	PASS
FAM53A	4	1617915	1684302	-0.358623662	PASS
FAM53B	10	124619292	124744269	0.073090211	PASS
FAM53C	5	138331935	138349729	-0.393084436	PASS
FAM57A	17	732412	742972	0.06854245	PASS
FAM57B	16	30024427	30052978	0.053595371	PASS
FAM69A	1	92832737	92961522	0.079255572	PASS
FAM69B	9	136712570	136724050	0.073960965	PASS
FAM69C	18	74434099	74457944	-0.330515409	PASS
FAM71A	1	212624474	212626778	-0.204996646	suppress_segment_too_large
FAM71B	5	157161846	157166264	0.165341871	suppress_segment_too_large
FAM71C	12	99647753	99650046	0.028722739	PASS
FAM71D	14	67189393	67228550	0.053252507	PASS
FAM71E1	19	50466785	50476753	0.002743503	PASS
FAM71E2	19	55354908	55363260	0.142581352	PASS
FAM71F1	7	128709061	128731743	-0.712149877	PASS
FAM71F2	7	128672288	128687872	-0.712149877	PASS
FAM72A	1	206186179	206204414	-0.204996646	suppress_segment_too_large
FAM72B	1	121167646	121185539	0.079255572	PASS
FAM72C	1	143955364	143971965	0.079255572	PASS
FAM72D	1	145096000	145112696	0.079255572	PASS
FAM76A	1	27725979	27763122	0.048749694	PASS
FAM76B	11	95768942	95790409	0.32805343	suppress_segment_too_large
FAM78A	9	131258076	131276547	0.073960965	PASS
FAM78B	1	166057426	166166969	0.088103245	PASS
FAM81A	15	59372693	59523549	-0.759380635	PASS
FAM81B	5	95391344	95450454	-0.393084436	PASS
FAM83A	8	123178960	123210079	0.493344802	suppress_segment_too_large
FAM83B	6	54846771	54942022	0.239805577	suppress_segment_too_large
FAM83C	20	35285731	35292401	-0.172056771	suppress_segment_too_large
FAM83D	20	38926312	38953106	-0.172056771	suppress_segment_too_large
FAM83E	19	48600810	48614854	0.002743503	PASS
FAM83F	22	39994949	40043529	-0.740245994	PASS
FAM83G	17	18968789	19004804	0.06854245	PASS
FAM83H	8	143723933	143733801	0.699132336	PASS
FAM84A	2	14632686	14650814	0.034263343	PASS
FAM84B	8	126552442	126558393	0.493344802	suppress_segment_too_large
FAM86B1	8	12182096	12194133	-0.311940419	PASS
FAM86B2	8	12425614	12436343	-0.311940419	PASS
FAM86C1	11	71787510	71801236	0.064535884	PASS

FAM89A	1	231018958	231040246	-0.204996646	suppress_segment_too_large
FAM89B	11	65572349	65574198	0.064535884	PASS
FAM8A1	6	17600355	17611719	0.069043418	PASS
FAM90A1	12	8221260	8227618	-0.015029783	PASS
FAM91A1	8	123768456	123815452	0.493344802	suppress_segment_too_large
FAM92A	8	93698561	93731527	0.355469066	suppress_segment_too_large
FAM92B	16	85098358	85112508	-0.423061015	PASS
FAM95C	9	38540569	38577207	0.073960965	PASS
FAM98A	2	33583658	33599382	0.034263343	PASS
FAM98B	15	38454127	38487710	-0.423772929	PASS
FAM98C	19	38403135	38409088	0.048917043	PASS
FAM9A	23	8790795	8801383	0.158844052	PASS
FAM9B	23	9024232	9164639	0.158844052	PASS
FAM9C	23	13035618	13044682	0.158844052	PASS
FAN1	15	30903852	30943108	-0.423772929	PASS
FANCA	16	89737549	89816657	-0.423061015	PASS
FANCB	23	14835961	14873069	0.158844052	PASS
FANCC	9	95099054	95426796	0.073960965	PASS
FANCD2	3	10026414	10101930	0.06149513	PASS
FANCD2O	3	10081317	10108231	0.06149513	PASS
FANCE	6	35452356	35467103	0.028532667	PASS
FANCF	11	22622890	22625841	-2.208422516	PASS
FANCG	9	35073835	35080016	0.073960965	PASS
FANCI	15	89243949	89317261	-0.759380635	PASS
FANCL	2	58159243	58241372	-0.46122572	PASS
FANCM	14	45135940	45200890	0.053252507	PASS
FANK1	10	125896539	126009592	0.073090211	PASS
FAP	2	162170684	162245151	0.319987345	PASS
FAR1	11	13668670	13732346	-0.39835217	PASS
FAR2	12	29149103	29340980	0.49032213	suppress_segment_too_large
FARP1	13	98142562	98455176	-0.384313056	PASS
FARS2	6	5261044	5829192	0.069043418	PASS
FARSA	19	12922479	12934037	-0.069222905	PASS
FARSB	2	222570536	222656337	0.011001208	PASS
FAS	10	88990582	89015785	-2.417109027	RESCUE
FASLG	1	172659018	172666874	0.088103245	PASS
FASN	17	82078333	82098332	0.051798665	PASS
FASTK	7	151076593	151080866	-0.712149877	PASS
FASTKD1	2	169529749	169573875	0.033541467	PASS
FASTKD2	2	206765357	206792509	0.011001208	PASS
FASTKD3	5	7859159	7869037	0.073527871	PASS
FASTKD5	20	3146519	3159897	-0.172056771	suppress_segment_too_large
FAT1	4	186587783	186726722	0.275137421	PASS
FAT2	5	151504093	151568944	-0.393084436	PASS
FAT3	11	92352096	92896470	0.064535884	PASS
FAT4	4	125316399	125492932	0.142431244	suppress_segment_too_large
FATE1	23	151716035	151723194	0.158844052	PASS
FAU	11	65120628	65122473	0.064535884	PASS
FAXC	6	99271169	99350062	-0.355603029	PASS
FAXDC2	5	154818491	154859252	-0.393084436	PASS
FBF1	17	75909574	75941140	0.051798665	PASS
FBH1	10	5890203	5937594	0.075711544	PASS
FBL	19	39834458	39846414	0.048917043	PASS
FBLIM1	1	15756607	15786594	0.048749694	PASS

FBLL1	5	168529116	168530634	0.165341871	suppress_segment_too_large
FBLN1	22	45502238	45601135	-0.953096644	PASS
FBLN2	3	13549131	13638422	0.06149513	PASS
FBLN5	14	91869412	91947987	-0.155273506	suppress_segment_too_large
FBLN7	2	112138385	112188216	0.040971718	PASS
FBN1	15	48408306	48645849	-0.423772929	PASS
FBN2	5	128257909	128659185	-0.393084436	PASS
FBN3	19	8065402	8149846	-0.071973357	PASS
FBP1	9	94603133	94640249	0.073960965	PASS
FBP2	9	94558720	94593793	0.073960965	PASS
FBRS	16	30658431	30670814	0.053595371	PASS
FBRSL1	12	132489551	132585188	0.028722739	PASS
FBXL12	19	9810267	9827816	-0.107594294	PASS
FBXL13	7	102813230	103074843	-0.712149877	PASS
FBXL14	12	1565993	1594165	-0.015029783	PASS
FBXL15	10	102419189	102423136	-0.414937136	PASS
FBXL16	16	692498	705829	0.053595371	PASS
FBXL17	5	107859035	108382098	-0.393084436	PASS
FBXL18	7	5431335	5513798	-0.72421718	PASS
FBXL19	16	30923055	30948783	0.053595371	PASS
FBXL2	3	33277025	33403662	0.06149513	PASS
FBXL20	17	39252644	39402523	0.041294512	PASS
FBXL22	15	63597353	63602428	-0.759380635	PASS
FBXL3	13	76992598	77027195	-0.384313056	PASS
FBXL4	6	98868538	98948006	-0.355603029	PASS
FBXL5	4	15604539	15681679	-0.358623662	PASS
FBXL6	8	144355431	144359376	0.699132336	PASS
FBXL7	5	15500196	15939795	0.073527871	PASS
FBXL8	16	67159931	67164570	-0.423061015	PASS
FBXO10	9	37510892	37576349	0.073960965	PASS
FBXO11	2	47789316	47905793	0.034263343	PASS
FBXO15	18	74073353	74147865	-0.330515409	PASS
FBXO16	8	28348287	28490318	-0.311940419	PASS
FBXO17	19	38941401	38975910	0.048917043	PASS
FBXO2	1	11637018	11655785	0.364796772	PASS
FBXO21	12	117141988	117190531	0.028722739	PASS
FBXO22	15	75903859	75942510	-0.759380635	PASS
FBXO24	7	100583982	100601117	-0.710463272	PASS
FBXO25	8	406428	477967	-0.311940419	PASS
FBXO27	19	38990714	39032785	0.048917043	PASS
FBXO28	1	224114087	224162047	-0.204996646	suppress_segment_too_large
FBXO3	11	33740939	33774543	-0.359426047	PASS
FBXO30	6	145793502	145814753	0.033894706	PASS
FBXO31	16	87326987	87392142	-0.423061015	PASS
FBXO32	8	123497889	123541206	0.493344802	suppress_segment_too_large
FBXO33	14	39397669	39432500	0.053252507	PASS
FBXO34	14	55271303	55361918	0.053252507	PASS
FBXO36	2	229922302	230013109	0.011001208	PASS
FBXO38	5	148383935	148442836	-0.393084436	PASS
FBXO39	17	6776223	6797101	0.06854245	PASS
FBXO4	5	41925254	41941743	-0.284712224	PASS
FBXO40	3	121593119	121630295	0.06434429	PASS
FBXO41	2	73254682	73284431	-0.46122572	PASS
FBXO42	1	16246839	16352454	0.048749694	PASS

FBXO43	8	100133360	100145800	0.355469066	suppress_segment_too_large
FBXO44	1	11654375	11663327	0.364796772	PASS
FBXO45	3	196568611	196589059	0.02267528	PASS
FBXO46	19	45710629	45730904	0.002743503	PASS
FBXO47	17	38936432	38967402	0.041294512	PASS
FBXO48	2	68459419	68467258	-0.46122572	PASS
FBXO5	6	152970519	152983579	0.033894706	PASS
FBXO6	1	11664124	11674354	0.364796772	PASS
FBXO7	22	32474676	32498829	-0.740245994	PASS
FBXO8	4	174236658	174284264	0.142431244	suppress_segment_too_large
FBXO9	6	53051991	53100873	0.239805577	suppress_segment_too_large
FBXW10	17	18744024	18779349	0.06854245	PASS
FBXW11	5	171861549	172006873	0.165341871	suppress_segment_too_large
FBXW12	3	48372219	48401259	-0.727808231	PASS
FBXW2	9	120751978	120793412	0.073960965	PASS
FBXW4	10	101610664	101695295	-0.414937136	PASS
FBXW5	9	136940435	136944696	0.073960965	PASS
FBXW7	4	152320544	152536063	0.142431244	suppress_segment_too_large
FBXW8	12	116910956	117031148	0.028722739	PASS
FBXW9	19	12688053	12696643	-0.069222905	PASS
FCAMR	1	206957965	206970625	-0.204996646	suppress_segment_too_large
FCAR	19	54874248	54890472	0.142581352	PASS
FCER1A	1	159289714	159308224	0.088103245	PASS
FCER1G	1	161215234	161220699	0.088103245	PASS
FCER2	19	7688758	7702146	-0.071973357	PASS
FCF1	14	74713144	74738620	-0.155273506	suppress_segment_too_large
FCGBP	19	39863323	39934626	0.048917043	PASS
FCGR1A	1	149782671	149792518	0.079255572	PASS
FCGR1B	1	121087345	121096310	0.079255572	PASS
FCGR2A	1	161505430	161524013	0.088103245	PASS
FCGR2B	1	161663147	161678654	0.088103245	PASS
FCGR3A	1	161541759	161550737	0.088103245	PASS
FCGR3B	1	161623196	161631963	0.088103245	PASS
FCGRT	19	49506816	49526333	0.002743503	PASS
FCHO1	19	17747718	17788568	-0.069222905	PASS
FCHO2	5	72955981	73090522	-0.393084436	PASS
FCHSD1	5	141639302	141651419	-0.393084436	PASS
FCHSD2	11	72836745	73142261	0.064535884	PASS
FCMR	1	206904386	206923247	-0.204996646	suppress_segment_too_large
FCN1	9	134905890	134917963	0.073960965	PASS
FCN2	9	134880812	134887520	0.073960965	PASS
FCN3	1	27369112	27374824	0.048749694	PASS
FCRL1	1	157794403	157820105	0.088103245	PASS
FCRL2	1	157745733	157777132	0.088103245	PASS
FCRL3	1	157674321	157700857	0.088103245	PASS
FCRL4	1	157573749	157598080	0.088103245	PASS
FCRL5	1	157513377	157552520	0.088103245	PASS
FCRL6	1	159800511	159816251	0.088103245	PASS
FCRLA	1	161706972	161714352	0.088103245	PASS
FCRLB	1	161721563	161728143	0.088103245	PASS
FDCSP	4	70226071	70235252	0.115781418	suppress_segment_too_large
FDFT1	8	11795573	11839309	-0.311940419	PASS
FDPS	1	155308748	155320666	0.088103245	PASS
FDX1	11	110429883	110464881	-0.431650509	PASS

FDX2	19	10310045	10316015	-0.107594294	PASS
FDXACB1	11	111874056	111881243	-0.431650509	PASS
FDXR	17	74862497	74873031	0.051798665	PASS
FECH	18	57548283	57586772	-0.330515409	PASS
FEM1A	19	4791681	4801273	-0.071973357	PASS
FEM1B	15	68277803	68295865	-0.759380635	PASS
FEM1C	5	115520908	115544894	-0.393084436	PASS
FEN1	11	61792637	61797244	0.064535884	PASS
FER	5	108747822	109196841	-0.393084436	PASS
FER1L5	2	96642737	96704887	0.064122364	PASS
FER1L6	8	123851987	124120061	0.493344802	suppress_segment_too_large
FERD3L	7	19144782	19145421	-0.72421718	PASS
FERMT1	20	6074845	6123544	-0.172056771	suppress_segment_too_large
FERMT2	14	52857268	52952435	0.053252507	PASS
FERMT3	11	64206678	64223886	0.064535884	PASS
FES	15	90883695	90895776	-0.759380635	PASS
FETUB	3	186635969	186653141	0.02267528	PASS
FEV	2	218981087	218985657	0.011001208	PASS
FEZ1	11	125442881	125592568	-0.431650509	PASS
FEZ2	2	36531805	36646087	0.034263343	PASS
FEZF1	7	122301394	122310691	-0.712149877	PASS
FEZF2	3	62369681	62374324	-0.727808231	PASS
FFAR1	19	35351552	35353862	0.044838622	PASS
FFAR2	19	35443907	35451767	0.044838622	PASS
FFAR3	19	35358460	35360485	0.044838622	PASS
FFAR4	10	93566665	93604480	-0.414937136	PASS
FGA	4	154583126	154590766	0.142431244	suppress_segment_too_large
FGB	4	154562956	154571086	0.142431244	suppress_segment_too_large
FGD1	23	54445454	54496166	0.158844052	PASS
FGD2	6	37005646	37029070	0.028532667	PASS
FGD3	9	92947451	93036236	0.073960965	PASS
FGD4	12	32399529	32646050	0.49032213	suppress_segment_too_large
FGD5	3	14810853	14934565	0.06149513	PASS
FGD6	12	95076749	95217482	0.028722739	PASS
FGF1	5	142592178	142698070	-0.393084436	PASS
FGF10	5	44303544	44389706	-0.284712224	PASS
FGF11	17	7438273	7444937	0.06854245	PASS
FGF12	3	192139395	192767764	0.02267528	PASS
FGF13	23	138614731	139222777	0.158844052	PASS
FGF14	13	101710804	102402457	-0.384313056	PASS
FGF16	23	77447405	77457278	0.158844052	PASS
FGF17	8	22042398	22048809	-0.311940419	PASS
FGF18	5	171419656	171457623	0.165341871	suppress_segment_too_large
FGF19	11	69698232	69704642	0.064535884	PASS
FGF2	4	122826708	122898236	0.142431244	suppress_segment_too_large
FGF20	8	16992169	17002181	-0.311940419	PASS
FGF21	19	48755559	48758333	0.002743503	PASS
FGF22	19	639879	644371	-0.071973357	PASS
FGF23	12	4368227	4379728	-0.015029783	PASS
FGF3	11	69809969	69819024	0.064535884	PASS
FGF4	11	69771016	69775403	0.064535884	PASS
FGF5	4	80266599	80336680	-0.677982248	PASS
FGF6	12	4428155	4445614	-0.015029783	PASS
FGF7	15	49423096	49488775	-0.423772929	PASS

FGF8	10	101770130	101780369	-0.414937136	PASS
FGF9	13	21671383	21704498	-0.398748891	PASS
FGFBP1	4	15935569	15938740	-0.358623662	PASS
FGFBP2	4	15960243	15969309	-0.358623662	PASS
FGFBP3	10	91906589	91909483	-0.414937136	PASS
FGFR1	8	38400215	38468834	0.182873287	suppress_segment_too_large
FGFR1OP	6	166999182	167094789	0.033894706	PASS
FGFR1OP2	12	26938383	26966650	0.49032213	suppress_segment_too_large
FGFR2	10	121478334	121598458	0.073090211	PASS
FGFR3	4	1793293	1808872	-0.358623662	PASS
FGFR4	5	177086886	177098144	0.165341871	suppress_segment_too_large
FGFRL1	4	1009936	1026897	-0.358623662	PASS
FGG	4	154604134	154612967	0.142431244	suppress_segment_too_large
FGGY	1	59296638	59810647	-0.736943052	PASS
FGL1	8	17864380	17910365	-0.311940419	PASS
FGL2	7	77193371	77199848	-0.701511252	PASS
FGR	1	27612064	27635277	0.048749694	PASS
FH	1	241497603	241519761	-0.287484925	PASS
FHAD1	1	15247272	15400283	0.048749694	PASS
FHDC1	4	152936352	152979696	0.142431244	suppress_segment_too_large
FHIT	3	59749310	61251459	-0.727808231	PASS
FHL1	23	136146702	136211359	0.158844052	PASS
FHL2	2	105357712	105438513	-0.439572519	PASS
FHL3	1	37996770	38005606	0.048749694	PASS
FHL5	6	96562548	96616636	-0.355603029	PASS
FHOD1	16	67229387	67247658	-0.423061015	PASS
FHOD3	18	36297714	36780055	-0.330515409	PASS
FIBCD1	9	130902438	130939286	0.073960965	PASS
FIBIN	11	26994184	26996121	-0.359426047	PASS
FIBP	11	65883741	65888539	0.064535884	PASS
FICD	12	108515185	108525837	0.028722739	PASS
FIG4	6	109691312	109825428	-0.355603029	PASS
FIGLA	2	70777310	70790643	-0.46122572	PASS
FIGN	2	163593396	163736012	0.319987345	PASS
FIGNL1	7	50444128	50542535	-0.701511252	PASS
FIGNL2	12	51817840	51848766	-0.743220499	PASS
FILIP1	6	75291859	75493738	-0.250122709	PASS
FILIP1L	3	99830141	100114513	0.22470242	PASS
FIP1L1	4	53377643	53460861	0.115781418	suppress_segment_too_large
FIS1	7	101239458	101252316	-0.712149877	PASS
FITM1	14	24131275	24132849	0.053252507	PASS
FITM2	20	44302838	44311169	-0.172056771	suppress_segment_too_large
FIZ1	19	55591371	55601970	0.142581352	PASS
FJX1	11	35618419	35620868	-0.359426047	PASS
FKBP10	17	41812680	41823217	0.041294512	PASS
FKBP11	12	48921518	48926474	-0.743220499	PASS
FKBP14	7	30010587	30026684	-0.72421718	PASS
FKBP15	9	113161006	113221361	0.073960965	PASS
FKBP1A	20	1368978	1393172	-0.172056771	suppress_segment_too_large
FKBP1B	2	24049701	24063681	0.034263343	PASS
FKBP1C	6	63211446	63213024	0.239805577	suppress_segment_too_large
FKBP2	11	64241003	64244132	0.064535884	PASS
FKBP3	14	45115600	45135319	0.053252507	PASS
FKBP4	12	2794953	2805423	-0.015029783	PASS

FKBP5	6	35573585	35728583	0.028532667	PASS
FKBP6	7	73328164	73358637	-0.701511252	PASS
FKBP7	2	178463664	178478600	0.033541467	PASS
FKBP8	19	18531751	18544077	-0.069222905	PASS
FKBP9	7	32957404	33006931	-0.72421718	PASS
FKBPL	6	32128707	32130291	0.028532667	PASS
FKRP	19	46746046	46776988	0.002743503	PASS
FKTN	9	105558130	105641118	0.073960965	PASS
FLAD1	1	154983338	154993111	0.088103245	PASS
FLCN	17	17212212	17237188	0.06854245	PASS
FLG	1	152302175	152325203	0.546958914	PASS
FLG2	1	152348735	152360006	0.546958914	PASS
FLI1	11	128686535	128813267	-0.431650509	PASS
FLII	17	18244836	18258916	0.06854245	PASS
FLNA	23	154348524	154374638	0.158844052	PASS
FLNB	3	58008400	58172251	-0.727808231	PASS
FLNC	7	128830377	128859274	-0.712149877	PASS
FLOT1	6	30727709	30742733	0.069043418	PASS
FLOT2	17	28879335	28897679	0.041294512	PASS
FLRT1	11	64103188	64119173	0.064535884	PASS
FLRT2	14	85530144	85654426	-0.155273506	suppress_segment_too_large
FLRT3	20	14322988	14337616	-0.172056771	suppress_segment_too_large
FLT1	13	28300344	28495145	-0.398748891	PASS
FLT3	13	28003274	28100592	-0.398748891	PASS
FLT3LG	19	49474207	49486231	0.002743503	PASS
FLT4	5	180601506	180649624	0.165341871	suppress_segment_too_large
FLVCR1	1	212858255	212899363	-0.204996646	suppress_segment_too_large
FLVCR2	14	75578617	75663214	-0.155273506	suppress_segment_too_large
FLYWCH1	16	2911937	2951208	0.053595371	PASS
FLYWCH2	16	2883186	2899382	0.053595371	PASS
FMC1	7	139339457	139346319	-0.712149877	PASS
FMN1	15	32765545	33194733	-0.423772929	PASS
FMN2	1	240014348	240475189	-0.287484925	PASS
FMNL1	17	45221444	45247320	0.051798665	PASS
FMNL2	2	152335237	152649834	-0.30549516	PASS
FMNL3	12	49636499	49708165	-0.743220499	PASS
FMO1	1	171248471	171285978	0.088103245	PASS
FMO2	1	171185208	171211230	0.088103245	PASS
FMO3	1	171090877	171117819	0.088103245	PASS
FMO4	1	171314208	171342084	0.088103245	PASS
FMO5	1	147175351	147243050	0.079255572	PASS
FMOD	1	203340628	203351758	-0.204996646	suppress_segment_too_large
FMR1	23	147911951	147951125	0.158844052	PASS
FMR1NB	23	147981329	148026667	0.158844052	PASS
FN1	2	215360440	215436172	0.011001208	PASS
FN3K	17	82735575	82751197	0.051798665	PASS
FN3KRP	17	82716683	82730328	0.051798665	PASS
FNBP1	9	129887187	130043194	0.073960965	PASS
FNBP1L	1	93448131	93554661	0.079255572	PASS
FNBP4	11	47716517	47767443	0.059795455	PASS
FNDC1	6	159169397	159272109	0.033894706	PASS
FNDC10	1	1598012	1600096	-0.358281697	PASS
FNDC11	20	63547891	63556708	-0.172056771	suppress_segment_too_large
FNDC3A	13	48975912	49209779	-0.384313056	PASS

FNDC3B	3	172039628	172401665	0.02267528	PASS
FNDC4	2	27491883	27495245	0.034263343	PASS
FNDC5	1	32862268	32872482	0.048749694	PASS
FNDC7	1	108712657	108742740	0.079255572	PASS
FNDC8	17	35121579	35130732	0.041294512	PASS
FNDC9	5	157341600	157345721	0.165341871	suppress_segment_too_large
FNIP1	5	131641714	131797063	-0.393084436	PASS
FNIP2	4	158769138	158908049	0.142431244	suppress_segment_too_large
FNTA	8	43034194	43085788	0.182873287	suppress_segment_too_large
FNTB	14	64986720	65062652	0.053252507	PASS
FO393400.	20	32632183	32743567	-0.172056771	suppress_segment_too_large
FO681492.	10	47750864	47763592	-0.389033546	PASS
FOCAD	9	20658309	20995955	0.073960965	PASS
FOLH1	11	49146635	49208670	-0.210195174	PASS
FOLR1	11	72189558	72196323	0.064535884	PASS
FOLR2	11	72216601	72221950	0.064535884	PASS
FOLR3	11	72114869	72139892	0.064535884	PASS
FOPNL	16	15865720	15888625	0.053595371	PASS
FOS	14	75278774	75282230	-0.155273506	suppress_segment_too_large
FOSB	19	45467995	45475179	0.002743503	PASS
FOSL1	11	65892049	65900573	0.064535884	PASS
FOSL2	2	28392448	28417312	0.034263343	PASS
FOXA1	14	37589984	37596059	0.053252507	PASS
FOXA2	20	22581005	22585455	-0.172056771	suppress_segment_too_large
FOXA3	19	45863989	45873797	0.002743503	PASS
FOXB1	15	60004222	60061730	-0.759380635	PASS
FOXB2	9	77019655	77020953	0.073960965	PASS
FOXC1	6	1609972	1613897	0.069043418	PASS
FOXC2	16	86566829	86569728	-0.423061015	PASS
FOXD1	5	73444827	73448527	-0.393084436	PASS
FOXD2	1	47436017	47440691	-0.736943052	PASS
FOXD3	1	63323041	63325126	0.052232535	PASS
FOXD4	9	116231	118204	0.073960965	PASS
FOXD4L1	2	113498665	113501155	0.040971718	PASS
FOXD4L3	9	68302867	68304905	0.073960965	PASS
FOXD4L4	9	65736555	65738784	0.073960965	PASS
FOXD4L5	9	65282101	65285209	0.073960965	PASS
FOXD4L6	9	41126430	41128463	0.073960965	PASS
FOXE1	9	97853254	97856715	0.073960965	PASS
FOXE3	1	47416072	47418052	-0.736943052	PASS
FOXF1	16	86510527	86515418	-0.423061015	PASS
FOXF2	6	1389576	1395603	0.069043418	PASS
FOXG1	14	28760330	28770277	0.053252507	PASS
FOXH1	8	144473412	144476335	0.699132336	PASS
FOXI1	5	170105897	170109725	0.165341871	suppress_segment_too_large
FOXI2	10	127737235	127741186	0.073090211	PASS
FOXI3	2	88446787	88452656	0.064122364	PASS
FOXJ1	17	76136333	76141299	0.051798665	PASS
FOXJ2	12	8032703	8055503	-0.015029783	PASS
FOXJ3	1	42176539	42335877	-0.736943052	PASS
FOXK1	7	4682309	4771443	-0.72421718	PASS
FOXK2	17	82519713	82644662	0.051798665	PASS
FOXL1	16	86576368	86582160	-0.423061015	PASS
FOXL2	3	138944224	138947140	0.06434429	PASS

FOXL2NB	3	138947234	138953451	0.06434429	PASS
FOXM1	12	2857681	2877155	-0.015029783	PASS
FOXN1	17	28506243	28538896	0.041294512	PASS
FOXN2	2	48314637	48379294	0.034263343	PASS
FOXN3	14	89124871	89619149	-0.155273506	suppress_segment_too_large
FOXN4	12	109277979	109309220	0.028722739	PASS
FOXO1	13	40469953	40666597	-0.398748891	PASS
FOXO3	6	108559835	108684774	-0.355603029	PASS
FOXO4	23	71096197	71103535	0.158844052	PASS
FOXO6	1	41361922	41383590	-0.736943052	PASS
FOXP1	3	70952817	71583993	-0.727808231	PASS
FOXP2	7	114086327	114693772	-0.712149877	PASS
FOXP3	23	49250436	49264826	0.158844052	PASS
FOXP4	6	41546426	41602384	0.028532667	PASS
FOXQ1	6	1312440	1314748	0.069043418	PASS
FOXR1	11	118971707	118981291	-0.431650509	PASS
FOXR2	23	55623400	55625325	0.158844052	PASS
FOXRED1	11	126269055	126278131	-0.431650509	PASS
FOXRED2	22	36487190	36507101	-0.740245994	PASS
FOXS1	20	31844301	31845619	-0.172056771	suppress_segment_too_large
FP565260.	21	5130871	5154734	0.220071762	PASS
FP565260.:	21	5116343	5133805	0.220071762	PASS
FP565260.:	21	5022493	5040666	0.220071762	PASS
FPGS	9	127794597	127814327	0.073960965	PASS
FPGT	1	74198212	74234086	0.052232535	PASS
FPGT-TNN	1	74198235	74544393	0.052232535	PASS
FPR1	19	51745172	51804110	0.002743503	PASS
FPR2	19	51752026	51770526	0.416834572	PASS
FPR3	19	51795163	51826189	0.416834572	PASS
FRA10AC	10	93667883	93702572	-0.414937136	PASS
FRAS1	4	78057570	78544269	-0.677982248	PASS
FRAT1	10	97319267	97321915	-0.414937136	PASS
FRAT2	10	97332497	97334709	-0.414937136	PASS
FREM1	9	14734666	14910995	0.073960965	PASS
FREM2	13	38687129	38887131	-0.398748891	PASS
FREM3	4	143577302	143700675	0.142431244	suppress_segment_too_large
FRG1	4	189940788	189963204	0.275137421	PASS
FRG2	4	190024351	190027257	0.275137421	PASS
FRG2B	10	133623895	133626795	0.073090211	PASS
FRG2C	3	75664330	75667220	-0.727808231	PASS
FRK	6	115931149	116060758	-0.355603029	PASS
FRMD1	6	168053166	168101511	0.033894706	PASS
FRMD3	9	83242990	83538546	0.073960965	PASS
FRMD4A	10	13643706	14462142	0.075711544	PASS
FRMD4B	3	69169990	69542583	-0.727808231	PASS
FRMD5	15	43870761	44195252	-0.423772929	PASS
FRMD6	14	51489100	51730727	0.053252507	PASS
FRMD7	23	132076993	132128020	0.158844052	PASS
FRMD8	11	65386599	65413525	0.064535884	PASS
FRMPD1	9	37651000	37746904	0.073960965	PASS
FRMPD2	10	48153088	48274870	-0.389033546	PASS
FRMPD3	23	107522450	107605251	0.158844052	PASS
FRMPD4	23	12138466	12724523	0.158844052	PASS
FRRS1	1	99708632	99766631	0.079255572	PASS

FRRS1L	9	109130293	109167295	0.073960965	PASS
FRS2	12	69470349	69579789	-0.743220499	PASS
FRS3	6	41770176	41786542	0.028532667	PASS
FRY	13	31846713	32299122	-0.398748891	PASS
FRYL	4	48497361	48780322	0.115781418	suppress_segment_too_large
FRZB	2	182833275	182867162	-0.120408457	PASS
FSBP	8	94372170	94436952	0.355469066	suppress_segment_too_large
FSCB	14	44504342	44507279	0.053252507	PASS
FSCN1	7	5592823	5606655	-0.72421718	PASS
FSCN2	17	81528396	81537130	0.051798665	PASS
FSCN3	7	127591409	127602144	-0.712149877	PASS
FSD1	19	4304600	4323843	-0.071973357	PASS
FSD1L	9	105447796	105552433	0.073960965	PASS
FSD2	15	82755362	82806070	-0.759380635	PASS
FSHB	11	30231016	30235261	-0.359426047	PASS
FSHR	2	48962157	49154537	0.034263343	PASS
FSIP1	15	39588357	39782830	-0.423772929	PASS
FSIP2	2	185738895	185833290	-0.120408457	PASS
FST	5	53480409	53487134	-0.284712224	PASS
FSTL1	3	120392293	120451253	0.06434429	PASS
FSTL3	19	676365	683399	-0.071973357	PASS
FSTL4	5	133196455	133612564	-0.393084436	PASS
FSTL5	4	161383897	162164035	0.142431244	suppress_segment_too_large
FTCD	21	46136262	46155567	0.209983559	PASS
FTCDNL1	2	199760544	199851173	0.011001208	PASS
FTH1	11	61959718	61967660	0.064535884	PASS
FTHL17	23	31071241	31072053	0.158844052	PASS
FTL	19	48965301	48966878	0.002743503	PASS
FTMT	5	121851955	121852833	-0.393084436	PASS
FTO	16	53701692	54158512	-0.423061015	PASS
FTSJ1	23	48476021	48486364	0.158844052	PASS
FTSJ3	17	63819433	63830012	0.051798665	PASS
FUBP1	1	77944055	77979110	0.052232535	PASS
FUBP3	9	130578965	130638352	0.073960965	PASS
FUCA1	1	23845077	23868294	0.048749694	PASS
FUCA2	6	143494811	143511690	0.033894706	PASS
FUK	16	70454421	70480274	-0.423061015	PASS
FUNDC1	23	44523639	44543001	0.158844052	PASS
FUNDC2	23	155025980	155060303	0.158844052	PASS
FUOM	10	133355154	133358035	0.073090211	PASS
FURIN	15	90868592	90883458	-0.759380635	PASS
FUS	16	31180110	31194871	0.053595371	PASS
FUT1	19	48748011	48755390	0.002743503	PASS
FUT10	8	33370824	33473422	-0.311940419	PASS
FUT11	10	73772291	73780251	0.032351597	PASS
FUT2	19	48695971	48705950	0.002743503	PASS
FUT3	19	5842888	5851474	-0.071973357	PASS
FUT4	11	94543840	94549898	0.064535884	PASS
FUT5	19	5865826	5870540	-0.071973357	PASS
FUT6	19	5830610	5839731	-0.071973357	PASS
FUT7	9	137030174	137033010	0.073960965	PASS
FUT8	14	65410592	65744121	0.053252507	PASS
FUT9	6	96015984	96215612	-0.355603029	PASS
FUZ	19	49806869	49817376	0.002743503	PASS

FXN	9	69035259	69120427	0.073960965	PASS
FXR1	3	180868141	180982753	0.02267528	PASS
FXR2	17	7591230	7614871	0.06854245	PASS
FXYD1	19	35138808	35143109	0.044838622	PASS
FXYD2	11	117800844	117828698	-0.431650509	PASS
FXYD3	19	35115879	35124324	0.044838622	PASS
FXYD4	10	43371642	43376335	-0.389033546	PASS
FXYD5	19	35154730	35169883	0.044838622	PASS
FXYD6	11	117836976	117877486	-0.431650509	PASS
FXYD6-F	11	117820163	117876667	-0.431650509	PASS
FXYD7	19	35143250	35154301	0.044838622	PASS
FYB1	5	39105255	39274528	0.073527871	PASS
FYB2	1	56718804	56819696	-0.736943052	PASS
FYCO1	3	45917899	45995824	-0.727808231	PASS
FYN	6	111660332	111873452	-0.355603029	PASS
FYTTD1	3	197737179	197787596	0.02267528	PASS
FZD1	7	91264364	91271326	-0.710463272	PASS
FZD10	12	130162459	130165740	0.028722739	PASS
FZD2	17	44557459	44559570	0.051798665	PASS
FZD3	8	28494205	28574268	-0.311940419	PASS
FZD4	11	86945679	86955391	0.064535884	PASS
FZD5	2	207762586	207769563	0.011001208	PASS
FZD6	8	103298433	103332866	0.355469066	suppress_segment_too_large
FZD7	2	202034587	202038445	0.011001208	PASS
FZD8	10	35638249	35642278	0.075711544	PASS
FZD9	7	73433783	73436120	-0.701511252	PASS
FZR1	19	3506273	3538330	-0.071973357	PASS
G0S2	1	209675420	209676388	-0.204996646	suppress_segment_too_large
G2E3	14	30559123	30620063	0.053252507	PASS
G3BP1	5	151771045	151812785	-0.393084436	PASS
G3BP2	4	75642782	75724525	-0.677982248	PASS
G6PC	17	42900797	42913369	0.041294512	PASS
G6PC2	2	168901240	168910000	0.033541467	PASS
G6PC3	17	44070735	44076344	0.051798665	PASS
G6PD	23	154531390	154547572	0.158844052	PASS
GAA	17	80101556	80119879	0.051798665	PASS
GAB1	4	143336762	143474568	0.142431244	suppress_segment_too_large
GAB2	11	78215297	78418348	0.064535884	PASS
GAB3	23	154675249	154751583	0.158844052	PASS
GAB4	22	16961936	17008222	-0.740245994	PASS
GABARAI	17	7240014	7242770	0.06854245	PASS
GABARAI	12	10212458	10223130	0.505438545	PASS
GABARAI	16	75566351	75577881	-0.423061015	PASS
GABBR1	6	29555629	29633976	0.069043418	PASS
GABBR2	9	98288082	98709197	0.073960965	PASS
GABPA	21	25734570	25772460	0.209983559	PASS
GABPB1	15	50275392	50355408	-0.423772929	PASS
GABPB2	1	151070578	151125542	0.079255572	PASS
GABRA1	5	161847063	161899981	0.165341871	suppress_segment_too_large
GABRA2	4	46248427	46475230	0.115781418	suppress_segment_too_large
GABRA3	23	152166234	152451358	0.158844052	PASS
GABRA4	4	46918900	46994407	0.115781418	suppress_segment_too_large
GABRA5	15	26866363	26949207	-0.423772929	PASS
GABRA6	5	161547063	161702593	0.165341871	suppress_segment_too_large

GABRB1	4	46993723	47426444	0.115781418	suppress_segment_too_large
GABRB2	5	161288429	161549044	0.165341871	suppress_segment_too_large
GABRB3	15	26543546	26939539	-0.423772929	PASS
GABRD	1	2019298	2030758	-0.358281697	PASS
GABRE	23	151953124	151974680	0.158844052	PASS
GABRG1	4	46035769	46124081	-0.317525751	PASS
GABRG2	5	162000057	162162977	0.165341871	suppress_segment_too_large
GABRG3	15	26971282	27541991	-0.423772929	PASS
GABRP	5	170763350	170814047	0.165341871	suppress_segment_too_large
GABRQ	23	152638183	152657534	0.158844052	PASS
GABRR1	6	89177501	89231278	-0.355603029	PASS
GABRR2	6	89257208	89315299	-0.355603029	PASS
GABRR3	3	97986673	98035304	0.22470242	PASS
GAD1	2	170813213	170861151	0.033541467	PASS
GAD2	10	26216307	26304558	0.075711544	PASS
GADD45A	1	67685061	67688338	0.052232535	PASS
GADD45B	19	2476122	2478259	-0.071973357	PASS
GADD45G	9	89605013	89606555	0.073960965	PASS
GADD45G	19	12953119	12957236	-0.069222905	PASS
GADL1	3	30726200	30894765	0.06149513	PASS
GAGE1	23	49589496	49608536	0.158844052	PASS
GAGE10	23	49303669	49319844	0.158844052	PASS
GAGE12J	23	49322057	49329384	0.158844052	PASS
GAGE2A	23	49589529	49596827	0.158844052	PASS
GAGE2E	23	49341192	49345922	0.158844052	PASS
GAK	4	849276	932373	-0.358623662	PASS
GAL	11	68683779	68691175	0.064535884	PASS
GAL3ST1	22	30554635	30574587	-0.740245994	PASS
GAL3ST3	11	66041952	66049180	0.064535884	PASS
GAL3ST4	7	100159244	100168750	-0.710463272	PASS
GALC	14	87837820	87993665	-0.155273506	suppress_segment_too_large
GALE	1	23795599	23800804	0.048749694	PASS
GALK1	17	75751594	75765711	0.051798665	PASS
GALK2	15	49155656	49367869	-0.423772929	PASS
GALM	2	38665910	38741237	0.034263343	PASS
GALNS	16	88813734	88856970	-0.423061015	PASS
GALNT1	18	35581117	35711834	-0.330515409	PASS
GALNT10	5	154190730	154420984	-0.393084436	PASS
GALNT11	7	152025674	152122347	-0.712149877	PASS
GALNT12	9	98807699	98850081	0.073960965	PASS
GALNT13	2	153871913	154453849	-0.30549516	PASS
GALNT14	2	30910467	31155202	0.034263343	PASS
GALNT15	3	16174649	16231992	0.06149513	PASS
GALNT16	14	69259277	69357033	0.053252507	PASS
GALNT17	7	71132169	71713600	-0.701511252	PASS
GALNT18	11	11270876	11622005	-0.39835217	PASS
GALNT2	1	230057990	230282124	-0.204996646	suppress_segment_too_large
GALNT3	2	165747591	165794682	0.319987345	PASS
GALNT4	12	89519408	89524806	0.271127429	suppress_segment_too_large
GALNT5	2	157257598	157314211	-0.30549516	PASS
GALNT6	12	51351247	51392867	-0.743220499	PASS
GALNT7	4	173168753	173323967	0.142431244	suppress_segment_too_large
GALNT8	12	4720341	4851927	-0.015029783	PASS
GALNT9	12	132196372	132329349	0.028722739	PASS

GALNTL5	7	151956379	152019934	-0.712149877	PASS
GALNTL6	4	171812254	173041559	0.142431244	suppress_segment_too_large
GALP	19	56176020	56185775	0.142581352	PASS
GALR1	18	77250549	77277896	-0.330515409	PASS
GALR2	17	76074794	76077541	0.051798665	PASS
GALR3	22	37823382	37825495	-0.740245994	PASS
GALT	9	34638133	34651035	0.073960965	PASS
GAMT	19	1397026	1401570	-0.071973357	PASS
GAN	16	81314947	81390884	-0.423061015	PASS
GANAB	11	62624826	62646726	0.064535884	PASS
GANC	15	42273233	42356935	-0.423772929	PASS
GAP43	3	115623324	115721490	0.06434429	PASS
GAPDH	12	6533927	6538374	-0.015029783	PASS
GAPDHS	19	35533412	35545316	0.044838622	PASS
GAPT	5	58491435	58497090	-0.284712224	PASS
GAPVD1	9	125261794	125367207	0.073960965	PASS
GAR1	4	109815510	109824740	-0.677982248	PASS
GAREM1	18	32124877	32470484	-0.330515409	PASS
GAREM2	2	26173091	26189663	0.034263343	PASS
GARNL3	9	127224265	127393660	0.073960965	PASS
GARS	7	30594681	30634033	-0.72421718	PASS
GART	21	33503931	33543491	0.209983559	PASS
GAS1	9	86944363	86947189	0.073960965	PASS
GAS2	11	22625509	22813055	-2.208422516	PASS
GAS2L1	22	29306582	29312785	-0.740245994	PASS
GAS2L2	17	35744511	35752878	0.041294512	PASS
GAS2L3	12	100573683	100628286	0.028722739	PASS
GAS6	13	113820549	113864067	-0.426822582	PASS
GAS7	17	9910609	10198551	0.06854245	PASS
GAS8	16	90019629	90044975	-0.423061015	PASS
GAST	17	41712326	41715969	0.041294512	PASS
GATA1	23	48786554	48794311	0.158844052	PASS
GATA2	3	128479427	128493185	0.06434429	PASS
GATA3	10	8045378	8075203	0.075711544	PASS
GATA4	8	11676959	11760002	-0.311940419	PASS
GATA5	20	62463497	62475970	-0.172056771	suppress_segment_too_large
GATA6	18	22169443	22202528	-0.330515409	PASS
GATAD1	7	92447448	92459432	-0.710463272	PASS
GATAD2A	19	19385826	19508931	-0.069222905	PASS
GATAD2B	1	153789030	153923360	0.088103245	PASS
GATB	4	151670504	151761023	0.142431244	suppress_segment_too_large
GATC	12	120446438	120463749	0.028722739	PASS
GATD1	11	767220	777488	-0.39835217	PASS
GATD3B	21	5079294	5128425	0.220071762	PASS
GATM	15	45361124	45402327	-0.423772929	PASS
GBA	1	155234452	155244699	0.088103245	PASS
GBA2	9	35736866	35749228	0.073960965	PASS
GBE1	3	81489699	81762161	0.22470242	PASS
GBF1	10	102245532	102382899	-0.414937136	PASS
GBGT1	9	133152948	133163945	0.073960965	PASS
GBP1	1	89052319	89065360	0.079255572	PASS
GBP2	1	89106132	89150456	0.079255572	PASS
GBP3	1	89006666	89022894	0.079255572	PASS
GBP4	1	89181148	89198932	0.079255572	PASS

GBP5	1	89258950	89272804	0.079255572	PASS
GBP6	1	89364058	89386461	0.079255572	PASS
GBP7	1	89131751	89176040	0.079255572	PASS
GBX1	7	151148589	151174745	-0.712149877	PASS
GBX2	2	236165236	236168369	0.011001208	PASS
GC	4	71741693	71804041	0.115781418	suppress_segment_too_large
GCA	2	162318840	162371595	0.319987345	PASS
GCAT	22	37807905	37817176	-0.740245994	PASS
GCC1	7	127580618	127593611	-0.712149877	PASS
GCC2	2	108448561	108509415	0.040971718	PASS
GCDH	19	12891026	12914207	-0.069222905	PASS
GCFC2	2	75652000	75710989	-0.46122572	PASS
GCG	2	162142873	162152404	0.319987345	PASS
GCGR	17	81804132	81814013	0.051798665	PASS
GCH1	14	54842008	54902852	0.053252507	PASS
GCHFR	15	40764020	40767710	-0.423772929	PASS
GCK	7	44144271	44198170	-0.72421718	PASS
GCKR	2	27496842	27523684	0.034263343	PASS
GCLC	6	53497341	53616970	0.239805577	suppress_segment_too_large
GCLM	1	93885205	93909456	0.079255572	PASS
GCM1	6	53126964	53148829	0.239805577	suppress_segment_too_large
GCM2	6	10873223	10881941	0.069043418	PASS
GCN1	12	120127203	120194710	0.028722739	PASS
GCNA	23	71578411	71613583	0.158844052	PASS
GCNT1	9	76419850	76651203	0.073960965	PASS
GCNT2	6	10492223	10629368	0.069043418	PASS
GCNT3	15	59594875	59640239	-0.759380635	PASS
GCNT4	5	75025346	75030899	-0.393084436	PASS
GCNT7	20	56491492	56525925	-0.172056771	suppress_segment_too_large
GCOM1	15	57591908	57714745	-0.759380635	PASS
GCSAM	3	112120841	112133305	0.06434429	PASS
GCSAML	1	247507058	247577690	-0.145670469	suppress_likely_unfocal_large_gain
GCSAML-	1	247524679	247532613	-0.145670469	suppress_likely_unfocal_large_gain
GCSH	16	81081938	81096425	-0.423061015	PASS
GDA	9	72114595	72257193	0.073960965	PASS
GDAP1	8	74321130	74488872	0.182873287	suppress_segment_too_large
GDAP1L1	20	44247099	44280917	-0.172056771	suppress_segment_too_large
GDAP2	1	117863485	117929630	0.079255572	PASS
GDE1	16	19501689	19522145	0.053595371	PASS
GDF1	19	18868545	18896096	-0.069222905	PASS
GDF10	10	47300386	47313547	-0.389033546	PASS
GDF11	12	55743280	55757278	-0.743220499	PASS
GDF15	19	18374731	18389176	-0.069222905	PASS
GDF2	10	47322490	47326270	-0.389033546	PASS
GDF3	12	7689782	7695776	-0.015029783	PASS
GDF5	20	35433347	35454746	-0.172056771	suppress_segment_too_large
GDF6	8	96142330	96160792	0.355469066	suppress_segment_too_large
GDF7	2	20666664	20679245	0.034263343	PASS
GDF9	5	132861181	132866884	-0.393084436	PASS
GDI1	23	154436913	154443467	0.158844052	PASS
GDI2	10	5765223	5842132	0.075711544	PASS
GDNF	5	37812677	37839686	0.073527871	PASS
GDPD1	17	59220467	59275967	0.051798665	PASS
GDPD2	23	70423031	70433390	0.158844052	PASS

GDPD3	16	30104810	30113856	0.053595371	PASS
GDPD4	11	77216558	77301687	0.064535884	PASS
GDPD5	11	75434640	75525903	0.064535884	PASS
GDPGP1	15	90233808	90245811	-0.759380635	PASS
GEM	8	94249253	94262350	0.355469066	suppress_segment_too_large
GEMIN2	14	39114223	39136973	0.053252507	PASS
GEMIN4	17	744414	753999	0.06854245	PASS
GEMIN5	5	154887416	154938209	-0.393084436	PASS
GEMIN6	2	38751534	38785000	0.034263343	PASS
GEMIN7	19	45079195	45091524	0.002743503	PASS
GEMIN8	23	14008279	14029893	0.158844052	PASS
GEN1	2	17753858	17788941	0.034263343	PASS
GET4	7	876552	896436	-0.72421718	PASS
GFAP	17	44903161	44916937	0.051798665	PASS
GFER	16	1984207	1987749	0.053595371	PASS
GFI1	1	92474762	92486876	0.079255572	PASS
GFI1B	9	132944000	132991687	0.073960965	PASS
GFM1	3	158644278	158692575	0.02267528	PASS
GFM2	5	74721204	74767371	-0.393084436	PASS
GFOD1	6	13357830	13487662	0.069043418	PASS
GFOD2	16	67674531	67719421	-0.423061015	PASS
GFPT1	2	69319769	69387254	-0.46122572	PASS
GFPT2	5	180300690	180353387	0.165341871	suppress_segment_too_large
GFRA1	10	116056925	116273467	0.073090211	PASS
GFRA2	8	21690403	21812357	-0.311940419	PASS
GFRA3	5	138252379	138274671	-0.393084436	PASS
GFRA4	20	3659292	3663399	-0.172056771	suppress_segment_too_large
GFRAL	6	55327469	55402493	0.239805577	suppress_segment_too_large
GFY	19	49423749	49428818	0.002743503	PASS
GGA1	22	37608475	37633564	-0.740245994	PASS
GGA2	16	23463542	23521995	0.053595371	PASS
GGA3	17	75236599	75262363	0.051798665	PASS
GGACT	13	100530164	100589528	-0.384313056	PASS
GGCT	7	30496621	30504844	-0.72421718	PASS
GGCX	2	85544723	85561547	0.064122364	PASS
GGH	8	63015079	63039171	0.182873287	suppress_segment_too_large
GGN	19	38384265	38388082	0.048917043	PASS
GGNBP2	17	36544888	36589848	0.041294512	PASS
GGPS1	1	235327350	235344532	-0.204996646	suppress_segment_too_large
GGT1	22	24583750	24629005	-0.740245994	PASS
GGT5	22	24219654	24245142	-0.740245994	PASS
GGT6	17	4556927	4560818	0.06854245	PASS
GGT7	20	34844720	34872860	-0.172056771	suppress_segment_too_large
GGTLC1	20	23985050	23988779	-0.172056771	suppress_segment_too_large
GGTLC2	22	22644475	22647903	-0.740245994	PASS
GH1	17	63917200	63918838	0.051798665	PASS
GH2	17	63880215	63881935	0.051798665	PASS
GHDC	17	42188799	42194532	0.041294512	PASS
GHITM	10	84139440	84153245	0.032351597	PASS
GHR	5	42423777	42721878	-0.284712224	PASS
GHRH	20	37251082	37261835	-0.172056771	suppress_segment_too_large
GHRHR	7	30938669	30993254	-0.72421718	PASS
GHRL	3	10285675	10292947	0.06149513	PASS
GHSR	3	172445133	172448456	0.02267528	PASS

GID4	17	18039292	18068404	0.06854245	PASS
GID8	20	62938119	62948475	-0.172056771	suppress_segment_too_large
GIF	11	59829268	59845501	0.27006553	suppress_segment_too_large
GIGYF1	7	100679507	100694037	-0.710463272	PASS
GIGYF2	2	232697299	232860575	0.011001208	PASS
GIMAP1	7	150716557	150724284	-0.712149877	PASS
GIMAP1-C	7	150716668	150743646	-0.712149877	PASS
GIMAP2	7	150685697	150693641	-0.712149877	PASS
GIMAP4	7	150567277	150573955	-0.712149877	PASS
GIMAP5	7	150722253	150750033	-0.712149877	PASS
GIMAP6	7	150625375	150632648	-0.712149877	PASS
GIMAP7	7	150514830	150521073	-0.712149877	PASS
GIMAP8	7	150450630	150479392	-0.712149877	PASS
GIMD1	4	106357485	106368825	-0.677982248	PASS
GIN1	5	103086000	103120151	-0.393084436	PASS
GINM1	6	149566294	149591748	0.033894706	PASS
GINS1	20	25407727	25452628	-0.172056771	suppress_segment_too_large
GINS2	16	85676198	85690073	-0.423061015	PASS
GINS3	16	58295080	58406144	-0.423061015	PASS
GINS4	8	41529206	41545046	0.182873287	suppress_segment_too_large
GIP	17	48958554	48968596	0.051798665	PASS
GIPC1	19	14477760	14496149	-0.069222905	PASS
GIPC2	1	77979542	78138449	0.052232535	PASS
GIPC3	19	3585553	3593541	-0.071973357	PASS
GIPR	19	45668244	45683724	0.002743503	PASS
GIT1	17	29573469	29594054	0.041294512	PASS
GIT2	12	109929792	109996389	0.028722739	PASS
GJA1	6	121435577	121449727	-0.355603029	PASS
GJA10	6	89894469	89921760	-0.355603029	PASS
GJA3	13	20138255	20161049	-0.398748891	PASS
GJA4	1	34792998	34795747	0.048749694	PASS
GJA5	1	147756199	147773362	0.079255572	PASS
GJA8	1	147907956	147909257	0.079255572	PASS
GJA9	1	38874451	38881587	0.048749694	PASS
GJA9-MYC	1	38864501	38881617	0.048749694	PASS
GJB1	23	71215194	71225516	0.158844052	PASS
GJB2	13	20187463	20193010	-0.398748891	PASS
GJB3	1	34781189	34786369	0.048749694	PASS
GJB4	1	34759741	34763724	0.048749694	PASS
GJB5	1	34755047	34758512	0.048749694	PASS
GJB6	13	20221962	20232395	-0.398748891	PASS
GJB7	6	87282978	87329278	-0.355603029	PASS
GJC1	17	44798448	44830816	0.051798665	PASS
GJC2	1	228149852	228159826	-0.204996646	suppress_segment_too_large
GJC3	7	99923269	99929620	-0.710463272	PASS
GJD2	15	34751032	34754965	-0.423772929	PASS
GJD3	17	40362931	40363815	0.041294512	PASS
GJD4	10	35605410	35608935	0.075711544	PASS
GJE1	6	142133090	142135151	0.033894706	PASS
GK	23	30653359	30731456	0.158844052	PASS
GK2	4	79406352	79408293	-0.677982248	PASS
GK3P	4	165277812	165279679	0.142431244	suppress_segment_too_large
GK5	3	142157527	142225607	-0.889410434	PASS
GKAP1	9	83739421	83829516	0.073960965	PASS

GKN1	2	68974573	68980974	-0.46122572	PASS
GKN2	2	68945232	68952970	-0.46122572	PASS
GLA	23	101397803	101408012	0.158844052	PASS
GLB1	3	32996608	33097230	0.06149513	PASS
GLB1L	2	219236606	219245478	0.011001208	PASS
GLB1L2	11	134331874	134378341	0.105032849	PASS
GLB1L3	11	134274245	134319564	0.105032849	PASS
GLCCI1	7	7968794	8094272	-0.72421718	PASS
GLCE	15	69160584	69272217	-0.759380635	PASS
GLDC	9	6532464	6645783	0.073960965	PASS
GLDN	15	51341629	51408013	-0.423772929	PASS
GLE1	9	128504700	128542288	0.073960965	PASS
GLG1	16	74447427	74607144	-0.423061015	PASS
GLI1	12	57460135	57472262	-0.743220499	PASS
GLI2	2	120735623	120992653	-0.359440172	PASS
GLI3	7	41960950	42237870	-0.72421718	PASS
GLI4	8	143267433	143276931	0.699132336	PASS
GLIPR1	12	75480680	75503853	0.271127429	suppress_segment_too_large
GLIPR1L1	12	75334639	75370560	0.271127429	suppress_segment_too_large
GLIPR1L2	12	75391070	75432688	0.271127429	suppress_segment_too_large
GLIPR2	9	36136536	36163913	0.073960965	PASS
GLIS1	1	53506237	53738106	-0.736943052	PASS
GLIS2	16	4314761	4339597	0.053595371	PASS
GLIS3	9	3824127	4348392	0.073960965	PASS
GLMN	1	92246402	92298987	0.079255572	PASS
GLMP	1	156290089	156295689	0.088103245	PASS
GLO1	6	38675925	38703141	0.028532667	PASS
GLOD4	17	757097	783390	0.06854245	PASS
GLOD5	23	48761750	48773648	0.158844052	PASS
GLP1R	6	39048798	39087743	0.028532667	PASS
GLP2R	17	9822206	9892102	0.06854245	PASS
GLRA1	5	151822513	151924842	-0.393084436	PASS
GLRA2	23	14529298	14731812	0.158844052	PASS
GLRA3	4	174636914	174829314	0.142431244	suppress_segment_too_large
GLRA4	23	103707224	103728655	0.158844052	PASS
GLRB	4	157076057	157172090	0.142431244	suppress_segment_too_large
GLRX	5	95751319	95823005	-0.393084436	PASS
GLRX2	1	193090866	193106114	0.088103245	PASS
GLRX3	10	130136399	130184521	0.073090211	PASS
GLRX5	14	95533503	95544724	-0.155273506	suppress_segment_too_large
GLS	2	190880827	190965552	0.011001208	PASS
GLS2	12	56470944	56488414	-0.743220499	PASS
GLT1D1	12	128853427	128984968	0.028722739	PASS
GLT6D1	9	135623656	135639540	0.073960965	PASS
GLT8D1	3	52694488	52706032	-0.727808231	PASS
GLT8D2	12	103988984	104064183	0.028722739	PASS
GLTP	12	109850943	109880488	0.028722739	PASS
GLTPD2	17	4788959	4790390	0.06854245	PASS
GLUD1	10	87050486	87094866	-0.461254852	PASS
GLUD2	23	121047588	121050080	0.158844052	PASS
GLUL	1	182381704	182392206	0.088103245	PASS
GLYAT	11	58640426	58731974	0.27006553	suppress_segment_too_large
GLYATL1	11	58905398	59043527	0.27006553	suppress_segment_too_large
GLYATL1	11	59086307	59094786	0.27006553	suppress_segment_too_large

GLYATL2	11	58834065	58904215	0.27006553	suppress_segment_too_large
GLYATL3	6	49499958	49527047	0.239805577	suppress_segment_too_large
GLYCTK	3	52287089	52293476	-0.727808231	PASS
GLYR1	16	4803203	4847342	0.053595371	PASS
GM2A	5	151212150	151270440	-0.393084436	PASS
GMCL1	2	69829642	69881396	-0.46122572	PASS
GMCL2	5	178184503	178187432	0.165341871	suppress_segment_too_large
GMDS	6	1623806	2245692	0.069043418	PASS
GMEB1	1	28668732	28719353	0.048749694	PASS
GMEB2	20	63587602	63627041	-0.172056771	suppress_segment_too_large
GMFB	14	54474484	54489196	0.053252507	PASS
GMFG	19	39328353	39342372	0.048917043	PASS
GMIP	19	19629476	19643667	-0.069222905	PASS
GML	8	142834247	142916506	0.699132336	PASS
GMNC	3	190852877	190892429	0.02267528	PASS
GMNN	6	24774931	24786099	0.069043418	PASS
GMPPA	2	219498867	219506989	0.011001208	PASS
GMPPB	3	49716844	49723951	-0.727808231	PASS
GMPR	6	16238580	16295549	0.069043418	PASS
GMPR2	14	24232422	24239242	0.053252507	PASS
GMPS	3	155870536	155944026	0.02267528	PASS
GNA11	19	3094410	3124004	-0.071973357	PASS
GNA12	7	2728112	2844324	-0.72421718	PASS
GNA13	17	65010715	65056839	0.051798665	PASS
GNA14	9	77423079	77648307	0.073960965	PASS
GNA15	19	3136193	3163769	-0.071973357	PASS
GNAI1	7	79768028	80226181	-0.701511252	PASS
GNAI2	3	50226292	50259355	-0.727808231	PASS
GNAI3	1	109548611	109618321	0.079255572	PASS
GNAL	18	11688956	11885685	0.044197172	PASS
GNAO1	16	56191347	56357457	-0.423061015	PASS
GNAQ	9	77716087	78031458	0.073960965	PASS
GNAS	20	58839718	58911192	-0.172056771	suppress_segment_too_large
GNAT1	3	50191612	50196516	-0.727808231	PASS
GNAT2	1	109603267	109619929	0.079255572	PASS
GNAT3	7	80458671	80512020	-0.701511252	PASS
GNAZ	22	23070361	23125037	-0.740245994	PASS
GNB1	1	1785285	1891117	-0.358281697	PASS
GNB1L	22	19783224	19854939	-0.740245994	PASS
GNB2	7	100673531	100679174	-0.710463272	PASS
GNB3	12	6839954	6847393	-0.015029783	PASS
GNB4	3	179396089	179451590	0.02267528	PASS
GNB5	15	52115105	52191369	-0.423772929	PASS
GNE	9	36214441	36277056	0.073960965	PASS
GNG10	9	111661335	111670246	0.073960965	PASS
GNG11	7	93921699	93928610	-0.710463272	PASS
GNG12	1	67701466	67833467	0.052232535	PASS
GNG13	16	798041	800733	0.053595371	PASS
GNG14	19	12687998	12688422	-0.069222905	PASS
GNG2	14	51826195	51979342	0.053252507	PASS
GNG3	11	62707658	62709201	0.064535884	PASS
GNG4	1	235547687	235650754	-0.204996646	suppress_segment_too_large
GNG5	1	84498325	84506565	0.587598296	PASS
GNG7	19	2511219	2702709	-0.071973357	PASS

GNG8	19	46634076	46634685	0.002743503	PASS
GNGT1	7	93591573	93911265	-0.710463272	PASS
GNGT2	17	49202791	49210574	0.051798665	PASS
GNL1	6	30541377	30557174	0.069043418	PASS
GNL2	1	37566816	37595935	0.048749694	PASS
GNL3	3	52681156	52694492	-0.727808231	PASS
GNL3L	23	54530211	54561071	0.158844052	PASS
GNLY	2	85685175	85698854	0.064122364	PASS
GNMT	6	42960758	42963880	0.028532667	PASS
GNPAT	1	231241207	231277973	-0.204996646	suppress_segment_too_large
GNPDA1	5	141991749	142013041	-0.393084436	PASS
GNPDA2	4	44682200	44726595	-0.317525751	PASS
GNPNAT1	14	52775194	52791668	0.053252507	PASS
GNPTAB	12	101745497	101830938	0.028722739	PASS
GNPTG	16	1351923	1364113	0.053595371	PASS
GNRH1	8	25419260	25424654	-0.311940419	PASS
GNRH2	20	3043622	3045747	-0.172056771	suppress_segment_too_large
GNRHR	4	67739328	67754360	0.115781418	suppress_segment_too_large
GNS	12	64713445	64759447	-0.743220499	PASS
GOLGA1	9	124878357	124948492	0.073960965	PASS
GOLGA2	9	128255829	128275995	0.073960965	PASS
GOLGA3	12	132768909	132828858	0.232349073	PASS
GOLGA4	3	37243177	37366751	-0.727808231	PASS
GOLGA5	14	92794231	92839963	-0.155273506	suppress_segment_too_large
GOLGA6A	15	74069857	74082550	-0.759380635	PASS
GOLGA6B	15	72654738	72666394	-0.759380635	PASS
GOLGA6C	15	75258599	75270199	-0.759380635	PASS
GOLGA6D	15	75282835	75295807	-0.759380635	PASS
GOLGA6L	15	23128268	23136822	-0.423772929	PASS
GOLGA6L	15	82339998	82349475	-0.759380635	PASS
GOLGA6L	15	23439498	23447234	-0.423772929	PASS
GOLGA6L	15	22458903	22469230	-0.423772929	PASS
GOLGA6L	15	84235773	84245368	-0.759380635	PASS
GOLGA6L	15	28841833	28848675	-0.423772929	PASS
GOLGA6L	15	82430018	82439153	-0.759380635	PASS
GOLGA7	8	41490396	41510980	0.182873287	suppress_segment_too_large
GOLGA7B	10	97850239	97871580	-0.414937136	PASS
GOLGA8A	15	34379068	34437466	-0.423772929	PASS
GOLGA8B	15	34525207	34588503	-0.423772929	PASS
GOLGA8F	15	28378621	28392018	-0.423772929	PASS
GOLGA8H	15	30604126	30614561	-0.423772929	PASS
GOLGA8J	15	30083053	30093499	-0.423772929	PASS
GOLGA8K	15	32392782	32403292	-0.423772929	PASS
GOLGA8M	15	28701954	28738384	-0.423772929	PASS
GOLGA8N	15	32593456	32607310	-0.423772929	PASS
GOLGA8O	15	32445106	32455634	-0.423772929	PASS
GOLGA8Q	15	30552078	30562501	-0.423772929	PASS
GOLGA8R	15	30403740	30414162	-0.423772929	PASS
GOLGA8S	15	23354748	23367231	-0.423772929	PASS
GOLGA8T	15	30135149	30145567	-0.423772929	PASS
GOLGB1	3	121663199	121749767	0.06434429	PASS
GOLIM4	3	168008677	168095975	0.02267528	PASS
GOLM1	9	86026146	86100173	0.073960965	PASS
GOLPH3	5	32124704	32174350	0.073527871	PASS

GOLPH3L	1	150646225	150697144	0.079255572	PASS
GOLT1A	1	204198160	204214092	-0.204996646	suppress_segment_too_large
GOLT1B	12	21501781	21518408	0.49032213	suppress_segment_too_large
GON4L	1	155749662	155859400	0.088103245	PASS
GON7	14	93202894	93207094	-0.155273506	suppress_segment_too_large
GOPC	6	117560269	117602542	-0.355603029	PASS
GORAB	1	170532129	170553446	0.088103245	PASS
GORASP1	3	39096659	39108363	-0.727808231	PASS
GORASP2	2	170928464	170967129	0.033541467	PASS
GOSR1	17	30477362	30527592	0.041294512	PASS
GOSR2	17	46923075	46975524	0.051798665	PASS
GOT1	10	99396870	99431569	-0.414937136	PASS
GOT1L1	8	37934281	37940129	0.182873287	suppress_segment_too_large
GOT2	16	58707131	58734357	-0.423061015	PASS
GP1BA	17	4932297	4935030	0.06854245	PASS
GP1BB	22	19722945	19724771	-0.740245994	PASS
GP2	16	20309572	20327808	0.053595371	PASS
GP5	3	194394821	194398354	0.02267528	PASS
GP6	19	55013705	55038264	0.142581352	PASS
GP9	3	129060767	129062406	0.06434429	PASS
GPA33	1	167052836	167166479	0.088103245	PASS
GPAA1	8	144082590	144086216	0.699132336	PASS
GPALPP1	13	44989529	45037669	-0.398748891	PASS
GPAM	10	112149864	112215377	0.073090211	PASS
GPANK1	6	31661229	31666283	0.028532667	PASS
GPAT2	2	96021946	96039451	0.064122364	PASS
GPAT3	4	83535914	83605875	-0.677982248	PASS
GPAT4	8	41577187	41625001	0.182873287	suppress_segment_too_large
GPATCH1	19	33080880	33130542	0.044838622	PASS
GPATCH1	2	37084451	37099244	0.034263343	PASS
GPATCH2	1	217426992	217631082	-0.204996646	suppress_segment_too_large
GPATCH2	14	76151916	76254342	-0.155273506	suppress_segment_too_large
GPATCH3	1	26890488	26900466	0.048749694	PASS
GPATCH4	1	156594487	156601496	0.088103245	PASS
GPATCH8	17	44395284	44503430	0.051798665	PASS
GPBAR1	2	218259496	218263859	0.011001208	PASS
GPBP1	5	57173948	57264679	-0.284712224	PASS
GPBP1L1	1	45627304	45688113	-0.736943052	PASS
GPC1	2	240435671	240468078	0.011001208	PASS
GPC2	7	100169606	100177372	-0.710463272	PASS
GPC3	23	133535745	133985895	0.158844052	PASS
GPC4	23	133300103	133415490	0.158844052	PASS
GPC5	13	91398607	92873682	-0.384313056	PASS
GPC6	13	93226842	94407401	-0.384313056	PASS
GPCPD1	20	5544404	5611026	-0.172056771	suppress_segment_too_large
GPD1	12	50103819	50111319	-0.743220499	PASS
GPD1L	3	32105689	32168713	0.06149513	PASS
GPD2	2	156435290	156613735	-0.30549516	PASS
GPER1	7	1082208	1093815	-0.72421718	PASS
GPHA2	11	64934471	64935888	0.064535884	PASS
GPHB5	14	63312835	63318879	0.053252507	PASS
GPHN	14	66507407	67181803	0.053252507	PASS
GPI	19	34359480	34402413	0.044838622	PASS
GPIHBP1	8	143213193	143217170	0.699132336	PASS

GPKOW	23	49113389	49123801	0.158844052	PASS
GPLD1	6	24424565	24495205	0.069043418	PASS
GPM6A	4	175632934	176002664	0.142431244	suppress_segment_too_large
GPM6B	23	13771031	13938638	0.158844052	PASS
GPN1	2	27628247	27651508	0.034263343	PASS
GPN2	1	26876133	26890297	0.048749694	PASS
GPN3	12	110452484	110469268	0.028722739	PASS
GPNMB	7	23235967	23275108	-0.72421718	PASS
GPR1	2	206175316	206218047	0.011001208	PASS
GPR101	23	137030148	137031674	0.158844052	PASS
GPR107	9	130053426	130140169	0.073960965	PASS
GPR108	19	6729914	6737603	-0.071973357	PASS
GPR119	23	130384440	130385447	0.158844052	PASS
GPR12	13	26755200	26760785	-0.398748891	PASS
GPR132	14	105049389	105065445	-0.155273506	suppress_segment_too_large
GPR135	14	59429022	59465342	0.053252507	PASS
GPR137	11	64270062	64289500	0.064535884	PASS
GPR137B	1	236142505	236221865	-0.204996646	suppress_segment_too_large
GPR137C	14	52553148	52637713	0.053252507	PASS
GPR139	16	20031485	20073917	0.053595371	PASS
GPR141	7	37683796	37833788	-0.72421718	PASS
GPR142	17	74367407	74372622	0.051798665	PASS
GPR143	23	9725346	9786297	0.158844052	PASS
GPR146	7	1044576	1059261	-0.72421718	PASS
GPR148	2	130729070	130730336	-0.359440172	PASS
GPR149	3	154337672	154429715	0.02267528	PASS
GPR15	3	98531899	98533150	0.22470242	PASS
GPR150	5	95620078	95622142	-0.393084436	PASS
GPR151	5	146513103	146516190	-0.393084436	PASS
GPR152	11	67451301	67452729	0.064535884	PASS
GPR153	1	6247346	6260975	0.364796772	PASS
GPR155	2	174431571	174487094	0.033541467	PASS
GPR156	3	120164645	120285094	0.06434429	PASS
GPR157	1	9100305	9129170	0.364796772	PASS
GPR158	10	25174802	25602226	0.075711544	PASS
GPR160	3	170037929	170085403	0.02267528	PASS
GPR161	1	168079543	168137667	0.088103245	PASS
GPR162	12	6821545	6829972	-0.015029783	PASS
GPR17	2	127645864	127652639	-0.359440172	PASS
GPR171	3	151197832	151203201	0.02267528	PASS
GPR173	23	53049091	53080615	0.158844052	PASS
GPR174	23	79144663	79175315	0.158844052	PASS
GPR176	15	39799032	39920892	-0.423772929	PASS
GPR179	17	38325530	38343847	0.041294512	PASS
GPR18	13	99254714	99261744	-0.384313056	PASS
GPR180	13	94601903	94634645	-0.384313056	PASS
GPR182	12	56994446	56998441	-0.743220499	PASS
GPR183	13	99294530	99307405	-0.384313056	PASS
GPR19	12	12660891	12696207	0.49032213	suppress_segment_too_large
GPR20	8	141356500	141367267	0.699132336	PASS
GPR21	9	123034527	123035696	0.073960965	PASS
GPR22	7	107470018	107475659	-0.712149877	PASS
GPR25	1	200872955	200874178	-0.204996646	suppress_segment_too_large
GPR26	10	123666355	123694607	0.073090211	PASS

GPR27	3	71754050	71756496	-0.727808231	PASS
GPR3	1	27392644	27395814	0.048749694	PASS
GPR31	6	167156271	167158329	0.033894706	PASS
GPR32	19	50770464	50771732	0.002743503	PASS
GPR33	14	31482875	31488142	0.053252507	PASS
GPR34	23	41688973	41697277	0.158844052	PASS
GPR35	2	240605431	240631259	0.011001208	PASS
GPR37	7	124745997	124765627	-0.712149877	PASS
GPR37L1	1	202122858	202133592	-0.204996646	suppress_segment_too_large
GPR39	2	132416574	132646559	-0.359440172	PASS
GPR4	19	45589764	45602208	0.002743503	PASS
GPR42	19	35370929	35372962	0.044838622	PASS
GPR45	2	105241743	105243049	-0.439572519	PASS
GPR50	23	151176653	151181465	0.158844052	PASS
GPR52	1	174448111	174449198	0.088103245	PASS
GPR55	2	230907318	230961066	0.011001208	PASS
GPR6	6	109978256	109980718	-0.355603029	PASS
GPR61	1	109539872	109548406	0.079255572	PASS
GPR62	3	51955314	51957504	-0.727808231	PASS
GPR63	6	96794126	96837463	-0.355603029	PASS
GPR65	14	88005124	88014811	-0.155273506	suppress_segment_too_large
GPR68	14	91232532	91253925	-0.155273506	suppress_segment_too_large
GPR75	2	53852913	53859989	0.034263343	PASS
GPR75-AS	2	53670293	53860160	0.034263343	PASS
GPR78	4	8558725	8619761	-0.358623662	PASS
GPR82	23	41724155	41730135	0.158844052	PASS
GPR83	11	94377311	94401419	0.064535884	PASS
GPR84	12	54362445	54364487	-0.743220499	PASS
GPR85	7	113078331	113087778	-0.712149877	PASS
GPR87	3	151294086	151316952	0.02267528	PASS
GPR88	1	100538137	100542018	0.079255572	PASS
GPR89A	1	145607990	145670648	0.079255572	PASS
GPR89B	1	147928393	147993521	0.079255572	PASS
GPRASP1	23	102651366	102659083	0.158844052	PASS
GPRASP2	23	102712176	102717733	0.158844052	PASS
GPRC5A	12	12890782	12917937	0.49032213	suppress_segment_too_large
GPRC5B	16	19856691	19886167	0.053595371	PASS
GPRC5C	17	74424851	74451653	0.051798665	PASS
GPRC5D	12	12940775	12952147	0.49032213	suppress_segment_too_large
GPRC6A	6	116792085	116829037	-0.355603029	PASS
GPRIN1	5	176595802	176610133	0.165341871	suppress_segment_too_large
GPRIN2	10	46549044	46555530	-0.389033546	PASS
GPRIN3	4	89236386	89308010	-0.677982248	PASS
GPS1	17	82050691	82057470	0.051798665	PASS
GPS2	17	7311324	7315564	0.06854245	PASS
GPSM1	9	136327476	136359605	0.073960965	PASS
GPSM2	1	108875350	108934545	0.079255572	PASS
GPSM3	6	32190766	32195523	0.028532667	PASS
GPT	8	144502973	144507174	0.699132336	PASS
GPT2	16	46884378	46931297	0.053595371	PASS
GPX2	14	64939152	64942905	0.053252507	PASS
GPX3	5	151020438	151028993	-0.393084436	PASS
GPX4	19	1103926	1106791	-0.071973357	PASS
GPX5	6	28525925	28534952	0.069043418	PASS

GPX6	6	28503296	28528215	0.069043418	PASS
GPX7	1	52602372	52609051	-0.736943052	PASS
GPX8	5	55160118	55167071	-0.284712224	PASS
GRAMD1A	19	34994784	35026471	0.044838622	PASS
GRAMD1B	11	123358428	123627774	-0.431650509	PASS
GRAMD1C	3	113828182	113947174	0.06434429	PASS
GRAMD2A	15	72159807	72197785	-0.759380635	PASS
GRAMD2B	5	126360132	126496494	-0.393084436	PASS
GRAMD4	22	46576012	46679790	-0.953096644	PASS
GRAP	17	19020673	19047637	0.06854245	PASS
GRAP2	22	39901082	39973721	-0.740245994	PASS
GRAPL	17	19127469	19159176	0.06854245	PASS
GRASP	12	52006940	52015889	-0.743220499	PASS
GRB10	7	50590063	50793462	-0.701511252	PASS
GRB14	2	164492812	164621848	0.319987345	PASS
GRB2	17	75318076	75405709	0.051798665	PASS
GRB7	17	39737927	39747291	0.041294512	PASS
GREB1	2	11482341	11642788	0.034263343	PASS
GREB1L	18	21242242	21525417	-0.330515409	PASS
GREM1	15	32717974	32745107	-0.423772929	PASS
GREM2	1	240489573	240612149	-0.287484925	PASS
GRHL1	2	9951693	10002277	0.034263343	PASS
GRHL2	8	101492432	101669726	0.355469066	suppress_segment_too_large
GRHL3	1	24319322	24364482	0.048749694	PASS
GRHPR	9	37422666	37436990	0.073960965	PASS
GRIA1	5	153489615	153813869	-0.393084436	PASS
GRIA2	4	157204182	157366075	0.142431244	suppress_segment_too_large
GRIA3	23	123184153	123490915	0.158844052	PASS
GRIA4	11	105609994	105982092	0.32805343	suppress_segment_too_large
GRID1	10	85599555	86366493	0.032351597	PASS
GRID2	4	92303622	93810157	-0.677982248	PASS
GRID2IP	7	6497462	6551436	-0.72421718	PASS
GRIFIN	7	2474844	2476894	-0.72421718	PASS
GRIK1	21	29536933	29940033	0.209983559	PASS
GRIK2	6	101181257	102070083	-0.355603029	PASS
GRIK3	1	36795527	37034129	0.048749694	PASS
GRIK4	11	120511700	120988904	-0.431650509	PASS
GRIK5	19	41998321	42069498	0.048917043	PASS
GRIN1	9	137138390	137168762	0.073960965	PASS
GRIN2A	16	9753404	10182754	0.053595371	PASS
GRIN2B	12	13437942	13981957	0.49032213	suppress_segment_too_large
GRIN2C	17	74842023	74861504	0.051798665	PASS
GRIN2D	19	48394875	48444931	0.002743503	PASS
GRIN3A	9	101569353	101738580	0.073960965	PASS
GRIN3B	19	1000419	1009732	-0.071973357	PASS
GRINA	8	143990058	143993415	0.699132336	PASS
GRIP1	12	66347431	67069162	-0.743220499	PASS
GRIP2	3	14489111	14556075	0.06149513	PASS
GRIPAP1	23	48973720	49002264	0.158844052	PASS
GRK1	13	113667155	113737735	-0.426822582	PASS
GRK2	11	67266410	67286556	0.064535884	PASS
GRK3	22	25564849	25729294	-0.740245994	PASS
GRK4	4	2963608	3040747	-0.358623662	PASS
GRK5	10	119207589	119459742	0.073090211	PASS

GRK6	5	177403204	177442901	0.165341871	suppress_segment_too_large
GRK7	3	141778148	141818490	-0.889410434	PASS
GRM1	6	146027646	146437598	0.033894706	PASS
GRM2	3	51707070	51718613	-0.727808231	PASS
GRM3	7	86643914	86864884	-0.221864321	PASS
GRM4	6	34018645	34155622	0.028532667	PASS
GRM5	11	88504576	89065945	0.064535884	PASS
GRM6	5	178977587	178996206	0.165341871	suppress_segment_too_large
GRM7	3	6770001	7741533	0.06149513	PASS
GRM8	7	126438598	127253294	-0.712149877	PASS
GRN	17	44345086	44353102	0.051798665	PASS
GRP	18	59220168	59230774	-0.330515409	PASS
GRPEL1	4	7058906	7068197	-0.358623662	PASS
GRPEL2	5	149345430	149354583	-0.393084436	PASS
GRPR	23	16123556	16153021	0.158844052	PASS
GRSF1	4	70815782	70839945	0.115781418	suppress_segment_too_large
GRTP1	13	113324164	113364148	-0.426822582	PASS
GRWD1	19	48445773	48457022	0.002743503	PASS
GRXCR1	4	42893267	43030658	-0.317525751	PASS
GRXCR2	5	145858521	145937126	-0.393084436	PASS
GSAP	7	77310751	77416400	-0.701511252	PASS
GSC	14	94768216	94770230	-0.155273506	suppress_segment_too_large
GSC2	22	19148576	19150283	-0.740245994	PASS
GSDMA	17	39953263	39977766	0.041294512	PASS
GSDMB	17	39904595	39919854	0.041294512	PASS
GSDMC	8	129748196	129786888	0.493344802	suppress_segment_too_large
GSDMD	8	143553207	143563062	0.699132336	PASS
GSDME	7	24698351	24758113	-0.72421718	PASS
GSE1	16	85169525	85676204	-0.423061015	PASS
GSG1	12	13083560	13103683	0.49032213	suppress_segment_too_large
GSG1L	16	27787535	28063509	0.053595371	PASS
GSG1L2	17	9802386	9822071	0.06854245	PASS
GSK3A	19	42230186	42242625	0.048917043	PASS
GSK3B	3	119821323	120094417	0.06434429	PASS
GSKIP	14	96363452	96387288	-0.155273506	suppress_segment_too_large
GSN	9	121207794	121332843	0.073960965	PASS
GSPT1	16	11868128	11916082	0.053595371	PASS
GSPT2	23	51743431	51746232	0.158844052	PASS
GSR	8	30678061	30727999	-0.311940419	PASS
GSS	20	34928433	34956027	-0.172056771	suppress_segment_too_large
GSTA1	6	52791664	52803910	0.239805577	suppress_segment_too_large
GSTA2	6	52750089	52763569	0.239805577	suppress_segment_too_large
GSTA3	6	52896639	52909685	0.239805577	suppress_segment_too_large
GSTA4	6	52977948	52995378	0.239805577	suppress_segment_too_large
GSTA5	6	52831655	52846095	0.239805577	suppress_segment_too_large
GSTCD	4	105708778	105847728	-0.677982248	PASS
GSTK1	7	143244093	143270854	-0.712149877	PASS
GSTM1	1	109687814	109709039	0.079255572	PASS
GSTM2	1	109668022	109709551	0.079255572	PASS
GSTM3	1	109733932	109741038	0.079255572	PASS
GSTM4	1	109656081	109674836	0.079255572	PASS
GSTM5	1	109711780	109775428	0.079255572	PASS
GSTO1	10	104235356	104267459	-0.414937136	PASS
GSTO2	10	104268873	104304945	-0.414937136	PASS

GSTP1	11	67583595	67586656	0.064535884	PASS
GSTT2B	22	23957414	23961186	-0.740245994	PASS
GSTZ1	14	77320884	77331597	-0.155273506	suppress_segment_too_large
GSX1	13	27792643	27794768	-0.398748891	PASS
GSX2	4	54099523	54102505	0.115781418	suppress_segment_too_large
GTDC1	2	143938068	144332568	-0.30549516	PASS
GTF2A1	14	81175452	81221377	-0.155273506	suppress_segment_too_large
GTF2A1L	2	48617798	48733148	0.034263343	PASS
GTF2A2	15	59638062	59657541	-0.759380635	PASS
GTF2B	1	88852932	88891944	0.079255572	PASS
GTF2E1	3	120742637	120783069	0.06434429	PASS
GTF2E2	8	30578318	30658251	-0.311940419	PASS
GTF2F1	19	6379569	6393981	-0.071973357	PASS
GTF2F2	13	45120515	45284909	-0.398748891	PASS
GTF2H1	11	18322295	18367044	-0.39835217	PASS
GTF2H2	5	71032670	71067689	-0.393084436	PASS
GTF2H2C	5	69560208	69594723	-0.393084436	PASS
GTF2H3	12	123633739	123662606	0.028722739	PASS
GTF2H4	6	30908184	30914106	0.069043418	PASS
GTF2H5	6	158168350	158199344	0.033894706	PASS
GTF2I	7	74657667	74760692	-0.701511252	PASS
GTF2IRD1	7	74453790	74602604	-0.701511252	PASS
GTF2IRD2	7	74796144	74851551	-0.701511252	PASS
GTF2IRD2	7	75092573	75149817	-0.701511252	PASS
GTF3A	13	27424544	27435823	-0.398748891	PASS
GTF3C1	16	27459555	27549913	0.053595371	PASS
GTF3C2	2	27325849	27357034	0.034263343	PASS
GTF3C3	2	196763032	196799725	0.011001208	PASS
GTF3C4	9	132670035	132694955	0.073960965	PASS
GTF3C5	9	133030675	133058503	0.073960965	PASS
GTF3C6	6	110958560	110967890	-0.355603029	PASS
GTPBP1	22	38705723	38738299	-0.740245994	PASS
GTPBP10	7	90335223	90391455	-0.710463272	PASS
GTPBP2	6	43605316	43629162	0.028532667	PASS
GTPBP3	19	17334920	17342735	-0.069222905	PASS
GTPBP4	10	988019	1019936	0.075711544	PASS
GTPBP6	23	304529	318819	-0.350651546	PASS
GTPBP8	3	112990918	113015060	0.06434429	PASS
GTSE1	22	46296741	46330810	-0.953096644	PASS
GTSF1	12	54455950	54473602	-0.743220499	PASS
GTSF1L	20	43726164	43726998	-0.172056771	suppress_segment_too_large
GUCA1A	6	42155406	42180056	0.028532667	PASS
GUCA1B	6	42184401	42194916	0.028532667	PASS
GUCA1C	3	108907792	108953895	0.22470242	PASS
GUCA2A	1	42162691	42164718	-0.736943052	PASS
GUCA2B	1	42153421	42155824	-0.736943052	PASS
GUCD1	22	24540423	24555935	-0.740245994	PASS
GUCY1A1	4	155666711	155732349	0.142431244	suppress_segment_too_large
GUCY1A2	11	106674012	107018524	0.029107301	PASS
GUCY1B1	4	155758992	155807591	0.142431244	suppress_segment_too_large
GUCY2C	12	14612632	14696585	0.49032213	suppress_segment_too_large
GUCY2D	17	8002594	8020339	0.06854245	PASS
GUCY2F	23	109372906	109482072	0.158844052	PASS
GUF1	4	44678427	44700926	-0.317525751	PASS

GUK1	1	228139962	228148984	-0.204996646	suppress_segment_too_large
GULP1	2	188291669	188595931	-0.030005025	PASS
GUSB	7	65960684	65982314	-0.701511252	PASS
GVQW2	6	138725211	138773652	0.033894706	PASS
GVQW3	11	76381313	76414619	0.064535884	PASS
GXYLT1	12	42081845	42144879	-0.46813528	PASS
GXYLT2	3	72888073	72998138	-0.727808231	PASS
GYG1	3	148991341	149027668	0.02267528	PASS
GYG2	23	2828788	2882820	0.158844052	PASS
GYPA	4	144109303	144140786	0.142431244	suppress_segment_too_large
GYPB	4	143996104	144019345	0.142431244	suppress_segment_too_large
GYPC	2	126655933	126696670	-0.359440172	PASS
GYPE	4	143870867	143905563	0.142431244	suppress_segment_too_large
GYS1	19	48968125	48993310	0.002743503	PASS
GYS2	12	21536189	21604847	0.49032213	suppress_segment_too_large
GZF1	20	23362182	23373063	-0.172056771	suppress_segment_too_large
GZMA	5	55102648	55110252	-0.284712224	PASS
GZMB	14	24630954	24634267	0.053252507	PASS
GZMH	14	24606480	24609699	0.053252507	PASS
GZMK	5	55024253	55034570	-0.284712224	PASS
GZMM	19	544034	549924	-0.071973357	PASS
H1F0	22	37805093	37807436	-0.740245994	PASS
H1FNT	12	48328980	48330279	-0.743220499	PASS
H1FOO	3	129543214	129551467	0.06434429	PASS
H1FX	3	129314771	129316277	0.06434429	PASS
H2AFB1	23	154884972	154885558	0.158844052	PASS
H2AFJ	12	14774383	14778002	0.49032213	suppress_segment_too_large
H2AFV	7	44826791	44848083	-0.72421718	PASS
H2AFX	11	119093854	119095467	-0.431650509	PASS
H2AFY	5	135333900	135399914	-0.393084436	PASS
H2AFY2	10	70052796	70112280	0.032351597	PASS
H2AFZ	4	99948086	99950388	-0.677982248	PASS
H2BFM	23	104039949	104042454	0.158844052	PASS
H2BFS	21	5972924	43565648	0.220071762	PASS
H2BFWT	23	104011147	104013687	0.158844052	PASS
H3F3A	1	226061851	226072001	-0.204996646	suppress_segment_too_large
H3F3B	17	75776434	75785893	0.051798665	PASS
H3F3C	12	31791185	31792241	0.49032213	suppress_segment_too_large
H6PD	1	9234775	9271337	0.364796772	PASS
HAAO	2	42767089	42792593	0.034263343	PASS
HABP2	10	113550837	113589602	0.073090211	PASS
HABP4	9	96450201	96491336	0.073960965	PASS
HACD1	10	17589032	17617377	0.075711544	PASS
HACD2	3	123490820	123585185	0.06434429	PASS
HACD3	15	65530418	65578352	-0.759380635	PASS
HACD4	9	20999515	21031636	0.073960965	PASS
HACE1	6	104728093	104859919	-0.355603029	PASS
HACL1	3	15560704	15601852	0.06149513	PASS
HADH	4	107989714	108035175	-0.677982248	PASS
HADHA	2	26190635	26244726	0.034263343	PASS
HADHB	2	26243170	26290468	0.034263343	PASS
HAGH	16	1795620	1827194	0.053595371	PASS
HAGHL	16	726936	735525	0.053595371	PASS
HAL	12	95972662	95996365	0.028722739	PASS

HAMP	19	35280716	35285143	0.044838622	PASS
HAND1	5	154474972	154478264	-0.393084436	PASS
HAND2	4	173524969	173530229	0.142431244	suppress_segment_too_large
HAO1	20	7882981	7940474	-0.172056771	suppress_segment_too_large
HAO2	1	119368779	119394130	0.079255572	PASS
HAP1	17	41717742	41734644	0.041294512	PASS
HAPLN1	5	83637805	83721613	-0.393084436	PASS
HAPLN2	1	156619294	156625725	0.088103245	PASS
HAPLN3	15	88877288	88895626	-0.759380635	PASS
HAPLN4	19	19255641	19262796	-0.069222905	PASS
HARBI1	11	46602861	46617909	0.059795455	PASS
HARS	5	140673904	140691862	-0.393084436	PASS
HARS2	5	140691426	140699318	-0.393084436	PASS
HAS1	19	51713112	51723994	0.002743503	PASS
HAS2	8	121612116	121641390	0.493344802	suppress_segment_too_large
HAS3	16	69105564	69118719	-0.423061015	PASS
HASPIN	17	3723903	3726699	0.06854245	PASS
HAT1	2	171922448	171983682	0.033541467	PASS
HAUS1	18	46104332	46128333	-0.330515409	PASS
HAUS2	15	42548810	42569994	-0.423772929	PASS
HAUS3	4	2227464	2242164	-0.358623662	PASS
HAUS4	14	22946228	22957161	0.053252507	PASS
HAUS5	19	35612744	35625349	0.044838622	PASS
HAUS6	9	19053143	19103119	0.073960965	PASS
HAUS7	23	153447666	153495516	0.158844052	PASS
HAUS8	19	17049729	17075625	-0.069222905	PASS
HAVCR1	5	157029413	157059119	-0.393084436	PASS
HAVCR2	5	157085832	157142869	-0.393084436	PASS
HAX1	1	154272511	154275875	0.088103245	PASS
HBA1	16	176680	177522	0.053595371	PASS
HBA2	16	172876	173710	0.053595371	PASS
HBB	11	5225464	5229395	-0.39835217	PASS
HBD	11	5232678	5243657	-0.39835217	PASS
HBE1	11	5268345	5505652	-0.39835217	PASS
HBEGF	5	140332843	140346631	-0.393084436	PASS
HBG1	11	5248079	5249859	-0.39835217	PASS
HBG2	11	5253190	5505605	-0.39835217	PASS
HBM	16	153892	166768	0.053595371	PASS
HBP1	7	107168961	107202529	-0.712149877	PASS
HBQ1	16	180453	181181	0.053595371	PASS
HBS1L	6	134960378	135103056	0.033894706	PASS
HBZ	16	152687	154503	0.053595371	PASS
HCAR1	12	122726076	122730843	0.028722739	PASS
HCAR2	12	122701293	122703343	0.028722739	PASS
HCAR3	12	122714756	122716892	0.028722739	PASS
HCCS	23	11111301	11123078	0.158844052	PASS
HCFC1	23	153947553	153971807	0.158844052	PASS
HCFC1R1	16	3022620	3024286	0.053595371	PASS
HCFC2	12	104064457	104106524	0.028722739	PASS
HCK	20	32052188	32101856	-0.172056771	suppress_segment_too_large
HCLS1	3	121631399	121660927	0.06434429	PASS
HCN1	5	45254950	45696498	-0.284712224	PASS
HCN2	19	589893	617159	-0.071973357	PASS
HCN3	1	155277583	155289848	0.088103245	PASS

HCN4	15	73319859	73369264	-0.759380635	PASS
HCRT	17	42184060	42185452	0.041294512	PASS
HCRTR1	1	31617686	31632518	0.048749694	PASS
HCRTR2	6	55106460	55282620	0.239805577	suppress_segment_too_large
HCST	19	35902480	35904377	0.044838622	PASS
HDAC1	1	32292086	32333635	0.048749694	PASS
HDAC10	22	50245183	50251405	-0.953096644	PASS
HDAC11	3	13479724	13506424	0.06149513	PASS
HDAC2	6	113933028	114011308	-0.355603029	PASS
HDAC3	5	141620876	141636870	-0.393084436	PASS
HDAC4	2	239048168	239401654	0.011001208	PASS
HDAC5	17	44076746	44123702	0.051798665	PASS
HDAC6	23	48801377	48824982	0.158844052	PASS
HDAC7	12	47782722	47833132	-0.743220499	PASS
HDAC8	23	72329516	72573199	0.158844052	PASS
HDAC9	7	18086949	19002416	-0.72421718	PASS
HDC	15	50241947	50266026	-0.423772929	PASS
HDDC2	6	125219962	125302078	-0.304168115	PASS
HDDC3	15	90929964	90935196	-0.759380635	PASS
HDGF	1	156742107	156766925	0.088103245	PASS
HDGFL1	6	22569493	22571666	0.069043418	PASS
HDGFL2	19	4472287	4502211	-0.071973357	PASS
HDGFL3	15	83112738	83208018	-0.759380635	PASS
HDHD2	18	47107403	47150520	-0.330515409	PASS
HDHD3	9	113373419	113376999	0.073960965	PASS
HDHD5	22	17137511	17165287	-0.740245994	PASS
HDLBP	2	241227264	241317061	0.011001208	PASS
HDX	23	84317874	84502479	0.158844052	PASS
HEATR1	1	236549005	236604504	-0.204996646	suppress_segment_too_large
HEATR3	16	50065941	50106387	0.411512417	PASS
HEATR4	14	73478484	73558947	0.053252507	PASS
HEATR5A	14	31291791	31420582	0.053252507	PASS
HEATR5B	2	36968383	37084342	0.034263343	PASS
HEATR6	17	60043194	60078931	0.051798665	PASS
HEATR9	17	35854946	35868891	0.041294512	PASS
HEBP1	12	12974864	13000273	0.49032213	suppress_segment_too_large
HEBP2	6	138403531	138422197	0.033894706	PASS
HECA	6	139135112	139180802	0.033894706	PASS
HECTD1	14	31100112	31207804	0.053252507	PASS
HECTD2	10	91409280	91514829	-0.414937136	PASS
HECTD3	1	45002540	45011329	-0.736943052	PASS
HECTD4	12	112160188	112382439	0.028722739	PASS
HECW1	7	43112599	43566001	-0.72421718	PASS
HECW2	2	196189099	196593692	0.011001208	PASS
HEG1	3	124965710	125055958	0.06434429	PASS
HELB	12	66302545	66347645	-0.743220499	PASS
HELLS	10	94501434	94613905	-0.414937136	PASS
HELQ	4	83407343	83455856	-0.677982248	PASS
HELT	4	185018841	185020804	0.275137421	PASS
HELZ	17	67070438	67245989	0.051798665	PASS
HELZ2	20	63558086	63574239	-0.172056771	suppress_segment_too_large
HEMGN	9	97926791	97944856	0.073960965	PASS
HEMK1	3	50569152	50596168	-0.727808231	PASS
HENMT1	1	108648290	108661526	0.079255572	PASS

HEPACAM	11	124919193	124936412	-0.431650509	PASS
HEPACAM	7	93188586	93226524	-0.710463272	PASS
HEPH	23	66162549	66268867	0.158844052	PASS
HEPHL1	11	94021361	94113751	0.064535884	PASS
HEPN1	11	124919244	124920677	-0.431650509	PASS
HERC1	15	63608618	63833942	-0.759380635	PASS
HERC2	15	28111040	28322152	-0.423772929	PASS
HERC3	4	88592423	88708542	-0.677982248	PASS
HERC4	10	67921899	68075348	0.032351597	PASS
HERC5	4	88457117	88506163	-0.677982248	PASS
HERC6	4	88378739	88443111	-0.677982248	PASS
HERPUD1	16	56932048	56944863	-0.423061015	PASS
HERPUD2	7	35632659	35695571	-0.72421718	PASS
HES1	3	194136145	194138732	0.02267528	PASS
HES2	1	6412418	6424670	0.364796772	PASS
HES3	1	6244192	6245578	0.364796772	PASS
HES4	1	998962	1000172	-0.358281697	PASS
HES5	1	2528745	2530245	-0.358281697	PASS
HES6	2	238238267	238240662	0.011001208	PASS
HES7	17	8120590	8124092	0.06854245	PASS
HESX1	3	57197838	57227606	-0.727808231	PASS
HEXA	15	72340919	72376476	-0.759380635	PASS
HEXB	5	74640023	74722647	-0.393084436	PASS
HEXDC	17	82418318	82442645	0.051798665	PASS
HEXIM1	17	45148502	45152101	0.051798665	PASS
HEXIM2	17	45160700	45170040	0.051798665	PASS
HEY1	8	79764010	79767863	0.617295349	suppress_segment_too_large
HEY2	6	125747664	125761269	-0.304168115	PASS
HEYL	1	39624153	39639945	0.048749694	PASS
HFE	6	26087281	26098343	0.069043418	PASS
HFM1	1	91260766	91404869	0.079255572	PASS
HGD	3	120628173	120682571	0.06434429	PASS
HGF	7	81699008	81770438	-0.701511252	PASS
HGFAC	4	3441887	3449495	-0.358623662	PASS
HGH1	8	144137769	144140843	0.699132336	PASS
HGS	17	81683326	81703138	0.051798665	PASS
HGSNAT	8	43140455	43202855	0.182873287	suppress_segment_too_large
HHAT	1	210328252	210676296	-0.204996646	suppress_segment_too_large
HHATL	3	42692663	42702827	-0.727808231	PASS
HHEX	10	92689951	92695646	-0.414937136	PASS
HHIP	4	144646021	144745271	0.142431244	suppress_segment_too_large
HHIPL1	14	99645110	99680569	-0.155273506	suppress_segment_too_large
HHIPL2	1	222522258	222548103	-0.204996646	suppress_segment_too_large
HHLA1	8	132061486	132111159	0.493344802	suppress_segment_too_large
HHLA2	3	108296490	108378285	0.22470242	PASS
HHLA3	1	70354805	70385339	0.052232535	PASS
HIBADH	7	27525442	27662995	-0.72421718	PASS
HIBCH	2	190189735	190344193	0.011001208	PASS
HIC1	17	2054154	2063241	0.06854245	PASS
HIC2	22	21417404	21451463	-0.740245994	PASS
HID1	17	74950743	74973166	0.051798665	PASS
HIF1A	14	61695513	61748259	0.053252507	PASS
HIF1AN	10	100529072	100559998	-0.414937136	PASS
HIF3A	19	46297046	46343433	0.002743503	PASS

HIGD1A	3	42784298	42804531	-0.727808231	PASS
HIGD1B	17	44846353	44850480	0.051798665	PASS
HIGD1C	12	50953922	50970506	-0.743220499	PASS
HIGD2A	5	176388747	176389771	0.165341871	suppress_segment_too_large
HIGD2B	15	72675782	72686149	-0.759380635	PASS
HIKESHI	11	86302211	86345931	0.064535884	PASS
HILPDA	7	128455849	128458418	-0.712149877	PASS
HINFP	11	119121587	119136044	-0.431650509	PASS
HINT1	5	131159027	131171735	-0.393084436	PASS
HINT2	9	35812960	35815354	0.073960965	PASS
HINT3	6	125956781	125980244	-0.304168115	PASS
HIP1	7	75533300	75738962	-0.701511252	PASS
HIP1R	12	122834453	122862960	0.028722739	PASS
HIPK1	1	113929192	113977869	0.079255572	PASS
HIPK2	7	139561570	139777778	-0.712149877	PASS
HIPK3	11	33256672	33357023	-0.359426047	PASS
HIPK4	19	40379271	40390187	0.048917043	PASS
HIRA	22	19330698	19447450	-0.740245994	PASS
HIRIP3	16	29992321	29996436	0.053595371	PASS
HIST1H1A	6	26017085	26017732	0.069043418	PASS
HIST1H1B	6	27866849	27867529	0.069043418	PASS
HIST1H1C	6	26055787	26056428	0.069043418	PASS
HIST1H1D	6	26234268	26234933	0.069043418	PASS
HIST1H1E	6	26156354	26157107	0.069043418	PASS
HIST1H1T	6	26107419	26108136	0.069043418	PASS
HIST1H2A	6	26033176	26033568	0.069043418	PASS
HIST1H2A	6	26124145	26139116	0.069043418	PASS
HIST1H2A	6	26198851	26199243	0.069043418	PASS
HIST1H2A	6	26216975	26217483	0.069043418	PASS
HIST1H2A	6	27133042	27135291	0.069043418	PASS
HIST1H2A	6	27147129	27147515	0.069043418	PASS
HIST1H2A	6	27808199	27808701	0.069043418	PASS
HIST1H2A	6	27814354	27814740	0.069043418	PASS
HIST1H2A	6	27837947	27838339	0.069043418	PASS
HIST1H2A	6	27865355	27865747	0.069043418	PASS
HIST1H2A	6	27892757	27893149	0.069043418	PASS
HIST1H2B	6	25726777	25727292	0.069043418	PASS
HIST1H2B	6	26043277	26043657	0.069043418	PASS
HIST1H2B	6	26114873	26123926	0.069043418	PASS
HIST1H2B	6	26158146	26171349	0.069043418	PASS
HIST1H2B	6	26172059	26184655	0.069043418	PASS
HIST1H2B	6	26199520	26200715	0.069043418	PASS
HIST1H2B	6	26215159	26216692	0.069043418	PASS
HIST1H2B	6	26251651	26253710	0.069043418	PASS
HIST1H2B	6	26272976	26273356	0.069043418	PASS
HIST1H2B	6	27125897	27132750	0.069043418	PASS
HIST1H2B	6	27146418	27146798	0.069043418	PASS
HIST1H2B	6	27807444	27807931	0.069043418	PASS
HIST1H2B	6	27815044	27815424	0.069043418	PASS
HIST1H2B	6	27837760	27865798	0.069043418	PASS
HIST1H2B	6	27893463	27893843	0.069043418	PASS
HIST1H3A	6	26020490	26020900	0.069043418	PASS
HIST1H3B	6	26031650	26032060	0.069043418	PASS
HIST1H3C	6	26045411	26045821	0.069043418	PASS

HIST1H3D	6	26196840	26197250	0.069043418	PASS
HIST1H3E	6	26224199	26227473	0.069043418	PASS
HIST1H3F	6	26250195	26250605	0.069043418	PASS
HIST1H3G	6	26269405	26271815	0.069043418	PASS
HIST1H3H	6	27810064	27811300	0.069043418	PASS
HIST1H3I	6	27871905	27872315	0.069043418	PASS
HIST1H3J	6	27890382	27893106	0.069043418	PASS
HIST1H4A	6	26021679	26021990	0.069043418	PASS
HIST1H4B	6	26026815	26027252	0.069043418	PASS
HIST1H4C	6	26103876	26104310	0.069043418	PASS
HIST1H4D	6	26188765	26189076	0.069043418	PASS
HIST1H4E	6	26204552	26206038	0.069043418	PASS
HIST1H4F	6	26240426	26240737	0.069043418	PASS
HIST1H4G	6	26246681	26246977	0.069043418	PASS
HIST1H4H	6	26277609	26285638	0.069043418	PASS
HIST1H4I	6	27138588	27139881	0.069043418	PASS
HIST1H4J	6	27824108	27824480	0.069043418	PASS
HIST1H4K	6	27831216	27831527	0.069043418	PASS
HIST1H4L	6	27873199	27873510	0.069043418	PASS
HIST2H2AA	1	149887524	149887916	0.079255572	PASS
HIST2H2AC	1	149886975	149887364	0.079255572	PASS
HIST2H2BE	1	149884459	149886652	0.079255572	PASS
HIST2H2BF	1	149782689	149812373	0.079255572	PASS
HIST2H3D	1	149813271	149813681	0.079255572	PASS
HIST2H3PS2	1	143905556	143905966	0.079255572	PASS
HIST3H2A	1	228456979	228457873	-0.204996646	suppress_segment_too_large
HIST3H2BB	1	228458107	228460470	-0.204996646	suppress_segment_too_large
HIST3H3	1	228424845	228425325	-0.204996646	suppress_segment_too_large
HIST4H4	12	14767999	14771131	0.49032213	suppress_segment_too_large
HIVEP1	6	12008762	12164999	0.069043418	PASS
HIVEP2	6	142751467	142956698	0.033894706	PASS
HIVEP3	1	41506365	42035925	-0.736943052	PASS
HJURP	2	233833416	233854566	0.011001208	PASS
HJV	1	146017468	146036746	0.079255572	PASS
HK1	10	69269984	69401884	0.032351597	PASS
HK2	2	74833981	74893359	-0.46122572	PASS
HK3	5	176880869	176899332	0.165341871	suppress_segment_too_large
HKDC1	10	69220303	69267559	0.032351597	PASS
HKR1	19	37312837	37369365	0.396324882	PASS
HLA-A	6	29941260	29945884	0.069043418	PASS
HLA-B	6	31269491	31357188	0.069043418	PASS
HLA-C	6	31268749	31272130	0.069043418	PASS
HLA-DMA	6	32948613	32969094	0.028532667	PASS
HLA-DME	6	32934629	32941070	0.028532667	PASS
HLA-DOA	6	33004178	33009612	0.028532667	PASS
HLA-DOB	6	32812763	32820466	0.028532667	PASS
HLA-DPA1	6	33064569	33080775	0.028532667	PASS
HLA-DPB1	6	33075926	33087201	0.028532667	PASS
HLA-DQA1	6	32628179	32647062	0.028532667	PASS
HLA-DQA2	6	32741342	32747215	0.028532667	PASS
HLA-DQB1	6	32659467	32668383	0.028532667	PASS
HLA-DQB2	6	32756098	32763534	0.028532667	PASS
HLA-DRA	6	32439842	32445046	0.028532667	PASS
HLA-DRB1	6	32578769	32589848	0.028532667	PASS

HLA-DRB	6	32517343	32530287	0.028532667	PASS
HLA-E	6	30489467	30494205	0.069043418	PASS
HLA-F	6	29722775	29738528	0.069043418	PASS
HLA-G	6	29826967	29831125	0.069043418	PASS
HLCS	21	36750888	36990236	0.209983559	PASS
HLF	17	55265012	55325065	0.051798665	PASS
HLTF	3	149030127	149086554	0.02267528	PASS
HLX	1	220879400	220885059	-0.204996646	suppress_segment_too_large
HM13	20	31514410	31577923	-0.172056771	suppress_segment_too_large
HMBOX1	8	28890394	29064764	-0.311940419	PASS
HMBS	11	119084866	119093549	-0.431650509	PASS
HMCES	3	129278828	129306186	0.06434429	PASS
HMCN1	1	185734551	186190949	0.088103245	PASS
HMCN2	9	130265882	130434123	0.073960965	PASS
HMG20A	15	77420412	77485607	-0.759380635	PASS
HMG20B	19	3572777	3579088	-0.071973357	PASS
HMGA1	6	34236873	34246231	0.028532667	PASS
HMGA2	12	65824131	65966295	-0.743220499	PASS
HMGB1	13	30456704	30617597	-0.398748891	PASS
HMGB2	4	173331695	173335125	0.142431244	suppress_segment_too_large
HMGB3	23	150980509	150990775	0.158844052	PASS
HMGB4	1	33860475	33864791	0.048749694	PASS
HMGCL	1	23801885	23838620	0.048749694	PASS
HMGCLL1	6	55434369	55579214	0.239805577	suppress_segment_too_large
HMGCR	5	75336329	75362104	-0.393084436	PASS
HMGCS1	5	43289395	43313512	-0.284712224	PASS
HMGCS2	1	119747996	119768905	0.079255572	PASS
HMGN1	21	39342315	39349647	0.209983559	PASS
HMGN2	1	26472450	26475972	0.048749694	PASS
HMGN3	6	79201245	79234738	-0.250122709	PASS
HMGN4	6	26538405	26546254	0.069043418	PASS
HMGN5	23	81113701	81201942	0.158844052	PASS
HMGXB3	5	150000046	150053142	-0.393084436	PASS
HMGXB4	22	35257452	35295807	-0.740245994	PASS
HMHB1	5	143812161	143820719	-0.393084436	PASS
HMMR	5	163460203	163491945	0.165341871	suppress_segment_too_large
HMOX1	22	35380361	35394214	-0.740245994	PASS
HMOX2	16	4474690	4510347	0.053595371	PASS
HMSD	18	63949301	63981774	-0.330515409	PASS
HMX1	4	8846076	8871817	-0.358623662	PASS
HMX2	10	123148122	123150672	0.073090211	PASS
HMX3	10	123135962	123137741	0.073090211	PASS
HNF1A	12	120978543	121002512	0.028722739	PASS
HNF1B	17	37686432	37745247	0.041294512	PASS
HNF4A	20	44355700	44434596	-0.172056771	suppress_segment_too_large
HNF4G	8	75407914	75566843	0.182873287	suppress_segment_too_large
HNMT	2	137964020	138016364	-0.359440172	PASS
HNRNPA0	5	137745651	137754376	-0.393084436	PASS
HNRNPA1	12	54280193	54287088	-0.743220499	PASS
HNRNPA1	13	52642425	52643796	-0.384313056	PASS
HNRNPA1	16	51553436	51647132	-0.423061015	PASS
HNRNPA2	7	26173057	26201529	-0.72421718	PASS
HNRNPA3	2	177212563	177223958	0.033541467	PASS
HNRNPAB	5	178204507	178211163	0.165341871	suppress_segment_too_large

HNRNPC	14	21209136	21269494	0.053252507	PASS
HNRNPCL	1	12847408	12848725	0.048749694	PASS
HNRNPCL	1	13115496	13116854	0.048749694	PASS
HNRNPCL	1	13060869	13062229	0.048749694	PASS
HNRNPD	4	82352498	82374503	-0.677982248	PASS
HNRNPDL	4	82422564	82430408	-0.677982248	PASS
HNRNPF	10	43385617	43409166	-0.389033546	PASS
HNRNPH1	5	179614178	179634784	0.165341871	suppress_segment_too_large
HNRNPH2	23	101408295	101414133	0.158844052	PASS
HNRNPH3	10	68331174	68343191	0.032351597	PASS
HNRNPK	9	83968083	83980616	0.073960965	PASS
HNRNPL	19	38836388	38852347	0.048917043	PASS
HNRNPLL	2	38561978	38603586	0.034263343	PASS
HNRNPM	19	8444767	8489114	-0.071973357	PASS
HNRNPR	1	23303771	23344336	0.048749694	PASS
HNRNPU	1	244840638	244864560	-0.145670469	suppress_likely_unfocal_large_gain
HNRNPUL	19	41262496	41307598	0.048917043	PASS
HNRNPUL	11	62712630	62727472	0.064535884	PASS
HNRNPUL	11	62690275	62727384	0.064535884	PASS
HOGA1	10	97584323	97612802	-0.414937136	PASS
HOMER1	5	79372636	79514217	-0.393084436	PASS
HOMER2	15	82836946	82986153	-0.759380635	PASS
HOMER3	19	18929201	18941261	-0.069222905	PASS
HOMEZ	14	23272422	23299447	0.053252507	PASS
HOOK1	1	59814786	59876378	-0.736943052	PASS
HOOK2	19	12763003	12872740	-0.069222905	PASS
HOOK3	8	42896932	43030539	0.182873287	suppress_segment_too_large
HOPX	4	56647988	56681899	0.115781418	suppress_segment_too_large
HORMAD	1	150698060	150720888	0.079255572	PASS
HORMAD	22	30080174	30177075	-0.740245994	PASS
HOXA1	7	27092993	27095996	-0.72421718	PASS
HOXA10	7	27170591	27180261	-0.72421718	PASS
HOXA11	7	27181510	27185223	-0.72421718	PASS
HOXA13	7	27193503	27200106	-0.72421718	PASS
HOXA2	7	27100354	27102811	-0.72421718	PASS
HOXA3	7	27106184	27152581	-0.72421718	PASS
HOXA4	7	27128507	27130799	-0.72421718	PASS
HOXA5	7	27141052	27143668	-0.72421718	PASS
HOXA6	7	27145396	27150603	-0.72421718	PASS
HOXA7	7	27153716	27157936	-0.72421718	PASS
HOXA9	7	27162435	27175180	-0.72421718	PASS
HOXB1	17	48528526	48531001	0.051798665	PASS
HOXB13	17	48724763	48729178	0.051798665	PASS
HOXB2	17	48540894	48544989	0.051798665	PASS
HOXB3	17	48548870	48604912	0.051798665	PASS
HOXB4	17	48575513	48580111	0.051798665	PASS
HOXB5	17	48591257	48593961	0.051798665	PASS
HOXB6	17	48595751	48604992	0.051798665	PASS
HOXB7	17	48607227	48633572	0.051798665	PASS
HOXB8	17	48611377	48614939	0.051798665	PASS
HOXB9	17	48621159	48626356	0.051798665	PASS
HOXC10	12	53985065	53990279	-0.743220499	PASS
HOXC11	12	53973126	53977643	-0.743220499	PASS
HOXC12	12	53954834	53958956	-0.743220499	PASS

HOXC13	12	53938765	53946544	-0.743220499	PASS
HOXC4	12	54016931	54056030	-0.743220499	PASS
HOXC5	12	54032853	54035358	-0.743220499	PASS
HOXC6	12	53990624	54030823	-0.743220499	PASS
HOXC8	12	54009106	54012362	-0.743220499	PASS
HOXC9	12	53994895	54003337	-0.743220499	PASS
HOXD1	2	176188579	176190907	0.033541467	PASS
HOXD10	2	176108790	176119942	0.033541467	PASS
HOXD11	2	176104216	176109754	0.033541467	PASS
HOXD12	2	176099730	176101193	0.033541467	PASS
HOXD13	2	176092891	176095938	0.033541467	PASS
HOXD3	2	176136612	176173102	0.033541467	PASS
HOXD4	2	176151222	176153226	0.033541467	PASS
HOXD8	2	176129694	176132695	0.033541467	PASS
HOXD9	2	176122720	176124937	0.033541467	PASS
HP	16	72054592	72061055	-0.423061015	PASS
HP1BP3	1	20742661	20787323	0.048749694	PASS
HPCA	1	32885994	32898441	0.048749694	PASS
HPCAL1	2	10302889	10427617	0.034263343	PASS
HPCAL4	1	39678648	39691689	0.048749694	PASS
HPD	12	121839527	121863596	0.028722739	PASS
HPDL	1	45326905	45328533	-0.736943052	PASS
HPF1	4	169729465	169757953	0.142431244	suppress_segment_too_large
HPGD	4	174490177	174523154	0.142431244	suppress_segment_too_large
HPGDS	4	94298535	94342876	-0.677982248	PASS
HPN	19	35040506	35066571	0.044838622	PASS
HPR	16	72063148	72077246	-0.423061015	PASS
HPRT1	23	134460153	134520513	0.158844052	PASS
HPS1	10	98416198	98446947	-0.414937136	PASS
HPS3	3	149129584	149173732	0.02267528	PASS
HPS4	22	26443423	26483837	-0.740245994	PASS
HPS5	11	18278668	18322198	-0.39835217	PASS
HPS6	10	102065390	102068038	-0.414937136	PASS
HPSE	4	83292461	83335153	-0.677982248	PASS
HPSE2	10	98457077	99235862	-0.414937136	PASS
HPX	11	6431049	6442617	-0.39835217	PASS
HR	8	22114415	22133384	-0.311940419	PASS
HRAS	11	532242	537287	-0.39835217	PASS
HRASLS	3	193241125	193277738	0.02267528	PASS
HRASLS2	11	63552770	63563383	0.064535884	PASS
HRASLS5	11	63461404	63491194	0.064535884	PASS
HRC	19	49151198	49155424	0.002743503	PASS
HRCT1	9	35906192	35907141	0.073960965	PASS
HRG	3	186660216	186678240	0.02267528	PASS
HRH1	3	11137093	11263557	0.06149513	PASS
HRH2	5	175658030	175710756	0.165341871	suppress_segment_too_large
HRH3	20	62214970	62220267	-0.172056771	suppress_segment_too_large
HRH4	18	24460629	24479957	-0.330515409	PASS
HRNR	1	152212082	152224193	0.546958914	PASS
HS1BP3	2	20560448	20651089	0.034263343	PASS
HS2ST1	1	86914648	87109998	0.079255572	PASS
HS3ST1	4	11393150	11429765	-0.358623662	PASS
HS3ST2	16	22814177	22916338	0.053595371	PASS
HS3ST3A1	17	13495689	13601927	0.06854245	PASS

HS3ST3B1	17	14301083	14349404	0.06854245	PASS
HS3ST4	16	25692026	26137688	0.053595371	PASS
HS3ST5	6	114055586	114343045	-0.355603029	PASS
HS3ST6	16	1911463	1918440	0.053595371	PASS
HS6ST1	2	128236716	128318577	-0.359440172	PASS
HS6ST2	23	132626016	132961395	0.158844052	PASS
HS6ST3	13	96090839	96839562	-0.384313056	PASS
HSBP1	16	83807843	83819737	-0.423061015	PASS
HSBP1L1	18	79964561	79970822	-0.330515409	PASS
HSCB	22	28742031	28757515	-0.740245994	PASS
HSD11B1	1	209686178	209734950	-0.204996646	suppress_segment_too_large
HSD11B1I	19	5680604	5688523	-0.071973357	PASS
HSD11B2	16	67430652	67437553	-0.423061015	PASS
HSD17B1	17	42549214	42555213	0.041294512	PASS
HSD17B10	23	53431258	53434373	0.158844052	PASS
HSD17B11	4	87336610	87391386	-0.677982248	PASS
HSD17B12	11	43680558	43856617	0.059795455	PASS
HSD17B13	4	87303789	87322906	-0.677982248	PASS
HSD17B14	19	48813017	48836678	0.002743503	PASS
HSD17B2	16	82035004	82098534	-0.423061015	PASS
HSD17B3	9	96235306	96302176	0.073960965	PASS
HSD17B4	5	119452443	119637199	-0.393084436	PASS
HSD17B6	12	56752161	56787790	-0.743220499	PASS
HSD17B7	1	162790702	162812817	0.088103245	PASS
HSD17B8	6	33204642	33206831	0.028532667	PASS
HSD3B1	1	119507198	119515054	0.079255572	PASS
HSD3B2	1	119414931	119423035	0.079255572	PASS
HSD3B7	16	30985207	30989152	0.053595371	PASS
HSDL1	16	84122146	84145192	-0.423061015	PASS
HSDL2	9	112379937	112472410	0.073960965	PASS
HSF1	8	144291591	144314722	0.699132336	PASS
HSF2	6	122399546	122433119	-0.355603029	PASS
HSF2BP	21	43529192	43659493	0.209983559	PASS
HSF4	16	67164681	67169945	-0.423061015	PASS
HSF5	17	58420167	58488384	0.051798665	PASS
HSFX1	23	149774068	149776867	0.158844052	PASS
HSFX3	23	149548210	149549932	0.158844052	PASS
HSFX4	23	149929645	149931287	0.158844052	PASS
HSH2D	19	16134028	16158575	-0.069222905	PASS
HSP90AA1	14	102080738	102139699	-0.155273506	suppress_segment_too_large
HSP90AB1	6	44246166	44253888	0.028532667	PASS
HSP90B1	12	103930107	103953645	0.028722739	PASS
HSPA12A	10	116671192	116850236	0.073090211	PASS
HSPA12B	20	3732667	3753111	-0.172056771	suppress_segment_too_large
HSPA13	21	14371115	14383484	0.758930684	suppress_segment_too_large
HSPA14	10	14838160	14871741	0.075711544	PASS
HSPA1A	6	31815464	31817946	0.028532667	PASS
HSPA1B	6	31827735	31830255	0.028532667	PASS
HSPA1L	6	31809619	31815065	0.028532667	PASS
HSPA2	14	64535905	64546173	0.053252507	PASS
HSPA4	5	133051962	133106449	-0.393084436	PASS
HSPA4L	4	127781821	127840733	0.142431244	suppress_segment_too_large
HSPA5	9	125234853	125241330	0.073960965	PASS
HSPA6	1	161524540	161526910	0.088103245	PASS

HSPA8	11	123057489	123063230	-0.431650509	PASS
HSPA9	5	138553756	138575724	-0.393084436	PASS
HSPB1	7	76302544	76304295	-0.701511252	PASS
HSPB11	1	53916574	53945929	-0.736943052	PASS
HSPB2	11	111912242	111914093	-0.431650509	PASS
HSPB2-C1	11	111912736	111926871	-0.431650509	PASS
HSPB3	5	54455601	54456384	-0.284712224	PASS
HSPB6	19	35754569	35758079	0.044838622	PASS
HSPB7	1	16014028	16019594	0.048749694	PASS
HSPB8	12	119178642	119221131	0.028722739	PASS
HSPB9	17	42121431	42123352	0.041294512	PASS
HSPBAP1	3	122740003	122793824	0.06434429	PASS
HSPBP1	19	55262231	55280381	0.142581352	PASS
HSPD1	2	197486581	197516737	0.011001208	PASS
HSPE1	2	197499994	197503457	0.011001208	PASS
HSPE1-MC	2	197500413	197550726	0.011001208	PASS
HSPG2	1	21822245	21937297	0.048749694	PASS
HSPH1	13	31134974	31162388	-0.398748891	PASS
HTATIP2	11	20363685	20383783	-0.39835217	PASS
HTATSF1	23	136497079	136512346	0.158844052	PASS
HTD2	3	58306262	58318574	-0.727808231	PASS
HTN1	4	70050402	70058845	0.115781418	suppress_segment_too_large
HTN3	4	70028413	70036538	0.115781418	suppress_segment_too_large
HTR1A	5	63960356	63962507	-0.393084436	PASS
HTR1B	6	77461753	77463773	-0.250122709	PASS
HTR1D	1	23191895	23194729	0.048749694	PASS
HTR1E	6	86937306	87016683	-0.355603029	PASS
HTR1F	3	87990696	87993835	0.22470242	PASS
HTR2A	13	46831550	46897076	-0.398748891	PASS
HTR2B	2	231108230	231125118	0.011001208	PASS
HTR2C	23	114584078	114910061	0.158844052	PASS
HTR3A	11	113974881	113990313	-0.431650509	PASS
HTR3B	11	113904677	113946565	-0.431650509	PASS
HTR3C	3	184053047	184060671	0.02267528	PASS
HTR3D	3	184031544	184039369	0.02267528	PASS
HTR3E	3	184097064	184106995	0.02267528	PASS
HTR4	5	148451032	148677235	-0.393084436	PASS
HTR5A	7	155070324	155087392	-0.77630473	PASS
HTR6	1	19665287	19679562	0.048749694	PASS
HTR7	10	90740823	90857698	-0.414937136	PASS
HTRA1	10	122458551	122514908	0.073090211	PASS
HTRA2	2	74529377	74533348	-0.46122572	PASS
HTRA3	4	8269765	8307111	-0.358623662	PASS
HTRA4	8	38974164	38988662	0.182873287	suppress_segment_too_large
HTT	4	3041422	3243960	-0.358623662	PASS
HUNK	21	31873315	32044633	0.209983559	PASS
HUS1	7	47963288	47979553	-0.72421718	PASS
HUS1B	6	655939	656963	0.069043418	PASS
HUWE1	23	53532096	53686729	0.158844052	PASS
HVCN1	12	110627841	110704950	0.028722739	PASS
HYAL1	3	50299889	50312381	-0.727808231	PASS
HYAL2	3	50317790	50322906	-0.727808231	PASS
HYAL3	3	50292831	50299468	-0.727808231	PASS
HYAL4	7	123828983	123877478	-0.712149877	PASS

HYDIN	16	70807378	71230722	-0.423061015	PASS
HYI	1	43451003	43453989	-0.736943052	PASS
HYKK	15	78507564	78537372	-0.759380635	PASS
HYLS1	11	125883614	125900648	-0.431650509	PASS
HYOU1	11	119044189	119057202	-0.431650509	PASS
HYPK	15	43796142	43803043	-0.423772929	PASS
HYPM	23	37990817	37991317	0.158844052	PASS
IAH1	2	9473658	9496543	0.034263343	PASS
IAPP	12	21354959	21379978	0.49032213	suppress_segment_too_large
IARS	9	92210207	92293756	0.073960965	PASS
IARS2	1	220094102	220148041	-0.204996646	suppress_segment_too_large
IBA57	1	228165815	228182257	-0.204996646	suppress_segment_too_large
IBSP	4	87799581	87812435	-0.677982248	PASS
IBTK	6	82169983	82247754	-0.250122709	PASS
ICA1	7	8113184	8262687	-0.72421718	PASS
ICA1L	2	202773150	202871985	0.011001208	PASS
ICAM1	19	10270835	10286615	-0.107594294	PASS
ICAM2	17	64002594	64020634	0.051798665	PASS
ICAM3	19	10333776	10339823	-0.107594294	PASS
ICAM4	19	10286967	10288522	-0.107594294	PASS
ICAM5	19	10289981	10296778	-0.107594294	PASS
ICE1	5	5420664	5490234	0.073527871	PASS
ICE2	15	60419609	60479160	-0.759380635	PASS
ICK	6	53001279	53061802	0.239805577	suppress_segment_too_large
ICMT	1	6221193	6235972	0.364796772	PASS
ICOS	2	203936748	203961577	0.011001208	PASS
ID1	20	31605283	31606515	-0.172056771	suppress_segment_too_large
ID2	2	8678845	8684453	0.034263343	PASS
ID3	1	23557918	23559794	0.048749694	PASS
ID4	6	19837386	19840684	0.069043418	PASS
IDE	10	92451684	92574076	-0.414937136	PASS
IDH1	2	208236227	208266074	0.011001208	PASS
IDH2	15	90083045	90102504	-0.759380635	PASS
IDH3A	15	78131498	78171949	-0.759380635	PASS
IDH3B	20	2658395	2664219	-0.172056771	suppress_segment_too_large
IDH3G	23	153785766	153794523	0.158844052	PASS
IDI1	10	1039152	1049170	0.075711544	PASS
IDI2	10	1018907	1025859	0.075711544	PASS
IDNK	9	83623049	83644130	0.073960965	PASS
IDO1	8	39902275	39928444	0.182873287	suppress_segment_too_large
IDO2	8	39934614	40016391	0.182873287	suppress_segment_too_large
IDS	23	149476990	149521096	0.158844052	PASS
IDUA	4	986997	1004506	-0.358623662	PASS
IER2	19	13150415	13154908	-0.069222905	PASS
IER3	6	30743199	30744554	0.069043418	PASS
IER3IP1	18	47152834	47176374	-0.330515409	PASS
IER5	1	181088712	181092899	0.088103245	PASS
IER5L	9	129175552	129178262	0.073960965	PASS
IFFO1	12	6538375	6556083	-0.015029783	PASS
IFFO2	1	18904281	18956686	0.048749694	PASS
IFI16	1	158999968	159055155	0.088103245	PASS
IFI27	14	94104836	94116698	-0.155273506	suppress_segment_too_large
IFI27L1	14	94081282	94103846	-0.155273506	suppress_segment_too_large
IFI27L2	14	94127779	94130253	-0.155273506	suppress_segment_too_large

IFI30	19	18173162	18178117	-0.069222905	PASS
IFI35	17	43006725	43014456	0.041294512	PASS
IFI44	1	78649796	78664078	0.587598296	PASS
IFI44L	1	78619922	78646145	0.587598296	PASS
IFI6	1	27666061	27672218	0.048749694	PASS
IFIH1	2	162267079	162318703	0.319987345	PASS
IFIT1	10	89392546	89406486	-0.414937136	PASS
IFIT1B	10	89378056	89385205	-0.414937136	PASS
IFIT2	10	89283694	89309276	-0.414937136	PASS
IFIT3	10	89327894	89340971	-0.414937136	PASS
IFIT5	10	89414586	89421001	-0.414937136	PASS
IFITM1	11	313506	315272	-0.39835217	PASS
IFITM10	11	1732410	1750591	-0.39835217	PASS
IFITM2	11	307631	315272	-0.39835217	PASS
IFITM3	11	319669	327537	-0.39835217	PASS
IFITM5	11	298200	299526	-0.39835217	PASS
IFNA1	9	21440454	21441316	0.073960965	PASS
IFNA10	9	21206181	21207143	0.073960965	PASS
IFNA13	9	21367424	21368962	0.073960965	PASS
IFNA14	9	21239002	21239991	0.073960965	PASS
IFNA16	9	21216373	21217311	0.073960965	PASS
IFNA17	9	21227243	21228222	0.073960965	PASS
IFNA2	9	21384254	21385388	0.073960965	PASS
IFNA21	9	21165637	21166660	0.073960965	PASS
IFNA4	9	21186694	21187671	0.073960965	PASS
IFNA5	9	21304326	21305312	0.073960965	PASS
IFNA6	9	21349835	21351378	0.073960965	PASS
IFNA7	9	21201469	21202205	0.073960965	PASS
IFNA8	9	21409147	21410185	0.073960965	PASS
IFNAR1	21	33324477	33359862	0.209983559	PASS
IFNAR2	21	33229901	33265675	0.209983559	PASS
IFNB1	9	21077105	21077963	0.073960965	PASS
IFNE	9	21480839	21482313	0.073960965	PASS
IFNG	12	68154768	68159747	-0.743220499	PASS
IFNGR1	6	137197484	137219449	0.033894706	PASS
IFNGR2	21	33402896	33479348	0.209983559	PASS
IFNK	9	27524314	27526498	0.073960965	PASS
IFNL1	19	39296325	39298673	0.048917043	PASS
IFNL2	19	39268514	39270092	0.048917043	PASS
IFNL3	19	39243553	39245129	0.048917043	PASS
IFNLR1	1	24154157	24187959	0.048749694	PASS
IFNW1	9	21140214	21142145	0.073960965	PASS
IFRD1	7	112422968	112481017	-0.712149877	PASS
IFRD2	3	50287732	50292918	-0.727808231	PASS
IFT122	3	129440036	129520507	0.06434429	PASS
IFT140	16	1510427	1612110	0.053595371	PASS
IFT172	2	27444371	27489789	0.034263343	PASS
IFT20	17	28328325	28335489	0.041294512	PASS
IFT22	7	101313367	101321823	-0.712149877	PASS
IFT27	22	36758202	36776256	-0.740245994	PASS
IFT43	14	75902136	76084585	-0.155273506	suppress_segment_too_large
IFT46	11	118544528	118572970	-0.431650509	PASS
IFT52	20	43590931	43647296	-0.172056771	suppress_segment_too_large
IFT57	3	108160812	108222570	0.22470242	PASS

IFT74	9	26947039	27062930	0.073960965	PASS
IFT80	3	160256986	160399880	0.02267528	PASS
IFT81	12	110124335	110218797	0.028722739	PASS
IFT88	13	20567069	20691437	-0.398748891	PASS
IGBP1	23	70133449	70166324	0.158844052	PASS
IGDCC3	15	65327127	65378040	-0.759380635	PASS
IGDCC4	15	65381464	65423072	-0.759380635	PASS
IGF1	12	102395874	102481744	0.028722739	PASS
IGF1R	15	98648539	98964530	-0.759380635	PASS
IGF2	11	2129112	2158658	-0.39835217	PASS
IGF2BP1	17	48997412	49055650	0.051798665	PASS
IGF2BP2	3	185643739	185825056	0.02267528	PASS
IGF2BP3	7	23310209	23470467	-0.72421718	PASS
IGF2R	6	159969099	160113507	0.033894706	PASS
IGFALS	16	1790413	1794971	0.053595371	PASS
IGFBP1	7	45888357	45893668	-0.72421718	PASS
IGFBP2	2	216632828	216664436	0.011001208	PASS
IGFBP3	7	45912245	45921874	-0.72421718	PASS
IGFBP4	17	40443461	40457731	0.041294512	PASS
IGFBP5	2	216672105	216695525	0.011001208	PASS
IGFBP6	12	53097436	53102345	-0.743220499	PASS
IGFBP7	4	57030773	57110385	0.115781418	suppress_segment_too_large
IGFBPL1	9	38408994	38424447	0.073960965	PASS
IGFL1	19	46229752	46231243	0.002743503	PASS
IGFL2	19	46143106	46161299	0.002743503	PASS
IGFL3	19	46120071	46124674	0.002743503	PASS
IGFL4	19	46039748	46077118	0.002743503	PASS
IGFLR1	19	35738801	35742453	0.044838622	PASS
IGFN1	1	201190825	201228952	-0.204996646	suppress_segment_too_large
IGHMBP2	11	68903842	68940602	0.064535884	PASS
IGIP	5	140125935	140129392	-0.393084436	PASS
IGLL1	22	23573125	23580308	-0.740245994	PASS
IGLL5	22	22887780	22896107	-0.740245994	PASS
IGLON5	19	51311848	51330354	0.002743503	PASS
IGSF1	23	131273506	131578899	0.158844052	PASS
IGSF10	3	151425384	151458709	0.02267528	PASS
IGSF11	3	118900557	119146068	0.06434429	PASS
IGSF21	1	18107746	18378483	0.048749694	PASS
IGSF22	11	18704305	18726230	-0.39835217	PASS
IGSF23	19	44613630	44636781	0.002743503	PASS
IGSF3	1	116574399	116667755	0.079255572	PASS
IGSF5	21	39745407	39802096	0.209983559	PASS
IGSF6	16	21639537	21652660	0.053595371	PASS
IGSF8	1	160091340	160098943	0.088103245	PASS
IGSF9	1	159927039	159945604	0.088103245	PASS
IGSF9B	11	133908564	133956985	0.105032849	PASS
IHH	2	219054420	219060467	0.011001208	PASS
IK	5	140647058	140662479	-0.393084436	PASS
IKBIP	12	98613405	98645113	0.028722739	PASS
IKBKB	8	42271302	42332653	0.182873287	suppress_segment_too_large
IKBKE	1	206470476	206496889	-0.204996646	suppress_segment_too_large
IKBKG	23	154541199	154565046	0.158844052	PASS
IKZF1	7	50304068	50405101	-0.701511252	PASS
IKZF2	2	212999691	213152427	0.011001208	PASS

IKZF3	17	39757715	39864188	0.041294512	PASS
IKZF4	12	56007659	56038435	-0.743220499	PASS
IKZF5	10	122990806	123008817	0.073090211	PASS
IL10	1	206767602	206772494	-0.204996646	suppress_segment_too_large
IL10RA	11	117986348	118003037	-0.431650509	PASS
IL10RB	21	33266358	33310187	0.209983559	PASS
IL11	19	55364389	55370463	0.142581352	PASS
IL11RA	9	34650702	34661892	0.073960965	PASS
IL12A	3	159988750	159996019	0.02267528	PASS
IL12B	5	159314783	159330887	0.165341871	suppress_segment_too_large
IL12RB1	19	18058995	18098944	-0.069222905	PASS
IL12RB2	1	67307364	67397090	0.052232535	PASS
IL13	5	132656263	132661110	-0.393084436	PASS
IL13RA1	23	118727572	118794539	0.158844052	PASS
IL13RA2	23	115003975	115019977	0.158844052	PASS
IL15	4	141636599	141733987	0.142431244	suppress_segment_too_large
IL15RA	10	5943639	5978187	0.075711544	PASS
IL16	15	81159575	81314058	-0.759380635	PASS
IL17A	6	52186375	52190638	0.239805577	suppress_segment_too_large
IL17B	5	149371324	149404202	-0.393084436	PASS
IL17C	16	88638591	88640473	-0.423061015	PASS
IL17D	13	20702127	20723098	-0.398748891	PASS
IL17F	6	52236681	52244537	0.239805577	suppress_segment_too_large
IL17RA	22	17084954	17115694	-0.740245994	PASS
IL17RB	3	53846580	53865800	-0.727808231	PASS
IL17RC	3	9917074	9933630	0.06149513	PASS
IL17RD	3	57089982	57170306	-0.727808231	PASS
IL17RE	3	9902612	9916402	0.06149513	PASS
IL17REL	22	49994513	50012659	-0.953096644	PASS
IL18	11	112143251	112164117	-0.431650509	PASS
IL18BP	11	71998541	72005715	0.064535884	PASS
IL18R1	2	102311529	102398775	0.064122364	PASS
IL18RAP	2	102418689	102452565	0.064122364	PASS
IL19	1	206798870	206842981	-0.204996646	suppress_segment_too_large
IL1A	2	112773915	112784590	0.040971718	PASS
IL1B	2	112829751	112836903	0.040971718	PASS
IL1F10	2	113067970	113075850	0.040971718	PASS
IL1R1	2	102064544	102179874	0.064122364	PASS
IL1R2	2	101991844	102028544	0.064122364	PASS
IL1RAP	3	190514051	190659750	0.02267528	PASS
IL1RAPL1	23	28587399	29956723	0.158844052	PASS
IL1RAPL2	23	104566315	105767829	0.158844052	PASS
IL1RL1	2	102311502	102352037	0.064122364	PASS
IL1RL2	2	102186973	102240002	0.064122364	PASS
IL1RN	2	113107214	113134016	0.040971718	PASS
IL2	4	122451470	122456725	0.142431244	suppress_segment_too_large
IL20	1	206865354	206869223	-0.204996646	suppress_segment_too_large
IL20RA	6	136999971	137045180	0.033894706	PASS
IL20RB	3	136946230	137011085	0.06434429	PASS
IL21	4	122610108	122621069	0.142431244	suppress_segment_too_large
IL21R	16	27402162	27452042	0.053595371	PASS
IL22	12	68248242	68253604	-0.743220499	PASS
IL22RA1	1	24119771	24143121	0.048749694	PASS
IL22RA2	6	137143820	137173648	0.033894706	PASS

IL23A	12	56334174	56340410	-0.743220499	PASS
IL23R	1	67138907	67259979	0.052232535	PASS
IL24	1	206897443	206904139	-0.204996646	suppress_segment_too_large
IL25	14	23372809	23376403	0.053252507	PASS
IL26	12	68201351	68225821	-0.743220499	PASS
IL27	16	28499362	28512051	0.053595371	PASS
IL27RA	19	14031748	14053216	-0.069222905	PASS
IL2RA	10	6010689	6062370	0.075711544	PASS
IL2RB	22	37125838	37175054	-0.740245994	PASS
IL2RG	23	71107404	71112108	0.158844052	PASS
IL3	5	132060529	132063204	-0.393084436	PASS
IL31	12	122172030	122174199	0.028722739	PASS
IL31RA	5	55851379	55922853	-0.284712224	PASS
IL32	16	3065297	3082192	0.053595371	PASS
IL33	9	6215786	6257983	0.073960965	PASS
IL34	16	70579895	70660682	-0.423061015	PASS
IL36A	2	113005461	113008044	0.040971718	PASS
IL36B	2	113022091	113052867	0.040971718	PASS
IL36G	2	112973203	112985665	0.040971718	PASS
IL36RN	2	113058638	113065382	0.040971718	PASS
IL37	2	112912971	112918882	0.040971718	PASS
IL3RA	23	1336616	1382689	-0.350651546	PASS
IL4	5	132673986	132682676	-0.393084436	PASS
IL4I1	19	49889654	49929539	0.002743503	PASS
IL4R	16	27313668	27364778	0.053595371	PASS
IL5	5	132541444	132556838	-0.393084436	PASS
IL5RA	3	3066326	3126613	0.06149513	PASS
IL6	7	22725884	22732002	-0.72421718	PASS
IL6R	1	154405193	154469450	0.088103245	PASS
IL6ST	5	55935095	55994993	-0.284712224	PASS
IL7	8	78675743	78805523	0.617295349	suppress_segment_too_large
IL7R	5	35852695	35879603	0.073527871	PASS
IL9	5	135892246	135895827	-0.393084436	PASS
IL9R	23	155997581	156010817	-0.537824465	PASS
ILDR1	3	121987323	122022258	0.06434429	PASS
ILDR2	1	166895711	166975482	0.088103245	PASS
ILF2	1	153661788	153671048	0.088103245	PASS
ILF3	19	10654261	10692417	-0.107594294	PASS
ILK	11	6603708	6610874	-0.39835217	PASS
ILKAP	2	238170401	238203729	0.011001208	PASS
ILVBL	19	15114984	15125785	-0.069222905	PASS
IMMP1L	11	31432401	31509645	-0.359426047	PASS
IMMP2L	7	110663051	111562517	-0.712149877	PASS
IMMT	2	86143932	86195770	0.064122364	PASS
IMP3	15	75639085	75648706	-0.759380635	PASS
IMP4	2	130342225	130347810	-0.359440172	PASS
IMPA1	8	81657961	81686693	0.617295349	suppress_segment_too_large
IMPA2	18	11981025	12030883	0.044197172	PASS
IMPACT	18	24426616	24453535	-0.330515409	PASS
IMPAD1	8	56957933	56993844	0.182873287	suppress_segment_too_large
IMPDH1	7	128392277	128410252	-0.712149877	PASS
IMPDH2	3	49024325	49029408	-0.727808231	PASS
IMPG1	6	75921115	76072678	-0.250122709	PASS
IMPG2	3	101222546	101320560	0.22470242	PASS

INA	10	103277163	103290351	-0.414937136	PASS
INAFM1	19	47274453	47275707	0.002743503	PASS
INAFM2	15	40323664	40326715	-0.423772929	PASS
INAVA	1	200891048	200915735	-0.204996646	suppress_segment_too_large
INCA1	17	4988130	4997610	0.06854245	PASS
INCENP	11	62123973	62153163	0.064535884	PASS
INF2	14	104689606	104722535	-0.155273506	suppress_segment_too_large
ING1	13	110712736	110723339	-0.426822582	PASS
ING2	4	183504994	183511096	-0.453876349	PASS
ING3	7	120950749	120977216	-0.712149877	PASS
ING4	12	6650280	6663148	-0.015029783	PASS
INHA	2	219569162	219575713	0.011001208	PASS
INHBA	7	41667168	41705834	-0.72421718	PASS
INHBB	2	120346143	120351808	-0.359440172	PASS
INHBC	12	57434760	57450828	-0.743220499	PASS
INHBE	12	57452323	57459280	-0.743220499	PASS
INIP	9	112683926	112718236	0.073960965	PASS
INKA1	3	49803254	49805030	-0.727808231	PASS
INKA2	1	111680630	111739424	0.079255572	PASS
INMT	7	30697985	30757602	-0.72421718	PASS
INMT-MIN	7	30752137	30892081	-0.72421718	PASS
INO80	15	40978880	41116354	-0.423772929	PASS
INO80B	2	74455023	74457960	-0.46122572	PASS
INO80B-W	2	74455088	74460884	-0.46122572	PASS
INO80C	18	35452230	35497991	-0.330515409	PASS
INO80D	2	205993721	206086303	0.011001208	PASS
INO80E	16	29995294	30005793	0.053595371	PASS
INPP1	2	190343470	190371665	0.011001208	PASS
INPP4A	2	98444854	98594390	0.064122364	PASS
INPP4B	4	142023160	142847432	0.142431244	suppress_segment_too_large
INPP5A	10	132537820	132783480	0.073090211	PASS
INPP5B	1	37860697	37947057	0.048749694	PASS
INPP5D	2	233059967	233207903	0.011001208	PASS
INPP5E	9	136428619	136439823	0.073960965	PASS
INPP5F	10	119726042	119829278	0.073090211	PASS
INPP5J	22	31122731	31134696	-0.740245994	PASS
INPP5K	17	1494571	1516888	0.06854245	PASS
INPPL1	11	72223701	72239105	0.064535884	PASS
INS	11	2159779	2161341	-0.39835217	PASS
INS-IGF2	11	2132538	2161209	-0.39835217	PASS
INSC	11	15112424	15247208	-0.39835217	PASS
INSIG1	7	155297776	155310235	-0.77630473	PASS
INSIG2	2	118088452	118110997	-0.359440172	PASS
INSL3	19	17816512	17821574	-0.069222905	PASS
INSL4	9	5231419	5235304	0.073960965	PASS
INSL5	1	66797741	66801256	0.052232535	PASS
INSL6	9	5123880	5185668	0.073960965	PASS
INSM1	20	20368121	20370949	-0.172056771	suppress_segment_too_large
INSM2	14	35534042	35537054	0.053252507	PASS
INSR	19	7112255	7294034	-0.071973357	PASS
INSRR	1	156840063	156859018	0.088103245	PASS
INSYN1	15	73735431	73752747	-0.759380635	PASS
INSYN2	10	127135426	127196158	0.073090211	PASS
INSYN2B	5	169864264	169980740	0.165341871	suppress_segment_too_large

INTS1	7	1470277	1504367	-0.72421718	PASS
INTS10	8	19817140	19852083	-0.311940419	PASS
INTS11	1	1311585	1324691	-0.358281697	PASS
INTS12	4	105682627	105895986	-0.677982248	PASS
INTS13	12	26905181	26938326	0.49032213	suppress_segment_too_large
INTS14	15	65578753	65611289	-0.759380635	PASS
INTS2	17	61865367	61928016	0.051798665	PASS
INTS3	1	153728067	153774808	0.088103245	PASS
INTS4	11	77878720	77994678	0.064535884	PASS
INTS5	11	62646848	62653302	0.064535884	PASS
INTS6	13	51354077	51454264	-0.384313056	PASS
INTS6L	23	135520643	135582510	0.158844052	PASS
INTS7	1	211940399	212035542	-0.204996646	suppress_segment_too_large
INTS8	8	94813311	94881746	0.355469066	suppress_segment_too_large
INTS9	8	28767661	28890242	-0.311940419	PASS
INTU	4	127623271	127726737	0.142431244	suppress_segment_too_large
INVS	9	100099256	100301000	0.073960965	PASS
IP6K1	3	49724294	49786542	-0.727808231	PASS
IP6K2	3	48688003	48740353	-0.727808231	PASS
IP6K3	6	33721670	33746905	0.028532667	PASS
IPCEF1	6	154154496	154356792	0.033894706	PASS
IPMK	10	58191517	58267934	0.032351597	PASS
IPO11	5	62403972	62628582	0.07724032	PASS
IPO13	1	43946939	43968022	-0.736943052	PASS
IPO4	14	24180219	24188964	0.053252507	PASS
IPO5	13	97953658	98024297	-0.384313056	PASS
IPO7	11	9384622	9448126	-0.39835217	PASS
IPO8	12	30628988	30695986	0.49032213	suppress_segment_too_large
IPO9	1	201829141	201884294	-0.204996646	suppress_segment_too_large
IPP	1	45694324	45750650	-0.736943052	PASS
IPPK	9	92613184	92670265	0.073960965	PASS
IQANK1	8	143734140	143790644	0.699132336	PASS
IQCA1	2	236324147	236507542	0.011001208	PASS
IQCA1L	7	151190873	151205496	-0.712149877	PASS
IQCB1	3	121769763	121835079	0.06434429	PASS
IQCC	1	32205661	32208687	0.048749694	PASS
IQCD	12	113195441	113221094	0.028722739	PASS
IQCE	7	2558972	2614734	-0.72421718	PASS
IQCF1	3	51894876	51903335	-0.727808231	PASS
IQCF2	3	51861629	51863424	-0.727808231	PASS
IQCF3	3	51826883	51830856	-0.727808231	PASS
IQCF5	3	51873721	51875584	-0.727808231	PASS
IQCF6	3	51778561	51779241	-0.727808231	PASS
IQCG	3	197889075	197960142	0.02267528	PASS
IQCH	15	67254800	67502260	-0.759380635	PASS
IQCJ	3	158962928	159266307	0.02267528	PASS
IQCJ-SCH	3	158962235	159897366	0.02267528	PASS
IQCK	16	19716456	19858467	0.053595371	PASS
IQCM	4	149351903	149896233	0.142431244	suppress_segment_too_large
IQCN	19	18257097	18274509	-0.069222905	PASS
IQGAP1	15	90388218	90502243	-0.759380635	PASS
IQGAP2	5	76403249	76708132	-0.393084436	PASS
IQGAP3	1	156525405	156572604	0.088103245	PASS
IQSEC1	3	12897220	13283281	0.06149513	PASS

IQSEC2	23	53225828	53321350	0.158844052	PASS
IQSEC3	12	66765	178460	-0.015029783	PASS
IQUB	7	123452400	123535077	-0.712149877	PASS
IRAK1	23	154010500	154019980	0.158844052	PASS
IRAK1BP1	6	78867472	78946440	-0.250122709	PASS
IRAK2	3	10164865	10243743	0.06149513	PASS
IRAK3	12	66188879	66254622	-0.743220499	PASS
IRAK4	12	43758944	43789543	-0.46813528	PASS
IREB2	15	78437431	78501456	-0.759380635	PASS
IRF1	5	132481609	132490798	-0.393084436	PASS
IRF2	4	184387713	184474580	-0.453876349	PASS
IRF2BP1	19	45883607	45886170	0.002743503	PASS
IRF2BP2	1	234604269	234609525	-0.204996646	suppress_segment_too_large
IRF2BPL	14	77024543	77028699	-0.155273506	suppress_segment_too_large
IRF3	19	49659569	49665875	0.002743503	PASS
IRF4	6	391739	411447	0.069043418	PASS
IRF5	7	128937612	128950035	-0.712149877	PASS
IRF6	1	209785623	209806175	-0.204996646	suppress_segment_too_large
IRF7	11	612553	615999	-0.39835217	PASS
IRF8	16	85898803	85922609	-0.423061015	PASS
IRF9	14	24161053	24166565	0.053252507	PASS
IRGC	19	43716010	43720021	0.048917043	PASS
IRGM	5	150846523	150900736	-0.393084436	PASS
IRGQ	19	43584369	43596135	0.048917043	PASS
IRS1	2	226731317	226799759	0.011001208	PASS
IRS2	13	109752698	109786568	-0.426822582	PASS
IRS4	23	108732482	108736409	0.158844052	PASS
IRX1	5	3596054	3601403	0.073527871	PASS
IRX2	5	2745845	2751662	0.073527871	PASS
IRX3	16	54283304	54286763	-0.423061015	PASS
IRX4	5	1877413	1887236	0.073527871	PASS
IRX5	16	54930862	54934485	-0.423061015	PASS
IRX6	16	55323760	55330760	-0.423061015	PASS
ISCA1	9	86264546	86283102	0.073960965	PASS
ISCA2	14	74493720	74497106	-0.155273506	suppress_segment_too_large
ISCU	12	108562582	108569384	0.028722739	PASS
ISG15	1	1001138	1014540	-0.358281697	PASS
ISG20	15	88636153	88656483	-0.759380635	PASS
ISG20L2	1	156721891	156728799	0.088103245	PASS
ISL1	5	51383391	51394738	-0.284712224	PASS
ISL2	15	76336724	76342476	-0.759380635	PASS
ISLR	15	74173671	74176872	-0.759380635	PASS
ISLR2	15	74100311	74138540	-0.759380635	PASS
ISM1	20	13221771	13300651	-0.172056771	suppress_segment_too_large
ISM2	14	77474394	77498850	-0.155273506	suppress_segment_too_large
ISOC1	5	129094751	129114028	-0.393084436	PASS
ISOC2	19	55452985	55462343	0.142581352	PASS
ISPD	7	16087527	16421322	-0.72421718	PASS
IST1	16	71845996	71931199	-0.423061015	PASS
ISX	22	35066136	35087387	-0.740245994	PASS
ISY1	3	129127415	129161293	0.06434429	PASS
ISY1-RAB	3	129087575	129161036	0.06434429	PASS
ISYNA1	19	18434388	18438301	-0.069222905	PASS
ITCH	20	34363235	34511393	-0.172056771	suppress_segment_too_large

ITFG1	16	47154387	47464149	0.053595371	PASS
ITFG2	12	2812622	2859791	-0.015029783	PASS
ITGA1	5	52787896	52959210	-0.284712224	PASS
ITGA10	1	145891208	145910189	0.079255572	PASS
ITGA11	15	68296533	68432162	-0.759380635	PASS
ITGA2	5	52989326	53094779	-0.284712224	PASS
ITGA2B	17	44372180	44389505	0.051798665	PASS
ITGA3	17	50055968	50090481	0.051798665	PASS
ITGA4	2	181457202	181536187	0.162734012	PASS
ITGA5	12	54395261	54419460	-0.743220499	PASS
ITGA6	2	172427354	172506282	0.033541467	PASS
ITGA7	12	55684568	55716043	-0.743220499	PASS
ITGA8	10	15513949	15720125	0.075711544	PASS
ITGA9	3	37452115	37823514	-0.727808231	PASS
ITGAD	16	31393312	31426505	0.053595371	PASS
ITGAE	17	3714628	3801243	0.06854245	PASS
ITGAL	16	30472658	30523185	0.053595371	PASS
ITGAM	16	31259967	31332892	0.053595371	PASS
ITGAV	2	186590065	186680901	-0.120408457	PASS
ITGAX	16	31355134	31382997	0.053595371	PASS
ITGB1	10	32900319	33005792	0.075711544	PASS
ITGB1BP1	2	9403475	9423547	0.034263343	PASS
ITGB1BP2	23	71301734	71305371	0.158844052	PASS
ITGB2	21	44885953	44931989	0.209983559	PASS
ITGB3	17	47253846	47311816	0.051798665	PASS
ITGB3BP	1	63440770	63593721	0.052232535	PASS
ITGB4	17	75721328	75757818	0.051798665	PASS
ITGB5	3	124761948	124901418	0.06434429	PASS
ITGB6	2	160099666	160200313	0.054749241	PASS
ITGB7	12	53191318	53207307	-0.743220499	PASS
ITGB8	7	20330702	20415754	-0.72421718	PASS
ITGBL1	13	101452593	101720856	-0.384313056	PASS
ITIH1	3	52777592	52792068	-0.727808231	PASS
ITIH2	10	7703269	7749520	0.075711544	PASS
ITIH3	3	52794768	52809009	-0.727808231	PASS
ITIH4	3	52812975	52831479	-0.727808231	PASS
ITIH5	10	7559270	7666998	0.075711544	PASS
ITIH6	23	54748899	54798240	0.158844052	PASS
ITK	5	157142933	157255191	0.165341871	suppress_segment_too_large
ITLN1	1	160876539	160885170	0.088103245	PASS
ITLN2	1	160945025	160954799	0.088103245	PASS
ITM2A	23	79360384	79367667	0.158844052	PASS
ITM2B	13	48232612	48270357	-3.165473388	PASS
ITM2C	2	230864639	230879248	0.011001208	PASS
ITPA	20	3208868	3223870	-0.172056771	suppress_segment_too_large
ITPK1	14	92936914	93116320	-0.155273506	suppress_segment_too_large
ITPKA	15	41493393	41503551	-0.423772929	PASS
ITPKB	1	226631690	226739323	-0.204996646	suppress_segment_too_large
ITPKC	19	40717103	40740860	0.048917043	PASS
ITPR1	3	4493345	4847840	0.06149513	PASS
ITPR2	12	26336515	26833198	0.49032213	suppress_segment_too_large
ITPR3	6	33620365	33696574	0.028532667	PASS
ITPRID1	7	31514071	31658720	-0.72421718	PASS
ITPRID2	2	181891833	181930738	0.162734012	PASS

ITPRIP	10	104309698	104338448	-0.414937136	PASS
ITPRIPL1	2	96325331	96330517	0.064122364	PASS
ITPRIPL2	16	19113932	19121629	0.053595371	PASS
ITSN1	21	33642400	33899861	0.209983559	PASS
ITSN2	2	24202864	24360714	0.034263343	PASS
IVD	15	40405795	40435947	-0.423772929	PASS
IVL	1	152908545	152911886	0.088103245	PASS
IVNS1ABI	1	185296388	185317329	0.088103245	PASS
IWS1	2	127436207	127526886	-0.359440172	PASS
IYD	6	150368892	150405969	0.033894706	PASS
IZUMO1	19	48740852	48746909	0.002743503	PASS
IZUMO1R	11	94305592	94307721	0.064535884	PASS
IZUMO2	19	50152548	50163195	0.002743503	PASS
IZUMO3	9	24542952	24545946	0.073960965	PASS
IZUMO4	19	2096429	2099593	-0.071973357	PASS
JADE1	4	128809623	128875224	0.142431244	suppress_segment_too_large
JADE2	5	134524312	134583230	-0.393084436	PASS
JADE3	23	46912276	47061242	0.158844052	PASS
JAG1	20	10637684	10673999	-0.172056771	suppress_segment_too_large
JAG2	14	105140981	105168824	-0.155273506	suppress_segment_too_large
JAGN1	3	9890572	9894349	0.06149513	PASS
JAK1	1	64833229	64966504	0.052232535	PASS
JAK2	9	4984390	5128183	0.073960965	PASS
JAK3	19	17824780	17848071	-0.069222905	PASS
JAKMIP1	4	6026203	6200591	-0.358623662	PASS
JAKMIP2	5	147585439	147782848	-0.393084436	PASS
JAKMIP3	10	132104671	132184809	0.073090211	PASS
JAM2	21	25639272	25717562	0.209983559	PASS
JAM3	11	134068925	134152001	0.105032849	PASS
JAML	11	118193740	118225094	-0.431650509	PASS
JARID2	6	15246296	15522040	0.069043418	PASS
JAZF1	7	27830573	28180743	-0.72421718	PASS
JCAD	10	30012800	30115494	0.075711544	PASS
JCHAIN	4	70655541	70681817	0.115781418	suppress_segment_too_large
JDP2	14	75427716	75474111	-0.155273506	suppress_segment_too_large
JHY	11	122882528	122959798	-0.431650509	PASS
JKAMP	14	59484443	59505410	0.053252507	PASS
JMJD1C	10	63167221	63521850	0.032351597	PASS
JMJD4	1	227730425	227735411	-0.204996646	suppress_segment_too_large
JMJD6	17	76712832	76726799	0.051798665	PASS
JMJD7	15	41828085	41837581	-0.423772929	PASS
JMJD7-PL	15	41828095	41848155	-0.423772929	PASS
JMJD8	16	681671	684528	0.053595371	PASS
JMY	5	79236189	79327215	-0.393084436	PASS
JOSD1	22	38685543	38701556	-0.740245994	PASS
JOSD2	19	50505998	50511353	0.002743503	PASS
JPH1	8	74234700	74321328	0.182873287	suppress_segment_too_large
JPH2	20	44111695	44187578	-0.172056771	suppress_segment_too_large
JPH3	16	87601835	87698156	-0.423061015	PASS
JPH4	14	23568035	23578800	0.053252507	PASS
JPT1	17	75135248	75168281	0.051798665	PASS
JPT2	16	1678256	1702280	0.053595371	PASS
JRK	8	142657460	142681968	0.699132336	PASS
JRKL	11	96389989	96507574	0.32805343	suppress_segment_too_large

JSRP1	19	2252252	2269759	-0.071973357	PASS
JTB	1	153974269	153977688	0.088103245	PASS
JUN	1	58780788	58784327	-0.736943052	PASS
JUNB	19	12791496	12793315	-0.069222905	PASS
JUND	19	18279760	18281622	-0.069222905	PASS
JUP	17	41754604	41786931	0.041294512	PASS
KAAG1	6	24356903	24358284	0.069043418	PASS
KALRN	3	124080023	124726325	0.06434429	PASS
KANK1	9	470291	746106	0.073960965	PASS
KANK2	19	11164267	11197791	-0.107594294	PASS
KANK3	19	8322584	8343262	-0.071973357	PASS
KANK4	1	62236979	62319414	0.052232535	PASS
KANSL1	17	46029916	46225389	0.051798665	PASS
KANSL1L	2	210021423	210171383	0.011001208	PASS
KANSL2	12	48653401	48682238	-0.743220499	PASS
KANSL3	2	96593170	96642787	0.064122364	PASS
KANTR	23	53094145	53170914	0.158844052	PASS
KARS	16	75627474	75648643	-0.423061015	PASS
KAT14	20	18138118	18188387	-0.172056771	suppress_segment_too_large
KAT2A	17	42113108	42121358	0.041294512	PASS
KAT2B	3	20040023	20154404	0.06149513	PASS
KAT5	11	65711996	65719604	0.064535884	PASS
KAT6A	8	41929479	42052026	0.182873287	suppress_segment_too_large
KAT6B	10	74824927	75032624	0.032351597	PASS
KAT7	17	49788555	49835030	0.051798665	PASS
KAT8	16	31115754	31131393	0.053595371	PASS
KATNA1	6	149594873	149648972	0.033894706	PASS
KATNAL1	13	30202630	30307484	-0.398748891	PASS
KATNAL2	18	46917492	47102243	-0.330515409	PASS
KATNB1	16	57735730	57757250	-0.423061015	PASS
KATNBL1	15	34140674	34210096	-0.423772929	PASS
KAZALD1	10	101061841	101068131	-0.414937136	PASS
KAZN	1	13892792	15118043	0.048749694	PASS
KBTBD11	8	1973878	2006936	-0.311940419	PASS
KBTBD11	8	1763888	1958627	-0.311940419	PASS
KBTBD12	3	127915232	127987671	0.06434429	PASS
KBTBD13	15	65076816	65079939	-0.759380635	PASS
KBTBD2	7	32868172	32894131	-0.72421718	PASS
KBTBD3	11	106051098	106077765	0.32805343	suppress_segment_too_large
KBTBD4	11	47572197	47579015	0.059795455	PASS
KBTBD6	13	41127569	41132746	-0.398748891	PASS
KBTBD7	13	41189833	41194566	-0.398748891	PASS
KBTBD8	3	66998307	67011210	-0.727808231	PASS
KCMF1	2	84971093	85059472	0.064122364	PASS
KCNA1	12	4909905	4918256	-0.015029783	PASS
KCNA10	1	110517217	110519175	0.079255572	PASS
KCNA2	1	110519837	110631474	0.079255572	PASS
KCNA3	1	110672465	110675033	0.079255572	PASS
KCNA4	11	30009741	30017023	-0.359426047	PASS
KCNA5	12	5043989	5046788	-0.015029783	PASS
KCNA6	12	4809176	4813412	-0.015029783	PASS
KCNA7	19	49067418	49072941	0.002743503	PASS
KCNAB1	3	156037701	156539138	0.02267528	PASS
KCNAB2	1	5991466	6101193	0.364796772	PASS

KCNAB3	17	7921859	7929803	0.06854245	PASS
KCNB1	20	49293394	49484297	-0.172056771	suppress_segment_too_large
KCNB2	8	72537391	72938349	0.182873287	suppress_segment_too_large
KCNC1	11	17734774	17856804	-0.39835217	PASS
KCNC2	12	75040077	75209868	0.271127429	suppress_segment_too_large
KCNC3	19	50311937	50333515	0.002743503	PASS
KCNC4	1	110211343	110283100	0.079255572	PASS
KCND1	23	48961378	48971569	0.158844052	PASS
KCND2	7	120273668	120750331	-0.712149877	PASS
KCND3	1	111770662	111989155	0.079255572	PASS
KCNE1	21	34446688	34512275	0.209983559	PASS
KCNE1B	21	7816675	7829926	0.220071762	PASS
KCNE2	21	34364024	34371389	0.209983559	PASS
KCNE3	11	74454841	74467729	0.064535884	PASS
KCNE4	2	223051814	223198399	0.011001208	PASS
KCNE5	23	109623700	109625172	0.158844052	PASS
KCNF1	2	10911937	10914225	0.034263343	PASS
KCNG1	20	51003656	51023129	-0.172056771	suppress_segment_too_large
KCNG2	18	79863668	79900184	-0.330515409	PASS
KCNG3	2	42442017	42494097	0.034263343	PASS
KCNG4	16	84218667	84239750	-0.423061015	PASS
KCNH1	1	210676823	211134180	-0.204996646	suppress_segment_too_large
KCNH2	7	150944961	150978315	-0.712149877	PASS
KCNH3	12	49539157	49558308	-0.743220499	PASS
KCNH4	17	42156891	42181278	0.041294512	PASS
KCNH5	14	62699454	63102037	0.053252507	PASS
KCNH6	17	63523334	63548977	0.051798665	PASS
KCNH7	2	162371407	162838730	0.319987345	PASS
KCNH8	3	19148454	19535646	0.06149513	PASS
KCNIP1	5	170353487	170736632	0.165341871	suppress_segment_too_large
KCNIP2	10	101825974	101843920	-0.414937136	PASS
KCNIP3	2	95297304	95386083	0.064122364	PASS
KCNIP4	4	20728616	21948799	-0.358623662	PASS
KCNJ1	11	128836315	128867373	-0.431650509	PASS
KCNJ10	1	159998651	160070483	0.088103245	PASS
KCNJ11	11	17385859	17389331	-0.39835217	PASS
KCNJ12	17	21376197	21419872	0.041294512	PASS
KCNJ13	2	232766464	232776568	0.011001208	PASS
KCNJ14	19	48455509	48466980	0.002743503	PASS
KCNJ15	21	38155549	38307357	0.209983559	PASS
KCNJ16	17	70053429	70135608	0.051798665	PASS
KCNJ18	17	21692523	21704612	0.041294512	PASS
KCNJ2	17	70168673	70180048	0.051798665	PASS
KCNJ3	2	154698299	154858352	-0.30549516	PASS
KCNJ4	22	38426327	38455199	-0.740245994	PASS
KCNJ5	11	128891356	128921035	-0.431650509	PASS
KCNJ6	21	37607376	38121345	0.209983559	PASS
KCNJ8	12	21764955	21775581	0.49032213	suppress_segment_too_large
KCNJ9	1	160081570	160090563	0.088103245	PASS
KCNK1	1	233614004	233672512	-0.204996646	suppress_segment_too_large
KCNK10	14	88180103	88326907	-0.155273506	suppress_segment_too_large
KCNK12	2	47516581	47570939	0.034263343	PASS
KCNK13	14	90061765	90185857	-0.155273506	suppress_segment_too_large
KCNK15	20	44745780	44752313	-0.172056771	suppress_segment_too_large

KCNK16	6	39314698	39322968	0.028532667	PASS
KCNK17	6	39299001	39314553	0.028532667	PASS
KCNK18	10	117197489	117210299	0.073090211	PASS
KCNK2	1	215005775	215237093	-0.204996646	suppress_segment_too_large
KCNK3	2	26692690	26733420	0.034263343	PASS
KCNK4	11	64291302	64300031	0.064535884	PASS
KCNK5	6	39188973	39229450	0.028532667	PASS
KCNK6	19	38319844	38332076	0.048917043	PASS
KCNK7	11	65592855	65595996	0.064535884	PASS
KCNK9	8	139600838	139704109	0.493344802	suppress_segment_too_large
KCNMA1	10	76869601	77638369	0.032351597	PASS
KCNMB1	5	170374671	170389677	0.165341871	suppress_segment_too_large
KCNMB2	3	178272932	178844429	0.02267528	PASS
KCNMB3	3	179236691	179267002	0.02267528	PASS
KCNMB4	12	70366276	70434292	-0.578548701	PASS
KCNN1	19	17951293	18000080	-0.069222905	PASS
KCNN2	5	114055545	114496500	-0.393084436	PASS
KCNN3	1	154697455	154870280	0.088103245	PASS
KCNN4	19	43766533	43781261	0.048917043	PASS
KCNQ1	11	2444684	2849110	-0.39835217	PASS
KCNQ2	20	63400210	63472677	-0.172056771	suppress_segment_too_large
KCNQ3	8	132120858	132481019	0.493344802	suppress_segment_too_large
KCNQ4	1	40783814	40840452	0.048749694	PASS
KCNQ5	6	72621792	73198851	-0.250122709	PASS
KCNRG	13	50015254	50020922	-0.384313056	PASS
KCNS1	20	45092310	45101112	-0.172056771	suppress_segment_too_large
KCNS2	8	98427022	98432848	0.355469066	suppress_segment_too_large
KCNS3	2	17877847	18361616	0.034263343	PASS
KCNT1	9	135702185	135795508	0.073960965	PASS
KCNT2	1	196225779	196609225	0.088103245	PASS
KCNU1	8	36784324	36936128	0.182873287	suppress_segment_too_large
KCNV1	8	109963645	109975847	0.70944438	suppress_segment_too_large
KCNV2	9	2717502	2730037	0.073960965	PASS
KCP	7	128862451	128910719	-0.712149877	PASS
KCTD1	18	26454910	26657401	-0.330515409	PASS
KCTD10	12	109448656	109477544	0.028722739	PASS
KCTD11	17	7351889	7354944	0.06854245	PASS
KCTD12	13	76880166	76886390	-0.384313056	PASS
KCTD13	16	29905012	29927035	0.053595371	PASS
KCTD14	11	78015715	78046191	0.064535884	PASS
KCTD15	19	33795933	33815763	0.044838622	PASS
KCTD16	5	144170832	144485686	-0.393084436	PASS
KCTD17	22	37051736	37063390	-0.740245994	PASS
KCTD18	2	200488952	200519784	0.011001208	PASS
KCTD19	16	67289428	67326763	-0.423061015	PASS
KCTD2	17	75032575	75065889	0.051798665	PASS
KCTD20	6	36442767	36491143	0.028532667	PASS
KCTD21	11	78171249	78188822	0.064535884	PASS
KCTD3	1	215567392	215621807	-0.204996646	suppress_segment_too_large
KCTD4	13	45192853	45194717	-0.398748891	PASS
KCTD5	16	2682475	2709030	0.053595371	PASS
KCTD6	3	58492114	58502360	-0.727808231	PASS
KCTD7	7	66628767	66649067	-0.701511252	PASS
KCTD8	4	44173909	44448807	-0.317525751	PASS

KCTD9	8	25427847	25458476	-0.311940419	PASS
KDELC1	13	102784281	102799007	-0.426822582	PASS
KDELC2	11	108472105	108498432	-0.431650509	PASS
KDELR1	19	48382570	48391553	0.002743503	PASS
KDELR2	7	6445953	6484242	-0.72421718	PASS
KDELR3	22	38468062	38483447	-0.740245994	PASS
KDF1	1	26949562	26960406	0.048749694	PASS
KDM1A	1	23019443	23083689	0.048749694	PASS
KDM1B	6	18155329	18223853	0.069043418	PASS
KDM2A	11	67119269	67258087	0.064535884	PASS
KDM2B	12	121429097	121581015	0.028722739	PASS
KDM3A	2	86440647	86492716	0.064122364	PASS
KDM3B	5	138352596	138437028	-0.393084436	PASS
KDM4A	1	43650158	43705515	-0.736943052	PASS
KDM4B	19	4969113	5153595	-0.071973357	PASS
KDM4C	9	6720863	7175648	0.073960965	PASS
KDM4D	11	94973681	94999518	0.064535884	PASS
KDM4E	11	95025258	95027596	0.064535884	PASS
KDM4F	11	95049422	95051338	0.32805343	suppress_segment_too_large
KDM5A	12	280129	389454	-0.015029783	PASS
KDM5B	1	202724495	202809470	-0.204996646	suppress_segment_too_large
KDM5C	23	53191321	53225422	0.158844052	PASS
KDM6A	23	44873177	45112602	0.158844052	PASS
KDM6B	17	7839904	7854796	0.06854245	PASS
KDM7A	7	140084746	140177035	-0.712149877	PASS
KDM8	16	27203495	27221768	0.053595371	PASS
KDR	4	55078259	55125595	0.115781418	suppress_segment_too_large
KDSR	18	63327726	63367510	-0.330515409	PASS
KEAP1	19	10486120	10503741	-0.107594294	PASS
KEL	7	142941114	142962681	-0.712149877	PASS
KERA	12	91050491	91057983	0.271127429	suppress_segment_too_large
KHDC1	6	73241314	73310365	-0.250122709	PASS
KHDC1L	6	73223544	73225770	-0.250122709	PASS
KHDC3L	6	73362677	73364171	-0.250122709	PASS
KHDC4	1	155913043	155934400	0.088103245	PASS
KHDRBS1	1	32013829	32060850	0.048749694	PASS
KHDRBS2	6	61679960	62286227	0.239805577	suppress_segment_too_large
KHDRBS3	8	135457457	135656722	0.493344802	suppress_segment_too_large
KHK	2	27086747	27100772	0.034263343	PASS
KHNYN	14	24429286	24441834	0.053252507	PASS
KHSRP	19	6413348	6424794	-0.071973357	PASS
KIAA0040	1	175156987	175192999	0.088103245	PASS
KIAA0100	17	28614440	28645454	0.041294512	PASS
KIAA0232	4	6781375	6884170	-0.358623662	PASS
KIAA0319	6	24544104	24646155	0.069043418	PASS
KIAA0319	1	35433490	35557950	0.048749694	PASS
KIAA0355	19	34254537	34355586	0.044838622	PASS
KIAA0391	14	35121846	35277614	0.053252507	PASS
KIAA0408	6	127440343	127459391	-0.304168115	PASS
KIAA0513	16	85027751	85094230	-0.423061015	PASS
KIAA0556	16	27550133	27780369	0.053595371	PASS
KIAA0586	14	58427385	58551289	0.053252507	PASS
KIAA0753	17	6578148	6640927	0.06854245	PASS
KIAA0825	5	94152966	94618597	-0.393084436	PASS

KIAA0895	7	36324221	36390125	-0.72421718	PASS
KIAA0895	16	67175602	67184040	-0.423061015	PASS
KIAA0930	22	45190338	45240769	-0.953096644	PASS
KIAA1024	15	79432516	79472290	-0.759380635	PASS
KIAA1024	5	129748079	129766732	-0.393084436	PASS
KIAA1109	4	122152333	122362758	0.142431244	suppress_segment_too_large
KIAA1143	3	44737661	44761662	-0.727808231	PASS
KIAA1147	7	141656728	141702153	-0.712149877	PASS
KIAA1191	5	176346061	176361968	0.165341871	suppress_segment_too_large
KIAA1210	23	119078635	119150579	0.158844052	PASS
KIAA1211	4	56049073	56328625	0.115781418	suppress_segment_too_large
KIAA1211	2	98793846	98936259	0.064122364	PASS
KIAA1217	10	23694746	24547848	0.075711544	PASS
KIAA1257	3	128909866	129002690	0.06434429	PASS
KIAA1324	1	109113679	109206781	0.079255572	PASS
KIAA1324	7	86876906	87059699	-0.221864321	PASS
KIAA1328	18	36829106	37232172	-0.330515409	PASS
KIAA1522	1	32741885	32774970	0.048749694	PASS
KIAA1549	7	138831381	138981318	-0.712149877	PASS
KIAA1549	11	33376466	33674102	-0.359426047	PASS
KIAA1551	12	31959370	31993107	0.49032213	suppress_segment_too_large
KIAA1586	6	57046532	57055239	0.239805577	suppress_segment_too_large
KIAA1614	1	180913154	180951614	0.088103245	PASS
KIAA1671	22	24952730	25197448	-0.740245994	PASS
KIAA1755	20	38210488	38260772	-0.172056771	suppress_segment_too_large
KIAA1841	2	61065871	61138034	-0.46122572	PASS
KIAA1958	9	112486847	112669397	0.073960965	PASS
KIAA2012	2	202073289	202205203	0.011001208	PASS
KIAA2013	1	11919591	11926428	0.364796772	PASS
KIAA2026	9	5881596	6007901	0.073960965	PASS
KIDINS22(	2	8721081	8837630	0.034263343	PASS
KIF11	10	92593286	92655395	-0.414937136	PASS
KIF12	9	114086126	114099291	0.073960965	PASS
KIF13A	6	17759183	17987623	0.069043418	PASS
KIF13B	8	29067279	29263124	-0.311940419	PASS
KIF14	1	200551497	200620734	-0.204996646	suppress_segment_too_large
KIF15	3	44761717	44873376	-0.727808231	PASS
KIF16B	20	16272104	16573434	-0.172056771	suppress_segment_too_large
KIF17	1	20664014	20718017	0.048749694	PASS
KIF18A	11	28020620	28108308	-0.359426047	PASS
KIF18B	17	44924709	44947711	0.051798665	PASS
KIF19	17	74326210	74355820	0.051798665	PASS
KIF1A	2	240713761	240821036	0.011001208	PASS
KIF1B	1	10210805	10381603	0.364796772	PASS
KIF1BP	10	68988721	69043544	0.032351597	PASS
KIF1C	17	4997948	5028401	0.06854245	PASS
KIF20A	5	138178719	138187715	-0.393084436	PASS
KIF20B	10	89701610	89774939	-0.414937136	PASS
KIF21A	12	39293228	39443390	-0.46813528	PASS
KIF21B	1	200969390	201023700	-0.204996646	suppress_segment_too_large
KIF22	16	29790719	29805385	0.053595371	PASS
KIF23	15	69414246	69448427	-0.759380635	PASS
KIF24	9	34252381	34311371	0.073960965	PASS
KIF25	6	167996241	168045089	0.033894706	PASS

KIF26A	14	104138723	104180894	-0.155273506	suppress_segment_too_large
KIF26B	1	245154985	245709431	-0.145670469	suppress_likely_unfocal_large_gain
KIF27	9	83836698	83921465	0.073960965	PASS
KIF2A	5	62306162	62537249	0.07724032	PASS
KIF2B	17	53822901	53825213	0.051798665	PASS
KIF2C	1	44739818	44767767	-0.736943052	PASS
KIF3A	5	132692628	132737638	-0.393084436	PASS
KIF3B	20	32277664	32335011	-0.172056771	suppress_segment_too_large
KIF3C	2	25926596	25982749	0.034263343	PASS
KIF4A	23	70290090	70420832	0.158844052	PASS
KIF4B	5	155013755	155018132	-0.393084436	PASS
KIF5A	12	57549998	57586632	-0.743220499	PASS
KIF5B	10	32009010	32056431	0.075711544	PASS
KIF5C	2	148875250	149026759	-0.30549516	PASS
KIF6	6	39329990	39725405	0.028532667	PASS
KIF7	15	89608789	89655451	-0.759380635	PASS
KIF9	3	47228026	47283451	-0.727808231	PASS
KIFAP3	1	169921326	170085208	0.088103245	PASS
KIFC1	6	33391536	33409924	0.028532667	PASS
KIFC2	8	144466043	144474202	0.699132336	PASS
KIFC3	16	57758217	57863053	-0.423061015	PASS
KIN	10	7750962	7787981	0.075711544	PASS
KIR2DL1	19	54769811	54784322	0.142581352	PASS
KIR2DL3	19	54738515	54753052	0.142581352	PASS
KIR2DL4	19	54803535	54814517	0.142581352	PASS
KIR3DL1	19	54816468	54830778	0.142581352	PASS
KIR3DL2	19	54850443	54867207	0.142581352	PASS
KIR3DL3	19	54724479	54736536	0.142581352	PASS
KIRREL1	1	157993273	158100262	0.088103245	PASS
KIRREL2	19	35855861	35867109	0.044838622	PASS
KIRREL3	11	126423359	127003460	-0.431650509	PASS
KISS1	1	204190341	204196486	-0.204996646	suppress_segment_too_large
KISS1R	19	917287	921015	-0.071973357	PASS
KIT	4	54657918	54740715	0.115781418	suppress_segment_too_large
KITLG	12	88492793	88580851	0.271127429	suppress_segment_too_large
KIZ	20	21125983	21246622	-0.172056771	suppress_segment_too_large
KL	13	33016433	33066145	-0.398748891	PASS
KLB	4	39406853	39451536	-0.753159364	PASS
KLC1	14	103561896	103714249	-0.155273506	suppress_segment_too_large
KLC2	11	66257294	66267860	0.064535884	PASS
KLC3	19	45333434	45351520	0.002743503	PASS
KLC4	6	43040777	43075099	0.028532667	PASS
KLF1	19	12884422	12887199	-0.069222905	PASS
KLF10	8	102648779	102655902	0.355469066	suppress_segment_too_large
KLF11	2	10042849	10054836	0.034263343	PASS
KLF12	13	73686089	73995056	-0.384313056	PASS
KLF13	15	31326855	31435665	-0.423772929	PASS
KLF14	7	130731235	130734176	-0.712149877	PASS
KLF15	3	126342635	126357442	0.06434429	PASS
KLF16	19	1852399	1863568	-0.071973357	PASS
KLF17	1	44118850	44135140	-0.736943052	PASS
KLF18	1	44137821	44141631	-0.736943052	PASS
KLF2	19	16324817	16327874	-0.069222905	PASS
KLF3	4	38664196	38701042	-0.753159364	PASS

KLF4	9	107484852	107490482	0.073960965	PASS
KLF5	13	73054976	73077542	-0.384313056	PASS
KLF6	10	3775996	3785281	0.075711544	PASS
KLF7	2	207074137	207167267	0.011001208	PASS
KLF8	23	56232421	56287889	0.158844052	PASS
KLF9	9	70384597	70414624	0.073960965	PASS
KLHDC1	14	49693105	49753152	0.053252507	PASS
KLHDC10	7	130070510	130135720	-0.712149877	PASS
KLHDC2	14	49767608	49786385	0.053252507	PASS
KLHDC3	6	43014103	43021298	0.028532667	PASS
KLHDC4	16	87696485	87765992	-0.423061015	PASS
KLHDC7A	1	18480982	18486126	0.048749694	PASS
KLHDC7B	22	50545891	50551023	-0.953096644	PASS
KLHDC8A	1	205336065	205357090	-0.204996646	suppress_segment_too_large
KLHDC8B	3	49171611	49176486	-0.727808231	PASS
KLHDC9	1	161098361	161100346	0.088103245	PASS
KLHL1	13	69700594	70108493	-0.384313056	PASS
KLHL10	17	41835685	41848384	0.041294512	PASS
KLHL11	17	41853545	41865431	0.041294512	PASS
KLHL12	1	202891100	202928636	-0.204996646	suppress_segment_too_large
KLHL13	23	117897813	118117340	0.158844052	PASS
KLHL14	18	32672671	32773062	-0.330515409	PASS
KLHL15	23	23983720	24027186	0.158844052	PASS
KLHL17	1	960587	965715	-0.358281697	PASS
KLHL18	3	47282917	47346816	-0.727808231	PASS
KLHL2	4	165207618	165323156	0.142431244	suppress_segment_too_large
KLHL20	1	173714941	173786702	0.088103245	PASS
KLHL21	1	6590724	6614607	0.364796772	PASS
KLHL22	22	20441519	20495883	-0.740245994	PASS
KLHL23	2	169694488	169776989	0.033541467	PASS
KLHL24	3	183635568	183684477	0.02267528	PASS
KLHL25	15	85759323	85795030	-0.759380635	PASS
KLHL26	19	18636965	18671714	-0.069222905	PASS
KLHL28	14	44924319	45042322	0.053252507	PASS
KLHL29	2	23385217	23708611	0.034263343	PASS
KLHL3	5	137617500	137736090	-0.393084436	PASS
KLHL30	2	238138722	238152947	0.011001208	PASS
KLHL31	6	53647901	53665708	0.239805577	suppress_segment_too_large
KLHL32	6	96924620	97140754	-0.355603029	PASS
KLHL33	14	20425852	20436158	0.053252507	PASS
KLHL34	23	21654690	21658330	0.158844052	PASS
KLHL35	11	75422394	75430629	0.064535884	PASS
KLHL36	16	84648525	84667686	-0.423061015	PASS
KLHL38	8	123645527	123652950	0.493344802	suppress_segment_too_large
KLHL4	23	87517749	87670050	0.158844052	PASS
KLHL40	3	42685519	42692544	-0.727808231	PASS
KLHL41	2	169509702	169526262	0.033541467	PASS
KLHL42	12	27780020	27803040	0.49032213	suppress_segment_too_large
KLHL5	4	39045039	39126857	-0.753159364	PASS
KLHL6	3	183487531	183555689	0.02267528	PASS
KLHL7	7	23105758	23177914	-0.72421718	PASS
KLHL8	4	87160103	87240314	-0.677982248	PASS
KLHL9	9	21329671	21335380	0.073960965	PASS
KLK1	19	50819148	50823787	0.002743503	PASS

KLK10	19	51012739	51020175	0.002743503	PASS
KLK11	19	51022216	51028039	0.002743503	PASS
KLK12	19	51029092	51035230	0.002743503	PASS
KLK13	19	51056206	51065114	0.002743503	PASS
KLK14	19	51077495	51084245	0.002743503	PASS
KLK15	19	50825289	50837213	0.002743503	PASS
KLK2	19	50861568	50880567	0.002743503	PASS
KLK3	19	50854915	50860764	0.002743503	PASS
KLK4	19	50906352	50910738	0.002743503	PASS
KLK5	19	50943303	50953093	0.002743503	PASS
KLK6	19	50958631	50969673	0.002743503	PASS
KLK7	19	50976482	50984099	0.002743503	PASS
KLK8	19	50996007	51002711	0.002743503	PASS
KLK9	19	51003111	51009634	0.002743503	PASS
KLKB1	4	186208979	186258471	0.275137421	PASS
KLLN	10	87859161	87863437	-2.417109027	suppress_large_homdel
KLRB1	12	9594551	9607886	0.505438545	PASS
KLRC1	12	10442264	10454685	0.505438545	PASS
KLRC2	12	10426854	10442300	0.505438545	PASS
KLRC3	12	10412312	10420595	0.505438545	PASS
KLRC4	12	10407382	10409757	0.505438545	PASS
KLRC4-KI	12	10372353	10410146	0.505438545	PASS
KLRD1	12	10226058	10329600	0.505438545	PASS
KLRF1	12	9827481	9845007	0.505438545	PASS
KLRF2	12	9881489	9895833	0.505438545	PASS
KLRG1	12	8950044	9010760	0.505438545	PASS
KLRG2	7	139452690	139483712	-0.712149877	PASS
KLRK1	12	10372353	10391874	0.505438545	PASS
KMO	1	241532134	241595642	-0.287484925	PASS
KMT2A	11	118436464	118526832	-0.431650509	PASS
KMT2B	19	35718019	35738878	0.044838622	PASS
KMT2C	7	152134922	152436005	-0.712149877	PASS
KMT2D	12	49018975	49059774	-0.743220499	PASS
KMT2E	7	105014179	105114361	-0.712149877	PASS
KMT5A	12	123383773	123409358	0.028722739	PASS
KMT5B	11	68154863	68213828	0.064535884	PASS
KMT5C	19	55339853	55348120	0.142581352	PASS
KNCN	1	46545644	46551527	-0.736943052	PASS
KNDC1	10	133160447	133226412	0.073090211	PASS
KNG1	3	186717276	186744410	0.02267528	PASS
KNL1	15	40594020	40664342	-0.423772929	PASS
KNOP1	16	19701934	19718235	0.053595371	PASS
KNSTRN	15	40382721	40394246	-0.423772929	PASS
KNTC1	12	122527246	122626396	0.028722739	PASS
KPNA1	3	122421949	122514945	0.06434429	PASS
KPNA2	17	68035519	68046842	0.051798665	PASS
KPNA3	13	49699307	49792921	-0.384313056	PASS
KPNA4	3	160494995	160565588	0.02267528	PASS
KPNA5	6	116681187	116741866	-0.355603029	PASS
KPNA6	1	32108038	32176568	0.048749694	PASS
KPNA7	7	99173574	99207506	-0.710463272	PASS
KPNB1	17	47649476	47685505	0.051798665	PASS
KPRP	1	152759561	152762052	0.088103245	PASS
KPTN	19	47475144	47484268	0.002743503	PASS

KRAS	12	25204789	25250936	0.49032213	suppress_segment_too_large
KRBA1	7	149714781	149734575	-0.712149877	PASS
KRBA2	17	8356902	8376711	0.06854245	PASS
KRBOX1	3	42809483	42942792	-0.727808231	PASS
KRBOX4	23	46446857	46497422	0.158844052	PASS
KRCC1	2	88027205	88055729	0.064122364	PASS
KREMEN1	22	29073078	29168333	-0.740245994	PASS
KREMEN2	16	2963944	2968383	0.053595371	PASS
KRI1	19	10553078	10566037	-0.107594294	PASS
KRIT1	7	92198969	92246166	-0.710463272	PASS
KRR1	12	75490861	75511636	0.271127429	suppress_segment_too_large
KRT1	12	52674736	52680407	-0.743220499	PASS
KRT10	17	40818117	40822595	0.041294512	PASS
KRT12	17	40860943	40867224	0.041294512	PASS
KRT13	17	41500981	41505705	0.041294512	PASS
KRT14	17	41582279	41586921	0.041294512	PASS
KRT15	17	41513743	41522529	0.041294512	PASS
KRT16	17	41609778	41615899	0.041294512	PASS
KRT17	17	41619441	41624842	0.041294512	PASS
KRT18	12	52948871	52952901	-0.743220499	PASS
KRT19	17	41523617	41528308	0.041294512	PASS
KRT2	12	52644558	52652164	-0.743220499	PASS
KRT20	17	40875941	40885227	0.041294512	PASS
KRT222	17	40654665	40665181	0.041294512	PASS
KRT23	17	40922696	40937634	0.041294512	PASS
KRT24	17	40697991	40703750	0.041294512	PASS
KRT25	17	40748021	40755332	0.041294512	PASS
KRT26	17	40766238	40772162	0.041294512	PASS
KRT27	17	40776808	40782534	0.041294512	PASS
KRT28	17	40792203	40799959	0.041294512	PASS
KRT3	12	52789685	52796117	-0.743220499	PASS
KRT31	17	41393724	41397592	0.041294512	PASS
KRT32	17	41459811	41467429	0.041294512	PASS
KRT33A	17	41346092	41350812	0.041294512	PASS
KRT33B	17	41363494	41369800	0.041294512	PASS
KRT34	17	41377650	41382403	0.041294512	PASS
KRT35	17	41476689	41481140	0.041294512	PASS
KRT36	17	41486136	41492546	0.041294512	PASS
KRT37	17	41420753	41424523	0.041294512	PASS
KRT38	17	41436446	41440921	0.041294512	PASS
KRT39	17	40958417	40966892	0.041294512	PASS
KRT4	12	52806549	52814551	-0.743220499	PASS
KRT40	17	40977716	40987135	0.041294512	PASS
KRT5	12	52514575	52520687	-0.743220499	PASS
KRT6A	12	52487174	52493257	-0.743220499	PASS
KRT6B	12	52446651	52452126	-0.743220499	PASS
KRT6C	12	52468516	52473785	-0.743220499	PASS
KRT7	12	52232520	52252186	-0.743220499	PASS
KRT71	12	52543909	52553147	-0.743220499	PASS
KRT72	12	52585589	52601538	-0.743220499	PASS
KRT73	12	52607570	52618559	-0.743220499	PASS
KRT74	12	52565782	52573825	-0.743220499	PASS
KRT75	12	52424070	52434525	-0.743220499	PASS
KRT76	12	52768155	52777345	-0.743220499	PASS

KRT77	12	52689626	52703463	-0.743220499	PASS
KRT78	12	52837804	52849092	-0.743220499	PASS
KRT79	12	52821410	52834295	-0.743220499	PASS
KRT8	12	52897187	52949954	-0.743220499	PASS
KRT80	12	52168996	52192000	-0.743220499	PASS
KRT81	12	52285913	52291534	-0.743220499	PASS
KRT82	12	52393931	52406355	-0.743220499	PASS
KRT83	12	52314301	52321398	-0.743220499	PASS
KRT84	12	52377812	52385652	-0.743220499	PASS
KRT85	12	52360006	52367481	-0.743220499	PASS
KRT86	12	52249300	52309163	-0.743220499	PASS
KRT9	17	41565841	41572058	0.041294512	PASS
KRTAP1-1	17	41040559	41041461	0.041294512	PASS
KRTAP1-3	17	41033884	41034855	0.041294512	PASS
KRTAP1-4	17	41029697	41030104	0.041294512	PASS
KRTAP1-5	17	41026026	41027202	0.041294512	PASS
KRTAP10-	21	44538981	44540195	0.209983559	PASS
KRTAP10-	21	44637356	44638455	0.209983559	PASS
KRTAP10-	21	44646414	44647650	0.209983559	PASS
KRTAP10-	21	44697172	44698044	0.209983559	PASS
KRTAP10-	21	44550357	44551505	0.209983559	PASS
KRTAP10-	21	44557790	44558760	0.209983559	PASS
KRTAP10-	21	44573724	44638284	0.209983559	PASS
KRTAP10-	21	44579455	44580604	0.209983559	PASS
KRTAP10-	21	44591268	44592505	0.209983559	PASS
KRTAP10-	21	44600597	44602174	0.209983559	PASS
KRTAP10-	21	44612079	44612954	0.209983559	PASS
KRTAP10-	21	44627123	44628293	0.209983559	PASS
KRTAP11-	21	30880644	30881555	0.209983559	PASS
KRTAP12-	21	44681576	44682163	0.209983559	PASS
KRTAP12-	21	44666189	44666927	0.209983559	PASS
KRTAP12-	21	44657932	44658341	0.209983559	PASS
KRTAP12-	21	44654213	44654659	0.209983559	PASS
KRTAP13-	21	30396074	30396822	0.209983559	PASS
KRTAP13-	21	30371391	30372257	0.209983559	PASS
KRTAP13-	21	30425265	30425968	0.209983559	PASS
KRTAP13-	21	30430230	30431026	0.209983559	PASS
KRTAP15-	21	30440275	30440945	0.209983559	PASS
KRTAP16-	17	41307700	41309253	0.041294512	PASS
KRTAP17-	17	41314917	41315695	0.041294512	PASS
KRTAP19-	21	30479699	30480344	0.209983559	PASS
KRTAP19-	21	30487057	30487436	0.209983559	PASS
KRTAP19-	21	30491464	30491985	0.209983559	PASS
KRTAP19-	21	30496824	30497133	0.209983559	PASS
KRTAP19-	21	30501657	30502117	0.209983559	PASS
KRTAP19-	21	30541535	30541864	0.209983559	PASS
KRTAP19-	21	30560875	30561314	0.209983559	PASS
KRTAP19-	21	31038159	31038476	0.209983559	PASS
KRTAP2-1	17	41046541	41047316	0.041294512	PASS
KRTAP2-2	17	41054498	41055230	0.041294512	PASS
KRTAP2-3	17	41059240	41060114	0.041294512	PASS
KRTAP2-4	17	41065116	41065879	0.041294512	PASS
KRTAP20-	21	30616425	30616699	0.209983559	PASS
KRTAP20-	21	30635236	30635619	0.209983559	PASS

KRTAP20-	21	30642864	30643136	0.209983559	PASS
KRTAP20-	21	30620627	30620850	0.209983559	PASS
KRTAP21-	21	30754830	30755428	0.209983559	PASS
KRTAP21-	21	30746794	30747233	0.209983559	PASS
KRTAP21-	21	30718525	30718777	0.209983559	PASS
KRTAP22-	21	30601087	30601382	0.209983559	PASS
KRTAP22-	21	30590105	30590397	0.209983559	PASS
KRTAP24-	21	30281309	30282958	0.209983559	PASS
KRTAP25-	21	30289145	30289514	0.209983559	PASS
KRTAP26-	21	30319124	30320316	0.209983559	PASS
KRTAP27-	21	30337013	30337694	0.209983559	PASS
KRTAP29-	17	41301826	41302851	0.041294512	PASS
KRTAP3-1	17	41008521	41019324	0.041294512	PASS
KRTAP3-2	17	40999193	40999894	0.041294512	PASS
KRTAP3-3	17	40993430	40994133	0.041294512	PASS
KRTAP4-1	17	41184102	41185342	0.041294512	PASS
KRTAP4-1	17	41117181	41118360	0.041294512	PASS
KRTAP4-1	17	41123091	41124167	0.041294512	PASS
KRTAP4-1	17	41101502	41102209	0.041294512	PASS
KRTAP4-2	17	41177446	41178208	0.041294512	PASS
KRTAP4-3	17	41167231	41168194	0.041294512	PASS
KRTAP4-4	17	41159651	41160731	0.041294512	PASS
KRTAP4-5	17	41148924	41149802	0.041294512	PASS
KRTAP4-6	17	41139433	41140487	0.041294512	PASS
KRTAP4-7	17	41084150	41085141	0.041294512	PASS
KRTAP4-8	17	41096981	41098141	0.041294512	PASS
KRTAP4-9	17	41105332	41106488	0.041294512	PASS
KRTAP5-1	11	1584342	1585283	-0.39835217	PASS
KRTAP5-1	11	71565563	71566738	0.064535884	PASS
KRTAP5-1	11	71579714	71603353	0.064535884	PASS
KRTAP5-2	11	1597177	1598294	-0.39835217	PASS
KRTAP5-3	11	1607565	1608463	-0.39835217	PASS
KRTAP5-4	11	1620958	1622138	-0.39835217	PASS
KRTAP5-5	11	1629775	1630707	-0.39835217	PASS
KRTAP5-6	11	1697195	1697755	-0.39835217	PASS
KRTAP5-7	11	71527267	71528674	0.064535884	PASS
KRTAP5-8	11	71538025	71539207	0.064535884	PASS
KRTAP5-9	11	71548418	71549553	0.064535884	PASS
KRTAP6-1	21	30613431	30613930	0.209983559	PASS
KRTAP6-2	21	30598590	30598902	0.209983559	PASS
KRTAP6-3	21	30592440	30593075	0.209983559	PASS
KRTAP7-1	21	30829039	30829759	0.209983559	PASS
KRTAP8-1	21	30812697	30813252	0.209983559	PASS
KRTAP9-1	17	41189887	41190639	0.041294512	PASS
KRTAP9-2	17	41226648	41227652	0.041294512	PASS
KRTAP9-3	17	41232463	41233454	0.041294512	PASS
KRTAP9-4	17	41249687	41250653	0.041294512	PASS
KRTAP9-6	17	41265339	41266641	0.041294512	PASS
KRTAP9-7	17	41275659	41276697	0.041294512	PASS
KRTAP9-8	17	41238045	41239004	0.041294512	PASS
KRTAP9-9	17	41255384	41256364	0.041294512	PASS
KRTCAP2	1	155169408	155173475	0.088103245	PASS
KRTCAP3	2	27442366	27446481	0.034263343	PASS
KRTDAP	19	35487324	35495558	0.044838622	PASS

KSR1	17	27456470	27626438	0.041294512	PASS
KSR2	12	117453012	117968983	0.028722739	PASS
KTI12	1	52032103	52033816	-0.736943052	PASS
KTN1	14	55559072	55701526	0.053252507	PASS
KXD1	19	18557762	18569387	-0.069222905	PASS
KY	3	134603138	134651636	0.06434429	PASS
KYAT1	9	128832942	128882494	0.073960965	PASS
KYAT3	1	88935773	88992953	0.079255572	PASS
KYNU	2	142877498	143055832	-0.30549516	PASS
L1CAM	23	153861514	153886174	0.158844052	PASS
L1TD1	1	62194831	62212328	0.052232535	PASS
L2HGDH	14	50237563	50312548	0.053252507	PASS
L34079.1	19	43554692	43593036	0.048917043	PASS
L3HYPDH	14	59460363	59484430	0.053252507	PASS
L3MBTL1	20	43489442	43550950	-0.172056771	suppress_segment_too_large
L3MBTL2	22	41205205	41231271	-0.740245994	PASS
L3MBTL3	6	130013699	130141451	-0.304168115	PASS
L3MBTL4	18	5954706	6415237	0.044197172	PASS
LACC1	13	43879284	43893932	-0.398748891	PASS
LACRT	12	54630811	54634895	-0.743220499	PASS
LACTB	15	63121800	63142061	-0.759380635	PASS
LACTB2	8	70635318	70669174	0.182873287	suppress_segment_too_large
LACTBL1	1	22953043	22965338	0.048749694	PASS
LAD1	1	201373244	201399915	-0.204996646	suppress_segment_too_large
LAG3	12	6772512	6778455	-0.015029783	PASS
LAGE3	23	154477769	154479257	0.158844052	PASS
LAIR1	19	54351384	54370558	0.142581352	PASS
LAIR2	19	54497879	54510687	0.142581352	PASS
LALBA	12	48567684	48570066	-0.743220499	PASS
LAMA1	18	6941744	7117814	0.044197172	PASS
LAMA2	6	128883141	129516569	-0.304168115	PASS
LAMA3	18	23689443	23956222	-0.330515409	PASS
LAMA4	6	112108760	112254939	-0.355603029	PASS
LAMA5	20	62307955	62367312	-0.172056771	suppress_segment_too_large
LAMB1	7	107923799	108003255	-0.712149877	PASS
LAMB2	3	49121114	49133118	-0.727808231	PASS
LAMB3	1	209614870	209652466	-0.204996646	suppress_segment_too_large
LAMB4	7	108023548	108130356	-0.712149877	PASS
LAMC1	1	183023460	183145592	0.088103245	PASS
LAMC2	1	183186238	183244900	0.088103245	PASS
LAMC3	9	131009082	131094473	0.073960965	PASS
LAMP1	13	113297241	113323672	-0.426822582	PASS
LAMP2	23	120427827	120469365	0.158844052	PASS
LAMP3	3	183122213	183163839	0.02267528	PASS
LAMP5	20	9514358	9530524	-0.172056771	suppress_segment_too_large
LAMTOR1	11	72085895	72103387	0.064535884	PASS
LAMTOR2	1	156054752	156058510	0.088103245	PASS
LAMTOR3	4	99878336	99894490	-0.677982248	PASS
LAMTOR4	7	100148907	100155944	-0.710463272	PASS
LAMTOR5	1	110401249	110407942	0.079255572	PASS
LANCL1	2	210431249	210477652	0.011001208	PASS
LANCL2	7	55365448	55433742	-0.701511252	PASS
LANCL3	23	37571569	37684463	0.158844052	PASS
LAP3	4	17577192	17607972	-0.358623662	PASS

LAPTM4A	2	20032650	20052028	0.034263343	PASS
LAPTM4B	8	97775057	97853013	0.355469066	suppress_segment_too_large
LAPTM5	1	30732469	30757820	0.048749694	PASS
LARGE1	22	33162226	33922841	-0.740245994	PASS
LARGE2	11	45921621	45929096	0.059795455	PASS
LARP1	5	154712902	154817607	-0.393084436	PASS
LARP1B	4	128061268	128222931	0.142431244	suppress_segment_too_large
LARP4	12	50392383	50480004	-0.743220499	PASS
LARP4B	10	806914	931705	0.075711544	PASS
LARP6	15	70829130	70854159	-0.759380635	PASS
LARP7	4	112636964	112657592	-0.677982248	PASS
LARS	5	146113038	146182660	-0.393084436	PASS
LARS2	3	45388506	45549421	-0.727808231	PASS
LAS1L	23	65512582	65534775	0.158844052	PASS
LASP1	17	38869859	38921770	0.041294512	PASS
LAT	16	28984826	28990783	0.053595371	PASS
LAT2	7	74199652	74229834	-0.701511252	PASS
LATS1	6	149658153	149718256	0.033894706	PASS
LATS2	13	20973032	21061547	-0.398748891	PASS
LAX1	1	203765176	203776233	-0.204996646	suppress_segment_too_large
LAYN	11	111540280	111561745	-0.431650509	PASS
LBH	2	30231369	30323730	0.034263343	PASS
LBHD1	11	62662817	62672255	0.064535884	PASS
LBHD2	14	103084210	103090027	-0.155273506	suppress_segment_too_large
LBP	20	38346356	38377023	-0.172056771	suppress_segment_too_large
LBR	1	225401502	225428925	-0.204996646	suppress_segment_too_large
LBX1	10	101226195	101229794	-0.414937136	PASS
LBX2	2	74497517	74503316	-0.46122572	PASS
LCA5	6	79484991	79537458	-0.250122709	PASS
LCA5L	21	39405844	39445805	0.209983559	PASS
LCAT	16	67939750	67944131	-0.423061015	PASS
LCE1A	1	152827473	152827894	0.088103245	PASS
LCE1B	1	152811971	152813109	0.088103245	PASS
LCE1C	1	152804835	152806628	0.088103245	PASS
LCE1D	1	152796751	152798181	0.088103245	PASS
LCE1E	1	152786214	152788426	0.088103245	PASS
LCE1F	1	152776372	152776728	0.088103245	PASS
LCE2A	1	152698364	152699442	0.088103245	PASS
LCE2B	1	152686123	152687401	0.088103245	PASS
LCE2C	1	152675295	152676574	0.088103245	PASS
LCE2D	1	152663396	152664659	0.088103245	PASS
LCE3A	1	152622834	152623103	0.088103245	PASS
LCE3B	1	152613811	152614098	0.088103245	PASS
LCE3C	1	152600662	152601086	0.088103245	PASS
LCE3D	1	152579381	152580504	0.088103245	PASS
LCE3E	1	152565654	152566772	0.088103245	PASS
LCE4A	1	152708160	152709491	0.088103245	PASS
LCE5A	1	152510844	152512177	0.088103245	PASS
LCE6A	1	152842868	152843983	0.088103245	PASS
LCK	1	32251239	32286165	0.048749694	PASS
LCLAT1	2	30447226	30644225	0.034263343	PASS
LCMT1	16	25111729	25178231	0.053595371	PASS
LCMT2	15	43323649	43330605	-0.423772929	PASS
LCN1	9	135521438	135526532	0.073960965	PASS

LCN10	9	136738167	136743356	0.073960965	PASS
LCN12	9	136949551	136955497	0.073960965	PASS
LCN15	9	136759634	136766255	0.073960965	PASS
LCN2	9	128149071	128153455	0.073960965	PASS
LCN6	9	136744011	136748528	0.073960965	PASS
LCN8	9	136754386	136758543	0.073960965	PASS
LCN9	9	135663322	135666422	0.073960965	PASS
LCNL1	9	136981904	136986410	0.073960965	PASS
LCOR	10	96832282	96995959	-0.414937136	PASS
LCORL	4	17841199	18021876	-0.358623662	PASS
LCP1	13	46125920	46211871	-0.398748891	PASS
LCP2	5	170246237	170298227	0.165341871	suppress_segment_too_large
LCT	2	135787840	135837180	-0.359440172	PASS
LCTL	15	66547179	66565979	-0.759380635	PASS
LDAH	2	20684014	20823130	0.034263343	PASS
LDB1	10	102107560	102120453	-0.414937136	PASS
LDB2	4	16501541	16898809	-0.358623662	PASS
LDB3	10	86668449	86736068	-0.461254852	PASS
LDHA	11	18394388	18408425	-0.39835217	PASS
LDHAL6A	11	18455824	18479600	-0.39835217	PASS
LDHAL6B	15	59206823	59208515	-0.759380635	PASS
LDHB	12	21635342	21757857	0.49032213	suppress_segment_too_large
LDHC	11	18412307	18452058	-0.39835217	PASS
LDHD	16	75111860	75116771	-0.423061015	PASS
LDLR	19	11089362	11133816	-0.107594294	PASS
LDLRAD1	1	54007299	54018186	-0.736943052	PASS
LDLRAD2	1	21812265	21825221	0.048749694	PASS
LDLRAD3	11	35943981	36232136	-0.359426047	PASS
LDLRAD4	18	13217498	13652755	0.044197172	PASS
LDLRAP1	1	25543580	25568886	0.048749694	PASS
LDOC1	23	141175745	141177125	0.158844052	PASS
LEAP2	5	132872322	132875046	-0.393084436	PASS
LECT2	5	135922279	135955034	-0.393084436	PASS
LEF1	4	108047545	108168956	-0.677982248	PASS
LEFTY1	1	225886282	225911382	-0.204996646	suppress_segment_too_large
LEFTY2	1	225936598	225941489	-0.204996646	suppress_segment_too_large
LEKR1	3	156825481	157046129	0.02267528	PASS
LELP1	1	153203443	153205120	0.088103245	PASS
LEMD1	1	205381378	205457091	-0.204996646	suppress_segment_too_large
LEMD2	6	33771202	33789136	0.028532667	PASS
LEMD3	12	65169571	65248327	-0.743220499	PASS
LENEP	1	154993586	154994315	0.088103245	PASS
LENG1	19	54155161	54159882	0.142581352	PASS
LENG8	19	54448887	54462037	0.142581352	PASS
LENG9	19	54461796	54463711	0.142581352	PASS
LEO1	15	51938025	51971806	-0.423772929	PASS
LEP	7	128241284	128257628	-0.712149877	PASS
LEPR	1	65420652	65641559	0.052232535	PASS
LEPROT	1	65420587	65436007	0.052232535	PASS
LEPROTL	8	30095398	30177208	-0.311940419	PASS
LETM1	4	1811479	1856247	-0.358623662	PASS
LETM2	8	38386207	38409527	0.182873287	suppress_segment_too_large
LETMD1	12	51047962	51060424	-0.743220499	PASS
LEUTX	19	39776595	39786167	0.048917043	PASS

LEXM	1	54806063	54842252	-0.736943052	PASS
LFNG	7	2512529	2529177	-0.72421718	PASS
LGALS1	22	37675608	37679806	-0.740245994	PASS
LGALS12	11	63506084	63516774	0.064535884	PASS
LGALS13	19	39602501	39607476	0.048917043	PASS
LGALS14	19	39704306	39709444	0.048917043	PASS
LGALS16	19	39655894	39660647	0.048917043	PASS
LGALS2	22	37570246	37582616	-0.740245994	PASS
LGALS3	14	55124110	55145413	0.053252507	PASS
LGALS3B	17	78971238	78980109	0.051798665	PASS
LGALS4	19	38801671	38813364	0.048917043	PASS
LGALS7	19	38770971	38773492	0.048917043	PASS
LGALS7B	19	38789211	38791749	0.048917043	PASS
LGALS8	1	236518000	236552981	-0.204996646	suppress_segment_too_large
LGALS9	17	27629798	27649560	0.041294512	PASS
LGALS9B	17	20449395	20467539	0.06854245	PASS
LGALS9C	17	18476737	18494945	0.06854245	PASS
LGALSL	2	64453969	64461381	-0.46122572	PASS
LGI1	10	93757809	93806272	-0.414937136	PASS
LGI2	4	24998847	25030879	-0.358623662	PASS
LGI3	8	22146825	22157084	-0.311940419	PASS
LGI4	19	35124513	35142451	0.044838622	PASS
LGMN	14	92703807	92748702	-0.155273506	suppress_segment_too_large
LGR4	11	27365961	27472775	-0.359426047	PASS
LGR5	12	71439770	71586310	-0.578548701	PASS
LGR6	1	202193901	202319781	-0.204996646	suppress_segment_too_large
LGSN	6	63275951	63319977	0.239805577	suppress_segment_too_large
LHB	19	49015980	49017091	0.002743503	PASS
LHCGR	2	48686775	48755730	0.034263343	PASS
LHFPL1	23	112630648	112680054	0.158844052	PASS
LHFPL2	5	78485215	78770021	-0.393084436	PASS
LHFPL3	7	104328656	104907232	-0.712149877	PASS
LHFPL4	3	9498361	9553802	0.06149513	PASS
LHFPL5	6	35805293	35833874	0.028532667	PASS
LHFPL6	13	39209116	39603528	-0.398748891	PASS
LHPP	10	124461834	124617888	0.073090211	PASS
LHX1	17	36936785	36944612	0.041294512	PASS
LHX2	9	124001670	124033301	0.073960965	PASS
LHX3	9	136196250	136205128	0.073960965	PASS
LHX4	1	180230286	180278982	0.088103245	PASS
LHX5	12	113462034	113472280	0.028722739	PASS
LHX6	9	122202577	122229626	0.073960965	PASS
LHX8	1	75128434	75161533	0.052232535	PASS
LHX9	1	197911902	197935478	0.088103245	PASS
LIAS	4	39458587	39485109	-0.753159364	PASS
LIF	22	30240447	30246851	-0.740245994	PASS
LIFR	5	38474963	38608354	0.073527871	PASS
LIG1	19	48115445	48170603	0.002743503	PASS
LIG3	17	34980494	35009743	0.041294512	PASS
LIG4	13	108207439	108218368	-0.426822582	PASS
LILRA1	19	54593582	54602090	0.142581352	PASS
LILRA2	19	54572920	54590287	0.142581352	PASS
LILRA4	19	54333185	54339150	0.142581352	PASS
LILRA5	19	54307070	54313139	0.142581352	PASS

LILRA6	19	54236592	54242791	0.142581352	PASS
LILRB1	19	54617158	54637528	0.142581352	PASS
LILRB2	19	54273821	54281184	0.142581352	PASS
LILRB3	19	54216278	54223506	0.142581352	PASS
LILRB4	19	54643889	54670359	0.142581352	PASS
LILRB5	19	54249431	54257301	0.142581352	PASS
LIM2	19	51379909	51387960	0.002743503	PASS
LIMA1	12	50175788	50283546	-0.743220499	PASS
LIMCH1	4	41359607	41700044	-0.753159364	PASS
LIMD1	3	45555394	45686338	-0.727808231	PASS
LIMD2	17	63695902	63701172	0.051798665	PASS
LIME1	20	63736283	63739103	-0.172056771	suppress_segment_too_large
LIMK1	7	74082933	74122525	-0.701511252	PASS
LIMK2	22	31212239	31280080	-0.740245994	PASS
LIMS1	2	108534355	108687246	0.040971718	PASS
LIMS2	2	127638381	127681786	-0.359440172	PASS
LIN28A	1	26410778	26429722	0.048749694	PASS
LIN28B	6	104936616	105083332	-0.355603029	PASS
LIN37	19	35748361	35754519	0.044838622	PASS
LIN52	14	74084796	74201235	0.053252507	PASS
LIN54	4	82909973	83012926	-0.677982248	PASS
LIN7A	12	80792520	80937925	0.271127429	suppress_segment_too_large
LIN7B	19	49114324	49118460	0.002743503	PASS
LIN7C	11	27494576	27506773	-0.359426047	PASS
LIN9	1	226231149	226309869	-0.204996646	suppress_segment_too_large
LINC0220	15	21552795	21653276	-0.423772929	PASS
LINC0221	17	45620344	45835826	0.051798665	PASS
LINC0221	5	17444010	17486829	0.073527871	PASS
LINGO1	15	77613027	77820900	-0.759380635	PASS
LINGO2	9	27948078	28670286	0.073960965	PASS
LINGO3	19	2289784	2292024	-0.071973357	PASS
LINGO4	1	151800264	151806154	0.079255572	PASS
LINS1	15	100559369	100603230	-0.759380635	PASS
LIPA	10	89213569	89414557	-2.417109027	suppress_large_homdel
LIPC	15	58410569	58569843	-0.759380635	PASS
LIPE	19	42401507	42427426	0.048917043	PASS
LIPF	10	88664441	88678814	-2.417109027	suppress_large_homdel
LIPG	18	49560699	49599182	-0.330515409	PASS
LIPH	3	185506262	185552613	0.02267528	PASS
LIPI	21	14108813	14210891	0.758930684	suppress_segment_too_large
LIPJ	10	88586753	88606976	-2.417109027	suppress_large_homdel
LIPK	10	88724544	88752786	-2.417109027	suppress_large_homdel
LIPM	10	88802730	88820546	-2.417109027	suppress_large_homdel
LIPN	10	88761406	88778242	-2.417109027	suppress_large_homdel
LIPT1	2	99154955	99163157	0.064122364	PASS
LIPT2	11	74491712	74493733	0.064535884	PASS
LITAF	16	11547722	11636381	0.053595371	PASS
LIX1	5	97091867	97142872	-0.393084436	PASS
LIX1L	1	145933423	145958001	0.079255572	PASS
LKAAEAF	20	64083380	64084359	-0.172056771	suppress_segment_too_large
LLCFC1	7	142939343	142940868	-0.712149877	PASS
LLGL1	17	18225587	18244875	0.06854245	PASS
LLGL2	17	75525080	75575208	0.051798665	PASS
LLPH	12	66116555	66130768	-0.743220499	PASS

LMAN1	18	59327823	59359962	-0.330515409	PASS
LMAN1L	15	74812716	74825758	-0.759380635	PASS
LMAN2	5	177331562	177351852	0.165341871	suppress_segment_too_large
LMAN2L	2	96705929	96740064	0.064122364	PASS
LMBR1	7	156668946	156893230	-0.77630473	PASS
LMBR1L	12	49096551	49110900	-0.743220499	PASS
LMBRD1	6	69675793	69867236	-0.250122709	PASS
LMBRD2	5	36098412	36151961	0.073527871	PASS
LMCD1	3	8501707	8574673	0.06149513	PASS
LMF1	16	853634	981318	0.053595371	PASS
LMF2	22	50502949	50507691	-0.953096644	PASS
LMLN	3	197960200	198043720	0.02267528	PASS
LMNA	1	156082573	156140089	0.088103245	PASS
LMNB1	5	126776623	126837020	-0.393084436	PASS
LMNB2	19	2427638	2456996	-0.071973357	PASS
LMNTD1	12	25409307	25648579	0.49032213	suppress_segment_too_large
LMNTD2	11	554855	560779	-0.39835217	PASS
LMO1	11	8224304	8268716	-0.39835217	PASS
LMO2	11	33858576	33892289	-0.359426047	PASS
LMO3	12	16548373	16610594	0.49032213	suppress_segment_too_large
LMO4	1	87328468	87348923	0.079255572	PASS
LMO7	13	75620434	75859870	-0.384313056	PASS
LMOD1	1	201896452	201946588	-0.204996646	suppress_segment_too_large
LMOD2	7	123655807	123664290	-0.712149877	PASS
LMOD3	3	69106872	69123032	-0.727808231	PASS
LMTK2	7	98106885	98209633	-0.710463272	PASS
LMTK3	19	48485271	48513935	0.002743503	PASS
LMX1A	1	165201867	165356715	0.088103245	PASS
LMX1B	9	126614443	126701032	0.073960965	PASS
LNP1	3	100401193	100456319	0.22470242	PASS
LNPEP	5	96935394	97037515	-0.393084436	PASS
LNPK	2	175923892	176002839	0.033541467	PASS
LNX1	4	53459301	53701405	0.115781418	suppress_segment_too_large
LNX2	13	27545911	27620404	-0.398748891	PASS
LONP1	19	5691834	5720572	-0.071973357	PASS
LONP2	16	48244296	48363122	0.053595371	PASS
LONRF1	8	12721894	12756073	-0.311940419	PASS
LONRF2	2	100273291	100322733	0.064122364	PASS
LONRF3	23	118974614	119018355	0.158844052	PASS
LOR	1	153259700	153262122	0.088103245	PASS
LOX	5	122063195	122078360	-0.393084436	PASS
LOXHD1	18	46476972	46657220	-0.330515409	PASS
LOXL1	15	73925989	73952137	-0.759380635	PASS
LOXL2	8	23297189	23425328	-0.311940419	PASS
LOXL3	2	74532414	74555690	-0.46122572	PASS
LOXL4	10	98247690	98268250	-0.414937136	PASS
LPA	6	160531483	160664259	0.033894706	PASS
LPAR1	9	110873263	111038458	0.073960965	PASS
LPAR2	19	19623668	19628930	-0.069222905	PASS
LPAR3	1	84811602	84893213	0.587598296	PASS
LPAR4	23	78747709	78757094	0.158844052	PASS
LPAR5	12	6618835	6636447	-0.015029783	PASS
LPAR6	13	48389567	48444704	-0.384313056	PASS
LPCAT1	5	1456480	1523977	0.073527871	PASS

LPCAT2	16	55508998	55586670	-0.423061015	PASS
LPCAT3	12	6976186	7018510	-0.015029783	PASS
LPCAT4	15	34358618	34367278	-0.423772929	PASS
LPGAT1	1	211743457	211830772	-0.204996646	suppress_segment_too_large
LPIN1	2	11677595	11827409	0.034263343	PASS
LPIN2	18	2916994	3013315	0.044197172	PASS
LPIN3	20	41340920	41360582	-0.172056771	suppress_segment_too_large
LPL	8	19901717	19967259	-0.311940419	PASS
LPO	17	58218548	58268518	0.051798665	PASS
LPP	3	188153284	188890671	0.02267528	PASS
LPXN	11	58526871	58578220	0.27006553	suppress_segment_too_large
LRAT	4	154626945	154753118	0.142431244	suppress_segment_too_large
LRBA	4	150264531	151015727	0.142431244	suppress_segment_too_large
LRCH1	13	46553168	46753040	-0.398748891	PASS
LRCH2	23	115110616	115234072	0.158844052	PASS
LRCH3	3	197791226	197888436	0.02267528	PASS
LRCH4	7	100574011	100586153	-0.710463272	PASS
LRCOL1	12	132603150	132610543	0.028722739	PASS
LRFN1	19	39306568	39315336	0.048917043	PASS
LRFN2	6	40391586	40587465	0.028532667	PASS
LRFN3	19	35935358	35945767	0.044838622	PASS
LRFN4	11	66856647	66860475	0.064535884	PASS
LRFN5	14	41607570	41904549	0.053252507	PASS
LRG1	19	4536409	4540474	-0.071973357	PASS
LRGUK	7	134127299	134264591	-0.712149877	PASS
LRIF1	1	110947185	110964079	0.079255572	PASS
LRIG1	3	66378797	66501263	-0.727808231	PASS
LRIG2	1	113073209	113132260	0.079255572	PASS
LRIG3	12	58872149	58920522	-0.743220499	PASS
LRIT1	10	84231593	84241461	0.032351597	PASS
LRIT2	10	84220495	84225589	0.032351597	PASS
LRIT3	4	109848202	109872315	-0.677982248	PASS
LRMDA	10	75431453	76560167	0.032351597	PASS
LRMP	12	25004342	25108334	0.49032213	suppress_segment_too_large
LRP1	12	57128493	57213351	-0.743220499	PASS
LRP10	14	22871613	22881580	0.053252507	PASS
LRP11	6	149818798	149864026	0.033894706	PASS
LRP12	8	104489231	104589024	0.70944438	suppress_segment_too_large
LRP1B	2	140231423	142131701	-0.359440172	PASS
LRP2	2	169127109	169362685	0.033541467	PASS
LRP2BP	4	185363879	185395899	0.275137421	PASS
LRP3	19	33177603	33208867	0.044838622	PASS
LRP4	11	46856868	46918642	0.059795455	PASS
LRP5	11	68312609	68449275	0.064535884	PASS
LRP5L	22	25351418	25405377	-0.740245994	PASS
LRP6	12	12116025	12267012	0.49032213	suppress_segment_too_large
LRP8	1	53242364	53328070	-0.736943052	PASS
LRPAP1	4	3503597	3532559	-0.358623662	PASS
LRPPRC	2	43886508	43996005	0.034263343	PASS
LRR1	14	49598697	49614672	0.053252507	PASS
LRRC1	6	53794497	53924121	0.239805577	suppress_segment_too_large
LRRC10	12	69608564	69611162	-0.743220499	PASS
LRRC10B	11	61508800	61511018	0.064535884	PASS
LRRC14	8	144517992	144525178	0.699132336	PASS

LRRC14B	5	191511	195353	0.073527871	PASS
LRRC15	3	194355247	194369743	0.02267528	PASS
LRRC17	7	102912991	102944949	-0.712149877	PASS
LRRC18	10	48909483	48914232	-0.389033546	PASS
LRRC19	9	26993136	27005693	0.073960965	PASS
LRRC2	3	46515423	46580099	-0.727808231	PASS
LRRC20	10	70298970	70382650	0.032351597	PASS
LRRC23	12	6873569	6914243	-0.015029783	PASS
LRRC24	8	144522377	144527032	0.699132336	PASS
LRRC25	19	18391144	18397617	-0.069222905	PASS
LRRC26	9	137168758	137170051	0.073960965	PASS
LRRC27	10	132332154	132379918	0.073090211	PASS
LRRC28	15	99251362	99390729	-0.759380635	PASS
LRRC29	16	67207139	67227048	-0.423061015	PASS
LRRC3	21	44455486	44462196	0.209983559	PASS
LRRC30	18	7231125	7232047	0.044197172	PASS
LRRC31	3	169839179	169869930	0.02267528	PASS
LRRC32	11	76657524	76670747	0.064535884	PASS
LRRC34	3	169793428	169812986	0.02267528	PASS
LRRC36	16	67326798	67385203	-0.423061015	PASS
LRRC37A	17	46292733	46337794	0.051798665	PASS
LRRC37A2	17	46511511	46555650	0.051798665	PASS
LRRC37A3	17	64854312	64919480	0.051798665	PASS
LRRC37B	17	32007872	32053504	0.041294512	PASS
LRRC38	1	13474977	13514048	0.048749694	PASS
LRRC39	1	100148449	100178273	0.079255572	PASS
LRRC3B	3	26622806	26717537	0.06149513	PASS
LRRC3C	17	39941474	39944747	0.041294512	PASS
LRRC4	7	128027071	128032107	-0.712149877	PASS
LRRC40	1	70144805	70205620	0.052232535	PASS
LRRC41	1	46261196	46303608	-0.736943052	PASS
LRRC42	1	53946077	53968168	-0.736943052	PASS
LRRC43	12	122167738	122203471	0.028722739	PASS
LRRC45	17	82023302	82031151	0.051798665	PASS
LRRC46	17	47831627	47837713	0.051798665	PASS
LRRC47	1	3778558	3796504	-0.358281697	PASS
LRRC49	15	70853239	71053657	-0.759380635	PASS
LRRC4B	19	50516892	50568045	0.002743503	PASS
LRRC4C	11	40114203	41459773	0.059795455	PASS
LRRC52	1	165544007	165563961	0.088103245	PASS
LRRC53	1	74469878	74512614	0.052232535	PASS
LRRC55	11	57181747	57191717	0.27006553	suppress_segment_too_large
LRRC56	11	537527	554916	-0.39835217	PASS
LRRC57	15	42537820	42548802	-0.423772929	PASS
LRRC58	3	120324509	120349339	0.06434429	PASS
LRRC59	17	50375059	50397553	0.051798665	PASS
LRRC6	8	132571953	132675617	0.493344802	suppress_segment_too_large
LRRC61	7	150322639	150338150	-0.712149877	PASS
LRRC63	13	46211943	46277366	-0.398748891	PASS
LRRC66	4	51993702	52017620	0.115781418	suppress_segment_too_large
LRRC69	8	91101832	91219236	0.617295349	suppress_segment_too_large
LRRC7	1	69568398	70151945	0.052232535	PASS
LRRC70	5	62578735	62581448	0.07724032	PASS
LRRC71	1	156920650	156933094	0.088103245	PASS

LRRC72	7	16526880	16581568	-0.72421718	PASS
LRRC73	6	43506969	43510686	0.028532667	PASS
LRRC74A	14	76826372	76870302	-0.155273506	suppress_segment_too_large
LRRC74B	22	21045960	21064168	-0.740245994	PASS
LRRC75A	17	16441577	16492153	0.06854245	PASS
LRRC75B	22	24585620	24593208	-0.740245994	PASS
LRRC8A	9	128882112	128918039	0.073960965	PASS
LRRC8B	1	89524836	89597864	0.079255572	PASS
LRRC8C	1	89633072	89769903	0.079255572	PASS
LRRC8D	1	89821014	89936611	0.079255572	PASS
LRRC8E	19	7888505	7902021	-0.071973357	PASS
LRRC9	14	59919713	60063559	0.053252507	PASS
LRRCC1	8	85107147	85146076	0.617295349	suppress_segment_too_large
LRRD1	7	92141643	92179531	-0.710463272	PASS
LRRFIP1	2	237627576	237813682	0.011001208	PASS
LRRFIP2	3	37052656	37183689	-0.727808231	PASS
LRRIQ1	12	85036314	85264457	0.271127429	suppress_segment_too_large
LRRIQ3	1	74026015	74198187	0.052232535	PASS
LRRIQ4	3	169821922	169837775	0.02267528	PASS
LRRK1	15	100919215	101078254	-0.759380635	PASS
LRRK2	12	40196744	40369285	-0.46813528	PASS
LRRN1	3	3799437	3847703	0.06149513	PASS
LRRN2	1	204617170	204685733	-0.204996646	suppress_segment_too_large
LRRN3	7	111091006	111125454	-0.712149877	PASS
LRRN4	20	6040778	6054049	-0.172056771	suppress_segment_too_large
LRRN4CL	11	62686402	62689899	0.064535884	PASS
LRRTM1	2	80288351	80304749	0.064122364	PASS
LRRTM2	5	138868923	138875368	-0.393084436	PASS
LRRTM3	10	66926006	67099830	0.032351597	PASS
LRRTM4	2	76747719	77593319	-0.46122572	PASS
LRSAM1	9	127451486	127503501	0.073960965	PASS
LRTM1	3	54918237	54967088	-0.727808231	PASS
LRTM2	12	1820267	1836752	-0.015029783	PASS
LRTOMT	11	72080331	72110782	0.064535884	PASS
LRWD1	7	102464929	102473168	-0.712149877	PASS
LSAMP	3	115802363	117139389	0.06434429	PASS
LSG1	3	194640788	194672477	0.02267528	PASS
LSM1	8	38163321	38176730	0.182873287	suppress_segment_too_large
LSM10	1	36391238	36397892	0.048749694	PASS
LSM11	5	157743695	157760709	0.165341871	suppress_segment_too_large
LSM12	17	44034635	44067619	0.051798665	PASS
LSM14A	19	34172504	34229515	0.044838622	PASS
LSM14B	20	62122461	62135378	-0.172056771	suppress_segment_too_large
LSM2	6	31797396	31806984	0.028532667	PASS
LSM3	3	14178358	14201119	0.06149513	PASS
LSM4	19	18306230	18323274	-0.069222905	PASS
LSM5	7	32485332	32495283	-0.72421718	PASS
LSM6	4	146175685	146200000	0.142431244	suppress_segment_too_large
LSM7	19	2321517	2328620	-0.071973357	PASS
LSM8	7	118184032	118192824	-0.712149877	PASS
LSMEM1	7	112480853	112491062	-0.712149877	PASS
LSMEM2	3	50279027	50288114	-0.727808231	PASS
LSP1	11	1852970	1892267	-0.39835217	PASS
LSR	19	35248330	35267964	0.044838622	PASS

LSS	21	46188141	46228824	0.209983559	PASS
LST1	6	31586124	31588909	0.028532667	PASS
LTA	6	31572054	31574324	0.028532667	PASS
LTA4H	12	96000828	96043520	0.028722739	PASS
LTB	6	31580525	31582522	0.028532667	PASS
LTB4R	14	24311450	24318036	0.053252507	PASS
LTB4R2	14	24305734	24312053	0.053252507	PASS
LTBP1	2	32946972	33399509	0.034263343	PASS
LTBP2	14	74498170	74612378	-0.155273506	suppress_segment_too_large
LTBP3	11	65538805	65558930	0.064535884	PASS
LTBP4	19	40592883	40629818	0.048917043	PASS
LTBR	12	6375045	6391571	-0.015029783	PASS
LTC4S	5	179793980	179796647	0.165341871	suppress_segment_too_large
LTF	3	46435645	46485234	-0.727808231	PASS
LTK	15	41503638	41513887	-0.423772929	PASS
LTN1	21	28928144	28992956	0.209983559	PASS
LTO1	11	69653076	69675416	0.064535884	PASS
LTV1	6	143843344	143863812	0.033894706	PASS
LUC7L	16	188969	229463	0.053595371	PASS
LUC7L2	7	139340359	139423457	-0.712149877	PASS
LUC7L3	17	50719544	50756213	0.051798665	PASS
LUM	12	91102629	91111831	0.271127429	suppress_segment_too_large
LURAP1	1	46203334	46221261	-0.736943052	PASS
LURAP1L	9	12775021	12822131	0.073960965	PASS
LUZP1	1	23084023	23177808	0.048749694	PASS
LUZP2	11	24496970	25082631	-0.359426047	PASS
LUZP4	23	115289727	115307556	0.158844052	PASS
LUZP6	7	135927274	135927450	-0.712149877	PASS
LVRN	5	115962454	116027619	-0.393084436	PASS
LXN	3	158645822	158672693	0.02267528	PASS
LY6D	8	142784880	142786592	0.699132336	PASS
LY6E	8	143017982	143023832	0.699132336	PASS
LY6G5B	6	31670167	31673776	0.028532667	PASS
LY6G5C	6	31676684	31684040	0.028532667	PASS
LY6G6C	6	31718648	31721845	0.028532667	PASS
LY6G6D	6	31715356	31717804	0.028532667	PASS
LY6G6E	6	31711771	31714065	0.028532667	PASS
LY6G6F	6	31706885	31710595	0.028532667	PASS
LY6G6F-L	6	31706904	31717918	0.028532667	PASS
LY6H	8	143157914	143160711	0.699132336	PASS
LY6K	8	142700111	142705127	0.699132336	PASS
LY6L	8	143080457	143083001	0.699132336	PASS
LY75	2	159803355	159904749	0.054749241	PASS
LY75-CD3	2	159771851	159904710	0.054749241	PASS
LY86	6	6588108	6654983	0.069043418	PASS
LY9	1	160796074	160828261	0.088103245	PASS
LY96	8	73991352	74029087	0.182873287	suppress_segment_too_large
LYAR	4	4267701	4290169	-0.358623662	PASS
LYG1	2	99284238	99304742	0.064122364	PASS
LYG2	2	99242246	99255282	0.064122364	PASS
LYL1	19	13099033	13103161	-0.069222905	PASS
LYN	8	55879813	56014168	0.182873287	suppress_segment_too_large
LYNX1	8	142771197	142777810	0.699132336	PASS
LYNX1-SI	8	142764334	142778224	0.699132336	PASS

LYPD1	2	132644853	132671579	-0.359440172	PASS
LYPD2	8	142750150	142752534	0.699132336	PASS
LYPD3	19	43460787	43465660	0.048917043	PASS
LYPD4	19	41837074	41844697	0.048917043	PASS
LYPD5	19	43795929	43827206	0.048917043	PASS
LYPD6	2	149329985	149474148	-0.30549516	PASS
LYPD6B	2	149038107	149215262	-0.30549516	PASS
LYPD8	1	248718649	248755739	0.019108461	PASS
LYPLA1	8	54046367	54102017	0.182873287	suppress_segment_too_large
LYPLA2	1	23790970	23795539	0.048749694	PASS
LYPLAL1	1	219173844	219212865	-0.204996646	suppress_segment_too_large
LYRM1	16	20899868	20925006	0.053595371	PASS
LYRM2	6	89568144	89638753	-0.355603029	PASS
LYRM4	6	5102593	5260939	0.069043418	PASS
LYRM7	5	131170810	131205426	-0.393084436	PASS
LYRM9	17	27878314	27894752	0.041294512	PASS
LYSMD1	1	151159748	151165948	0.079255572	PASS
LYSMD2	15	51723011	51751585	-0.423772929	PASS
LYSMD3	5	90515611	90529584	-0.393084436	PASS
LYSMD4	15	99715697	99733561	-0.759380635	PASS
LYST	1	235661041	235883640	-0.204996646	suppress_segment_too_large
LYVE1	11	10556966	10611689	-0.39835217	PASS
LYZ	12	69348341	69354234	-0.743220499	PASS
LYZL1	10	29289061	29318328	0.075711544	PASS
LYZL2	10	30611779	30629762	0.075711544	PASS
LYZL4	3	42397078	42410600	-0.727808231	PASS
LYZL6	17	35934518	35943699	0.041294512	PASS
LZIC	1	9922113	9943407	0.364796772	PASS
LZTFL1	3	45823316	45916042	-0.727808231	PASS
LZTR1	22	20982013	20999038	-0.740245994	PASS
LZTS1	8	20246165	20303963	-0.311940419	PASS
LZTS2	10	100996618	101007836	-0.414937136	PASS
LZTS3	20	3162617	3173592	-0.172056771	suppress_segment_too_large
M1AP	2	74557883	74648338	-0.46122572	PASS
M6PR	12	8940363	8949955	0.505438545	PASS
MAATS1	3	119703022	119767102	0.06434429	PASS
MAB21L1	13	35474182	35477209	-0.398748891	PASS
MAB21L2	4	150581922	150584693	0.142431244	suppress_segment_too_large
MAB21L3	1	116111755	116135240	0.079255572	PASS
MAB21L4	2	240886048	240896889	0.011001208	PASS
MACC1	7	20134655	20217404	-0.72421718	PASS
MACF1	1	39081316	39487177	0.048749694	PASS
MACO1	1	25430858	25500209	0.048749694	PASS
MACROD	11	63998558	64166106	0.064535884	PASS
MACROD	20	13995369	16053197	-0.172056771	suppress_segment_too_large
MAD1L1	7	1815793	2233243	-0.72421718	PASS
MAD2L1	4	120055608	120067074	0.142431244	suppress_segment_too_large
MAD2L1B	6	43629540	43640952	0.028532667	PASS
MAD2L2	1	11674480	11691650	0.364796772	PASS
MADCAM	19	489176	505342	-0.071973357	PASS
MADD	11	47269161	47330031	0.059795455	PASS
MAEA	4	1289851	1340147	-0.358623662	PASS
MAEL	1	166975582	167022214	0.088103245	PASS
MAF	16	79585843	79600714	-0.423061015	PASS

MAF1	8	144104499	144107611	0.699132336	PASS
MAFA	8	143419182	143430406	0.699132336	PASS
MAFB	20	40685848	40689240	-0.172056771	suppress_segment_too_large
MAFF	22	38200767	38216511	-0.740245994	PASS
MAFG	17	81918270	81927714	0.051798665	PASS
MAFK	7	1530714	1543043	-0.72421718	PASS
MAG	19	35292125	35313804	0.044838622	PASS
MAGEA1	23	153179285	153183880	0.158844052	PASS
MAGEA1(	23	152133310	152138578	0.158844052	PASS
MAGEA11	23	149688228	149717266	0.158844052	PASS
MAGEA12	23	152733779	152737669	0.158844052	PASS
MAGEA3	23	152698752	152702347	0.158844052	PASS
MAGEA4	23	151912509	151925170	0.158844052	PASS
MAGEA6	23	152766136	152769747	0.158844052	PASS
MAGEA8	23	149881141	149885835	0.158844052	PASS
MAGEB1	23	30243730	30252038	0.158844052	PASS
MAGEB1(	23	27807990	27823014	0.158844052	PASS
MAGEB16	23	35798342	35803735	0.158844052	PASS
MAGEB17	23	16167481	16171464	0.158844052	PASS
MAGEB18	23	26138343	26140735	0.158844052	PASS
MAGEB2	23	30215560	30220089	0.158844052	PASS
MAGEB3	23	30230436	30237492	0.158844052	PASS
MAGEB4	23	30242052	30244193	0.158844052	PASS
MAGEB5	23	26216169	26218270	0.158844052	PASS
MAGEB6	23	26192440	26195646	0.158844052	PASS
MAGEB6E	23	26160601	26161824	0.158844052	PASS
MAGEC1	23	141903894	141909388	0.158844052	PASS
MAGEC2	23	142202345	142205290	0.158844052	PASS
MAGEC3	23	141838316	141897832	0.158844052	PASS
MAGED1	23	51803007	51902357	0.158844052	PASS
MAGED2	23	54807599	54816012	0.158844052	PASS
MAGEE1	23	76427724	76431353	0.158844052	PASS
MAGEE2	23	75782988	75785236	0.158844052	PASS
MAGEF1	3	184710367	184712002	0.02267528	PASS
MAGEH1	23	55452105	55453566	0.158844052	PASS
MAGEL2	15	23643549	23647867	-0.423772929	PASS
MAGI1	3	65353525	66038834	-0.727808231	PASS
MAGI2	7	78017057	79453574	-0.701511252	PASS
MAGI3	1	113390749	113685923	0.079255572	PASS
MAGIX	23	49162564	49168483	0.158844052	PASS
MAGOH	1	53226892	53238610	-0.736943052	PASS
MAGOHB	12	10604190	10613623	0.505438545	PASS
MAGT1	23	77826364	77895593	0.158844052	PASS
MAIP1	2	199955317	200008540	0.011001208	PASS
MAJIN	11	64937517	64972085	0.064535884	PASS
MAK	6	10762723	10838555	0.069043418	PASS
MAK16	8	33484750	33501260	-0.311940419	PASS
MAL	2	95025677	95053996	0.064122364	PASS
MAL2	8	119165034	119245673	0.493344802	suppress_segment_too_large
MALL	2	110083870	110116566	0.040971718	PASS
MALRD1	10	19048771	19790401	0.075711544	PASS
MALSU1	7	23298739	23311729	-0.72421718	PASS
MALT1	18	58671386	58754477	-0.330515409	PASS
MAMDC2	9	70043581	70226970	0.073960965	PASS

MAMDC4	9	136850943	136860799	0.073960965	PASS
MAML1	5	179732850	179777286	0.165341871	suppress_segment_too_large
MAML2	11	95976598	96343180	0.32805343	suppress_segment_too_large
MAML3	4	139716753	140154184	0.142431244	suppress_segment_too_large
MAMLD1	23	150361422	150514178	0.158844052	PASS
MAMSTR	19	48712742	48719721	0.002743503	PASS
MAN1A1	6	119177209	119349761	-0.355603029	PASS
MAN1A2	1	117367449	117528872	0.079255572	PASS
MAN1B1	9	137086927	137109187	0.073960965	PASS
MAN1C1	1	25617468	25786207	0.048749694	PASS
MAN2A1	5	109689366	109869625	-0.393084436	PASS
MAN2A2	15	90902218	90922584	-0.759380635	PASS
MAN2B1	19	12646511	12666742	-0.069222905	PASS
MAN2B2	4	6575175	6623362	-0.358623662	PASS
MAN2C1	15	75355207	75368630	-0.759380635	PASS
MANBA	4	102630770	102760994	-0.677982248	PASS
MANBAL	20	37289638	37317260	-0.172056771	suppress_segment_too_large
MANEA	6	95577543	95609457	-0.355603029	PASS
MANEAL	1	37793802	37801137	0.048749694	PASS
MANF	3	51385047	51389397	-0.727808231	PASS
MANSC1	12	12326056	12350541	0.49032213	suppress_segment_too_large
MANSC4	12	27762738	27771276	0.49032213	suppress_segment_too_large
MAOA	23	43654907	43746824	0.158844052	PASS
MAOB	23	43766611	43882447	0.158844052	PASS
MAP10	1	232804892	232808407	-0.204996646	suppress_segment_too_large
MAP1A	15	43510958	43531620	-0.423772929	PASS
MAP1B	5	72107234	72209570	-0.393084436	PASS
MAP1LC3	20	34546854	34560345	-0.172056771	suppress_segment_too_large
MAP1LC3	16	87383995	87404779	-0.423061015	PASS
MAP1LC3	12	116548105	116576448	0.028722739	PASS
MAP1LC3	1	241995490	241999073	-0.287484925	PASS
MAP1S	19	17719242	17734516	-0.069222905	PASS
MAP2	2	209424058	209734118	0.011001208	PASS
MAP2K1	15	66386817	66492312	-0.759380635	PASS
MAP2K2	19	4090321	4124129	-0.071973357	PASS
MAP2K3	17	21284672	21315240	0.041294512	PASS
MAP2K4	17	12020824	12143830	0.06854245	PASS
MAP2K5	15	67542709	67807123	-0.759380635	PASS
MAP2K6	17	69414698	69553861	0.051798665	PASS
MAP2K7	19	7903843	7914478	-0.071973357	PASS
MAP3K1	5	56815574	56896152	-0.284712224	PASS
MAP3K10	19	40191744	40215575	0.048917043	PASS
MAP3K11	11	65597755	65615382	0.064535884	PASS
MAP3K12	12	53479669	53500063	-0.743220499	PASS
MAP3K13	3	185282941	185489097	0.02267528	PASS
MAP3K14	17	45263119	45317145	0.051798665	PASS
MAP3K15	23	19360056	19515261	0.158844052	PASS
MAP3K19	2	134964491	135047468	-0.359440172	PASS
MAP3K2	2	127298730	127388465	-0.359440172	PASS
MAP3K20	2	173075435	173268010	0.033541467	PASS
MAP3K21	1	233327768	233385148	-0.204996646	suppress_segment_too_large
MAP3K3	17	63622415	63696303	0.051798665	PASS
MAP3K4	6	160991727	161117385	0.033894706	PASS
MAP3K5	6	136557047	136792518	0.033894706	PASS

MAP3K6	1	27355184	27366892	0.048749694	PASS
MAP3K7	6	90513573	90587045	-0.355603029	PASS
MAP3K7C	21	29077471	29175889	0.209983559	PASS
MAP3K8	10	30433937	30461833	0.075711544	PASS
MAP3K9	14	70722526	70809534	0.053252507	PASS
MAP4	3	47850690	48089272	-0.727808231	PASS
MAP4K1	19	38587641	38618882	0.048917043	PASS
MAP4K2	11	64784914	64803241	0.064535884	PASS
MAP4K3	2	39249266	39437312	0.034263343	PASS
MAP4K4	2	101696850	101894689	0.064122364	PASS
MAP4K5	14	50418501	50561126	0.053252507	PASS
MAP6	11	75586918	75669120	0.064535884	PASS
MAP6D1	3	183815876	183825594	0.02267528	PASS
MAP7	6	136342281	136550819	0.033894706	PASS
MAP7D1	1	36155579	36180849	0.048749694	PASS
MAP7D2	23	20006713	20116917	0.158844052	PASS
MAP7D3	23	136213220	136256482	0.158844052	PASS
MAP9	4	155342658	155376970	0.142431244	suppress_segment_too_large
MAPK1	22	21754500	21867680	-0.740245994	PASS
MAPK10	4	85990007	86594625	-0.677982248	PASS
MAPK11	22	50263713	50270767	-0.953096644	PASS
MAPK12	22	50245450	50261825	-0.953096644	PASS
MAPK13	6	36127809	36144524	0.028532667	PASS
MAPK14	6	36027677	36111236	0.028532667	PASS
MAPK15	8	143716259	143722458	0.699132336	PASS
MAPK1IP	14	55051631	55070192	0.053252507	PASS
MAPK3	16	30114105	30123506	0.053595371	PASS
MAPK4	18	50560078	50731824	-0.330515409	PASS
MAPK6	15	51952106	52067372	-0.423772929	PASS
MAPK7	17	19377721	19383544	0.06854245	PASS
MAPK8	10	48306639	48439360	-0.389033546	PASS
MAPK8IP	11	45885651	45906465	0.059795455	PASS
MAPK8IP2	22	50600685	50613981	-0.953096644	PASS
MAPK8IP3	16	1706183	1770317	0.053595371	PASS
MAPK9	5	180233143	180292099	0.165341871	suppress_segment_too_large
MAPKAP1	9	125437393	125707234	0.073960965	PASS
MAPKAPK	1	206684944	206734283	-0.204996646	suppress_segment_too_large
MAPKAPK	3	50611520	50649297	-0.727808231	PASS
MAPKAPK	12	111841978	111902238	0.028722739	PASS
MAPKBP1	15	41774434	41827855	-0.423772929	PASS
MAPRE1	20	32819893	32850405	-0.172056771	suppress_segment_too_large
MAPRE2	18	34976928	35143470	-0.330515409	PASS
MAPRE3	2	26970612	27027196	0.034263343	PASS
MAPT	17	45894382	46028334	0.051798665	PASS
MARC1	1	220786759	220819657	-0.204996646	suppress_segment_too_large
MARC2	1	220748225	220784815	-0.204996646	suppress_segment_too_large
March1	4	163524298	164384050	0.142431244	suppress_segment_too_large
March10	17	62701314	62808344	0.051798665	PASS
March11	5	16067139	16180762	0.073527871	PASS
March2	19	8413270	8439017	-0.071973357	PASS
March3	5	126867714	127030808	-0.393084436	PASS
March4	2	216257865	216372027	0.011001208	PASS
March5	10	92291163	92353964	-0.414937136	PASS
March6	5	10353703	10440388	0.073527871	PASS

March7	2	159712457	159771027	0.054749241	PASS
March8	10	45454585	45594906	-0.389033546	PASS
March9	12	57755098	57760407	-0.743220499	PASS
MARCKS	6	113857362	113863471	-0.355603029	PASS
MARCKSI	1	32333832	32336379	0.048749694	PASS
MARCO	2	118942166	118994660	-0.359440172	PASS
MARF1	16	15594386	15643166	0.053595371	PASS
MARK1	1	220528183	220664461	-0.204996646	suppress_segment_too_large
MARK2	11	63838928	63911019	0.064535884	PASS
MARK3	14	103385392	103503831	-0.155273506	suppress_segment_too_large
MARK4	19	45079288	45305283	0.002743503	PASS
MARS	12	57475445	57517569	-0.743220499	PASS
MARS2	2	197705369	197708387	0.011001208	PASS
MARVELI	10	97713173	97718152	-0.414937136	PASS
MARVELI	5	69415065	69444330	-0.393084436	PASS
MARVELI	16	71626161	71642114	-0.423061015	PASS
MAS1	6	159906690	159916530	0.033894706	PASS
MAS1L	6	29486697	29487956	0.069043418	PASS
MASP1	3	187217285	187292022	0.02267528	PASS
MASP2	1	11026523	11047233	0.364796772	PASS
MAST1	19	12833951	12874951	-0.069222905	PASS
MAST2	1	45786987	46036124	-0.736943052	PASS
MAST3	19	18097793	18151692	-0.069222905	PASS
MAST4	5	66596361	67169595	-0.393084436	PASS
MASTL	10	27154824	27186924	0.075711544	PASS
MAT1A	10	80271820	80289684	0.032351597	PASS
MAT2A	2	85539165	85545280	0.064122364	PASS
MAT2B	5	163503114	163519336	0.165341871	suppress_segment_too_large
MATK	19	3777970	3802129	-0.071973357	PASS
MATN1	1	30711277	30723587	0.048749694	PASS
MATN2	8	97868840	98036716	0.355469066	suppress_segment_too_large
MATN3	2	19992111	20012694	0.034263343	PASS
MATN4	20	45293445	45308529	-0.172056771	suppress_segment_too_large
MATR3	5	139273752	139331677	-0.393084436	PASS
MAU2	19	19320681	19358755	-0.069222905	PASS
MAVS	20	3846799	3876123	-0.172056771	suppress_segment_too_large
MAX	14	65006174	65102695	0.053252507	PASS
MAZ	16	29806106	29811164	0.053595371	PASS
MB	22	35606764	35637951	-0.740245994	PASS
MB21D2	3	192796815	192918161	0.02267528	PASS
MBD1	18	50266882	50281774	-0.330515409	PASS
MBD2	18	54151601	54224788	-0.330515409	PASS
MBD3	19	1573596	1592801	-0.071973357	PASS
MBD3L1	19	8832398	8843340	-0.071973357	PASS
MBD3L2	19	7049321	7051735	-0.071973357	PASS
MBD3L2B	19	7018969	7021450	-0.071973357	PASS
MBD3L3	19	7056209	7058640	-0.071973357	PASS
MBD3L4	19	7037748	7040179	-0.071973357	PASS
MBD3L5	19	7030578	7033011	-0.071973357	PASS
MBD4	3	129430944	129440179	0.06434429	PASS
MBD5	2	148021011	148516971	-0.30549516	PASS
MBD6	12	57520710	57530148	-0.743220499	PASS
MBIP	14	36298558	36320676	0.053252507	PASS
MBL2	10	52765380	52771700	-0.389033546	PASS

MBLAC1	7	100126694	100128498	-0.710463272	PASS
MBLAC2	5	90458203	90474768	-0.393084436	PASS
MBNL1	3	152243828	152465780	0.02267528	PASS
MBNL2	13	97221434	97394120	-0.384313056	PASS
MBNL3	23	132369317	132489968	0.158844052	PASS
MBOAT1	6	20102145	20212399	0.069043418	PASS
MBOAT2	2	8852690	9003813	0.034263343	PASS
MBOAT4	8	30131824	30144686	-0.311940419	PASS
MBOAT7	19	54173412	54189882	0.142581352	PASS
MBP	18	76978827	77133683	-0.330515409	PASS
MBTD1	17	51177425	51260163	0.051798665	PASS
MBTPS1	16	84053761	84116906	-0.423061015	PASS
MBTPS2	23	21839636	21885424	0.158844052	PASS
MC1R	16	89912119	89920977	-0.423061015	PASS
MC2R	18	13882044	13915707	0.044197172	PASS
MC3R	20	56248732	56249815	-0.172056771	suppress_segment_too_large
MC4R	18	60371062	60372775	-0.330515409	PASS
MC5R	18	13824149	13827323	0.044197172	PASS
MCAM	11	119308529	119321521	-0.431650509	PASS
MCAT	22	43132206	43143394	-0.740245994	PASS
MCC	5	113022099	113488830	-0.393084436	PASS
MCCC1	3	183015218	183116075	0.02267528	PASS
MCCC2	5	71587288	71658704	-0.393084436	PASS
MCCD1	6	31528717	31530232	0.028532667	PASS
MCEE	2	71109684	71130239	-0.46122572	PASS
MCEMP1	19	7676628	7679826	-0.071973357	PASS
MCF2	23	139581770	139708227	0.158844052	PASS
MCF2L	13	112894378	113099739	-0.426822582	PASS
MCF2L2	3	183178043	183428778	0.02267528	PASS
MCFD2	2	46901870	46941855	0.034263343	PASS
MCHR1	22	40678750	40682814	-0.740245994	PASS
MCHR2	6	99919910	99994247	-0.355603029	PASS
MCIDAS	5	55219614	55227315	-0.284712224	PASS
MCL1	1	150574551	150579738	0.079255572	PASS
MCM10	10	13161554	13211104	0.075711544	PASS
MCM2	3	127598223	127622436	0.06434429	PASS
MCM3	6	52264009	52284881	0.239805577	suppress_segment_too_large
MCM3AP	21	46235126	46286297	0.209983559	PASS
MCM4	8	47960185	47978160	0.182873287	suppress_segment_too_large
MCM5	22	35400063	35425430	-0.740245994	PASS
MCM6	2	135839626	135876426	-0.359440172	PASS
MCM7	7	100092728	100101940	-0.710463272	PASS
MCM8	20	5950652	5998977	-0.172056771	suppress_segment_too_large
MCM9	6	118813442	118935162	-0.355603029	PASS
MCMBP	10	119829404	119892556	0.073090211	PASS
MCMDC2	8	66870749	66922048	0.182873287	suppress_segment_too_large
MCOLN1	19	7522626	7534009	-0.071973357	PASS
MCOLN2	1	84925583	84997113	0.587598296	PASS
MCOLN3	1	85018082	85048499	0.587598296	PASS
MCPH1	8	6406592	6648504	-0.311940419	PASS
MCRIP1	17	81822361	81833302	0.051798665	PASS
MCRIP2	16	636817	648474	0.053595371	PASS
MCRS1	12	49556544	49568153	-0.743220499	PASS
MCTP1	5	94703741	95284575	-0.393084436	PASS

MCTP2	15	94231538	94483952	-0.759380635	PASS
MCTS1	23	120594010	120621074	0.158844052	PASS
MCTS2P	20	31547412	31548081	-0.172056771	suppress_segment_too_large
MCU	10	72692131	72887694	0.032351597	PASS
MCUB	4	109560205	109688726	-0.677982248	PASS
MCUR1	6	13786557	13814568	0.069043418	PASS
MDC1	6	30699807	30717889	0.069043418	PASS
MDFI	6	41636882	41654246	0.028532667	PASS
MDFIC	7	114922154	115019202	-0.712149877	PASS
MDFIC2	3	70196894	70312726	-0.727808231	PASS
MDGA1	6	37630679	37699306	0.028532667	PASS
MDGA2	14	46840092	47674954	0.053252507	PASS
MDH1	2	63588609	63607197	-0.46122572	PASS
MDH1B	2	206737763	206765547	0.011001208	PASS
MDH2	7	76048051	76067508	-0.701511252	PASS
MDK	11	46380756	46383837	0.059795455	PASS
MDM1	12	68272443	68332381	-0.743220499	PASS
MDM2	12	68808176	68850686	-0.743220499	PASS
MDM4	1	204516379	204558120	-0.204996646	suppress_segment_too_large
MDN1	6	89642499	89819723	-0.355603029	PASS
MDP1	14	24213937	24216070	0.053252507	PASS
ME1	6	83210389	83431071	-0.355603029	PASS
ME2	18	50878734	50954257	-0.330515409	PASS
ME3	11	86441108	86672636	0.064535884	PASS
MEA1	6	43011143	43016868	0.028532667	PASS
MEAF6	1	37492575	37514774	0.048749694	PASS
MECOM	3	169083499	169663618	0.02267528	PASS
MECP2	23	154021573	154137103	0.158844052	PASS
MECR	1	29192873	29230942	0.048749694	PASS
MED1	17	39404285	39451286	0.041294512	PASS
MED10	5	6371881	6378594	0.073527871	PASS
MED11	17	4731428	4733610	0.06854245	PASS
MED12	23	71118556	71142454	0.158844052	PASS
MED12L	3	151085697	151437072	0.02267528	PASS
MED13	17	61942605	62065282	0.051798665	PASS
MED13L	12	115953872	116277719	0.028722739	PASS
MED14	23	40648306	40735858	0.158844052	PASS
MED15	22	20495913	20587632	-0.740245994	PASS
MED16	19	867630	893218	-0.071973357	PASS
MED17	11	93784227	93814963	0.064535884	PASS
MED18	1	28329002	28335967	0.048749694	PASS
MED19	11	57703714	57712323	0.27006553	suppress_segment_too_large
MED20	6	41905354	41921139	0.028532667	PASS
MED21	12	27022546	27066343	0.49032213	suppress_segment_too_large
MED22	9	133338323	133348131	0.073960965	PASS
MED23	6	131573966	131628229	-0.304168115	PASS
MED24	17	40019097	40061215	0.041294512	PASS
MED25	19	49818279	49840383	0.002743503	PASS
MED26	19	16574907	16629062	-0.069222905	PASS
MED27	9	131860107	132079908	0.073960965	PASS
MED28	4	17614631	17634105	-0.358623662	PASS
MED29	19	39391303	39400637	0.048917043	PASS
MED30	8	117520713	117540262	0.493344802	suppress_segment_too_large
MED31	17	6643315	6651634	0.06854245	PASS

MED4	13	48053323	48095131	-0.398748891	PASS
MED6	14	70581257	70600690	0.053252507	PASS
MED7	5	157137412	157159019	0.165341871	suppress_segment_too_large
MED8	1	43383917	43389808	-0.736943052	PASS
MED9	17	17476986	17493226	0.06854245	PASS
MEDAG	13	30906191	30925572	-0.398748891	PASS
MEF2A	15	99565417	99716466	-0.759380635	PASS
MEF2B	19	19145568	19170289	-0.069222905	PASS
MEF2C	5	88717117	88904257	-0.393084436	PASS
MEF2D	1	156463727	156500828	0.088103245	PASS
MEFV	16	3242028	3256627	0.053595371	PASS
MEGF10	5	127290831	127465737	-0.393084436	PASS
MEGF11	15	65895079	66253747	-0.759380635	PASS
MEGF6	1	3489920	3611495	-0.358281697	PASS
MEGF8	19	42325609	42378769	0.048917043	PASS
MEGF9	9	120600813	120714470	0.073960965	PASS
MEI1	22	41699499	41799456	-0.740245994	PASS
MEI4	6	77650274	77927028	-0.250122709	PASS
MEIG1	10	14959439	14988050	0.075711544	PASS
MEIKIN	5	131806993	131945698	-0.393084436	PASS
MEIOB	16	1833987	1884294	0.053595371	PASS
MEIOC	17	44656404	44690308	0.051798665	PASS
MEIS1	2	66433452	66573869	-0.46122572	PASS
MEIS2	15	36889204	37101299	-0.423772929	PASS
MEIS3	19	47403124	47419523	0.002743503	PASS
MELK	9	36572862	36677683	0.073960965	PASS
MELTF	3	196988621	197029816	0.02267528	PASS
MEMO1	2	31865060	32011230	0.034263343	PASS
MEN1	11	64803510	64811294	0.064535884	PASS
MEOX1	17	43640388	43661954	0.051798665	PASS
MEOX2	7	15611212	15686812	-0.72421718	PASS
MEP1A	6	46793390	46839782	0.239805577	suppress_segment_too_large
MEP1B	18	32185069	32220404	-0.330515409	PASS
MEPCE	7	100428790	100434126	-0.710463272	PASS
MEPE	4	87821411	87846817	-0.677982248	PASS
MERTK	2	111898479	112029561	0.040971718	PASS
MESD	15	80946289	80989878	-0.759380635	PASS
MESP1	15	89748661	89751310	-0.759380635	PASS
MESP2	15	89760591	89778754	-0.759380635	PASS
MEST	7	130486171	130506465	-0.712149877	PASS
MET	7	116672390	116798386	-0.712149877	PASS
METAP1	4	98995620	99062813	-0.677982248	PASS
METAP1D	2	171999583	172082430	0.033541467	PASS
METAP2	12	95473520	95515839	0.028722739	PASS
METRN	16	715115	719655	0.053595371	PASS
METRNL	17	83079691	83095119	0.051798665	PASS
METTL1	12	57768471	57772793	-0.743220499	PASS
METTL11I	1	170146001	170167790	0.088103245	PASS
METTL13	1	171781664	171814023	0.088103245	PASS
METTL14	4	118685368	118715433	-0.754119944	PASS
METTL15	11	28108248	28527041	-0.359426047	PASS
METTL16	17	2405562	2511891	0.06854245	PASS
METTL17	14	20989770	20997035	0.053252507	PASS
METTL18	1	169792529	169794966	0.088103245	PASS

METTL21	2	207580631	207625928	0.011001208	PASS
METTL21	13	102685744	102694504	-0.384313056	PASS
METTL22	16	8621683	8649654	0.053595371	PASS
METTL23	17	76726830	76733936	0.051798665	PASS
METTL24	6	110245928	110358272	-0.355603029	PASS
METTL25	12	82358497	82479236	0.271127429	suppress_segment_too_large
METTL26	16	634427	636366	0.053595371	PASS
METTL27	7	73834590	73842535	-0.701511252	PASS
METTL2A	17	62423867	62450822	0.051798665	PASS
METTL2B	7	128476729	128506602	-0.712149877	PASS
METTL3	14	21498133	21511375	0.053252507	PASS
METTL4	18	2537525	2571509	0.044197172	PASS
METTL5	2	169810081	169824931	0.033541467	PASS
METTL6	3	15381275	15440566	0.06149513	PASS
METTL7A	12	50923472	50932517	-0.743220499	PASS
METTL7B	12	55681546	55684611	-0.743220499	PASS
METTL8	2	171317405	171434802	0.033541467	PASS
METTL9	16	21597218	21657473	0.053595371	PASS
MEX3A	1	156072013	156081998	0.088103245	PASS
MEX3B	15	82041778	82046141	-0.759380635	PASS
MEX3C	18	51174550	51218304	-0.330515409	PASS
MEX3D	19	1554669	1568058	-0.071973357	PASS
MFAP1	15	43804492	43824802	-0.423772929	PASS
MFAP2	1	16974502	16980835	0.048749694	PASS
MFAP3	5	154038906	154220478	-0.393084436	PASS
MFAP3L	4	169986597	170033031	0.142431244	suppress_segment_too_large
MFAP4	17	19383442	19387240	0.06854245	PASS
MFAP5	12	8637346	8662888	0.505438545	PASS
MFF	2	227325151	227357836	0.011001208	PASS
MFGE8	15	88898683	88913411	-0.759380635	PASS
MFHAS1	8	8783354	8893645	-0.311940419	PASS
MFN1	3	179347692	179394931	0.02267528	PASS
MFN2	1	11980181	12013514	0.364796772	PASS
MFNG	22	37469063	37486401	-0.740245994	PASS
MFRP	11	119338942	119346673	-0.431650509	PASS
MFSD1	3	158732198	158829719	0.02267528	PASS
MFSD10	4	2930561	2934859	-0.358623662	PASS
MFSD11	17	76735865	76781449	0.051798665	PASS
MFSD12	19	3538261	3574290	-0.071973357	PASS
MFSD13A	10	102461395	102477045	-0.414937136	PASS
MFSD14A	1	100038097	100083377	0.079255572	PASS
MFSD14B	9	94374551	94461042	0.073960965	PASS
MFSD14C	9	96887373	97013708	0.073960965	PASS
MFSD2A	1	39955112	39969968	0.048749694	PASS
MFSD2B	2	24010081	24063321	0.034263343	PASS
MFSD3	8	144509074	144511213	0.699132336	PASS
MFSD4A	1	205568885	205602918	-0.204996646	suppress_segment_too_large
MFSD4B	6	111259348	111271167	-0.355603029	PASS
MFSD5	12	53251251	53254405	-0.743220499	PASS
MFSD6	2	190408355	190509205	0.011001208	PASS
MFSD6L	17	8797162	8799349	0.06854245	PASS
MFSD8	4	127917732	127966034	0.142431244	suppress_segment_too_large
MFSD9	2	102715840	102736888	0.064122364	PASS
MGA	15	41621224	41773081	-0.423772929	PASS

MGAM	7	141907813	142106747	-0.712149877	PASS
MGAM2	7	142111749	142222324	-0.712149877	PASS
MGARP	4	139266163	139280338	0.142431244	suppress_segment_too_large
MGAT1	5	180784782	180815652	0.165341871	suppress_segment_too_large
MGAT2	14	49620795	49623481	0.053252507	PASS
MGAT3	22	39457344	39492194	-0.740245994	PASS
MGAT4A	2	98619106	98731126	0.064122364	PASS
MGAT4B	5	179797597	179806952	0.165341871	suppress_segment_too_large
MGAT4C	12	85955666	86838904	0.271127429	suppress_segment_too_large
MGAT4D	4	140442262	140498377	0.142431244	suppress_segment_too_large
MGAT5	2	134119983	134454621	-0.359440172	PASS
MGAT5B	17	76868456	76950393	0.051798665	PASS
MGLL	3	127689062	128052190	0.06434429	PASS
MGME1	20	17968913	17991122	-0.172056771	suppress_segment_too_large
MGMT	10	129467184	129768007	0.073090211	PASS
MGP	12	14881181	14885926	0.49032213	suppress_segment_too_large
MGRN1	16	4616493	4690974	0.053595371	PASS
MGST1	12	16347142	16609259	0.49032213	suppress_segment_too_large
MGST2	4	139665768	139740745	0.142431244	suppress_segment_too_large
MGST3	1	165630861	165661796	0.088103245	PASS
MIA	19	40771648	40777490	0.048917043	PASS
MIA-RAB	19	40771648	40796943	0.048917043	PASS
MIA2	14	39230231	39388513	0.053252507	PASS
MIA3	1	222618086	222668012	-0.204996646	suppress_segment_too_large
MIB1	18	21704957	21870957	-0.330515409	PASS
MIB2	1	1615415	1630610	-0.358281697	PASS
MICA	6	31399784	31415315	0.028532667	PASS
MICAL1	6	109444062	109465968	-0.355603029	PASS
MICAL2	11	12094008	12359144	-0.39835217	PASS
MICAL3	22	17787649	18024559	-0.740245994	PASS
MICALL1	22	37905657	37942822	-0.740245994	PASS
MICALL2	7	1428465	1459502	-0.72421718	PASS
MICB	6	31494881	31511124	0.028532667	PASS
MICU1	10	72367327	72626191	0.032351597	PASS
MICU2	13	21492691	21604214	-0.398748891	PASS
MICU3	8	17027238	17122644	-0.311940419	PASS
MID1	23	10445310	10833654	0.158844052	PASS
MID1IP1	23	38801432	38806537	0.158844052	PASS
MID2	23	107825755	107927193	0.158844052	PASS
MIDN	19	1248553	1259140	-0.071973357	PASS
MIEF1	22	39499432	39518132	-0.740245994	PASS
MIEF2	17	18260534	18266552	0.06854245	PASS
MIEN1	17	39728496	39730787	0.041294512	PASS
MIER1	1	66924895	66988619	0.052232535	PASS
MIER2	19	301444	344815	0.069117079	PASS
MIER3	5	56919602	56971675	-0.284712224	PASS
MIF	22	23894004	23895227	-0.740245994	PASS
MIF4GD	17	75266228	75271227	0.051798665	PASS
MIGA1	1	77779624	77879539	0.052232535	PASS
MIGA2	9	129036621	129072082	0.073960965	PASS
MIIP	1	12019466	12032045	0.364796772	PASS
MILR1	17	64449037	64468643	0.051798665	PASS
MINDY1	1	150996086	151008375	0.079255572	PASS
MINDY2	15	58771192	58861900	-0.759380635	PASS

MINDY3	10	15778170	15860520	0.075711544	PASS
MINDY4	7	30771417	30892387	-0.72421718	PASS
MINDY4B	3	150871045	150905439	0.02267528	PASS
MINK1	17	4833388	4898061	0.06854245	PASS
MINOS1	1	19484403	19629821	0.048749694	PASS
MINOS1-N	1	19597067	19656927	0.048749694	PASS
MINPP1	10	87504875	87553460	-2.417109027	suppress_large_homdel
MIOS	7	7566872	7608929	-0.72421718	PASS
MIOX	22	50486784	50490648	-0.953096644	PASS
MIP	12	56449502	56469166	-0.743220499	PASS
MIPEP	13	23730189	23889419	-0.398748891	PASS
MIPOL1	14	37197913	37552361	0.053252507	PASS
MIS12	17	5486285	5490814	0.06854245	PASS
MIS18A	21	32268219	32279069	0.209983559	PASS
MIS18BP1	14	45203190	45253540	0.053252507	PASS
MISP	19	751126	764318	-0.071973357	PASS
MISP3	19	14072536	14075062	-0.069222905	PASS
MITD1	2	99161427	99181058	0.064122364	PASS
MITF	3	69739435	69968337	-0.727808231	PASS
MIXL1	1	226223618	226227054	-0.204996646	suppress_segment_too_large
MKI67	10	128096659	128126385	0.073090211	PASS
MKKS	20	10401009	10434222	-0.172056771	suppress_segment_too_large
MKLN1	7	131110096	131496636	-0.712149877	PASS
MKNK1	1	46557408	46616843	-0.736943052	PASS
MKNK2	19	2037465	2051244	-0.071973357	PASS
MKRN1	7	140453040	140479569	-0.712149877	PASS
MKRN2	3	12557014	12583713	0.06149513	PASS
MKRN2OS	3	12514934	12561059	0.06149513	PASS
MKRN3	15	23565674	23630075	-0.423772929	PASS
MKS1	17	58205437	58219605	0.051798665	PASS
MKX	10	27672875	27746060	0.075711544	PASS
MLANA	9	5890802	5910606	0.073960965	PASS
MLC1	22	50059391	50085902	-0.953096644	PASS
MLEC	12	120686869	120701864	0.028722739	PASS
MLF1	3	158571163	158607252	0.02267528	PASS
MLF2	12	6747996	6767475	-0.015029783	PASS
MLH1	3	36993332	37050918	-0.727808231	PASS
MLH3	14	75013764	75051532	-0.155273506	suppress_segment_too_large
MLIP	6	53929982	54266280	0.239805577	suppress_segment_too_large
MLKL	16	74671855	74700960	-0.423061015	PASS
MLLT1	19	6210379	6279948	-0.071973357	PASS
MLLT10	10	21524675	21743630	0.075711544	PASS
MLLT11	1	151057758	151068497	0.079255572	PASS
MLLT3	9	20341665	20622543	0.073960965	PASS
MLLT6	17	38705542	38729803	0.041294512	PASS
MLN	6	33794673	33804011	0.028532667	PASS
MLNR	13	49220338	49222377	-0.384313056	PASS
MLPH	2	237485428	237555318	0.011001208	PASS
MLST8	16	2204248	2209416	0.053595371	PASS
MLX	17	42567068	42573239	0.041294512	PASS
MLXIP	12	122078722	122147347	0.028722739	PASS
MLXIPL	7	73593194	73624543	-0.701511252	PASS
MLYCD	16	83899126	83927026	-0.423061015	PASS
MMAA	4	145599042	145660035	0.142431244	suppress_segment_too_large

MMAB	12	109553737	109573874	0.028722739	PASS
MMACHC	1	45500053	45513382	-0.736943052	PASS
MMADHC	2	149569634	149587816	-0.30549516	PASS
MMD	17	55392613	55421992	0.051798665	PASS
MMD2	7	4905989	4959213	-0.72421718	PASS
MME	3	155024124	155183729	0.02267528	PASS
MMEL1	1	2590639	2632990	-0.358281697	PASS
MMGT1	23	135962070	135974063	0.158844052	PASS
MMP1	11	102789920	102798160	0.32805343	suppress_segment_too_large
MMP10	11	102770503	102780628	0.32805343	suppress_segment_too_large
MMP11	22	23768226	23784316	-0.740245994	PASS
MMP12	11	102862736	102875034	0.32805343	suppress_segment_too_large
MMP13	11	102942995	102955734	0.32805343	suppress_segment_too_large
MMP14	14	22836557	22849027	0.053252507	PASS
MMP15	16	58025566	58046901	-0.423061015	PASS
MMP16	8	88032009	88328025	0.617295349	suppress_segment_too_large
MMP17	12	131828393	131851783	0.028722739	PASS
MMP19	12	55835433	55842966	-0.743220499	PASS
MMP2	16	55389700	55506691	-0.423061015	PASS
MMP20	11	102576835	102625332	0.32805343	suppress_segment_too_large
MMP21	10	125766453	125775821	0.073090211	PASS
MMP24	20	35226654	35277000	-0.172056771	suppress_segment_too_large
MMP24OS	20	35201745	35278131	-0.172056771	suppress_segment_too_large
MMP25	16	3046681	3060726	0.053595371	PASS
MMP26	11	4704927	4992429	-0.39835217	PASS
MMP27	11	102691487	102705806	0.32805343	suppress_segment_too_large
MMP28	17	35756249	35795707	0.041294512	PASS
MMP3	11	102835801	102843803	0.32805343	suppress_segment_too_large
MMP7	11	102520508	102530753	0.32805343	suppress_segment_too_large
MMP8	11	102711795	102727050	0.32805343	suppress_segment_too_large
MMP9	20	46008908	46016561	-0.172056771	suppress_segment_too_large
MMRN1	4	89879532	89954629	-0.677982248	PASS
MMRN2	10	86935540	86969481	-0.461254852	PASS
MMS19	10	97458324	97498794	-0.414937136	PASS
MMS22L	6	97142161	97283217	-0.355603029	PASS
MN1	22	27748277	27801498	-0.740245994	PASS
MNAT1	14	60734742	60969953	0.053252507	PASS
MND1	4	153344649	153415118	0.142431244	suppress_segment_too_large
MNDA	1	158831317	158849506	0.088103245	PASS
MNS1	15	56421544	56465137	-0.759380635	PASS
MNT	17	2384060	2401118	0.06854245	PASS
MNX1	7	156994051	157010651	-0.77630473	PASS
MOAP1	14	93182196	93184928	-0.155273506	suppress_segment_too_large
MOB1A	2	74152528	74178898	-0.46122572	PASS
MOB1B	4	70902326	71022449	0.115781418	suppress_segment_too_large
MOB2	11	1469457	1501247	-0.39835217	PASS
MOB3A	19	2071038	2096673	-0.071973357	PASS
MOB3B	9	27325209	27529781	0.073960965	PASS
MOB3C	1	46607715	46616891	-0.736943052	PASS
MOB4	2	197515571	197553699	0.011001208	PASS
MOBP	3	39467198	39529479	-0.727808231	PASS
MOCOS	18	36187519	36272157	-0.330515409	PASS
MOCS1	6	39899578	39934551	0.028532667	PASS
MOCS2	5	53095679	53110063	-0.284712224	PASS

MOCS3	20	50958826	50963931	-0.172056771	suppress_segment_too_large
MOG	6	29656981	29672372	0.069043418	PASS
MOGAT1	2	222671786	222709930	0.011001208	PASS
MOGAT2	11	75717819	75732958	0.064535884	PASS
MOGAT3	7	101195007	101201038	-0.712149877	PASS
MOGS	2	74461057	74465410	-0.46122572	PASS
MOK	14	102224500	102305200	-0.155273506	suppress_segment_too_large
MON1A	3	49907160	49930173	-0.727808231	PASS
MON1B	16	77190835	77202405	-0.423061015	PASS
MON2	12	62466817	62600479	-0.743220499	PASS
MORC1	3	108958239	109118142	0.22470242	PASS
MORC2	22	30925130	30968298	-0.740245994	PASS
MORC3	21	36320189	36386148	0.209983559	PASS
MORC4	23	106813871	107000244	0.158844052	PASS
MORF4L1	15	78810487	78898133	-0.759380635	PASS
MORF4L2	23	103675496	103688158	0.158844052	PASS
MORN1	1	2321253	2391707	-0.358281697	PASS
MORN2	2	38875962	38929072	0.034263343	PASS
MORN3	12	121648742	121672631	0.028722739	PASS
MORN4	10	97614553	97633500	-0.414937136	PASS
MORN5	9	122159908	122200088	0.073960965	PASS
MOS	8	56112942	56113982	0.182873287	suppress_segment_too_large
MOSMO	16	22007638	22087534	0.053595371	PASS
MOSPD1	23	134887626	134915267	0.158844052	PASS
MOSPD2	23	14873441	14922327	0.158844052	PASS
MOSPD3	7	100612102	100615384	-0.710463272	PASS
MOV10	1	112673141	112700746	0.079255572	PASS
MOV10L1	22	50089879	50161690	-0.953096644	PASS
MOXD1	6	132296055	132401545	-0.304168115	PASS
MPC1	6	166364919	166383013	0.033894706	PASS
MPC1L	23	40623566	40624136	0.158844052	PASS
MPC2	1	167916729	167937040	0.088103245	PASS
MPDU1	17	7583529	7592789	0.06854245	PASS
MPDZ	9	13105704	13279590	0.073960965	PASS
MPEG1	11	59208510	59212951	0.27006553	suppress_segment_too_large
MPG	16	77007	85853	0.053595371	PASS
MPHOSPH	2	71130314	71150101	-0.46122572	PASS
MPHOSPH	16	82147798	82170226	-0.423061015	PASS
MPHOSPH	13	19633681	19673459	-0.398748891	PASS
MPHOSPH	12	123152320	123244014	0.028722739	PASS
MPI	15	74890005	74902219	-0.759380635	PASS
MPIG6B	6	31718594	31726714	0.028532667	PASS
MPL	1	43337849	43352772	-0.736943052	PASS
MPLKIP	7	40126023	40134652	-0.72421718	PASS
MPND	19	4343527	4360086	-0.071973357	PASS
MPO	17	58269856	58280935	0.051798665	PASS
MPP1	23	154778684	154821007	0.158844052	PASS
MPP2	17	43875357	43909711	0.051798665	PASS
MPP3	17	43800799	43833170	0.051798665	PASS
MPP4	2	201644870	201698694	0.011001208	PASS
MPP5	14	67241109	67335819	0.053252507	PASS
MPP6	7	24573268	24694193	-0.72421718	PASS
MPP7	10	28050993	28334486	0.075711544	PASS
MPPE1	18	11882622	11909223	0.044197172	PASS

MPPED1	22	43411196	43507848	-0.740245994	PASS
MPPED2	11	30384493	30586872	-0.359426047	PASS
MPRIP	17	17042545	17217679	0.06854245	PASS
MPST	22	37019635	37029822	-0.740245994	PASS
MPV17	2	27309492	27325680	0.034263343	PASS
MPV17L	16	15395754	15413268	0.053595371	PASS
MPV17L2	19	18193182	18196948	-0.069222905	PASS
MPZ	1	161304735	161309972	0.088103245	PASS
MPZL1	1	167721192	167791919	0.088103245	PASS
MPZL2	11	118253403	118264536	-0.431650509	PASS
MPZL3	11	118226690	118252350	-0.431650509	PASS
MR1	1	181033425	181061938	0.088103245	PASS
MRAP	21	32291813	32314784	0.209983559	PASS
MRAP2	6	84033756	84090881	-0.355603029	PASS
MRAS	3	138347648	138405534	0.06434429	PASS
MRC1	10	17809344	17911170	0.075711544	PASS
MRC2	17	62627401	62693597	0.051798665	PASS
MRE11	11	94415578	94493908	0.064535884	PASS
MREG	2	215942805	216034096	0.011001208	PASS
MRFAP1	4	6640091	6642745	-0.358623662	PASS
MRFAP1L	4	6707701	6709880	-0.358623662	PASS
MRGBP	20	62796453	62801738	-0.172056771	suppress_segment_too_large
MRGPRD	11	68980021	68980986	0.064535884	PASS
MRGPRE	11	3227698	3232386	-0.39835217	PASS
MRGPRF	11	69004395	69013409	0.064535884	PASS
MRGPRG	11	3217944	3218813	-0.39835217	PASS
MRGPRX1	11	18933813	18939507	-0.39835217	PASS
MRGPRX2	11	19054455	19060681	-0.39835217	PASS
MRGPRX3	11	18120955	18138480	-0.39835217	PASS
MRGPRX4	11	18172837	18174280	-0.39835217	PASS
MRI1	19	13764532	13774282	-0.069222905	PASS
MRLN	10	59736692	59756041	0.032351597	PASS
MRM1	17	36601572	36608971	0.041294512	PASS
MRM2	7	2234231	2242198	-0.72421718	PASS
MRM3	17	782273	792509	0.06854245	PASS
MRNIP	5	179835133	179862173	0.165341871	suppress_segment_too_large
MRO	18	50795120	50825402	-0.330515409	PASS
MROH1	8	144148016	144261940	0.699132336	PASS
MROH2A	2	233775679	233833423	0.011001208	PASS
MROH2B	5	40998017	41071342	-0.284712224	PASS
MROH6	8	143566187	143572971	0.699132336	PASS
MROH7	1	54641754	54710266	-0.736943052	PASS
MROH7-T	1	54641786	54742308	-0.736943052	PASS
MROH8	20	37101226	37179588	-0.172056771	suppress_segment_too_large
MROH9	1	170935471	171064765	0.088103245	PASS
MRPL1	4	77862520	77952790	-0.677982248	PASS
MRPL10	17	47823272	47831534	0.051798665	PASS
MRPL11	11	66435075	66466738	0.064535884	PASS
MRPL12	17	81703357	81707526	0.051798665	PASS
MRPL13	8	120380761	120445402	0.493344802	suppress_segment_too_large
MRPL14	6	44113454	44127457	0.028532667	PASS
MRPL15	8	54135210	54147901	0.182873287	suppress_segment_too_large
MRPL16	11	59806135	59810872	0.27006553	suppress_segment_too_large
MRPL17	11	6680782	6683401	-0.39835217	PASS

MRPL18	6	159789812	159798436	0.033894706	PASS
MRPL19	2	75646783	75690851	-0.46122572	PASS
MRPL2	6	43054029	43059806	0.028532667	PASS
MRPL20	1	1401908	1407313	-0.358281697	PASS
MRPL21	11	68891276	68903835	0.064535884	PASS
MRPL22	5	154941070	154969411	-0.393084436	PASS
MRPL23	11	1947278	1984522	-0.39835217	PASS
MRPL24	1	156737303	156741590	0.088103245	PASS
MRPL27	17	50367857	50373214	0.051798665	PASS
MRPL28	16	366969	371289	0.053595371	PASS
MRPL3	3	131462212	131502983	0.06434429	PASS
MRPL30	2	99181079	99197626	0.064122364	PASS
MRPL32	7	42932200	42948958	-0.72421718	PASS
MRPL33	2	27771717	27988087	0.034263343	PASS
MRPL34	19	17292609	17306843	-0.069222905	PASS
MRPL35	2	86199355	86213794	0.064122364	PASS
MRPL36	5	1798386	1801366	0.073527871	PASS
MRPL37	1	54184041	54225464	-0.736943052	PASS
MRPL38	17	75898643	75905413	0.051798665	PASS
MRPL39	21	25585656	25607517	0.209983559	PASS
MRPL4	19	10251901	10260045	-0.107594294	PASS
MRPL40	22	19431902	19436075	-0.740245994	PASS
MRPL41	9	137551199	137552555	0.073960965	PASS
MRPL42	12	93467488	93516213	0.028722739	PASS
MRPL43	10	100969458	100987515	-0.414937136	PASS
MRPL44	2	223957404	223967714	0.011001208	PASS
MRPL45	17	38297023	38323218	0.041294512	PASS
MRPL46	15	88459476	88467419	-0.759380635	PASS
MRPL47	3	179588285	179604654	0.02267528	PASS
MRPL48	11	73787316	73865133	0.064535884	PASS
MRPL49	11	65122183	65127371	0.064535884	PASS
MRPL50	9	101387633	101398614	0.073960965	PASS
MRPL51	12	6491886	6493841	-0.015029783	PASS
MRPL52	14	22829879	22835037	0.053252507	PASS
MRPL53	2	74471958	74473322	-0.46122572	PASS
MRPL54	19	3762664	3768575	-0.071973357	PASS
MRPL55	1	228106679	228109312	-0.204996646	suppress_segment_too_large
MRPL57	13	21176645	21179084	-0.398748891	PASS
MRPL58	17	75012670	75021261	0.051798665	PASS
MRPL9	1	151759643	151763564	0.079255572	PASS
MRPS10	6	42206801	42217865	0.028532667	PASS
MRPS11	15	88467453	88480773	-0.759380635	PASS
MRPS12	19	38930548	38933162	0.048917043	PASS
MRPS14	1	175010789	175023425	0.088103245	PASS
MRPS15	1	36455718	36464437	0.048749694	PASS
MRPS16	10	73248843	73252693	0.032351597	PASS
MRPS17	7	55951819	55956501	-0.701511252	PASS
MRPS18A	6	43671303	43687791	0.028532667	PASS
MRPS18B	6	30617709	30626395	0.069043418	PASS
MRPS18C	4	83455932	83469735	-0.677982248	PASS
MRPS2	9	135499984	135504673	0.073960965	PASS
MRPS21	1	150293720	150308979	0.079255572	PASS
MRPS22	3	139005806	139357223	0.06434429	PASS
MRPS23	17	57834781	57850056	0.051798665	PASS

MRPS24	7	43866558	43869893	-0.72421718	PASS
MRPS25	3	15042460	15065335	0.06149513	PASS
MRPS26	20	3045945	3048254	-0.172056771	suppress_segment_too_large
MRPS27	5	72219409	72320646	-0.393084436	PASS
MRPS28	8	79918717	80030289	0.617295349	suppress_segment_too_large
MRPS30	5	44808925	44820428	-0.284712224	PASS
MRPS31	13	40729135	40771173	-0.398748891	PASS
MRPS33	7	141002610	141015228	-0.712149877	PASS
MRPS34	16	1771890	1773155	0.053595371	PASS
MRPS35	12	27710773	27756295	0.49032213	suppress_segment_too_large
MRPS36	5	69217760	69230129	-0.393084436	PASS
MRPS5	2	95087207	95149434	0.064122364	PASS
MRPS6	21	34073224	34143034	0.209983559	PASS
MRPS7	17	75261674	75266373	0.051798665	PASS
MRPS9	2	105037983	105099960	-0.439572519	PASS
MRRF	9	122264603	122331343	0.073960965	PASS
MRS2	6	24402908	24426194	0.069043418	PASS
MRTFA	22	40410281	40636702	-0.740245994	PASS
MRTFB	16	14071321	14266773	0.053595371	PASS
MRTO4	1	19251539	19260128	0.048749694	PASS
MRVI1	11	10573091	10693988	-0.39835217	PASS
MS4A1	11	60455752	60470760	0.27006553	suppress_segment_too_large
MS4A10	11	60785348	60801305	0.064535884	PASS
MS4A12	11	60492778	60507430	0.27006553	suppress_segment_too_large
MS4A13	11	60515413	60542721	0.27006553	suppress_segment_too_large
MS4A14	11	60378530	60417756	0.27006553	suppress_segment_too_large
MS4A15	11	60756953	60776732	0.064535884	PASS
MS4A18	11	60729304	60744212	0.27006553	suppress_segment_too_large
MS4A2	11	60088261	60098466	0.27006553	suppress_segment_too_large
MS4A3	11	60056587	60071128	0.27006553	suppress_segment_too_large
MS4A4A	11	60185702	60317944	0.27006553	suppress_segment_too_large
MS4A4E	11	60201253	60243088	0.27006553	suppress_segment_too_large
MS4A5	11	60429589	60455214	0.27006553	suppress_segment_too_large
MS4A6A	11	60172014	60184666	0.27006553	suppress_segment_too_large
MS4A6E	11	60334831	60396596	0.27006553	suppress_segment_too_large
MS4A7	11	60378482	60395951	0.27006553	suppress_segment_too_large
MS4A8	11	60699574	60715811	0.27006553	suppress_segment_too_large
MSANTD1	4	3244369	3271738	-0.358623662	PASS
MSANTD2	11	124766498	124800673	-0.431650509	PASS
MSANTD3	9	100427156	100451711	0.073960965	PASS
MSANTD3	9	100442271	100577636	0.073960965	PASS
MSANTD4	11	105995623	106022403	0.32805343	suppress_segment_too_large
MSC	8	71841549	71844468	0.182873287	suppress_segment_too_large
MSGN1	2	17816496	17817101	0.034263343	PASS
MSH2	2	47402969	47663146	0.034263343	PASS
MSH3	5	80654648	80876460	-0.393084436	PASS
MSH4	1	75796882	75913238	0.052232535	PASS
MSH5	6	31739948	31762834	0.028532667	PASS
MSH5-SAI	6	31740020	31764851	0.028532667	PASS
MSH6	2	47695530	47810101	0.034263343	PASS
MSI1	12	120341330	120369180	0.028722739	PASS
MSI2	17	57255851	57684685	0.051798665	PASS
MSL1	17	40122298	40136916	0.041294512	PASS
MSL2	3	136148922	136197241	0.06434429	PASS

MSL3	23	11758159	11775772	0.158844052	PASS
MSLN	16	760762	768865	0.053595371	PASS
MSLNL	16	769428	783370	0.053595371	PASS
MSMB	10	46033307	46046269	-0.389033546	PASS
MSMO1	4	165327623	165343160	0.142431244	suppress_segment_too_large
MSMP	9	35752990	35756613	0.073960965	PASS
MSN	23	65588377	65741931	0.158844052	PASS
MSR1	8	16107878	16567490	-0.311940419	PASS
MSRA	8	10054268	10428891	-0.311940419	PASS
MSRB1	16	1938210	1943326	0.053595371	PASS
MSRB2	10	23095506	23122013	0.075711544	PASS
MSRB3	12	65278643	65491430	-0.743220499	PASS
MSS51	10	73423579	73433561	0.032351597	PASS
MST1	3	49683947	49689501	-0.727808231	PASS
MST1R	3	49887002	49903873	-0.727808231	PASS
MSTN	2	190055697	190062729	0.011001208	PASS
MSTO1	1	155610205	155614967	0.088103245	PASS
MSX1	4	4859666	4863936	-0.358623662	PASS
MSX2	5	174724533	174730893	0.165341871	suppress_segment_too_large
MT1A	16	56638666	56640087	-0.423061015	PASS
MT1B	16	56651899	56653204	-0.423061015	PASS
MT1E	16	56625475	56627112	-0.423061015	PASS
MT1F	16	56657694	56660698	-0.423061015	PASS
MT1G	16	56666731	56668065	-0.423061015	PASS
MT1H	16	56669814	56671129	-0.423061015	PASS
MT1HL1	1	237004103	237004418	-0.287484925	PASS
MT1M	16	56632233	56633986	-0.423061015	PASS
MT1X	16	56682424	56684196	-0.423061015	PASS
MT2A	16	56608199	56609497	-0.423061015	PASS
MT3	16	56589074	56591088	-0.423061015	PASS
MT4	16	56565049	56568957	-0.423061015	PASS
MTA1	14	105419820	105470729	-0.155273506	suppress_segment_too_large
MTA2	11	62593214	62601840	0.064535884	PASS
MTA3	2	42494569	42756947	0.034263343	PASS
MTAP	9	21802543	21937651	0.073960965	PASS
MTBP	8	120445400	120542133	0.493344802	suppress_segment_too_large
MTCH1	6	36968141	36986298	0.028532667	PASS
MTCH2	11	47617315	47642623	0.059795455	PASS
MTCL1	18	8705661	8832778	0.044197172	PASS
MTCP1	23	155061622	155147937	0.158844052	PASS
MTDH	8	97644179	97728770	0.355469066	suppress_segment_too_large
MTERF1	7	91692008	91880720	-0.710463272	PASS
MTERF2	12	106977291	106987166	0.028722739	PASS
MTERF3	8	96239398	96261610	0.355469066	suppress_segment_too_large
MTERF4	2	241072169	241102332	0.011001208	PASS
MTF1	1	37809567	37859620	0.048749694	PASS
MTF2	1	93079235	93139081	0.079255572	PASS
MTFMT	15	65001512	65029639	-0.759380635	PASS
MTFP1	22	30425530	30429053	-0.740245994	PASS
MTFR1	8	65644734	65771261	0.182873287	suppress_segment_too_large
MTFR1L	1	25818640	25832942	0.048749694	PASS
MTFR2	6	136231024	136250335	0.033894706	PASS
MTG1	10	133394094	133421307	0.073090211	PASS
MTG2	20	62183029	62203568	-0.172056771	suppress_segment_too_large

MTHFD1	14	64388031	64463457	0.053252507	PASS
MTHFD1L	6	150865549	151101887	0.033894706	PASS
MTHFD2	2	74198562	74217565	-0.46122572	PASS
MTHFD2L	4	74114174	74303099	0.115781418	suppress_segment_too_large
MTHFR	1	11785723	11806920	0.364796772	PASS
MTHFS	15	79833585	79897379	-0.759380635	PASS
MTHFSD	16	86530176	86555235	-0.423061015	PASS
MTIF2	2	55236595	55269347	-0.052193497	PASS
MTIF3	13	27435643	27450591	-0.398748891	PASS
MTLN	2	110211529	110245420	0.040971718	PASS
MTM1	23	150568619	150673322	0.158844052	PASS
MTMR1	23	150692971	150765103	0.158844052	PASS
MTMR10	15	30938941	30991607	-0.423772929	PASS
MTMR11	1	149928651	149936869	0.079255572	PASS
MTMR12	5	32226994	32313009	0.073527871	PASS
MTMR14	3	9649433	9702393	0.06149513	PASS
MTMR2	11	95832882	95925315	0.32805343	suppress_segment_too_large
MTMR3	22	29883155	30030866	-0.740245994	PASS
MTMR4	17	58489529	58517905	0.051798665	PASS
MTMR6	13	25246201	25288009	-0.398748891	PASS
MTMR7	8	17298030	17413528	-0.311940419	PASS
MTMR8	23	64268081	64395431	0.158844052	PASS
MTMR9	8	11284416	11328146	-0.311940419	PASS
MTNR1A	4	186533655	186555567	0.275137421	PASS
MTNR1B	11	92969720	92985066	0.064535884	PASS
MTO1	6	73461578	73509236	-0.250122709	PASS
MTOR	1	11106535	11262507	0.364796772	PASS
MTPAP	10	30309801	30374448	0.075711544	PASS
MTPN	7	135926761	135977353	-0.712149877	PASS
MTR	1	236795281	236903981	-0.204996646	suppress_segment_too_large
MTREX	5	55307760	55425581	-0.284712224	PASS
MTRF1	13	41216369	41263577	-0.398748891	PASS
MTRF1L	6	152987362	153002685	0.033894706	PASS
MTRR	5	7851186	7906025	0.073527871	PASS
MTSS1	8	124550790	124728429	0.493344802	suppress_segment_too_large
MTSS1L	16	70661204	70686066	-0.423061015	PASS
MTTP	4	99563761	99623999	-0.677982248	PASS
MTURN	7	30134810	30162762	-0.72421718	PASS
MTUS1	8	17643795	17800917	-0.311940419	PASS
MTUS2	13	28820348	29505947	-0.398748891	PASS
MTX1	1	155208699	155213824	0.088103245	PASS
MTX2	2	176269395	176338025	0.033541467	PASS
MTX3	5	79976731	79991265	-0.393084436	PASS
MUC1	1	155185824	155192916	0.088103245	PASS
MUC12	7	100969623	101018949	-0.136636349	PASS
MUC13	3	124905442	124953819	0.06434429	PASS
MUC15	11	26559033	26572233	-0.359426047	PASS
MUC16	19	8848844	8981342	-0.071973357	PASS
MUC17	7	101020072	101058745	-0.136636349	PASS
MUC19	12	40393395	40570832	-0.46813528	PASS
MUC2	11	1074875	1110511	-0.39835217	PASS
MUC20	3	195720882	195741123	0.02267528	PASS
MUC21	6	30983718	30989903	0.069043418	PASS
MUC22	6	31010474	31035402	0.069043418	PASS

MUC3A	7	100949555	100968346	-0.136636349	PASS
MUC4	3	195746765	195812277	0.02267528	PASS
MUC5AC	11	1157953	1201138	-0.39835217	PASS
MUC5B	11	1223066	1262172	-0.39835217	PASS
MUC6	11	1012821	1036706	-0.39835217	PASS
MUC7	4	70430492	70482997	0.115781418	suppress_segment_too_large
MUCL1	12	54830519	54858393	-0.743220499	PASS
MUCL3	6	30934523	30954221	0.069043418	PASS
MUL1	1	20499448	20508161	0.048749694	PASS
MUM1	19	1354711	1378431	-0.071973357	PASS
MUM1L1	23	106168305	106208956	0.158844052	PASS
MUS81	11	65857126	65867653	0.064535884	PASS
MUSK	9	110668771	110801620	0.073960965	PASS
MUSTN1	3	52833114	52835219	-0.727808231	PASS
MUT	6	49430360	49463191	0.239805577	suppress_segment_too_large
MUTYH	1	45329163	45340470	-0.736943052	PASS
MVB12A	19	17405722	17433724	-0.069222905	PASS
MVB12B	9	126326849	126507041	0.073960965	PASS
MVD	16	88651935	88663161	-0.423061015	PASS
MVK	12	109573255	109598117	0.028722739	PASS
MVP	16	29820394	29848039	0.053595371	PASS
MX1	21	41420304	41459214	0.209983559	PASS
MX2	21	41361943	41409390	0.209983559	PASS
MXD1	2	69897688	69942945	-0.46122572	PASS
MXD3	5	177301461	177312757	0.165341871	suppress_segment_too_large
MXD4	4	2247432	2262294	-0.358623662	PASS
MXI1	10	110207605	110287365	0.073090211	PASS
MXRA5	23	3308565	3346641	0.158844052	PASS
MXRA7	17	76672551	76711016	0.051798665	PASS
MXRA8	1	1352689	1361777	-0.358281697	PASS
MYADM	19	53866223	53876437	0.142581352	PASS
MYADML	17	81939645	81947233	0.051798665	PASS
MYB	6	135181315	135219173	0.033894706	PASS
MYBBP1A	17	4538897	4555631	0.06854245	PASS
MYBL1	8	66562175	66614247	0.182873287	suppress_segment_too_large
MYBL2	20	43667019	43716496	-0.172056771	suppress_segment_too_large
MYBPC1	12	101568353	101686018	0.028722739	PASS
MYBPC2	19	50432903	50466321	0.002743503	PASS
MYBPC3	11	47331397	47352702	0.059795455	PASS
MYBPH	1	203167811	203175813	-0.204996646	suppress_segment_too_large
MYBPHL	1	109292365	109307041	0.079255572	PASS
MYC	8	127735434	127741434	0.493344802	suppress_segment_too_large
MYCBP	1	38862964	38874105	0.048749694	PASS
MYCBP2	13	77044655	77327050	-0.384313056	PASS
MYCBPAP	17	50508384	50531501	0.051798665	PASS
MYCL	1	39895426	39902256	0.048749694	PASS
MYCN	2	15940564	15947007	0.034263343	PASS
MYCT1	6	152697895	152724567	0.033894706	PASS
MYD88	3	38138478	38143022	-0.727808231	PASS
MYDGF	19	4641374	4670370	-0.071973357	PASS
MYEF2	15	48134631	48178517	-0.423772929	PASS
MYEOV	11	69294138	69367726	0.064535884	PASS
MYF5	12	80716912	80719673	0.271127429	suppress_segment_too_large
MYF6	12	80707498	80709474	0.271127429	suppress_segment_too_large

MYH1	17	10492307	10518543	0.06854245	PASS
MYH10	17	8474205	8630761	0.06854245	PASS
MYH11	16	15703172	15857033	0.053595371	PASS
MYH13	17	10300865	10373130	0.06854245	PASS
MYH14	19	50188186	50310544	0.002743503	PASS
MYH15	3	108380369	108529322	0.22470242	PASS
MYH2	17	10521148	10549957	0.06854245	PASS
MYH3	17	10628526	10657309	0.06854245	PASS
MYH4	17	10443290	10469559	0.06854245	PASS
MYH6	14	23381990	23408277	0.053252507	PASS
MYH7	14	23412738	23435718	0.053252507	PASS
MYH7B	20	34975403	35002437	-0.172056771	suppress_segment_too_large
MYH8	17	10390322	10421950	0.06854245	PASS
MYH9	22	36281277	36388067	-0.740245994	PASS
MYL1	2	210290150	210315190	0.011001208	PASS
MYL10	7	101613325	101629296	-0.712149877	PASS
MYL12A	18	3247481	3256236	0.044197172	PASS
MYL12B	18	3261479	3278431	0.044197172	PASS
MYL2	12	110910819	110920722	0.028722739	PASS
MYL3	3	46857872	46882169	-0.727808231	PASS
MYL4	17	47200446	47223679	0.051798665	PASS
MYL5	4	673580	682033	-0.358623662	PASS
MYL6	12	56158161	56163496	-0.743220499	PASS
MYL6B	12	56152256	56159647	-0.743220499	PASS
MYL7	7	44138864	44141332	-0.72421718	PASS
MYL9	20	36541484	36551447	-0.172056771	suppress_segment_too_large
MYLIP	6	16129125	16148248	0.069043418	PASS
MYLK	3	123610049	123884331	0.06434429	PASS
MYLK2	20	31819308	31834689	-0.172056771	suppress_segment_too_large
MYLK3	16	46703369	46790407	0.053595371	PASS
MYLK4	6	2663629	2750966	0.069043418	PASS
MYLPF	16	30370934	30377991	0.053595371	PASS
MYMK	9	133514586	133528612	0.073960965	PASS
MYMX	6	44216939	44218236	0.028532667	PASS
MYNN	3	169772831	169789716	0.02267528	PASS
MYO10	5	16661914	16936276	0.073527871	PASS
MYO15A	17	18108706	18179806	0.06854245	PASS
MYO15B	17	75588058	75626501	0.051798665	PASS
MYO16	13	108596152	109208007	-0.426822582	PASS
MYO18A	17	29071124	29180412	0.041294512	PASS
MYO18B	22	25742144	26031041	-0.740245994	PASS
MYO19	17	36495633	36543435	0.041294512	PASS
MYO1A	12	57028517	57051198	-0.743220499	PASS
MYO1B	2	191245185	191425389	0.011001208	PASS
MYO1C	17	1464186	1492812	0.06854245	PASS
MYO1D	17	32492522	32877177	0.041294512	PASS
MYO1E	15	59132434	59372900	-0.759380635	PASS
MYO1F	19	8520790	8577577	-0.071973357	PASS
MYO1G	7	44962662	44979098	-0.72421718	PASS
MYO1H	12	109347903	109455523	0.028722739	PASS
MYO3A	10	25934071	26212536	0.075711544	PASS
MYO3B	2	170178145	170655171	0.033541467	PASS
MYO5A	15	52307283	52529050	-0.423772929	PASS
MYO5B	18	49822813	50195093	-0.330515409	PASS

MYO5C	15	52192322	52295798	-0.423772929	PASS
MYO6	6	75749192	75919537	-0.250122709	PASS
MYO7A	11	77128264	77215241	0.064535884	PASS
MYO7B	2	127535802	127637729	-0.359440172	PASS
MYO9A	15	71822289	72118577	-0.759380635	PASS
MYO9B	19	17075781	17214537	-0.069222905	PASS
MYOC	1	171635417	171652683	0.088103245	PASS
MYOCD	17	12665890	12768949	0.06854245	PASS
MYOCOS	1	171600621	171638799	0.088103245	PASS
MYOD1	11	17719568	17722131	-0.39835217	PASS
MYOF	10	93306429	93482317	-0.414937136	PASS
MYOG	1	203083132	203086036	-0.204996646	suppress_segment_too_large
MYOM1	18	3066807	3220108	0.044197172	PASS
MYOM2	8	2045040	2165552	-0.311940419	PASS
MYOM3	1	24056035	24112175	0.048749694	PASS
MYORG	9	34366670	34376853	0.073960965	PASS
MYOT	5	137867791	137887851	-0.393084436	PASS
MYOZ1	10	73631654	73641757	0.032351597	PASS
MYOZ2	4	119135784	119187789	-0.754119944	PASS
MYOZ3	5	150660874	150679365	-0.393084436	PASS
MYPN	10	68106117	68212017	0.032351597	PASS
MYPOP	19	45890020	45902604	0.002743503	PASS
MYRF	11	61752642	61788518	0.064535884	PASS
MYRFL	12	69825304	69959097	-0.578548701	PASS
MYRIP	3	39808914	40260321	-0.727808231	PASS
MYSM1	1	58654739	58700092	-0.736943052	PASS
MYT1	20	64102394	64242253	-0.172056771	suppress_segment_too_large
MYT1L	2	1789113	2331664	0.034263343	PASS
MYZAP	15	57591941	57685364	-0.759380635	PASS
MZB1	5	139387480	139390081	-0.393084436	PASS
MZF1	19	58561931	58573575	0.142581352	PASS
MZT1	13	72708357	72727687	-0.384313056	PASS
MZT2A	2	131464900	131492743	-0.359440172	PASS
MZT2B	2	130181737	130190729	-0.359440172	PASS
N4BP1	16	48538726	48620148	0.053595371	PASS
N4BP2	4	40056826	40158252	-0.753159364	PASS
N4BP2L1	13	32400723	32428311	-0.398748891	PASS
N4BP2L2	13	32432417	32538885	-0.398748891	PASS
N4BP3	5	178113443	178126087	0.165341871	suppress_segment_too_large
N6AMT1	21	28872191	28885371	0.209983559	PASS
NAA10	23	153929242	153935223	0.158844052	PASS
NAA11	4	79225694	79326050	-0.677982248	PASS
NAA15	4	139301455	139420033	0.142431244	suppress_segment_too_large
NAA16	13	41311205	41377030	-0.398748891	PASS
NAA20	20	20017116	20033655	-0.172056771	suppress_segment_too_large
NAA25	12	112026689	112109022	0.028722739	PASS
NAA30	14	57390544	57415917	0.053252507	PASS
NAA35	9	85941146	86022298	0.073960965	PASS
NAA38	17	7856685	7885238	0.06854245	PASS
NAA40	11	63938959	63957328	0.064535884	PASS
NAA50	3	113716460	113746300	0.06434429	PASS
NAA60	16	3443611	3486963	0.053595371	PASS
NAA80	3	50296402	50299421	-0.727808231	PASS
NAAA	4	75913657	75941051	-0.677982248	PASS

NAALAD2	11	90131515	90192894	0.064535884	PASS
NAALADI	11	65044818	65058549	0.064535884	PASS
NAALADI	3	174438573	175810552	0.02267528	PASS
NAB1	2	190646746	190692766	0.011001208	PASS
NAB2	12	57088894	57095476	-0.743220499	PASS
NABP1	2	191678068	191696659	0.011001208	PASS
NABP2	12	56222015	56229854	-0.743220499	PASS
NACA	12	56712428	56731628	-0.743220499	PASS
NACA2	17	61590426	61591202	0.051798665	PASS
NACAD	7	45080438	45088914	-0.72421718	PASS
NACC1	19	13118103	13141141	-0.069222905	PASS
NACC2	9	136006537	136095285	0.073960965	PASS
NADK	1	1751232	1780457	-0.358281697	PASS
NADK2	5	36192592	36242279	0.073527871	PASS
NADSYN1	11	71453109	71524107	0.064535884	PASS
NAE1	16	66802875	66873256	-0.423061015	PASS
NAF1	4	163110073	163166921	0.142431244	suppress_segment_too_large
NAGA	22	42058354	42070842	-0.740245994	PASS
NAGK	2	71064344	71079805	-0.46122572	PASS
NAGLU	17	42536172	42544449	0.041294512	PASS
NAGPA	16	5024844	5034141	0.053595371	PASS
NAGS	17	44004546	44009063	0.051798665	PASS
NAIF1	9	128061233	128068206	0.073960965	PASS
NAIP	5	70968483	71025114	-0.393084436	PASS
NALCN	13	101053776	101416492	-0.384313056	PASS
NAMPT	7	106248285	106286326	-0.712149877	PASS
NANOG	12	7787794	7799141	-0.015029783	PASS
NANOGN1	12	7765216	7774121	-0.015029783	PASS
NANOGP8	15	35084193	35085110	-0.423772929	PASS
NANOS1	10	119029716	119033732	0.073090211	PASS
NANOS2	19	45913214	45914870	0.002743503	PASS
NANOS3	19	13862063	13880757	-0.069222905	PASS
NANP	20	25612935	25624175	-0.172056771	suppress_segment_too_large
NANS	9	98056739	98083075	0.073960965	PASS
NAP1L1	12	76036587	76085033	0.271127429	suppress_segment_too_large
NAP1L2	23	73212299	73214848	0.158844052	PASS
NAP1L3	23	93670930	93673568	0.158844052	PASS
NAP1L4	11	2944431	2992377	-0.39835217	PASS
NAP1L5	4	88695915	88697829	-0.677982248	PASS
NAPA	19	47487637	47515240	0.002743503	PASS
NAPB	20	23374519	23421519	-0.172056771	suppress_segment_too_large
NAPEPLD	7	103099776	103149560	-0.712149877	PASS
NAPG	18	10525905	10552761	0.044197172	PASS
NAPRT	8	143574785	143578649	0.699132336	PASS
NAPSA	19	50358477	50365830	0.002743503	PASS
NARF	17	82458180	82490537	0.051798665	PASS
NARS	18	57600656	57622213	-0.330515409	PASS
NARS2	11	78435961	78574874	0.064535884	PASS
NASP	1	45583846	45618904	-0.736943052	PASS
NAT1	8	18170477	18223689	-0.311940419	PASS
NAT10	11	34105602	34147670	-0.359426047	PASS
NAT14	19	55485004	55487568	0.142581352	PASS
NAT16	7	101170493	101180276	-0.712149877	PASS
NAT2	8	18391245	18401218	-0.311940419	PASS

NAT8	2	73640832	73642393	-0.46122572	PASS
NAT8L	4	2059512	2069089	-0.358623662	PASS
NAT9	17	74770547	74776367	0.051798665	PASS
NATD1	17	21238870	21253410	0.041294512	PASS
NAV1	1	201622885	201826969	-0.204996646	suppress_segment_too_large
NAV2	11	19350724	20121598	-0.39835217	PASS
NAV3	12	77324641	78213008	0.271127429	suppress_segment_too_large
NAXD	13	110615460	110639993	-0.426822582	PASS
NAXE	1	156591762	156594299	0.088103245	PASS
NBAS	2	15166909	15561330	0.034263343	PASS
NBDY	23	56729241	56818380	0.158844052	PASS
NBEA	13	34942287	35673022	-0.398748891	PASS
NBEAL1	2	203014879	203226378	0.011001208	PASS
NBEAL2	3	46979683	47009703	-0.727808231	PASS
NBL1	1	19596979	19658456	0.048749694	PASS
NBN	8	89933336	90003228	0.617295349	suppress_segment_too_large
NBPF1	1	16562319	16613562	0.048749694	PASS
NBPF10	1	146064699	146144804	0.079255572	PASS
NBPF11	1	148102046	148152322	0.079255572	PASS
NBPF12	1	146938744	146996202	0.079255572	PASS
NBPF14	1	148531385	148679751	0.079255572	PASS
NBPF15	1	144421386	144461674	0.079255572	PASS
NBPF19	1	149390623	149556361	0.079255572	PASS
NBPF20	1	145289900	145405778	0.079255572	PASS
NBPF26	1	120723923	120841481	0.079255572	PASS
NBPF3	1	21440128	21485005	0.048749694	PASS
NBPF4	1	108223341	108244081	0.079255572	PASS
NBPF6	1	108450282	108471002	0.079255572	PASS
NBPF9	1	149054027	149103561	0.079255572	PASS
NBR1	17	43170481	43211689	0.051798665	PASS
NCALD	8	101686543	102124907	0.355469066	suppress_segment_too_large
NCAM1	11	112961247	113278436	-0.431650509	PASS
NCAM2	21	20998315	21543329	0.758930684	suppress_segment_too_large
NCAN	19	19211973	19252233	-0.069222905	PASS
NCAPD2	12	6493356	6531955	-0.015029783	PASS
NCAPD3	11	134150119	134225454	0.105032849	PASS
NCAPG	4	17810902	17844862	-0.358623662	PASS
NCAPG2	7	158631311	158704829	-0.77630473	PASS
NCAPH	2	96335787	96373845	0.064122364	PASS
NCAPH2	22	50508216	50523472	-0.953096644	PASS
NCBP1	9	97633626	97673748	0.073960965	PASS
NCBP2	3	196935402	196942597	0.02267528	PASS
NCBP2-AS	3	196942623	196943540	0.02267528	PASS
NCBP2L	23	107774899	107795829	0.158844052	PASS
NCBP3	17	3802165	3846251	0.06854245	PASS
NCCRP1	19	39196961	39201884	0.048917043	PASS
NCDN	1	35557473	35567274	0.048749694	PASS
NCEH1	3	172630249	172711218	0.02267528	PASS
NCF1	7	74773962	74789315	-0.701511252	PASS
NCF2	1	183555563	183590876	0.088103245	PASS
NCF4	22	36860988	36878015	-0.740245994	PASS
NCK1	3	136862208	136949823	0.06434429	PASS
NCK2	2	105744897	105894274	-0.439572519	PASS
NCKAP1	2	182909115	183038858	-0.120408457	PASS

NCKAP1L	12	54497711	54548238	-0.743220499	PASS
NCKAP5	2	132671799	133568463	-0.359440172	PASS
NCKAP5L	12	49791146	49828750	-0.743220499	PASS
NCKIPSD	3	48673844	48686364	-0.727808231	PASS
NCL	2	231453531	231483641	0.011001208	PASS
NCLN	19	3185563	3209575	-0.071973357	PASS
NCMAP	1	24556111	24609328	0.048749694	PASS
NCOA1	2	24491914	24770702	0.034263343	PASS
NCOA2	8	70109762	70403805	0.182873287	suppress_segment_too_large
NCOA3	20	47501902	47656877	-0.172056771	suppress_segment_too_large
NCOA4	10	46005088	46030714	-0.389033546	PASS
NCOA5	20	46060985	46089952	-0.172056771	suppress_segment_too_large
NCOA6	20	34689097	34825649	-0.172056771	suppress_segment_too_large
NCOA7	6	125781161	125932030	-0.304168115	PASS
NCOR1	17	16029157	16218185	0.06854245	PASS
NCOR2	12	124324415	124567589	0.028722739	PASS
NCR1	19	54906150	54916140	0.142581352	PASS
NCR2	6	41335655	41350887	0.028532667	PASS
NCR3	6	31588895	31592985	0.028532667	PASS
NCR3LG1	11	17351726	17377341	-0.39835217	PASS
NCS1	9	130172578	130237304	0.073960965	PASS
NCSTN	1	160343272	160358952	0.088103245	PASS
NDC1	1	53765460	53838860	-0.736943052	PASS
NDC80	18	2571511	2616635	0.044197172	PASS
NDE1	16	15643267	15726353	0.053595371	PASS
NDEL1	17	8413131	8490411	0.06854245	PASS
NDFIP1	5	142108505	142154443	-0.393084436	PASS
NDFIP2	13	79481124	79556075	-0.384313056	PASS
NDN	15	23685400	23687330	-0.423772929	PASS
NDNF	4	121035613	121073021	0.142431244	suppress_segment_too_large
NDOR1	9	137205685	137217009	0.073960965	PASS
NDP	23	43948776	43973504	0.158844052	PASS
NDRG1	8	133237171	133302022	0.493344802	suppress_segment_too_large
NDRG2	14	21016763	21070872	0.053252507	PASS
NDRG3	20	36651766	36746078	-0.172056771	suppress_segment_too_large
NDRG4	16	58462846	58513628	-0.423061015	PASS
NDST1	5	150485818	150558211	-0.393084436	PASS
NDST2	10	73801911	73811798	0.032351597	PASS
NDST3	4	118033618	118258648	0.281939692	PASS
NDST4	4	114827763	115113876	0.281939692	PASS
NDUFA1	23	119871487	119876662	0.158844052	PASS
NDUFA10	2	239892450	240025402	0.011001208	PASS
NDUFA11	19	5891276	5904006	-0.071973357	PASS
NDUFA12	12	94897055	95003770	0.028722739	PASS
NDUFA13	19	19515736	19529054	-0.069222905	PASS
NDUFA2	5	140638740	140647785	-0.393084436	PASS
NDUFA3	19	54102728	54109257	0.142581352	PASS
NDUFA4	7	10931951	10940256	-0.72421718	PASS
NDUFA4L	12	57234903	57240715	-0.743220499	PASS
NDUFA5	7	123536997	123558255	-0.712149877	PASS
NDUFA6	22	42085525	42090955	-0.740245994	PASS
NDUFA7	19	8308768	8321396	-0.071973357	PASS
NDUFA8	9	122144058	122159819	0.073960965	PASS
NDUFA9	12	4649095	4694317	-0.015029783	PASS

NDUFAB1	16	23581002	23596356	0.053595371	PASS
NDUFAF1	15	41387349	41402519	-0.423772929	PASS
NDUFAF2	5	60945129	61153037	0.07724032	PASS
NDUFAF3	3	49020459	49023495	-0.727808231	PASS
NDUFAF4	6	96889313	96897881	-0.355603029	PASS
NDUFAF5	20	13784950	13821582	-0.172056771	suppress_segment_too_large
NDUFAF6	8	94895767	95116455	0.355469066	suppress_segment_too_large
NDUFAF7	2	37231631	37253403	0.034263343	PASS
NDUFAF8	17	81239239	81241281	0.051798665	PASS
NDUFB1	14	92116122	92121917	-0.155273506	suppress_segment_too_large
NDUFB10	16	1959508	1961975	0.053595371	PASS
NDUFB11	23	47142216	47145504	0.158844052	PASS
NDUFB2	7	140690777	140722790	-0.712149877	PASS
NDUFB3	2	201071433	201085750	0.011001208	PASS
NDUFB4	3	120596309	120602500	0.06434429	PASS
NDUFB5	3	179604690	179627647	0.02267528	PASS
NDUFB6	9	32552999	32573184	0.073960965	PASS
NDUFB7	19	14566078	14572062	-0.069222905	PASS
NDUFB8	10	100523740	100530000	-0.414937136	PASS
NDUFB9	8	124539101	124580648	0.493344802	suppress_segment_too_large
NDUFC1	4	139266880	139302551	0.142431244	suppress_segment_too_large
NDUFC2	11	78068304	78080219	0.064535884	PASS
NDUFC2-I	11	78016971	78079865	0.064535884	PASS
NDUFS1	2	206114817	206159603	0.011001208	PASS
NDUFS2	1	161197104	161214395	0.088103245	PASS
NDUFS3	11	47565336	47584562	0.059795455	PASS
NDUFS4	5	53560633	53683340	-0.284712224	PASS
NDUFS5	1	39026318	39034636	0.048749694	PASS
NDUFS6	5	1801400	1816605	0.073527871	PASS
NDUFS7	19	1383527	1395589	-0.071973357	PASS
NDUFS8	11	68030617	68036644	0.064535884	PASS
NDUFV1	11	67605653	67612554	0.064535884	PASS
NDUFV2	18	9102630	9134345	0.044197172	PASS
NDUFV3	21	42879644	42913304	0.209983559	PASS
NEB	2	151485336	151734487	-0.30549516	PASS
NEBL	10	20779973	21174187	0.075711544	PASS
NECAB1	8	90791550	90959408	0.617295349	suppress_segment_too_large
NECAB2	16	83968632	84002776	-0.423061015	PASS
NECAB3	20	33657087	33674463	-0.172056771	suppress_segment_too_large
NECAP1	12	8076939	8097859	-0.015029783	PASS
NECAP2	1	16440672	16460078	0.048749694	PASS
NECTIN1	11	119623408	119729084	-0.431650509	PASS
NECTIN2	19	44846175	44889228	0.002743503	PASS
NECTIN3	3	111070071	111275563	0.22470242	PASS
NECTIN4	1	161070995	161089599	0.088103245	PASS
NEDD1	12	96907223	96953777	0.028722739	PASS
NEDD4	15	55826922	55993746	-0.759380635	PASS
NEDD4L	18	58044367	58401540	-0.330515409	PASS
NEDD8	14	24216852	24232454	0.053252507	PASS
NEDD8-M	14	24213955	24232352	0.053252507	PASS
NEDD9	6	11183298	11382348	0.069043418	PASS
NEFH	22	29480230	29491390	-0.740245994	PASS
NEFL	8	24950955	24957110	-0.311940419	PASS
NEFM	8	24913012	24919098	-0.311940419	PASS

NEGR1	1	71395940	72282734	0.052232535	PASS
NEIL1	15	75346955	75357114	-0.759380635	PASS
NEIL2	8	11769639	11787346	-0.311940419	PASS
NEIL3	4	177309836	177362943	0.142431244	suppress_segment_too_large
NEK1	4	169392857	169612629	0.142431244	suppress_segment_too_large
NEK10	3	27110085	27369460	0.06149513	PASS
NEK11	3	131026850	131350465	0.06434429	PASS
NEK2	1	211658657	211675630	-0.204996646	suppress_segment_too_large
NEK3	13	52132639	52159861	-0.384313056	PASS
NEK4	3	52708449	52770949	-0.727808231	PASS
NEK5	13	52033611	52129078	-0.384313056	PASS
NEK6	9	124257606	124353307	0.073960965	PASS
NEK7	1	198156963	198322420	0.088103245	PASS
NEK8	17	28725897	28743455	0.041294512	PASS
NEK9	14	75079353	75127344	-0.155273506	suppress_segment_too_large
NELFA	4	1982714	2041903	-0.358623662	PASS
NELFB	9	137255173	137273546	0.073960965	PASS
NELFCD	20	58981208	58995133	-0.172056771	suppress_segment_too_large
NELFE	6	31952087	31959110	0.028532667	PASS
NELL1	11	20669551	21575681	-0.39835217	PASS
NELL2	12	44508275	44921848	-0.46813528	PASS
NEMF	14	49782083	49853203	0.053252507	PASS
NEMP1	12	57055643	57088063	-0.743220499	PASS
NEMP2	2	190504342	190534722	0.011001208	PASS
NENF	1	212432887	212446379	-0.204996646	suppress_segment_too_large
NEO1	15	73051710	73305206	-0.759380635	PASS
NEPRO	3	113002440	113019861	0.06434429	PASS
NES	1	156668763	156677397	0.088103245	PASS
NET1	10	5412551	5458463	0.075711544	PASS
NETO1	18	72742314	72868146	-0.330515409	PASS
NETO2	16	47077703	47143997	0.053595371	PASS
NEU1	6	31857659	31862906	0.028532667	PASS
NEU2	2	233032672	233035057	0.011001208	PASS
NEU3	11	74988134	75018893	0.064535884	PASS
NEURL1	10	103493979	103592552	-0.414937136	PASS
NEURL1B	5	172641266	172691540	0.165341871	suppress_segment_too_large
NEURL2	20	45888625	45891287	-0.172056771	suppress_segment_too_large
NEURL3	2	96497643	96508109	0.064122364	PASS
NEURL4	17	7315628	7329393	0.06854245	PASS
NEUROD1	2	181673088	181680876	0.162734012	PASS
NEUROD2	17	39603536	39609777	0.041294512	PASS
NEUROD4	12	55019945	55030014	-0.743220499	PASS
NEUROD6	7	31337461	31340894	-0.72421718	PASS
NEUROG1	5	135534282	135535949	-0.393084436	PASS
NEUROG2	4	112513516	112516172	-0.677982248	PASS
NEUROG3	10	69571698	69573238	0.032351597	PASS
NEXMIF	23	74732856	74925485	0.158844052	PASS
NEXN	1	77888513	77943895	0.052232535	PASS
NF1	17	31094927	31382116	0.041294512	PASS
NF2	22	29603556	29698598	-0.740245994	PASS
NFAM1	22	42380410	42432395	-0.740245994	PASS
NFASC	1	204828651	205022822	-0.204996646	suppress_segment_too_large
NFAT5	16	69565094	69704666	-0.423061015	PASS
NFATC1	18	79395856	79529325	-0.330515409	PASS

NFATC2	20	51386957	51562831	-0.172056771	suppress_segment_too_large
NFATC2IF	16	28950807	28967097	0.053595371	PASS
NFATC3	16	68084751	68229259	-0.423061015	PASS
NFATC4	14	24365673	24379604	0.053252507	PASS
NFE2	12	54292111	54301121	-0.743220499	PASS
NFE2L1	17	48048329	48061487	0.051798665	PASS
NFE2L2	2	177227595	177392697	0.033541467	PASS
NFE2L3	7	26152240	26187125	-0.72421718	PASS
NFE4	7	102973437	102988856	-0.712149877	PASS
NFIA	1	60865259	61462793	0.052232535	PASS
NFIB	9	14081843	14398983	0.073960965	PASS
NFIC	19	3314403	3469217	-0.071973357	PASS
NFIL3	9	91409045	91423862	0.073960965	PASS
NFIX	19	12995608	13098796	-0.069222905	PASS
NFKB1	4	102501329	102617302	-0.677982248	PASS
NFKB2	10	102394110	102402529	-0.414937136	PASS
NFKBIA	14	35401511	35404749	0.053252507	PASS
NFKBIB	19	38899700	38908893	0.048917043	PASS
NFKBID	19	35887653	35902303	0.044838622	PASS
NFKBIE	6	44258166	44265788	0.028532667	PASS
NFKBIL1	6	31546870	31558829	0.028532667	PASS
NFKBIZ	3	101827991	101861022	0.22470242	PASS
NFRKB	11	129863636	129895590	-0.431650509	PASS
NFS1	20	35668055	35699359	-0.172056771	suppress_segment_too_large
NFU1	2	69395750	69437628	-0.46122572	PASS
NFX1	9	33290511	33371157	0.073960965	PASS
NFXL1	4	47847233	47914667	0.115781418	suppress_segment_too_large
NFYA	6	41072945	41099976	0.028532667	PASS
NFYB	12	104117077	104138289	0.028722739	PASS
NFYC	1	40691648	40771603	0.048749694	PASS
NGB	14	77265483	77271312	-0.155273506	suppress_segment_too_large
NGDN	14	23469688	23509862	0.053252507	PASS
NGEF	2	232878686	233013272	0.011001208	PASS
NGF	1	115285918	115338236	0.079255572	PASS
NGFR	17	49495293	49515017	0.051798665	PASS
NGLY1	3	25718944	25790039	0.06149513	PASS
NGRN	15	90265659	90278141	-0.759380635	PASS
NHEJ1	2	219075317	219160865	0.011001208	PASS
NHLH1	1	160367067	160372848	0.088103245	PASS
NHLH2	1	115836377	115843917	0.079255572	PASS
NHLRC1	6	18120440	18122687	0.069043418	PASS
NHLRC2	10	113854661	113917194	0.073090211	PASS
NHLRC3	13	39038306	39050109	-0.398748891	PASS
NHLRC4	16	566996	569495	0.053595371	PASS
NHP2	5	178149460	178153967	0.165341871	suppress_segment_too_large
NHS	23	17375420	17735994	0.158844052	PASS
NHSL1	6	138422043	138692571	0.033894706	PASS
NHSL2	23	71910818	72161750	0.158844052	PASS
NICN1	3	49422946	49429326	-0.727808231	PASS
NID1	1	235975830	236065162	-0.204996646	suppress_segment_too_large
NID2	14	52004803	52069228	0.053252507	PASS
NIF3L1	2	200889327	200903930	0.011001208	PASS
NIFK	2	121726945	121736923	-0.359440172	PASS
NIM1K	5	43192071	43280850	-0.284712224	PASS

NIN	14	50719763	50831121	0.053252507	PASS
NINJ1	9	93121489	93134288	0.073960965	PASS
NINJ2	12	564296	663779	-0.015029783	PASS
NINL	20	25452705	25585517	-0.172056771	suppress_segment_too_large
NIP7	16	69337996	69343111	-0.423061015	PASS
NIPA1	15	22773063	22829791	-0.423772929	PASS
NIPA2	15	22838641	22868384	-0.423772929	PASS
NIPAL1	4	47914142	48040173	0.115781418	suppress_segment_too_large
NIPAL2	8	98189833	98294393	0.355469066	suppress_segment_too_large
NIPAL3	1	24415794	24472976	0.048749694	PASS
NIPAL4	5	157460019	157474717	0.165341871	suppress_segment_too_large
NIPBL	5	36876759	37066413	0.073527871	PASS
NIPSNAP1	22	29554808	29581337	-0.740245994	PASS
NIPSNAP2	7	55951793	56000181	-0.701511252	PASS
NIPSNAP3	9	104747688	104760122	0.073960965	PASS
NIPSNAP3	9	104764157	104777457	0.073960965	PASS
NISCH	3	52455118	52493071	-0.727808231	PASS
NIT1	1	161118086	161125445	0.088103245	PASS
NIT2	3	100334701	100361635	0.22470242	PASS
NKAIN1	1	31179745	31239554	0.048749694	PASS
NKAIN2	6	123804141	124825657	-1.845658544	PASS
NKAIN3	8	62248591	62999652	0.182873287	suppress_segment_too_large
NKAIN4	20	63240784	63272694	-0.172056771	suppress_segment_too_large
NKAP	23	119920672	119943772	0.158844052	PASS
NKAPD1	11	112074086	112085150	-0.431650509	PASS
NKAPL	6	28259320	28260958	0.069043418	PASS
NKD1	16	50548330	50649249	0.411512417	PASS
NKD2	5	1008829	1038943	0.073527871	PASS
NKG7	19	51371606	51372715	0.002743503	PASS
NKIRAS1	3	23891660	23946591	0.06149513	PASS
NKIRAS2	17	42011382	42025644	0.041294512	PASS
NKPD1	19	45149750	45158737	0.002743503	PASS
NKRF	23	119588337	119606443	0.158844052	PASS
NKTR	3	42600614	42648741	-0.727808231	PASS
NKX1-1	4	1402932	1406331	-0.358623662	PASS
NKX1-2	10	124445239	124450184	0.073090211	PASS
NKX2-1	14	36516392	36521149	0.053252507	PASS
NKX2-2	20	21511010	21514026	-0.172056771	suppress_segment_too_large
NKX2-3	10	99532933	99536524	-0.414937136	PASS
NKX2-4	20	21395367	21398028	-0.172056771	suppress_segment_too_large
NKX2-5	5	173232109	173235357	0.165341871	suppress_segment_too_large
NKX2-6	8	23702451	23706598	-0.311940419	PASS
NKX2-8	14	36580579	36582607	0.053252507	PASS
NKX3-1	8	23678693	23682927	-0.311940419	PASS
NKX3-2	4	13540830	13545050	-0.358623662	PASS
NKX6-1	4	84491987	84498450	-0.677982248	PASS
NKX6-2	10	132783179	132786052	0.073090211	PASS
NKX6-3	8	41645178	41650669	0.182873287	suppress_segment_too_large
NLE1	17	35128753	35142315	0.041294512	PASS
NLGN1	3	173396284	174286644	0.02267528	PASS
NLGN2	17	7404874	7419860	0.06854245	PASS
NLGN3	23	71144831	71171201	0.158844052	PASS
NLGN4X	23	5840637	6228863	0.158844052	PASS
NLK	17	28041737	28196381	0.041294512	PASS

NLN	5	65722196	65871725	-0.393084436	PASS
NLRC3	16	3539033	3577400	0.053595371	PASS
NLRC4	2	32224453	32265854	0.034263343	PASS
NLRC5	16	56989485	57083531	-0.423061015	PASS
NLRP1	17	5499427	5619424	0.06854245	PASS
NLRP10	11	7959424	7965426	-0.39835217	PASS
NLRP11	19	55785397	55836800	0.142581352	PASS
NLRP12	19	53793603	53824394	0.142581352	PASS
NLRP13	19	55891699	55932336	0.142581352	PASS
NLRP14	11	7020446	7071308	-0.39835217	PASS
NLRP2	19	54953130	55001142	0.142581352	PASS
NLRP2B	23	57677067	57680260	0.158844052	PASS
NLRP3	1	247416156	247449108	-0.145670469	suppress_likely_unfocal_large_gain
NLRP4	19	55836578	55881854	0.142581352	PASS
NLRP5	19	55999726	56061813	0.142581352	PASS
NLRP6	11	278365	285359	-0.39835217	PASS
NLRP7	19	54923509	54966312	0.142581352	PASS
NLRP8	19	55947832	55988629	0.142581352	PASS
NLRP9	19	55708432	55738402	0.142581352	PASS
NLRX1	11	119166568	119184016	-0.431650509	PASS
NMB	15	84655129	84658563	-0.759380635	PASS
NMBR	6	142058330	142088799	0.033894706	PASS
NMD3	3	161104696	161253532	0.02267528	PASS
NME1	17	51153536	51162428	0.051798665	PASS
NME1-NM	17	51153590	51171744	0.051798665	PASS
NME2	17	51165435	51171747	0.051798665	PASS
NME3	16	1770286	1771730	0.053595371	PASS
NME4	16	396725	410367	0.053595371	PASS
NME5	5	138115172	138139443	-0.393084436	PASS
NME6	3	48290722	48301685	-0.727808231	PASS
NME7	1	169132531	169367967	0.088103245	PASS
NME8	7	37848597	37900401	-0.72421718	PASS
NME9	3	138261437	138329886	0.06434429	PASS
NMI	2	151270465	151290057	-0.30549516	PASS
NMNAT1	1	9943428	9985501	0.364796772	PASS
NMNAT2	1	183248237	183418602	0.088103245	PASS
NMNAT3	3	139560180	139678017	-0.889410434	PASS
NMRAL1	16	4461680	4495763	0.053595371	PASS
NMRK1	9	75060573	75088217	0.073960965	PASS
NMRK2	19	3933103	3942416	-0.071973357	PASS
NMS	2	100470482	100483280	0.064122364	PASS
NMT1	17	45051610	45109016	0.051798665	PASS
NMT2	10	15102584	15168693	0.075711544	PASS
NMU	4	55595229	55636698	0.115781418	suppress_segment_too_large
NMUR1	2	231523160	231530495	0.011001208	PASS
NMUR2	5	152391532	152433368	-0.393084436	PASS
NNAT	20	37521206	37523693	-0.172056771	suppress_segment_too_large
NNMT	11	114257787	114313285	-0.431650509	PASS
NNT	5	43602692	43707405	-0.284712224	PASS
NOA1	4	56963370	56978823	0.115781418	suppress_segment_too_large
NOB1	16	69741867	69754940	-0.423061015	PASS
NOBOX	7	144397240	144410227	-0.712149877	PASS
NOC2L	1	944204	959309	-0.358281697	PASS
NOC3L	10	94333226	94362959	-0.414937136	PASS

NOC4L	12	132144448	132152473	0.028722739	PASS
NOCT	4	139015789	139045939	0.142431244	suppress_segment_too_large
NOD1	7	30424527	30478784	-0.72421718	PASS
NOD2	16	50693588	50734041	0.411512417	PASS
NODAL	10	70432315	70447951	0.032351597	PASS
NOG	17	56593699	56595590	0.051798665	PASS
NOL10	2	10570766	10689987	0.034263343	PASS
NOL11	17	67717833	67744531	0.051798665	PASS
NOL12	22	37681673	37693478	-0.740245994	PASS
NOL3	16	67170154	67175735	-0.423061015	PASS
NOL4	18	33851100	34224952	-0.330515409	PASS
NOL4L	20	32443059	32585074	-0.172056771	suppress_segment_too_large
NOL6	9	33461441	33473930	0.073960965	PASS
NOL7	6	13615327	13632739	0.069043418	PASS
NOL8	9	92297358	92325636	0.073960965	PASS
NOL9	1	6521347	6554535	0.364796772	PASS
NOLC1	10	102152176	102163871	-0.414937136	PASS
NOM1	7	156949723	156973182	-0.77630473	PASS
NOMO1	16	14833681	14896160	0.053595371	PASS
NOMO2	16	18417325	18562211	0.053595371	PASS
NOMO3	16	16232495	16294814	0.053595371	PASS
NONO	23	71283192	71301168	0.158844052	PASS
NOP10	15	34341713	34343177	-0.423772929	PASS
NOP14	4	2937933	2963385	-0.358623662	PASS
NOP16	5	176383938	176388975	0.165341871	suppress_segment_too_large
NOP2	12	6556863	6568691	-0.015029783	PASS
NOP53	19	47745522	47757058	0.002743503	PASS
NOP56	20	2652145	2658393	-0.172056771	suppress_segment_too_large
NOP58	2	202265716	202303666	0.011001208	PASS
NOP9	14	24299862	24309124	0.053252507	PASS
NOS1	12	117208142	117452170	0.028722739	PASS
NOS1AP	1	162069774	162370475	0.088103245	PASS
NOS2	17	27756766	27800499	0.041294512	PASS
NOS3	7	150990995	151014588	-0.712149877	PASS
NOSIP	19	49555711	49590262	0.002743503	PASS
NOSTRIN	2	168786539	168865514	0.033541467	PASS
NOTCH1	9	136494433	136545786	0.073960965	PASS
NOTCH2	1	119911553	120069626	0.079255572	PASS
NOTCH2N	1	146146203	146229026	0.079255572	PASS
NOTCH3	19	15159038	15200981	-0.069222905	PASS
NOTCH4	6	32194843	32224067	0.028532667	PASS
NOTO	2	73202258	73212513	-0.46122572	PASS
NOTUM	17	81952507	81961840	0.051798665	PASS
NOV	8	119416306	119424353	0.493344802	suppress_segment_too_large
NOVA1	14	26443093	26597754	0.053252507	PASS
NOVA2	19	45933734	45973546	0.002743503	PASS
NOX1	23	100843324	100874345	0.158844052	PASS
NOX3	6	155395370	155455903	0.033894706	PASS
NOX4	11	89324356	89498187	0.064535884	PASS
NOX5	15	68930525	69062743	-0.759380635	PASS
NOXA1	9	137423350	137434406	0.073960965	PASS
NOXO1	16	1978917	1984192	0.053595371	PASS
NOXRED1	14	77394021	77423517	-0.155273506	suppress_segment_too_large
NPAP1	15	24675868	24683393	-0.423772929	PASS

NPAS1	19	47019820	47045775	0.002743503	PASS
NPAS2	2	100820152	100996829	0.064122364	PASS
NPAS3	14	32934933	33804176	0.053252507	PASS
NPAS4	11	66421004	66426707	0.064535884	PASS
NPAT	11	108157215	108222642	-0.431650509	PASS
NPB	17	81900745	81902905	0.051798665	PASS
NPBWR1	8	52938431	52941117	0.182873287	suppress_segment_too_large
NPBWR2	20	64105820	64107171	-0.172056771	suppress_segment_too_large
NPC1	18	23506184	23586898	-0.330515409	PASS
NPC1L1	7	44512535	44541315	-0.72421718	PASS
NPC2	14	74476192	74494177	-0.155273506	suppress_segment_too_large
NPDC1	9	137039470	137046203	0.073960965	PASS
NPEPL1	20	58689131	58719238	-0.172056771	suppress_segment_too_large
NPEPPS	17	47522942	47623276	0.051798665	PASS
NPFF	12	53506690	53507638	-0.743220499	PASS
NPFFR1	10	70247329	70283676	0.032351597	PASS
NPFFR2	4	72031804	72148067	0.115781418	suppress_segment_too_large
NPHP1	2	110122311	110205066	0.040971718	PASS
NPHP3	3	132680609	132722442	0.06434429	PASS
NPHP3-AC	3	132558142	132722459	0.06434429	PASS
NPHP4	1	5862811	5992473	0.364796772	PASS
NPHS1	19	35825964	35869287	0.044838622	PASS
NPHS2	1	179550539	179575952	0.088103245	PASS
NPIPA1	16	14922802	14952060	0.053595371	PASS
NPIPA2	16	14748066	14765413	0.053595371	PASS
NPIPA5	16	15363624	15381047	0.053595371	PASS
NPIPB11	16	29381354	29404029	0.053595371	PASS
NPIPB12	16	29483642	29505999	0.053595371	PASS
NPIPB15	16	74377878	74392080	-0.423061015	PASS
NPIPB2	16	11927373	11976643	0.053595371	PASS
NPIPB3	16	21402237	21448567	0.053595371	PASS
NPIPB4	16	21834569	21880827	0.053595371	PASS
NPIPB5	16	22479121	22536521	0.053595371	PASS
NPIPB6	16	28342555	28363508	0.053595371	PASS
NPIPB7	16	28456372	28471175	0.053595371	PASS
NPIPB8	16	28637654	28658682	0.053595371	PASS
NPIPB9	16	28751787	28772807	0.053595371	PASS
NPL	1	182789293	182830384	0.088103245	PASS
NPLOC4	17	81556887	81648465	0.051798665	PASS
NPM1	5	171387116	171411137	0.165341871	suppress_segment_too_large
NPM2	8	22024125	22036897	-0.311940419	PASS
NPM3	10	101781325	101783413	-0.414937136	PASS
NPNT	4	105894775	106004027	-0.677982248	PASS
NPPA	1	11845709	11848345	0.364796772	PASS
NPPB	1	11857464	11858931	0.364796772	PASS
NPPC	2	231921820	231926403	0.011001208	PASS
NPR1	1	153678637	153693992	0.088103245	PASS
NPR2	9	35792154	35809732	0.073960965	PASS
NPR3	5	32689070	32791724	0.073527871	PASS
NPRL2	3	50347330	50351091	-0.727808231	PASS
NPRL3	16	84271	138860	0.053595371	PASS
NPS	10	127549369	127552639	0.073090211	PASS
NPSR1	7	34658239	34878332	-0.72421718	PASS
NPTN	15	73560014	73634134	-0.759380635	PASS

NPTX1	17	80467148	80477843	0.051798665	PASS
NPTX2	7	98617297	98629868	-0.710463272	PASS
NPTXR	22	38818452	38843982	-0.740245994	PASS
NPVF	7	25224570	25228486	-0.72421718	PASS
NPW	16	2009926	2020755	0.053595371	PASS
NPY	7	24284163	24291865	-0.72421718	PASS
NPY1R	4	163323961	163344832	0.142431244	suppress_segment_too_large
NPY2R	4	155208629	155217078	0.142431244	suppress_segment_too_large
NPY4R	10	46461099	46465881	-0.389033546	PASS
NPY4R2	10	47918739	47923524	-0.389033546	PASS
NPY5R	4	163343939	163351934	0.142431244	suppress_segment_too_large
NQO1	16	69706996	69726951	-0.423061015	PASS
NQO2	6	2987987	3028869	0.069043418	PASS
NR0B1	23	30304206	30309598	0.158844052	PASS
NR0B2	1	26911489	26913966	0.048749694	PASS
NR1D1	17	40092787	40100725	0.041294512	PASS
NR1D2	3	23945260	23980618	0.06149513	PASS
NR1H2	19	50329653	50382982	0.002743503	PASS
NR1H3	11	47248300	47269032	0.059795455	PASS
NR1H4	12	100473708	100564413	0.028722739	PASS
NR1I2	3	119780484	119818485	0.06434429	PASS
NR1I3	1	161229666	161238302	0.088103245	PASS
NR2C1	12	95020229	95073703	0.028722739	PASS
NR2C2	3	14947584	15053600	0.06149513	PASS
NR2C2AP	19	19201416	19203424	-0.069222905	PASS
NR2E1	6	108166058	108188809	-0.355603029	PASS
NR2E3	15	71792638	71818259	-0.759380635	PASS
NR2F1	5	93583224	93594615	-0.393084436	PASS
NR2F2	15	96325938	96340263	-0.759380635	PASS
NR2F6	19	17231883	17245940	-0.069222905	PASS
NR3C1	5	143277931	143435512	-0.393084436	PASS
NR3C2	4	148078762	148444698	0.142431244	suppress_segment_too_large
NR4A1	12	52022832	52059507	-0.743220499	PASS
NR4A2	2	156324432	156342348	-0.30549516	PASS
NR4A3	9	99821855	99866891	0.073960965	PASS
NR5A1	9	124481236	124507430	0.073960965	PASS
NR5A2	1	200027602	200177424	0.088103245	PASS
NR6A1	9	124517275	124771310	0.073960965	PASS
NRAP	10	113588716	113664127	0.073090211	PASS
NRARP	9	137300482	137302251	0.073960965	PASS
NRAS	1	114704469	114716894	0.079255572	PASS
NRBF2	10	63133247	63155031	0.032351597	PASS
NRBP1	2	27427790	27442259	0.034263343	PASS
NRBP2	8	143833594	143840974	0.699132336	PASS
NRCAM	7	108147623	108456717	-0.712149877	PASS
NRDC	1	51789191	51878937	-0.736943052	PASS
NRDE2	14	90267856	90332137	-0.155273506	suppress_segment_too_large
NREP	5	111662621	111997464	-0.393084436	PASS
NRF1	7	129611714	129757082	-0.712149877	PASS
NRG1	8	31639386	32767959	-0.311940419	PASS
NRG2	5	139846779	140043299	-0.393084436	PASS
NRG3	10	81875314	82987179	0.032351597	PASS
NRG4	15	75935969	76059795	-0.759380635	PASS
NRGN	11	124739846	124747210	-0.431650509	PASS

NRIP1	21	14961235	15065936	0.758930684	suppress_segment_too_large
NRIP2	12	2825348	2835544	-0.015029783	PASS
NRIP3	11	8980576	9004049	-0.39835217	PASS
NRK	23	105822543	105958610	0.158844052	PASS
NRL	14	24080107	24115014	0.053252507	PASS
NRM	6	30688047	30691420	0.069043418	PASS
NRN1	6	5997999	6007605	0.069043418	PASS
NRN1L	16	67884805	67888855	-0.423061015	PASS
NRP1	10	33177492	33336262	0.075711544	PASS
NRP2	2	205681990	205798133	0.011001208	PASS
NRROS	3	196639686	196662004	0.02267528	PASS
NRSN1	6	24126122	24154900	0.069043418	PASS
NRSN2	20	346782	359660	-0.172056771	suppress_segment_too_large
NRTN	19	5823802	5828324	-0.071973357	PASS
NRXN1	2	49918505	51225575	0.034263343	PASS
NRXN2	11	64606174	64723188	0.064535884	PASS
NRXN3	14	78170373	79868290	-0.155273506	suppress_segment_too_large
NSA2	5	74766991	74780113	-0.393084436	PASS
NSD1	5	177133025	177300215	0.165341871	suppress_segment_too_large
NSD2	4	1871424	1982207	-0.358623662	PASS
NSD3	8	38269697	38382272	0.182873287	suppress_segment_too_large
NSDHL	23	152830967	152869729	0.158844052	PASS
NSF	17	46590669	46757464	0.051798665	PASS
NSFL1C	20	1442162	1473842	-0.172056771	suppress_segment_too_large
NSG1	4	4348140	4419058	-0.358623662	PASS
NSG2	5	174045604	174243501	0.165341871	suppress_segment_too_large
NSL1	1	212726153	212791782	-0.204996646	suppress_segment_too_large
NSMAF	8	58583504	58659844	0.182873287	suppress_segment_too_large
NSMCE1	16	27224991	27268794	0.053595371	PASS
NSMCE2	8	125091679	125367120	0.493344802	suppress_segment_too_large
NSMCE3	15	29264992	29269829	-0.423772929	PASS
NSMCE4A	10	121957088	121975217	0.073090211	PASS
NSMF	9	137447573	137459334	0.073960965	PASS
NSRP1	17	30115521	30186475	0.041294512	PASS
NSUN2	5	6599239	6633291	0.073527871	PASS
NSUN3	3	94062916	94128545	0.22470242	PASS
NSUN4	1	46340177	46365152	-0.736943052	PASS
NSUN5	7	73302517	73308867	-0.701511252	PASS
NSUN6	10	18545561	18659285	0.075711544	PASS
NSUN7	4	40749897	40809985	-0.753159364	PASS
NT5C	17	75130225	75131795	0.051798665	PASS
NT5C1A	1	39659121	39672038	0.048749694	PASS
NT5C1B	2	18562872	18589572	0.034263343	PASS
NT5C1B-R	2	18555545	18589564	0.034263343	PASS
NT5C2	10	103088017	103193306	-0.414937136	PASS
NT5C3A	7	33014113	33062797	-0.72421718	PASS
NT5C3B	17	41825181	41836263	0.041294512	PASS
NT5DC1	6	116100849	116249497	-0.355603029	PASS
NT5DC2	3	52524385	52535054	-0.727808231	PASS
NT5DC3	12	103770453	103841197	0.028722739	PASS
NT5DC4	2	112721486	112742879	0.040971718	PASS
NT5E	6	85449584	85495791	-0.355603029	PASS
NT5M	17	17303335	17347663	0.06854245	PASS
NTAN1	16	15037853	15056079	0.053595371	PASS

NTF3	12	5432112	5521536	-0.015029783	PASS
NTF4	19	49061066	49065054	0.002743503	PASS
NTHL1	16	2039815	2047866	0.053595371	PASS
NTM	11	131370478	132336822	0.105032849	PASS
NTMT1	9	129608884	129636131	0.073960965	PASS
NTN1	17	9021542	9244000	0.06854245	PASS
NTN3	16	2471499	2474145	0.053595371	PASS
NTN4	12	95657807	95791152	0.028722739	PASS
NTN5	19	48661407	48673081	0.002743503	PASS
NTNG1	1	107140007	107483458	0.079255572	PASS
NTNG2	9	132161676	132244534	0.073960965	PASS
NTPCR	1	232950605	232983882	-0.204996646	suppress_segment_too_large
NTRK1	1	156815640	156881850	0.088103245	PASS
NTRK2	9	84668551	85027070	0.073960965	PASS
NTRK3	15	87859751	88256768	-0.759380635	PASS
NTS	12	85874295	85882992	0.271127429	suppress_segment_too_large
NTSR1	20	62708837	62762771	-0.172056771	suppress_segment_too_large
NTSR2	2	11658178	11670164	0.034263343	PASS
NUAK1	12	106063340	106140033	0.028722739	PASS
NUAK2	1	205302059	205321791	-0.204996646	suppress_segment_too_large
NUB1	7	151341699	151378449	-0.712149877	PASS
NUBP1	16	10743786	10769351	0.053595371	PASS
NUBP2	16	1782901	1789191	0.053595371	PASS
NUBPL	14	31489956	31861224	0.053252507	PASS
NUCB1	19	48900050	48923372	0.002743503	PASS
NUCB2	11	17208153	17349980	-0.39835217	PASS
NUCKS1	1	205712819	205750276	-0.204996646	suppress_segment_too_large
NUDC	1	26900238	26946862	0.048749694	PASS
NUDCD1	8	109240919	109334385	0.70944438	suppress_segment_too_large
NUDCD2	5	163446526	163460140	0.165341871	suppress_segment_too_large
NUDCD3	7	44379121	44490880	-0.72421718	PASS
NUDT1	7	2242222	2251146	-0.72421718	PASS
NUDT10	23	51332231	51337525	0.158844052	PASS
NUDT11	23	51490011	51496596	0.158844052	PASS
NUDT12	5	103548855	103562793	-0.393084436	PASS
NUDT13	10	73110375	73131828	0.032351597	PASS
NUDT14	14	105172938	105181323	-0.155273506	suppress_segment_too_large
NUDT15	13	48037567	48047222	-0.398748891	PASS
NUDT16	3	131381671	131388830	0.06434429	PASS
NUDT16L	16	4693694	4695859	0.053595371	PASS
NUDT17	1	145845629	145848953	0.079255572	PASS
NUDT18	8	22106872	22109419	-0.311940419	PASS
NUDT19	19	32691961	32713796	0.044838622	PASS
NUDT2	9	34329506	34343713	0.073960965	PASS
NUDT21	16	56429133	56452199	-0.423061015	PASS
NUDT22	11	64225941	64230686	0.064535884	PASS
NUDT3	6	34279679	34392674	0.028532667	PASS
NUDT4	12	93377883	93408146	0.028722739	PASS
NUDT5	10	12165325	12196144	0.075711544	PASS
NUDT6	4	122888697	122922968	0.142431244	suppress_segment_too_large
NUDT7	16	77722492	77742260	-0.423061015	PASS
NUDT8	11	67627938	67629930	0.064535884	PASS
NUDT9	4	87422582	87459454	-0.677982248	PASS
NUF2	1	163266576	163355764	0.088103245	PASS

NUFIP1	13	44939249	44989483	-0.398748891	PASS
NUFIP2	17	29255836	29294118	0.041294512	PASS
NUGGC	8	28021964	28083871	-0.311940419	PASS
NUMA1	11	72002864	72080693	0.064535884	PASS
NUMB	14	73275107	73458617	0.053252507	PASS
NUMBL	19	40665905	40690972	0.048917043	PASS
NUP107	12	68686734	68745809	-0.743220499	PASS
NUP133	1	229440260	229508341	-0.204996646	suppress_segment_too_large
NUP153	6	17615035	17706834	0.069043418	PASS
NUP155	5	37288137	37371181	0.073527871	PASS
NUP160	11	47778087	47848555	-0.210195174	PASS
NUP188	9	128947699	129007096	0.073960965	PASS
NUP205	7	135557919	135648757	-0.712149877	PASS
NUP210	3	13316235	13420309	0.06149513	PASS
NUP210L	1	153992685	154155116	0.088103245	PASS
NUP214	9	131125561	131234670	0.073960965	PASS
NUP35	2	183117513	183161680	-0.120408457	PASS
NUP37	12	102073103	102120124	0.028722739	PASS
NUP43	6	149724315	149749665	0.033894706	PASS
NUP50	22	45163841	45188015	-0.953096644	PASS
NUP54	4	76114659	76148515	-0.677982248	PASS
NUP58	13	25301524	25349800	-0.398748891	PASS
NUP62	19	49906825	49929763	0.002743503	PASS
NUP62CL	23	107123427	107206433	0.158844052	PASS
NUP85	17	75205659	75235758	0.051798665	PASS
NUP88	17	5360963	5420160	0.06854245	PASS
NUP93	16	56730105	56850286	-0.423061015	PASS
NUP98	11	3671083	3797792	-0.39835217	PASS
NUPL2	7	23181827	23201011	-0.72421718	PASS
NUPR1	16	28532708	28539174	0.053595371	PASS
NUPR2	7	56114681	56116400	-0.701511252	PASS
NUS1	6	117675502	117710640	-0.355603029	PASS
NUSAP1	15	41332694	41381050	-0.423772929	PASS
NUTF2	16	67846732	67872567	-0.423061015	PASS
NUTM1	15	34343315	34357737	-0.423772929	PASS
NUTM2A	10	87225448	87236908	-0.461254852	PASS
NUTM2B	10	79703227	79714681	0.032351597	PASS
NUTM2D	10	87357668	87370695	-0.461254852	PASS
NUTM2F	9	94318196	94328644	0.073960965	PASS
NUTM2G	9	96928310	96940253	0.073960965	PASS
NVL	1	224227334	224330387	-0.204996646	suppress_segment_too_large
NWD1	19	16719976	16817963	-0.069222905	PASS
NWD2	4	37244220	37449465	-0.753159364	PASS
NXF1	11	62792123	62806302	0.064535884	PASS
NXF3	23	103075810	103093125	0.158844052	PASS
NXF5	23	101832112	101857577	0.158844052	PASS
NXN	17	799313	979770	0.06854245	PASS
NXNL1	19	17455425	17460954	-0.069222905	PASS
NXNL2	9	88534033	88584274	0.073960965	PASS
NXPE1	11	114521645	114559895	-0.431650509	PASS
NXPE2	11	114678386	114706933	-0.431650509	PASS
NXPE3	3	101779202	101827392	0.22470242	PASS
NXPE4	11	114570591	114595762	-0.431650509	PASS
NXPH1	7	8433955	8752963	-0.72421718	PASS

NXPH2	2	138670772	138780348	-0.359440172	PASS
NXPH3	17	49575858	49583827	0.051798665	PASS
NXPH4	12	57216795	57226449	-0.743220499	PASS
NXT1	20	23350736	23354777	-0.172056771	suppress_segment_too_large
NXT2	23	109535781	109544690	0.158844052	PASS
NYAP1	7	100483927	100494799	-0.710463272	PASS
NYAP2	2	225399710	225654018	0.011001208	PASS
NYNRIN	14	24398786	24419288	0.053252507	PASS
NYX	23	41447434	41475710	0.158844052	PASS
OAF	11	120210767	120230332	-0.431650509	PASS
OARD1	6	41033627	41097787	0.028532667	PASS
OAS1	12	112906777	112933222	0.028722739	PASS
OAS2	12	112978395	113011723	0.028722739	PASS
OAS3	12	112938352	112973249	0.028722739	PASS
OASL	12	121019111	121039242	0.028722739	PASS
OAT	10	124397303	124418976	0.073090211	PASS
OAZ1	19	2269509	2273490	-0.071973357	PASS
OAZ2	15	64687573	64703281	-0.759380635	PASS
OAZ3	1	151762899	151771334	0.079255572	PASS
OBP2A	9	135546139	135549969	0.073960965	PASS
OBP2B	9	133205277	133209250	0.073960965	PASS
OBSCN	1	228208130	228378874	-0.204996646	suppress_segment_too_large
OBSL1	2	219550729	219571859	0.011001208	PASS
OC90	8	132024220	132059380	0.493344802	suppress_segment_too_large
OCA2	15	27754875	28099358	-0.423772929	PASS
OCEL1	19	17226204	17229219	-0.069222905	PASS
OCIAD1	4	48805212	48861817	0.115781418	suppress_segment_too_large
OCIAD2	4	48885019	48906937	0.115781418	suppress_segment_too_large
OCLN	5	69492292	69558104	-0.393084436	PASS
OCM	7	5879827	5886362	-0.72421718	PASS
OCM2	7	97984684	97991169	-0.710463272	PASS
OCRL	23	129539849	129592561	0.158844052	PASS
OCSTAMI	20	46540946	46550574	-0.172056771	suppress_segment_too_large
ODAM	4	70196496	70204576	0.115781418	suppress_segment_too_large
ODAPH	4	75556048	75565885	-0.677982248	PASS
ODC1	2	10439968	10448504	0.034263343	PASS
ODF1	8	102551572	102561017	0.355469066	suppress_segment_too_large
ODF2	9	128455186	128501292	0.073960965	PASS
ODF2L	1	86346824	86396342	0.587598296	PASS
ODF3	11	196738	200261	-0.39835217	PASS
ODF3B	22	50529710	50532580	-0.953096644	PASS
ODF3L1	15	75723977	75727688	-0.759380635	PASS
ODF3L2	19	463346	474983	-0.071973357	PASS
ODF4	17	8339864	8346048	0.06854245	PASS
ODR4	1	186375838	186421378	0.088103245	PASS
OFD1	23	13734745	13769353	0.158844052	PASS
OGA	10	101784443	101818465	-0.414937136	PASS
OGDH	7	44606572	44709066	-0.72421718	PASS
OGDHL	10	49734643	49762379	-0.389033546	PASS
OGFOD1	16	56451490	56479100	-0.423061015	PASS
OGFOD2	12	122974580	122980043	0.028722739	PASS
OGFOD3	17	82389223	82418637	0.051798665	PASS
OGFR	20	62804835	62814000	-0.172056771	suppress_segment_too_large
OGFRL1	6	71288803	71308950	-0.250122709	PASS

OGG1	3	9749944	9788219	0.06149513	PASS
OGN	9	92383967	92404696	0.073960965	PASS
OGT	23	71533083	71575897	0.158844052	PASS
OIP5	15	41309268	41332621	-0.423772929	PASS
OIT3	10	72893581	72933033	0.032351597	PASS
OLA1	2	174072447	174248698	0.033541467	PASS
OLAH	10	15032227	15073852	0.075711544	PASS
OLFM1	9	135075422	135121179	0.073960965	PASS
OLFM2	19	9853718	9936552	-0.107594294	PASS
OLFM3	1	101802574	101997030	0.079255572	PASS
OLFM4	13	53028759	53052057	-0.384313056	PASS
OLFML1	11	7485388	7511377	-0.39835217	PASS
OLFML2A	9	124777158	124814885	0.073960965	PASS
OLFML2B	1	161983192	162023854	0.088103245	PASS
OLFML3	1	113979391	114035572	0.079255572	PASS
OLIG1	21	33070144	33072420	0.209983559	PASS
OLIG2	21	33025845	33029196	0.209983559	PASS
OLIG3	6	137492202	137494250	0.033894706	PASS
OLR1	12	10158301	10172138	0.505438545	PASS
OMA1	1	58415384	58546802	-0.736943052	PASS
OMD	9	92414245	92424461	0.073960965	PASS
OMG	17	31272013	31297539	0.041294512	PASS
OMP	11	77102840	77103331	0.064535884	PASS
ONECUT1	15	52756989	52791078	-0.423772929	PASS
ONECUT2	18	57435685	57491297	-0.330515409	PASS
ONECUT3	19	1752373	1780988	-0.071973357	PASS
OOEP	6	73368555	73395133	-0.250122709	PASS
OOSP2	11	60040275	60048044	0.27006553	suppress_segment_too_large
OOSP4B	11	59978020	60031077	0.27006553	suppress_segment_too_large
OPA1	3	193593144	193697823	0.02267528	PASS
OPA3	19	45527427	45602212	0.002743503	PASS
OPALIN	10	96343216	96359365	-0.414937136	PASS
OPCML	11	132414977	133532519	0.105032849	PASS
OPHN1	23	68042344	68433913	0.158844052	PASS
OPLAH	8	144051266	144063965	0.699132336	PASS
OPN1LW	23	154144224	154159032	0.158844052	PASS
OPN1MW	23	154182596	154196135	0.158844052	PASS
OPN1SW	7	128772491	128775790	-0.712149877	PASS
OPN3	1	241590102	241677376	-0.287484925	PASS
OPN4	10	86654557	86666848	-0.461254852	PASS
OPN5	6	47781982	47832780	0.239805577	suppress_segment_too_large
OPRD1	1	28812142	28871267	0.048749694	PASS
OPRK1	8	53225716	53251697	0.182873287	suppress_segment_too_large
OPRL1	20	64080173	64100643	-0.172056771	suppress_segment_too_large
OPRM1	6	154010496	154246867	0.033894706	PASS
OPRPN	4	70397882	70410194	0.115781418	suppress_segment_too_large
OPTC	1	203494143	203508864	-0.204996646	suppress_segment_too_large
OPTN	10	13099449	13138308	0.075711544	PASS
OR10A2	11	6863057	6874717	-0.39835217	PASS
OR10A3	11	7937171	7941708	-0.39835217	PASS
OR10A4	11	6876625	6877619	-0.39835217	PASS
OR10A5	11	6845652	6846705	-0.39835217	PASS
OR10A6	11	7924592	7931268	-0.39835217	PASS
OR10A7	12	55221025	55221975	-0.743220499	PASS

OR10AD1	12	48202083	48203387	-0.743220499	PASS
OR10AG1	11	55965755	55969945	0.27006553	suppress_segment_too_large
OR10C1	6	29439306	29440977	0.069043418	PASS
OR10D3	11	124183345	124188780	-0.431650509	PASS
OR10G2	14	21633836	21634940	0.053252507	PASS
OR10G3	14	21568520	21580076	0.053252507	PASS
OR10G4	11	124012997	124018732	-0.431650509	PASS
OR10G6	11	123994163	123995161	-0.431650509	PASS
OR10G7	11	124036013	124041325	-0.431650509	PASS
OR10G8	11	124026798	124030634	-0.431650509	PASS
OR10G9	11	124023013	124023948	-0.431650509	PASS
OR10H1	19	15804549	15815664	-0.069222905	PASS
OR10H2	19	15728020	15729060	-0.069222905	PASS
OR10H3	19	15737985	15742343	-0.069222905	PASS
OR10H4	19	15944299	15950350	-0.069222905	PASS
OR10H5	19	15787661	15801025	-0.069222905	PASS
OR10J1	1	159437845	159443078	0.088103245	PASS
OR10J5	1	159535078	159536007	0.088103245	PASS
OR10K1	1	158461574	158470857	0.088103245	PASS
OR10K2	1	158418210	158426237	0.088103245	PASS
OR10P1	12	55636860	55637854	-0.743220499	PASS
OR10Q1	11	58227882	58228918	0.27006553	suppress_segment_too_large
OR10R2	1	158472220	158480936	0.088103245	PASS
OR10S1	11	123976661	123977781	-0.431650509	PASS
OR10T2	1	158398522	158399466	0.088103245	PASS
OR10V1	11	59712916	59713845	0.27006553	suppress_segment_too_large
OR10W1	11	58266792	58268260	0.27006553	suppress_segment_too_large
OR10X1	1	158578919	158579899	0.088103245	PASS
OR10Z1	1	158605268	158612514	0.088103245	PASS
OR11A1	6	29425504	29457071	0.069043418	PASS
OR11G2	14	20190894	20201075	0.053252507	PASS
OR11H1	22	15528159	15529139	-0.740245994	PASS
OR11H12	14	18601045	18602129	0.053252507	PASS
OR11H2	14	19712904	19714332	0.053252507	PASS
OR11H4	14	20239286	20244349	0.053252507	PASS
OR11H6	14	20223710	20224702	0.053252507	PASS
OR11L1	1	247840928	247841896	-0.145670469	suppress_likely_unfocal_large_gain
OR12D2	6	29395631	29398008	0.069043418	PASS
OR12D3	6	29373423	29375291	0.069043418	PASS
OR13A1	10	45302298	45315608	-0.389033546	PASS
OR13C2	9	104604671	104605627	0.073960965	PASS
OR13C3	9	104535749	104536856	0.073960965	PASS
OR13C4	9	104526253	104527209	0.073960965	PASS
OR13C5	9	104598457	104599413	0.073960965	PASS
OR13C8	9	104569168	104570130	0.073960965	PASS
OR13C9	9	104617248	104618204	0.073960965	PASS
OR13D1	9	104694379	104695485	0.073960965	PASS
OR13F1	9	104504263	104505222	0.073960965	PASS
OR13G1	1	247670812	247679739	-0.145670469	suppress_likely_unfocal_large_gain
OR13H1	23	131543976	131545056	0.158844052	PASS
OR13J1	9	35869263	35870601	0.073960965	PASS
OR14A16	1	247814660	247824119	-0.145670469	suppress_likely_unfocal_large_gain
OR14A2	1	247722957	247724043	-0.145670469	suppress_likely_unfocal_large_gain
OR14C36	1	248348775	248349713	0.019108461	PASS

OR14I1	1	248681369	248682304	0.019108461	PASS
OR14J1	6	29301701	29313017	0.069043418	PASS
OR14K1	1	247738615	247739559	-0.145670469	suppress_likely_unfocal_large_gain
OR1A1	17	3207539	3218896	0.06854245	PASS
OR1A2	17	3197519	3198448	0.06854245	PASS
OR1B1	9	122628579	122629573	0.073960965	PASS
OR1C1	1	247754846	247760556	-0.145670469	suppress_likely_unfocal_large_gain
OR1D2	17	3088484	3104422	0.06854245	PASS
OR1D5	17	3062669	3063607	0.06854245	PASS
OR1E1	17	3397104	3398410	0.06854245	PASS
OR1E2	17	3432870	3433841	0.06854245	PASS
OR1F1	16	3204247	3205188	0.053595371	PASS
OR1G1	17	3126584	3127581	0.06854245	PASS
OR1I1	19	15082211	15092970	-0.069222905	PASS
OR1J1	9	122476958	122477926	0.073960965	PASS
OR1J2	9	122510802	122511743	0.073960965	PASS
OR1J4	9	122519141	122520082	0.073960965	PASS
OR1K1	9	122800123	122801073	0.073960965	PASS
OR1L1	9	122661566	122662648	0.073960965	PASS
OR1L3	9	122675036	122676153	0.073960965	PASS
OR1L4	9	122723990	122724925	0.073960965	PASS
OR1L6	9	122742303	122750783	0.073960965	PASS
OR1L8	9	122567117	122583384	0.073960965	PASS
OR1M1	19	9087061	9095669	0.31140559	PASS
OR1N1	9	122526358	122527296	0.073960965	PASS
OR1N2	9	122553112	122554214	0.073960965	PASS
OR1Q1	9	122614738	122615682	0.073960965	PASS
OR1S1	11	58212720	58216084	0.27006553	suppress_segment_too_large
OR1S2	11	58203202	58204181	0.27006553	suppress_segment_too_large
OR2A1	7	144312464	144322668	-0.712149877	PASS
OR2A12	7	144086278	144098953	-0.712149877	PASS
OR2A14	7	144123176	144131188	-0.712149877	PASS
OR2A2	7	144109514	144110564	-0.712149877	PASS
OR2A25	7	144069811	144075870	-0.712149877	PASS
OR2A4	6	131699644	131701401	-0.304168115	PASS
OR2A5	7	144048948	144058845	-0.712149877	PASS
OR2A7	7	144257663	144264792	-0.712149877	PASS
OR2AE1	7	99875987	99877057	-0.710463272	PASS
OR2AG1	11	6783020	6791558	-0.39835217	PASS
OR2AG2	11	6765626	6771976	-0.39835217	PASS
OR2AJ1	1	247924889	247935339	-0.145670469	suppress_likely_unfocal_large_gain
OR2AK2	1	247965233	247966386	0.019108461	PASS
OR2AP1	12	55572468	55575612	-0.743220499	PASS
OR2AT4	11	75081753	75096876	0.064535884	PASS
OR2B11	1	247449118	247458105	-0.145670469	suppress_likely_unfocal_large_gain
OR2B2	6	27911185	27912396	0.069043418	PASS
OR2B3	6	29086208	29087313	0.069043418	PASS
OR2B6	6	27957241	27958182	0.069043418	PASS
OR2C1	16	3355889	3357294	0.053595371	PASS
OR2C3	1	247524677	247536440	-0.145670469	suppress_likely_unfocal_large_gain
OR2D2	11	6891490	6892599	-0.39835217	PASS
OR2D3	11	6920974	6922043	-0.39835217	PASS
OR2F1	7	143954844	143997312	-0.712149877	PASS
OR2F2	7	143935166	143936279	-0.712149877	PASS

OR2G2	1	247588360	247589313	-0.145670469	suppress_likely_unfocal_large_gain
OR2G3	1	247605586	247606515	-0.145670469	suppress_likely_unfocal_large_gain
OR2G6	1	248508073	248527337	0.019108461	PASS
OR2H1	6	29457181	29464328	0.069043418	PASS
OR2H2	6	29585121	29590500	0.069043418	PASS
OR2I1P	6	29550407	29557721	0.069043418	PASS
OR2J1	6	29099657	29102701	0.069043418	PASS
OR2J2	6	29170907	29175811	0.069043418	PASS
OR2J3	6	29108059	29114770	0.069043418	PASS
OR2K2	9	111327483	111330183	0.073960965	PASS
OR2L13	1	248095184	248101103	0.019108461	PASS
OR2L2	1	248030070	248042305	0.019108461	PASS
OR2L3	1	248046836	248063407	0.019108461	PASS
OR2L5	1	248013660	248024276	0.019108461	PASS
OR2L8	1	247948858	247949796	0.019108461	PASS
OR2M2	1	248174821	248181067	0.019108461	PASS
OR2M3	1	248197265	248212925	0.019108461	PASS
OR2M4	1	248231417	248244679	0.019108461	PASS
OR2M5	1	248145148	248146086	0.019108461	PASS
OR2M7	1	248323630	248324568	0.019108461	PASS
OR2S2	9	35957108	35958154	0.073960965	PASS
OR2T1	1	248403048	248408020	0.019108461	PASS
OR2T10	1	248590487	248597700	0.019108461	PASS
OR2T11	1	248623557	248635091	0.019108461	PASS
OR2T12	1	248290139	248303424	0.019108461	PASS
OR2T2	1	248445512	248455725	0.019108461	PASS
OR2T27	1	248649838	248655528	0.019108461	PASS
OR2T29	1	248556912	248562772	0.019108461	PASS
OR2T3	1	248473351	248474307	0.019108461	PASS
OR2T33	1	248269917	248277976	0.019108461	PASS
OR2T34	1	248573801	248574757	0.019108461	PASS
OR2T35	1	248636356	248645278	0.019108461	PASS
OR2T4	1	248361581	248362627	0.019108461	PASS
OR2T5	1	248488589	248491113	0.019108461	PASS
OR2T6	1	248375746	248391811	0.019108461	PASS
OR2T8	1	247920252	247921956	-0.145670469	suppress_likely_unfocal_large_gain
OR2V1	5	181123122	181131169	0.165341871	suppress_segment_too_large
OR2V2	5	181147586	181159285	0.165341871	suppress_segment_too_large
OR2W1	6	29044213	29045240	0.069043418	PASS
OR2W3	1	247895587	247896531	-0.145670469	suppress_likely_unfocal_large_gain
OR2Y1	5	180739042	180740099	0.165341871	suppress_segment_too_large
OR2Z1	19	8721634	8732160	-0.071973357	PASS
OR3A1	17	3291017	3298360	0.06854245	PASS
OR3A2	17	3276942	3386317	0.06854245	PASS
OR3A3	17	3411370	3424070	0.06854245	PASS
OR4A15	11	55367884	55368918	0.27006553	suppress_segment_too_large
OR4A16	11	55343151	55344231	0.27006553	suppress_segment_too_large
OR4A47	11	48488717	48489780	-0.210195174	PASS
OR4A5	11	54706832	54707902	0.27006553	suppress_segment_too_large
OR4B1	11	48216810	48217739	-0.210195174	PASS
OR4C11	11	55602360	55607645	0.27006553	suppress_segment_too_large
OR4C12	11	49981473	49982535	0.27006553	suppress_segment_too_large
OR4C13	11	49952391	49953419	0.27006553	suppress_segment_too_large
OR4C15	11	55554307	55555419	0.27006553	suppress_segment_too_large

OR4C16	11	55572128	55573060	0.27006553	suppress_segment_too_large
OR4C3	11	48324920	48328471	-0.210195174	PASS
OR4C46	11	54603069	54603998	0.27006553	suppress_segment_too_large
OR4C5	11	48365485	48366465	-0.210195174	PASS
OR4C6	11	55662201	55666195	0.27006553	suppress_segment_too_large
OR4D1	17	58148449	58159555	0.051798665	PASS
OR4D10	11	59473315	59479361	0.27006553	suppress_segment_too_large
OR4D11	11	59503576	59504511	0.27006553	suppress_segment_too_large
OR4D2	17	58166982	58171411	0.051798665	PASS
OR4D5	11	123939543	123940637	-0.431650509	PASS
OR4D6	11	59456938	59457991	0.27006553	suppress_segment_too_large
OR4D9	11	59511368	59520703	0.27006553	suppress_segment_too_large
OR4E1	14	21667940	21673818	0.053252507	PASS
OR4E2	14	21653835	21667642	0.053252507	PASS
OR4F15	15	101812202	101820197	-0.394449449	PASS
OR4F17	19	107104	117102	0.069117079	PASS
OR4F21	8	166049	167043	0.250463792	PASS
OR4F4	15	101922042	101923113	-0.394449449	PASS
OR4F5	1	65419	71585	-0.158510115	PASS
OR4F6	15	101803509	101806887	-0.394449449	PASS
OR4K1	14	19930917	19936757	0.053252507	PASS
OR4K13	14	20029399	20036038	0.053252507	PASS
OR4K14	14	20014143	20019307	0.053252507	PASS
OR4K15	14	19975444	19976659	0.053252507	PASS
OR4K17	14	20110739	20122199	0.053252507	PASS
OR4K2	14	19875142	19883932	0.053252507	PASS
OR4K5	14	19920582	19921659	0.053252507	PASS
OR4L1	14	20060045	20060983	0.053252507	PASS
OR4M1	14	19773504	19783696	0.053252507	PASS
OR4N2	14	19719015	19830253	0.053252507	PASS
OR4N4	15	22094522	22095472	-0.423772929	PASS
OR4N5	14	20138820	20145471	0.053252507	PASS
OR4P4	11	55635113	55640309	0.27006553	suppress_segment_too_large
OR4Q3	14	19743571	19749469	0.053252507	PASS
OR4S1	11	48306223	48307152	-0.210195174	PASS
OR4S2	11	55648327	55652854	0.27006553	suppress_segment_too_large
OR4X1	11	48263861	48264778	-0.210195174	PASS
OR4X2	11	48245056	48246080	-0.210195174	PASS
OR51A2	11	4954772	4955713	-0.39835217	PASS
OR51A4	11	4942831	4947605	-0.39835217	PASS
OR51A7	11	4903783	4909462	-0.39835217	PASS
OR51B2	11	5323359	5324297	-0.39835217	PASS
OR51B4	11	5301014	5301946	-0.39835217	PASS
OR51B5	11	5303444	5505652	-0.39835217	PASS
OR51B6	11	5351508	5352446	-0.39835217	PASS
OR51D1	11	4637477	4643060	-0.39835217	PASS
OR51E1	11	4643420	4655488	-0.39835217	PASS
OR51E2	11	4680171	4697854	-0.39835217	PASS
OR51F1	11	4768979	4769938	-0.39835217	PASS
OR51F2	11	4821321	4822456	-0.39835217	PASS
OR51G1	11	4923374	4924339	-0.39835217	PASS
OR51G2	11	4912588	4919350	-0.39835217	PASS
OR51I1	11	5440570	5441514	-0.39835217	PASS
OR51I2	11	5449323	5456518	-0.39835217	PASS

OR51L1	11	4994851	5005536	-0.39835217	PASS
OR51M1	11	5383812	5393263	-0.39835217	PASS
OR51Q1	11	5422111	5423206	-0.39835217	PASS
OR51S1	11	4847489	4849238	-0.39835217	PASS
OR51T1	11	4881819	4882883	-0.39835217	PASS
OR51V1	11	5199735	5200700	-0.39835217	PASS
OR52A1	11	5143219	5154757	-0.39835217	PASS
OR52A5	11	5128776	5138356	-0.39835217	PASS
OR52B2	11	6169330	6170408	-0.39835217	PASS
OR52B4	11	4367263	4368386	-0.39835217	PASS
OR52B6	11	5580877	5581884	-0.39835217	PASS
OR52D1	11	5488685	5489749	-0.39835217	PASS
OR52E2	11	5058650	5059627	-0.39835217	PASS
OR52E4	11	5880629	5887079	-0.39835217	PASS
OR52E5	11	5893208	5902730	-0.39835217	PASS
OR52E6	11	5840928	5841952	-0.39835217	PASS
OR52E8	11	5856674	5857734	-0.39835217	PASS
OR52H1	11	5544489	5548533	-0.39835217	PASS
OR52I1	11	4593614	4596574	-0.39835217	PASS
OR52I2	11	4581743	4593340	-0.39835217	PASS
OR52J3	11	5046526	5047461	-0.39835217	PASS
OR52K1	11	4482646	4493497	-0.39835217	PASS
OR52K2	11	4449295	4450361	-0.39835217	PASS
OR52L1	11	5985892	5986985	-0.39835217	PASS
OR52M1	11	4545191	4546144	-0.39835217	PASS
OR52N1	11	5786471	5791265	-0.39835217	PASS
OR52N2	11	5820314	5821348	-0.39835217	PASS
OR52N4	11	5754243	5755905	-0.39835217	PASS
OR52N5	11	5776165	5783355	-0.39835217	PASS
OR52R1	11	4803433	4804380	-0.39835217	PASS
OR52W1	11	6199146	6200259	-0.39835217	PASS
OR56A1	11	6019336	6034338	-0.39835217	PASS
OR56A3	11	5938751	5951347	-0.39835217	PASS
OR56A4	11	5999445	6006946	-0.39835217	PASS
OR56A5	11	5967177	5968494	-0.39835217	PASS
OR56B1	11	5736448	5738522	-0.39835217	PASS
OR56B4	11	6107684	6108835	-0.39835217	PASS
OR5A1	11	59436469	59451380	0.27006553	suppress_segment_too_large
OR5A2	11	59416969	59426412	0.27006553	suppress_segment_too_large
OR5AC2	3	98087173	98088102	0.22470242	PASS
OR5AK2	11	56988872	56989867	0.27006553	suppress_segment_too_large
OR5AN1	11	59358895	59371714	0.27006553	suppress_segment_too_large
OR5AP2	11	56641466	56642471	0.27006553	suppress_segment_too_large
OR5AR1	11	56663662	56664687	0.27006553	suppress_segment_too_large
OR5AS1	11	56027654	56038191	0.27006553	suppress_segment_too_large
OR5AU1	14	21148370	21159060	0.053252507	PASS
OR5B12	11	58439077	58442758	0.27006553	suppress_segment_too_large
OR5B17	11	58358124	58359069	0.27006553	suppress_segment_too_large
OR5B2	11	58421264	58428121	0.27006553	suppress_segment_too_large
OR5B21	11	58507175	58508105	0.27006553	suppress_segment_too_large
OR5B3	11	58402464	58406874	0.27006553	suppress_segment_too_large
OR5C1	9	122788933	122789895	0.073960965	PASS
OR5D13	11	55773438	55774382	0.27006553	suppress_segment_too_large
OR5D14	11	55795556	55796500	0.27006553	suppress_segment_too_large

OR5D16	11	55838752	55839738	0.27006553	suppress_segment_too_large
OR5D18	11	55819607	55820597	0.27006553	suppress_segment_too_large
OR5F1	11	55993681	55994625	0.27006553	suppress_segment_too_large
OR5H1	3	98130721	98138548	0.22470242	PASS
OR5H14	3	98147479	98156614	0.22470242	PASS
OR5H15	3	98166696	98169774	0.22470242	PASS
OR5H2	3	98282888	98283832	0.22470242	PASS
OR5H6	3	98263252	98265356	0.22470242	PASS
OR5I1	11	55935456	55936400	0.27006553	suppress_segment_too_large
OR5J2	11	56176618	56177556	0.27006553	suppress_segment_too_large
OR5K1	3	98463201	98472924	0.22470242	PASS
OR5K2	3	98497604	98498663	0.22470242	PASS
OR5K3	3	98390666	98391631	0.22470242	PASS
OR5K4	3	98353854	98354819	0.22470242	PASS
OR5L1	11	55811367	55812476	0.27006553	suppress_segment_too_large
OR5L2	11	55827219	55828154	0.27006553	suppress_segment_too_large
OR5M1	11	56609236	56614874	0.27006553	suppress_segment_too_large
OR5M10	11	56576736	56577787	0.27006553	suppress_segment_too_large
OR5M11	11	56542262	56543281	0.27006553	suppress_segment_too_large
OR5M3	11	56469274	56473352	0.27006553	suppress_segment_too_large
OR5M8	11	56490349	56491395	0.27006553	suppress_segment_too_large
OR5M9	11	56462469	56463401	0.27006553	suppress_segment_too_large
OR5P2	11	7795905	7796973	-0.39835217	PASS
OR5P3	11	7824818	7830840	-0.39835217	PASS
OR5R1	11	56417258	56418232	0.27006553	suppress_segment_too_large
OR5T1	11	56274154	56276819	0.27006553	suppress_segment_too_large
OR5T2	11	56231282	56234255	0.27006553	suppress_segment_too_large
OR5T3	11	56252200	56253222	0.27006553	suppress_segment_too_large
OR5V1	6	29353749	29431967	0.069043418	PASS
OR5W2	11	55913650	55914582	0.27006553	suppress_segment_too_large
OR6A2	11	6791736	6799689	-0.39835217	PASS
OR6B1	7	144000320	144008793	-0.712149877	PASS
OR6B2	2	240028965	240030456	0.011001208	PASS
OR6B3	2	240045077	240047027	0.011001208	PASS
OR6C1	12	55314343	55322364	-0.743220499	PASS
OR6C2	12	55444069	55453347	-0.743220499	PASS
OR6C3	12	55330043	55332687	-0.743220499	PASS
OR6C4	12	55549602	55555832	-0.743220499	PASS
OR6C6	12	55293988	55296569	-0.743220499	PASS
OR6C65	12	55400430	55401505	-0.743220499	PASS
OR6C68	12	55492378	55493316	-0.743220499	PASS
OR6C70	12	55469200	55470138	-0.743220499	PASS
OR6C74	12	55247198	55248302	-0.743220499	PASS
OR6C75	12	55362975	55369279	-0.743220499	PASS
OR6C76	12	55426254	55427192	-0.743220499	PASS
OR6F1	1	247711436	247716646	-0.145670469	suppress_likely_unfocal_large_gain
OR6J1	14	22630929	22644352	0.053252507	PASS
OR6K2	1	158699678	158700652	0.088103245	PASS
OR6K3	1	158716327	158720720	0.088103245	PASS
OR6K6	1	158754720	158755891	0.088103245	PASS
OR6M1	11	123805335	123806387	-0.431650509	PASS
OR6N1	1	158747814	158772195	0.088103245	PASS
OR6N2	1	158774222	158781204	0.088103245	PASS
OR6P1	1	158560606	158570580	0.088103245	PASS

OR6Q1	11	58030930	58031931	0.27006553	suppress_segment_too_large
OR6S1	14	20640696	20641691	0.053252507	PASS
OR6T1	11	123942785	123943873	-0.431650509	PASS
OR6V1	7	143052320	143053347	-0.712149877	PASS
OR6X1	11	123753488	123754545	-0.431650509	PASS
OR6Y1	1	158544550	158554405	0.088103245	PASS
OR7A10	19	14840466	14848922	-0.069222905	PASS
OR7A17	19	14878203	14886132	-0.069222905	PASS
OR7A5	19	14824251	14835285	-0.069222905	PASS
OR7C1	19	14789260	14835376	-0.069222905	PASS
OR7C2	19	14941489	14942448	-0.069222905	PASS
OR7D2	19	9178979	9188817	0.31140559	PASS
OR7D4	19	9210276	9219589	0.31140559	PASS
OR7E24	19	9247344	9252625	0.31140559	PASS
OR7E47P	12	52079696	52108239	-0.743220499	PASS
OR7G1	19	9114828	9115763	0.31140559	PASS
OR7G2	19	9100407	9107475	0.31140559	PASS
OR7G3	19	9126012	9126950	0.31140559	PASS
OR8A1	11	124566660	124582942	-0.431650509	PASS
OR8B12	11	124539635	124545333	-0.431650509	PASS
OR8B2	11	124382394	124384462	-0.431650509	PASS
OR8B3	11	124395534	124399024	-0.431650509	PASS
OR8B4	11	124423904	124424893	-0.431650509	PASS
OR8B8	11	124437445	124445696	-0.431650509	PASS
OR8D1	11	124302831	124315099	-0.431650509	PASS
OR8D2	11	124319238	124320288	-0.431650509	PASS
OR8D4	11	123902167	123909229	-0.431650509	PASS
OR8G1	11	124241095	124254364	-0.431650509	PASS
OR8G5	11	124256376	124266218	-0.431650509	PASS
OR8H1	11	56288462	56292254	0.27006553	suppress_segment_too_large
OR8H2	11	56103687	56107658	0.27006553	suppress_segment_too_large
OR8H3	11	56122373	56123311	0.27006553	suppress_segment_too_large
OR8I2	11	56093277	56094286	0.27006553	suppress_segment_too_large
OR8J1	11	56354291	56361511	0.27006553	suppress_segment_too_large
OR8J3	11	56134721	56140201	0.27006553	suppress_segment_too_large
OR8K1	11	56345945	56347031	0.27006553	suppress_segment_too_large
OR8K3	11	56315144	56320639	0.27006553	suppress_segment_too_large
OR8K5	11	56159394	56160317	0.27006553	suppress_segment_too_large
OR8S1	12	48525632	48528103	-0.743220499	PASS
OR8U1	11	56375624	56376553	0.27006553	suppress_segment_too_large
OR9A2	7	143026158	143027195	-0.712149877	PASS
OR9A4	7	141916399	141920625	-0.712149877	PASS
OR9G1	11	56699095	56703884	0.27006553	suppress_segment_too_large
OR9G4	11	56741223	56748697	0.27006553	suppress_segment_too_large
OR9I1	11	58116742	58125530	0.27006553	suppress_segment_too_large
OR9K2	12	55126406	55132750	-0.743220499	PASS
OR9Q1	11	58023881	58181616	0.27006553	suppress_segment_too_large
OR9Q2	11	58189070	58194053	0.27006553	suppress_segment_too_large
ORAI1	12	121626550	121642677	0.028722739	PASS
ORAI2	7	102433106	102456821	-0.712149877	PASS
ORAI3	16	30949066	30956461	0.053595371	PASS
ORC1	1	52372829	52404459	-0.736943052	PASS
ORC2	2	200908973	200963680	0.011001208	PASS
ORC3	6	87590067	87667453	-0.355603029	PASS

ORC4	2	147930397	148021604	-0.30549516	PASS
ORC5	7	104126341	104208047	-0.712149877	PASS
ORC6	16	46689643	46698394	0.053595371	PASS
ORM1	9	114323056	114326475	0.073960965	PASS
ORM2	9	114329869	114333252	0.073960965	PASS
ORMDL1	2	189770323	189784371	0.011001208	PASS
ORMDL2	12	55817919	55821879	-0.743220499	PASS
ORMDL3	17	39921041	39927601	0.041294512	PASS
OS9	12	57693955	57721557	-0.743220499	PASS
OSBP	11	59574398	59616144	0.27006553	suppress_segment_too_large
OSBP2	22	30693782	30907824	-0.740245994	PASS
OSBPL10	3	31657890	32077580	0.06149513	PASS
OSBPL11	3	125528858	125595090	0.06434429	PASS
OSBPL1A	18	24162044	24397880	-0.330515409	PASS
OSBPL2	20	62231922	62296213	-0.172056771	suppress_segment_too_large
OSBPL3	7	24796539	24981634	-0.72421718	PASS
OSBPL5	11	3087116	3166739	-0.39835217	PASS
OSBPL6	2	178194481	178402891	0.033541467	PASS
OSBPL7	17	47807372	47821834	0.051798665	PASS
OSBPL8	12	76351797	76559809	0.271127429	suppress_segment_too_large
OSBPL9	1	51577179	51798427	-0.736943052	PASS
OSCAR	19	54094668	54102692	0.142581352	PASS
OSCP1	1	36415827	36450451	0.048749694	PASS
OSER1	20	44196496	44210791	-0.172056771	suppress_segment_too_large
OSGEP	14	20446411	20455105	0.053252507	PASS
OSGEPL1	2	189746660	189763227	0.011001208	PASS
OSGIN1	16	83948282	83966332	-0.423061015	PASS
OSGIN2	8	89901849	89927888	0.617295349	suppress_segment_too_large
OSM	22	30262829	30266840	-0.740245994	PASS
OSMR	5	38845858	38945596	0.073527871	PASS
OSR1	2	19351485	19358653	0.034263343	PASS
OSR2	8	98944403	98952104	0.355469066	suppress_segment_too_large
OST4	2	27070472	27071773	0.034263343	PASS
OSTC	4	108650584	108667820	-0.677982248	PASS
OSTF1	9	75088543	75147265	0.073960965	PASS
OSTM1	6	108041409	108165854	-0.355603029	PASS
OSTN	3	191199241	191265615	0.02267528	PASS
OTC	23	38352545	38421450	0.158844052	PASS
OTOA	16	21663971	21761935	0.053595371	PASS
OTOF	2	26457203	26558698	0.034263343	PASS
OTOG	11	17547373	17647150	-0.39835217	PASS
OTOGL	12	80099537	80380879	0.271127429	suppress_segment_too_large
OTOL1	3	161496808	161503942	0.02267528	PASS
OTOP1	4	4188803	4226889	-0.358623662	PASS
OTOP2	17	74924275	74933912	0.051798665	PASS
OTOP3	17	74935719	74949992	0.051798665	PASS
OTOR	20	16748358	16770062	-0.172056771	suppress_segment_too_large
OTOS	2	240139026	240144562	0.011001208	PASS
OTP	5	77628712	77639688	-0.393084436	PASS
OTUB1	11	63985853	64001811	0.064535884	PASS
OTUB2	14	94026329	94048930	-0.155273506	suppress_segment_too_large
OTUD1	10	23439458	23442390	0.075711544	PASS
OTUD3	1	19882513	19912945	0.048749694	PASS
OTUD4	4	145110838	145180161	0.142431244	suppress_segment_too_large

OTUD5	23	48922028	48958386	0.158844052	PASS
OTUD6A	23	70062491	70064179	0.158844052	PASS
OTUD6B	8	91070196	91087095	0.617295349	suppress_segment_too_large
OTUD7A	15	31475398	31870789	-0.423772929	PASS
OTUD7B	1	149937812	150010676	0.079255572	PASS
OTULIN	5	14664664	14699711	0.073527871	PASS
OTULINL	5	14581775	14615007	0.073527871	PASS
OTX1	2	63050057	63057836	-0.46122572	PASS
OTX2	14	56799905	56810479	0.053252507	PASS
OVCA2	17	2041936	2043430	0.06854245	PASS
OVCH1	12	29412474	29497686	0.49032213	suppress_segment_too_large
OVCH2	11	7689438	7706421	-0.39835217	PASS
OVGP1	1	111414314	111427777	0.079255572	PASS
OVOL1	11	65787022	65797219	0.064535884	PASS
OVOL2	20	17956979	18059188	-0.172056771	suppress_segment_too_large
OVOL3	19	36111151	36113711	0.044838622	PASS
OXA1L	14	22766522	22773041	0.053252507	PASS
OXCT1	5	41730065	41870519	-0.284712224	PASS
OXCT2	1	39769523	39771348	0.048749694	PASS
OXER1	2	42762481	42764261	0.034263343	PASS
OXGR1	13	96985719	96994730	-0.384313056	PASS
OXLD1	17	81665036	81666635	0.051798665	PASS
OXNAD1	3	16265160	16350299	0.06149513	PASS
OXR1	8	106359476	106752694	0.70944438	suppress_segment_too_large
OXSM	3	25782917	25794534	0.06149513	PASS
OXSR1	3	38165089	38255488	-0.727808231	PASS
OXT	20	3071620	3072517	-0.172056771	suppress_segment_too_large
OXTR	3	8750408	8769628	0.06149513	PASS
P2RX1	17	3896592	3916500	0.06854245	PASS
P2RX2	12	132618776	132622386	0.028722739	PASS
P2RX3	11	57338374	57370600	0.27006553	suppress_segment_too_large
P2RX4	12	121209857	121234106	0.028722739	PASS
P2RX5	17	3672199	3696404	0.06854245	PASS
P2RX5-TA	17	3663063	3696194	0.06854245	PASS
P2RX6	22	21009808	21028830	-0.740245994	PASS
P2RX7	12	121132819	121188032	0.028722739	PASS
P2RY1	3	152834693	152841439	0.02267528	PASS
P2RY10	23	78945332	78961954	0.158844052	PASS
P2RY11	19	10111538	10115372	-0.107594294	PASS
P2RY12	3	151337380	151384812	0.02267528	PASS
P2RY13	3	151326312	151329548	0.02267528	PASS
P2RY14	3	151212117	151278467	0.02267528	PASS
P2RY2	11	73218298	73236352	0.064535884	PASS
P2RY4	23	70258170	70259764	0.158844052	PASS
P2RY6	11	73264505	73298617	0.064535884	PASS
P2RY8	23	1462572	1537107	-0.350651546	PASS
P3H1	1	42746335	42767084	-0.736943052	PASS
P3H2	3	189956728	190122437	0.02267528	PASS
P3H3	12	6828410	6839851	-0.015029783	PASS
P3H4	17	41801947	41812604	0.041294512	PASS
P4HA1	10	73007217	73096974	0.032351597	PASS
P4HA2	5	132191838	132295315	-0.393084436	PASS
P4HA3	11	74235801	74311657	0.064535884	PASS
P4HB	17	81843159	81860694	0.051798665	PASS

P4HTM	3	48989886	49007154	-0.727808231	PASS
PA2G4	12	56104319	56113907	-0.743220499	PASS
PAAF1	11	73876699	73931124	0.064535884	PASS
PABPC1	8	100685816	100722809	0.355469066	suppress_segment_too_large
PABPC1L	20	44910062	44959035	-0.172056771	suppress_segment_too_large
PABPC3	13	25095868	25099254	-0.398748891	PASS
PABPC4	1	39560816	39576790	0.048749694	PASS
PABPC4L	4	134196333	134201748	0.142431244	suppress_segment_too_large
PABPC5	23	91434595	91438584	0.158844052	PASS
PABPN1	14	23321289	23326185	0.053252507	PASS
PABPN1L	16	88863333	88866660	-0.423061015	PASS
PACRG	6	162727132	163315492	0.033894706	PASS
PACRGL	4	20696282	20752907	-0.358623662	PASS
PACS1	11	66070363	66244747	0.064535884	PASS
PACS2	14	105300563	105398147	-0.155273506	suppress_segment_too_large
PACSIN1	6	34466061	34535231	0.028532667	PASS
PACSIN2	22	42835412	43015145	-0.740245994	PASS
PACSIN3	11	47177525	47186443	0.059795455	PASS
PADI1	1	17205126	17246005	0.048749694	PASS
PADI2	1	17066761	17119435	0.048749694	PASS
PADI3	1	17249098	17284233	0.048749694	PASS
PADI4	1	17308195	17364004	0.048749694	PASS
PADI6	1	17372196	17401699	0.048749694	PASS
PAEP	9	135561756	135566955	0.073960965	PASS
PAF1	19	39385852	39391195	0.048917043	PASS
PAFAH1B	17	2593210	2685615	0.06854245	PASS
PAFAH1B	11	117144267	117176894	-0.431650509	PASS
PAFAH1B	19	42297033	42303546	0.048917043	PASS
PAFAH2	1	25959767	25998157	0.048749694	PASS
PAG1	8	80967810	81112068	0.617295349	suppress_segment_too_large
PAGE1	23	49687450	49695993	0.158844052	PASS
PAGE2	23	55089008	55092842	0.158844052	PASS
PAGE2B	23	55075063	55078909	0.158844052	PASS
PAGE3	23	55258412	55264846	0.158844052	PASS
PAGE4	23	49829260	49833973	0.158844052	PASS
PAGE5	23	55220355	55224108	0.158844052	PASS
PAGR1	16	29815952	29820117	0.053595371	PASS
PAH	12	102836885	102958410	0.028722739	PASS
PAICS	4	56435741	56464579	0.115781418	suppress_segment_too_large
PAIP1	5	43526267	43557758	-0.284712224	PASS
PAIP2	5	139341587	139369720	-0.393084436	PASS
PAIP2B	2	71182739	71227083	-0.46122572	PASS
PAK1	11	77321707	77474635	0.064535884	PASS
PAK1IP1	6	10694695	10709782	0.069043418	PASS
PAK2	3	196739857	196832647	0.02267528	PASS
PAK3	23	110944285	111227361	0.158844052	PASS
PAK4	19	39125770	39182816	0.048917043	PASS
PAK5	20	9537389	9839041	-0.172056771	suppress_segment_too_large
PAK6	15	40238759	40277487	-0.423772929	PASS
PALB2	16	23603160	23641310	0.053595371	PASS
PALD1	10	70478821	70568449	0.032351597	PASS
PALLD	4	168497066	168928457	0.142431244	suppress_segment_too_large
PALM	19	708939	748329	-0.071973357	PASS
PALM2	9	109640788	109946703	0.073960965	PASS

PALM2-AI	9	109780309	110172512	0.073960965	PASS
PALM3	19	14053365	14059159	-0.069222905	PASS
PALMD	1	99645943	99694541	0.079255572	PASS
PAM	5	102753981	103031105	-0.393084436	PASS
PAM16	16	4331549	4355607	0.053595371	PASS
PAMR1	11	35431823	35530300	-0.359426047	PASS
PAN2	12	56316223	56334053	-0.743220499	PASS
PAN3	13	28138506	28295335	-0.398748891	PASS
PANK1	10	89579497	89645572	-0.414937136	PASS
PANK2	20	3888839	3929882	-0.172056771	suppress_segment_too_large
PANK3	5	168548495	168579600	0.165341871	suppress_segment_too_large
PANK4	1	2508533	2526628	-0.358281697	PASS
PANO1	11	797511	799190	-0.39835217	PASS
PANX1	11	94128928	94181972	0.064535884	PASS
PANX2	22	50170731	50180294	-0.953096644	PASS
PANX3	11	124611490	124620356	-0.431650509	PASS
PAOX	10	133379234	133391694	0.073090211	PASS
PAPLN	14	73237497	73274640	0.053252507	PASS
PAPOLA	14	96501433	96567111	-0.155273506	suppress_segment_too_large
PAPOLB	7	4857733	4861994	-0.72421718	PASS
PAPOLG	2	60756230	60802085	-0.46122572	PASS
PAPPA	9	116153804	116402322	0.073960965	PASS
PAPPA2	1	176463171	176845605	0.088103245	PASS
PAPSS1	4	107590276	107720452	-0.677982248	PASS
PAPSS2	10	87659613	87747705	-2.417109027	suppress_large_homdel
PAQR3	4	78887127	78939438	-0.677982248	PASS
PAQR4	16	2969245	2973489	0.053595371	PASS
PAQR5	15	69298947	69407780	-0.759380635	PASS
PAQR6	1	156243321	156248117	0.088103245	PASS
PAQR7	1	25861210	25871253	0.048749694	PASS
PAQR8	6	52361421	52407777	0.239805577	suppress_segment_too_large
PAQR9	3	142949164	142963682	0.02267528	PASS
PARD3	10	34109560	34815325	0.075711544	PASS
PARD3B	2	204545793	205620162	0.011001208	PASS
PARD6A	16	67660946	67662778	-0.423061015	PASS
PARD6B	20	50731544	50756795	-0.172056771	suppress_segment_too_large
PARD6G	18	80157232	80247546	-0.330515409	PASS
PARG	10	49818279	49970203	-0.389033546	PASS
PARK7	1	7954291	7985505	0.364796772	PASS
PARL	3	183829271	183884933	0.02267528	PASS
PARM1	4	74933095	75050115	0.115781418	suppress_segment_too_large
PARN	16	14435701	14632728	0.053595371	PASS
PARP1	1	226360691	226408079	-0.204996646	suppress_segment_too_large
PARP10	8	143977153	144012772	0.699132336	PASS
PARP11	12	3791047	3873448	-0.015029783	PASS
PARP12	7	140023744	140063721	-0.712149877	PASS
PARP14	3	122680618	122730840	0.06434429	PASS
PARP15	3	122577602	122639047	0.06434429	PASS
PARP16	15	65234460	65300618	-0.759380635	PASS
PARP2	14	20343582	20357905	0.053252507	PASS
PARP3	3	51942345	51948867	-0.727808231	PASS
PARP4	13	24420926	24512810	-0.398748891	PASS
PARP6	15	72241181	72272999	-0.759380635	PASS
PARP8	5	50665899	50846522	-0.284712224	PASS

PARP9	3	122527924	122564577	0.06434429	PASS
PARPBP	12	102120185	102197520	0.028722739	PASS
PARS2	1	54756898	54764514	-0.736943052	PASS
PARVA	11	12377185	12535356	-0.39835217	PASS
PARVB	22	43999211	44172949	-0.953096644	PASS
PARVG	22	44172956	44219533	-0.953096644	PASS
PASD1	23	151563622	151676739	0.158844052	PASS
PASK	2	241106099	241150264	0.011001208	PASS
PATE1	11	125746293	125749867	-0.431650509	PASS
PATE2	11	125776113	125778819	-0.431650509	PASS
PATE3	11	125788111	125791600	-0.431650509	PASS
PATE4	11	125833316	125840069	-0.431650509	PASS
PATJ	1	61742406	62178675	0.052232535	PASS
PATL1	11	59636716	59668980	0.27006553	suppress_segment_too_large
PATL2	15	44665732	44711316	-0.423772929	PASS
PATZ1	22	31325804	31346232	-0.740245994	PASS
PAWR	12	79574979	79691097	0.271127429	suppress_segment_too_large
PAX1	20	21705659	21718486	-0.172056771	suppress_segment_too_large
PAX2	10	100735603	100829941	-0.414937136	PASS
PAX3	2	222199888	222298996	0.011001208	PASS
PAX4	7	127610292	127618114	-0.712149877	PASS
PAX5	9	36833275	37034185	0.073960965	PASS
PAX6	11	31784779	31818062	-0.359426047	PASS
PAX7	1	18631006	18748866	0.048749694	PASS
PAX8	2	113215997	113278950	0.040971718	PASS
PAX9	14	36657568	36679715	0.053252507	PASS
PAXBP1	21	32733899	32771858	0.209983559	PASS
PAXIP1	7	154943687	155003084	-0.77630473	PASS
PAXX	9	136992418	136993984	0.073960965	PASS
PBDC1	23	76172936	76178204	0.158844052	PASS
PBK	8	27809620	27838095	-0.311940419	PASS
PBLD	10	68282660	68333049	0.032351597	PASS
PBOV1	6	138215986	138218491	0.033894706	PASS
PBRM1	3	52545352	52685917	-0.727808231	PASS
PBX1	1	164555584	164899296	0.088103245	PASS
PBX2	6	32184741	32190186	0.028532667	PASS
PBX3	9	125747345	125967377	0.073960965	PASS
PBX4	19	19561707	19618916	-0.069222905	PASS
PBXIP1	1	154944076	154956123	0.088103245	PASS
PC	11	66848233	66958376	0.064535884	PASS
PCARE	2	29060976	29074261	0.034263343	PASS
PCBD1	10	70882280	70888784	0.032351597	PASS
PCBD2	5	134904906	135007959	-0.393084436	PASS
PCBP1	2	70087454	70089203	-0.46122572	PASS
PCBP2	12	53452102	53481162	-0.743220499	PASS
PCBP3	21	45643694	45942454	0.209983559	PASS
PCBP4	3	51957454	51974016	-0.727808231	PASS
PCCA	13	100089015	100530437	-0.384313056	PASS
PCCB	3	136250306	136337896	0.06434429	PASS
PCDH1	5	141853111	141879246	-0.393084436	PASS
PCDH10	4	133149315	133208606	0.142431244	suppress_segment_too_large
PCDH11X	23	91779261	92623230	0.158844052	PASS
PCDH12	5	141943585	141969741	-0.393084436	PASS
PCDH15	10	53802771	55627942	-0.389033546	PASS

PCDH17	13	57631810	57729311	-0.384313056	PASS
PCDH18	4	137518918	137532494	0.142431244	suppress_segment_too_large
PCDH19	23	100291644	100410273	0.158844052	PASS
PCDH20	13	61409685	61415522	-0.384313056	PASS
PCDH7	4	30720415	31146805	-0.753159364	PASS
PCDH8	13	52842889	52848641	-0.384313056	PASS
PCDH9	13	66302834	67230445	-0.384313056	PASS
PCDHA1	5	140786136	141012347	-0.393084436	PASS
PCDHA10	5	140855883	141012344	-0.393084436	PASS
PCDHA11	5	140868183	141012344	-0.393084436	PASS
PCDHA12	5	140875302	141012344	-0.393084436	PASS
PCDHA13	5	140882208	141012344	-0.393084436	PASS
PCDHA2	5	140794852	141012344	-0.393084436	PASS
PCDHA3	5	140801028	141012344	-0.393084436	PASS
PCDHA4	5	140806929	141012344	-0.393084436	PASS
PCDHA5	5	140821604	141012344	-0.393084436	PASS
PCDHA6	5	140827958	141012344	-0.393084436	PASS
PCDHA7	5	140834248	141012344	-0.393084436	PASS
PCDHA8	5	140841187	141012344	-0.393084436	PASS
PCDHA9	5	140847463	141012344	-0.393084436	PASS
PCDHAC1	5	140926369	141012344	-0.393084436	PASS
PCDHAC2	5	140966235	141012344	-0.393084436	PASS
PCDHB1	5	141051135	141059344	-0.393084436	PASS
PCDHB10	5	141192353	141195642	-0.393084436	PASS
PCDHB11	5	141199582	141203779	-0.393084436	PASS
PCDHB12	5	141208697	141212571	-0.393084436	PASS
PCDHB13	5	141213919	141218979	-0.393084436	PASS
PCDHB14	5	141222932	141227759	-0.393084436	PASS
PCDHB15	5	141245349	141249365	-0.393084436	PASS
PCDHB16	5	141181399	141186399	-0.393084436	PASS
PCDHB2	5	141094578	141098703	-0.393084436	PASS
PCDHB3	5	141100473	141103827	-0.393084436	PASS
PCDHB4	5	141121799	141125623	-0.393084436	PASS
PCDHB5	5	141135218	141138625	-0.393084436	PASS
PCDHB6	5	141150022	141153287	-0.393084436	PASS
PCDHB7	5	141172619	141176383	-0.393084436	PASS
PCDHB8	5	141177790	141180529	-0.393084436	PASS
PCDHB9	5	141187127	141191541	-0.393084436	PASS
PCDHGA1	5	141330571	141512981	-0.393084436	PASS
PCDHGA1	5	141412987	141512979	-0.393084436	PASS
PCDHGA1	5	141421047	141512979	-0.393084436	PASS
PCDHGA1	5	141430589	141512979	-0.393084436	PASS
PCDHGA2	5	141338760	141512979	-0.393084436	PASS
PCDHGA3	5	141343829	141512979	-0.393084436	PASS
PCDHGA4	5	141355025	141512979	-0.393084436	PASS
PCDHGA5	5	141364232	141512979	-0.393084436	PASS
PCDHGA6	5	141373914	141512979	-0.393084436	PASS
PCDHGA7	5	141382739	141512979	-0.393084436	PASS
PCDHGA8	5	141390157	141512979	-0.393084436	PASS
PCDHGA9	5	141402932	141512979	-0.393084436	PASS
PCDHGB1	5	141350102	141512979	-0.393084436	PASS
PCDHGB2	5	141360042	141512979	-0.393084436	PASS
PCDHGB3	5	141370264	141512979	-0.393084436	PASS
PCDHGB4	5	141387698	141512979	-0.393084436	PASS

PCDHGB5	5	141397987	141512979	-0.393084436	PASS
PCDHGB6	5	141408021	141512979	-0.393084436	PASS
PCDHGB7	5	141417645	141512979	-0.393084436	PASS
PCDHGC3	5	141475947	141512979	-0.393084436	PASS
PCDHGC4	5	141484997	141512979	-0.393084436	PASS
PCDHGC5	5	141489121	141512979	-0.393084436	PASS
PCED1A	20	2835314	2841190	-0.172056771	suppress_segment_too_large
PCED1B	12	47079603	47236662	-0.46813528	PASS
PCF11	11	83156988	83187451	0.064535884	PASS
PCGF1	2	74505043	74508580	-0.46122572	PASS
PCGF2	17	38733897	38749817	0.041294512	PASS
PCGF3	4	705748	770640	-0.358623662	PASS
PCGF5	10	91163012	91284331	-0.414937136	PASS
PCGF6	10	103302796	103351144	-0.414937136	PASS
PCID2	13	113177539	113208715	-0.426822582	PASS
PCIF1	20	45934628	45948023	-0.172056771	suppress_segment_too_large
PCK1	20	57561080	57568112	-0.172056771	suppress_segment_too_large
PCK2	14	24094053	24110598	0.053252507	PASS
PCLAF	15	64364311	64387687	-0.759380635	PASS
PCLO	7	82754013	83162930	-0.701511252	PASS
PCM1	8	17922840	18029944	-0.311940419	PASS
PCMT1	6	149749443	149811420	0.033894706	PASS
PCMTD1	8	51817575	51899186	0.182873287	suppress_segment_too_large
PCMTD2	20	64255695	64287821	-0.172056771	suppress_segment_too_large
PCNA	20	5114953	5126626	-0.172056771	suppress_segment_too_large
PCNP	3	101574095	101594437	0.22470242	PASS
PCNT	21	46324122	46445769	0.209983559	PASS
PCNX1	14	70907405	71115382	0.053252507	PASS
PCNX2	1	232983435	233295713	-0.204996646	suppress_segment_too_large
PCNX3	11	65615773	65637439	0.064535884	PASS
PCNX4	14	60091911	60169133	0.053252507	PASS
PCOLCE	7	100602177	100608175	-0.710463272	PASS
PCOLCE2	3	142815922	142889206	0.02267528	PASS
PCP2	19	7631611	7633748	-0.071973357	PASS
PCP4	21	39867317	39929397	0.209983559	PASS
PCP4L1	1	161258727	161285450	0.088103245	PASS
PCSK1	5	96390415	96434143	-0.393084436	PASS
PCSK1N	23	48831094	48835633	0.158844052	PASS
PCSK2	20	17226107	17484578	-0.172056771	suppress_segment_too_large
PCSK4	19	1481428	1490752	-0.071973357	PASS
PCSK5	9	75890644	76362339	0.073960965	PASS
PCSK6	15	101297142	101525202	-0.759380635	PASS
PCSK7	11	117204337	117232525	-0.431650509	PASS
PCSK9	1	55039548	55064852	-0.736943052	PASS
PCTP	17	55750979	55842830	0.051798665	PASS
PCYOX1	2	70257386	70281191	-0.46122572	PASS
PCYOX1L	5	149358007	149369653	-0.393084436	PASS
PCYT1A	3	196214222	196287957	0.02267528	PASS
PCYT1B	23	24558087	24672677	0.158844052	PASS
PCYT2	17	81900965	81911464	0.051798665	PASS
PDAP1	7	99392048	99408829	-0.710463272	PASS
PDC	1	186443566	186461122	0.088103245	PASS
PDCD10	3	167683298	167734939	0.02267528	PASS
PDCD11	10	103396626	103446292	-0.414937136	PASS

PDCD1LG	9	5510570	5571254	0.073960965	PASS
PDCD2	6	170575295	170584692	0.033894706	PASS
PDCD2L	19	34404384	34426168	0.044838622	PASS
PDCD4	10	110871795	110900006	0.073090211	PASS
PDCD5	19	32581068	32587452	0.044838622	PASS
PDCD6	5	271621	353856	0.073527871	PASS
PDCD6IP	3	33798352	33869707	0.06149513	PASS
PDCD7	15	65117379	65133836	-0.759380635	PASS
PDCL	9	122798389	122828631	0.073960965	PASS
PDCL2	4	55556525	55592212	0.115781418	suppress_segment_too_large
PDCL3	2	100562690	100576735	0.064122364	PASS
PDE10A	6	165327287	165988078	0.033894706	PASS
PDE11A	2	177623252	178108339	0.033541467	PASS
PDE12	3	57556276	57566844	-0.727808231	PASS
PDE1A	2	182140036	182523192	0.162734012	PASS
PDE1B	12	54549350	54579239	-0.743220499	PASS
PDE1C	7	31751179	32299329	-0.72421718	PASS
PDE2A	11	72576141	72674591	0.064535884	PASS
PDE3A	12	20369245	20684381	0.49032213	suppress_segment_too_large
PDE3B	11	14643723	14872044	-0.39835217	PASS
PDE4A	19	10416773	10469631	-0.107594294	PASS
PDE4B	1	65792514	66374579	0.052232535	PASS
PDE4C	19	18208652	18248200	-0.069222905	PASS
PDE4D	5	58969038	60522120	-0.284712224	PASS
PDE4DIP	1	148808181	149048286	0.079255572	PASS
PDE5A	4	119494395	119628991	-0.754119944	PASS
PDE6A	5	149857955	149944793	-0.393084436	PASS
PDE6B	4	625584	670782	-0.358623662	PASS
PDE6C	10	93612588	93666010	-0.414937136	PASS
PDE6D	2	231732425	231786272	0.011001208	PASS
PDE6G	17	81650459	81663112	0.051798665	PASS
PDE6H	12	14973022	14981865	0.49032213	suppress_segment_too_large
PDE7A	8	65717510	65842322	0.182873287	suppress_segment_too_large
PDE7B	6	135851696	136195574	0.033894706	PASS
PDE8A	15	84980440	85139145	-0.759380635	PASS
PDE8B	5	77210449	77429807	-0.393084436	PASS
PDE9A	21	42653636	42775509	0.209983559	PASS
PDF	16	69328621	69330595	-0.423061015	PASS
PDGFA	7	497258	520296	-0.72421718	PASS
PDGFB	22	39223359	39244751	-0.740245994	PASS
PDGFC	4	156760454	156971394	0.142431244	suppress_segment_too_large
PDGFD	11	103907186	104164379	0.32805343	suppress_segment_too_large
PDGFRA	4	54229097	54298247	0.115781418	suppress_segment_too_large
PDGFRB	5	150113837	150155872	-0.393084436	PASS
PDGFRL	8	17576433	17644071	-0.311940419	PASS
PDHA1	23	19343893	19361705	0.158844052	PASS
PDHA2	4	95840019	95841474	-0.677982248	PASS
PDHB	3	58427630	58433857	-0.727808231	PASS
PDHX	11	34915829	35020591	-0.359426047	PASS
PDIA2	16	283152	287215	0.053595371	PASS
PDIA3	15	43746392	43773279	-0.423772929	PASS
PDIA4	7	149003062	149028641	-0.712149877	PASS
PDIA5	3	123067062	123225227	0.06434429	PASS
PDIA6	2	10783391	10837977	0.034263343	PASS

PDIK1L	1	26111165	26125543	0.048749694	PASS
PDILT	16	20359170	20404737	0.053595371	PASS
PDK1	2	172555373	172608669	0.033541467	PASS
PDK2	17	50094737	50112152	0.051798665	PASS
PDK3	23	24465221	24541862	0.158844052	PASS
PDK4	7	95583499	95596491	-0.710463272	PASS
PDLIM1	10	95237572	95291024	-0.414937136	PASS
PDLIM2	8	22578279	22598025	-0.311940419	PASS
PDLIM3	4	185500660	185535612	0.275137421	PASS
PDLIM4	5	132257671	132273454	-0.393084436	PASS
PDLIM5	4	94451857	94668227	-0.677982248	PASS
PDLIM7	5	177483394	177497606	0.165341871	suppress_segment_too_large
PDP1	8	93857807	93926066	0.355469066	suppress_segment_too_large
PDP2	16	66878589	66895754	-0.423061015	PASS
PDPK1	16	2537964	2603188	0.053595371	PASS
PDPN	1	13583465	13617957	0.048749694	PASS
PDPR	16	70113626	70162537	-0.423061015	PASS
PDRG1	20	31944342	31952092	-0.172056771	suppress_segment_too_large
PDS5A	4	39822863	39977956	-0.753159364	PASS
PDS5B	13	32586427	32778019	-0.398748891	PASS
PDSS1	10	26697659	26746798	0.075711544	PASS
PDSS2	6	107152557	107459564	-0.355603029	PASS
PDX1	13	27920020	27926231	-0.398748891	PASS
PDXDC1	16	14974591	15139339	0.053595371	PASS
PDXK	21	43719094	43762307	0.209983559	PASS
PDXP	22	37658727	37666934	-0.740245994	PASS
PDYN	20	1978757	1994285	-0.172056771	suppress_segment_too_large
PDZD11	23	70286595	70290514	0.158844052	PASS
PDZD2	5	31639410	32110931	0.073527871	PASS
PDZD3	11	119185457	119190223	-0.431650509	PASS
PDZD4	23	153802166	153830565	0.158844052	PASS
PDZD7	10	101007683	101032295	-0.414937136	PASS
PDZD8	10	117277274	117375467	0.073090211	PASS
PDZD9	16	21983865	22001110	0.053595371	PASS
PDZK1	1	145670852	145708148	0.079255572	PASS
PDZK1IP1	1	47183593	47191044	-0.736943052	PASS
PDZRN3	3	73382433	73624940	-0.727808231	PASS
PDZRN4	12	41188448	41574724	-0.46813528	PASS
PEA15	1	160205337	160215376	0.088103245	PASS
PEAK1	15	77100656	77420144	-0.759380635	PASS
PEAK3	19	2274622	2282176	-0.071973357	PASS
PEAR1	1	156893698	156916434	0.088103245	PASS
PEBP1	12	118135858	118145584	0.028722739	PASS
PEBP4	8	22713251	23000000	-0.311940419	PASS
PECAM1	17	64319415	64413776	0.051798665	PASS
PECR	2	215996329	216082955	0.011001208	PASS
PEF1	1	31629862	31644896	0.048749694	PASS
PEG10	7	94656325	94669695	-0.710463272	PASS
PEG3	19	56810077	56840728	0.142581352	PASS
PELI1	2	64092652	64144454	-0.46122572	PASS
PELI2	14	56117814	56301526	0.053252507	PASS
PELI3	11	66466327	66477337	0.064535884	PASS
PELO	5	52787940	52804046	-0.284712224	PASS
PELP1	17	4669774	4704337	0.06854245	PASS

PEMT	17	17505563	17591708	0.06854245	PASS
PENK	8	56436674	56446734	0.182873287	suppress_segment_too_large
PEPD	19	33386950	33521794	0.044838622	PASS
PER1	17	8140472	8156506	0.06854245	PASS
PER2	2	238244038	238290102	0.011001208	PASS
PER3	1	7784320	7845177	0.364796772	PASS
PERM1	1	975204	982093	-0.358281697	PASS
PERP	6	138088505	138107511	0.033894706	PASS
PES1	22	30576625	30607083	-0.740245994	PASS
PET100	19	7629737	7631956	-0.071973357	PASS
PET117	20	18137873	18143169	-0.172056771	suppress_segment_too_large
PEX1	7	92487020	92528531	-0.710463272	PASS
PEX10	1	2403964	2413797	-0.358281697	PASS
PEX11A	15	89677764	89690783	-0.759380635	PASS
PEX11B	1	145911350	145918837	0.079255572	PASS
PEX11G	19	7476875	7497449	-0.071973357	PASS
PEX12	17	35574795	35578863	0.041294512	PASS
PEX13	2	61017225	61051990	-0.46122572	PASS
PEX14	1	10472288	10630758	0.364796772	PASS
PEX16	11	45909669	45918812	0.059795455	PASS
PEX19	1	160276812	160286348	0.088103245	PASS
PEX2	8	76980258	77001044	0.617295349	suppress_segment_too_large
PEX26	22	18077920	18131138	-0.740245994	PASS
PEX3	6	143450807	143490010	0.033894706	PASS
PEX5	12	7188685	7218574	-0.015029783	PASS
PEX5L	3	179794958	180037053	0.02267528	PASS
PEX6	6	42963870	42979220	0.028532667	PASS
PEX7	6	136822564	136913937	0.033894706	PASS
PF4	4	73981077	73982124	0.115781418	suppress_segment_too_large
PF4V1	4	73853189	73854155	0.115781418	suppress_segment_too_large
PFAS	17	8247618	8270491	0.06854245	PASS
PFDN1	5	140245039	140303121	-0.393084436	PASS
PFDN2	1	161100556	161118111	0.088103245	PASS
PFDN4	20	54207847	54228052	-0.172056771	suppress_segment_too_large
PFDN5	12	53295291	53299450	-0.743220499	PASS
PFDN6	6	33289302	33298401	0.028532667	PASS
PFKFB1	23	54932961	54998534	0.158844052	PASS
PFKFB2	1	207034366	207081024	-0.204996646	suppress_segment_too_large
PFKFB3	10	6144934	6254644	0.075711544	PASS
PFKFB4	3	48517684	48562015	-0.727808231	PASS
PFKL	21	44300051	44327376	0.209983559	PASS
PFKM	12	48105139	48146404	-0.743220499	PASS
PFKP	10	3066333	3137712	0.075711544	PASS
PFN1	17	4945652	4949061	0.06854245	PASS
PFN2	3	149964904	150050788	0.02267528	PASS
PFN3	5	177400107	177400636	0.165341871	suppress_segment_too_large
PFN4	2	24115371	24123477	0.034263343	PASS
PGA3	11	61203307	61213098	0.064535884	PASS
PGA5	11	61241042	61251448	0.064535884	PASS
PGAM1	10	97426160	97433441	-0.414937136	PASS
PGAM2	7	44062727	44065587	-0.72421718	PASS
PGAM4	23	77968874	77969638	0.158844052	PASS
PGAM5	12	132710819	132722734	0.232349073	PASS
PGAP1	2	196833004	196927796	0.011001208	PASS

PGAP2	11	3797724	3826371	-0.39835217	PASS
PGAP3	17	39671122	39696797	0.041294512	PASS
PGBD1	6	28281572	28302549	0.069043418	PASS
PGBD2	1	248906196	248919946	0.019108461	PASS
PGBD4	15	34102073	34108684	-0.423772929	PASS
PGBD5	1	230314482	230426371	-0.204996646	suppress_segment_too_large
PGC	6	41736711	41754109	0.028532667	PASS
PGD	1	10398592	10420144	0.364796772	PASS
PGF	14	74941834	74955784	-0.155273506	suppress_segment_too_large
PGGHG	11	289135	296107	-0.39835217	PASS
PGGT1B	5	115204012	115262872	-0.393084436	PASS
PGK1	23	77910739	78129296	0.158844052	PASS
PGK2	6	49785651	49787307	0.239805577	suppress_segment_too_large
PGLS	19	17511629	17521288	-0.069222905	PASS
PGLYRP1	19	46019153	46023065	0.002743503	PASS
PGLYRP2	19	15468645	15498956	-0.069222905	PASS
PGLYRP3	1	153297862	153310718	0.088103245	PASS
PGLYRP4	1	153330120	153348840	0.088103245	PASS
PGM1	1	63593276	63660245	0.052232535	PASS
PGM2	4	37826633	37862937	-0.753159364	PASS
PGM2L1	11	74330318	74398473	0.064535884	PASS
PGM3	6	83161150	83193936	-0.355603029	PASS
PGM5	9	68328308	68531061	0.073960965	PASS
PGP	16	2211997	2214807	0.053595371	PASS
PGPEP1	19	18340587	18369950	-0.069222905	PASS
PGPEP1L	15	98968230	99007795	-0.759380635	PASS
PGR	11	101029624	101130524	0.32805343	suppress_segment_too_large
PGRMC1	23	119236245	119244466	0.158844052	PASS
PGRMC2	4	128269237	128288829	0.142431244	suppress_segment_too_large
PGS1	17	78378640	78425114	0.051798665	PASS
PHACTR1	6	12716805	13290484	0.069043418	PASS
PHACTR2	6	143536845	143831185	0.033894706	PASS
PHACTR3	20	59577509	59847711	-0.172056771	suppress_segment_too_large
PHACTR4	1	28369582	28500369	0.048749694	PASS
PHAX	5	126600268	126627252	-0.393084436	PASS
PHB	17	49404049	49414905	0.051798665	PASS
PHB2	12	6965327	6970825	-0.015029783	PASS
PHC1	12	8913896	8941467	0.505438545	PASS
PHC2	1	33323623	33431052	0.048749694	PASS
PHC3	3	170086732	170181749	0.02267528	PASS
PHETA1	12	111360651	111369121	0.028722739	PASS
PHETA2	22	42074251	42079441	-0.740245994	PASS
PHEX	23	22032441	22251310	0.158844052	PASS
PHF1	6	33410399	33416453	0.028532667	PASS
PHF10	6	169703905	169725566	0.033894706	PASS
PHF11	13	49495610	49528987	-0.384313056	PASS
PHF12	17	28905250	28951771	0.041294512	PASS
PHF13	1	6613685	6624033	0.364796772	PASS
PHF14	7	10973336	11169630	-0.72421718	PASS
PHF19	9	120855652	120894896	0.073960965	PASS
PHF2	9	93576407	93679587	0.073960965	PASS
PHF20	20	35771974	35950381	-0.172056771	suppress_segment_too_large
PHF20L1	8	132775358	132848807	0.493344802	suppress_segment_too_large
PHF21A	11	45929323	46121178	0.059795455	PASS

PHF21B	22	44881162	45009999	-0.953096644	PASS
PHF23	17	7235028	7239722	0.06854245	PASS
PHF24	9	34957608	34982544	0.073960965	PASS
PHF3	6	63635820	63779336	0.239805577	suppress_segment_too_large
PHF5A	22	41459717	41468725	-0.740245994	PASS
PHF6	23	134373253	134428791	0.158844052	PASS
PHF7	3	52410657	52423641	-0.727808231	PASS
PHF8	23	53936676	54048958	0.158844052	PASS
PHGDH	1	119648411	119744226	0.079255572	PASS
PHGR1	15	40351033	40356434	-0.423772929	PASS
PHIP	6	78935867	79078236	-0.250122709	PASS
PHKA1	23	72578814	72714319	0.158844052	PASS
PHKA2	23	18892300	18984598	0.158844052	PASS
PHKB	16	47461123	47701523	0.053595371	PASS
PHKG1	7	56080283	56092996	-0.701511252	PASS
PHKG2	16	30748270	30761176	0.053595371	PASS
PHLDA1	12	76025447	76033932	0.271127429	suppress_segment_too_large
PHLDA2	11	2928273	2929455	-0.39835217	PASS
PHLDA3	1	201464383	201469237	-0.204996646	suppress_segment_too_large
PHLDB1	11	118606440	118658038	-0.431650509	PASS
PHLDB2	3	111732497	111976517	0.06434429	PASS
PHLDB3	19	43474954	43504935	0.048917043	PASS
PHLPP1	18	62715450	62980433	-0.330515409	PASS
PHLPP2	16	71637835	71724701	-0.423061015	PASS
PHOSPHO	17	49223362	49230766	0.051798665	PASS
PHOSPHO	2	169694454	169701708	0.033541467	PASS
PHOX2A	11	72239077	72245664	0.064535884	PASS
PHOX2B	4	41744082	41748970	-0.753159364	PASS
PHPT1	9	136848724	136851027	0.073960965	PASS
PHRF1	11	576486	612222	-0.39835217	PASS
PHTF1	1	113696831	113759489	0.079255572	PASS
PHTF2	7	77798792	77957503	-0.701511252	PASS
PHYH	10	13277796	13302412	0.075711544	PASS
PHYHD1	9	128920895	128942041	0.073960965	PASS
PHYHIP	8	22219704	22232341	-0.311940419	PASS
PHYHIPL	10	59176590	59247774	0.032351597	PASS
PHYKPL	5	178208497	178232791	0.165341871	suppress_segment_too_large
PI15	8	74824534	74855029	0.182873287	suppress_segment_too_large
PI16	6	36948263	36964837	0.028532667	PASS
PI3	20	45174876	45176544	-0.172056771	suppress_segment_too_large
PI4K2A	10	97640686	97676434	-0.414937136	PASS
PI4K2B	4	25233975	25279092	-0.358623662	PASS
PI4KA	22	20707691	20859417	-0.740245994	PASS
PI4KB	1	151291797	151327715	0.079255572	PASS
PIANP	12	6693792	6700800	-0.015029783	PASS
PIAS1	15	68054179	68198603	-0.759380635	PASS
PIAS2	18	46803224	46920160	-0.330515409	PASS
PIAS3	1	145848522	145859836	0.079255572	PASS
PIAS4	19	4007646	4039386	-0.071973357	PASS
PIBF1	13	72782059	73016461	-0.384313056	PASS
PICALM	11	85957684	86069882	0.064535884	PASS
PICK1	22	38056311	38075701	-0.740245994	PASS
PID1	2	228850526	229271285	0.011001208	PASS
PIDD1	11	799179	809753	-0.39835217	PASS

PIEZO1	16	88715338	88785220	-0.423061015	PASS
PIEZO2	18	10666483	11148762	0.044197172	PASS
PIF1	15	64815632	64825668	-0.759380635	PASS
PIFO	1	111346288	111353013	0.079255572	PASS
PIGA	23	15319451	15335580	0.158844052	PASS
PIGB	15	55318960	55355648	-0.759380635	PASS
PIGBOS1	15	55317184	55319161	-0.759380635	PASS
PIGC	1	172370189	172444086	0.088103245	PASS
PIGF	2	46580937	46617119	0.034263343	PASS
PIGG	4	499210	540196	-0.358623662	PASS
PIGH	14	67581955	67600287	0.053252507	PASS
PIGK	1	77088990	77219430	0.052232535	PASS
PIGL	17	16217191	16351797	0.06854245	PASS
PIGM	1	160024953	160031991	0.088103245	PASS
PIGN	18	61905255	62187118	-0.330515409	PASS
PIGO	9	35088688	35096601	0.073960965	PASS
PIGP	21	37059170	37073170	0.209983559	PASS
PIGQ	16	566995	584136	0.053595371	PASS
PIGR	1	206928518	206946466	-0.204996646	suppress_segment_too_large
PIGS	17	28553383	28571872	0.041294512	PASS
PIGT	20	45416067	45456934	-0.172056771	suppress_segment_too_large
PIGU	20	34560542	34698790	-0.172056771	suppress_segment_too_large
PIGV	1	26787472	26798398	0.048749694	PASS
PIGW	17	36535020	36539310	0.041294512	PASS
PIGX	3	196639775	196736007	0.02267528	PASS
PIGY	4	88521573	88521789	-0.677982248	PASS
PIGZ	3	196946343	196969060	0.02267528	PASS
PIH1D1	19	49446298	49453497	0.002743503	PASS
PIH1D2	11	112064010	112074274	-0.431650509	PASS
PIH1D3	23	107206632	107244243	0.158844052	PASS
PIK3AP1	10	96593312	96720514	-0.414937136	PASS
PIK3C2A	11	17077730	17207983	-0.39835217	PASS
PIK3C2B	1	204422628	204494724	-0.204996646	suppress_segment_too_large
PIK3C2G	12	18247614	18648416	0.49032213	suppress_segment_too_large
PIK3C3	18	41955206	42087830	-0.330515409	PASS
PIK3CA	3	179148114	179240093	0.02267528	PASS
PIK3CB	3	138652699	138834938	0.06434429	PASS
PIK3CD	1	9651732	9729114	0.364796772	PASS
PIK3CG	7	106865278	106907145	-0.712149877	PASS
PIK3IP1	22	31281593	31292534	-0.740245994	PASS
PIK3R1	5	68215720	68301821	-0.393084436	PASS
PIK3R2	19	18153118	18170540	-0.069222905	PASS
PIK3R3	1	46040140	46133036	-0.736943052	PASS
PIK3R4	3	130678935	130746829	0.06434429	PASS
PIK3R5	17	8878911	8965712	0.06854245	PASS
PIK3R6	17	8802723	8867677	0.06854245	PASS
PIKFYVE	2	208266267	208358751	0.011001208	PASS
PILRA	7	100367530	100400099	-0.710463272	PASS
PILRB	7	100352176	100367733	-0.710463272	PASS
PIM1	6	37170203	37175426	0.028532667	PASS
PIM2	23	48913182	48919024	0.158844052	PASS
PIM3	22	49960513	49964080	-0.953096644	PASS
PIMREG	17	6444415	6451469	0.06854245	PASS
PIN1	19	9835257	9849682	-0.107594294	PASS

PIN4	23	72181353	72302926	0.158844052	PASS
PINK1	1	20633455	20651511	0.048749694	PASS
PINLYP	19	43576800	43583964	0.048917043	PASS
PINX1	8	10725399	10839884	-0.311940419	PASS
PIP	7	143132077	143139746	-0.712149877	PASS
PIP4K2A	10	22534849	22714555	0.075711544	PASS
PIP4K2B	17	38765689	38800126	0.041294512	PASS
PIP4K2C	12	57591174	57603418	-0.743220499	PASS
PIP4P1	14	20457719	20461612	0.053252507	PASS
PIP4P2	8	90993796	91041064	0.617295349	suppress_segment_too_large
PIP5K1A	1	151197949	151249536	0.079255572	PASS
PIP5K1B	9	68705414	69009176	0.073960965	PASS
PIP5K1C	19	3630183	3700479	-0.071973357	PASS
PIP5KL1	9	127920879	127930797	0.073960965	PASS
PIPOX	17	28950513	29057220	0.041294512	PASS
PIR	23	15384799	15493564	0.158844052	PASS
PIRT	17	10822475	10838445	0.06854245	PASS
PISD	22	31618491	31662432	-0.740245994	PASS
PITHD1	1	23778405	23788232	0.048749694	PASS
PITPNA	17	1517718	1562816	0.06854245	PASS
PITPNB	22	27851669	27920134	-0.740245994	PASS
PITPNC1	17	67377281	67697261	0.051798665	PASS
PITPNM1	11	67491768	67506263	0.064535884	PASS
PITPNM2	12	122983480	123150015	0.028722739	PASS
PITPNM3	17	6451264	6556494	0.06854245	PASS
PITRM1	10	3137728	3172841	0.075711544	PASS
PITX1	5	135027735	135034813	-0.393084436	PASS
PITX2	4	110617423	110642123	-0.677982248	PASS
PITX3	10	102230186	102241474	-0.414937136	PASS
PIWIL1	12	130337887	130372637	0.028722739	PASS
PIWIL2	8	22275297	22357563	-0.311940419	PASS
PIWIL3	22	24719034	24774720	-0.740245994	PASS
PIWIL4	11	94543840	94621421	0.064535884	PASS
PJA1	23	69160851	69165793	0.158844052	PASS
PJA2	5	109334709	109409994	-0.393084436	PASS
PJVK	2	178451346	178461409	0.033541467	PASS
PKD1	16	2088710	2135898	0.053595371	PASS
PKD1L1	7	47740202	47948491	-0.72421718	PASS
PKD1L3	16	71929538	71999978	-0.423061015	PASS
PKD1P1	16	16317444	16350590	0.053595371	PASS
PKD2	4	88007668	88077777	-0.677982248	PASS
PKD2L1	10	100288154	100330486	-0.414937136	PASS
PKD2L2	5	137887968	137942747	-0.393084436	PASS
PKDCC	2	42048020	42058528	0.034263343	PASS
PKDREJ	22	46255663	46263355	-0.953096644	PASS
PKHD1	6	51615300	52087625	0.239805577	suppress_segment_too_large
PKHD1L1	8	109362477	109530330	0.70944438	suppress_segment_too_large
PKIA	8	78516139	78605267	0.617295349	suppress_segment_too_large
PKIB	6	122471917	122726373	-1.845658544	PASS
PKIG	20	44531785	44624247	-0.172056771	suppress_segment_too_large
PKLR	1	155289293	155301438	0.088103245	PASS
PKM	15	72199029	72231822	-0.759380635	PASS
PKMYT1	16	2968024	2980539	0.053595371	PASS
PKN1	19	14433053	14471867	-0.069222905	PASS

PKN2	1	88684222	88836255	0.079255572	PASS
PKN3	9	128702523	128720918	0.073960965	PASS
PKNOX1	21	42974510	43033931	0.209983559	PASS
PKNOX2	11	125164687	125433389	-0.431650509	PASS
PKP1	1	201283452	201332993	-0.204996646	suppress_segment_too_large
PKP2	12	32790745	32896840	0.49032213	suppress_segment_too_large
PKP3	11	392614	404908	-0.39835217	PASS
PKP4	2	158456964	158682879	0.054749241	PASS
PLA1A	3	119597842	119629811	0.06434429	PASS
PLA2G10	16	14672545	14694669	0.053595371	PASS
PLA2G12A	4	109709989	109730077	-0.677982248	PASS
PLA2G12B	10	72935170	72954778	0.032351597	PASS
PLA2G15	16	68245304	68261062	-0.423061015	PASS
PLA2G16	11	63573195	63616883	0.064535884	PASS
PLA2G1B	12	120322111	120327789	0.028722739	PASS
PLA2G2A	1	19975431	19980416	0.048749694	PASS
PLA2G2C	1	20161253	20177424	0.048749694	PASS
PLA2G2D	1	20111939	20119566	0.048749694	PASS
PLA2G2E	1	19920009	19923617	0.048749694	PASS
PLA2G2F	1	20139326	20150386	0.048749694	PASS
PLA2G3	22	31134809	31140607	-0.740245994	PASS
PLA2G4A	1	186828953	186988981	0.088103245	PASS
PLA2G4B	15	41837775	41848147	-0.423772929	PASS
PLA2G4C	19	48047843	48110817	0.002743503	PASS
PLA2G4D	15	42067009	42094554	-0.423772929	PASS
PLA2G4E	15	41981582	42051190	-0.423772929	PASS
PLA2G4F	15	42139034	42156636	-0.423772929	PASS
PLA2G5	1	20028179	20091190	0.048749694	PASS
PLA2G6	22	38111495	38205690	-0.740245994	PASS
PLA2G7	6	46704201	46735693	0.239805577	suppress_segment_too_large
PLA2R1	2	159932006	160062610	0.054749241	PASS
PLAA	9	26904083	26947463	0.073960965	PASS
PLAC1	23	134565838	134764322	0.158844052	PASS
PLAC8	4	83090048	83137075	-0.677982248	PASS
PLAC8L1	5	146084386	146104369	-0.393084436	PASS
PLAC9	10	80131682	80145359	0.032351597	PASS
PLAG1	8	56160904	56211324	0.182873287	suppress_segment_too_large
PLAGL1	6	143940300	144064599	0.033894706	PASS
PLAGL2	20	32192503	32207791	-0.172056771	suppress_segment_too_large
PLAT	8	42175233	42207724	0.182873287	suppress_segment_too_large
PLAU	10	73909177	73917497	0.032351597	PASS
PLAUR	19	43646095	43670547	0.048917043	PASS
PLB1	2	28457145	28643788	0.034263343	PASS
PLBD1	12	14503661	14568349	0.49032213	suppress_segment_too_large
PLBD2	12	113358566	113391625	0.028722739	PASS
PLCB1	20	8077251	8968360	-0.172056771	suppress_segment_too_large
PLCB2	15	40278176	40307935	-0.423772929	PASS
PLCB3	11	64251523	64269150	0.064535884	PASS
PLCB4	20	9068763	9481242	-0.172056771	suppress_segment_too_large
PLCD1	3	38007496	38029762	-0.727808231	PASS
PLCD3	17	45108967	45133354	0.051798665	PASS
PLCD4	2	218607765	218637184	0.011001208	PASS
PLCE1	10	94030812	94332823	-0.414937136	PASS
PLCG1	20	41136960	41196801	-0.172056771	suppress_segment_too_large

PLCG2	16	81739097	81962693	-0.423061015	PASS
PLCH1	3	155375580	155745067	0.02267528	PASS
PLCH2	1	2425980	2505530	-0.358281697	PASS
PLCL1	2	197804702	198572581	0.011001208	PASS
PLCL2	3	16802651	17090594	0.06149513	PASS
PLCXD1	23	276322	303356	-0.350651546	PASS
PLCXD2	3	111674676	111846447	0.06434429	PASS
PLCXD3	5	41306954	41510628	-0.284712224	PASS
PLCZ1	12	18683169	18738100	0.49032213	suppress_segment_too_large
PLD1	3	171600405	171810950	0.02267528	PASS
PLD2	17	4807096	4823434	0.06854245	PASS
PLD3	19	40348456	40380439	0.048917043	PASS
PLD4	14	104924713	104937790	-0.155273506	suppress_segment_too_large
PLD5	1	242082986	242524696	-0.287484925	PASS
PLD6	17	17200995	17206315	0.06854245	PASS
PLEC	8	143915147	143976734	0.699132336	PASS
PLEK	2	68365173	68397453	-0.46122572	PASS
PLEK2	14	67386983	67412200	0.053252507	PASS
PLEKHA1	10	122374696	122442602	0.073090211	PASS
PLEKHA2	8	38901235	38973909	0.182873287	suppress_segment_too_large
PLEKHA3	2	178480468	178516462	0.033541467	PASS
PLEKHA4	19	48837097	48868632	0.002743503	PASS
PLEKHA5	12	19129752	19376400	0.49032213	suppress_segment_too_large
PLEKHA6	1	204218851	204377665	-0.204996646	suppress_segment_too_large
PLEKHA7	11	16777317	17014443	-0.39835217	PASS
PLEKHA8	7	30027404	30130483	-0.72421718	PASS
PLEKHB1	11	73646178	73662819	0.064535884	PASS
PLEKHB2	2	131104847	131353709	-0.359440172	PASS
PLEKHD1	14	69484692	69531551	0.053252507	PASS
PLEKHF1	19	29665056	29675457	0.044838622	PASS
PLEKHF2	8	95133804	95156684	0.355469066	suppress_segment_too_large
PLEKHG1	6	150599883	150843665	0.033894706	PASS
PLEKHG2	19	39412585	39428415	0.048917043	PASS
PLEKHG3	14	64704102	64750247	0.053252507	PASS
PLEKHG4	16	67277510	67289499	-0.423061015	PASS
PLEKHG4	5	92151	189972	0.073527871	PASS
PLEKHG5	1	6466092	6520061	0.364796772	PASS
PLEKHG6	12	6310436	6328506	-0.015029783	PASS
PLEKHG7	12	92702843	92772455	0.271127429	suppress_segment_too_large
PLEKHH1	14	67533301	67589612	0.053252507	PASS
PLEKHH2	2	43637273	43767987	0.034263343	PASS
PLEKHH3	17	42667914	42676994	0.041294512	PASS
PLEKHJ1	19	2230084	2237704	-0.071973357	PASS
PLEKHM1	17	45435900	45490749	0.051798665	PASS
PLEKHM2	1	15684332	15734769	0.048749694	PASS
PLEKHM3	2	207821288	208025560	0.011001208	PASS
PLEKHN1	1	966497	975865	-0.358281697	PASS
PLEKHO1	1	150149183	150164720	0.079255572	PASS
PLEKHO2	15	64841883	64868007	-0.759380635	PASS
PLEKHS1	10	113751454	113783429	0.073090211	PASS
PLET1	11	112248479	112260860	-0.431650509	PASS
PLG	6	160702238	160753315	0.033894706	PASS
PLGLB2	2	87748087	87758793	0.064122364	PASS
PLGRKT	9	5357973	5437878	0.073960965	PASS

PLIN1	15	89664365	89679427	-0.759380635	PASS
PLIN2	9	19108375	19149290	0.073960965	PASS
PLIN3	19	4838341	4867768	-0.071973357	PASS
PLIN4	19	4502180	4518465	-0.071973357	PASS
PLIN5	19	4522531	4535224	-0.071973357	PASS
PLK1	16	23677656	23690367	0.053595371	PASS
PLK2	5	58453982	58460260	-0.284712224	PASS
PLK3	1	44800225	44805990	-0.736943052	PASS
PLK4	4	127880861	127899195	0.142431244	suppress_segment_too_large
PLK5	19	1524074	1536046	-0.071973357	PASS
PLLP	16	57248547	57284687	-0.423061015	PASS
PLN	6	118548298	118560730	-0.355603029	PASS
PLOD1	1	11934205	11975538	0.364796772	PASS
PLOD2	3	146069440	146163653	0.02267528	PASS
PLOD3	7	101205977	101218420	-0.712149877	PASS
PLP1	23	103773718	103792619	0.158844052	PASS
PLP2	23	49171926	49175239	0.158844052	PASS
PLPBP	8	37762593	37779767	0.182873287	suppress_segment_too_large
PLPP1	5	55424854	55535050	-0.284712224	PASS
PLPP2	19	281040	291504	0.069117079	PASS
PLPP3	1	56494747	56645301	-0.736943052	PASS
PLPP4	10	120456954	120589855	0.073090211	PASS
PLPP5	8	38263130	38269243	0.182873287	suppress_segment_too_large
PLPP6	9	4662315	4665258	0.073960965	PASS
PLPP7	9	131289459	131359022	0.073960965	PASS
PLPPR1	9	101028709	101325135	0.073960965	PASS
PLPPR2	19	11355386	11365698	-0.107594294	PASS
PLPPR3	19	812488	821977	-0.071973357	PASS
PLPPR4	1	99263953	99309590	0.079255572	PASS
PLPPR5	1	98890245	99005032	0.079255572	PASS
PLRG1	4	154535006	154550435	0.142431244	suppress_segment_too_large
PLS1	3	142596387	142713664	0.02267528	PASS
PLS3	23	115561174	115650861	0.158844052	PASS
PLSCR1	3	146515180	146544864	0.02267528	PASS
PLSCR2	3	146391421	146495991	0.02267528	PASS
PLSCR3	17	7389727	7394843	0.06854245	PASS
PLSCR4	3	146192339	146251179	0.02267528	PASS
PLSCR5	3	146576555	146606216	0.02267528	PASS
PLTP	20	45898621	45912155	-0.172056771	suppress_segment_too_large
PLVAP	19	17351448	17377350	-0.069222905	PASS
PLXDC1	17	39063303	39154394	0.041294512	PASS
PLXDC2	10	19816239	20289856	0.075711544	PASS
PLXNA1	3	126988594	127037392	0.06434429	PASS
PLXNA2	1	208022242	208244320	-0.204996646	suppress_segment_too_large
PLXNA3	23	154458281	154477779	0.158844052	PASS
PLXNA4	7	132123332	132648688	-0.712149877	PASS
PLXNB1	3	48403854	48430051	-0.727808231	PASS
PLXNB2	22	50274979	50307627	-0.953096644	PASS
PLXNB3	23	153764196	153779346	0.158844052	PASS
PLXNC1	12	94148723	94307675	0.028722739	PASS
PLXND1	3	129555175	129606818	0.06434429	PASS
PM20D1	1	205828022	205850132	-0.204996646	suppress_segment_too_large
PM20D2	6	89146050	89165565	-0.355603029	PASS
PMAIP1	18	59899948	59904306	-0.330515409	PASS

PMCH	12	102196459	102197845	0.028722739	PASS
PMEL	12	55954105	55973317	-0.743220499	PASS
PMEPA1	20	57648392	57711536	-0.172056771	suppress_segment_too_large
PMF1	1	156212993	156240042	0.088103245	PASS
PMF1-BGI	1	156212982	156243332	0.088103245	PASS
PMFBP1	16	72112157	72176878	-0.423061015	PASS
PML	15	73994673	74047812	-0.759380635	PASS
PMM1	22	41576894	41589890	-0.740245994	PASS
PMM2	16	8788823	8849331	0.053595371	PASS
PMP2	8	81440326	81447523	0.617295349	suppress_segment_too_large
PMP22	17	15229777	15265357	0.06854245	PASS
PMPCA	9	136410570	136423761	0.073960965	PASS
PMPCB	7	103297422	103329511	-0.712149877	PASS
PMS1	2	189784085	189877629	0.011001208	PASS
PMS2	7	5973239	6009125	-0.72421718	PASS
PMVK	1	154924734	154936991	0.088103245	PASS
PNCK	23	153669730	153689010	0.158844052	PASS
PNISR	6	99398051	99425331	-0.355603029	PASS
PNKD	2	218270392	218346793	0.011001208	PASS
PNKP	19	49859882	49878351	0.002743503	PASS
PNLDC1	6	159800249	159820704	0.033894706	PASS
PNLIP	10	116545931	116567855	0.073090211	PASS
PNLIPRP1	10	116590385	116609175	0.073090211	PASS
PNLIPRP3	10	116427867	116477957	0.073090211	PASS
PNMA1	14	73711783	73714372	0.053252507	PASS
PNMA2	8	26504686	26514092	-0.311940419	PASS
PNMA3	23	153056409	153060467	0.158844052	PASS
PNMA5	23	152988824	152994127	0.158844052	PASS
PNMA6A	23	153072482	153075018	0.158844052	PASS
PNMA6E	23	153395640	153401420	0.158844052	PASS
PNMA6F	23	153317681	153321822	0.158844052	PASS
PNMA8A	19	46466491	46471563	0.002743503	PASS
PNMA8B	19	46486906	46496498	0.002743503	PASS
PNMT	17	39667981	39670475	0.041294512	PASS
PNN	14	39175183	39183218	0.053252507	PASS
PNO1	2	68157844	68176238	-0.46122572	PASS
PNOC	8	28316986	28343355	-0.311940419	PASS
PNP	14	20468954	20477094	0.053252507	PASS
PNPLA1	6	36243203	36312229	0.028532667	PASS
PNPLA2	11	818902	825573	-0.39835217	PASS
PNPLA3	22	43923739	43964488	-0.953096644	PASS
PNPLA4	23	7898247	7927739	0.158844052	PASS
PNPLA5	22	43879678	43892013	-0.740245994	PASS
PNPLA6	19	7534004	7561764	-0.071973357	PASS
PNPLA7	9	137459953	137550534	0.073960965	PASS
PNPLA8	7	108470422	108569666	-0.712149877	PASS
PNPO	17	47941506	47949308	0.051798665	PASS
PNPT1	2	55634265	55693910	-0.052193497	PASS
PNRC1	6	89080751	89085160	-0.355603029	PASS
PNRC2	1	23956839	23963462	0.048749694	PASS
POC1A	3	52075253	52154690	-0.727808231	PASS
POC1B	12	89419718	89526024	0.271127429	suppress_segment_too_large
POC1B-GA	12	89519408	89526262	0.271127429	suppress_segment_too_large
POC5	5	75674124	75717481	-0.393084436	PASS

PODN	1	53062052	53085502	-0.736943052	PASS
PODNL1	19	13931187	13953392	-0.069222905	PASS
PODXL	7	131500262	131558217	-0.712149877	PASS
PODXL2	3	127629181	127672809	0.06434429	PASS
POF1B	23	85277396	85379743	0.158844052	PASS
POFUT1	20	32207880	32238667	-0.172056771	suppress_segment_too_large
POFUT2	21	45263928	45287898	0.209983559	PASS
POGK	1	166839447	166856344	0.088103245	PASS
POGLUT1	3	119468938	119494708	0.06434429	PASS
POGZ	1	151402724	151459465	0.079255572	PASS
POLA1	23	24693919	24996986	0.158844052	PASS
POLA2	11	65261762	65305589	0.064535884	PASS
POLB	8	42338454	42371808	0.182873287	suppress_segment_too_large
POLD1	19	50384204	50418016	0.002743503	PASS
POLD2	7	44114681	44124358	-0.72421718	PASS
POLD3	11	74493851	74669117	0.064535884	PASS
POLD4	11	67350777	67356972	0.064535884	PASS
POLDIP2	17	28347177	28357522	0.041294512	PASS
POLDIP3	22	42583721	42614962	-0.740245994	PASS
POLE	12	132623753	132687365	0.028722739	PASS
POLE2	14	49643555	49688422	0.053252507	PASS
POLE3	9	113407235	113410672	0.073960965	PASS
POLE4	2	74958492	74970128	-0.46122572	PASS
POLG	15	89305198	89334861	-0.759380635	PASS
POLG2	17	64477785	64497036	0.051798665	PASS
POLH	6	43576150	43615660	0.028532667	PASS
POLI	18	54269404	54321266	-0.330515409	PASS
POLK	5	75511756	75601144	-0.393084436	PASS
POLL	10	101578882	101588270	-0.414937136	PASS
POLM	7	44072247	44082540	-0.72421718	PASS
POLN	4	2071918	2242121	-0.358623662	PASS
POLQ	3	121431427	121546641	0.06434429	PASS
POLR1A	2	86020216	86106155	0.064122364	PASS
POLR1B	2	112541915	112577150	0.040971718	PASS
POLR1C	6	43509702	43562419	0.028532667	PASS
POLR1D	13	27620742	27744237	-0.398748891	PASS
POLR1E	9	37485935	37503697	0.073960965	PASS
POLR2A	17	7484366	7514616	0.06854245	PASS
POLR2B	4	56977722	57031168	0.115781418	suppress_segment_too_large
POLR2C	16	57462387	57472010	-0.423061015	PASS
POLR2D	2	127843551	127858157	-0.359440172	PASS
POLR2E	19	1086579	1095380	-0.071973357	PASS
POLR2F	22	37952607	38041915	-0.740245994	PASS
POLR2G	11	62761544	62766710	0.064535884	PASS
POLR2H	3	184361718	184368596	0.02267528	PASS
POLR2I	19	36113710	36115346	0.044838622	PASS
POLR2J	7	102473118	102478907	-0.712149877	PASS
POLR2J2	7	102665368	102671629	-0.712149877	PASS
POLR2J3	7	102537918	102572653	-0.712149877	PASS
POLR2K	8	100150584	100154002	0.355469066	suppress_segment_too_large
POLR2L	11	837356	842545	-0.39835217	PASS
POLR2M	15	57706629	57782762	-0.759380635	PASS
POLR3A	10	77969251	78029545	0.032351597	PASS
POLR3B	12	106357658	106510198	0.028722739	PASS

POLR3C	1	145824088	145842505	0.079255572	PASS
POLR3D	8	22245104	22254600	-0.311940419	PASS
POLR3E	16	22297375	22335103	0.053595371	PASS
POLR3F	20	18467127	18484643	-0.172056771	suppress_segment_too_large
POLR3G	5	90471748	90514553	-0.393084436	PASS
POLR3GL	1	145964702	145978848	0.079255572	PASS
POLR3H	22	41525804	41544606	-0.740245994	PASS
POLR3K	16	46407	53628	0.053595371	PASS
POLRMT	19	617224	633604	-0.071973357	PASS
POM121	7	72879365	72951440	-0.701511252	PASS
POM121C	7	75416787	75486271	-0.701511252	PASS
POM121L	7	53035642	53036924	-0.701511252	PASS
POM121L	6	27285903	27312170	0.069043418	PASS
POMC	2	25160853	25168903	0.034263343	PASS
POMGNT	1	46188682	46220305	-0.736943052	PASS
POMGNT	3	43079232	43106076	-0.727808231	PASS
POMK	8	43093506	43123434	0.182873287	suppress_segment_too_large
POMP	13	28659104	28678925	-0.398748891	PASS
POMT1	9	131502902	131523806	0.073960965	PASS
POMT2	14	77274956	77320884	-0.155273506	suppress_segment_too_large
POMZP3	7	76609986	76627261	-0.701511252	PASS
PON1	7	95297676	95324707	-0.710463272	PASS
PON2	7	95404863	95435329	-0.710463272	PASS
PON3	7	95359944	95396368	-0.710463272	PASS
POP1	8	98117297	98159834	0.355469066	suppress_segment_too_large
POP4	19	29604017	29617237	0.044838622	PASS
POP5	12	120578764	120581398	0.028722739	PASS
POP7	7	100706053	100707495	-0.710463272	PASS
POPDC2	3	119636457	119665324	0.06434429	PASS
POPDC3	6	105158280	105179995	-0.355603029	PASS
POR	7	75899200	75986855	-0.701511252	PASS
PORCN	23	48508962	48520814	0.158844052	PASS
POSTN	13	37562583	37598844	-0.398748891	PASS
POT1	7	124822386	124929983	-0.712149877	PASS
POTEB3	15	21408243	21440451	-0.423772929	PASS
POTEC	18	14507339	14543585	0.044197172	PASS
POTED	21	13609858	13641585	0.758930684	suppress_segment_too_large
POTEE	2	131218067	131265278	-0.359440172	PASS
POTEF	2	130074030	130129222	-0.359440172	PASS
POTEG	14	19402486	19434341	0.053252507	PASS
POTEH	22	15690026	15721631	-0.740245994	PASS
POTEI	2	130459455	130509666	-0.359440172	PASS
POTEJ	2	130611481	130658091	-0.359440172	PASS
POTEM	14	18967434	18999012	0.053252507	PASS
POU1F1	3	87259404	87276587	0.22470242	PASS
POU2AF1	11	111352252	111455630	-0.431650509	PASS
POU2F1	1	167220829	167427345	0.088103245	PASS
POU2F2	19	42086110	42196585	0.048917043	PASS
POU2F3	11	120236640	120319944	-0.431650509	PASS
POU3F1	1	38044611	38046794	0.048749694	PASS
POU3F2	6	98834592	98839470	-0.355603029	PASS
POU3F3	2	104855511	104858574	-0.439572519	PASS
POU3F4	23	83508261	83512127	0.158844052	PASS
POU4F1	13	78598362	78603560	-0.384313056	PASS

POU4F2	4	146638893	146642474	0.142431244	suppress_segment_too_large
POU4F3	5	146338839	146341722	-0.393084436	PASS
POU5F1	6	31164337	31180731	0.069043418	PASS
POU5F1B	8	127322183	127420066	0.493344802	suppress_segment_too_large
POU5F2	5	93733220	93741637	-0.393084436	PASS
POU6F1	12	51186936	51217708	-0.743220499	PASS
POU6F2	7	38977998	39493095	-0.72421718	PASS
PP2D1	3	19979961	20012330	0.06149513	PASS
PPA1	10	70202830	70233911	0.032351597	PASS
PPA2	4	105369077	105474081	-0.677982248	PASS
PPAN	19	10106289	10111634	-0.107594294	PASS
PPAN-P2R	19	10106223	10114780	-0.107594294	PASS
PPARA	22	46150521	46243756	-0.953096644	PASS
PPARD	6	35342558	35428191	0.028532667	PASS
PPARG	3	12287368	12434356	0.06149513	PASS
PPARGC1	4	23755041	23904089	-0.358623662	PASS
PPARGC1	5	149730298	149855022	-0.393084436	PASS
PPAT	4	56393362	56435615	0.115781418	suppress_segment_too_large
PPBP	4	73987038	73988197	0.115781418	suppress_segment_too_large
PPCDC	15	75023555	75117462	-0.759380635	PASS
PPCS	1	42456117	42473385	-0.736943052	PASS
PPDPF	20	63520724	63522206	-0.172056771	suppress_segment_too_large
PPDPFL	8	49054311	49076090	0.182873287	suppress_segment_too_large
PPEF1	23	18675909	18827921	0.158844052	PASS
PPEF2	4	75859864	75902571	-0.677982248	PASS
PPFIA1	11	70270700	70385312	0.064535884	PASS
PPFIA2	12	81257975	81759553	0.271127429	suppress_segment_too_large
PPFIA3	19	49119389	49151026	0.002743503	PASS
PPFIA4	1	203026498	203078740	-0.204996646	suppress_segment_too_large
PPFIBP1	12	27523431	27695564	0.49032213	suppress_segment_too_large
PPFIBP2	11	7513298	7657127	-0.39835217	PASS
PPHLN1	12	42238447	42459715	-0.46813528	PASS
PPIA	7	44796680	44824564	-0.72421718	PASS
PPIAL4A	1	120889746	120890405	0.079255572	PASS
PPIAL4C	1	149583865	149584464	0.079255572	PASS
PPIAL4G	1	148479824	148483679	0.079255572	PASS
PPIB	15	64155812	64163205	-0.759380635	PASS
PPIC	5	123023250	123036741	-0.393084436	PASS
PPID	4	158709134	158723396	0.142431244	suppress_segment_too_large
PPIE	1	39692182	39763914	0.048749694	PASS
PPIF	10	79347469	79355337	0.032351597	PASS
PPIG	2	169584340	169641406	0.033541467	PASS
PPIH	1	42658425	42676758	-0.736943052	PASS
PPIL1	6	36854827	36875024	0.028532667	PASS
PPIL2	22	21666009	21700015	-0.740245994	PASS
PPIL3	2	200870907	200889303	0.011001208	PASS
PPIL4	6	149504733	149546038	0.033894706	PASS
PPIL6	6	109390215	109441171	-0.355603029	PASS
PPIP5K1	15	43533462	43590253	-0.423772929	PASS
PPIP5K2	5	103120149	103212799	-0.393084436	PASS
PPL	16	4882507	4960741	0.053595371	PASS
PPM1A	14	60245752	60299087	0.053252507	PASS
PPM1B	2	44167969	44244384	0.034263343	PASS
PPM1D	17	60600183	60666280	0.051798665	PASS

PPM1E	17	58755869	58985176	0.051798665	PASS
PPM1F	22	21919420	21952837	-0.740245994	PASS
PPM1G	2	27381194	27409687	0.034263343	PASS
PPM1H	12	62643982	62935037	-0.743220499	PASS
PPM1J	1	112709994	112715477	0.079255572	PASS
PPM1K	4	88257620	88284769	-0.677982248	PASS
PPM1L	3	160755602	161078907	0.02267528	PASS
PPM1M	3	52245793	52250597	-0.727808231	PASS
PPM1N	19	45488777	45502510	0.002743503	PASS
PPME1	11	74171099	74254703	0.064535884	PASS
PPOX	1	161166410	161178013	0.088103245	PASS
PPP1CA	11	67398183	67421183	0.064535884	PASS
PPP1CB	2	28751640	28802940	0.034263343	PASS
PPP1CC	12	110719680	110742939	0.028722739	PASS
PPP1R10	6	30600400	30618612	0.069043418	PASS
PPP1R11	6	30066709	30070333	0.069043418	PASS
PPP1R12A	12	79773563	79935460	0.271127429	suppress_segment_too_large
PPP1R12B	1	202348699	202592706	-0.204996646	suppress_segment_too_large
PPP1R12C	19	55090913	55117559	0.142581352	PASS
PPP1R13B	14	103733195	103847590	-0.155273506	suppress_segment_too_large
PPP1R13L	19	45379634	45406349	0.002743503	PASS
PPP1R14A	19	38251237	38256591	0.048917043	PASS
PPP1R14B	11	64244480	64246941	0.064535884	PASS
PPP1R14C	6	150143076	150250357	0.033894706	PASS
PPP1R14D	15	40815445	40828709	-0.423772929	PASS
PPP1R15A	19	48872392	48876057	0.002743503	PASS
PPP1R15B	1	204403387	204411791	-0.204996646	suppress_segment_too_large
PPP1R16A	8	144477969	144502121	0.699132336	PASS
PPP1R16B	20	38805705	38923024	-0.172056771	suppress_segment_too_large
PPP1R17	7	31686715	31708455	-0.72421718	PASS
PPP1R18	6	30676389	30687895	0.069043418	PASS
PPP1R1A	12	54575387	54588659	-0.743220499	PASS
PPP1R1B	17	39626740	39636626	0.041294512	PASS
PPP1R1C	2	181954241	182131398	0.162734012	PASS
PPP1R2	3	195514425	195543386	0.02267528	PASS
PPP1R21	2	48440598	48515391	0.034263343	PASS
PPP1R26	9	135479079	135488893	0.073960965	PASS
PPP1R27	17	81833492	81835050	0.051798665	PASS
PPP1R2B	5	156850538	156852528	-0.393084436	PASS
PPP1R32	11	61481120	61490931	0.064535884	PASS
PPP1R35	7	100435282	100436565	-0.710463272	PASS
PPP1R36	14	64549902	64589380	0.053252507	PASS
PPP1R37	19	45091396	45148077	0.002743503	PASS
PPP1R3A	7	113876777	114075920	-0.712149877	PASS
PPP1R3B	8	9136255	9151574	-0.311940419	PASS
PPP1R3C	10	91628442	91633054	-0.414937136	PASS
PPP1R3D	20	59936668	59940297	-0.172056771	suppress_segment_too_large
PPP1R3E	14	23295643	23302848	0.053252507	PASS
PPP1R3F	23	49269843	49301461	0.158844052	PASS
PPP1R3G	6	5084581	5089487	0.069043418	PASS
PPP1R42	8	66964099	67056604	0.182873287	suppress_segment_too_large
PPP1R7	2	241149576	241183652	0.011001208	PASS
PPP1R8	1	27830778	27851676	0.048749694	PASS
PPP1R9A	7	94907202	95296415	-0.710463272	PASS

PPP1R9B	17	50133735	50150630	0.051798665	PASS
PPP2CA	5	134194334	134226142	-0.393084436	PASS
PPP2CB	8	30774457	30814314	-0.311940419	PASS
PPP2R1A	19	52190039	52229533	0.416834572	PASS
PPP2R1B	11	111726908	111766427	-0.431650509	PASS
PPP2R2A	8	26291491	26372680	-0.311940419	PASS
PPP2R2B	5	146581146	147084784	-0.393084436	PASS
PPP2R2C	4	6320578	6563600	-0.358623662	PASS
PPP2R2D	10	131900644	131959834	0.073090211	PASS
PPP2R3A	3	135965673	136147891	0.06434429	PASS
PPP2R3B	23	333963	386955	-0.350651546	PASS
PPP2R3C	14	35085467	35122517	0.053252507	PASS
PPP2R5A	1	212285537	212361863	-0.204996646	suppress_segment_too_large
PPP2R5B	11	64917553	64934473	0.064535884	PASS
PPP2R5C	14	101761798	101927989	-0.155273506	suppress_segment_too_large
PPP2R5D	6	42984499	43012342	0.028532667	PASS
PPP2R5E	14	63371357	63543374	0.053252507	PASS
PPP3CA	4	101023409	101348278	-0.677982248	PASS
PPP3CB	10	73436428	73496024	0.032351597	PASS
PPP3CC	8	22440819	22541142	-0.311940419	PASS
PPP3R1	2	68178857	68256237	-0.46122572	PASS
PPP3R2	9	101591615	101595021	0.073960965	PASS
PPP4C	16	30075978	30085377	0.053595371	PASS
PPP4R1	18	9546791	9615240	0.044197172	PASS
PPP4R2	3	72996785	73069199	-0.727808231	PASS
PPP4R3A	14	91457611	91510554	-0.155273506	suppress_segment_too_large
PPP4R3B	2	55547292	55618880	-0.052193497	PASS
PPP4R4	14	94146128	94279735	-0.155273506	suppress_segment_too_large
PPP5C	19	46346994	46392981	0.002743503	PASS
PPP5D1	19	46480796	46601200	0.002743503	PASS
PPP6C	9	125146573	125189939	0.073960965	PASS
PPP6R1	19	55229780	55258995	0.142581352	PASS
PPP6R2	22	50343304	50445090	-0.953096644	PASS
PPP6R3	11	68460731	68615334	0.064535884	PASS
PPRC1	10	102132994	102150331	-0.414937136	PASS
PPT1	1	40071461	40097727	0.048749694	PASS
PPT2	6	32153441	32163680	0.028532667	PASS
PPT2-EGF	6	32153845	32171978	0.028532667	PASS
PPTC7	12	110533245	110583320	0.028722739	PASS
PPWD1	5	65563236	65587549	-0.393084436	PASS
PPY	17	43940804	43942468	0.051798665	PASS
PQBP1	23	48897912	48903143	0.158844052	PASS
PQLC1	18	79902420	79951664	-0.330515409	PASS
PQLC2	1	19312326	19329300	0.048749694	PASS
PQLC2L	3	157543246	157677749	0.02267528	PASS
PQLC3	2	11155198	11178874	0.034263343	PASS
PRAC1	17	48721719	48722522	0.051798665	PASS
PRAC2	17	48723168	48724758	0.051798665	PASS
PRADC1	2	73228006	73233238	-0.46122572	PASS
PRAF2	23	49071156	49074071	0.158844052	PASS
PRAG1	8	8317736	8386498	-0.311940419	PASS
PRAM1	19	8490056	8503112	-0.071973357	PASS
PRAME	22	22547701	22559361	-0.740245994	PASS
PRAMEF1	1	12791397	12796628	0.048749694	PASS

PRAMEF1	1	12892896	12898270	0.048749694	PASS
PRAMEF1	1	12824605	12831410	0.048749694	PASS
PRAMEF1	1	12774841	12777906	0.048749694	PASS
PRAMEF1	1	13196330	13201409	0.048749694	PASS
PRAMEF1	1	13342034	13347134	0.048749694	PASS
PRAMEF1	1	13315581	13322598	0.048749694	PASS
PRAMEF1	1	13389632	13392629	0.048749694	PASS
PRAMEF1	1	13222705	13226106	0.048749694	PASS
PRAMEF1	1	13369067	13371900	0.048749694	PASS
PRAMEF2	1	12857086	12861909	0.048749694	PASS
PRAMEF2	1	13410450	13421328	0.048749694	PASS
PRAMEF2	1	13148905	13155961	0.048749694	PASS
PRAMEF2	1	13049476	13056491	0.048749694	PASS
PRAMEF3	1	13303539	13308907	0.048749694	PASS
PRAMEF4	1	12879224	12886201	0.048749694	PASS
PRAMEF5	1	13254212	13263314	0.048749694	PASS
PRAMEF6	1	12938472	12947580	0.048749694	PASS
PRAMEF7	1	12916610	12920482	0.048749694	PASS
PRAMEF8	1	13281035	13285174	0.048749694	PASS
PRAMEF9	1	13172455	13179464	0.048749694	PASS
PRAP1	10	133347146	133352683	0.073090211	PASS
PRB1	12	11351823	11395566	0.49032213	suppress_segment_too_large
PRB2	12	11391540	11501041	0.49032213	suppress_segment_too_large
PRB3	12	11265924	11269805	0.49032213	suppress_segment_too_large
PRB4	12	11307083	11310435	0.49032213	suppress_segment_too_large
PRC1	15	90966038	90995629	-0.759380635	PASS
PRCC	1	156750610	156800817	0.088103245	PASS
PRCD	17	76527586	76553578	0.051798665	PASS
PRCP	11	82823502	82970584	0.064535884	PASS
PRDM1	6	106086320	106109939	-0.355603029	PASS
PRDM10	11	129899706	130002835	-0.431650509	PASS
PRDM11	11	45095806	45235110	0.059795455	PASS
PRDM12	9	130664594	130682981	0.073960965	PASS
PRDM13	6	99606730	99615578	-0.355603029	PASS
PRDM14	8	70051651	70071693	0.182873287	suppress_segment_too_large
PRDM15	21	41798225	41879482	0.209983559	PASS
PRDM16	1	3069168	3438621	-0.358281697	PASS
PRDM2	1	13700198	13825079	0.048749694	PASS
PRDM4	12	107732866	107761272	0.028722739	PASS
PRDM5	4	120684919	120922870	0.142431244	suppress_segment_too_large
PRDM6	5	123089121	123194266	-0.393084436	PASS
PRDM7	16	90056566	90092072	-0.423061015	PASS
PRDM8	4	80183879	80204329	-0.677982248	PASS
PRDM9	5	23443586	23528597	0.073527871	PASS
PRDX1	1	45511036	45523047	-0.736943052	PASS
PRDX2	19	12796820	12801859	-0.069222905	PASS
PRDX3	10	119167703	119178833	0.073090211	PASS
PRDX4	23	23664262	23686399	0.158844052	PASS
PRDX5	11	64318088	64321811	0.064535884	PASS
PRDX6	1	173477266	173488807	0.088103245	PASS
PREB	2	27130756	27134675	0.034263343	PASS
PRELID1	5	177303774	177306959	0.165341871	suppress_segment_too_large
PRELID2	5	145471799	145835369	-0.393084436	PASS
PRELID3A	18	12407896	12432238	0.044197172	PASS

PRELID3E	20	59033145	59042909	-0.172056771	suppress_segment_too_large
PRELP	1	203475828	203491352	-0.204996646	suppress_segment_too_large
PREP	6	105277565	105403084	-0.355603029	PASS
PREPL	2	44316281	44361862	0.034263343	PASS
PREX1	20	48624252	48827883	-0.172056771	suppress_segment_too_large
PREX2	8	67952118	68237030	0.182873287	suppress_segment_too_large
PRF1	10	70597348	70602775	0.032351597	PASS
PRG2	11	57386794	57390657	0.27006553	suppress_segment_too_large
PRG3	11	57376769	57381150	0.27006553	suppress_segment_too_large
PRG4	1	186296279	186314562	0.088103245	PASS
PRH1	12	10824960	11171608	1.742221027	PASS
PRH1-PRR	12	10845849	11171600	0.49032213	suppress_segment_too_large
PRH2	12	10929236	10932341	0.49032213	suppress_segment_too_large
PRICKLE1	12	42456757	42590355	-0.46813528	PASS
PRICKLE2	3	64092242	64445476	-0.727808231	PASS
PRICKLE3	23	49175264	49186528	0.158844052	PASS
PRICKLE4	6	41780762	41787372	0.028532667	PASS
PRIM1	12	56731596	56752373	-0.743220499	PASS
PRIM2	6	57314805	57646849	0.239805577	suppress_segment_too_large
PRIMA1	14	93718298	93788481	-0.155273506	suppress_segment_too_large
PRIMPOL	4	184649613	184694963	-0.453876349	PASS
PRKAA1	5	40759379	40798374	-0.284712224	PASS
PRKAA2	1	56645322	56715335	-0.736943052	PASS
PRKAB1	12	119667753	119681630	0.028722739	PASS
PRKAB2	1	147155106	147172550	0.079255572	PASS
PRKACA	19	14091688	14118084	-0.069222905	PASS
PRKACB	1	84078062	84238498	0.587598296	PASS
PRKACG	9	69012529	69014113	0.073960965	PASS
PRKAG1	12	49002274	49018825	-0.743220499	PASS
PRKAG2	7	151556111	151877125	-0.712149877	PASS
PRKAG3	2	218822383	218832086	0.011001208	PASS
PRKAR1A	17	68511780	68551319	0.051798665	PASS
PRKAR1B	7	549197	727650	-0.72421718	PASS
PRKAR2A	3	48744597	48847846	-0.727808231	PASS
PRKAR2B	7	107044649	107161811	-0.712149877	PASS
PRKCA	17	66302636	66810743	0.051798665	PASS
PRKCB	16	23835946	24220611	0.053595371	PASS
PRKCD	3	53156009	53192717	-0.727808231	PASS
PRKCE	2	45651345	46187990	0.034263343	PASS
PRKCG	19	53879190	53907652	0.142581352	PASS
PRKCH	14	61187559	61550976	0.053252507	PASS
PRKCI	3	170222365	170305981	0.02267528	PASS
PRKCQ	10	6427143	6580301	0.075711544	PASS
PRKCSH	19	11435288	11450968	-0.107594294	PASS
PRKCZ	1	2050470	2185395	-0.358281697	PASS
PRKD1	14	29576479	30191898	0.053252507	PASS
PRKD2	19	46674275	46717127	0.002743503	PASS
PRKD3	2	37250502	37324808	0.034263343	PASS
PRKDC	8	47773108	47960183	0.182873287	suppress_segment_too_large
PRKG1	10	50990891	52298350	-0.389033546	PASS
PRKG2	4	81087370	81215117	-0.677982248	PASS
PRKN	6	161347420	162727771	0.033894706	PASS
PRKRA	2	178431414	178451512	0.033541467	PASS
PRKRIP1	7	102363872	102426676	-0.712149877	PASS

PRKX	23	3604370	3713608	0.158844052	PASS
PRL	6	22287244	22297501	0.069043418	PASS
PRLH	2	237566574	237567175	0.011001208	PASS
PRLHR	10	118589989	118595699	0.073090211	PASS
PRLR	5	35048756	35230589	0.073527871	PASS
PRM1	16	11280836	11281350	0.053595371	PASS
PRM2	16	11275639	11276480	0.053595371	PASS
PRM3	16	11273218	11273641	0.053595371	PASS
PRMT1	19	49675786	49689029	0.002743503	PASS
PRMT2	21	46635167	46665124	0.209983559	PASS
PRMT3	11	20387530	20509294	-0.39835217	PASS
PRMT5	14	22920511	22929585	0.053252507	PASS
PRMT6	1	107056679	107067636	0.079255572	PASS
PRMT7	16	68310974	68358563	-0.423061015	PASS
PRMT8	12	3381349	3593973	-0.015029783	PASS
PRMT9	4	147637785	147684230	0.142431244	suppress_segment_too_large
PRND	20	4721910	4728460	-0.172056771	suppress_segment_too_large
PRNP	20	4686236	4701590	-0.172056771	suppress_segment_too_large
PROB1	5	139390592	139395713	-0.393084436	PASS
PROC	2	127418427	127429246	-0.359440172	PASS
PROCA1	17	28703197	28711854	0.041294512	PASS
PROCR	20	35172073	35216240	-0.172056771	suppress_segment_too_large
PRODH2	19	35799988	35813299	0.044838622	PASS
PROK1	1	110451200	110457354	0.079255572	PASS
PROK2	3	71771656	71785206	-0.727808231	PASS
PROKR1	2	68643589	68658247	-0.46122572	PASS
PROKR2	20	5302040	5314369	-0.172056771	suppress_segment_too_large
PROM1	4	15963076	16084378	-0.358623662	PASS
PROM2	2	95274453	95291308	0.064122364	PASS
PROP1	5	177992235	177996242	0.165341871	suppress_segment_too_large
PROS1	3	93873033	93980003	0.22470242	PASS
PROSER1	13	39009866	39038076	-0.398748891	PASS
PROSER2	10	11823339	11872277	0.075711544	PASS
PROSER3	19	35758143	35771028	0.044838622	PASS
PROX1	1	213983181	214041502	-0.204996646	suppress_segment_too_large
PROX2	14	74852871	74871940	-0.155273506	suppress_segment_too_large
PROZ	13	113158654	113172383	-0.426822582	PASS
PRPF18	10	13586927	13630868	0.075711544	PASS
PRPF19	11	60890730	60906588	0.064535884	PASS
PRPF3	1	150321476	150353195	0.079255572	PASS
PRPF31	19	54115410	54131719	0.142581352	PASS
PRPF38A	1	52404564	52420839	-0.736943052	PASS
PRPF38B	1	108692323	108701803	0.079255572	PASS
PRPF39	14	45084099	45116282	0.053252507	PASS
PRPF4	9	113275343	113292905	0.073960965	PASS
PRPF40A	2	152651593	152717997	-0.30549516	PASS
PRPF40B	12	49568218	49644666	-0.743220499	PASS
PRPF4B	6	4021267	4064983	0.069043418	PASS
PRPF6	20	63981135	64033100	-0.172056771	suppress_segment_too_large
PRPF8	17	1650629	1684882	0.06854245	PASS
PRPH	12	49293252	49298686	-0.743220499	PASS
PRPH2	6	42696600	42722574	0.028532667	PASS
PRPS1	23	107628424	107651026	0.158844052	PASS
PRPS1L1	7	18026774	18027863	-0.72421718	PASS

PRPS2	23	12791355	12824222	0.158844052	PASS
PRPSAP1	17	76309486	76384521	0.051798665	PASS
PRPSAP2	17	18840085	18931287	0.06854245	PASS
PRR11	17	59155499	59204705	0.051798665	PASS
PRR12	19	49591643	49626439	0.002743503	PASS
PRR13	12	53441605	53446645	-0.743220499	PASS
PRR14	16	30650717	30656440	0.053595371	PASS
PRR14L	22	31676256	31750140	-0.740245994	PASS
PRR15	7	29563811	29567295	-0.72421718	PASS
PRR15L	17	47951967	47957878	0.051798665	PASS
PRR16	5	120464278	120687332	-0.393084436	PASS
PRR18	6	166305300	166308448	0.033894706	PASS
PRR19	19	42302098	42310821	0.048917043	PASS
PRR22	19	5782960	5784765	-0.071973357	PASS
PRR23A	3	139005468	139006268	0.06434429	PASS
PRR23B	3	139019031	139020926	0.06434429	PASS
PRR23C	3	139042102	139044892	0.06434429	PASS
PRR23D1	8	7539628	7542450	-0.311940419	PASS
PRR26	10	649948	669581	0.075711544	PASS
PRR27	4	70133616	70176799	0.115781418	suppress_segment_too_large
PRR29	17	63998351	64004304	0.051798665	PASS
PRR3	6	30556886	30563723	0.069043418	PASS
PRR30	2	27136848	27139410	0.034263343	PASS
PRR32	23	126819764	126821786	0.158844052	PASS
PRR33	11	1888577	1891895	-0.39835217	PASS
PRR34	22	46049478	46054144	-0.953096644	PASS
PRR35	16	560422	565528	0.053595371	PASS
PRR36	19	7868719	7874379	-0.071973357	PASS
PRR4	12	10845849	10849475	0.49032213	suppress_segment_too_large
PRR5	22	44668547	44737681	-0.953096644	PASS
PRR5-ARH	22	44702233	44862706	-0.953096644	PASS
PRR5L	11	36296288	36465204	-0.359426047	PASS
PRR7	5	177446445	177456286	0.165341871	suppress_segment_too_large
PRR9	1	153217584	153219317	0.088103245	PASS
PRRC1	5	127517609	127555089	-0.393084436	PASS
PRRC2A	6	31620720	31637771	0.028532667	PASS
PRRC2B	9	131373636	131500197	0.073960965	PASS
PRRC2C	1	171485551	171593511	0.088103245	PASS
PRRG1	23	37349275	37457295	0.158844052	PASS
PRRG2	19	49580646	49591015	0.002743503	PASS
PRRG3	23	151695124	151705924	0.158844052	PASS
PRRG4	11	32829943	32858123	-0.359426047	PASS
PRRT1	6	32148359	32153083	0.028532667	PASS
PRRT2	16	29811382	29815892	0.053595371	PASS
PRRT3	3	9945542	9952394	0.06149513	PASS
PRRT4	7	128350325	128361685	-0.712149877	PASS
PRRX1	1	170662728	170739419	0.088103245	PASS
PRRX2	9	129665641	129722674	0.073960965	PASS
PRSS1	7	142749468	142753076	-0.712149877	PASS
PRSS12	4	118280038	118353003	-0.754119944	PASS
PRSS16	6	27247701	27256624	0.069043418	PASS
PRSS2	7	142760398	142774564	-0.712149877	PASS
PRSS21	16	2817180	2826304	0.053595371	PASS
PRSS22	16	2852727	2858170	0.053595371	PASS

PRSS23	11	86791059	86952910	0.064535884	PASS
PRSS27	16	2712418	2720551	0.053595371	PASS
PRSS3	9	33750466	33799231	0.073960965	PASS
PRSS33	16	2783953	2787948	0.053595371	PASS
PRSS35	6	83512538	83525704	-0.355603029	PASS
PRSS36	16	31138925	31150094	0.053595371	PASS
PRSS37	7	141836286	141841487	-0.712149877	PASS
PRSS38	1	227815693	227846470	-0.204996646	suppress_segment_too_large
PRSS41	16	2798485	2805302	0.053595371	PASS
PRSS42	3	46829542	46834095	-0.727808231	PASS
PRSS45	3	46742092	46744755	-0.727808231	PASS
PRSS48	4	151277171	151291453	0.142431244	suppress_segment_too_large
PRSS50	3	46712115	46812574	-0.727808231	PASS
PRSS51	8	10482878	10547585	-0.311940419	PASS
PRSS53	16	31083425	31089628	0.053595371	PASS
PRSS54	16	58279997	58295047	-0.423061015	PASS
PRSS55	8	10525546	10554166	-0.311940419	PASS
PRSS56	2	232520463	232525716	0.011001208	PASS
PRSS57	19	685546	695498	-0.071973357	PASS
PRSS58	7	142252143	142258058	-0.712149877	PASS
PRSS8	16	31131433	31135762	0.053595371	PASS
PRTFDC1	10	24848607	24952604	0.075711544	PASS
PRTG	15	55611546	55743090	-0.759380635	PASS
PRTN3	19	840960	848175	-0.071973357	PASS
PRUNE1	1	151008420	151035713	0.079255572	PASS
PRUNE2	9	76611376	76906087	0.073960965	PASS
PRX	19	40393768	40413366	0.048917043	PASS
PRXL2A	10	80407829	80437115	0.032351597	PASS
PRXL2B	1	2586491	2591469	-0.358281697	PASS
PRXL2C	9	96639577	96655303	0.073960965	PASS
PSAP	10	71816298	71851375	0.032351597	PASS
PSAPL1	4	7430294	7434973	-0.358623662	PASS
PSAT1	9	78297143	78330093	0.073960965	PASS
PSCA	8	142670308	142682724	0.699132336	PASS
PSD	10	102402617	102421539	-0.414937136	PASS
PSD2	5	139795821	139844466	-0.393084436	PASS
PSD3	8	18527301	19084730	-0.311940419	PASS
PSD4	2	113157325	113209396	0.040971718	PASS
PSEN1	14	73136418	73223691	0.053252507	PASS
PSEN2	1	226870184	226896105	-0.204996646	suppress_segment_too_large
PSENEN	19	35745114	35747519	0.044838622	PASS
PSG1	19	42866464	42879822	0.048917043	PASS
PSG11	19	43007656	43026512	0.048917043	PASS
PSG2	19	43064211	43083045	0.048917043	PASS
PSG3	19	42721638	42740569	0.048917043	PASS
PSG4	19	43192702	43207299	0.048917043	PASS
PSG5	19	43166256	43186536	0.048917043	PASS
PSG6	19	42902079	42919563	0.048917043	PASS
PSG7	19	42924132	42937178	0.048917043	PASS
PSG8	19	42752686	42855691	0.048917043	PASS
PSG9	19	43211791	43269530	0.048917043	PASS
PSIP1	9	15464066	15511019	0.073960965	PASS
PSKH1	16	67893272	67929678	-0.423061015	PASS
PSKH2	8	86048373	86088621	0.617295349	suppress_segment_too_large

PSMA1	11	14504874	14643635	-0.39835217	PASS
PSMA2	7	42916857	42932223	-0.72421718	PASS
PSMA3	14	58244831	58272012	0.053252507	PASS
PSMA4	15	78540405	78552419	-0.759380635	PASS
PSMA5	1	109399031	109426427	0.079255572	PASS
PSMA6	14	35278633	35317493	0.053252507	PASS
PSMA7	20	62136735	62143440	-0.172056771	suppress_segment_too_large
PSMA8	18	26133852	26193355	-0.330515409	PASS
PSMB1	6	170535117	170553341	0.033894706	PASS
PSMB10	16	67934502	67937087	-0.423061015	PASS
PSMB11	14	23042167	23044276	0.053252507	PASS
PSMB2	1	35599544	35641844	0.048749694	PASS
PSMB3	17	38752736	38764231	0.041294512	PASS
PSMB4	1	151399534	151401944	0.079255572	PASS
PSMB5	14	23016543	23035230	0.053252507	PASS
PSMB6	17	4796144	4798503	0.06854245	PASS
PSMB7	9	124353466	124415444	0.073960965	PASS
PSMB8	6	32840717	32844703	0.028532667	PASS
PSMB9	6	32844136	32859585	0.028532667	PASS
PSMC1	14	90256495	90275429	-0.155273506	suppress_segment_too_large
PSMC2	7	103344254	103369395	-0.712149877	PASS
PSMC3	11	47418769	47426473	0.059795455	PASS
PSMC3IP	17	42572315	42577831	0.041294512	PASS
PSMC4	19	39971005	39981441	0.048917043	PASS
PSMC5	17	63827152	63832026	0.051798665	PASS
PSMC6	14	52707172	52728587	0.053252507	PASS
PSMD1	2	231056864	231172827	0.011001208	PASS
PSMD10	23	108084207	108091618	0.158844052	PASS
PSMD11	17	32444261	32483318	0.041294512	PASS
PSMD12	17	67337916	67366627	0.051798665	PASS
PSMD13	11	236546	252984	-0.39835217	PASS
PSMD14	2	161308038	161411717	0.272442947	PASS
PSMD2	3	184298709	184309054	0.02267528	PASS
PSMD3	17	39980797	39997960	0.041294512	PASS
PSMD4	1	151254703	151267479	0.079255572	PASS
PSMD5	9	120815496	120842984	0.073960965	PASS
PSMD6	3	64010549	64024010	-0.727808231	PASS
PSMD7	16	74296775	74306288	-0.423061015	PASS
PSMD8	19	38374536	38383824	0.048917043	PASS
PSMD9	12	121888731	121918297	0.028722739	PASS
PSME1	14	24136158	24138967	0.053252507	PASS
PSME2	14	24143362	24147570	0.053252507	PASS
PSME3	17	42824385	42843758	0.041294512	PASS
PSME4	2	53864067	53970840	0.034263343	PASS
PSMF1	20	1113263	1189415	-0.172056771	suppress_segment_too_large
PSMG1	21	39174769	39183851	0.209983559	PASS
PSMG2	18	12658043	12725740	0.044197172	PASS
PSMG3	7	1567330	1571005	-0.72421718	PASS
PSMG4	6	3231403	3303373	0.069043418	PASS
PSORS1C1	6	31114750	31140092	0.069043418	PASS
PSORS1C2	6	31137536	31139350	0.069043418	PASS
PSPC1	13	19674752	19783019	-0.398748891	PASS
PSPH	7	56011051	56051604	-0.701511252	PASS
PSPN	19	6375148	6379058	-0.071973357	PASS

PSRC1	1	109279556	109283186	0.079255572	PASS
PSTK	10	122954381	122997513	0.073090211	PASS
PSTPIP1	15	76993359	77037332	-0.759380635	PASS
PSTPIP2	18	45983536	46072272	-0.330515409	PASS
PTAFR	1	28147166	28193936	0.048749694	PASS
PTAR1	9	69709522	69759959	0.073960965	PASS
PTBP1	19	797075	812327	-0.071973357	PASS
PTBP2	1	96721665	96823738	0.079255572	PASS
PTBP3	9	112217716	112333667	0.073960965	PASS
PTCD1	7	99416739	99466163	-0.710463272	PASS
PTCD2	5	72320367	72368395	-0.393084436	PASS
PTCD3	2	86106182	86142157	0.064122364	PASS
PTCH1	9	95442980	95517057	0.073960965	PASS
PTCH2	1	44819844	44843063	-0.736943052	PASS
PTCHD1	23	23334016	23404372	0.158844052	PASS
PTCHD4	6	47878028	48068689	0.239805577	suppress_segment_too_large
PTCRA	6	42915989	42925835	0.028532667	PASS
PTDSS1	8	96261715	96336995	0.355469066	suppress_segment_too_large
PTDSS2	11	448268	491399	-0.39835217	PASS
PTEN	10	87863113	87971930	-2.417109027	RESCUE
PTER	10	16436943	16513745	0.075711544	PASS
PTF1A	10	23192327	23194252	0.075711544	PASS
PTGDR	14	52267713	52276724	0.053252507	PASS
PTGDR2	11	60850940	60855971	0.064535884	PASS
PTGDS	9	136975092	136981742	0.073960965	PASS
PTGER1	19	14472466	14475362	-0.069222905	PASS
PTGER2	14	52314305	52328606	0.053252507	PASS
PTGER3	1	70852353	71047808	0.052232535	PASS
PTGER4	5	40679498	40693735	-0.284712224	PASS
PTGES	9	129738331	129753047	0.073960965	PASS
PTGES2	9	128120693	128128462	0.073960965	PASS
PTGES3	12	56663341	56688408	-0.743220499	PASS
PTGES3L	17	42968088	42980433	0.041294512	PASS
PTGES3L-	17	42950526	42980528	0.041294512	PASS
PTGFR	1	78303884	78539749	0.587598296	PASS
PTGFRN	1	116910057	116990358	0.079255572	PASS
PTGIR	19	46620468	46625118	0.002743503	PASS
PTGIS	20	49503874	49568146	-0.172056771	suppress_segment_too_large
PTGR1	9	111549722	111599893	0.073960965	PASS
PTGR2	14	73851844	73886827	0.053252507	PASS
PTGS1	9	122370530	122395703	0.073960965	PASS
PTGS2	1	186671791	186680427	0.088103245	PASS
PTH	11	13492055	13496181	-0.39835217	PASS
PTH1R	3	46877746	46903799	-0.727808231	PASS
PTH2	19	49422414	49423441	0.002743503	PASS
PTH2R	2	208359714	208854503	0.011001208	PASS
PTHLH	12	27958084	27972705	0.49032213	suppress_segment_too_large
PTK2	8	140657900	141002216	0.493344802	suppress_segment_too_large
PTK2B	8	27311482	27459391	-0.311940419	PASS
PTK6	20	63528001	63537370	-0.172056771	suppress_segment_too_large
PTK7	6	43076268	43161719	0.028532667	PASS
PTMA	2	231706895	231713541	0.011001208	PASS
PTMS	12	6765516	6770952	-0.015029783	PASS
PTN	7	137227341	137343865	-0.712149877	PASS

PTOV1	19	49850735	49860744	0.002743503	PASS
PTP4A1	6	63521746	63583377	0.239805577	suppress_segment_too_large
PTP4A2	1	31906421	31944856	0.048749694	PASS
PTP4A3	8	141391993	141432454	0.699132336	PASS
PTPA	9	129110950	129148946	0.073960965	PASS
PTPDC1	9	94030794	94109856	0.073960965	PASS
PTPMT1	11	47565430	47573461	0.059795455	PASS
PTPN1	20	50510321	50585241	-0.172056771	suppress_segment_too_large
PTPN11	12	112418351	112509913	0.028722739	PASS
PTPN12	7	77537275	77640071	-0.701511252	PASS
PTPN13	4	86594315	86815171	-0.677982248	PASS
PTPN14	1	214348696	214552449	-0.204996646	suppress_segment_too_large
PTPN18	2	130356007	130375409	-0.359440172	PASS
PTPN2	18	12785478	12929643	0.044197172	PASS
PTPN20	10	46911396	47002488	-0.389033546	PASS
PTPN21	14	88465778	88554733	-0.155273506	suppress_segment_too_large
PTPN22	1	113813811	113871759	0.079255572	PASS
PTPN23	3	47381011	47413441	-0.727808231	PASS
PTPN3	9	109375466	109498313	0.073960965	PASS
PTPN4	2	119759631	119983818	-0.359440172	PASS
PTPN5	11	18727928	18792721	-0.39835217	PASS
PTPN6	12	6946468	6961316	-0.015029783	PASS
PTPN7	1	202147013	202161588	-0.204996646	suppress_segment_too_large
PTPN9	15	75463251	75579289	-0.759380635	PASS
PTPRA	20	2864184	3039076	-0.172056771	suppress_segment_too_large
PTPRB	12	70515866	70637440	-0.578548701	PASS
PTPRC	1	198638457	198757476	0.088103245	PASS
PTPRCAP	11	67435510	67438067	0.064535884	PASS
PTPRD	9	8314246	10612723	0.073960965	PASS
PTPRE	10	127907061	128085855	0.073090211	PASS
PTPRF	1	43525187	43623666	-0.736943052	PASS
PTPRG	3	61561569	62297613	-0.727808231	PASS
PTPRH	19	55181248	55209506	0.142581352	PASS
PTPRJ	11	47980558	48170841	-0.210195174	PASS
PTPRK	6	127968779	128520674	-0.304168115	PASS
PTPRM	18	7566782	8406861	0.044197172	PASS
PTPRN	2	219289623	219309648	0.011001208	PASS
PTPRN2	7	157539056	158587788	-0.77630473	PASS
PTPRO	12	15322397	15597399	0.49032213	suppress_segment_too_large
PTPRQ	12	80402178	80680271	0.271127429	suppress_segment_too_large
PTPRR	12	70638073	70920843	-0.578548701	PASS
PTPRS	19	5158495	5340803	-0.071973357	PASS
PTPRT	20	42072752	43189970	-0.172056771	suppress_segment_too_large
PTPRU	1	29236516	29326813	0.048749694	PASS
PTPRZ1	7	121873089	122062036	-0.712149877	PASS
PTRH1	9	127690348	127724873	0.073960965	PASS
PTRH2	17	59674636	59707626	0.051798665	PASS
PTRHD1	2	24789734	24793382	0.034263343	PASS
PTS	11	112226365	112269955	-0.431650509	PASS
PTTG1	5	160421822	160428744	0.165341871	suppress_segment_too_large
PTTG1IP	21	44849585	44873903	0.209983559	PASS
PTTG2	4	37960435	37961125	-0.753159364	PASS
PTX3	3	157436789	157443628	0.02267528	PASS
PTX4	16	1485886	1488981	0.053595371	PASS

PUDP	23	7048920	7148190	0.158844052	PASS
PUF60	8	143816344	143829859	0.699132336	PASS
PUM1	1	30931506	31065991	0.048749694	PASS
PUM2	2	20248691	20352234	0.034263343	PASS
PUM3	9	2720469	2844241	0.073960965	PASS
PURA	5	140107777	140125619	-0.393084436	PASS
PURB	7	44876293	44885361	-0.72421718	PASS
PURG	8	30995802	31033715	-0.311940419	PASS
PUS1	12	131929200	131945896	0.028722739	PASS
PUS10	2	60940222	61018259	-0.46122572	PASS
PUS3	11	125893485	125903221	-0.431650509	PASS
PUS7	7	105439661	105522267	-0.712149877	PASS
PUS7L	12	43718993	43758817	-0.46813528	PASS
PUSL1	1	1308567	1311677	-0.358281697	PASS
PVALB	22	36800684	36819479	-0.740245994	PASS
PVALEF	17	81165507	81183164	0.051798665	PASS
PVR	19	44643798	44663583	0.002743503	PASS
PVRIG	7	100218241	100221490	-0.710463272	PASS
PWP1	12	107685732	107713167	0.028722739	PASS
PWP2	21	44107290	44131181	0.209983559	PASS
PWWP2A	5	160061801	160119423	0.165341871	suppress_segment_too_large
PWWP2B	10	132397168	132417863	0.073090211	PASS
PXDC1	6	3722614	3752026	0.069043418	PASS
PXDN	2	1631887	1744852	0.034263343	PASS
PXDNL	8	51319578	51809445	0.182873287	suppress_segment_too_large
PXK	3	58332880	58426126	-0.727808231	PASS
PXMP2	12	132687606	132704991	0.232349073	PASS
PXMP4	20	33702754	33720319	-0.172056771	suppress_segment_too_large
PXN	12	120210439	120265771	0.028722739	PASS
PXT1	6	36390551	36442889	0.028532667	PASS
PXYLP1	3	141228726	141367753	-0.889410434	PASS
PYCARD	16	31201485	31203450	0.053595371	PASS
PYCR1	17	81932384	81942412	0.051798665	PASS
PYCR2	1	225919877	225924340	-0.204996646	suppress_segment_too_large
PYCR3	8	143603913	143609773	0.699132336	PASS
PYDC1	16	31215962	31217359	0.053595371	PASS
PYDC2	3	191461163	191461456	0.02267528	PASS
PYGB	20	25248069	25298014	-0.172056771	suppress_segment_too_large
PYGL	14	50857891	50944736	0.053252507	PASS
PYGM	11	64746389	64760297	0.064535884	PASS
PYGO1	15	55538890	55588947	-0.759380635	PASS
PYGO2	1	154957026	154963853	0.088103245	PASS
PYHIN1	1	158930796	158977054	0.088103245	PASS
PYM1	12	55901413	55932618	-0.743220499	PASS
PYROXD1	12	21437615	21471252	0.49032213	suppress_segment_too_large
PYROXD2	10	98383565	98415184	-0.414937136	PASS
PYURF	4	88520985	88523813	-0.677982248	PASS
PYY	17	43952738	44004469	0.051798665	PASS
PZP	12	9148840	9208370	0.505438545	PASS
QARS	3	49095932	49105135	-0.727808231	PASS
QDPR	4	17460261	17512234	-0.358623662	PASS
QKI	6	163414000	163578596	0.033894706	PASS
QPCT	2	37342827	37373322	0.034263343	PASS
QPCTL	19	45692483	45703989	0.002743503	PASS

QPRT	16	29679008	29698699	0.053595371	PASS
QRFP	9	130892702	130896812	0.073960965	PASS
QRFPR	4	121329312	121381059	0.142431244	suppress_segment_too_large
QRICH1	3	49029707	49094363	-0.727808231	PASS
QRICH2	17	76274049	76307998	0.051798665	PASS
QRSL1	6	106629578	106668417	-0.355603029	PASS
QSER1	11	32892820	32993316	-0.359426047	PASS
QSOX1	1	180154834	180204030	0.088103245	PASS
QSOX2	9	136206333	136245841	0.073960965	PASS
QTRT1	19	10701430	10713437	-0.107594294	PASS
QTRT2	3	114005833	114088422	0.06434429	PASS
R3HCC1	8	23270120	23296279	-0.311940419	PASS
R3HCC1L	10	98134624	98244897	-0.414937136	PASS
R3HDM1	2	135531455	135725270	-0.359440172	PASS
R3HDM2	12	57253762	57431005	-0.743220499	PASS
R3HDM4	19	896503	913245	-0.071973357	PASS
R3HDML	20	44336986	44351235	-0.172056771	suppress_segment_too_large
RAB10	2	26034107	26137454	0.034263343	PASS
RAB11A	15	65726054	65891991	-0.759380635	PASS
RAB11B	19	8389981	8404434	-0.071973357	PASS
RAB11FIP	8	37858618	37899467	0.182873287	suppress_segment_too_large
RAB11FIP	10	118004916	118046603	0.073090211	PASS
RAB11FIP	16	425619	523011	0.053595371	PASS
RAB11FIP	17	31391624	31538217	0.041294512	PASS
RAB11FIP	2	73073382	73156721	-0.46122572	PASS
RAB12	18	8609437	8639382	0.044197172	PASS
RAB13	1	153981617	153986358	0.088103245	PASS
RAB14	9	121178137	121223014	0.073960965	PASS
RAB15	14	64945814	64973226	0.053252507	PASS
RAB17	2	237574322	237601614	0.011001208	PASS
RAB18	10	27504174	27542237	0.075711544	PASS
RAB19	7	140404043	140426250	-0.712149877	PASS
RAB1A	2	65070696	65130331	-0.46122572	PASS
RAB1B	11	66268533	66277492	0.064535884	PASS
RAB20	13	110523066	110561733	-0.426822582	PASS
RAB21	12	71754874	71800285	-0.578548701	PASS
RAB22A	20	58309696	58367507	-0.172056771	suppress_segment_too_large
RAB23	6	57186992	57222314	0.239805577	suppress_segment_too_large
RAB24	5	177301198	177303744	0.165341871	suppress_segment_too_large
RAB25	1	156061160	156070514	0.088103245	PASS
RAB26	16	2140803	2154165	0.053595371	PASS
RAB27A	15	55202966	55319113	-0.759380635	PASS
RAB27B	18	54717860	54895516	-0.330515409	PASS
RAB28	4	13361354	13484365	-0.358623662	PASS
RAB29	1	205767986	205775460	-0.204996646	suppress_segment_too_large
RAB2A	8	60516857	60623627	0.182873287	suppress_segment_too_large
RAB2B	14	21459020	21476973	0.053252507	PASS
RAB30	11	82973133	83071923	0.064535884	PASS
RAB31	18	9708165	9862551	0.044197172	PASS
RAB32	6	146543693	146554965	0.033894706	PASS
RAB33A	23	130171649	130184870	0.158844052	PASS
RAB33B	4	139453232	139476609	0.142431244	suppress_segment_too_large
RAB34	17	28714281	28718429	0.041294512	PASS
RAB35	12	120095095	120117502	0.028722739	PASS

RAB36	22	23145326	23164350	-0.740245994	PASS
RAB37	17	74670578	74747335	0.051798665	PASS
RAB38	11	88113242	88175467	0.064535884	PASS
RAB39A	11	107928503	107963482	-0.431650509	PASS
RAB39B	23	155258241	155264589	0.158844052	PASS
RAB3A	19	18196784	18204074	-0.069222905	PASS
RAB3B	1	51907956	51990764	-0.736943052	PASS
RAB3C	5	58582221	58859394	-0.284712224	PASS
RAB3D	19	11322046	11346270	-0.107594294	PASS
RAB3GAP	2	135052265	135176394	-0.359440172	PASS
RAB3GAP	1	220148293	220272454	-0.204996646	suppress_segment_too_large
RAB3IL1	11	61897301	61920269	0.064535884	PASS
RAB3IP	12	69738681	69823204	-0.578548701	PASS
RAB40A	23	103499130	103519489	0.158844052	PASS
RAB40AL	23	102937272	102938300	0.158844052	PASS
RAB40B	17	82654973	82698728	0.051798665	PASS
RAB40C	16	589357	629272	0.053595371	PASS
RAB41	23	70282093	70285002	0.158844052	PASS
RAB42	1	28592200	28595443	0.048749694	PASS
RAB43	3	129087569	129122801	0.06434429	PASS
RAB44	6	36697810	36733183	0.028532667	PASS
RAB4A	1	229271062	229305894	-0.204996646	suppress_segment_too_large
RAB4B	19	40778216	40796938	0.048917043	PASS
RAB4B-E(	19	40778242	40808418	0.048917043	PASS
RAB5A	3	19947079	19985175	0.06149513	PASS
RAB5B	12	55973913	55996683	-0.743220499	PASS
RAB5C	17	42124976	42155044	0.041294512	PASS
RAB5IF	20	36605734	36612557	-0.172056771	suppress_segment_too_large
RAB6A	11	73675638	73761137	0.064535884	PASS
RAB6B	3	133824239	133895836	0.06434429	PASS
RAB6C	2	129979664	129982738	-0.359440172	PASS
RAB6D	2	131361111	131364142	-0.359440172	PASS
RAB7A	3	128726122	128814796	0.06434429	PASS
RAB7B	1	205976740	206003461	-0.204996646	suppress_segment_too_large
RAB8A	19	16111629	16134234	-0.069222905	PASS
RAB8B	15	63189469	63267782	-0.759380635	PASS
RAB9A	23	13689125	13710506	0.158844052	PASS
RAB9B	23	103822322	103832228	0.158844052	PASS
RABAC1	19	41956681	41959390	0.048917043	PASS
RABEP1	17	5282265	5385812	0.06854245	PASS
RABEP2	16	28904421	28936526	0.053595371	PASS
RABEPK	9	125200542	125234158	0.073960965	PASS
RABGAP1	9	122940833	123104866	0.073960965	PASS
RABGAP1	1	174159410	174995308	0.088103245	PASS
RABGEF1	7	66682164	66811464	-0.701511252	PASS
RABGGTA	14	24265538	24271739	0.053252507	PASS
RABGGTB	1	75786197	75795079	0.052232535	PASS
RABIF	1	202878957	202889135	-0.204996646	suppress_segment_too_large
RABL2A	2	113627229	113643396	0.040971718	PASS
RABL2B	22	50767501	50783663	-0.953096644	PASS
RABL3	3	120686681	120742993	0.06434429	PASS
RABL6	9	136807943	136841187	0.073960965	PASS
RAC1	7	6374523	6403977	-0.72421718	PASS
RAC2	22	37225261	37244448	-0.740245994	PASS

RAC3	17	82031624	82034204	0.051798665	PASS
RACGAP1	12	49976923	50033136	-0.743220499	PASS
RACK1	5	181236909	181248096	0.165341871	suppress_segment_too_large
RAD1	5	34905264	34918989	0.073527871	PASS
RAD17	5	69369293	69414801	-0.393084436	PASS
RAD18	3	8775402	8963773	0.06149513	PASS
RAD21	8	116845935	116874866	0.493344802	suppress_segment_too_large
RAD21L1	20	1226056	1296421	-0.172056771	suppress_segment_too_large
RAD23A	19	12945855	12953642	-0.069222905	PASS
RAD23B	9	107283137	107332194	0.073960965	PASS
RAD50	5	132556019	132646344	-0.393084436	PASS
RAD51	15	40694774	40732339	-0.423772929	PASS
RAD51AP	12	4538798	4560048	-0.015029783	PASS
RAD51AP	2	17510584	17518439	0.034263343	PASS
RAD51B	14	67819779	68730218	0.053252507	PASS
RAD51C	17	58692573	58735611	0.051798665	PASS
RAD51D	17	35092208	35121522	0.041294512	PASS
RAD51L3-	17	35011349	35121493	0.041294512	PASS
RAD52	12	912077	990053	-0.015029783	PASS
RAD54B	8	94371960	94475109	0.355469066	suppress_segment_too_large
RAD54L	1	46247688	46278473	-0.736943052	PASS
RAD54L2	3	51541144	51668667	-0.727808231	PASS
RAD9A	11	67317871	67398410	0.064535884	PASS
RAD9B	12	110501655	110532086	0.028722739	PASS
RADIL	7	4797055	4883719	-0.72421718	PASS
RAE1	20	57351010	57379211	-0.172056771	suppress_segment_too_large
RAET1E	6	149883375	149898102	0.033894706	PASS
RAET1G	6	149916878	149923121	0.033894706	PASS
RAET1L	6	150018334	150025532	0.033894706	PASS
RAF1	3	12583601	12664226	0.06149513	PASS
RAG1	11	36510709	36593156	-0.359426047	PASS
RAG2	11	36575574	36598279	-0.359426047	PASS
RAI1	17	17681473	17811453	0.06854245	PASS
RAI14	5	34656237	34832627	0.073527871	PASS
RAI2	23	17800049	17861337	0.158844052	PASS
RALA	7	39623483	39708124	-0.72421718	PASS
RALB	2	120240064	120294713	-0.359440172	PASS
RALBP1	18	9475009	9538116	0.044197172	PASS
RALGAPA	14	35538352	35809304	0.053252507	PASS
RALGAPA	20	20389552	20712488	-0.172056771	suppress_segment_too_large
RALGAPB	20	38472816	38578861	-0.172056771	suppress_segment_too_large
RALGDS	9	133097720	133149334	0.073960965	PASS
RALGPS1	9	126914774	127223166	0.073960965	PASS
RALGPS2	1	178725147	178921841	0.088103245	PASS
RALY	20	33993646	34108308	-0.172056771	suppress_segment_too_large
RALYL	8	84182787	84921844	0.617295349	suppress_segment_too_large
RAMAC	15	82986207	82991057	-0.759380635	PASS
RAMACL	6	166585604	166587594	0.033894706	PASS
RAMP1	2	237858893	237912114	0.011001208	PASS
RAMP2	17	42758447	42763041	0.041294512	PASS
RAMP3	7	45157791	45186302	-0.72421718	PASS
RAN	12	130871879	130877678	0.028722739	PASS
RANBP1	22	20115938	20127357	-0.740245994	PASS
RANBP10	16	67723066	67806652	-0.423061015	PASS

RANBP17	5	170861870	171300015	0.165341871	suppress_segment_too_large
RANBP2	2	108719481	108785811	0.040971718	PASS
RANBP3	19	5916139	5978142	-0.071973357	PASS
RANBP3L	5	36248434	36302114	0.073527871	PASS
RANBP6	9	6011043	6015625	0.073960965	PASS
RANBP9	6	13621498	13711564	0.069043418	PASS
RANGAP1	22	41245611	41286251	-0.740245994	PASS
RANGRF	17	8288497	8290092	0.06854245	PASS
RAP1A	1	111542218	111716691	0.079255572	PASS
RAP1B	12	68610839	68671901	-0.743220499	PASS
RAP1GAP	1	21596215	21669363	0.048749694	PASS
RAP1GAP	17	2755705	3037739	0.06854245	PASS
RAP1GDS	4	98261384	98443861	-0.677982248	PASS
RAP2A	13	97434222	97469128	-0.384313056	PASS
RAP2B	3	153162270	153170620	0.02267528	PASS
RAP2C	23	132203024	132219480	0.158844052	PASS
RAPGEF1	9	131576770	131740074	0.073960965	PASS
RAPGEF2	4	159103013	159360174	0.142431244	suppress_segment_too_large
RAPGEF3	12	47734367	47771040	-0.743220499	PASS
RAPGEF4	2	172735274	173052893	0.033541467	PASS
RAPGEF5	7	22118238	22357144	-0.72421718	PASS
RAPGEF6	5	131423921	131635236	-0.393084436	PASS
RAPGEFL	17	40177010	40195656	0.041294512	PASS
RAPH1	2	203394345	203535410	0.011001208	PASS
RAPSN	11	47437757	47449178	0.059795455	PASS
RARA	17	40309192	40357643	0.041294512	PASS
RARB	3	25174332	25597932	0.06149513	PASS
RARG	12	53210567	53232980	-0.743220499	PASS
RARRES1	3	158696892	158732696	0.02267528	PASS
RARRES2	7	150338317	150341674	-0.712149877	PASS
RARRES3	11	63536809	63546462	0.064535884	PASS
RARS	5	168486445	168519299	0.165341871	suppress_segment_too_large
RARS2	6	87514378	87590003	-0.355603029	PASS
RASA1	5	87267888	87391931	-0.393084436	PASS
RASA2	3	141487047	141615342	-0.889410434	PASS
RASA3	13	113977783	114132611	-0.426822582	PASS
RASA4	7	102573807	102616757	-0.712149877	PASS
RASA4B	7	102482445	102517781	-0.712149877	PASS
RASAL1	12	113098819	113136239	0.028722739	PASS
RASAL2	1	178094141	178484147	0.088103245	PASS
RASAL3	19	15451624	15464571	-0.069222905	PASS
RASD1	17	17494437	17496395	0.06854245	PASS
RASD2	22	35540868	35554001	-0.740245994	PASS
RASEF	9	82979585	83063177	0.073960965	PASS
RASGEF1	10	43194535	43266919	-0.389033546	PASS
RASGEF1	4	81426393	82044244	-0.677982248	PASS
RASGEF1	5	180100791	180209153	0.165341871	suppress_segment_too_large
RASGRF1	15	78959947	79090773	-0.759380635	PASS
RASGRF2	5	80960672	81230156	-0.393084436	PASS
RASGRP1	15	38488103	38565575	-0.423772929	PASS
RASGRP2	11	64726911	64745456	0.064535884	PASS
RASGRP3	2	33436324	33564750	0.034263343	PASS
RASGRP4	19	38409051	38426305	0.048917043	PASS
RASIP1	19	48720587	48740721	0.002743503	PASS

RASL10A	22	29312933	29319679	-0.740245994	PASS
RASL10B	17	35731649	35743521	0.041294512	PASS
RASL11A	13	27270327	27273690	-0.398748891	PASS
RASL11B	4	52862290	52866835	0.115781418	suppress_segment_too_large
RASL12	15	65053337	65076690	-0.759380635	PASS
RASSF1	3	50329782	50340980	-0.727808231	PASS
RASSF10	11	13009577	13012106	-0.39835217	PASS
RASSF2	20	4780023	4823645	-0.172056771	suppress_segment_too_large
RASSF3	12	64507001	64697567	-0.743220499	PASS
RASSF4	10	44959407	44995891	-0.389033546	PASS
RASSF5	1	206507530	206589448	-0.204996646	suppress_segment_too_large
RASSF6	4	73571550	73620631	0.115781418	suppress_segment_too_large
RASSF7	11	560404	564021	-0.39835217	PASS
RASSF8	12	25959029	26079892	0.49032213	suppress_segment_too_large
RASSF9	12	85800697	85836570	0.271127429	suppress_segment_too_large
RAVER1	19	10316212	10333640	-0.107594294	PASS
RAVER2	1	64745095	64833232	0.052232535	PASS
RAX	18	59267035	59274086	-0.330515409	PASS
RAX2	19	3769089	3772221	-0.071973357	PASS
RB1	13	48303726	48599436	-3.165473388	PASS
RB1CC1	8	52622456	52745843	0.182873287	suppress_segment_too_large
RBAK	7	5045821	5069488	-0.72421718	PASS
RBAK-RB	7	4983718	5073221	-0.72421718	PASS
RBBP4	1	32651142	32686211	0.048749694	PASS
RBBP5	1	205086142	205122015	-0.204996646	suppress_segment_too_large
RBBP6	16	24537693	24572863	0.053595371	PASS
RBBP7	23	16839283	16870414	0.158844052	PASS
RBBP8	18	22798261	23026488	-0.330515409	PASS
RBBP8NL	20	62410237	62427533	-0.172056771	suppress_segment_too_large
RBBP9	20	18486540	18497243	-0.172056771	suppress_segment_too_large
RBCK1	20	407498	430966	-0.172056771	suppress_segment_too_large
RBFA	18	80034358	80046397	-0.330515409	PASS
RBFOX1	16	5239802	7713338	0.053595371	PASS
RBFOX2	22	35738736	36028425	-0.740245994	PASS
RBFOX3	17	79089345	79516148	0.051798665	PASS
RBKS	2	27781364	27891098	0.034263343	PASS
RBL1	20	36996349	37095995	-0.172056771	suppress_segment_too_large
RBL2	16	53433977	53491649	-0.423061015	PASS
RBM10	23	47144869	47186813	0.158844052	PASS
RBM11	21	14216130	14228372	0.758930684	suppress_segment_too_large
RBM12	20	35648925	35664956	-0.172056771	suppress_segment_too_large
RBM12B	8	93729356	93741017	0.355469066	suppress_segment_too_large
RBM14	11	66616582	66627347	0.064535884	PASS
RBM14-RI	11	66616626	66646469	0.064535884	PASS
RBM15	1	110338506	110346681	0.079255572	PASS
RBM15B	3	51391268	51397908	-0.727808231	PASS
RBM17	10	6088987	6117457	0.075711544	PASS
RBM18	9	122237624	122264839	0.073960965	PASS
RBM19	12	113816738	113966371	0.028722739	PASS
RBM20	10	110644397	110839469	0.073090211	PASS
RBM22	5	150690794	150701107	-0.393084436	PASS
RBM23	14	22893206	22919184	0.053252507	PASS
RBM24	6	17281346	17293875	0.069043418	PASS
RBM25	14	73058436	73123898	0.053252507	PASS

RBM26	13	79311824	79406477	-0.384313056	PASS
RBM27	5	146203600	146289132	-0.393084436	PASS
RBM28	7	128297685	128343908	-0.712149877	PASS
RBM3	23	48574449	48579066	0.158844052	PASS
RBM33	7	155644451	155781485	-0.77630473	PASS
RBM34	1	235131183	235161457	-0.204996646	suppress_segment_too_large
RBM38	20	57391407	57409333	-0.172056771	suppress_segment_too_large
RBM39	20	35701347	35742312	-0.172056771	suppress_segment_too_large
RBM4	11	66638617	66668374	0.064535884	PASS
RBM41	23	107064420	107118823	0.158844052	PASS
RBM42	19	35629030	35637686	0.044838622	PASS
RBM43	2	151247940	151261879	-0.30549516	PASS
RBM44	2	237798389	237842808	0.011001208	PASS
RBM45	2	178112424	178139011	0.033541467	PASS
RBM46	4	154781213	154828813	0.142431244	suppress_segment_too_large
RBM47	4	40423267	40630875	-0.753159364	PASS
RBM48	7	92528773	92538005	-0.710463272	PASS
RBM4B	11	66664998	66677921	0.064535884	PASS
RBM5	3	50088908	50119021	-0.727808231	PASS
RBM6	3	49940007	50100045	-0.727808231	PASS
RBM7	11	114400030	114414203	-0.431650509	PASS
RBM8A	1	145917714	145927678	0.079255572	PASS
RBMS1	2	160272151	160493794	0.054749241	PASS
RBMS2	12	56521929	56596196	-0.743220499	PASS
RBMS3	3	28574791	30010391	0.06149513	PASS
RBMX	23	136848004	136880764	0.158844052	PASS
RBMX2	23	130401969	130413343	0.158844052	PASS
RBMXL1	1	88979456	88992960	0.079255572	PASS
RBMXL2	11	7089027	7090900	-0.39835217	PASS
RBMXL3	23	115189427	115192868	0.158844052	PASS
RBP1	3	139517434	139539829	-0.889410434	PASS
RBP2	3	139452884	139480747	-0.889410434	PASS
RBP3	10	47348371	47357875	-0.389033546	PASS
RBP4	10	93591687	93601744	-0.414937136	PASS
RBP5	12	7123684	7128942	-0.015029783	PASS
RBP7	1	9997206	10016020	0.364796772	PASS
RBPJ	4	26163455	26435131	-2.804710927	PASS
RBPJL	20	45306851	45317824	-0.172056771	suppress_segment_too_large
RBPMS	8	30384479	30572261	-0.311940419	PASS
RBPMS2	15	64739892	64775587	-0.759380635	PASS
RBSN	3	15070073	15099163	0.06149513	PASS
RBX1	22	40951347	40973309	-0.740245994	PASS
RC3H1	1	173931214	174022297	0.088103245	PASS
RC3H2	9	122844556	122905341	0.073960965	PASS
RCAN1	21	34513142	34615142	0.209983559	PASS
RCAN2	6	46220736	46491972	0.239805577	suppress_segment_too_large
RCAN3	1	24502351	24541040	0.048749694	PASS
RCBTB1	13	49531946	49585583	-0.384313056	PASS
RCBTB2	13	48488959	48533256	-0.384313056	PASS
RCC1	1	28505943	28539300	0.048749694	PASS
RCC1L	7	75027122	75074228	-0.701511252	PASS
RCC2	1	17406760	17439724	0.048749694	PASS
RCCD1	15	90954870	90963125	-0.759380635	PASS
RCE1	11	66842835	66846546	0.064535884	PASS

RCHY1	4	75479037	75514764	0.115781418	suppress_segment_too_large
RCL1	9	4792869	4885917	0.073960965	PASS
RCN1	11	32090904	32105755	-0.359426047	PASS
RCN2	15	76931619	76954392	-0.759380635	PASS
RCN3	19	49527618	49546962	0.002743503	PASS
RCOR1	14	102592661	102730576	-0.155273506	suppress_segment_too_large
RCOR2	11	63911221	63916844	0.064535884	PASS
RCOR3	1	211258377	211316385	-0.204996646	suppress_segment_too_large
RCSD1	1	167630093	167706249	0.088103245	PASS
RCVRN	17	9896320	9905621	0.06854245	PASS
RD3	1	211476522	211492917	-0.204996646	suppress_segment_too_large
RD3L	14	103940426	103942561	-0.155273506	suppress_segment_too_large
RDH10	8	73294612	73325281	0.182873287	suppress_segment_too_large
RDH11	14	67676801	67695814	0.053252507	PASS
RDH12	14	67701886	67734452	0.053252507	PASS
RDH13	19	55039108	55071291	0.142581352	PASS
RDH14	2	18554723	18560680	0.034263343	PASS
RDH16	12	56951431	56959374	-0.743220499	PASS
RDH5	12	55720367	55724705	-0.743220499	PASS
RDH8	19	10013249	10022279	-0.107594294	PASS
RDM1	17	35918066	35930773	0.041294512	PASS
RDX	11	109864295	110296722	-0.431650509	PASS
REC114	15	73443158	73560014	-0.759380635	PASS
REC8	14	24171853	24180257	0.053252507	PASS
RECK	9	36036433	36124451	0.073960965	PASS
RECQL	12	21468911	21501669	0.49032213	suppress_segment_too_large
RECQL4	8	144511288	144517845	0.699132336	PASS
RECQL5	17	75626845	75667189	0.051798665	PASS
REEP1	2	86213993	86338083	0.064122364	PASS
REEP2	5	138439017	138446969	-0.393084436	PASS
REEP3	10	63521363	63625123	0.032351597	PASS
REEP4	8	22138020	22141951	-0.311940419	PASS
REEP5	5	112876379	112922539	-0.393084436	PASS
REEP6	19	1490747	1497927	-0.071973357	PASS
REG1A	2	79120362	79123419	-0.46122572	PASS
REG1B	2	79085030	79088019	-0.46122572	PASS
REG3A	2	79157003	79159753	-0.46122572	PASS
REG3G	2	79025686	79028505	-0.46122572	PASS
REG4	1	119794018	119811660	0.079255572	PASS
REL	2	60881521	60931610	-0.46122572	PASS
RELA	11	65653596	65663094	0.064535884	PASS
RELB	19	45001430	45038198	0.002743503	PASS
RELCH	18	62187255	62310217	-0.330515409	PASS
RELL1	4	37590800	37686376	-0.753159364	PASS
RELL2	5	141636950	141641077	-0.393084436	PASS
RELN	7	103471784	103989516	-0.712149877	PASS
RELT	11	73376264	73397474	0.064535884	PASS
REM1	20	31475293	31484905	-0.172056771	suppress_segment_too_large
REM2	14	22883165	22887686	0.053252507	PASS
REN	1	204154819	204190324	-0.204996646	suppress_segment_too_large
RENBP	23	153935263	153944691	0.158844052	PASS
REP15	12	27696519	27697596	0.49032213	suppress_segment_too_large
REPIN1	7	150368189	150374044	-0.712149877	PASS
REPS1	6	138903493	138988261	0.033894706	PASS

REPS2	23	16946691	17153280	0.158844052	PASS
RER1	1	2391775	2405444	-0.358281697	PASS
RERE	1	8352397	8817643	0.364796772	PASS
RERG	12	15107783	15348675	0.49032213	suppress_segment_too_large
RERGL	12	18080869	18320107	0.49032213	suppress_segment_too_large
RESP18	2	219327409	219333177	0.011001208	PASS
REST	4	56907876	56966678	0.115781418	suppress_segment_too_large
RET	10	43077027	43130351	-0.389033546	PASS
RETN	19	7669044	7670454	-0.071973357	PASS
RETNLB	3	108743424	108757384	0.22470242	PASS
RETREG1	5	16473038	16617058	0.073527871	PASS
RETREG2	2	219176225	219185479	0.011001208	PASS
RETREG3	17	42579513	42610623	0.041294512	PASS
RETSAT	2	85342088	85354620	0.064122364	PASS
REV1	2	99400475	99490035	0.064122364	PASS
REV3L	6	111299028	111483715	-0.355603029	PASS
REX1BD	19	18588685	18592336	-0.069222905	PASS
REXO1	19	1815246	1848463	-0.071973357	PASS
REXO2	11	114439386	114450279	-0.431650509	PASS
REXO4	9	133406059	133418096	0.073960965	PASS
REXO5	16	20806429	20849668	0.053595371	PASS
RFC1	4	39287456	39366375	-0.753159364	PASS
RFC2	7	74231499	74254458	-0.701511252	PASS
RFC3	13	33818049	33966558	-0.398748891	PASS
RFC4	3	186789880	186807058	0.02267528	PASS
RFC5	12	118013588	118033130	0.028722739	PASS
RFESD	5	95646754	95684773	-0.393084436	PASS
RFFL	17	35005990	35089319	0.041294512	PASS
RFK	9	76385517	76394517	0.073960965	PASS
RFLNA	12	123973241	124316024	0.028722739	PASS
RFLNB	17	439978	445939	0.06854245	PASS
RFNG	17	82047902	82051831	0.051798665	PASS
RFPL1	22	29438583	29442455	-0.740245994	PASS
RFPL2	22	32190435	32203477	-0.740245994	PASS
RFPL3	22	32354885	32361161	-0.740245994	PASS
RFPL4A	19	55759014	55763175	0.142581352	PASS
RFPL4AL1	19	55769141	55773179	0.142581352	PASS
RFPL4B	6	112347330	112351296	-0.355603029	PASS
RFT1	3	53088483	53130462	-0.727808231	PASS
RFTN1	3	16313574	16514026	0.06149513	PASS
RFTN2	2	197568224	197676045	0.011001208	PASS
RFWD3	16	74621394	74666881	-0.423061015	PASS
RFX1	19	13961538	14007039	-0.069222905	PASS
RFX2	19	5993164	6199572	-0.071973357	PASS
RFX3	9	3218297	3526004	0.073960965	PASS
RFX4	12	106582907	106762803	0.028722739	PASS
RFX5	1	151340640	151347357	0.079255572	PASS
RFX6	6	116877212	116932163	-0.355603029	PASS
RFX7	15	56087280	56243266	-0.759380635	PASS
RFX8	2	101397361	101474703	0.064122364	PASS
RFXANK	19	19192229	19201869	-0.069222905	PASS
RFXAP	13	36819224	36829104	-0.398748891	PASS
RGCC	13	41457559	41470882	-0.398748891	PASS
RGL1	1	183636085	183928531	0.088103245	PASS

RGL2	6	33291654	33299324	0.028532667	PASS
RGL3	19	11384341	11419342	-0.107594294	PASS
RGL4	22	23688136	23699176	-0.740245994	PASS
RGMA	15	93035273	93089204	-0.759380635	PASS
RGMB	5	98768650	98798643	-0.393084436	PASS
RGN	23	47078355	47093314	0.158844052	PASS
RGP1	9	35749287	35758575	0.073960965	PASS
RGPD1	2	86907953	87013976	0.064122364	PASS
RGPD2	2	87755955	87825952	0.064122364	PASS
RGPD3	2	106391290	106468376	-0.439572519	PASS
RGPD4	2	107826937	107890841	-0.439572519	PASS
RGPD8	2	112370092	112434488	0.040971718	PASS
RGR	10	84245053	84259960	0.032351597	PASS
RGS1	1	192575727	192580031	0.088103245	PASS
RGS10	10	119499828	119542708	0.073090211	PASS
RGS11	16	268301	275980	0.053595371	PASS
RGS12	4	3293028	3439913	-0.358623662	PASS
RGS13	1	192636138	192660306	0.088103245	PASS
RGS14	5	177357837	177372601	0.165341871	suppress_segment_too_large
RGS16	1	182598623	182604408	0.088103245	PASS
RGS17	6	153004459	153131249	0.033894706	PASS
RGS18	1	192158457	192185815	0.088103245	PASS
RGS19	20	64073181	64079988	-0.172056771	suppress_segment_too_large
RGS2	1	192809039	192812283	0.088103245	PASS
RGS20	8	53851808	53959303	0.182873287	suppress_segment_too_large
RGS21	1	192316992	192367285	0.088103245	PASS
RGS22	8	99960936	100131268	0.355469066	suppress_segment_too_large
RGS3	9	113444731	113597743	0.073960965	PASS
RGS4	1	163068775	163076802	0.088103245	PASS
RGS5	1	163111121	163321791	0.088103245	PASS
RGS6	14	71932439	72566529	0.053252507	PASS
RGS7	1	240775515	241357230	-0.287484925	PASS
RGS7BP	5	64506257	64612312	-0.393084436	PASS
RGS8	1	182641816	182684576	0.088103245	PASS
RGS9	17	65100812	65227703	0.051798665	PASS
RGS9BP	19	32675407	32678300	0.044838622	PASS
RGSL1	1	182409192	182560599	0.088103245	PASS
RHAG	6	49605158	49636884	0.239805577	suppress_segment_too_large
RHBDD1	2	226835581	226999215	0.011001208	PASS
RHBDD2	7	75842602	75888926	-0.701511252	PASS
RHBDD3	22	29259852	29268209	-0.740245994	PASS
RHBDF1	16	58059	76355	0.053595371	PASS
RHBDF2	17	76470891	76501790	0.051798665	PASS
RHBDL1	16	675666	678268	0.053595371	PASS
RHBDL2	1	38885807	38941799	0.048749694	PASS
RHBDL3	17	32266176	32324661	0.041294512	PASS
RHBG	1	156369212	156385219	0.088103245	PASS
RHCE	1	25362249	25430192	0.048749694	PASS
RHCG	15	89471398	89496613	-0.759380635	PASS
RHD	1	25272393	25330445	0.048749694	PASS
RHEB	7	151466012	151520120	-0.712149877	PASS
RHEBL1	12	49064685	49070025	-0.743220499	PASS
RHEX	1	206052723	206102459	-0.204996646	suppress_segment_too_large
RHNO1	12	2876258	2889523	-0.015029783	PASS

RHO	3	129528640	129535169	0.06434429	PASS
RHOA	3	49359145	49412998	-0.727808231	PASS
RHOB	2	20447074	20449445	0.034263343	PASS
RHOBTB1	10	60869438	61001440	0.032351597	PASS
RHOBTB2	8	22987417	23020199	-0.311940419	PASS
RHOBTB3	5	95713522	95824383	-0.393084436	PASS
RHOC	1	112701106	112707434	0.079255572	PASS
RHOD	11	67056818	67072013	0.064535884	PASS
RHOF	12	121777754	121803403	0.028722739	PASS
RHOG	11	3826978	3840983	-0.39835217	PASS
RHOH	4	40191053	40246967	-0.753159364	PASS
RHOJ	14	63204114	63293219	0.053252507	PASS
RHOQ	2	46541806	46583121	0.034263343	PASS
RHOT1	17	32142454	32253374	0.041294512	PASS
RHOT2	16	668086	674174	0.053595371	PASS
RHOU	1	228735077	228746669	-0.204996646	suppress_segment_too_large
RHOV	15	40872214	40874289	-0.423772929	PASS
RHOXF1	23	120109053	120115937	0.158844052	PASS
RHOXF2	23	120158561	120165630	0.158844052	PASS
RHOXF2B	23	120070672	120077705	0.158844052	PASS
RHPN1	8	143368887	143384220	0.699132336	PASS
RHPN2	19	32978593	33064888	0.044838622	PASS
RIBC1	23	53422690	53431120	0.158844052	PASS
RIBC2	22	45413691	45432496	-0.953096644	PASS
RIC1	9	5629025	5776557	0.073960965	PASS
RIC3	11	8106093	8169055	-0.39835217	PASS
RIC8A	11	207511	215113	-0.39835217	PASS
RIC8B	12	106774595	106889316	0.028722739	PASS
RICTOR	5	38937919	39074408	0.073527871	PASS
RIDA	8	98102344	98117241	0.355469066	suppress_segment_too_large
RIF1	2	151409883	151508013	-0.30549516	PASS
RIIAD1	1	151710433	151729805	0.079255572	PASS
RILP	17	1646145	1650077	0.06854245	PASS
RILPL1	12	123470054	123533718	0.028722739	PASS
RILPL2	12	123410683	123436717	0.028722739	PASS
RIMBP2	12	130396137	130716281	0.028722739	PASS
RIMBP3	22	18605815	18611919	-0.740245994	PASS
RIMBP3B	22	21383374	21389478	-0.740245994	PASS
RIMKLA	1	42380795	42422578	-0.736943052	PASS
RIMKLB	12	8681600	8783095	0.505438545	PASS
RIMS1	6	71886703	72403143	-0.250122709	PASS
RIMS2	8	103500748	104256094	0.70944438	suppress_segment_too_large
RIMS3	1	40620679	40665657	0.048749694	PASS
RIMS4	20	44751808	44810338	-0.172056771	suppress_segment_too_large
RIN1	11	66330242	66336840	0.064535884	PASS
RIN2	20	19757606	20002459	-0.172056771	suppress_segment_too_large
RIN3	14	92513774	92688994	-0.155273506	suppress_segment_too_large
RING1	6	33208495	33212722	0.028532667	PASS
RINL	19	38867834	38878279	0.048917043	PASS
RINT1	7	105532085	105567677	-0.712149877	PASS
RIOK1	6	7389496	7418037	0.069043418	PASS
RIOK2	5	97160867	97183260	-0.393084436	PASS
RIOK3	18	23452823	23486603	-0.330515409	PASS
RIOX1	14	73490964	73493392	0.053252507	PASS

RIOX2	3	97941818	97972457	0.22470242	PASS
RIPK1	6	3063991	3115187	0.069043418	PASS
RIPK2	8	89757747	89791063	0.617295349	suppress_segment_too_large
RIPK3	14	24336021	24340045	0.053252507	PASS
RIPK4	21	41739369	41767106	0.209983559	PASS
RIPOR1	16	67518418	67546788	-0.423061015	PASS
RIPOR2	6	24804281	25042170	0.069043418	PASS
RIPOR3	20	50586108	50691528	-0.172056771	suppress_segment_too_large
RIPPLY1	23	106900063	106903335	0.158844052	PASS
RIPPLY2	6	83853266	83857515	-0.355603029	PASS
RIPPLY3	21	37006150	37019659	0.209983559	PASS
RIT1	1	155897808	155911404	0.088103245	PASS
RIT2	18	42743227	43115691	-0.330515409	PASS
RITA1	12	113185526	113192368	0.028722739	PASS
RLBP1	15	89209869	89221751	-0.759380635	PASS
RLF	1	40161373	40240921	0.048749694	PASS
RLIM	23	74585217	74614617	0.158844052	PASS
RLN1	9	5334969	5339873	0.073960965	PASS
RLN2	9	5299868	5304969	0.073960965	PASS
RLN3	19	14028148	14031042	-0.069222905	PASS
RMC1	18	23503470	23531807	-0.330515409	PASS
RMDN1	8	86468257	86514357	0.617295349	suppress_segment_too_large
RMDN2	2	37923187	38067142	0.034263343	PASS
RMDN3	15	40735884	40755851	-0.423772929	PASS
RMI1	9	83980711	84004074	0.073960965	PASS
RMI2	16	11249619	11381662	0.053595371	PASS
RMND1	6	151404762	151452181	0.033894706	PASS
RMND5A	2	86720173	86778041	0.064122364	PASS
RMND5B	5	178130996	178150565	0.165341871	suppress_segment_too_large
RNASE1	14	20801228	20803278	0.053252507	PASS
RNASE10	14	20505537	20511169	0.053252507	PASS
RNASE11	14	20583559	20609884	0.053252507	PASS
RNASE12	14	20590193	20590823	0.053252507	PASS
RNASE13	14	21032820	21034785	0.053252507	PASS
RNASE2	14	20955452	20956436	0.053252507	PASS
RNASE3	14	20891399	20892348	0.053252507	PASS
RNASE4	14	20684100	20701215	0.053252507	PASS
RNASE6	14	20781051	20782467	0.053252507	PASS
RNASE7	14	21042226	21044234	0.053252507	PASS
RNASE8	14	21057822	21058455	0.053252507	PASS
RNASE9	14	20556093	20560931	0.053252507	PASS
RNASEH1	2	3544793	3558616	0.034263343	PASS
RNASEH2	19	12806556	12815201	-0.069222905	PASS
RNASEH2	13	50909678	51024120	-0.384313056	PASS
RNASEH2	11	65714005	65720947	0.064535884	PASS
RNASEK	17	7012417	7014532	0.06854245	PASS
RNASEK-(	17	7012635	7017520	0.06854245	PASS
RNASEL	1	182573634	182589256	0.088103245	PASS
RNASET2	6	166929504	166957191	0.033894706	PASS
RND1	12	48857145	48865898	-0.743220499	PASS
RND2	17	43025241	43032036	0.041294512	PASS
RND3	2	150468195	150539011	-0.30549516	PASS
RNF10	12	120533480	120577594	0.028722739	PASS
RNF103	2	86603393	86623866	0.064122364	PASS

RNF103-C	2	86505668	86721122	0.064122364	PASS
RNF11	1	51236271	51273455	-0.736943052	PASS
RNF111	15	58865175	59097419	-0.759380635	PASS
RNF112	17	19411125	19417276	0.06854245	PASS
RNF113A	23	119870475	119871827	0.158844052	PASS
RNF113B	13	98175785	98177265	-0.384313056	PASS
RNF114	20	49936336	49953892	-0.172056771	suppress_segment_too_large
RNF115	1	145738868	145824077	0.079255572	PASS
RNF121	11	71928701	71997597	0.064535884	PASS
RNF122	8	33547755	33567125	-0.311940419	PASS
RNF123	3	49689499	49721529	-0.727808231	PASS
RNF125	18	32018372	32073213	-0.330515409	PASS
RNF126	19	647526	663277	-0.071973357	PASS
RNF128	23	106693794	106796993	0.158844052	PASS
RNF13	3	149812708	149962139	0.02267528	PASS
RNF130	5	179911651	180072118	0.165341871	suppress_segment_too_large
RNF133	7	122697712	122699156	-0.712149877	PASS
RNF135	17	30968785	30999911	0.041294512	PASS
RNF138	18	32091855	32131561	-0.330515409	PASS
RNF139	8	124474738	124487914	0.493344802	suppress_segment_too_large
RNF14	5	141958328	141990291	-0.393084436	PASS
RNF141	11	10511678	10541230	-0.39835217	PASS
RNF144A	2	6917392	7068286	0.034263343	PASS
RNF144B	6	18387350	18468874	0.069043418	PASS
RNF145	5	159157409	159210053	0.165341871	suppress_segment_too_large
RNF146	6	127266610	127288567	-0.304168115	PASS
RNF148	7	122701664	122702967	-0.712149877	PASS
RNF149	2	101271219	101308701	0.064122364	PASS
RNF150	4	140859807	141212877	0.142431244	suppress_segment_too_large
RNF151	16	1966823	1968975	0.053595371	PASS
RNF152	18	61808063	61894247	-0.330515409	PASS
RNF157	17	76142453	76240373	0.051798665	PASS
RNF165	18	46326809	46463140	-0.330515409	PASS
RNF166	16	88696495	88706421	-0.423061015	PASS
RNF167	17	4940008	4945222	0.06854245	PASS
RNF168	3	196468783	196503768	0.02267528	PASS
RNF169	11	74748868	74842413	0.064535884	PASS
RNF17	13	24764152	24879921	-0.398748891	PASS
RNF170	8	42849637	42897290	0.182873287	suppress_segment_too_large
RNF175	4	153710125	153760235	0.142431244	suppress_segment_too_large
RNF180	5	64165844	64372869	-0.393084436	PASS
RNF181	2	85595725	85597613	0.064122364	PASS
RNF182	6	13924446	13980302	0.069043418	PASS
RNF183	9	113297093	113303376	0.073960965	PASS
RNF185	22	31160183	31207019	-0.740245994	PASS
RNF186	1	19814029	19815278	0.048749694	PASS
RNF187	1	228487061	228495766	-0.204996646	suppress_segment_too_large
RNF19A	8	100257060	100336218	0.355469066	suppress_segment_too_large
RNF19B	1	32936445	32964685	0.048749694	PASS
RNF2	1	185045364	185102608	0.088103245	PASS
RNF20	9	101533851	101563344	0.073960965	PASS
RNF207	1	6205475	6221299	0.364796772	PASS
RNF208	9	137220247	137221581	0.073960965	PASS
RNF212	4	1056250	1113562	-0.358623662	PASS

RNF212B	14	23185316	23273477	0.053252507	PASS
RNF213	17	80260866	80398786	0.051798665	PASS
RNF214	11	117232625	117286445	-0.431650509	PASS
RNF215	22	30368811	30421771	-0.740245994	PASS
RNF216	7	5620047	5781739	-0.72421718	PASS
RNF217	6	124962545	125092633	-0.304168115	PASS
RNF219	13	78614291	78659179	-0.384313056	PASS
RNF220	1	44405194	44651724	-0.736943052	PASS
RNF222	17	8390704	8397826	0.06854245	PASS
RNF223	1	1070966	1074307	-0.358281697	PASS
RNF224	9	137227271	137229638	0.073960965	PASS
RNF225	19	58396090	58397079	0.142581352	PASS
RNF24	20	3927309	4015582	-0.172056771	suppress_segment_too_large
RNF25	2	218663864	218672411	0.011001208	PASS
RNF26	11	119334527	119337313	-0.431650509	PASS
RNF31	14	24146683	24160661	0.053252507	PASS
RNF32	7	156640281	156677130	-0.77630473	PASS
RNF34	12	121400041	121430623	0.028722739	PASS
RNF38	9	36336396	36487548	0.073960965	PASS
RNF39	6	30070266	30075887	0.069043418	PASS
RNF4	4	2462220	2625320	-0.358623662	PASS
RNF40	16	30761745	30776307	0.053595371	PASS
RNF41	12	56202175	56221933	-0.743220499	PASS
RNF43	17	58352500	58417595	0.051798665	PASS
RNF44	5	176526697	176538025	0.165341871	suppress_segment_too_large
RNF5	6	32178354	32180793	0.028532667	PASS
RNF6	13	26132115	26222493	-0.398748891	PASS
RNF7	3	141738204	141747560	-0.889410434	PASS
RNF8	6	37353972	37394738	0.028532667	PASS
RNFT1	17	59952240	59964761	0.051798665	PASS
RNFT2	12	116738178	116853631	0.028722739	PASS
RNGTT	6	88610272	88963721	-0.355603029	PASS
RNH1	11	494512	507300	-0.39835217	PASS
RNLS	10	88273864	88584530	-2.417109027	suppress_large_homdel
RNMT	18	13726660	13764558	0.044197172	PASS
RNPC3	1	103525691	103555239	0.079255572	PASS
RNPEP	1	201982372	202006147	-0.204996646	suppress_segment_too_large
RNPEPL1	2	240565804	240581372	0.011001208	PASS
RNPS1	16	2253116	2268412	0.053595371	PASS
ROBO1	3	78597240	79767815	-0.207544274	PASS
ROBO2	3	75906695	77649964	-0.207544274	PASS
ROBO3	11	124865386	124881470	-0.431650509	PASS
ROBO4	11	124883691	124898500	-0.431650509	PASS
ROCK1	18	20946906	21111851	0.044197172	PASS
ROCK2	2	11179761	11348330	0.034263343	PASS
ROGDI	16	4796968	4802950	0.053595371	PASS
ROM1	11	62611722	62615120	0.064535884	PASS
ROMO1	20	35699272	35700984	-0.172056771	suppress_segment_too_large
ROPN1	3	123968521	123992178	0.06434429	PASS
ROPN1B	3	125969144	125983454	0.06434429	PASS
ROPN1L	5	10441524	10472029	0.073527871	PASS
ROR1	1	63774022	64181498	0.052232535	PASS
ROR2	9	91563091	91950162	0.073960965	PASS
RORA	15	60488284	61229319	-0.759380635	PASS

RORB	9	74497365	74693177	0.073960965	PASS
RORC	1	151806071	151831872	0.079255572	PASS
ROS1	6	117288300	117425855	-0.355603029	PASS
RP1	8	54509422	54871720	0.182873287	suppress_segment_too_large
RP1L1	8	10606349	10712187	-0.311940419	PASS
RP2	23	46836940	46882358	0.158844052	PASS
RP9	7	33094797	33109401	-0.72421718	PASS
RPA1	17	1829702	1900082	0.06854245	PASS
RPA2	1	27891524	27914746	0.048749694	PASS
RPA3	7	7636518	7718607	-0.72421718	PASS
RPA4	23	96883908	96885467	0.158844052	PASS
RPAIN	17	5419641	5432876	0.06854245	PASS
RPAP1	15	41517176	41544269	-0.423772929	PASS
RPAP2	1	92298965	92402056	0.079255572	PASS
RPAP3	12	47661249	47706061	-0.46813528	PASS
RPE	2	210002565	210022259	0.011001208	PASS
RPE65	1	68428822	68449959	0.052232535	PASS
RPEL1	10	103245887	103248016	-0.414937136	PASS
RPF1	1	84479259	84497790	0.587598296	PASS
RPF2	6	110982015	111028263	-0.355603029	PASS
RPGR	23	38269163	38327564	0.158844052	PASS
RPGRIP1	14	21287939	21351301	0.053252507	PASS
RPGRIP1L	16	53598153	53703938	-0.423061015	PASS
RPH3A	12	112570380	112898881	0.028722739	PASS
RPH3AL	17	212389	386254	0.06854245	PASS
RPIA	2	88691644	88750935	0.064122364	PASS
RPL10	23	154389955	154409168	0.158844052	PASS
RPL10A	6	35468408	35470785	0.028532667	PASS
RPL10L	14	46651010	46651821	0.053252507	PASS
RPL11	1	23691742	23696835	0.048749694	PASS
RPL12	9	127447674	127451405	0.073960965	PASS
RPL13	16	89560657	89566828	-0.423061015	PASS
RPL13A	19	49487554	49492308	0.002743503	PASS
RPL14	3	40457292	40468587	-0.727808231	PASS
RPL15	3	23916545	23924374	0.06149513	PASS
RPL17	18	49488453	49492523	-0.330515409	PASS
RPL17-C1	18	49481681	49492479	-0.330515409	PASS
RPL18	19	48615328	48619536	0.002743503	PASS
RPL18A	19	17859876	17864153	-0.069222905	PASS
RPL19	17	39200283	39204732	0.041294512	PASS
RPL21	13	27251309	27256691	-0.398748891	PASS
RPL22	1	6185020	6209389	0.364796772	PASS
RPL22L1	3	170864875	170870483	0.02267528	PASS
RPL23	17	38847865	38853843	0.041294512	PASS
RPL23A	17	28719393	28724359	0.041294512	PASS
RPL24	3	101681091	101686782	0.22470242	PASS
RPL26	17	8377516	8383250	0.06854245	PASS
RPL26L1	5	172958729	172969771	0.165341871	suppress_segment_too_large
RPL27	17	42998273	43002959	0.041294512	PASS
RPL27A	11	8682411	8714759	-0.39835217	PASS
RPL28	19	55385345	55403250	0.142581352	PASS
RPL29	3	51993522	51995942	-0.727808231	PASS
RPL3	22	39312882	39320389	-0.740245994	PASS
RPL30	8	98024851	98046469	0.355469066	suppress_segment_too_large

RPL31	2	101001715	101024032	0.064122364	PASS
RPL32	3	12834485	12841588	0.06149513	PASS
RPL34	4	108620566	108630412	-0.677982248	PASS
RPL35	9	124857880	124861981	0.073960965	PASS
RPL35A	3	197949980	197956610	0.02267528	PASS
RPL36	19	5674947	5691876	-0.071973357	PASS
RPL36A	23	101390824	101396154	0.158844052	PASS
RPL36A-H	23	101391011	101412297	0.158844052	PASS
RPL36AL	14	49618519	49620685	0.053252507	PASS
RPL37	5	40825262	40835335	-0.284712224	PASS
RPL37A	2	216498189	216579180	0.011001208	PASS
RPL38	17	74203582	74210655	0.051798665	PASS
RPL39	23	119786504	119791643	0.158844052	PASS
RPL39L	3	187120948	187180908	0.02267528	PASS
RPL3L	16	1943974	1957606	0.053595371	PASS
RPL4	15	66498015	66524532	-0.759380635	PASS
RPL41	12	56116586	56117943	-0.743220499	PASS
RPL5	1	92831983	92841924	0.079255572	PASS
RPL6	12	112405190	112418838	0.028722739	PASS
RPL7	8	73290267	73295789	0.182873287	suppress_segment_too_large
RPL7A	9	133348214	133351426	0.073960965	PASS
RPL7L1	6	42879618	42889925	0.028532667	PASS
RPL8	8	144789765	144792587	0.699132336	PASS
RPL9	4	39452521	39458949	-0.753159364	PASS
RPLP0	12	120196686	120201235	0.028722739	PASS
RPLP1	15	69452784	69456194	-0.759380635	PASS
RPLP2	11	809647	812880	-0.39835217	PASS
RPN1	3	128619970	128681075	0.06434429	PASS
RPN2	20	37178410	37241623	-0.172056771	suppress_segment_too_large
RPP14	3	58306247	58324695	-0.727808231	PASS
RPP21	6	30345131	30346884	0.069043418	PASS
RPP25	15	74954416	74957464	-0.759380635	PASS
RPP25L	9	34610486	34612104	0.073960965	PASS
RPP30	10	90871716	90908553	-0.414937136	PASS
RPP38	10	15097180	15139818	0.075711544	PASS
RPP40	6	4994732	5004063	0.069043418	PASS
RPRD1A	18	35984387	36067576	-0.330515409	PASS
RPRD1B	20	38033546	38127780	-0.172056771	suppress_segment_too_large
RPRD2	1	150363091	150476566	0.079255572	PASS
RPRM	2	153477338	153478808	-0.30549516	PASS
RPRML	17	46978156	46979248	0.051798665	PASS
RPS10	6	34417454	34426125	0.028532667	PASS
RPS10-NU	6	34284887	34426071	0.028532667	PASS
RPS11	19	49496365	49499689	0.002743503	PASS
RPS12	6	132814441	132817564	-0.304168115	PASS
RPS13	11	17074389	17077787	-0.39835217	PASS
RPS14	5	150442635	150449756	-0.393084436	PASS
RPS15	19	1438358	1440494	-0.071973357	PASS
RPS15A	16	18781295	18790383	0.053595371	PASS
RPS16	19	39433207	39435948	0.048917043	PASS
RPS17	15	82536750	82540564	-0.759380635	PASS
RPS18	6	33272010	33276510	0.028532667	PASS
RPS19	19	41859918	41872926	0.048917043	PASS
RPS19BP1	22	39529093	39532855	-0.740245994	PASS

RPS2	16	1962052	1964860	0.053595371	PASS
RPS20	8	56067295	56074581	0.182873287	suppress_segment_too_large
RPS21	20	62387116	62388520	-0.172056771	suppress_segment_too_large
RPS23	5	82273358	82278577	-0.393084436	PASS
RPS24	10	78033732	78056813	0.032351597	PASS
RPS25	11	119015712	119018691	-0.431650509	PASS
RPS26	12	56041351	56044697	-0.743220499	PASS
RPS27	1	153990755	153992155	0.088103245	PASS
RPS27A	2	55231903	55235853	-0.052193497	PASS
RPS27L	15	63125872	63158021	-0.759380635	PASS
RPS28	19	8321158	8323340	-0.071973357	PASS
RPS29	14	49570984	49599164	0.053252507	PASS
RPS3	11	75399486	75422280	0.064535884	PASS
RPS3A	4	151099573	151104652	0.142431244	suppress_segment_too_large
RPS4X	23	72255679	72277300	0.158844052	PASS
RPS5	19	58386400	58394806	0.142581352	PASS
RPS6	9	19375715	19380254	0.073960965	PASS
RPS6KA1	1	26529761	26575030	0.048749694	PASS
RPS6KA2	6	166409364	166906451	0.033894706	PASS
RPS6KA3	23	20149911	20267519	0.158844052	PASS
RPS6KA4	11	64359148	64372215	0.064535884	PASS
RPS6KA5	14	90847862	91060636	-0.155273506	suppress_segment_too_large
RPS6KA6	23	84058346	84187907	0.158844052	PASS
RPS6KB1	17	59893046	59950564	0.051798665	PASS
RPS6KB2	11	67428460	67435408	0.064535884	PASS
RPS6KC1	1	213051233	213274773	-0.204996646	suppress_segment_too_large
RPS6KL1	14	74903954	74923396	-0.155273506	suppress_segment_too_large
RPS7	2	3575205	3580920	0.034263343	PASS
RPS8	1	44775251	44778779	-0.736943052	PASS
RPS9	19	54200742	54249003	0.142581352	PASS
RPSA	3	39406689	39412542	-0.727808231	PASS
RPTN	1	152153595	152159228	0.546958914	PASS
RPTOR	17	80544819	80966371	0.051798665	PASS
RPUSD1	16	784974	788397	0.053595371	PASS
RPUSD2	15	40569300	40574943	-0.423772929	PASS
RPUSD3	3	9837849	9844602	0.06149513	PASS
RPUSD4	11	126202094	126211692	-0.431650509	PASS
RRAD	16	66921679	66925644	-0.423061015	PASS
RRAGA	9	19049395	19050983	0.073960965	PASS
RRAGB	23	55717739	55758774	0.158844052	PASS
RRAGC	1	38838198	38859823	0.048749694	PASS
RRAGD	6	89364636	89412270	-0.355603029	PASS
RRAS	19	49635292	49640201	0.002743503	PASS
RRAS2	11	14277926	14364506	-0.39835217	PASS
RRBP1	20	17613678	17682295	-0.172056771	suppress_segment_too_large
RREB1	6	7107597	7251980	0.069043418	PASS
RRH	4	109827994	109844604	-0.677982248	PASS
RRM1	11	4094707	4138876	-0.39835217	PASS
RRM2	2	10120698	10131419	0.034263343	PASS
RRM2B	8	102204502	102239118	0.355469066	suppress_segment_too_large
RRN3	16	15060022	15094317	0.053595371	PASS
RRNAD1	1	156728442	156736960	0.088103245	PASS
RRP1	21	43789513	43805293	0.209983559	PASS
RRP12	10	97356358	97426076	-0.414937136	PASS

RRP15	1	218285287	218337983	-0.204996646	suppress_segment_too_large
RRP1B	21	43659548	43696079	0.209983559	PASS
RRP36	6	43021645	43034156	0.028532667	PASS
RRP7A	22	42509968	42519802	-0.740245994	PASS
RRP8	11	6595075	6603620	-0.39835217	PASS
RRP9	3	51933430	51941941	-0.727808231	PASS
RRS1	8	66429028	66430733	0.182873287	suppress_segment_too_large
RS1	23	18639910	18672109	0.158844052	PASS
RSAD1	17	50478800	50485975	0.051798665	PASS
RSAD2	2	6865806	6898239	0.034263343	PASS
RSBN1	1	113761832	113812476	0.079255572	PASS
RSBN1L	7	77696443	77783022	-0.701511252	PASS
RSC1A1	1	15659869	15661722	0.048749694	PASS
RSF1	11	77659996	77821017	0.064535884	PASS
RSL1D1	16	11833850	11851585	0.053595371	PASS
RSL24D1	15	55180806	55197067	-0.423772929	PASS
RSPH1	21	42472486	42496354	0.209983559	PASS
RSPH10B	7	5925550	5970683	-0.72421718	PASS
RSPH10B2	7	6754109	6799365	-0.72421718	PASS
RSPH14	22	23059415	23145021	-0.740245994	PASS
RSPH3	6	158972871	159000187	0.033894706	PASS
RSPH4A	6	116616479	116632985	-0.355603029	PASS
RSPH6A	19	45795710	45815319	0.002743503	PASS
RSPH9	6	43645046	43672599	0.028532667	PASS
RSPO1	1	37611350	37634923	0.048749694	PASS
RSPO2	8	107899316	108083648	0.70944438	suppress_segment_too_large
RSPO3	6	127118604	127197765	-0.304168115	PASS
RSPO4	20	958452	1002264	-0.172056771	suppress_segment_too_large
RSPRY1	16	57186137	57240475	-0.423061015	PASS
RSRC1	3	158105855	158545730	0.02267528	PASS
RSRC2	12	122503458	122527000	0.028722739	PASS
RSRP1	1	25242237	25338213	0.048749694	PASS
RSU1	10	16590611	16817528	0.075711544	PASS
RTBDN	19	12825478	12835428	-0.069222905	PASS
RTCA	1	100266207	100292769	0.079255572	PASS
RTCB	22	32387582	32412255	-0.740245994	PASS
RTEL1	20	63657810	63696253	-0.172056771	suppress_segment_too_large
RTEL1-TN	20	63659300	63698684	-0.172056771	suppress_segment_too_large
RTF1	15	41408408	41483563	-0.423772929	PASS
RTF2	20	56468585	56519449	-0.172056771	suppress_segment_too_large
RTKN	2	74425836	74442422	-0.46122572	PASS
RTKN2	10	62183035	62268707	0.032351597	PASS
RTL1	14	100879753	100903722	-0.155273506	suppress_segment_too_large
RTL10	22	19846138	19854896	-0.740245994	PASS
RTL3	23	78656069	78659328	0.158844052	PASS
RTL4	23	112454500	112457112	0.158844052	PASS
RTL5	23	72127110	72131901	0.158844052	PASS
RTL6	22	44492572	44498298	-0.953096644	PASS
RTL8A	23	135050932	135052196	0.158844052	PASS
RTL8B	23	135020504	135022529	0.158844052	PASS
RTL8C	23	135032366	135033546	0.158844052	PASS
RTL9	23	110358816	110456334	0.158844052	PASS
RTN1	14	59595976	59870966	0.053252507	PASS
RTN2	19	45485289	45497061	0.002743503	PASS

RTN3	11	63681446	63759891	0.064535884	PASS
RTN4	2	54972187	55112621	0.034263343	PASS
RTN4IP1	6	106571971	106629487	-0.355603029	PASS
RTN4R	22	20241415	20283246	-0.740245994	PASS
RTN4RL1	17	1934677	2025345	0.06854245	PASS
RTN4RL2	11	57460549	57477534	0.27006553	suppress_segment_too_large
RTP1	3	187197486	187201465	0.02267528	PASS
RTP2	3	187698259	187702557	0.02267528	PASS
RTP3	3	46497491	46500949	-0.727808231	PASS
RTP4	3	187368332	187372076	0.02267528	PASS
RTRAF	14	51989475	52010691	0.053252507	PASS
RTTN	18	70003031	70205945	-0.330515409	PASS
RUBCN	3	197671393	197749727	0.02267528	PASS
RUBCNL	13	46342000	46438190	-0.398748891	PASS
RUFY1	5	179550558	179610026	0.165341871	suppress_segment_too_large
RUFY2	10	68341107	68407294	0.032351597	PASS
RUFY3	4	70704204	70807315	0.115781418	suppress_segment_too_large
RUFY4	2	218034960	218090581	0.011001208	PASS
RUNDC1	17	42980565	42993690	0.041294512	PASS
RUNDC3A	17	44308413	44318671	0.051798665	PASS
RUNDC3B	7	87627548	87832296	-0.221864321	PASS
RUNX1	21	34787801	36004667	0.209983559	PASS
RUNX1T1	8	91954967	92103286	0.355469066	suppress_segment_too_large
RUNX2	6	45328157	45664349	0.028532667	PASS
RUNX3	1	24899511	24965121	0.048749694	PASS
RUSC1	1	155320896	155331114	0.088103245	PASS
RUSC2	9	35490127	35561898	0.073960965	PASS
RUVBL1	3	128064778	128153914	0.06434429	PASS
RUVBL2	19	48993448	49015995	0.002743503	PASS
RWDD1	6	116571367	116597675	-0.355603029	PASS
RWDD2A	6	83193379	83198932	-0.355603029	PASS
RWDD2B	21	29004384	29019378	0.209983559	PASS
RWDD3	1	95234155	95247225	0.079255572	PASS
RWDD4	4	183639635	183659225	-0.453876349	PASS
RXFP1	4	158315311	158653372	0.142431244	suppress_segment_too_large
RXFP2	13	31739542	31803388	-0.398748891	PASS
RXFP3	5	33936386	33938237	0.073527871	PASS
RXFP4	1	155941710	155942949	0.088103245	PASS
RXRA	9	134317098	134440585	0.073960965	PASS
RXRB	6	33193588	33200688	0.028532667	PASS
RXRG	1	165400917	165445355	0.088103245	PASS
RXYLT1	12	63779803	63809558	-0.743220499	PASS
RYBP	3	72371825	72446621	-0.727808231	PASS
RYK	3	134065303	134250744	0.06434429	PASS
RYR1	19	38433699	38587564	0.048917043	PASS
RYR2	1	237042205	237833988	-0.287484925	PASS
RYR3	15	33310945	33866121	-0.423772929	PASS
S100A1	1	153627926	153632039	0.088103245	PASS
S100A10	1	151982915	151994390	0.079255572	PASS
S100A11	1	152032506	152047907	0.079255572	PASS
S100A12	1	153373706	153375649	0.088103245	PASS
S100A13	1	153618787	153631360	0.088103245	PASS
S100A14	1	153614255	153616986	0.088103245	PASS
S100A16	1	153606886	153613145	0.088103245	PASS

S100A2	1	153561108	153567890	0.088103245	PASS
S100A3	1	153547329	153549372	0.088103245	PASS
S100A4	1	153543613	153550136	0.088103245	PASS
S100A5	1	153537147	153541765	0.088103245	PASS
S100A6	1	153534599	153536244	0.088103245	PASS
S100A7	1	153457744	153460701	0.088103245	PASS
S100A7A	1	153416524	153423225	0.088103245	PASS
S100A7L2	1	153437058	153439949	0.088103245	PASS
S100A8	1	153390032	153391188	0.088103245	PASS
S100A9	1	153357854	153361027	0.088103245	PASS
S100B	21	46598962	46605208	0.209983559	PASS
S100G	23	16650158	16654670	0.158844052	PASS
S100P	4	6693069	6697170	-0.358623662	PASS
S100PBP	1	32816767	32858879	0.048749694	PASS
S100Z	5	76850001	76921650	-0.393084436	PASS
S1PR1	1	101236865	101243713	0.079255572	PASS
S1PR2	19	10221433	10231331	-0.107594294	PASS
S1PR3	9	88990863	89005010	0.073960965	PASS
S1PR4	19	3172346	3180332	-0.071973357	PASS
S1PR5	19	10512742	10517931	-0.107594294	PASS
SAA1	11	18266174	18269977	-0.39835217	PASS
SAA2	11	18239223	18248643	-0.39835217	PASS
SAA2-SA/	11	18231423	18248635	-0.39835217	PASS
SAA4	11	18231349	18236893	-0.39835217	PASS
SAAL1	11	18069935	18106091	-0.39835217	PASS
SAC3D1	11	65040901	65044828	0.064535884	PASS
SACM1L	3	45689056	45745424	-0.727808231	PASS
SACS	13	23328826	23433740	-0.398748891	PASS
SAE1	19	47113274	47210636	0.002743503	PASS
SAFB	19	5623035	5668478	-0.071973357	PASS
SAFB2	19	5586999	5624046	-0.071973357	PASS
SAG	2	233307816	233347055	0.011001208	PASS
SAGE1	23	135889205	135913061	0.158844052	PASS
SALL1	16	51135975	51151367	-0.423061015	PASS
SALL2	14	21521081	21537216	0.053252507	PASS
SALL3	18	78980275	79002677	-0.330515409	PASS
SALL4	20	51782331	51802520	-0.172056771	suppress_segment_too_large
SAMD1	19	14087840	14091036	-0.069222905	PASS
SAMD10	20	63974113	63980008	-0.172056771	suppress_segment_too_large
SAMD11	1	923928	944581	-0.358281697	PASS
SAMD12	8	118189455	118622112	0.493344802	suppress_segment_too_large
SAMD13	1	84298366	84389957	0.587598296	PASS
SAMD14	17	50110040	50129882	0.051798665	PASS
SAMD15	14	77376689	77391497	-0.155273506	suppress_segment_too_large
SAMD3	6	130144315	130365425	-0.304168115	PASS
SAMD4A	14	54567097	54793315	0.053252507	PASS
SAMD4B	19	39342396	39385710	0.048917043	PASS
SAMD5	6	147508927	147737547	0.033894706	PASS
SAMD7	3	169911572	169939175	0.02267528	PASS
SAMD8	10	75099586	75182123	0.032351597	PASS
SAMD9	7	93099513	93118023	-0.710463272	PASS
SAMD9L	7	93130055	93148369	-0.710463272	PASS
SAMHD1	20	36889773	36951901	-0.172056771	suppress_segment_too_large
SAMM50	22	43955421	44010531	-0.953096644	PASS

SAMSN1	21	14485228	14658821	0.758930684	suppress_segment_too_large
SAP130	2	127941217	128028120	-0.359440172	PASS
SAP18	13	21140514	21149084	-0.398748891	PASS
SAP25	7	100572228	100573820	-0.710463272	PASS
SAP30	4	173369969	173377532	0.142431244	suppress_segment_too_large
SAP30BP	17	75667116	75708062	0.051798665	PASS
SAP30L	5	154445957	154461054	-0.393084436	PASS
SAPCD1	6	31762799	31764851	0.028532667	PASS
SAPCD2	9	137062124	137070588	0.073960965	PASS
SAR1A	10	70147289	70170523	0.032351597	PASS
SAR1B	5	134601144	134649271	-0.393084436	PASS
SARAF	8	30063012	30083208	-0.311940419	PASS
SARDH	9	133663560	133739955	0.073960965	PASS
SARM1	17	28364356	28404049	0.041294512	PASS
SARNP	12	55752463	55817756	-0.743220499	PASS
SARS	1	109213918	109238169	0.079255572	PASS
SARS2	19	38915266	38930896	0.048917043	PASS
SART1	11	65961689	65979828	0.064535884	PASS
SART3	12	108522580	108561400	0.028722739	PASS
SASH1	6	148272304	148552050	0.033894706	PASS
SASH3	23	129779979	129795201	0.158844052	PASS
SASS6	1	100083563	100132955	0.079255572	PASS
SAT1	23	23783173	23786226	0.158844052	PASS
SAT2	17	7626234	7627876	0.06854245	PASS
SATB1	3	18345387	18445588	0.06149513	PASS
SATB2	2	199269500	199471266	0.011001208	PASS
SATL1	23	85092287	85243961	0.158844052	PASS
SAV1	14	50632058	50668331	0.053252507	PASS
SAXO1	9	18858906	19049358	0.073960965	PASS
SAXO2	15	82262810	82284930	-0.759380635	PASS
SAYSD1	6	39104064	39115189	0.028532667	PASS
SBDS	7	66987677	66995601	-0.701511252	PASS
SBF1	22	50445000	50475024	-0.953096644	PASS
SBF2	11	9778667	10294207	-0.39835217	PASS
SBK1	16	28292519	28323849	0.053595371	PASS
SBK2	19	55529733	55537089	0.142581352	PASS
SBK3	19	55540656	55545543	0.142581352	PASS
SBNO1	12	123289109	123364843	0.028722739	PASS
SBNO2	19	1107636	1174283	-0.071973357	PASS
SBSN	19	35523367	35528351	0.044838622	PASS
SBSPON	8	73064540	73124088	0.182873287	suppress_segment_too_large
SC5D	11	121292453	121308694	-0.431650509	PASS
SCAF1	19	49642125	49658642	0.002743503	PASS
SCAF11	12	45919131	45992120	-0.46813528	PASS
SCAF4	21	31671033	31732075	0.209983559	PASS
SCAF8	6	154733325	154834244	0.033894706	PASS
SCAI	9	124942608	125143506	0.073960965	PASS
SCAMP1	5	78360583	78479071	-0.393084436	PASS
SCAMP2	15	74843730	74873365	-0.759380635	PASS
SCAMP3	1	155255979	155262430	0.088103245	PASS
SCAMP4	19	1905214	1926013	-0.071973357	PASS
SCAMP5	15	74957219	75021496	-0.759380635	PASS
SCAND1	20	35953617	35959472	-0.172056771	suppress_segment_too_large
SCAP	3	47413694	47477126	-0.727808231	PASS

SCAPER	15	76347904	76905444	-0.759380635	PASS
SCARA3	8	27633868	27676776	-0.311940419	PASS
SCARA5	8	27869882	27992727	-0.311940419	PASS
SCARB1	12	124776856	124882668	0.028722739	PASS
SCARB2	4	76158733	76234536	-0.677982248	PASS
SCARF1	17	1633858	1645747	0.06854245	PASS
SCARF2	22	20424815	20437826	-0.740245994	PASS
SCART1	10	133453928	133523558	0.073090211	PASS
SCCPDH	1	246724047	246768137	-0.145670469	suppress_likely_unfocal_large_gain
SCD	10	100347124	100364834	-0.414937136	PASS
SCD5	4	82629539	82798857	-0.677982248	PASS
SCEL	13	77535674	77645263	-0.384313056	PASS
SCFD1	14	30622112	30735812	0.053252507	PASS
SCFD2	4	52872982	53366075	0.115781418	suppress_segment_too_large
SCG2	2	223596940	223602503	0.011001208	PASS
SCG3	15	51681353	51721031	-0.423772929	PASS
SCG5	15	32641676	32697098	-0.423772929	PASS
SCGB1A1	11	62405103	62423195	0.064535884	PASS
SCGB1C1	11	193080	194573	-0.39835217	PASS
SCGB1C2	17	137526	139067	0.06854245	PASS
SCGB1D1	11	62190216	62193539	0.064535884	PASS
SCGB1D2	11	62242210	62244808	0.064535884	PASS
SCGB1D4	11	62296277	62299064	0.064535884	PASS
SCGB2A1	11	62208668	62213939	0.064535884	PASS
SCGB2A2	11	62270155	62273156	0.064535884	PASS
SCGB2B2	19	34593329	34675699	0.044838622	PASS
SCGB3A1	5	180590103	180591540	0.165341871	suppress_segment_too_large
SCGB3A2	5	147870682	147882191	-0.393084436	PASS
SCGN	6	25652201	25701783	0.069043418	PASS
SCHIP1	3	159839861	159897360	0.02267528	PASS
SCIMP	17	5208961	5234860	0.06854245	PASS
SCIN	7	12570577	12660179	-0.72421718	PASS
SCLT1	4	128864921	129093607	0.142431244	suppress_segment_too_large
SCLY	2	238060889	238099413	0.011001208	PASS
SCMH1	1	41027200	41242154	0.048749694	PASS
SCML1	23	17737449	17754988	0.158844052	PASS
SCML2	23	18239314	18354727	0.158844052	PASS
SCML4	6	107704104	107824317	-0.355603029	PASS
SCN10A	3	38696807	38816217	-0.727808231	PASS
SCN11A	3	38845769	38950561	-0.727808231	PASS
SCN1A	2	165984641	166149214	0.319987345	PASS
SCN1B	19	35030466	35040449	0.044838622	PASS
SCN2A	2	165194993	165392310	0.319987345	PASS
SCN2B	11	118161951	118176673	-0.431650509	PASS
SCN3A	2	165087522	165204067	0.319987345	PASS
SCN3B	11	123629187	123655244	-0.431650509	PASS
SCN4A	17	63938554	63972918	0.051798665	PASS
SCN4B	11	118133377	118152888	-0.431650509	PASS
SCN5A	3	38548057	38649673	-0.727808231	PASS
SCN7A	2	166403573	166494326	0.319987345	PASS
SCN8A	12	51590266	51812864	-0.743220499	PASS
SCN9A	2	166195185	166376001	0.319987345	PASS
SCNM1	1	151156664	151170297	0.079255572	PASS
SCNN1A	12	6346843	6377730	-0.015029783	PASS

SCNN1B	16	23278231	23381299	0.053595371	PASS
SCNN1D	1	1280436	1292029	-0.358281697	PASS
SCNN1G	16	23182715	23216883	0.053595371	PASS
SCO1	17	10672474	10698375	0.06854245	PASS
SCO2	22	50523568	50526439	-0.953096644	PASS
SCOC	4	140257286	140385726	0.142431244	suppress_segment_too_large
SCP2	1	52927229	53051703	-0.736943052	PASS
SCP2D1	20	18813726	18814392	-0.172056771	suppress_segment_too_large
SCPEP1	17	56978105	57006768	0.051798665	PASS
SCRG1	4	173384701	173406380	0.142431244	suppress_segment_too_large
SCRIB	8	143790920	143815379	0.699132336	PASS
SCRN1	7	29920103	29990289	-0.72421718	PASS
SCRN2	17	47837692	47841333	0.051798665	PASS
SCRN3	2	174395730	174429575	0.033541467	PASS
SCRT1	8	144330565	144336281	0.699132336	PASS
SCRT2	20	661596	676179	-0.172056771	suppress_segment_too_large
SCT	11	626431	627143	-0.39835217	PASS
SCTR	2	119439843	119525301	-0.359440172	PASS
SCUBE1	22	43197283	43343388	-0.740245994	PASS
SCUBE2	11	9019498	9138114	-0.39835217	PASS
SCUBE3	6	35214419	35253079	0.028532667	PASS
SCX	8	144266560	144268481	0.699132336	PASS
SCYL1	11	65525077	65538704	0.064535884	PASS
SCYL2	12	100267140	100341724	0.028722739	PASS
SCYL3	1	169849631	169894267	0.088103245	PASS
SDAD1	4	75940950	75990962	-0.677982248	PASS
SDC1	2	20200797	20225433	0.034263343	PASS
SDC2	8	96493351	96611780	0.355469066	suppress_segment_too_large
SDC3	1	30869467	30908761	0.048749694	PASS
SDC4	20	45325288	45348424	-0.172056771	suppress_segment_too_large
SDCBP	8	58552924	58582860	0.182873287	suppress_segment_too_large
SDCBP2	20	1309909	1329239	-0.172056771	suppress_segment_too_large
SDCCAG8	1	243256034	243500092	-0.287484925	PASS
SDE2	1	225982702	225999331	-0.204996646	suppress_segment_too_large
SDF2	17	28648356	28662189	0.041294512	PASS
SDF2L1	22	21642261	21644298	-0.740245994	PASS
SDF4	1	1216908	1232031	-0.358281697	PASS
SDHA	5	218241	256700	0.073527871	PASS
SDHAF1	19	35995199	35996315	0.044838622	PASS
SDHAF2	11	61430042	61447529	0.064535884	PASS
SDHAF3	7	97116590	97181763	-0.710463272	PASS
SDHAF4	6	70566917	70589569	-0.250122709	PASS
SDHB	1	17018722	17054170	0.048749694	PASS
SDHC	1	161314257	161375340	0.088103245	PASS
SDHD	11	112086773	112120013	-0.431650509	PASS
SDK1	7	3301448	4269000	-0.72421718	PASS
SDK2	17	73334384	73644089	0.051798665	PASS
SDR16C5	8	56300010	56320776	0.182873287	suppress_segment_too_large
SDR39U1	14	24439766	24442905	0.053252507	PASS
SDR42E1	16	81988855	82011488	-0.423061015	PASS
SDR42E2	16	22165583	22191754	0.053595371	PASS
SDR9C7	12	56923154	56934405	-0.743220499	PASS
SDS	12	113392445	113426301	0.028722739	PASS
SDSL	12	113422237	113438276	0.028722739	PASS

SEBOX	17	28364268	28365244	0.041294512	PASS
SEC11A	15	84669538	84716716	-0.759380635	PASS
SEC11C	18	59139477	59158836	-0.330515409	PASS
SEC13	3	10293131	10321178	0.06149513	PASS
SEC14L1	17	77088749	77217101	0.051798665	PASS
SEC14L2	22	30396857	30425317	-0.740245994	PASS
SEC14L3	22	30447959	30472049	-0.740245994	PASS
SEC14L4	22	30488913	30505711	-0.740245994	PASS
SEC14L5	16	4958317	5019158	0.053595371	PASS
SEC14L6	22	30522799	30546682	-0.740245994	PASS
SEC16A	9	136440096	136483759	0.073960965	PASS
SEC16B	1	177923956	177984303	0.088103245	PASS
SEC22A	3	123201927	123274130	0.06434429	PASS
SEC22B	1	120150898	120176515	0.079255572	PASS
SEC22C	3	42547969	42601080	-0.727808231	PASS
SEC23A	14	39031919	39109646	0.053252507	PASS
SEC23B	20	18507482	18561415	-0.172056771	suppress_segment_too_large
SEC23IP	10	119892711	119944658	0.073090211	PASS
SEC24A	5	134648789	134727823	-0.393084436	PASS
SEC24B	4	109433772	109540896	-0.677982248	PASS
SEC24C	10	73744384	73772161	0.032351597	PASS
SEC24D	4	118722823	118838683	-0.754119944	PASS
SEC31A	4	82818661	82901166	-0.677982248	PASS
SEC31B	10	100486642	100519864	-0.414937136	PASS
SEC61A1	3	128051641	128071683	0.06434429	PASS
SEC61A2	10	12129637	12169961	0.075711544	PASS
SEC61B	9	99222064	99230615	0.073960965	PASS
SEC61G	7	54752250	54759974	-0.701511252	PASS
SEC62	3	169966635	169998373	0.02267528	PASS
SEC63	6	107867756	107958189	-0.355603029	PASS
SECISBP2	9	89318506	89359662	0.073960965	PASS
SECISBP2	15	48988476	49046563	-0.423772929	PASS
SECTM1	17	82321024	82334074	0.051798665	PASS
SEH1L	18	12947133	12987536	0.044197172	PASS
SEL1L	14	81471549	81533861	-0.155273506	suppress_segment_too_large
SEL1L2	20	13849247	13996443	-0.172056771	suppress_segment_too_large
SEL1L3	4	25747427	25863760	-2.804710927	PASS
SELE	1	169722641	169764705	0.088103245	PASS
SELENBP	1	151364302	151372733	0.079255572	PASS
SELENOF	1	86862445	86914424	0.079255572	PASS
SELENOH	11	57741250	57743554	0.27006553	suppress_segment_too_large
SELENOI	2	26308547	26395891	0.034263343	PASS
SELENOK	3	53884410	53891988	-0.727808231	PASS
SELENOM	22	31104772	31120069	-0.740245994	PASS
SELENON	1	25800176	25818224	0.048749694	PASS
SELENOO	22	50200979	50217616	-0.953096644	PASS
SELENOP	5	42799880	42887392	-0.284712224	PASS
SELENOS	15	101270817	101277500	-0.759380635	PASS
SELENOT	3	150602875	150630445	0.02267528	PASS
SELENOV	19	39515113	39520686	0.048917043	PASS
SELENOW	19	47778572	47784686	0.002743503	PASS
SELL	1	169690667	169711698	0.088103245	PASS
SELP	1	169588849	169630193	0.088103245	PASS
SELPLG	12	108622277	108633959	0.028722739	PASS

SEM1	7	96481626	96709891	-0.710463272	PASS
SEMA3A	7	83955777	84492724	-0.221864321	PASS
SEMA3B	3	50267558	50277546	-0.727808231	PASS
SEMA3C	7	80742538	80922359	-0.701511252	PASS
SEMA3D	7	84995553	85186855	-0.221864321	PASS
SEMA3E	7	83363238	83649113	-0.221864321	PASS
SEMA3F	3	50155045	50189075	-0.727808231	PASS
SEMA3G	3	52433053	52445085	-0.727808231	PASS
SEMA4A	1	156147366	156177752	0.088103245	PASS
SEMA4B	15	90160604	90229679	-0.759380635	PASS
SEMA4C	2	96859716	96870757	0.064122364	PASS
SEMA4D	9	89360787	89498130	0.073960965	PASS
SEMA4F	2	74654228	74683853	-0.46122572	PASS
SEMA4G	10	100969518	100985871	-0.414937136	PASS
SEMA5A	5	9035026	9546075	0.073527871	PASS
SEMA5B	3	122909082	123028605	0.06434429	PASS
SEMA6A	5	116443616	116574934	-0.393084436	PASS
SEMA6B	19	4542593	4559808	-0.071973357	PASS
SEMA6C	1	151131685	151146664	0.079255572	PASS
SEMA6D	15	47184101	47774223	-0.423772929	PASS
SEMA7A	15	74409289	74433958	-0.759380635	PASS
SEMG1	20	45206997	45209772	-0.172056771	suppress_segment_too_large
SEMG2	20	45221300	45224458	-0.172056771	suppress_segment_too_large
SENP1	12	48042898	48106308	-0.743220499	PASS
SENP2	3	185582496	185633551	0.02267528	PASS
SENP3	17	7561875	7571969	0.06854245	PASS
SENP3-EII	17	7563287	7578715	0.06854245	PASS
SENP5	3	196867856	196934714	0.02267528	PASS
SENP6	6	75601509	75718278	-0.250122709	PASS
SENP7	3	101324205	101513241	0.22470242	PASS
SENP8	15	72114258	72143688	-0.759380635	PASS
SEPHS1	10	13317424	13348298	0.075711544	PASS
SEPHS2	16	30443631	30446181	0.053595371	PASS
SEPSECS	4	25120014	25160442	-0.358623662	PASS
SEPT1	16	30378133	30395991	0.053595371	PASS
SEPT10	2	109542982	109614206	0.040971718	PASS
SEPT11	4	76949703	77040384	-0.677982248	PASS
SEPT12	16	4777669	4788521	0.053595371	PASS
SEPT14	7	55793544	55862789	-0.701511252	PASS
SEPT3	22	41969475	41998221	-0.740245994	PASS
SEPT4	17	58520250	58540818	0.051798665	PASS
SEPT5	22	19714464	19724224	-0.740245994	PASS
SEPT5-GP	22	19717220	19724772	-0.740245994	PASS
SEPT6	23	119615724	119693370	0.158844052	PASS
SEPT7	7	35800932	35907105	-0.72421718	PASS
SEPT8	5	132750817	132807241	-0.393084436	PASS
SEPT9	17	77280569	77500596	0.051798665	PASS
SERAC1	6	158109515	158168280	0.033894706	PASS
SERBP1	1	67407810	67430415	0.052232535	PASS
SERF1B	5	70025247	70043113	-0.393084436	PASS
SERF2	15	43777087	43802589	-0.423772929	PASS
SERGEF	11	17788048	18013162	-0.39835217	PASS
SERHL2	22	42553617	42574382	-0.740245994	PASS
SERINC1	6	122443354	122471822	-0.355603029	PASS

SERINC2	1	31409565	31434680	0.048749694	PASS
SERINC3	20	44496221	44522109	-0.172056771	suppress_segment_too_large
SERINC4	15	43794162	43800221	-0.423772929	PASS
SERINC5	5	80111651	80256079	-0.393084436	PASS
SERP1	3	150541994	150603228	0.02267528	PASS
SERP2	13	44373665	44397714	-0.398748891	PASS
SERPINA1	14	94376747	94390693	-0.155273506	suppress_segment_too_large
SERPINA1	14	94280455	94293271	-0.155273506	suppress_segment_too_large
SERPINA1	14	94442464	94452790	-0.155273506	suppress_segment_too_large
SERPINA1	14	94487274	94517844	-0.155273506	suppress_segment_too_large
SERPINA3	14	94612377	94624055	-0.155273506	suppress_segment_too_large
SERPINA4	14	94561091	94569913	-0.155273506	suppress_segment_too_large
SERPINA5	14	94561442	94593120	-0.155273506	suppress_segment_too_large
SERPINA6	14	94304248	94323394	-0.155273506	suppress_segment_too_large
SERPINA7	23	106032442	106038738	0.158844052	PASS
SERPINA9	14	94462717	94479689	-0.155273506	suppress_segment_too_large
SERPINB1	6	2832332	2842006	0.069043418	PASS
SERPINB1	18	63897174	63936111	-0.330515409	PASS
SERPINB1	18	63647579	63726432	-0.330515409	PASS
SERPINB1	18	63556160	63567011	-0.330515409	PASS
SERPINB1	18	63586989	63604639	-0.330515409	PASS
SERPINB2	18	63871692	63903890	-0.330515409	PASS
SERPINB3	18	63655197	63661963	-0.330515409	PASS
SERPINB4	18	63637259	63644298	-0.330515409	PASS
SERPINB5	18	63476761	63505085	-0.330515409	PASS
SERPINB6	6	2948159	2972165	0.069043418	PASS
SERPINB7	18	63752935	63805376	-0.330515409	PASS
SERPINB8	18	63969925	64019779	-0.330515409	PASS
SERPINB9	6	2887266	2903280	0.069043418	PASS
SERPINC1	1	173903804	173917378	0.088103245	PASS
SERPIND1	22	20773879	20787720	-0.740245994	PASS
SERPINE1	7	101127089	101139266	-0.712149877	PASS
SERPINE2	2	223975112	224039319	0.011001208	PASS
SERPINE3	13	51335773	51364735	-0.384313056	PASS
SERPINF1	17	1761959	1777574	0.06854245	PASS
SERPINF2	17	1742836	1755268	0.06854245	PASS
SERPING1	11	57597387	57614853	0.27006553	suppress_segment_too_large
SERPINH1	11	75562056	75572783	0.064535884	PASS
SERPINI1	3	167735243	167825568	0.02267528	PASS
SERPINI2	3	167441789	167479004	0.02267528	PASS
SERTAD1	19	40421592	40426025	0.048917043	PASS
SERTAD2	2	64631621	64751005	-0.46122572	PASS
SERTAD3	19	40440844	40444705	0.048917043	PASS
SERTAD4	1	210232799	210246631	-0.204996646	suppress_segment_too_large
SERTM1	13	36673912	36697839	-0.398748891	PASS
SESN1	6	108986437	109094819	-0.355603029	PASS
SESN2	1	28259527	28282491	0.048749694	PASS
SESN3	11	95165513	95232541	0.32805343	suppress_segment_too_large
SESTD1	2	179101692	179264790	0.162734012	PASS
SET	9	128683424	128696400	0.073960965	PASS
SETBP1	18	44680173	45068510	-0.330515409	PASS
SETD1A	16	30957294	30984664	0.053595371	PASS
SETD1B	12	121804180	121832584	0.028722739	PASS
SETD2	3	47016429	47163967	-0.727808231	PASS

SETD3	14	99397746	99480889	-0.155273506	suppress_segment_too_large
SETD4	21	36034541	36079389	0.209983559	PASS
SETD5	3	9397615	9479240	0.06149513	PASS
SETD6	16	58515479	58521181	-0.423061015	PASS
SETD7	4	139495941	139606699	0.142431244	suppress_segment_too_large
SETD9	5	56909260	56925532	-0.284712224	PASS
SETDB1	1	150926263	150964744	0.079255572	PASS
SETDB2	13	49444374	49495003	-0.384313056	PASS
SETMAR	3	4303304	4317567	0.06149513	PASS
SETSIP	1	92074533	92075441	0.079255572	PASS
SETX	9	132261356	132354985	0.073960965	PASS
SEZ6	17	28954901	29006440	0.041294512	PASS
SEZ6L	22	26169474	26383597	-0.740245994	PASS
SEZ6L2	16	29871159	29899547	0.053595371	PASS
SF1	11	64764606	64778786	0.064535884	PASS
SF3A1	22	30331988	30356947	-0.740245994	PASS
SF3A2	19	2236504	2248679	-0.071973357	PASS
SF3A3	1	37956975	37990921	0.048749694	PASS
SF3B1	2	197389784	197435091	0.011001208	PASS
SF3B2	11	66050729	66069308	0.064535884	PASS
SF3B3	16	70523788	70577670	-0.423061015	PASS
SF3B4	1	149923317	149928344	0.079255572	PASS
SF3B5	6	144094881	144095573	0.033894706	PASS
SF3B6	2	24067584	24076443	0.034263343	PASS
SFI1	22	31488688	31618586	-0.740245994	PASS
SFMBT1	3	52903572	53046750	-0.727808231	PASS
SFMBT2	10	7158624	7411486	0.075711544	PASS
SFN	1	26863138	26864457	0.048749694	PASS
SFPQ	1	35176378	35193148	0.048749694	PASS
SFR1	10	104122058	104126385	-0.414937136	PASS
SFRP1	8	41261958	41309497	0.182873287	suppress_segment_too_large
SFRP2	4	153780592	153789120	0.142431244	suppress_segment_too_large
SFRP4	7	37905932	38025695	-0.72421718	PASS
SFRP5	10	97766751	97771952	-0.414937136	PASS
SFSWAP	12	131711081	131799737	0.028722739	PASS
SFT2D1	6	166319728	166342591	0.033894706	PASS
SFT2D2	1	168225938	168253025	0.088103245	PASS
SFT2D3	2	127701508	127705242	-0.359440172	PASS
SFTA2	6	30931353	30955636	0.069043418	PASS
SFTA3	14	36473288	36513829	0.053252507	PASS
SFTPA1	10	79610939	79615455	0.032351597	PASS
SFTPA2	10	79555852	79560402	0.032351597	PASS
SFTPB	2	85657314	85668741	0.064122364	PASS
SFTPC	8	22156913	22164479	-0.311940419	PASS
SFTPD	10	79937740	79982614	0.032351597	PASS
SFXN1	5	175477062	175529742	0.165341871	suppress_segment_too_large
SFXN2	10	102714538	102743492	-0.414937136	PASS
SFXN3	10	101031234	101041244	-0.414937136	PASS
SFXN4	10	119140767	119165667	0.073090211	PASS
SFXN5	2	72942036	73075619	-0.46122572	PASS
SGCA	17	50164214	50175931	0.051798665	PASS
SGCB	4	52020706	52038482	0.115781418	suppress_segment_too_large
SGCD	5	155870344	156767788	-0.393084436	PASS
SGCE	7	94524204	94656572	-0.710463272	PASS

SGCG	13	23180952	23325165	-0.398748891	PASS
SGCZ	8	14089864	15238339	-0.311940419	PASS
SGF29	16	28553915	28591790	0.053595371	PASS
SGIP1	1	66533383	66748299	0.052232535	PASS
SGK1	6	134169246	134318112	0.033894706	PASS
SGK2	20	43558968	43588237	-0.172056771	suppress_segment_too_large
SGK3	8	66667596	66862022	0.182873287	suppress_segment_too_large
SGK494	17	28607964	28614200	0.041294512	PASS
SGMS1	10	50305586	50625163	-0.389033546	PASS
SGMS2	4	107824563	107915047	-0.677982248	PASS
SGO1	3	20160593	20186292	0.06149513	PASS
SGO2	2	200510008	200583782	0.011001208	PASS
SGPL1	10	70815961	70881173	0.032351597	PASS
SGPP1	14	63684214	63728039	0.053252507	PASS
SGPP2	2	222424517	222560948	0.011001208	PASS
SGSH	17	80206716	80220923	0.051798665	PASS
SGSM1	22	24806169	24927578	-0.740245994	PASS
SGSM2	17	2337498	2381058	0.06854245	PASS
SGSM3	22	40370591	40410289	-0.740245994	PASS
SGTA	19	2754714	2783371	-0.071973357	PASS
SGTB	5	65665928	65723035	-0.393084436	PASS
SH2B1	16	28846600	28874212	0.053595371	PASS
SH2B2	7	102285091	102321711	-0.712149877	PASS
SH2B3	12	111405948	111451623	0.028722739	PASS
SH2D1A	23	124227868	124373197	0.158844052	PASS
SH2D1B	1	162395266	162412138	0.088103245	PASS
SH2D2A	1	156806243	156816862	0.088103245	PASS
SH2D3A	19	6752160	6767588	-0.071973357	PASS
SH2D3C	9	127738317	127778741	0.073960965	PASS
SH2D4A	8	19313617	19396218	-0.311940419	PASS
SH2D4B	10	80537902	80646560	0.032351597	PASS
SH2D5	1	20719732	20732837	0.048749694	PASS
SH2D6	2	85418721	85437029	0.064122364	PASS
SH2D7	15	78077808	78104909	-0.759380635	PASS
SH3BGR	21	39445855	39515506	0.209983559	PASS
SH3BGRL	23	81201943	81298547	0.158844052	PASS
SH3BGRL	6	79631283	79703659	-0.250122709	PASS
SH3BGRL	1	26279176	26281522	0.048749694	PASS
SH3BP1	22	37634654	37656119	-0.740245994	PASS
SH3BP2	4	2793023	2841098	-0.358623662	PASS
SH3BP4	2	234951973	235055714	0.011001208	PASS
SH3BP5	3	15254853	15341368	0.06149513	PASS
SH3BP5L	1	248810446	248826633	0.019108461	PASS
SH3D19	4	151102751	151325632	0.142431244	suppress_segment_too_large
SH3D21	1	36306387	36324886	0.048749694	PASS
SH3GL1	19	4360370	4400547	-0.071973357	PASS
SH3GL2	9	17579082	17797129	0.073960965	PASS
SH3GL3	15	83447228	83618743	-0.759380635	PASS
SH3GLB1	1	86704570	86748184	0.079255572	PASS
SH3GLB2	9	129007036	129028303	0.073960965	PASS
SH3KBP1	23	19533975	19887601	0.158844052	PASS
SH3PXD2A	10	103594027	103855543	-0.414937136	PASS
SH3PXD2B	5	172325000	172454523	0.165341871	suppress_segment_too_large
SH3RF1	4	169094256	169271105	0.142431244	suppress_segment_too_large

SH3RF2	5	145936579	146081791	-0.393084436	PASS
SH3RF3	2	109129348	109504632	0.040971718	PASS
SH3TC1	4	8182072	8241803	-0.358623662	PASS
SH3TC2	5	148923639	149063163	-0.393084436	PASS
SH3YL1	2	217730	266398	0.034263343	PASS
SHANK1	19	50661827	50719450	0.002743503	PASS
SHANK2	11	70467856	71252577	0.064535884	PASS
SHANK3	22	50674415	50733298	-0.953096644	PASS
SHARPIN	8	144098633	144108124	0.699132336	PASS
SHB	9	37919134	38069211	0.073960965	PASS
SHBG	17	7613946	7633383	0.06854245	PASS
SHC1	1	154962298	154974395	0.088103245	PASS
SHC2	19	416583	460996	-0.071973357	PASS
SHC3	9	89005771	89178767	0.073960965	PASS
SHC4	15	48823735	48963444	-0.423772929	PASS
SHCBP1	16	46580554	46621626	0.053595371	PASS
SHCBP1L	1	182899865	182953525	0.088103245	PASS
SHD	19	4278601	4290724	-0.071973357	PASS
SHE	1	154469772	154502113	0.088103245	PASS
SHF	15	45167214	45201175	-0.423772929	PASS
SHH	7	155799986	155812273	-0.77630473	PASS
SHISA2	13	26044597	26051031	-0.398748891	PASS
SHISA3	4	42397839	42402487	-0.753159364	PASS
SHISA4	1	201888680	201892306	-0.204996646	suppress_segment_too_large
SHISA5	3	48467798	48504826	-0.727808231	PASS
SHISA6	17	11241263	11564063	0.06854245	PASS
SHISA7	19	55428740	55442863	0.142581352	PASS
SHISA8	22	41909554	41914667	-0.740245994	PASS
SHISA9	16	12901620	13240413	0.053595371	PASS
SHISAL1	22	44243667	44312851	-0.953096644	PASS
SHISAL2A	1	52633344	52669683	-0.736943052	PASS
SHISAL2B	5	64690308	64718090	-0.393084436	PASS
SHKBP1	19	40576851	40591399	0.048917043	PASS
SHLD1	20	5750393	5863912	-0.172056771	suppress_segment_too_large
SHLD2	10	87094161	87191468	-0.461254852	PASS
SHLD3	5	65624765	65630891	-0.393084436	PASS
SHMT1	17	18327860	18363563	0.06854245	PASS
SHMT2	12	57229327	57234935	-0.743220499	PASS
SHOC2	10	110919547	111013667	0.073090211	PASS
SHOX	23	624344	659411	-0.350651546	PASS
SHOX2	3	158095954	158106503	0.02267528	PASS
SHPK	17	3608262	3636322	0.06854245	PASS
SHPRH	6	145864245	145964423	0.033894706	PASS
SHQ1	3	72749277	72861914	-0.727808231	PASS
SHROOM1	5	132822141	132830898	-0.393084436	PASS
SHROOM2	23	9786456	9949443	0.158844052	PASS
SHROOM3	4	76435100	76783253	-0.677982248	PASS
SHROOM4	23	50591647	50814302	0.158844052	PASS
SHTN1	10	116881482	117126586	0.073090211	PASS
SI	3	164978898	165078495	0.02267528	PASS
SIAE	11	124633113	124695707	-0.431650509	PASS
SIAH1	16	48356364	48448402	0.053595371	PASS
SIAH2	3	150741127	150763477	0.02267528	PASS
SIAH3	13	45777243	45851736	-0.398748891	PASS

SIDT1	3	113532296	113629578	0.06434429	PASS
SIDT2	11	117178733	117197445	-0.431650509	PASS
SIGIRR	11	405716	417455	-0.39835217	PASS
SIGLEC1	20	3686970	3707128	-0.172056771	suppress_segment_too_large
SIGLEC10	19	51410021	51417803	0.002743503	PASS
SIGLEC11	19	49948985	49961172	0.002743503	PASS
SIGLEC12	19	51491357	51501789	0.002743503	PASS
SIGLEC14	19	51642553	51646801	0.002743503	PASS
SIGLEC15	18	45825512	45844080	-0.330515409	PASS
SIGLEC5	19	51611927	51645545	0.002743503	PASS
SIGLEC6	19	51519525	51531856	0.002743503	PASS
SIGLEC7	19	51142299	51153526	0.002743503	PASS
SIGLEC8	19	51450847	51458456	0.002743503	PASS
SIGLEC9	19	51124908	51136651	0.002743503	PASS
SIGLECL1	19	51246348	51269330	0.002743503	PASS
SIGMAR1	9	34634722	34637809	0.073960965	PASS
SIK1B	21	6111134	6123739	0.220071762	PASS
SIK2	11	111602391	111730853	-0.431650509	PASS
SIK3	11	116843402	117098437	-0.431650509	PASS
SIKE1	1	114769479	114780685	0.079255572	PASS
SIL1	5	138946720	139293557	-0.393084436	PASS
SIM1	6	100385015	100464929	-0.355603029	PASS
SIM2	21	36699133	36749917	0.209983559	PASS
SIMC1	5	176238367	176345991	0.165341871	suppress_segment_too_large
SIN3A	15	75369379	75455842	-0.759380635	PASS
SIN3B	19	16829400	16880353	-0.069222905	PASS
SINHCAF	12	31280584	31327058	0.49032213	suppress_segment_too_large
SIPA1	11	65638097	65650930	0.064535884	PASS
SIPA1L1	14	71320449	71741229	0.053252507	PASS
SIPA1L2	1	232397965	232561558	-0.204996646	suppress_segment_too_large
SIPA1L3	19	37907228	38208372	0.048917043	PASS
SIRPA	20	1894167	1940592	-0.172056771	suppress_segment_too_large
SIRPB1	20	1563521	1620061	-0.172056771	suppress_segment_too_large
SIRPB2	20	1470741	1491587	-0.172056771	suppress_segment_too_large
SIRPD	20	1534251	1558843	-0.172056771	suppress_segment_too_large
SIRPG	20	1629152	1657779	-0.172056771	suppress_segment_too_large
SIRT1	10	67884669	67918390	0.032351597	PASS
SIRT2	19	38878555	38899862	0.048917043	PASS
SIRT3	11	215458	236931	-0.39835217	PASS
SIRT4	12	120302316	120313249	0.028722739	PASS
SIRT5	6	13574529	13615158	0.069043418	PASS
SIRT6	19	4174109	4182604	-0.071973357	PASS
SIRT7	17	81911939	81921323	0.051798665	PASS
SIT1	9	35649295	35650950	0.073960965	PASS
SIVA1	14	104753100	104768494	-0.155273506	suppress_segment_too_large
SIX1	14	60643415	60658259	0.053252507	PASS
SIX2	2	45005161	45009430	0.034263343	PASS
SIX3	2	44941898	44946077	0.034263343	PASS
SIX4	14	60709528	60724348	0.053252507	PASS
SIX5	19	45764785	45769226	0.002743503	PASS
SIX6	14	60508951	60512850	0.053252507	PASS
SKA1	18	50374995	50394173	-0.330515409	PASS
SKA2	17	59109951	59155269	0.051798665	PASS
SKA3	13	21153595	21176602	-0.398748891	PASS

SKAP1	17	48133440	48430275	0.051798665	PASS
SKAP2	7	26667062	26995239	-0.72421718	PASS
SKI	1	2228695	2310119	-0.358281697	PASS
SKIDA1	10	21513478	21526368	0.075711544	PASS
SKIL	3	170357678	170396835	0.02267528	PASS
SKIV2L	6	31959080	31969755	0.028532667	PASS
SKOR1	15	67819704	67834561	-0.759380635	PASS
SKOR2	18	47206322	47251603	-0.330515409	PASS
SKP1	5	134148935	134177038	-0.393084436	PASS
SKP2	5	36151989	36184319	0.073527871	PASS
SLA	8	133036724	133103054	0.493344802	suppress_segment_too_large
SLA2	20	36612318	36646216	-0.172056771	suppress_segment_too_large
SLAIN1	13	77697854	77764242	-0.384313056	PASS
SLAIN2	4	48341322	48426212	0.115781418	suppress_segment_too_large
SLAMF1	1	160608100	160647295	0.088103245	PASS
SLAMF6	1	160485030	160523262	0.088103245	PASS
SLAMF7	1	160739057	160754821	0.088103245	PASS
SLAMF8	1	159826750	159837249	0.088103245	PASS
SLAMF9	1	159951492	159954254	0.088103245	PASS
SLBP	4	1692800	1712555	-0.358623662	PASS
SLC10A1	14	69775417	69797289	0.053252507	PASS
SLC10A2	13	103043998	103066846	-0.426822582	PASS
SLC10A3	23	154487306	154490690	0.158844052	PASS
SLC10A4	4	48483343	48489196	0.115781418	suppress_segment_too_large
SLC10A5	8	81693607	81696174	0.617295349	suppress_segment_too_large
SLC10A6	4	86823468	86849263	-0.677982248	PASS
SLC10A7	4	146253975	146521964	0.142431244	suppress_segment_too_large
SLC11A1	2	218382029	218396894	0.011001208	PASS
SLC11A2	12	50979401	51028566	-0.743220499	PASS
SLC12A1	15	48178438	48304078	-0.423772929	PASS
SLC12A2	5	128083766	128189688	-0.393084436	PASS
SLC12A3	16	56865207	56915850	-0.423061015	PASS
SLC12A4	16	67943474	67969601	-0.423061015	PASS
SLC12A5	20	46021690	46060152	-0.172056771	suppress_segment_too_large
SLC12A6	15	34229996	34338060	-0.423772929	PASS
SLC12A7	5	1050376	1112035	0.073527871	PASS
SLC12A8	3	125082636	125212864	0.06434429	PASS
SLC12A9	7	100826820	100867009	-0.710463272	PASS
SLC13A1	7	123113531	123199986	-0.712149877	PASS
SLC13A2	17	28473293	28497781	0.041294512	PASS
SLC13A3	20	46557823	46684467	-0.172056771	suppress_segment_too_large
SLC13A4	7	135681237	135729258	-0.712149877	PASS
SLC13A5	17	6684713	6713567	0.06854245	PASS
SLC14A1	18	45687025	45752520	-0.330515409	PASS
SLC14A2	18	45212995	45683686	-0.330515409	PASS
SLC15A1	13	98683801	98752654	-0.384313056	PASS
SLC15A2	3	121894089	121944102	0.06434429	PASS
SLC15A3	11	60937084	60952530	0.064535884	PASS
SLC15A4	12	128793191	128823983	0.028722739	PASS
SLC15A5	12	16188485	16277685	0.49032213	suppress_segment_too_large
SLC16A1	1	112911847	112957013	0.079255572	PASS
SLC16A10	6	111087503	111231194	-0.355603029	PASS
SLC16A11	17	7041630	7043923	0.06854245	PASS
SLC16A12	10	89430299	89556641	-0.414937136	PASS

SLC16A13	17	7036075	7040121	0.06854245	PASS
SLC16A14	2	230034974	230068999	0.011001208	PASS
SLC16A2	23	74421461	74533917	0.158844052	PASS
SLC16A3	17	82228397	82261129	0.051798665	PASS
SLC16A4	1	110362848	110391082	0.079255572	PASS
SLC16A5	17	75087727	75106162	0.051798665	PASS
SLC16A6	17	68267026	68291267	0.051798665	PASS
SLC16A7	12	59596067	59789855	-0.743220499	PASS
SLC16A8	22	38078134	38084093	-0.740245994	PASS
SLC16A9	10	59650761	59736002	0.032351597	PASS
SLC17A1	6	25782897	25832059	0.069043418	PASS
SLC17A2	6	25912754	25930726	0.069043418	PASS
SLC17A3	6	25833066	25882286	0.069043418	PASS
SLC17A4	6	25754699	25781191	0.069043418	PASS
SLC17A5	6	73593379	73654155	-0.250122709	PASS
SLC17A6	11	22338097	22379503	-2.208422516	PASS
SLC17A7	19	49429401	49442360	0.002743503	PASS
SLC17A8	12	100357079	100422059	0.028722739	PASS
SLC17A9	20	62952647	62969585	-0.172056771	suppress_segment_too_large
SLC18A1	8	20144855	20183206	-0.311940419	PASS
SLC18A2	10	117241073	117279430	0.073090211	PASS
SLC18A3	10	49610301	49612720	-0.389033546	PASS
SLC18B1	6	132769370	132813339	-0.304168115	PASS
SLC19A1	21	45493572	45544411	0.209983559	PASS
SLC19A2	1	169463909	169486003	0.088103245	PASS
SLC19A3	2	227683763	227718031	0.011001208	PASS
SLC1A1	9	4490444	4587469	0.073960965	PASS
SLC1A2	11	35251205	35420063	-0.359426047	PASS
SLC1A3	5	36606355	36688334	0.073527871	PASS
SLC1A4	2	64988477	65023865	-0.46122572	PASS
SLC1A5	19	46774883	46788594	0.002743503	PASS
SLC1A6	19	14950034	15022990	-0.069222905	PASS
SLC1A7	1	53087179	53142632	-0.736943052	PASS
SLC20A1	2	112645857	112663827	0.040971718	PASS
SLC20A2	8	42416475	42541926	0.182873287	suppress_segment_too_large
SLC22A1	6	160121789	160158718	0.033894706	PASS
SLC22A10	11	63137867	63369718	0.064535884	PASS
SLC22A11	11	64555626	64572875	0.064535884	PASS
SLC22A12	11	64590641	64602353	0.064535884	PASS
SLC22A13	3	38265812	38278757	-0.727808231	PASS
SLC22A14	3	38282294	38318575	-0.727808231	PASS
SLC22A15	1	115976498	116070054	0.079255572	PASS
SLC22A16	6	110424687	110476641	-0.355603029	PASS
SLC22A17	14	23346306	23352912	0.053252507	PASS
SLC22A18	11	2899721	2925246	-0.39835217	PASS
SLC22A18	11	2887780	2903740	-0.39835217	PASS
SLC22A2	6	160171061	160277638	0.033894706	PASS
SLC22A23	6	3268962	3457022	0.069043418	PASS
SLC22A24	11	63079940	63144221	0.064535884	PASS
SLC22A25	11	63163776	63229652	0.064535884	PASS
SLC22A3	6	160348268	160452581	0.033894706	PASS
SLC22A31	16	89195761	89201664	-0.423061015	PASS
SLC22A4	5	132294443	132344206	-0.393084436	PASS
SLC22A5	5	132369752	132395614	-0.393084436	PASS

SLC22A6	11	62936385	62984983	0.064535884	PASS
SLC22A7	6	43295694	43305538	0.028532667	PASS
SLC22A8	11	62989154	63015839	0.064535884	PASS
SLC22A9	11	63369789	63410294	0.064535884	PASS
SLC23A1	5	139367196	139384553	-0.393084436	PASS
SLC23A2	20	4852356	5010293	-0.172056771	suppress_segment_too_large
SLC23A3	2	219161465	219170095	0.011001208	PASS
SLC24A1	15	65611366	65660995	-0.759380635	PASS
SLC24A2	9	19507452	19786928	0.073960965	PASS
SLC24A3	20	19212646	19722937	-0.172056771	suppress_segment_too_large
SLC24A4	14	92322581	92501483	-0.155273506	suppress_segment_too_large
SLC24A5	15	48120972	48142672	-0.423772929	PASS
SLC25A1	22	19175575	19178830	-0.740245994	PASS
SLC25A10	17	81712236	81721016	0.051798665	PASS
SLC25A11	17	4937130	4940251	0.06854245	PASS
SLC25A12	2	171784370	171999859	0.033541467	PASS
SLC25A13	7	96120220	96322147	-0.710463272	PASS
SLC25A14	23	130339888	130373361	0.158844052	PASS
SLC25A15	13	40789412	40810111	-0.398748891	PASS
SLC25A16	10	68477999	68527474	0.032351597	PASS
SLC25A17	22	40769630	40819399	-0.740245994	PASS
SLC25A18	22	17563439	17590994	-0.740245994	PASS
SLC25A19	17	75272981	75289510	0.051798665	PASS
SLC25A2	5	141302629	141304045	-0.393084436	PASS
SLC25A20	3	48856931	48898993	-0.727808231	PASS
SLC25A21	14	36678431	37172866	0.053252507	PASS
SLC25A22	11	790475	798333	-0.39835217	PASS
SLC25A23	19	6436079	6465203	-0.071973357	PASS
SLC25A24	1	108134036	108200849	0.079255572	PASS
SLC25A25	9	128068201	128109245	0.073960965	PASS
SLC25A26	3	66133610	66388116	-0.727808231	PASS
SLC25A27	6	46652915	46678193	0.239805577	suppress_segment_too_large
SLC25A28	10	99610522	99620609	-0.414937136	PASS
SLC25A29	14	100291111	100306547	-0.155273506	suppress_segment_too_large
SLC25A3	12	98593591	98606379	0.028722739	PASS
SLC25A30	13	45393316	45418455	-0.398748891	PASS
SLC25A31	4	127730378	127774299	0.142431244	suppress_segment_too_large
SLC25A32	8	103398635	103415189	0.70944438	suppress_segment_too_large
SLC25A33	1	9539482	9585179	0.364796772	PASS
SLC25A34	1	15736405	15741396	0.048749694	PASS
SLC25A35	17	8287763	8295343	0.06854245	PASS
SLC25A36	3	140941830	140980961	-0.889410434	PASS
SLC25A37	8	23528805	23575463	-0.311940419	PASS
SLC25A38	3	39383324	39397351	-0.727808231	PASS
SLC25A39	17	44319625	44324870	0.051798665	PASS
SLC25A4	4	185143241	185150382	0.275137421	PASS
SLC25A40	7	87833568	87876357	-0.221864321	PASS
SLC25A41	19	6426037	6433779	-0.071973357	PASS
SLC25A42	19	19063999	19112888	-0.069222905	PASS
SLC25A43	23	119399060	119454478	0.158844052	PASS
SLC25A44	1	156193932	156212796	0.088103245	PASS
SLC25A45	11	65375192	65383701	0.064535884	PASS
SLC25A46	5	110738136	110765161	-0.393084436	PASS
SLC25A47	14	100323337	100330378	-0.155273506	suppress_segment_too_large

SLC25A48	5	135579202	135889770	-0.393084436	PASS
SLC25A5	23	119468400	119471319	0.158844052	PASS
SLC25A51	9	37879400	37904353	0.073960965	PASS
SLC25A52	18	31759562	31760880	-0.330515409	PASS
SLC25A53	23	104099214	104157027	0.158844052	PASS
SLC25A6	23	1386152	1392724	-0.350651546	PASS
SLC26A1	4	979073	993440	-0.358623662	PASS
SLC26A10	12	57619527	57626151	-0.743220499	PASS
SLC26A11	17	80219699	80253500	0.051798665	PASS
SLC26A2	5	149960737	149993455	-0.393084436	PASS
SLC26A3	7	107765467	107803225	-0.712149877	PASS
SLC26A4	7	107660635	107717809	-0.712149877	PASS
SLC26A5	7	103352730	103446177	-0.712149877	PASS
SLC26A6	3	48625723	48635493	-0.727808231	PASS
SLC26A7	8	91209494	91398152	0.617295349	suppress_segment_too_large
SLC26A8	6	35943514	36024868	0.028532667	PASS
SLC26A9	1	205913048	205943460	-0.204996646	suppress_segment_too_large
SLC27A1	19	17468769	17506168	-0.069222905	PASS
SLC27A2	15	50182196	50236395	-0.423772929	PASS
SLC27A3	1	153774354	153780157	0.088103245	PASS
SLC27A4	9	128340646	128361470	0.073960965	PASS
SLC27A5	19	58479512	58512413	0.142581352	PASS
SLC27A6	5	128538013	129033642	-0.393084436	PASS
SLC28A1	15	84884654	84945796	-0.759380635	PASS
SLC28A2	15	45252230	45277845	-0.423772929	PASS
SLC28A3	9	84275457	84340683	0.073960965	PASS
SLC29A1	6	44219505	44234151	0.028532667	PASS
SLC29A2	11	66362521	66372214	0.064535884	PASS
SLC29A3	10	71319258	71381423	0.032351597	PASS
SLC29A4	7	5274369	5306870	-0.72421718	PASS
SLC2A1	1	42925375	42959176	-0.736943052	PASS
SLC2A10	20	46709487	46736347	-0.172056771	suppress_segment_too_large
SLC2A11	22	23856703	23886309	-0.740245994	PASS
SLC2A12	6	133988697	134052636	0.033894706	PASS
SLC2A13	12	39755021	40106089	-0.46813528	PASS
SLC2A14	12	7812512	7891148	-0.015029783	PASS
SLC2A2	3	170996348	171026750	0.02267528	PASS
SLC2A3	12	7919230	7936275	-0.015029783	PASS
SLC2A4	17	7281667	7288257	0.06854245	PASS
SLC2A4RG	20	63739861	63743505	-0.172056771	suppress_segment_too_large
SLC2A5	1	9035107	9088478	0.364796772	PASS
SLC2A6	9	133471095	133479137	0.073960965	PASS
SLC2A7	1	9003300	9026345	0.364796772	PASS
SLC2A8	9	127397138	127408424	0.073960965	PASS
SLC2A9	4	9771153	10054936	-0.358623662	PASS
SLC30A1	1	211571568	211578742	-0.204996646	suppress_segment_too_large
SLC30A10	1	219685427	219958647	-0.204996646	suppress_segment_too_large
SLC30A2	1	26037252	26046133	0.048749694	PASS
SLC30A3	2	27253684	27275817	0.034263343	PASS
SLC30A4	15	45479611	45522807	-0.423772929	PASS
SLC30A5	5	69093646	69131069	-0.393084436	PASS
SLC30A6	2	32165841	32224379	0.034263343	PASS
SLC30A7	1	100896076	100981753	0.079255572	PASS
SLC30A8	8	116950273	117176714	0.493344802	suppress_segment_too_large

SLC30A9	4	41990472	42090457	-0.753159364	PASS
SLC31A1	9	113221562	113264492	0.073960965	PASS
SLC31A2	9	113150942	113164137	0.073960965	PASS
SLC32A1	20	38724462	38729372	-0.172056771	suppress_segment_too_large
SLC33A1	3	155821024	155854456	0.02267528	PASS
SLC34A1	5	177379235	177398848	0.165341871	suppress_segment_too_large
SLC34A2	4	25648011	25678748	-2.804710927	PASS
SLC34A3	9	137230757	137236554	0.073960965	PASS
SLC35A1	6	87470623	87512336	-0.355603029	PASS
SLC35A2	23	48903180	48911958	0.158844052	PASS
SLC35A3	1	99969351	100035637	0.079255572	PASS
SLC35A4	5	140564456	140569103	-0.393084436	PASS
SLC35A5	3	112561709	112585577	0.06434429	PASS
SLC35B1	17	49700934	49709014	0.051798665	PASS
SLC35B2	6	44254096	44257890	0.028532667	PASS
SLC35B3	6	8411463	8435611	0.069043418	PASS
SLC35B4	7	134289332	134317051	-0.712149877	PASS
SLC35C1	11	45804072	45813015	0.059795455	PASS
SLC35C2	20	46345980	46364458	-0.172056771	suppress_segment_too_large
SLC35D1	1	66999332	67054099	0.052232535	PASS
SLC35D2	9	96313444	96383710	0.073960965	PASS
SLC35D3	6	136922264	136925639	0.033894706	PASS
SLC35E1	19	16549831	16572382	-0.069222905	PASS
SLC35E2A	1	1724838	1745999	-0.358281697	PASS
SLC35E2B	1	1659529	1692728	-0.358281697	PASS
SLC35E3	12	68746106	68793964	-0.743220499	PASS
SLC35E4	22	30635652	30669016	-0.740245994	PASS
SLC35F1	6	117907526	118317676	-0.355603029	PASS
SLC35F2	11	107790991	107928293	-0.431650509	PASS
SLC35F3	1	233904933	234324516	-0.204996646	suppress_segment_too_large
SLC35F4	14	57563922	57982194	0.053252507	PASS
SLC35F5	2	113705011	113756823	0.040971718	PASS
SLC35F6	2	26764284	26781231	0.034263343	PASS
SLC35G1	10	93893973	93956062	-0.414937136	PASS
SLC35G2	3	136818647	136855892	0.06434429	PASS
SLC35G3	17	35192520	35194523	0.041294512	PASS
SLC35G4	18	11609596	11610612	0.044197172	PASS
SLC35G5	8	11330888	11332208	-0.311940419	PASS
SLC35G6	17	7481332	7483496	0.06854245	PASS
SLC36A1	5	151437046	151492381	-0.393084436	PASS
SLC36A2	5	151314978	151347590	-0.393084436	PASS
SLC36A3	5	151276762	151303766	-0.393084436	PASS
SLC36A4	11	93144171	93197964	0.064535884	PASS
SLC37A1	21	42496008	42581440	0.209983559	PASS
SLC37A2	11	125063067	125090312	-0.431650509	PASS
SLC37A3	7	140293693	140404433	-0.712149877	PASS
SLC37A4	11	119024114	119030906	-0.431650509	PASS
SLC38A1	12	46183063	46270017	-0.46813528	PASS
SLC38A10	17	81245000	81295547	0.051798665	PASS
SLC38A11	2	164896186	164955525	0.319987345	PASS
SLC38A2	12	46358189	46372867	-0.46813528	PASS
SLC38A3	3	50205246	50221486	-0.727808231	PASS
SLC38A4	12	46764761	46832408	-0.46813528	PASS
SLC38A5	23	48458537	48470256	0.158844052	PASS

SLC38A6	14	60981114	61083733	0.053252507	PASS
SLC38A7	16	58665109	58685104	-0.423061015	PASS
SLC38A8	16	84009667	84042636	-0.423061015	PASS
SLC38A9	5	55625845	55773194	-0.284712224	PASS
SLC39A1	1	153959099	153968184	0.088103245	PASS
SLC39A10	2	195575977	195737702	0.011001208	PASS
SLC39A11	17	72645949	73092712	0.051798665	PASS
SLC39A12	10	17951839	18043292	0.075711544	PASS
SLC39A13	11	47407132	47416501	0.059795455	PASS
SLC39A14	8	22367249	22434129	-0.311940419	PASS
SLC39A2	14	20999255	21001871	0.053252507	PASS
SLC39A3	19	2732204	2740152	-0.071973357	PASS
SLC39A4	8	144409742	144416895	0.699132336	PASS
SLC39A5	12	56230049	56237846	-0.743220499	PASS
SLC39A6	18	36108532	36129385	-0.330515409	PASS
SLC39A7	6	33200445	33204439	0.028532667	PASS
SLC39A8	4	102251041	102431258	-0.677982248	PASS
SLC39A9	14	69398015	69462388	0.053252507	PASS
SLC3A1	2	44275458	44321494	0.034263343	PASS
SLC3A2	11	62856102	62888875	0.064535884	PASS
SLC40A1	2	189560579	189583758	0.011001208	PASS
SLC41A1	1	205789093	205813748	-0.204996646	suppress_segment_too_large
SLC41A2	12	104802553	104958744	0.028722739	PASS
SLC41A3	3	126006355	126101561	0.06434429	PASS
SLC43A1	11	57484534	57515786	0.27006553	suppress_segment_too_large
SLC43A2	17	1569267	1628886	0.06854245	PASS
SLC43A3	11	57406954	57427580	0.27006553	suppress_segment_too_large
SLC44A1	9	105244622	105439171	0.073960965	PASS
SLC44A2	19	10602457	10644559	-0.107594294	PASS
SLC44A3	1	94820342	94895246	0.079255572	PASS
SLC44A4	6	31863192	31879046	0.028532667	PASS
SLC44A5	1	75202131	75611116	0.052232535	PASS
SLC45A1	1	8317826	8344167	0.364796772	PASS
SLC45A2	5	33944616	33984730	0.073527871	PASS
SLC45A3	1	205657851	205680459	-0.204996646	suppress_segment_too_large
SLC45A4	8	141207166	141308305	0.699132336	PASS
SLC46A1	17	28394756	28407197	0.041294512	PASS
SLC46A2	9	112878920	112890913	0.073960965	PASS
SLC46A3	13	28700064	28718970	-0.398748891	PASS
SLC47A1	17	19495385	19579034	0.06854245	PASS
SLC47A2	17	19678288	19718979	0.06854245	PASS
SLC48A1	12	47753916	47782753	-0.743220499	PASS
SLC49A3	4	681829	689441	-0.358623662	PASS
SLC4A1	17	44248385	44268141	0.051798665	PASS
SLC4A10	2	161424332	161985282	0.272442947	PASS
SLC4A11	20	3227417	3239559	-0.172056771	suppress_segment_too_large
SLC4A1AI	2	27663471	27694976	0.034263343	PASS
SLC4A2	7	151057210	151076527	-0.712149877	PASS
SLC4A3	2	219627327	219641980	0.011001208	PASS
SLC4A4	4	71062667	71572087	0.115781418	suppress_segment_too_large
SLC4A5	2	74216242	74343414	-0.46122572	PASS
SLC4A7	3	27372721	27484420	0.06149513	PASS
SLC4A8	12	51391317	51515763	-0.743220499	PASS
SLC4A9	5	140360202	140375143	-0.393084436	PASS

SLC50A1	1	155135344	155138857	0.088103245	PASS
SLC51A	3	196211487	196243178	0.02267528	PASS
SLC51B	15	65045370	65053396	-0.759380635	PASS
SLC52A1	17	5032600	5052009	0.06854245	PASS
SLC52A2	8	144354135	144361286	0.699132336	PASS
SLC52A3	20	760080	776015	-0.172056771	suppress_segment_too_large
SLC5A1	22	32043032	32113029	-0.740245994	PASS
SLC5A10	17	18950345	19022595	0.06854245	PASS
SLC5A11	16	24845841	24911628	0.053595371	PASS
SLC5A12	11	26667019	26723427	-0.359426047	PASS
SLC5A2	16	31483002	31490860	0.053595371	PASS
SLC5A3	21	34073570	34106262	0.209983559	PASS
SLC5A4	22	32218476	32255341	-0.740245994	PASS
SLC5A5	19	17871973	17895174	-0.069222905	PASS
SLC5A6	2	27199587	27212958	0.034263343	PASS
SLC5A7	2	107986523	108013994	0.040971718	PASS
SLC5A8	12	101155493	101210407	0.028722739	PASS
SLC5A9	1	48222685	48248644	-0.736943052	PASS
SLC6A1	3	10992186	11039249	0.06149513	PASS
SLC6A11	3	10816200	10940733	0.06149513	PASS
SLC6A12	12	190077	214570	-0.015029783	PASS
SLC6A13	12	220621	262873	-0.015029783	PASS
SLC6A14	23	116436622	116461458	0.158844052	PASS
SLC6A15	12	84859488	84913615	0.271127429	suppress_segment_too_large
SLC6A16	19	49289638	49325225	0.002743503	PASS
SLC6A17	1	110150486	110202202	0.079255572	PASS
SLC6A18	5	1225355	1246189	0.073527871	PASS
SLC6A19	5	1201595	1225117	0.073527871	PASS
SLC6A2	16	55655604	55706192	-0.423061015	PASS
SLC6A20	3	45755450	45796535	-0.727808231	PASS
SLC6A3	5	1392790	1445430	0.073527871	PASS
SLC6A4	17	30194319	30236002	0.041294512	PASS
SLC6A5	11	20599400	20659285	-0.39835217	PASS
SLC6A6	3	14402576	14489349	0.06149513	PASS
SLC6A7	5	150189957	150222788	-0.393084436	PASS
SLC6A8	23	153688099	153696593	0.158844052	PASS
SLC6A9	1	43991500	44031467	-0.736943052	PASS
SLC7A1	13	29509410	29595688	-0.398748891	PASS
SLC7A10	19	33208664	33225850	0.044838622	PASS
SLC7A11	4	138164097	138242349	0.142431244	suppress_segment_too_large
SLC7A13	8	86214052	86321146	0.617295349	suppress_segment_too_large
SLC7A14	3	170459584	170586074	0.02267528	PASS
SLC7A2	8	17497088	17570573	-0.311940419	PASS
SLC7A3	23	70925582	70931125	0.158844052	PASS
SLC7A4	22	21028718	21032840	-0.740245994	PASS
SLC7A5	16	87830023	87869488	-0.423061015	PASS
SLC7A6	16	68264516	68301823	-0.423061015	PASS
SLC7A6O	16	68284503	68310946	-0.423061015	PASS
SLC7A7	14	22773222	22829820	0.053252507	PASS
SLC7A8	14	23125295	23183674	0.053252507	PASS
SLC7A9	19	32830509	32869766	0.044838622	PASS
SLC8A1	2	40097270	40611053	0.034263343	PASS
SLC8A2	19	47428017	47472168	0.002743503	PASS
SLC8A3	14	70044217	70189070	0.053252507	PASS

SLC8B1	12	113298759	113359493	0.028722739	PASS
SLC9A1	1	27098815	27166981	0.048749694	PASS
SLC9A2	2	102619707	102711318	0.064122364	PASS
SLC9A3	5	470458	524332	0.073527871	PASS
SLC9A3R1	17	74748652	74769353	0.051798665	PASS
SLC9A3R2	16	2025356	2039026	0.053595371	PASS
SLC9A4	2	102473303	102533972	0.064122364	PASS
SLC9A5	16	67237683	67272190	-0.423061015	PASS
SLC9A6	23	135973841	136047269	0.158844052	PASS
SLC9A7	23	46599252	46759172	0.158844052	PASS
SLC9A8	20	49812713	49892242	-0.172056771	suppress_segment_too_large
SLC9A9	3	143265222	143848531	0.02267528	PASS
SLC9B1	4	102885048	103019739	-0.677982248	PASS
SLC9B2	4	103019868	103085829	-0.677982248	PASS
SLC9C1	3	112140887	112294258	0.06434429	PASS
SLC9C2	1	173500464	173603094	0.088103245	PASS
SLCO1A2	12	21264600	21419594	0.49032213	suppress_segment_too_large
SLCO1B1	12	21131202	21239246	0.49032213	suppress_segment_too_large
SLCO1B3	12	20810702	20916911	0.49032213	suppress_segment_too_large
SLCO1B7	12	20962768	21092745	0.49032213	suppress_segment_too_large
SLCO1C1	12	20695355	20753386	0.49032213	suppress_segment_too_large
SLCO2A1	3	133928145	134052184	0.06434429	PASS
SLCO2B1	11	75100563	75206549	0.064535884	PASS
SLCO3A1	15	91853695	92172435	-0.759380635	PASS
SLCO4A1	20	62642445	62685785	-0.172056771	suppress_segment_too_large
SLCO4C1	5	102233986	102296549	-0.393084436	PASS
SLCO5A1	8	69667047	69835064	0.182873287	suppress_segment_too_large
SLCO6A1	5	102371782	102499016	-0.393084436	PASS
SLF1	5	94618347	94739436	-0.393084436	PASS
SLF2	10	100912569	100965136	-0.414937136	PASS
SLFN11	17	35350305	35373701	0.041294512	PASS
SLFN12	17	35411060	35433283	0.041294512	PASS
SLFN12L	17	35464249	35537861	0.041294512	PASS
SLFN13	17	35435096	35448837	0.041294512	PASS
SLFN14	17	35548125	35558098	0.041294512	PASS
SLFN5	17	35243036	35273655	0.041294512	PASS
SLFNL1	1	41015597	41023237	0.048749694	PASS
SLIRP	14	77708071	77761104	-0.155273506	suppress_segment_too_large
SLIT1	10	96998038	97185920	-0.414937136	PASS
SLIT2	4	20253260	20620561	-0.358623662	PASS
SLIT3	5	168661733	169301129	0.165341871	suppress_segment_too_large
SLITRK1	13	83877205	83882393	-0.384313056	PASS
SLITRK2	23	145817832	145829856	0.158844052	PASS
SLITRK3	3	165186720	165197109	0.02267528	PASS
SLITRK4	23	143622790	143635777	0.158844052	PASS
SLITRK5	13	87672615	87696272	-0.384313056	PASS
SLITRK6	13	85792787	85806683	-0.384313056	PASS
SLK	10	103967201	104029233	-0.414937136	PASS
SLMAP	3	57755450	57929168	-0.727808231	PASS
SLN	11	107707378	107719693	-0.431650509	PASS
SLPI	20	45252239	45254564	-0.172056771	suppress_segment_too_large
SLTM	15	58879045	58933653	-0.759380635	PASS
SLU7	5	160401641	160421711	0.165341871	suppress_segment_too_large
SLURP1	8	142740944	142742411	0.699132336	PASS

SLURP2	8	142764338	142769844	0.699132336	PASS
SLX1A	16	30193887	30197561	0.053595371	PASS
SLX4	16	3581181	3611598	0.053595371	PASS
SLX4IP	20	10435303	10636829	-0.172056771	suppress_segment_too_large
SMAD1	4	145481194	145558079	0.142431244	suppress_segment_too_large
SMAD2	18	47808957	47931146	-0.330515409	PASS
SMAD3	15	67063763	67195195	-0.759380635	PASS
SMAD4	18	51028394	51085045	-0.330515409	PASS
SMAD5	5	136132845	136188747	-0.393084436	PASS
SMAD6	15	66702228	66782848	-0.759380635	PASS
SMAD7	18	48919853	48952052	-0.330515409	PASS
SMAD9	13	36844831	36920765	-0.398748891	PASS
SMAGP	12	51244558	51270890	-0.743220499	PASS
SMAP1	6	70667776	70862015	-0.250122709	PASS
SMAP2	1	40344850	40423326	0.048749694	PASS
SMARCA1	23	129446501	129523500	0.158844052	PASS
SMARCA2	9	1980290	2193624	0.073960965	PASS
SMARCA4	19	10960825	11079426	-0.107594294	PASS
SMARCA5	4	143513463	143557486	0.142431244	suppress_segment_too_large
SMARCAD	4	94207611	94291292	-0.677982248	PASS
SMARCAL	2	216412414	216483053	0.011001208	PASS
SMARCB1	22	23786931	23838008	-0.740245994	PASS
SMARCC1	3	47585272	47782106	-0.727808231	PASS
SMARCC2	12	56162983	56189567	-0.743220499	PASS
SMARCD1	12	50084972	50100712	-0.743220499	PASS
SMARCD2	17	63832081	63843065	0.051798665	PASS
SMARCD3	7	151238764	151277896	-0.712149877	PASS
SMARCE1	17	40624962	40648864	0.041294512	PASS
SMC1A	23	53374149	53422728	0.158844052	PASS
SMC1B	22	45344063	45413619	-0.953096644	PASS
SMC2	9	104094260	104141417	0.073960965	PASS
SMC3	10	110567691	110604636	0.073090211	PASS
SMC4	3	160399274	160434962	0.02267528	PASS
SMC5	9	70258962	70354888	0.073960965	PASS
SMC6	2	17663812	17800242	0.034263343	PASS
SMCHD1	18	2655738	2805017	0.044197172	PASS
SMCO1	3	196506877	196515366	0.02267528	PASS
SMCO2	12	27466810	27502185	0.49032213	suppress_segment_too_large
SMCO3	12	14804650	14814182	0.49032213	suppress_segment_too_large
SMCO4	11	93478472	93543508	0.064535884	PASS
SMCP	1	152878317	152885047	0.088103245	PASS
SMCR8	17	18315310	18328055	0.06854245	PASS
SMDT1	22	42079691	42084284	-0.740245994	PASS
SMG1	16	18804853	18926454	0.053595371	PASS
SMG5	1	156249224	156282825	0.088103245	PASS
SMG6	17	2059839	2303771	0.06854245	PASS
SMG7	1	183472216	183598246	0.088103245	PASS
SMG8	17	59209400	59215247	0.051798665	PASS
SMG9	19	43727992	43754990	0.048917043	PASS
SMIM1	1	3772761	3775982	-0.358281697	PASS
SMIM10	23	134990938	134992473	0.158844052	PASS
SMIM10L1	12	11171222	11176016	0.49032213	suppress_segment_too_large
SMIM10L2	23	135421943	135428074	0.158844052	PASS
SMIM10L2	23	135094987	135098634	0.158844052	PASS

SMIM12	1	34712737	34859816	0.048749694	PASS
SMIM13	6	11094033	11138733	0.069043418	PASS
SMIM14	4	39546330	39639090	-0.753159364	PASS
SMIM15	5	61157709	61162474	0.07724032	PASS
SMIM17	19	56643145	56655766	0.142581352	PASS
SMIM18	8	30638600	30646064	-0.311940419	PASS
SMIM19	8	42541155	42555193	0.182873287	suppress_segment_too_large
SMIM2	13	44143543	44161257	-0.398748891	PASS
SMIM20	4	25861830	25929874	-2.804710927	PASS
SMIM21	18	75409476	75427703	-0.330515409	PASS
SMIM22	16	4788397	4796491	0.053595371	PASS
SMIM23	5	171782432	171796126	0.165341871	suppress_segment_too_large
SMIM24	19	3473986	3480542	-0.071973357	PASS
SMIM26	20	18567347	18569563	-0.172056771	suppress_segment_too_large
SMIM27	9	32551144	32568621	0.073960965	PASS
SMIM29	6	34246380	34249470	0.028532667	PASS
SMIM3	5	150777946	150796734	-0.393084436	PASS
SMIM31	4	164754064	164803795	0.142431244	suppress_segment_too_large
SMIM35	11	118003634	118088299	-0.431650509	PASS
SMIM36	17	55448433	55511444	0.051798665	PASS
SMIM4	3	52534013	52579237	-0.727808231	PASS
SMIM5	17	75633434	75641404	0.051798665	PASS
SMIM6	17	75646243	75647977	0.051798665	PASS
SMIM7	19	16630751	16660442	-0.069222905	PASS
SMIM8	6	87322583	87399749	-0.355603029	PASS
SMIM9	23	154823348	154834662	0.158844052	PASS
SMKR1	7	129502479	129512932	-0.712149877	PASS
SMLR1	6	130827406	130837135	-0.304168115	PASS
SMN1	5	70925030	70953942	-0.393084436	PASS
SMN2	5	70049612	70078522	-0.393084436	PASS
SMNDC1	10	110290730	110304951	0.073090211	PASS
SMO	7	129188872	129213545	-0.712149877	PASS
SMOC1	14	69854131	70032366	0.053252507	PASS
SMOC2	6	168441151	168673445	0.033894706	PASS
SMOX	20	4120980	4187747	-0.172056771	suppress_segment_too_large
SMPD1	11	6390431	6394998	-0.39835217	PASS
SMPD2	6	109440763	109443919	-0.355603029	PASS
SMPD3	16	68358325	68448688	-0.423061015	PASS
SMPD4	2	130151392	130182750	-0.359440172	PASS
SMPDL3B	1	27934993	27959157	0.048749694	PASS
SMPX	23	21705972	21758163	0.158844052	PASS
SMR3A	4	70360761	70367158	0.115781418	suppress_segment_too_large
SMR3B	4	70370093	70390244	0.115781418	suppress_segment_too_large
SMS	23	21940573	21994835	0.158844052	PASS
SMTN	22	31064105	31104757	-0.740245994	PASS
SMTNL1	11	57542641	57550274	0.27006553	suppress_segment_too_large
SMTNL2	17	4583999	4608319	0.06854245	PASS
SMU1	9	33041764	33076659	0.073960965	PASS
SMUG1	12	54121277	54189008	-0.743220499	PASS
SMURF1	7	99027438	99144100	-0.710463272	PASS
SMURF2	17	64542295	64662068	0.051798665	PASS
SMYD1	2	88067780	88113387	0.064122364	PASS
SMYD2	1	214281102	214337131	-0.204996646	suppress_segment_too_large
SMYD3	1	245749342	246507312	-0.145670469	suppress_likely_unfocal_large_gain

SMYD4	17	1779485	1830634	0.06854245	PASS
SMYD5	2	73214222	73227237	-0.46122572	PASS
SNAI1	20	49982999	49988886	-0.172056771	suppress_segment_too_large
SNAI2	8	48917604	48921740	0.182873287	suppress_segment_too_large
SNAI3	16	88677682	88686493	-0.423061015	PASS
SNAP23	15	42491233	42545356	-0.423772929	PASS
SNAP25	20	10218830	10307418	-0.172056771	suppress_segment_too_large
SNAP29	22	20858983	20891218	-0.740245994	PASS
SNAP47	1	227728539	227781231	-0.204996646	suppress_segment_too_large
SNAP91	6	83552880	83709691	-0.355603029	PASS
SNAPC1	14	61762357	61796428	0.053252507	PASS
SNAPC2	19	7920316	7923250	-0.071973357	PASS
SNAPC3	9	15422704	15465953	0.073960965	PASS
SNAPC4	9	136375577	136400168	0.073960965	PASS
SNAPC5	15	66490135	66497813	-0.759380635	PASS
SNAPIN	1	153658654	153661830	0.088103245	PASS
SNCA	4	89724099	89838315	-0.677982248	PASS
SNCAIP	5	122311354	122464219	-0.393084436	PASS
SNCB	5	176620084	176630556	0.165341871	suppress_segment_too_large
SNCG	10	86958618	86963260	-0.461254852	PASS
SND1	7	127652180	128092609	-0.712149877	PASS
SNED1	2	240998838	241095568	0.011001208	PASS
SNF8	17	48929316	48945117	0.051798665	PASS
SNHG28	1	159834474	159873053	0.088103245	PASS
SNIP1	1	37534449	37554344	0.048749694	PASS
SNN	16	11668414	11679159	0.053595371	PASS
SNORC	2	232857270	232878708	0.011001208	PASS
SNPH	20	1266280	1309328	-0.172056771	suppress_segment_too_large
SNRK	3	43286512	43424764	-0.727808231	PASS
SNRNP20(	2	96274336	96305515	0.064122364	PASS
SNRNP25	16	53010	57669	0.053595371	PASS
SNRNP27	2	69893560	69905575	-0.46122572	PASS
SNRNP35	12	123457641	123473154	0.028722739	PASS
SNRNP40	1	31259568	31296782	0.048749694	PASS
SNRNP48	6	7590199	7611967	0.069043418	PASS
SNRNP70	19	49085419	49108605	0.002743503	PASS
SNRPA	19	40750637	40765389	0.048917043	PASS
SNRPA1	15	101281510	101295282	-0.759380635	PASS
SNRPB	20	2461634	2470853	-0.172056771	suppress_segment_too_large
SNRPB2	20	16729961	16742563	-0.172056771	suppress_segment_too_large
SNRPC	6	34757406	34773794	0.028532667	PASS
SNRPD1	18	21612267	21633524	-0.330515409	PASS
SNRPD2	19	45687454	45692569	0.002743503	PASS
SNRPD3	22	24555503	24609980	-0.740245994	PASS
SNRPE	1	203861603	203870550	-0.204996646	suppress_segment_too_large
SNRPF	12	95858928	95903828	0.028722739	PASS
SNRPG	2	70281362	70293771	-0.46122572	PASS
SNRPN	15	24823637	24978723	-0.423772929	PASS
SNTA1	20	33407955	33443892	-0.172056771	suppress_segment_too_large
SNTB1	8	120535745	120813273	0.493344802	suppress_segment_too_large
SNTB2	16	69187129	69309052	-0.423061015	PASS
SNTG1	8	49909789	50796691	0.182873287	suppress_segment_too_large
SNTG2	2	950868	1367613	0.034263343	PASS
SNTN	3	63652668	63679020	-0.727808231	PASS

SNU13	22	41673930	41690504	-0.740245994	PASS
SNUPN	15	75598083	75626469	-0.759380635	PASS
SNURF	15	24954986	24977850	-0.423772929	PASS
SNW1	14	77717599	77761207	-0.155273506	suppress_segment_too_large
SNX1	15	64094123	64146090	-0.759380635	PASS
SNX10	7	26291895	26374329	-0.72421718	PASS
SNX11	17	48103357	48123074	0.051798665	PASS
SNX12	23	71056332	71073426	0.158844052	PASS
SNX13	7	17790761	17940501	-0.72421718	PASS
SNX14	6	85505496	85594156	-0.355603029	PASS
SNX15	11	65027408	65040572	0.064535884	PASS
SNX16	8	81799581	81842866	0.617295349	suppress_segment_too_large
SNX17	2	27370496	27377533	0.034263343	PASS
SNX18	5	54517759	54546585	-0.284712224	PASS
SNX19	11	130875436	130916509	-0.431650509	PASS
SNX2	5	122774996	122830108	-0.393084436	PASS
SNX20	16	50666300	50681353	0.411512417	PASS
SNX21	20	45833810	45843275	-0.172056771	suppress_segment_too_large
SNX22	15	64151715	64157481	-0.759380635	PASS
SNX24	5	122843439	123029354	-0.393084436	PASS
SNX25	4	185204237	185370185	0.275137421	PASS
SNX27	1	151612006	151699091	0.079255572	PASS
SNX29	16	11976737	12574289	0.053595371	PASS
SNX3	6	108211222	108261260	-0.355603029	PASS
SNX30	9	112750838	112881671	0.073960965	PASS
SNX31	8	100572882	100663415	0.355469066	suppress_segment_too_large
SNX32	11	65833641	65856896	0.064535884	PASS
SNX33	15	75647906	75662301	-0.759380635	PASS
SNX4	3	125446644	125520197	0.06434429	PASS
SNX5	20	17941597	17968980	-0.172056771	suppress_segment_too_large
SNX6	14	34561094	34630183	0.053252507	PASS
SNX7	1	98661701	98760500	0.079255572	PASS
SNX8	7	2251770	2354318	-0.72421718	PASS
SNX9	6	157700387	157945077	0.033894706	PASS
SOAT1	1	179293714	179358680	0.088103245	PASS
SOAT2	12	53103518	53124538	-0.743220499	PASS
SOBP	6	107489958	107660167	-0.355603029	PASS
SOCS1	16	11254405	11256200	0.053595371	PASS
SOCS2	12	93569814	93583487	0.028722739	PASS
SOCS3	17	78356778	78360077	0.051798665	PASS
SOCS4	14	55027230	55049488	0.053252507	PASS
SOCS5	2	46698952	46780245	0.034263343	PASS
SOCS6	18	70288901	70330200	-0.330515409	PASS
SOCS7	17	38352228	38405593	0.041294512	PASS
SOD1	21	31659622	31668931	0.209983559	PASS
SOD2	6	159669057	159762529	0.033894706	PASS
SOD3	4	24789912	24800842	-0.358623662	PASS
SOGA1	20	36777442	36863686	-0.172056771	suppress_segment_too_large
SOGA3	6	127472794	127519191	-0.304168115	PASS
SOHLH1	9	135693407	135699528	0.073960965	PASS
SOHLH2	13	36168208	36214615	-0.398748891	PASS
SON	21	33542618	33577481	0.209983559	PASS
SORBS1	10	95311771	95561414	-0.414937136	PASS
SORBS2	4	185585444	185956652	0.275137421	PASS

SORBS3	8	22544986	22575788	-0.311940419	PASS
SORCS1	10	106573663	107164534	-0.414937136	PASS
SORCS2	4	7192538	7742836	-0.358623662	PASS
SORCS3	10	104641101	105265235	-0.414937136	PASS
SORD	15	45023104	45077185	-0.423772929	PASS
SORL1	11	121452203	121633693	-0.431650509	PASS
SORT1	1	109309568	109397951	0.079255572	PASS
SOS1	2	38981396	39124345	0.034263343	PASS
SOS2	14	50117120	50231558	0.053252507	PASS
SOST	17	43753731	43758788	0.051798665	PASS
SOSTDC1	7	16461481	16530580	-0.72421718	PASS
SOWAHA	5	132813587	132816797	-0.393084436	PASS
SOWAHB	4	76894928	76898147	-0.677982248	PASS
SOWAHC	2	109614334	109618990	0.040971718	PASS
SOWAHD	23	119758613	119760164	0.158844052	PASS
SOX1	13	112067647	112070488	-0.426822582	PASS
SOX10	22	37970686	37987422	-0.740245994	PASS
SOX11	2	5692667	5701385	0.034263343	PASS
SOX12	20	325595	330224	-0.172056771	suppress_segment_too_large
SOX13	1	204073115	204127743	-0.204996646	suppress_segment_too_large
SOX14	3	137764284	137766338	0.06434429	PASS
SOX15	17	7588178	7590170	0.06854245	PASS
SOX17	8	54457935	54460888	0.182873287	suppress_segment_too_large
SOX18	20	64047582	64049641	-0.172056771	suppress_segment_too_large
SOX2	3	181711924	181714436	0.02267528	PASS
SOX21	13	94709622	94712399	-0.384313056	PASS
SOX3	23	140502985	140505116	0.158844052	PASS
SOX30	5	157625679	157671480	0.165341871	suppress_segment_too_large
SOX4	6	21592768	21598619	0.069043418	PASS
SOX5	12	23529500	24562544	0.49032213	suppress_segment_too_large
SOX6	11	15966449	16739591	-0.39835217	PASS
SOX7	8	10723768	10730512	-0.311940419	PASS
SOX8	16	981808	986979	0.053595371	PASS
SOX9	17	72121020	72126420	0.051798665	PASS
SP1	12	53380176	53416446	-0.743220499	PASS
SP100	2	230415942	230544090	0.011001208	PASS
SP110	2	230167293	230225729	0.011001208	PASS
SP140	2	230203110	230313215	0.011001208	PASS
SP140L	2	230327184	230403732	0.011001208	PASS
SP2	17	47896150	47928957	0.051798665	PASS
SP3	2	173906459	173965702	0.033541467	PASS
SP4	7	21428034	21514822	-0.72421718	PASS
SP5	2	170715351	170718078	0.033541467	PASS
SP6	17	47844908	47855874	0.051798665	PASS
SP7	12	53326575	53345315	-0.743220499	PASS
SP8	7	20782283	20786886	-0.72421718	PASS
SP9	2	174334946	174338492	0.033541467	PASS
SPA17	11	124673798	124697518	-0.431650509	PASS
SPAAR	9	35909483	35937153	0.073960965	PASS
SPACA1	6	88047789	88066832	-0.355603029	PASS
SPACA3	17	32970376	32997877	0.041294512	PASS
SPACA4	19	48606743	48607714	0.002743503	PASS
SPACA5B	23	48130657	48132613	0.158844052	PASS
SPACA6	19	51689128	51712387	0.002743503	PASS

SPACA7	13	112376319	112434689	-0.426822582	PASS
SPACA9	9	132878027	132890201	0.073960965	PASS
SPAG1	8	100157906	100259278	0.355469066	suppress_segment_too_large
SPAG11A	8	7847876	7868867	-0.311940419	PASS
SPAG11B	8	7442684	7463674	-0.311940419	PASS
SPAG16	2	213284379	214410501	0.011001208	PASS
SPAG17	1	117953861	118185223	0.079255572	PASS
SPAG4	20	35615892	35621049	-0.172056771	suppress_segment_too_large
SPAG5	17	28577565	28599279	0.041294512	PASS
SPAG6	10	22345445	22454224	0.075711544	PASS
SPAG7	17	4959226	4967872	0.06854245	PASS
SPAG8	9	35808045	35812272	0.073960965	PASS
SPAG9	17	50962174	51120865	0.051798665	PASS
SPAM1	7	123925237	123971414	-0.712149877	PASS
SPANXB1	23	141002591	141003706	0.158844052	PASS
SPANXC	23	141241463	141242496	0.158844052	PASS
SPANXD	23	141697411	141698739	0.158844052	PASS
SPANXN1	23	145246828	145256112	0.158844052	PASS
SPANXN2	23	143711955	143721423	0.158844052	PASS
SPANXN3	23	143508735	143517475	0.158844052	PASS
SPANXN4	23	143025918	143034702	0.158844052	PASS
SPANXN5	23	52796144	52798101	0.158844052	PASS
SPARC	5	151661096	151687165	-0.393084436	PASS
SPARCL1	4	87473335	87531061	-0.677982248	PASS
SPART	13	36301638	36370180	-0.398748891	PASS
SPAST	2	32063547	32157637	0.034263343	PASS
SPATA1	1	84506300	84566194	0.587598296	PASS
SPATA12	3	57060441	57075432	-0.727808231	PASS
SPATA13	13	23979805	24307074	-0.398748891	PASS
SPATA16	3	172889358	173141268	0.02267528	PASS
SPATA17	1	217631324	217871696	-0.204996646	suppress_segment_too_large
SPATA18	4	52051331	52097292	0.115781418	suppress_segment_too_large
SPATA19	11	133840631	133845538	0.105032849	PASS
SPATA2	20	49903391	49915508	-0.172056771	suppress_segment_too_large
SPATA20	17	50543058	50555852	0.051798665	PASS
SPATA21	1	16387117	16437424	0.048749694	PASS
SPATA22	17	3440019	3513852	0.06854245	PASS
SPATA24	5	139396563	139404088	-0.393084436	PASS
SPATA25	20	45886489	45887635	-0.172056771	suppress_segment_too_large
SPATA2L	16	89696343	89701705	-0.423061015	PASS
SPATA3	2	230990324	231025055	0.011001208	PASS
SPATA31A	9	39355669	39361959	0.073960965	PASS
SPATA31A	9	66986304	66992583	0.073960965	PASS
SPATA31A	9	42183659	42189882	0.073960965	PASS
SPATA31A	9	61190003	61196280	0.073960965	PASS
SPATA31I	9	81988772	81995256	0.073960965	PASS
SPATA31I	9	81943586	81950038	0.073960965	PASS
SPATA31I	9	81928514	81934948	0.073960965	PASS
SPATA31I	9	87882826	87888899	0.073960965	PASS
SPATA32	17	45254393	45262112	0.051798665	PASS
SPATA33	16	89657802	89671272	-0.423061015	PASS
SPATA4	4	176184638	176195671	0.142431244	suppress_segment_too_large
SPATA45	1	212830141	212847649	-0.204996646	suppress_segment_too_large
SPATA46	1	162373203	162376870	0.088103245	PASS

SPATA48	7	50096036	50159830	-0.701511252	PASS
SPATA5	4	122923074	123319450	0.142431244	suppress_segment_too_large
SPATA5L	15	45402331	45421419	-0.423772929	PASS
SPATA6	1	48295372	48472208	-0.736943052	PASS
SPATA6L	9	4553386	4666674	0.073960965	PASS
SPATA7	14	88384924	88470350	-0.155273506	suppress_segment_too_large
SPATA8	15	96783389	96785615	-0.759380635	PASS
SPATA9	5	95652181	95698711	-0.393084436	PASS
SPATC1	8	144012414	144047085	0.699132336	PASS
SPATC1L	21	46161148	46184476	0.209983559	PASS
SPATS1	6	44342660	44377167	0.028532667	PASS
SPATS2	12	49366584	49527424	-0.743220499	PASS
SPATS2L	2	200305881	200482263	0.011001208	PASS
SPC24	19	11131520	11155808	-0.107594294	PASS
SPC25	2	168834132	168913371	0.033541467	PASS
SPCS1	3	52704955	52711146	-0.727808231	PASS
SPCS2	11	74949247	74979031	0.064535884	PASS
SPCS3	4	176319964	176332245	0.142431244	suppress_segment_too_large
SPDEF	6	34537802	34556333	0.028532667	PASS
SPDL1	5	169583634	169604778	0.165341871	suppress_segment_too_large
SPDYA	2	28782517	28850611	0.034263343	PASS
SPDYC	11	65170154	65173244	0.064535884	PASS
SPDYE1	7	44000889	44010122	-0.72421718	PASS
SPDYE16	7	76531319	76541459	-0.701511252	PASS
SPDYE2	7	102551232	102562308	-0.712149877	PASS
SPDYE3	7	100307702	100322196	-0.710463272	PASS
SPDYE4	17	8753106	8758559	0.06854245	PASS
SPDYE5	7	75493625	75504304	-0.701511252	PASS
SPDYE6	7	102347206	102356444	-0.712149877	PASS
SPECC1	17	20009344	20319026	0.06854245	PASS
SPECC1L	22	24270817	24417740	-0.740245994	PASS
SPECC1L-	22	24270898	24442356	-0.740245994	PASS
SPEF1	20	3777504	3781448	-0.172056771	suppress_segment_too_large
SPEF2	5	35617844	35814611	0.073527871	PASS
SPEG	2	219434846	219498287	0.011001208	PASS
SPEM1	17	7420360	7421632	0.06854245	PASS
SPEM2	17	7425615	7427568	0.06854245	PASS
SPEN	1	15847864	15940460	0.048749694	PASS
SPERT	13	45702311	45714559	-0.398748891	PASS
SPESP1	15	68818221	68946811	-0.759380635	PASS
SPG11	15	44562696	44663678	-0.423772929	PASS
SPG21	15	64963021	64990310	-0.759380635	PASS
SPG7	16	89490719	89557768	-0.423061015	PASS
SPHK1	17	76376584	76387860	0.051798665	PASS
SPHK2	19	48619291	48630717	0.002743503	PASS
SPHKAP	2	227979950	228181645	0.011001208	PASS
SPI1	11	47354860	47378576	0.059795455	PASS
SPIB	19	50418938	50431313	0.002743503	PASS
SPIC	12	101475421	101486997	0.028722739	PASS
SPICE1	3	113442718	113515187	0.06434429	PASS
SPIDR	8	47260575	47736306	0.182873287	suppress_segment_too_large
SPIN1	9	88388419	88478694	0.073960965	PASS
SPIN2A	23	57134530	57137625	0.158844052	PASS
SPIN2B	23	57118551	57121546	0.158844052	PASS

SPIN3	23	56818298	56995827	0.158844052	PASS
SPIN4	23	63347228	63351344	0.158844052	PASS
SPINDOC	11	63813388	63827718	0.064535884	PASS
SPINK1	5	147824568	147831786	-0.393084436	PASS
SPINK13	5	148268180	148286254	-0.393084436	PASS
SPINK14	5	148169733	148175398	-0.393084436	PASS
SPINK2	4	56809860	56821742	0.115781418	suppress_segment_too_large
SPINK4	9	33218365	33248567	0.073960965	PASS
SPINK5	5	148025683	148137289	-0.393084436	PASS
SPINK6	5	148202794	148215137	-0.393084436	PASS
SPINK7	5	148312419	148315922	-0.393084436	PASS
SPINK8	3	48306842	48328341	-0.727808231	PASS
SPINK9	5	148321203	148339849	-0.393084436	PASS
SPINT1	15	40844018	40858207	-0.423772929	PASS
SPINT2	19	38244035	38292614	0.048917043	PASS
SPINT3	20	45512461	45515624	-0.172056771	suppress_segment_too_large
SPINT4	20	45722351	45725830	-0.172056771	suppress_segment_too_large
SPIRE1	18	12446512	12658134	0.044197172	PASS
SPIRE2	16	89818179	89871319	-0.423061015	PASS
SPN	16	29662979	29670876	0.053595371	PASS
SPNS1	16	28974221	28984548	0.053595371	PASS
SPNS2	17	4498838	4539035	0.06854245	PASS
SPNS3	17	4433688	4488208	0.06854245	PASS
SPO11	20	57329759	57343994	-0.172056771	suppress_segment_too_large
SPOCD1	1	31790422	31816051	0.048749694	PASS
SPOCK1	5	136975298	137598379	-0.393084436	PASS
SPOCK2	10	72059035	72089032	0.032351597	PASS
SPOCK3	4	166733384	167234796	0.142431244	suppress_segment_too_large
SPON1	11	13962689	14267884	-0.39835217	PASS
SPON2	4	1166932	1208962	-0.358623662	PASS
SPOP	17	49598884	49678234	0.051798665	PASS
SPOPL	2	138501801	138573547	-0.359440172	PASS
SPOUT1	9	128819651	128829821	0.073960965	PASS
SPP1	4	87975650	87983426	-0.677982248	PASS
SPP2	2	234050679	234077134	0.011001208	PASS
SPPL2A	15	50702266	50765808	-0.423772929	PASS
SPPL2B	19	2328615	2354806	-0.071973357	PASS
SPPL2C	17	45844835	45847072	0.051798665	PASS
SPPL3	12	120762510	120904371	0.028722739	PASS
SPR	2	72887360	72892158	-0.46122572	PASS
SPRED1	15	38252326	38357249	-0.423772929	PASS
SPRED2	2	65310851	65432637	-0.46122572	PASS
SPRED3	19	38388421	38399587	0.048917043	PASS
SPRN	10	133420666	133424572	0.073090211	PASS
SPRR1A	1	152985231	152985500	0.088103245	PASS
SPRR1B	1	153031202	153032900	0.088103245	PASS
SPRR2A	1	153056113	153057537	0.088103245	PASS
SPRR2B	1	153070224	153070840	0.088103245	PASS
SPRR2D	1	153039725	153041931	0.088103245	PASS
SPRR2E	1	153093135	153106184	0.088103245	PASS
SPRR2F	1	153112114	153113515	0.088103245	PASS
SPRR2G	1	153149582	153150869	0.088103245	PASS
SPRR3	1	153001747	153003856	0.088103245	PASS
SPRR4	1	152970666	152972574	0.088103245	PASS

SPRTN	1	231337104	231355023	-0.204996646	suppress_segment_too_large
SPRY1	4	123396795	123403760	0.142431244	suppress_segment_too_large
SPRY2	13	80335976	80340951	-0.384313056	PASS
SPRY3	23	155767812	155782459	0.158844052	PASS
SPRY4	5	142310427	142326455	-0.393084436	PASS
SPRYD3	12	53064316	53079420	-0.743220499	PASS
SPRYD4	12	56468567	56479707	-0.743220499	PASS
SPRYD7	13	49912706	49936490	-0.384313056	PASS
SPSB1	1	9292880	9369532	0.364796772	PASS
SPSB2	12	6870935	6889358	-0.015029783	PASS
SPSB3	16	1776712	1793700	0.053595371	PASS
SPSB4	3	141051402	141148611	-0.889410434	PASS
SPTA1	1	158610706	158686715	0.088103245	PASS
SPTAN1	9	128552558	128633662	0.073960965	PASS
SPTB	14	64746283	64879907	0.053252507	PASS
SPTBN1	2	54456285	54671445	0.034263343	PASS
SPTBN2	11	66685248	66729226	0.064535884	PASS
SPTBN4	19	40466241	40576464	0.048917043	PASS
SPTBN5	15	41848144	41894077	-0.423772929	PASS
SPTLC1	9	92000087	92115384	0.073960965	PASS
SPTLC2	14	77505997	77616773	-0.155273506	suppress_segment_too_large
SPTLC3	20	13008979	13169103	-0.172056771	suppress_segment_too_large
SPTSSA	14	34432789	34462356	0.053252507	PASS
SPTSSB	3	161344792	161372880	0.02267528	PASS
SPTY2D1	11	18606401	18634791	-0.39835217	PASS
SPTY2D1(	11	18588781	18610255	-0.39835217	PASS
SPX	12	21526307	21541249	0.49032213	suppress_segment_too_large
SPZ1	5	80319625	80321842	-0.393084436	PASS
SQLE	8	124998497	125022283	0.493344802	suppress_segment_too_large
SQOR	15	45631148	45691294	-0.423772929	PASS
SQSTM1	5	179806398	179838078	0.165341871	suppress_segment_too_large
SRA1	5	140537340	140558252	-0.393084436	PASS
SRARP	1	16004236	16008807	0.048749694	PASS
SRBD1	2	45388680	45612165	0.034263343	PASS
SRC	20	37344685	37406050	-0.172056771	suppress_segment_too_large
SRCAP	16	30698209	30741409	0.053595371	PASS
SRCIN1	17	38530016	38605930	0.041294512	PASS
SRD5A1	5	6633343	6674386	0.073527871	PASS
SRD5A2	2	31522480	31581067	0.034263343	PASS
SRD5A3	4	55346109	55373096	0.115781418	suppress_segment_too_large
SREBF1	17	17810399	17837002	0.06854245	PASS
SREBF2	22	41833079	41907308	-0.740245994	PASS
SREK1	5	66139971	66183615	-0.393084436	PASS
SREK1IP1	5	64718144	64768685	-0.393084436	PASS
SRF	6	43171299	43181507	0.028532667	PASS
SRFBP1	5	121961961	122075570	-0.393084436	PASS
SRGAP1	12	63844293	64162221	-0.743220499	PASS
SRGAP2	1	206203345	206464443	-0.204996646	suppress_segment_too_large
SRGAP2B	1	144887265	145095528	0.079255572	PASS
SRGAP2C	1	121184810	121392822	0.079255572	PASS
SRGAP3	3	8980591	9363053	0.06149513	PASS
SRGN	10	69088106	69104811	0.032351597	PASS
SRI	7	88205118	88226993	-0.221864321	PASS
SRL	16	4189374	4242080	0.053595371	PASS

SRM	1	11054584	11060024	0.364796772	PASS
SRMS	20	63540810	63547504	-0.172056771	suppress_segment_too_large
SRP14	15	40035739	40039188	-0.423772929	PASS
SRP19	5	112861188	112898371	-0.393084436	PASS
SRP54	14	34981957	35029567	0.053252507	PASS
SRP68	17	76038775	76072653	0.051798665	PASS
SRP72	4	56467336	56503681	0.115781418	suppress_segment_too_large
SRP9	1	225777813	225790466	-0.204996646	suppress_segment_too_large
SRPK1	6	35832966	35921342	0.028532667	PASS
SRPK2	7	105110704	105399308	-0.712149877	PASS
SRPK3	23	153776412	153785732	0.158844052	PASS
SRPRA	11	126262919	126269144	-0.431650509	PASS
SRPRB	3	133784033	133825772	0.06434429	PASS
SRPX	23	38149336	38220924	0.158844052	PASS
SRPX2	23	100644166	100675788	0.158844052	PASS
SRR	17	2303383	2325260	0.06854245	PASS
SRRD	22	26483877	26494658	-0.740245994	PASS
SRRM1	1	24631716	24673267	0.048749694	PASS
SRRM2	16	2752329	2772538	0.053595371	PASS
SRRM3	7	76201900	76287288	-0.701511252	PASS
SRRM4	12	118981495	119163051	0.028722739	PASS
SRRM5	19	43596617	43614497	0.048917043	PASS
SRRT	7	100875111	100888664	-0.710463272	PASS
SRSF1	17	58003360	58007346	0.051798665	PASS
SRSF10	1	23964804	23980927	0.048749694	PASS
SRSF11	1	70205682	70253052	0.052232535	PASS
SRSF12	6	89095959	89118081	-0.355603029	PASS
SRSF2	17	76734115	76737374	0.051798665	PASS
SRSF3	6	36594353	36605600	0.028532667	PASS
SRSF4	1	29147743	29181987	0.048749694	PASS
SRSF5	14	69726900	69772005	0.053252507	PASS
SRSF6	20	43457928	43464247	-0.172056771	suppress_segment_too_large
SRSF7	2	38743599	38751494	0.034263343	PASS
SRSF8	11	95067197	95071224	0.32805343	suppress_segment_too_large
SRSF9	12	120461668	120469793	0.028722739	PASS
SRXN1	20	646615	653370	-0.172056771	suppress_segment_too_large
SS18	18	26016253	26091217	-0.330515409	PASS
SS18L1	20	62143795	62182484	-0.172056771	suppress_segment_too_large
SS18L2	3	42581840	42595114	-0.727808231	PASS
SSB	2	169791933	169812064	0.033541467	PASS
SSBP1	7	141738321	141787922	-0.712149877	PASS
SSBP2	5	81413021	81751797	-0.393084436	PASS
SSBP3	1	54225432	54413479	-0.736943052	PASS
SSBP4	19	18418864	18434562	-0.069222905	PASS
SSC4D	7	76389334	76409695	-0.701511252	PASS
SSC5D	19	55488404	55519098	0.142581352	PASS
SSH1	12	108778192	108857590	0.028722739	PASS
SSH2	17	29625938	29930276	0.041294512	PASS
SSH3	11	67303448	67312607	0.064535884	PASS
SSMEM1	7	130206344	130216844	-0.712149877	PASS
SSNA1	9	137188647	137190370	0.073960965	PASS
SSPN	12	26121991	26299290	0.49032213	suppress_segment_too_large
SSPO	7	149776042	149833979	-0.712149877	PASS
SSR1	6	7268306	7347446	0.069043418	PASS

SSR2	1	156009048	156020959	0.088103245	PASS
SSR3	3	156540140	156555184	0.02267528	PASS
SSR4	23	153793516	153798505	0.158844052	PASS
SSRP1	11	57325985	57335877	0.27006553	suppress_segment_too_large
SSSCA1	11	65570430	65573942	0.064535884	PASS
SST	3	187668906	187670399	0.02267528	PASS
SSTR1	14	38207999	38213067	0.053252507	PASS
SSTR2	17	73165012	73176633	0.051798665	PASS
SSTR3	22	37204238	37212322	-0.740245994	PASS
SSTR4	20	23035386	23036812	-0.172056771	suppress_segment_too_large
SSTR5	16	1078781	1080142	0.053595371	PASS
SSU72	1	1541673	1574869	-0.358281697	PASS
SSUH2	3	8619400	8745040	0.06149513	PASS
SSX1	23	48255317	48267444	0.158844052	PASS
SSX2	23	52696896	52707189	0.158844052	PASS
SSX2B	23	52751132	52790305	0.158844052	PASS
SSX2IP	1	84643707	84690803	0.587598296	PASS
SSX3	23	48346428	48356707	0.158844052	PASS
SSX4	23	48383516	48393347	0.158844052	PASS
SSX4B	23	48402078	48411910	0.158844052	PASS
SSX5	23	48186220	48196763	0.158844052	PASS
SSX7	23	52644090	52654900	0.158844052	PASS
ST13	22	40824535	40857022	-0.740245994	PASS
ST14	11	130159562	130210376	-0.431650509	PASS
ST18	8	52110839	52460959	0.182873287	suppress_segment_too_large
ST20	15	79898840	79923702	-0.759380635	PASS
ST20-MTF	15	79845150	79923754	-0.759380635	PASS
ST3GAL1	8	133454848	133571940	0.493344802	suppress_segment_too_large
ST3GAL2	16	70375978	70439237	-0.423061015	PASS
ST3GAL3	1	43705824	43931165	-0.736943052	PASS
ST3GAL4	11	126355640	126440344	-0.431650509	PASS
ST3GAL5	2	85837120	85905199	0.064122364	PASS
ST3GAL6	3	98732236	98821201	0.22470242	PASS
ST5	11	8693351	8910951	-0.39835217	PASS
ST6GAL1	3	186930485	187078553	0.02267528	PASS
ST6GAL2	2	106801600	106887108	-0.439572519	PASS
ST6GALN	17	76624761	76643838	0.051798665	PASS
ST6GALN	17	76565379	76586956	0.051798665	PASS
ST6GALN	1	76074719	76634601	0.052232535	PASS
ST6GALN	9	127907886	127917038	0.073960965	PASS
ST6GALN	1	76867441	77065711	0.052232535	PASS
ST6GALN	9	127885321	127905408	0.073960965	PASS
ST7	7	116953238	117230103	-0.712149877	PASS
ST7L	1	112523518	112620825	0.079255572	PASS
ST8SIA1	12	22063773	22437041	0.49032213	suppress_segment_too_large
ST8SIA2	15	92393828	92468728	-0.759380635	PASS
ST8SIA3	18	57350813	57371731	-0.330515409	PASS
ST8SIA4	5	100806935	100903266	-0.393084436	PASS
ST8SIA5	18	46667821	46759257	-0.330515409	PASS
ST8SIA6	10	17318383	17454330	0.075711544	PASS
STAB1	3	52495338	52524495	-0.727808231	PASS
STAB2	12	103587273	103766727	0.028722739	PASS
STAC	3	36380344	36548007	-0.727808231	PASS
STAC2	17	39210536	39225872	0.041294512	PASS

STAC3	12	57243453	57251193	-0.743220499	PASS
STAG1	3	136336233	136752403	0.06434429	PASS
STAG2	23	123960212	124422664	0.158844052	PASS
STAG3	7	100177563	100221488	-0.710463272	PASS
STAM	10	17644125	17715914	0.075711544	PASS
STAM2	2	152116801	152175992	-0.30549516	PASS
STAMBP	2	73828916	73873659	-0.46122572	PASS
STAMBPL	10	88879734	88975153	-2.417109027	suppress_large_homdel
STAP1	4	67558728	67607337	0.115781418	suppress_segment_too_large
STAP2	19	4324043	4342786	-0.071973357	PASS
STAR	8	38143649	38151265	0.182873287	suppress_segment_too_large
STARD10	11	72754729	72793681	0.064535884	PASS
STARD13	13	33103135	33350630	-0.398748891	PASS
STARD3	17	39637065	39663484	0.041294512	PASS
STARD3N	7	38178222	38230671	-0.72421718	PASS
STARD4	5	111496033	111512590	-0.393084436	PASS
STARD5	15	81309053	81324183	-0.759380635	PASS
STARD6	18	54324358	54357964	-0.330515409	PASS
STARD7	2	96184859	96208825	0.064122364	PASS
STARD8	23	68647666	68725842	0.158844052	PASS
STARD9	15	42575659	42720981	-0.423772929	PASS
STAT1	2	190964358	191020960	0.011001208	PASS
STAT2	12	56341597	56360155	-0.743220499	PASS
STAT3	17	42313324	42388568	0.041294512	PASS
STAT4	2	191029576	191151596	0.011001208	PASS
STAT5A	17	42287547	42311943	0.041294512	PASS
STAT5B	17	42199168	42276707	0.041294512	PASS
STAT6	12	57095408	57132139	-0.743220499	PASS
STATH	4	69995930	70002570	0.115781418	suppress_segment_too_large
STAU1	20	49113339	49188367	-0.172056771	suppress_segment_too_large
STAU2	8	73420369	73747708	0.182873287	suppress_segment_too_large
STBD1	4	76306026	76311599	-0.677982248	PASS
STC1	8	23841915	23854807	-0.311940419	PASS
STC2	5	173314713	173329503	0.165341871	suppress_segment_too_large
STEAP1	7	90154375	90164829	-0.710463272	PASS
STEAP1B	7	22419444	22727613	-0.72421718	PASS
STEAP2	7	90167590	90238137	-0.710463272	PASS
STEAP3	2	119223831	119265652	-0.359440172	PASS
STEAP4	7	88270892	88306891	-0.221864321	PASS
STH	17	45999250	45999694	0.051798665	PASS
STIL	1	47250139	47314147	-0.736943052	PASS
STIM1	11	3854527	4093210	-0.39835217	PASS
STIM2	4	26857678	27025381	-2.804710927	PASS
STIMATE	3	52836219	52897596	-0.727808231	PASS
STIP1	11	64185272	64204543	0.064535884	PASS
STK10	5	172042073	172188386	0.165341871	suppress_segment_too_large
STK11	19	1177558	1228435	-0.071973357	PASS
STK11IP	2	219597860	219616451	0.011001208	PASS
STK16	2	219245455	219250337	0.011001208	PASS
STK17A	7	43582758	43650713	-0.72421718	PASS
STK17B	2	196133566	196176503	0.011001208	PASS
STK19	6	31971091	31982821	0.028532667	PASS
STK24	13	98445185	98577940	-0.384313056	PASS
STK26	23	132023265	132075943	0.158844052	PASS

STK3	8	98371228	98942827	0.355469066	suppress_segment_too_large
STK31	7	23710167	23832513	-0.72421718	PASS
STK32A	5	147234963	147387852	-0.393084436	PASS
STK32B	4	5051442	5500998	-0.358623662	PASS
STK32C	10	132207492	132331847	0.073090211	PASS
STK33	11	8391868	8594289	-0.39835217	PASS
STK35	20	2101611	2177038	-0.172056771	suppress_segment_too_large
STK36	2	218672026	218702716	0.011001208	PASS
STK38	6	36493892	36547470	0.028532667	PASS
STK38L	12	27243968	27325959	0.49032213	suppress_segment_too_large
STK39	2	167954020	168248141	0.319987345	PASS
STK4	20	44966474	45079959	-0.172056771	suppress_segment_too_large
STK40	1	36339624	36385896	0.048749694	PASS
STKLD1	9	133376367	133406096	0.073960965	PASS
STMN1	1	25884181	25906991	0.048749694	PASS
STMN2	8	79610814	79666175	0.617295349	suppress_segment_too_large
STMN3	20	63639705	63657682	-0.172056771	suppress_segment_too_large
STMN4	8	27235323	27258420	-0.311940419	PASS
STMND1	6	17102258	17131372	0.069043418	PASS
STMP1	7	135662496	135693418	-0.712149877	PASS
STN1	10	103882542	103918205	-0.414937136	PASS
STOM	9	121338988	121370304	0.073960965	PASS
STOML1	15	73978923	73994622	-0.759380635	PASS
STOML2	9	35099776	35103195	0.073960965	PASS
STOML3	13	38965925	38991066	-0.398748891	PASS
STON1	2	48529383	48598513	0.034263343	PASS
STON1-GT	2	48529925	48776517	0.034263343	PASS
STON2	14	81260656	81436465	-0.155273506	suppress_segment_too_large
STOX1	10	68827541	68895432	0.032351597	PASS
STOX2	4	183797692	184023526	-0.453876349	PASS
STPG1	1	24356999	24416934	0.048749694	PASS
STPG2	4	97184093	98143240	-0.677982248	PASS
STPG3	9	137251261	137253483	0.073960965	PASS
STPG4	2	47045538	47155378	0.034263343	PASS
STRA6	15	74179466	74212267	-0.759380635	PASS
STRA8	7	135231979	135258492	-0.712149877	PASS
STRADA	17	63682336	63741986	0.051798665	PASS
STRADB	2	201387858	201480846	0.011001208	PASS
STRAP	12	15882391	15903478	0.49032213	suppress_segment_too_large
STRBP	9	123109500	123268576	0.073960965	PASS
STRC	15	43599563	43618800	-0.423772929	PASS
STRIP1	1	110031577	110074641	0.079255572	PASS
STRIP2	7	129434433	129488399	-0.712149877	PASS
STRN	2	36843640	36966472	0.034263343	PASS
STRN3	14	30893799	31026401	0.053252507	PASS
STRN4	19	46719507	46746994	0.002743503	PASS
STS	23	7219456	7354810	0.158844052	PASS
STT3A	11	125591712	125625215	-0.431650509	PASS
STT3B	3	31532638	31637622	0.06149513	PASS
STUB1	16	680224	682870	0.053595371	PASS
STUM	1	226548800	226609214	-0.204996646	suppress_segment_too_large
STX10	19	13144058	13150383	-0.069222905	PASS
STX11	6	144150526	144188370	0.033894706	PASS
STX12	1	27773183	27824452	0.048749694	PASS

STX16	20	58651253	58679526	-0.172056771	suppress_segment_too_large
STX16-NP	20	58651434	58715410	-0.172056771	suppress_segment_too_large
STX17	9	99906633	99970341	0.073960965	PASS
STX18	4	4415742	4542346	-0.358623662	PASS
STX19	3	94014369	94028610	0.22470242	PASS
STX1A	7	73699206	73719672	-0.701511252	PASS
STX1B	16	30989256	31010661	0.053595371	PASS
STX2	12	130789600	130839266	0.028722739	PASS
STX3	11	59713456	59805882	0.27006553	suppress_segment_too_large
STX4	16	31032889	31042975	0.053595371	PASS
STX5	11	62806897	62832088	0.064535884	PASS
STX6	1	180972712	181023121	0.088103245	PASS
STX7	6	132445867	132513198	-0.304168115	PASS
STX8	17	9250471	9576591	0.06854245	PASS
STXBP1	9	127579370	127696027	0.073960965	PASS
STXBP2	19	7636881	7647873	-0.071973357	PASS
STXBP3	1	108746674	108809526	0.079255572	PASS
STXBP4	17	54968727	55173632	0.051798665	PASS
STXBP5	6	147204425	147390476	0.033894706	PASS
STXBP5L	3	120908072	121424761	0.06434429	PASS
STXBP6	14	24809656	25050297	0.053252507	PASS
STYK1	12	10618939	10674318	0.505438545	PASS
STYX	14	52730180	52774998	0.053252507	PASS
STYXL1	7	75996338	76048004	-0.701511252	PASS
SUB1	5	32531633	32604079	0.073527871	PASS
SUCLA2	13	47745736	48037968	-0.398748891	PASS
SUCLG1	2	84423523	84460045	0.064122364	PASS
SUCLG2	3	67360460	67654614	-0.727808231	PASS
SUCNR1	3	151873643	151884619	0.02267528	PASS
SUCO	1	172532349	172611833	0.088103245	PASS
SUDS3	12	118376380	118418031	0.028722739	PASS
SUFU	10	102503987	102633535	-0.414937136	PASS
SUGCT	7	40134977	40860763	-0.72421718	PASS
SUGP1	19	19276018	19320844	-0.069222905	PASS
SUGP2	19	18990888	19034023	-0.069222905	PASS
SUGT1	13	52652709	52700909	-0.384313056	PASS
SULF1	8	69466624	69660915	0.182873287	suppress_segment_too_large
SULF2	20	47656348	47786616	-0.172056771	suppress_segment_too_large
SULT1A1	16	28605196	28623625	0.053595371	PASS
SULT1A2	16	28591943	28597109	0.053595371	PASS
SULT1B1	4	69721162	69787961	0.115781418	suppress_segment_too_large
SULT1C2	2	108288639	108309915	0.040971718	PASS
SULT1C3	2	108247195	108265351	0.040971718	PASS
SULT1C4	2	108377911	108388057	0.040971718	PASS
SULT1E1	4	69841212	69860152	0.115781418	suppress_segment_too_large
SULT2A1	19	47870466	47886397	0.002743503	PASS
SULT2B1	19	48552075	48599425	0.002743503	PASS
SULT4A1	22	43824509	43862503	-0.740245994	PASS
SULT6B1	2	37167820	37196598	0.034263343	PASS
SUMF1	3	3700814	4467281	0.06149513	PASS
SUMF2	7	56064002	56080670	-0.701511252	PASS
SUMO1	2	202206180	202238608	0.011001208	PASS
SUMO2	17	75165586	75182983	0.051798665	PASS
SUMO3	21	44805617	44818779	0.209983559	PASS

SUMO4	6	149400227	149401292	0.033894706	PASS
SUN1	7	816615	896435	-0.72421718	PASS
SUN2	22	38734725	38794143	-0.740245994	PASS
SUN3	7	47987148	48029119	-0.72421718	PASS
SUN5	20	32983773	33004433	-0.172056771	suppress_segment_too_large
SUOX	12	55997180	56006641	-0.743220499	PASS
SUPT16H	14	21351472	21384266	0.053252507	PASS
SUPT20H	13	37009312	37059713	-0.398748891	PASS
SUPT3H	6	44809317	45377953	0.028532667	PASS
SUPT4H1	17	58345175	58353093	0.051798665	PASS
SUPT5H	19	39436156	39476670	0.048917043	PASS
SUPT6H	17	28662091	28702684	0.041294512	PASS
SUPT7L	2	27650812	27663840	0.034263343	PASS
SUPV3L1	10	69180232	69209099	0.032351597	PASS
SURF1	9	133351755	133356676	0.073960965	PASS
SURF2	9	133356552	133361169	0.073960965	PASS
SURF4	9	133361449	133376166	0.073960965	PASS
SURF6	9	133328774	133336398	0.073960965	PASS
SUSD1	9	112040785	112175408	0.073960965	PASS
SUSD2	22	24181259	24189110	-0.740245994	PASS
SUSD3	9	93058688	93085138	0.073960965	PASS
SUSD4	1	223220819	223364202	-0.204996646	suppress_segment_too_large
SUSD5	3	33150042	33219215	0.06149513	PASS
SUSD6	14	69611596	69715142	0.053252507	PASS
SUV39H1	23	48695554	48709012	0.158844052	PASS
SUV39H2	10	14878820	14904315	0.075711544	PASS
SUZ12	17	31937018	32001045	0.041294512	PASS
SV2A	1	149903318	149917882	0.079255572	PASS
SV2B	15	91099950	91301309	-0.759380635	PASS
SV2C	5	76083172	76353939	-0.393084436	PASS
SVBP	1	42807052	42817252	-0.736943052	PASS
SVEP1	9	110365251	110579880	0.073960965	PASS
SVIL	10	29457338	29736781	0.075711544	PASS
SVOP	12	108907741	109021240	0.028722739	PASS
SVOPL	7	138594285	138701352	-0.712149877	PASS
SWAP70	11	9664077	9752991	-0.39835217	PASS
SWI5	9	128275379	128288990	0.073960965	PASS
SWSAP1	19	11374685	11376951	-0.107594294	PASS
SWT1	1	185157080	185291765	0.088103245	PASS
SYAP1	23	16719632	16765336	0.158844052	PASS
SYBU	8	109573978	109691791	0.70944438	suppress_segment_too_large
SYCE1	10	133553901	133569835	0.073090211	PASS
SYCE1L	16	77199397	77213215	-0.423061015	PASS
SYCE2	19	12898786	12919276	-0.069222905	PASS
SYCE3	22	50551112	50562905	-0.953096644	PASS
SYCN	19	39202831	39204266	0.048917043	PASS
SYCP1	1	114854803	114995370	0.079255572	PASS
SYCP2	20	59863563	59933655	-0.172056771	suppress_segment_too_large
SYCP2L	6	10886831	10979320	0.069043418	PASS
SYCP3	12	101728648	101739472	0.028722739	PASS
SYDE1	19	15107403	15114988	-0.069222905	PASS
SYDE2	1	85156873	85201046	0.587598296	PASS
SYF2	1	25222679	25232502	0.048749694	PASS
SYK	9	90801787	90898549	0.073960965	PASS

SYMPK	19	45815410	45863290	0.002743503	PASS
SYN1	23	47571898	47619943	0.158844052	PASS
SYN2	3	12004402	12191400	0.06149513	PASS
SYN3	22	32512552	33058372	-0.740245994	PASS
SYNC	1	32680360	32703596	0.048749694	PASS
SYNCRIP	6	85607785	85643792	-0.355603029	PASS
SYNDIG1	20	24469199	24666616	-0.172056771	suppress_segment_too_large
SYNDIG1l	14	74405893	74426102	-0.155273506	suppress_segment_too_large
SYNE1	6	152121684	152637801	0.033894706	PASS
SYNE2	14	63852983	64226433	0.053252507	PASS
SYNE3	14	95407266	95475836	-0.155273506	suppress_segment_too_large
SYNE4	19	36003299	36008793	0.044838622	PASS
SYNGAP1	6	33419661	33457541	0.028532667	PASS
SYNGR1	22	39349925	39385588	-0.740245994	PASS
SYNGR2	17	78168558	78173527	0.051798665	PASS
SYNGR3	16	1989660	1994275	0.053595371	PASS
SYNGR4	19	48364395	48376376	0.002743503	PASS
SYNJ1	21	32628759	32728048	0.209983559	PASS
SYNJ2	6	157981887	158099176	0.033894706	PASS
SYNJ2BP	14	70366496	70417061	0.053252507	PASS
SYNJ2BP-	14	70326064	70417074	0.053252507	PASS
SYNM	15	99098217	99135593	-0.759380635	PASS
SYNPO	5	150601080	150659220	-0.393084436	PASS
SYNPO2	4	118850688	119061247	-0.754119944	PASS
SYNPO2L	10	73644881	73663803	0.032351597	PASS
SYNPR	3	63228315	63616921	-0.727808231	PASS
SYNRG	17	37514797	37609496	0.041294512	PASS
SYP	23	49187804	49200259	0.158844052	PASS
SYPL1	7	106090503	106112576	-0.712149877	PASS
SYPL2	1	109466628	109482137	0.079255572	PASS
SYS1	20	45361937	45376798	-0.172056771	suppress_segment_too_large
SYS1-DBN	20	45363200	45410610	-0.172056771	suppress_segment_too_large
SYT1	12	78863993	79452008	0.271127429	suppress_segment_too_large
SYT10	12	33374238	33439819	0.49032213	suppress_segment_too_large
SYT11	1	155859509	155885199	0.088103245	PASS
SYT12	11	67006778	67050863	0.064535884	PASS
SYT13	11	45240301	45286319	0.059795455	PASS
SYT14	1	209938174	210171389	-0.204996646	suppress_segment_too_large
SYT15	10	46578217	46594173	-0.389033546	PASS
SYT16	14	61811974	62112550	0.053252507	PASS
SYT17	16	19167971	19268334	0.053595371	PASS
SYT2	1	202590596	202710417	-0.204996646	suppress_segment_too_large
SYT3	19	50621307	50639827	0.002743503	PASS
SYT4	18	43267878	43277650	-0.330515409	PASS
SYT5	19	55171199	55180441	0.142581352	PASS
SYT6	1	114089291	114153919	0.079255572	PASS
SYT7	11	61515313	61581148	0.064535884	PASS
SYT8	11	1828307	1837521	-0.39835217	PASS
SYT9	11	7238778	7469042	-0.39835217	PASS
SYTL1	1	27342020	27353937	0.048749694	PASS
SYTL2	11	85694224	85811159	0.064535884	PASS
SYTL3	6	158650014	158764876	0.033894706	PASS
SYTL4	23	100674491	100732123	0.158844052	PASS
SYTL5	23	38006582	38128819	0.158844052	PASS

SYVN1	11	65121780	65134533	0.064535884	PASS
SZRD1	1	16352575	16398145	0.048749694	PASS
SZT2	1	43389882	43454247	-0.736943052	PASS
TAAR1	6	132644984	132646003	-0.304168115	PASS
TAAR2	6	132617022	132624275	-0.304168115	PASS
TAAR5	6	132588673	132589686	-0.304168115	PASS
TAAR6	6	132570322	132571359	-0.304168115	PASS
TAAR8	6	132552693	132553721	-0.304168115	PASS
TAAR9	6	132538290	132539336	-0.304168115	PASS
TAB1	22	39399741	39437060	-0.740245994	PASS
TAB2	6	149218641	149411613	0.033894706	PASS
TAB3	23	30827442	30975084	0.158844052	PASS
TAC1	7	97731908	97740472	-0.710463272	PASS
TAC3	12	57010000	57028883	-0.743220499	PASS
TAC4	17	49838309	49848017	0.051798665	PASS
TACC1	8	38728186	38853028	0.182873287	suppress_segment_too_large
TACC2	10	121989174	122254545	0.073090211	PASS
TACC3	4	1721490	1745176	-0.358623662	PASS
TACO1	17	63600872	63608365	0.051798665	PASS
TACR1	2	75046463	75199700	-0.46122572	PASS
TACR2	10	69403903	69416867	0.032351597	PASS
TACR3	4	103586031	103719816	-0.677982248	PASS
TACSTD2	1	58575423	58577773	-0.736943052	PASS
TADA1	1	166856510	166876327	0.088103245	PASS
TADA2A	17	37406874	37479730	0.041294512	PASS
TADA2B	4	7041899	7057952	-0.358623662	PASS
TADA3	3	9779860	9793011	0.06149513	PASS
TAF1	23	71366239	71532374	0.158844052	PASS
TAF10	11	6606296	6612667	-0.39835217	PASS
TAF11	6	34877462	34888089	0.028532667	PASS
TAF12	1	28589323	28643085	0.048749694	PASS
TAF13	1	109062486	109076002	0.079255572	PASS
TAF15	17	35713791	35864615	0.041294512	PASS
TAF1A	1	222557902	222589933	-0.204996646	suppress_segment_too_large
TAF1B	2	9843354	9934416	0.034263343	PASS
TAF1C	16	84177847	84187070	-0.423061015	PASS
TAF1D	11	93729948	93784391	0.064535884	PASS
TAF1L	9	32629454	32635669	0.073960965	PASS
TAF2	8	119730775	119832863	0.493344802	suppress_segment_too_large
TAF3	10	7818504	8016627	0.075711544	PASS
TAF4	20	61953469	62065810	-0.172056771	suppress_segment_too_large
TAF4B	18	26225936	26391685	-0.330515409	PASS
TAF5	10	103367967	103389065	-0.414937136	PASS
TAF5L	1	229593111	229626047	-0.204996646	suppress_segment_too_large
TAF6	7	100107070	100119841	-0.710463272	PASS
TAF6L	11	62771303	62787342	0.064535884	PASS
TAF7	5	141260225	141320821	-0.393084436	PASS
TAF7L	23	101268253	101293057	0.158844052	PASS
TAF8	6	42050513	42087461	0.028532667	PASS
TAF9	5	69364743	69370013	-0.393084436	PASS
TAF9B	23	78129748	78139706	0.158844052	PASS
TAGAP	6	159034468	159045152	0.033894706	PASS
TAGLN	11	117199321	117204782	-0.431650509	PASS
TAGLN2	1	159918107	159925732	0.088103245	PASS

TAGLN3	3	111998664	112013887	0.06434429	PASS
TAL1	1	47216290	47232220	-0.736943052	PASS
TAL2	9	105662457	105663112	0.073960965	PASS
TALDO1	11	747329	765024	-0.39835217	PASS
TAMM41	3	11790442	11846919	0.06149513	PASS
TANC1	2	158968671	159232659	0.054749241	PASS
TANC2	17	63009556	63427699	0.051798665	PASS
TANGO2	22	20017014	20065926	-0.740245994	PASS
TANGO6	16	68843604	69085180	-0.423061015	PASS
TANK	2	161136908	161236221	0.054749241	PASS
TAOK1	17	29390464	29551904	0.041294512	PASS
TAOK2	16	29973641	29992261	0.053595371	PASS
TAOK3	12	118149801	118372945	0.028722739	PASS
TAP1	6	32845209	32853978	0.028532667	PASS
TAP2	6	32821833	32838780	0.028532667	PASS
TAPBP	6	33299694	33314387	0.028532667	PASS
TAPBPL	12	6451690	6466517	-0.015029783	PASS
TAPT1	4	16160505	16227410	-0.358623662	PASS
TARBP1	1	234391313	234479103	-0.204996646	suppress_segment_too_large
TARBP2	12	53500921	53506431	-0.743220499	PASS
TARDBP	1	11012344	11026420	0.364796772	PASS
TARM1	19	54069895	54081365	0.142581352	PASS
TARS	5	33440696	33469539	0.073527871	PASS
TARS2	1	150487364	150507609	0.079255572	PASS
TARSL2	15	101653598	101724604	-0.759380635	PASS
TAS1R1	1	6555181	6579757	0.364796772	PASS
TAS1R2	1	18839599	18859682	0.048749694	PASS
TAS1R3	1	1331314	1335306	-0.358281697	PASS
TAS2R1	5	9628997	9712378	0.073527871	PASS
TAS2R10	12	10825317	10826358	1.742221027	PASS
TAS2R13	12	10907926	10909562	0.49032213	suppress_segment_too_large
TAS2R14	12	10937406	11171573	0.49032213	suppress_segment_too_large
TAS2R16	7	122994704	122995700	-0.712149877	PASS
TAS2R19	12	11021619	11022620	0.49032213	suppress_segment_too_large
TAS2R20	12	10996495	10997875	0.49032213	suppress_segment_too_large
TAS2R3	7	141764097	141765197	-0.712149877	PASS
TAS2R30	12	11132958	11134644	0.49032213	suppress_segment_too_large
TAS2R31	12	11030387	11031407	0.49032213	suppress_segment_too_large
TAS2R38	7	141972631	141973773	-0.712149877	PASS
TAS2R39	7	143183419	143184435	-0.712149877	PASS
TAS2R4	7	141778442	141780819	-0.712149877	PASS
TAS2R40	7	143222037	143223079	-0.712149877	PASS
TAS2R41	7	143477873	143478796	-0.712149877	PASS
TAS2R42	12	11185993	11186937	0.49032213	suppress_segment_too_large
TAS2R46	12	11061365	11062294	0.49032213	suppress_segment_too_large
TAS2R5	7	141790217	141791367	-0.712149877	PASS
TAS2R50	12	10985913	10986912	0.49032213	suppress_segment_too_large
TAS2R60	7	143443453	143444409	-0.712149877	PASS
TAS2R7	12	10801532	10802627	0.505438545	PASS
TAS2R8	12	10806051	10807293	1.742221027	PASS
TAS2R9	12	10809094	10810168	1.742221027	PASS
TASP1	20	13389392	13638940	-0.172056771	suppress_segment_too_large
TAT	16	71565660	71577130	-0.423061015	PASS
TATDN1	8	124488485	124539458	0.493344802	suppress_segment_too_large

TATDN2	3	10248023	10281218	0.06149513	PASS
TATDN3	1	212791828	212816626	-0.204996646	suppress_segment_too_large
TAX1BP1	7	27739331	27844564	-0.72421718	PASS
TAX1BP3	17	3662896	3668682	0.06854245	PASS
TAZ	23	154411518	154421726	0.158844052	PASS
TBATA	10	70771239	70785401	0.032351597	PASS
TBC1D1	4	37891087	38139175	-0.753159364	PASS
TBC1D10A	22	30291990	30327046	-0.740245994	PASS
TBC1D10B	16	30357102	30370264	0.053595371	PASS
TBC1D10C	11	67403915	67410089	0.064535884	PASS
TBC1D12	10	94402504	94535930	-0.414937136	PASS
TBC1D13	9	128787204	128810432	0.073960965	PASS
TBC1D14	4	6909242	7033118	-0.358623662	PASS
TBC1D15	12	71839707	71927248	-0.578548701	PASS
TBC1D16	17	79932343	80035848	0.051798665	PASS
TBC1D17	19	49877425	49888749	0.002743503	PASS
TBC1D19	4	26576437	26755351	-2.804710927	PASS
TBC1D2	9	98198999	98255721	0.073960965	PASS
TBC1D20	20	435480	462553	-0.172056771	suppress_segment_too_large
TBC1D21	15	73873608	73889214	-0.759380635	PASS
TBC1D22A	22	46762617	47175699	-0.953096644	PASS
TBC1D22B	6	37257772	37332970	0.028532667	PASS
TBC1D23	3	100261000	100325251	0.22470242	PASS
TBC1D24	16	2475051	2509560	0.053595371	PASS
TBC1D25	23	48539457	48562609	0.158844052	PASS
TBC1D26	17	15732247	15749192	0.06854245	PASS
TBC1D28	17	18635006	18661950	0.06854245	PASS
TBC1D29	17	30553502	30563493	0.041294512	PASS
TBC1D2B	15	77984036	78077724	-0.759380635	PASS
TBC1D30	12	64780516	64881032	-0.743220499	PASS
TBC1D31	8	123041968	123152153	0.493344802	suppress_segment_too_large
TBC1D32	6	121079494	121334745	-0.355603029	PASS
TBC1D3B	17	36165681	36176636	0.041294512	PASS
TBC1D3E	17	38127951	38138862	0.041294512	PASS
TBC1D3F	17	36428618	36439566	0.041294512	PASS
TBC1D3G	17	36323884	36334759	0.041294512	PASS
TBC1D3I	17	36253456	36264553	0.041294512	PASS
TBC1D3K	17	37924415	37935365	0.041294512	PASS
TBC1D3L	17	37977972	37989048	0.041294512	PASS
TBC1D4	13	75283503	75482114	-0.384313056	PASS
TBC1D5	3	17157162	18444817	0.06149513	PASS
TBC1D7	6	13266542	13328583	0.069043418	PASS
TBC1D8	2	101007617	101252866	0.064122364	PASS
TBC1D8B	23	106802680	106876145	0.158844052	PASS
TBC1D9	4	140620765	140756120	0.142431244	suppress_segment_too_large
TBC1D9B	5	179862066	179907859	0.165341871	suppress_segment_too_large
TBCA	5	77691166	77868780	-0.393084436	PASS
TBCB	19	36114289	36125947	0.044838622	PASS
TBCC	6	42744481	42746096	0.028532667	PASS
TBCCD1	3	186546073	186570543	0.02267528	PASS
TBCD	17	82752064	82945922	0.051798665	PASS
TBCE	1	235328570	235452443	-0.204996646	suppress_segment_too_large
TBCEL	11	121024072	121090775	-0.431650509	PASS
TBCK	4	106041599	106321495	-0.677982248	PASS

TBK1	12	64451880	64502108	-0.743220499	PASS
TBKBP1	17	47694081	47712050	0.051798665	PASS
TBL1X	23	9463295	9741037	0.158844052	PASS
TBL1XR1	3	177019340	177228000	0.02267528	PASS
TBL2	7	73567533	73578791	-0.701511252	PASS
TBL3	16	1972037	1982933	0.053595371	PASS
TBP	6	170554302	170572870	0.033894706	PASS
TBPL1	6	133952170	133990432	0.033894706	PASS
TBPL2	14	55413541	55456726	0.053252507	PASS
TBR1	2	161416094	161425870	0.272442947	PASS
TBRG1	11	124622836	124635398	-0.431650509	PASS
TBRG4	7	45100100	45112047	-0.72421718	PASS
TBX1	22	19756703	19783593	-0.740245994	PASS
TBX10	11	67631303	67639560	0.064535884	PASS
TBX15	1	118883046	118989556	0.079255572	PASS
TBX18	6	84687351	84764519	-0.355603029	PASS
TBX19	1	168281040	168314426	0.088103245	PASS
TBX2	17	61399896	61409466	0.051798665	PASS
TBX20	7	35202430	35254147	-0.72421718	PASS
TBX21	17	47733244	47746119	0.051798665	PASS
TBX22	23	80014756	80031769	0.158844052	PASS
TBX3	12	114670254	114684164	0.028722739	PASS
TBX4	17	61452404	61485110	0.051798665	PASS
TBX5	12	114353931	114408442	0.028722739	PASS
TBX6	16	30085793	30091887	0.053595371	PASS
TBXA2R	19	3594506	3606840	-0.071973357	PASS
TBXAS1	7	139777051	140020325	-0.712149877	PASS
TBXT	6	166157656	166168700	0.033894706	PASS
TC2N	14	91779751	91867536	-0.155273506	suppress_segment_too_large
TCAF1	7	143851375	143902198	-0.712149877	PASS
TCAF2	7	143620952	143730409	-0.712149877	PASS
TCAIM	3	44338119	44409451	-0.727808231	PASS
TCAP	17	39664187	39666555	0.041294512	PASS
TCEA1	8	53966552	54022529	0.182873287	suppress_segment_too_large
TCEA2	20	64049836	64072347	-0.172056771	suppress_segment_too_large
TCEA3	1	23381061	23424740	0.048749694	PASS
TCEAL1	23	103628704	103630953	0.158844052	PASS
TCEAL2	23	102125688	102127711	0.158844052	PASS
TCEAL3	23	103607451	103629690	0.158844052	PASS
TCEAL4	23	103576231	103587736	0.158844052	PASS
TCEAL5	23	103273691	103276872	0.158844052	PASS
TCEAL6	23	102140476	102142970	0.158844052	PASS
TCEAL7	23	103330196	103332326	0.158844052	PASS
TCEAL8	23	103252995	103255203	0.158844052	PASS
TCEAL9	23	103356489	103358462	0.158844052	PASS
TCEANC	23	13653189	13681964	0.158844052	PASS
TCEANC2	1	54053584	54112519	-0.736943052	PASS
TCERG1	5	146447311	146511961	-0.393084436	PASS
TCERG1L	10	131092391	131311721	0.073090211	PASS
TCF12	15	56918623	57299281	-0.759380635	PASS
TCF15	20	603797	610398	-0.172056771	suppress_segment_too_large
TCF19	6	31158542	31167159	0.069043418	PASS
TCF20	22	42160013	42343616	-0.740245994	PASS
TCF21	6	133889138	133895553	0.033894706	PASS

TCF23	2	27149004	27156974	0.034263343	PASS
TCF24	8	66946501	66962590	0.182873287	suppress_segment_too_large
TCF25	16	89873570	89913627	-0.423061015	PASS
TCF3	19	1609290	1652605	-0.071973357	PASS
TCF4	18	55222331	55664787	-0.330515409	PASS
TCF7	5	134114711	134151865	-0.393084436	PASS
TCF7L1	2	85133410	85310388	0.064122364	PASS
TCF7L2	10	112950250	113167678	0.073090211	PASS
TCFL5	20	62841115	62861763	-0.172056771	suppress_segment_too_large
TCHH	1	152106317	152115454	0.079255572	PASS
TCHHL1	1	152084144	152089064	0.079255572	PASS
TCHP	12	109900264	109983841	0.028722739	PASS
TCIM	8	40153455	40155308	0.182873287	suppress_segment_too_large
TCIRG1	11	68039016	68050895	0.064535884	PASS
TCL1A	14	95709967	95714196	-0.155273506	suppress_segment_too_large
TCL1B	14	95686417	95692643	-0.155273506	suppress_segment_too_large
TCN1	11	59852800	59866575	0.27006553	suppress_segment_too_large
TCN2	22	30606838	30627278	-0.740245994	PASS
TCOF1	5	150357629	150400308	-0.393084436	PASS
TCP1	6	159778498	159789749	0.033894706	PASS
TCP10	6	167357031	167384510	0.033894706	PASS
TCP10L	21	32574841	32587373	0.209983559	PASS
TCP10L2	6	167146414	167196913	0.033894706	PASS
TCP11	6	35118071	35148610	0.028532667	PASS
TCP11L1	11	33039417	33105943	-0.359426047	PASS
TCP11L2	12	106301929	106347015	0.028722739	PASS
TCP11X2	23	102456862	102471842	0.158844052	PASS
TCTA	3	49412206	49416475	-0.727808231	PASS
TCTE1	6	44278743	44297688	0.028532667	PASS
TCTE3	6	169740114	169751587	0.033894706	PASS
TCTEX1D	1	66752459	66778787	0.052232535	PASS
TCTEX1D	3	196291219	196318299	0.02267528	PASS
TCTEX1D	1	44805913	44806675	-0.736943052	PASS
TCTN1	12	110614027	110649430	0.028722739	PASS
TCTN2	12	123671113	123708403	0.028722739	PASS
TCTN3	10	95663396	95694143	-0.414937136	PASS
TDG	12	103965804	103988874	0.028722739	PASS
TDGF1	3	46574534	46582463	-0.727808231	PASS
TDO2	4	155854738	155920406	0.142431244	suppress_segment_too_large
TDP1	14	89954939	90044768	-0.155273506	suppress_segment_too_large
TDP2	6	24649977	24667033	0.069043418	PASS
TDRD1	10	114179270	114232304	0.073090211	PASS
TDRD10	1	154502219	154548147	0.088103245	PASS
TDRD12	19	32719753	32829580	0.044838622	PASS
TDRD15	2	21123917	21143272	0.034263343	PASS
TDRD3	13	60396457	60573878	-0.384313056	PASS
TDRD5	1	179591613	179691272	0.088103245	PASS
TDRD6	6	46687875	46704319	0.239805577	suppress_segment_too_large
TDRD7	9	97411950	97496125	0.073960965	PASS
TDRD9	14	103928462	104052667	-0.155273506	suppress_segment_too_large
TDRKH	1	151770107	151791416	0.079255572	PASS
TDRP	8	489792	545781	-0.311940419	PASS
TEAD1	11	12674591	12944483	-0.39835217	PASS
TEAD2	19	49340595	49362457	0.002743503	PASS

TEAD3	6	35473597	35497076	0.028532667	PASS
TEAD4	12	2959330	3040673	-0.015029783	PASS
TEC	4	48135783	48269864	0.115781418	suppress_segment_too_large
TECPR1	7	98214624	98252251	-0.710463272	PASS
TECPR2	14	102362963	102502481	-0.155273506	suppress_segment_too_large
TECR	19	14517085	14565980	-0.069222905	PASS
TECRL	4	64275257	64409468	0.115781418	suppress_segment_too_large
TECTA	11	121101173	121191493	-0.431650509	PASS
TECTB	10	112283400	112305035	0.073090211	PASS
TEDC1	14	105489855	105499575	-0.155273506	suppress_segment_too_large
TEDC2	16	2460080	2464963	0.053595371	PASS
TEDDM1	1	182398117	182400616	0.088103245	PASS
TEF	22	41367333	41399326	-0.740245994	PASS
TEFM	17	30897336	30906820	0.041294512	PASS
TEK	9	27109141	27230175	0.073960965	PASS
TEKT1	17	6789133	6831761	0.06854245	PASS
TEKT2	1	36084075	36088275	0.048749694	PASS
TEKT3	17	15303811	15341641	0.06854245	PASS
TEKT4	2	94871433	94876829	0.064122364	PASS
TEKT5	16	10627501	10694945	0.053595371	PASS
TELO2	16	1493344	1510457	0.053595371	PASS
TEN1	17	75979220	76000586	0.051798665	PASS
TEN1-CDK	17	75979231	76005999	0.051798665	PASS
TENM1	23	124375903	124963817	0.158844052	PASS
TENM2	5	167284799	168264157	0.165341871	suppress_segment_too_large
TENM3	4	182143987	182803024	-0.453876349	PASS
TENM4	11	78652831	79440948	0.064535884	PASS
TENT2	5	79612120	79686648	-0.393084436	PASS
TENT4A	5	6713007	6757048	0.073527871	PASS
TENT4B	16	50152918	50235310	0.411512417	PASS
TENT5A	6	81491439	81752774	-0.250122709	PASS
TENT5B	1	27005020	27012836	0.048749694	PASS
TENT5C	1	117605934	117628372	0.079255572	PASS
TENT5D	23	80335504	80445311	0.158844052	PASS
TEP1	14	20365667	20413429	0.053252507	PASS
TEPP	16	57976435	57988116	-0.423061015	PASS
TEPSIN	17	81228277	81239091	0.051798665	PASS
TERB1	16	66754976	66801620	-0.423061015	PASS
TERB2	15	44956702	44979229	-0.423772929	PASS
TERF1	8	73008864	73048122	0.182873287	suppress_segment_too_large
TERF2	16	69355561	69408571	-0.423061015	PASS
TERF2IP	16	75647786	75761872	-0.423061015	PASS
TERT	5	1253147	1295069	0.073527871	PASS
TES	7	116210493	116258783	-0.712149877	PASS
TESC	12	117038923	117099479	0.028722739	PASS
TESK1	9	35605305	35610041	0.073960965	PASS
TESK2	1	45343883	45491166	-0.736943052	PASS
TESMIN	11	68707440	68751564	0.064535884	PASS
TESPA1	12	54948018	54984746	-0.743220499	PASS
TET1	10	68560656	68694482	0.032351597	PASS
TET2	4	105145875	105279816	-0.677982248	PASS
TET3	2	73986404	74108176	-0.46122572	PASS
TEX10	9	100302077	100352939	0.073960965	PASS
TEX101	19	43401496	43418597	0.048917043	PASS

TEX11	23	70528940	70908731	0.158844052	PASS
TEX12	11	112167372	112172559	-0.431650509	PASS
TEX13A	23	105218929	105220674	0.158844052	PASS
TEX13B	23	107980864	107982370	0.158844052	PASS
TEX13C	23	125320120	125325214	0.158844052	PASS
TEX13D	23	124246249	124336862	0.158844052	PASS
TEX14	17	58556678	58692055	0.051798665	PASS
TEX15	8	30831544	30913003	-0.311940419	PASS
TEX19	17	82359247	82363776	0.051798665	PASS
TEX2	17	64147227	64263301	0.051798665	PASS
TEX22	14	105398579	105450106	-0.155273506	suppress_segment_too_large
TEX26	13	30932703	30975502	-0.398748891	PASS
TEX261	2	70985938	70994945	-0.46122572	PASS
TEX264	3	51662693	51704323	-0.727808231	PASS
TEX29	13	111316184	111344249	-0.426822582	PASS
TEX30	13	102765990	102773811	-0.426822582	PASS
TEX33	22	36991120	37007841	-0.740245994	PASS
TEX35	1	178513077	178548602	0.088103245	PASS
TEX36	10	125576522	125683144	0.073090211	PASS
TEX37	2	88524651	88529584	0.064122364	PASS
TEX38	1	46668855	46673594	-0.736943052	PASS
TEX43	5	126631722	126636287	-0.393084436	PASS
TEX44	2	231592901	231594283	0.011001208	PASS
TEX45	19	7492976	7508450	-0.071973357	PASS
TEX46	1	23010834	23015850	0.048749694	PASS
TEX47	7	88794106	88795721	-0.221864321	PASS
TEX48	9	114666434	114682066	0.073960965	PASS
TEX49	12	48727435	48765786	-0.743220499	PASS
TEX50	1	173635333	173637134	0.088103245	PASS
TEX51	2	126898864	126902097	-0.359440172	PASS
TEX9	15	56244009	56445997	-0.759380635	PASS
TF	3	133745956	133796640	0.06434429	PASS
TFAM	10	58385022	58399221	0.032351597	PASS
TFAP2A	6	10393186	10419659	0.069043418	PASS
TFAP2B	6	50818723	50847613	0.239805577	suppress_segment_too_large
TFAP2C	20	56629302	56639283	-0.172056771	suppress_segment_too_large
TFAP2D	6	50713828	50772988	0.239805577	suppress_segment_too_large
TFAP2E	1	35573370	35595328	0.048749694	PASS
TFAP4	16	4257186	4273075	0.053595371	PASS
TFB1M	6	155257509	155314493	0.033894706	PASS
TFB2M	1	246540560	246566324	-0.145670469	suppress_likely_unfocal_large_gain
TFCP2	12	51093663	51173134	-0.743220499	PASS
TFCP2L1	2	121216587	121285207	-0.359440172	PASS
TFDP1	13	113584721	113641470	-0.426822582	PASS
TFDP2	3	141944428	142149544	-0.889410434	PASS
TFDP3	23	133216669	133218348	0.158844052	PASS
TFE3	23	49028726	49043486	0.158844052	PASS
TFEB	6	41683978	41736259	0.028532667	PASS
TFEC	7	115935148	116159896	-0.712149877	PASS
TFF1	21	42362282	42366594	0.209983559	PASS
TFF2	21	42346357	42351128	0.209983559	PASS
TFF3	21	42311667	42315651	0.209983559	PASS
TFG	3	100709331	100748966	0.22470242	PASS
TFIP11	22	26491225	26512505	-0.740245994	PASS

TFPI	2	187464230	187565760	-0.030005025	PASS
TFPI2	7	93885396	93890991	-0.710463272	PASS
TFPT	19	54107013	54115675	0.142581352	PASS
TFR2	7	100620416	100642779	-0.710463272	PASS
TFRC	3	196027183	196082189	0.02267528	PASS
TG	8	132866958	133134903	0.493344802	suppress_segment_too_large
TGDS	13	94574051	94596257	-0.384313056	PASS
TGFA	2	70447280	70554193	-0.46122572	PASS
TGFB1	19	41301587	41353911	0.048917043	PASS
TGFB1I1	16	31471585	31477960	0.053595371	PASS
TGFB2	1	218346235	218444619	-0.204996646	suppress_segment_too_large
TGFB3	14	75958099	75982991	-0.155273506	suppress_segment_too_large
TGFBI	5	136028895	136063818	-0.393084436	PASS
TGFBR1	9	99104038	99154192	0.073960965	PASS
TGFBR2	3	30606502	30694142	0.06149513	PASS
TGFBR3	1	91680343	91906335	0.079255572	PASS
TGFBR3L	19	7916145	7919097	-0.071973357	PASS
TGFBRAP	2	105264391	105330034	-0.439572519	PASS
TGIF1	18	3411608	3459978	0.044197172	PASS
TGIF2	20	36573488	36593950	-0.172056771	suppress_segment_too_large
TGIF2-RA	20	36574553	36612384	-0.172056771	suppress_segment_too_large
TGIF2LX	23	89921882	89922883	0.158844052	PASS
TGM1	14	24249114	24264432	0.053252507	PASS
TGM2	20	38127387	38166578	-0.172056771	suppress_segment_too_large
TGM3	20	2296001	2341078	-0.172056771	suppress_segment_too_large
TGM4	3	44874608	44914990	-0.727808231	PASS
TGM5	15	43232595	43266857	-0.423772929	PASS
TGM6	20	2380908	2432753	-0.172056771	suppress_segment_too_large
TGM7	15	43276280	43302255	-0.423772929	PASS
TGOLN2	2	85318020	85328425	0.064122364	PASS
TGS1	8	55773142	55825448	0.182873287	suppress_segment_too_large
TH	11	2163929	2171877	-0.39835217	PASS
THADA	2	43230836	43596046	0.034263343	PASS
THAP1	8	42836674	42843325	0.182873287	suppress_segment_too_large
THAP10	15	70881342	70892785	-0.759380635	PASS
THAP11	16	67842082	67844195	-0.423061015	PASS
THAP12	11	76349956	76380971	0.064535884	PASS
THAP2	12	71663009	71680639	-0.578548701	PASS
THAP3	1	6624866	6635586	0.364796772	PASS
THAP5	7	108554543	108569750	-0.712149877	PASS
THAP6	4	75513946	75550473	-0.677982248	PASS
THAP7	22	20999104	21002196	-0.740245994	PASS
THAP8	19	36034985	36054762	0.044838622	PASS
THAP9	4	82900684	82919969	-0.677982248	PASS
THBD	20	23045633	23049741	-0.172056771	suppress_segment_too_large
THBS1	15	39581079	39599466	-0.423772929	PASS
THBS2	6	169215780	169254044	0.033894706	PASS
THBS3	1	155195588	155209051	0.088103245	PASS
THBS4	5	79991311	80083287	-0.393084436	PASS
THEG	19	361747	376670	-0.071973357	PASS
THEGL	4	56530609	56603507	0.115781418	suppress_segment_too_large
THEM4	1	151873584	151909808	0.079255572	PASS
THEM5	1	151847263	151853697	0.079255572	PASS
THEM6	8	142727203	142736927	0.699132336	PASS

THEMIS	6	127708072	127918631	-0.304168115	PASS
THEMIS2	1	27872543	27886685	0.048749694	PASS
THG1L	5	157731197	157741448	0.165341871	suppress_segment_too_large
THNSL1	10	25016658	25026664	0.075711544	PASS
THNSL2	2	88170295	88186636	0.064122364	PASS
THOC1	18	214520	268050	0.044197172	PASS
THOC2	23	123600561	123733056	0.158844052	PASS
THOC3	5	175917873	176034680	0.165341871	suppress_segment_too_large
THOC5	22	29505879	29555216	-0.740245994	PASS
THOC6	16	3024027	3027755	0.053595371	PASS
THOC7	3	63833870	63863903	-0.727808231	PASS
THOP1	19	2785460	2815807	-0.071973357	PASS
THPO	3	184371935	184381968	0.02267528	PASS
THRA	17	40058290	40093867	0.041294512	PASS
THRAP3	1	36224416	36305357	0.048749694	PASS
THRB	3	24117153	24495756	0.06149513	PASS
THRSP	11	78063861	78068351	0.064535884	PASS
THSD1	13	52377167	52416373	-0.384313056	PASS
THSD4	15	71096952	71783383	-0.759380635	PASS
THSD7A	7	11370357	11832198	-0.72421718	PASS
THSD7B	2	136765545	137677717	-0.359440172	PASS
THSD8	19	12802031	12813581	-0.069222905	PASS
THTPA	14	23555988	23560271	0.053252507	PASS
THUMPD1	16	20702816	20742084	0.053595371	PASS
THUMPD2	2	39736060	39779267	0.034263343	PASS
THUMPD3	3	9362842	9386791	0.06149513	PASS
THY1	11	119417378	119424985	-0.431650509	PASS
THYN1	11	134248279	134253370	0.105032849	PASS
TIA1	2	70209444	70248660	-0.46122572	PASS
TIAF1	17	29073521	29078857	0.041294512	PASS
TIAL1	10	119571802	119597029	0.073090211	PASS
TIAM1	21	31118416	31559977	0.209983559	PASS
TIAM2	6	154832697	155257723	0.033894706	PASS
TICAM1	19	4815932	4831704	-0.071973357	PASS
TICAM2	5	115578650	115602479	-0.393084436	PASS
TICRR	15	89575482	89631056	-0.759380635	PASS
TIE1	1	43300993	43323108	-0.736943052	PASS
TIFA	4	112274542	112285903	-0.677982248	PASS
TIFAB	5	135444218	135452399	-0.393084436	PASS
TIGAR	12	4307763	4354593	-0.015029783	PASS
TIGD1	2	232547970	232550592	0.011001208	PASS
TIGD2	4	89111500	89114899	-0.677982248	PASS
TIGD3	11	65354767	65357613	0.064535884	PASS
TIGD4	4	152769354	152779764	0.142431244	suppress_segment_too_large
TIGD5	8	143597835	143603224	0.699132336	PASS
TIGD6	5	149993118	150001167	-0.393084436	PASS
TIGD7	16	3298832	3305729	0.053595371	PASS
TIGIT	3	114276913	114310288	0.06434429	PASS
TIMD4	5	156919282	156963255	-0.393084436	PASS
TIMELESS	12	56416373	56449403	-0.743220499	PASS
TIMM10	11	57528463	57530803	0.27006553	suppress_segment_too_large
TIMM10B	11	6481447	6484679	-0.39835217	PASS
TIMM13	19	2425624	2427894	-0.071973357	PASS
TIMM17A	1	201955491	201970661	-0.204996646	suppress_segment_too_large

TIMM17B	23	48893447	48898143	0.158844052	PASS
TIMM21	18	74148511	74160530	-0.330515409	PASS
TIMM22	17	997117	1003671	0.06854245	PASS
TIMM23	10	45972449	46003734	-0.389033546	PASS
TIMM23B	10	49942033	49974850	-0.389033546	PASS
TIMM29	19	10928733	10933535	-0.107594294	PASS
TIMM44	19	7926718	7943920	-0.071973357	PASS
TIMM50	19	39480412	39493785	0.048917043	PASS
TIMM8A	23	101345659	101349196	0.158844052	PASS
TIMM8B	11	112084800	112086798	-0.431650509	PASS
TIMM9	14	58408494	58427614	0.053252507	PASS
TIMMDC1	3	119498532	119525090	0.06434429	PASS
TIMP1	23	47582313	47586789	0.158844052	PASS
TIMP2	17	78852977	78925387	0.051798665	PASS
TIMP3	22	32801701	32863043	-0.740245994	PASS
TIMP4	3	12153051	12159351	0.06149513	PASS
TINAG	6	54307859	54390152	0.239805577	suppress_segment_too_large
TINAGL1	1	31576485	31587686	0.048749694	PASS
TINF2	14	24239643	24242674	0.053252507	PASS
TIPARP	3	156673235	156706770	0.02267528	PASS
TIPIN	15	66336206	66386746	-0.759380635	PASS
TIPRL	1	168178933	168202114	0.088103245	PASS
TIRAP	11	126283065	126298845	-0.431650509	PASS
TJAP1	6	43477523	43506556	0.028532667	PASS
TJP1	15	29699367	29968865	-0.423772929	PASS
TJP2	9	69121264	69274615	0.073960965	PASS
TJP3	19	3708109	3750813	-0.071973357	PASS
TK1	17	78174075	78187233	0.051798665	PASS
TK2	16	66508003	66552544	-0.423061015	PASS
TKFC	11	61333210	61353295	0.064535884	PASS
TKT	3	53224707	53256052	-0.727808231	PASS
TKTL1	23	154295671	154330350	0.158844052	PASS
TKTL2	4	163471093	163473746	0.142431244	suppress_segment_too_large
TLCD1	17	28724348	28727935	0.041294512	PASS
TLCD2	17	1702790	1710438	0.06854245	PASS
TLDC1	16	84476421	84554033	-0.423061015	PASS
TLDC2	20	36876121	36894235	-0.172056771	suppress_segment_too_large
TLE1	9	81583683	81689305	0.073960965	PASS
TLE2	19	2997638	3047635	-0.071973357	PASS
TLE3	15	70047790	70098176	-0.759380635	PASS
TLE4	9	79571773	79726882	0.073960965	PASS
TLE6	19	2977446	2995184	-0.071973357	PASS
TLK1	2	170990823	171231314	0.033541467	PASS
TLK2	17	62458658	62615481	0.051798665	PASS
TLL1	4	165873258	166103895	0.142431244	suppress_segment_too_large
TLL2	10	96364606	96513918	-0.414937136	PASS
TLN1	9	35696948	35732395	0.073960965	PASS
TLN2	15	62390526	62844631	-0.759380635	PASS
TLNRD1	15	81000944	81005788	-0.759380635	PASS
TLR1	4	38790677	38856817	-0.753159364	PASS
TLR10	4	38772239	38782990	-0.753159364	PASS
TLR2	4	153684070	153705702	0.142431244	suppress_segment_too_large
TLR3	4	186069152	186088069	0.275137421	PASS
TLR4	9	117704175	117724730	0.073960965	PASS

TLR5	1	223109406	223143282	-0.204996646	suppress_segment_too_large
TLR6	4	38823715	38856817	-0.753159364	PASS
TLR7	23	12867083	12890380	0.158844052	PASS
TLR8	23	12906620	12923169	0.158844052	PASS
TLR9	3	52221080	52226163	-0.727808231	PASS
TLX1	10	101130505	101137789	-0.414937136	PASS
TLX2	2	74513463	74517147	-0.46122572	PASS
TLX3	5	171309284	171312134	0.165341871	suppress_segment_too_large
TM2D1	1	61681046	61725423	0.052232535	PASS
TM2D2	8	38988808	38996824	0.182873287	suppress_segment_too_large
TM2D3	15	101621444	101652391	-0.759380635	PASS
TM4SF1	3	149369022	149377865	0.02267528	PASS
TM4SF18	3	149318498	149334414	0.02267528	PASS
TM4SF19	3	196319342	196338503	0.02267528	PASS
TM4SF19-	3	196316082	196338373	0.02267528	PASS
TM4SF20	2	227362156	227381995	0.011001208	PASS
TM4SF4	3	149473974	149503281	0.02267528	PASS
TM4SF5	17	4771884	4783213	0.06854245	PASS
TM6SF1	15	83107407	83144854	-0.759380635	PASS
TM6SF2	19	19264364	19273391	-0.069222905	PASS
TM7SF2	11	65111845	65116384	0.064535884	PASS
TM7SF3	12	26973195	27014434	0.49032213	suppress_segment_too_large
TM9SF1	14	24189143	24195687	0.053252507	PASS
TM9SF2	13	99446311	99564006	-0.384313056	PASS
TM9SF3	10	96518109	96587452	-0.414937136	PASS
TM9SF4	20	32109506	32167258	-0.172056771	suppress_segment_too_large
TMA16	4	163494442	163520539	0.142431244	suppress_segment_too_large
TMA7	3	48440257	48444208	-0.727808231	PASS
TMBIM1	2	218274192	218292586	0.011001208	PASS
TMBIM4	12	66135846	66170072	-0.743220499	PASS
TMBIM6	12	49707725	49764934	-0.743220499	PASS
TMC1	9	72521608	72838230	0.073960965	PASS
TMC2	20	2536607	2641784	-0.172056771	suppress_segment_too_large
TMC3	15	81331217	81374213	-0.759380635	PASS
TMC4	19	54160108	54173250	0.142581352	PASS
TMC5	16	19410496	19499113	0.053595371	PASS
TMC6	17	78110458	78132407	0.051798665	PASS
TMC7	16	18983934	19063942	0.053595371	PASS
TMC8	17	78130770	78142968	0.051798665	PASS
TMCC1	3	129647792	129893606	0.06434429	PASS
TMCC2	1	205228176	205285632	-0.204996646	suppress_segment_too_large
TMCC3	12	94567124	94650562	0.028722739	PASS
TMCO1	1	165724293	165827755	0.088103245	PASS
TMCO2	1	40245947	40251691	0.048749694	PASS
TMCO3	13	113490995	113554590	-0.426822582	PASS
TMCO4	1	19682213	19799945	0.048749694	PASS
TMCO5A	15	37921939	37967724	-0.423772929	PASS
TMCO6	5	140639427	140645408	-0.393084436	PASS
TMED1	19	10832438	10836318	-0.107594294	PASS
TMED10	14	75131470	75176631	-0.155273506	suppress_segment_too_large
TMED2	12	123584531	123598577	0.028722739	PASS
TMED3	15	79311062	79427432	-0.759380635	PASS
TMED4	7	44577894	44582287	-0.72421718	PASS
TMED5	1	93149742	93180728	0.079255572	PASS

TMED6	16	69343248	69351809	-0.423061015	PASS
TMED7	5	115613508	115632992	-0.393084436	PASS
TMED7-TI	5	115578642	115626161	-0.393084436	PASS
TMED8	14	77335021	77377109	-0.155273506	suppress_segment_too_large
TMED9	5	177592158	177596124	0.165341871	suppress_segment_too_large
TMEFF1	9	100473113	100577636	0.073960965	PASS
TMEFF2	2	191949043	192195709	0.011001208	PASS
TMEM100	17	55719627	55732121	0.051798665	PASS
TMEM101	17	44011188	44023946	0.051798665	PASS
TMEM102	17	7435443	7437679	0.06854245	PASS
TMEM104	17	74776483	74839779	0.051798665	PASS
TMEM105	17	81311270	81330674	0.051798665	PASS
TMEM106	17	43211835	43220041	0.051798665	PASS
TMEM106	7	12211241	12243367	-0.72421718	PASS
TMEM106	12	47963569	47968878	-0.743220499	PASS
TMEM107	17	8173237	8176399	0.06854245	PASS
TMEM108	3	133038391	133397792	0.06434429	PASS
TMEM109	11	60913874	60923443	0.064535884	PASS
TMEM11	17	21197280	21214624	0.041294512	PASS
TMEM110	3	52833121	52897562	-0.727808231	PASS
TMEM114	16	8537605	8590193	0.053595371	PASS
TMEM115	3	50354749	50359610	-0.727808231	PASS
TMEM116	12	111931282	112013185	0.028722739	PASS
TMEM117	12	43835967	44389762	-0.46813528	PASS
TMEM119	12	108589846	108598320	0.028722739	PASS
TMEM120	7	75986837	75994659	-0.701511252	PASS
TMEM120	12	121712752	121783001	0.028722739	PASS
TMEM121	14	105526603	105530202	-0.155273506	suppress_segment_too_large
TMEM121	22	17116299	17121367	-0.740245994	PASS
TMEM123	11	102396332	102470384	0.32805343	suppress_segment_too_large
TMEM125	1	43269994	43274002	-0.736943052	PASS
TMEM126	11	85647967	85656547	0.064535884	PASS
TMEM126	11	85628573	85636539	0.064535884	PASS
TMEM127	2	96248516	96265994	0.064122364	PASS
TMEM128	4	4235542	4248212	-0.358623662	PASS
TMEM129	4	1715952	1721358	-0.358623662	PASS
TMEM130	7	98846488	98870771	-0.710463272	PASS
TMEM131	2	97756333	97995891	0.064122364	PASS
TMEM131	4	153466346	153636711	0.142431244	suppress_segment_too_large
TMEM132	11	60924463	60937159	0.064535884	PASS
TMEM132	12	125186836	125662377	0.028722739	PASS
TMEM132	12	128267403	128707915	0.028722739	PASS
TMEM132	12	129071725	129903666	0.028722739	PASS
TMEM132	17	34579487	34639318	0.041294512	PASS
TMEM134	11	67461710	67469272	0.064535884	PASS
TMEM135	11	87037844	87323758	0.064535884	PASS
TMEM136	11	120325129	120333682	-0.431650509	PASS
TMEM138	11	61362001	61369509	0.064535884	PASS
TMEM139	7	143279957	143288048	-0.712149877	PASS
TMEM140	7	135148072	135166215	-0.712149877	PASS
TMEM141	9	136791355	136793257	0.073960965	PASS
TMEM143	19	48332356	48364237	0.002743503	PASS
TMEM144	4	158201604	158255411	0.142431244	suppress_segment_too_large
TMEM145	19	42313325	42325062	0.048917043	PASS

TMEM147	19	35545595	35547526	0.044838622	PASS
TMEM14A	6	52671109	52686588	0.239805577	suppress_segment_too_large
TMEM14B	6	10747759	10852753	0.069043418	PASS
TMEM14C	6	10722915	10731129	0.069043418	PASS
TMEM150	2	85598548	85603196	0.064122364	PASS
TMEM150	19	55312801	55334048	0.142581352	PASS
TMEM150	4	82483170	82562357	-0.677982248	PASS
TMEM151	11	66291870	66296664	0.064535884	PASS
TMEM151	6	44270466	44307506	0.028532667	PASS
TMEM154	4	152618632	152680165	0.142431244	suppress_segment_too_large
TMEM155	4	121758930	121765427	0.142431244	suppress_segment_too_large
TMEM156	4	38966744	39032922	-0.753159364	PASS
TMEM158	3	45224466	45226278	-0.727808231	PASS
TMEM159	16	21158377	21180616	0.053595371	PASS
TMEM160	19	47045907	47048630	0.002743503	PASS
TMEM161	19	19119169	19138513	-0.069222905	PASS
TMEM161	5	88189633	88269476	-0.393084436	PASS
TMEM163	2	134455759	134719000	-0.359440172	PASS
TMEM164	23	110002631	110182734	0.158844052	PASS
TMEM165	4	55395957	55453397	0.115781418	suppress_segment_too_large
TMEM167	5	83052846	83077863	-0.393084436	PASS
TMEM167	1	109089803	109096934	0.079255572	PASS
TMEM168	7	112762382	112790592	-0.712149877	PASS
TMEM169	2	216081866	216102783	0.011001208	PASS
TMEM17	2	62500221	62511894	-0.46122572	PASS
TMEM170	16	75443054	75465497	-0.423061015	PASS
TMEM170	6	11538278	11583524	0.069043418	PASS
TMEM171	5	73120292	73131817	-0.393084436	PASS
TMEM173	5	139475534	139482935	-0.393084436	PASS
TMEM174	5	73173195	73175143	-0.393084436	PASS
TMEM175	4	932387	958656	-0.358623662	PASS
TMEM176	7	150800403	150805120	-0.712149877	PASS
TMEM176	7	150791285	150801360	-0.712149877	PASS
TMEM177	2	119679167	119686507	-0.359440172	PASS
TMEM178	2	39664982	39717963	0.034263343	PASS
TMEM178	7	141074232	141480380	-0.712149877	PASS
TMEM179	14	104474678	104605647	-0.155273506	suppress_segment_too_large
TMEM179	11	62787415	62790405	0.064535884	PASS
TMEM18	2	667335	677439	0.034263343	PASS
TMEM181	6	158536436	158635428	0.033894706	PASS
TMEM182	2	102736905	103019900	0.064122364	PASS
TMEM183	1	203007386	203024848	-0.204996646	suppress_segment_too_large
TMEM184	7	1542235	1560821	-0.72421718	PASS
TMEM184	22	38219291	38273034	-0.740245994	PASS
TMEM184	4	147617383	147672044	0.142431244	suppress_segment_too_large
TMEM185	23	149596556	149631912	0.158844052	PASS
TMEM185	2	120221278	120223408	-0.359440172	PASS
TMEM186	16	8780384	8797648	0.053595371	PASS
TMEM187	23	153972327	153983195	0.158844052	PASS
TMEM189	20	50118254	50153734	-0.172056771	suppress_segment_too_large
TMEM189	20	50081124	50153637	-0.172056771	suppress_segment_too_large
TMEM19	12	71686087	71705046	-0.578548701	PASS
TMEM190	19	55376836	55378244	0.142581352	PASS
TMEM191	22	18527802	18530573	-0.740245994	PASS

TMEM191	22	21466423	21471269	-0.740245994	PASS
TMEM192	4	165070608	165208549	0.142431244	suppress_segment_too_large
TMEM196	7	19719310	19773598	-0.72421718	PASS
TMEM198	2	219543663	219550595	0.011001208	PASS
TMEM199	17	28357581	28363683	0.041294512	PASS
TMEM200	6	130365734	130443063	-0.304168115	PASS
TMEM200	1	29119428	29123935	0.048749694	PASS
TMEM200	18	5882072	5895955	0.044197172	PASS
TMEM201	1	9588922	9614873	0.364796772	PASS
TMEM202	15	72398273	72408029	-0.759380635	PASS
TMEM203	9	137204082	137205638	0.073960965	PASS
TMEM204	16	1528688	1555580	0.053595371	PASS
TMEM205	19	11342776	11346518	-0.107594294	PASS
TMEM206	1	212363931	212414901	-0.204996646	suppress_segment_too_large
TMEM207	3	190428655	190449876	0.02267528	PASS
TMEM208	16	67227103	67229278	-0.423061015	PASS
TMEM209	7	130164715	130207770	-0.712149877	PASS
TMEM210	9	137170858	137172409	0.073960965	PASS
TMEM211	22	24934954	24946695	-0.740245994	PASS
TMEM212	3	171843349	171938715	0.02267528	PASS
TMEM213	7	138797952	138838101	-0.712149877	PASS
TMEM214	2	27032910	27041695	0.034263343	PASS
TMEM215	9	32783499	32787399	0.073960965	PASS
TMEM216	11	61391687	61398863	0.064535884	PASS
TMEM217	6	37212180	37258155	0.028532667	PASS
TMEM218	11	125096545	125111763	-0.431650509	PASS
TMEM219	16	29940885	29973052	0.053595371	PASS
TMEM220	17	10699015	10730316	0.06854245	PASS
TMEM221	19	17435509	17448567	-0.069222905	PASS
TMEM222	1	27322145	27336400	0.048749694	PASS
TMEM223	11	62771629	62792021	0.064535884	PASS
TMEM225	11	123882926	123885642	-0.431650509	PASS
TMEM225	7	99598066	99610813	-0.710463272	PASS
TMEM229	7	124030916	124033023	-0.712149877	PASS
TMEM229	14	67447084	67533739	0.053252507	PASS
TMEM230	20	5068232	5113103	-0.172056771	suppress_segment_too_large
TMEM231	16	75536744	75556286	-0.423061015	PASS
TMEM232	5	110289233	110738956	-0.393084436	PASS
TMEM233	12	119593459	119643066	0.028722739	PASS
TMEM234	1	32214472	32222359	0.048749694	PASS
TMEM235	17	78231310	78240987	0.051798665	PASS
TMEM236	10	17752252	17800868	0.075711544	PASS
TMEM237	2	201620184	201643570	0.011001208	PASS
TMEM238	19	55379245	55384598	0.142581352	PASS
TMEM239	20	2816302	2820284	-0.172056771	suppress_segment_too_large
TMEM240	1	1535174	1540453	-0.358281697	PASS
TMEM241	18	23197144	23437961	-0.330515409	PASS
TMEM242	6	157289386	157323601	0.033894706	PASS
TMEM243	7	87196160	87220587	-0.221864321	PASS
TMEM244	6	129831244	129861547	-0.304168115	PASS
TMEM245	9	109015152	109119945	0.073960965	PASS
TMEM246	9	101473171	101533537	0.073960965	PASS
TMEM247	2	46479565	46484425	0.034263343	PASS
TMEM248	7	66921225	66958551	-0.701511252	PASS

TMEM249	8	144352219	144354914	0.699132336	PASS
TMEM25	11	118531041	118547280	-0.431650509	PASS
TMEM250	9	136114581	136118863	0.073960965	PASS
TMEM251	14	93184951	93187089	-0.155273506	suppress_segment_too_large
TMEM252	9	68536580	68540867	0.073960965	PASS
TMEM253	14	21098937	21103724	0.053252507	PASS
TMEM254	10	80078646	80092557	0.032351597	PASS
TMEM255	23	120258650	120311556	0.158844052	PASS
TMEM255	13	113759240	113816995	-0.426822582	PASS
TMEM256	17	7402975	7404137	0.06854245	PASS
TMEM256	17	7389734	7404097	0.06854245	PASS
TMEM258	11	61768501	61792802	0.064535884	PASS
TMEM259	19	1009648	1021179	-0.071973357	PASS
TMEM26	10	61406643	61453450	0.032351597	PASS
TMEM260	14	56488354	56650606	0.053252507	PASS
TMEM262	11	65084979	65089375	0.064535884	PASS
TMEM263	12	106955719	106978778	0.028722739	PASS
TMEM265	16	30740381	30744281	0.053595371	PASS
TMEM266	15	76059837	76229121	-0.759380635	PASS
TMEM267	5	43444252	43483893	-0.284712224	PASS
TMEM268	9	114611206	114646422	0.073960965	PASS
TMEM269	1	42785007	42816619	-0.736943052	PASS
TMEM270	7	73861159	73865893	-0.701511252	PASS
TMEM273	10	49154725	49188585	-0.389033546	PASS
TMEM30A	6	75252924	75284968	-0.250122709	PASS
TMEM30E	14	61277370	61281840	0.053252507	PASS
TMEM31	23	103710909	103714028	0.158844052	PASS
TMEM33	4	41935120	41960572	-0.753159364	PASS
TMEM35A	23	101078720	101096364	0.158844052	PASS
TMEM35E	1	34981535	34985353	0.048749694	PASS
TMEM37	2	119429901	119438520	-0.359440172	PASS
TMEM38A	19	16661127	16690029	-0.069222905	PASS
TMEM38E	9	105694544	105776612	0.073960965	PASS
TMEM39A	3	119429500	119468830	0.06434429	PASS
TMEM39E	1	32072031	32102866	0.048749694	PASS
TMEM40	3	12733525	12769457	0.06149513	PASS
TMEM41A	3	185476496	185499057	0.02267528	PASS
TMEM41E	11	9280654	9314780	-0.39835217	PASS
TMEM42	3	44861869	44865670	-0.727808231	PASS
TMEM43	3	14124940	14143679	0.06149513	PASS
TMEM44	3	194587673	194633689	0.02267528	PASS
TMEM45A	3	100492619	100577444	0.22470242	PASS
TMEM45E	11	129815819	129860003	-0.431650509	PASS
TMEM47	23	34627064	34657288	0.158844052	PASS
TMEM50A	1	25337917	25362361	0.048749694	PASS
TMEM50E	21	33432485	33480011	0.209983559	PASS
TMEM51	1	15152532	15220480	0.048749694	PASS
TMEM52	1	1917590	1919273	-0.358281697	PASS
TMEM52E	12	10170542	10191801	0.505438545	PASS
TMEM53	1	44635238	44674555	-0.736943052	PASS
TMEM54	1	32894594	32901438	0.048749694	PASS
TMEM56	1	95117338	95197607	0.079255572	PASS
TMEM56-I	1	95117923	95247225	0.079255572	PASS
TMEM59	1	54026681	54053504	-0.736943052	PASS

TMEM59L	19	18607430	18621039	-0.069222905	PASS
TMEM60	7	77793728	77798580	-0.701511252	PASS
TMEM61	1	54980792	54992293	-0.736943052	PASS
TMEM62	15	43123279	43185146	-0.423772929	PASS
TMEM63A	1	225845536	225882369	-0.204996646	suppress_segment_too_large
TMEM63B	6	44126914	44155519	0.028532667	PASS
TMEM63C	14	77116568	77259495	-0.155273506	suppress_segment_too_large
TMEM64	8	90621995	90791632	0.617295349	suppress_segment_too_large
TMEM65	8	124306189	124372692	0.493344802	suppress_segment_too_large
TMEM67	8	93754844	93819234	0.355469066	suppress_segment_too_large
TMEM68	8	55696424	55773407	0.182873287	suppress_segment_too_large
TMEM69	1	45687214	45694443	-0.736943052	PASS
TMEM70	8	73972437	73982783	0.182873287	suppress_segment_too_large
TMEM71	8	132685007	132760712	0.493344802	suppress_segment_too_large
TMEM72	10	44911200	44937002	-0.389033546	PASS
TMEM74	8	108606850	108787615	0.70944438	suppress_segment_too_large
TMEM74B	20	1180561	1185415	-0.172056771	suppress_segment_too_large
TMEM79	1	156282935	156293185	0.088103245	PASS
TMEM80	11	695428	705028	-0.39835217	PASS
TMEM81	1	205083129	205084460	-0.204996646	suppress_segment_too_large
TMEM82	1	15742422	15747982	0.048749694	PASS
TMEM86A	11	18693122	18704785	-0.39835217	PASS
TMEM86B	19	55226639	55229264	0.142581352	PASS
TMEM87A	15	42210452	42273663	-0.423772929	PASS
TMEM87B	2	112055223	112119318	0.040971718	PASS
TMEM88	17	7855065	7856099	0.06854245	PASS
TMEM88B	1	1426128	1427787	-0.358281697	PASS
TMEM89	3	48620759	48621855	-0.727808231	PASS
TMEM8A	16	370773	387113	0.053595371	PASS
TMEM8B	9	35814451	35865518	0.073960965	PASS
TMEM9	1	201134772	201171574	-0.204996646	suppress_segment_too_large
TMEM91	19	41350911	41384083	0.048917043	PASS
TMEM92	17	50271406	50281485	0.051798665	PASS
TMEM94	17	75441159	75500090	0.051798665	PASS
TMEM95	17	7355123	7357219	0.06854245	PASS
TMEM97	17	28319095	28328685	0.041294512	PASS
TMEM98	17	32927910	32945106	0.041294512	PASS
TMEM99	17	40819106	40836274	0.041294512	PASS
TMEM9B	11	8947294	8965011	-0.39835217	PASS
TMF1	3	69019827	69052339	-0.727808231	PASS
TMIE	3	46694528	46710886	-0.727808231	PASS
TMIGD1	17	30316333	30334059	0.041294512	PASS
TMIGD2	19	4292232	4302431	-0.071973357	PASS
TMIGD3	1	111483348	111563962	0.079255572	PASS
TMLHE	23	155490115	155669944	0.158844052	PASS
TMOD1	9	97501180	97601748	0.073960965	PASS
TMOD2	15	51751561	51816368	-0.423772929	PASS
TMOD3	15	51829628	51947295	-0.423772929	PASS
TMOD4	1	151169986	151176284	0.079255572	PASS
TMPO	12	98515512	98550379	0.028722739	PASS
TMPPE	3	33090421	33096801	0.06149513	PASS
TMPRSS1	4	67909385	67964140	0.115781418	suppress_segment_too_large
TMPRSS1	4	68226653	68245720	0.115781418	suppress_segment_too_large
TMPRSS1	4	67820876	67884032	0.115781418	suppress_segment_too_large

TMPRSS1	4	68447449	68497604	0.115781418	suppress_segment_too_large
TMPRSS1	4	68053198	68129880	0.115781418	suppress_segment_too_large
TMPRSS1	12	50842920	50887884	-0.743220499	PASS
TMPRSS1	11	117900643	117929459	-0.431650509	PASS
TMPRSS1	21	18269116	18485879	0.758930684	suppress_segment_too_large
TMPRSS2	21	41464551	41531116	0.209983559	PASS
TMPRSS3	21	42371837	42396846	0.209983559	PASS
TMPRSS4	11	118077012	118121890	-0.431650509	PASS
TMPRSS5	11	113687546	113706373	-0.431650509	PASS
TMPRSS6	22	37065436	37109713	-0.740245994	PASS
TMPRSS7	3	112034843	112081269	0.06434429	PASS
TMPRSS9	19	2360238	2426239	-0.071973357	PASS
TMSB10	2	84905625	84906675	0.064122364	PASS
TMSB15A	23	102513676	102516784	0.158844052	PASS
TMSB15B	23	103918896	104076212	0.158844052	PASS
TMSB4X	23	12975108	12977227	0.158844052	PASS
TMTC1	12	29500840	29784759	0.49032213	suppress_segment_too_large
TMTC2	12	82686880	83134870	0.271127429	suppress_segment_too_large
TMTC3	12	88142296	88199887	0.271127429	suppress_segment_too_large
TMTC4	13	100603927	100675093	-0.384313056	PASS
TMUB1	7	151081080	151083546	-0.712149877	PASS
TMUB2	17	44186970	44191731	0.051798665	PASS
TMX1	14	51240162	51257546	0.053252507	PASS
TMX2	11	57712600	57740973	0.27006553	suppress_segment_too_large
TMX2-CT	11	57712605	57791586	0.27006553	suppress_segment_too_large
TMX3	18	68673688	68715298	-0.330515409	PASS
TMX4	20	7977348	8019829	-0.172056771	suppress_segment_too_large
TNC	9	115019578	115118257	0.073960965	PASS
TNF	6	31575567	31578336	0.028532667	PASS
TNFAIP1	17	28335602	28347009	0.041294512	PASS
TNFAIP2	14	103123442	103137439	-0.155273506	suppress_segment_too_large
TNFAIP3	6	137867188	137883312	0.033894706	PASS
TNFAIP6	2	151357592	151380048	-0.30549516	PASS
TNFAIP8	5	119268692	119399688	-0.393084436	PASS
TNFAIP8L	19	4639518	4655568	-0.071973357	PASS
TNFAIP8L	1	151156629	151159749	0.079255572	PASS
TNFAIP8L	15	51056598	51105276	-0.423772929	PASS
TNFRSF1(	8	23190452	23225126	-0.311940419	PASS
TNFRSF1(	8	23020133	23069179	-0.311940419	PASS
TNFRSF1(	8	23102590	23117437	-0.311940419	PASS
TNFRSF1(	8	23135588	23164030	-0.311940419	PASS
TNFRSF11	18	62325287	62391292	-0.330515409	PASS
TNFRSF11	8	118923557	118952200	0.493344802	suppress_segment_too_large
TNFRSF12	16	3018445	3022383	0.053595371	PASS
TNFRSF13	17	16929816	16972118	0.06854245	PASS
TNFRSF13	22	41922023	41926818	-0.740245994	PASS
TNFRSF14	1	2555639	2565382	-0.358281697	PASS
TNFRSF17	16	11965107	11968068	0.053595371	PASS
TNFRSF18	1	1203508	1206691	-0.358281697	PASS
TNFRSF19	13	23570370	23676104	-0.398748891	PASS
TNFRSF1A	12	6328757	6342114	-0.015029783	PASS
TNFRSF1B	1	12167003	12209228	0.048749694	PASS
TNFRSF21	6	47231532	47309905	0.239805577	suppress_segment_too_large
TNFRSF25	1	6460786	6466195	0.364796772	PASS

TNFRSF4	1	1211326	1214138	-0.358281697	PASS
TNFRSF6I	20	63696651	63698684	-0.172056771	suppress_segment_too_large
TNFRSF8	1	12063377	12144207	0.048749694	PASS
TNFRSF9	1	7915894	7943165	0.364796772	PASS
TNFSF10	3	172505508	172523507	0.02267528	PASS
TNFSF11	13	42562736	42608013	-0.398748891	PASS
TNFSF12	17	7548891	7557890	0.06854245	PASS
TNFSF12-´	17	7549099	7561601	0.06854245	PASS
TNFSF13	17	7558292	7561608	0.06854245	PASS
TNFSF13E	13	108251240	108308484	-0.426822582	PASS
TNFSF14	19	6661253	6670588	-0.071973357	PASS
TNFSF15	9	114784635	114806126	0.073960965	PASS
TNFSF18	1	173039960	173050963	0.088103245	PASS
TNFSF4	1	173183734	173207313	0.088103245	PASS
TNFSF8	9	114893343	114930595	0.073960965	PASS
TNFSF9	19	6530999	6535928	-0.071973357	PASS
TNIK	3	171061339	171460408	0.02267528	PASS
TNIP1	5	151029945	151093577	-0.393084436	PASS
TNIP2	4	2741648	2756376	-0.358623662	PASS
TNIP3	4	121131408	121227466	0.142431244	suppress_segment_too_large
TNK1	17	7380534	7389774	0.06854245	PASS
TNK2	3	195863364	195911945	0.02267528	PASS
TNKS	8	9555914	9782346	-0.311940419	PASS
TNKS1BP	11	57299638	57324952	0.27006553	suppress_segment_too_large
TNKS2	10	91798312	91865276	-0.414937136	PASS
TNMD	23	100584802	100599885	0.158844052	PASS
TNN	1	175067858	175148066	0.088103245	PASS
TNNC1	3	52451102	52454070	-0.727808231	PASS
TNNC2	20	45823214	45833745	-0.172056771	suppress_segment_too_large
TNNI1	1	201403768	201429866	-0.204996646	suppress_segment_too_large
TNNI2	11	1838989	1841680	-0.39835217	PASS
TNNI3	19	55151767	55157773	0.142581352	PASS
TNNI3K	1	74235401	74544428	0.052232535	PASS
TNNT1	19	55132794	55149354	0.142581352	PASS
TNNT2	1	201359008	201377762	-0.204996646	suppress_segment_too_large
TNNT3	11	1919562	1938706	-0.39835217	PASS
TNP1	2	216859458	216860064	0.011001208	PASS
TNP2	16	11267748	11269533	0.053595371	PASS
TNPO1	5	72816312	72916733	-0.393084436	PASS
TNPO2	19	12699194	12724011	-0.069222905	PASS
TNPO3	7	128954180	129055173	-0.712149877	PASS
TNR	1	175315194	175743770	0.088103245	PASS
TNRC18	7	5306790	5425414	-0.72421718	PASS
TNRC6A	16	24610209	24827632	0.053595371	PASS
TNRC6B	22	40044817	40335808	-0.740245994	PASS
TNRC6C	17	77959240	78108835	0.051798665	PASS
TNS1	2	217799588	218033982	0.011001208	PASS
TNS2	12	53046969	53064372	-0.743220499	PASS
TNS3	7	47275154	47582558	-0.72421718	PASS
TNS4	17	40475828	40501597	0.041294512	PASS
TNXB	6	32041153	32115334	0.028532667	PASS
TOB1	17	50862223	50867978	0.051798665	PASS
TOB2	22	41433492	41447023	-0.740245994	PASS
TOE1	1	45339670	45343975	-0.736943052	PASS

TOGARAM	14	44962208	45074431	0.053252507	PASS
TOGARAM	2	28956611	29061373	0.034263343	PASS
TOLLIP	11	1274371	1309654	-0.39835217	PASS
TOM1	22	35299275	35347994	-0.740245994	PASS
TOM1L1	17	54899387	54961956	0.051798665	PASS
TOM1L2	17	17843511	17972422	0.06854245	PASS
TOMM20	1	235109336	235128936	-0.204996646	suppress_segment_too_large
TOMM20L	14	58395916	58408701	0.053252507	PASS
TOMM22	22	38681948	38685421	-0.740245994	PASS
TOMM34	20	44942130	44960486	-0.172056771	suppress_segment_too_large
TOMM40	19	44890569	44903689	0.002743503	PASS
TOMM40L	1	161225939	161230744	0.088103245	PASS
TOMM5	9	37582646	37592642	0.073960965	PASS
TOMM6	6	41787662	41789898	0.028532667	PASS
TOMM7	7	22812628	22822852	-0.72421718	PASS
TOMM70	3	100363431	100401398	0.22470242	PASS
TONSL	8	144428775	144444444	0.699132336	PASS
TOP1	20	41028818	41124487	-0.172056771	suppress_segment_too_large
TOP1MT	8	143304384	143359979	0.699132336	PASS
TOP2A	17	40388516	40417950	0.041294512	PASS
TOP2B	3	25597905	25664907	0.06149513	PASS
TOP3A	17	18271428	18315007	0.06854245	PASS
TOP3B	22	21957025	21982816	-0.740245994	PASS
TOPAZ1	3	44241886	44332098	-0.727808231	PASS
TOPBP1	3	133598175	133662380	0.06434429	PASS
TOPORS	9	32540544	32552553	0.073960965	PASS
TOR1A	9	129812944	129824134	0.073960965	PASS
TOR1AIP1	1	179882042	179925000	0.088103245	PASS
TOR1AIP2	1	179839967	179877803	0.088103245	PASS
TOR1B	9	129803153	129811281	0.073960965	PASS
TOR2A	9	127731524	127735317	0.073960965	PASS
TOR3A	1	179081377	179098023	0.088103245	PASS
TOR4A	9	137277749	137282641	0.073960965	PASS
TOX	8	58805418	59119208	0.182873287	suppress_segment_too_large
TOX2	20	43914864	44069616	-0.172056771	suppress_segment_too_large
TOX3	16	52438005	52547802	-0.423061015	PASS
TOX4	14	21476597	21499175	0.053252507	PASS
TP53	17	7661779	7687550	0.06854245	PASS
TP53AIP1	11	128934731	128943399	-0.431650509	PASS
TP53BP1	15	43403061	43510728	-0.423772929	PASS
TP53BP2	1	223779899	223845972	-0.204996646	suppress_segment_too_large
TP53I11	11	44885903	44951306	0.059795455	PASS
TP53I13	17	29566052	29573157	0.041294512	PASS
TP53I3	2	24077433	24085861	0.034263343	PASS
TP53INP1	8	94925972	94949411	0.355469066	suppress_segment_too_large
TP53INP2	20	34704290	34713439	-0.172056771	suppress_segment_too_large
TP53RK	20	46684365	46689779	-0.172056771	suppress_segment_too_large
TP53TG3D	16	32252719	32255922	0.053595371	PASS
TP53TG5	20	45372563	45407889	-0.172056771	suppress_segment_too_large
TP63	3	189631416	189897279	0.02267528	PASS
TP73	1	3652520	3736201	-0.358281697	PASS
TPBG	6	82363206	82370828	-0.250122709	PASS
TPBGL	11	75240905	75243697	0.064535884	PASS
TPCN1	12	113221050	113298585	0.028722739	PASS

TPCN2	11	69048897	69162440	0.064535884	PASS
TPD52	8	80034745	80231232	0.617295349	suppress_segment_too_large
TPD52L1	6	125119049	125264407	-0.304168115	PASS
TPD52L2	20	63865228	63891545	-0.172056771	suppress_segment_too_large
TPD52L3	9	6328375	6331900	0.073960965	PASS
TPGS1	19	507497	519654	-0.071973357	PASS
TPGS2	18	36777647	36829216	-0.330515409	PASS
TPH1	11	18017564	18042426	-0.39835217	PASS
TPH2	12	71938846	72186618	-0.578548701	PASS
TPI1	12	6867119	6870948	-0.015029783	PASS
TPK1	7	144451941	144836395	-0.712149877	PASS
TPM1	15	63042632	63071915	-0.759380635	PASS
TPM2	9	35681992	35690121	0.073960965	PASS
TPM3	1	154155304	154194648	0.088103245	PASS
TPM4	19	16067021	16103005	-0.069222905	PASS
TPMT	6	18128311	18155074	0.069043418	PASS
TPO	2	1374066	1543711	0.034263343	PASS
TPP1	11	6612763	6619485	-0.39835217	PASS
TPP2	13	102597003	102679958	-0.384313056	PASS
TPPP	5	659862	693395	0.073527871	PASS
TPPP2	14	21024109	21036276	0.053252507	PASS
TPPP3	16	67389809	67393535	-0.423061015	PASS
TPR	1	186311652	186375693	0.088103245	PASS
TPRA1	3	127571266	127598267	0.06434429	PASS
TPRG1	3	188947214	189325304	0.02267528	PASS
TPRG1L	1	3625002	3630127	-0.358281697	PASS
TPRKB	2	73729104	73737400	-0.46122572	PASS
TPRN	9	137191617	137204193	0.073960965	PASS
TPRX1	19	47801243	47819051	0.002743503	PASS
TPSAB1	16	1240696	1242554	0.053595371	PASS
TPSB2	16	1227272	1230184	0.053595371	PASS
TPSD1	16	1256059	1258998	0.053595371	PASS
TPSG1	16	1221651	1225257	0.053595371	PASS
TPST1	7	66205199	66420543	-0.701511252	PASS
TPST2	22	26521983	26596717	-0.740245994	PASS
TPT1	13	45333471	45341370	-0.398748891	PASS
TPTE	21	10521553	10606140	0.220071762	PASS
TPTE2	13	19422877	19536762	-0.398748891	PASS
TPTEP2-C	22	38291918	38398522	-0.740245994	PASS
TPX2	20	31739271	31801805	-0.172056771	suppress_segment_too_large
TRA2A	7	23504780	23532041	-0.72421718	PASS
TRA2B	3	185915906	185938136	0.02267528	PASS
TRABD	22	50185915	50199598	-0.953096644	PASS
TRABD2A	2	84821650	84907008	0.064122364	PASS
TRABD2B	1	47760528	47996895	-0.736943052	PASS
TRADD	16	67154180	67160298	-0.423061015	PASS
TRAF1	9	120902393	120929173	0.073960965	PASS
TRAF2	9	136881912	136926607	0.073960965	PASS
TRAF3	14	102777476	102911500	-0.155273506	suppress_segment_too_large
TRAF3IP1	2	238320441	238400900	0.011001208	PASS
TRAF3IP2	6	111556454	111606278	-0.355603029	PASS
TRAF3IP3	1	209756032	209782320	-0.204996646	suppress_segment_too_large
TRAF4	17	28743984	28750958	0.041294512	PASS
TRAF5	1	211326615	211374946	-0.204996646	suppress_segment_too_large

TRAF6	11	36487027	36510272	-0.359426047	PASS
TRAF7	16	2155698	2178129	0.053595371	PASS
TRAFD1	12	112125501	112153609	0.028722739	PASS
TRAIP	3	49828599	49856574	-0.727808231	PASS
TRAK1	3	42013802	42225889	-0.727808231	PASS
TRAK2	2	201377207	201451579	0.011001208	PASS
TRAM1	8	70573442	70608387	0.182873287	suppress_segment_too_large
TRAM1L1	4	117083554	117085576	0.281939692	PASS
TRAM2	6	52497402	52576915	0.239805577	suppress_segment_too_large
TRANK1	3	36826820	36945098	-0.727808231	PASS
TRAP1	16	3651639	3717597	0.053595371	PASS
TRAPPC1	17	7930345	7932123	0.06854245	PASS
TRAPPC10	21	44012319	44106552	0.209983559	PASS
TRAPPC1	4	183659267	183713594	-0.453876349	PASS
TRAPPC12	2	3379675	3485094	0.034263343	PASS
TRAPPC13	5	65624716	65666233	-0.393084436	PASS
TRAPPC2	23	13712244	13734635	0.158844052	PASS
TRAPPC2L	19	57363511	57365353	0.142581352	PASS
TRAPPC2L	16	88856220	88862686	-0.423061015	PASS
TRAPPC3	1	36136570	36156053	0.048749694	PASS
TRAPPC3L	6	116494989	116545610	-0.355603029	PASS
TRAPPC4	11	119018432	119025454	-0.431650509	PASS
TRAPPC5	19	7680843	7687703	-0.071973357	PASS
TRAPPC6A	19	45162928	45178237	0.002743503	PASS
TRAPPC6B	14	39147811	39170532	0.053252507	PASS
TRAPPC8	18	31829173	31953136	-0.330515409	PASS
TRAPPC9	8	139727725	140458579	0.493344802	suppress_segment_too_large
TRARG1	17	1279663	1300987	0.06854245	PASS
TRAT1	3	108822698	108855005	0.22470242	PASS
TRDMT1	10	17142254	17202054	0.075711544	PASS
TRDN	6	123216339	123637093	-1.845658544	PASS
TREH	11	118657316	118679690	-0.431650509	PASS
TREM1	6	41267926	41286719	0.028532667	PASS
TREM2	6	41158506	41163186	0.028532667	PASS
TREML1	6	41149342	41154337	0.028532667	PASS
TREML2	6	41190277	41201194	0.028532667	PASS
TREML4	6	41228324	41238882	0.028532667	PASS
TRERF1	6	42224931	42452051	0.028532667	PASS
TREX1	3	48465811	48467645	-0.727808231	PASS
TREX2	23	153444720	153470587	0.158844052	PASS
TRH	3	129974305	129977938	0.06434429	PASS
TRHDE	12	72087266	72670757	0.271127429	suppress_segment_too_large
TRHR	8	109086621	109119584	0.70944438	suppress_segment_too_large
TRIAP1	12	120443961	120446412	0.028722739	PASS
TRIB1	8	125430321	125438405	0.493344802	suppress_segment_too_large
TRIB2	2	12716889	12742734	0.034263343	PASS
TRIB3	20	362835	397559	-0.172056771	suppress_segment_too_large
TRIL	7	28953358	28958292	-0.72421718	PASS
TRIM10	6	30151945	30160934	0.069043418	PASS
TRIM11	1	228393673	228406840	-0.204996646	suppress_segment_too_large
TRIM13	13	49995888	50020481	-0.384313056	PASS
TRIM14	9	98069275	98119212	0.073960965	PASS
TRIM15	6	30163206	30172696	0.069043418	PASS
TRIM16	17	15627960	15684311	0.06854245	PASS

TRIM16L	17	18697998	18736118	0.06854245	PASS
TRIM17	1	228407940	228416861	-0.204996646	suppress_segment_too_large
TRIM2	4	153152342	153339320	0.142431244	suppress_segment_too_large
TRIM21	11	4384897	4393696	-0.39835217	PASS
TRIM22	11	5689689	5737089	-0.39835217	PASS
TRIM23	5	65589680	65625975	-0.393084436	PASS
TRIM24	7	138460334	138589993	-0.712149877	PASS
TRIM25	17	56836387	56914080	0.051798665	PASS
TRIM26	6	30184455	30213427	0.069043418	PASS
TRIM27	6	28903002	28923989	0.069043418	PASS
TRIM28	19	58544091	58550722	0.142581352	PASS
TRIM29	11	120111275	120185529	-0.431650509	PASS
TRIM3	11	6448613	6474459	-0.39835217	PASS
TRIM31	6	30102897	30113106	0.069043418	PASS
TRIM32	9	116687302	116701300	0.073960965	PASS
TRIM33	1	114392777	114511160	0.079255572	PASS
TRIM34	11	5619764	5644398	-0.39835217	PASS
TRIM35	8	27284887	27311319	-0.311940419	PASS
TRIM36	5	115124762	115180546	-0.393084436	PASS
TRIM37	17	58982638	59106921	0.051798665	PASS
TRIM38	6	25962802	25991226	0.069043418	PASS
TRIM39	6	30326479	30343729	0.069043418	PASS
TRIM39-R	6	30328907	30346854	0.069043418	PASS
TRIM4	7	99876958	99919600	-0.710463272	PASS
TRIM40	6	30136108	30148735	0.069043418	PASS
TRIM41	5	181222499	181235809	0.165341871	suppress_segment_too_large
TRIM42	3	140678039	140701150	-0.889410434	PASS
TRIM43	2	95592018	95599778	0.064122364	PASS
TRIM43B	2	95476967	95484731	0.064122364	PASS
TRIM44	11	35662805	35818007	-0.359426047	PASS
TRIM45	1	117111060	117122587	0.079255572	PASS
TRIM46	1	155173787	155184971	0.088103245	PASS
TRIM47	17	75874161	75878575	0.051798665	PASS
TRIM48	11	55262182	55271119	0.27006553	suppress_segment_too_large
TRIM49	11	89797655	89808575	0.064535884	PASS
TRIM49B	11	49027501	49038451	-0.210195174	PASS
TRIM49C	11	90031106	90042025	0.064535884	PASS
TRIM5	11	5663557	5938619	-0.39835217	PASS
TRIM50	7	73312539	73328082	-0.701511252	PASS
TRIM51	11	55883297	55891810	0.27006553	suppress_segment_too_large
TRIM51GI	11	48975324	48983826	-0.210195174	PASS
TRIM52	5	181254417	181261139	0.165341871	suppress_segment_too_large
TRIM54	2	27282392	27307439	0.034263343	PASS
TRIM55	8	66126896	66175487	0.182873287	suppress_segment_too_large
TRIM56	7	101085439	101097967	-0.712149877	PASS
TRIM58	1	247857199	247878205	-0.145670469	suppress_likely_unfocal_large_gain
TRIM59	3	160432445	160485773	0.02267528	PASS
TRIM6	11	5596109	5612958	-0.39835217	PASS
TRIM6-TR	11	5596725	5644398	-0.39835217	PASS
TRIM60	4	165016458	165041744	0.142431244	suppress_segment_too_large
TRIM61	4	164954446	164977668	0.142431244	suppress_segment_too_large
TRIM62	1	33145402	33182059	0.048749694	PASS
TRIM63	1	26051304	26068436	0.048749694	PASS
TRIM64	11	89968502	89975228	0.064535884	PASS

TRIM64B	11	89869282	89876017	0.064535884	PASS
TRIM64C	11	49053714	49059112	-0.210195174	PASS
TRIM65	17	75880335	75897003	0.051798665	PASS
TRIM66	11	8612037	8682694	-0.39835217	PASS
TRIM67	1	231162112	231221556	-0.204996646	suppress_segment_too_large
TRIM68	11	4598672	4608259	-0.39835217	PASS
TRIM69	15	44728988	44767829	-0.423772929	PASS
TRIM7	5	181193924	181205293	0.165341871	suppress_segment_too_large
TRIM71	3	32818018	32897826	0.06149513	PASS
TRIM72	16	31214021	31231537	0.053595371	PASS
TRIM73	7	75395063	75410996	-0.701511252	PASS
TRIM74	7	72959485	72969466	-0.701511252	PASS
TRIM77	11	89710299	89717872	0.064535884	PASS
TRIM8	10	102642310	102660680	-0.414937136	PASS
TRIM9	14	50975262	51096061	0.053252507	PASS
TRIML1	4	188139419	188147743	0.275137421	PASS
TRIML2	4	188091273	188109603	0.275137421	PASS
TRIO	5	14143702	14532128	0.073527871	PASS
TRIOBP	22	37696988	37776556	-0.740245994	PASS
TRIP10	19	6737925	6751526	-0.071973357	PASS
TRIP11	14	91965991	92040896	-0.155273506	suppress_segment_too_large
TRIP12	2	229763838	229923239	0.011001208	PASS
TRIP13	5	892643	919357	0.073527871	PASS
TRIP4	15	64387748	64455303	-0.759380635	PASS
TRIP6	7	100867138	100873454	-0.710463272	PASS
TRIQK	8	92883530	93017673	0.355469066	suppress_segment_too_large
TRIR	19	12730640	12734775	-0.069222905	PASS
TRIT1	1	39838110	39883511	0.048749694	PASS
TRMO	9	97904489	97922570	0.073960965	PASS
TRMT1	19	13104902	13117567	-0.069222905	PASS
TRMT10A	4	99546709	99564032	-0.677982248	PASS
TRMT10B	9	37753803	37778972	0.073960965	PASS
TRMT10C	3	101561862	101566446	0.22470242	PASS
TRMT11	6	125986430	126203817	-0.304168115	PASS
TRMT112	11	64316460	64318084	0.064535884	PASS
TRMT12	8	124450820	124462150	0.493344802	suppress_segment_too_large
TRMT13	1	100133150	100150497	0.079255572	PASS
TRMT1L	1	185118098	185157072	0.088103245	PASS
TRMT2A	22	20111866	20117392	-0.740245994	PASS
TRMT2B	23	101009346	101052116	0.158844052	PASS
TRMT44	4	8436140	8493531	-0.358623662	PASS
TRMT5	14	60971451	60981358	0.053252507	PASS
TRMT6	20	5937235	5950558	-0.172056771	suppress_segment_too_large
TRMT61A	14	103529184	103537073	-0.155273506	suppress_segment_too_large
TRMT61B	2	28849821	28870301	0.034263343	PASS
TRMT9B	8	12945642	13031503	-0.311940419	PASS
TRMU	22	46330875	46357340	-0.953096644	PASS
TRNAU1A	1	28553085	28578545	0.048749694	PASS
TRNP1	1	26993707	27000898	0.048749694	PASS
TRNT1	3	3126916	3150879	0.06149513	PASS
TRO	23	54920462	54931431	0.158844052	PASS
TROAP	12	49323236	49331731	-0.743220499	PASS
TROVE2	1	193059422	193091777	0.088103245	PASS
TRPA1	8	72019917	72075617	0.182873287	suppress_segment_too_large

TRPC1	3	142724074	142807888	0.02267528	PASS
TRPC3	4	121879027	121951754	0.142431244	suppress_segment_too_large
TRPC4	13	37636636	37870425	-0.398748891	PASS
TRPC4AP	20	35002404	35092871	-0.172056771	suppress_segment_too_large
TRPC5	23	111774315	112082776	0.158844052	PASS
TRPC5OS	23	111876051	111903990	0.158844052	PASS
TRPC6	11	101451564	101872562	0.32805343	suppress_segment_too_large
TRPC7	5	136213320	136365545	-0.393084436	PASS
TRPM1	15	31001061	31161273	-0.423772929	PASS
TRPM2	21	44350163	44443081	0.209983559	PASS
TRPM3	9	70529063	71446904	0.073960965	PASS
TRPM4	19	49157741	49211836	0.002743503	PASS
TRPM5	11	2404515	2423045	-0.39835217	PASS
TRPM6	9	74722495	74888094	0.073960965	PASS
TRPM7	15	50552473	50686815	-0.423772929	PASS
TRPM8	2	233917398	234019522	0.011001208	PASS
TRPS1	8	115408496	115809673	0.493344802	suppress_segment_too_large
TRPT1	11	64223799	64226254	0.064535884	PASS
TRPV1	17	3565444	3609411	0.06854245	PASS
TRPV2	17	16415542	16437003	0.06854245	PASS
TRPV3	17	3510502	3557995	0.06854245	PASS
TRPV4	12	109783085	109833401	0.028722739	PASS
TRPV5	7	142908101	142933808	-0.712149877	PASS
TRPV6	7	142871203	142885762	-0.712149877	PASS
TRRAP	7	98877933	99050831	-0.710463272	PASS
TRUB1	10	114938193	114977676	0.073090211	PASS
TRUB2	9	128305161	128322742	0.073960965	PASS
TSACC	1	156337314	156346995	0.088103245	PASS
TSC1	9	132891348	132946874	0.073960965	PASS
TSC2	16	2047465	2089487	0.053595371	PASS
TSC22D1	13	44432143	44577147	-0.398748891	PASS
TSC22D2	3	150408335	150466431	0.02267528	PASS
TSC22D3	23	107713221	107777342	0.158844052	PASS
TSC22D4	7	100463359	100479279	-0.710463272	PASS
TSEN15	1	184051651	184123978	0.088103245	PASS
TSEN2	3	12484432	12539623	0.06149513	PASS
TSEN34	19	54189938	54194536	0.142581352	PASS
TSEN54	17	75516060	75524739	0.051798665	PASS
TSFM	12	57782589	57808071	-0.743220499	PASS
TSG101	11	18468336	18527232	-0.39835217	PASS
TSGA10	2	98997261	99154964	0.064122364	PASS
TSGA10IP	11	65945445	65959963	0.064535884	PASS
TSGA13	7	130668648	130687432	-0.712149877	PASS
TSHB	1	115029824	115034309	0.079255572	PASS
TSHR	14	80954989	81146302	-0.155273506	suppress_segment_too_large
TSHZ1	18	75210755	75289950	-0.330515409	PASS
TSHZ2	20	52972407	53495330	-0.172056771	suppress_segment_too_large
TSHZ3	19	31274945	31349547	0.044838622	PASS
TSKS	19	49739753	49763330	0.002743503	PASS
TSKU	11	76782251	76798154	0.064535884	PASS
TSLP	5	111070062	111078024	-0.393084436	PASS
TSN	2	121737103	121767853	-0.359440172	PASS
TSNARE1	8	142212080	142403240	0.699132336	PASS
TSNAX	1	231528653	231566524	-0.204996646	suppress_segment_too_large

TSNAX-D	1	231528653	231819244	-0.204996646	suppress_segment_too_large
TSNAXIP1	16	67806765	67832148	-0.423061015	PASS
TSPAN1	1	46175073	46185958	-0.736943052	PASS
TSPAN10	17	81637171	81648749	0.051798665	PASS
TSPAN11	12	30926428	30996599	0.49032213	suppress_segment_too_large
TSPAN12	7	120787320	120858402	-0.712149877	PASS
TSPAN13	7	16753535	16784536	-0.72421718	PASS
TSPAN14	10	80454166	80533123	0.032351597	PASS
TSPAN15	10	69451473	69507669	0.032351597	PASS
TSPAN16	19	11296139	11326996	-0.107594294	PASS
TSPAN17	5	176647387	176659054	0.165341871	suppress_segment_too_large
TSPAN18	11	44726465	44932421	0.059795455	PASS
TSPAN19	12	85014311	85036277	0.271127429	suppress_segment_too_large
TSPAN2	1	115048011	115089500	0.079255572	PASS
TSPAN3	15	77041404	77083984	-0.759380635	PASS
TSPAN31	12	57738013	57750211	-0.743220499	PASS
TSPAN32	11	2301997	2318200	-0.39835217	PASS
TSPAN33	7	129144892	129169697	-0.712149877	PASS
TSPAN4	11	842808	867116	-0.39835217	PASS
TSPAN5	4	98470367	98658629	-0.677982248	PASS
TSPAN6	23	100627109	100639991	0.158844052	PASS
TSPAN7	23	38561370	38688920	0.158844052	PASS
TSPAN8	12	71125085	71441898	-0.578548701	PASS
TSPAN9	12	3077355	3286564	-0.015029783	PASS
TSPEAR	21	44497892	44711580	0.209983559	PASS
TSPO	22	43151514	43163242	-0.740245994	PASS
TSPO2	6	41042554	41044337	0.028532667	PASS
TSPOAP1	17	58301228	58328760	0.051798665	PASS
TSPYL1	6	116276578	116279903	-0.355603029	PASS
TSPYL2	23	53082367	53088540	0.158844052	PASS
TSPYL4	6	116249961	116254140	-0.355603029	PASS
TSPYL5	8	97273474	97277964	0.355469066	suppress_segment_too_large
TSPYL6	2	54253184	54256272	0.034263343	PASS
TSR1	17	2322503	2337507	0.06854245	PASS
TSR2	23	54440401	54445487	0.158844052	PASS
TSR3	16	1349240	1351911	0.053595371	PASS
TSSC4	11	2400488	2403878	-0.39835217	PASS
TSSK1B	5	113432554	113435031	-0.393084436	PASS
TSSK2	22	19130808	19132623	-0.740245994	PASS
TSSK3	1	32351521	32364312	0.048749694	PASS
TSSK4	14	24205697	24208362	0.053252507	PASS
TSSK6	19	19512418	19515685	-0.069222905	PASS
TST	22	37010859	37020183	-0.740245994	PASS
TSTA3	8	143612618	143618048	0.699132336	PASS
TSTD1	1	161037631	161038990	0.088103245	PASS
TSTD2	9	97600080	97633575	0.073960965	PASS
TSTD3	6	99520693	99531918	-0.355603029	PASS
TTBK1	6	43243680	43288259	0.028532667	PASS
TTBK2	15	42738734	42920809	-0.423772929	PASS
TTC1	5	160009113	160065543	0.165341871	suppress_segment_too_large
TTC12	11	113314529	113383544	-0.431650509	PASS
TTC13	1	230906243	230978875	-0.204996646	suppress_segment_too_large
TTC14	3	180602130	180617828	0.02267528	PASS
TTC16	9	127716066	127731600	0.073960965	PASS

TTC17	11	43358932	43494933	0.059795455	PASS
TTC19	17	15999380	16045015	0.06854245	PASS
TTC21A	3	39107704	39138903	-0.727808231	PASS
TTC21B	2	165857475	165953843	0.319987345	PASS
TTC22	1	54779712	54801267	-0.736943052	PASS
TTC23	15	99136323	99251223	-0.759380635	PASS
TTC23L	5	34838833	34899456	0.073527871	PASS
TTC24	1	156579727	156586770	0.088103245	PASS
TTC25	17	41930635	41965651	0.041294512	PASS
TTC26	7	139133744	139191986	-0.712149877	PASS
TTC27	2	32628032	32821051	0.034263343	PASS
TTC28	22	27978014	28679865	-0.740245994	PASS
TTC29	4	146706638	146945882	0.142431244	suppress_segment_too_large
TTC3	21	37073226	37203112	0.209983559	PASS
TTC30A	2	177612992	177618966	0.033541467	PASS
TTC30B	2	177548998	177553014	0.033541467	PASS
TTC31	2	74483073	74494886	-0.46122572	PASS
TTC32	2	19896643	19901986	0.034263343	PASS
TTC33	5	40512333	40755975	-0.284712224	PASS
TTC34	1	2635976	2801717	-0.358281697	PASS
TTC36	11	118527472	118531197	-0.431650509	PASS
TTC37	5	95461755	95555007	-0.393084436	PASS
TTC38	22	46267961	46294008	-0.953096644	PASS
TTC39A	1	51287258	51345116	-0.736943052	PASS
TTC39B	9	15163622	15307360	0.073960965	PASS
TTC39C	18	23992773	24135610	-0.330515409	PASS
TTC4	1	54715822	54742657	-0.736943052	PASS
TTC5	14	20256558	20305994	0.053252507	PASS
TTC6	14	37595847	38041442	0.053252507	PASS
TTC7A	2	46916157	47076137	0.034263343	PASS
TTC7B	14	90524564	90816479	-0.155273506	suppress_segment_too_large
TTC8	14	88824153	88881078	-0.155273506	suppress_segment_too_large
TTC9	14	70641787	70675360	0.053252507	PASS
TTC9B	19	40216058	40218399	0.048917043	PASS
TTC9C	11	62728069	62740293	0.064535884	PASS
TTF1	9	132375548	132406851	0.073960965	PASS
TTF2	1	117060303	117107453	0.079255572	PASS
TTI1	20	37983007	38033468	-0.172056771	suppress_segment_too_large
TTI2	8	33473386	33513601	-0.311940419	PASS
TTK	6	80003887	80042527	-0.250122709	PASS
TTL	2	112482154	112541739	0.040971718	PASS
TTLL1	22	43039644	43089428	-0.740245994	PASS
TTLL10	1	1173884	1197935	-0.358281697	PASS
TTLL11	9	121821928	122093606	0.073960965	PASS
TTLL12	22	43166622	43187133	-0.740245994	PASS
TTLL13P	15	90249530	90265482	-0.759380635	PASS
TTLL2	6	167325071	167359503	0.033894706	PASS
TTLL3	3	9808086	9855138	0.06149513	PASS
TTLL4	2	218710845	218755416	0.011001208	PASS
TTLL5	14	75633625	75955078	-0.155273506	suppress_segment_too_large
TTLL6	17	48762235	48817214	0.051798665	PASS
TTLL7	1	83865028	83999150	0.587598296	PASS
TTLL8	22	50015123	50056935	-0.953096644	PASS
TTLL9	20	31870702	31944963	-0.172056771	suppress_segment_too_large

TTN	2	178525989	178830802	0.033541467	PASS
TTPA	8	63048553	63086053	0.182873287	suppress_segment_too_large
TTPAL	20	44475886	44494603	-0.172056771	suppress_segment_too_large
TTR	18	31557010	31599021	-0.330515409	PASS
TTYH1	19	54415219	54436900	0.142581352	PASS
TTYH2	17	74213514	74262020	0.051798665	PASS
TTYH3	7	2631951	2664802	-0.72421718	PASS
TUB	11	8019244	8106112	-0.39835217	PASS
TUBA1A	12	49184796	49189324	-0.743220499	PASS
TUBA1B	12	49127782	49131397	-0.743220499	PASS
TUBA1C	12	49188736	49274603	-0.743220499	PASS
TUBA3C	13	19173770	19181852	-0.398748891	PASS
TUBA3D	2	131476093	131482934	-0.359440172	PASS
TUBA3E	2	130191743	130198461	-0.359440172	PASS
TUBA4A	2	219249711	219278170	0.011001208	PASS
TUBA4B	2	219253243	219272188	0.011001208	PASS
TUBA8	22	18110331	18146554	-0.740245994	PASS
TUBAL3	10	5393098	5404830	0.075711544	PASS
TUBB	6	30720201	30725426	0.069043418	PASS
TUBB1	20	59019254	59026654	-0.172056771	suppress_segment_too_large
TUBB2A	6	3153669	3157526	0.069043418	PASS
TUBB2B	6	3224261	3231730	0.069043418	PASS
TUBB3	16	89921392	89938761	-0.423061015	PASS
TUBB4A	19	6494319	6502848	-0.071973357	PASS
TUBB4B	9	137241213	137243707	0.073960965	PASS
TUBB6	18	12307669	12344320	0.044197172	PASS
TUBB8	10	46892	74163	0.075711544	PASS
TUBB8P12	18	47390	49557	0.044197172	PASS
TUBD1	17	59859482	59892945	0.051798665	PASS
TUBE1	6	112070777	112087529	-0.355603029	PASS
TUBG1	17	42609676	42615234	0.041294512	PASS
TUBG2	17	42659305	42667006	0.041294512	PASS
TUBGCP2	10	133278630	133312337	0.073090211	PASS
TUBGCP3	13	112485005	112588205	-0.426822582	PASS
TUBGCP4	15	43369221	43409771	-0.423772929	PASS
TUBGCP5	15	22983192	23039673	-0.423772929	PASS
TUBGCP6	22	50217689	50244992	-0.953096644	PASS
TUFM	16	28842411	28846408	0.053595371	PASS
TUFT1	1	151540305	151583583	0.079255572	PASS
TULP1	6	35497874	35512938	0.028532667	PASS
TULP2	19	48880965	48898733	0.002743503	PASS
TULP3	12	2877223	2941140	-0.015029783	PASS
TULP4	6	158232236	158511828	0.033894706	PASS
TUNAR	14	95876392	95925571	-0.155273506	suppress_segment_too_large
TUSC1	9	25676389	25678440	0.073960965	PASS
TUSC2	3	50320027	50328251	-0.727808231	PASS
TUSC3	8	15417215	15766649	-0.311940419	PASS
TUT1	11	62575045	62592177	0.064535884	PASS
TUT4	1	52408282	52553487	-0.736943052	PASS
TUT7	9	86287733	86354454	0.073960965	PASS
TVP23A	16	10760919	10818794	0.053595371	PASS
TVP23B	17	18780995	18806714	0.06854245	PASS
TVP23C	17	15502264	15563595	0.06854245	PASS
TVP23C-C	17	15436021	15563561	0.06854245	PASS

TWF1	12	43793723	43806375	-0.46813528	PASS
TWF2	3	52228610	52239260	-0.727808231	PASS
TWIST1	7	19020991	19117672	-0.72421718	PASS
TWIST2	2	238848032	238910543	0.011001208	PASS
TWISTNB	7	19695462	19709087	-0.72421718	PASS
TWNK	10	100987367	100994401	-0.414937136	PASS
TWSG1	18	9334767	9402420	0.044197172	PASS
TXK	4	48066393	48134256	0.115781418	suppress_segment_too_large
TXLNA	1	32179686	32198285	0.048749694	PASS
TXLNB	6	139240061	139292139	0.033894706	PASS
TXLNG	23	16786427	16844519	0.158844052	PASS
TXN	9	110243811	110256640	0.073960965	PASS
TXN2	22	36467036	36482030	-0.740245994	PASS
TXNDC11	16	11679080	11742878	0.053595371	PASS
TXNDC12	1	52020131	52056171	-0.736943052	PASS
TXNDC15	5	134873803	134901525	-0.393084436	PASS
TXNDC16	14	52430590	52552522	0.053252507	PASS
TXNDC17	17	6640758	6644541	0.06854245	PASS
TXNDC2	18	9885726	9889275	0.044197172	PASS
TXNDC5	6	7881517	7910814	0.069043418	PASS
TXNDC8	9	110303521	110337884	0.073960965	PASS
TXNDC9	2	99318982	99340702	0.064122364	PASS
TXNIP	1	145992435	145996600	0.079255572	PASS
TXNL1	18	56597208	56651600	-0.330515409	PASS
TXNL4A	18	79970811	80033949	-0.330515409	PASS
TXNL4B	16	72044289	72094431	-0.423061015	PASS
TXNRD1	12	104215779	104350305	0.028722739	PASS
TXNRD2	22	19875517	19941992	-0.740245994	PASS
TXNRD3	3	126571779	126655155	0.06434429	PASS
TYK2	19	10350529	10380676	-0.107594294	PASS
TYMP	22	50525752	50530056	-0.953096644	PASS
TYMS	18	657604	673578	0.044197172	PASS
TYR	11	89177452	89295759	0.064535884	PASS
TYRO3	15	41557675	41583586	-0.423772929	PASS
TYROBP	19	35904401	35908295	0.044838622	PASS
TYRP1	9	12685439	12710290	0.073960965	PASS
TYSND1	10	70137981	70146676	0.032351597	PASS
TYW1	7	66995173	67239519	-0.701511252	PASS
TYW1B	7	72558744	72828198	-0.701511252	PASS
TYW3	1	74733152	74766678	0.052232535	PASS
TYW5	2	199929975	199955736	0.011001208	PASS
U2AF1	21	43092956	43107587	0.209983559	PASS
U2AF1L4	19	35742464	35745445	0.044838622	PASS
U2AF1L5	21	6484623	6499261	0.220071762	PASS
U2AF2	19	55654146	55674715	0.142581352	PASS
U2SURP	3	142964497	143060546	0.02267528	PASS
U52112.1	23	153872221	153909223	0.158844052	PASS
UACA	15	70654554	70763593	-0.759380635	PASS
UAP1	1	162561506	162599842	0.088103245	PASS
UAP1L1	9	137077501	137084539	0.073960965	PASS
UBA1	23	47190861	47215128	0.158844052	PASS
UBA2	19	34428352	34471251	0.044838622	PASS
UBA3	3	69054730	69080408	-0.727808231	PASS
UBA5	3	132654446	132678097	0.06434429	PASS

UBA52	19	18571730	18577550	-0.069222905	PASS
UBA6	4	67612652	67701179	0.115781418	suppress_segment_too_large
UBA7	3	49805207	49813946	-0.727808231	PASS
UBAC1	9	135932969	135961380	0.073960965	PASS
UBAC2	13	99200774	99386434	-0.384313056	PASS
UBALD1	16	4608883	4615027	0.053595371	PASS
UBALD2	17	76265202	76271299	0.051798665	PASS
UBAP1	9	34179005	34252523	0.073960965	PASS
UBAP1L	15	65092770	65115197	-0.759380635	PASS
UBAP2	9	33921693	34048949	0.073960965	PASS
UBAP2L	1	154220179	154271510	0.088103245	PASS
UBASH3A	21	42403447	42447681	0.209983559	PASS
UBASH3B	11	122655675	122814473	-0.431650509	PASS
UBB	17	16380798	16382745	0.06854245	PASS
UBC	12	124911604	124917368	0.028722739	PASS
UBD	6	29555515	29559925	0.069043418	PASS
UBE2A	23	119574467	119591083	0.158844052	PASS
UBE2B	5	134371179	134391992	-0.393084436	PASS
UBE2C	20	45812576	45816957	-0.172056771	suppress_segment_too_large
UBE2D1	10	58334975	58370753	0.032351597	PASS
UBE2D2	5	139526431	139628433	-0.393084436	PASS
UBE2D3	4	102794383	102868896	-0.677982248	PASS
UBE2D4	7	43926438	43956136	-0.72421718	PASS
UBE2E1	3	23805903	23891316	0.06149513	PASS
UBE2E2	3	23203020	23591793	0.06149513	PASS
UBE2E3	2	180967248	181076585	0.162734012	PASS
UBE2F	2	237966827	238042782	0.011001208	PASS
UBE2F-SC	2	237967014	238099412	0.011001208	PASS
UBE2G1	17	4269259	4366628	0.06854245	PASS
UBE2G2	21	44768580	44802019	0.209983559	PASS
UBE2H	7	129830732	129952949	-0.712149877	PASS
UBE2I	16	1308880	1327018	0.053595371	PASS
UBE2J1	6	89326625	89352848	-0.355603029	PASS
UBE2J2	1	1253909	1273885	-0.358281697	PASS
UBE2K	4	39698044	39782792	-0.753159364	PASS
UBE2L3	22	21549447	21624034	-0.740245994	PASS
UBE2L5	13	30422488	30428616	-0.398748891	PASS
UBE2L6	11	57551656	57568284	0.27006553	suppress_segment_too_large
UBE2M	19	58555712	58558960	0.142581352	PASS
UBE2N	12	93405673	93442262	0.028722739	PASS
UBE2O	17	76389451	76453206	0.051798665	PASS
UBE2Q1	1	154548577	154559028	0.088103245	PASS
UBE2Q2	15	75843285	75901078	-0.759380635	PASS
UBE2QL1	5	6448623	6494909	0.073527871	PASS
UBE2R2	9	33817567	33920404	0.073960965	PASS
UBE2S	19	55399745	55407777	0.142581352	PASS
UBE2T	1	202331657	202341980	-0.204996646	suppress_segment_too_large
UBE2U	1	64203627	64267368	0.052232535	PASS
UBE2V1	20	50081124	50115959	-0.172056771	suppress_segment_too_large
UBE2V2	8	48008400	48064708	0.182873287	suppress_segment_too_large
UBE2W	8	73780097	73878910	0.182873287	suppress_segment_too_large
UBE2Z	17	48908369	48929056	0.051798665	PASS
UBE3A	15	25333728	25439056	-0.423772929	PASS
UBE3B	12	109477402	109536705	0.028722739	PASS

UBE3C	7	157138913	157269372	-0.77630473	PASS
UBE3D	6	82892398	83065841	-0.250122709	PASS
UBE4A	11	118359585	118399211	-0.431650509	PASS
UBE4B	1	10032832	10181239	0.364796772	PASS
UBFD1	16	23557362	23574389	0.053595371	PASS
UBIAD1	1	11273206	11296049	0.364796772	PASS
UBL3	13	29764371	29850684	-0.398748891	PASS
UBL4A	23	154483717	154486670	0.158844052	PASS
UBL4B	1	110112468	110113945	0.079255572	PASS
UBL5	19	9827892	9830115	-0.107594294	PASS
UBL7	15	74445977	74461182	-0.759380635	PASS
UBLCP1	5	159263081	159286040	0.165341871	suppress_segment_too_large
UBN1	16	4846665	4882360	0.053595371	PASS
UBN2	7	139230356	139308236	-0.712149877	PASS
UBOX5	20	3107573	3160196	-0.172056771	suppress_segment_too_large
UBP1	3	33388336	33441371	0.06149513	PASS
UBQLN1	9	83659963	83708203	0.073960965	PASS
UBQLN2	23	56563639	56567868	0.158844052	PASS
UBQLN3	11	5507300	5509985	-0.39835217	PASS
UBQLN4	1	156035301	156053794	0.088103245	PASS
UBQLNL	11	5514393	5516705	-0.39835217	PASS
UBR1	15	42942897	43106113	-0.423772929	PASS
UBR2	6	42564062	42693504	0.028532667	PASS
UBR3	2	169827458	170084131	0.033541467	PASS
UBR4	1	19074506	19210276	0.048749694	PASS
UBR5	8	102253012	102412841	0.355469066	suppress_segment_too_large
UBR7	14	93207056	93229215	-0.155273506	suppress_segment_too_large
UBTD1	10	97498868	97571209	-0.414937136	PASS
UBTD2	5	172209640	172284071	0.165341871	suppress_segment_too_large
UBTF	17	44205033	44221626	0.051798665	PASS
UBTFL1	11	90085950	90087131	0.064535884	PASS
UBXN1	11	62676498	62679117	0.064535884	PASS
UBXN10	1	20186085	20196048	0.048749694	PASS
UBXN11	1	26281328	26318363	0.048749694	PASS
UBXN2A	2	23927285	24004909	0.034263343	PASS
UBXN2B	8	58411264	58451501	0.182873287	suppress_segment_too_large
UBXN4	2	135741619	135785055	-0.359440172	PASS
UBXN6	19	4444999	4457822	-0.071973357	PASS
UBXN7	3	196347662	196432474	0.02267528	PASS
UBXN8	8	30732247	30767006	-0.311940419	PASS
UCHL1	4	41256413	41268455	-0.753159364	PASS
UCHL3	13	75549480	75606020	-0.384313056	PASS
UCHL5	1	193012250	193060080	0.088103245	PASS
UCK1	9	131523801	131531268	0.073960965	PASS
UCK2	1	165827531	165911618	0.088103245	PASS
UCKL1	20	63939829	63956415	-0.172056771	suppress_segment_too_large
UCMA	10	13221767	13234334	0.075711544	PASS
UCN	2	27307400	27308445	0.034263343	PASS
UCN2	3	48561727	48563773	-0.727808231	PASS
UCN3	10	5365009	5374692	0.075711544	PASS
UCP1	4	140559434	140568805	0.142431244	suppress_segment_too_large
UCP2	11	73974667	73983307	0.064535884	PASS
UCP3	11	74000281	74009435	0.064535884	PASS
UEVLD	11	18529609	18588747	-0.39835217	PASS

UFC1	1	161152776	161158856	0.088103245	PASS
UFD1	22	19449910	19479215	-0.740245994	PASS
UFL1	6	96521595	96555276	-0.355603029	PASS
UFM1	13	38349849	38363619	-0.398748891	PASS
UFSP1	7	100888723	100889718	-0.710463272	PASS
UFSP2	4	185399540	185425985	0.275137421	PASS
UGCG	9	111896766	111935369	0.073960965	PASS
UGDH	4	39498755	39528311	-0.753159364	PASS
UGGT1	2	128091200	128195677	-0.359440172	PASS
UGGT2	13	95801580	96053482	-0.384313056	PASS
UGP2	2	63840940	63891562	-0.46122572	PASS
UGT1A1	2	233760248	233773299	0.011001208	PASS
UGT1A10	2	233636454	233773305	0.011001208	PASS
UGT1A3	2	233729108	233773299	0.011001208	PASS
UGT1A4	2	233718778	233773299	0.011001208	PASS
UGT1A5	2	233712992	233773299	0.011001208	PASS
UGT1A6	2	233691607	233773300	0.011001208	PASS
UGT1A7	2	233681938	233773299	0.011001208	PASS
UGT1A8	2	233617645	233773310	0.011001208	PASS
UGT1A9	2	233671853	233773300	0.011001208	PASS
UGT2A1	4	69588417	69653249	0.115781418	suppress_segment_too_large
UGT2A2	4	69589309	69639642	0.115781418	suppress_segment_too_large
UGT2A3	4	68928463	68951791	0.115781418	suppress_segment_too_large
UGT2B10	4	68815993	68831196	0.115781418	suppress_segment_too_large
UGT2B11	4	69199951	69214731	0.115781418	suppress_segment_too_large
UGT2B15	4	68646630	68670628	0.115781418	suppress_segment_too_large
UGT2B17	4	68537184	68568527	0.115781418	suppress_segment_too_large
UGT2B28	4	69280499	69295050	0.115781418	suppress_segment_too_large
UGT2B4	4	69480165	69526014	0.115781418	suppress_segment_too_large
UGT2B7	4	69051363	69112987	0.115781418	suppress_segment_too_large
UGT3A1	5	35951010	36001028	0.073527871	PASS
UGT3A2	5	36035017	36071358	0.073527871	PASS
UGT8	4	114598455	114678224	0.281939692	PASS
UHMK1	1	162497251	162529629	0.088103245	PASS
UHRF1	19	4903080	4962154	-0.071973357	PASS
UHRF1BP	6	34792015	34883138	0.028532667	PASS
UHRF1BP	12	100028455	100142848	0.028722739	PASS
UHRF2	9	6413151	6507054	0.073960965	PASS
UIMC1	5	176905005	177022633	0.165341871	suppress_segment_too_large
ULBP1	6	149964007	149973710	0.033894706	PASS
ULBP2	6	149942000	149949235	0.033894706	PASS
ULBP3	6	150063150	150069095	0.033894706	PASS
ULK1	12	131894651	131923167	0.028722739	PASS
ULK2	17	19770829	19867936	0.06854245	PASS
ULK3	15	74836116	74843346	-0.759380635	PASS
ULK4	3	41246599	41962430	-0.727808231	PASS
UMAD1	7	7640711	7968020	-0.72421718	PASS
UMOD	16	20333052	20356301	0.053595371	PASS
UMODL1	21	42062959	42143453	0.209983559	PASS
UMPS	3	124730366	124749273	0.06434429	PASS
UNC119	17	28546707	28552668	0.041294512	PASS
UNC119B	12	120710435	120723640	0.028722739	PASS
UNC13A	19	17601328	17688365	-0.069222905	PASS
UNC13B	9	35161992	35405338	0.073960965	PASS

UNC13C	15	53978201	54633414	-0.423772929	PASS
UNC13D	17	75827225	75844717	0.051798665	PASS
UNC45A	15	90930180	90954093	-0.759380635	PASS
UNC45B	17	35147817	35189345	0.041294512	PASS
UNC50	2	98608579	98618515	0.064122364	PASS
UNC5A	5	176810477	176880898	0.165341871	suppress_segment_too_large
UNC5B	10	71212570	71302864	0.032351597	PASS
UNC5C	4	95162504	95549206	-0.677982248	PASS
UNC5CL	6	41026911	41039217	0.028532667	PASS
UNC5D	8	35235457	35796550	-0.311940419	PASS
UNC79	14	93333219	93707876	-0.155273506	suppress_segment_too_large
UNC80	2	209771993	209999300	0.011001208	PASS
UNC93A	6	167271169	167316019	0.033894706	PASS
UNC93B1	11	67991104	68004982	0.064535884	PASS
UNCX	7	1232907	1237318	-0.72421718	PASS
UNG	12	109097574	109110992	0.028722739	PASS
UNK	17	75784771	75825799	0.051798665	PASS
UNKL	16	1363205	1414751	0.053595371	PASS
UPB1	22	24494107	24528390	-0.740245994	PASS
UPF1	19	18831938	18868236	-0.069222905	PASS
UPF2	10	11920022	12043170	0.075711544	PASS
UPF3A	13	114281584	114305817	-0.426822582	PASS
UPF3B	23	119805311	119852998	0.158844052	PASS
UPK1A	19	35666516	35678483	0.044838622	PASS
UPK1B	3	119173517	119205153	0.06434429	PASS
UPK2	11	118925164	118958559	-0.431650509	PASS
UPK3A	22	45284982	45295874	-0.953096644	PASS
UPK3B	7	76510428	76516521	-0.701511252	PASS
UPK3BL1	7	102637025	102642791	-0.712149877	PASS
UPP1	7	48088628	48108733	-0.72421718	PASS
UPP2	2	157876702	158136154	0.054749241	PASS
UPRT	23	75274085	75304600	0.158844052	PASS
UQCC1	20	35302566	35412141	-0.172056771	suppress_segment_too_large
UQCC2	6	33694293	33711727	0.028532667	PASS
UQCC3	11	62670273	62673687	0.064535884	PASS
UQCR10	22	29767369	29770413	-0.740245994	PASS
UQCR11	19	1597172	1605490	-0.071973357	PASS
UQCRB	8	96225920	96235634	0.355469066	suppress_segment_too_large
UQCRC1	3	48599002	48610976	-0.727808231	PASS
UQCRC2	16	21952660	21983660	0.053595371	PASS
UQCRFS1	19	29205321	29213541	0.044838622	PASS
UQCRH	1	46303631	46316776	-0.736943052	PASS
UQCRHL	1	15807169	15809348	0.048749694	PASS
UQCRQ	5	132866560	132868031	-0.393084436	PASS
URAD	13	27977714	27988654	-0.398748891	PASS
URB1	21	32311018	32393026	0.209983559	PASS
URB2	1	229626234	229660199	-0.204996646	suppress_segment_too_large
URGCP	7	43875894	43926411	-0.72421718	PASS
URGCP-M	7	43866558	43906589	-0.72421718	PASS
URI1	19	29923644	30016608	0.044838622	PASS
URM1	9	128371319	128392016	0.073960965	PASS
UROC1	3	126481281	126517773	0.06434429	PASS
UROD	1	45012147	45015575	-0.736943052	PASS
UROS	10	125784980	125823285	0.073090211	PASS

USB1	16	57999546	58021618	-0.423061015	PASS
USE1	19	17215346	17219829	-0.069222905	PASS
USF1	1	161039251	161045977	0.088103245	PASS
USF2	19	35268978	35279821	0.044838622	PASS
USF3	3	113648385	113696646	0.06434429	PASS
USH1C	11	17493895	17544416	-0.39835217	PASS
USH1G	17	74916084	74923256	0.051798665	PASS
USH2A	1	215622894	216423396	-0.204996646	suppress_segment_too_large
USHBP1	19	17249176	17282786	-0.069222905	PASS
USO1	4	75724593	75814286	-0.677982248	PASS
USP1	1	62436297	62451804	0.052232535	PASS
USP10	16	84699978	84779922	-0.423061015	PASS
USP11	23	47232690	47248328	0.158844052	PASS
USP12	13	27066142	27171896	-0.398748891	PASS
USP13	3	179652755	179789401	0.02267528	PASS
USP14	18	158383	214629	0.044197172	PASS
USP15	12	62260338	62417431	-0.743220499	PASS
USP16	21	29024629	29054488	0.209983559	PASS
USP17L1	8	7332387	7333979	-0.311940419	PASS
USP17L2	8	12137168	12139077	-0.311940419	PASS
USP17L22	4	9267619	9269570	-0.358623662	PASS
USP17L4	8	7337115	7338707	-0.311940419	PASS
USP17L7	8	12132417	12134438	-0.311940419	PASS
USP18	22	18149899	18177397	-0.740245994	PASS
USP19	3	49108046	49120938	-0.727808231	PASS
USP2	11	119355215	119381726	-0.431650509	PASS
USP20	9	129834698	129881838	0.073960965	PASS
USP21	1	161159450	161165723	0.088103245	PASS
USP22	17	20999593	21043760	0.06854245	PASS
USP24	1	55066359	55215113	-0.736943052	PASS
USP25	21	15730025	15880069	0.758930684	suppress_segment_too_large
USP26	23	133024631	133097109	0.158844052	PASS
USP27X	23	49879948	49882565	0.158844052	PASS
USP28	11	113797874	113875570	-0.431650509	PASS
USP29	19	57119138	57131926	0.142581352	PASS
USP3	15	63504511	63594640	-0.759380635	PASS
USP30	12	109023089	109088026	0.028722739	PASS
USP31	16	23061406	23149270	0.053595371	PASS
USP32	17	60179094	60422470	0.051798665	PASS
USP33	1	77695987	77759852	0.052232535	PASS
USP34	2	61187463	61470769	-0.46122572	PASS
USP35	11	78188812	78214711	0.064535884	PASS
USP36	17	78787381	78841441	0.051798665	PASS
USP37	2	218450251	218568361	0.011001208	PASS
USP38	4	143184917	143223830	0.142431244	suppress_segment_too_large
USP39	2	85602856	85649282	0.064122364	PASS
USP4	3	49277831	49340712	-0.727808231	PASS
USP40	2	233475520	233566782	0.011001208	PASS
USP41	22	20350578	20390758	-0.740245994	PASS
USP42	7	6104884	6161564	-0.72421718	PASS
USP43	17	9644698	9729691	0.06854245	PASS
USP44	12	95516560	95551490	0.028722739	PASS
USP45	6	99432379	99521728	-0.355603029	PASS
USP46	4	52590972	52659335	0.115781418	suppress_segment_too_large

USP47	11	11841423	11959323	-0.39835217	PASS
USP48	1	21678298	21783606	0.048749694	PASS
USP49	6	41789896	41895361	0.028532667	PASS
USP5	12	6852128	6866632	-0.015029783	PASS
USP50	15	50500562	50546708	-0.423772929	PASS
USP51	23	55484616	55489202	0.158844052	PASS
USP53	4	119212587	119295517	-0.754119944	PASS
USP54	10	73497538	73625953	0.032351597	PASS
USP6	17	5116438	5175034	0.06854245	PASS
USP6NL	10	11453946	11611754	0.075711544	PASS
USP7	16	8892094	8964514	0.053595371	PASS
USP8	15	50424380	50514419	-0.423772929	PASS
USP9X	23	41085635	41236579	0.158844052	PASS
USPL1	13	30617693	30660770	-0.398748891	PASS
UST	6	148747328	149076990	0.033894706	PASS
UTF1	10	133230274	133231558	0.073090211	PASS
UTP11	1	38009258	38024824	0.048749694	PASS
UTP14A	23	129906121	129929761	0.158844052	PASS
UTP14C	13	52024691	52033600	-0.384313056	PASS
UTP15	5	73565443	73583377	-0.393084436	PASS
UTP18	17	51260528	51297936	0.051798665	PASS
UTP20	12	101280109	101386616	0.028722739	PASS
UTP23	8	116766503	116849463	0.493344802	suppress_segment_too_large
UTP25	1	209828007	209857565	-0.204996646	suppress_segment_too_large
UTP3	4	70688479	70690551	0.115781418	suppress_segment_too_large
UTP4	16	69131291	69231130	-0.423061015	PASS
UTP6	17	31860899	31901765	0.041294512	PASS
UTRN	6	144285701	144853034	0.033894706	PASS
UTS2	1	7843083	7853512	0.364796772	PASS
UTS2B	3	191267168	191330536	0.02267528	PASS
UTS2R	17	82374230	82375586	0.051798665	PASS
UVRAG	11	75815167	76143195	0.064535884	PASS
UVSSA	4	1347266	1395992	-0.358623662	PASS
UXS1	2	106093303	106194339	-0.439572519	PASS
UXT	23	47651798	47659161	0.158844052	PASS
VAC14	16	70687439	70801161	-0.423061015	PASS
VAMP1	12	6462237	6470987	-0.015029783	PASS
VAMP2	17	8159149	8163546	0.06854245	PASS
VAMP3	1	7771269	7781432	0.364796772	PASS
VAMP4	1	171700160	171742247	0.088103245	PASS
VAMP5	2	85584408	85593412	0.064122364	PASS
VAMP7	23	155881293	155943769	0.158844052	PASS
VAMP8	2	85561562	85582031	0.064122364	PASS
VANGL1	1	115641953	115698224	0.079255572	PASS
VANGL2	1	160400586	160428678	0.088103245	PASS
VAPA	18	9914002	9960021	0.044197172	PASS
VAPB	20	58389122	58451101	-0.172056771	suppress_segment_too_large
VARS	6	31777518	31795953	0.028532667	PASS
VARS2	6	30908242	30926459	0.069043418	PASS
VASH1	14	76762189	76783015	-0.155273506	suppress_segment_too_large
VASH2	1	212950520	212992037	-0.204996646	suppress_segment_too_large
VASN	16	4371848	4383528	0.053595371	PASS
VASP	19	45506579	45526983	0.002743503	PASS
VAT1	17	43014605	43025123	0.041294512	PASS

VAT1L	16	77788530	77980107	-0.423061015	PASS
VAV1	19	6772714	6857366	-0.071973357	PASS
VAV2	9	133761894	133992604	0.073960965	PASS
VAV3	1	107571160	107965144	0.079255572	PASS
VAX1	10	117128521	117138301	0.073090211	PASS
VAX2	2	70900590	70965373	-0.46122572	PASS
VBP1	23	155197007	155239817	0.158844052	PASS
VCAM1	1	100719742	100739045	0.079255572	PASS
VCAN	5	83471465	83582303	-0.393084436	PASS
VCL	10	73995193	74121363	0.032351597	PASS
VCP	9	35056064	35073249	0.073960965	PASS
VCPIP1	8	66628487	66667217	0.182873287	suppress_segment_too_large
VCPKMT	14	50108632	50116600	0.053252507	PASS
VCX	23	7842262	7844143	0.158844052	PASS
VCX2	23	8169944	8171267	0.158844052	PASS
VCX3A	23	6533618	6535118	0.158844052	PASS
VCX3B	23	8464830	8466510	0.158844052	PASS
VDAC1	5	133971915	134005133	-0.393084436	PASS
VDAC2	10	75210154	75231448	0.032351597	PASS
VDAC3	8	42391624	42405897	0.182873287	suppress_segment_too_large
VDR	12	47841537	47943048	-0.743220499	PASS
VEGFA	6	43770184	43786487	0.028532667	PASS
VEGFB	11	64234538	64238793	0.064535884	PASS
VEGFC	4	176683538	176792727	0.142431244	suppress_segment_too_large
VEGFD	23	15345591	15384376	0.158844052	PASS
VENTX	10	133237404	133241929	0.073090211	PASS
VEPH1	3	157259742	157533619	0.02267528	PASS
VEZF1	17	57971547	57988259	0.051798665	PASS
VEZT	12	95217746	95302790	0.028722739	PASS
VGF	7	101162509	101165593	-0.712149877	PASS
VGLL1	23	136532152	136556807	0.158844052	PASS
VGLL2	6	117265558	117273565	-0.355603029	PASS
VGLL3	3	86876388	86991119	0.22470242	PASS
VGLL4	3	11556070	11771350	0.06149513	PASS
VHL	3	10141008	10152220	0.06149513	PASS
VHLL	1	156298624	156299299	0.088103245	PASS
VIL1	2	218419092	218453295	0.011001208	PASS
VILL	3	37988059	38007188	-0.727808231	PASS
VIM	10	17228259	17237593	0.075711544	PASS
VIP	6	152750798	152759765	0.033894706	PASS
VIPAS39	14	77426675	77457952	-0.155273506	suppress_segment_too_large
VIPR1	3	42489299	42537573	-0.727808231	PASS
VIPR2	7	159028175	159144957	-0.77630473	PASS
VIRMA	8	94487693	94553529	0.355469066	suppress_segment_too_large
VIT	2	36696690	36814792	0.034263343	PASS
VKORC1	16	31090842	31095980	0.053595371	PASS
VKORC1L	7	65873166	65959563	-0.701511252	PASS
VLDLR	9	2621834	2660053	0.073960965	PASS
VMA21	23	151396515	151409364	0.158844052	PASS
VMAC	19	5904858	5910853	-0.071973357	PASS
VMO1	17	4785285	4786433	0.06854245	PASS
VMP1	17	59707192	59842255	0.051798665	PASS
VN1R1	19	57454790	57457142	0.142581352	PASS
VN1R2	19	53258292	53261837	0.416834572	PASS

VN1R4	19	53266676	53267723	0.416834572	PASS
VNN1	6	132681590	132714049	-0.304168115	PASS
VNN2	6	132743870	132763459	-0.304168115	PASS
VNN3	6	132722787	132734765	-0.304168115	PASS
VOPP1	7	55436056	55572988	-0.701511252	PASS
VPREB1	22	22244675	22245515	-0.740245994	PASS
VPREB3	22	23752743	23754468	-0.740245994	PASS
VPS11	11	119067692	119081978	-0.431650509	PASS
VPS13A	9	77177353	77421541	0.073960965	PASS
VPS13B	8	99013266	99877580	0.355469066	suppress_segment_too_large
VPS13C	15	61852389	62060473	-0.759380635	PASS
VPS13D	1	12230030	12512047	0.048749694	PASS
VPS16	20	2840703	2866732	-0.172056771	suppress_segment_too_large
VPS18	15	40894430	40903975	-0.423772929	PASS
VPS25	17	42773436	42779599	0.041294512	PASS
VPS26A	10	69123512	69172861	0.032351597	PASS
VPS26B	11	134224645	134247792	0.105032849	PASS
VPS26C	21	37223420	37267919	0.209983559	PASS
VPS28	8	144423601	144428563	0.699132336	PASS
VPS29	12	110491097	110502117	0.028722739	PASS
VPS33A	12	122229564	122266521	0.028722739	PASS
VPS33B	15	90998416	91022603	-0.759380635	PASS
VPS35	16	46656132	46689518	0.053595371	PASS
VPS35L	16	19555240	19706793	0.053595371	PASS
VPS36	13	52412602	52450628	-0.384313056	PASS
VPS37A	8	17246571	17302427	-0.311940419	PASS
VPS37B	12	122865328	122896444	0.028722739	PASS
VPS37C	11	61130256	61161617	0.064535884	PASS
VPS37D	7	73667825	73672112	-0.701511252	PASS
VPS39	15	42158701	42208316	-0.423772929	PASS
VPS41	7	38722963	38932394	-0.72421718	PASS
VPS45	1	150067279	150145329	0.079255572	PASS
VPS4A	16	69311356	69326939	-0.423061015	PASS
VPS4B	18	63389190	63422483	-0.330515409	PASS
VPS50	7	93232340	93361121	-0.710463272	PASS
VPS51	11	65089324	65111860	0.064535884	PASS
VPS52	6	33250272	33272047	0.028532667	PASS
VPS53	17	508668	721717	0.06854245	PASS
VPS54	2	63892146	64019072	-0.46122572	PASS
VPS72	1	151169987	151195321	0.079255572	PASS
VPS8	3	184812143	185052614	0.02267528	PASS
VPS9D1	16	89707134	89720986	-0.423061015	PASS
VRK1	14	96797304	96931722	-0.155273506	suppress_segment_too_large
VRK2	2	57907629	58159920	-0.46122572	PASS
VRK3	19	49976467	50025946	0.002743503	PASS
VRTN	14	74303069	74360008	0.053252507	PASS
VSIG1	23	108044970	108079184	0.158844052	PASS
VSIG10	12	118063593	118136026	0.028722739	PASS
VSIG10L	19	51331536	51342124	0.002743503	PASS
VSIG2	11	124747472	124752238	-0.431650509	PASS
VSIG4	23	66021738	66040125	0.158844052	PASS
VSIG8	1	159854316	159862657	0.088103245	PASS
VSIR	10	71747559	71773498	0.032351597	PASS
VSNL1	2	17539126	17657018	0.034263343	PASS

VSTM1	19	54040825	54063953	0.142581352	PASS
VSTM2A	7	54542325	54571080	-0.701511252	PASS
VSTM2B	19	29526499	29564479	0.044838622	PASS
VSTM2L	20	37903104	37945350	-0.172056771	suppress_segment_too_large
VSTM4	10	49014245	49115509	-0.389033546	PASS
VSTM5	11	93818232	93850531	0.064535884	PASS
VSX1	20	25070885	25082365	-0.172056771	suppress_segment_too_large
VSX2	14	74239472	74262738	0.053252507	PASS
VTA1	6	142147162	142224689	0.033894706	PASS
VTCN1	1	117143587	117210960	0.079255572	PASS
VTI1A	10	112446998	112818744	0.073090211	PASS
VTI1B	14	67647075	67674831	0.053252507	PASS
VTN	17	28367276	28373091	0.041294512	PASS
VWA1	1	1434861	1442882	-0.358281697	PASS
VWA2	10	114239330	114291513	0.073090211	PASS
VWA3A	16	22092538	22156966	0.053595371	PASS
VWA3B	2	98087116	98313299	0.064122364	PASS
VWA5A	11	124115362	124147721	-0.431650509	PASS
VWA5B1	1	20290919	20354894	0.048749694	PASS
VWA5B2	3	184230429	184242329	0.02267528	PASS
VWA7	6	31765590	31777294	0.028532667	PASS
VWA8	13	41566837	41961120	-0.398748891	PASS
VWC2	7	49773661	49921950	-0.701511252	PASS
VWC2L	2	214411065	214578959	0.011001208	PASS
VWCE	11	61258286	61295424	0.064535884	PASS
VWDE	7	12330885	12403941	-0.72421718	PASS
VWF	12	5948874	6124770	-0.015029783	PASS
VXN	8	66493208	66518524	0.182873287	suppress_segment_too_large
WAC	10	28532493	28623112	0.075711544	PASS
WAPL	10	86435256	86521815	0.032351597	PASS
WARS	14	100333788	100376805	-0.155273506	suppress_segment_too_large
WARS2	1	119031216	119140671	0.079255572	PASS
WAS	23	48676596	48691427	0.158844052	PASS
WASF1	6	110099819	110180004	-0.355603029	PASS
WASF2	1	27404226	27490158	0.048749694	PASS
WASF3	13	26557703	26688948	-0.398748891	PASS
WASHC1	9	14521	73865	0.073960965	PASS
WASHC2A	10	50067888	50133506	-0.389033546	PASS
WASHC2C	10	45727200	45792961	-0.389033546	PASS
WASHC3	12	102012927	102062149	0.028722739	PASS
WASHC4	12	105107324	105169134	0.028722739	PASS
WASHC5	8	125024260	125091840	0.493344802	suppress_segment_too_large
WASL	7	123681935	123749067	-0.712149877	PASS
WBP1	2	74458329	74460891	-0.46122572	PASS
WBP11	12	14784579	14803540	0.49032213	suppress_segment_too_large
WBP1L	10	102743901	102834516	-0.414937136	PASS
WBP2	17	75845699	75856507	0.051798665	PASS
WBP2NL	22	41998725	42058456	-0.740245994	PASS
WBP4	13	41061274	41084006	-0.398748891	PASS
WDCP	2	24029340	24049575	0.034263343	PASS
WDFY1	2	223855716	223945387	0.011001208	PASS
WDFY2	13	51584455	51767707	-0.384313056	PASS
WDFY3	4	84669610	84966391	-0.677982248	PASS
WDFY4	10	48684876	48982956	-0.389033546	PASS

WDHD1	14	54938950	55027105	0.053252507	PASS
WDPCP	2	63121383	63827843	-0.46122572	PASS
WDR1	4	10074339	10116949	-0.358623662	PASS
WDR11	10	120851175	120909524	0.073090211	PASS
WDR12	2	202874782	203014798	0.011001208	PASS
WDR13	23	48590042	48608867	0.158844052	PASS
WDR17	4	176065834	176182818	0.142431244	suppress_segment_too_large
WDR18	19	984271	998438	-0.071973357	PASS
WDR19	4	39182404	39285810	-0.753159364	PASS
WDR20	14	102139503	102224847	-0.155273506	suppress_segment_too_large
WDR24	16	684622	690444	0.053595371	PASS
WDR25	14	100376418	100530303	-0.155273506	suppress_segment_too_large
WDR26	1	224385143	224437033	-0.204996646	suppress_segment_too_large
WDR27	6	169457212	169702067	0.033894706	PASS
WDR3	1	117929720	117966542	0.079255572	PASS
WDR31	9	113313222	113340298	0.073960965	PASS
WDR33	2	127701022	127811187	-0.359440172	PASS
WDR34	9	128633661	128656787	0.073960965	PASS
WDR35	2	19910260	19990131	0.034263343	PASS
WDR36	5	111091716	111130502	-0.393084436	PASS
WDR37	10	1049538	1132384	0.075711544	PASS
WDR38	9	124853417	124857890	0.073960965	PASS
WDR4	21	42843094	42879568	0.209983559	PASS
WDR41	5	77425970	77620611	-0.393084436	PASS
WDR43	2	28894643	28948222	0.034263343	PASS
WDR44	23	118346073	118449961	0.158844052	PASS
WDR45	23	49071470	49101170	0.158844052	PASS
WDR45B	17	82614562	82648553	0.051798665	PASS
WDR46	6	33279108	33289527	0.028532667	PASS
WDR47	1	108970214	109042113	0.079255572	PASS
WDR48	3	39051998	39096671	-0.727808231	PASS
WDR49	3	167478684	167653983	0.02267528	PASS
WDR5	9	134135365	134159968	0.073960965	PASS
WDR53	3	196554177	196568674	0.02267528	PASS
WDR54	2	74421678	74425755	-0.46122572	PASS
WDR55	5	140664676	140674124	-0.393084436	PASS
WDR59	16	74871367	75000173	-0.423061015	PASS
WDR5B	3	122412332	122416051	0.06434429	PASS
WDR6	3	49007062	49015953	-0.727808231	PASS
WDR60	7	158856578	158956747	-0.77630473	PASS
WDR61	15	78277835	78299794	-0.759380635	PASS
WDR62	19	36054881	36105106	0.044838622	PASS
WDR63	1	84999147	85133138	0.587598296	PASS
WDR64	1	241652278	241802133	-0.287484925	PASS
WDR66	12	121917862	122003927	0.028722739	PASS
WDR7	18	56651343	57036606	-0.330515409	PASS
WDR70	5	37379212	37753435	0.073527871	PASS
WDR72	15	53513741	53762878	-0.423772929	PASS
WDR73	15	84639281	84654343	-0.759380635	PASS
WDR74	11	62832342	62841809	0.064535884	PASS
WDR75	2	189441433	189475565	-0.030005025	PASS
WDR76	15	43826963	43868419	-0.423772929	PASS
WDR77	1	111439890	111449376	0.079255572	PASS
WDR78	1	66812885	66924887	0.052232535	PASS

WDR81	17	1716523	1738599	0.06854245	PASS
WDR82	3	52254421	52288020	-0.727808231	PASS
WDR83	19	12666800	12675832	-0.069222905	PASS
WDR83OS	19	12668071	12669489	-0.069222905	PASS
WDR86	7	151375909	151410727	-0.712149877	PASS
WDR87	19	37884823	37906677	0.396324882	PASS
WDR88	19	33132090	33175795	0.044838622	PASS
WDR89	14	63597039	63641861	0.053252507	PASS
WDR90	16	649311	667833	0.053595371	PASS
WDR91	7	135183839	135211534	-0.712149877	PASS
WDR92	2	68122936	68157560	-0.46122572	PASS
WDR93	15	89690797	89743638	-0.759380635	PASS
WDR97	8	144107726	144118315	0.699132336	PASS
WDSUB1	2	159235793	159286799	0.054749241	PASS
WDTC1	1	27234516	27308633	0.048749694	PASS
WDYHV1	8	123416725	123470028	0.493344802	suppress_segment_too_large
WEE1	11	9573681	9593457	-0.39835217	PASS
WEE2	7	141708353	141731271	-0.712149877	PASS
WFDC1	16	84294646	84329851	-0.423061015	PASS
WFDC10A	20	45629526	45631196	-0.172056771	suppress_segment_too_large
WFDC10B	20	45684653	45705019	-0.172056771	suppress_segment_too_large
WFDC11	20	45648563	45670270	-0.172056771	suppress_segment_too_large
WFDC12	20	45123425	45124465	-0.172056771	suppress_segment_too_large
WFDC13	20	45702016	45708817	-0.172056771	suppress_segment_too_large
WFDC2	20	45469706	45481532	-0.172056771	suppress_segment_too_large
WFDC3	20	45747944	45791932	-0.172056771	suppress_segment_too_large
WFDC5	20	45109452	45115172	-0.172056771	suppress_segment_too_large
WFDC6	20	45534196	45539495	-0.172056771	suppress_segment_too_large
WFDC8	20	45551153	45579326	-0.172056771	suppress_segment_too_large
WFDC9	20	45607939	45631268	-0.172056771	suppress_segment_too_large
WFIKKN1	16	629239	634116	0.053595371	PASS
WFIKKN2	17	50834650	50842348	0.051798665	PASS
WFS1	4	6269849	6303265	-0.358623662	PASS
WHAMM	15	82809628	82836108	-0.759380635	PASS
WHRN	9	114402080	114505450	0.073960965	PASS
WIF1	12	65050626	65121566	-0.743220499	PASS
WIPF1	2	174559572	174682916	0.033541467	PASS
WIPF2	17	40219304	40284136	0.041294512	PASS
WIPF3	7	29806486	29917066	-0.72421718	PASS
WIPI1	17	68420948	68457513	0.051798665	PASS
WIPI2	7	5190188	5233826	-0.72421718	PASS
WISP1	8	133191039	133231690	0.493344802	suppress_segment_too_large
WISP2	20	44714844	44728509	-0.172056771	suppress_segment_too_large
WISP3	6	112054072	112070969	-0.355603029	PASS
WIZ	19	15419980	15449951	-0.069222905	PASS
WLS	1	68098473	68233120	0.052232535	PASS
WNK1	12	752593	911452	-0.015029783	PASS
WNK2	9	93184916	93320572	0.073960965	PASS
WNK3	23	54192823	54358642	0.158844052	PASS
WNK4	17	42780678	42796936	0.041294512	PASS
WNT1	12	48978453	48981676	-0.743220499	PASS
WNT10A	2	218880363	218899581	0.011001208	PASS
WNT10B	12	48965340	48971763	-0.743220499	PASS
WNT11	11	76186325	76210736	0.064535884	PASS

WNT16	7	121325367	121341104	-0.712149877	PASS
WNT2	7	117275451	117323289	-0.712149877	PASS
WNT2B	1	112466541	112530165	0.079255572	PASS
WNT3	17	46762506	46833154	0.051798665	PASS
WNT3A	1	228007051	228061260	-0.204996646	suppress_segment_too_large
WNT4	1	22117305	22143969	0.048749694	PASS
WNT5A	3	55465715	55490539	-0.727808231	PASS
WNT5B	12	1529891	1647243	-0.015029783	PASS
WNT6	2	218859821	218874233	0.011001208	PASS
WNT7A	3	13816258	13880121	0.06149513	PASS
WNT7B	22	45920362	45977129	-0.953096644	PASS
WNT8A	5	138083892	138092365	-0.393084436	PASS
WNT8B	10	100463041	100483744	-0.414937136	PASS
WNT9A	1	227918656	227947898	-0.204996646	suppress_segment_too_large
WNT9B	17	46833201	46886730	0.051798665	PASS
WRAP53	17	7686071	7703502	0.06854245	PASS
WRAP73	1	3630767	3652761	-0.358281697	PASS
WRB	21	39377698	39428528	0.209983559	PASS
WRB-SH3	21	39380332	39515506	0.209983559	PASS
WRN	8	31033801	31173769	-0.311940419	PASS
WRNIP1	6	2765414	2786952	0.069043418	PASS
WSB1	17	27294076	27315926	0.041294512	PASS
WSB2	12	118032694	118062430	0.028722739	PASS
WSCD1	17	6057807	6124427	0.06854245	PASS
WSCD2	12	108129471	108250537	0.028722739	PASS
WT1	11	32387775	32435630	-0.359426047	PASS
WTAP	6	159725585	159756319	0.033894706	PASS
WTIP	19	34481638	34512304	0.044838622	PASS
WWC1	5	168291651	168472303	0.165341871	suppress_segment_too_large
WWC2	4	183099293	183320777	-0.453876349	PASS
WWC3	23	10015562	10144478	0.158844052	PASS
WWOX	16	78099413	79212667	-0.423061015	PASS
WWP1	8	86342738	86478420	0.617295349	suppress_segment_too_large
WWP2	16	69762306	69941741	-0.423061015	PASS
WWTR1	3	149517235	149736714	0.02267528	PASS
XAB2	19	7619525	7629565	-0.071973357	PASS
XAF1	17	6755447	6775647	0.06854245	PASS
XAGE2	23	52369030	52375680	0.158844052	PASS
XAGE3	23	52862525	52868068	0.158844052	PASS
XAGE5	23	52812204	52818301	0.158844052	PASS
XBP1	22	28794555	28800597	-0.740245994	PASS
XCL1	1	168576473	168582077	0.088103245	PASS
XCL2	1	168540765	168543997	0.088103245	PASS
XCR1	3	46017024	46027742	-0.727808231	PASS
XDH	2	31334321	31414715	0.034263343	PASS
XG	23	2752048	2816500	-0.350651546	PASS
XIAP	23	123859724	123913979	0.158844052	PASS
XIRP1	3	39183210	39192596	-0.727808231	PASS
XIRP2	2	166888487	167259753	0.319987345	PASS
XK	23	37685756	37732130	0.158844052	PASS
XKR3	22	16783412	16821699	-0.740245994	PASS
XKR4	8	55102389	55542054	0.182873287	suppress_segment_too_large
XKR5	8	6808517	6835644	-0.311940419	PASS
XKR6	8	10896045	11201366	-0.311940419	PASS

XKR7	20	31968002	32003387	-0.172056771	suppress_segment_too_large
XKR8	1	27959462	27968096	0.048749694	PASS
XKR9	8	70669365	70790371	0.182873287	suppress_segment_too_large
XKRX	23	100913445	100929433	0.158844052	PASS
XPA	9	97674909	97697357	0.073960965	PASS
XPC	3	14145147	14178783	0.06149513	PASS
XPNPEP1	10	109864766	109923553	0.073090211	PASS
XPNPEP2	23	129738974	129769538	0.158844052	PASS
XPNPEP3	22	40857077	40932815	-0.740245994	PASS
XPO1	2	61477849	61538626	-0.46122572	PASS
XPO4	13	20777329	20903048	-0.398748891	PASS
XPO5	6	43522330	43576075	0.028532667	PASS
XPO6	16	28097979	28211920	0.053595371	PASS
XPO7	8	21919671	22006585	-0.311940419	PASS
XPOT	12	64404350	64451127	-0.743220499	PASS
XPR1	1	180632004	180890251	0.088103245	PASS
XRCC1	19	43543040	43580473	0.048917043	PASS
XRCC2	7	152644779	152676165	-0.77630473	PASS
XRCC3	14	103697609	103715504	-0.155273506	suppress_segment_too_large
XRCC4	5	83077498	83353787	-0.393084436	PASS
XRCC5	2	216107464	216206303	0.011001208	PASS
XRCC6	22	41621119	41664048	-0.740245994	PASS
XRN1	3	142306607	142448062	-0.889410434	PASS
XRN2	20	21303304	21389827	-0.172056771	suppress_segment_too_large
XRRA1	11	74807739	74949200	0.064535884	PASS
XXYLT1	3	195068279	195271167	0.02267528	PASS
XYLB	3	38346760	38421348	-0.727808231	PASS
XYLT1	16	17101769	17470881	0.053595371	PASS
XYLT2	17	50346092	50363138	0.051798665	PASS
YAE1	7	39566376	39610320	-0.72421718	PASS
YAF2	12	42157104	42238349	-0.46813528	PASS
YAP1	11	102110461	102233423	0.32805343	suppress_segment_too_large
YARS	1	32775237	32818153	0.048749694	PASS
YARS2	12	32727490	32755902	0.49032213	suppress_segment_too_large
YBEY	21	46286337	46297751	0.209983559	PASS
YBX1	1	42682427	42702349	-0.736943052	PASS
YBX2	17	7288252	7294615	0.06854245	PASS
YBX3	12	10699089	10723312	0.505438545	PASS
YDJC	22	21628089	21630064	-0.740245994	PASS
YEATS2	3	183697818	183812625	0.02267528	PASS
YEATS4	12	69359703	69390796	-0.743220499	PASS
YES1	18	721588	812546	0.044197172	PASS
YIF1A	11	66284580	66289170	0.064535884	PASS
YIF1B	19	38305104	38317273	0.048917043	PASS
YIPF1	1	53851719	53889834	-0.736943052	PASS
YIPF2	19	10922185	10928681	-0.107594294	PASS
YIPF3	6	43511827	43516990	0.028532667	PASS
YIPF4	2	32277910	32316594	0.034263343	PASS
YIPF5	5	144158159	144170714	-0.393084436	PASS
YIPF6	23	68498323	68537285	0.158844052	PASS
YIPF7	4	44622065	44678556	-0.317525751	PASS
YJEFN3	19	19528861	19537581	-0.069222905	PASS
YJU2	19	4247079	4269090	-0.071973357	PASS
YKT6	7	44200968	44214294	-0.72421718	PASS

YLPM1	14	74763366	74859435	-0.155273506	suppress_segment_too_large
YME1L1	10	27110112	27155266	0.075711544	PASS
YOD1	1	207043849	207052980	-0.204996646	suppress_segment_too_large
YPEL1	22	21697544	21735834	-0.740245994	PASS
YPEL2	17	59331689	59401729	0.051798665	PASS
YPEL3	16	30092314	30096915	0.053595371	PASS
YPEL4	11	57645087	57649944	0.27006553	suppress_segment_too_large
YPEL5	2	30146941	30160533	0.034263343	PASS
YRDC	1	37802944	37808185	0.048749694	PASS
YTHDC1	4	68310387	68350089	0.115781418	suppress_segment_too_large
YTHDC2	5	113513683	113595285	-0.393084436	PASS
YTHDF1	20	63195429	63216234	-0.172056771	suppress_segment_too_large
YTHDF2	1	28736621	28769775	0.048749694	PASS
YTHDF3	8	63168553	63212786	0.182873287	suppress_segment_too_large
YWHAB	20	44885676	44908532	-0.172056771	suppress_segment_too_large
YWHAE	17	1344272	1400378	0.06854245	PASS
YWHAG	7	76326794	76359031	-0.701511252	PASS
YWHAH	22	31944461	31957603	-0.740245994	PASS
YWHAQ	2	9583972	9631014	0.034263343	PASS
YWHAZ	8	100916525	100953388	0.355469066	suppress_segment_too_large
YY1	14	100238298	100282792	-0.155273506	suppress_segment_too_large
YY1AP1	1	155659443	155689000	0.088103245	PASS
YY2	23	21855987	21858727	0.158844052	PASS
Z82190.2	22	31754899	31956243	-0.740245994	PASS
Z83844.1	22	37686414	37726503	-0.740245994	PASS
Z83844.3	22	37639693	37666932	-0.740245994	PASS
Z84488.2	6	116399395	116463696	-0.355603029	PASS
Z84492.1	3	50350892	50367923	-0.727808231	PASS
Z98752.3	20	43540171	43569498	-0.172056771	suppress_segment_too_large
ZACN	17	76071961	76083666	0.051798665	PASS
ZADH2	18	75195108	75209348	-0.330515409	PASS
ZAN	7	100733626	100797797	-0.710463272	PASS
ZAP70	2	97713560	97739862	0.064122364	PASS
ZAR1	4	48490252	48494389	0.115781418	suppress_segment_too_large
ZAR1L	13	32303700	32315344	-0.398748891	PASS
ZBBX	3	167240287	167381346	0.02267528	PASS
ZBED1	23	2486414	2500967	-0.350651546	PASS
ZBED2	3	111592900	111595443	0.22470242	PASS
ZBED3	5	77072072	77087323	-0.393084436	PASS
ZBED4	22	49853842	49890078	-0.953096644	PASS
ZBED5	11	10812074	10858796	-0.39835217	PASS
ZBED6	1	203795714	203854999	-0.204996646	suppress_segment_too_large
ZBED6CL	7	150329789	150332721	-0.712149877	PASS
ZBED8	5	160393148	160400097	0.165341871	suppress_segment_too_large
ZBED9	6	28570535	28616212	0.069043418	PASS
ZBP1	20	57603846	57620576	-0.172056771	suppress_segment_too_large
ZBTB1	14	64503712	64533690	0.053252507	PASS
ZBTB10	8	80485619	80526265	0.617295349	suppress_segment_too_large
ZBTB11	3	101648889	101677495	0.22470242	PASS
ZBTB12	6	31899607	31901992	0.028532667	PASS
ZBTB14	18	5289019	5297053	0.044197172	PASS
ZBTB16	11	114059593	114250676	-0.431650509	PASS
ZBTB17	1	15941869	15976132	0.048749694	PASS
ZBTB18	1	244048939	244057476	-0.145670469	suppress_likely_unfocal_large_gain

ZBTB2	6	151364117	151391548	0.033894706	PASS
ZBTB20	3	114314501	115147271	0.06434429	PASS
ZBTB21	21	41986831	42010387	0.209983559	PASS
ZBTB22	6	33314406	33317942	0.028532667	PASS
ZBTB24	6	109462594	109483237	-0.355603029	PASS
ZBTB25	14	64449106	64505213	0.053252507	PASS
ZBTB26	9	122915566	122931500	0.073960965	PASS
ZBTB3	11	62748319	62754188	0.064535884	PASS
ZBTB32	19	35704527	35717038	0.044838622	PASS
ZBTB33	23	120250752	120258398	0.158844052	PASS
ZBTB34	9	126860665	126885878	0.073960965	PASS
ZBTB37	1	173868082	173903549	0.088103245	PASS
ZBTB38	3	141324213	141449792	-0.889410434	PASS
ZBTB39	12	56998834	57006446	-0.743220499	PASS
ZBTB4	17	7459366	7484263	0.06854245	PASS
ZBTB40	1	22428838	22531157	0.048749694	PASS
ZBTB41	1	197153680	197200542	0.088103245	PASS
ZBTB42	14	104800596	104804712	-0.155273506	suppress_segment_too_large
ZBTB43	9	126805006	126838210	0.073960965	PASS
ZBTB44	11	130226677	130314908	-0.431650509	PASS
ZBTB45	19	58513530	58538911	0.142581352	PASS
ZBTB46	20	63743666	63831244	-0.172056771	suppress_segment_too_large
ZBTB47	3	42653684	42665854	-0.727808231	PASS
ZBTB48	1	6580001	6589280	0.364796772	PASS
ZBTB49	4	4290251	4321786	-0.358623662	PASS
ZBTB5	9	37438114	37465399	0.073960965	PASS
ZBTB6	9	122908056	122913330	0.073960965	PASS
ZBTB7A	19	4044364	4066945	-0.071973357	PASS
ZBTB7B	1	155002630	155018522	0.088103245	PASS
ZBTB7C	18	48026673	48410752	-0.330515409	PASS
ZBTB8A	1	32539427	32605939	0.048749694	PASS
ZBTB8B	1	32465069	32496686	0.048749694	PASS
ZBTB8OS	1	32600172	32650903	0.048749694	PASS
ZBTB9	6	33453970	33457548	0.028532667	PASS
ZC2HC1A	8	78666047	78719765	0.617295349	suppress_segment_too_large
ZC2HC1B	6	143864436	143938356	0.033894706	PASS
ZC2HC1C	14	75064170	75079987	-0.155273506	suppress_segment_too_large
ZC3H10	12	56118159	56127514	-0.743220499	PASS
ZC3H11A	1	203795654	203854999	-0.204996646	suppress_segment_too_large
ZC3H12A	1	37474552	37484379	0.048749694	PASS
ZC3H12B	23	65366638	65507887	0.158844052	PASS
ZC3H12C	11	110093361	110171841	-0.431650509	PASS
ZC3H12D	6	149446795	149485061	0.033894706	PASS
ZC3H13	13	45954465	46052759	-0.398748891	PASS
ZC3H14	14	88562909	88627596	-0.155273506	suppress_segment_too_large
ZC3H15	2	186486156	186509363	-0.120408457	PASS
ZC3H18	16	88570381	88631966	-0.423061015	PASS
ZC3H3	8	143437655	143541453	0.699132336	PASS
ZC3H4	19	47064187	47113752	0.002743503	PASS
ZC3H6	2	112275594	112340063	0.040971718	PASS
ZC3H7A	16	11750586	11797267	0.053595371	PASS
ZC3H7B	22	41301522	41360147	-0.740245994	PASS
ZC3H8	2	112211525	112255136	0.040971718	PASS
ZC3HAV1	7	139043520	139109719	-0.712149877	PASS

ZC3HAV1	7	139025706	139036029	-0.712149877	PASS
ZC3HC1	7	130018286	130051451	-0.712149877	PASS
ZC4H2	23	64915802	65034713	0.158844052	PASS
ZCCHC10	5	132996985	133026604	-0.393084436	PASS
ZCCHC12	23	118823790	118826968	0.158844052	PASS
ZCCHC13	23	74304190	74305031	0.158844052	PASS
ZCCHC14	16	87406246	87492045	-0.423061015	PASS
ZCCHC17	1	31296982	31364953	0.048749694	PASS
ZCCHC18	23	104112131	104115846	0.158844052	PASS
ZCCHC2	18	62523007	62587709	-0.330515409	PASS
ZCCHC24	10	79382325	79445627	0.032351597	PASS
ZCCHC3	20	296968	300321	-0.172056771	suppress_segment_too_large
ZCCHC4	4	25312785	25370383	-0.358623662	PASS
ZCCHC7	9	37120539	37358149	0.073960965	PASS
ZCCHC8	12	122471600	122501073	0.028722739	PASS
ZCCHC9	5	81301590	81313297	-0.393084436	PASS
ZCRB1	12	42312078	42326118	-0.46813528	PASS
ZCWPW1	7	100400826	100428992	-0.710463272	PASS
ZCWPW2	3	28349146	28538122	0.06149513	PASS
ZDBF2	2	206274663	206314438	0.011001208	PASS
ZDHHC1	16	67394152	67416833	-0.423061015	PASS
ZDHHC11	5	795606	850986	0.073527871	PASS
ZDHHC11	5	710360	766952	0.073527871	PASS
ZDHHC12	9	128720869	128724127	0.073960965	PASS
ZDHHC13	11	19117099	19176422	-0.39835217	PASS
ZDHHC14	6	157381133	157678146	0.033894706	PASS
ZDHHC15	23	75368427	75523502	0.158844052	PASS
ZDHHC16	10	97446131	97457370	-0.414937136	PASS
ZDHHC17	12	76763588	76853696	0.271127429	suppress_segment_too_large
ZDHHC18	1	26826710	26857602	0.048749694	PASS
ZDHHC19	3	196197449	196211437	0.02267528	PASS
ZDHHC2	8	17156029	17224799	-0.311940419	PASS
ZDHHC20	13	21372573	21459370	-0.398748891	PASS
ZDHHC21	9	14611071	14693471	0.073960965	PASS
ZDHHC22	14	77131270	77142734	-0.155273506	suppress_segment_too_large
ZDHHC23	3	113947901	113965401	0.06434429	PASS
ZDHHC24	11	66520637	66546238	0.064535884	PASS
ZDHHC3	3	44915257	44976185	-0.727808231	PASS
ZDHHC4	7	6577434	6589374	-0.72421718	PASS
ZDHHC5	11	57667747	57701187	0.27006553	suppress_segment_too_large
ZDHHC6	10	112424428	112446917	0.073090211	PASS
ZDHHC7	16	84974181	85011535	-0.423061015	PASS
ZDHHC8	22	20129456	20148007	-0.740245994	PASS
ZDHHC9	23	129803288	129843909	0.158844052	PASS
ZEB1	10	31318495	31529814	0.075711544	PASS
ZEB2	2	144364364	144524583	-0.30549516	PASS
ZER1	9	128729786	128772414	0.073960965	PASS
ZFAND1	8	81701334	81732903	0.617295349	suppress_segment_too_large
ZFAND2A	7	1152071	1160759	-0.72421718	PASS
ZFAND2B	2	219195237	219209651	0.011001208	PASS
ZFAND3	6	37819499	38154624	0.028532667	PASS
ZFAND4	10	45615501	45672780	-0.389033546	PASS
ZFAND5	9	72351425	72365235	0.073960965	PASS
ZFAND6	15	80059568	80138393	-0.759380635	PASS

ZFAT	8	134477788	134713049	0.493344802	suppress_segment_too_large
ZFC3H1	12	71609472	71667725	-0.578548701	PASS
ZFHX2	14	23520855	23556192	0.053252507	PASS
ZFHX3	16	72782885	73891871	-0.423061015	PASS
ZFHX4	8	76681219	76867285	0.182873287	suppress_segment_too_large
ZFP1	16	75148492	75172236	-0.423061015	PASS
ZFP14	19	36334453	36379199	0.396324882	PASS
ZFP2	5	178895894	178933212	0.165341871	suppress_segment_too_large
ZFP28	19	56538948	56556810	0.142581352	PASS
ZFP3	17	5078248	5096374	0.06854245	PASS
ZFP30	19	37613749	37692337	0.396324882	PASS
ZFP36	19	39406813	39409412	0.048917043	PASS
ZFP36L1	14	68787660	68796253	0.053252507	PASS
ZFP36L2	2	43222402	43226609	0.034263343	PASS
ZFP37	9	113038380	113056759	0.073960965	PASS
ZFP41	8	143246821	143262705	0.699132336	PASS
ZFP42	4	187995771	188005050	0.275137421	PASS
ZFP57	6	29672392	29681110	0.069043418	PASS
ZFP62	5	180847611	180861285	0.165341871	suppress_segment_too_large
ZFP64	20	52051663	52204308	-0.172056771	suppress_segment_too_large
ZFP69	1	40477215	40496343	0.048749694	PASS
ZFP69B	1	40450102	40463718	0.048749694	PASS
ZFP82	19	36383120	36418656	0.396324882	PASS
ZFP90	16	68530090	68576072	-0.423061015	PASS
ZFP91	11	58579111	58621042	0.27006553	suppress_segment_too_large
ZFP91-CN	11	58579172	58624639	0.27006553	suppress_segment_too_large
ZFP92	23	153418322	153426481	0.158844052	PASS
ZFPL1	11	65084210	65088400	0.064535884	PASS
ZFPM1	16	88453317	88537016	-0.423061015	PASS
ZFPM2	8	104590733	105804532	0.70944438	suppress_segment_too_large
ZFR	5	32354350	32444761	0.073527871	PASS
ZFR2	19	3804024	3869032	-0.071973357	PASS
ZFX	23	24149173	24216255	0.158844052	PASS
ZFYVE1	14	72969451	73027212	0.053252507	PASS
ZFYVE16	5	80408013	80479350	-0.393084436	PASS
ZFYVE19	15	40807086	40815084	-0.423772929	PASS
ZFYVE21	14	103715730	103733668	-0.155273506	suppress_segment_too_large
ZFYVE26	14	67727374	67816590	0.053252507	PASS
ZFYVE27	10	97737121	97760907	-0.414937136	PASS
ZFYVE28	4	2269582	2418663	-0.358623662	PASS
ZFYVE9	1	52142094	52346686	-0.736943052	PASS
ZG16	16	29778240	29782973	0.053595371	PASS
ZG16B	16	2830169	2839585	0.053595371	PASS
ZGLP1	19	10304803	10309880	-0.107594294	PASS
ZGPAT	20	63707465	63736142	-0.172056771	suppress_segment_too_large
ZGRF1	4	112539333	112636995	-0.677982248	PASS
ZHX1	8	123248451	123275541	0.493344802	suppress_segment_too_large
ZHX1-C8o	8	123226189	123274284	0.493344802	suppress_segment_too_large
ZHX2	8	122781394	122974512	0.493344802	suppress_segment_too_large
ZHX3	20	41178448	41317672	-0.172056771	suppress_segment_too_large
ZIC1	3	147393422	147510293	0.02267528	PASS
ZIC2	13	99981772	99986773	-0.384313056	PASS
ZIC3	23	137566142	137577691	0.158844052	PASS
ZIC4	3	147386046	147406860	0.02267528	PASS

ZIC5	13	99962964	99971909	-0.384313056	PASS
ZIK1	19	57578456	57593777	0.142581352	PASS
ZIM2	19	56774547	56840729	0.142581352	PASS
ZIM3	19	57134096	57145202	0.142581352	PASS
ZKSCAN1	7	100015572	100041689	-0.710463272	PASS
ZKSCAN2	16	25236001	25257931	0.053595371	PASS
ZKSCAN3	6	28349914	28369177	0.069043418	PASS
ZKSCAN4	6	28244623	28252224	0.069043418	PASS
ZKSCAN5	7	99504651	99534700	-0.710463272	PASS
ZKSCAN7	3	44555193	44594173	-0.727808231	PASS
ZKSCAN8	6	28141910	28159472	0.069043418	PASS
ZMAT1	23	101882288	101932031	0.158844052	PASS
ZMAT2	5	140698680	140706676	-0.393084436	PASS
ZMAT3	3	179017223	179072279	0.02267528	PASS
ZMAT4	8	40530590	40897833	0.182873287	suppress_segment_too_large
ZMAT5	22	29730956	29767011	-0.740245994	PASS
ZMIZ1	10	79069035	79316528	0.032351597	PASS
ZMIZ2	7	44748581	44769881	-0.72421718	PASS
ZMPSTE2	1	40258107	40294184	0.048749694	PASS
ZMYM1	1	35032172	35115859	0.048749694	PASS
ZMYM2	13	19958670	20091829	-0.398748891	PASS
ZMYM3	23	71239624	71255146	0.158844052	PASS
ZMYM4	1	35268967	35422058	0.048749694	PASS
ZMYM5	13	19823482	19863636	-0.398748891	PASS
ZMYM6	1	34986165	35031968	0.048749694	PASS
ZMYND1(	3	50341110	50346852	-0.727808231	PASS
ZMYND11	10	134465	254637	0.075711544	PASS
ZMYND12	1	42430329	42456267	-0.736943052	PASS
ZMYND15	17	4740015	4746119	0.06854245	PASS
ZMYND19	9	137582079	137590490	0.073960965	PASS
ZMYND8	20	47209214	47356889	-0.172056771	suppress_segment_too_large
ZNF10	12	133130575	133159465	0.232349073	PASS
ZNF100	19	21722766	21767628	-0.069222905	PASS
ZNF101	19	19668796	19683509	-0.069222905	PASS
ZNF106	15	42412823	42491141	-0.423772929	PASS
ZNF107	7	64666083	64711582	-0.701511252	PASS
ZNF112	19	44326555	44367217	0.415645458	PASS
ZNF114	19	48270102	48287608	0.002743503	PASS
ZNF117	7	64971776	65006684	-0.701511252	PASS
ZNF12	7	6688433	6706923	-0.72421718	PASS
ZNF121	19	9560353	9584533	0.31140559	PASS
ZNF124	1	247121975	247172016	-0.145670469	suppress_likely_unfocal_large_gain
ZNF131	5	43065176	43192021	-0.284712224	PASS
ZNF132	19	58432814	58440222	0.142581352	PASS
ZNF133	20	18288283	18316996	-0.172056771	suppress_segment_too_large
ZNF134	19	57614233	57624723	0.142581352	PASS
ZNF135	19	58059239	58086310	0.142581352	PASS
ZNF136	19	12163064	12189881	0.391988834	PASS
ZNF138	7	64794388	64833681	-0.701511252	PASS
ZNF14	19	19710471	19733097	-0.069222905	PASS
ZNF140	12	133079838	133107544	0.232349073	PASS
ZNF141	4	337814	384864	-0.358623662	PASS
ZNF142	2	218637916	218659655	0.011001208	PASS
ZNF143	11	9460319	9528524	-0.39835217	PASS

ZNF146	19	36214602	36238774	0.396324882	PASS
ZNF148	3	125225561	125375354	0.06434429	PASS
ZNF154	19	57697367	57709194	0.142581352	PASS
ZNF155	19	43967862	43998325	0.415645458	PASS
ZNF157	23	47370583	47414305	0.158844052	PASS
ZNF16	8	144930358	144950888	0.699132336	PASS
ZNF160	19	53066606	53103436	0.416834572	PASS
ZNF165	6	28080975	28089563	0.069043418	PASS
ZNF169	9	94259311	94301454	0.073960965	PASS
ZNF17	19	57411163	57421939	0.142581352	PASS
ZNF174	16	3401235	3409370	0.053595371	PASS
ZNF175	19	51571298	51592508	0.002743503	PASS
ZNF177	19	9363020	9382617	0.31140559	PASS
ZNF18	17	11977439	11997510	0.06854245	PASS
ZNF180	19	44474428	44500524	0.415645458	PASS
ZNF181	19	34734155	34745378	0.044838622	PASS
ZNF182	23	47974851	48003978	0.158844052	PASS
ZNF184	6	27450743	27473118	0.069043418	PASS
ZNF185	23	152914442	152973480	0.158844052	PASS
ZNF189	9	101398873	101410660	0.073960965	PASS
ZNF19	16	71464555	71565089	-0.423061015	PASS
ZNF195	11	3339261	3379222	-0.39835217	PASS
ZNF197	3	44584888	44648471	-0.727808231	PASS
ZNF2	2	95165432	95184317	0.064122364	PASS
ZNF20	19	12092843	12140407	0.391988834	PASS
ZNF200	16	3222325	3236221	0.053595371	PASS
ZNF202	11	123724177	123741675	-0.431650509	PASS
ZNF205	16	3112560	3120517	0.053595371	PASS
ZNF207	17	32350117	32381886	0.041294512	PASS
ZNF208	19	21932958	22010949	-0.069222905	PASS
ZNF211	19	57630395	57642779	0.142581352	PASS
ZNF212	7	149239651	149255609	-0.712149877	PASS
ZNF213	16	3129777	3142805	0.053595371	PASS
ZNF214	11	6999318	7020368	-0.39835217	PASS
ZNF215	11	6926404	7001004	-0.39835217	PASS
ZNF217	20	53567065	53609907	-0.172056771	suppress_segment_too_large
ZNF219	14	21090046	21104722	0.053252507	PASS
ZNF22	10	45000475	45005326	-0.389033546	PASS
ZNF221	19	43951223	43967709	0.415645458	PASS
ZNF222	19	44025342	44033112	0.415645458	PASS
ZNF223	19	44051367	44067991	0.415645458	PASS
ZNF224	19	44094339	44109886	0.415645458	PASS
ZNF225	19	44112181	44134816	0.415645458	PASS
ZNF226	19	44165073	44178381	0.415645458	PASS
ZNF227	19	44207547	44237268	0.415645458	PASS
ZNF229	19	44417519	44448578	0.415645458	PASS
ZNF23	16	71447597	71463095	-0.423061015	PASS
ZNF230	19	44002948	44013926	0.415645458	PASS
ZNF232	17	5105541	5123116	0.06854245	PASS
ZNF233	19	44259880	44275317	0.415645458	PASS
ZNF234	19	44141557	44160309	0.415645458	PASS
ZNF235	19	44228729	44305046	0.415645458	PASS
ZNF236	18	76822607	76970727	-0.330515409	PASS
ZNF239	10	43556344	43574618	-0.389033546	PASS

ZNF24	18	35332212	35345482	-0.330515409	PASS
ZNF248	10	37776526	37858106	0.075711544	PASS
ZNF25	10	37949572	37976633	0.075711544	PASS
ZNF250	8	144876497	144902168	0.699132336	PASS
ZNF251	8	144720907	144756417	0.699132336	PASS
ZNF253	19	19865886	19894674	-0.069222905	PASS
ZNF254	19	24033405	24129961	0.044838622	PASS
ZNF256	19	57940833	57947675	0.142581352	PASS
ZNF257	19	22052452	22091480	0.044838622	PASS
ZNF26	12	132986365	133032952	0.232349073	PASS
ZNF260	19	36510695	36528660	0.396324882	PASS
ZNF263	16	3263800	3301401	0.053595371	PASS
ZNF264	19	57191500	57222846	0.142581352	PASS
ZNF266	19	9412461	9435578	0.31140559	PASS
ZNF267	16	31873758	31917357	0.053595371	PASS
ZNF268	12	133181409	133214831	0.232349073	PASS
ZNF273	7	64870172	64930966	-0.701511252	PASS
ZNF274	19	58183029	58213562	0.142581352	PASS
ZNF275	23	153334147	153360110	0.158844052	PASS
ZNF276	16	89720400	89740903	-0.423061015	PASS
ZNF277	7	112206588	112343096	-0.712149877	PASS
ZNF28	19	52797409	52857600	0.416834572	PASS
ZNF280A	22	22513736	22520270	-0.740245994	PASS
ZNF280B	22	22484421	22509154	-0.740245994	PASS
ZNF280C	23	130202711	130268899	0.158844052	PASS
ZNF280D	15	56630181	56734086	-0.759380635	PASS
ZNF281	1	200404940	200410056	0.088103245	PASS
ZNF282	7	149195485	149226248	-0.712149877	PASS
ZNF283	19	43827292	43852017	0.048917043	PASS
ZNF284	19	44072144	44089613	0.415645458	PASS
ZNF285	19	44382298	44401608	0.415645458	PASS
ZNF286A	17	15699577	15720787	0.06854245	PASS
ZNF286B	17	18658429	18682262	0.06854245	PASS
ZNF287	17	16551387	16569206	0.06854245	PASS
ZNF292	6	87152833	87264196	-0.355603029	PASS
ZNF296	19	45071500	45076588	0.002743503	PASS
ZNF3	7	100064033	100082548	-0.710463272	PASS
ZNF30	19	34926903	34945170	0.044838622	PASS
ZNF300	5	150894392	150904983	-0.393084436	PASS
ZNF302	19	34677639	34686397	0.044838622	PASS
ZNF304	19	57351307	57359898	0.142581352	PASS
ZNF311	6	28994785	29005316	0.069043418	PASS
ZNF316	7	6637322	6656432	-0.72421718	PASS
ZNF317	19	9140380	9163424	0.31140559	PASS
ZNF318	6	43307134	43369478	0.028532667	PASS
ZNF319	16	57994668	58000453	-0.423061015	PASS
ZNF32	10	43643859	43648856	-0.389033546	PASS
ZNF320	19	52863790	52897693	0.416834572	PASS
ZNF322	6	26634383	26659752	0.069043418	PASS
ZNF324	19	58467045	58475436	0.142581352	PASS
ZNF324B	19	58451604	58457833	0.142581352	PASS
ZNF326	1	89995112	90035531	0.079255572	PASS
ZNF329	19	58126252	58155110	0.142581352	PASS
ZNF330	4	141220887	141234697	0.142431244	suppress_segment_too_large

ZNF331	19	53519527	53580269	0.142581352	PASS
ZNF333	19	14689801	14733746	-0.069222905	PASS
ZNF334	20	46499630	46513559	-0.172056771	suppress_segment_too_large
ZNF335	20	45948653	45972172	-0.172056771	suppress_segment_too_large
ZNF337	20	25674215	25696841	-0.172056771	suppress_segment_too_large
ZNF33A	10	38010650	38065088	0.075711544	PASS
ZNF33B	10	42574185	42638568	0.075711544	PASS
ZNF34	8	144773114	144787345	0.699132336	PASS
ZNF341	20	33731657	33792269	-0.172056771	suppress_segment_too_large
ZNF343	20	2481817	2524702	-0.172056771	suppress_segment_too_large
ZNF345	19	36850361	36913029	0.396324882	PASS
ZNF346	5	177022696	177081189	0.165341871	suppress_segment_too_large
ZNF347	19	53124072	53159075	0.416834572	PASS
ZNF35	3	44648727	44660791	-0.727808231	PASS
ZNF350	19	51964343	51986856	0.416834572	PASS
ZNF354A	5	178711592	178730702	0.165341871	suppress_segment_too_large
ZNF354B	5	178859953	178888122	0.165341871	suppress_segment_too_large
ZNF354C	5	179060415	179083537	0.165341871	suppress_segment_too_large
ZNF358	19	7515292	7521026	-0.071973357	PASS
ZNF362	1	33256545	33300719	0.048749694	PASS
ZNF365	10	62374192	62670301	0.032351597	PASS
ZNF366	5	72442652	72507727	-0.393084436	PASS
ZNF367	9	96385941	96418329	0.073960965	PASS
ZNF37A	10	38094334	38150293	0.075711544	PASS
ZNF382	19	36604817	36634113	0.396324882	PASS
ZNF383	19	37217926	37248738	0.396324882	PASS
ZNF384	12	6666477	6689572	-0.015029783	PASS
ZNF385A	12	54369133	54391298	-0.743220499	PASS
ZNF385B	2	179441982	179861505	0.162734012	PASS
ZNF385C	17	42025576	42098479	0.041294512	PASS
ZNF385D	3	21412222	22373321	0.06149513	PASS
ZNF391	6	27374615	27403904	0.069043418	PASS
ZNF394	7	99486519	99500324	-0.710463272	PASS
ZNF395	8	28345585	28402701	-0.311940419	PASS
ZNF396	18	35366697	35377337	-0.330515409	PASS
ZNF397	18	35241030	35267133	-0.330515409	PASS
ZNF398	7	149126416	149182802	-0.712149877	PASS
ZNF404	19	43872363	43901385	0.415645458	PASS
ZNF407	18	74597870	75065671	-0.330515409	PASS
ZNF408	11	46700818	46705912	0.059795455	PASS
ZNF41	23	47445879	47482946	0.158844052	PASS
ZNF410	14	73886617	73932511	0.053252507	PASS
ZNF414	19	8509678	8514164	-0.071973357	PASS
ZNF415	19	53107879	53133077	0.416834572	PASS
ZNF416	19	57571566	57578927	0.142581352	PASS
ZNF417	19	57900296	57916610	0.142581352	PASS
ZNF418	19	57921884	57935393	0.142581352	PASS
ZNF419	19	57487711	57496097	0.142581352	PASS
ZNF420	19	37007857	37130314	0.396324882	PASS
ZNF423	16	49487524	49857919	0.411512417	PASS
ZNF425	7	149102784	149126346	-0.712149877	PASS
ZNF426	19	9523224	9538645	0.31140559	PASS
ZNF428	19	43607219	43619874	0.048917043	PASS
ZNF429	19	21496682	21556270	-0.069222905	PASS

ZNF43	19	21804949	21852125	-0.069222905	PASS
ZNF430	19	21020620	21060050	-0.069222905	PASS
ZNF431	19	21142024	21196053	-0.069222905	PASS
ZNF432	19	52031379	52095738	0.416834572	PASS
ZNF433	19	12014732	12035741	0.391988834	PASS
ZNF436	1	23359448	23369442	0.048749694	PASS
ZNF438	10	30820207	31031937	0.075711544	PASS
ZNF439	19	11848726	11883750	0.391988834	PASS
ZNF44	19	12224686	12294887	0.391988834	PASS
ZNF440	19	11814284	11835201	0.391988834	PASS
ZNF441	19	11767000	11784078	0.391988834	PASS
ZNF442	19	12345949	12365905	0.391988834	PASS
ZNF443	19	12429707	12441112	0.391988834	PASS
ZNF444	19	56132599	56160893	0.142581352	PASS
ZNF445	3	44431720	44477670	-0.727808231	PASS
ZNF446	19	58474017	58481230	0.142581352	PASS
ZNF449	23	135344796	135363152	0.158844052	PASS
ZNF45	19	43912629	43935278	0.415645458	PASS
ZNF451	6	57086844	57170307	0.239805577	suppress_segment_too_large
ZNF454	5	178941191	178966433	0.165341871	suppress_segment_too_large
ZNF460	19	57280051	57293569	0.142581352	PASS
ZNF461	19	36637192	36666853	0.396324882	PASS
ZNF462	9	106863097	107013634	0.073960965	PASS
ZNF467	7	149764182	149773479	-0.712149877	PASS
ZNF468	19	52838008	52890375	0.416834572	PASS
ZNF469	16	88427471	88440757	-0.423061015	PASS
ZNF470	19	56567511	56588911	0.142581352	PASS
ZNF471	19	56507843	56530221	0.142581352	PASS
ZNF473	19	50025714	50053414	0.002743503	PASS
ZNF474	5	122129513	122153571	-0.393084436	PASS
ZNF479	7	57119614	57139864	-0.701511252	PASS
ZNF48	16	30378106	30400108	0.053595371	PASS
ZNF480	19	52297177	52325922	0.416834572	PASS
ZNF483	9	111525159	111577844	0.073960965	PASS
ZNF484	9	92845031	92878038	0.073960965	PASS
ZNF485	10	43606407	43617903	-0.389033546	PASS
ZNF486	19	20167228	20200490	-0.069222905	PASS
ZNF487	10	43436841	43483179	-0.389033546	PASS
ZNF488	10	47365496	47384273	-0.389033546	PASS
ZNF490	19	12577961	12640098	0.391988834	PASS
ZNF491	19	11797667	11809622	0.391988834	PASS
ZNF492	19	22634324	22667670	0.044838622	PASS
ZNF493	19	21397119	21427573	-0.069222905	PASS
ZNF496	1	247297412	247331846	-0.145670469	suppress_likely_unfocal_large_gain
ZNF497	19	58354357	58362848	0.142581352	PASS
ZNF500	16	4748239	4767624	0.053595371	PASS
ZNF501	3	44729596	44737083	-0.727808231	PASS
ZNF502	3	44712643	44723831	-0.727808231	PASS
ZNF503	10	75397830	75401906	0.032351597	PASS
ZNF506	19	19785839	19821751	-0.069222905	PASS
ZNF507	19	32345594	32387667	0.044838622	PASS
ZNF510	9	96755865	96778129	0.073960965	PASS
ZNF511	10	133308475	133313162	0.073090211	PASS
ZNF511-PI	10	133309410	133352529	0.073090211	PASS

ZNF512	2	27582969	27623215	0.034263343	PASS
ZNF512B	20	63956702	63969865	-0.172056771	suppress_segment_too_large
ZNF513	2	27377231	27380790	0.034263343	PASS
ZNF514	2	95147330	95165413	0.064122364	PASS
ZNF516	18	76358190	76495190	-0.330515409	PASS
ZNF517	8	144798876	144811169	0.699132336	PASS
ZNF518A	10	96129715	96205288	-0.414937136	PASS
ZNF518B	4	10439874	10457410	-0.358623662	PASS
ZNF519	18	14057457	14132490	0.044197172	PASS
ZNF521	18	25061926	25352190	-0.330515409	PASS
ZNF524	19	55600022	55603138	0.142581352	PASS
ZNF525	19	53365693	53392217	0.416834572	PASS
ZNF526	19	42220271	42228201	0.048917043	PASS
ZNF527	19	37371061	37393066	0.396324882	PASS
ZNF528	19	52397849	52418412	0.416834572	PASS
ZNF529	19	36534774	36605276	0.396324882	PASS
ZNF530	19	57599885	57612722	0.142581352	PASS
ZNF532	18	58862600	58986480	-0.330515409	PASS
ZNF534	19	52429187	52452315	0.416834572	PASS
ZNF536	19	30228290	30713538	0.044838622	PASS
ZNF540	19	37551406	37614097	0.396324882	PASS
ZNF541	19	47520685	47555856	0.002743503	PASS
ZNF543	19	57320509	57330776	0.142581352	PASS
ZNF544	19	58228594	58277495	0.142581352	PASS
ZNF546	19	39984134	40021041	0.048917043	PASS
ZNF547	19	57363477	57379565	0.142581352	PASS
ZNF548	19	57389850	57402992	0.142581352	PASS
ZNF549	19	57527325	57557542	0.142581352	PASS
ZNF550	19	57535257	57559863	0.142581352	PASS
ZNF551	19	57681969	57717301	0.142581352	PASS
ZNF552	19	57803841	57814913	0.142581352	PASS
ZNF554	19	2819874	2835773	-0.071973357	PASS
ZNF555	19	2841435	2860484	-0.071973357	PASS
ZNF556	19	2867335	2883445	-0.071973357	PASS
ZNF557	19	7069444	7087968	-0.071973357	PASS
ZNF558	19	8806170	8832328	-0.071973357	PASS
ZNF559	19	9323772	9351162	0.31140559	PASS
ZNF559-ZI	19	9324174	9382617	0.31140559	PASS
ZNF560	19	9466507	9498607	0.31140559	PASS
ZNF561	19	9604680	9621399	0.31140559	PASS
ZNF562	19	9641808	9675086	0.31140559	PASS
ZNF563	19	12317477	12333720	0.391988834	PASS
ZNF564	19	12525370	12551542	0.391988834	PASS
ZNF565	19	36182060	36246257	0.396324882	PASS
ZNF566	19	36445119	36489902	0.396324882	PASS
ZNF567	19	36687612	36727701	0.396324882	PASS
ZNF568	19	36916329	36998700	0.396324882	PASS
ZNF569	19	37411155	37469275	0.396324882	PASS
ZNF57	19	2900898	2918476	-0.071973357	PASS
ZNF570	19	37467585	37488652	0.396324882	PASS
ZNF571	19	37554782	37594790	0.396324882	PASS
ZNF572	8	124973298	124979389	0.493344802	suppress_segment_too_large
ZNF573	19	37735833	37817300	0.396324882	PASS
ZNF574	19	42068477	42081549	0.048917043	PASS

ZNF575	19	43525497	43536130	0.048917043	PASS
ZNF576	19	43596392	43601157	0.048917043	PASS
ZNF577	19	51804816	51890950	0.416834572	PASS
ZNF578	19	52453576	52512154	0.416834572	PASS
ZNF579	19	55576770	55580845	0.142581352	PASS
ZNF580	19	55635016	55643469	0.142581352	PASS
ZNF581	19	55635459	55645622	0.142581352	PASS
ZNF582	19	56375846	56393545	0.142581352	PASS
ZNF583	19	56397966	56436035	0.142581352	PASS
ZNF584	19	58401504	58418327	0.142581352	PASS
ZNF585A	19	37106734	37172741	0.396324882	PASS
ZNF585B	19	37181579	37218153	0.396324882	PASS
ZNF586	19	57769655	57819939	0.142581352	PASS
ZNF587	19	57849857	57865112	0.142581352	PASS
ZNF587B	19	57819741	57846238	0.142581352	PASS
ZNF589	3	48241100	48299253	-0.727808231	PASS
ZNF592	15	84748635	84806432	-0.759380635	PASS
ZNF593	1	26169871	26170873	0.048749694	PASS
ZNF594	17	5179536	5191883	0.06854245	PASS
ZNF595	4	53285	88211	-0.358623662	PASS
ZNF596	8	232137	264703	0.250463792	PASS
ZNF597	16	3432422	3443553	0.053595371	PASS
ZNF598	16	1997654	2009823	0.053595371	PASS
ZNF599	19	34758076	34773229	0.044838622	PASS
ZNF600	19	52749942	52786807	0.416834572	PASS
ZNF605	12	132918308	132956306	0.232349073	PASS
ZNF606	19	57977053	58003349	0.142581352	PASS
ZNF607	19	37696363	37719790	0.396324882	PASS
ZNF608	5	124636913	124748807	-0.393084436	PASS
ZNF609	15	64460742	64686068	-0.759380635	PASS
ZNF610	19	52336245	52367778	0.416834572	PASS
ZNF611	19	52702813	52735073	0.416834572	PASS
ZNF613	19	51927147	51948759	0.416834572	PASS
ZNF614	19	52012765	52030240	0.416834572	PASS
ZNF615	19	51991332	52008230	0.416834572	PASS
ZNF616	19	52113091	52139922	0.416834572	PASS
ZNF618	9	113876282	114056591	0.073960965	PASS
ZNF619	3	40477113	40490236	-0.727808231	PASS
ZNF620	3	40477131	40518736	-0.727808231	PASS
ZNF621	3	40524878	40574685	-0.727808231	PASS
ZNF622	5	16451519	16465792	0.073527871	PASS
ZNF623	8	143636013	143656418	0.699132336	PASS
ZNF624	17	16620737	16653856	0.06854245	PASS
ZNF625	19	12142090	12156729	0.391988834	PASS
ZNF625-ZI	19	12132117	12156731	0.391988834	PASS
ZNF626	19	20620061	20661596	-0.069222905	PASS
ZNF627	19	11559374	11619135	-0.107594294	PASS
ZNF628	19	55476332	55484487	0.142581352	PASS
ZNF629	16	30778449	30787202	0.053595371	PASS
ZNF630	23	47983356	48071658	0.158844052	PASS
ZNF638	2	71276561	71435069	-0.46122572	PASS
ZNF639	3	179322991	179338583	0.02267528	PASS
ZNF641	12	48337180	48351414	-0.743220499	PASS
ZNF644	1	90915298	91022272	0.079255572	PASS

ZNF646	16	31074422	31084196	0.053595371	PASS
ZNF648	1	182054570	182061712	0.088103245	PASS
ZNF649	19	51889224	51905040	0.416834572	PASS
ZNF652	17	49289206	49362473	0.051798665	PASS
ZNF653	19	11483427	11505923	-0.107594294	PASS
ZNF654	3	88059274	88144665	0.22470242	PASS
ZNF655	7	99558406	99576453	-0.710463272	PASS
ZNF658	9	66856426	66932141	0.073960965	PASS
ZNF66	19	20776304	20807322	-0.069222905	PASS
ZNF660	3	44578223	44599694	-0.727808231	PASS
ZNF662	3	42905731	42917641	-0.727808231	PASS
ZNF664	12	123971845	124015439	0.028722739	PASS
ZNF665	19	53159213	53193386	0.416834572	PASS
ZNF667	19	56439325	56478065	0.142581352	PASS
ZNF668	16	31060843	31074320	0.053595371	PASS
ZNF669	1	247099962	247104372	-0.145670469	suppress_likely_unfocal_large_gain
ZNF670	1	247036784	247078755	-0.145670469	suppress_likely_unfocal_large_gain
ZNF670-ZI	1	246945547	247078811	-0.145670469	suppress_likely_unfocal_large_gain
ZNF671	19	57719751	57727624	0.142581352	PASS
ZNF672	1	248838210	248849517	0.019108461	PASS
ZNF674	23	46497727	46545457	0.158844052	PASS
ZNF675	19	23525631	23687220	0.044838622	PASS
ZNF676	19	22179091	22215775	0.044838622	PASS
ZNF677	19	53235381	53254898	0.416834572	PASS
ZNF678	1	227563543	227677443	-0.204996646	suppress_segment_too_large
ZNF679	7	64228474	64266931	-0.701511252	PASS
ZNF680	7	64519884	64563106	-0.701511252	PASS
ZNF681	19	23739195	23758891	0.044838622	PASS
ZNF682	19	19997058	20039506	-0.069222905	PASS
ZNF683	1	26361634	26374522	0.048749694	PASS
ZNF684	1	40531561	40548169	0.048749694	PASS
ZNF687	1	151281618	151292180	0.079255572	PASS
ZNF688	16	30569346	30572734	0.053595371	PASS
ZNF689	16	30602558	30624012	0.053595371	PASS
ZNF69	19	11887784	11914329	0.391988834	PASS
ZNF691	1	42846573	42852477	-0.736943052	PASS
ZNF692	1	248850006	248859144	0.019108461	PASS
ZNF695	1	246945547	247008093	-0.145670469	suppress_likely_unfocal_large_gain
ZNF696	8	143289676	143298061	0.699132336	PASS
ZNF697	1	119619422	119647773	0.079255572	PASS
ZNF699	19	9294275	9309838	0.31140559	PASS
ZNF7	8	144827464	144847509	0.699132336	PASS
ZNF70	22	23738678	23751092	-0.740245994	PASS
ZNF700	19	11925068	11950773	0.391988834	PASS
ZNF701	19	52555457	52587174	0.416834572	PASS
ZNF703	8	37695751	37700021	0.182873287	suppress_segment_too_large
ZNF704	8	80628451	80874781	0.617295349	suppress_segment_too_large
ZNF705A	12	8157034	8188537	-0.015029783	PASS
ZNF705E	11	71814045	71821548	0.064535884	PASS
ZNF705G	8	7355517	7385558	-0.311940419	PASS
ZNF706	8	101177878	101206193	0.355469066	suppress_segment_too_large
ZNF707	8	143684452	143713898	0.699132336	PASS
ZNF708	19	21291160	21329425	-0.069222905	PASS
ZNF709	19	12461184	12513854	0.391988834	PASS

ZNF71	19	56595264	56626481	0.142581352	PASS
ZNF710	15	90001392	90082206	-0.759380635	PASS
ZNF711	23	85244032	85273362	0.158844052	PASS
ZNF713	7	55887475	55942530	-0.701511252	PASS
ZNF714	19	21082159	21125270	-0.069222905	PASS
ZNF716	7	57450177	57473546	-0.701511252	PASS
ZNF717	3	75678660	75785583	-0.727808231	PASS
ZNF718	4	124480	202303	-0.358623662	PASS
ZNF720	16	31713229	31794869	0.053595371	PASS
ZNF721	4	425815	499156	-0.358623662	PASS
ZNF723	19	22832321	22858667	0.044838622	PASS
ZNF724	19	23221599	23250390	0.044838622	PASS
ZNF726	19	23914876	23945159	0.044838622	PASS
ZNF727	7	64045443	64078549	-0.701511252	PASS
ZNF728	19	22975468	23003176	0.044838622	PASS
ZNF729	19	22286408	22317176	0.044838622	PASS
ZNF730	19	23075210	23147219	0.044838622	PASS
ZNF732	4	270675	305321	-0.358623662	PASS
ZNF735	7	64207090	64220508	-0.701511252	PASS
ZNF736	7	64307459	64354860	-0.701511252	PASS
ZNF737	19	20535825	20565809	-0.069222905	PASS
ZNF738	19	21358930	21379302	-0.069222905	PASS
ZNF74	22	20394115	20408461	-0.740245994	PASS
ZNF740	12	53180700	53195141	-0.743220499	PASS
ZNF746	7	149472696	149497817	-0.712149877	PASS
ZNF747	16	30530367	30535347	0.053595371	PASS
ZNF749	19	57435329	57445485	0.142581352	PASS
ZNF750	17	82829435	82840578	0.051798665	PASS
ZNF75A	16	3305406	3318852	0.053595371	PASS
ZNF75D	23	135248920	135344087	0.158844052	PASS
ZNF76	6	35258909	35295985	0.028532667	PASS
ZNF761	19	53431993	53458261	0.416834572	PASS
ZNF763	19	11965037	11980381	0.391988834	PASS
ZNF764	16	30553764	30558498	0.053595371	PASS
ZNF765	19	53389793	53430413	0.416834572	PASS
ZNF766	19	52269571	52296046	0.416834572	PASS
ZNF768	16	30524001	30526821	0.053595371	PASS
ZNF77	19	2933218	2944971	-0.071973357	PASS
ZNF770	15	34978341	34988287	-0.423772929	PASS
ZNF771	16	30407297	30431108	0.053595371	PASS
ZNF772	19	57466663	57477570	0.142581352	PASS
ZNF773	19	57499915	57518404	0.142581352	PASS
ZNF774	15	90352245	90369146	-0.759380635	PASS
ZNF775	7	150379335	150398631	-0.712149877	PASS
ZNF776	19	57746796	57758159	0.142581352	PASS
ZNF777	7	149431363	149461123	-0.712149877	PASS
ZNF778	16	89217703	89237071	-0.423061015	PASS
ZNF780A	19	40069152	40090938	0.048917043	PASS
ZNF780B	19	40028260	40056209	0.048917043	PASS
ZNF781	19	37667751	37692322	0.396324882	PASS
ZNF782	9	96816472	96875623	0.073960965	PASS
ZNF783	7	149262171	149297302	-0.712149877	PASS
ZNF784	19	55620742	55624601	0.142581352	PASS
ZNF785	16	30573740	30585771	0.053595371	PASS

ZNF786	7	149069643	149090782	-0.712149877	PASS
ZNF787	19	56087366	56121280	0.142581352	PASS
ZNF789	7	99472841	99503650	-0.710463272	PASS
ZNF79	9	127424374	127445372	0.073960965	PASS
ZNF790	19	36817428	36850787	0.396324882	PASS
ZNF791	19	12610918	12633840	-0.069222905	PASS
ZNF792	19	34956354	34964049	0.044838622	PASS
ZNF793	19	37506939	37548762	0.396324882	PASS
ZNF799	19	12390016	12401271	0.391988834	PASS
ZNF8	19	58278951	58302805	0.142581352	PASS
ZNF80	3	114234631	114237578	0.06434429	PASS
ZNF800	7	127346790	127431924	-0.712149877	PASS
ZNF804A	2	184598366	184939492	-0.120408457	PASS
ZNF804B	7	88759368	89337057	-0.221864321	PASS
ZNF805	19	57240685	57255135	0.142581352	PASS
ZNF808	19	52527652	52564464	0.416834572	PASS
ZNF81	23	47836902	48002561	0.158844052	PASS
ZNF813	19	53467735	53496255	0.416834572	PASS
ZNF814	19	57848731	57889074	0.142581352	PASS
ZNF816	19	52949379	52962911	0.416834572	PASS
ZNF816-Z	19	52928475	52962823	0.416834572	PASS
ZNF821	16	71859680	71895336	-0.423061015	PASS
ZNF823	19	11721265	11739009	0.391988834	PASS
ZNF827	4	145757627	145938635	0.142431244	suppress_segment_too_large
ZNF829	19	36888124	36916291	0.396324882	PASS
ZNF83	19	52594060	52690496	0.416834572	PASS
ZNF830	17	34961530	34963775	0.041294512	PASS
ZNF831	20	59123381	59259113	-0.172056771	suppress_segment_too_large
ZNF835	19	56661981	56671783	0.142581352	PASS
ZNF836	19	52153864	52171643	0.416834572	PASS
ZNF837	19	58367618	58381060	0.142581352	PASS
ZNF839	14	102317377	102342702	-0.155273506	suppress_segment_too_large
ZNF84	12	133037292	133063304	0.232349073	PASS
ZNF841	19	52064466	52095765	0.416834572	PASS
ZNF843	16	31432593	31443160	0.053595371	PASS
ZNF844	19	12064699	12081565	0.391988834	PASS
ZNF845	19	53333746	53356906	0.416834572	PASS
ZNF846	19	9751993	9793180	0.31140559	PASS
ZNF85	19	20923222	20950697	-0.069222905	PASS
ZNF850	19	36714383	36772825	0.396324882	PASS
ZNF852	3	44494847	44510636	-0.727808231	PASS
ZNF853	7	6615617	6624290	-0.72421718	PASS
ZNF860	3	31981771	31991628	0.06149513	PASS
ZNF862	7	149838367	149867479	-0.712149877	PASS
ZNF865	19	55605405	55617269	0.142581352	PASS
ZNF878	19	12043805	12052939	0.391988834	PASS
ZNF879	5	179023752	179035064	0.165341871	suppress_segment_too_large
ZNF880	19	52369917	52385795	0.416834572	PASS
ZNF883	9	112997120	113050043	0.073960965	PASS
ZNF888	19	52904417	52923481	0.416834572	PASS
ZNF891	12	133106817	133130473	0.232349073	PASS
ZNF90	19	20077994	20127076	-0.069222905	PASS
ZNF91	19	23304991	23395560	0.044838622	PASS
ZNF92	7	65373799	65401135	-0.701511252	PASS

ZNF93	19	19900913	19963464	-0.069222905	PASS
ZNF98	19	22391019	22532485	0.044838622	PASS
ZNF99	19	22752183	22784107	0.044838622	PASS
ZNFX1	20	49237946	49278426	-0.172056771	suppress_segment_too_large
ZNHIT1	7	101217668	101224190	-0.712149877	PASS
ZNHIT2	11	65116403	65117708	0.064535884	PASS
ZNHIT3	17	36486629	36499310	0.041294512	PASS
ZNHIT6	1	85649423	85708433	0.587598296	PASS
ZNRD1	6	30058899	30064909	0.069043418	PASS
ZNRF1	16	74999030	75110994	-0.423061015	PASS
ZNRF2	7	30284307	30367692	-0.72421718	PASS
ZNRF3	22	28883592	29057487	-0.740245994	PASS
ZNRF4	19	5455431	5456856	-0.071973357	PASS
ZP1	11	60867562	60875693	0.064535884	PASS
ZP2	16	21197450	21214510	0.053595371	PASS
ZP3	7	76397518	76442071	-0.701511252	PASS
ZP4	1	237877864	237890922	-0.287484925	PASS
ZPBP	7	49850421	50121329	-0.701511252	PASS
ZPBP2	17	39868164	39877896	0.041294512	PASS
ZPLD1	3	102099244	102479841	0.22470242	PASS
ZPR1	11	116773799	116788050	-0.431650509	PASS
ZRANB1	10	124942123	124988189	0.073090211	PASS
ZRANB2	1	71063291	71081297	0.052232535	PASS
ZRANB3	2	135136916	135531236	-0.359440172	PASS
ZRSR2	23	15790472	15823260	0.158844052	PASS
ZSCAN1	19	58034032	58054631	0.142581352	PASS
ZSCAN10	16	3088890	3099317	0.053595371	PASS
ZSCAN12	6	28378955	28399734	0.069043418	PASS
ZSCAN16	6	28124560	28130082	0.069043418	PASS
ZSCAN18	19	58083838	58118427	0.142581352	PASS
ZSCAN2	15	84600986	84627796	-0.759380635	PASS
ZSCAN20	1	33472645	33496507	0.048749694	PASS
ZSCAN21	7	100049774	100065038	-0.710463272	PASS
ZSCAN22	19	58327019	58342332	0.142581352	PASS
ZSCAN23	6	28431930	28443502	0.069043418	PASS
ZSCAN25	7	99616946	99632407	-0.710463272	PASS
ZSCAN26	6	28267010	28278224	0.069043418	PASS
ZSCAN29	15	43358172	43371025	-0.423772929	PASS
ZSCAN30	18	35251058	35290245	-0.330515409	PASS
ZSCAN31	6	28324693	28356271	0.069043418	PASS
ZSCAN32	16	3382081	3401065	0.053595371	PASS
ZSCAN4	19	57668935	57679152	0.142581352	PASS
ZSCAN5A	19	56219670	56368383	0.142581352	PASS
ZSCAN5B	19	56189570	56197920	0.142581352	PASS
ZSCAN5C	19	56202301	56209452	0.142581352	PASS
ZSCAN9	6	28224886	28233482	0.069043418	PASS
ZSWIM1	20	45881227	45885266	-0.172056771	suppress_segment_too_large
ZSWIM2	2	186827835	186849208	-0.030005025	PASS
ZSWIM3	20	45857617	45879122	-0.172056771	suppress_segment_too_large
ZSWIM4	19	13795460	13832230	-0.069222905	PASS
ZSWIM5	1	45016399	45306209	-0.736943052	PASS
ZSWIM6	5	61332273	61546170	0.07724032	PASS
ZSWIM7	17	15976560	15999717	0.06854245	PASS
ZSWIM8	10	73785582	73801797	0.032351597	PASS

ZSWIM9	19	48170692	48197620	0.002743503	PASS
ZUP1	6	116635618	116668794	-0.355603029	PASS
ZW10	11	113733187	113773811	-0.431650509	PASS
ZWILCH	15	66504959	66550128	-0.759380635	PASS
ZWINT	10	56357228	56361275	0.032351597	PASS
ZXDA	23	57906708	57910820	0.158844052	PASS
ZXDB	23	57591652	57597545	0.158844052	PASS
ZXDC	3	126437601	126475919	0.06434429	PASS
ZYG11A	1	52842511	52894998	-0.736943052	PASS
ZYG11B	1	52726467	52827342	-0.736943052	PASS
ZYX	7	143381080	143391111	-0.712149877	PASS
ZZEF1	17	4004445	4143020	0.06854245	PASS

Supplementary Table 3. RNA values as normalized counts by DESeq2.

Gene	Primary Ad	Brain NEPC	Dura Ad
TSPAN6	340.0985066	436.4887566	550.0305021
TNMD	1.100642416	4.149132667	0
DPM1	993.8801019	1279.592514	383.3545923
SCYL3	370.9164943	254.7567457	385.5769378
C1orf112	413.8415485	946.002248	1097.838659
FGR	40.7237694	70.53525534	81.11560939
CFH	0	0	2.222345463
FUCA2	460.06853	891.2336968	631.1461115
GCLC	877.2120058	947.6619011	1105.616868
NFYA	421.5460454	792.4843394	427.8015016
STPG1	178.3040714	415.7430932	218.9010281
NIPAL3	576.7366261	326.9516541	2539.029691
LAS1L	555.8244202	857.210809	777.820912
ENPP4	454.5653179	1018.197156	805.6002303
SEMA3F	808.972176	585.8575326	224.4568918
CFTR	285.0663858	13.27722453	44.44690926
ANKIB1	1546.402595	1253.038065	1496.749669
CYP51A1	29.71734524	9.9579184	40.00221833
KRIT1	235.5374771	178.4127047	65.55919115
RAD52	248.7451861	165.9653067	202.2334371
MYH16	3.301927249	0.829826533	0
BAD	108.9635992	223.2233375	322.2400921
LAP3	534.9122143	553.4942978	767.8203574
HS3ST1	195.9143501	186.71097	486.6936564
AOC1	16.50963624	331.9306133	3453.524849
WNT16	12.10706658	4.149132667	146.6748005
HECW1	114.4668113	10.78774493	44.44690926
MAD1L1	11.00642416	18.25618373	2.222345463
LASP1	687.9015102	877.9564723	794.488503
SNX11	66.03854498	107.0476228	165.564737
TMEM176	118.869381	14.9368776	18.88993643
M6PR	778.1541883	1159.267667	714.4840663
KLHL13	440.2569665	273.0129295	418.9121198
CYP26B1	44.02569665	118.6651943	15.55641824
ICA1	1042.308368	453.0852872	521.140011
DBNDD1	26.41541799	57.2580308	47.78042745
ALS2	1765.430436	1872.918486	1857.880807
CASP10	80.34689639	23.23514293	143.3412824
CFLAR	1466.055699	562.6223896	1300.072096
TFPI	348.903646	332.7604399	91.11616398
NDUFAF7	374.2184215	416.5729197	268.903801
RBM5	2371.884407	657.2226144	1442.302205

MTMR7	7.704496914	8.298265334	73.33740027
SLC7A2	353.3062156	210.7759395	3285.737767
ARF5	389.6274154	408.2746544	493.3606928
SARM1	206.9207743	278.8217152	253.3473828
POLDIP2	567.9314868	576.7294407	561.1422294
PLXND1	1355.991457	2182.443783	3082.393157
AK2	801.2676791	1409.87528	643.3690115
CD38	89.15203572	4.149132667	6.667036389
FKBP4	626.2655349	1274.613555	801.1555394
KDM1A	1444.04285	2872.029632	1740.096497
RBM6	3326.141382	1365.064647	1284.515678
CAMKK1	90.25267814	92.1107452	70.00388208
RECQL	487.5845904	2206.508752	312.2395375
VPS50	661.4860922	316.9937357	470.0260654
HSPB6	465.5717421	9.9579184	8.889381852
ARHGAP3	190.411138	976.7058298	531.1405656
NDUFAB1	123.2719506	539.3872467	180.0099825
PDK4	214.6252712	989.9830543	450.0249562
SLC22A16	5.503212081	5.808785734	18.88993643
ZMYND10	31.91863007	3.319306133	12.22290005
ABCB5	35.22055732	6.638612267	14.44524551
ARX	186.0085684	3.319306133	720.03993
SLC25A13	368.7152095	476.3204302	305.5725011
ST7	603.1520441	324.4621745	331.129474
CDC27	785.8586852	1491.19828	608.9226568
SLC4A1	14.30835141	34.8527144	52.22511838
CALCR	12.10706658	9.128091867	14.44524551
HCCS	115.5674537	247.2883069	168.8982552
DVL2	355.5075005	637.3067776	853.3806577
PRSS22	38.52248457	0	5.555863657
UPF1	1101.743059	1233.122229	2174.565035
SKAP2	476.5781663	582.5382264	465.5813745
SLC25A5	458.9678876	2646.316815	755.5974574
MCUB	64.93790256	381.7202053	92.22733671
HOXA11	298.2740948	0	62.22567296
POLR2J	286.1670282	160.1565209	187.7881916
DHX33	433.653112	646.4348695	388.910456
MEOX1	8.80513933	0.829826533	0
THSD7A	461.1691724	127.7932861	634.4796297
LIG3	1357.092099	931.895197	1803.433343
RPAP3	1168.882246	1023.176116	445.5802653
ACSM3	418.2441182	5.808785734	48.89160018
REXO5	123.2719506	423.211532	96.67202764
CIAPIN1	94.6552478	122.8143269	125.5625187

SPPL2B	169.4989321	175.0933985	338.9076831
ATOSB	94.6552478	126.9634596	295.5719466
COPZ2	50.62955115	16.59653067	170.0094279
PRKAR2B	434.7537544	189.2004496	154.4530097
MSL3	945.4518356	638.1366042	628.923766
CREBBP	11844.01304	8925.614193	11657.31313
TSPOAP1	586.6424079	190.8601027	1400.077642
MPO	6.603854498	13.27722453	8.889381852
PON1	6.603854498	2.4894796	2.222345463
GCFC2	421.5460454	380.8903788	281.1267011
WDR54	25.31477557	94.6002248	63.33684569
CROT	406.1370516	73.85456147	173.3429461
ABCB4	90.25267814	24.06496947	50.00277291
KMT2E	13675.48202	4176.516942	3319.072949
RHBDD2	399.5331971	319.4832153	878.9376306
SOX8	12.10706658	44.8106328	60.0033275
IBTK	346.7023611	73.02473494	31.11283648
ZNF195	595.4475472	857.210809	358.9087923
MYCBP2	6554.325589	3461.206471	3826.878887
FBXL3	758.3426248	644.7752164	541.1411202
ITGAL	304.8779493	40.66150013	95.5608549
PDK2	419.3447606	238.9900416	232.2351009
ITGA3	954.2569749	1155.948361	1491.193806
ZFX	1474.860838	1136.862351	1294.516232
LAMP2	2917.803046	2966.629857	6934.829017
ITGA2B	9.905781747	62.23699	42.22456379
ASB4	1.100642416	1.659653067	2.222345463
GDE1	686.8008678	814.0598292	932.2739217
REX1BD	75.94432672	87.96161254	194.455228
CRLF1	24.21413316	1158.437841	145.5636278
OSBPL7	123.2719506	112.026582	158.8977006
TMEM98	267.4561072	125.3038065	394.4663197
YBX2	1.100642416	0	0
MAP3K14	332.3940097	271.3532764	493.3606928
ABCC8	28.61670282	449.7659811	125.5625187
CACNG3	3.301927249	0.829826533	12.22290005
TMEM132	272.9593192	440.6378892	632.2572842
AP2B1	1821.563199	2565.823641	2822.378738
TAC1	4.402569665	1.659653067	8.889381852
ZNF263	397.3319123	472.1712975	277.7931829
CX3CL1	238.8394043	39.8316736	25.55697282
SPATA20	714.3169282	399.9763891	1746.763534
CACNA1C	354.406858	56.42820427	374.4652105
TNFRSF12	79.24625397	30.70358173	71.11505481

DLX6	12.10706658	32.3632348	20.00110917
MAP3K9	527.2077174	772.5685026	483.3601382
RALA	219.0278408	277.1620621	38.8910456
BAIAP2L1	570.1327716	545.1960324	562.2534021
KDM7A	1089.635992	817.3791354	524.4735292
ETV1	514.0000084	408.2746544	121.1178277
AGK	246.5439013	207.4566333	88.89381852
ALDH3B1	40.7237694	28.21410213	50.00277291
TTC22	116.6680961	8.298265334	235.5686191
PHTF2	286.1670282	403.2956952	211.122819
CCL26	1.100642416	0.829826533	3.333518194
FARP2	796.8651094	996.6216666	1160.064332
USH1C	13.207709	60.57733694	254.4585555
GGCT	66.03854498	119.4950208	30.00166375
DBF4	129.8758051	497.89592	40.00221833
TBXA2R	26.41541799	20.74566333	20.00110917
IFRD1	18.71092108	24.894796	7.77820912
LGALS14	1.100642416	1.659653067	8.889381852
COX10	221.2291257	291.2691132	316.6842285
GTF2IRD1	356.6081429	272.1831029	418.9121198
PAF1	1021.396162	1082.923626	748.930421
VPS41	1214.008585	707.842033	1037.835331
ARHGAP4	379.7216336	442.2975423	345.5747195
ELAC2	735.2291341	969.237391	1238.957596
SCIN	92.45396297	4825.441292	94.44968217
ARSD	547.0192809	347.6973175	543.3634657
PNPLA4	128.7751627	109.5371024	171.1206006
MYH13	24.21413316	10.78774493	45.55808199
ADIPOR2	5.503212081	115.3458881	14.44524551
CDKL3	19.81156349	22.4053164	16.66759097
UPP2	0	4.149132667	2.222345463
PRSS21	96.85653263	0.829826533	1.111172731
MARK4	327.9914401	335.2499195	507.8059383
PROM1	122.1713082	233.1812559	32.22400921
CCDC124	187.1092108	313.6744296	301.1278102
CEACAM2	0	0	4.444690926
PAFAH1B	1359.293384	2769.960968	1285.62685
NOS2	11.00642416	112.026582	202.2334371
DNAH9	71.54175706	38.17202053	512.2506292
BLTP2	4316.719557	5710.036376	7787.098502
SLC13A2	2.201284833	8.298265334	12.22290005
GAS7	244.3426164	94.6002248	130.0072096
TRAPPC6A	50.62955115	96.25987787	107.7837549
MATK	51.73019357	21.57548987	44.44690926

CEACAM7	1.100642416	9.9579184	6.667036389
CD79B	3.301927249	1.659653067	2.222345463
SCN4A	2.201284833	17.4263572	25.55697282
ST7L	685.7002254	560.9627366	455.5808199
TKTL1	8.80513933	4.9789592	8.889381852
PAX6	9.905781747	6.638612267	57.78098203
RPUSD1	97.95717505	181.7320108	266.6814555
RHBDF1	479.8800935	741.0350943	643.3690115
LUC7L	736.3297765	609.922502	711.1505481
CACNA2D	307.0792341	843.9335844	448.9137835
BAIAP3	318.0856583	185.0513169	1065.614649
TSR3	275.1606041	329.4411337	363.3534832
PIGQ	254.2483982	277.1620621	1028.945949
CRAMP1	118.869381	125.3038065	246.6803464
TEAD3	550.3212081	199.158368	663.3701207
SELE	23.11349074	7.4684388	12.22290005
DNAJC11	537.1134992	1072.135881	722.2622754
FMO3	38.52248457	40.66150013	35.55752741
MYLIP	671.3918739	279.6515417	440.0244016
NOX1	1.100642416	2.4894796	10.00055458
PSMB1	997.1820292	2149.250721	1915.661789
SYN1	5.503212081	86.30195947	13.33407278
JARID2	453.4646755	609.0926755	646.7025297
CDKL5	716.518213	506.1941854	666.7036389
CAMK1G	16.50963624	5.808785734	45.55808199
CDK11A	8.80513933	8.298265334	30.00166375
NADK	272.9593192	228.2022967	588.9215477
TFAP2B	6.603854498	17.4263572	46.66925472
TFAP2D	0	0.829826533	28.89049102
DLEC1	114.4668113	31.53340827	280.0155283
CYTH3	1001.584599	187.5407965	222.2345463
ADAM22	2032.886543	686.2665431	634.4796297
SYPL1	806.7708911	750.9930127	710.0393754
CYB561	482.0813783	374.2517665	854.4918305
SPAG9	2430.218455	3128.446031	2683.482146
CELSR3	112.2655265	1467.963138	222.2345463
AASS	1210.706658	109.5371024	1145.619086
PLEKHG6	110.0642416	120.3248473	86.67147305
SS18L2	47.3276239	49.789592	74.44857301
MPND	104.5610295	209.1162864	330.0183012
MGST1	1284.4497	2252.149212	523.3623565
CRY1	405.0364092	926.0864112	394.4663197
PGLYRP1	0	3.319306133	6.667036389
NFIX	5512.017221	137.7512045	1506.750224

ST3GAL1	136.4796596	110.3669289	442.2467471
MMP25	9.905781747	32.3632348	7.77820912
IL32	505.1948691	17.4263572	17.7787637
PKD1	2122.038579	1832.256986	6615.922443
MAPK8IP2	66.03854498	172.6039189	104.4502368
MED24	642.7751711	646.4348695	1605.644597
RHOBTB2	405.0364092	295.4182459	411.1339106
HEATR5B	1780.83943	1522.731689	2243.457745
SEC62	1969.049283	1108.648249	1137.840877
RPS20	1196.398307	2358.367008	647.8137024
CSDE1	12148.89099	15970.84146	12061.78
UBE3C	1429.734499	1389.959443	1147.841432
REV3L	5591.263475	5990.517744	1755.652916
TENM1	890.4197148	34.02288787	113.3396186
PAX7	1.100642416	3.319306133	12.22290005
MASP2	11.00642416	60.57733694	10.00055458
IYD	9.905781747	2.4894796	5.555863657
FAM76A	170.5995745	138.5810311	137.7854187
TRAF3IP3	89.15203572	3.319306133	24.44580009
POMT2	331.2933673	465.5326852	611.1450023
VTA1	431.4518272	1058.02883	385.5769378
MLXIPL	63.83726015	55.59837774	58.89215477
BAZ1B	4365.147823	4564.87576	1622.312188
RANBP9	1766.531078	3692.728073	1907.88358
ETV7	45.12633907	10.78774493	41.11339106
SPRTN	172.8008594	303.7165112	71.11505481
METTL13	308.1798766	562.6223896	573.3651294
DYRK4	141.9828717	206.6268068	80.00443666
ZNF207	1756.625296	1701.97422	1300.072096
UQCRC1	539.314784	877.1266458	764.4868392
STARD3N	527.2077174	258.9058784	274.4596647
CD9	2450.030019	1325.232974	1557.864169
HHATL	2.201284833	13.27722453	10.00055458
NCAPD2	664.7880194	2589.888611	713.3728936
IFFO1	102.3597447	19.08601027	126.6736914
GIPR	16.50963624	11.61757147	44.44690926
PHF7	59.43469048	51.44924507	50.00277291
SEMA3G	27.51606041	58.91768387	41.11339106
NISCH	1897.507526	697.8841146	4106.894415
STAB1	1029.100659	784.186074	6647.035279
FUZ	63.83726015	102.8984901	131.1183823
SLC6A13	4.402569665	9.128091867	858.9365214
IDS	435.8543969	341.8885317	700.0388208
PRSS3	2.201284833	0.829826533	2.222345463

ZNF200	82.54818122	296.2480724	131.1183823
CD4	148.5867262	72.1949084	142.2301096
LRRC23	62.73661773	77.1738676	127.7848641
BTK	230.034265	52.2790716	78.89326393
HFE	86.95075089	15.76670413	67.78153662
SCMH1	1880.997889	541.8767263	1251.180496
FYN	435.8543969	907.000401	526.6958747
HIVEP2	3439.507551	1554.265097	3080.170812
FMO1	51.73019357	18.25618373	47.78042745
ELOA	810.0728184	936.8741562	596.6997568
LYPLA2	75.94432672	94.6002248	135.5630732
CLCN6	472.1755966	523.6205426	1046.724713
MRC2	1091.837277	253.0970927	2003.444435
SLC6A7	1.100642416	1.659653067	4.444690926
TSPAN9	435.8543969	152.6880821	371.1316923
BTBD7	62.73661773	29.8737552	73.33740027
APBA3	181.6059987	137.7512045	518.9176656
MKS1	159.5931504	201.6478476	220.0122008
ABHD5	232.2355498	437.3185831	255.5697282
ANOS1	605.353329	866.3389008	318.9065739
AKAP8L	912.4325631	612.4119816	1590.088179
MBTD1	496.3897298	702.8630738	635.5908024
UTP18	223.4304105	739.3754412	422.2456379
RNF216	1319.670257	826.5072272	893.3828761
TTC19	679.0963709	712.8209922	498.9165564
PTBP1	1270.141348	2071.247027	2177.898554
DPF1	5.503212081	317.8235623	37.77987287
SYT7	1547.503237	2023.117088	1086.726931
LARS2	345.6017187	286.290154	340.0188558
PIK3C2A	2700.97649	2077.88564	2192.343799
PLAUR	86.95075089	72.1949084	93.33850944
ANLN	128.7751627	962.5987787	34.44635467
WIZ	684.5995829	726.9280432	1560.086515
RABGAP1	1980.055707	1784.127047	2271.237063
DCN	4476.312707	1559.244056	8491.582014
QPCTL	78.14561156	94.6002248	291.1272556
PPP5C	618.561038	1347.63829	1125.617977
CEP68	223.4304105	193.3495823	385.5769378
MAP4K3	2033.987185	1131.053565	1550.08596
ZBTB32	6.603854498	0	10.00055458
TYROBP	499.691657	261.395358	193.3440553
LDAF1	95.75589022	54.7685512	116.6731368
GABRA3	31.91863007	173.4337455	44.44690926
BRCA1	574.5353413	4099.343075	440.0244016

ERCC1	556.9250626	417.4027463	912.2728125
CD22	24.21413316	9.128091867	2.222345463
SEMA3B	126.5738779	29.04392867	410.0227379
MBTPS2	358.8094277	293.7585928	477.8042745
PRICKLE3	289.4689555	214.0952456	237.7909645
LTF	2633.837302	122.8143269	86.67147305
EXTL3	297.1734524	463.8730322	634.4796297
NR1H4	14.30835141	3.319306133	15.55641824
ELOVL5	2357.576056	2026.436394	944.4968217
ALOX5	17.61027866	74.684388	8.889381852
KDM5D	1754.424012	176.7530516	807.8225758
CALCOCO	1138.064258	375.0815931	1846.76908
UBR7	5.503212081	22.4053164	6.667036389
MAP4K5	1939.331938	2312.726548	1030.057122
EHD3	256.449683	102.8984901	334.4629922
MAN2B2	506.2955115	466.3625118	1967.886907
SLC7A14	8.80513933	719.4596044	73.33740027
CLDN11	19.81156349	295.4182459	720.03993
SLC25A39	301.5760221	687.9261962	1714.539525
MVP	501.8929418	151.0284291	835.601894
NUB1	935.5460539	525.2801956	402.2445288
PGM3	1387.910087	499.5555731	774.4873938
RWDD2A	268.5567496	64.7264696	122.2290005
CLK1	1904.11138	1204.908126	1193.399514
POLR3B	582.2398382	932.7250235	398.9110106
ANGEL1	390.7280578	311.18495	796.7108484
RNF14	367.614567	326.9516541	325.5736103
DNASE1L	162.8950776	77.1738676	285.571392
DDX11	206.9207743	1019.85681	358.9087923
HEBP1	303.7773069	518.6415834	883.3823215
GPRC5A	159.5931504	27.3842756	723.3734482
MAMLD1	203.618847	48.12993894	123.3401732
CD6	114.4668113	19.08601027	26.66814555
TACC3	103.4603871	556.8136039	96.67202764
UFL1	709.9143585	438.1484096	295.5719466
POLA2	15.40899383	65.55629614	6.667036389
ZC3H3	203.618847	248.94796	460.0255108
CAPN1	806.7708911	796.633472	1392.299432
ACP3	15842.64694	94.6002248	48943.8253
MDH1	320.2869431	726.9280432	542.2522929
SLC30A9	1612.44114	1020.686636	1455.636278
MTMR11	106.7623144	46.47028587	95.5608549
COX15	168.3982897	178.4127047	33.33518194
CCDC88C	1911.815877	1985.774894	671.1483298

YAF2	202.5182046	225.7128171	107.7837549
ZMYND11	2455.533231	2667.892305	1571.198242
WAS	139.7815869	40.66150013	24.44580009
DPEP1	4.402569665	7.4684388	0
BID	97.95717505	82.98265334	78.89326393
MATR3	71.54175706	116.1757147	13.33407278
NPC1L1	17.61027866	12.447398	46.66925472
XYLT2	562.4282747	227.3724701	1058.947613
RGPD5	244.3426164	168.4547863	105.5614095
STMN4	3.301927249	2.4894796	3.333518194
NUDCD3	527.2077174	241.4795212	401.133356
ISL1	222.3297681	133.6020719	24.44580009
CHDH	220.1284833	117.8353677	108.8949277
IL20RA	160.6937928	18.25618373	97.78320037
CLCA1	22.01284833	4.149132667	20.00110917
CLCA4	52.83083598	4.9789592	90.00499125
GLT8D1	661.4860922	416.5729197	411.1339106
ATP2C1	3806.021476	8290.796895	4319.128407
IGF1	242.1413316	15.76670413	344.4635467
SLC38A5	67.13918739	7.4684388	40.00221833
RALBP1	662.5867346	1133.543045	1213.400623
RUFY3	756.14134	716.1402983	634.4796297
CNTN1	1341.683105	1030.644554	40.00221833
SLC11A1	27.51606041	68.87560227	167.7870824
WWTR1	1326.274112	279.6515417	964.4979309
AGPS	587.7430503	1152.629055	316.6842285
ZNF285CP	1.100642416	2.4894796	7.77820912
STEEP1	140.8822293	229.0321232	103.339064
ATP1A2	205.8201318	69.7054288	2883.493238
TTC27	648.2783832	633.9874715	577.8098203
ZNF582	74.84368431	48.12993894	81.11560939
VSIG2	90.25267814	6.638612267	25.55697282
PHLDB1	1299.858694	1284.571474	926.718058
MARCO	4.402569665	0.829826533	113.3396186
CYP24A1	28.61670282	3.319306133	16.66759097
PRDM11	261.9528951	242.3093477	382.2434196
SYT13	20.91220591	461.3835526	21.1122819
SNAI2	249.8458285	485.448522	71.11505481
CD74	12002.50555	1701.144393	1905.661234
HGF	655.9828801	84.6423064	32.22400921
ZRANB1	1100.642416	2160.038466	911.1616398
NCDN	356.6081429	180.0723577	926.718058
ADGRA2	1084.13278	135.2617249	598.9221022
CCT8L1P	2.201284833	0.829826533	2.222345463

ZFP64	674.6938012	485.448522	555.5863657
MNAT1	212.4239863	303.7165112	227.7904099
SAMD4A	619.6616804	107.8774493	343.352374
RUNX3	136.4796596	187.5407965	227.7904099
MRE11	564.6295596	1560.073883	475.5819291
PLEKHB1	69.34047223	217.4145517	430.0238471
SERPINB1	242.1413316	143.5599903	236.6797918
CYP3A43	19.81156349	4.149132667	24.44580009
SLC7A9	20.91220591	10.78774493	41.11339106
SPAST	589.9443351	1263.82581	501.1389019
NRXN3	2716.385483	2218.126324	320.0177467
OSBPL5	439.1563241	136.921378	340.0188558
AQR	1538.698098	1582.479199	1145.619086
CPS1	50.62955115	873.8073396	226.6792372
C8B	11.00642416	3.319306133	1.111172731
FHL1	610.856541	145.2196433	158.8977006
RTF2	713.2162858	805.7615639	720.03993
GABRA1	13.207709	4.9789592	14.44524551
SLC45A4	584.4411231	721.1192575	1097.838659
RNF10	1703.79446	1542.647526	1986.776844
ZNF839	288.3683131	105.3879697	202.2334371
ZDHHC6	420.445403	557.6434304	654.4807388
GRAMD1I	49.52890873	4.9789592	60.0033275
RNH1	24.21413316	6.638612267	18.88993643
NDUFS1	35.22055732	76.34404107	63.33684569
RB1CC1	2322.355498	4240.413586	2651.258137
ERP44	1799.550351	2091.992691	1222.290005
ALAS1	559.1263475	495.4064404	300.0166375
BIRC3	635.0706742	75.51421454	52.22511838
AKAP11	2299.242008	2493.628733	2404.577791
GLRX2	123.2719506	228.2022967	66.67036389
SNAPC1	77.04496914	107.8774493	64.44801842
DERA	124.372593	660.5419206	107.7837549
STRAP	1951.439004	3803.924829	1118.950941
ABCC2	52.83083598	25.72462253	100.0055458
DEF6	181.6059987	53.93872467	164.4535643
PLEKHO1	337.8972218	340.2288787	166.6759097
GCLM	115.5674537	351.0166236	308.9060193
UBR2	2785.725956	1682.88821	2557.919628
EHD2	369.8158519	175.9232251	268.903801
DEPDC1	68.23982981	928.5758908	47.78042745
CCDC28A	99.05781747	177.5828781	318.9065739
RRAGD	234.4368347	847.2528906	73.33740027
HSF2	254.2483982	343.5481848	87.78264578

PHF20	726.4239948	814.0598292	647.8137024
HSD17B6	324.6895128	216.5847252	0
NR1H3	201.4175622	102.8984901	138.8965914
TYMP	157.3918655	42.3211532	62.22567296
NCAPH2	128.7751627	301.2270316	310.0171921
TOMM34	145.284799	240.6496947	347.7970649
SEC63	2523.773061	2744.236346	1022.278913
KPNA6	582.2398382	773.3983291	848.9359668
VIM	3704.762373	2141.782283	14930.82799
RTEL1-TN	3.301927249	7.4684388	2.222345463
FAS	490.8865177	90.45109214	392.2439742
RNASET2	286.1670282	224.053164	233.3462736
CD44	3605.704556	242.3093477	125.5625187
KCNG1	46.22698148	16.59653067	818.9343031
AGPAT4	38.52248457	199.9881945	187.7881916
SLAMF7	70.44111464	3.319306133	0
BTN3A1	418.2441182	109.5371024	324.4624376
MIPEP	515.1006508	234.8409089	234.4574463
PRKCH	446.860821	655.5629614	608.9226568
INSRR	7.704496914	68.87560227	136.674246
IFNGR1	1606.937928	1033.134034	1458.969796
B4GALT7	353.3062156	282.1410213	371.1316923
SH2D2A	66.03854498	19.08601027	2.222345463
VRK2	403.9357668	443.1273688	164.4535643
TNFRSF1E	155.1905807	74.684388	140.0077642
VEZT	2357.576056	2108.589221	2032.334926
POU2F2	89.15203572	63.89664307	75.55974574
BRD9	529.4090022	551.8346447	682.2600571
SNX1	1606.937928	688.7560227	871.1594214
TBPL1	442.4582514	172.6039189	110.0061004
BMAL2	110.0642416	835.6353191	61.11450023
BCLAF1	3952.406917	4136.685269	2061.225417
SLC39A9	639.4732439	830.6563599	1186.732477
ANK1	31.91863007	633.9874715	96.67202764
IBSP	3.301927249	103.7283167	21.1122819
TFB1M	112.2655265	175.0933985	191.1217098
RABEP1	1996.565343	1175.864198	1186.732477
HMGB3	132.07709	1484.559668	112.2284459
NUP160	78.14561156	251.4374396	147.7859733
BAK1	102.3597447	102.0686636	110.0061004
MUSK	14.30835141	7.4684388	6.667036389
IKZF2	697.8072919	643.1155634	586.6992022
GRN	2500.65957	2922.649051	7608.199692
FAM13B	1562.912231	648.0945226	988.943731

ARHGAP3	368.7152095	180.0723577	658.9254297
CENPQ	23.11349074	97.0897044	15.55641824
SARS1	1225.015009	957.6198195	735.5963482
RANBP3	1024.69809	1056.369177	1036.724158
ARID4A	1004.886526	960.9391256	530.0293929
EIPR1	202.5182046	462.2133791	536.6964293
PNPLA6	398.4325547	583.368053	1436.746342
IFT88	391.8287002	464.7028587	302.238983
ALG1	134.2783748	125.3038065	303.3501557
ZCCHC8	707.7130737	762.6105842	508.917111
ABCF2	14.30835141	21.57548987	6.667036389
CHPF2	412.7409061	180.0723577	623.3679023
LRRC7	97.95717505	113.6862351	744.4857301
FUT8	304.8779493	841.4441048	473.3595836
UBA6	1504.578183	3911.802278	1286.738023
GAB2	752.8394127	337.7393991	372.242865
ATP6V0A	1218.411155	1316.934708	1458.969796
PIAS1	3045.477566	1226.483616	1208.955932
SLC4A7	1578.321225	1605.714342	1225.623523
APBA2	14.30835141	36.51236747	3.333518194
MAP2K3	281.7644586	242.3093477	214.4563372
CLXN	16.50963624	3.319306133	8.889381852
TMSB10	1763.229151	4263.648728	2472.359327
ASTE1	245.4432588	303.7165112	232.2351009
RNF19A	1532.094243	3145.872388	4316.906062
PEX3	388.526773	284.6305009	314.461883
GABARAI	279.5631737	494.5766139	644.4801842
MYOC	127.6745203	0	11.11172731
SH3YL1	674.6938012	569.2610019	681.1488844
FAM136A	125.4732355	247.2883069	128.8960368
VCL	2603.019315	1853.002649	2412.356
DEPDC1B	63.83726015	1074.625361	35.55752741
DAPK2	81.44753881	38.17202053	66.67036389
NSMAF	790.2612549	394.9974299	368.9093468
ADSS2	1072.025713	955.9601664	938.9409581
STAP1	18.71092108	604.1137163	0
TIMP2	1809.456132	987.4935747	1262.292223
RFC1	2607.421884	2242.191293	1663.425579
TBC1D23	764.9464793	825.6774007	615.5896932
CUL3	1637.755915	2446.32862	1757.875261
MYOM2	4.402569665	0	11.11172731
OTC	7.704496914	2.4894796	3.333518194
CYP46A1	25.31477557	27.3842756	27.77931829
ZZZ3	3091.704547	2877.008591	1581.198797

SLC18A1	13.207709	18.25618373	30.00166375
USP2	47.3276239	111.1967555	32.22400921
CASR	6.603854498	223.2233375	25.55697282
TUBG2	379.7216336	202.4776741	470.0260654
RPL26L1	99.05781747	287.1199805	72.22622754
FLT4	130.9764475	769.2491964	125.5625187
NSUN2	1121.554622	1969.178364	1206.733586
MFAP3	225.6316953	326.1218276	203.3446099
MRI1	132.07709	118.6651943	520.0288383
METTL1	202.5182046	102.0686636	97.78320037
HOXC8	0	11.61757147	1.111172731
AGA	331.2933673	351.0166236	275.5708374
PI4K2B	270.7580344	312.8446031	124.4513459
BOD1L1	5040.942267	2950.863153	5031.390128
MAT2B	749.5374855	725.2683902	687.8159208
TLL1	90.25267814	28.21410213	162.2312188
EDC4	361.0107125	293.7585928	480.02662
TRIO	4785.593226	8672.5171	5430.301139
VCAN	3727.875864	6725.744053	508.917111
CLEC16A	1182.089955	1249.718759	1268.959259
MSR1	477.6788087	281.3111948	192.2328825
CDH1	3907.280578	1387.469964	3390.188004
MTREX	1299.858694	1652.184628	680.0377116
DNAH5	3348.15423	1427.301637	1462.303315
ZFYVE16	1818.261272	1916.069466	2913.494902
RIPOR1	1593.730219	609.922502	952.2750308
C6	13.207709	3.319306133	13.33407278
RAI14	1032.402586	356.8254093	770.0427029
SOX30	13.207709	95.43005134	35.55752741
PNKP	326.8907976	526.1100222	1034.501813
BEST2	3.301927249	9.128091867	13.33407278
PHLPP2	489.7858753	437.3185831	444.4690926
SPDL1	139.7815869	660.5419206	50.00277291
STAU2	1514.483965	2301.938804	1064.503477
SLC66A1	49.52890873	97.91953094	213.3451644
CTNS	199.2162773	156.0073883	173.3429461
RTN4R	17.61027866	81.32300027	42.22456379
PHF23	637.271959	502.0450527	633.3684569
CDH10	128.7751627	274.6725825	17.7787637
INPP4A	674.6938012	1048.070912	1228.957041
RAB27B	242.1413316	8.298265334	222.2345463
PSMA4	1134.762331	1210.716912	487.8048291
MYO16	63.83726015	13.27722453	57.78098203
LSG1	578.937911	942.6829419	753.3751119

PARP3	112.2655265	44.8106328	82.22678213
TNC	5445.978676	385.869338	1370.075978
THAP3	47.3276239	73.85456147	148.897146
RIPOR3	50.62955115	40.66150013	68.89270935
TDP1	351.1049308	563.4522162	227.7904099
AIFM2	108.9635992	337.7393991	290.0160829
C2orf83	1.100642416	0	0
SPATA7	480.9807359	305.3761643	232.2351009
MED17	40.7237694	58.91768387	40.00221833
RETSAT	2.201284833	9.9579184	4.444690926
CAPG	247.6445437	97.0897044	83.33795486
AP2S1	193.7130653	549.3451651	616.7008659
USH2A	88.0513933	91.28091867	134.4519005
ZPBP	8.80513933	0.829826533	0
TG	96.85653263	74.684388	206.678128
ADAM28	474.3768814	72.1949084	96.67202764
BARX2	34.11991491	47.3001124	71.11505481
DCUN1D1	729.725922	845.5932375	517.8064929
JADE2	454.5653179	204.9671537	563.3645748
ZIC2	23.11349074	518.6415834	583.365684
LCP2	773.7516187	204.1373272	184.4546734
TRIT1	745.1349158	2130.164711	555.5863657
ADRB1	396.2312699	3.319306133	118.8954823
GUCA2B	0	0	7.77820912
CUL7	551.4218506	313.6744296	1705.650143
CTNNA1	2774.719531	2800.66455	2681.259801
PHKA2	1095.139204	1498.666719	1556.752997
CNTLN	166.1970049	502.0450527	208.9004735
EPHA3	1978.955065	277.1620621	97.78320037
HSPA5	6741.4348	15023.17956	6051.446695
DSG2	1668.573903	2218.126324	1674.537306
GEMIN8	121.0706658	83.81247987	143.3412824
OFD1	812.2741032	777.5474618	767.8203574
GPM6B	140.8822293	76.34404107	46.66925472
MAGEC2	6.603854498	8.298265334	31.11283648
PREX2	1477.062123	175.9232251	747.8192483
WDR37	444.6595362	254.7567457	425.5791561
YTHDC2	782.556758	553.4942978	856.7141759
CTPS2	570.1327716	557.6434304	382.2434196
ATP6V1H	617.4603955	1255.527545	986.7213855
POLR2B	1948.137077	4398.910453	2361.242054
ATOSA	986.175605	393.3377768	804.4890576
ARAP2	862.9036544	297.9077255	420.0232925
TPR	6457.469056	8370.460242	5296.960411

CP	2942.017179	35.68254093	345.5747195
KATNIP	1566.214158	1266.31529	2301.238727
DTNBP1	241.0406892	477.1502567	267.7926283
XK	13.207709	72.1949084	14.44524551
ANO2	107.8629568	40.66150013	513.3618019
C12orf4	358.8094277	385.0395115	206.678128
SCML1	173.9015018	277.1620621	190.0105371
WWC3	815.5760305	227.3724701	568.9204385
ARHGAP6	1565.113516	66.38612267	2357.908536
FAM184B	6.603854498	13.27722453	77.7820912
MAP4	6794.265636	2970.778989	3249.069067
GOPC	421.5460454	259.7357049	200.0110917
ROS1	23.11349074	8.298265334	55.55863657
USP28	473.276239	664.6910532	623.3679023
HDAC9	529.4090022	229.0321232	112.2284459
TSPAN17	184.9079259	530.2591548	405.578047
NOP16	175.0021442	234.0110824	237.7909645
CC2D2A	471.0749542	199.158368	470.0260654
RRM2B	318.0856583	899.5319622	987.8325582
ZNF800	1243.72593	794.1439924	530.0293929
TNFRSF17	9.905781747	0.829826533	1.111172731
SNX29	564.6295596	316.1639092	770.0427029
LMO3	129.8758051	5230.39664	34.44635467
MRPS10	307.0792341	491.2573078	194.455228
GUCA1A	0	0	2.222345463
RSF1	2781.323386	3144.212735	2255.680645
VPS13D	7679.182139	4809.674587	9066.058316
CELF2	405.0364092	92.94057174	392.2439742
FAM120A	4776.788087	3715.13339	8130.450876
R3HDM1	1751.122084	1879.557098	753.3751119
COL9A2	206.9207743	9.128091867	795.5996757
KITLG	342.2997915	1018.197156	171.1206006
ERCC8	332.3940097	740.2052678	191.1217098
ADAMTS6	79.24625397	280.4813683	30.00166375
H6PD	514.0000084	133.6020719	856.7141759
VAMP3	180.5053563	503.7047058	337.7965104
PER3	1326.274112	1578.330066	835.601894
UTS2	0	0.829826533	8.889381852
TNFRSF9	14.30835141	10.78774493	6.667036389
EPN3	330.1927249	24.894796	333.3518194
LTBP1	5873.027933	754.3123188	1151.17495
RCN1	77.04496914	86.30195947	75.55974574
ELN	528.3083598	168.4547863	168.8982552
RFC2	197.0149925	572.580308	127.7848641

ARID1B	3841.242033	4384.803402	3903.549806
CLPTM1L	35.22055732	53.93872467	54.44746384
NEDD4L	5148.805223	1450.53678	3551.30805
FOXP3	60.5353329	8.298265334	10.00055458
PPP1R3F	40.7237694	17.4263572	163.3423915
HEXB	1251.430427	1071.306055	1315.628514
PTCD2	103.4603871	97.0897044	65.55919115
NEXMIF	206.9207743	1349.297943	408.9115652
JKAMP	626.2655349	1117.77634	1335.629623
DKK3	751.7387703	147.7091229	22.22345463
ARHGEF5	12.10706658	3.319306133	2.222345463
NFE2L3	85.85010847	173.4337455	40.00221833
MCUR1	211.3233439	713.6508187	337.7965104
LIMA1	2166.064275	426.5308382	985.6102128
LETMD1	537.1134992	288.7796336	323.3512648
SLC4A8	77.04496914	213.2654191	127.7848641
LAMC3	145.284799	73.85456147	244.4580009
PTGER3	178.3040714	53.10889814	123.3401732
TNIP3	27.51606041	5.808785734	11.11172731
MAPK9	1211.8073	1546.796658	566.698093
COL23A1	24.21413316	71.36508187	42.22456379
BCAR1	40.7237694	54.7685512	43.33573653
FHIP1B	417.1434758	375.0815931	874.4929396
HERPUD1	1304.261263	540.2170732	1588.977006
HOMER3	123.2719506	34.8527144	33.33518194
RAD51	19.81156349	210.7759395	22.22345463
POLQ	194.8137077	1772.509475	85.56030032
PIK3CB	1586.025722	1682.058383	1630.090397
CYBA	175.0021442	391.6781237	136.674246
THOC3	208.0214167	578.3890938	194.455228
HEBP2	967.4646839	721.949084	822.2678213
MPHOSPH	808.972176	3185.704062	428.9126743
PLEKHA5	1704.895103	5154.052599	964.4979309
PRSS8	1109.447556	48.12993894	63.33684569
SIKE1	213.5246288	590.0066652	295.5719466
RRP12	239.9400468	186.71097	547.8081566
FNIP2	807.8715336	840.6142783	804.4890576
MSMO1	219.0278408	740.2052678	597.8109295
TTC17	2608.522527	1998.222292	2499.027473
ALX4	7.704496914	153.5179087	198.8999189
FSTL4	28.61670282	487.1081751	34.44635467
FOXN3	945.4518356	863.8494212	941.1633035
METTL24	59.43469048	12.447398	33.33518194
AKR7A2	266.3554647	345.2078379	633.3684569

MRTO4	105.661672	292.9287663	117.7843095
NNAT	4.402569665	741.0350943	118.8954823
USE1	132.07709	115.3458881	90.00499125
MCF2L2	128.7751627	101.2388371	56.6698093
NRIP2	0	0	5.555863657
LAMA3	873.9100785	129.4529392	3485.748859
AP5M1	685.7002254	1221.504657	746.7080755
ANAPC4	453.4646755	416.5729197	391.1328015
KCNQ1	108.9635992	85.47213294	321.1289194
TRAPPC3	154.0899383	474.6607771	444.4690926
THRAP3	2691.070708	2746.725825	2463.469946
PHPT1	302.6766645	759.291278	945.6079945
ENTPD2	129.8758051	963.4286052	298.9054648
LY75	3.301927249	1.659653067	4.444690926
ARID4B	3603.503271	1941.794088	1665.647924
OPN3	36.32119974	20.74566333	15.55641824
SDCCAG8	171.7002169	9.128091867	2.222345463
PTPRN	16.50963624	439.8080627	8.889381852
HHAT	16.50963624	9.128091867	5.555863657
KIF1B	1709.297673	3475.313522	2779.043001
FOXC1	354.406858	453.9151138	536.6964293
TBC1D22A	685.7002254	365.1236747	408.9115652
SYNE2	10343.83743	46955.73439	6770.375453
PLEKHH1	1373.601736	303.7165112	7207.066336
ATP9A	2082.415452	1498.666719	2801.266456
SPO11	7.704496914	7.4684388	3.333518194
CBLN4	5.503212081	7.4684388	33.33518194
CHRDL2	56.13276323	16.59653067	60.0033275
FAM168A	887.1177875	1048.900738	787.8214666
RELT	26.41541799	98.74935747	60.0033275
GALC	1216.20987	723.6087371	917.8286762
NOP58	1089.635992	1670.440812	577.8098203
SZRD1	3.301927249	4.149132667	2.222345463
KCNH2	267.4561072	386.6991645	120.006655
CUL1	847.4946605	547.685512	502.2500746
FAM114A1	361.0107125	282.1410213	314.461883
CYFIP2	1350.488245	1571.691454	1401.188814
TAB2	9013.160747	4753.246383	3115.728339
GINM1	558.0257051	1316.934708	1304.516787
EIF2AK2	2310.248432	3198.15146	1041.168849
USP36	1627.850134	1066.327095	1347.852523
KMT2C	19504.48426	10718.86933	8112.672112
MCOLN3	31.91863007	783.3562475	113.3396186
CCDC85A	14.30835141	2.4894796	37.77987287

PUM2	3902.878008	5300.931895	4083.559788
MRPL43	403.9357668	356.8254093	510.0282837
ITIH4	1.100642416	0	3.333518194
ITIH1	5.503212081	2.4894796	56.6698093
HPF1	184.9079259	453.0852872	268.903801
ZFR	4543.451894	4385.633229	2830.156947
ZNF280C	467.7730269	574.2399611	273.3484919
NPFFR2	14.30835141	0.829826533	24.44580009
PHF21B	256.449683	115.3458881	145.5636278
TRAF1	104.5610295	22.4053164	92.22733671
RC3H2	1950.338362	3421.374797	2032.334926
IL17RB	145.284799	987.4935747	78.89326393
TRAF3IP2	945.4518356	218.2443783	267.7926283
GYG2	93.55460539	44.8106328	134.4519005
DCBLD2	774.8522611	1304.48731	711.1505481
SERPINB3	129.8758051	2.4894796	0
SOAT1	1103.944344	1012.388371	1761.208779
PKP2	766.0471217	1074.625361	2549.030246
MSH4	29.71734524	28.21410213	64.44801842
F7	6.603854498	1.659653067	1.111172731
GDI2	2058.201318	3313.497348	1776.765198
PRDM1	278.4625313	111.1967555	91.11616398
ATG5	232.2355498	201.6478476	182.232328
TMCC3	380.822276	210.7759395	338.9076831
PITHD1	333.4946521	642.2857368	200.0110917
MTA3	1149.070683	1504.475505	920.0510216
USP13	27.51606041	56.42820427	5.555863657
ATP11B	3814.826615	3081.975745	3813.544814
LAMC2	310.3811614	50.61941854	216.6786826
CDK14	502.9935842	436.4887566	696.7053026
SEC61A1	2376.286977	1975.816976	2935.718356
PPP1R12A	4994.715285	3487.76092	2556.808455
RASGRF1	70.44111464	204.1373272	207.7893008
CAMK2B	132.07709	563.4522162	62.22567296
CROCC	15.40899383	8.298265334	18.88993643
POLR3E	18.71092108	6.638612267	11.11172731
ATP2B4	1906.312665	758.4614515	531.1405656
ZC3H11A	7.704496914	9.9579184	1.111172731
RIOK2	347.8030036	277.1620621	141.1189369
YIPF1	551.4218506	184.2214904	653.3695661
NDC1	543.7173537	591.6663183	464.4702017
DGKG	51.73019357	87.96161254	10.00055458
FLYWCH1	390.7280578	167.6249597	660.0366025
UNKL	126.5738779	151.8582556	630.0349387

TBXAS1	226.7323378	112.026582	292.2384284
PARP12	431.4518272	236.500562	257.7920737
ALDH18A	1163.379034	934.3846766	846.7136214
TARBP1	1730.209878	417.4027463	4789.154472
GATB	170.5995745	341.0587052	234.4574463
MXD1	44.02569665	181.7320108	54.44746384
CDK17	943.2505508	960.1092991	1414.522887
DNAJC25	147.4860838	78.00369414	84.44912759
SLC2A3	103.4603871	185.0513169	123.3401732
PSD	15.40899383	92.1107452	30.00166375
CTDP1	37.42184215	54.7685512	8.889381852
YBX3	1555.207734	689.5858492	1386.743569
STYK1	61.63597531	125.3038065	72.22622754
WNK1	12702.51413	12230.81328	7721.539311
CCAR1	3139.032171	2279.533487	1381.187705
OGFR	423.7473303	248.94796	587.8103749
GNA15	83.64882364	9.9579184	36.66870014
CREB3L3	2.201284833	1.659653067	6.667036389
PIGV	148.5867262	179.2425312	405.578047
PTPRU	756.14134	958.449646	1530.084851
SNRNP40	316.9850159	824.8475742	545.5858111
RIMBP2	45.12633907	6.638612267	35.55752741
COL11A1	57.23340565	1589.947638	2000.110917
QSER1	2210.089972	4169.87833	993.3884219
MPC1	124.372593	295.4182459	98.8943731
ACAA1	372.0171367	178.4127047	345.5747195
BCAT1	63.83726015	141.0705107	38.8910456
HDAC7	576.7366261	256.4163988	1030.057122
LZTS1	47.3276239	190.8601027	38.8910456
PRDM6	111.164884	29.04392867	140.0077642
WNT8A	3.301927249	0	1.111172731
SPAG4	14.30835141	26.55444907	45.55808199
NCKAP1	2838.556792	3537.550512	2743.485474
MRPS35	442.4582514	1004.919932	433.3573653
GUCY1B1	347.8030036	82.98265334	575.5874749
SFSWAP	1368.098523	1052.220044	948.9415126
TNK2	731.9272068	515.3222772	2576.809564
MON2	4303.511848	1481.240362	2371.242609
CDH3	643.8758135	30.70358173	263.3479374
ARSF	1.100642416	0.829826533	3.333518194
GPBP1	872.8094361	759.291278	513.3618019
DGAT2	52.83083598	53.10889814	64.44801842
ZNF112	256.449683	331.1007868	186.6770189
CS	1381.306232	1708.612832	933.3850944

LTK	13.207709	9.9579184	17.7787637
MRPS24	2.201284833	0.829826533	0
ELMO2	585.5417655	710.3315126	650.0360479
WAPL	2021.880119	2227.254416	1270.070432
VMP1	1512.28268	2090.333038	1266.736914
APPBP2	1266.839421	1185.822116	976.7208309
POLD1	119.9700234	508.683665	306.6836739
SEZ6	4.402569665	795.8036455	10.00055458
EIF4B	3319.537528	1568.372148	1286.738023
SLC6A16	257.5503254	233.1812559	195.5664007
BICRA	532.7109295	494.5766139	837.8242395
SPHK2	156.2912231	166.7951332	532.2517384
RPL18	1072.025713	1091.221891	1437.857514
CA11	63.83726015	87.131786	220.0122008
ISOC2	178.3040714	271.3532764	412.2450834
U2AF2	1281.147773	2050.501364	2423.467727
EPN1	662.5867346	762.6105842	1542.307751
MED29	253.1477557	273.842756	341.1300286
AHRR	6.603854498	15.76670413	4.444690926
GSC2	3.301927249	1.659653067	0
ZNF275	259.7516102	326.1218276	182.232328
MTMR1	501.8929418	546.025859	463.359029
GPC1	638.3726015	1308.636443	1134.507359
ADCK1	162.8950776	101.2388371	123.3401732
HAGH	203.618847	497.0660935	397.7998379
RNF4	116.6680961	166.7951332	144.4524551
CASP8	311.4818038	245.6286539	344.4635467
LIMCH1	6402.436936	3179.065449	2469.025809
INTS13	646.0770984	1151.799228	511.1394565
TM7SF3	910.2312783	1656.333761	1522.306642
DLX3	44.02569665	80.49317374	6.667036389
SPA17	64.93790256	190.8601027	66.67036389
TSPAN32	6.603854498	0	13.33407278
CCN5	5.503212081	3.319306133	6.667036389
DMRT3	1.100642416	1.659653067	40.00221833
ST3GAL6	136.4796596	106.2177963	40.00221833
ATP2C2	352.2055732	43.15097974	248.9026918
NGFR	80.34689639	39.00184707	30.00166375
CDON	267.4561072	799.1229516	656.7030843
TAF2	1728.008594	4298.501443	1444.524551
HIPK2	9124.325631	2106.099742	3366.853376
TNPO3	1140.265543	757.631625	811.1560939
RFXANK	117.7687385	125.3038065	238.9021373
TMEM161	160.6937928	97.0897044	344.4635467

LPAR2	90.25267814	153.5179087	310.0171921
CTSA	1230.518221	1565.882668	2909.050211
SUGP2	2312.449717	2128.505058	3651.313596
SLC12A2	2459.9358	878.7862988	3401.299731
SNX24	129.8758051	111.1967555	95.5608549
EYA2	1005.987168	427.3606647	813.3784394
CNN2	591.0449776	151.0284291	276.6820101
ABCA7	247.6445437	463.0432056	1161.175504
SNCAIP	266.3554647	621.5400735	31.11283648
DDX20	491.9871601	780.0369414	276.6820101
BTBD1	1092.937919	1277.103035	730.0404846
FAR2	68.23982981	829.8265334	52.22511838
BCAS1	1390.111372	4.149132667	170.0094279
POU1F1	5.503212081	0	4.444690926
CHI3L2	63.83726015	5.808785734	23.33462736
SBNO2	90.25267814	18.25618373	98.8943731
PMS1	499.691657	583.368053	386.6881105
HMG20B	672.4925164	522.790716	1310.07265
CALCRL	126.5738779	156.8372148	84.44912759
TAF11	203.618847	538.5574202	334.4629922
ANKS1A	1015.89295	522.790716	1492.304978
AP3D1	3298.625322	2774.939928	4823.600827
ZNF76	368.7152095	220.7338579	525.584702
NHERF2	566.8308444	296.2480724	505.5835928
NTHL1	34.11991491	116.1757147	114.4507913
BLTP3A	616.3597531	661.3717471	1070.05934
GNAI3	402.8351244	1064.667442	508.917111
IPO5	1526.591031	2669.551958	1978.998635
OAT	433.653112	1238.931014	642.2578388
WDR3	737.4304189	1055.53935	775.5985665
PKN2	1616.84371	2659.594039	1505.639051
WDR18	84.74946605	189.2004496	346.6858922
TRAM2	313.6830886	299.5673785	333.3518194
NTN1	156.2912231	92.94057174	92.22733671
GLP2R	2.201284833	1.659653067	18.88993643
MCM10	17.61027866	638.9664307	8.889381852
DGKA	464.4710997	47.3001124	158.8977006
ERBB3	2643.743084	400.8062156	1863.436671
ROPN1	3.301927249	1.659653067	5.555863657
ANKRD44	760.5439097	864.6792478	600.033275
KARS1	1014.792308	1248.888933	1140.063222
ADAT1	217.9271984	393.3377768	261.1255919
PDIA5	572.3340565	243.9690008	175.5652916
TBC1D22I	509.5974387	412.4237871	440.0244016

NDUFB4	381.9229185	770.079023	995.6107674
SPEN	14006.77539	16150.08399	11652.86843
MYLK	7407.323462	445.6168484	810.0449212
ZC3H15	549.2205657	620.710247	218.9010281
MAP2K4	381.9229185	488.7678282	551.1416748
PACC1	134.2783748	207.4566333	88.89381852
SNAP91	23.11349074	6.638612267	85.56030032
SLK	1343.88439	999.1111462	676.7041934
CYB5R4	199.2162773	311.18495	144.4524551
COL17A1	137.580302	11.61757147	11.11172731
GSTO2	175.0021442	10.78774493	21.1122819
SEC61A2	217.9271984	638.9664307	365.5758286
PRKCQ	75.94432672	4.149132667	23.33462736
TLE2	465.5717421	696.2244615	1020.056567
ASB1	228.9336226	309.5252969	348.9082377
FAM107B	429.2505424	487.9380016	117.7843095
ME1	160.6937928	136.0915515	422.2456379
TBC1D1	698.9079343	1087.072759	1236.73525
CDK13	2033.987185	1207.397606	881.159976
MTHFD2	199.2162773	590.8364918	66.67036389
SLC9A7	514.0000084	367.6131543	1442.302205
FOXJ2	672.4925164	370.1026339	223.345719
YBX1	2750.505398	2314.386202	1242.291114
PDE4A	136.4796596	109.5371024	201.1222644
PPP2R5A	423.7473303	534.4082875	560.0310566
CTNNA2	13.207709	369.2728073	250.0138646
ELAVL1	1314.167045	2335.961691	1444.524551
TIE1	72.64239948	105.3879697	118.8954823
DIP2B	1479.263408	1172.544892	1597.866388
SMARCD1	544.8179961	590.0066652	360.019965
KDM4A	275.1606041	195.0092353	405.578047
NFYC	555.8244202	667.1805328	704.4835117
ZMYND12	36.32119974	14.9368776	26.66814555
SLC9A3	4.402569665	9.128091867	124.4513459
NGEF	25.31477557	49.789592	14.44524551
ASPM	631.768747	9769.547777	92.22733671
CD84	331.2933673	96.25987787	71.11505481
ELOVL1	298.2740948	105.3879697	394.4663197
SPI1	338.9978642	152.6880821	197.7887462
MPPED2	348.903646	36.51236747	82.22678213
CLDN18	4.402569665	4.9789592	1.111172731
ZBTB11	1611.340497	1770.849822	1130.062668
ATXN3	807.8715336	856.3809824	470.0260654
GOLGA5	1959.143501	1102.839463	783.3767757

FGFR2	1146.869398	590.8364918	811.1560939
LRRC40	227.8329802	307.8656439	271.1261465
ISOC1	250.9464709	475.4906036	160.0088733
EML1	359.9100701	678.7981043	313.3507103
TRMT11	325.7901552	258.9058784	223.345719
THUMPD1	1247.027858	965.9180848	878.9376306
MSANTD3	198.1156349	624.8593796	231.1239281
KIF26A	46.22698148	705.3525534	107.7837549
ATG2B	2316.852286	909.4898806	2975.720575
ARFGEF1	11180.32566	6169.760276	6332.573396
ACSM2B	7.704496914	4.9789592	31.11283648
ZFAT	500.7922994	641.4559103	664.4812934
MTFR1	298.2740948	444.7870219	124.4513459
STAG3	15.40899383	4.9789592	68.89270935
FECH	486.483948	496.236267	610.0338296
MYO9A	4974.903722	1843.874557	1838.990871
DDX3Y	1617.944352	195.0092353	317.7954012
PFKP	1028.000017	2506.076131	735.5963482
IDI1	320.2869431	790.8246863	246.6803464
SP100	1400.017154	470.5116444	438.9132289
KLF6	471.0749542	518.6415834	592.2550659
PLPP1	1605.837285	440.6378892	2850.158056
NEO1	3644.22704	1406.555974	3080.170812
TRAM1	2720.788053	1814.830628	1448.969242
PHKA1	469.9743118	412.4237871	410.0227379
TNFRSF1A	719.8201403	253.9269192	677.8153662
CACNB1	130.9764475	139.4108576	186.6770189
EVI5	1251.430427	1191.630902	1110.061559
STOML1	44.02569665	18.25618373	64.44801842
PKM	3066.389772	5073.559425	2114.561708
DHX29	1172.184173	736.0561351	774.4873938
DNTTIP2	1318.569615	2023.946915	863.3812123
METTL22	230.034265	188.3706231	272.2373192
TP53BP1	2878.179919	3230.514694	2576.809564
TRO	80.34689639	20.74566333	133.3407278
RRP15	205.8201318	262.2251845	55.55863657
RHOA	361.0107125	347.6973175	346.6858922
DHX8	964.1627567	1428.131464	1280.070987
PRKCZ	386.3254881	341.0587052	654.4807388
ZFY	427.0492575	64.7264696	137.7854187
IARS2	1554.107092	3212.258511	2292.349345
SYT1	158.4925079	2685.318662	127.7848641
NAV3	983.9743202	252.2672661	932.2739217
IDH3G	633.9700318	375.9114196	612.256175

ROGDI	63.83726015	80.49317374	18.88993643
PDZD4	72.64239948	268.8637968	454.4696472
ATP2B3	11.00642416	672.159492	31.11283648
ROCK1	2466.539655	2158.378813	1103.394522
CBFB	314.7837311	555.9837774	243.3468282
PDK3	220.1284833	948.4917276	601.1444477
HYAL2	211.3233439	268.8637968	273.3484919
HDAC4	670.2912315	722.7789106	1092.282795
RASSF1	128.7751627	69.7054288	121.1178277
FGFR3	41.82441182	144.3898168	455.5808199
IFI35	80.34689639	29.04392867	108.8949277
HEATR6	702.2098616	903.6810948	985.6102128
COASY	587.7430503	463.0432056	957.8308945
PLEKHH3	271.8586768	392.5079503	766.7091847
MEF2A	872.8094361	476.3204302	741.1522119
TBC1D25	94.6552478	127.7932861	173.3429461
ACSL4	825.4818122	915.2986663	678.9265389
INPP5A	550.3212081	394.1676033	456.6919926
GRIPAP1	0	0	1.111172731
FTSJ1	212.4239863	209.9461129	270.0149737
PRR11	37.42184215	665.5208798	20.00110917
REEP1	71.54175706	134.4318984	114.4507913
ATP11A	812.2741032	846.423064	2049.002517
POLR1A	1358.192742	1681.228557	1835.657352
LAPTM4A	1857.884399	1550.115964	2300.127554
TTC7A	309.280519	353.5061032	382.2434196
IP6K2	1186.492525	971.7268706	755.5974574
STON1-GT	0	4.149132667	1.111172731
SRBD1	1018.094235	1465.473658	594.4774113
KIF2A	822.179885	2408.1566	590.0327204
RASGRP2	212.4239863	45.64045934	233.3462736
PSME4	2953.023603	5468.556855	3484.637686
IFT80	83.64882364	92.1107452	78.89326393
ERLEC1	1191.995737	1121.095647	1351.186041
PPP2R5B	95.75589022	107.0476228	290.0160829
PYGM	182.7066411	49.789592	103.339064
PAGE1	1.100642416	0.829826533	7.77820912
PITX1	48.42826632	158.4968679	1.111172731
TRPC7	9.905781747	29.8737552	23.33462736
MAST4	2060.402603	619.8804204	3817.989505
ADGRF5	321.3875856	470.5116444	186.6770189
SDK2	774.8522611	1717.740924	6949.274262
ADAM7	8.80513933	4.149132667	13.33407278
NUP133	1220.61244	1534.34926	1321.184378

NUCKS1	5503.212081	6674.294808	3669.092359
VPS35	2249.713099	3944.165513	2627.92351
DNAJA2	1108.346913	1442.238515	952.2750308
BCL3	168.3982897	45.64045934	314.461883
KCNAB2	117.7687385	227.3724701	67.78153662
ABCC9	1504.578183	718.6297779	110.0061004
GAL	4.402569665	21.57548987	160.0088733
CLEC2D	215.7259136	217.4145517	91.11616398
FUNDC1	104.5610295	229.8619497	125.5625187
MAOB	1116.05141	27.3842756	86.67147305
RORA	1183.190598	1052.220044	441.1355744
DRD4	2.201284833	0	5.555863657
TGFBR3	784.7580428	318.6533888	1085.615759
PLA2G10	0	0	1.111172731
HES2	11.00642416	7.4684388	0
ATP1B3	275.1606041	590.8364918	490.0271746
NEDD4	474.3768814	256.4163988	246.6803464
PIGB	156.2912231	112.8564085	142.2301096
MAPK6	482.0813783	781.6965944	301.1278102
GNB5	183.8072835	426.5308382	310.0171921
RAB27A	937.7473387	267.2041437	72.22622754
HDHD5	232.2355498	315.3340827	206.678128
UFD1	489.7858753	803.2720843	560.0310566
LRP6	5.503212081	2.4894796	4.444690926
GUCY2C	23.11349074	12.447398	15.55641824
PHRF1	129.8758051	19.08601027	34.44635467
ELP1	990.5781747	1579.98972	2505.694509
NUCB2	1221.713082	1705.293526	2173.453863
PFN2	854.098515	4783.120138	2297.905209
PTPN3	1216.20987	1724.379536	873.3817669
SPTB	90.25267814	1837.235945	1115.617422
DAPP1	29.71734524	115.3458881	11.11172731
FGF10	70.44111464	1.659653067	6.667036389
SLC44A1	943.2505508	1730.188322	1644.535643
TMEM260	679.0963709	412.4237871	482.2489654
SMG6	2347.670274	2443.839141	3055.725011
EXOC5	1000.483956	2608.974621	788.9326393
CLTCL1	305.9785917	311.18495	960.05324
FGF22	5.503212081	4.149132667	11.11172731
FSTL3	136.4796596	30.70358173	104.4502368
DGCR2	961.9614718	550.1749916	1020.056567
RNF126	169.4989321	241.4795212	393.3551469
MNT	804.5696063	737.7157882	1472.303869
ZXDC	1234.920791	771.738676	1602.311079

JMJD6	333.4946521	542.7065528	406.6892197
POLB	396.2312699	555.1539508	940.0521308
ST6GALN	709.9143585	1.659653067	45.55808199
WIPI1	385.2248457	151.0284291	514.4729747
FRMPD1	20.91220591	90.45109214	92.22733671
GBA2	682.3982981	727.7578698	1386.743569
NDST1	957.5589022	468.8519914	750.0415937
ASNS	9.905781747	4.149132667	0
AP3M2	310.3811614	795.8036455	243.3468282
CNGB1	0	229.8619497	8.889381852
ST6GALN	38.52248457	38.17202053	6.667036389
CHAT	5.503212081	3.319306133	22.22345463
PABPC1	25117.76058	30151.74709	18076.558
TESK2	407.237694	50.61941854	434.468538
CFAP20	344.5010763	789.9948598	257.7920737
CSNK2A2	444.6595362	588.3470122	284.4602192
PTPN21	1557.409019	447.2765015	587.8103749
EIF2B3	425.9486151	274.6725825	328.9071285
CAMK2A	5.503212081	3.319306133	12.22290005
TCOF1	332.3940097	515.3222772	293.3496011
CDC42	99.05781747	248.1181335	20.00110917
OSBPL3	270.7580344	1077.944667	148.897146
EPHA8	14.30835141	135.2617249	25.55697282
SLC12A3	13.207709	2.4894796	41.11339106
RAD18	217.9271984	765.9298903	132.229555
ATP2B1	2842.959361	1636.417924	3922.439742
TRPM5	6.603854498	15.76670413	37.77987287
NCK2	255.3490406	501.2152262	334.4629922
MAP4K4	3120.32125	4172.36781	2520.139755
MGAT4A	804.5696063	2568.313121	740.0410391
RPL31	286.1670282	307.0358173	142.2301096
WDR1	2382.890831	2813.941775	4098.005034
SNX13	1625.648849	924.4267582	894.4940488
MS4A12	6.603854498	0.829826533	4.444690926
ARHGAP1	875.010721	1125.244779	998.9442856
RPS6KA2	707.7130737	517.8117568	1544.530097
ING3	257.5503254	170.1144393	108.8949277
VASH1	116.6680961	167.6249597	104.4502368
LMCD1	429.2505424	257.2462253	57.78098203
BUD23	353.3062156	380.8903788	333.3518194
SEL1L	8094.124329	2656.274733	2169.009172
TRIP13	53.9314784	209.9461129	15.55641824
ATP6AP1	1005.987168	1754.253292	3434.634913
TCF3	427.0492575	789.1650332	953.3862036

TRIB2	298.2740948	1804.87271	1172.287232
DAZAP1	1089.635992	1575.01076	1070.05934
MBD3	38.52248457	91.28091867	32.22400921
PRLH	0	0	1.111172731
HLTF	1679.580327	4199.752085	1692.31607
FAM50A	400.6338395	330.2709603	330.0183012
FAM3A	170.5995745	105.3879697	244.4580009
CPSF1	1.100642416	0.829826533	2.222345463
MYO3B	34.11991491	68.87560227	30.00166375
CYBRD1	1219.511797	224.053164	776.7097393
CDH19	163.99572	7.4684388	30.00166375
PDCD2	346.7023611	835.6353191	461.1366835
SLC6A15	20.91220591	8.298265334	55.55863657
RDH11	2065.905815	495.4064404	2303.461072
PRKACA	0	0.829826533	0
ADGRL1	2.201284833	1.659653067	0
SPP2	9.905781747	3.319306133	6.667036389
ACTN1	3750.989355	1858.811435	1423.412269
ZFYVE26	1340.582463	1173.374718	2864.603302
RPS6KA6	396.2312699	576.7294407	555.5863657
EPN2	545.9186385	509.5134915	858.9365214
PTPN18	312.5824462	197.4987149	281.1267011
LIMS2	256.449683	24.06496947	82.22678213
ASIC4	2.201284833	6.638612267	24.44580009
SPEG	505.1948691	172.6039189	390.0216287
LNX1	52.83083598	52.2790716	87.78264578
ALDH3A2	1124.856549	1986.604721	1018.945395
TFRC	1061.019289	5130.817456	560.0310566
SREBF1	1358.192742	362.6341951	1817.878589
TRPC5	9.905781747	3.319306133	8.889381852
AFF4	4138.415485	3194.002327	3067.947912
UBE2D1	238.8394043	287.9498071	197.7887462
PALS1	957.5589022	669.6700124	648.9248752
RHOBTB1	484.2826632	315.3340827	641.146666
SMC1A	2472.042867	4300.161096	1534.529542
HSD17B10	197.0149925	450.5958076	422.2456379
MARK2	1260.235567	1072.965708	1214.511795
HMMR	41.82441182	463.8730322	8.889381852
CHFR	387.4261305	677.1384512	816.7119576
TRHDE	212.4239863	34.02288787	114.4507913
P4HA2	257.5503254	473.8309506	221.1233736
FCGR2B	41.82441182	8.298265334	14.44524551
NFATC3	1576.11994	1390.78927	810.0449212
TRNT1	355.5075005	394.1676033	1651.202679

ACADVL	1659.768764	1223.16431	4331.351307
STK10	418.2441182	512.8327976	338.9076831
FBXW11	1458.351202	2259.61765	1323.406723
CRMP1	56.13276323	1472.942097	73.33740027
EVC	490.8865177	159.3266944	735.5963482
DERL2	154.0899383	328.6113072	226.6792372
SIDT1	294.9721676	14.10705107	531.1405656
IRAG1	1145.768755	31.53340827	93.33850944
TMEM38A	67.13918739	127.7932861	191.1217098
AP1M1	324.6895128	446.446675	372.242865
PVR	228.9336226	394.9974299	265.5702828
XRCC1	220.1284833	444.7870219	464.4702017
SCARB1	861.803012	376.7412461	1018.945395
CYP2W1	1.100642416	1.659653067	0
MCM2	230.034265	2417.284692	335.5741649
MOV10L1	116.6680961	9.9579184	64.44801842
PANX2	286.1670282	37.342194	300.0166375
SELENOO	282.865101	61.40716347	207.7893008
TP63	757.2419824	109.5371024	66.67036389
ALPK1	414.9421909	71.36508187	193.3440553
LLGL2	461.1691724	523.6205426	1290.071541
PDE8A	771.5503338	606.6031959	462.2478563
CLCN4	129.8758051	208.2864599	164.4535643
NLE1	108.9635992	142.7301637	248.9026918
SDHA	40.7237694	68.87560227	25.55697282
SMARCE1	199.2162773	207.4566333	83.33795486
FNDC8	0	0	13.33407278
GSDMB	444.6595362	210.7759395	266.6814555
KDM5A	2561.194903	2891.115642	4895.827055
ADAM11	22.01284833	23.23514293	96.67202764
PPP2R3A	828.7837395	1036.45334	1025.612431
FERMT2	1789.644569	2322.684467	640.0354933
ABCB11	17.61027866	6.638612267	12.22290005
DHRS9	15.40899383	4.9789592	0
CD5L	0	9.9579184	14.44524551
PTGS2	411.6402637	19.08601027	166.6759097
IGF2BP2	28.61670282	12.447398	100.0055458
MAP3K13	528.3083598	536.0679406	335.5741649
ST6GAL1	800.1670366	177.5828781	762.2644938
TBX21	7.704496914	46.47028587	5.555863657
VDAC1P1	2.201284833	2.4894796	10.00055458
FRY	2413.708819	814.0598292	294.4607738
PICALM	3131.327674	2796.515417	2067.892453
NSF	44.02569665	9.128091867	5.555863657

GLI2	316.9850159	410.764134	197.7887462
CLASP1	1710.398315	1590.777464	1845.657907
MRPS34	301.5760221	380.0605523	316.6842285
NOTCH3	1719.203454	1306.146964	4000.221833
CLNS1A	695.6060071	1276.273208	603.3667932
PPP2R2C	148.5867262	370.1026339	433.3573653
TEAD2	312.5824462	394.1676033	320.0177467
EED	368.7152095	682.1174104	263.3479374
CDHR2	11.00642416	12.447398	27.77931829
SNCB	6.603854498	29.8737552	5.555863657
TSG101	573.4346989	938.5338092	788.9326393
NCBP3	1371.400451	1555.92475	1012.278358
ATP2A3	408.3383364	1594.096771	257.7920737
CA12	37.42184215	10.78774493	27.77931829
MGLL	140.8822293	106.2177963	2159.008617
NTN4	624.06425	121.9845004	755.5974574
BCS1L	227.8329802	209.9461129	204.4557826
NUAK1	330.1927249	385.0395115	236.6797918
DPP8	935.5460539	701.2034207	623.3679023
SLC24A1	248.7451861	84.6423064	220.0122008
ZNF532	5386.543985	1359.255862	835.601894
LMAN1	3015.760221	1706.953179	1405.633505
HACD3	924.5396297	867.1687274	592.2550659
IPCEF1	12.10706658	4.149132667	1.111172731
ZZEF1	2440.124237	2008.180211	3321.295294
NOX3	11.00642416	3.319306133	25.55697282
ENO1	1286.650985	9728.056451	3804.655432
SLC12A1	62.73661773	7.4684388	25.55697282
MYDGF	175.0021442	357.6552359	293.3496011
ANO8	277.3618889	419.8922259	480.02662
TUBE1	388.526773	165.1354801	96.67202764
ARHGEF1	517.3019357	287.9498071	812.2672667
TXK	122.1713082	55.59837774	107.7837549
WSCD2	37.42184215	4.149132667	16.66759097
KCNQ2	9.905781747	39.00184707	42.22456379
TACR2	31.91863007	1.659653067	5.555863657
ACTR6	187.1092108	413.2536136	334.4629922
TIPIN	95.75589022	321.9726949	26.66814555
SRI	356.6081429	455.5747668	338.9076831
EIF4G3	4998.017212	3291.921858	6148.118723
NUP37	144.1841565	365.1236747	443.3579198
SEMA3A	188.2098532	1249.718759	24.44580009
GTSE1	56.13276323	375.9114196	11.11172731
SEMA3C	2160.561063	81.32300027	923.3845398

TTC38	548.1199233	204.9671537	337.7965104
ACAT1	522.8051477	353.5061032	216.6786826
GRAMD4	173.9015018	142.7301637	360.019965
CELSR1	2945.319106	657.2226144	3180.176357
WNT8B	6.603854498	2.4894796	4.444690926
ZNF638	3396.582497	3442.12046	2453.469391
SLC25A40	294.9721676	309.5252969	168.8982552
TIMM21	149.6873686	234.0110824	64.44801842
ADD2	5.503212081	275.5024091	54.44746384
FGF4	3.301927249	6.638612267	1.111172731
RASAL2	1074.226998	916.9583194	1137.840877
VPS9D1	126.5738779	79.6633472	313.3507103
ZNF37A	571.2334141	760.9509311	161.1200461
MARK3	2330.059995	1787.446353	994.4995946
SLC25A3	1601.434716	3235.493654	2500.138646
FNDC3B	3724.573937	3833.798584	2800.155283
FOSL2	540.4154264	382.5500319	535.5852566
CACNG5	9.905781747	94.6002248	21.1122819
CACNG4	144.1841565	298.737552	183.3435007
FRYL	3586.993635	7895.799465	3372.40924
TMEM131	3.301927249	1.659653067	0
FSCN1	84.74946605	350.1867971	583.365684
ACTB	16580.07736	11069.88596	12162.89672
MOCOS	96.85653263	136.921378	98.8943731
PLD1	389.6274154	452.2554607	1400.077642
ATP12A	8.80513933	8.298265334	551.1416748
WDR62	38.52248457	760.9509311	61.11450023
DLG1	3725.674579	5801.317295	3120.17303
RAB7A	1263.537494	1619.821393	1104.505695
BCAP29	1.100642416	0	0
SEC31B	169.4989321	130.2827657	287.7937374
SART3	931.1434842	1330.211933	1097.838659
ARHGAP1	190.411138	33.19306133	42.22456379
TUBA3D	3.301927249	0	0
PAX2	5.503212081	0.829826533	16.66759097
EXOSC7	249.8458285	151.0284291	276.6820101
KIFAP3	709.9143585	1055.53935	894.4940488
MKRN2	363.2119974	491.2573078	524.4735292
MCM6	416.0428334	2790.706632	217.7898554
REXO2	308.1798766	273.842756	615.5896932
RBM7	104.5610295	109.5371024	101.1167186
RBMS2	1010.389738	200.8180211	313.3507103
BAZ2A	4047.062165	1815.660455	2687.926837
PTPN23	1823.764484	989.9830543	1866.770189

MLH1	931.1434842	948.4917276	661.1477752
UNG	163.99572	1291.210086	215.5675099
FMO4	64.93790256	55.59837774	84.44912759
KLHL20	298.2740948	273.842756	370.0205196
RGS11	269.657392	22.4053164	355.5752741
SLC46A1	395.1306275	356.8254093	400.0221833
PLXNA2	573.4346989	3474.483695	795.5996757
SPAG5	143.0835141	1670.440812	411.1339106
ANKRD13	1124.856549	576.7294407	554.475193
TPD52	248.7451861	1327.722453	250.0138646
ACACB	985.0749626	669.6700124	836.7130668
TRAF4	479.8800935	883.765258	1055.614095
PAG1	311.4818038	307.0358173	494.4718655
GPATCH1	323.5888704	286.290154	355.5752741
ICAM3	182.7066411	64.7264696	146.6748005
NT5C2	1234.920791	726.0982167	861.1588669
MCAM	417.1434758	294.5884193	143.3412824
GPC4	320.2869431	947.6619011	1145.619086
MBNL3	549.2205657	338.5692256	386.6881105
CAMSAP3	299.3747372	379.2307257	903.3834307
RAP1GAP	712.1156433	289.6094601	633.3684569
XAB2	860.7023695	965.9180848	1755.652916
ARHGEF1	654.8822377	394.9974299	1590.088179
STXBP2	68.23982981	57.2580308	186.6770189
MAP2K7	263.0535375	399.9763891	502.2500746
NMRK2	0	2.4894796	2.222345463
DGKD	744.0342734	425.7010116	1105.616868
CTTNBP2	460.06853	173.4337455	140.0077642
ACTL6B	4.402569665	82.98265334	42.22456379
RARB	416.0428334	58.91768387	68.89270935
TOP2B	9207.974455	13194.24188	6283.681796
TM9SF3	3577.087853	3295.241164	3049.057975
NFKB2	341.1991491	126.1336331	483.3601382
UBE2T	44.02569665	887.0845642	61.11450023
PPP1R12B	3032.269857	879.6161254	1185.621304
DNAJC10	1155.674537	2058.799629	1210.067105
GTF3C1	4314.518272	3081.975745	5504.749712
IL4R	629.5674621	238.1602151	890.0493579
USP33	1325.173469	1886.19571	1396.744123
PAK3	59.43469048	59.7475104	52.22511838
CAPN6	29.71734524	3.319306133	10.00055458
DCX	1.100642416	46.47028587	4.444690926
SNRPA	500.7922994	806.5913904	354.4641013
SPAG6	26.41541799	139.4108576	96.67202764

EXOSC5	90.25267814	201.6478476	158.8977006
DYNC1I2	2.201284833	2.4894796	13.33407278
APBB1IP	213.5246288	65.55629614	112.2284459
LRCH4	227.8329802	115.3458881	426.6903289
FAM76B	491.9871601	377.5710727	204.4557826
SIRT6	93.55460539	99.579184	207.7893008
TYR	6.603854498	0.829826533	32.22400921
POLD3	249.8458285	943.5127684	175.5652916
ACTN2	24.21413316	24.894796	32.22400921
CAPZB	2347.670274	2756.683744	2280.126445
GPR137B	585.5417655	385.869338	1320.073205
NAALAD2	9.905781747	0.829826533	2.222345463
JADE1	272.9593192	495.4064404	200.0110917
SLC25A43	74.84368431	67.2159492	46.66925472
UBE2A	154.0899383	35.68254093	51.11394565
FGFR1	1568.415443	512.0029711	1472.303869
FKBP6	4.402569665	0.829826533	0
SMC1B	68.23982981	116.1757147	12.22290005
FBLN1	7160.77956	2408.986426	3861.325242
ITGA8	3644.22704	87.96161254	163.3423915
CST7	48.42826632	9.9579184	17.7787637
MAP2	690.102795	2607.314968	68.89270935
PIAS2	881.6145755	845.5932375	634.4796297
AMPH	19.81156349	285.4603275	7.77820912
ARAF	819.9786001	429.8501443	913.3839852
MCCC1	1064.321217	1053.049871	1476.74856
LAMP3	544.8179961	306.2059908	98.8943731
FAP	313.6830886	71.36508187	83.33795486
NEBL	750.6381279	2865.39102	470.0260654
ACER3	355.5075005	292.9287663	618.9232114
UBE2K	651.5803104	725.2683902	572.2539567
PIK3C3	895.9229269	709.501686	647.8137024
N4BP2	932.2441266	1331.04176	1254.514014
TIGAR	33.01927249	26.55444907	1.111172731
TULP3	488.6852328	633.9874715	337.7965104
SYNJ2	1690.586751	843.1037579	1473.415042
ADCY2	255.3490406	553.4942978	404.4668742
PPP2R5C	1683.982897	3080.316092	1745.652361
RBFOX1	27.51606041	4.9789592	22.22345463
GNB1	1700.492533	2953.352632	3664.647668
HOXA9	136.4796596	0.829826533	67.78153662
EDN1	162.8950776	6.638612267	36.66870014
MLLT10	1869.991465	1809.851669	1016.723049
ZCWPW1	149.6873686	99.579184	111.1172731

ADCYAP1	24.21413316	4.9789592	12.22290005
FGF20	2.201284833	4.9789592	7.77820912
P2RY10	45.12633907	0.829826533	2.222345463
ITM2A	38.52248457	38.17202053	211.122819
NRDC	3639.824471	1943.453741	3043.502111
VDAC3	543.7173537	1808.192016	507.8059383
PCM1	4001.935826	4840.378169	2564.586664
TNRC6C	1923.922944	1258.017025	1235.624077
CBFA2T2	979.5717505	2472.883069	1221.178832
BRINP1	37.42184215	250.6076131	257.7920737
ITCH	57.23340565	99.579184	17.7787637
PKD2L2	6.603854498	5.808785734	18.88993643
TP53INP2	299.3747372	433.999277	158.8977006
SDF4	619.6616804	719.4596044	2269.014718
MYH7B	39.62312699	22.4053164	105.5614095
BPIFB2	33.01927249	4.149132667	5.555863657
TP73	78.14561156	561.7925631	23.33462736
TOLLIP	35.22055732	7.4684388	8.889381852
UBE2D4	230.034265	98.74935747	114.4507913
CLUL1	177.203429	48.95976547	402.2445288
RUNX1T1	504.0942267	2199.040313	165.564737
CDH17	19.81156349	14.10705107	33.33518194
THOC1	631.768747	891.2336968	533.3629111
FKBP7	239.9400468	277.9918887	118.8954823
OSBPL6	374.2184215	376.7412461	293.3496011
SLC1A3	235.5374771	196.6688884	585.5880295
XRCC5	3370.167079	8911.507142	4043.55757
LXN	346.7023611	34.02288787	24.44580009
SP140	166.1970049	12.447398	55.55863657
MKNK1	534.9122143	216.5847252	1107.839213
TNS1	11371.83745	2937.585928	3512.417004
REXO1	496.3897298	536.8977671	935.6074399
SAR1A	1100.642416	1553.43527	1387.854742
CDC14A	588.8436927	424.0413586	908.9392943
RAPGEF3	79.24625397	24.06496947	108.8949277
CEACAM1	591.0449776	26.55444907	91.11616398
SENP1	406.1370516	626.5190327	243.3468282
DUSP13	3.301927249	17.4263572	3.333518194
CIC	1501.276256	1284.571474	3360.18634
LIPE	25.31477557	45.64045934	37.77987287
FDFT1	4.402569665	7.4684388	3.333518194
PAFAH1B	119.9700234	596.6452775	258.9032464
OPHN1	742.933631	184.2214904	632.2572842
AFM	9.905781747	3.319306133	0

KIF22	392.9293426	1253.867892	377.7987287
SCGN	6.603854498	24.894796	36.66870014
CARMIL1	921.2377024	1735.997108	1143.396741
PGM1	824.3811698	1115.286861	894.4940488
DDX1	1742.316945	2728.469642	1131.173841
DNM2	2608.522527	1772.509475	3043.502111
EPB41L2	1999.86727	599.1347571	1610.089288
RIMS1	416.0428334	120.3248473	460.0255108
MOXD1	1853.481829	43.98080627	61.11450023
STX7	606.4539714	374.2517665	318.9065739
RABL2B	182.7066411	92.94057174	107.7837549
KEAP1	577.8372686	723.6087371	1272.292777
DDX43	25.31477557	16.59653067	4.444690926
PTPRH	9.905781747	83.81247987	45.55808199
DCT	8.80513933	8.298265334	35.55752741
SLC35C2	479.8800935	325.2920011	627.8125933
CRYBG3	2533.678842	8864.207029	1972.331598
EPHA6	1422.030002	461.3835526	303.3501557
SCTR	2.201284833	3.319306133	3.333518194
RFX3	1272.342633	1111.967555	2255.680645
RIF1	2363.079268	4315.9278	1287.849196
RAB21	735.2291341	432.3396239	238.9021373
SLC4A4	6584.042934	279.6515417	1904.550062
SMARCA2	3712.46687	1766.70069	4021.334115
RDH8	1.100642416	2.4894796	10.00055458
SESN1	487.5845904	281.3111948	1513.41726
MID2	529.4090022	183.3916639	631.1461115
DNAAF6	6.603854498	4.149132667	0
COL5A3	90.25267814	292.0989397	443.3579198
SRCAP	221.2291257	229.8619497	207.7893008
PUM3	1830.368338	1535.179087	651.1472206
CPB2	3.301927249	3.319306133	6.667036389
CHRNA3	27.51606041	38.17202053	7.77820912
KCNN2	82.54818122	4.9789592	140.0077642
CNOT4	2124.239863	669.6700124	558.9198839
PSEN1	1097.340489	1267.145116	1060.058786
CPOX	103.4603871	210.7759395	90.00499125
CLDND1	191.5117804	580.0487468	448.9137835
MOK	479.8800935	220.7338579	184.4546734
HSP90AA1	10858.93808	27210.01203	12458.46866
RBL1	315.8843735	1145.160616	185.5658462
DLGAP4	1590.428292	896.212656	1001.166631
IGSF9B	397.3319123	57.2580308	220.0122008
CFHR2	1.100642416	0	0

NDC80	35.22055732	656.3927879	25.55697282
AP4E1	184.9079259	293.7585928	263.3479374
RSBN1	823.2805274	855.5511559	935.6074399
MAGI3	2319.053571	941.0232888	740.0410391
CXCL2	25.31477557	14.10705107	20.00110917
AFP	3.301927249	5.808785734	35.55752741
COL4A4	335.695937	288.7796336	215.5675099
TCF7	168.3982897	172.6039189	6.667036389
OSTM1	209.1220591	169.2846128	273.3484919
CDH7	26.41541799	195.8390619	23.33462736
IMPG2	44.02569665	14.9368776	113.3396186
PCNP	488.6852328	1052.220044	202.2334371
EXD2	248.7451861	291.2691132	468.9148927
ARG2	580.0385534	284.6305009	1165.620195
MEF2C	560.2269899	410.764134	244.4580009
PTPRC	822.179885	250.6076131	151.1194915
CACNA1S	16.50963624	21.57548987	44.44690926
PKP1	405.0364092	40.66150013	80.00443666
UBA5	628.4668197	663.0314002	606.7003114
STK17B	632.8693894	425.7010116	191.1217098
CDC14B	280.6638162	178.4127047	450.0249562
ZNF510	608.6552562	584.1978795	394.4663197
LRP2	154.0899383	3641.278828	622.2567296
ZNF506	723.1220675	649.7541756	252.23621
JMJD4	170.5995745	104.5581432	255.5697282
DUSP12	272.9593192	463.8730322	205.5669553
AACS	242.1413316	711.9911656	352.2417559
DELE1	406.1370516	242.3093477	394.4663197
SLC13A1	8.80513933	1.659653067	12.22290005
CADPS2	1229.417579	1076.285014	916.7175034
PCDHA6	0	0	6.667036389
PCDHGA2	97.95717505	77.1738676	446.691438
IFT25	414.9421909	700.3735942	283.3490465
PHLPP1	335.695937	407.4448279	295.5719466
ATP8B1	1332.877966	861.3599416	764.4868392
IL12RB2	52.83083598	19.9158368	56.6698093
SMARCD3	213.5246288	39.8316736	85.56030032
WDR70	706.6124313	672.9893186	732.26283
FYB1	1186.492525	174.263572	163.3423915
MPP4	34.11991491	10.78774493	22.22345463
STRADB	235.5374771	113.6862351	355.5752741
BZW1	964.1627567	1461.324525	1082.28224
PGR	345.6017187	7.4684388	75.55974574
C1QTNF3	17.61027866	43.98080627	32.22400921

ME2	674.6938012	892.0635234	371.1316923
C5orf22	370.9164943	770.9088495	247.7915191
CCNT2	1315.267687	927.7460643	492.24952
FAM135A	911.3319207	594.1557979	597.8109295
COL19A1	41.82441182	24.06496947	26.66814555
EPB41L3	848.595303	150.1986025	223.345719
COBLL1	5157.610363	1456.345566	3094.616057
DLG3	639.4732439	877.1266458	455.5808199
KCNK2	56.13276323	104.5581432	173.3429461
SERTAD4	2.201284833	0.829826533	1.111172731
TRAF5	554.7237778	238.1602151	255.5697282
MRPL22	145.284799	252.2672661	78.89326393
GEMIN5	778.1541883	703.6929003	572.2539567
OPRK1	166.1970049	870.4880335	2051.224862
NFE2L1	2633.837302	2789.876805	5265.847574
SEMA5B	29.71734524	85.47213294	148.897146
GSK3B	1624.548206	2697.76606	1802.32217
ITGB5	1175.486101	634.817298	1393.410605
ERC1	1528.792316	1448.877127	1000.055458
XPO1	4650.214209	6377.216909	3276.848385
RNF13	1146.869398	756.8017984	734.4851755
TRPM3	48.42826632	34.02288787	6967.053026
PALB2	694.5053647	1272.953902	498.9165564
DOP1A	1178.788028	809.08087	690.0382662
LYRM2	95.75589022	108.7072759	73.33740027
BCKDHB	514.0000084	619.0505939	762.2644938
KAT6A	6274.762415	9667.479114	3464.636577
TUT7	7665.97443	1848.02369	3681.315259
ULK2	483.1820208	983.344442	904.4946034
GRHL2	2880.381203	434.8291035	3653.535941
TNPO1	1755.524654	1819.809588	1494.527324
PLOD1	666.9893043	2143.441936	2207.900217
P2RX5	8.80513933	3.319306133	8.889381852
ITGAE	135.3790172	179.2425312	180.0099825
DIS3	1403.319081	1175.864198	754.4862846
PIBF1	297.1734524	270.5234499	167.7870824
TDRD3	463.3704573	399.9763891	261.1255919
NUFIP1	121.0706658	126.1336331	81.11560939
PDS5B	2106.629585	2024.776741	1301.183269
OXCT1	997.1820292	1014.048024	604.4779659
RRAGB	390.7280578	687.9261962	277.7931829
EPYC	0	3.319306133	4.444690926
CYLD	819.9786001	900.3617887	825.6013395
SLC27A5	27.51606041	36.51236747	92.22733671

ZNF324	146.3854414	233.1812559	418.9121198
ZNF671	90.25267814	29.04392867	62.22567296
ZNF416	112.2655265	230.6917763	218.9010281
ZNF586	450.1627483	385.869338	411.1339106
ZNF446	90.25267814	65.55629614	228.9015827
ZNF264	536.0128567	835.6353191	701.1499935
RPS5	1227.216294	1221.504657	1996.777398
FAT1	13091.0409	18681.88475	5460.302802
YTHDC1	193.7130653	102.8984901	182.232328
CHMP2B	346.7023611	482.9590424	191.1217098
SMAP2	778.1541883	629.0085123	751.1527665
PPIE	336.7965794	572.580308	520.0288383
ZMPSTE24	1352.68953	1015.707677	1825.656798
STARD7	680.1970133	1327.722453	676.7041934
NOA1	679.0963709	610.7523286	556.6975385
REST	1373.601736	482.9590424	756.7086301
HAL	26.41541799	88.79143907	84.44912759
SSH1	1021.396162	702.8630738	904.4946034
GSTP1	242.1413316	38.17202053	243.3468282
APLP2	4974.903722	4313.43832	8529.361887
FAM234B	285.0663858	232.3514293	502.2500746
SLCO1A2	77.04496914	14.10705107	15.55641824
WBP11	1562.912231	2773.280275	1190.065995
EIF3I	992.7794595	1009.898891	1328.962587
NKAIN1	15.40899383	11.61757147	14.44524551
COL16A1	1065.421859	115.3458881	295.5719466
TXLNA	474.3768814	831.4861864	432.2461925
NCOA1	3424.098557	2145.101589	3436.857258
AGBL5	532.7109295	677.9682778	867.8259033
EFR3B	73.74304189	1292.039912	144.4524551
KIF3C	122.1713082	372.5921135	463.359029
RAB10	1316.36833	1442.238515	744.4857301
GCKR	16.50963624	5.808785734	22.22345463
HADHA	2726.291265	3486.931093	3363.519858
MAPRE3	161.7944352	147.7091229	228.9015827
CAD	970.7666112	1745.955026	2605.700055
CD59	116.6680961	84.6423064	16.66759097
CD82	281.7644586	282.1410213	402.2445288
BCORL1	1070.925071	1384.150658	1765.65347
ATRX	10789.59761	8923.95454	4879.159464
FCN1	85.85010847	26.55444907	14.44524551
MYNN	331.2933673	417.4027463	346.6858922
MECOM	425.9486151	1067.156922	824.4901667
SCAMP1	554.7237778	993.3023604	376.687556

PREP	483.1820208	497.89592	461.1366835
HACE1	290.5695979	658.052441	355.5752741
SEH1L	621.8629652	1901.132588	545.5858111
WDR47	484.2826632	726.0982167	536.6964293
WDFY1	62.73661773	107.0476228	1.111172731
OVGP1	77.04496914	42.3211532	128.8960368
SLC25A24	15.40899383	39.00184707	13.33407278
MAP3K4	1818.261272	1384.980484	1925.662344
PILRA	51.73019357	33.19306133	77.7820912
IGSF9	202.5182046	333.5902664	296.6831193
ABCB1	773.7516187	39.00184707	150.0083187
ZNF213	90.25267814	126.9634596	164.4535643
AKR1B1	59.43469048	27.3842756	123.3401732
CPNE3	2128.642433	2715.192417	2657.925174
RRN3	19.81156349	11.61757147	22.22345463
CTTN	112.2655265	62.23699	192.2328825
WNT11	72.64239948	379.2307257	261.1255919
MTIF2	953.1563325	1605.714342	618.9232114
DDHD2	1216.20987	2184.103436	1015.611877
TTC39A	576.7366261	224.8829905	500.0277291
EPS15	2947.520391	1128.564085	2597.921846
ORC1	30.81798766	262.2251845	40.00221833
MGST2	510.6980812	453.0852872	417.800947
CHERP	803.4689639	832.316013	1300.072096
USP40	1066.522501	61.40716347	1538.974233
POMGNT1	919.0364176	628.1786858	2424.5789
RAD54L	19.81156349	216.5847252	6.667036389
MAST2	2004.26984	1306.97679	4324.684271
DNAJA1	1953.640289	3150.021521	1323.406723
B4GALT1	943.2505508	875.4669927	423.3568107
CHMP5	500.7922994	997.4514931	697.8164753
NFX1	2168.26556	1325.232974	1184.510132
AQP6	0	0	1.111172731
DIMT1	552.522493	382.5500319	242.2356555
IPO11	558.0257051	1078.774493	544.4746384
FOLH1	1873.293393	24.06496947	465.5813745
EIF2AK1	2728.49255	1848.02369	1456.747451
NME8	16.50963624	4.9789592	1.111172731
EPDR1	40.7237694	6.638612267	18.88993643
SNX10	77.04496914	178.4127047	54.44746384
SEPHS1	464.4710997	1244.7398	524.4735292
MRPL28	144.1841565	306.2059908	371.1316923
HBQ1	0	0.829826533	0
ITPKC	245.4432588	160.9863475	666.7036389

CEACAM6	47.3276239	1689.526822	0
FAT2	913.5332055	28.21410213	45.55808199
RBM22	331.2933673	325.2920011	251.1250373
TMED2	2293.738796	2899.413908	1297.84975
ERO1B	1185.391882	663.0314002	484.4713109
ZFAND6	555.8244202	558.473257	377.7987287
HSD17B2	8.80513933	1.659653067	23.33462736
TXLNG	217.9271984	258.0760519	103.339064
PPEF1	15.40899383	29.04392867	26.66814555
LAT2	26.41541799	28.21410213	23.33462736
HUWE1	17483.70478	22163.00705	22255.67864
ZW10	287.2676707	464.7028587	210.0116462
ALG9	26.41541799	45.64045934	25.55697282
MYBPC2	5.503212081	9.128091867	47.78042745
NOX4	184.9079259	91.28091867	24.44580009
ACOX3	368.7152095	100.4090105	1014.500704
MTMR2	1251.430427	2230.573722	773.3762211
PPP1R15A	551.4218506	350.1867971	415.5786016
HSD17B14	85.85010847	89.6212656	206.678128
TRIP6	141.9828717	25.72462253	190.0105371
ACHE	45.12633907	7.4684388	330.0183012
FTL	2419.212031	2324.34412	2853.491574
SRRT	1623.447564	1921.878251	1817.878589
BAX	152.9892959	363.4640216	402.2445288
NLK	692.3040799	899.5319622	703.372339
PIGS	493.0878025	747.6737066	1495.638497
ADAMTS2	518.4025781	453.9151138	512.2506292
TMPRSS11	9.905781747	4.149132667	5.555863657
ATXN7L3	300.4753796	365.9535012	457.8031654
PGS1	221.2291257	516.1521038	501.1389019
PSMC5	585.5417655	1001.600626	613.3673478
UIMC1	839.7901636	1166.736106	434.468538
CETP	11.00642416	11.61757147	13.33407278
MMP2	2693.271993	377.5710727	728.9293118
MT3	0	21.57548987	5.555863657
LPCAT2	337.8972218	150.1986025	236.6797918
GNAO1	162.8950776	875.4669927	21.1122819
OGFOD1	475.4775238	379.2307257	333.3518194
SH3BP2	529.4090022	354.3359297	508.917111
NOP14	886.0171451	644.7752164	793.3773302
ADD1	1998.766628	1106.158769	3247.957894
L2HGDH	188.2098532	632.3278184	312.2395375
TXNDC16	548.1199233	1137.692177	293.3496011
RTRAF	872.8094361	1770.849822	535.5852566

NID2	726.4239948	273.0129295	1115.617422
GMCL1	409.4389789	598.3049306	240.01331
SF3B2	2054.899391	2986.545694	2400.1331
KLHL42	294.9721676	720.289431	276.6820101
GNAS	6534.514026	8085.829741	9126.061643
DNM1L	1328.475396	3979.848054	1596.755215
PTHLH	25.31477557	41.49132667	40.00221833
PHACTR3	2.201284833	793.3141659	38.8910456
ERGIC2	1229.417579	1933.495823	526.6958747
TFAP2C	350.0042884	182.5618373	207.7893008
AURKA	67.13918739	886.2547376	33.33518194
CASS4	57.23340565	23.23514293	31.11283648
PIR	86.95075089	227.3724701	616.7008659
AAMDC	117.7687385	185.0513169	103.339064
RFX2	94.6552478	133.6020719	80.00443666
METTL2A	304.8779493	428.1904912	254.4585555
SULT2B1	176.1027866	200.8180211	138.8965914
ALG6	316.9850159	540.2170732	480.02662
CNOT3	342.2997915	227.3724701	152.2306642
PTPN4	516.2012932	541.0468998	450.0249562
DDX18	369.8158519	417.4027463	208.9004735
KHSRP	1236.021434	1957.560792	1401.188814
GNA11	717.6188554	892.8933499	1006.722495
ASAP3	1.100642416	0	0
EDEM2	283.9657434	377.5710727	573.3651294
DNMT3B	116.6680961	509.5134915	132.229555
REM1	26.41541799	2.4894796	0
TPX2	158.4925079	3007.291357	44.44690926
FER1L4	12.10706658	20.74566333	23.33462736
PDRG1	79.24625397	112.8564085	198.8999189
EPB41L1	816.6766729	669.6700124	963.3867582
SLC15A1	47.3276239	2.4894796	40.00221833
DOCK9	1650.963624	1767.530516	2597.921846
ANKRD10	1470.458268	902.8512683	1137.840877
TGDS	158.4925079	103.7283167	97.78320037
DOCK3	170.5995745	966.7479114	240.01331
C3orf18	23.11349074	5.808785734	11.11172731
COQ9	234.4368347	208.2864599	103.339064
TMEM40	17.61027866	4.149132667	26.66814555
KIF9	205.8201318	185.8811435	202.2334371
ARHGAP2	1081.931495	125.3038065	103.339064
CRLS1	36.32119974	29.8737552	63.33684569
DEFB127	2.201284833	0	0
PPP1R13B	2207.888687	1143.500963	1130.062668

ATRN	2534.779485	2868.710326	2695.705046
SMOX	289.4689555	62.23699	92.22733671
SIGLEC1	220.1284833	142.7301637	596.6997568
FKBP1A	946.552478	1141.84131	1621.201015
NSFL1C	716.518213	831.4861864	825.6013395
SLC4A11	237.7387619	532.7486344	214.4563372
DNAAF9	1026.899374	447.2765015	1010.056013
ZNF343	385.2248457	346.8674909	230.0127554
EBF4	493.0878025	107.0476228	554.475193
CPXM1	37.42184215	44.8106328	206.678128
MAVS	1003.785884	789.9948598	886.7158397
LZTS3	193.7130653	273.842756	240.01331
F11	2.201284833	3.319306133	10.00055458
XRN2	2015.276264	3819.691533	1544.530097
KIZ	685.7002254	340.2288787	380.0210742
DYNLL1	330.1927249	836.4651456	473.3595836
TESC	79.24625397	409.9343075	131.1183823
SNX5	607.5546138	633.157645	446.691438
RPL6	4031.653171	4427.954382	3329.073503
SIRPG	42.92505424	2.4894796	4.444690926
MAPKAPK	689.0021526	507.8538384	912.2728125
P2RX7	82.54818122	27.3842756	45.55808199
ESF1	1559.610304	1159.267667	385.5769378
RBBP9	225.6316953	304.5463377	194.455228
ANAPC5	1307.563191	1797.404271	2825.712256
SLC23A2	1169.982889	477.1502567	2400.1331
SLC8B1	167.2976473	121.1546739	441.1355744
TMEM230	551.4218506	467.1923383	510.0282837
DZANK1	224.5310529	322.8025215	211.122819
KDM2B	388.526773	897.8723091	668.9259843
CFAP61	92.45396297	173.4337455	212.2339917
LHX5	8.80513933	4.9789592	1.111172731
TASP1	583.3404806	447.2765015	327.7959558
OAS1	132.07709	87.96161254	213.3451644
GCN1	2281.631729	2459.605845	5581.42063
RPLP0	3056.48399	2687.808142	2200.122008
PXN	1455.049274	481.2993894	1583.421142
SIRT4	23.11349074	14.9368776	72.22622754
RPH3A	7.704496914	2.4894796	16.66759097
KIF16B	1368.098523	1001.600626	1078.948722
TRMT6	589.9443351	1147.650096	292.2384284
CHGB	18.71092108	562.6223896	61.11450023
PEBP1	548.1199233	794.973819	1207.844759
TBX5	129.8758051	28.21410213	13.33407278

BRAP	659.2848074	539.3872467	566.698093
ERP29	821.0792426	1795.744618	756.7086301
NOS1	82.54818122	26.55444907	397.7998379
FUS	3500.042884	5882.640295	3766.87556
IGBP1	313.6830886	302.8866847	414.4674288
FXYD5	280.6638162	561.7925631	95.5608549
ZNF302	595.4475472	553.4942978	421.1344652
GRAMD1A	409.4389789	321.1428684	956.7197218
FXYD3	24.21413316	0.829826533	14.44524551
HEPH	323.5888704	38.17202053	301.1278102
CDIP1	38.52248457	47.3001124	31.11283648
CMTM1	46.22698148	40.66150013	11.11172731
KCNH4	5.503212081	14.9368776	71.11505481
GANAB	2404.90368	5582.24309	4126.895525
GMIP	215.7259136	217.4145517	401.133356
RBM41	521.7045053	588.3470122	366.6870014
BIRC5	17.61027866	344.3780113	18.88993643
LAG3	42.92505424	20.74566333	18.88993643
MLF2	562.4282747	1198.269514	916.7175034
OTUB2	5.503212081	0.829826533	2.222345463
DDX24	267.4561072	96.25987787	57.78098203
ZBTB25	366.5139246	422.3817055	468.9148927
NECAP1	350.0042884	250.6076131	107.7837549
ARHGAP4	227.8329802	73.02473494	310.0171921
ANKRD24	46.22698148	38.17202053	104.4502368
DHX32	565.730202	372.5921135	1170.064886
RCOR1	537.1134992	927.7460643	420.0232925
GPATCH2	697.8072919	668.0103594	588.9215477
LTBP4	5099.276315	530.2591548	2484.582227
BLVRB	410.5396213	397.4869095	676.7041934
SLC9A1	578.937911	422.3817055	861.1588669
SPTLC1	1617.944352	1883.706231	1218.956486
PAPOLA	4433.387653	6173.079582	3091.282539
CCNK	2347.670274	1490.368454	774.4873938
PCBP4	209.1220591	85.47213294	260.0144192
RGS1	67.13918739	68.87560227	40.00221833
YPEL3	242.1413316	242.3093477	402.2445288
MRPS33	136.4796596	258.9058784	98.8943731
NDUFB2	238.8394043	370.9324604	664.4812934
NUDC	472.1755966	1372.533086	342.2412013
MAEA	395.1306275	284.6305009	814.4896121
ICAM1	212.4239863	54.7685512	172.2317734
STRN4	838.6895212	1121.925473	1586.75466
IRAK3	435.8543969	173.4337455	108.8949277

LYZ	1434.137068	256.4163988	42.22456379
SI	58.33404806	185.8811435	246.6803464
MUL1	175.0021442	222.3935109	328.9071285
TFAP4	175.0021442	392.5079503	293.3496011
PDCD7	399.5331971	186.71097	175.5652916
SPG21	804.5696063	965.9180848	942.2744763
FETUB	2.201284833	0.829826533	2.222345463
DNAJB11	233.3361923	638.1366042	247.7915191
P3H2	1025.798732	37.342194	1197.844204
THPO	41.82441182	63.06681654	116.6731368
CHRD	79.24625397	54.7685512	115.5619641
FLT3LG	3.301927249	0	0
RAB11FIP	141.9828717	108.7072759	117.7843095
GNPTG	432.5524696	297.0778989	896.7163943
ZNF268	631.768747	875.4669927	396.6886651
GOLGA3	2500.65957	1677.90925	3376.853931
PABPC4	2688.869423	2037.224139	1284.515678
CD209	19.81156349	50.61941854	31.11283648
CERS4	1172.184173	1293.699566	1630.090397
MCOLN1	140.8822293	154.3477352	354.4641013
USP48	2787.92724	2997.333439	1565.642379
EFNB1	125.4732355	166.7951332	66.67036389
PDPR	497.4903722	778.3772883	814.4896121
AARS1	1004.886526	1763.381383	1415.63406
GLG1	3567.182071	3537.550512	3987.998933
KIF4A	56.13276323	1323.573321	56.6698093
TNRC6A	265.2548223	139.4108576	136.674246
PLEKHG2	805.6702487	1448.877127	560.0310566
DLL3	3.301927249	1375.022566	43.33573653
NAT14	17.61027866	68.87560227	76.67091847
PITPNM2	222.3297681	1579.98972	387.7992833
EXOC1	712.1156433	968.4075644	962.2755854
RBM27	86.95075089	64.7264696	30.00166375
POU4F3	1.100642416	1.659653067	7.77820912
OSBPL8	2204.58676	2555.865723	1558.975342
DTX2	596.5481896	57.2580308	178.8988098
NLRC4	23.11349074	38.17202053	42.22456379
PUS7	686.8008678	609.0926755	321.1289194
LAMB4	46.22698148	114.5160616	15.55641824
NRCAM	1051.113508	5627.053723	126.6736914
LAMB1	2496.257	2059.629456	2416.800691
SLC26A4	233.3361923	19.9158368	57.78098203
SLC26A3	9.905781747	3.319306133	12.22290005
DLD	890.4197148	872.9775131	426.6903289

WDR7	1283.349057	848.0827171	1288.960368
TXNL1	991.6788171	1120.26582	406.6892197
IL5RA	5.503212081	3.319306133	1478.970906
ABCC6	2.201284833	4.149132667	1.111172731
CMTM6	250.9464709	781.6965944	566.698093
ITGA6	1708.19703	3253.749837	2140.118681
RAPGEF4	110.0642416	225.7128171	233.3462736
MAP3K20	981.7730353	1105.328942	254.4585555
SMPX	2.201284833	0	0
FH	525.0064326	972.5566971	385.5769378
SEL1L3	705.5117888	56.42820427	1084.504586
TF	74.84368431	25.72462253	121.1178277
CDV3	608.6552562	751.8228392	373.3540378
MYO15A	52.83083598	53.10889814	276.6820101
ALKBH5	716.518213	837.2949722	974.4984855
APOH	2.201284833	1.659653067	10.00055458
NLRP1	390.7280578	157.6670413	386.6881105
PITPNM3	183.8072835	156.8372148	228.9015827
SPAG7	169.4989321	312.8446031	272.2373192
ORC6	26.41541799	287.9498071	1.111172731
ZFHX4	679.0963709	738.5456147	927.8292308
SLC17A6	2.201284833	0	2.222345463
CPA1	3.301927249	24.06496947	1.111172731
ZC3HC1	141.9828717	120.3248473	121.1178277
ESR1	541.5160688	13.27722453	1875.659571
RGS17	11.00642416	292.0989397	0
ANGPT2	71.54175706	375.9114196	34.44635467
TMEM101	100.1584599	102.0686636	222.2345463
CD200	67.13918739	33.19306133	43.33573653
CCDC80	2127.541791	162.6460005	176.6764643
CMA1	17.61027866	0.829826533	7.77820912
PSME1	3.301927249	78.83352067	18.88993643
PPP2R3C	259.7516102	331.1007868	321.1289194
HAUS4	42.92505424	69.7054288	74.44857301
JPH4	29.71734524	4.9789592	14.44524551
MYH7	8.80513933	8.298265334	50.00277291
CEBPE	0	0.829826533	16.66759097
SLC7A8	712.1156433	246.4584804	317.7954012
OSGEP	63.83726015	58.91768387	41.11339106
SLC22A17	243.241974	183.3916639	498.9165564
SCFD1	1384.60816	1563.393189	1126.72915
G2E3	539.314784	1266.31529	380.0210742
HECTD1	5422.865185	6789.640696	6492.58227
HNRNPC	5454.783815	8622.727508	4118.006143

RPGRIP1	23.11349074	17.4263572	47.78042745
SUPT16H	2062.603888	4753.246383	1421.189924
TOX4	1543.100668	1336.020719	1186.732477
GEMIN2	143.0835141	265.5444907	98.8943731
TGM1	4.402569665	0.829826533	23.33462736
TINF2	46.22698148	30.70358173	34.44635467
DAZL	0	2.4894796	18.88993643
TBL1Y	74.84368431	0	6.667036389
SEMA6A	250.9464709	441.4677158	388.910456
TRPM7	2208.98933	1390.78927	1562.30886
TYRO3	62.73661773	73.02473494	118.8954823
WDR76	163.99572	1524.391342	16.66759097
CAPN3	39.62312699	4.149132667	25.55697282
SNAP23	337.8972218	222.3935109	227.7904099
TBX15	25.31477557	126.9634596	474.4707563
PHGDH	355.5075005	341.0587052	236.6797918
COL9A3	11.00642416	9.128091867	864.4923851
EZR	1978.955065	1971.667843	3427.967876
MYL6	1575.019298	1090.392065	1733.429461
AGO1	982.8736778	946.8320746	1204.511241
TEKT2	14.30835141	40.66150013	3.333518194
CLSPN	121.0706658	5717.504815	35.55752741
RFFL	361.0107125	192.5197557	263.3479374
UNC13D	146.3854414	42.3211532	293.3496011
MFSD11	242.1413316	249.7777865	575.5874749
DPYSL2	1140.265543	2425.582957	1391.18826
TGFB2	538.2141416	163.4758271	78.89326393
GPATCH2	1557.409019	1151.799228	905.6057761
NUP50	665.8886619	671.3296655	218.9010281
CDC45	14.30835141	365.9535012	15.55641824
COMT	527.2077174	146.0494699	694.4829571
ADA2	250.9464709	80.49317374	138.8965914
ENSG0000	1.100642416	0.829826533	0
VNN3P	35.22055732	20.74566333	17.7787637
ECHDC1	565.730202	624.0295531	360.019965
LRRFIP2	1455.049274	672.9893186	597.8109295
SEC22C	257.5503254	205.7969803	308.9060193
XYLB	214.6252712	234.0110824	162.2312188
HDAC6	598.7494745	1094.541198	2179.009726
OR1I1	2.201284833	1.659653067	65.55919115
GABRP	200.3169198	9.9579184	11.11172731
CDC6	72.64239948	1747.614679	67.78153662
UPRT	223.4304105	256.4163988	205.5669553
CDC23	397.3319123	412.4237871	325.5736103

AAAS	28.61670282	5.808785734	50.00277291
CBX5	1602.535358	3534.231206	465.5813745
FMO2	71.54175706	84.6423064	70.00388208
SUCO	1391.212014	1657.163587	1362.297769
MSH2	825.4818122	5647.799386	895.6052215
MAP3K1	919.0364176	1000.770799	684.4824026
DHPS	22.01284833	20.74566333	83.33795486
HOOK2	419.3447606	323.632348	1030.057122
NXPE1	8.80513933	4.9789592	1076.726377
ARCN1	1690.586751	1536.83874	870.0482487
EPB41L4B	700.0085768	1384.150658	453.3584744
TMEM38B	122.1713082	443.1273688	134.4519005
PSMD5	509.5974387	1039.772646	584.4768567
PTGS1	125.4732355	48.95976547	78.89326393
NUP188	980.6723929	2910.201653	1957.886353
CRAT	988.3768898	341.0587052	1050.058231
SH2D3C	89.15203572	126.1336331	83.33795486
NANS	894.8222845	626.5190327	402.2445288
TBC1D2	179.4047139	146.0494699	291.1272556
WHRN	374.2184215	260.5655315	848.9359668
PDE6C	7.704496914	0.829826533	2.222345463
CWF19L1	231.1349074	286.290154	155.5641824
SEMA4G	47.3276239	25.72462253	53.33629111
BTAF1	2271.725947	1601.565209	981.1655219
IKZF5	786.9593277	614.0716347	432.2461925
BLNK	438.0556817	29.8737552	181.1211552
TLL2	31.91863007	217.4145517	253.3473828
CYP26A1	2.201284833	1.659653067	70.00388208
TDRD1	1466.055699	23.23514293	33.33518194
SORBS1	4908.865177	984.1742686	2479.026364
CRTAC1	6.603854498	307.8656439	7.77820912
BAMBI	268.5567496	259.7357049	142.2301096
IL11	7.704496914	0.829826533	2.222345463
MYO3A	20.91220591	7.4684388	16.66759097
WAC	8775.421985	8932.252805	3146.841175
CREM	232.2355498	324.4621745	258.9032464
NUBP2	119.9700234	206.6268068	408.9115652
TPSD1	29.71734524	2.4894796	7.77820912
SMIM24	1.100642416	19.08601027	6.667036389
HIVEP1	6631.370558	2316.045855	2586.810119
TREM2	27.51606041	11.61757147	64.44801842
KCNK16	7.704496914	36.51236747	8.889381852
CRISP3	1963.546071	5.808785734	450.0249562
FKBP5	2232.10282	6463.518868	2226.790154

SRPK1	1005.987168	2583.249998	838.9354122
BRPF3	955.3576173	1079.60432	1002.277804
MRPS18A	211.3233439	360.1447155	302.238983
PGC	19.81156349	9.128091867	31.11283648
TMEM14A	106.7623144	516.9819303	430.0238471
EFHC1	544.8179961	1041.432299	754.4862846
NCR2	1.100642416	2.4894796	2.222345463
HSP90AB1	6400.235651	9606.901777	8739.373533
CDC5L	899.2248541	2263.766783	766.7091847
ITPR3	1260.235567	3756.624717	3989.110106
ZNF184	528.3083598	799.9527782	293.3496011
DSP	34600.89564	72994.86118	35653.08826
SIRT1	472.1755966	806.5913904	473.3595836
HNRNPH3	2231.002178	4559.066974	1103.394522
IFT74	413.8415485	360.1447155	223.345719
JAK2	1083.032138	585.027706	820.0454758
IL12RB1	39.62312699	8.298265334	81.11560939
ABL1	1096.239847	960.1092991	1660.092061
ACOT7	53.9314784	1008.239238	332.2406467
SH3GLB1	680.1970133	1441.408688	1034.501813
CDC7	140.8822293	1366.7243	297.794292
SYDE2	541.5160688	5276.866926	248.9026918
PCSK5	487.5845904	788.3352067	432.2461925
SCD	731.9272068	864.6792478	277.7931829
TMED1	105.661672	204.9671537	377.7987287
ABLIM1	464.4710997	593.3259714	852.269485
ERMP1	644.976456	1221.504657	692.2606117
RAB18	1120.45398	731.9070024	944.4968217
NRP1	5583.558978	1628.119658	9028.278443
PRTFDC1	47.3276239	237.3303885	43.33573653
PALMD	192.6124229	53.93872467	120.006655
TSPAN15	1201.901519	599.9645836	831.1572031
MACROH2	392.9293426	1022.346289	457.8031654
WASHC2A	1084.13278	508.683665	824.4901667
MAST3	388.526773	491.2573078	1197.844204
MZF1	276.2612465	183.3916639	800.0443666
OCEL1	140.8822293	82.1528268	172.2317734
MYO9B	2029.584616	1509.454464	2651.258137
KCNK6	35.22055732	14.10705107	10.00055458
CATSPER4	191.5117804	286.290154	331.129474
PSMD8	569.0321292	965.0882583	831.1572031
FBXL19	265.2548223	244.7988273	638.9243206
STX1B	7.704496914	13.27722453	10.00055458
HSD3B7	31.91863007	34.8527144	34.44635467

SETD1A	1067.623144	1386.640137	1298.960923
BCL7C	165.0963624	225.7128171	252.23621
MAGEB2	1.100642416	0.829826533	14.44524551
EFNA2	14.30835141	27.3842756	30.00166375
CIRBP	1704.895103	899.5319622	3333.518194
ATP5F1D	155.1905807	167.6249597	322.2400921
CBARP	16.50963624	47.3001124	146.6748005
PCDH11Y	20.91220591	3.319306133	1.111172731
AMELY	3.301927249	0	0
PRKY	156.2912231	16.59653067	3.333518194
IGFALS	1.100642416	7.4684388	26.66814555
HNRNPM	2272.82659	4386.463055	2234.568363
MARCHF2	110.0642416	52.2790716	416.6897743
NDUFB7	324.6895128	458.894073	537.807602
TECR	383.0235609	614.9014612	695.5941299
TIMM13	128.7751627	300.3972051	321.1289194
CDC34	150.788011	471.341471	298.9054648
MTAP	181.6059987	415.7430932	106.6725822
MISP	130.9764475	98.74935747	47.78042745
CEP170B	1350.488245	1219.015178	2646.813446
POLR2E	358.8094277	602.4540632	780.0432575
POLRMT	292.7708827	459.7238995	854.4918305
HCN2	8.80513933	220.7338579	55.55863657
CDHR5	3.301927249	0	0
IZUMO4	34.11991491	11.61757147	51.11394565
RASSF7	19.81156349	17.4263572	22.22345463
GADD45B	90.25267814	37.342194	113.3396186
PALM	225.6316953	204.9671537	430.0238471
MADCAM	2.201284833	5.808785734	2.222345463
IGF2-AS	0	1.659653067	1.111172731
MKNK2	1272.342633	697.054288	1188.954823
ARVCF	187.1092108	141.9003372	505.5835928
TRMT2A	220.1284833	142.7301637	320.0177467
RANBP1	140.8822293	382.5500319	46.66925472
ZDHHC8	260.8522527	110.3669289	450.0249562
KLHL22	364.3126398	243.1391743	481.1377927
MED15	811.1734608	237.3303885	601.1444477
SERPIND1	0	132.7722453	216.6786826
SNAP29	425.9486151	257.2462253	243.3468282
CRKL	436.9550393	381.7202053	286.6825647
LZTR1	35.22055732	14.10705107	26.66814555
CECR2	305.9785917	941.0232888	686.704748
P2RX6	5.503212081	4.149132667	21.1122819
BCL2L13	439.1563241	240.6496947	340.0188558

OSM	1.100642416	3.319306133	6.667036389
CABIN1	1994.364058	1347.63829	1547.863615
TBC1D10A	141.9828717	94.6002248	112.2284459
SUSD2	425.9486151	777.5474618	71.11505481
SF3A1	2629.434733	1520.242209	1486.749115
GGT5	223.4304105	128.6231127	317.7954012
RNF215	69.34047223	63.89664307	94.44968217
SEC14L2	192.6124229	62.23699	24.44580009
SEC14L3	4.402569665	6.638612267	0
SPECC1L	35.22055732	54.7685512	2.222345463
PPIL2	808.972176	356.8254093	436.6908835
UPB1	16.50963624	12.447398	15.55641824
YPEL1	58.33404806	241.4795212	166.6759097
SNRPD3	105.661672	113.6862351	27.77931829
PES1	381.9229185	285.4603275	387.7992833
MAPK1	1942.633865	1797.404271	1173.398404
GGT1	2.201284833	1.659653067	0
PRODH	1.100642416	3.319306133	70.00388208
PPM1F	287.2676707	160.9863475	155.5641824
SLC35E4	16.50963624	15.76670413	45.55808199
TOP3B	383.0235609	207.4566333	536.6964293
CRYBB3	24.21413316	6.638612267	24.44580009
CYTH4	186.0085684	40.66150013	100.0055458
ESS2	180.5053563	150.1986025	151.1194915
MFNG	25.31477557	32.3632348	38.8910456
CARD10	85.85010847	142.7301637	264.4591101
SLC25A1	269.657392	427.3606647	711.1505481
GRK3	3941.400493	463.8730322	1162.286677
PLA2G3	1.100642416	47.3001124	5.555863657
LGALS2	11.00642416	2.4894796	2.222345463
GGA1	556.9250626	218.2443783	570.0316112
HIRA	39.62312699	25.72462253	40.00221833
SH3BP1	49.52890873	43.98080627	28.89049102
SEZ6L	40.7237694	87.131786	18.88993643
LGALS1	577.8372686	170.9442659	326.684783
HPS4	711.0150009	445.6168484	875.6041124
PIK3IP1	139.7815869	31.53340827	87.78264578
SRRD	279.5631737	208.2864599	181.1211552
PATZ1	694.5053647	494.5766139	680.0377116
TRIOBP	443.5588938	183.3916639	376.687556
TFIP11	431.4518272	352.6762767	403.3557015
GCAT	102.3597447	27.3842756	125.5625187
GGTLC2	0	0.829826533	0
CRYBB1	11.00642416	4.9789592	12.22290005

ANKRD54	55.03212081	50.61941854	38.8910456
EIF3L	1439.640281	747.6737066	857.8253487
SNU13	420.445403	516.9819303	675.5930207
MICALL1	236.6381195	120.3248473	208.9004735
POLR2F	202.5182046	155.1775617	150.0083187
SOX10	51.73019357	3.319306133	40.00221833
CCDC134	139.7815869	97.91953094	65.55919115
DEPDC5	238.8394043	225.7128171	240.01331
PICK1	357.7087853	145.2196433	288.9049102
TTC28	1502.376898	667.1805328	1342.29666
SLC16A8	12.10706658	1.659653067	27.77931829
CENPM	11.00642416	151.8582556	18.88993643
SEPTIN3	96.85653263	204.1373272	22.22345463
SLC5A1	177.203429	12.447398	201.1222644
SLC5A4	1.100642416	1.659653067	14.44524551
KDELR3	192.6124229	42.3211532	75.55974574
CYP2D6	2.201284833	1.659653067	5.555863657
DDX17	10711.452	4608.02674	9169.39738
DMC1	14.30835141	48.12993894	0
TCF20	15.40899383	13.27722453	0
HSCB	85.85010847	35.68254093	20.00110917
CBY1	198.1156349	137.7512045	68.89270935
TOMM22	209.1220591	333.5902664	155.5641824
RSPH14	6.603854498	13.27722453	17.7787637
XBP1	2983.841591	530.2591548	1794.543961
RTCB	1067.623144	707.0122064	697.8164753
JOSD1	136.4796596	188.3706231	182.232328
FBXO7	1070.925071	1053.879697	1063.392304
GTPBP1	728.6252796	267.2041437	523.3623565
POLDIP3	13.207709	4.149132667	1.111172731
RAB36	49.52890873	80.49317374	80.00443666
TIMP3	2061.503246	793.3141659	770.0427029
PPP6R2	1075.327641	235.6707355	965.6091036
SBF1	939.9486235	754.3123188	2043.446653
SUN2	1163.379034	689.5858492	755.5974574
CYB5R3	761.6445521	323.632348	453.3584744
DNAL4	60.5353329	53.10889814	34.44635467
C22orf31	5.503212081	0	0
MIOX	9.905781747	3.319306133	1.111172731
LMF2	458.9678876	227.3724701	626.7014205
RHBDD3	79.24625397	48.12993894	127.7848641
PACSIN2	986.175605	614.9014612	824.4901667
TTLL1	192.6124229	117.8353677	231.1239281
RASL10A	9.905781747	2.4894796	8.889381852

AP1B1	1646.561055	804.1019108	1892.327162
HMGXB4	420.445403	419.0623993	203.3446099
TOM1	446.860821	134.4318984	458.9143381
NEFH	450.1627483	12.447398	1046.724713
CHKB	7.704496914	2.4894796	4.444690926
BIK	46.22698148	22.4053164	55.55863657
HMOX1	56.13276323	52.2790716	87.78264578
MCAT	139.7815869	98.74935747	97.78320037
THOC5	511.7987236	431.5097974	437.8020562
MCM5	353.3062156	1053.049871	284.4602192
APOBEC3	9.905781747	0	6.667036389
ARSA	309.280519	102.8984901	411.1339106
TSPO	52.83083598	29.8737552	233.3462736
RASD2	123.2719506	18.25618373	5.555863657
TTLL12	514.0000084	203.3075007	552.2528475
CBX7	210.2227015	63.89664307	167.7870824
PDGFB	79.24625397	35.68254093	73.33740027
ACR	0	0.829826533	0
CABP7	4.402569665	219.9040313	10.00055458
RPL3	4923.173528	2750.874958	5446.96873
ZMAT5	77.04496914	64.7264696	86.67147305
RBFOX2	348.903646	154.3477352	202.2334371
SYNGR1	137.580302	43.15097974	243.3468282
TAB1	323.5888704	189.2004496	414.4674288
ASCC2	823.2805274	355.9955828	595.5885841
MTMR3	1200.800876	718.6297779	1575.642933
MIEF1	267.4561072	209.9461129	297.794292
APOL4	136.4796596	123.6441535	1408.967023
PNPLA5	3.301927249	3.319306133	2.222345463
APOL1	432.5524696	69.7054288	126.6736914
PNPLA3	5.503212081	7.4684388	15.55641824
MYH9	10829.22073	6988.799064	7934.884475
CACNA1I	22.01284833	29.8737552	33.33518194
SAMM50	744.0342734	530.2591548	403.3557015
TXN2	276.2612465	209.1162864	192.2328825
FOXRED2	676.895086	795.8036455	413.3562561
GRAP2	75.94432672	30.70358173	2.222345463
EIF3D	1755.524654	1005.749758	1031.168295
TNRC6B	3400.985066	1963.369578	1876.770743
SGSM3	8.80513933	5.808785734	7.77820912
IFT27	132.07709	100.4090105	96.67202764
KIAA0930	430.3511848	196.6688884	378.9099014
NCF4	12.10706658	8.298265334	18.88993643
CSF2RB	136.4796596	29.8737552	102.2278913

SLC25A17	126.5738779	170.1144393	193.3440553
UPK3A	85.85010847	0.829826533	1.111172731
FAM118A	456.7666028	97.0897044	157.7865279
KCTD17	42.92505424	105.3879697	70.00388208
ST13	1138.064258	970.897044	642.2578388
IL2RB	83.64882364	420.7220524	25.55697282
RBX1	271.8586768	381.7202053	245.5691736
EP300	7400.719607	4100.172901	4094.671515
L3MBTL2	417.1434758	224.053164	447.8026108
CHADL	31.91863007	4.149132667	35.55752741
RANGAP1	455.6659603	495.4064404	527.8070474
ZC3H7B	1700.492533	612.4119816	1164.509023
PHF5A	71.54175706	131.9424188	74.44857301
ACO2	1068.723786	854.7213294	1166.731368
POLR3H	293.8715252	180.0723577	208.9004735
TRMU	203.618847	161.816174	158.8977006
PMM1	73.74304189	98.74935747	116.6731368
DESI1	282.865101	122.8143269	238.9021373
CERK	533.8115719	414.9132667	311.1283648
BRD1	1549.704522	722.7789106	1006.722495
ZBED4	1370.299808	750.1631862	612.256175
MLC1	7.704496914	1.659653067	0
HDAC10	5.503212081	1.659653067	3.333518194
KCNK10	5.503212081	93.77039827	11.11172731
ABHD4	286.1670282	141.0705107	1087.838104
KHNYN	502.9935842	508.683665	692.2606117
FKBP3	681.2976557	2102.780436	972.27614
SDR39U1	335.695937	179.2425312	337.7965104
CTSG	55.03212081	0.829826533	6.667036389
GZMH	23.11349074	0	11.11172731
GZMB	57.23340565	5.808785734	31.11283648
RBM23	660.3854498	875.4669927	797.8220212
PRMT5	731.9272068	1112.797381	1130.062668
COCH	466.6723845	731.0771759	4521.361844
AP4S1	62.73661773	50.61941854	24.44580009
POLE2	84.74946605	653.0734818	31.11283648
VCPKMT	82.54818122	90.45109214	90.00499125
SOS2	2737.297689	2404.837294	2002.333262
CDKL1	106.7623144	46.47028587	30.00166375
NIN	2466.539655	3124.296898	1804.544516
PYGL	278.4625313	830.6563599	376.687556
TRIM9	18.71092108	2690.297621	101.1167186
PSMC6	658.1841649	1060.51831	555.5863657
GNPNAT1	350.0042884	452.2554607	167.7870824

DDHD1	685.7002254	1063.007789	683.3712298
CDKN3	58.33404806	813.2300027	12.22290005
CNIH1	423.7473303	695.394635	425.5791561
CGRRF1	117.7687385	131.1125923	234.4574463
ATP6V1D	313.6830886	473.001124	512.2506292
CCDC198	2.201284833	2.4894796	15.55641824
PLEK2	77.04496914	162.6460005	132.229555
PIGH	125.4732355	107.0476228	346.6858922
LRRC74A	5.503212081	3.319306133	26.66814555
PSMA3	479.8800935	1131.053565	521.140011
VTI1B	849.6959454	727.7578698	692.2606117
TIMM9	173.9015018	191.6899292	88.89381852
GSTZ1	145.284799	182.5618373	88.89381852
KIAA0586	956.4582598	1126.074606	730.0404846
TMED8	220.1284833	378.4008992	195.5664007
SAMD15	183.8072835	170.1144393	130.0072096
AHSA1	1132.561046	1989.0942	761.153321
DAAM1	1293.254839	1497.007066	867.8259033
ISM2	39.62312699	23.23514293	24.44580009
SPTLC2	1036.805156	1370.873433	1100.061004
RIN3	487.5845904	243.9690008	195.5664007
LGMN	1579.421867	1048.900738	3420.189667
ALKBH1	175.0021442	224.8829905	151.1194915
SNW1	1371.400451	1918.558945	833.3795486
CHGA	1.100642416	82.1528268	8.889381852
ITPK1	125.4732355	24.06496947	38.8910456
DHRS7	3544.06858	1155.118534	3527.973422
PPM1A	958.6595446	1287.060953	1021.16774
SIX4	850.7965878	512.0029711	807.8225758
GALNT16	115.5674537	390.8482972	488.9160018
ASB2	24.21413316	0	0
CEP128	924.5396297	994.9620135	413.3562561
ERH	395.1306275	1476.261403	518.9176656
HIF1A	3764.197064	4794.73771	1832.323834
SUSD6	293.8715252	575.0697876	563.3645748
SRSF5	2463.237728	2212.317538	2407.911309
SLC10A1	1.100642416	1.659653067	22.22345463
EIF5	1260.235567	1510.284291	850.0471396
SERPINA4	1.100642416	1.659653067	1.111172731
SLC8A3	37.42184215	439.8080627	22.22345463
DICER1	7005.58898	5107.582313	5491.415639
ZFYVE21	186.0085684	146.8792964	210.0116462
MTHFD1	899.2248541	2861.241887	714.4840663
TCL1A	3.301927249	0	0

ZC3H14	2481.948649	2382.431977	1414.522887
TELO2	144.1841565	195.0092353	916.7175034
PCNX1	3259.002195	2321.85464	4028.001151
BDKRB1	7.704496914	48.12993894	3.333518194
GSKIP	48.42826632	131.9424188	137.7854187
VRK1	210.2227015	1153.458881	77.7820912
PSMC1	511.7987236	765.1000638	477.8042745
PAPLN	166.1970049	146.8792964	558.9198839
RPS6KA5	730.8265644	1278.762688	1101.172177
PPP4R3A	2802.235592	3734.2194	1630.090397
C14orf93	100.1584599	220.7338579	154.4530097
PSMB5	325.7901552	768.4193699	1141.174395
YY1	730.8265644	1370.873433	792.2661575
ACIN1	3721.27201	2631.379937	3329.073503
CCNB1IP1	2.201284833	25.72462253	3.333518194
TRIP11	5852.115727	2491.96908	1755.652916
APEX1	69.34047223	111.1967555	15.55641824
PABPN1	40.7237694	73.02473494	5.555863657
EFS	238.8394043	17.4263572	55.55863657
ARHGAP5	5319.404798	8266.731925	5286.959856
CINP	427.0492575	337.7393991	402.2445288
DHRS2	3.301927249	24.06496947	17.7787637
SRP54	1303.160621	1832.256986	857.8253487
CHD8	8248.214268	7416.159729	5955.885841
PCK2	20.91220591	16.59653067	7.77820912
PRORP	14.30835141	24.06496947	11.11172731
DCAF11	117.7687385	126.9634596	28.89049102
PSMA6	79.24625397	188.3706231	105.5614095
NFKBIA	1020.29552	521.9608895	877.8264578
EMC9	4.402569665	1.659653067	34.44635467
PSME2	52.83083598	86.30195947	37.77987287
BRMS1L	223.4304105	623.1997266	166.6759097
REC8	6.603854498	0	4.444690926
TM9SF1	0	0.829826533	1.111172731
SEC23A	1261.336209	925.2565847	1207.844759
GMPR2	14.30835141	14.10705107	4.444690926
PNN	1254.732355	1812.341149	741.1522119
RABGGTA	2.201284833	12.447398	10.00055458
NFATC4	9.905781747	24.06496947	1.111172731
PLTP	441.3576089	106.2177963	1577.865279
PCIF1	433.653112	459.7238995	825.6013395
GSS	450.1627483	492.9169608	795.5996757
MMP9	46.22698148	599.9645836	26.66814555
VSX1	4.402569665	0	14.44524551

TRPC4AP	1240.424003	950.9812072	1770.098161
PYGB	3024.56536	1688.696995	3142.396485
ABHD12	1461.653129	1823.95872	1600.088733
PROCR	50.62955115	23.23514293	13.33407278
GINS1	71.54175706	507.8538384	10.00055458
NINL	611.9571835	616.5611143	1146.730259
CD40	147.4860838	39.00184707	6.667036389
UQCC1	390.7280578	399.1465625	340.0188558
ZMYND8	2061.503246	2774.939928	1785.654579
SGK2	51.73019357	33.19306133	200.0110917
IFT52	226.7323378	364.2938481	408.9115652
MYBL2	72.64239948	1437.259556	28.89049102
R3HDML	0	2.4894796	0
HNF4A	1.100642416	2.4894796	7.77820912
NDRG3	1033.503229	871.31786	1677.870824
SLA2	19.81156349	4.9789592	6.667036389
RAB5IF	17.61027866	30.70358173	18.88993643
NFATC2	505.1948691	419.0623993	390.0216287
RIMS4	20.91220591	81.32300027	164.4535643
PABPC1L	505.1948691	422.3817055	792.2661575
STK4	983.9743202	1219.845004	382.2434196
SALL4	355.5075005	27.3842756	82.22678213
ADNP	5920.355557	8532.276416	4491.36018
PFDN4	141.9828717	325.2920011	28.89049102
DOK5	16.50963624	36.51236747	5.555863657
CSTF1	661.4860922	590.0066652	355.5752741
BMP7	51.73019357	1089.562238	128.8960368
RAE1	271.8586768	512.0029711	247.7915191
TPD52L2	302.6766645	228.2022967	411.1339106
DNAJC5	364.3126398	296.2480724	235.5686191
NELFCD	782.556758	857.210809	723.3734482
CTSZ	1700.492533	1653.014454	1492.304978
PRPF6	1627.850134	1362.575168	2399.021927
TUBB1	5.503212081	56.42820427	3.333518194
PRELID3B	377.5203488	667.1805328	231.1239281
HRH3	1.100642416	38.17202053	1.111172731
MTG2	255.3490406	292.9287663	456.6919926
PSMA7	758.3426248	1863.790394	1965.664562
SLCO4A1	13.207709	279.6515417	113.3396186
NTSR1	4.402569665	19.9158368	2.222345463
MRGBP	82.54818122	190.0302761	72.22622754
TCFL5	228.9336226	297.9077255	488.9160018
DIDO1	3112.616753	2101.120782	3526.86225
GID8	363.2119974	718.6297779	401.133356

SLC17A9	13.207709	9.128091867	68.89270935
BIRC7	0	3.319306133	0
NKAIN4	1.100642416	0.829826533	2.222345463
ARFGAP1	708.8137161	385.0395115	1000.055458
AVP	2.201284833	1.659653067	2.222345463
COL20A1	6.603854498	9.128091867	62.22567296
CHRNA4	7.704496914	170.1144393	87.78264578
EEF1A2	40.7237694	926.0864112	772.2650483
PTK6	23.11349074	9.9579184	25.55697282
GMEB2	181.6059987	151.8582556	300.0166375
ADISSP	46.22698148	118.6651943	157.7865279
SPEF1	12.10706658	22.4053164	12.22290005
CDC25B	141.9828717	1024.005942	358.9087923
ISM1	83.64882364	99.579184	164.4535643
RNF24	140.8822293	193.3495823	123.3401732
ARFRP1	214.6252712	184.2214904	250.0138646
NDUFAF5	59.43469048	99.579184	44.44690926
SEL1L2	1.100642416	0.829826533	0
TRIB3	77.04496914	53.93872467	42.22456379
RASSF2	461.1691724	117.8353677	766.7091847
CSNK2A1	1933.828725	2436.370702	1683.426688
SLC52A3	89.15203572	23.23514293	121.1178277
RPS10P5	2.201284833	3.319306133	1.111172731
ANGPT4	5.503212081	3.319306133	16.66759097
RSPO4	4.402569665	26.55444907	33.33518194
CDS2	844.1927333	931.895197	912.2728125
PROKR2	2.201284833	5.808785734	17.7787637
HM13	1533.194886	824.8475742	776.7097393
SNPH	48.42826632	22.4053164	91.11616398
MYLK2	3.301927249	15.76670413	38.8910456
SIRPB1	7.704496914	10.78774493	7.77820912
SEC23B	1759.927224	2033.075007	1664.536752
FERMT1	291.6702403	107.8774493	44.44690926
HAO1	6.603854498	3.319306133	0
PDYN	2.201284833	4.149132667	14.44524551
CCM2L	23.11349074	48.95976547	46.66925472
PLCB4	591.0449776	1123.585126	1536.751888
MYL9	5475.696021	207.4566333	320.0177467
HCK	121.0706658	73.02473494	116.6731368
TM9SF4	1210.706658	786.6755536	1292.293887
TLDC2	11.00642416	24.06496947	7.77820912
CRNKL1	1415.426147	1291.210086	1214.511795
POFUT1	315.8843735	393.3377768	616.7008659
SAMHD1	2199.083548	1060.51831	721.1511027

PAK5	19.81156349	177.5828781	40.00221833
KIF3B	1037.905799	918.6179724	913.3839852
NOP56	662.5867346	1456.345566	601.1444477
MANBAL	3.301927249	13.27722453	4.444690926
IDH3B	704.4111464	658.052441	604.4779659
MAPRE1	713.2162858	1672.930291	561.1422294
JAG1	3046.578208	1757.572598	21300.07009
CDK5RAP	461.1691724	482.1292159	382.2434196
SNTA1	184.9079259	142.7301637	242.2356555
OXT	1.100642416	2.4894796	0
TTI1	1055.516077	1320.254015	1018.945395
E2F1	25.31477557	657.2226144	58.89215477
RPRD1B	824.3811698	618.2207674	444.4690926
PXMP4	263.0535375	259.7357049	107.7837549
CHMP4B	1337.280536	1230.632749	762.2644938
BPI	13.207709	2.4894796	46.66925472
CST9L	0	1.659653067	0
SLC32A1	2.201284833	1.659653067	4.444690926
CST3	2378.488262	1828.107853	4943.607482
ASIP	1.100642416	1.659653067	0
CST4	5.503212081	4.149132667	12.22290005
ACTR5	260.8522527	283.8006744	230.0127554
WFDC2	47.3276239	10.78774493	7.77820912
AHCY	547.0192809	989.9830543	790.0438121
PPP1R16B	100.1584599	163.4758271	23.33462736
SPINT3	1.100642416	0	1.111172731
FAM83D	520.6038629	1155.118534	14.44524551
EPPIN	1.100642416	2.4894796	6.667036389
DHX35	542.6167112	505.3643588	257.7920737
DNTTIP1	179.4047139	184.2214904	112.2284459
MAP1LC3	79.24625397	165.9653067	241.1244827
SYNDIG1	11.00642416	9.9579184	77.7820912
PIGU	474.3768814	581.7083999	505.5835928
TNNC2	0	22.4053164	22.22345463
ACOT8	130.9764475	103.7283167	340.0188558
APMAP	1568.415443	3220.556776	2767.931274
CELF4	8.80513933	129.4529392	34.44635467
ZNF516	447.9614634	80.49317374	227.7904099
CDH20	11.00642416	4.9789592	5.555863657
ADNP2	676.895086	843.1037579	788.9326393
RBFA	140.8822293	185.0513169	77.7820912
USP14	783.6574004	1479.580709	855.6030032
VAPA	1118.252695	2041.373272	1240.068768
METTL4	173.9015018	447.2765015	288.9049102

LPIN2	948.7537628	1589.947638	1285.62685
SMCHD1	5712.334141	7436.075565	2896.827311
MYOM1	369.8158519	246.4584804	180.0099825
MYL12A	718.7194978	918.6179724	448.9137835
CEP76	152.9892959	321.9726949	97.78320037
ST8SIA5	27.51606041	71.36508187	15.55641824
CEP192	2628.33409	4197.262606	1836.768525
RNMT	362.111355	486.2783486	330.0183012
SMAD7	203.618847	61.40716347	131.1183823
LIPG	23.11349074	41.49132667	46.66925472
LAMA1	112.2655265	860.5301151	81.11560939
RNF125	150.788011	34.8527144	17.7787637
ANKRD12	3272.209904	3099.402102	1477.859733
NOL4	27.51606041	710.3315126	137.7854187
POLI	319.1863007	405.7851748	268.903801
MIB1	979.5717505	1405.726148	918.9398489
RBBP8	324.6895128	1917.729119	126.6736914
RIOK3	462.2698148	370.9324604	328.9071285
CSTF2	235.5374771	436.4887566	352.2417559
H2BW2	0	1.659653067	0
MXRA5	6556.526874	826.5072272	270.0149737
VSIG1	16.50963624	6.638612267	34.44635467
PSMD10	100.1584599	243.9690008	201.1222644
ATG4A	162.8950776	187.5407965	110.0061004
STS	276.2612465	165.1354801	151.1194915
TBL1X	960.8608294	531.0889814	547.8081566
GPR143	38.52248457	58.08785734	33.33518194
PGRMC1	468.8736693	332.7604399	418.9121198
POLA1	790.2612549	3005.631704	493.3606928
MID1	410.5396213	551.8346447	413.3562561
NKAP	270.7580344	256.4163988	405.578047
RHOXF1	11.00642416	11.61757147	14.44524551
NXT2	78.14561156	167.6249597	287.7937374
GUCY2F	4.402569665	4.9789592	15.55641824
ATP1B4	8.80513933	1.659653067	0
ALG13	3901.777366	2292.810712	3190.176912
PRPS2	234.4368347	1123.585126	802.2667121
TLR8	194.8137077	91.28091867	76.67091847
MOSPD1	77.04496914	102.0686636	72.22622754
AMMECR	246.5439013	93.77039827	90.00499125
CHRDL1	545.9186385	23.23514293	22.22345463
WDR13	797.9657518	488.7678282	1347.852523
SUV39H1	46.22698148	139.4108576	42.22456379
PAGE4	162.8950776	0	0

SRPX	102.3597447	36.51236747	43.33573653
GLRA2	1.100642416	1.659653067	0
XIAP	857.4004423	1130.223738	822.2678213
STAG2	2691.070708	4986.427639	2354.575018
ATP11C	572.3340565	790.8246863	482.2489654
MCF2	22.01284833	8.298265334	23.33462736
F9	2.201284833	4.149132667	0
ABCD1	139.7815869	81.32300027	290.0160829
CCDC22	114.4668113	105.3879697	224.4568918
CACNA1F	14.30835141	3.319306133	76.67091847
SYP	22.01284833	272.1831029	20.00110917
PLP2	574.5353413	1855.492129	120.006655
BMX	5.503212081	3.319306133	22.22345463
LUZP4	0	0.829826533	0
PLS3	778.1541883	296.2480724	152.2306642
NAA10	55.03212081	119.4950208	154.4530097
RENBP	68.23982981	36.51236747	73.33740027
ELF4	165.0963624	453.9151138	224.4568918
SMARCA1	3715.768797	769.2491964	1883.43778
MTMR8	56.13276323	5.808785734	97.78320037
ASB9	5.503212081	8.298265334	17.7787637
ZC3H12B	83.64882364	9.128091867	86.67147305
RBBP7	2260.719523	6608.738512	2181.232072
KCND1	0	0.829826533	0
SLC25A14	144.1841565	369.2728073	122.2290005
FMR1	1019.194877	2031.415354	558.9198839
SCML2	107.8629568	814.0598292	86.67147305
RS1	1.100642416	2.4894796	14.44524551
PCSK1N	51.73019357	171.7740924	1234.512905
EMD	464.4710997	1197.439688	1201.177723
TAFAZZIN	50.62955115	60.57733694	125.5625187
RAB40AL	40.7237694	11.61757147	37.77987287
PGK1	620.7623228	3475.313522	1103.394522
GATA1	6.603854498	0	10.00055458
MAGT1	669.1905891	992.4725339	1041.168849
SMS	4470.809495	1252.208239	640.0354933
PHEX	52.83083598	59.7475104	33.33518194
UBL4A	141.9828717	170.9442659	286.6825647
CD99L2	254.2483982	223.2233375	207.7893008
EEA1	3132.428317	1645.546016	1007.833667
GPR50	0	3.319306133	11.11172731
RP2	245.4432588	414.9132667	150.0083187
JADE3	220.1284833	782.526421	212.2339917
CDK16	840.8908061	1202.418647	1058.947613

USP11	789.1606125	2320.194987	3182.398703
PCYT1B	22.01284833	119.4950208	22.22345463
BRS3	0	0.829826533	4.444690926
HTATSF1	846.3940181	1998.222292	848.9359668
VGLL1	22.01284833	0.829826533	11.11172731
CD40LG	47.3276239	5.808785734	0
TIMP1	2636.038587	576.7294407	3689.093468
KLHL4	4.402569665	11.61757147	5.555863657
GABRE	329.0920825	24.06496947	50.00277291
PCDH11X	41.82441182	1116.946514	2739.040783
FGD1	166.1970049	438.1484096	341.1300286
PIN4	159.5931504	344.3780113	110.0061004
PORCN	83.64882364	34.8527144	170.0094279
ITIH6	47.3276239	4.149132667	34.44635467
MAGED2	916.8351328	1145.160616	2026.779062
RBM3	694.5053647	702.8630738	440.0244016
KLF8	165.0963624	27.3842756	110.0061004
SRPX2	195.9143501	150.1986025	111.1172731
SYTL4	401.7344819	312.8446031	690.0382662
ZDHHC15	29.71734524	217.4145517	103.339064
CENPI	39.62312699	549.3451651	35.55752741
DRP2	112.2655265	38.17202053	11.11172731
TAF7L	7.704496914	6.638612267	0
PBDC1	263.0535375	285.4603275	148.897146
GLA	121.0706658	156.0073883	133.3407278
ARMCX3	574.5353413	617.3909408	721.1511027
BEX4	289.4689555	531.0889814	313.3507103
RUBCNL	102.3597447	43.98080627	44.44690926
NALCN	31.91863007	12.447398	192.2328825
FGF14	15.40899383	0	13.33407278
HTR2A	19.81156349	0.829826533	3.333518194
NDFIP2	179.4047139	200.8180211	266.6814555
TNFSF13B	78.14561156	8.298265334	3.333518194
FNDC3A	2043.892967	1198.269514	1875.659571
MLNR	9.905781747	0.829826533	10.00055458
CDADC1	172.8008594	131.1125923	84.44912759
CAB39L	635.0706742	141.0705107	1062.281131
KLF5	2310.248432	420.7220524	1451.191587
STK24	1136.963616	1837.235945	946.7191672
ACP5	193.7130653	221.5636844	30.00166375
DNAJC3	1166.680961	816.5493088	607.8114841
UGGT2	987.2762474	1885.365884	1156.730813
ARHGEF7	1263.537494	867.9985539	788.9326393
FGF9	7.704496914	43.15097974	13.33407278

SGCG	14.30835141	2.4894796	6.667036389
PARP4	1655.366194	1929.34669	1677.870824
SUPT20H	1406.621008	1212.376565	655.5919115
MRPS31	300.4753796	295.4182459	296.6831193
SLC25A15	22.01284833	124.47398	85.56030032
KPNA3	708.8137161	875.4669927	476.6931018
FLT1	641.6745287	1334.361066	317.7954012
RGCC	68.23982981	48.95976547	87.78264578
VWA8	1197.498949	693.7349819	892.2717033
DGKH	451.2633907	1063.007789	160.0088733
KATNAL1	231.1349074	615.7312878	126.6736914
INTS6	882.7152179	913.6390132	437.8020562
ACOD1	0	0	1.111172731
DHRS12	33.01927249	18.25618373	31.11283648
MEDAG	17.61027866	77.1738676	24.44580009
TSC22D1	3760.895136	2438.860182	1815.656243
CLN5	96.85653263	91.28091867	152.2306642
OLFM4	617.4603955	28.21410213	57.78098203
MSLN	13.207709	4.9789592	5.555863657
MGRN1	1010.389738	653.9033083	1378.96536
ZNF629	423.7473303	406.6150013	337.7965104
TRADD	45.12633907	24.06496947	85.56030032
HSF4	126.5738779	36.51236747	208.9004735
CORO1A	104.5610295	171.7740924	115.5619641
MAPK3	526.107075	582.5382264	782.2656029
GDPD3	40.7237694	15.76670413	35.55752741
ELMO3	105.661672	8.298265334	91.11616398
PHKB	2855.066428	1778.318261	2610.144746
LYRM1	194.8137077	247.2883069	82.22678213
NUTF2	117.7687385	217.4145517	143.3412824
NUP93	363.2119974	437.3185831	595.5885841
CENPT	325.7901552	77.1738676	264.4591101
TSNAXIP1	27.51606041	9.9579184	65.55919115
NFAT5	5170.818072	1488.708801	1936.774071
LONP2	2809.940089	1787.446353	3482.41534
N4BP1	1879.897247	2087.013731	1387.854742
CBLN1	0	24.06496947	0
ARL2BP	483.1820208	321.1428684	166.6759097
PLLP	33.01927249	41.49132667	20.00110917
ZNF423	890.4197148	122.8143269	640.0354933
CCL22	14.30835141	0.829826533	8.889381852
DHODH	61.63597531	104.5581432	101.1167186
CCL17	16.50963624	0	1.111172731
CTCF	983.9743202	1230.632749	547.8081566

ACD	114.4668113	180.9021843	206.678128
POLR2C	246.5439013	272.1831029	257.7920737
PARD6A	23.11349074	38.17202053	38.8910456
ZNF821	151.8886534	118.6651943	76.67091847
MMP15	161.7944352	389.1886441	151.1194915
USB1	86.95075089	285.4603275	142.2301096
CYB5B	155.1905807	251.4374396	110.0061004
CCDC113	90.25267814	42.3211532	41.11339106
PRSS54	0	2.4894796	5.555863657
NME3	105.661672	63.06681654	328.9071285
NDRG4	14.30835141	80.49317374	34.44635467
PSMD7	725.3233523	714.4806452	496.694211
SETD6	165.0963624	159.3266944	111.1172731
SLC38A7	77.04496914	76.34404107	205.5669553
VAC14	443.5588938	394.1676033	837.8242395
HAS3	12.10706658	141.9003372	21.1122819
TANGO6	335.695937	289.6094601	491.1383473
COG4	297.1734524	310.3551235	555.5863657
SMPD3	94.6552478	245.6286539	61.11450023
SLC7A6OS	114.4668113	63.06681654	85.56030032
SLC7A6	250.9464709	123.6441535	244.4580009
PLA2G15	59.43469048	46.47028587	98.8943731
ESRP2	517.3019357	377.5710727	675.5930207
FA2H	22.01284833	61.40716347	47.78042745
WDR59	476.5781663	356.8254093	1103.394522
MON1B	1570.616728	271.3532764	465.5813745
AXIN1	307.0792341	596.6452775	688.9270935
HCFC1R1	209.1220591	222.3935109	345.5747195
NPRL3	564.6295596	419.0623993	894.4940488
MLYCD	60.5353329	42.3211532	18.88993643
MPG	186.0085684	377.5710727	332.2406467
NECAB2	3.301927249	2.4894796	18.88993643
HSDL1	108.9635992	227.3724701	164.4535643
TAF1C	274.0599617	148.5389495	714.4840663
NAGPA	67.13918739	118.6651943	155.5641824
WFDC1	203.618847	2.4894796	1.111172731
SEC14L5	50.62955115	34.8527144	68.89270935
COTL1	290.5695979	2435.540875	123.3401732
USP10	742.933631	569.2610019	522.2511838
CRISPLD2	1788.543926	309.5252969	90.00499125
TSC2	1923.922944	1625.630179	5124.728637
ZNF500	133.1777324	153.5179087	272.2373192
NME4	478.7794511	305.3761643	345.5747195
ABCC1	135.3790172	50.61941854	92.22733671

NOMO3	50.62955115	47.3001124	18.88993643
LMF1	305.9785917	104.5581432	583.365684
FOXF1	238.8394043	3.319306133	6.667036389
CIAO3	184.9079259	199.9881945	533.3629111
MTHFSD	177.203429	126.9634596	147.7859733
CLCN7	580.0385534	429.8501443	2516.806237
HAGHL	9.905781747	27.3842756	74.44857301
ANTKMT	17.61027866	46.47028587	57.78098203
SLC7A5	92.45396297	149.368776	107.7837549
METRN	56.13276323	96.25987787	125.5625187
FBXO31	198.1156349	117.8353677	146.6748005
STUB1	522.8051477	486.2783486	874.4929396
RHBDL1	12.10706658	8.298265334	50.00277291
NUBP1	258.6509678	467.1923383	214.4563372
UBE2I	1100.642416	2156.71916	577.8098203
MEFV	12.10706658	36.51236747	40.00221833
CRYM	3.301927249	5.808785734	10.00055458
EEF2K	19.81156349	5.808785734	15.55641824
CAPN15	236.6381195	299.5673785	646.7025297
PIEZO1	2155.057851	725.2683902	4465.803208
GSPT1	2388.394043	2915.180612	2005.66678
ZNF174	99.05781747	92.94057174	81.11560939
CLUAP1	227.8329802	253.0970927	178.8988098
UBFD1	270.7580344	355.1657563	306.6836739
PRSS33	4.402569665	4.9789592	1.111172731
EARS2	188.2098532	220.7338579	412.2450834
ELOB	283.9657434	625.6892062	897.827567
GGA2	817.7773153	853.0616763	1066.725822
AQP8	1.100642416	4.9789592	10.00055458
CPPED1	91.35332055	297.9077255	338.9076831
USP31	1020.29552	1472.942097	1437.857514
HMOX2	47.3276239	15.76670413	7.77820912
DNAJA3	74.84368431	157.6670413	188.8993643
BFAR	2.201284833	43.98080627	10.00055458
SALL1	305.9785917	0.829826533	86.67147305
TOX3	208.0214167	2304.428283	137.7854187
RRN3P2	1.100642416	0	0
RBL2	1685.083539	1081.263973	2486.804573
QPRT	2.201284833	4.9789592	28.89049102
XYLT1	35.22055732	12.447398	40.00221833
PYCARD	56.13276323	22.4053164	38.8910456
RPGRIP1L	862.9036544	809.08087	343.352374
MAZ	1494.672401	2439.690008	1734.540634
STX4	219.0278408	176.7530516	244.4580009

CDIPT	230.034265	297.0778989	436.6908835
BCKDK	298.2740948	294.5884193	554.475193
KAT8	270.7580344	499.5555731	435.5797107
NOMO1	91.35332055	456.4045934	234.4574463
IL21R	22.01284833	4.9789592	23.33462736
SYT17	424.8479727	713.6508187	827.8236849
TMC5	1893.104956	103.7283167	2949.052429
CCP110	994.9807443	4019.679728	865.6035578
VPS35L	1195.297664	1394.938403	1931.218207
SLC6A2	3.301927249	1.659653067	7.77820912
RNF40	822.179885	766.7597168	1156.730813
KNOP1	540.4154264	760.9509311	378.9099014
AQP9	2.201284833	52.2790716	0
AAGAB	748.4368431	802.4422578	528.9182202
IQCH	200.3169198	189.2004496	180.0099825
LACTB	162.8950776	126.1336331	81.11560939
CORO2B	16.50963624	29.8737552	20.00110917
CSK	338.9978642	200.8180211	204.4557826
HERC1	7942.235676	5179.777221	4569.142272
TRIP4	320.2869431	235.6707355	173.3429461
MTFMT	224.5310529	111.1967555	88.89381852
RASL12	127.6745203	22.4053164	21.1122819
AP3B2	38.52248457	366.7833277	87.78264578
ACSBG1	4.402569665	2.4894796	25.55697282
IGDCC4	27.51606041	15.76670413	13.33407278
RAB11A	1028.000017	1146.820269	985.6102128
CTSH	1353.790172	258.9058784	1095.616313
GOLGA8U	2.201284833	1.659653067	3.333518194
TTC23	388.526773	127.7932861	215.5675099
CD276	602.0514017	340.2288787	1444.524551
FAH	143.0835141	125.3038065	165.564737
CEMIP	188.2098532	151.8582556	10402.79911
RPAP1	232.2355498	253.9269192	480.02662
HOMER2	796.8651094	855.5511559	437.8020562
EHD4	368.7152095	416.5729197	642.2578388
TMEM87A	914.6338479	492.0871343	1005.611322
ZNF106	4947.387661	2720.171376	2630.145855
CEP152	222.3297681	3492.739879	338.9076831
ATP8B4	257.5503254	72.1949084	140.0077642
OCA2	2.201284833	3.319306133	2.222345463
DTWD1	369.8158519	249.7777865	111.1172731
TGM5	5.503212081	3.319306133	12.22290005
ENTREP2	1.100642416	0.829826533	14.44524551
GABPB1	277.3618889	497.0660935	161.1200461

TJP1	217.9271984	120.3248473	467.8037199
BMF	117.7687385	207.4566333	57.78098203
DMXL2	2934.312682	2629.720284	3131.284757
SCG3	6.603854498	5.808785734	6.667036389
DNAJC17	112.2655265	53.10889814	87.78264578
EIF3J	135.3790172	148.5389495	47.78042745
SPG11	3118.119965	1616.502087	3251.291412
RHOV	61.63597531	37.342194	52.22511838
VPS18	307.0792341	210.7759395	413.3562561
OIP5	5.503212081	117.8353677	23.33462736
SLC30A4	957.5589022	85.47213294	2871.270338
BLOC1S6	257.5503254	178.4127047	88.89381852
MYEF2	866.2055816	1212.376565	585.5880295
SGK3	28.61670282	30.70358173	21.1122819
PDGFRL	51.73019357	48.95976547	84.44912759
CSPP1	1523.289104	1156.778188	807.8225758
ZDHHC2	396.2312699	632.3278184	534.4740838
BRF2	188.2098532	188.3706231	252.23621
TRIM35	119.9700234	104.5581432	205.5669553
ZFAND1	659.2848074	1295.359219	682.2600571
RP1	36.32119974	63.89664307	15.55641824
CA2	7.704496914	137.7512045	107.7837549
FZD3	452.3640331	507.0240119	431.1350198
INTS9	209.1220591	179.2425312	211.122819
RIPK2	410.5396213	472.1712975	238.9021373
EYA1	958.6595446	858.870462	336.6853376
NBN	2345.468989	3186.533888	1394.521778
TRPA1	28.61670282	15.76670413	24.44580009
CPQ	1102.843701	268.8637968	1308.961478
DECR1	954.2569749	478.8099098	353.3529286
CALB1	8.80513933	10.78774493	44.44690926
BPNT2	1054.415435	2290.321232	971.1649673
SFRP1	1702.693818	187.5407965	95.5608549
LAPTM4B	290.5695979	1310.296096	1177.843095
UBE2W	73.74304189	208.2864599	53.33629111
POP1	178.3040714	297.9077255	198.8999189
NIPAL2	379.7216336	83.81247987	224.4568918
IKBKB	824.3811698	721.949084	2374.576127
PLAT	364.3126398	60.57733694	1495.638497
JPH1	332.3940097	466.3625118	492.24952
DKK4	0	0.829826533	1.111172731
STK3	1026.899374	2160.038466	1211.178277
GDAP1	247.6445437	1214.866045	357.7976195
RAB2A	1472.659553	2604.825488	870.0482487

EIF3E	5104.779527	7460.970361	2042.33548
EMC2	963.0621143	1276.273208	487.8048291
ESRP1	2178.171342	3842.096849	1820.100934
CCN4	46.22698148	61.40716347	94.44968217
NDRG1	3902.878008	3218.067296	3207.955676
ZC2HC1A	709.9143585	565.9416958	522.2511838
IL7	37.42184215	5.808785734	15.55641824
STMN2	39.62312699	39.8316736	6.667036389
ARMC1	255.3490406	773.3983291	232.2351009
TRPS1	6870.209963	824.8475742	6791.487735
SPAG1	150.788011	324.4621745	311.1283648
CHRAC1	138.6809445	404.9553483	88.89381852
NCALD	93.55460539	243.9690008	228.9015827
SNX16	278.4625313	1326.0628	356.6864468
GML	0	4.149132667	0
UBR5	7543.803121	12722.90041	17676.53581
GSDMD	15.40899383	2.4894796	2.222345463
GFUS	2.201284833	2.4894796	3.333518194
PYCR3	6.603854498	5.808785734	7.77820912
EEF1D	111.164884	61.40716347	127.7848641
ANXA13	8.80513933	24.894796	22.22345463
SQLE	670.2912315	2045.522405	1014.500704
SH2D4A	195.9143501	63.06681654	213.3451644
INTS10	996.0813867	888.7442172	771.1538756
ERI1	7.704496914	1.659653067	0
SLC39A14	179.4047139	272.1831029	141.1189369
MTMR9	0	43.98080627	17.7787637
LEPROTL	377.5203488	486.2783486	145.5636278
DCTN6	319.1863007	249.7777865	91.11616398
R3HCC1	200.3169198	145.2196433	143.3412824
GSR	1066.522501	1079.60432	1018.945395
TNFRSF1(	77.04496914	38.17202053	55.55863657
UBXN8	48.42826632	60.57733694	93.33850944
PPP2CB	912.4325631	850.5721967	811.1560939
ERICH1	449.0621058	270.5234499	295.5719466
NEFM	17.61027866	3.319306133	10.00055458
TUSC3	1282.248415	2872.859459	2117.895226
KLHDC4	305.9785917	272.1831029	417.800947
MCM4	428.1498999	6933.200686	302.238983
ADAM2	0	0	4.444690926
KCTD9	186.0085684	190.0302761	44.44690926
FGL1	6.603854498	8.298265334	1.111172731
ASAH1	2784.625313	1564.223015	2207.900217
BNIP3L	460.06853	1269.634596	471.1372381

MAN2B1	679.0963709	351.0166236	1208.955932
KCNN4	30.81798766	10.78774493	4.444690926
TULP2	1.100642416	1.659653067	21.1122819
NUCB1	1474.860838	1351.787423	2717.928501
DHDH	15.40899383	19.08601027	41.11339106
GYS1	830.9850243	458.894073	1008.94484
MAP4K1	4.402569665	5.808785734	20.00110917
CGB2	0	0	2.222345463
ECH1	0	0.829826533	0
HNRNPL	0	0.829826533	1.111172731
LHB	1.100642416	2.4894796	8.889381852
CGB3	0	0.829826533	0
TUBB4A	9.905781747	14.9368776	27.77931829
KCNA7	3.301927249	4.149132667	5.555863657
SNRNP70	1855.683114	1163.4168	1362.297769
CLPTM1	1942.633865	1442.238515	2514.583891
RELB	176.1027866	14.9368776	191.1217098
CLASRP	453.4646755	367.6131543	424.4679834
LIN7B	63.83726015	97.0897044	91.11616398
PPP1R37	309.280519	301.2270316	761.153321
FCGRT	237.7387619	166.7951332	1452.30276
PIH1D1	210.2227015	305.3761643	493.3606928
CKM	16.50963624	4.9789592	5.555863657
ARHGEF1	496.3897298	414.0834401	855.6030032
PPP1R13L	613.0578259	313.6744296	648.9248752
PEX11G	20.91220591	15.76670413	30.00166375
ERCC2	446.860821	320.3130419	862.2700396
DOT1L	758.3426248	1270.464423	1446.746896
PLEKHJ1	44.02569665	100.4090105	52.22511838
SLC17A7	5.503212081	7.4684388	35.55752741
RNASEH2	0	1.659653067	0
KLC3	14.30835141	17.4263572	44.44690926
CD37	205.8201318	35.68254093	84.44912759
SF3A2	505.1948691	796.633472	712.2617209
AMH	44.02569665	75.51421454	217.7898554
DKKL1	1.100642416	4.9789592	11.11172731
LYL1	22.01284833	7.4684388	14.44524551
OAZ1	972.967896	1728.528669	2162.342135
TRMT1	188.2098532	184.2214904	463.359029
STX10	114.4668113	273.842756	351.1305831
FCER2	3.301927249	5.808785734	27.77931829
DMPK	344.5010763	290.4392867	753.3751119
CLEC4M	2.201284833	2.4894796	17.7787637
RSPH6A	6.603854498	14.9368776	22.22345463

TBC1D17	332.3940097	259.7357049	1144.507913
IL4I1	81.44753881	19.9158368	28.89049102
TLE6	14.30835141	92.1107452	73.33740027
YJU2B	209.1220591	157.6670413	471.1372381
PTOV1	659.2848074	756.8017984	1732.318288
TLE5	898.1242117	1180.01333	1101.172177
NOVA2	28.61670282	47.3001124	46.66925472
SGTA	373.1177791	523.6205426	548.9193293
LILRB1	3.301927249	1.659653067	0
MED25	422.6466879	1103.669289	833.3795486
SNAPC2	69.34047223	90.45109214	92.22733671
C19orf53	177.203429	156.0073883	101.1167186
TIMM44	257.5503254	372.5921135	355.5752741
CCDC61	38.52248457	56.42820427	157.7865279
TNNT1	6.603854498	973.3865236	17.7787637
VRK3	482.0813783	357.6552359	668.9259843
FAM32A	100.1584599	181.7320108	82.22678213
PPP6R1	425.9486151	531.0889814	672.2595025
C19orf44	237.7387619	150.1986025	294.4607738
MED26	74.84368431	112.026582	104.4502368
OLFM2	86.95075089	111.1967555	524.4735292
RASAL3	117.7687385	27.3842756	65.55919115
AKAP8	409.4389789	395.8272564	926.718058
EPHX3	8.80513933	4.9789592	17.7787637
ILVBL	128.7751627	209.1162864	432.2461925
ZNF419	230.034265	213.2654191	300.0166375
SYDE1	161.7944352	52.2790716	160.0088733
CASP14	4.402569665	1.659653067	1.111172731
SLC1A6	7.704496914	8.298265334	7.77820912
AURKC	14.30835141	7.4684388	21.1122819
POP4	177.203429	360.1447155	304.4613284
CCNE1	16.50963624	443.1273688	30.00166375
URI1	1463.854414	1943.453741	1818.989761
PDCD5	182.7066411	553.4942978	56.6698093
ANKRD27	554.7237778	807.421217	924.4957126
RPS16	1415.426147	1789.935832	1805.655689
TIMM50	252.0471133	531.9188079	631.1461115
LGALS13	0	0	3.333518194
FBL	14.30835141	24.06496947	16.66759097
DYRK1B	37.42184215	52.2790716	37.77987287
CLC	0	1.659653067	2.222345463
CCNP	13.207709	24.894796	23.33462736
GPI	969.6659688	1687.867169	1438.968687
AKT2	1452.84799	1095.371024	1685.649034

PLD3	790.2612549	927.7460643	2544.585555
PRX	134.2783748	162.6460005	816.7119576
PIAS4	278.4625313	252.2672661	253.3473828
NUMBL	420.445403	358.4850624	614.4785205
EBI3	29.71734524	19.08601027	33.33518194
YJU2	145.284799	120.3248473	213.3451644
SHD	0	60.57733694	0
TBCB	280.6638162	969.237391	668.9259843
FSD1	1.100642416	141.0705107	7.77820912
POLR2I	64.93790256	186.71097	134.4519005
OVOL3	5.503212081	3.319306133	0
CLIP3	401.7344819	78.83352067	268.903801
ZFR2	6.603854498	10.78774493	28.89049102
SLC1A5	860.7023695	1059.688483	471.1372381
PRKD2	671.3918739	653.0734818	1467.859178
TJP3	500.7922994	247.2883069	575.5874749
APLP1	6.603854498	1127.734259	64.44801842
CACTIN	292.7708827	250.6076131	537.807602
CCDC9	202.5182046	241.4795212	396.6886651
HNRNPUL	3747.687427	6032.838898	2472.359327
FZR1	355.5075005	376.7412461	917.8286762
BBC3	7.704496914	20.74566333	28.89049102
TGFB1	933.344769	429.8501443	520.0288383
DENND3	742.933631	535.238114	888.9381852
DMAC2	265.2548223	612.4119816	318.9065739
CEACAM4	0	0.829826533	0
PLIN3	384.1242033	172.6039189	838.9354122
MYH14	314.7837311	1565.882668	1303.405614
MRPL4	346.7023611	331.9306133	610.0338296
SIGLEC8	17.61027866	9.128091867	47.78042745
CD79A	16.50963624	2.4894796	21.1122819
LIM2	1.100642416	0	22.22345463
ICAM4	0	5.808785734	26.66814555
RPS19	737.4304189	1226.483616	1276.737468
NOP53	1045.610295	422.3817055	861.1588669
NKG7	23.11349074	0.829826533	13.33407278
ICAM5	15.40899383	10.78774493	24.44580009
ETFB	50.62955115	50.61941854	96.67202764
CD33	29.71734524	17.4263572	17.7787637
CEACAM5	36.32119974	318.6533888	31.11283648
CRX	4.402569665	0.829826533	3.333518194
BABAM1	45.12633907	68.04577574	111.1172731
TYK2	906.929351	768.4193699	2083.448871
SULT2A1	2.201284833	1.659653067	0

CDC37	1122.655265	1087.902585	1458.969796
NAPA	715.4175706	569.2610019	836.7130668
RABAC1	17.61027866	18.25618373	11.11172731
ATP1A3	0	123.6441535	6.667036389
MEIS3	37.42184215	85.47213294	113.3396186
PTPRS	8418.813842	2341.770477	11668.42485
CNFN	69.34047223	246.4584804	47.78042745
ZNRF4	2.201284833	1.659653067	0
MEGF8	1123.755907	1004.090105	4616.922699
KDELR1	1101.743059	1050.560391	1870.103707
CYTH2	771.5503338	819.868615	1257.847532
GRWD1	194.8137077	237.3303885	222.2345463
GRIN2D	26.41541799	13.27722453	58.89215477
SYNGR4	5.503212081	100.4090105	3.333518194
CLEC11A	25.31477557	48.95976547	46.66925472
ODAD1	3.301927249	58.08785734	15.55641824
CARD8	409.4389789	485.448522	312.2395375
LIG1	228.9336226	1273.783729	387.7992833
SIGLEC6	61.63597531	1.659653067	1.111172731
ZNF175	331.2933673	331.1007868	252.23621
PLA2G4C	61.63597531	27.3842756	34.44635467
SIGLEC5	1.100642416	0	0
CABP5	7.704496914	0	1.111172731
HAS1	6.603854498	2.4894796	4.444690926
RAB3D	747.3362007	273.0129295	692.2606117
DBP	187.1092108	151.8582556	211.122819
TMEM205	302.6766645	229.8619497	1176.731923
CAPS	5.503212081	0.829826533	5.555863657
PLPPR2	544.8179961	112.026582	1106.728041
FAM83E	7.704496914	8.298265334	7.77820912
RASIP1	96.85653263	78.83352067	15.55641824
THEG	8.80513933	51.44924507	27.77931829
FGF21	0	3.319306133	17.7787637
BCAT2	508.4967963	472.1712975	1118.950941
MIER2	203.618847	278.8217152	462.2478563
PLEKHA4	215.7259136	29.04392867	192.2328825
PPP2R1A	887.1177875	1041.432299	3430.190222
TNPO2	1009.289096	805.7615639	1285.62685
CACNG7	1.100642416	0.829826533	6.667036389
GCDH	224.5310529	365.9535012	684.4824026
KLF1	4.402569665	3.319306133	0
DNASE2	127.6745203	483.788869	452.2473017
MAST1	23.11349074	310.3551235	21.1122819
PRPF31	9.905781747	8.298265334	5.555863657

TFPT	1.100642416	0.829826533	0
JAK3	231.1349074	34.02288787	133.3407278
RPL18A	611.9571835	677.9682778	763.3756665
SLC5A5	3.301927249	4.149132667	61.11450023
KCNN1	7.704496914	18.25618373	198.8999189
ARRDC2	108.9635992	147.7091229	428.9126743
PIK3R2	0	0.829826533	18.88993643
RAB3A	224.5310529	378.4008992	83.33795486
PDE4C	3.301927249	0.829826533	11.11172731
ISYNA1	401.7344819	790.8246863	1667.87027
ELL	308.1798766	214.0952456	302.238983
CRTC1	830.9850243	926.9162378	1081.171068
COMP	1474.860838	86.30195947	35.55752741
UPK1A	47.3276239	30.70358173	34.44635467
COPE	333.4946521	481.2993894	793.3773302
DDX49	148.5867262	180.0723577	314.461883
ETV2	16.50963624	20.74566333	17.7787637
ATP4A	5.503212081	37.342194	32.22400921
ARMC6	312.5824462	331.1007868	504.4724201
TMEM147	62.73661773	136.921378	252.23621
GAPDHS	0	2.4894796	13.33407278
MAG	12.10706658	2.4894796	6.667036389
TMEM59L	3.301927249	49.789592	26.66814555
HAMP	4.402569665	0	6.667036389
USF2	713.2162858	628.1786858	883.3823215
LSR	830.9850243	2075.39616	2779.043001
KXD1	527.2077174	349.3569705	368.9093468
FKBP8	674.6938012	946.002248	1977.887462
SUGP1	463.3704573	522.790716	480.02662
HPN	314.7837311	110.3669289	1042.280022
ZNF14	254.2483982	246.4584804	308.9060193
SCN1B	12.10706658	28.21410213	18.88993643
PBX4	37.42184215	31.53340827	50.00277291
ERF	331.2933673	313.6744296	407.8003924
GSK3A	478.7794511	541.0468998	534.4740838
ATP13A1	925.6402721	611.5821551	2093.449426
ZNF574	485.3833056	471.341471	765.598012
GRIK5	160.6937928	34.8527144	62.22567296
SIPA1L3	5648.49688	2681.999356	2921.273111
ETHE1	186.0085684	146.0494699	344.4635467
CADM4	258.6509678	526.9398487	637.8131478
SMG9	330.1927249	347.6973175	385.5769378
AVL9	611.9571835	410.764134	434.468538
RUNDC3B	7.704496914	10.78774493	1.111172731

CFAP69	1448.44542	83.81247987	2792.377074
GTPBP10	313.6830886	186.71097	124.4513459
RASA4	5.503212081	4.9789592	0
CDK6	1084.13278	71.36508187	91.11616398
PMPCB	1287.751627	790.8246863	615.5896932
DNAJC2	432.5524696	262.2251845	248.9026918
TFPI2	38.52248457	4.9789592	202.2334371
BET1	138.6809445	75.51421454	71.11505481
NAMPT	2065.905815	1675.419771	606.7003114
POLR1F	430.3511848	263.0550111	117.7843095
PIK3CG	211.3233439	68.87560227	97.78320037
PON3	9.905781747	3.319306133	0
PON2	575.6359837	671.3296655	525.584702
ITGB8	533.8115719	128.6231127	315.5730557
HBP1	184.9079259	62.23699	118.8954823
DUS4L	0	0.829826533	0
SP4	517.3019357	702.0332472	382.2434196
WDR91	316.9850159	109.5371024	281.1267011
DNAH11	432.5524696	315.3340827	392.2439742
CBLL1	1573.918655	587.5171856	500.0277291
DLX5	86.95075089	97.91953094	113.3396186
MTPN	425.9486151	678.7981043	666.7036389
STEAP1B	18.71092108	11.61757147	5.555863657
PTN	607.5546138	33.19306133	2156.786272
PALS2	584.4411231	1477.091229	1454.525105
GSDME	79.24625397	49.789592	102.2278913
ATP6V0A4	12.10706658	43.15097974	28.89049102
ZC3HAV1	1407.72165	1090.392065	1012.278358
TTC26	145.284799	213.2654191	128.8960368
OGDH	1876.59532	1100.349983	1438.968687
NPVF	3.301927249	0.829826533	3.333518194
ADAP1	1.100642416	14.9368776	1.111172731
TFEC	166.1970049	30.70358173	55.55863657
H2AZ2	523.9057902	1618.991567	247.7915191
CAV2	126.5738779	32.3632348	73.33740027
CAV1	247.6445437	87.96161254	180.0099825
MET	461.1691724	2538.439366	1018.945395
RNF32	20.91220591	23.23514293	32.22400921
LMBR1	661.4860922	747.6737066	668.9259843
NHP2P1	0	2.4894796	5.555863657
WNT2	77.04496914	0.829826533	92.22733671
HOXA1	75.94432672	33.19306133	44.44690926
DNAJB6	512.899366	494.5766139	241.1244827
HOXA2	52.83083598	8.298265334	18.88993643

HOXA3	354.406858	26.55444907	54.44746384
LFNG	241.0406892	250.6076131	101.1167186
HOXA5	104.5610295	24.06496947	41.11339106
HOXA6	36.32119974	11.61757147	0
BRAT1	190.411138	177.5828781	428.9126743
IQCE	490.8865177	201.6478476	326.684783
ANKRD7	3.301927249	3.319306133	0
VIPR2	85.85010847	11.61757147	71.11505481
TSPAN12	141.9828717	149.368776	791.1549848
SSBP1	186.0085684	156.8372148	41.11339106
HOXA13	922.3383449	3.319306133	277.7931829
CPED1	1199.700234	67.2159492	413.3562561
EVX1	16.50963624	2.4894796	38.8910456
HIBADH	585.5417655	242.3093477	468.9148927
TAX1BP1	1928.325513	1506.964985	1700.094279
CPVL	336.7965794	82.98265334	190.0105371
CHN2	161.7944352	707.842033	23.33462736
GRB10	517.3019357	484.6186955	483.3601382
ABHD11	302.6766645	112.026582	175.5652916
COBL	1757.725939	766.7597168	692.2606117
FKBP14	212.4239863	69.7054288	58.89215477
PLEKHA8	270.7580344	187.5407965	193.3440553
STX1A	45.12633907	72.1949084	31.11283648
NOD1	215.7259136	185.8811435	80.00443666
GARS1	1477.062123	1223.16431	573.3651294
CRHR2	3.301927249	1.659653067	0
EPHB6	15.40899383	13.27722453	241.1244827
MINDY4	17.61027866	5.808785734	6.667036389
GHRHR	7.704496914	5.808785734	22.22345463
CASP2	361.0107125	434.8291035	336.6853376
CHCHD2	266.3554647	553.4942978	497.8053837
CCL24	16.50963624	8.298265334	0
HSPB1	2596.41546	1513.603597	2422.356555
NPTX2	13.207709	596.6452775	7.77820912
PDAP1	803.4689639	630.6681654	283.3490465
BUD31	449.0621058	318.6533888	181.1211552
PTCD1	18.71092108	15.76670413	16.66759097
CYP3A5	45.12633907	2.4894796	115.5619641
ZKSCAN1	2441.224879	662.2015736	1032.279468
EIF3B	1196.398307	1097.860504	726.7069664
SNX8	163.99572	185.0513169	363.3534832
NUDT1	34.11991491	103.7283167	38.8910456
PTPRZ1	138.6809445	14.9368776	32.22400921
TAF6	713.2162858	563.4522162	663.3701207

WASL	1252.53107	641.4559103	602.2556204
HYAL4	8.80513933	0.829826533	6.667036389
SPAM1	5.503212081	4.149132667	7.77820912
AIMP2	265.2548223	250.6076131	246.6803464
TFR2	8.80513933	25.72462253	10.00055458
FSCN3	6.603854498	4.9789592	12.22290005
MOSPD3	114.4668113	61.40716347	107.7837549
PAX4	1.100642416	0.829826533	2.222345463
PCOLCE	862.9036544	198.3285415	1073.392859
FBXO24	11.00642416	11.61757147	42.22456379
PPP1R17	1.100642416	0	0
RBM28	855.1991575	568.4311754	481.1377927
USP42	1065.421859	585.027706	468.9148927
IMPDH1	187.1092108	89.6212656	233.3462736
AGFG2	208.0214167	63.89664307	235.5686191
LSM5	93.55460539	117.8353677	38.8910456
SERPINE1	172.8008594	318.6533888	64.44801842
AP1S1	165.0963624	205.7969803	123.3401732
MOGAT3	1.100642416	0	23.33462736
C1GALT1	176.1027866	267.2041437	110.0061004
PLOD3	399.5331971	381.7202053	417.800947
RPA3	67.13918739	178.4127047	42.22456379
ZNHIT1	155.1905807	107.0476228	186.6770189
CLDN15	66.03854498	30.70358173	51.11394565
NOBOX	0	0	18.88993643
GLCCI1	350.0042884	394.9974299	240.01331
MYL10	0	0	17.7787637
PHF14	1508.980753	1544.307179	816.7119576
NRF1	341.1991491	261.395358	318.9065739
TMEM106	648.2783832	384.2096849	374.4652105
EZH2	241.0406892	1349.297943	74.44857301
CEP41	95.75589022	166.7951332	87.78264578
ZNF862	574.5353413	115.3458881	683.3712298
SFRP4	894.8222845	30.70358173	738.9298664
MEST	261.9528951	703.6929003	554.475193
MEOX2	47.3276239	5.808785734	104.4502368
ANKMY2	376.4197064	220.7338579	196.6775735
ACTR3C	187.1092108	35.68254093	40.00221833
POU6F2	15.40899383	10.78774493	24.44580009
TSPAN13	709.9143585	311.18495	492.24952
RARRES2	187.1092108	2.4894796	134.4519005
AGR2	1910.715235	19.08601027	177.787637
AHR	159.5931504	95.43005134	28.89049102
CHCHD3	309.280519	386.6991645	176.6764643

GIMAP2	82.54818122	9.9579184	32.22400921
TMEM176	263.0535375	44.8106328	27.77931829
GLI3	1976.75378	878.7862988	1294.516232
PSMA2	26.41541799	19.9158368	5.555863657
MRPL32	357.7087853	221.5636844	86.67147305
COA1	167.2976473	276.3322356	43.33573653
BLVRA	179.4047139	159.3266944	206.678128
URGCP	536.0128567	241.4795212	525.584702
TMEM248	1343.88439	797.4632986	1003.388976
RHEB	258.6509678	439.8080627	137.7854187
PRKAG2	1127.057834	310.3551235	801.1555394
AEBP1	6726.025806	736.8859616	964.4979309
POLD2	494.1884449	721.1192575	380.0210742
MYL7	1.100642416	3.319306133	1.111172731
GCK	5.503212081	58.08785734	22.22345463
BCL7B	467.7730269	243.1391743	235.5686191
YKT6	490.8865177	470.5116444	228.9015827
TBL2	324.6895128	110.3669289	328.9071285
GALNTL5	4.402569665	1.659653067	11.11172731
CLIP2	291.6702403	184.2214904	222.2345463
EIF4H	1222.813725	1114.457034	675.5930207
LIMK1	332.3940097	145.2196433	333.3518194
SPATA6L	99.05781747	33.19306133	54.44746384
SLC1A1	205.8201318	19.08601027	145.5636278
LHX2	1.100642416	809.9106966	27.77931829
FKTN	462.2698148	486.2783486	405.578047
FSD1L	204.7194894	615.7312878	83.33795486
CNTNAP3	8.80513933	7.4684388	27.77931829
SPIN1	1227.216294	1966.688884	1013.389531
NMRK1	81.44753881	65.55629614	113.3396186
TMEM245	1733.511806	1800.723577	2197.899663
PRUNE2	4449.897289	5459.428763	8614.922187
MEGF9	606.4539714	853.8915028	280.0155283
TRIM14	457.8672452	586.6873591	204.4557826
CORO2A	334.5952946	502.8748792	342.2412013
TGFBR1	2177.070699	3581.531318	2407.911309
SEC61B	168.3982897	448.9361546	236.6797918
C5	431.4518272	441.4677158	544.4746384
OGN	48.42826632	0	115.5619641
ASPN	25.31477557	19.9158368	0
ECM2	39.62312699	0.829826533	1.111172731
TLE4	536.0128567	851.4020232	754.4862846
LHX6	17.61027866	9.9579184	42.22456379
PTGR1	1193.096379	285.4603275	601.1444477

SUSD1	486.483948	546.025859	332.2406467
AMBP	4.402569665	7.4684388	0
AKNA	979.5717505	503.7047058	531.1405656
TNFSF8	19.81156349	17.4263572	13.33407278
DNM1	243.241974	993.3023604	198.8999189
ENG	1389.010729	508.683665	737.8186937
AK1	4.402569665	11.61757147	2.222345463
CDC37L1	487.5845904	410.764134	267.7926283
RLN2	90.25267814	31.53340827	167.7870824
RLN1	226.7323378	19.9158368	1060.058786
PLGRKT	53.9314784	109.5371024	327.7959558
TBC1D13	202.5182046	136.0915515	313.3507103
RIC1	1303.160621	1076.285014	1347.852523
KDM4C	1582.723795	1330.211933	1037.835331
DOCK8	1512.28268	394.9974299	451.136129
KANK1	1460.552486	905.3407479	1271.181605
ELAVL2	7.704496914	599.9645836	211.122819
NCS1	145.284799	216.5847252	61.11450023
TESK1	480.9807359	614.9014612	895.6052215
KCNT1	6.603854498	72.1949084	177.787637
CA9	2.201284833	56.42820427	4.444690926
FUBP3	1504.578183	1602.395036	1216.734141
TYRP1	11.00642416	144.3898168	93.33850944
CREB3	226.7323378	185.0513169	341.1300286
RGP1	637.271959	835.6353191	973.3873127
MPDZ	2971.734524	2594.037743	3069.059084
LHX3	9.905781747	9.9579184	0
RIGI	19.81156349	26.55444907	22.22345463
EDF1	858.5010847	922.7671051	747.8192483
PIP5K1B	51.73019357	348.527144	182.232328
GLIS3	697.8072919	329.4411337	313.3507103
BAG1	215.7259136	350.1867971	292.2384284
RAPGEF1	1446.244135	1285.4013	2644.591101
NPDC1	161.7944352	93.77039827	516.6953201
APBA1	81.44753881	42.3211532	88.89381852
SETX	7714.402696	9660.840501	5965.886395
SH3GL2	3.301927249	292.0989397	18.88993643
PTGDS	17.61027866	0.829826533	160.0088733
ABCA2	2956.32553	2723.490683	4032.445842
SHB	133.1777324	126.1336331	28.89049102
UBE2R2	1026.899374	1524.391342	837.8242395
ABHD17B	108.9635992	301.2270316	394.4663197
EXOSC3	453.4646755	880.4459519	377.7987287
ZFAND5	770.4496914	1589.117811	1156.730813

DVL1	283.9657434	249.7777865	1390.077087
PDLIM1	538.2141416	399.1465625	400.0221833
CCNJ	157.3918655	199.158368	42.22456379
DNTT	4.402569665	4.149132667	2.222345463
GATA3	351.1049308	9.128091867	178.8988098
ATRNL1	370.9164943	701.2034207	323.3512648
HPS1	52.83083598	34.02288787	101.1167186
PHYH	244.3426164	735.2263086	261.1255919
RASSF4	200.3169198	102.8984901	198.8999189
DNMBP	808.972176	814.8896558	554.475193
RAB11FIP	855.1991575	911.9793602	547.8081566
CXCL12	584.4411231	56.42820427	180.0099825
ERLIN1	197.0149925	249.7777865	135.5630732
EIF3A	8009.374863	7051.865881	5071.392346
PKD2L1	13.207709	3.319306133	6.667036389
CUBN	692.3040799	109.5371024	1303.405614
TRDMT1	150.788011	99.579184	173.3429461
DDX50	551.4218506	877.1266458	487.8048291
MAPK8	369.8158519	927.7460643	418.9121198
SEC23IP	2138.548215	1244.7398	1960.108698
ATE1	435.8543969	1063.837616	720.03993
NSMCE4A	367.614567	435.65893	353.3529286
PLEKHA1	626.2655349	1638.907403	452.2473017
PALD1	112.2655265	103.7283167	241.1244827
UNC5B	374.2184215	248.94796	167.7870824
CDH23	85.85010847	2166.677079	715.595239
VSIR	202.5182046	107.0476228	453.3584744
SPOCK2	124.372593	23.23514293	147.7859733
MICU1	676.895086	814.0598292	1211.178277
PPP3CB	953.1563325	1216.525698	916.7175034
CCSER2	1725.807309	4133.365963	1081.171068
BMPR1A	1119.353337	743.5245739	907.8281216
MINPP1	99.05781747	23.23514293	34.44635467
ACTA2	11409.25929	478.8099098	676.7041934
LIPA	482.0813783	619.8804204	706.7058572
TLX1	1.100642416	17.4263572	0
TWNK	113.3661689	129.4529392	132.229555
LZTS2	422.6466879	279.6515417	402.2445288
SFXN3	138.6809445	52.2790716	34.44635467
KAZALD1	22.01284833	13.27722453	18.88993643
FBXW4	484.2826632	106.2177963	525.584702
FGF8	4.402569665	0.829826533	0
NPM3	28.61670282	45.64045934	30.00166375
TNKS2	1337.280536	1232.292402	1023.390086

PITX3	2.201284833	0	0
GBF1	2056.000034	828.9967068	1540.085406
ARHGAP2	2811.040731	2974.928122	2569.031355
CPEB3	386.3254881	149.368776	272.2373192
FBXL15	23.11349074	35.68254093	63.33684569
CUEDC2	112.2655265	185.0513169	277.7931829
SUFU	217.9271984	94.6002248	188.8993643
ANKRD26	1190.895094	1336.020719	667.8148116
ACBD5	775.9529035	1170.885239	742.2633846
LHPP	162.8950776	241.4795212	417.800947
LARP4B	1542.000025	1721.890057	1660.092061
GTPBP4	679.0963709	1408.215627	590.0327204
EDRF1	969.6659688	1093.711371	875.6041124
BCCIP	668.0899467	1093.711371	500.0277291
MTPAP	379.7216336	813.2300027	446.691438
NEURL1	17.61027866	475.4906036	66.67036389
SH3PXD2A	966.3640415	722.7789106	1918.995307
PITRM1	1916.218447	2469.563763	1682.315515
STN1	23.11349074	16.59653067	1.111172731
MAP3K8	234.4368347	109.5371024	288.9049102
DKK1	22.01284833	1.659653067	0
EBF3	23.11349074	32.3632348	257.7920737
GLRX3	259.7516102	807.421217	224.4568918
SORCS1	46.22698148	4.149132667	14.44524551
TASOR2	2817.644586	4143.323881	3265.736658
XPNPEP1	646.0770984	769.2491964	1077.837549
SMC3	1387.910087	4399.74028	861.1588669
SHOC2	1259.134924	1731.847975	1400.077642
TFAM	309.280519	475.4906036	274.4596647
CCDC6	2151.755924	2101.120782	1044.502368
CUL2	726.4239948	1049.730565	571.142784
CCNY	1007.087811	1206.56778	752.2639392
UBE2S	57.23340565	1118.606167	162.2312188
RPL28	2765.914392	1298.678525	1282.293332
ZMIZ1	8895.392009	2521.013008	4476.914935
DNAJC12	23.11349074	95.43005134	12.22290005
PPIF	63.83726015	198.3285415	30.00166375
PBLD	94.6552478	53.93872467	148.897146
TSPAN14	461.1691724	723.6087371	834.4907213
LGI1	13.207709	5.808785734	15.55641824
TBC1D12	283.9657434	252.2672661	245.5691736
CYP2C18	1.100642416	3.319306133	0
CRYBA1	1.100642416	0	3.333518194
NUFIP2	4279.297715	4062.830707	2330.129218

GIT1	561.3276323	902.8512683	1151.17495
RPL19	1744.51823	1556.754577	1680.09317
FBXL20	417.1434758	624.8593796	564.4757476
RUNDC3A	13.207709	285.4603275	12.22290005
UBTF	1608.03857	2199.040313	1747.874707
CSF3	1.100642416	0	1.111172731
PSMD3	737.4304189	1086.242932	1811.211552
CASC3	2281.631729	1870.429006	1721.206561
RAPGEFL	143.0835141	180.9021843	376.687556
RGS9	127.6745203	34.8527144	37.77987287
RNF43	39.62312699	24.894796	68.89270935
ASPA	26.41541799	7.4684388	183.3435007
RAD51C	540.4154264	1011.558544	293.3496011
SEPTIN4	89.15203572	78.83352067	256.680901
MTMR4	1036.805156	1545.966832	1895.66068
TRIM37	1061.019289	2164.187599	1085.615759
P2RX1	15.40899383	0.829826533	8.889381852
DHX40	576.7366261	1484.559668	870.0482487
TUBD1	213.5246288	296.2480724	183.3435007
KPNB1	3475.828751	8459.251681	3121.284203
GOSR2	236.6381195	289.6094601	113.3396186
PNPO	86.95075089	41.49132667	101.1167186
RPS6KB1	865.1049392	552.6644712	355.5752741
CDK5RAP	95.75589022	42.3211532	182.232328
CBX1	725.3233523	1885.365884	631.1461115
RECQL5	280.6638162	305.3761643	910.050467
PIGL	158.4925079	84.6423064	152.2306642
GALK1	71.54175706	29.04392867	147.7859733
INTS2	422.6466879	904.5109214	597.8109295
CAMTA2	915.7344904	628.1786858	1596.755215
MED13	4462.004356	5061.112027	5371.408984
HOXB6	1.100642416	8.298265334	22.22345463
ENO3	40.7237694	323.632348	92.22733671
PFN1	1989.961489	3689.408767	2385.687854
RNF167	458.9678876	650.5840022	781.1544302
SLC25A11	193.7130653	245.6286539	532.2517384
RASD1	100.1584599	2229.743895	197.7887462
CHRNE	14.30835141	25.72462253	33.33518194
RAI1	2575.503254	2194.061354	3005.722239
NUP88	761.6445521	1381.661178	933.3850944
C1QBP	403.9357668	848.0827171	368.9093468
SLC6A4	11.00642416	4.149132667	1532.307197
BLMH	342.2997915	1058.02883	572.2539567
CPD	2903.494694	5857.745499	4026.889979

GOSR1	748.4368431	863.0195947	353.3529286
CCDC47	1668.573903	1639.73723	1284.515678
MED31	119.9700234	141.0705107	54.44746384
DRG2	158.4925079	242.3093477	394.4663197
FTSJ3	723.1220675	492.0871343	692.2606117
AKAP10	585.5417655	848.0827171	922.2733671
ALDH3A1	4.402569665	48.12993894	11.11172731
SMARCD2	604.2526865	629.0085123	817.8231303
ICAM2	14.30835141	24.06496947	11.11172731
SYNGR2	882.7152179	310.3551235	1210.067105
B9D1	122.1713082	210.7759395	341.1300286
UTP6	736.3297765	931.0653704	725.5957936
DDX5	10614.59546	12030.82508	12100.67105
C17orf75	171.7002169	434.8291035	314.461883
CYTH1	792.4625397	489.5976547	584.4768567
PSMD11	833.1863091	1744.295373	1241.179941
LGALS3BI	1375.80302	2125.185752	1121.173286
ASIC2	12.10706658	20.74566333	16.66759097
CCL7	2.201284833	1.659653067	0
CCL2	740.7323462	61.40716347	17.7787637
CCL8	3.301927249	0.829826533	0
CCL1	0	4.9789592	1.111172731
PEX12	102.3597447	107.0476228	92.22733671
KRT32	2.201284833	0.829826533	11.11172731
DHX58	267.4561072	40.66150013	110.0061004
KAT2A	683.4989405	684.60689	1683.426688
RAB5C	52.83083598	112.8564085	58.89215477
NAGLU	193.7130653	112.8564085	322.2400921
HSD17B1P	3.301927249	4.149132667	0
HSD17B1	12.10706658	10.78774493	17.7787637
MLX	222.3297681	268.0339703	201.1222644
CNTNAP1	305.9785917	206.6268068	170.0094279
ABI3	51.73019357	19.9158368	67.78153662
EZH1	1197.498949	880.4459519	1475.637387
DLX4	0	13.27722453	3.333518194
PPP1R9B	683.4989405	550.1749916	572.2539567
COL1A1	14653.95313	11197.67924	5074.725864
SGCA	116.6680961	4.149132667	16.66759097
PTGES3L-	1.100642416	0	0
MRPL27	113.3661689	231.5216028	248.9026918
VAT1	239.9400468	480.4695628	1011.167186
LRRC59	440.2569665	413.2536136	501.1389019
RND2	18.71092108	24.06496947	20.00110917
ALOX12	2.201284833	6.638612267	11.11172731

HDAC5	465.5717421	516.1521038	1580.087624
ABCC3	290.5695979	37.342194	50.00277291
LUC7L3	2426.916528	1744.295373	1337.851969
PPY	0	1.659653067	3.333518194
MPP2	44.02569665	174.263572	64.44801842
SMURF2	1877.695962	1136.862351	821.1566485
DUSP3	395.1306275	405.7851748	552.2528475
CACNG1	3.301927249	4.149132667	12.22290005
EFTUD2	803.4689639	1325.232974	1323.406723
HLF	175.0021442	53.93872467	151.1194915
SLC16A6	24.21413316	38.17202053	136.674246
PRKAR1A	3161.04502	2639.678203	2062.33659
EFNB3	13.207709	92.1107452	25.55697282
FAM20A	133.1777324	30.70358173	688.9270935
YWHAE	2.201284833	3.319306133	1.111172731
ENSG0000	3.301927249	3.319306133	6.667036389
MMD	85.85010847	272.1831029	68.89270935
RANGRF	71.54175706	202.4776741	144.4524551
DPH1	314.7837311	164.3056536	512.2506292
MAP2K6	263.0535375	223.2233375	245.5691736
DHRS7B	139.7815869	142.7301637	297.794292
WSB1	2596.41546	1787.446353	2975.720575
RCVRN	0	0.829826533	26.66814555
MYH1	41.82441182	19.08601027	56.6698093
NHERF1	683.4989405	345.2078379	366.6870014
MYH3	423.7473303	350.1867971	703.372339
NAT9	128.7751627	109.5371024	148.897146
TMEM104	221.2291257	266.3743172	303.3501557
VTN	11.00642416	2.4894796	3.333518194
TNFAIP1	223.4304105	290.4392867	185.5658462
IFT20	117.7687385	80.49317374	90.00499125
TMEM97	314.7837311	1830.597333	117.7843095
CDR2L	84.74946605	100.4090105	76.67091847
PMP22	292.7708827	366.7833277	2196.78849
FOXN1	25.31477557	1.659653067	14.44524551
UNC119	244.3426164	341.0587052	450.0249562
ALDOC	92.45396297	10.78774493	78.89326393
SUPT6H	3146.736668	2545.907804	2654.591655
RAB34	160.6937928	22.4053164	80.00443666
PHF12	3005.854439	1874.578139	5284.737511
PHOX2B	0	2.4894796	0
TMEM33	827.6830971	769.2491964	940.0521308
GABRA4	1.100642416	3.319306133	3.333518194
GNRHR	5.503212081	0.829826533	0

SLAIN2	1912.91652	1653.844281	994.4995946
OCIAD1	876.1113634	1245.569627	697.8164753
UGT2B10	7.704496914	1.659653067	10.00055458
CWH43	523.9057902	3.319306133	510.0282837
DCUN1D4	450.1627483	813.2300027	460.0255108
USP46	358.8094277	247.2883069	556.6975385
SULT1E1	2.201284833	4.9789592	22.22345463
ODAM	6.603854498	4.149132667	24.44580009
SMR3A	0	0	3.333518194
CHIC2	118.869381	129.4529392	47.78042745
NMU	8.80513933	69.7054288	3.333518194
CRACD	135.3790172	164.3056536	101.1167186
LAMTOR3	334.5952946	203.3075007	194.455228
PF4V1	1.100642416	4.149132667	17.7787637
NFKB1	1077.528926	391.6781237	1618.97867
AREG	17.61027866	34.02288787	16.66759097
MANBA	695.6060071	783.3562475	2589.032464
UBE2D3	876.1113634	826.5072272	787.8214666
MAPK10	1018.094235	45.64045934	2702.372083
ELF2	1032.402586	2275.384354	1545.641269
NDUFC1	201.4175622	341.8885317	278.9043556
UCP1	0	2.4894796	4.444690926
TBC1D9	1769.833005	1326.0628	2006.777953
ZNF330	376.4197064	367.6131543	222.2345463
INPP4B	4157.126406	658.052441	587.8103749
GAB1	1036.805156	448.9361546	1130.062668
KLHL2	465.5717421	1659.653067	246.6803464
IL2	4.402569665	0	0
CPE	2224.398323	14370.9359	2716.817328
RPL34	582.2398382	399.1465625	438.9132289
WFS1	603.1520441	167.6249597	821.1566485
ANXA10	2.201284833	9.9579184	4.444690926
GRPEL1	116.6680961	214.0952456	200.0110917
GAR1	193.7130653	140.2406841	96.67202764
FRG1	4.402569665	4.149132667	2.222345463
CLCN3	1709.297673	1266.31529	3590.199095
AADAT	254.2483982	407.4448279	104.4502368
GALNT7	1292.154197	1596.58625	2337.907427
DHX15	2388.394043	3244.621745	2806.82232
SOD3	400.6338395	14.10705107	47.78042745
SEPSECS	155.1905807	205.7969803	334.4629922
CPZ	6.603854498	0	0
TRIM2	53.9314784	116.1757147	18.88993643
SLC2A9	90.25267814	35.68254093	90.00499125

FBXW7	849.6959454	1912.750159	634.4796297
NEIL3	17.61027866	350.1867971	2.222345463
TBC1D19	307.0792341	21.57548987	303.3501557
CLNK	25.31477557	13.27722453	13.33407278
NSD2	836.4882364	2534.290233	1591.199351
SH3D19	52.83083598	0	0
STIM2	691.2034374	78.00369414	768.9315302
NKX3-2	1.100642416	3.319306133	15.55641824
MFSD10	79.24625397	63.06681654	591.1438931
GLRB	93.55460539	106.2177963	6.667036389
BST1	40.7237694	22.4053164	68.89270935
RAPGEF2	1839.173478	2027.266221	1964.553389
HGFAC	13.207709	9.128091867	26.66814555
SNX25	465.5717421	644.7752164	487.8048291
LRP2BP	25.31477557	76.34404107	43.33573653
UFSP2	621.8629652	702.0332472	328.9071285
KLF3	1288.852269	413.2536136	963.3867582
KLHL5	1342.783748	316.1639092	566.698093
FAM149A	193.7130653	37.342194	65.55919115
NCAPG	62.73661773	869.658207	38.8910456
UGDH	3791.713124	648.9243491	2132.340472
PPARGC1	246.5439013	81.32300027	102.2278913
DDX25	11.00642416	12.447398	10.00055458
CRYAB	518.4025781	39.00184707	58.89215477
DBX1	3.301927249	1.659653067	0
HTATIP2	146.3854414	475.4906036	84.44912759
CTSC	1398.916511	711.9911656	354.4641013
CCDC34	79.24625397	284.6305009	71.11505481
ZBTB16	825.4818122	757.631625	2201.233181
ELP4	202.5182046	172.6039189	153.3418369
ZPR1	243.241974	314.5042561	261.1255919
MTCH2	4.402569665	280.4813683	31.11283648
FNBP4	159.5931504	53.93872467	66.67036389
TECTA	30.81798766	41.49132667	98.8943731
SC5D	1757.725939	897.0424826	767.8203574
CRTAM	7.704496914	2.4894796	7.77820912
JHY	146.3854414	8.298265334	45.55808199
B3GAT1	41.82441182	63.89664307	23.33462736
HSPA8	9745.087954	9584.49646	7197.065782
P2RX3	4.402569665	6.638612267	7.77820912
VWA5A	354.406858	29.04392867	125.5625187
DNAJC4	222.3297681	175.9232251	402.2445288
SIAE	361.0107125	161.816174	332.2406467
SNX15	0	0.829826533	1.111172731

LPXN	190.411138	82.98265334	98.8943731
DTX4	332.3940097	85.47213294	146.6748005
ATG2A	501.8929418	364.2938481	1640.090952
EHD1	681.2976557	250.6076131	864.4923851
OSBP	2966.231312	1640.567056	1231.179386
UNC93B1	183.8072835	203.3075007	692.2606117
PUS3	125.4732355	90.45109214	23.33462736
DCPS	105.661672	157.6670413	87.78264578
KMT5B	2714.184199	2861.241887	1773.431679
FOXRED1	127.6745203	256.4163988	227.7904099
PPP6R3	3295.323394	4178.176595	1982.332153
NRXN2	125.4732355	321.9726949	117.7843095
MS4A6A	737.4304189	274.6725825	321.1289194
MS4A4A	209.1220591	131.1125923	153.3418369
ST3GAL4	150.788011	152.6880821	167.7870824
CPT1A	913.5332055	2028.096048	2076.781835
CCND1	4386.060029	1150.139575	5686.98204
CCDC86	194.8137077	145.2196433	192.2328825
PRPF19	1193.096379	1354.276902	1362.297769
TMEM109	413.8415485	265.5444907	464.4702017
CCKBR	1.100642416	3.319306133	1.111172731
HPX	42.92505424	9.128091867	60.0033275
TRIM3	276.2612465	136.921378	322.2400921
CHORDC1	58.33404806	29.8737552	2.222345463
FOLR1	4.402569665	68.04577574	5.555863657
ANAPC15	147.4860838	368.4429808	84.44912759
FOLR3	1.100642416	22.4053164	3.333518194
PANX1	128.7751627	572.580308	253.3473828
ARHGEF1	1490.269832	887.0845642	2651.258137
APOA5	8.80513933	2.4894796	1.111172731
APOA4	2.201284833	0.829826533	0
APOC3	0	0	2.222345463
CEP164	436.9550393	245.6286539	304.4613284
RNF141	301.5760221	190.0302761	233.3462736
CEP126	358.8094277	712.8209922	367.7981741
EIF4G2	9731.880245	8595.343233	7441.523782
IL10RA	243.241974	53.10889814	111.1172731
GALNT18	166.1970049	130.2827657	122.2290005
BIRC2	856.2997999	1170.885239	946.7191672
UBE4A	1645.460412	1160.92732	976.7208309
DDX6	2960.7281	2417.284692	1582.30997
UPK2	1.100642416	1.659653067	28.89049102
CBL	679.0963709	928.5758908	322.2400921
NECTIN1	330.1927249	429.8501443	227.7904099

HIPK3	4608.389797	3155.00048	2247.902436
KIAA1549	19.81156349	593.3259714	125.5625187
FBXO3	494.1884449	502.8748792	487.8048291
PDHX	358.8094277	375.0815931	254.4585555
SLC1A2	14.30835141	23.23514293	38.8910456
COMMD9	82.54818122	95.43005134	165.564737
SLC15A3	246.5439013	115.3458881	95.5608549
CD5	58.33404806	9.9579184	7.77820912
ACCS	159.5931504	91.28091867	314.461883
SCGB2A2	3.301927249	5.808785734	13.33407278
MDK	1633.353346	5511.707835	3882.437524
AMBRA1	893.721642	674.6489716	1384.521223
MADD	1521.087819	1902.792241	1621.201015
PTPMT1	9.905781747	9.128091867	7.77820912
NAA40	127.6745203	268.0339703	124.4513459
CARS1	35.22055732	9.128091867	66.67036389
SLC22A18	3.301927249	2.4894796	12.22290005
CD81	1053.314792	722.7789106	3273.514867
SLC35F2	145.284799	136.0915515	187.7881916
C11orf21	4.402569665	2.4894796	0
ELMOD1	9.905781747	2.4894796	3.333518194
CALCA	3.301927249	0.829826533	3.333518194
SOX6	130.9764475	510.343318	248.9026918
C11orf58	730.8265644	1287.89078	534.4740838
PITPNM1	280.6638162	645.605043	910.050467
RPS13	440.2569665	457.2344199	372.242865
AIP	217.9271984	461.3835526	407.8003924
NUP98	2488.552503	2436.370702	2034.557271
NDUFS8	576.7366261	967.5777379	1015.611877
TCIRG1	279.5631737	377.5710727	462.2478563
CHKA	529.4090022	387.5289911	583.365684
EXPH5	1879.897247	1577.50024	1213.400623
HPS5	24.21413316	9.9579184	62.22567296
GTF2H1	11.00642416	11.61757147	38.8910456
POU2AF1	29.71734524	370.1026339	7.77820912
PTPN5	2.201284833	9.128091867	27.77931829
VWF	1070.925071	1048.900738	1666.759097
PSMD9	50.62955115	86.30195947	58.89215477
P3H3	55.03212081	84.6423064	33.33518194
PPFIBP1	1199.700234	902.0214418	1046.724713
PRPF40B	236.6381195	204.9671537	293.3496011
CD69	46.22698148	6.638612267	1.111172731
PRDM4	868.4068665	1294.529392	584.4768567
CLEC2B	223.4304105	81.32300027	34.44635467

COQ5	215.7259136	288.7796336	305.5725011
SELPLG	253.1477557	112.8564085	94.44968217
CORO1C	1222.813725	4755.735863	757.8198028
ASIC1	73.74304189	29.8737552	54.44746384
DAO	2.201284833	2.4894796	18.88993643
CAPRIN2	1692.788036	2015.64865	2443.468836
TSPAN11	25.31477557	26.55444907	6.667036389
KCTD10	444.6595362	326.1218276	353.3529286
SLC11A2	724.2227099	438.1484096	700.0388208
MLEC	1308.663833	1708.612832	1564.531206
MVK	94.6552478	204.1373272	170.0094279
CSRNP2	292.7708827	297.0778989	466.6925472
CAMKK2	1339.481821	394.9974299	1254.514014
BIN2	215.7259136	80.49317374	80.00443666
IL23A	4.402569665	0.829826533	0
ATP5F1B	1929.426156	2642.997509	3260.180794
PTGES3	679.0963709	848.0827171	188.8993643
SYT10	40.7237694	7.4684388	10.00055458
BCL7A	101.2591023	180.9021843	134.4519005
RSRC2	1812.75806	1968.348537	967.8314491
CYP27B1	19.81156349	6.638612267	2.222345463
MYF6	2.201284833	0.829826533	3.333518194
LIN7A	26.41541799	297.9077255	68.89270935
KRT18	1580.52251	880.4459519	753.3751119
ACSS3	206.9207743	108.7072759	180.0099825
TNS2	1632.252703	629.0085123	1791.210443
GLI1	210.2227015	9.128091867	68.89270935
PPM1H	603.1520441	401.6360421	321.1289194
METAP2	1173.284816	1547.626485	852.269485
LTA4H	1354.890814	1154.288708	1331.184932
ELK3	534.9122143	238.9900416	363.3534832
SLC6A12	7.704496914	11.61757147	178.8988098
WNT5B	78.14561156	13.27722453	173.3429461
MAGOHB	128.7751627	336.9095725	105.5614095
TRPV4	122.1713082	62.23699	320.0177467
ITFG2	348.903646	199.9881945	355.5752741
FOXM1	126.5738779	1993.243333	70.00388208
PRR4	0	0.829826533	0
PRMT8	3.301927249	53.93872467	21.1122819
PARP11	311.4818038	121.9845004	267.7926283
ARPC3	222.3297681	473.001124	250.0138646
GPN3	115.5674537	319.4832153	197.7887462
VPS29	1821.563199	2798.175071	958.9420672
FGF6	1.100642416	1.659653067	0

MYL2	3.301927249	0.829826533	7.77820912
RAD51AP	33.01927249	333.5902664	11.11172731
CUX2	608.6552562	16.59653067	192.2328825
SH2B3	104.5610295	145.2196433	143.3412824
AKAP3	28.61670282	41.49132667	110.0061004
KCNA1	2.201284833	2.4894796	10.00055458
DUSP16	1.100642416	0.829826533	0
CREBL2	182.7066411	273.0129295	131.1183823
ACAD10	389.6274154	459.7238995	1052.280577
ALDH2	497.4903722	68.87560227	420.0232925
CDKN1B	539.314784	1167.565932	431.1350198
GPRC5D	3.301927249	1.659653067	22.22345463
NAA25	897.0235693	1406.555974	850.0471396
GSG1	6.603854498	5.808785734	8.889381852
SCNN1A	1083.032138	4433.763168	360.019965
LTBR	797.9657518	337.7393991	776.7097393
OGFOD2	4.402569665	3.319306133	8.889381852
CDK2AP1	269.657392	279.6515417	307.7948466
OAS3	274.0599617	440.6378892	443.3579198
OAS2	141.9828717	56.42820427	21.1122819
ART4	39.62312699	2.4894796	5.555863657
MGP	5303.995804	1077.11484	2189.010281
RASAL1	22.01284833	168.4547863	20.00110917
ARHGDIB	877.2120058	268.0339703	290.0160829
GTF2H3	154.0899383	207.4566333	191.1217098
EIF2B1	585.5417655	551.8346447	522.2511838
DDX55	242.1413316	276.3322356	232.2351009
SLC38A1	1545.301952	2998.163265	104.4502368
RERGL	31.91863007	151.0284291	34.44635467
ENDOU	12.10706658	3.319306133	53.33629111
SPRING1	173.9015018	329.4411337	534.4740838
VDR	89.15203572	24.06496947	4.444690926
FZD10	27.51606041	10.78774493	12.22290005
RFC5	183.8072835	877.9564723	201.1222644
STX2	156.2912231	215.7548987	31.11283648
ADGRD1	375.319064	97.91953094	302.238983
COPZ1	569.0321292	350.1867971	472.2484109
TBC1D30	11.00642416	9.128091867	0
CAND1	1912.91652	2247.170252	1598.977561
IL26	6.603854498	0	0
IFNG	4.402569665	4.149132667	0
RAB5B	937.7473387	517.8117568	491.1383473
MDM1	318.0856583	252.2672661	193.3440553
NUP107	723.1220675	931.895197	307.7948466

CNOT2	1797.349066	1016.537503	532.2517384
TIMELESS	234.4368347	1692.016302	303.3501557
CPSF6	1624.548206	1581.649373	1026.723604
KRR1	1325.173469	1564.223015	651.1472206
MRPL51	418.2441182	1083.753453	497.8053837
GAPDH	1360.394027	3975.698921	1393.410605
NOP2	9.905781747	4.9789592	0
CHD4	30.81798766	126.9634596	25.55697282
ACRBP	69.34047223	39.00184707	144.4524551
BLTP3B	2108.83087	2790.706632	1391.18826
COPS7A	301.5760221	216.5847252	606.7003114
ING4	290.5695979	317.8235623	498.9165564
GNB3	41.82441182	18.25618373	14.44524551
CDCA3	27.51606041	273.842756	24.44580009
CHPT1	922.3383449	399.9763891	2110.117017
USP5	780.3554732	1176.694024	1433.412824
TPI1	450.1627483	1561.733536	641.146666
GNPTAB	3534.162799	3097.742449	12742.92888
SPSB2	38.52248457	50.61941854	153.3418369
ENO2	150.788011	1288.720606	385.5769378
ATN1	4323.323411	2131.824364	5183.620792
C12orf57	544.8179961	779.2071148	463.359029
PTPN6	322.488228	293.7585928	307.7948466
LPCAT3	1044.509653	324.4621745	986.7213855
NT5DC3	1055.516077	945.1724215	281.1267011
SLCO1B3	2.201284833	0	0
APOBEC1	5.503212081	0.829826533	2.222345463
NANOG	6.603854498	0.829826533	12.22290005
SUDS3	620.7623228	965.9180848	468.9148927
GOLT1B	144.1841565	630.6681654	145.5636278
LDHB	12.10706658	36.51236747	12.22290005
PRKAB1	352.2055732	295.4182459	332.2406467
CMAS	469.9743118	1501.986025	395.5774924
HCFC2	593.2462624	473.001124	395.5774924
ST8SIA1	194.8137077	14.10705107	203.3446099
CLEC4A	5.503212081	1.659653067	1.111172731
C2CD5	1456.149917	2474.542722	1615.645152
AICDA	1.100642416	0.829826533	15.55641824
RAB35	204.7194894	274.6725825	251.1250373
PHC1	800.1670366	1508.624638	2342.352118
COX6A1	95.75589022	263.0550111	120.006655
RFX4	11.00642416	20.74566333	21.1122819
RIC8B	396.2312699	647.264696	270.0149737
SRSF9	941.0492659	1694.505781	1651.202679

DDX12B	19.81156349	121.9845004	60.0033275
FGFR1OP2	400.6338395	604.1137163	250.0138646
KLRB1	35.22055732	4.9789592	1.111172731
COL12A1	13808.65975	2138.462976	1878.993089
BTN3A3	461.1691724	64.7264696	330.0183012
TDP2	613.0578259	950.1513807	594.4774113
FRK	152.9892959	38.17202053	55.55863657
DSE	462.2698148	321.9726949	380.0210742
RWDD1	294.9721676	374.2517665	105.5614095
RSPH4A	25.31477557	40.66150013	58.89215477
MAK	132.07709	388.3588176	13.33407278
TMEM14C	35.22055732	64.7264696	2.222345463
PAK1IP1	11.00642416	126.9634596	11.11172731
GCNT2	4.402569665	12.447398	16.66759097
SMIM8	198.1156349	156.0073883	40.00221833
NEDD9	2138.548215	424.8711851	1440.07986
CEP85L	320.2869431	858.0406355	92.22733671
ADTRP	27.51606041	4.149132667	6.667036389
ASF1A	156.2912231	227.3724701	151.1194915
MCM9	518.4025781	372.5921135	425.5791561
FAM184A	348.903646	175.9232251	114.4507913
RNGTT	282.865101	473.8309506	274.4596647
MAN1A1	1108.346913	216.5847252	800.0443666
GABRR2	12.10706658	10.78774493	62.22567296
SERINC1	1910.715235	1208.227433	1642.313297
HDDC2	191.5117804	142.7301637	175.5652916
TPD52L1	123.2719506	66.38612267	42.22456379
HINT3	110.0642416	120.3248473	133.3407278
NCOA7	495.2890873	522.790716	464.4702017
RIPOR2	198.1156349	224.053164	554.475193
SASH1	1205.203446	1094.541198	1367.853632
UST	221.2291257	112.8564085	183.3435007
ULBP1	5.503212081	108.7072759	12.22290005
FBXO5	274.0599617	1750.933985	125.5625187
MTRF1L	126.5738779	209.1162864	58.89215477
PPARD	562.4282747	287.1199805	557.8087112
OPRM1	12.10706658	2.4894796	53.33629111
FANCE	26.41541799	214.9250721	86.67147305
TULP1	3.301927249	1.659653067	15.55641824
SLC26A8	11.00642416	7.4684388	28.89049102
MAPK14	569.0321292	800.7826047	775.5985665
RHAG	31.91863007	4.149132667	6.667036389
KCTD20	509.5974387	747.6737066	531.1405656
STK38	1127.057834	1210.716912	761.153321

SRSF3	751.7387703	1672.930291	811.1560939
MRPL18	238.8394043	745.184227	277.7931829
IL17A	0	12.447398	0
IL17F	4.402569665	0	12.22290005
MCM3	487.5845904	4642.049628	543.3634657
RNF8	197.0149925	331.1007868	181.1211552
PHACTR1	60.5353329	222.3935109	48.89160018
MDGA1	280.6638162	38.17202053	552.2528475
CILK1	1100.642416	1187.481769	1343.407832
FBXO9	859.6017271	914.4688398	1745.652361
CD83	68.23982981	131.9424188	136.674246
MDN1	3798.316979	2848.794489	3436.857258
GLP1R	34.11991491	5.808785734	37.77987287
SAYSD1	247.6445437	258.0760519	182.232328
BMP5	271.8586768	214.0952456	478.9154472
BACH2	84.74946605	15.76670413	91.11616398
RBM24	61.63597531	10.78774493	2.222345463
CAP2	507.3961539	85.47213294	140.0077642
TREML2	1.100642416	4.149132667	13.33407278
ZNF451	1838.072835	2135.14367	1052.280577
BAG2	187.1092108	152.6880821	98.8943731
RAB23	668.0899467	512.0029711	191.1217098
TSPO2	0	0.829826533	5.555863657
FHL5	8.80513933	25.72462253	40.00221833
GPR63	63.83726015	34.8527144	62.22567296
KHDRBS2	14.30835141	292.0989397	41.11339106
FBXL4	576.7366261	426.5308382	503.3612473
CCNC	425.9486151	326.9516541	308.9060193
PRDM13	11.00642416	2.4894796	13.33407278
E2F3	147.4860838	575.0697876	220.0122008
PTP4A1	0	2.4894796	0
SIM1	6.603854498	0	27.77931829
ASCC3	1819.361914	1971.667843	1047.835886
HDGFL1	4.402569665	3.319306133	35.55752741
BVES	106.7623144	72.1949084	24.44580009
COL9A1	17.61027866	9.128091867	30.00166375
MED23	1463.854414	790.8246863	897.827567
WASF1	212.4239863	362.6341951	178.8988098
GPLD1	68.23982981	59.7475104	151.1194915
ALDH5A1	263.0535375	291.2691132	343.352374
CRYBG1	4914.368389	241.4795212	1213.400623
VNN1	17.61027866	14.9368776	5.555863657
VNN2	203.618847	137.7512045	91.11616398
ACOT13	166.1970049	160.1565209	67.78153662

SMAP1	384.1242033	510.343318	406.6892197
RPS12	216.826556	201.6478476	131.1183823
C6orf62	1207.404731	1579.159893	1885.660125
B3GAT2	9.905781747	9.9579184	14.44524551
GMNN	148.5867262	487.1081751	342.2412013
EYA4	417.1434758	21.57548987	3.333518194
SOBP	599.8501169	237.3303885	415.5786016
NR2E1	5.503212081	0.829826533	0
SNX3	1535.396171	1414.024413	1231.179386
SLC17A2	5.503212081	5.808785734	11.11172731
HBS1L	1768.732363	3285.283246	1371.187151
TRIM38	259.7516102	316.1639092	104.4502368
PEX7	236.6381195	229.8619497	396.6886651
ZBTB24	599.8501169	546.8556855	245.5691736
FIG4	455.6659603	735.2263086	656.7030843
PERP	698.9079343	2323.514293	942.2744763
ARFGEF3	5146.603939	1326.0628	10350.57399
SLC16A10	16.50963624	102.0686636	107.7837549
HECA	211.3233439	473.8309506	421.1344652
ADGRG6	274.0599617	123.6441535	1641.202124
PHACTR2	681.2976557	312.8446031	385.5769378
EPM2A	163.99572	116.1757147	152.2306642
CCR6	1.100642416	2.4894796	0
UNC93A	6.603854498	3.319306133	5.555863657
SLC22A2	7.704496914	5.808785734	116.6731368
PHF1	69.34047223	7.4684388	30.00166375
CUTA	45.12633907	9.9579184	7.77820912
PACRG	7.704496914	5.808785734	25.55697282
QKI	956.4582598	300.3972051	628.923766
C6orf118	6.603854498	57.2580308	57.78098203
PDE10A	364.3126398	219.9040313	1122.284459
MDFI	17.61027866	18.25618373	35.55752741
TFEB	170.5995745	233.1812559	95.5608549
SMOC2	1307.563191	574.2399611	335.5741649
CCND3	134.2783748	195.8390619	193.3440553
BYSL	39.62312699	162.6460005	83.33795486
FAM120B	81.44753881	6.638612267	12.22290005
TBP	468.8736693	557.6434304	611.1450023
GUCA1B	13.207709	9.128091867	58.89215477
PRPH2	36.32119974	14.9368776	56.6698093
BICRAL	1852.381187	1661.31272	1311.183823
PPP2R5D	346.7023611	439.8080627	467.8037199
MRPL2	90.25267814	34.02288787	46.66925472
PTK7	1166.680961	1148.479922	4251.34687

SRF	1163.379034	741.8649208	713.3728936
CUL9	816.6766729	762.6105842	2087.893562
DNPH1	161.7944352	104.5581432	148.897146
DUSP22	205.8201318	185.0513169	232.2351009
EXOC2	778.1541883	1456.345566	1142.285568
COX7A2	350.0042884	983.344442	428.9126743
TMEM30A	1182.089955	1467.963138	898.9387397
GMDS	611.9571835	938.5338092	631.1461115
SENP6	2349.871559	1566.712495	897.827567
IMPG1	22.01284833	5.808785734	0
VEGFA	507.3961539	570.0908284	240.01331
PRPF4B	2240.90796	1741.805894	828.9348577
TTK	50.62955115	853.8915028	20.00110917
SLC29A1	279.5631737	285.4603275	102.2278913
CCN6	5.503212081	1.659653067	0
BTN2A1	23.11349074	0	31.11283648
LAMA4	1892.004314	1278.762688	1482.304424
TENT5A	332.3940097	727.7578698	628.923766
CLIC5	36.32119974	18.25618373	45.55808199
FBRSL1	746.2355583	702.8630738	876.7152851
ENPP5	730.8265644	538.5574202	3046.83563
LY86	16.50963624	14.9368776	16.66759097
PRSS16	6.603854498	63.06681654	10.00055458
MEP1A	16.50963624	5.808785734	21.1122819
TBX18	2.201284833	11.61757147	65.55919115
ERBIN	3890.770942	2763.322356	2674.592765
PCDHB2	2.201284833	36.51236747	16.66759097
HARS2	199.2162773	188.3706231	258.9032464
NUDT12	188.2098532	155.1775617	128.8960368
CEP72	166.1970049	258.9058784	236.6797918
MAN2A1	682.3982981	1556.754577	935.6074399
SEMA5A	160.6937928	63.89664307	383.3545923
C7	1620.145637	174.263572	2120.117572
TENT4A	621.8629652	1123.585126	376.687556
GHR	127.6745203	48.12993894	77.7820912
HMGCS1	405.0364092	802.4422578	433.3573653
DAP	1644.35977	1952.581833	2110.117017
NME5	72.64239948	68.04577574	60.0033275
BRD8	745.1349158	1058.02883	1086.726931
KIF20A	35.22055732	608.262849	22.22345463
NNT	867.306224	2628.890458	987.8325582
MRPS30	314.7837311	339.3990521	252.23621
HSPA9	2975.036451	3524.273287	2485.6934
MRPS27	335.695937	497.89592	400.0221833

PFDN1	128.7751627	151.8582556	112.2284459
HBEGF	11.00642416	53.93872467	22.22345463
SLC4A9	2.201284833	4.9789592	2.222345463
LOX	203.618847	224.8829905	102.2278913
GZMK	67.13918739	3.319306133	8.889381852
CDH9	13.207709	351.8464501	6.667036389
APBB3	106.7623144	65.55629614	368.9093468
TMCO6	72.64239948	29.04392867	93.33850944
SPARC	3891.871584	3675.301716	1548.974788
IK	1036.805156	741.0350943	383.3545923
HMGCR	464.4710997	692.0753288	777.820912
CERT1	762.7451945	605.7733694	693.3717844
FAF2	1034.603871	1154.288708	603.3667932
HAND1	4.402569665	4.149132667	0
PCDHB3	0	0.829826533	0
PCDHB5	1.100642416	0	0
PDE8B	6.603854498	4.149132667	0
CLK4	642.7751711	200.8180211	290.0160829
HAVCR1	4.402569665	1.659653067	6.667036389
GRM6	5.503212081	6.638612267	62.22567296
ITK	100.1584599	5.808785734	5.555863657
RNF130	2267.323378	1492.028107	1407.855851
THG1L	129.8758051	224.8829905	64.44801842
ARSB	180.5053563	155.1775617	156.6753551
CLINT1	4558.860888	3861.18286	1787.876925
THBS4	742.933631	53.93872467	103.339064
CNOT6	980.6723929	2283.68262	938.9409581
IL12B	6.603854498	0.829826533	26.66814555
BTNL8	6.603854498	12.447398	40.00221833
TTC1	753.9400552	735.2263086	393.3551469
MSH3	893.721642	872.1476866	642.2578388
RASGRF2	223.4304105	103.7283167	251.1250373
GABRG2	3.301927249	6.638612267	15.55641824
CCNG1	559.1263475	391.6781237	416.6897743
POLR3G	17.61027866	33.19306133	18.88993643
DROSHA	3071.892984	3697.707033	2463.469946
CDH6	152.9892959	206.6268068	68.89270935
LMNB1	155.1905807	1896.153629	65.55919115
ARRDC3	1620.145637	1294.529392	557.8087112
GOLPH3	2068.1071	2239.701814	1968.99808
SUB1	489.7858753	824.0177476	248.9026918
NPR3	1120.45398	42.3211532	67.78153662
FAM172A	523.9057902	479.6397363	340.0188558
SLC27A6	148.5867262	9.9579184	3.333518194

TARS1	1259.134924	2564.993815	897.827567
IRX4	13.207709	9.128091867	27.77931829
LNPEP	2069.207743	1262.166157	716.7064118
PDE4D	1023.597447	1125.244779	288.9049102
RAD1	310.3811614	867.1687274	234.4574463
BRIX1	266.3554647	936.8741562	272.2373192
AGXT2	9.905781747	2.4894796	27.77931829
PRLR	272.9593192	31.53340827	275.5708374
SLC12A7	126.5738779	80.49317374	222.2345463
IL4	0	0.829826533	0
RAD50	23.11349074	34.8527144	24.44580009
IL5	3.301927249	1.659653067	0
ST8SIA4	139.7815869	335.2499195	42.22456379
GNPDA1	166.1970049	138.5810311	298.9054648
PCDH12	46.22698148	170.9442659	204.4557826
SKP1	81.44753881	93.77039827	84.44912759
NUP155	1488.068547	4650.347893	1506.750224
PPP2CA	39.62312699	73.02473494	24.44580009
FGF1	3.301927249	9.128091867	7.77820912
NR3C1	1128.158477	1560.903709	783.3767757
C5orf15	522.8051477	515.3222772	686.704748
PPWD1	654.8822377	433.999277	285.571392
LIFR	1283.349057	8882.463213	3110.172475
TRIM23	402.8351244	282.9708479	417.800947
TRAPPC1	217.9271984	171.7740924	212.2339917
C9	39.62312699	673.8191451	11.11172731
SEC24A	1538.698098	433.1694504	570.0316112
TXNDC15	703.310504	643.1155634	491.1383473
TTC33	217.9271984	172.6039189	156.6753551
RARS1	1828.167053	2603.995662	855.6030032
WWC1	2205.687402	1021.516463	471.1372381
MACROH	1089.635992	2065.438242	998.9442856
TCERG1	1807.254848	1436.429729	582.2545113
DPYSL3	1785.241999	532.7486344	498.9165564
SMAD5	1577.220583	1128.564085	735.5963482
CSNK1A1	1773.134933	1552.605444	1516.750778
HMGXB3	790.2612549	492.0871343	914.495158
ERGIC1	4832.92085	1340.999678	3624.64545
PDGFRB	2221.096396	1050.560391	1824.545625
CDX1	4.402569665	0	0
ATP6V0E1	562.4282747	653.9033083	1045.61354
BNIP1	97.95717505	152.6880821	81.11560939
STC2	62.73661773	373.42194	41.11339106
CPEB4	1803.95292	1519.412383	1193.399514

HRH2	41.82441182	54.7685512	27.77931829
DBN1	630.6681045	1222.334484	1612.311633
ZNF346	547.0192809	499.5555731	276.6820101
UNC5A	264.1541799	118.6651943	10.00055458
EHHADH	320.2869431	499.5555731	531.1405656
CNTN3	1097.340489	6.638612267	523.3623565
SMC4	552.522493	2846.305009	175.5652916
SELENOK	116.6680961	107.8774493	96.67202764
ACTR8	414.9421909	295.4182459	380.0210742
TBCCD1	277.3618889	392.5079503	330.0183012
TIMMDC1	647.1777408	826.5072272	745.5969028
CRBN	627.3661773	635.6471246	821.1566485
KNG1	34.11991491	3.319306133	28.89049102
HRG	5.503212081	1.659653067	32.22400921
BCL6	1294.355482	1405.726148	2883.493238
HGD	39.62312699	16.59653067	1351.186041
CLDN16	9.905781747	1.659653067	28.89049102
ARL6	140.8822293	149.368776	148.897146
NPHP3	111.164884	39.00184707	65.55919115
CD86	150.788011	50.61941854	26.66814555
AMOTL2	526.107075	174.263572	333.3518194
NIT2	260.8522527	326.1218276	383.3545923
FAM162A	408.3383364	976.7058298	718.9287572
OGG1	323.5888704	599.1347571	536.6964293
KPNA1	970.7666112	1280.422341	981.1655219
PCCB	701.1092192	1390.78927	1243.402286
UBE3A	1703.79446	1675.419771	1157.841986
ARMC8	927.8415569	1122.7553	910.050467
CEP70	1056.61672	1516.922903	1187.84365
RBP2	1.100642416	2.4894796	0
RBP1	123.2719506	400.8062156	126.6736914
SLC25A36	840.8908061	597.475104	391.1328015
GRK7	5.503212081	1.659653067	3.333518194
RNF7	77.04496914	94.6002248	110.0061004
TFDP2	796.8651094	773.3983291	560.0310566
XRN1	3548.47115	1735.167281	1808.989207
KAT2B	421.5460454	414.0834401	403.3557015
BCHE	19.81156349	169.2846128	21.1122819
SERPINI2	18.71092108	4.149132667	14.44524551
PDCD10	890.4197148	1297.848698	634.4796297
LRRC31	14.30835141	3.319306133	130.0072096
WNT5A	878.3126482	185.0513169	1984.554498
PFKFB4	125.4732355	187.5407965	81.11560939
COL7A1	832.0856667	282.1410213	775.5985665

FGF12	9.905781747	8.298265334	12.22290005
PRKAR2A	691.2034374	360.1447155	233.3462736
HES1	387.4261305	68.04577574	538.9187747
USP4	1117.152053	434.8291035	874.4929396
ACAP2	890.4197148	1242.25032	701.1499935
ECT2	348.903646	2919.329744	174.4541188
GNAT1	1.100642416	3.319306133	3.333518194
GNAI2	1175.486101	886.2547376	1050.058231
TFG	1795.147781	1889.515016	1201.177723
USP9Y	3780.7067	229.0321232	822.2678213
HYAL1	16.50963624	22.4053164	48.89160018
TUSC2	81.44753881	63.89664307	121.1178277
NPRL2	177.203429	136.0915515	252.23621
RPL24	1548.60388	2128.505058	1328.962587
CYB561D2	29.71734524	17.4263572	65.55919115
C3orf14	140.8822293	775.8878087	35.55752741
FXR1	1689.486109	2184.103436	795.5996757
CBLB	1568.415443	1112.797381	1473.415042
BBX	2022.980761	1586.628332	2063.447762
IFT57	856.2997999	668.8401859	1037.835331
GNB4	137.580302	150.1986025	51.11394565
HHLA2	3.301927249	2.4894796	15.55641824
IQCG	522.8051477	586.6873591	532.2517384
GBE1	494.1884449	1853.832476	366.6870014
MORC1	19.81156349	87.131786	64.44801842
UMPS	347.8030036	763.4404107	371.1316923
NCBP2	622.9636076	697.8841146	432.2461925
SNX4	396.2312699	817.3791354	395.5774924
C3orf52	75.94432672	112.8564085	201.1222644
FRMD4B	1166.680961	369.2728073	362.2423104
SLC41A3	182.7066411	421.551879	815.6007849
ROPN1B	13.207709	31.53340827	8.889381852
PLXNA1	902.5267814	1799.063924	2856.825093
ATP6V1A	700.0085768	943.5127684	1088.949277
ABTB1	136.4796596	187.5407965	648.9248752
PODXL2	289.4689555	364.2938481	562.2534021
UPK1B	3.301927249	0	100.0055458
CSPG5	341.1991491	186.71097	96.67202764
KLHL18	269.657392	165.1354801	197.7887462
SCAP	1088.53535	578.3890938	1731.207116
EFCC1	40.7237694	9.128091867	10.00055458
CFAP92	86.95075089	63.06681654	41.11339106
NEK11	336.7965794	558.473257	357.7976195
MRPL3	924.5396297	1556.754577	857.8253487

PLSCR4	220.1284833	173.4337455	316.6842285
HEMK1	197.0149925	97.0897044	256.680901
CISH	166.1970049	82.98265334	8.889381852
MAPKAPK	341.1991491	138.5810311	172.2317734
ACVR2B	139.7815869	323.632348	235.5686191
WDR48	971.8672536	951.8110338	452.2473017
COMMD2	383.0235609	516.9819303	258.9032464
GORASP1	325.7901552	164.3056536	376.687556
PEX5L	9.905781747	244.7988273	42.22456379
RRP9	125.4732355	105.3879697	132.229555
ABCC5	1997.665986	1316.934708	2872.381511
AADAC	2.201284833	0.829826533	225.5680645
ABHD14B	84.74946605	87.96161254	46.66925472
EIF1B	365.4132822	420.7220524	98.8943731
ABHD14A	1.100642416	0	0
ARHGEF2	18.71092108	5.808785734	15.55641824
KLHL24	967.4646839	1869.59918	1641.202124
PLCH1	220.1284833	877.1266458	236.6797918
VIPR1	239.9400468	61.40716347	167.7870824
DNAH1	782.556758	258.9058784	1521.195469
SSR3	967.4646839	794.1439924	686.704748
ZBTB47	490.8865177	62.23699	263.3479374
TNNC1	24.21413316	120.3248473	153.3418369
NKTR	4780.090014	1899.472935	1660.092061
CLCN2	114.4668113	165.9653067	485.5824836
FOXP1	324.6895128	220.7338579	157.7865279
EIF4G1	6697.409103	6641.931573	8149.340812
SPCS1	915.7344904	983.344442	455.5808199
NEK4	846.3940181	787.5053802	648.9248752
SLC4A3	144.1841565	92.94057174	370.0205196
INO80D	40.7237694	29.04392867	202.2334371
EEF1B2	483.1820208	40.66150013	23.33462736
ADAM23	115.5674537	79.6633472	75.55974574
DGUOK	323.5888704	472.1712975	344.4635467
MOB1A	731.9272068	976.7058298	726.7069664
KANSL3	905.8287086	731.9070024	1431.190478
LMAN2L	194.8137077	221.5636844	278.9043556
RTKN	171.7002169	234.0110824	200.0110917
TTL	294.9721676	1033.134034	331.129474
IL1A	13.207709	2.4894796	18.88993643
CCL20	13.207709	0.829826533	10.00055458
PIKFYVE	2417.010746	2814.771601	2509.028028
KCNIP3	0	1.659653067	0
FAHD2A	8.80513933	14.10705107	13.33407278

NCL	9279.516212	15258.02047	5731.428949
SLC35F5	1470.458268	1011.558544	1482.304424
ACTR3	2671.259144	3731.729921	1883.43778
STEAP3	94.6552478	128.6231127	96.67202764
EPB41L5	624.06425	1052.220044	1053.391749
TFCP2L1	126.5738779	2304.428283	14.44524551
SF3B6	649.3790256	1987.434547	626.7014205
TP53I3	58.33404806	389.1886441	140.0077642
DNAJC27	118.869381	151.8582556	103.339064
POMC	3.301927249	70.53525534	18.88993643
STAM2	1016.993593	448.9361546	708.9282027
OTOF	7.704496914	29.8737552	96.67202764
GPD2	399.5331971	768.4193699	343.352374
CENPA	4.402569665	239.8198681	6.667036389
CYTIP	152.9892959	30.70358173	15.55641824
ACVR1	376.4197064	394.9974299	618.9232114
TANC1	3355.858727	1734.337455	3616.867241
SLC30A3	4.402569665	4.149132667	106.6725822
MPV17	177.203429	180.9021843	215.5675099
GTF3C2	799.0663942	849.7423702	1472.303869
EIF2B4	528.3083598	574.2399611	524.4735292
NRBP1	941.0492659	1067.986748	1240.068768
ITGB6	145.284799	32.3632348	32.22400921
FNDC4	72.64239948	11.61757147	102.2278913
ITGA4	475.4775238	165.9653067	96.67202764
PSMD14	312.5824462	1309.46627	756.7086301
SNX17	527.2077174	560.9627366	1205.622414
ASB3	509.5974387	496.236267	607.8114841
PPM1G	1191.995737	2844.645356	1178.954268
PDE1A	50.62955115	25.72462253	541.1411202
REEP6	350.0042884	51.44924507	488.9160018
PCSK4	28.61670282	74.684388	238.9021373
GCG	5.503212081	1.659653067	3.333518194
APC2	23.11349074	39.8316736	75.55974574
IFIH1	613.0578259	216.5847252	506.6947655
RPS15	2074.710955	2264.59661	2426.801245
GCA	381.9229185	770.079023	593.3662386
INO80B	5.503212081	1.659653067	0
MOGS	400.6338395	204.9671537	558.9198839
TTC31	97.95717505	97.91953094	165.564737
NDUFS7	215.7259136	171.7740924	377.7987287
PCGF1	75.94432672	63.06681654	71.11505481
GRB14	52.83083598	221.5636844	73.33740027
CLIP4	716.518213	55.59837774	617.8120387

TLX2	0	0.829826533	0
SPTBN1	10383.46056	14059.75095	22335.68307
AUP1	362.111355	246.4584804	641.146666
RTN4	2071.409027	3691.898247	1814.54507
HTRA2	148.5867262	182.5618373	300.0166375
LOXL3	59.43469048	77.1738676	133.3407278
DOK1	55.03212081	68.04577574	93.33850944
GALNT3	2211.190614	399.1465625	4673.592508
POLE4	62.73661773	75.51421454	52.22511838
TACR1	24.21413316	7.4684388	10.00055458
CCDC88A	767.1477642	4845.357128	644.4801842
ACADL	497.4903722	18.25618373	126.6736914
EVA1A	1.100642416	19.9158368	0
MRPL19	274.0599617	418.2325728	212.2339917
LANCL1	446.860821	2130.164711	964.4979309
WDR75	977.3704657	1363.404994	672.2595025
EFEMP1	2219.995754	183.3916639	738.9298664
REG1A	2.201284833	5.808785734	0
FANCL	268.5567496	736.0561351	190.0105371
FN1	19437.34507	18917.55548	37219.84181
STAT1	3441.708836	2760.832877	2231.234845
GLS	665.8886619	1718.570751	462.2478563
PAPOLG	541.5160688	433.1694504	344.4635467
DNAH6	345.6017187	638.1366042	1180.065441
PECR	91.35332055	166.7951332	181.1211552
UNC50	562.4282747	556.8136039	788.9326393
IGFBP2	810.0728184	2340.940651	3071.28143
ELMOD3	183.8072835	94.6002248	333.3518194
IGFBP5	6875.713175	6754.787982	4046.891088
USP34	7186.094336	6473.476787	5993.665713
EFHD1	125.4732355	49.789592	160.0088733
KCNJ13	13.207709	3.319306133	26.66814555
CCT4	1428.633856	2454.626886	1110.061559
GGCX	434.7537544	429.0203178	725.5957936
NEU2	3.301927249	0.829826533	0
EHBP1	746.2355583	573.4101346	646.7025297
OTX1	156.2912231	39.00184707	32.22400921
TXNDC9	267.4561072	472.1712975	282.2378738
COQ10B	211.3233439	397.4869095	133.3407278
GNLY	8.80513933	3.319306133	23.33462736
SF3B1	10127.01087	10677.378	10231.67851
ST3GAL5	184.9079259	177.5828781	173.3429461
CHST10	219.0278408	438.1484096	314.461883
PDCL3	278.4625313	895.3828295	411.1339106

MOB4	33.01927249	80.49317374	6.667036389
HSPE1	20.91220591	41.49132667	11.11172731
KDM3A	985.0749626	2103.610262	1234.512905
PLCD4	15.40899383	58.08785734	151.1194915
CHMP3	92.45396297	180.9021843	25.55697282
ZNF142	1326.274112	1544.307179	1811.211552
IL1R2	14.30835141	134.4318984	31.11283648
PRKAG3	4.402569665	5.808785734	7.77820912
SMYD1	8.80513933	5.808785734	6.667036389
IL1R1	7904.813834	616.5611143	1453.413933
WNT6	3.301927249	4.149132667	115.5619641
IL1RL2	45.12633907	4.9789592	1.111172731
IL1RL1	112.2655265	16.59653067	1.111172731
IL18R1	126.5738779	48.95976547	12.22290005
IL18RAP	48.42826632	53.93872467	0
SLC9A2	844.1927333	99.579184	445.5802653
FHL2	439.1563241	85.47213294	54.44746384
MLPH	1850.179902	140.2406841	1827.879143
CNPPD1	436.9550393	381.7202053	577.8098203
UXS1	318.0856583	307.8656439	305.5725011
ABCB6	19.81156349	9.9579184	18.88993643
STK16	88.0513933	115.3458881	170.0094279
SLC5A7	5.503212081	2.4894796	10.00055458
HDLBP	16241.07949	10381.95976	14656.36833
PPP1R7	342.2997915	495.4064404	402.2445288
PASK	256.449683	958.449646	416.6897743
STK25	523.9057902	916.1284928	1183.398959
TPO	4.402569665	0.829826533	6.667036389
PROC	4.402569665	9.9579184	1.111172731
ID2	288.3683131	682.947237	185.5658462
TAF1B	213.5246288	445.6168484	325.5736103
HPCAL1	151.8886534	488.7678282	188.8993643
ODC1	4332.128551	2708.553805	6502.582824
BIRC6	11063.65757	12708.79336	12260.67992
NOL10	803.4689639	1182.50281	757.8198028
PLEKHB2	264.1541799	220.7338579	180.0099825
GORASP2	3473.627466	2946.71402	1423.412269
STRN	1203.002161	1706.953179	1013.389531
CEBPZ	1180.989313	1985.774894	701.1499935
PRKD3	862.9036544	1216.525698	674.481848
DCAF17	280.6638162	614.9014612	338.9076831
QPCT	102.3597447	126.9634596	38.8910456
RAB3GAP	1872.19275	1037.283167	1077.837549
SLC25A12	11.00642416	5.808785734	1.111172731

RMDN2	182.7066411	93.77039827	91.11616398
DLX2	6.603854498	8.298265334	13.33407278
LCT	6.603854498	53.10889814	12.22290005
DARS1	598.7494745	860.5301151	644.4801842
SRSF7	1067.623144	1421.492852	978.9431764
SDC1	399.5331971	2076.225986	408.9115652
PLCL1	648.2783832	145.2196433	235.5686191
SLC1A4	137.580302	295.4182459	146.6748005
SOS1	4488.419774	4499.319464	2446.802355
KYNU	94.6552478	71.36508187	44.44690926
WIPF1	1286.650985	643.1155634	597.8109295
ORC2	764.9464793	666.3507063	320.0177467
COX7A2L	559.1263475	887.9143907	561.1422294
PNO1	111.164884	211.605766	68.89270935
ORC4	390.7280578	488.7678282	165.564737
PLEK	103.4603871	41.49132667	61.11450023
RND3	728.6252796	492.0871343	415.5786016
ATF2	2228.800893	2271.235222	1462.303315
THADA	2292.638153	2379.942498	2824.601083
AAK1	2079.113524	879.6161254	1603.422251
TRAK2	1791.845854	1035.623514	1356.741905
C2orf42	183.8072835	141.9003372	188.8993643
TIA1	1335.079251	1010.728718	1200.06655
PCYOX1	1445.143493	881.2757784	1258.958705
KISS1R	5.503212081	9.9579184	4.444690926
EPAS1	1820.462557	1279.592514	1516.750778
ARID3A	97.95717505	106.2177963	46.66925472
SUMO1	289.4689555	399.1465625	133.3407278
CD207	12.10706658	29.04392867	58.89215477
GRIN3B	3.301927249	1.659653067	17.7787637
VAX2	4.402569665	29.04392867	26.66814555
ATP6V1B1	0	3.319306133	4.444690926
NFE2L2	2862.770925	3237.983133	3552.419222
MSH6	1549.704522	9928.874472	1386.743569
PLEKHA3	602.0514017	575.0697876	526.6958747
SPR	58.33404806	49.789592	38.8910456
EPHA4	675.7944436	1033.963861	363.3534832
PARD3B	1034.603871	186.71097	1326.740241
FARSB	991.6788171	1735.167281	612.256175
BCL9	1732.411163	1911.920333	2375.6873
PRRX1	533.8115719	189.2004496	66.67036389
DHCR24	2372.98505	882.105605	1005.611322
DNAJC16	767.1477642	475.4906036	828.9348577
MARK1	703.310504	738.5456147	281.1267011

TNR	5.503212081	94.6002248	40.00221833
MORN1	114.4668113	107.0476228	517.8064929
GPX7	64.93790256	64.7264696	22.22345463
CACYBP	408.3383364	2622.251845	502.2500746
SCP2	936.6466963	610.7523286	1288.960368
TPSG1	8.80513933	0	17.7787637
PAPPA2	6.603854498	12.447398	626.7014205
RALGPS2	530.5096447	609.922502	592.2550659
ANGPTL1	101.2591023	19.08601027	27.77931829
CEP104	624.06425	565.9416958	634.4796297
FAM20B	423.7473303	1549.286138	830.0460304
TCEANC2	91.35332055	46.47028587	56.6698093
TMEM59	1558.509661	737.7157882	4790.265645
LRRC42	305.9785917	472.1712975	686.704748
WRAP73	74.84368431	224.053164	345.5747195
NPHS2	5.503212081	1.659653067	3.333518194
MRPL37	859.6017271	665.5208798	788.9326393
ICMT	187.1092108	634.817298	305.5725011
RPL22	213.5246288	265.5444907	162.2312188
CHD5	18.71092108	487.9380016	181.1211552
QSOX1	401.7344819	1139.35183	3115.728339
STXBP3	814.4753881	1126.074606	798.9331939
PHF13	81.44753881	376.7412461	181.1211552
ERRFI1	657.0835225	2169.166558	725.5957936
PARK7	670.2912315	2198.210487	1075.615204
ELAPOR1	3735.580361	190.8601027	438.9132289
OPRD1	4.402569665	221.5636844	6.667036389
AMPD2	424.8479727	282.9708479	477.8042745
SRSF4	1559.610304	1718.570751	1380.076532
MECR	104.5610295	95.43005134	227.7904099
KCNC4	132.07709	708.6718595	365.5758286
EDEM3	1770.933648	1130.223738	1170.064886
WDR77	119.9700234	132.7722453	291.1272556
ATP5PB	1167.781604	1516.922903	861.1588669
RAP1A	455.6659603	355.9955828	266.6814555
HDAC1	849.6959454	1389.959443	1445.635724
CAPZA1	849.6959454	1296.189045	620.0343841
S100PBP	368.7152095	642.2857368	481.1377927
RNF19B	379.7216336	625.6892062	566.698093
TRIM62	166.1970049	229.0321232	754.4862846
ASH1L	11262.87385	8256.774007	9651.646345
DLGAP3	4.402569665	137.7512045	371.1316923
SFPQ	5162.012932	5944.877285	4668.036645
GON4L	2893.588912	2108.589221	3112.394821

ARHGEF2	727.5246372	877.9564723	607.8114841
LAMTOR2	208.0214167	416.5729197	274.4596647
MEF2D	0	0.829826533	0
DOCK7	2232.10282	3012.270316	2524.584446
SRM	347.8030036	1029.814728	627.8125933
DLEU2L	4.402569665	27.3842756	1.111172731
FBXO2	17.61027866	9.9579184	33.33518194
FBXO6	34.11991491	9.128091867	80.00443666
C1orf21	844.1927333	318.6533888	185.5658462
SWT1	325.7901552	367.6131543	317.7954012
MAD2L2	114.4668113	644.7752164	383.3545923
DNAJC6	114.4668113	985.0040951	255.5697282
LEPR	1040.107083	1262.166157	4798.043854
IVNS1ABI	1046.710938	4042.914871	1138.95205
KIAA2013	286.1670282	585.027706	704.4835117
MFN2	714.3169282	1249.718759	1324.517896
PRG4	34.11991491	5.808785734	666.7036389
MIIP	51.73019357	116.1757147	227.7904099
SMG7	2611.824454	3152.511	2372.353782
NCF2	191.5117804	151.0284291	95.5608549
PDC	3.301927249	1.659653067	0
SLC35D1	197.0149925	136.921378	206.678128
PLA2G4A	375.319064	30.70358173	34.44635467
GADD45A	143.0835141	170.9442659	37.77987287
PRAMEF1	1.100642416	1.659653067	10.00055458
PRAMEF1	5.503212081	0.829826533	12.22290005
WLS	1384.60816	462.2133791	1483.415596
PRDM2	2993.747372	2534.290233	2082.337699
RGS2	466.6723845	241.4795212	23.33462736
RPE65	5.503212081	2.4894796	6.667036389
RO60	1364.796596	2539.269192	1366.74246
AMPD1	8.80513933	11.61757147	46.66925472
UCHL5	454.5653179	891.2336968	285.571392
BCAS2	315.8843735	507.8538384	344.4635467
SRSF11	1583.824437	1026.495422	1044.502368
CTH	127.6745203	49.789592	56.6698093
AGMAT	15.40899383	17.4263572	21.1122819
OLFML3	465.5717421	123.6441535	795.5996757
TNNI3K	3.301927249	8.298265334	2.222345463
CFHR3	2.201284833	15.76670413	0
PLEKHM2	657.0835225	612.4119816	1532.307197
CRYZ	398.4325547	435.65893	507.8059383
PHTF1	272.9593192	1718.570751	463.359029
ZBTB17	291.6702403	285.4603275	415.5786016

CD58	237.7387619	250.6076131	96.67202764
TFAP2E	24.21413316	14.10705107	43.33573653
CD2	189.3104956	5.808785734	18.88993643
TTF2	209.1220591	631.4979919	675.5930207
NR5A2	42.92505424	14.9368776	68.89270935
KIF21B	198.1156349	288.7796336	205.5669553
TMEM9	325.7901552	721.949084	627.8125933
ADPRS	68.23982981	160.1565209	177.787637
MAP7D1	515.1006508	623.1997266	558.9198839
WARS2	208.0214167	395.8272564	246.6803464
HAO2	8.80513933	6.638612267	17.7787637
OSCP1	275.1606041	167.6249597	367.7981741
MRPS15	261.9528951	497.89592	352.2417559
EXOC8	752.8394127	477.1502567	573.3651294
GNPAT	707.7130737	981.684789	757.8198028
TSNAX	336.7965794	394.9974299	257.7920737
C1orf109	203.618847	222.3935109	296.6831193
RRAGC	19.81156349	35.68254093	8.889381852
NID1	945.4518356	2112.738354	3601.310823
LGALS8	1517.785892	429.0203178	216.6786826
NT5C1A	4.402569665	30.70358173	12.22290005
HPCAL4	2.201284833	106.2177963	1.111172731
MTR	1492.471117	786.6755536	1083.393413
BMP8B	74.84368431	233.1812559	77.7820912
MYCL	60.5353329	739.3754412	53.33629111
SIPA1L2	975.1691808	4198.092432	1322.29555
ZP4	4.402569665	0.829826533	0
RLF	1586.025722	2052.161017	1180.065441
KMO	30.81798766	9.9579184	16.66759097
ZNF684	77.04496914	131.9424188	65.55919115
KCNQ4	52.83083598	13.27722453	27.77931829
RIMS3	28.61670282	117.0055412	120.006655
AKT3	660.3854498	89.6212656	131.1183823
ETV3	693.4047223	468.0221648	383.3545923
ACADM	745.1349158	1753.423465	545.5858111
ST6GALN	73.74304189	16.59653067	930.0515762
SLAMF1	75.94432672	4.149132667	20.00110917
CD48	112.2655265	8.298265334	42.22456379
ADGRL2	3581.490423	1676.249597	3235.734994
PADI2	5.503212081	18.25618373	0
SDHB	52.83083598	3.319306133	2.222345463
MFAP2	128.7751627	9.128091867	7.77820912
RPF1	646.0770984	2199.040313	438.9132289
KDM5B	3880.86516	3157.489959	3471.303613

UAP1	647.1777408	676.3086247	441.1355744
ACTL8	5.503212081	2.4894796	11.11172731
CTBS	188.2098532	288.7796336	342.2412013
RGS4	85.85010847	20.74566333	26.66814555
KLHL12	753.9400552	544.3662059	616.7008659
IGSF21	69.34047223	553.4942978	265.5702828
SSX2IP	408.3383364	3400.629134	314.461883
ZNHIT6	462.2698148	448.106328	168.8982552
PLA2G2D	7.704496914	0.829826533	11.11172731
RBBP5	685.7002254	771.738676	536.6964293
GBP3	691.2034374	98.74935747	307.7948466
GBP1	517.3019357	83.81247987	143.3412824
PINK1-AS	139.7815869	97.91953094	170.0094279
KIF17	52.83083598	32.3632348	37.77987287
GPR89A	96.85653263	233.1812559	103.339064
CDK18	172.8008594	459.7238995	196.6775735
RAB29	193.7130653	78.00369414	201.1222644
CD160	2.201284833	1.659653067	4.444690926
ECE1	2444.526807	2248.000079	4732.484663
HMGCL	348.903646	442.2975423	525.584702
GALE	45.12633907	150.1986025	152.2306642
CR2	30.81798766	10.78774493	55.55863657
CD46	3068.591057	1517.75273	2371.242609
PRPF3	909.1306359	887.0845642	695.5941299
APH1A	316.9850159	427.3606647	890.0493579
P3H1	384.1242033	408.2746544	963.3867582
SLC2A1	300.4753796	450.5958076	950.0526854
EBNA1BP	598.7494745	552.6644712	813.3784394
CDC20	22.01284833	263.0550111	12.22290005
MPL	26.41541799	7.4684388	31.11283648
ARTN	9.905781747	3.319306133	14.44524551
IPO13	309.280519	141.9003372	750.0415937
ATP6V0B	224.5310529	252.2672661	634.4796297
B4GALT2	280.6638162	214.9250721	228.9015827
ERI3	344.5010763	320.3130419	667.8148116
PTCH2	69.34047223	17.4263572	95.5608549
AKR1A1	434.7537544	332.7604399	817.8231303
PRDX1	773.7516187	769.2491964	3007.944584
PIK3R3	99.05781747	130.2827657	25.55697282
TSPAN1	1218.411155	15.76670413	411.1339106
BLZF1	388.526773	380.8903788	313.3507103
CCDC181	31.91863007	4.9789592	25.55697282
SLC19A2	496.3897298	279.6515417	228.9015827
FAAH	536.0128567	61.40716347	571.142784

NSUN4	414.9421909	238.9900416	404.4668742
TMED5	545.9186385	825.6774007	658.9254297
MROH9	15.40899383	9.128091867	10.00055458
DR1	417.1434758	590.8364918	150.0083187
FMO6P	0	0.829826533	0
CNN3	2614.025739	3059.570429	6277.01476
PRRC2C	14134.44991	12920.39912	7074.836781
F3	244.3426164	243.9690008	1785.654579
ABCD3	729.725922	1598.245903	736.7075209
VAMP4	149.6873686	106.2177963	37.77987287
DPH5	243.241974	283.8006744	121.1178277
FASLG	16.50963624	2.4894796	12.22290005
PTBP2	1069.824429	1401.577015	498.9165564
TNFSF4	14.30835141	5.808785734	5.555863657
PRDX6	693.4047223	1034.793687	1511.194915
DARS2	337.8972218	2145.931415	561.1422294
HSD11B1	55.03212081	1.659653067	25.55697282
IRF6	41.82441182	10.78774493	12.22290005
UTP25	595.4475472	600.7944102	391.1328015
PLPPR5	6.603854498	4.149132667	7.77820912
PLPPR4	79.24625397	20.74566333	66.67036389
SERPINC1	15.40899383	3.319306133	10.00055458
RCAN3	566.8308444	322.8025215	1590.088179
SYF2	1654.265552	1652.184628	717.8175845
RSRP1	1987.760204	560.9627366	2071.225971
SLC35A3	176.1027866	207.4566333	52.22511838
RCOR3	1858.985041	1243.909974	1144.507913
STMN1	502.9935842	9510.641899	460.0255108
MTFR1L	212.4239863	161.816174	466.6925472
MAN1C1	345.6017187	161.816174	1244.513459
NEK2	69.34047223	1032.304208	7.77820912
DHDDS	231.1349074	241.4795212	267.7926283
NENF	138.6809445	444.7870219	515.5841474
NSL1	819.9786001	1151.799228	542.2522929
PROX1	67.13918739	3091.103837	132.229555
ARID1A	7060.621101	6942.328778	5098.060492
CENPF	462.2698148	6933.200686	68.89270935
RPA2	253.1477557	838.1247987	314.461883
PPP1R8	817.7773153	1393.27875	725.5957936
STX12	392.9293426	258.9058784	421.1344652
MTARC2	460.06853	32.3632348	127.7848641
SLC5A9	3.301927249	0.829826533	28.89049102
OSBPL9	3331.644594	940.1934623	1426.745787
TXNDC12	42.92505424	36.51236747	72.22622754

ESYT2	1496.873686	1346.808464	987.8325582
POLR1G	99.05781747	123.6441535	87.78264578
MESD	603.1520441	511.1731446	388.910456
RCN2	669.1905891	1209.887086	333.3518194
CHRNB4	4.402569665	5.808785734	8.889381852
MUC5B	177.203429	60.57733694	151.1194915
CTSD	389.6274154	209.9461129	140.0077642
COLEC11	9.905781747	40.66150013	24.44580009
STAG1	1852.381187	3061.230082	1630.090397
A4GNT	3.301927249	0	32.22400921
STK11	691.2034374	710.3315126	892.2717033
KMT2A	5353.524713	3649.577094	2914.606075
TREH	3.301927249	1.659653067	4.444690926
IFT46	302.6766645	272.1831029	172.2317734
MMP8	4.402569665	24.06496947	33.33518194
APOA1	2.201284833	5.808785734	0
ZNF541	39.62312699	17.4263572	152.2306642
SLC8A2	26.41541799	71.36508187	22.22345463
KPTN	75.94432672	78.00369414	246.6803464
RPS25	1.100642416	0	0
KIF14	122.1713082	1852.172822	16.66759097
TNNT2	2.201284833	5.808785734	6.667036389
DDX59	803.4689639	800.7826047	555.5863657
CAMSAP2	2112.132797	2604.825488	1348.963696
ATF6	1754.424012	1804.042884	1351.186041
MREG	20.91220591	32.3632348	18.88993643
TNP1	0	1.659653067	2.222345463
FASTKD2	681.2976557	776.7176352	713.3728936
NRP2	551.4218506	612.4119816	604.4779659
CREB1	1035.704514	891.2336968	484.4713109
KLF7	403.9357668	473.001124	238.9021373
TTR	4.402569665	0.829826533	3.333518194
B4GALT6	151.8886534	92.94057174	108.8949277
C1orf54	42.92505424	36.51236747	34.44635467
CA14	2.201284833	3.319306133	42.22456379
DNAI7	233.3361923	242.3093477	178.8988098
IRAG2	126.5738779	52.2790716	74.44857301
ATP10B	9.905781747	8.298265334	17.7787637
SPCS2	272.9593192	658.8822675	297.794292
USP35	152.9892959	101.2388371	326.684783
ELOVL4	25.31477557	125.3038065	34.44635467
FILIP1	188.2098532	110.3669289	182.232328
CASP8AP2	24.21413316	75.51421454	3.333518194
HMGN3	504.0942267	1173.374718	163.3423915

UBE3D	48.42826632	73.85456147	51.11394565
CNR1	4.402569665	25.72462253	44.44690926
SPACA1	1.100642416	0.829826533	41.11339106
ANKRD13	409.4389789	290.4392867	293.3496011
SGIP1	606.4539714	92.1107452	150.0083187
PHF3	4731.661748	3563.275134	1998.999744
ZC2HC1B	0	1.659653067	8.889381852
ADGB	30.81798766	19.08601027	35.55752741
PLAGL1	716.518213	105.3879697	310.0171921
FBXO30	871.7087937	1255.527545	1556.752997
TNFAIP3	800.1670366	115.3458881	261.1255919
AKAP7	83.64882364	38.17202053	75.55974574
RAB32	44.02569665	67.2159492	105.5614095
MYB	374.2184215	807.421217	445.5802653
ALDH8A1	41.82441182	13.27722453	51.11394565
SGK1	592.14562	438.9782362	672.2595025
RNF146	396.2312699	238.9900416	323.3512648
ARG1	1.100642416	27.3842756	10.00055458
CCN2	897.0235693	404.1255217	1518.973124
TCF21	158.4925079	0	3.333518194
PMFBP1	55.03212081	73.85456147	38.8910456
FBXL5	1491.370474	863.0195947	2222.345463
MED28	260.8522527	304.5463377	456.6919926
SLC16A7	110.0642416	165.1354801	16.66759097
RXYLT1	231.1349074	217.4145517	210.0116462
ZNF430	141.9828717	179.2425312	55.55863657
VAMP8	197.0149925	287.9498071	260.0144192
DCLRE1B	97.95717505	569.2610019	82.22678213
MYL12B	1182.089955	1810.681496	1578.976451
FOXO3	607.5546138	448.106328	1455.636278
ARMC2	135.3790172	92.1107452	131.1183823
GHRH	0	0.829826533	0
RPN2	133.1777324	1282.911821	741.1522119
TGIF2	171.7002169	29.04392867	103.339064
CASQ2	18.71092108	6.638612267	36.66870014
OLFM3	4.402569665	48.95976547	0
PKD2	1379.104948	564.2820427	1466.748005
ABCG2	127.6745203	69.7054288	72.22622754
SPP1	283.9657434	2963.310551	635.5908024
STBD1	14.30835141	0.829826533	46.66925472
CCNI	5033.23777	3242.962092	7527.084083
RARRES1	471.0749542	15.76670413	151.1194915
MFSD1	978.4711081	928.5758908	1365.631287
RAB3GAP	1984.458277	1926.85721	1576.754106

EEF2KMT	49.52890873	93.77039827	116.6731368
PPL	1032.402586	396.6570829	755.5974574
UBN1	1057.717362	1004.919932	932.2739217
KLF12	350.0042884	579.2189203	347.7970649
UCHL3	42.92505424	31.53340827	5.555863657
PCDH17	112.2655265	220.7338579	25.55697282
HS1BP3	272.9593192	212.4355925	462.2478563
LDAH	104.5610295	165.1354801	138.8965914
WDR35	1289.952912	1258.017025	1267.848087
CCND2	205.8201318	24.06496947	6.667036389
FGF23	1.100642416	0	14.44524551
OTUD4P1	5.503212081	4.9789592	20.00110917
ELL2	1668.573903	320.3130419	414.4674288
GLRXP3	0	1.659653067	0
DNAH7	1188.69381	885.4249111	1397.855296
CYP20A1	482.0813783	443.9571954	675.5930207
NDUFB3	305.9785917	793.3141659	245.5691736
GTF3C3	622.9636076	1305.317137	756.7086301
SATB2	548.1199233	107.0476228	266.6814555
UBE2B	270.7580344	311.18495	146.6748005
TRPM6	80.34689639	43.15097974	116.6731368
GDA	6.603854498	114.5160616	16.66759097
KLF9	698.9079343	405.7851748	932.2739217
TJP2	30.81798766	44.8106328	1.111172731
ECRG4	57.23340565	6.638612267	67.78153662
ITGB1BP1	308.1798766	558.473257	310.0171921
CPSF3	666.9893043	1575.01076	565.5869203
PIGZ	82.54818122	52.2790716	117.7843095
SENP5	859.6017271	1620.65122	864.4923851
CCDC92	72.64239948	24.894796	92.22733671
C1orf198	321.3875856	588.3470122	605.5891386
TRIM67	9.905781747	27.3842756	24.44580009
HEATR1	2435.721667	2158.378813	1885.660125
PTBP3	1737.914375	4903.444986	2297.905209
RAD23B	2862.770925	5070.240119	2694.593874
FKBP15	1222.813725	965.0882583	1260.069877
CTNNAL1	607.5546138	2091.992691	1393.410605
ABITRAM	83.64882364	73.85456147	71.11505481
DYNC2I2	211.3233439	948.4917276	607.8114841
SET	1637.755915	4154.941453	961.1644127
PTPA	369.8158519	392.5079503	802.2667121
GLE1	374.2184215	911.1495336	624.4790751
RAB14	783.6574004	925.2565847	522.2511838
CNTRL	620.7623228	1284.571474	250.0138646

TRIM32	260.8522527	319.4832153	225.5680645
FBXW2	1327.374754	1529.370301	1062.281131
PHF19	122.1713082	470.5116444	93.33850944
NEK6	849.6959454	1253.867892	514.4729747
BSPRY	178.3040714	424.8711851	501.1389019
PPP6C	823.2805274	1637.24775	1016.723049
NDUFA8	135.3790172	482.1292159	365.5758286
HDHD3	102.3597447	98.74935747	254.4585555
RBM18	322.488228	341.0587052	258.9032464
SLC46A2	3.301927249	4.149132667	5.555863657
HSDL2	449.0621058	1033.134034	664.4812934
MAPKAP1	1461.653129	1248.059106	1607.866942
NR4A3	42.92505424	58.08785734	55.55863657
INVS	729.725922	727.7578698	844.4912759
GALNT12	232.2355498	137.7512045	707.8170299
DENND1A	660.3854498	791.6545128	2309.016936
ALG2	631.768747	398.316736	630.0349387
CSF3R	135.3790172	173.4337455	110.0061004
KDSR	428.1498999	287.9498071	441.1355744
VPS4B	851.8972302	892.8933499	570.0316112
ONECUT2	12.10706658	200.8180211	72.22622754
C19orf25	74.84368431	126.9634596	242.2356555
ZBTB45	439.1563241	353.5061032	497.8053837
YLPM1	7914.719616	5250.312477	5153.619128
DCAF4	113.3661689	100.4090105	88.89381852
PROX2	5.503212081	3.319306133	21.1122819
VSX2	2.201284833	3.319306133	10.00055458
FCF1	456.7666028	653.9033083	330.0183012
PGF	35.22055732	47.3001124	7.77820912
IFI27L2	0	4.9789592	0
BBOF1	184.9079259	117.8353677	134.4519005
NEK9	1589.327649	1024.005942	2285.682309
ACYP1	85.85010847	438.9782362	71.11505481
IFT43	200.3169198	256.4163988	332.2406467
NPC2	2246.411172	597.475104	5492.526811
DPPA5P4	0	3.319306133	0
DNAL1	157.3918655	378.4008992	198.8999189
IRF2BPL	1515.584607	2485.330467	2127.895781
ACOT2	107.8629568	282.1410213	208.9004735
LTBP2	1654.265552	1031.474381	2794.59942
AREL1	1019.194877	1020.686636	886.7158397
MLH3	2295.94008	1507.794811	1412.300542
TTLL5	2489.653146	3506.84693	1544.530097
FLVCR2	70.44111464	53.10889814	430.0238471

ABCD4	294.9721676	252.2672661	426.6903289
DLST	677.9957284	1127.734259	566.698093
PPP4R4	16.50963624	39.00184707	21.1122819
TGFB3	527.2077174	187.5407965	505.5835928
ZC2HC1C	45.12633907	56.42820427	52.22511838
SLIRP	523.9057902	1186.651943	297.794292
RBM25	1843.576047	1830.597333	1774.542852
ALDH6A1	745.1349158	571.7504815	1653.425024
GPR68	44.02569665	16.59653067	17.7787637
ESRRB	5.503212081	73.02473494	17.7787637
EIF2B2	407.237694	304.5463377	211.122819
NRDE2	744.0342734	722.7789106	940.0521308
COQ6	224.5310529	441.4677158	478.9154472
ZNF410	11.00642416	36.51236747	35.55752741
RHOQ	780.3554732	655.5629614	757.8198028
GPR75	283.9657434	144.3898168	140.0077642
SUPT7L	695.6060071	727.7578698	795.5996757
KLHL29	101.2591023	148.5389495	91.11616398
DNMT3A	593.2462624	1307.806617	906.7169489
TMEM214	708.8137161	310.3551235	873.3817669
ATAD2B	2213.391899	1601.565209	1315.628514
FKBP1B	2.201284833	6.638612267	0
ATL2	1229.417579	1019.85681	991.1660764
YPEL5	587.7430503	516.9819303	513.3618019
FAM98A	716.518213	362.6341951	541.1411202
YIPF4	335.695937	399.1465625	618.9232114
AFTPH	1333.978609	1115.286861	755.5974574
LGALSL	210.2227015	288.7796336	124.4513459
CNRIP1	49.52890873	38.17202053	23.33462736
BCL11A	249.8458285	11.61757147	4.444690926
CRIPT	122.1713082	461.3835526	167.7870824
EPCAM	2148.453997	10545.43559	1843.435561
SLC17A5	354.406858	262.2251845	363.3534832
OGFRL1	243.241974	409.9343075	183.3435007
SLF2	965.2633991	946.8320746	475.5819291
IDE	982.8736778	1026.495422	1187.84365
TECTB	2.201284833	2.4894796	1.111172731
ELOVL3	0	0.829826533	3.333518194
IFIT3	158.4925079	78.00369414	72.22622754
NKX2-3	0	1.659653067	1.111172731
IFIT2	159.5931504	90.45109214	31.11283648
GPAM	373.1177791	517.8117568	546.6969839
CUTC	160.6937928	122.8143269	100.0055458
PPP1R3C	183.8072835	14.10705107	26.66814555

PYROXD2	172.8008594	48.12993894	260.0144192
CNNM1	222.3297681	40.66150013	55.55863657
MXI1	767.1477642	1072.965708	983.3878673
SMNDC1	308.1798766	701.2034207	274.4596647
C10orf88	113.3661689	195.8390619	138.8965914
HELLS	198.1156349	1663.802199	94.44968217
PRLHR	5.503212081	510.343318	13.33407278
TCTN3	357.7087853	275.5024091	658.9254297
DENND10	291.6702403	258.9058784	521.140011
AVPI1	8.80513933	14.10705107	8.889381852
WDR11	1261.336209	2059.629456	1897.883025
ARMH3	476.5781663	440.6378892	403.3557015
KCNIP2	26.41541799	29.04392867	40.00221833
CFAP58	17.61027866	5.808785734	23.33462736
GOT1	155.1905807	306.2059908	155.5641824
CPN1	0	0.829826533	0
C10orf95	1.100642416	3.319306133	0
SFRP5	4.402569665	331.9306133	7.77820912
GNA13	690.102795	1298.678525	532.2517384
HOXB8	3.301927249	0.829826533	10.00055458
KANSL1	39.62312699	51.44924507	72.22622754
HOXB5	1.100642416	30.70358173	10.00055458
HOXB3	449.0621058	78.83352067	62.22567296
HOXB1	1.100642416	2.4894796	5.555863657
DUSP1	282.865101	602.4540632	1160.064332
PANK3	923.4389873	3159.149613	1337.851969
MSX2	70.44111464	12.447398	84.44912759
TEK	117.7687385	96.25987787	91.11616398
RCL1	355.5075005	510.343318	287.7937374
CAAP1	471.0749542	432.3396239	298.9054648
EQTN	5.503212081	2.4894796	5.555863657
MOB3B	75.94432672	62.23699	114.4507913
INSL6	2.201284833	0.829826533	8.889381852
INSL4	1.100642416	0.829826533	5.555863657
MLANA	2.201284833	2.4894796	0
CD274	47.3276239	52.2790716	178.8988098
IFNA6	0	0.829826533	0
IFNA8	5.503212081	0	0
GRIA2	59.43469048	29.04392867	5.555863657
NUP43	408.3383364	897.0424826	544.4746384
MTHFD1L	283.9657434	1183.332637	358.9087923
LRP11	52.83083598	62.23699	125.5625187
CCDC170	47.3276239	28.21410213	95.5608549
PCMT1	472.1755966	1344.318984	461.1366835

PLEKHG1	314.7837311	1076.285014	483.3601382
MYCT1	14.30835141	39.00184707	12.22290005
TASL	35.22055732	9.9579184	4.444690926
MAGEB4	2.201284833	0.829826533	0
CYSTM1	82.54818122	92.1107452	174.4541188
WDR55	195.9143501	156.0073883	301.1278102
ARAP3	180.5053563	198.3285415	136.674246
PCDHB8	1.100642416	0	0
SLC25A2	9.905781747	0	0
TNN	26.41541799	34.02288787	33.33518194
MRPS14	171.7002169	353.5061032	245.5691736
CENPL	35.22055732	179.2425312	67.78153662
TNFSF18	3.301927249	8.298265334	1.111172731
SEC16B	1.100642416	2.4894796	0
GORAB	155.1905807	180.0723577	83.33795486
GPR31	2.201284833	0	4.444690926
ACAT2	388.526773	1102.839463	253.3473828
TCP1	2609.623169	6519.117246	2102.338808
TTLL2	7.704496914	8.298265334	12.22290005
SNX19	877.2120058	509.5134915	885.604667
KCNJ5	60.5353329	6.638612267	11.11172731
MSANTD2	268.5567496	64.7264696	190.0105371
TP53AIP1	2.201284833	3.319306133	4.444690926
TEX11	12.10706658	5.808785734	0
ARR3	4.402569665	1.659653067	4.444690926
PDZD11	126.5738779	229.8619497	151.1194915
SLC10A7	220.1284833	177.5828781	377.7987287
NUDCD1	443.5588938	1249.718759	326.684783
ENY2	401.7344819	1414.024413	308.9060193
MASTL	267.4561072	1039.772646	161.1200461
KIAA1217	4120.805207	2316.045855	5763.652958
LYZL1	4.402569665	0	4.444690926
PLXDC2	1918.419732	304.5463377	1030.057122
EPC1	1649.862982	1261.336331	1157.841986
IQSEC3	6.603854498	6.638612267	6.667036389
CCDC77	92.45396297	181.7320108	90.00499125
TAF12	244.3426164	433.1694504	101.1167186
ENOX1	183.8072835	84.6423064	178.8988098
TNFSF11	2.201284833	24.06496947	0
MTRF1	141.9828717	136.0915515	71.11505481
SPART-AS	1.100642416	2.4894796	0
SOHLH2	5.503212081	0	0
DNAJC15	239.9400468	288.7796336	84.44912759
PROSER1	1785.241999	2795.685591	666.7036389

UFM1	85.85010847	70.53525534	15.55641824
WBP4	184.9079259	203.3075007	135.5630732
ELF1	1710.398315	1207.397606	911.1616398
SMAD9	548.1199233	3009.780837	307.7948466
HSPH1	1266.839421	3262.877929	796.7108484
KBTBD7	223.4304105	224.053164	325.5736103
ALG5	350.0042884	287.9498071	135.5630732
EXOSC8	193.7130653	226.5426436	94.44968217
ETF1	463.3704573	744.3544004	514.4729747
TGFBI	1135.862974	471.341471	313.3507103
FAM53C	195.9143501	117.0055412	194.455228
SIL1	286.1670282	216.5847252	316.6842285
PAIP2	996.0813867	1222.334484	331.129474
MYOT	13.207709	0	2.222345463
KDM3B	2089.019306	1536.008913	1947.885798
EGR1	1081.931495	2138.462976	2109.005844
SERP1	917.9357752	485.448522	877.8264578
PLS1	150.788011	975.0461767	482.2489654
ZFP30	256.449683	497.0660935	238.9021373
NR2C1	576.7366261	720.289431	515.5841474
UTP20	1382.406875	2446.32862	1421.189924
TMPO	939.9486235	7214.511881	790.0438121
ARL1	1383.507517	1321.913668	1006.722495
GLT8D2	140.8822293	29.8737552	130.0072096
MTERF2	303.7773069	463.0432056	203.3446099
SOCS2	659.2848074	34.02288787	261.1255919
NFYB	615.2591107	668.0103594	158.8977006
WASHC3	482.0813783	475.4906036	292.2384284
APAF1	507.3961539	839.7844518	663.3701207
DUSP4	105.661672	400.8062156	175.5652916
CLU	3470.325539	469.6818179	17949.8843
TNFRSF1(	102.3597447	53.10889814	202.2334371
SORBS3	1069.824429	640.6260838	934.4962671
PTK2B	723.1220675	185.0513169	371.1316923
CHRNA2	182.7066411	3.319306133	6.667036389
ADRA1A	160.6937928	0	28.89049102
PPP3CC	324.6895128	152.6880821	285.571392
PDLIM2	33.01927249	14.10705107	17.7787637
EPHX2	350.0042884	82.98265334	221.1233736
RNF170	283.9657434	416.5729197	263.3479374
NPPB	0	0.829826533	0
UBIAD1	104.5610295	212.4355925	254.4585555
TARDBP	1619.044994	3515.145195	1683.426688
TNFRSF8	4.402569665	5.808785734	8.889381852

PRAMEF2	1.100642416	0	0
ZNF706	607.5546138	2117.717313	393.3551469
LYPLA1	460.06853	936.8741562	237.7909645
CRISPLD1	518.4025781	98.74935747	1195.621859
COPS5	547.0192809	867.9985539	664.4812934
RDH10	488.6852328	134.4318984	1372.298323
EPX	4.402569665	7.4684388	16.66759097
AKAP1	1830.368338	1689.526822	1812.322725
COIL	400.6338395	658.052441	274.4596647
TRIM25	930.0428418	497.0660935	1186.732477
SCPEP1	744.0342734	3170.767184	1393.410605
SPOP	770.4496914	868.8283804	572.2539567
TBX2	294.9721676	173.4337455	63.33684569
SLC35B1	263.0535375	385.869338	505.5835928
TBX4	179.4047139	3.319306133	37.77987287
NACA3P	6.603854498	8.298265334	5.555863657
TEX14	46.22698148	40.66150013	81.11560939
FAM117A	260.8522527	143.5599903	335.5741649
NCAPH	74.84368431	923.5969316	16.66759097
LRAT	5.503212081	0	5.555863657
TMEM131	994.9807443	1091.221891	500.0277291
MND1	1.100642416	20.74566333	0
TRIM6	41.82441182	6.638612267	42.22456379
ABCC11	29.71734524	16.59653067	84.44912759
TENT4B	455.6659603	664.6910532	267.7926283
ADCY7	226.7323378	437.3185831	304.4613284
CEP89	514.0000084	843.1037579	585.5880295
TSHZ3	932.2441266	780.0369414	2842.379847
ECHDC2	919.0364176	364.2938481	1397.855296
PLBD1	341.1991491	141.0705107	223.345719
PRB2	1.100642416	0.829826533	12.22290005
PYROXD1	427.0492575	776.7176352	233.3462736
IAPP	4.402569665	6.638612267	5.555863657
KCNJ8	379.7216336	302.8866847	263.3479374
PSPC1	1117.152053	1176.694024	734.4851755
ZNF549	294.9721676	390.8482972	302.238983
A1BG	0	2.4894796	12.22290005
ZSCAN18	202.5182046	220.7338579	885.604667
ZNF211	391.8287002	442.2975423	427.8015016
PDZRN3	1517.785892	272.1831029	752.2639392
RGSL1	14.30835141	8.298265334	21.1122819
LHX4	1.100642416	9.128091867	21.1122819
RNF2	525.0064326	799.1229516	273.3484919
TRMT1L	569.0321292	639.7962572	483.3601382

SEC22A	177.203429	179.2425312	164.4535643
CSTA	31.91863007	4.149132667	4.444690926
DPPA4	2.201284833	0.829826533	14.44524551
POPDC2	47.3276239	7.4684388	18.88993643
B4GALT4	236.6381195	532.7486344	623.3679023
NAA50	1274.543918	2119.376966	857.8253487
CD80	25.31477557	20.74566333	8.889381852
KIF18A	44.02569665	611.5821551	24.44580009
GJA8	1.100642416	1.659653067	14.44524551
DESI2	214.6252712	620.710247	160.0088733
MAPK8IP1	230.034265	466.3625118	716.7064118
CRY2	333.4946521	180.9021843	502.2500746
PEX16	58.33404806	83.81247987	214.4563372
DEPDC7	41.82441182	6.638612267	6.667036389
CAT	826.5824546	543.5363794	1252.291668
PILRB	6.603854498	6.638612267	4.444690926
ZMYM2	3856.651027	2840.496224	2040.113135
GJB6	0	0	557.8087112
GJA3	4.402569665	2.4894796	0
TBC1D15	913.5332055	653.0734818	515.5841474
ADGRB2	46.22698148	552.6644712	177.787637
HCRTR1	0	1.659653067	11.11172731
ZCCHC17	316.9850159	348.527144	136.674246
FABP3	293.8715252	34.8527144	65.55919115
KHDRBS1	1659.768764	3735.879053	1895.66068
TMEM39B	172.8008594	202.4776741	156.6753551
CCRL2	24.21413316	15.76670413	6.667036389
CCR2	108.9635992	8.298265334	12.22290005
POLR3GL	61.63597531	73.85456147	38.8910456
GHSR	4.402569665	1.659653067	28.89049102
TNFSF10	1064.321217	99.579184	1115.617422
ZNF639	485.3833056	618.2207674	255.5697282
SLITRK3	9.905781747	121.1546739	5.555863657
PIK3CA	974.0685384	1486.219321	1468.970351
PDS5A	4609.490439	4988.087292	3915.772706
TMEM156	38.52248457	4.149132667	32.22400921
LIAS	183.8072835	68.87560227	98.8943731
CPXM2	514.0000084	29.8737552	370.0205196
TMEM54	159.5931504	144.3898168	762.2644938
ZSCAN20	155.1905807	147.7091229	83.33795486
CSMD2	68.23982981	604.9435428	245.5691736
HPCA	2.201284833	31.53340827	16.66759097
LRIF1	1122.655265	1010.728718	524.4735292
TMIGD3	9.905781747	50.61941854	34.44635467

CLCC1	1338.381178	1472.11227	1011.167186
GPSM2	230.034265	1479.580709	81.11560939
GTDC1	247.6445437	334.4200929	238.9021373
CXCR4	312.5824462	935.2145031	190.0105371
ZRANB3	302.6766645	342.7183583	207.7893008
ACVR2A	428.1498999	492.9169608	350.0194104
POLK	793.5631822	426.5308382	308.9060193
SV2C	36.32119974	19.08601027	134.4519005
FLT3	49.52890873	14.9368776	68.89270935
RPL21	1013.691665	1208.227433	704.4835117
MTIF3	461.1691724	380.8903788	183.3435007
GTF3A	407.237694	742.6947474	316.6842285
RASL11A	97.95717505	10.78774493	104.4502368
UBL3	302.6766645	199.158368	138.8965914
FYTTD1	1066.522501	1574.180934	394.4663197
MTERF4	679.0963709	508.683665	474.4707563
XPNPEP2	9.905781747	4.9789592	27.77931829
SASH3	51.73019357	19.9158368	61.11450023
OCRL	1635.554631	1336.850545	1126.72915
PAEP	1.100642416	0	6.667036389
OBP2A	0	4.9789592	2.222345463
MRPS2	190.411138	307.0358173	251.1250373
FMOD	2258.518238	334.4200929	3183.509876
LAX1	28.61670282	2.4894796	6.667036389
PLG	8.80513933	5.808785734	34.44635467
KIAA1191	665.8886619	489.5976547	903.3834307
COPA	4635.905857	4475.254494	4613.589181
CD244	13.207709	2.4894796	6.667036389
LY9	62.73661773	1.659653067	35.55752741
HS3ST2	31.91863007	35.68254093	136.674246
RBBP6	2101.126373	2097.801476	1173.398404
ZC3H7A	1024.69809	1085.413106	858.9365214
PRM2	0	2.4894796	5.555863657
SERAC1	309.280519	293.7585928	662.2589479
ANXA11	1452.84799	1303.657484	2045.668999
LDB3	175.0021442	97.0897044	7.77820912
OPN4	0	0.829826533	0
SHLD2	860.7023695	469.6818179	396.6886651
PRXL2A	547.0192809	1169.225586	821.1566485
ZNF205	129.8758051	98.74935747	166.6759097
NAA60	1021.396162	596.6452775	384.4657651
RPL5	2183.674554	2599.016703	1786.765752
ODF2L	366.5139246	705.3525534	2772.375965
PTGFR	14.30835141	14.9368776	94.44968217

SPATA1	44.02569665	46.47028587	38.8910456
TRMT13	401.7344819	145.2196433	71.11505481
LRRC39	55.03212081	54.7685512	50.00277291
RWDD3	49.52890873	39.00184707	38.8910456
ZNF644	4158.227049	5151.563119	2243.457745
CCDC18	158.4925079	531.0889814	88.89381852
RPAP2	592.14562	532.7486344	371.1316923
SLC66A2	157.3918655	115.3458881	271.1261465
BBS9	888.21843	559.3030835	814.4896121
PMS2	635.0706742	541.0468998	606.7003114
ZMIZ2	1973.451852	994.9620135	1493.416151
OCM	11.00642416	0.829826533	15.55641824
SEPTIN7	593.2462624	800.7826047	291.1272556
EEPD1	247.6445437	94.6002248	365.5758286
KLHL7	424.8479727	268.0339703	376.687556
HERPUD2	799.0663942	384.2096849	355.5752741
CBX3	194.8137077	469.6818179	58.89215477
HNRNPA2	8047.897348	11325.47253	5482.526257
WIPF3	301.5760221	26.55444907	122.2290005
NXPH1	1.100642416	28.21410213	7.77820912
NPY	2070.308385	0	81.11560939
HYCC1	604.2526865	965.9180848	147.7859733
HOXA7	38.52248457	0	0
INHBA	419.3447606	157.6670413	21.1122819
FKBP9	713.2162858	1067.986748	1155.619641
NT5C3A	147.4860838	154.3477352	94.44968217
ARL4A	49.52890873	146.8792964	35.55752741
CCZ1	309.280519	233.1812559	172.2317734
POLM	176.1027866	68.04577574	236.6797918
RAMP3	29.71734524	16.59653067	38.8910456
MRM2	1.100642416	4.9789592	3.333518194
TWIST1	23.11349074	35.68254093	84.44912759
SMU1	1561.811589	2129.334885	1263.403396
GLIPR2	304.8779493	123.6441535	10.00055458
SLC25A51	176.1027866	304.5463377	191.1217098
CLTA	608.6552562	1023.176116	636.7019751
RECK	394.029985	271.3532764	312.2395375
SPINK4	0	0	2.222345463
TAF1L	44.02569665	34.02288787	116.6731368
ACO1	665.8886619	989.9830543	1268.959259
PHF24	3.301927249	2.4894796	3.333518194
DNAI1	42.92505424	42.3211532	60.0033275
DCAF10	418.2441182	538.5574202	496.694211
CNTFR	23.11349074	339.3990521	21.1122819

KIAA1549	626.2655349	697.054288	771.1538756
TRIM24	1833.670266	1076.285014	641.146666
CYREN	104.5610295	132.7722453	146.6748005
CALD1	4336.53112	588.3470122	395.5774924
AKR1D1	17.61027866	4.149132667	12.22290005
NUDT10	425.9486151	8.298265334	5.555863657
SFTPA1	1.100642416	8.298265334	11.11172731
NEUROG3	2.201284833	101.2388371	0
PLAU	112.2655265	49.789592	48.89160018
SRGN	376.4197064	283.8006744	192.2328825
CHST3	152.9892959	120.3248473	60.0033275
BICC1	1292.154197	504.5345323	1547.863615
ARL4AP1	1.100642416	0	0
CISD1	139.7815869	287.9498071	47.78042745
EGR2	364.3126398	229.8619497	271.1261465
ECD	1054.415435	1061.348136	908.9392943
P4HA1	1252.53107	2173.315691	2093.449426
SLC25A16	606.4539714	309.5252969	517.8064929
ZWINT	31.91863007	770.9088495	23.33462736
VPS26A	434.7537544	1063.007789	380.0210742
RBM19	791.3618973	715.3104718	1237.846423
CIT	278.4625313	1993.243333	160.0088733
IFT81	424.8479727	660.5419206	294.4607738
ACADS	46.22698148	106.2177963	158.8977006
HVCN1	72.64239948	30.70358173	28.89049102
NME2P1	4.402569665	16.59653067	20.00110917
DDX54	466.6723845	500.3853996	816.7119576
MED13L	6903.229235	6168.100623	6811.488844
CDKN2C	155.1905807	792.4843394	17.7787637
RNF11	507.3961539	301.2270316	603.3667932
RASSF8	596.5481896	523.6205426	278.9043556
BHLHE41	336.7965794	21.57548987	73.33740027
SSPN	88.0513933	9.9579184	25.55697282
ITPR2	5458.085742	7171.360901	3829.101233
CCDC91	449.0621058	956.789993	505.5835928
NECAB1	7.704496914	7.4684388	92.22733671
WWP1	2833.05358	1605.714342	3119.061857
ACOT9	369.8158519	508.683665	138.8965914
PRDX4	534.9122143	1390.78927	803.3778848
DDX39A	146.3854414	726.9280432	315.5730557
PKN1	713.2162858	1458.005219	1046.724713
TRIR	512.899366	731.9070024	542.2522929
ADGRE5	386.3254881	318.6533888	248.9026918
WDR83	62.73661773	55.59837774	61.11450023

GIPC1	296.07281	201.6478476	297.794292
ACTRT1	2.201284833	0	13.33407278
CCDC70	0	0	14.44524551
SPRYD7	134.2783748	212.4355925	111.1172731
EBPL	122.1713082	73.02473494	157.7865279
ATP7B	403.9357668	303.7165112	490.0271746
ZC3H13	4639.207785	3441.290634	2672.370419
GUCY1B2	0	18.25618373	0
NLN	304.8779493	632.3278184	244.4580009
CENPK	31.91863007	249.7777865	17.7787637
OPTN	519.5032205	323.632348	111.1172731
ITIH5	537.1134992	58.91768387	460.0255108
ATF1	271.8586768	156.8372148	137.7854187
TSFM	38.52248457	23.23514293	10.00055458
NEUROD4	2.201284833	69.7054288	1.111172731
ARHGAP9	146.3854414	45.64045934	55.55863657
NCKAP1L	483.1820208	128.6231127	231.1239281
MMP19	159.5931504	80.49317374	98.8943731
PFDN5	0	0	2.222345463
SPATS2	396.2312699	403.2956952	264.4591101
ORMDL2	226.7323378	256.4163988	163.3423915
NR4A1	275.1606041	273.842756	340.0188558
PDE1B	18.71092108	16.59653067	58.89215477
HOXC13	11.00642416	7.4684388	10.00055458
CDK2	234.4368347	489.5976547	123.3401732
LRP1	17741.25511	4247.052198	25210.28693
HOXC11	2.201284833	7.4684388	3.333518194
ATG101	156.2912231	300.3972051	158.8977006
NFE2	3.301927249	14.10705107	10.00055458
HOXC12	1.100642416	3.319306133	31.11283648
IKZF4	154.0899383	84.6423064	124.4513459
SMUG1	75.94432672	125.3038065	241.1244827
TUBA1B	4252.882297	11191.04063	4361.352971
EEF1AKM	91.35332055	29.04392867	21.1122819
TYRL	2.201284833	0	0
SARDH	42.92505424	303.7165112	44.44690926
DBH	0	32.3632348	0
ATPAF1	631.768747	337.7393991	711.1505481
STIL	806.7708911	2373.303885	458.9143381
HJURP	116.6680961	1555.92475	73.33740027
IL13RA2	112.2655265	3.319306133	0
COL10A1	555.8244202	236.500562	11.11172731
AMD1	777.0535459	590.0066652	1093.393968
NDUFAF4	28.61670282	58.08785734	37.77987287

USP45	449.0621058	207.4566333	746.7080755
PLP1	14.30835141	4.149132667	50.00277291
SERPINA7	1.100642416	0.829826533	0
MORF4L2	1250.329785	1976.646802	1460.080969
H2BW1	0	2.4894796	0
RAB9B	55.03212081	95.43005134	26.66814555
NRK	113.3661689	4.9789592	41.11339106
FAM199X	453.4646755	603.2838898	597.8109295
ATXN3L	3.301927249	2.4894796	13.33407278
RAB9A	288.3683131	313.6744296	166.6759097
METTL8	213.5246288	294.5884193	225.5680645
TTC21B	2977.237736	2552.546417	4165.78657
NMI	245.4432588	195.0092353	21.1122819
TNFAIP6	12.10706658	29.04392867	17.7787637
ACVR1C	17.61027866	24.894796	124.4513459
BAZ2B	6376.021518	4156.601106	4306.905507
SLC36A1	323.5888704	406.6150013	463.359029
LPGAT1	886.0171451	5572.285172	1331.184932
BATF3	11.00642416	13.27722453	0
G0S2	18.71092108	1.659653067	0
KCNJ2	116.6680961	59.7475104	25.55697282
RAP2C	146.3854414	241.4795212	265.5702828
EXOSC9	281.7644586	671.3296655	361.1311377
PLA2G12A	57.23340565	76.34404107	44.44690926
B9D2	37.42184215	73.02473494	97.78320037
COQ8B	156.2912231	233.1812559	363.3534832
PFKFB2	358.8094277	1394.108576	242.2356555
C4BPA	3.301927249	2.4894796	23.33462736
C4BPB	2.201284833	1.659653067	11.11172731
ZNF137P	30.81798766	35.68254093	10.00055458
RAB38	31.91863007	21.57548987	0
GPR83	3.301927249	20.74566333	94.44968217
AGO2	1387.910087	3892.716268	1371.187151
MXD4	398.4325547	241.4795212	565.5869203
PMS2P5	3.301927249	0.829826533	0
CKS2	106.7623144	865.5090743	30.00166375
DAW1	6.603854498	1.659653067	5.555863657
ACSL3	1898.608168	1479.580709	1051.169404
CHPF	827.6830971	850.5721967	2456.802909
DNPEP	471.0749542	409.1044809	1517.861951
INHA	16.50963624	13.27722453	91.11616398
MOGAT1	8.80513933	4.149132667	32.22400921
OBSL1	894.8222845	1455.51574	3041.279766
FAM124B	12.10706658	5.808785734	22.22345463

SLC12A4	833.1863091	286.290154	612.256175
ENKD1	47.3276239	43.15097974	72.22622754
MC3R	5.503212081	0.829826533	12.22290005
GCNT7	8.80513933	4.9789592	20.00110917
CTCFL	6.603854498	4.9789592	7.77820912
HMGB1P1	4.402569665	7.4684388	4.444690926
FAM210B	411.6402637	897.0424826	354.4641013
PI3	19.81156349	0.829826533	8.889381852
FAM209A	16.50963624	4.149132667	20.00110917
SNX21	195.9143501	97.0897044	300.0166375
SLPI	107.8629568	32.3632348	4910.2723
WFDC3	9.905781747	18.25618373	8.889381852
TTPAL	156.2912231	175.9232251	210.0116462
PREX1	681.2976557	369.2728073	1143.396741
KCNS1	6.603854498	3.319306133	8.889381852
SLC12A5	22.01284833	214.9250721	67.78153662
ARHGAP4	288.3683131	5.808785734	7.77820912
SDC4	749.5374855	516.9819303	1012.278358
NCOA3	3397.683139	2007.350384	2929.05132
PIGT	1944.83515	2671.211611	3709.094578
SEMG2	4.402569665	0	10.00055458
MATN4	8.80513933	5.808785734	51.11394565
NCOA5	1078.629568	1018.197156	1192.288341
VAPB	897.0235693	1192.460728	391.1328015
PARD6B	198.1156349	263.0550111	226.6792372
ATP5F1E	1374.702378	2248.829905	732.26283
CHD6	8547.589005	6343.194021	8513.805468
PLCG1	2024.081404	1589.117811	3486.860031
TOX2	79.24625397	196.6688884	160.0088733
SRSF6	1010.389738	615.7312878	1542.307751
GDAP1L1	1.100642416	9.9579184	6.667036389
GTSF1L	1.100642416	0	4.444690926
ARFGEF2	2314.651001	1599.905556	1973.442771
ZNFX1	3151.139238	1195.780035	2703.483256
ZNF831	63.83726015	6.638612267	21.1122819
EDN3	8.80513933	1.659653067	74.44857301
CSE1L	1931.627441	4033.786779	1054.502922
RAB22A	388.526773	698.7139411	368.9093468
PTGIS	397.3319123	61.40716347	55.55863657
STAU1	2358.676698	2432.221569	1948.996971
CDH26	48.42826632	14.9368776	103.339064
SNAI1	22.01284833	166.7951332	45.55808199
MOCS3	166.1970049	141.9003372	177.787637
STX16	115.5674537	188.3706231	35.55752741

PMEPA1	1824.865126	166.7951332	567.8092658
RNF114	708.8137161	548.5153386	525.584702
ANKRD60	0	2.4894796	3.333518194
DDX27	759.4432672	663.8612267	683.3712298
RBPJL	6.603854498	4.9789592	5.555863657
SEMG1	6.603854498	0.829826533	11.11172731
C20orf85	0	2.4894796	3.333518194
BCAS4	42.92505424	25.72462253	160.0088733
KCNK15	18.71092108	2.4894796	34.44635467
TP53TG5	3.301927249	2.4894796	0
PCK1	3.301927249	4.9789592	31.11283648
ZBP1	46.22698148	3.319306133	6.667036389
NEURL2	27.51606041	30.70358173	128.8960368
MAGEA10	2.201284833	448.106328	17.7787637
MTRR	542.6167112	425.7010116	365.5758286
FASTKD3	188.2098532	291.2691132	190.0105371
PEPD	558.0257051	575.0697876	941.1633035
CHST8	0	184.2214904	11.11172731
IQSEC2	851.8972302	124.47398	1232.290559
VAMP7	14.30835141	98.74935747	37.77987287
XG	5.503212081	9.9579184	8.889381852
STAMBP	440.2569665	347.6973175	295.5719466
NAGK	205.8201318	218.2443783	318.9065739
MCEE	139.7815869	63.89664307	92.22733671
PAIP2B	156.2912231	235.6707355	104.4502368
SNRNP27	125.4732355	128.6231127	35.55752741
MPHOSPH	541.5160688	320.3130419	124.4513459
IL17C	0	1.659653067	0
NDUFB4P	3.301927249	11.61757147	23.33462736
ATP8A1	3317.336243	400.8062156	6164.786314
USP22	2890.286985	3979.848054	5840.323876
POF1B	105.661672	2.4894796	26.66814555
HIF3A	59.43469048	14.9368776	397.7998379
ZNF576	86.95075089	64.7264696	28.89049102
IRGC	7.704496914	2.4894796	1.111172731
ZNF45	377.5203488	663.8612267	476.6931018
LYPD3	165.0963624	114.5160616	206.678128
PSG8	11.00642416	1.659653067	8.889381852
CEACAM8	2.201284833	9.128091867	5.555863657
NDP	33.01927249	0	0
USP9X	7382.008686	14692.07877	9349.407362
CRISP2	46.22698148	1.659653067	36.66870014
F13A1	1714.800885	977.5356563	1624.534533
GRM4	40.7237694	511.1731446	12.22290005

TRERF1	544.8179961	716.1402983	364.4646559
PACSIN1	53.9314784	62.23699	34.44635467
BTN2A2	183.8072835	84.6423064	173.3429461
SIRT5	179.4047139	185.8811435	364.4646559
MRS2	271.8586768	357.6552359	293.3496011
WRNIP1	786.9593277	1452.196433	1103.394522
RRP36	197.0149925	458.0642464	161.1200461
BTN2A3P	5.503212081	0.829826533	5.555863657
SNRPC	225.6316953	493.7467874	230.0127554
SLC17A3	3.301927249	4.9789592	22.22345463
SLC17A1	4.402569665	2.4894796	24.44580009
SERPINB6	1708.19703	973.3865236	1665.647924
XPO5	878.3126482	1672.930291	1158.953159
ABCC10	232.2355498	255.5865723	888.9381852
H1-3	257.5503254	1986.604721	78.89326393
PEX6	379.7216336	195.0092353	1058.947613
NQO2	333.4946521	245.6286539	355.5752741
ENSG0000	7.704496914	8.298265334	10.00055458
OARD1	283.9657434	565.9416958	118.8954823
UNC5CL	9.905781747	21.57548987	28.89049102
AARS2	347.8030036	354.3359297	600.033275
H1-1	25.31477557	4.9789592	14.44524551
ZNF391	48.42826632	43.98080627	42.22456379
RPS10	29.71734524	49.789592	14.44524551
MOCS1	59.43469048	189.2004496	220.0122008
H2BC11	152.9892959	2192.401701	55.55863657
MED20	19.81156349	34.8527144	2.222345463
OR2B6	20.91220591	8.298265334	41.11339106
TBCC	177.203429	258.0760519	173.3429461
SPDEF	870.6081513	3.319306133	977.8320037
TCP11	9.905781747	6.638612267	17.7787637
MAD2L1B	85.85010847	219.9040313	151.1194915
APOBEC2	1.100642416	0	4.444690926
KLHDC3	626.2655349	1267.145116	1263.403396
GNMT	73.74304189	19.9158368	22.22345463
DNAH8	1338.381178	43.98080627	3325.739985
TREM1	12.10706658	72.1949084	36.66870014
MEA1	314.7837311	736.8859616	352.2417559
KLHL31	57.23340565	19.08601027	14.44524551
COL21A1	194.8137077	3091.933663	75.55974574
CDKN1A	85.85010847	1645.546016	173.3429461
SOX4	540.4154264	2101.120782	596.6997568
GLO1	4821.914426	3168.277704	4234.67928
CPNE5	19.81156349	15.76670413	30.00166375

KCNK17	93.55460539	300.3972051	95.5608549
RREB1	2973.935809	1626.460005	2541.252037
SSR1	1627.850134	1792.425312	1501.19436
RIOK1	450.1627483	555.1539508	214.4563372
NRN1	17.61027866	424.8711851	118.8954823
SLC35B3	431.4518272	374.2517665	260.0144192
RPP40	82.54818122	297.0778989	118.8954823
ATXN1	1514.483965	207.4566333	1953.441662
NUP153	2513.867279	3495.229359	2616.811783
DEK	2320.154214	6766.405553	961.1644127
EEF1E1	80.34689639	238.1602151	63.33684569
CRISP1	5.503212081	4.9789592	3.333518194
RUNX2	261.9528951	141.9003372	153.3418369
OPN5	1.100642416	5.808785734	8.889381852
GCM2	3.301927249	0.829826533	22.22345463
LRRFIP1	2658.051435	3259.558623	1090.06045
ENSG0000	8.80513933	13.27722453	0
RAB17	81.44753881	79.6633472	42.22456379
CXCL6	62.73661773	0.829826533	0
EREG	6.603854498	2.4894796	1.111172731
TRIM51	4.402569665	4.149132667	0
MYRF	35.22055732	43.98080627	81.11560939
SCGB1D2	20.91220591	49.789592	208.9004735
SCGB2A1	15.40899383	380.0605523	148.897146
AHNAK	82121.13196	15169.22903	108812.7009
EMC3	432.5524696	535.238114	646.7025297
SSUH2	3.301927249	46.47028587	68.89270935
WNT1	2.201284833	0	1.111172731
SH3TC1	121.0706658	80.49317374	261.1255919
CNOT1	5873.027933	6538.203256	3792.432532
FBXL9P	14.30835141	6.638612267	11.11172731
BBS2	406.1370516	326.9516541	465.5813745
MT1G	39.62312699	7.4684388	0
MT2A	835.387594	3062.889735	473.3595836
PHAF1	340.0985066	196.6688884	196.6775735
GOT2	259.7516102	395.8272564	772.2650483
DOK4	73.74304189	46.47028587	72.22622754
PIWIL1	0	0	10.00055458
GPR18	27.51606041	3.319306133	5.555863657
CLYBL	48.42826632	70.53525534	60.0033275
TMTC4	336.7965794	341.0587052	570.0316112
RAP2A	101.2591023	297.9077255	201.1222644
SLC10A2	7.704496914	2.4894796	0
ABCC4	4496.124271	81.32300027	698.9276481

EFNB2	2315.751644	180.0723577	317.7954012
SOX21	4.402569665	22.4053164	15.55641824
TM9SF2	2827.550367	2575.78156	2963.497675
HROB	18.71092108	130.2827657	94.44968217
KIF25	4.402569665	2.4894796	12.22290005
IRF1	282.865101	140.2406841	163.3423915
UPF3B	433.653112	463.0432056	137.7854187
RNF113A	139.7815869	139.4108576	62.22567296
SEPTIN6	26.41541799	34.02288787	216.6786826
TMEM255	27.51606041	27.3842756	1.111172731
NDUFA1	942.1499084	1848.02369	851.1583123
AMELX	6.603854498	0.829826533	18.88993643
DMAC2L	115.5674537	309.5252969	247.7915191
BMP4	482.0813783	24.06496947	101.1167186
PTGER2	167.2976473	25.72462253	43.33573653
FAM193A	1533.194886	1004.919932	1580.087624
GRK4	71.54175706	25.72462253	31.11283648
SOX9	706.6124313	86.30195947	772.2650483
TEKT3	24.21413316	30.70358173	111.1172731
MYH2	36.32119974	13.27722453	43.33573653
HS3ST3B1	42.92505424	9.128091867	51.11394565
SLC25A35	126.5738779	123.6441535	88.89381852
MRPS7	246.5439013	377.5710727	226.6792372
GGA3	632.8693894	421.551879	884.4934942
ARMC7	41.82441182	58.08785734	68.89270935
NUP85	343.4004339	771.738676	551.1416748
SLC25A19	78.14561156	156.8372148	38.8910456
MIF4GD	49.52890873	48.12993894	125.5625187
NT5C	58.33404806	102.8984901	68.89270935
MSTO1	71.54175706	40.66150013	105.5614095
MIR9-1HG	0	52.2790716	5.555863657
TTF1	556.9250626	1295.359219	520.0288383
GTF3C4	584.4411231	1194.950208	845.6024486
DDX31	302.6766645	326.1218276	414.4674288
BARHL1	2.201284833	21.57548987	1.111172731
PPP1R12C	469.9743118	292.0989397	934.4962671
MBOAT7	6.603854498	12.447398	42.22456379
SRMS	62.73661773	9.128091867	13.33407278
OPRL1	7.704496914	4.9789592	0
LINC0002	0	0.829826533	0
SLC2A4R	533.8115719	443.1273688	838.9354122
FNDC11	5.503212081	4.149132667	8.889381852
BHLHE23	0	4.9789592	0
PPDPF	1221.713082	1039.772646	2647.924619

IL1B	20.91220591	5.808785734	27.77931829
PLGLB2	6.603854498	2.4894796	8.889381852
IL37	0	6.638612267	13.33407278
CHCHD5	169.4989321	156.8372148	196.6775735
PAX8	8.80513933	24.894796	36.66870014
INSIG2	79.24625397	137.7512045	174.4541188
POLR1B	454.5653179	850.5721967	586.6992022
CCDC93	527.2077174	367.6131543	352.2417559
PSD4	806.7708911	101.2388371	1345.630178
SLC25A23	630.6681045	172.6039189	600.033275
PSPN	20.91220591	17.4263572	4.444690926
GTF2F1	700.0085768	808.2510435	875.6041124
ALKBH7	92.45396297	171.7740924	510.0282837
CLPP	171.7002169	199.158368	255.5697282
TNFSF9	0	4.9789592	0
GRIA3	38.52248457	5.808785734	23.33462736
THOC2	2973.935809	3494.399532	1730.095943
MED1	3267.807334	5378.105763	1798.988652
RPL23	2195.781621	2843.81553	1550.08596
ATG4C	203.618847	307.8656439	256.680901
CD70	1.100642416	2.4894796	13.33407278
C3	7161.880203	18.25618373	1211.178277
SH2D3A	129.8758051	44.8106328	10.00055458
TRIP10	574.5353413	467.1923383	172.2317734
GPR108	845.2933757	413.2536136	1007.833667
TNFSF14	18.71092108	4.9789592	15.55641824
FOSB	41.82441182	356.8254093	324.4624376
OPA3	117.7687385	191.6899292	184.4546734
SNRPD2	556.9250626	1253.867892	821.1566485
RTN2	116.6680961	264.7146641	128.8960368
EML2	346.7023611	502.8748792	1395.632951
VASP	324.6895128	335.2499195	592.2550659
SYMPK	1376.903663	1223.16431	2907.939038
GPCPD1	714.3169282	719.4596044	543.3634657
SDCBP2	6.603854498	9.128091867	197.7887462
PANK2	616.3597531	1264.655637	406.6892197
GNRH2	6.603854498	6.638612267	6.667036389
DEFB126	4.402569665	1.659653067	1.111172731
FOXA2	13.207709	105.3879697	13.33407278
FAM182A	4.402569665	0	3.333518194
CD93	189.3104956	267.2041437	248.9026918
GZF1	315.8843735	518.6415834	236.6797918
PAX1	42.92505424	4.149132667	28.89049102
NAPB	234.4368347	190.8601027	154.4530097

CST8	1.100642416	2.4894796	0
NKX2-4	13.207709	2.4894796	0
CENPB	618.561038	673.8191451	890.0493579
PSMF1	969.6659688	776.7176352	943.385649
NKX2-2	1.100642416	12.447398	18.88993643
DTD1	14.30835141	54.7685512	8.889381852
CSTL1	1.100642416	1.659653067	0
RBCK1	514.0000084	256.4163988	825.6013395
TMX4	686.8008678	419.0623993	258.9032464
CST11	1.100642416	0.829826533	0
STK35	310.3811614	486.2783486	278.9043556
SNRPB	123.2719506	574.2399611	360.019965
NRSN2	181.6059987	171.7740924	163.3423915
AP5S1	47.3276239	67.2159492	58.89215477
RRBP1	5728.843777	2823.069867	3887.993387
BMP2	11.00642416	161.816174	14.44524551
ZNF133	383.0235609	433.1694504	561.1422294
FLRT3	542.6167112	236.500562	321.1289194
OVOL2	94.6552478	125.3038065	94.44968217
PCSK2	11.00642416	978.3654828	45.55808199
GFRA4	3.301927249	4.9789592	4.444690926
MKKS	909.1306359	941.0232888	753.3751119
BFSP1	44.02569665	195.8390619	73.33740027
DSTN	4684.334124	2560.014855	1180.065441
LAMP5	56.13276323	18.25618373	40.00221833
SNRPB2	390.7280578	1296.189045	231.1239281
MGME1	224.5310529	404.1255217	125.5625187
LRRN4	15.40899383	73.85456147	0
TBC1D20	740.7323462	448.106328	558.9198839
ITPA	186.0085684	145.2196433	224.4568918
TCF15	2.201284833	4.9789592	12.22290005
OTOR	4.402569665	0	0
MCM8	72.64239948	248.94796	4.444690926
BANF2	0	1.659653067	0
TMEM74E	5.503212081	62.23699	81.11560939
FAM110A	82.54818122	137.7512045	124.4513459
SIRPD	0	0	3.333518194
MRPS26	123.2719506	243.9690008	220.0122008
DEFB129	4.402569665	0.829826533	6.667036389
S1PR4	9.905781747	4.149132667	7.77820912
NCLN	225.6316953	262.2251845	748.930421
CITED1	7.704496914	0.829826533	15.55641824
HNRNPR	1.100642416	2.4894796	1.111172731
MAX	499.691657	485.448522	351.1305831

ARMCX5	322.488228	367.6131543	191.1217098
GDF5	2.201284833	12.447398	1.111172731
MMP24	12.10706658	82.1528268	27.77931829
NECAB3	238.8394043	319.4832153	510.0282837
ID1	72.64239948	196.6688884	536.6964293
RALY	865.1049392	1677.90925	814.4896121
DYNLRB1	27.51606041	25.72462253	40.00221833
C20orf173	1.100642416	1.659653067	14.44524551
EIF2S2	803.4689639	1315.275055	680.0377116
ERGIC3	1511.182038	1516.922903	2932.384838
ROMO1	285.0663858	510.343318	521.140011
BPIFB9P	0	0.829826533	0
FAM83C	0	4.9789592	4.444690926
BPIFB1	14.30835141	4.9789592	96.67202764
CEP250	960.8608294	3819.691533	1195.621859
PLAGL2	268.5567496	297.0778989	265.5702828
MMP24OS	233.3361923	86.30195947	282.2378738
GRPR	272.9593192	8.298265334	82.22678213
KDM5C	1512.28268	1784.956873	3649.09125
AMOT	505.1948691	524.4503691	648.9248752
TMEM115	157.3918655	103.7283167	294.4607738
PSMB2	738.5310613	2293.640538	882.2711488
AGO3	1001.584599	1212.376565	891.1605306
UROD	238.8394043	268.8637968	558.9198839
ST3GAL3	78.14561156	82.1528268	26.66814555
TMEM53	100.1584599	66.38612267	135.5630732
HECTD3	331.2933673	213.2654191	754.4862846
KLC1	366.5139246	482.9590424	296.6831193
XRCC3	26.41541799	191.6899292	3.333518194
TUBGCP3	356.6081429	628.1786858	292.2384284
MCF2L	762.7451945	492.0871343	1070.05934
F10	42.92505424	5.808785734	75.55974574
PCID2	316.9850159	296.2480724	312.2395375
PROZ	5.503212081	1.659653067	3.333518194
SLURP1	0	4.149132667	4.444690926
LRFN3	135.3790172	151.0284291	235.5686191
IGFLR1	1.100642416	4.149132667	3.333518194
CAPNS1	1655.366194	1506.964985	2145.674544
PDCD2L	35.22055732	105.3879697	38.8910456
GPR42	1.100642416	0	0
RBM42	212.4239863	419.8922259	484.4713109
KIRREL2	2.201284833	48.12993894	2.222345463
UBA2	1341.683105	4083.576371	1373.409496
FFAR2	9.905781747	9.128091867	17.7787637

HCST	14.30835141	9.9579184	22.22345463
FFAR1	1.100642416	1.659653067	1.111172731
COX6B1	286.1670282	794.973819	713.3728936
KRT36	1.100642416	4.149132667	15.55641824
THRA	680.1970133	353.5061032	643.3690115
CCR7	28.61670282	3.319306133	18.88993643
NR1D1	528.3083598	190.0302761	421.1344652
FRMD8	117.7687385	234.0110824	306.6836739
PRDX5	677.9957284	1076.285014	706.7058572
BCL2L12	44.02569665	66.38612267	165.564737
IRF3	340.0985066	355.1657563	853.3806577
PRMT1	610.856541	1046.411259	1274.515123
RRAS	127.6745203	33.19306133	160.0088733
PRRG2	48.42826632	7.4684388	0
SCAF1	730.8265644	862.1897682	1814.54507
PRR12	1736.813733	1438.919209	2953.49712
TSKS	4.402569665	2.4894796	31.11283648
FLRT1	4.402569665	308.6954704	12.22290005
ASL	77.04496914	41.49132667	120.006655
SBDS	1628.950776	682.947237	578.9209931
CSN1S1	6.603854498	0.829826533	0
STAT5A	396.2312699	155.1775617	337.7965104
WNK4	1078.629568	18.25618373	796.7108484
BECN1	835.387594	875.4669927	803.3778848
PRKCG	15.40899383	5.808785734	6.667036389
TRAP1	963.0621143	1270.464423	1401.188814
GLIS2	2.201284833	4.149132667	0
NSRP1	620.7623228	489.5976547	277.7931829
DNAJC8	144.1841565	151.8582556	34.44635467
AHDC1	1087.434707	966.7479114	1247.846977
IFI6	239.9400468	212.4355925	520.0288383
DACH2	0	14.9368776	55.55863657
ZNF384	1266.839421	1382.491005	1113.395077
EMG1	136.4796596	176.7530516	116.6731368
SSX1	18.71092108	0	3.333518194
UXT	313.6830886	373.42194	241.1244827
CFP	3.301927249	6.638612267	0
ELK1	287.2676707	390.8482972	424.4679834
PCNX4	1801.751635	1770.849822	2032.334926
ATG14	254.2483982	248.1181335	461.1366835
KTN1	3522.055732	4503.468597	2920.161938
SIX1	266.3554647	182.5618373	314.461883
RHOJ	93.55460539	44.8106328	291.1272556
DLGAP5	78.14561156	1541.817699	18.88993643

L3HYPDH	126.5738779	55.59837774	224.4568918
HSPA2	107.8629568	293.7585928	863.3812123
ZBTB1	1310.865118	989.1532278	1516.750778
TRMT5	298.2740948	479.6397363	302.238983
PLEKHG3	347.8030036	499.5555731	310.0171921
PZP	11.00642416	20.74566333	71.11505481
PRDM7	9.905781747	1.659653067	13.33407278
RHOT1	762.7451945	1171.715065	810.0449212
EVI2A	20.91220591	6.638612267	11.11172731
DYNC2I1	702.2098616	217.4145517	407.8003924
AIF1L	148.5867262	288.7796336	191.1217098
FAM78A	81.44753881	17.4263572	61.11450023
NUP214	3736.681003	3748.326451	3127.951239
AVPR2	0	0	10.00055458
SLC10A3	247.6445437	218.2443783	496.694211
MAP2K2	663.687377	869.658207	1667.87027
HNRNPH2	1132.561046	1394.938403	652.2583934
ARMCX1	146.3854414	34.02288787	50.00277291
TMEM35A	31.91863007	4.9789592	13.33407278
TIMM8A	45.12633907	62.23699	33.33518194
ZC4H2	45.12633907	4.9789592	42.22456379
CANX	252.0471133	451.4256342	220.0122008
INTS11	653.7815953	346.8674909	1482.304424
RGS13	2.201284833	0	1.111172731
IPPK	57.23340565	81.32300027	73.33740027
ZNF484	628.4668197	943.5127684	486.6936564
OMD	9.905781747	3.319306133	33.33518194
FGD3	287.2676707	101.2388371	60.0033275
HIVEP3	1538.698098	441.4677158	883.3823215
PPCS	525.0064326	256.4163988	553.3640203
EDN2	3.301927249	68.04577574	2.222345463
BCL11B	95.75589022	9.128091867	0
COX7C	369.8158519	809.9106966	566.698093
TRAF2	144.1841565	318.6533888	363.3534832
ABHD8	116.6680961	135.2617249	326.684783
ATP13A4	210.2227015	26.55444907	124.4513459
PLAAT1	1.100642416	0.829826533	5.555863657
HELB	362.111355	131.1125923	106.6725822
RAP1B	1937.130653	1159.267667	495.5830382
IL22	5.503212081	0.829826533	3.333518194
TSPAN8	110.0642416	29.8737552	1534.529542
BEST3	12.10706658	376.7412461	34.44635467
RAB3IP	1179.88867	1422.322678	341.1300286
PTPRB	1129.259119	677.1384512	264.4591101

DYRK2	573.4346989	407.4448279	255.5697282
YEATS4	100.1584599	136.921378	43.33573653
TAS2R3	257.5503254	146.8792964	173.3429461
TAS2R4	265.2548223	226.5426436	254.4585555
TAS2R5	111.164884	58.08785734	97.78320037
CRYGN	8.80513933	3.319306133	66.67036389
LRRC61	17.61027866	39.8316736	77.7820912
IDUA	272.9593192	78.83352067	1301.183269
FGFRL1	254.2483982	204.9671537	1548.974788
TMEM175	189.3104956	104.5581432	615.5896932
AUNIP	19.81156349	229.0321232	7.77820912
PIN1	146.3854414	281.3111948	404.4668742
FBXL12	124.372593	104.5581432	246.6803464
EMC1	994.9807443	1936.815129	2339.0186
PLA2G5	29.71734524	4.9789592	23.33462736
UBR4	10616.79675	10824.2573	23034.61072
HP1BP3	3384.47543	4149.962493	3919.106224
ADGRE2	139.7815869	74.684388	123.3401732
SIN3B	1021.396162	608.262849	2136.785163
OR7A10	1.100642416	1.659653067	15.55641824
SLC35E1	532.7109295	338.5692256	842.2689304
EPS15L1	882.7152179	599.1347571	1067.836995
KLF2	133.1777324	88.79143907	738.9298664
OR7C2	4.402569665	1.659653067	27.77931829
OR7C1	7.704496914	5.808785734	4.444690926
F2RL3	33.01927249	9.9579184	10.00055458
UQCR11	13.207709	13.27722453	2.222345463
PKMYT1	16.50963624	173.4337455	30.00166375
WFIKKN1	12.10706658	11.61757147	42.22456379
WDR24	182.7066411	235.6707355	412.2450834
FBXL16	23.11349074	223.2233375	48.89160018
CHTF18	95.75589022	260.5655315	270.0149737
GNG13	3.301927249	2.4894796	3.333518194
TUBBP1	217.9271984	1265.485463	480.02662
MACF1	19591.43501	20198.80765	11473.96962
SMARCA4	2949.721676	3157.489959	3854.658205
KDM4B	921.2377024	775.8878087	1062.281131
TICAM1	260.8522527	322.8025215	264.4591101
METTL25	217.9271984	134.4318984	270.0149737
IL17B	3.301927249	0.829826533	6.667036389
EMC6	148.5867262	331.1007868	121.1178277
OR1E2	3.301927249	4.149132667	14.44524551
METTL16	621.8629652	834.8054926	551.1416748
TUBA4A	315.8843735	118.6651943	107.7837549

VIL1	7.704496914	264.7146641	32.22400921
AAMP	558.0257051	916.9583194	1551.197133
PNKD	581.1391958	253.9269192	582.2545113
TNFRSF19	154.0899383	151.8582556	476.6931018
RNF6	911.3319207	1205.737953	524.4735292
ECHS1	438.0556817	817.3791354	1343.407832
ZNF835	13.207709	1.659653067	2.222345463
AKAP9	6807.473345	2754.194264	2489.026918
GNG11	23.11349074	26.55444907	13.33407278
SEM1	705.5117888	973.3865236	382.2434196
GNGT1	0	0	5.555863657
HIP1	690.102795	658.052441	384.4657651
PTPN12	2542.483982	2683.659009	1107.839213
POR	753.9400552	605.7733694	785.5991211
FGL2	753.9400552	200.8180211	627.8125933
STYXL1	293.8715252	89.6212656	271.1261465
STEAP4	711.0150009	148.5389495	528.9182202
GNAI1	201.4175622	424.0413586	76.67091847
PEX1	1407.72165	615.7312878	595.5885841
MTERF1	308.1798766	143.5599903	115.5619641
SGCE	377.5203488	156.0073883	284.4602192
RBM48	302.6766645	185.8811435	57.78098203
CASD1	670.2912315	703.6929003	542.2522929
LRFN1	5.503212081	3.319306133	11.11172731
ZFP36	750.6381279	512.8327976	1668.981443
SRD5A3	2.201284833	9.128091867	0
SPINK2	2.201284833	73.02473494	35.55752741
RASL11B	2.201284833	3.319306133	5.555863657
PAICS	499.691657	2842.155877	1165.620195
KDR	1024.69809	760.1211046	375.5763832
PPAT	152.9892959	760.1211046	192.2328825
TUBGCP6	1418.728075	580.0487468	2710.150292
ADM2	34.11991491	19.9158368	11.11172731
DGCR6L	143.0835141	107.0476228	301.1278102
DGCR8	358.8094277	311.18495	364.4646559
ASPHD2	18.71092108	35.68254093	55.55863657
VPREB3	2.201284833	4.149132667	0
SDF2L1	77.04496914	173.4337455	161.1200461
GAL3ST1	30.81798766	6.638612267	25.55697282
YWHAH	576.7366261	667.1805328	196.6775735
RFPL1	8.80513933	0	20.00110917
RFPL2	36.32119974	10.78774493	24.44580009
YWHAH-A	9.905781747	2.4894796	0
GNAZ	398.4325547	399.1465625	53.33629111

MGAT3	16.50963624	34.8527144	111.1172731
ADORA2A	5.503212081	5.808785734	0
ATF4	1337.280536	1105.328942	1192.288341
A4GALT	352.2055732	109.5371024	578.9209931
RFPL3	4.402569665	1.659653067	5.555863657
CDC42EP1	368.7152095	54.7685512	110.0061004
APOL3	447.9614634	68.87560227	65.55919115
MCHR1	0	2.4894796	5.555863657
TPST2	208.0214167	143.5599903	253.3473828
BAIAP2L2	8.80513933	14.10705107	76.67091847
MPST	107.8629568	101.2388371	268.903801
GALR3	4.402569665	0.829826533	0
TST	101.2591023	75.51421454	258.9032464
IGLL1	3.301927249	0.829826533	0
APOL2	484.2826632	324.4621745	778.9320847
RAC2	104.5610295	27.3842756	16.66759097
LIF	57.23340565	4.9789592	0
C22orf23	11.00642416	5.808785734	2.222345463
APOBEC3A	0	0.829826533	0
APOBEC3B	102.3597447	80.49317374	15.55641824
RIBC2	27.51606041	222.3935109	11.11172731
KRT17	255.3490406	4.149132667	33.33518194
EMC4	278.4625313	375.9114196	380.0210742
RNF112	20.91220591	27.3842756	35.55752741
SPECC1	1806.154205	2667.062478	773.3762211
CPA4	8.80513933	9.9579184	38.8910456
DOCK4	3594.698132	665.5208798	3385.743313
POT1	467.7730269	554.3241243	325.5736103
TAS2R16	1.100642416	0	3.333518194
ATP6V1F	178.3040714	156.8372148	135.5630732
LSM8	478.7794511	639.7962572	138.8965914
CDHR3	95.75589022	89.6212656	278.9043556
PRKRIP1	136.4796596	77.1738676	54.44746384
VGF	5.503212081	123.6441535	33.33518194
PODXL	999.383314	834.8054926	493.3606928
FOXP2	97.95717505	26.55444907	35.55752741
STRIP2	41.82441182	218.2443783	70.00388208
IFT22	244.3426164	204.9671537	176.6764643
MKLN1	1863.387611	1160.097494	784.4879484
DNAJB9	358.8094277	185.0513169	95.5608549
FLNC	3590.295562	24.894796	557.8087112
LRRC4	36.32119974	53.10889814	46.66925472
CALU	1952.539647	1130.223738	451.136129
CCDC136	222.3297681	102.8984901	24.44580009

SMO	356.6081429	41.49132667	651.1472206
IRF5	70.44111464	30.70358173	115.5619641
LRRC17	53.9314784	34.02288787	84.44912759
KLHDC10	666.9893043	544.3662059	412.2450834
NDUFA5	414.9421909	350.1867971	207.7893008
FEZF1	5.503212081	13.27722453	4.444690926
OPN1SW	3.301927249	0	11.11172731
MYO1B	1659.768764	3569.913747	2289.015827
HOXD1	128.7751627	14.10705107	36.66870014
HOXD3	44.02569665	36.51236747	56.6698093
MTX2	521.7045053	1287.060953	792.2661575
PDE11A	1298.758051	30.70358173	2532.362655
CHN1	322.488228	1247.22928	5670.314449
GAD1	40.7237694	169.2846128	67.78153662
EIF2S2P4	44.02569665	52.2790716	31.11283648
OSGEPL1	138.6809445	201.6478476	41.11339106
ORMDL1	263.0535375	538.5574202	414.4674288
HAT1	1.100642416	20.74566333	1.111172731
HOXD9	34.11991491	4.149132667	0
HOXD10	140.8822293	18.25618373	2.222345463
HOXD11	5.503212081	6.638612267	1.111172731
HOXD13	114.4668113	7.4684388	41.11339106
HERC2	996.0813867	1030.644554	998.9442856
SNRPN	152.9892959	136.921378	157.7865279
PSMG2	395.1306275	907.8302275	510.0282837
TWSG1	355.5075005	436.4887566	1047.835886
ARHGAP2	86.95075089	59.7475104	93.33850944
WDFY4	338.9978642	78.83352067	238.9021373
EIF2AK4	1696.089964	831.4861864	1246.735805
MYO5C	1385.708802	526.9398487	865.6035578
CGNL1	2202.385475	339.3990521	525.584702
TMOD2	114.4668113	110.3669289	57.78098203
TTBK2	1139.164901	926.9162378	1086.726931
ELL3	0	0.829826533	0
CCDC32	127.6745203	93.77039827	52.22511838
INO80	1431.935784	892.0635234	1096.727486
ICE2	1194.197022	890.4038703	691.149439
DLL4	39.62312699	132.7722453	43.33573653
ALDH1A2	375.319064	73.85456147	61.11450023
MINDY2	845.2933757	262.2251845	392.2439742
IVD	204.7194894	138.5810311	421.1344652
KNSTRN	36.32119974	268.0339703	38.8910456
DUT	179.4047139	522.790716	266.6814555
CHAC1	3.301927249	21.57548987	15.55641824

CLN6	137.580302	180.9021843	104.4502368
ARPP19	316.9850159	864.6792478	123.3401732
VPS13C	9076.998007	5843.638448	5502.527366
CALML4	3.301927249	2.4894796	2.222345463
ISLR	18.71092108	0.829826533	65.55919115
THAP10	29.71734524	18.25618373	43.33573653
LOXL1	281.7644586	65.55629614	94.44968217
ACKR4	13.207709	1.659653067	13.33407278
ANAPC13	214.6252712	278.8217152	270.0149737
MBD4	753.9400552	1097.030677	535.5852566
COPB1	2052.698106	1576.670413	1788.988098
PSMA1	28.61670282	21.57548987	31.11283648
SUMF2	559.1263475	449.7659811	486.6936564
PALLD	3640.925113	924.4267582	565.5869203
SPCS3	309.280519	682.1174104	608.9226568
BBOX1	19.81156349	2.4894796	1.111172731
MYOD1	8.80513933	4.149132667	0
SERGEF	175.0021442	365.9535012	263.3479374
KCNC1	8.80513933	125.3038065	42.22456379
TPH1	28.61670282	47.3001124	24.44580009
CSRP3	5.503212081	0	4.444690926
E2F8	25.31477557	361.8043685	10.00055458
DCTD	212.4239863	293.7585928	202.2334371
SOX15	39.62312699	2.4894796	0
PIMREG	4.402569665	142.7301637	44.44690926
RPAIN	223.4304105	525.2801956	256.680901
USP6	18.71092108	28.21410213	37.77987287
SHBG	1.100642416	2.4894796	27.77931829
PLD2	385.2248457	277.9918887	912.2728125
AIPL1	1.100642416	3.319306133	12.22290005
CD68	2.201284833	0.829826533	0
TXNDC17	134.2783748	291.2691132	127.7848641
ATP1B2	45.12633907	34.02288787	174.4541188
FXR2	436.9550393	809.9106966	728.9293118
KIF1C	2457.734516	1351.787423	1834.54618
MPDU1	203.618847	262.2251845	418.9121198
PHF20L1	1480.36405	1565.882668	711.1505481
DNAAF11	411.6402637	426.5308382	365.5758286
CCNT1	1072.025713	565.1118692	492.24952
PUS7L	865.1049392	390.8482972	318.9065739
KRI1	359.9100701	327.7814807	387.7992833
ILF3	2232.10282	3990.635799	2802.377629
SLC44A2	851.8972302	1101.17981	1798.988652
AP1M2	374.2184215	541.8767263	1220.067659

CDKN2D	18.71092108	283.8006744	55.55863657
MTUS1	3027.867287	405.7851748	2246.791263
KLK14	6.603854498	28.21410213	43.33573653
SIGLEC9	34.11991491	24.06496947	72.22622754
KLK10	9.905781747	6.638612267	20.00110917
KLK8	0	0.829826533	0
NGDN	260.8522527	348.527144	192.2328825
RIPK3	1.100642416	0	0
ADCY4	8.80513933	1.659653067	23.33462736
RAB2B	701.1092192	841.4441048	620.0343841
BCL2L2	148.5867262	177.5828781	154.4530097
AJUBA	175.0021442	12.447398	100.0055458
DTD2	83.64882364	117.0055412	71.11505481
PARP2	124.372593	52.2790716	26.66814555
HEATR5A	526.107075	656.3927879	438.9132289
FOXA1	4687.636051	2342.600304	6823.711744
SNX6	1004.886526	1370.043607	960.05324
EAPP	665.8886619	975.0461767	776.7097393
EGLN3	91.35332055	205.7969803	107.7837549
MIS18BP1	1008.188453	3624.682298	537.807602
NRL	0	1.659653067	2.222345463
RNASE1	337.8972218	877.1266458	1153.397295
NEDD8	7.704496914	1.659653067	1.111172731
DAD1	453.4646755	676.3086247	515.5841474
TEP1	41.82441182	90.45109214	122.2290005
EPB41L4A	525.0064326	238.1602151	502.2500746
CDO1	36.32119974	4.149132667	71.11505481
REEP5	773.7516187	329.4411337	620.0343841
ITFG1	1533.194886	2525.162141	1805.655689
QRICH2	151.8886534	122.8143269	435.5797107
FOXJ1	48.42826632	463.0432056	15.55641824
SEC14L1	1631.152061	1696.165434	1530.084851
RHBDF2	203.618847	140.2406841	538.9187747
AANAT	0	2.4894796	4.444690926
ARHGEF6	650.479668	139.4108576	222.2345463
MAP7D3	198.1156349	215.7548987	236.6797918
FGF13	299.3747372	25.72462253	133.3407278
ASH2L	858.5010847	1782.467394	597.8109295
TTI2	100.1584599	174.263572	114.4507913
ART1	1.100642416	24.894796	10.00055458
CHRNA10	8.80513933	4.9789592	26.66814555
CDKN1C	1.100642416	1.659653067	6.667036389
SGO1	60.5353329	690.4156758	28.89049102
RPS4Y1	782.556758	141.0705107	214.4563372

CDH15	3.301927249	6.638612267	2.222345463
KLF16	57.23340565	182.5618373	237.7909645
PGAP6	586.6424079	1145.160616	1415.63406
DOHH	46.22698148	73.85456147	191.1217098
MAU2	491.9871601	385.0395115	710.0393754
SHC2	201.4175622	165.1354801	1105.616868
PLPPR3	7.704496914	14.9368776	10.00055458
ABHD17A	184.9079259	162.6460005	248.9026918
LBP	0	4.9789592	22.22345463
SYT5	3.301927249	66.38612267	4.444690926
TNNI3	3.301927249	6.638612267	46.66925472
CBFA2T3	113.3661689	105.3879697	37.77987287
GAMT	113.3661689	173.4337455	447.8026108
PUDP	93.55460539	37.342194	106.6725822
ERMARD	13.207709	15.76670413	104.4502368
PHF10	1294.355482	1991.58368	1497.860842
PRRG3	0	0	5.555863657
GALNT8	5.503212081	2.4894796	15.55641824
KCNA5	3.301927249	4.149132667	16.66759097
CRACR2A	163.99572	34.02288787	80.00443666
STARD8	122.1713082	70.53525534	138.8965914
NALF2	46.22698148	79.6633472	31.11283648
GDPD2	1.100642416	4.149132667	30.00166375
SAT1	1022.496805	433.999277	950.0526854
GNL3L	615.2591107	849.7423702	935.6074399
SH3BP4	1488.068547	1313.615402	1700.094279
MOSPD2	302.6766645	401.6360421	298.9054648
DOCK6	1249.229142	847.2528906	2350.130327
ECSIT	220.1284833	297.9077255	450.0249562
LDLR	438.0556817	644.7752164	1052.280577
ELOF1	102.3597447	209.1162864	152.2306642
TSPAN16	3.301927249	0	7.77820912
ANGPTL8	1.100642416	0.829826533	1.111172731
PRKCSH	2330.059995	2467.074284	2683.482146
CNN1	2392.796613	6.638612267	12.22290005
CDC16	714.3169282	611.5821551	462.2478563
ZSCAN10	2.201284833	2.4894796	3.333518194
THEM6	73.74304189	104.5581432	170.0094279
NECTIN2	694.5053647	368.4429808	1206.733586
APOE	285.0663858	190.8601027	530.0293929
TOMM40	70.44111464	277.1620621	143.3412824
APOC1	27.51606041	48.12993894	43.33573653
GADD45G	19.81156349	180.0723577	42.22456379
LRCH2	529.4090022	27.3842756	22.22345463

DPP6	12.10706658	3.319306133	24.44580009
XPO7	1391.212014	2090.333038	1531.196024
ACE2	0	0.829826533	4.444690926
FAM98C	86.95075089	105.3879697	308.9060193
SAFB2	1439.640281	1315.275055	872.2705942
RPL36	1096.239847	956.789993	1433.412824
ATP8B3	29.71734524	68.04577574	50.00277291
NCAN	7.704496914	114.5160616	14.44524551
KIF1A	179.4047139	5888.449081	1398.966469
GTPBP3	77.04496914	166.7951332	136.674246
PLVAP	266.3554647	413.2536136	155.5641824
BST2	280.6638162	39.00184707	60.0033275
SLC27A1	179.4047139	163.4758271	836.7130668
NSUN5	117.7687385	75.51421454	71.11505481
USHBP1	8.80513933	9.128091867	12.22290005
COLGALT	594.3469048	1537.668566	1078.948722
DDA1	94.6552478	234.0110824	91.11616398
MRPL34	62.73661773	87.131786	93.33850944
PGLS	243.241974	212.4355925	867.8259033
LSM7	278.4625313	429.8501443	636.7019751
TULP4	2306.946505	3177.405796	4111.339106
SNX9	1227.216294	927.7460643	1153.397295
RTN4IP1	79.24625397	154.3477352	121.1178277
QRSL1	205.8201318	256.4163988	123.3401732
MTRES1	199.2162773	131.9424188	64.44801842
RSPH3	660.3854498	512.8327976	523.3623565
MAS1	16.50963624	2.4894796	0
ACSBG2	6.603854498	4.9789592	43.33573653
MLLT1	970.7666112	546.025859	1070.05934
FUT5	0	0.829826533	0
BMP15	8.80513933	2.4894796	14.44524551
AFDN	6870.209963	4651.17772	10842.82351
ACTN4	2.201284833	0	0
STK33	117.7687385	292.9287663	68.89270935
NDUFA10	835.387594	1268.80477	908.9392943
EPO	16.50963624	4.149132667	3.333518194
ARPC1B	11.00642416	10.78774493	40.00221833
CACNG6	2.201284833	2.4894796	3.333518194
ZSWIM6	1266.839421	1425.641984	1867.881362
FCHO1	67.13918739	53.10889814	47.78042745
UNC13A	28.61670282	1181.672984	122.2290005
MAP1S	490.8865177	566.7715223	1284.515678
KLHDC7B	26.41541799	8.298265334	0
PXDN	1724.706666	1602.395036	1324.517896

SSBP4	169.4989321	184.2214904	336.6853376
GDF15	319.1863007	186.71097	275.5708374
PGPEP1	291.6702403	170.9442659	207.7893008
IQCN	430.3511848	198.3285415	871.1594214
LSM4	180.5053563	742.6947474	384.4657651
JUND	563.5289171	1877.897445	2644.591101
HRC	15.40899383	16.59653067	26.66814555
TRPM4	751.7387703	141.0705107	1077.837549
OR11H1	7.704496914	0	0
SULT4A1	8.80513933	58.08785734	1.111172731
ZNF557	321.3875856	355.1657563	253.3473828
CRB3	41.82441182	38.17202053	81.11560939
OLFM1	78.14561156	552.6644712	24.44580009
CAMSAP1	996.0813867	2369.984579	1438.968687
UBAC1	345.6017187	713.6508187	664.4812934
ZBTB46	108.9635992	129.4529392	415.5786016
HELZ2	607.5546138	454.7449403	3063.503221
SAMD10	58.33404806	38.17202053	63.33684569
H19	2.201284833	2.4894796	0
COL5A1	2633.837302	791.6545128	495.5830382
ATXN10	2383.991474	872.9775131	974.4984855
TUBGCP2	1001.584599	1186.651943	2359.019709
CALY	2.201284833	16.59653067	6.667036389
CYP2E1	267.4561072	222.3935109	460.0255108
PNPLA7	704.4111464	52.2790716	980.0543491
PAK4	615.2591107	469.6818179	860.0476941
MNX1	9.905781747	1.659653067	3.333518194
ZNF337	1218.411155	1063.007789	1377.854187
CEP85	169.4989321	671.3296655	196.6775735
TAF4	238.8394043	262.2251845	242.2356555
GATA5	56.13276323	45.64045934	55.55863657
RBBP8NL	53.9314784	32.3632348	134.4519005
LAMA5	2201.284833	2703.574846	6914.827908
OSBPL2	778.1541883	897.0424826	837.8242395
ADRM1	486.483948	619.0505939	797.8220212
ASS1	74.84368431	131.1125923	217.7898554
PRDM12	2.201284833	0	10.00055458
EXOSC2	192.6124229	555.1539508	185.5658462
POMT1	421.5460454	289.6094601	936.7186126
UCK1	130.9764475	229.0321232	254.4585555
FIBCD1	2.201284833	66.38612267	0
CHMP2A	653.7815953	572.580308	623.3679023
UBE2M	203.618847	485.448522	380.0210742
TRIM28	1016.993593	2099.461129	2019.000853

METTL26	171.7002169	281.3111948	336.6853376
YIPF2	485.3833056	182.5618373	492.24952
ATG4D	79.24625397	212.4355925	353.3529286
EIF2S3	3087.301978	5612.116845	2162.342135
TMEM160	36.32119974	47.3001124	41.11339106
ZC3H4	1105.044986	884.5950846	1601.199906
NPAS1	2.201284833	4.9789592	18.88993643
GMFG	3.301927249	0	0
MAP3K10	145.284799	104.5581432	341.1300286
ARHGEF1	97.95717505	128.6231127	527.8070474
LRRC47	313.6830886	207.4566333	744.4857301
SMPDL3B	115.5674537	137.7512045	220.0122008
THEMIS2	161.7944352	95.43005134	92.22733671
CLIP1	3546.269865	2062.948762	2560.141973
CCDC62	42.92505424	26.55444907	20.00110917
HIP1R	356.6081429	302.8866847	830.0460304
ZNF317	431.4518272	553.4942978	542.2522929
PPAN	4.402569665	11.61757147	0
EIF3G	674.6938012	496.236267	906.7169489
ANGPTL6	5.503212081	4.149132667	3.333518194
SHFL	192.6124229	103.7283167	318.9065739
DNMT1	915.7344904	4851.165914	1140.063222
ZNF426	400.6338395	479.6397363	681.1488844
SLC6A8	209.1220591	241.4795212	718.9287572
PNCK	38.52248457	6.638612267	15.55641824
DKC1	611.9571835	1511.943944	558.9198839
PLXNA3	1180.989313	756.8017984	2077.893008
DUSP9	2.201284833	36.51236747	11.11172731
MPP1	244.3426164	363.4640216	556.6975385
ZNF331	279.5631737	198.3285415	166.6759097
ZNF236	834.2869516	672.159492	823.378994
SLC7A10	4.402569665	8.298265334	23.33462736
LRP3	235.5374771	262.2251845	373.3540378
MTRFR	78.14561156	191.6899292	41.11339106
NOL11	782.556758	1157.608014	631.1461115
UBE4B	1511.182038	1937.644955	2740.151956
CASZ1	1788.543926	1568.372148	3983.554242
PKDREJ	34.11991491	12.447398	27.77931829
NUTM2F	5.503212081	3.319306133	11.11172731
HABP4	216.826556	265.5444907	263.3479374
FBP2	2.201284833	3.319306133	3.333518194
SLC35D2	52.83083598	39.00184707	60.0033275
PRRG1	189.3104956	78.00369414	20.00110917
UBA1	2522.672418	2378.282845	4856.936009

RGN	104.5610295	5.808785734	0
POLN	6.603854498	13.27722453	7.77820912
PPIL4	1434.137068	1716.081271	945.6079945
ULBP2	3.301927249	217.4145517	148.897146
AKAP12	1842.475405	370.1026339	1425.634614
SYNE1	10462.70681	1756.742771	5791.432276
ULBP3	12.10706658	80.49317374	62.22567296
LATS1	3134.629602	2958.331591	2164.564481
EPS8L1	72.64239948	6.638612267	7.77820912
LILRB2	0	0.829826533	0
AAR2	225.6316953	227.3724701	357.7976195
TTLL9	13.207709	35.68254093	31.11283648
BPIFA2	5.503212081	16.59653067	23.33462736
RBM39	4623.798791	3853.714421	4702.482999
COX4I2	12.10706658	19.08601027	0
BPIFA3	2.201284833	0.829826533	5.555863657
ZNF341	225.6316953	100.4090105	183.3435007
GGT7	311.4818038	222.3935109	550.0305021
DEFB118	2.201284833	0	2.222345463
ACSS2	318.0856583	107.0476228	305.5725011
EDA2R	44.02569665	4.149132667	17.7787637
ARHGEF9	810.0728184	420.7220524	341.1300286
C1QL1	8.80513933	3225.535735	27.77931829
GFAP	4.402569665	2.4894796	7.77820912
PYY	2.201284833	3.319306133	1.111172731
HIGD1B	3.301927249	11.61757147	4.444690926
ATP6V1E1	501.8929418	421.551879	432.2461925
ZNF227	476.5781663	673.8191451	367.7981741
ZNF428	141.9828717	227.3724701	258.9032464
TEX101	2.201284833	25.72462253	8.889381852
ZNF141	370.9164943	375.9114196	288.9049102
CCL25	0	4.9789592	0
COX4I1	968.5653263	1335.190892	1016.723049
EMC8	78.14561156	128.6231127	118.8954823
GSE1	945.4518356	1326.892627	762.2644938
GINS2	16.50963624	614.9014612	10.00055458
CHMP1A	118.869381	365.9535012	386.6881105
SH3BGRL	346.7023611	362.6341951	187.7881916
COX7B	336.7965794	1024.005942	173.3429461
SLC34A1	5.503212081	5.808785734	1.111172731
F12	26.41541799	63.06681654	35.55752741
PRR7	37.42184215	46.47028587	32.22400921
NFATC1	296.07281	246.4584804	337.7965104
IDO1	20.91220591	4.9789592	62.22567296

CAP1	1418.728075	2369.154753	1402.299987
PPT1	1522.188462	2182.443783	1376.743014
RAB11FIP	211.3233439	462.2133791	248.9026918
RLIM	990.5781747	1648.865322	890.0493579
CDX4	1.100642416	0.829826533	0
ABCB7	430.3511848	994.132187	588.9215477
TRAF3	391.8287002	362.6341951	351.1305831
HAUS8	86.95075089	222.3935109	92.22733671
ADGRE3	15.40899383	14.10705107	14.44524551
MRPS25	169.4989321	351.0166236	166.6759097
SH3BP5	320.2869431	439.8080627	306.6836739
HACL1	706.6124313	587.5171856	1062.281131
TBC1D5	922.3383449	929.4057174	1035.612986
CAPN7	1492.471117	1441.408688	1240.068768
RFTN1	367.614567	171.7740924	138.8965914
C3orf20	27.51606041	9.128091867	51.11394565
RBSN	40.7237694	87.131786	13.33407278
GALNT15	20.91220591	97.0897044	222.2345463
SLC6A6	179.4047139	423.211532	174.4541188
KCNC3	214.6252712	305.3761643	270.0149737
NAPSA	6.603854498	7.4684388	14.44524551
NR1H2	353.3062156	342.7183583	1130.062668
LRRC4B	38.52248457	42.3211532	13.33407278
PDLIM4	160.6937928	8.298265334	50.00277291
KIF3A	944.3511932	1084.583279	565.5869203
MGAT1	648.2783832	935.2145031	1568.975897
GFPT2	333.4946521	99.579184	210.0116462
TUBG1	533.8115719	2774.939928	562.2534021
PSME3	429.2505424	769.2491964	543.3634657
RPL27	1032.402586	1009.898891	993.3884219
PSMC3IP	33.01927249	207.4566333	17.7787637
AOC3	353.3062156	19.08601027	50.00277291
ACLY	5855.417655	4411.357851	5412.522375
VPS25	309.280519	398.316736	453.3584744
RAMP2	133.1777324	43.15097974	275.5708374
AOC2	51.73019357	73.85456147	115.5619641
G6PC1	0	1.659653067	20.00110917
NDUFA2	53.9314784	106.2177963	220.0122008
ANKHD1	22.01284833	18.25618373	16.66759097
DIAPH1	1478.162765	1699.48474	986.7213855
NDFIP1	1078.629568	1237.271361	2129.006953
UBE2D2	219.0278408	614.0716347	192.2328825
EXOC4	1745.618872	1031.474381	1478.970906
ACAP3	148.5867262	126.9634596	372.242865

C1orf159	82.54818122	61.40716347	190.0105371
ANO1	812.2741032	316.9937357	70.00388208
PPFIA1	101.2591023	58.91768387	63.33684569
TMEM204	42.92505424	39.00184707	28.89049102
KREMEN2	7.704496914	51.44924507	5.555863657
THOC6	64.93790256	145.2196433	178.8988098
TRAF7	477.6788087	839.7844518	1197.844204
BARX1	2.201284833	427.3606647	38.8910456
NINJ1	424.8479727	261.395358	320.0177467
CA6	4.402569665	17.4263572	20.00110917
NPHP4	177.203429	650.5840022	704.4835117
MAP1B	8517.87166	7157.25385	12722.92777
RHOXF2	1.100642416	0	2.222345463
IL13RA1	1281.147773	921.9372786	900.0499125
WDR44	769.349049	866.3389008	641.146666
CKMT2	27.51606041	10.78774493	1.111172731
ZCCHC9	203.618847	151.0284291	61.11450023
KRT34	0	0	1.111172731
TNS4	408.3383364	4.149132667	13.33407278
TOP2A	594.3469048	17967.4041	160.0088733
STARD3	224.5310529	255.5865723	556.6975385
RARA	323.5888704	159.3266944	305.5725011
PPP1R1B	85.85010847	1.659653067	76.67091847
KHDRBS3	214.6252712	25.72462253	44.44690926
CHD1L	35.22055732	73.85456147	47.78042745
PEX11B	81.44753881	85.47213294	223.345719
FMO5	150.788011	53.93872467	124.4513459
PIAS3	724.2227099	645.605043	1788.988098
PRKAB2	214.6252712	151.0284291	177.787637
CLUHP3	0	0.829826533	0
PDHA1	983.9743202	1621.481046	557.8087112
RAI2	468.8736693	429.0203178	812.2672667
MCCC2	1155.674537	219.0742048	567.8092658
ZNF304	211.3233439	229.8619497	163.3423915
ZSCAN5A	95.75589022	196.6688884	247.7915191
ZNF132	84.74946605	122.8143269	238.9021373
USP29	4.402569665	6.638612267	12.22290005
SELENOS	366.5139246	179.2425312	166.6759097
CHSY1	1298.758051	794.973819	757.8198028
SNRPA1	202.5182046	215.7548987	72.22622754
KRT17P1	0	0	1.111172731
LLGL1	126.5738779	175.0933985	457.8031654
NR0B2	0	252.2672661	1.111172731
LIN28A	3.301927249	3.319306133	11.11172731

THAP1	318.0856583	461.3835526	102.2278913
RHPN2	655.9828801	428.1904912	1188.954823
C19orf12	69.34047223	84.6423064	130.0072096
FAAP24	4.402569665	50.61941854	24.44580009
LRRC9	121.0706658	2.4894796	11.11172731
ACTR10	668.0899467	1248.888933	995.6107674
ABHD12B	9.905781747	4.9789592	30.00166375
GCH1	115.5674537	985.0040951	245.5691736
LGALS3	708.8137161	222.3935109	401.133356
PODNL1	1.100642416	0	0
DNAJB1	1044.509653	2491.139253	955.608549
FBXW9	74.84368431	74.684388	498.9165564
ZNF20	5.503212081	8.298265334	0
RTBDN	4.402569665	146.0494699	18.88993643
MATN3	16.50963624	87.131786	167.7870824
TRIM21	248.7451861	88.79143907	145.5636278
SPATA6	627.3661773	442.2975423	533.3629111
LRRC41	852.9978726	313.6744296	1547.863615
CCT6B	62.73661773	23.23514293	74.44857301
DHX30	777.0535459	719.4596044	902.2722579
RAF1	1427.533214	1715.251444	2081.226526
SLC6A11	44.02569665	117.8353677	288.9049102
PPARG	115.5674537	82.98265334	418.9121198
NUP210	1249.229142	4324.226065	1972.331598
FCRLA	1.100642416	1.659653067	2.222345463
HSD17B7	105.661672	170.1144393	143.3412824
ENOSF1	1040.107083	532.7486344	1284.515678
LINC0047(	1.100642416	0	0
EMILIN2	226.7323378	102.0686636	85.56030032
ARFIP2	672.4925164	392.5079503	495.5830382
TRIM5	214.6252712	153.5179087	192.2328825
CNGA4	4.402569665	1.659653067	28.89049102
TRIM22	577.8372686	116.1757147	411.1339106
RRP8	221.2291257	91.28091867	172.2317734
TIMM10B	74.84368431	82.98265334	10.00055458
EFR3A	2248.612456	1926.027384	988.943731
HHLA1	5.503212081	4.149132667	12.22290005
PTCD3	959.760187	1385.810311	668.9259843
IMMT	1197.498949	2851.283969	1595.644042
MRPL35	125.4732355	321.9726949	204.4557826
IQCA1	55.03212081	5.808785734	474.4707563
ILKAP	249.8458285	429.0203178	358.9087923
PER2	860.7023695	277.1620621	510.0282837
RAMP1	180.5053563	287.9498071	1028.945949

SCLY	19.81156349	39.8316736	16.66759097
PTPRE	210.2227015	116.1757147	152.2306642
RAN	729.725922	2108.589221	740.0410391
PRKAA1	1657.567479	773.3983291	695.5941299
CARD6	184.9079259	125.3038065	116.6731368
RAP1GAP	523.9057902	1155.948361	401.133356
CLUH	1097.340489	1248.888933	1537.86306
INPP5K	182.7066411	328.6113072	548.9193293
MYBBP1A	797.9657518	774.2281556	1441.191033
RPA1	922.3383449	1985.774894	865.6035578
SERPINF1	1725.807309	448.9361546	594.4774113
UBE2G1	606.4539714	898.7021356	382.2434196
EEFSEC	26.41541799	24.894796	48.89160018
TBC1D14	803.4689639	614.0716347	1206.733586
TMEM128	55.03212081	75.51421454	142.2301096
COQ3	40.7237694	100.4090105	52.22511838
PNISR	4590.779518	2020.627609	3081.281984
POPDC3	8.80513933	13.27722453	27.77931829
SEC61G	333.4946521	403.2956952	146.6748005
LANCL2	228.9336226	258.9058784	214.4563372
FIGNL1	315.8843735	782.526421	116.6731368
DDC	8.80513933	1594.926597	42.22456379
FTHL17	0	0.829826533	0
GRSF1	1238.222718	1650.524975	1292.293887
ENAM	18.71092108	6.638612267	36.66870014
JCHAIN	523.9057902	5.808785734	2.222345463
ANKRD17	12003.60619	9670.79842	6998.165863
UTP3	334.5952946	338.5692256	140.0077642
ITGB4	1397.815869	38.17202053	1865.659016
WBP2	1034.603871	959.2794726	1698.983106
H3-3B	900.3254965	2212.317538	1966.775735
UNK	693.4047223	578.3890938	1002.277804
TRIM47	114.4668113	114.5160616	67.78153662
ZRANB2	1530.993601	1207.397606	825.6013395
EIF5A	1.100642416	0.829826533	1.111172731
KDM6B	2601.918672	1903.622068	2717.928501
CLEC10A	38.52248457	2.4894796	32.22400921
SLC52A1	2.201284833	2.4894796	7.77820912
GUCY2D	13.207709	4.149132667	13.33407278
XAF1	334.5952946	98.74935747	107.7837549
DLG4	197.0149925	366.7833277	273.3484919
RIDA	154.0899383	318.6533888	134.4519005
VPS13B	8314.252813	8851.759631	14088.55906
RGS22	221.2291257	90.45109214	177.787637

MATN2	1130.359762	223.2233375	740.0410391
REEP2	24.21413316	29.04392867	35.55752741
PCBD2	46.22698148	84.6423064	27.77931829
SDF2	182.7066411	367.6131543	455.5808199
FLOT2	756.14134	740.2052678	1338.963141
ERAL1	264.1541799	440.6378892	403.3557015
PRMT7	241.0406892	234.0110824	511.1394565
NIP7	53.9314784	133.6020719	93.33850944
TERF2	480.9807359	380.0605523	267.7926283
VPS4A	44.02569665	42.3211532	11.11172731
MTSS2	1028.000017	553.4942978	917.8286762
HSPA12B	40.7237694	19.9158368	94.44968217
ANKEF1	331.2933673	713.6508187	281.1267011
SCP2D1	0	3.319306133	0
PCED1A	628.4668197	276.3322356	956.7197218
SNAP25	33.01927249	341.0587052	30.00166375
BTBD3	373.1177791	1871.258833	964.4979309
PCNA	627.3661773	5918.322836	405.578047
NXT1	128.7751627	271.3532764	121.1178277
POLR3F	278.4625313	424.8711851	161.1200461
RIN2	1262.436851	214.0952456	815.6007849
PTPRA	4121.905849	2560.014855	1984.554498
SSTR4	6.603854498	3.319306133	4.444690926
DAP3	742.933631	624.8593796	843.3801032
RHBG	2.201284833	0.829826533	47.78042745
KHDC4	1313.066403	1021.516463	1063.392304
ATP1A4	8.80513933	2.4894796	31.11283648
NES	869.5075089	419.8922259	190.0105371
BCAN	1.100642416	0.829826533	6.667036389
CRP	0	2.4894796	7.77820912
ARHGEF1	1456.149917	1892.004496	2546.8079
RAB25	429.2505424	174.263572	488.9160018
APCS	0	1.659653067	3.333518194
FCRL2	9.905781747	3.319306133	11.11172731
DCAF8	92.45396297	133.6020719	95.5608549
SYT11	159.5931504	129.4529392	51.11394565
IGHMBP2	289.4689555	279.6515417	620.0343841
ACY3	1.100642416	0.829826533	41.11339106
ALDH3B2	33.01927249	5.808785734	32.22400921
TESMIN	90.25267814	239.8198681	115.5619641
MMACHC	152.9892959	91.28091867	156.6753551
DPH2	110.0642416	103.7283167	306.6836739
TOE1	100.1584599	141.9003372	108.8949277
NASP	1164.479676	2491.96908	1162.286677

MUTYH	15.40899383	24.894796	67.78153662
CTNNBL1	854.098515	599.1347571	308.9060193
LPIN3	298.2740948	14.10705107	113.3396186
ZSWIM3	93.55460539	81.32300027	80.00443666
RBM38	224.5310529	619.8804204	94.44968217
VSTM2L	540.4154264	7.4684388	264.4591101
OSER1	531.6102871	598.3049306	578.9209931
SERINC3	2325.657426	1352.617249	1758.986434
PPP1R3D	28.61670282	72.1949084	95.5608549
DMGDH	94.6552478	4.9789592	71.11505481
BHMT2	104.5610295	2.4894796	18.88993643
AP3B1	1406.621008	1348.468117	913.3839852
ZBED3	136.4796596	118.6651943	22.22345463
PATJ	6557.627516	4128.387003	6092.560086
KANK4	14.30835141	12.447398	12.22290005
ANGPTL3	7.704496914	4.9789592	17.7787637
SYT4	3.301927249	559.3030835	122.2290005
SLC14A2	19.81156349	9.128091867	12.22290005
FBXO44	83.64882364	43.98080627	200.0110917
CASP9	113.3661689	230.6917763	566.698093
NMUR2	2.201284833	0.829826533	7.77820912
DCTN4	900.3254965	741.0350943	808.9337485
PDE6A	8.80513933	4.9789592	46.66925472
ATP8A2	47.3276239	592.4961448	63.33684569
MTUS2	25.31477557	10.78774493	52.22511838
ZMYM5	504.0942267	210.7759395	174.4541188
USPL1	671.3918739	493.7467874	427.8015016
XPO4	562.4282747	733.5666555	630.0349387
TPTE2	11.00642416	4.9789592	4.444690926
POMP	336.7965794	1076.285014	397.7998379
CDK8	343.4004339	415.7430932	230.0127554
ALOX5AP	159.5931504	115.3458881	111.1172731
HMGB1P5	416.0428334	448.9361546	91.11616398
WASF3	323.5888704	190.0302761	688.9270935
RNF17	13.207709	5.808785734	12.22290005
GPR12	1.100642416	4.9789592	2.222345463
CHRM3	5.503212081	19.08601027	50.00277291
MYH8	18.71092108	16.59653067	27.77931829
MYH10	2812.141374	3794.796737	4662.480781
PEMT	121.0706658	258.0760519	331.129474
SCO1	484.2826632	560.13291	434.468538
MPRIP	2317.952929	2873.689285	2701.26091
CHI3L1	11.00642416	14.10705107	0
MYBPH	6.603854498	12.447398	13.33407278

PIK3C2B	1178.788028	737.7157882	998.9442856
DSTYK	472.1755966	394.1676033	423.3568107
CHIT1	41.82441182	12.447398	25.55697282
SLC41A1	340.0985066	226.5426436	506.6947655
LGR6	53.9314784	90.45109214	76.67091847
TMCC2	25.31477557	95.43005134	37.77987287
DCLK1	125.4732355	395.8272564	142.2301096
CCNA1	1.100642416	96.25987787	0
COG6	411.6402637	369.2728073	328.9071285
SPART	1611.340497	334.4200929	535.5852566
RXFP2	5.503212081	2.4894796	0
EPSTI1	93.55460539	40.66150013	34.44635467
TRPC4	380.822276	40.66150013	45.55808199
POSTN	1975.653137	872.1476866	67.78153662
RFXAP	41.82441182	88.79143907	28.89049102
TPT1	8361.580437	4595.579342	5294.738065
GPALPP1	296.07281	324.4621745	224.4568918
STOML3	1.100642416	0	0
KL	40.7237694	9.9579184	1476.74856
RFC3	66.03854498	512.0029711	46.66925472
STARD13	336.7965794	199.158368	428.9126743
IRS4	6.603854498	43.98080627	77.7820912
MORC4	556.9250626	966.7479114	693.3717844
BEX2	373.1177791	1298.678525	485.5824836
RNF128	51.73019357	158.4968679	54.44746384
GNG5B	1.100642416	2.4894796	0
TBC1D8B	797.9657518	232.3514293	456.6919926
TCEAL4	727.5246372	492.9169608	652.2583934
BEX1	22.01284833	1759.232251	85.56030032
FAM104A	592.14562	872.1476866	620.0343841
SLC39A11	101.2591023	72.1949084	691.149439
EPHB2	528.3083598	641.4559103	412.2450834
SRRM1	5497.708869	3474.483695	2533.473828
BTBD2	1169.982889	370.1026339	1722.317734
PRAM1	89.15203572	30.70358173	127.7848641
KMT5C	60.5353329	131.1125923	74.44857301
ZNF414	212.4239863	144.3898168	283.3490465
PDE6B	20.91220591	51.44924507	32.22400921
HSPBP1	75.94432672	198.3285415	347.7970649
CSNK1G2	598.7494745	440.6378892	671.1483298
SLF1	192.6124229	634.817298	163.3423915
CNDP2	812.2741032	610.7523286	928.9404035
MACROD	82.54818122	43.15097974	184.4546734
WDR74	150.788011	268.0339703	220.0122008

LGALS12	1.100642416	1.659653067	0
RTN3	1728.008594	3431.332715	1950.108144
PLAAT4	130.9764475	10.78774493	107.7837549
PLAAT2	1.100642416	3.319306133	23.33462736
MYH11	782.556758	0	6.667036389
CEP20	4.402569665	17.4263572	55.55863657
PDZD2	1801.751635	264.7146641	873.3817669
MORC2	1240.424003	804.1019108	812.2672667
LARGE1	322.488228	446.446675	301.1278102
GSTT2B	15.40899383	7.4684388	0
MYO18B	28.61670282	4.149132667	30.00166375
C1QTNF6	72.64239948	38.17202053	193.3440553
FAM83F	130.9764475	300.3972051	120.006655
SEC14L4	1.100642416	1.659653067	31.11283648
GIMAP6	80.34689639	38.17202053	27.77931829
GIMAP4	270.7580344	97.91953094	42.22456379
ADCK2	156.2912231	121.9845004	166.6759097
MKRN1	1331.777324	1106.988596	1016.723049
AGAP3	615.2591107	294.5884193	694.4829571
KRBA1	137.580302	78.00369414	241.1244827
ACTR3B	216.826556	88.79143907	112.2284459
NTS	1.100642416	24.894796	7.77820912
BTG1	671.3918739	826.5072272	1482.304424
LRRIQ1	498.5910146	443.1273688	248.9026918
C12orf29	277.3618889	297.9077255	148.897146
ATP13A3	1721.404739	5154.052599	2642.368755
SFTPD	22.01284833	16.59653067	86.67147305
DYDC2	2.201284833	47.3001124	1.111172731
TMEM254	227.8329802	129.4529392	393.3551469
TMTC1	347.8030036	319.4832153	745.5969028
KRAS	792.4625397	2427.24261	645.591357
IPO8	1856.783756	2743.406519	2077.893008
LARS1	2359.777341	1765.870863	1838.990871
SPINK5	28.61670282	6.638612267	2.222345463
IMPA1	427.0492575	1557.584403	907.8281216
LRRCC1	195.9143501	1345.978637	387.7992833
E2F5	268.5567496	385.869338	607.8114841
CA1	8.80513933	71.36508187	5.555863657
CCDC59	263.0535375	385.0395115	143.3412824
SWAP70	464.4710997	309.5252969	243.3468282
BMAL1	249.8458285	249.7777865	332.2406467
LYVE1	23.11349074	157.6670413	593.3662386
AMPD3	363.2119974	109.5371024	268.903801
SBF2	2422.513958	1105.328942	2817.934047

MICAL2	1660.869406	796.633472	817.8231303
RRAS2	309.280519	277.1620621	366.6870014
HSD17B4	2525.974345	1742.63572	2805.711147
ZFC3H1	3304.128534	1803.213057	1894.549507
TEX15	42.92505424	61.40716347	20.00110917
SARAF	1904.11138	1552.605444	3189.065739
RNF122	14.30835141	18.25618373	14.44524551
DUSP26	8.80513933	4.149132667	0
DPF2	697.8072919	523.6205426	655.5919115
MEN1	739.6317038	729.4175228	925.6068853
ERG28	329.0920825	367.6131543	288.9049102
GSC	59.43469048	63.06681654	51.11394565
DGLUCY	212.4239863	166.7951332	217.7898554
UNC79	1.100642416	63.06681654	1.111172731
NUMB	1285.550342	853.0616763	1002.277804
CATSPER1	17.61027866	6.638612267	54.44746384
VRTN	2.201284833	2.4894796	8.889381852
COX16	16.50963624	16.59653067	6.667036389
TTC9	107.8629568	95.43005134	75.55974574
MED6	303.7773069	432.3396239	291.1272556
EIF2S1	534.9122143	1371.70326	393.3551469
ADAM20	191.5117804	139.4108576	246.6803464
LOXL2	200.3169198	992.4725339	153.3418369
ELP3	543.7173537	563.4522162	312.2395375
PEBP4	101.2591023	4.9789592	58.89215477
ADAMDEC	39.62312699	26.55444907	10.00055458
CTIF	11.00642416	0.829826533	26.66814555
MRO	1.100642416	8.298265334	34.44635467
MBD2	1390.111372	864.6792478	561.1422294
IER3IP1	16.50963624	59.7475104	5.555863657
MRPS36	11.00642416	179.2425312	18.88993643
CCNB1	64.93790256	792.4843394	84.44912759
CDK7	19.81156349	53.93872467	17.7787637
CD180	107.8629568	37.342194	8.889381852
IRAK2	88.0513933	50.61941854	92.22733671
CAMK1	111.164884	64.7264696	68.89270935
THUMPD3	649.3790256	957.6198195	425.5791561
VHL	895.9229269	1862.960567	1092.282795
BHLHE40	852.9978726	412.4237871	4270.236807
ARL8B	599.8501169	605.7733694	518.9176656
EDEM1	635.0706742	634.817298	746.7080755
CNTN6	18.71092108	14.10705107	12.22290005
CHL1	227.8329802	1734.337455	6018.111513
MEIS2	1165.580319	848.0827171	55.55863657

DPH6	140.8822293	129.4529392	126.6736914
KATNBL1	106.7623144	97.0897044	84.44912759
EMC7	463.3704573	502.0450527	284.4602192
TRPM1	2.201284833	0	0
GNAT2	7.704496914	4.149132667	46.66925472
GSTM1	121.0706658	22.4053164	21.1122819
PRPF38B	669.1905891	515.3222772	342.2412013
REG4	2.201284833	1.659653067	3.333518194
TSPAN2	117.7687385	34.02288787	14.44524551
TSHB	2.201284833	2.4894796	8.889381852
GSTM5	82.54818122	3.319306133	51.11394565
GSTM3	507.3961539	346.8674909	255.5697282
SYT6	9.905781747	13.27722453	33.33518194
VAV3	366.5139246	656.3927879	111.1172731
CHIA	5.503212081	14.9368776	7.77820912
PSRC1	26.41541799	175.9232251	11.11172731
HMGCS2	82.54818122	6.638612267	791.1549848
PTPN22	237.7387619	48.12993894	21.1122819
SORT1	897.0235693	2539.269192	1056.725268
WNT2B	106.7623144	31.53340827	133.3407278
PTGFRN	1005.987168	1135.202698	697.8164753
LAMTOR5	427.0492575	904.5109214	522.2511838
ADAM30	0	0.829826533	22.22345463
NOTCH2	8145.854523	3360.79746	8572.697623
TRIM45	195.9143501	183.3916639	1954.552835
CEPT1	621.8629652	598.3049306	612.256175
CD101	62.73661773	41.49132667	36.66870014
VTCN1	18.71092108	0.829826533	160.0088733
NGF	16.50963624	106.2177963	12.22290005
AP4B1	280.6638162	326.1218276	370.0205196
NAPG	488.6852328	677.9682778	403.3557015
SPIRE1	700.0085768	639.7962572	511.1394565
PPHLN1	578.937911	457.2344199	212.2339917
FKBP11	94.6552478	46.47028587	61.11450023
ARF3	127.6745203	138.5810311	31.11283648
TMEM106	454.5653179	730.2473494	304.4613284
SLC38A2	979.5717505	1029.814728	723.3734482
PLEKHA8	35.22055732	61.40716347	13.33407278
YWHAQ	2643.743084	7163.892463	2679.037455
KIDINS220	4550.055749	4644.539107	4725.817627
GRHL1	329.0920825	252.2672661	471.1372381
ROCK2	3251.297698	3914.291758	2424.5789
RSAD2	41.82441182	25.72462253	37.77987287
MYCN	12.10706658	121.1546739	47.78042745

LPIN1	485.3833056	863.8494212	486.6936564
CMPK2	53.9314784	76.34404107	92.22733671
IAH1	333.4946521	460.553726	375.5763832
SAA2	2.201284833	1.659653067	0
ANO3	20.91220591	7.4684388	66.67036389
IL6ST	4859.336268	4091.874636	4274.681498
FST	49.52890873	1478.750882	10.00055458
CFHR4	1.100642416	0.829826533	0
NAV1	1805.053563	3311.837695	837.8242395
CDC73	1571.71737	1527.710648	1186.732477
TIMM17A	235.5374771	621.5400735	291.1272556
CRB1	28.61670282	21.57548987	156.6753551
CFHR5	1.100642416	0	0
ERN2	19.81156349	7.4684388	57.78098203
RPS15A	124.372593	326.1218276	54.44746384
RAX	1.100642416	0.829826533	0
NARS1	1205.203446	1476.261403	1208.955932
GRP	1.100642416	512.0029711	2.222345463
RELCH	1222.813725	698.7139411	953.3862036
FBH1	1107.246271	1291.210086	1726.762425
RBM17	975.1691808	1663.802199	474.4707563
IL2RA	74.84368431	28.21410213	65.55919115
ANKRD16	144.1841565	72.1949084	442.2467471
ECHDC3	95.75589022	105.3879697	167.7870824
IL15RA	171.7002169	19.9158368	84.44912759
CCNH	444.6595362	234.8409089	235.5686191
HRH4	4.402569665	3.319306133	0
TMEM241	53.9314784	50.61941854	67.78153662
KCTD1	833.1863091	346.8674909	603.3667932
CABLES1	155.1905807	304.5463377	262.2367646
DOCK2	749.5374855	225.7128171	322.2400921
EMP1	246.5439013	410.764134	412.2450834
SOX5	234.4368347	69.7054288	65.55919115
RERG	246.5439013	199.158368	98.8943731
SLCO1B1	7.704496914	22.4053164	7.77820912
KLRD1	27.51606041	9.128091867	4.444690926
KLRC1	9.905781747	4.149132667	20.00110917
SPX	6.603854498	39.8316736	4.444690926
PRH2	0	0.829826533	0
LRP4	298.2740948	4769.842914	691.149439
MYBPC3	18.71092108	14.9368776	85.56030032
DDB2	96.85653263	353.5061032	111.1172731
ACP2	477.6788087	517.8117568	656.7030843
USP26	4.402569665	3.319306133	3.333518194

RTL8C	268.5567496	306.2059908	686.704748
RAB33A	1.100642416	2.4894796	5.555863657
RBMX2	132.07709	219.0742048	123.3401732
STK26	221.2291257	521.131063	98.8943731
FOLH1B	7.704496914	0	25.55697282
PIWIL4	101.2591023	43.98080627	101.1167186
MTNR1B	0	4.9789592	17.7787637
PUM1	4117.503279	4263.648728	4171.342434
SPOCD1	8.80513933	11.61757147	42.22456379
YARS1	608.6552562	891.2336968	508.917111
PHC2	563.5289171	833.1458395	804.4890576
CDCA8	22.01284833	393.3377768	2.222345463
GNL2	1141.366186	1726.039189	807.8225758
AGO4	534.9122143	371.7622869	651.1472206
HOOK1	504.0942267	677.1384512	385.5769378
CYP2J2	815.5760305	44.8106328	85.56030032
BTF3L4	246.5439013	266.3743172	108.8949277
TUT4	5109.182096	2886.96651	3255.736103
PRPF38A	432.5524696	497.0660935	364.4646559
DSC2	1620.145637	1755.912945	565.5869203
DSG3	42.92505424	1.659653067	0
RNF138	208.0214167	419.8922259	58.89215477
ELP2	837.5888788	585.8575326	1564.531206
DSG1	6.603854498	3.319306133	18.88993643
DSC3	314.7837311	12.447398	97.78320037
DSC1	14.30835141	2.4894796	27.77931829
DTNA	336.7965794	307.0358173	85.56030032
FHOD3	801.2676791	1030.644554	911.1616398
TPGS2	430.3511848	750.9930127	600.033275
DAGLA	155.1905807	208.2864599	267.7926283
SLC43A3	71.54175706	28.21410213	21.1122819
TIMM10	128.7751627	554.3241243	158.8977006
CBLIF	0	0.829826533	28.89049102
DHX34	432.5524696	562.6223896	1077.837549
APLNR	2.201284833	33.19306133	95.5608549
FADS2	345.6017187	1355.936556	177.787637
TMEM258	72.64239948	298.737552	277.7931829
TCN1	3.301927249	3.319306133	2.222345463
C5AR2	5.503212081	26.55444907	54.44746384
TMEM165	1342.783748	1601.565209	906.7169489
CLOCK	1674.077115	2400.688161	934.4962671
PDGFRA	506.2955115	92.94057174	207.7893008
GGACT	22.01284833	14.9368776	21.1122819
COL4A2	3712.46687	2408.1566	830.0460304

CLDN10	5.503212081	0	0
DZIP1	692.3040799	509.5134915	425.5791561
UBAC2	440.2569665	308.6954704	370.0205196
ARGLU1	847.4946605	363.4640216	488.9160018
BIVM	18.71092108	19.08601027	1.111172731
ERCC5	11.00642416	5.808785734	23.33462736
TPP2	1772.03429	1769.190169	576.6986476
POGLUT2	78.14561156	95.43005134	54.44746384
CARS2	519.5032205	461.3835526	556.6975385
ARHGAP3	1947.036434	2022.287262	3834.657096
STT3A	2412.608177	2126.845405	2204.566699
ADAMTS8	78.14561156	4.9789592	22.22345463
ACRV1	5.503212081	3.319306133	0
ETS1	548.1199233	633.9874715	168.8982552
SLC37A2	49.52890873	38.17202053	43.33573653
KLB	11.00642416	4.149132667	46.66925472
TMED7	115.5674537	141.9003372	48.89160018
APC	2622.830878	1896.153629	1370.075978
NREP	302.6766645	190.8601027	140.0077642
WDR36	895.9229269	711.1613391	445.5802653
OSTF1	652.6809529	779.2071148	368.9093468
RFK	93.55460539	307.0358173	157.7865279
UBQLN1	1986.659561	3180.725102	2362.353227
NAA35	1083.032138	1315.275055	792.2661575
C9orf40	20.91220591	187.5407965	15.55641824
ANXA1	730.8265644	321.1428684	1243.402286
CTSL	1086.334065	1092.051718	1501.19436
CEMIP2	1296.556766	3746.666798	4028.001151
AGTPBP1	1109.447556	2808.132989	1905.661234
GOLM1	6817.379127	1397.427882	1797.877479
ENTREP1	472.1755966	29.8737552	65.55919115
PSAT1	91.35332055	223.2233375	254.4585555
ISCA1	188.2098532	393.3377768	180.0099825
ADAM19	322.488228	316.1639092	65.55919115
HAVCR2	103.4603871	43.98080627	48.89160018
CCNJL	69.34047223	98.74935747	56.6698093
TAOK3	3290.920825	516.9819303	801.1555394
USP30	392.9293426	341.8885317	384.4657651
SDS	5.503212081	16.59653067	1.111172731
MSI1	100.1584599	250.6076131	173.3429461
HNF1A	6.603854498	4.149132667	8.889381852
FBXO21	802.3683215	1204.908126	1190.065995
TBX3	2704.278417	347.6973175	4730.262318
OASL	30.81798766	10.78774493	3.333518194

HRK	2.201284833	3.319306133	0
RNFT2	38.52248457	198.3285415	207.7893008
P2RX4	312.5824462	326.1218276	380.0210742
BICDL1	129.8758051	463.8730322	327.7959558
DTX1	61.63597531	97.0897044	48.89160018
TRAFD1	639.4732439	598.3049306	677.8153662
DMTF1	1320.7709	769.2491964	956.7197218
OCM2	0	0.829826533	4.444690926
TMEM243	53.9314784	42.3211532	12.22290005
CCDC146	169.4989321	93.77039827	103.339064
TMEM60	35.22055732	58.91768387	36.66870014
CD36	53.9314784	120.3248473	27.77931829
CSN2	1.100642416	0	11.11172731
UGT2B28	1.100642416	2.4894796	12.22290005
PNPLA8	753.9400552	901.1916152	458.9143381
HILPDA	24.21413316	51.44924507	24.44580009
GARIN1B	28.61670282	1.659653067	27.77931829
RINT1	433.653112	367.6131543	306.6836739
SRPK2	1207.404731	822.3580946	492.24952
KCP	17.61027866	14.10705107	56.6698093
TES	359.9100701	250.6076131	194.455228
MDFIC	94.6552478	63.06681654	77.7820912
MTO1	334.5952946	283.8006744	365.5758286
ADGRB3	49.52890873	991.6427074	72.22622754
ANKRD6	161.7944352	144.3898168	186.6770189
HTR1B	8.80513933	9.128091867	2.222345463
KHDC1	13.207709	40.66150013	7.77820912
CEP162	466.6723845	507.0240119	253.3473828
SYNCRIP	175.0021442	363.4640216	31.11283648
SNX14	100.1584599	101.2388371	77.7820912
NT5E	214.6252712	75.51421454	320.0177467
MRAP2	5.503212081	16.59653067	2.222345463
EPHA7	1229.417579	814.0598292	645.591357
AKIRIN2	168.3982897	215.7548987	65.55919115
ORC3	462.2698148	519.4714099	470.0260654
LCA5	243.241974	463.8730322	82.22678213
MAP3K7	880.513933	683.7770635	625.5902478
CGA	0	4.149132667	0
GJA10	1.100642416	0	0
PRR5L	53.9314784	19.08601027	28.89049102
LMO2	39.62312699	70.53525534	58.89215477
PHF21A	2168.26556	1626.460005	1365.631287
NAT10	893.721642	425.7010116	522.2511838
EHF	2089.019306	30.70358173	957.8308945

ELF5	117.7687385	1.659653067	7.77820912
PRRG4	106.7623144	161.816174	47.78042745
CAPRIN1	3013.558936	3930.888289	2205.677872
ATP5MC2	878.3126482	862.1897682	676.7041934
DNAJC14	249.8458285	351.0166236	325.5736103
CD63	1991.062131	1378.341872	2036.779617
PRPH	0	6.638612267	11.11172731
AVIL	181.6059987	21.57548987	136.674246
AMHR2	4.402569665	0.829826533	4.444690926
LACRT	7.704496914	0	14.44524551
GDF11	143.0835141	79.6633472	25.55697282
GLS2	45.12633907	49.789592	20.00110917
ITGA7	364.3126398	87.131786	272.2373192
TESPA1	141.9828717	8.298265334	22.22345463
FAM186B	9.905781747	4.149132667	35.55752741
RDH5	6.603854498	3.319306133	0
AGAP2	92.45396297	71.36508187	67.78153662
BLOC1S1	29.71734524	29.8737552	57.78098203
KRT85	5.503212081	0	5.555863657
CDK4	253.1477557	418.2325728	265.5702828
PPP1R1A	20.91220591	69.7054288	46.66925472
TROAP	67.13918739	243.1391743	41.11339106
TSPAN31	156.2912231	79.6633472	192.2328825
B4GALNT	42.92505424	241.4795212	281.1267011
TFCP2	1294.355482	638.9664307	840.046585
COQ10A	89.15203572	76.34404107	21.1122819
FAIM2	95.75589022	2.4894796	40.00221833
PAN2	857.4004423	415.7430932	635.5908024
ESPL1	7.704496914	121.1546739	33.33518194
KRT7	167.2976473	4.149132667	3.333518194
ZC3H10	175.0021442	155.1775617	126.6736914
HNRNPA1	3014.659578	3486.931093	1480.082078
SLC26A10	5.503212081	1.659653067	5.555863657
ACVR1B	355.5075005	235.6707355	316.6842285
OS9	1721.404739	1394.938403	2232.346017
MIP	0	1.659653067	0
KCNH3	12.10706658	76.34404107	26.66814555
LTV1	145.284799	136.0915515	64.44801842
MAP7	1043.409011	796.633472	1112.283904
CD164	1553.006449	1224.823963	1795.655134
AFG1L	72.64239948	78.83352067	66.67036389
NHSL1	445.7601786	967.5777379	985.6102128
AHI1	2600.81803	2839.666397	1677.870824
HEY2	110.0642416	138.5810311	33.33518194

PKIB	13.207709	0.829826533	2.222345463
TAAR5	1.100642416	0.829826533	0
NMBR	1.100642416	12.447398	12.22290005
SMPD2	72.64239948	55.59837774	143.3412824
MICAL1	303.7773069	466.3625118	276.6820101
REPS1	1237.122076	1464.643831	1265.625741
STX11	29.71734524	14.10705107	15.55641824
TEC	242.1413316	322.8025215	261.1255919
PRADC1	67.13918739	41.49132667	14.44524551
SEMA4F	91.35332055	76.34404107	120.006655
CCT7	1041.207726	1755.083118	1101.172177
EGR4	0	13.27722453	2.222345463
RAB11FIP	166.1970049	102.0686636	306.6836739
SMYD5	84.74946605	127.7932861	200.0110917
DYSF	171.7002169	263.8848376	98.8943731
CCDC142	133.1777324	65.55629614	212.2339917
EMX1	2.201284833	12.447398	0
KCNMB4	7.704496914	14.10705107	75.55974574
USP15	1138.064258	664.6910532	458.9143381
GNS	1586.025722	2027.266221	2500.138646
CPM	499.691657	1027.325248	710.0393754
MDM2	1251.430427	1620.65122	503.3612473
KLHL36	416.0428334	365.1236747	566.698093
BCO1	0	0	1.111172731
MPHOSPH	119.9700234	194.1794088	104.4502368
CHST5	3.301927249	0	0
KIAA0513	154.0899383	46.47028587	177.787637
DYNC1LI2	1326.274112	1453.02626	961.1644127
FBXL8	45.12633907	31.53340827	115.5619641
FHOD1	209.1220591	237.3303885	596.6997568
CCDC102A	75.94432672	29.04392867	92.22733671
SLC9A5	18.71092108	19.9158368	62.22567296
AGT	99.05781747	174.263572	196.6775735
ZNF670-ZI	5.503212081	17.4263572	0
PCNX2	1953.640289	1618.16174	2107.894672
KCNK1	158.4925079	85.47213294	424.4679834
URB2	344.5010763	1120.26582	524.4735292
EGLN1	200.3169198	266.3743172	410.0227379
CAPN9	24.21413316	20.74566333	16.66759097
COG2	897.0235693	682.1174104	503.3612473
ABCB10	326.8907976	322.8025215	286.6825647
NTPCR	230.034265	604.1137163	393.3551469
TAF5L	357.7087853	594.1557979	300.0166375
GLUL	1635.554631	2449.647926	5586.976494

STX6	299.3747372	377.5710727	274.4596647
RGS8	2.201284833	13.27722453	7.77820912
RNASEL	372.0171367	153.5179087	638.9243206
DHX9	3261.203479	7090.037901	3539.08515
KIAA1614	60.5353329	88.79143907	73.33740027
CEP350	3209.473286	4034.616605	2361.242054
NPL	177.203429	135.2617249	118.8954823
NIBAN1	3551.773077	2890.285816	1421.189924
PIGC	141.9828717	399.9763891	215.5675099
LAMC1	2343.267704	2633.03959	3262.40314
RC3H1	2437.922952	1496.17724	2001.222089
GPR55	8.80513933	4.149132667	5.555863657
SP110	706.6124313	260.5655315	787.8214666
MRPL44	270.7580344	407.4448279	125.5625187
CHRND	0	6.638612267	3.333518194
PAX3	6.603854498	3.319306133	44.44690926
DOCK10	1044.509653	273.842756	1631.20157
TTLL4	522.8051477	558.473257	670.0371571
USP37	693.4047223	2141.782283	631.1461115
HTR2B	48.42826632	24.894796	1.111172731
ITM2C	1412.12422	1877.067618	4612.478008
SLC19A3	13.207709	4.149132667	1.111172731
SERPINE2	282.865101	117.0055412	64.44801842
DNAJB2	395.1306275	389.1886441	708.9282027
WNT10A	23.11349074	9.128091867	16.66759097
TMBIM1	570.1327716	114.5160616	484.4713109
CYP27A1	143.0835141	12.447398	273.3484919
EIF4E2	559.1263475	780.0369414	404.4668742
ARMC9	520.6038629	478.8099098	594.4774113
CAB39	1786.342642	658.8822675	386.6881105
REV1	1658.668121	2502.756825	1465.636833
TSGA10	323.5888704	381.7202053	262.2367646
MFSD9	84.74946605	298.737552	230.0127554
TMEM127	299.3747372	374.2517665	393.3551469
EDAR	1.100642416	0	18.88993643
TGFBRAP	279.5631737	302.0568581	330.0183012
GCC2	1821.563199	1367.554127	972.27614
MRPS9	245.4432588	312.8446031	127.7848641
GPR45	3.301927249	0	0
C2orf49	346.7023611	199.158368	40.00221833
ANKRD36	2.201284833	0.829826533	5.555863657
EPC2	1123.755907	1077.944667	382.2434196
ARHGEF4	82.54818122	82.98265334	143.3412824
ISCU	507.3961539	571.7504815	620.0343841

ALDH1L2	234.4368347	128.6231127	316.6842285
STAB2	17.61027866	29.04392867	94.44968217
USP44	79.24625397	58.91768387	141.1189369
SCYL2	1621.246279	2392.389896	1817.878589
CKAP4	957.5589022	586.6873591	1366.74246
PLXNC1	680.1970133	933.55485	642.2578388
APPL2	1420.929359	704.5227268	2425.690073
PWP1	516.2012932	794.1439924	594.4774113
DRAM1	184.9079259	58.91768387	115.5619641
WASHC4	2153.957209	1119.435994	1301.183269
SLC41A2	457.8672452	312.8446031	170.0094279
VILL	83.64882364	6.638612267	12.22290005
FLNB	14955.52915	3686.089461	20516.69331
NEK3	239.9400468	183.3916639	111.1172731
PCDH8	29.71734524	129.4529392	91.11616398
VPS36	499.691657	507.8538384	361.1311377
RNASEH2	246.5439013	414.9132667	125.5625187
CKAP2	413.8415485	1890.344843	83.33795486
CNMD	3.301927249	0.829826533	0
TBC1D4	1118.252695	183.3916639	1447.858069
THSD1	93.55460539	78.83352067	118.8954823
BORA	77.04496914	169.2846128	25.55697282
LRCH1	635.0706742	291.2691132	186.6770189
SUCLA2	365.4132822	366.7833277	315.5730557
RCBTB1	265.2548223	462.2133791	927.8292308
MED4	340.0985066	487.1081751	204.4557826
PHF11	334.5952946	121.1546739	107.7837549
RPL13AP2	6.603854498	5.808785734	3.333518194
COG3	1167.781604	416.5729197	625.5902478
LMO7	1339.481821	570.920655	194.455228
SCEL	23.11349074	11.61757147	6.667036389
ITM2B	4679.931554	807.421217	5476.970393
SPRY2	137.580302	82.98265334	112.2284459
NUDT15	33.01927249	125.3038065	43.33573653
EDNRB	223.4304105	371.7622869	513.3618019
RCBTB2	227.8329802	127.7932861	195.5664007
LCP1	2137.447572	588.3470122	477.8042745
SETDB2	431.4518272	281.3111948	224.4568918
SCRN1	1011.490381	312.0147765	544.4746384
C7orf25	0	0.829826533	0
TNS3	2129.743076	994.9620135	695.5941299
SPDYE1	4.402569665	0	20.00110917
CHST12	325.7901552	128.6231127	321.1289194
IGF2BP3	13.207709	19.9158368	17.7787637

GPNMB	3317.336243	746.0140535	173.3429461
RAPGEF5	152.9892959	719.4596044	93.33850944
RAC1	893.721642	697.8841146	437.8020562
KDELR2	1947.036434	931.895197	638.9243206
NUP42	372.0171367	331.9306133	252.23621
IL6	7.704496914	4.9789592	5.555863657
ZDHHC4	291.6702403	438.9782362	398.9110106
AOAH	244.3426164	39.00184707	94.44968217
BZW2	182.7066411	333.5902664	155.5641824
DGKB	24.21413316	1067.156922	54.44746384
TBRG4	227.8329802	226.5426436	298.9054648
DDX56	341.1991491	153.5179087	437.8020562
HUS1	169.4989321	110.3669289	106.6725822
NACAD	68.23982981	102.8984901	27.77931829
PKD1L1-A	1.100642416	0	3.333518194
DBNL	567.9314868	401.6360421	443.3579198
CCM2	374.2184215	472.1712975	316.6842285
MYO1G	175.0021442	58.91768387	70.00388208
TTYH3	954.2569749	453.9151138	660.0366025
MMD2	1.100642416	4.149132667	6.667036389
CIDEB	5.503212081	0.829826533	2.222345463
RNASE2C	2.201284833	0	2.222345463
TTC5	3.301927249	9.9579184	14.44524551
NKX2-8	2.201284833	13.27722453	43.33573653
NKX2-1	3.301927249	1516.922903	16.66759097
ZFHX2	413.8415485	572.580308	902.2722579
MTHFS	13.207709	0.829826533	3.333518194
ADAMTS7	66.03854498	68.87560227	158.8977006
ABHD17C	88.0513933	96.25987787	71.11505481
IREB2	1127.057834	1048.900738	1016.723049
ALPK3	117.7687385	34.8527144	75.55974574
TM6SF1	94.6552478	151.8582556	86.67147305
CIB2	15.40899383	89.6212656	16.66759097
CALCOCC	900.3254965	740.2052678	1231.179386
RSAD1	107.8629568	106.2177963	331.129474
NMT1	998.2826716	1134.372871	802.2667121
MYCBPAI	27.51606041	24.894796	50.00277291
SRSF1	95.75589022	251.4374396	25.55697282
VEZF1	3337.147806	3916.781237	1277.848641
CHAD	4.402569665	17.4263572	0
TACO1	16.50963624	19.08601027	17.7787637
TEX2	1839.173478	1660.482893	1633.423915
DCAF7	162.8950776	399.9763891	35.55752741
GH2	2.201284833	0	14.44524551

CSH1	0	0.829826533	0
LIMD2	28.61670282	24.06496947	16.66759097
BRIP1	160.6937928	1825.618373	22.22345463
KAT7	1305.361906	1671.270638	818.9343031
ACTL6A	347.8030036	1141.84131	441.1355744
NDUFB5	48.42826632	29.8737552	67.78153662
MRPL47	221.2291257	463.0432056	197.7887462
TRA2B	1744.51823	3670.322757	1313.406169
SCN2A	128.7751627	2420.603998	248.9026918
TBR1	5.503212081	9.128091867	1.111172731
MARCHF7	2008.67241	2633.869417	1613.422806
ERMN	8.80513933	0.829826533	3.333518194
GALNT5	91.35332055	18.25618373	13.33407278
SCN7A	886.0171451	48.95976547	160.0088733
TANK	891.5203572	1187.481769	940.0521308
BLK	0	0.829826533	0
SKIL	1150.171325	1118.606167	1046.724713
EPRS1	4843.927274	5003.02417	3013.500448
HLX	17.61027866	13.27722453	16.66759097
VPS45	551.4218506	897.8723091	697.8164753
IL10	12.10706658	8.298265334	3.333518194
KCTD3	2205.687402	1874.578139	1744.541188
RPS6KC1	1888.702386	1500.326372	1126.72915
ZNG1B	641.6745287	530.2591548	337.7965104
IL36G	1.100642416	4.9789592	0
IL1RN	6.603854498	13.27722453	30.00166375
IL36A	4.402569665	0	0
IL36RN	4.402569665	0.829826533	18.88993643
IL36B	5.503212081	0.829826533	1.111172731
IL1F10	1.100642416	0	20.00110917
CFC1	1.100642416	0.829826533	5.555863657
SMPD4	2.201284833	0.829826533	0
WDR33	1014.792308	1029.814728	924.4957126
CCDC115	99.05781747	88.79143907	125.5625187
SAP130	1349.387602	1623.970526	1004.500149
BIN1	266.3554647	107.8774493	172.2317734
IMP4	179.4047139	165.1354801	114.4507913
HS6ST1	287.2676707	453.9151138	322.2400921
UGGT1	1655.366194	2053.82067	1444.524551
GYPC	178.3040714	64.7264696	164.4535643
STAM	508.4967963	873.8073396	460.0255108
GAD2	8.80513933	2.4894796	25.55697282
ABI1	1931.627441	1813.170975	1215.622968
YME1L1	3178.655298	4535.002005	2459.025255

DNAJC1	628.4668197	736.8859616	426.6903289
NIPSNAP3	227.8329802	1378.341872	888.9381852
LRRC8A	766.0471217	693.7349819	581.1433385
CDK9	592.14562	864.6792478	2483.471055
TXN	369.8158519	1145.990443	426.6903289
ODF2	1284.4497	807.421217	692.2606117
ECPAS	7448.047231	5778.911978	8578.253487
TOR1B	286.1670282	429.8501443	376.687556
C9orf78	518.4025781	863.8494212	483.3601382
SMC2	387.4261305	5391.382987	346.6858922
KLF4	208.0214167	90.45109214	577.8098203
TOR1A	484.2826632	992.4725339	634.4796297
RALGPS1	561.3276323	984.1742686	984.4990401
NIBAN2	1615.743067	1805.702537	5101.39401
OR1J1	6.603854498	2.4894796	4.444690926
OR13C9	3.301927249	4.9789592	23.33462736
ST6GALN	111.164884	230.6917763	275.5708374
TMOD1	150.788011	34.8527144	257.7920737
DAB2IP	1143.567471	807.421217	1195.621859
STXBP1	549.2205657	1505.305332	771.1538756
SLC2A8	81.44753881	133.6020719	333.3518194
ANGPTL2	376.4197064	103.7283167	16.66759097
CDK5RAP	2681.164926	4534.172178	2013.444989
ZFP37	108.9635992	121.1546739	135.5630732
SLC31A2	23.11349074	40.66150013	46.66925472
SLC31A1	189.3104956	243.1391743	197.7887462
TLR4	381.9229185	259.7357049	466.6925472
ZNF189	975.1691808	523.6205426	452.2473017
ALDOB	5.503212081	1.659653067	15.55641824
STX17	438.0556817	426.5308382	244.4580009
PRPF4	452.3640331	1056.369177	495.5830382
FPGS	294.9721676	258.9058784	850.0471396
USP20	407.237694	129.4529392	736.7075209
BAAT	7.704496914	2.4894796	0
KIF12	134.2783748	26.55444907	88.89381852
ATP6V1G1	648.2783832	721.949084	362.2423104
TEX10	707.7130737	1179.183504	590.0327204
GARNL3	766.0471217	409.1044809	1893.438334
MRPL50	400.6338395	570.0908284	507.8059383
DPM2	68.23982981	176.7530516	172.2317734
WDR38	2.201284833	3.319306133	2.222345463
TSTD2	336.7965794	498.7257466	396.6886651
GABBR2	12.10706658	455.5747668	40.00221833
HEMGN	3.301927249	67.2159492	37.77987287

PSMB7	523.9057902	1168.395759	1121.173286
NR5A1	7.704496914	3.319306133	0
TRMO	431.4518272	316.9937357	388.910456
RABEPK	232.2355498	271.3532764	313.3507103
GOLGA1	565.730202	541.8767263	685.5935753
XPA	366.5139246	258.9058784	153.3418369
NCBP1	1037.905799	1752.593638	971.1649673
ANP32B	1054.415435	1909.430853	510.0282837
OR1L4	1.100642416	2.4894796	26.66814555
PDCL	249.8458285	558.473257	394.4663197
RPL35	873.9100785	1186.651943	1181.176614
CTSV	23.11349074	638.1366042	30.00166375
LMX1B	9.905781747	20.74566333	131.1183823
ARPC5L	114.4668113	450.5958076	95.5608549
ENPP2	1035.704514	355.1657563	95.5608549
DSCC1	88.0513933	843.9335844	36.66870014
DERL1	416.0428334	889.5740438	578.9209931
MYC	463.3704573	218.2443783	571.142784
CCN3	1602.535358	55.59837774	1848.991425
IL33	66.03854498	4.9789592	3.333518194
DMAC1	301.5760221	443.9571954	250.0138646
RANBP6	614.1584683	950.1513807	583.365684
POLR1E	260.8522527	401.6360421	263.3479374
PLAA	1075.327641	1726.869016	1198.955377
IL11RA	18.71092108	7.4684388	15.55641824
UBAP2	2335.563207	2577.441213	1300.072096
APTX	321.3875856	492.0871343	511.1394565
RNF38	1336.179893	1469.622791	904.4946034
TLN1	6976.972277	4750.756904	8416.022268
CCL21	62.73661773	0.829826533	6.667036389
SIT1	9.905781747	10.78774493	21.1122819
IFNA21	3.301927249	1.659653067	31.11283648
DMRT1	4.402569665	9.9579184	5.555863657
DNAJB5	300.4753796	172.6039189	64.44801842
SPAG8	70.44111464	43.98080627	82.22678213
DCTN3	200.3169198	287.9498071	272.2373192
CD72	40.7237694	20.74566333	26.66814555
TMEM8B	248.7451861	207.4566333	714.4840663
GRHPR	614.1584683	725.2683902	800.0443666
ALDH1B1	224.5310529	248.1181335	167.7870824
HINT2	8.80513933	15.76670413	3.333518194
ARHGEF3	13.207709	175.9232251	51.11394565
IGFBPL1	6.603854498	429.0203178	7.77820912
DENND4C	3088.40262	2496.948039	2399.021927

RPS6	6775.554715	6672.635155	7398.188046
CNPY3	278.4625313	737.7157882	388.910456
FOXP4	935.5460539	1063.007789	1571.198242
PPIL1	152.9892959	443.1273688	227.7904099
KLC4	305.9785917	186.71097	511.1394565
KIF13A	2972.835166	813.2300027	3321.295294
ZSCAN9	201.4175622	328.6113072	225.5680645
PIM1	91.35332055	382.5500319	190.0105371
GMPR	506.2955115	77.1738676	314.461883
CMTR1	760.5439097	723.6087371	1135.618532
TFAP2A	723.1220675	260.5655315	436.6908835
SLC22A7	7.704496914	0.829826533	31.11283648
YIPF3	756.14134	552.6644712	1257.847532
TMEM14E	215.7259136	377.5710727	197.7887462
TMEM63E	486.483948	361.8043685	1327.851414
FRS3	147.4860838	189.2004496	233.3462736
TJAP1	278.4625313	248.1181335	400.0221833
CAPN11	5.503212081	6.638612267	30.00166375
TINAG	12.10706658	4.149132667	10.00055458
HCRTR2	1.100642416	1.659653067	10.00055458
KIAA0319	19.81156349	109.5371024	177.787637
IRF4	90.25267814	13.27722453	18.88993643
SLC22A23	466.6723845	338.5692256	1037.835331
TUBB2A	290.5695979	270.5234499	415.5786016
LRRC1	270.7580344	679.6279308	183.3435007
GCM1	5.503212081	4.149132667	16.66759097
FOXF2	239.9400468	31.53340827	65.55919115
BPHL	266.3554647	266.3743172	328.9071285
RIPK1	709.9143585	819.0387884	423.3568107
TUBB2B	31.91863007	1300.338178	170.0094279
UQCC2	148.5867262	317.8235623	224.4568918
HMGA1	143.0835141	514.4924507	114.4507913
TCF19	13.207709	146.8792964	3.333518194
FLOT1	0	0	1.111172731
MDC1	556.9250626	1370.873433	173.3429461
PGBD1	247.6445437	693.7349819	247.7915191
TPMT	457.8672452	721.1192575	323.3512648
CLPS	0	0	4.444690926
RNF144B	389.6274154	50.61941854	556.6975385
MTCH1	1094.038562	1921.048425	2334.573909
TAF8	342.2997915	469.6818179	423.3568107
FAM8A1	213.5246288	198.3285415	338.9076831
C6orf52	1.100642416	11.61757147	1.111172731
FGFBP1	2.201284833	3.319306133	13.33407278

FGFBP2	2.201284833	1.659653067	0
CPEB2	165.0963624	48.12993894	337.7965104
FHDC1	239.9400468	1650.524975	411.1339106
TLR2	250.9464709	199.9881945	285.571392
MGARP	5.503212081	2.4894796	0
TTC29	6.603854498	11.61757147	21.1122819
MYO7A	149.6873686	195.0092353	605.5891386
FCHSD2	815.5760305	1309.46627	784.4879484
ARRB1	466.6723845	325.2920011	1798.988652
SLCO2B1	640.5738863	190.8601027	1012.278358
THAP12	1391.212014	1745.955026	556.6975385
ANKRD42	445.7601786	180.0723577	268.903801
IL18BP	278.4625313	148.5389495	240.01331
NUMA1	8942.719632	5554.028988	16073.11356
CCDC90B	288.3683131	449.7659811	245.5691736
SYTL2	2238.706675	813.2300027	9187.176144
RAB30	146.3854414	346.8674909	178.8988098
CREBZF	872.8094361	1002.430452	1151.17495
LRRC32	252.0471133	125.3038065	87.78264578
PRCP	949.8544053	1014.048024	1456.747451
NARS2	209.1220591	512.0029711	372.242865
RNF121	367.614567	539.3872467	525.584702
MRPL15	277.3618889	780.0369414	245.5691736
PI15	807.8715336	69.7054288	110.0061004
TTPA	5.503212081	1.659653067	7.77820912
GGH	30.81798766	1016.537503	37.77987287
SLCO5A1	376.4197064	58.91768387	514.4729747
SULF1	4033.854456	1476.261403	413.3562561
TGS1	585.5417655	862.1897682	302.238983
SDCBP	646.0770984	1382.491005	825.6013395
NEK1	891.5203572	680.4577574	840.046585
DDX60	1247.027858	433.999277	1080.059895
NXPE4	5.503212081	1.659653067	77.7820912
SORL1	4521.439046	1545.966832	2556.808455
TMPRSS4	11.00642416	14.10705107	5.555863657
BUD13	468.8736693	619.0505939	314.461883
TRPC6	58.33404806	175.0933985	31.11283648
MMP7	1067.623144	57.2580308	80.00443666
MMP20	3.301927249	4.149132667	8.889381852
MMP27	8.80513933	8.298265334	17.7787637
CFAP300	22.01284833	110.3669289	80.00443666
DCUN1D5	244.3426164	499.5555731	172.2317734
YAP1	1495.773044	131.1125923	1458.969796
TRIM29	561.3276323	46.47028587	24.44580009

BTG4	3.301927249	8.298265334	0
POU2F3	23.11349074	14.10705107	7.77820912
RDX	1014.792308	1677.079424	560.0310566
PPP2R1B	472.1755966	614.9014612	472.2484109
FDX1	60.5353329	104.5581432	85.56030032
CFAP68	147.4860838	338.5692256	65.55919115
FXYD6	25.31477557	29.8737552	3.333518194
ARHGAP2	166.1970049	93.77039827	114.4507913
FXYD2	3.301927249	2.4894796	1.111172731
MMP13	19.81156349	269.6936233	7.77820912
TMPRSS1	35.22055732	112.8564085	64.44801842
CASP1	265.2548223	78.83352067	23.33462736
CASP5	7.704496914	10.78774493	23.33462736
ALKBH8	179.4047139	130.2827657	153.3418369
MAP2K5	488.6852328	204.9671537	203.3446099
UNC13C	27.51606041	779.2071148	48.89160018
SQOR	108.9635992	34.8527144	103.339064
CTDSPL2	505.1948691	1143.500963	266.6814555
SLTM	3306.329819	2321.85464	1424.523442
THBS1	3343.751661	1592.437118	3461.303058
MAPKBP1	283.9657434	206.6268068	360.019965
NUSAP1	0	9.128091867	0
NDUFAF1	137.580302	130.2827657	117.7843095
KIF23	86.95075089	943.5127684	117.7843095
ITGA11	782.556758	149.368776	441.1355744
KNL1	203.618847	2243.850946	61.11450023
HAUS2	61.63597531	173.4337455	58.89215477
RTF1	491.9871601	567.6013488	298.9054648
PARP6	671.3918739	385.0395115	761.153321
RPLP1	668.0899467	667.1805328	347.7970649
PAQR5	33.01927249	20.74566333	468.9148927
LRRC49	190.411138	263.0550111	76.67091847
TUBGCP4	250.9464709	365.1236747	244.4580009
RMDN3	176.1027866	92.1107452	244.4580009
ITPKA	6.603854498	13.27722453	28.89049102
UACA	2570.000042	1136.032524	1803.433343
SMAD6	140.8822293	17.4263572	76.67091847
PLCB2	335.695937	74.684388	217.7898554
TMEM62	234.4368347	277.9918887	256.680901
PAK6	88.0513933	14.9368776	32.22400921
ADAM10	5536.231354	2228.084242	3079.059639
DUOX1	90.25267814	67.2159492	24.44580009
SLC28A2	5.503212081	4.149132667	22.22345463
STRA6	48.42826632	1.659653067	14.44524551

CYP19A1	6.603854498	6.638612267	3.333518194
ZNF280D	401.7344819	134.4318984	232.2351009
SEMA6D	148.5867262	408.2746544	140.0077642
BCL2L10	5.503212081	0	0
RSL24D1	278.4625313	235.6707355	71.11505481
SPTBN5	79.24625397	285.4603275	236.6797918
GCOM1	24.21413316	4.9789592	5.555863657
GCHFR	17.61027866	46.47028587	5.555863657
BCAR3	194.8137077	234.0110824	75.55974574
TTLL7	689.0021526	1439.749035	516.6953201
FNBP1L	2218.895111	2860.412061	1293.405059
KYAT3	347.8030036	424.0413586	456.6919926
GTF2B	322.488228	542.7065528	321.1289194
BRDT	6.603854498	65.55629614	26.66814555
RABGGTE	586.6424079	770.079023	286.6825647
IFI44L	232.2355498	55.59837774	86.67147305
GIPC2	19.81156349	4.9789592	11.11172731
ARHGAP2	2248.612456	1039.772646	2937.940702
IFI44	253.1477557	63.06681654	222.2345463
SLC44A5	39.62312699	433.999277	56.6698093
RPL7P9	127.6745203	159.3266944	192.2328825
CLCA2	23.11349074	14.9368776	1625.645706
DNASE2B	11.00642416	21.57548987	21.1122819
DBT	563.5289171	680.4577574	620.0343841
RTCA	379.7216336	441.4677158	341.1300286
IFT172	1175.486101	534.4082875	1474.526215
SELENOI	257.5503254	1463.814005	421.1344652
CGREF1	223.4304105	26.55444907	98.8943731
HADHB	1096.239847	1667.951332	2095.671771
KHK	37.42184215	116.1757147	55.55863657
ADCY3	591.0449776	701.2034207	476.6931018
PPM1B	138.6809445	175.0933985	133.3407278
PNPT1	673.5931588	1191.630902	530.0293929
DYNC2LI1	337.8972218	260.5655315	496.694211
LHCGR	6.603854498	4.9789592	30.00166375
THUMPD2	311.4818038	224.053164	376.687556
CYP1B1	1559.610304	574.2399611	1154.508468
SULT6B1	3.301927249	0	10.00055458
RAB1A	1533.194886	1135.202698	836.7130668
ACTR2	1201.901519	1915.239639	1294.516232
PREB	212.4239863	194.1794088	311.1283648
SLC5A6	134.2783748	187.5407965	370.0205196
ABCG5	4.402569665	0.829826533	18.88993643
PREPL	2391.695971	2553.376243	3186.843394

SLC3A1	9.905781747	3.319306133	158.8977006
EMILIN1	851.8972302	90.45109214	107.7837549
FBXO11	4096.591073	5300.931895	2156.786272
SIX3	8.80513933	351.8464501	6.667036389
ATRAID	500.7922994	812.4001762	1256.736359
CENPO	126.5738779	565.9416958	225.5680645
LRPPRC	3106.012899	6451.901297	3192.399257
TRIM54	4.402569665	2.4894796	33.33518194
DTNB	774.8522611	702.8630738	1020.056567
ACTR1A	333.4946521	834.8054926	647.8137024
CYP2C9	2.201284833	2.4894796	28.89049102
MFSD13A	18.71092108	74.684388	62.22567296
CYP2C8	16.50963624	4.149132667	37.77987287
MYOF	4222.064309	2374.963538	2004.555608
LOXL4	85.85010847	18.25618373	33.33518194
STAMBPL	89.15203572	5.808785734	55.55863657
CH25H	140.8822293	8.298265334	38.8910456
LBX1	1.100642416	41.49132667	0
ATAD1	177.203429	29.04392867	57.78098203
BTBD16	14.30835141	11.61757147	17.7787637
KIF11	116.6680961	1227.313443	15.55641824
TACC2	3154.441165	4122.578218	1966.775735
DUSP5	56.13276323	78.83352067	77.7820912
CALHM2	73.74304189	63.06681654	168.8982552
ARL3	244.3426164	646.4348695	223.345719
CEP55	9.905781747	284.6305009	3.333518194
KIF20B	213.5246288	671.3296655	72.22622754
ENTPD1	416.0428334	195.0092353	68.89270935
EXOC6	713.2162858	521.9608895	374.4652105
PLCE1	1355.991457	664.6910532	855.6030032
RBP4	8.80513933	267.2041437	71.11505481
DBR1	216.826556	533.578461	288.9049102
DNAJC13	2484.149934	2040.543446	2566.80901
GPR87	30.81798766	3.319306133	17.7787637
ANXA7	1567.314801	2156.71916	3616.867241
FAM149B1	449.0621058	279.6515417	350.0194104
ASCC1	411.6402637	715.3104718	385.5769378
PLA2G12E	0	20.74566333	0
ZNF365	5.503212081	0.829826533	2.222345463
OIT3	14.30835141	0.829826533	25.55697282
ADAMTS1	27.51606041	292.9287663	46.66925472
RPS24	5190.629635	4379.824443	3152.397039
TET1	1062.119932	5002.194343	650.0360479
DNA2	361.0107125	1310.296096	604.4779659

MYPN	15.40899383	9.128091867	22.22345463
AOX1	281.7644586	21.57548987	685.5935753
ATIC	947.6531204	1501.986025	1171.176059
SMARCAI	336.7965794	497.0660935	713.3728936
BARD1	611.9571835	2778.259234	561.1422294
STAT4	181.6059987	35.68254093	35.55752741
MSTN	52.83083598	48.12993894	210.0116462
CARF	386.3254881	316.9937357	358.9087923
ASNSD1	363.2119974	683.7770635	267.7926283
METTL5	397.3319123	1211.546739	411.1339106
SSB	773.7516187	1350.957596	417.800947
NAB1	280.6638162	1102.839463	1310.07265
CDK15	16.50963624	8.298265334	6.667036389
PPIG	1047.81158	1291.210086	658.9254297
FASTKD1	326.8907976	804.1019108	406.6892197
MDH1B	183.8072835	199.158368	181.1211552
HECW2	71.54175706	2600.676356	247.7915191
IDH1	1898.608168	1262.995984	1833.435007
OLA1	806.7708911	1979.966109	551.1416748
CIR1	693.4047223	633.157645	396.6886651
ITPRID2	1925.023586	1857.151782	2717.928501
CHRNA1	6.603854498	15.76670413	6.667036389
FAM117B	490.8865177	615.7312878	1088.949277
WDR12	460.06853	878.7862988	593.3662386
ABI2	1473.760195	1948.4327	1194.510686
ITGAV	1878.796605	1665.461852	1455.636278
SLC40A1	1368.098523	494.5766139	1028.945949
SLC35A5	399.5331971	530.2591548	586.6992022
SLC49A4	654.8822377	420.7220524	2061.225417
SENP7	1318.569615	1250.548586	1048.947058
GUCA1C	0	6.638612267	0
CCDC54	5.503212081	3.319306133	6.667036389
COX17	160.6937928	626.5190327	100.0055458
PARP9	1736.813733	1016.537503	1966.775735
MNS1	119.9700234	336.079746	31.11283648
USP8	1747.820157	1105.328942	906.7169489
SECISBP2	3286.518255	1635.588097	1948.996971
TMOD3	606.4539714	1020.686636	502.2500746
SPPL2A	512.899366	731.9070024	551.1416748
GLCE	375.319064	600.7944102	380.0210742
SHF	97.95717505	36.51236747	46.66925472
APH1B	152.9892959	117.0055412	135.5630732
INTS14	580.0385534	534.4082875	337.7965104
CILP	44.02569665	12.447398	73.33740027

PARP16	73.74304189	54.7685512	40.00221833
PPCDC	42.92505424	46.47028587	51.11394565
HCN4	24.21413316	229.8619497	7.77820912
ARHGAP2	192.6124229	277.1620621	173.3429461
FAM13A	1247.027858	1470.452617	622.2567296
HERC3	13.207709	2.4894796	1.111172731
HERC6	619.6616804	126.9634596	654.4807388
HERC5	233.3361923	469.6818179	525.584702
PCDH10	966.3640415	409.9343075	91.11616398
NDST4	37.42184215	88.79143907	20.00110917
ZGRF1	423.7473303	741.0350943	383.3545923
AP1AR	270.7580344	254.7567457	117.7843095
COPS4	511.7987236	355.9955828	403.3557015
HNRNPD	2469.841582	3833.798584	2123.45109
PRKG2	159.5931504	70.53525534	205.5669553
RASGEF1I	157.3918655	207.4566333	128.8960368
SEC31A	5892.839497	2389.07059	5356.963738
FGF5	7.704496914	0.829826533	0
GPAT3	110.0642416	14.10705107	115.5619641
IL21	2.201284833	0.829826533	0
FGF2	191.5117804	20.74566333	47.78042745
BBS7	379.7216336	686.2665431	278.9043556
BLTP1	11020.73251	11723.78926	11712.87176
BMPR1B	745.1349158	147.7091229	814.4896121
RAP1GDS	387.4261305	394.9974299	1086.726931
LARP1B	490.8865177	612.4119816	292.2384284
MMRN1	107.8629568	134.4318984	38.8910456
PDE5A	2845.160646	412.4237871	244.4580009
PRDM5	454.5653179	493.7467874	281.1267011
TRPC3	16.50963624	152.6880821	45.55808199
NAAA	376.4197064	78.83352067	721.1511027
NUP54	692.3040799	629.8383388	1706.761315
CXCL9	172.8008594	4.9789592	8.889381852
BMP2K	1433.036426	972.5566971	1036.724158
G3BP2	2451.130661	1890.344843	2125.673435
SEPTIN11	1352.68953	1355.106729	928.9404035
FRAS1	3868.758093	12421.67338	7349.296446
SCARB2	3667.340531	2216.466671	4916.939337
CCNG2	2194.680978	692.0753288	4185.787679
CNOT6L	920.13706	1637.24775	658.9254297
USO1	3550.672435	1170.055412	1966.775735
CDKL2	35.22055732	4.149132667	16.66759097
SHROOM3	2255.216311	1101.17981	2497.9163
ANXA3	1493.571759	74.684388	434.468538

PPA2	619.6616804	570.0908284	2100.116462
CENPE	220.1284833	1410.705107	51.11394565
GSTCD	268.5567496	306.2059908	1005.611322
INTS12	498.5910146	416.5729197	1203.400068
ENPEP	154.0899383	430.6799708	151.1194915
CASP6	315.8843735	310.3551235	234.4574463
LEF1	334.5952946	1624.800352	576.6986476
HADH	335.695937	324.4621745	634.4796297
EGF	115.5674537	8.298265334	86.67147305
PAPSS1	3553.974362	838.1247987	1808.989207
SEC24B	2741.700259	1420.663025	2265.681199
C4orf17	9.905781747	3.319306133	3.333518194
PPP3CA	6730.428376	1336.020719	2593.477155
SLC39A8	294.9721676	180.0723577	143.3412824
MTTP	23.11349074	13.27722453	16.66759097
FBN2	206.9207743	69.7054288	265.5702828
MAPK8IP3	868.4068665	373.42194	2594.588328
RGS3	329.0920825	601.6242367	347.7970649
GUCD1	380.822276	178.4127047	187.7881916
TTLL8	5.503212081	0.829826533	10.00055458
RNF185	126.5738779	69.7054288	54.44746384
SHISAL1	31.91863007	103.7283167	5.555863657
PARVG	125.4732355	33.19306133	87.78264578
B4GALNT	162.8950776	73.85456147	503.3612473
PDE6H	0	0.829826533	0
ERP27	483.1820208	3.319306133	60.0033275
ETV6	905.8287086	1102.839463	540.0299475
GABARAI	221.2291257	166.7951332	404.4668742
KIF21A	1483.665977	1131.053565	3516.861695
CPNE8	175.0021442	37.342194	176.6764643
YARS2	177.203429	415.7430932	362.2423104
FGD4	533.8115719	1367.554127	235.5686191
ALG10	345.6017187	961.7689522	288.9049102
PIK3C2G	49.52890873	134.4318984	46.66925472
SINHCAF	6.603854498	84.6423064	32.22400921
PLCZ1	25.31477557	78.83352067	11.11172731
AEBP2	1100.642416	993.3023604	442.2467471
SLCO1C1	15.40899383	24.06496947	1.111172731
ETFBKMT	82.54818122	68.87560227	153.3418369
ETNK1	471.0749542	692.0753288	1010.056013
ZCRB1	816.6766729	599.9645836	285.571392
TMEM117	138.6809445	126.1336331	25.55697282
PRICKLE1	397.3319123	87.96161254	452.2473017
C1RL	22.01284833	5.808785734	3.333518194

NDUFA9	41.82441182	59.7475104	35.55752741
CLSTN3	25.31477557	5.808785734	61.11450023
KLRG1	35.22055732	48.95976547	17.7787637
VAMP1	132.07709	120.3248473	88.89381852
TAPBPL	323.5888704	59.7475104	126.6736914
CD27	48.42826632	0.829826533	18.88993643
RBP5	4.402569665	0	0
PEX5	37.42184215	27.3842756	24.44580009
PIANP	13.207709	28.21410213	6.667036389
SLC38A4	20.91220591	13.27722453	22.22345463
AMIGO2	175.0021442	496.236267	1838.990871
SCAF11	6068.942283	2866.220846	2563.475491
COL2A1	553.6231354	136.0915515	672.2595025
PPFIA2	149.6873686	127.7932861	863.3812123
ANP32D	6.603854498	0	0
LLPH	16.50963624	27.3842756	3.333518194
RPL14P1	126.5738779	53.10889814	92.22733671
LRIG3	922.3383449	318.6533888	301.1278102
MARCHF9	85.85010847	61.40716347	78.89326393
INHBE	0	9.9579184	7.77820912
GLIPR1	315.8843735	126.9634596	427.8015016
TPH2	12.10706658	4.9789592	4.444690926
PHLDA1	192.6124229	663.0314002	1267.848087
TMEM19	70.44111464	122.8143269	78.89326393
LGR5	13.207709	9.9579184	6.667036389
PTPRQ	89.15203572	11.61757147	43.33573653
DUSP6	283.9657434	422.3817055	372.242865
POC1B	286.1670282	384.2096849	204.4557826
TMTC3	1001.584599	1193.290555	1160.064332
LUM	5053.049333	609.0926755	253.3473828
KERA	18.71092108	3.319306133	24.44580009
SNRPF	454.5653179	1415.684066	274.4596647
AMDHD1	15.40899383	14.10705107	11.11172731
NEDD1	591.0449776	1614.012607	327.7959558
SYCP3	18.71092108	5.808785734	1.111172731
ASCL1	5.503212081	2472.883069	73.33740027
GAS2L3	249.8458285	1176.694024	54.44746384
TMEM132	30.81798766	5.808785734	33.33518194
SLC15A4	198.1156349	244.7988273	187.7881916
TDG	223.4304105	1027.325248	110.0061004
RITA1	115.5674537	127.7932861	288.9049102
SDSL	70.44111464	73.02473494	80.00443666
MMAB	171.7002169	275.5024091	187.7881916
GLTP	514.0000084	408.2746544	617.8120387

GIT2	1441.841565	660.5419206	1047.835886
TCHP	184.9079259	210.7759395	123.3401732
FAM222A	61.63597531	199.158368	160.0088733
FOXN4	11.00642416	28.21410213	6.667036389
NUP58	758.3426248	1560.903709	571.142784
MTMR6	366.5139246	529.4293283	240.01331
SLC46A3	79.24625397	25.72462253	38.8910456
SLC7A1	403.9357668	748.5035331	245.5691736
PDX1	1.100642416	0.829826533	0
LNX2	501.8929418	555.9837774	456.6919926
SUOX	773.7516187	169.2846128	463.359029
CCDC65	23.11349074	0.829826533	8.889381852
SLC39A5	1.100642416	3.319306133	4.444690926
TARBP2	83.64882364	39.00184707	135.5630732
RDH16	12.10706658	6.638612267	12.22290005
DHH	3.301927249	5.808785734	7.77820912
ACVRL1	128.7751627	63.06681654	25.55697282
GPR84	5.503212081	7.4684388	34.44635467
NPFF	7.704496914	0.829826533	28.89049102
NABP2	247.6445437	313.6744296	66.67036389
N4BP2L1	406.1370516	146.8792964	225.5680645
CELA1	3.301927249	1.659653067	0
SMARCC2	3334.946521	1604.884516	2585.698946
BRCA2	204.7194894	1982.455588	46.66925472
KANSL2	422.6466879	287.1199805	341.1300286
CERS5	276.2612465	356.8254093	493.3606928
MAP3K12	194.8137077	30.70358173	118.8954823
ITGB7	111.164884	18.25618373	30.00166375
GALNT6	42.92505424	46.47028587	47.78042745
CSAD	236.6381195	51.44924507	377.7987287
LMBR1L	193.7130653	110.3669289	286.6825647
ESYT1	676.895086	682.947237	877.8264578
TMBIM6	4645.811639	2322.684467	4229.123416
ANKRD52	658.1841649	508.683665	1220.067659
KRT71	2.201284833	1.659653067	6.667036389
ZNF740	274.0599617	190.0302761	148.897146
SMIM2	1.100642416	0	2.222345463
WDFY2	224.5310529	284.6305009	314.461883
LPAR6	321.3875856	110.3669289	185.5658462
ESD	729.725922	786.6755536	770.0427029
RB1	1568.415443	258.0760519	943.385649
SBNO1	3590.295562	4597.238995	2353.463845
MORN3	7.704496914	21.57548987	13.33407278
SETD1B	1876.59532	877.9564723	2374.576127

VPS33A	22.01284833	47.3001124	23.33462736
VPS37B	329.0920825	224.8829905	161.1200461
RHOF	42.92505424	20.74566333	3.333518194
DENR	385.2248457	889.5740438	188.8993643
DIAPH3	55.03212081	760.1211046	2.222345463
SLAIN1	220.1284833	156.8372148	150.0083187
RBM26	2554.591048	2123.526099	1691.204897
SRRM4	2.201284833	3.319306133	6.667036389
METTL21(	3.301927249	0	8.889381852
MBNL2	825.4818122	351.0166236	358.9087923
RNF113B	0	0.829826533	0
ZIC5	14.30835141	367.6131543	162.2312188
ABHD13	365.4132822	409.9343075	267.7926283
RAB20	61.63597531	110.3669289	65.55919115
GRTP1	106.7623144	79.6633472	294.4607738
CUL4A	947.6531204	780.0369414	530.0293929
TTC6	3143.434741	945.1724215	2536.807346
SSTR1	138.6809445	33.19306133	351.1305831
CDH24	61.63597531	310.3551235	181.1211552
REM2	5.503212081	5.808785734	0
CBLN3	8.80513933	9.9579184	35.55752741
NOVA1	159.5931504	209.9461129	192.2328825
FITM1	0	0.829826533	0
MDGA2	31.91863007	16.59653067	128.8960368
TMX1	292.7708827	876.2968192	383.3545923
FRMD6	451.2633907	300.3972051	305.5725011
PELI2	355.5075005	636.4769511	214.4563372
RTN1	276.2612465	130.2827657	572.2539567
ARMH4	183.8072835	85.47213294	360.019965
SYT16	12.10706658	11.61757147	247.7915191
SLC38A6	296.07281	263.0550111	251.1250373
NAA30	213.5246288	363.4640216	358.9087923
ADAM21	16.50963624	34.02288787	13.33407278
RDH12	3.301927249	0.829826533	0
DCAF5	2564.49683	1602.395036	2684.593319
RAB15	90.25267814	119.4950208	122.2290005
WDR89	270.7580344	498.7257466	226.6792372
ESR2	29.71734524	13.27722453	8.889381852
KCNH5	14.30835141	16.59653067	10.00055458
STON2	846.3940181	1227.313443	540.0299475
EFCAB11	144.1841565	310.3551235	148.897146
GPR65	88.0513933	12.447398	32.22400921
PTGR2	42.92505424	58.91768387	31.11283648
JDP2	179.4047139	131.1125923	86.67147305

AK7	79.24625397	171.7740924	111.1172731
FAM181A	0	0.829826533	0
SLC24A4	12.10706658	39.8316736	40.00221833
FBLN5	1241.524646	101.2388371	282.2378738
CLBA1	216.826556	111.1967555	341.1300286
WARS1	1165.580319	1074.625361	651.1472206
SLC25A47	0	0.829826533	2.222345463
WDR20	844.1927333	677.9682778	506.6947655
NIPA2	16.50963624	20.74566333	7.77820912
SLC12A6	565.730202	698.7139411	546.6969839
DUOXA1	38.52248457	9.128091867	14.44524551
MFAP1	934.4454114	722.7789106	428.9126743
TCF12	2514.967921	3363.28694	1277.848641
SORD	1292.154197	335.2499195	1070.05934
SERF2	1199.700234	1253.038065	3473.525958
ZSCAN29	266.3554647	370.1026339	247.7915191
DUOXA2	1.100642416	0	2.222345463
DUOX2	95.75589022	9.9579184	95.5608549
LYSMD2	56.13276323	54.7685512	55.55863657
SLC27A2	110.0642416	102.8984901	64.44801842
FGF7	430.3511848	44.8106328	4.444690926
HDC	42.92505424	0.829826533	0
GCNT3	5.503212081	5.808785734	45.55808199
BNIP2	1187.593167	1336.020719	386.6881105
GTF2A2	403.9357668	482.9590424	250.0138646
SRP14	573.4346989	578.3890938	265.5702828
BAHD1	253.1477557	180.9021843	442.2467471
DISP2	2.201284833	67.2159492	51.11394565
CDAN1	205.8201318	164.3056536	403.3557015
TLE3	2284.933656	1175.864198	1695.649588
ANP32A	1798.449708	1633.928444	664.4812934
COMMD4	28.61670282	82.98265334	53.33629111
UBE2Q2	675.7944436	462.2133791	427.8015016
PSTPIP1	74.84368431	20.74566333	35.55752741
ETFA	902.5267814	862.1897682	541.1411202
BCL2A1	29.71734524	39.00184707	0
HMG20A	209.1220591	200.8180211	126.6736914
SCAPER	1249.229142	664.6910532	590.0327204
TSPAN3	1076.428283	1456.345566	1084.504586
SKIC8	439.1563241	382.5500319	461.1366835
NCOA2	3520.95509	3213.088337	5118.061601
NEIL1	128.7751627	11.61757147	94.44968217
MAN2C1	538.2141416	196.6688884	902.2722579
DNAJA4	489.7858753	22.4053164	68.89270935

TLNRD1	234.4368347	213.2654191	91.11616398
TPM1	3104.912256	919.447799	1242.291114
IGF1R	1253.631712	376.7412461	1661.203234
ARRDC4	296.07281	152.6880821	267.7926283
PIF1	26.41541799	73.02473494	8.889381852
USP3	891.5203572	671.3296655	305.5725011
BBS4	497.4903722	200.8180211	386.6881105
PML	747.3362007	175.0933985	413.3562561
CYP1A1	6.603854498	1.659653067	17.7787637
ADAMTS1	121.0706658	72.1949084	216.6786826
LINS1	479.8800935	209.9461129	254.4585555
ULK3	157.3918655	87.96161254	318.9065739
GOLGA6L	1.100642416	0	1.111172731
PCSK6	330.1927249	44.8106328	391.1328015
CELF6	6.603854498	2.4894796	7.77820912
SCAMP2	1176.586743	556.8136039	1161.175504
CYP1A2	0	1.659653067	26.66814555
LMAN1L	11.00642416	0	0
HAPLN3	38.52248457	15.76670413	16.66759097
RHCG	5.503212081	4.9789592	0
POLG	398.4325547	370.9324604	366.6870014
RLBP1	0	0.829826533	0
FANCI	279.5631737	1948.4327	55.55863657
ABHD2	3374.569648	921.9372786	677.8153662
WDR93	16.50963624	13.27722453	33.33518194
TICRR	59.43469048	435.65893	40.00221833
NTRK3	315.8843735	153.5179087	1605.644597
DET1	23.11349074	16.59653067	1.111172731
MFGE8	948.7537628	633.9874715	538.9187747
ZNF710	266.3554647	175.0933985	175.5652916
UNC45A	377.5203488	179.2425312	628.923766
ST8SIA2	26.41541799	155.1775617	3.333518194
MCTP2	718.7194978	123.6441535	143.3412824
FURIN	701.1092192	638.1366042	1167.842541
IQGAP1	6315.486185	4642.879454	3086.837848
CRTC3	1336.179893	794.973819	565.5869203
EFL1	642.7751711	752.6526658	440.0244016
SH3GL3	0	0.829826533	3.333518194
SEC11A	834.2869516	1034.793687	507.8059383
SEPTIN12	1.100642416	5.808785734	8.889381852
GLYR1	1207.404731	1040.602473	1290.071541
PMM2	741.8329886	394.1676033	237.7909645
SLC5A2	3.301927249	7.4684388	26.66814555
ITGAX	310.3811614	97.91953094	67.78153662

TGFB1I1	235.5374771	90.45109214	134.4519005
RUSF1	770.4496914	314.5042561	998.9442856
ARMC5	91.35332055	119.4950208	315.5730557
PARN	11.00642416	92.1107452	104.4502368
FTO	759.4432672	726.9280432	716.7064118
UQCRC2	170.5995745	35.68254093	61.11450023
CDR2	9.905781747	8.298265334	3.333518194
IGSF6	1.100642416	0	0
ARHGAP1	0	0	3.333518194
MYLK3	4.402569665	28.21410213	12.22290005
ABCC12	3.301927249	7.4684388	33.33518194
NKD1	591.0449776	219.0742048	283.3490465
DHX38	674.6938012	507.8538384	653.3695661
TXNL4B	63.83726015	58.91768387	34.44635467
MARVELI	81.44753881	97.0897044	87.78264578
CHST4	3.301927249	2.4894796	11.11172731
ZFHX3	8391.297782	4941.617006	6510.361033
CLEC18B	8.80513933	3.319306133	14.44524551
CPNE2	274.0599617	506.1941854	210.0116462
NLRC5	476.5781663	78.00369414	337.7965104
KATNB1	100.1584599	200.8180211	368.9093468
KIFC3	176.1027866	234.8409089	162.2312188
ADAMTS1	11.00642416	331.1007868	33.33518194
NUDT7	20.91220591	14.9368776	21.1122819
CMTM3	89.15203572	68.87560227	75.55974574
CMTM2	1.100642416	3.319306133	17.7787637
CDH11	2475.344794	789.9948598	1190.065995
NOL3	124.372593	78.00369414	144.4524551
MAP1LC3	158.4925079	250.6076131	234.4574463
MBTPS1	2101.126373	1746.784853	2346.796809
CDH13	78.14561156	72.1949084	3.333518194
ZCCHC14	779.2548307	686.2665431	610.0338296
MEAK7	146.3854414	648.9243491	135.5630732
ADAD2	1.100642416	0.829826533	21.1122819
OSGIN1	50.62955115	5.808785734	68.89270935
IRF8	134.2783748	20.74566333	66.67036389
RHOT2	378.6209912	342.7183583	1065.614649
ZSCAN32	198.1156349	302.0568581	223.345719
RPS2	36.32119974	0.829826533	5.555863657
PDPK1	352.2055732	409.9343075	342.2412013
TIGD7	416.0428334	522.790716	278.9043556
DEF8	145.284799	104.5581432	227.7904099
TCF25	983.9743202	456.4045934	1638.979779
GALNS	181.6059987	410.764134	274.4596647

GAS8	141.9828717	90.45109214	122.2290005
MED9	67.13918739	116.1757147	34.44635467
NCOR1	9466.625423	8025.252404	8494.915532
CDRT15P1	5.503212081	0	6.667036389
COPS3	785.8586852	2058.799629	566.698093
GID4	137.580302	156.8372148	142.2301096
ZNF287	305.9785917	243.1391743	248.9026918
MYOCD	402.8351244	7.4684388	17.7787637
KSR1	266.3554647	228.2022967	253.3473828
UTP4	105.661672	200.8180211	66.67036389
RANBP10	355.5075005	175.9232251	341.1300286
CTRL	0	0	6.667036389
DPEP3	3.301927249	4.149132667	12.22290005
GFOD2	104.5610295	120.3248473	135.5630732
NOB1	376.4197064	156.8372148	243.3468282
PRPSAP2	319.1863007	682.947237	460.0255108
UNC45B	4.402569665	6.638612267	3.333518194
PCTP	408.3383364	317.8235623	207.7893008
OR4D1	1.100642416	4.149132667	43.33573653
TOM1L1	1319.670257	1103.669289	1046.724713
KIF2B	2.201284833	0.829826533	38.8910456
C17orf80	400.6338395	617.3909408	375.5763832
TOB1	3790.612482	2143.441936	1894.549507
VPS53	197.0149925	86.30195947	267.7926283
SPATA22	11.00642416	10.78774493	46.66925472
SGSM2	1206.304088	766.7597168	3113.505993
NPEPPS	1180.989313	1326.0628	1348.963696
SKAP1	127.6745203	14.10705107	0
LRRC46	4.402569665	20.74566333	22.22345463
SCRN2	113.3661689	126.9634596	400.0221833
SSH2	1337.280536	2548.397284	1004.500149
RHBDL3	16.50963624	22.4053164	74.44857301
SPACA3	0	2.4894796	6.667036389
ARSG	64.93790256	65.55629614	106.6725822
ABCA8	1353.790172	149.368776	1115.617422
G6PC3	355.5075005	243.1391743	640.0354933
CLTC	9653.734633	11806.77192	12934.05059
CHCT1	2.201284833	2.4894796	14.44524551
BCAS3	945.4518356	1138.522004	1342.29666
PTRH2	252.0471133	243.1391743	170.0094279
SS18	1479.263408	1067.986748	836.7130668
TAF4B	101.2591023	33.19306133	52.22511838
AFG3L2	737.4304189	1509.454464	1141.174395
PRELID3A	35.22055732	77.1738676	63.33684569

IMPA2	137.580302	468.0221648	151.1194915
GNAL	204.7194894	10.78774493	118.8954823
SLC39A6	3628.818047	1230.632749	3551.30805
RPRD1A	702.2098616	1154.288708	663.3701207
C18orf21	45.12633907	89.6212656	15.55641824
GALNT1	801.2676791	1067.986748	800.0443666
ASXL3	156.2912231	82.1528268	71.11505481
ADCYAP1	1.100642416	9.128091867	11.11172731
MEP1B	7.704496914	24.06496947	17.7787637
SLC25A52	8.80513933	1.659653067	0
GAREM1	598.7494745	651.4138287	625.5902478
ESCO1	1033.503229	816.5493088	411.1339106
OSBPL1A	1025.798732	710.3315126	637.8131478
GATA6	100.1584599	94.6002248	66.67036389
GREB1L	362.111355	276.3322356	78.89326393
RMC1	279.5631737	427.3606647	211.122819
PELP1	622.9636076	846.423064	1400.077642
NPC1	696.7066495	783.3562475	858.9365214
SLC14A1	346.7023611	8.298265334	14.44524551
ARRB2	310.3811614	419.8922259	240.01331
SLC13A5	3.301927249	14.10705107	21.1122819
ZMYND15	38.52248457	9.128091867	98.8943731
WRAP53	79.24625397	192.5197557	173.3429461
MINK1	1482.565335	1102.839463	2134.562817
SAT2	147.4860838	83.81247987	190.0105371
ASGR1	5.503212081	9.128091867	22.22345463
PIK3R5	149.6873686	54.7685512	135.5630732
TP53	1624.548206	3554.147042	2602.366537
CCDC40	42.92505424	73.85456147	31.11283648
ARHGDIA	1123.755907	1115.286861	2180.120899
TMC6	346.7023611	159.3266944	790.0438121
SLC16A3	61.63597531	129.4529392	97.78320037
CARD14	1.100642416	0	1.111172731
TTYH2	100.1584599	195.0092353	70.00388208
RAB40B	121.0706658	70.53525534	98.8943731
EIF4A3	99.05781747	20.74566333	43.33573653
CSNK1D	1636.655273	1523.561515	2674.592765
ANAPC11	48.42826632	156.8372148	277.7931829
TBCD	703.310504	1551.775617	2167.897999
FN3KRP	217.9271984	341.8885317	218.9010281
NARF	249.8458285	644.7752164	430.0238471
RPTOR	723.1220675	1160.097494	1404.522333
FOXK2	1028.000017	1733.507628	837.8242395
TRIM65	97.95717505	63.06681654	140.0077642

CBX8	64.93790256	158.4968679	128.8960368
SECTM1	68.23982981	42.3211532	182.232328
RNF157	283.9657434	273.0129295	92.22733671
CEP131	157.3918655	428.1904912	300.0166375
ZNF750	56.13276323	64.7264696	24.44580009
WDR45B	961.9614718	1065.497269	1071.170513
CBX4	548.1199233	840.6142783	777.820912
RNF165	39.62312699	47.3001124	8.889381852
DYM	1190.895094	752.6526658	527.8070474
MAPK4	83.64882364	126.9634596	162.2312188
ELAC1	51.73019357	69.7054288	30.00166375
MBD1	368.7152095	351.8464501	496.694211
SMAD4	1737.914375	1205.737953	1387.854742
TNFRSF11	42.92505424	67.2159492	180.0099825
ZCCHC2	1085.233422	586.6873591	578.9209931
FBXO15	25.31477557	39.8316736	43.33573653
CBLN2	1.100642416	595.815451	18.88993643
PMAIP1	5.503212081	7.4684388	0
P3H4	189.3104956	220.7338579	336.6853376
NT5C3B	239.9400468	326.1218276	147.7859733
RETREG3	642.7751711	527.7696752	815.6007849
ERBB2	2648.145654	364.2938481	6058.113732
GRB7	74.84368431	224.053164	213.3451644
MIEN1	59.43469048	130.2827657	111.1172731
PNMT	0	4.9789592	6.667036389
ARL5C	2.201284833	2.4894796	16.66759097
STAC2	33.01927249	18.25618373	40.00221833
IGFBP4	1047.81158	374.2517665	386.6881105
FKBP10	359.9100701	365.9535012	314.461883
TXNL4A	347.8030036	669.6700124	293.3496011
CACNA1A	45.12633907	4858.634353	167.7870824
SAMD1	0	0	1.111172731
BRD4	4942.985092	4553.258189	4660.258436
SLC39A3	49.52890873	161.816174	195.5664007
NFIC	3469.224896	1609.033648	2829.045774
TPGS1	27.51606041	39.8316736	81.11560939
PLPP2	305.9785917	693.7349819	991.1660764
ZIM3	17.61027866	2.4894796	7.77820912
PRDM15	378.6209912	492.0871343	391.1328015
PFKL	1559.610304	2233.063201	2287.904654
FEM1A	194.8137077	233.1812559	226.6792372
VAV1	118.869381	34.8527144	93.33850944
MVB12A	84.74946605	157.6670413	327.7959558
CIB3	11.00642416	4.149132667	7.77820912

ENSG0000	35.22055732	40.66150013	3.333518194
SH3GL1	451.2633907	323.632348	587.8103749
DUS3L	159.5931504	102.8984901	318.9065739
DPP9	1030.201302	643.1155634	1287.849196
DMRTC2	2.201284833	2.4894796	6.667036389
CCDC97	245.4432588	286.290154	296.6831193
TMEM91	33.01927249	32.3632348	36.66870014
ZFP14	505.1948691	343.5481848	425.5791561
SIRT3	122.1713082	114.5160616	200.0110917
IFITM3	1504.578183	343.5481848	1045.61354
PGGHG	133.1777324	78.00369414	292.2384284
HUNK	102.3597447	501.2152262	110.0061004
COL6A1	4285.901569	2100.290956	3814.655987
OR1E3	0	0	4.444690926
IFNAR1	780.3554732	1350.12777	1174.509577
SOD1	2293.738796	5008.003129	5340.296147
COL6A2	5068.458327	3212.258511	9861.657992
SIK1	5.503212081	6.638612267	21.1122819
DNMT3L	8.80513933	0	0
TRPM2	147.4860838	313.6744296	263.3479374
SCYL1	909.1306359	524.4503691	952.2750308
TMEM50E	15.40899383	16.59653067	41.11339106
APP	6508.098608	12605.89487	10578.3644
DOP1B	2270.625305	1774.998955	1755.652916
URB1	1675.177758	1573.351107	3477.970649
AKT1	2218.895111	1810.681496	2764.597756
IL19	1.100642416	4.149132667	44.44690926
EMP3	101.2591023	49.789592	107.7837549
SAE1	468.8736693	1675.419771	507.8059383
NTN5	31.91863007	3.319306133	51.11394565
LMTK3	269.657392	14.9368776	61.11450023
GEMIN7	23.11349074	62.23699	67.78153662
CBLC	123.2719506	35.68254093	17.7787637
WTIP	175.0021442	29.04392867	163.3423915
ADAMTS1	217.9271984	92.1107452	336.6853376
SLC6A3	0	0.829826533	0
RNPEPL1	329.0920825	311.18495	955.608549
CAPN10	170.5995745	183.3916639	561.1422294
MYO1F	545.9186385	168.4547863	290.0160829
ERVK3-1	151.8886534	186.71097	45.55808199
NLRP12	6.603854498	16.59653067	15.55641824
CACNG8	2.201284833	1.659653067	4.444690926
ZNF787	151.8886534	177.5828781	174.4541188
TIMM29	41.82441182	76.34404107	86.67147305

FBN3	89.15203572	572.580308	273.3484919
CARM1	812.2741032	503.7047058	775.5985665
EVI5L	163.99572	102.8984901	271.1261465
TM4SF5	1.100642416	2.4894796	0
SLC47A1	55.03212081	111.1967555	380.0210742
PSMB6	444.6595362	1191.630902	818.9343031
GPR32	1.100642416	0	3.333518194
SIGLEC10	104.5610295	52.2790716	195.5664007
ACP4	0	1.659653067	18.88993643
KLK3	13130.66403	1.659653067	1957.886353
ZNF473	224.5310529	594.9856244	180.0099825
GARIN5A	8.80513933	37.342194	61.11450023
RPS11	3647.528968	2714.362591	3322.406467
PTH2	0	4.149132667	0
RPL13A	715.4175706	757.631625	471.1372381
CTU1	24.21413316	15.76670413	63.33684569
NOSIP	190.411138	303.7165112	560.0310566
IGLON5	1.100642416	1.659653067	36.66870014
RCN3	383.0235609	88.79143907	174.4541188
ZNF614	381.9229185	476.3204302	282.2378738
SLC2A5	37.42184215	10.78774493	221.1233736
RERE	8053.40056	6212.081429	22056.77872
MMEL1	3.301927249	0	0
CFAP74	9.905781747	305.3761643	11.11172731
PRDM16	25.31477557	6.638612267	26.66814555
CELA2A	1.100642416	1.659653067	2.222345463
PADI3	0	0.829826533	0
FHAD1	97.95717505	223.2233375	76.67091847
PADI1	0	0.829826533	0
EPHA2	172.8008594	143.5599903	356.6864468
ARHGEF1	0	0.829826533	0
EFHD2	305.9785917	954.3005134	158.8977006
PEX14	88.0513933	159.3266944	165.564737
PGD	681.2976557	2656.274733	885.604667
MYOM3	7.704496914	73.85456147	66.67036389
SH3BGRL	515.1006508	713.6508187	466.6925472
CNKSR1	180.5053563	160.9863475	461.1366835
RPL11	7903.713191	7021.162299	4348.018898
IL22RA1	15.40899383	47.3001124	12.22290005
ZNF593	78.14561156	63.06681654	63.33684569
C1orf216	57.23340565	87.96161254	108.8949277
KIAA0319	2665.755932	1013.218197	2686.815665
EVA1B	37.42184215	15.76670413	94.44968217
C1orf94	4.402569665	2.4894796	15.55641824

DMRTA2	12.10706658	5.808785734	3.333518194
PLK4	97.95717505	1410.705107	154.4530097
MAP3K6	411.6402637	691.2455023	548.9193293
FCN3	5.503212081	14.9368776	18.88993643
GPN2	237.7387619	247.2883069	463.359029
SYTL1	296.07281	141.0705107	73.33740027
WDTC1	931.1434842	893.7231764	1527.862506
CELA3A	1.100642416	0.829826533	4.444690926
NBPF3	204.7194894	139.4108576	270.0149737
HSPG2	7506.381279	4725.862108	6157.008105
ITGB3BP	124.372593	508.683665	81.11560939
SERBP1	1864.488253	3124.296898	1663.425579
BCL10	160.6937928	393.3377768	235.5686191
CCN1	867.306224	360.974542	568.9204385
PRKACB	704.4111464	4688.519914	791.1549848
PIGK	752.8394127	1282.081994	670.0371571
TINAGL1	162.8950776	66.38612267	65.55919115
AZIN2	51.73019357	36.51236747	173.3429461
RPS8	1350.488245	789.9948598	1565.642379
KIF2C	42.92505424	365.1236747	87.78264578
PTPRF	7980.758161	2067.927721	8156.007849
BEST4	5.503212081	2.4894796	26.66814555
MOB3C	102.3597447	29.8737552	223.345719
CYP4B1	99.05781747	23.23514293	447.8026108
TMEM61	16.50963624	21.57548987	10.00055458
DMRTB1	2.201284833	0	1.111172731
LMO4	319.1863007	341.0587052	404.4668742
SYPL2	13.207709	1.659653067	15.55641824
BARHL2	3.301927249	2.4894796	6.667036389
MTF2	554.7237778	1314.445229	396.6886651
SLC44A3	202.5182046	291.2691132	563.3645748
IGSF3	860.7023695	834.8054926	1545.641269
ZNF697	140.8822293	84.6423064	121.1178277
CTTNBP2I	1019.194877	819.0387884	1157.841986
STRIP1	372.0171367	418.2325728	720.03993
KCNA10	3.301927249	4.9789592	5.555863657
PSMA5	467.7730269	1116.946514	767.8203574
FNDC7	11.00642416	8.298265334	4.444690926
C1orf162	121.0706658	118.6651943	78.89326393
CD53	236.6381195	69.7054288	75.55974574
PROK1	4.402569665	4.9789592	4.444690926
CELSR2	742.933631	1054.709524	978.9431764
ITGA10	80.34689639	260.5655315	1000.055458
GPR161	138.6809445	421.551879	180.0099825

ALDH9A1	1026.899374	981.684789	1388.965914
ATP1B1	1825.965769	2426.412784	1736.762979
TIPRL	635.0706742	1653.844281	417.800947
NME7	413.8415485	551.8346447	272.2373192
POGK	538.2141416	1191.630902	502.2500746
MPC2	616.3597531	758.4614515	586.6992022
CREG1	322.488228	473.8309506	702.2611663
DCAF6	2612.925096	1565.052842	2681.259801
GPA33	3.301927249	3.319306133	30.00166375
RXRG	1.100642416	3.319306133	16.66759097
TBX19	44.02569665	66.38612267	50.00277291
UCK2	143.0835141	600.7944102	194.455228
TMCO1	943.2505508	1008.239238	763.3756665
XCL1	4.402569665	4.149132667	17.7787637
XCL2	26.41541799	0	0
POU2F1	1016.993593	1327.722453	751.1527665
MAEL	18.71092108	7.4684388	11.11172731
ILDR2	28.61670282	116.1757147	105.5614095
DPT	2.201284833	4.149132667	0
MGST3	595.4475472	1141.84131	1014.500704
ADCY10	46.22698148	34.02288787	81.11560939
COP1	760.5439097	1345.148811	933.3850944
NECTIN4	192.6124229	9.9579184	323.3512648
UFC1	431.4518272	692.0753288	530.0293929
PPOX	129.8758051	98.74935747	182.232328
FCGR2A	277.3618889	149.368776	106.6725822
NUF2	16.50963624	365.9535012	2.222345463
RGS5	1394.513941	748.5035331	593.3662386
SDHC	583.3404806	656.3927879	1351.186041
PFDN2	150.788011	522.790716	191.1217098
NR1I3	5.503212081	4.9789592	7.77820912
USP21	296.07281	310.3551235	724.4846209
PRCC	589.9443351	680.4577574	618.9232114
FCRL5	35.22055732	9.9579184	77.7820912
METTL25	103.4603871	155.1775617	296.6831193
MRPL24	204.7194894	377.5710727	416.6897743
PIGM	357.7087853	375.9114196	453.3584744
CASQ1	8.80513933	0	30.00166375
ISG20L2	716.518213	789.9948598	500.0277291
CRABP2	244.3426164	736.0561351	492.24952
HDGF	616.3597531	1514.433423	536.6964293
ABL2	717.6188554	1211.546739	807.8225758
XPR1	773.7516187	1626.460005	1037.835331
RGS16	13.207709	371.7622869	41.11339106

TOR1AIP1	1310.865118	793.3141659	1164.509023
FAM163A	2.201284833	49.789592	1.111172731
HMCN1	5151.006508	345.2078379	488.9160018
RGL1	657.0835225	258.9058784	440.0244016
LYPLAL1	738.5310613	570.0908284	378.9099014
LHX9	7.704496914	15.76670413	32.22400921
PRUNE1	378.6209912	475.4906036	351.1305831
RORC	356.6081429	77.1738676	120.006655
TUFT1	252.0471133	594.1557979	221.1233736
SF3B4	906.929351	1487.049148	978.9431764
ECM1	255.3490406	51.44924507	68.89270935
ZNF687	648.2783832	941.8531154	1850.102598
TARS2	202.5182046	350.1867971	281.1267011
CGN	1101.743059	193.3495823	532.2517384
SNX27	652.6809529	641.4559103	795.5996757
SETDB1	948.7537628	1114.457034	808.9337485
ADAMTSI	141.9828717	29.04392867	197.7887462
MCL1	1398.916511	1875.407965	1632.312742
CTSK	538.2141416	700.3735942	430.0238471
RFX5	366.5139246	446.446675	295.5719466
PI4KB	1346.085675	871.31786	1570.08707
PIP5K1A	633.9700318	980.8549624	554.475193
ANP32E	664.7880194	1298.678525	503.3612473
MINDY1	139.7815869	113.6862351	173.3429461
ANXA9	48.42826632	6.638612267	52.22511838
SELENBP	482.0813783	255.5865723	2482.359882
CERS2	1251.430427	697.054288	777.820912
ENSA	489.7858753	872.9775131	368.9093468
SEMA6C	158.4925079	345.2078379	554.475193
MRPL9	241.0406892	286.290154	350.0194104
ARNT	1619.044994	1141.011483	1420.078751
POGZ	5710.132856	4716.734016	4998.054946
C1orf56	170.5995745	135.2617249	87.78264578
OAZ3	52.83083598	19.9158368	52.22511838
HORMAD	14.30835141	561.7925631	6.667036389
GOLPH3L	714.3169282	594.1557979	407.8003924
GABPB2	468.8736693	234.8409089	422.2456379
SYT14	8.80513933	32.3632348	21.1122819
KCNH1	36.32119974	82.1528268	17.7787637
DTL	60.5353329	1404.896321	23.33462736
DYRK3	291.6702403	412.4237871	106.6725822
EIF2D	689.0021526	278.8217152	721.1511027
INTS7	783.6574004	2408.986426	564.4757476
VASH2	89.15203572	102.8984901	27.77931829

TAF1A	231.1349074	302.0568581	195.5664007
SMYD2	804.5696063	1293.699566	423.3568107
SUSD4	179.4047139	148.5389495	424.4679834
DUSP10	179.4047139	455.5747668	131.1183823
HHIPL2	37.42184215	19.9158368	88.89381852
TP53BP2	2059.301961	3213.088337	1753.43057
ATP8B2	1243.72593	365.1236747	597.8109295
FLG2	47.3276239	29.04392867	104.4502368
CRNN	2.201284833	0	12.22290005
ADAM15	516.2012932	760.9509311	1178.954268
JTB	7.704496914	29.04392867	30.00166375
RAB13	23.11349074	40.66150013	5.555863657
S100A8	3.301927249	238.9900416	43.33573653
TPM3	321.3875856	988.3234012	205.5669553
NUP210L	39.62312699	54.7685512	54.44746384
SNAPIN	117.7687385	224.8829905	147.7859733
SLC27A3	2.201284833	28.21410213	0
S100A7	5.503212081	0.829826533	0
UBAP2L	6158.094319	4471.935188	3285.737767
SLC39A1	2.201284833	1.659653067	2.222345463
HAX1	363.2119974	560.9627366	444.4690926
CREB3L4	464.4710997	83.81247987	205.5669553
EFNA3	6.603854498	9.9579184	4.444690926
AQP10	0	0.829826533	28.89049102
KCNN3	55.03212081	125.3038065	38.8910456
C1orf43	750.6381279	1388.29979	1033.39064
GATAD2B	96.85653263	103.7283167	43.33573653
ILF2	1329.576039	3322.62544	1060.058786
RIT1	249.8458285	273.0129295	234.4574463
INTS3	116.6680961	22.4053164	481.1377927
FLG	41.82441182	52.2790716	218.9010281
ACTA1	16.50963624	11.61757147	14.44524551
C1orf131	237.7387619	248.1181335	192.2328825
GALNT2	1287.751627	2090.333038	2433.468282
TTC13	909.1306359	526.9398487	362.2423104
SCCPDH	1189.794452	1026.495422	2064.558935
LYST	3940.29985	2057.139976	2143.452199
MAP3K21	227.8329802	546.8556855	291.1272556
CEP170	102.3597447	88.79143907	90.00499125
ACP1	417.1434758	944.342595	224.4568918
SNAP47	324.6895128	417.4027463	792.2661575
SRP9	563.5289171	1404.896321	596.6997568
NVL	961.9614718	798.2931251	997.8331128
SDE2	527.2077174	721.1192575	377.7987287

DEGS1	4540.149967	1459.664872	2285.682309
FBXO28	406.1370516	508.683665	322.2400921
ARF1	1639.9572	1452.196433	1661.203234
LEFTY2	11.00642416	1.659653067	0
CNIH4	327.9914401	575.8996142	176.6764643
ITPKB	775.9529035	387.5289911	1181.176614
GUK1	487.5845904	623.1997266	581.1433385
CDC42BP/	5895.040782	4713.41471	5200.288383
CNIH3	27.51606041	13.27722453	33.33518194
C1orf35	81.44753881	112.026582	73.33740027
MBOAT2	614.1584683	882.105605	420.0232925
PARP1	2897.991482	6514.968113	2952.385947
PSEN2	27.51606041	24.894796	24.44580009
PYCR2	97.95717505	121.9845004	161.1200461
LBR	759.4432672	1315.275055	356.6864468
WNT9A	42.92505424	282.1410213	70.00388208
EPHX1	1394.513941	765.9298903	3147.952348
REN	5.503212081	8.298265334	5.555863657
SOX13	552.522493	360.1447155	250.0138646
ETNK2	112.2655265	161.816174	203.3446099
PPFIA4	34.11991491	183.3916639	80.00443666
PLEKHA6	725.3233523	219.9040313	1424.523442
PTPN7	44.02569665	4.149132667	10.00055458
SYT2	3.301927249	75.51421454	58.89215477
ARL8A	614.1584683	586.6873591	491.1383473
OSR1	311.4818038	82.1528268	441.1355744
GDF7	60.5353329	7.4684388	7.77820912
PDIA6	2410.406892	7447.693137	3419.078495
RHOB	534.9122143	874.6371662	1755.652916
ATP6V1C2	17.61027866	31.53340827	11.11172731
HNRNPLL	529.4090022	780.0369414	540.0299475
GALM	94.6552478	12.447398	25.55697282
CAMKMT	242.1413316	178.4127047	243.3468282
ABCG8	1.100642416	6.638612267	25.55697282
EML4	2226.599608	3729.240441	1345.630178
CALM2	862.9036544	2257.957997	621.1455569
CHAC2	23.11349074	82.98265334	16.66759097
RPS27A	778.1541883	1038.94282	1272.292777
WDPCP	408.3383364	297.0778989	280.0155283
VPS54	1178.788028	755.1421454	494.4718655
REG3G	1.100642416	1.659653067	1.111172731
ASXL2	2659.152078	2974.098296	1932.32938
ETAA1	379.7216336	531.9188079	215.5675099
SNRPG	129.8758051	307.0358173	111.1172731

ABHD1	50.62955115	8.298265334	47.78042745
MEIS1	1018.094235	353.5061032	107.7837549
CIAO1	286.1670282	428.1904912	486.6936564
ZNF514	55.03212081	75.51421454	14.44524551
SNRNP20(	6564.231371	9413.552195	8760.485815
MRPS5	49.52890873	78.83352067	34.44635467
ANKRD53	19.81156349	19.9158368	12.22290005
EXOC6B	868.4068665	493.7467874	705.5946845
SFXN5	78.14561156	73.85456147	65.55919115
TEX261	70.44111464	91.28091867	74.44857301
DQX1	7.704496914	3.319306133	40.00221833
ST6GAL2	9.905781747	1.659653067	5.555863657
NPHP1	372.0171367	333.5902664	406.6892197
MALL	64.93790256	219.9040313	111.1172731
THNSL2	210.2227015	48.95976547	355.5752741
RALB	199.2162773	186.71097	276.6820101
C1QL2	4.402569665	8.298265334	1.111172731
TMEM177	57.23340565	57.2580308	90.00499125
NT5DC4	2.201284833	7.4684388	2.222345463
RABL2A	250.9464709	132.7722453	243.3468282
SLC20A1	489.7858753	1740.14624	806.711403
FBLN7	72.64239948	341.8885317	197.7887462
SNRPA1P1	6.603854498	0.829826533	7.77820912
ZC3H8	335.695937	565.1118692	84.44912759
LIPT1	106.7623144	81.32300027	100.0055458
CNGA3	0	15.76670413	37.77987287
LYG1	28.61670282	48.12993894	42.22456379
AFF3	682.3982981	459.7238995	844.4912759
UBXN4	1342.783748	826.5072272	997.8331128
NXPH2	3.301927249	7.4684388	18.88993643
SPOPL	285.0663858	380.8903788	237.7909645
THSD7B	64.93790256	17.4263572	148.897146
GPR17	1.100642416	1.659653067	3.333518194
POLR2D	116.6680961	293.7585928	81.11560939
AMMECR	219.0278408	183.3916639	117.7843095
GALNT13	39.62312699	632.3278184	184.4546734
PKP4	3159.944377	2375.793365	3233.512648
SCN1A	64.93790256	44.8106328	25.55697282
SLC4A10	93.55460539	23.23514293	422.2456379
SCRN3	403.9357668	456.4045934	285.571392
LNPK	423.7473303	677.1384512	306.6836739
ZNF385B	101.2591023	48.12993894	1338.963141
TMEFF2	6219.730295	60.57733694	6122.56175
CDCA7	18.71092108	383.3798584	16.66759097

UBR3	2940.916536	2852.113795	3567.975641
PHOSPHO	177.203429	181.7320108	140.0077642
GULP1	288.3683131	886.2547376	226.6792372
FAM171B	242.1413316	607.4330224	515.5841474
HSPD1	1278.946488	4424.635076	1240.068768
CCDC150	40.7237694	340.2288787	50.00277291
METTL21	183.8072835	668.8401859	162.2312188
UNC80	421.5460454	914.4688398	293.3496011
PTH2R	9.905781747	54.7685512	17.7787637
CPO	15.40899383	14.9368776	47.78042745
NBEAL1	3176.454013	2575.78156	3531.306941
KANSL1L	1707.096388	1222.334484	1211.178277
SPAG16	258.6509678	414.0834401	232.2351009
ABCA12	50.62955115	362.6341951	307.7948466
SUMF1	348.903646	538.5574202	1561.197688
NYAP2	15.40899383	39.00184707	64.44801842
RHBDD1	449.0621058	417.4027463	350.0194104
ACKR3	140.8822293	576.7294407	631.1461115
TRPM8	1734.612448	62.23699	727.8181391
HES6	16.50963624	447.2765015	126.6736914
ESPNL	14.30835141	4.9789592	7.77820912
ANKMY1	446.860821	337.7393991	736.7075209
COPS7B	181.6059987	281.3111948	222.2345463
DIS3L2	730.8265644	705.3525534	1233.401732
CPNE9	13.207709	19.9158368	43.33573653
FANCD2	230.034265	1064.667442	226.6792372
TAMM41	139.7815869	88.79143907	128.8960368
VGLL4	530.5096447	623.1997266	1073.392859
RAB5A	1050.012865	1536.008913	615.5896932
RETREG2	526.107075	814.8896558	1558.975342
CTDSP1	432.5524696	299.5673785	776.7097393
CNOT9	807.8715336	1363.404994	547.8081566
MARCHF4	6.603854498	53.93872467	1.111172731
STK11IP	171.7002169	204.9671537	730.0404846
GMPPA	433.653112	272.1831029	623.3679023
GRIP2	29.71734524	24.06496947	46.66925472
EAF1	189.3104956	429.8501443	423.3568107
CNTN4	338.9978642	15.76670413	113.3396186
DYNC1LI1	342.2997915	1055.53935	733.3740027
RBMS3	384.1242033	121.9845004	117.7843095
GADL1	22.01284833	14.10705107	26.66814555
OSBPL10	582.2398382	206.6268068	1201.177723
POMGNT2	505.1948691	363.4640216	322.2400921
ACKR2	31.91863007	2.4894796	92.22733671

GASK1A	25.31477557	9.128091867	114.4507913
CSRNP1	110.0642416	45.64045934	231.1239281
SLC25A38	425.9486151	357.6552359	380.0210742
ITGA9	117.7687385	13.27722453	72.22622754
SLC22A14	3.301927249	2.4894796	13.33407278
GOLGA4	7459.053655	1908.601027	1480.082078
CTDSPL	681.2976557	246.4584804	315.5730557
STAC	39.62312699	30.70358173	25.55697282
IQSEC1	2523.773061	1471.282444	4515.805981
CAND2	68.23982981	199.9881945	62.22567296
RPL32	3355.858727	2963.310551	3121.284203
PTPRG	1656.466837	1166.736106	1263.403396
IL17RD	238.8394043	107.8774493	397.7998379
SHQ1	288.3683131	270.5234499	282.2378738
SLC25A26	16.50963624	28.21410213	7.77820912
UBA3	748.4368431	580.0487468	357.7976195
ARL6IP5	607.5546138	149.368776	474.4707563
TMF1	2446.728091	1040.602473	847.8247941
LRIG1	2031.7859	237.3303885	468.9148927
LRTM1	0	3.319306133	2.222345463
ENSG0000	0	0	1.111172731
LIMD1	334.5952946	165.1354801	483.3601382
ZNF660	5.503212081	0	0
NFKBIZ	592.14562	262.2251845	1864.547843
COL8A1	1325.173469	220.7338579	205.5669553
NXPE3	191.5117804	416.5729197	248.9026918
ADGRG7	7.704496914	9.128091867	27.77931829
MYH15	48.42826632	47.3001124	77.7820912
PHLDB2	930.0428418	746.84388	1152.286123
ABHD10	204.7194894	526.9398487	322.2400921
TAGLN3	2.201284833	281.3111948	8.889381852
PLA1A	257.5503254	9.9579184	24.44580009
RABL3	171.7002169	283.8006744	548.9193293
ADPRH	44.02569665	38.17202053	31.11283648
IGSF11	14.30835141	151.8582556	80.00443666
ATG3	849.6959454	1309.46627	490.0271746
NR1I2	2.201284833	5.808785734	2.222345463
BOC	1032.402586	87.96161254	977.8320037
SRPRB	523.9057902	277.9918887	394.4663197
TMEM108	4.402569665	113.6862351	72.22622754
AGTR1	79.24625397	6.638612267	4.444690926
MED12L	351.1049308	879.6161254	827.8236849
EIF2A	1581.623152	1962.539751	913.3839852
ALDH1L1	79.24625397	5.808785734	617.8120387

OSBPL11	509.5974387	1540.158046	647.8137024
TRPC1	422.6466879	271.3532764	976.7208309
NCEH1	199.2162773	96.25987787	335.5741649
SPATA16	8.80513933	5.808785734	4.444690926
FAM86B2	0	1.659653067	0
LPP	4941.884449	1501.156199	3420.189667
TMEM44	37.42184215	188.3706231	86.67147305
RUBCN	789.1606125	676.3086247	758.9309756
AMT	1.100642416	3.319306133	1.111172731
TCTA	41.82441182	42.3211532	61.11450023
UCN2	2.201284833	11.61757147	0
DCAF1	1466.055699	1149.309749	1176.731923
MANF	597.648832	702.0332472	147.7859733
ENSG0000	1.100642416	3.319306133	0
STXBP5L	64.93790256	2189.082395	3690.204641
EAF2	114.4668113	82.1528268	120.006655
ILDR1	177.203429	77.1738676	372.242865
MUC4	450.1627483	532.7486344	18.88993643
SLIT2	1582.723795	4958.213537	621.1455569
EIF2B5	548.1199233	560.13291	852.269485
AHSG	3.301927249	4.149132667	3.333518194
ECE2	1.100642416	0	3.333518194
VWA5B2	14.30835141	165.1354801	84.44912759
DGKQ	51.73019357	44.8106328	495.5830382
FIP1L1	502.9935842	698.7139411	284.4602192
SLC26A1	9.905781747	5.808785734	90.00499125
LYAR	209.1220591	206.6268068	160.0088733
CENPC	1101.743059	1403.236668	598.9221022
EPHA5	57.23340565	39.8316736	92.22733671
CORIN	88.0513933	107.8774493	8158.230194
ATP10D	775.9529035	335.2499195	1416.745233
OCIAD2	287.2676707	1516.922903	245.5691736
SLC10A4	6.603854498	32.3632348	22.22345463
SLC10A6	7.704496914	2.4894796	42.22456379
SCD5	257.5503254	550.1749916	665.5924661
PLAC8	45.12633907	28.21410213	51.11394565
ENOPH1	201.4175622	355.9955828	232.2351009
CABS1	8.80513933	3.319306133	3.333518194
GC	15.40899383	0.829826533	7.77820912
TRMT10A	208.0214167	227.3724701	148.897146
KLHL8	419.3447606	468.8519914	582.2545113
SNCA	77.04496914	73.02473494	235.5686191
TBCK	883.8158603	335.2499195	948.9415126
CAMK2D	851.8972302	558.473257	688.9270935

CISD2	147.4860838	300.3972051	152.2306642
DDIT4L	20.91220591	10.78774493	1.111172731
ANK2	512.899366	587.5171856	267.7926283
TIFA	60.5353329	175.9232251	15.55641824
SPATA5	526.107075	1342.659331	437.8020562
FABP2	4.402569665	0	0
CCNA2	96.85653263	1011.558544	31.11283648
METTL14	583.3404806	342.7183583	293.3496011
USP53	2035.087828	553.4942978	2032.334926
SETD7	1516.68525	695.394635	1050.058231
NAF1	709.9143585	516.9819303	205.5669553
MARCHF1	77.04496914	39.00184707	43.33573653
SFRP2	2188.077124	175.0933985	237.7909645
RNF175	25.31477557	5.808785734	10.00055458
PDGFC	413.8415485	109.5371024	156.6753551
CBR4	1005.987168	738.5456147	324.4624376
GLRA3	5.503212081	307.0358173	334.4629922
CYP4V2	283.9657434	183.3916639	246.6803464
ROPN1L	11.00642416	7.4684388	10.00055458
NDUFS6	316.9850159	985.0040951	257.7920737
MARCHF6	2780.222744	5686.801233	8624.922741
NKD2	24.21413316	4.149132667	1.111172731
CDH18	8.80513933	9.9579184	12.22290005
ADAMTS1	15.40899383	11.61757147	16.66759097
SRD5A1	66.03854498	199.158368	113.3396186
MYO10	2027.383331	2573.29208	3065.725566
OTULINL	361.0107125	507.8538384	254.4585555
RPL37	1403.319081	1156.778188	943.385649
SKP2	285.0663858	966.7479114	257.7920737
OSMR	1452.84799	280.4813683	1104.505695
UGT3A1	8.80513933	2.4894796	3.333518194
PLK2	596.5481896	407.4448279	224.4568918
SHISAL2B	5.503212081	0	2.222345463
GZMA	56.13276323	0	7.77820912
PIK3R1	2248.612456	767.5895434	682.2600571
HAPLN1	20.91220591	2673.701091	37.77987287
LHFPL2	66.03854498	171.7740924	127.7848641
SSBP2	333.4946521	880.4459519	198.8999189
BHMT	3.301927249	0	0
ANKRD31	85.85010847	24.06496947	37.77987287
IQGAP2	2205.687402	291.2691132	254.4585555
CRHBP	5.503212081	32.3632348	11.11172731
RASA1	1168.882246	1045.581432	643.3690115
LIX1	3.301927249	0.829826533	5.555863657

GIN1	178.3040714	213.2654191	117.7843095
PPIP5K2	998.2826716	1112.797381	848.9359668
PAM	2566.698115	3891.056615	1765.65347
GTF2H2	9.905781747	5.808785734	11.11172731
SLC30A5	829.8843819	747.6737066	752.2639392
BTF3	864.0042968	859.7002886	371.1316923
FBXL17	507.3961539	341.8885317	941.1633035
SPATA9	12.10706658	9.9579184	14.44524551
TSLP	16.50963624	5.808785734	0
TNFAIP8	315.8843735	136.921378	40.00221833
FEM1C	1185.391882	1185.822116	502.2500746
COMMD1(	211.3233439	166.7951332	151.1194915
ATG12	190.411138	151.8582556	182.232328
MEGF10	36.32119974	32.3632348	330.0183012
ADAMTS1	4.402569665	6.638612267	6.667036389
YIPF5	399.5331971	353.5061032	281.1267011
ARHGAP2	1016.993593	449.7659811	428.9126743
CXCL14	20.91220591	6.638612267	13.33407278
LECT2	8.80513933	0.829826533	12.22290005
SLC25A48	9.905781747	32.3632348	12.22290005
DDX46	1456.149917	2188.252568	716.7064118
IL9	0	1.659653067	1.111172731
TIMD4	25.31477557	1.659653067	0
RNF145	839.7901636	877.9564723	588.9215477
C1QTNF2	27.51606041	11.61757147	0
GABRA6	18.71092108	4.9789592	33.33518194
GABRB2	6.603854498	15.76670413	136.674246
FBXO38	767.1477642	580.8785734	890.0493579
SPINK7	8.80513933	0	0
PCYOX1L	162.8950776	133.6020719	85.56030032
GLRA1	5.503212081	4.149132667	15.55641824
TNIP1	723.1220675	453.0852872	731.1516573
G3BP1	992.7794595	1706.953179	828.9348577
ZNF300	217.9271984	395.8272564	96.67202764
N4BP3	27.51606041	86.30195947	60.0033275
NHP2	208.0214167	759.291278	365.5758286
RMND5B	253.1477557	314.5042561	410.0227379
BOD1	409.4389789	764.2702372	338.9076831
CPLX2	1.100642416	391.6781237	13.33407278
TENM2	197.0149925	26.55444907	338.9076831
KCNMB1	205.8201318	9.128091867	1.111172731
FAM50B	101.2591023	88.79143907	127.7848641
MYLK4	18.71092108	7.4684388	33.33518194
FAM217A	4.402569665	4.149132667	12.22290005

TBC1D7	166.1970049	292.0989397	274.4596647
FARS2	268.5567496	286.290154	460.0255108
GFOD1	149.6873686	163.4758271	155.5641824
CDKAL1	496.3897298	5892.598213	328.9071285
PSD2	0	7.4684388	31.11283648
LRRTM2	11.00642416	13.27722453	6.667036389
ZMAT2	365.4132822	516.1521038	284.4602192
GFRA3	3.301927249	4.149132667	4.444690926
KLHL3	86.95075089	78.00369414	153.3418369
DCDC2	1982.256992	15.76670413	97.78320037
SLC17A4	18.71092108	4.9789592	36.66870014
H2BC1	2.201284833	0	8.889381852
KAAG1	2.201284833	0	0
TRIM7	30.81798766	48.95976547	35.55752741
TRIM41	683.4989405	666.3507063	554.475193
HIGD2A	193.7130653	436.4887566	424.4679834
FAM193B	852.9978726	639.7962572	1562.30886
PLA2G7	443.5588938	127.7932861	153.3418369
TNFRSF21	522.8051477	544.3662059	1684.537861
RNF44	608.6552562	947.6619011	612.256175
MMUT	1278.946488	1424.812158	1568.975897
RASGEF1(	6.603854498	21.57548987	0
DOK3	75.94432672	111.1967555	157.7865279
ABT1	6.603854498	24.894796	13.33407278
DAAM2	243.241974	194.1794088	227.7904099
PRIM2	442.4582514	824.0177476	513.3618019
MLIP	17.61027866	17.4263572	77.7820912
HMGCLL1	38.52248457	34.02288787	155.5641824
LGSN	34.11991491	198.3285415	23.33462736
FGD2	126.5738779	32.3632348	166.6759097
SCUBE3	118.869381	50.61941854	387.7992833
ANO7	195.9143501	120.3248473	117.7843095
CRIP3	6.603854498	2.4894796	8.889381852
TTBK1	7.704496914	37.342194	36.66870014
TCTE1	5.503212081	7.4684388	25.55697282
RPL7L1	238.8394043	575.0697876	323.3512648
NFKBIE	36.32119974	43.15097974	74.44857301
CYP39A1	156.2912231	110.3669289	472.2484109
IRAK1BP1	155.1905807	147.7091229	36.66870014
PHIP	3150.038595	5270.228313	2397.910754
PRSS35	11.00642416	0.829826533	12.22290005
MMS22L	223.4304105	830.6563599	144.4524551
FAXC	81.44753881	121.1546739	30.00166375
GABRR1	2.201284833	0.829826533	34.44635467

PNRC1	1743.417587	835.6353191	1077.837549
PM20D2	868.4068665	477.9800832	303.3501557
RARS2	677.9957284	568.4311754	337.7965104
SCML4	35.22055732	2.4894796	0
TBC1D32	462.2698148	382.5500319	376.687556
CLVS2	61.63597531	0	0
GPR6	0	45.64045934	0
RNF217	307.0792341	76.34404107	148.897146
RSPO3	42.92505424	2.4894796	8.889381852
ARHGAP1	478.7794511	209.9461129	355.5752741
TAAR2	6.603854498	0	0
TAAR6	4.402569665	1.659653067	0
TAAR8	4.402569665	1.659653067	0
ABRACL	57.23340565	107.0476228	43.33573653
TAAR1	8.80513933	2.4894796	0
SLC18B1	104.5610295	43.98080627	75.55974574
MTFR2	17.61027866	103.7283167	28.89049102
SLC2A12	1690.586751	186.71097	1014.500704
SHPRH	2046.094252	2124.355925	2361.242054
AIG1	285.0663858	334.4200929	747.8192483
DYNLT1	184.9079259	766.7597168	168.8982552
TIAM2	136.4796596	175.0933985	384.4657651
TMEM181	460.06853	1087.072759	874.4929396
PNLDC1	12.10706658	9.9579184	22.22345463
WTAP	1118.252695	1584.138852	806.711403
ZMYM4	2681.164926	2821.410213	1830.101489
VIP	4.402569665	1.659653067	1.111172731
ARMT1	236.6381195	455.5747668	437.8020562
SLC22A3	127.6745203	12.447398	193.3440553
LINC0155	3.301927249	0	0
VWDE	93.55460539	873.8073396	350.0194104
GNA12	616.3597531	316.1639092	606.7003114
C7orf50	134.2783748	124.47398	88.89381852
SDK1	1096.239847	715.3104718	2215.678426
CCZ1B	335.695937	277.9918887	184.4546734
INTS15	276.2612465	129.4529392	237.7909645
RBAK	380.822276	373.42194	132.229555
CREB5	84.74946605	97.91953094	66.67036389
EGFR	3836.839463	273.0129295	801.1555394
CDCA5	14.30835141	263.0550111	21.1122819
IGFBP3	264.1541799	210.7759395	31.11283648
PURB	418.2441182	370.1026339	285.571392
RPL32P18	14.30835141	21.57548987	31.11283648
IGFBP1	2.201284833	0	6.667036389

SSC4D	2.201284833	107.0476228	7.77820912
MDH2	1136.963616	926.0864112	1012.278358
POMZP3	2.201284833	0	0
NIPSNAP2	553.6231354	560.13291	327.7959558
CCT6A	974.0685384	1749.274332	407.8003924
PSPH	62.73661773	192.5197557	53.33629111
TRIM50	3.301927249	3.319306133	14.44524551
ZNF92	192.6124229	214.0952456	38.8910456
ATXN7L1	859.6017271	912.8091867	774.4873938
TMEM168	996.0813867	465.5326852	810.0449212
ASB15	4.402569665	0	15.55641824
TRAPPC14	99.05781747	41.49132667	362.2423104
SLC12A9	169.4989321	96.25987787	370.0205196
GIGYF1	449.0621058	341.8885317	976.7208309
TRIM4	390.7280578	160.9863475	245.5691736
MEPCE	15.40899383	12.447398	7.77820912
ZAN	12.10706658	10.78774493	13.33407278
TMEM209	425.9486151	700.3735942	212.2339917
AGBL3	115.5674537	68.04577574	26.66814555
STRA8	5.503212081	2.4894796	17.7787637
ZC3HAV1	183.8072835	153.5179087	94.44968217
TMEM140	8.80513933	7.4684388	10.00055458
TLK2	862.9036544	1263.82581	505.5835928
EPHA1	27.51606041	2.4894796	2.222345463
NOM1	320.2869431	214.0952456	77.7820912
NCAPG2	491.9871601	2370.814406	278.9043556
ASB10	2.201284833	0	14.44524551
NLGN4X	156.2912231	5.808785734	126.6736914
SHROOM2	611.9571835	540.2170732	1091.171622
RAB19	72.64239948	41.49132667	7.77820912
LUC7L2	510.6980812	211.605766	111.1172731
DENND2A	201.4175622	156.0073883	91.11616398
CLTRN	2.201284833	4.9789592	5.555863657
SH3KBP1	785.8586852	921.107452	670.0371571
TMEM47	394.029985	595.815451	184.4546734
LANCL3	8.80513933	36.51236747	20.00110917
SYTL5	25.31477557	7.4684388	87.78264578
CASK	1429.734499	2539.269192	2113.450535
KDM6A	1855.683114	1638.077577	3005.722239
SPIN2A	0	3.319306133	0
MSN	1876.59532	1556.754577	551.1416748
AKAP4	9.905781747	0.829826533	16.66759097
CCNB3	117.7687385	173.4337455	92.22733671
HDAC8	198.1156349	319.4832153	51.11394565

SLC16A2	202.5182046	40.66150013	190.0105371
DIPK2B	55.03212081	50.61941854	37.77987287
ZNF157	5.503212081	7.4684388	14.44524551
ZNF182	341.1991491	478.8099098	452.2473017
CHST7	18.71092108	57.2580308	71.11505481
KRBOX4	165.0963624	146.0494699	103.339064
NDUFB11	293.8715252	892.0635234	910.050467
ZNF41	1189.794452	803.2720843	563.3645748
RAB41	8.80513933	3.319306133	48.89160018
ZMYM3	1061.019289	1126.074606	1614.533979
TAF1	3219.379068	3128.446031	3243.513203
GPR174	96.85653263	4.149132667	2.222345463
NONO	2195.781621	4623.793444	1598.977561
LPAR4	6.603854498	1.659653067	8.889381852
EBP	57.23340565	73.02473494	33.33518194
AWAT2	1.100642416	2.4894796	0
OGT	6177.905883	5753.187356	7853.768866
SNX12	508.4967963	538.5574202	422.2456379
ITGB1BP2	89.15203572	66.38612267	43.33573653
IL2RG	22.01284833	0.829826533	0
GCNA	123.2719506	36.51236747	51.11394565
ZNF711	91.35332055	1095.371024	407.8003924
CPXCR1	0	0.829826533	0
DIAPH2	1186.492525	698.7139411	1360.075423
NXF3	5.503212081	4.9789592	13.33407278
RIPPLY1	0	3.319306133	1.111172731
PRPS1	411.6402637	857.210809	374.4652105
RADX	40.7237694	61.40716347	16.66759097
FRMPD3	130.9764475	293.7585928	346.6858922
HTR2C	4.402569665	78.00369414	128.8960368
DOCK11	997.1820292	743.5245739	322.2400921
IGSF1	17.61027866	98.74935747	150.0083187
ARHGAP3	4.402569665	0	8.889381852
GPC3	91.35332055	3458.716991	273.3484919
RBMX	1561.811589	2686.148489	1680.09317
MCPH1	40.7237694	58.08785734	5.555863657
MFHAS1	8.80513933	14.10705107	3.333518194
FBXO25	518.4025781	415.7430932	295.5719466
FATE1	0	0	8.889381852
MAGEA4	0	7.4684388	0
NSDHL	0	0.829826533	0
RPL10	2042.792325	1623.140699	2204.566699
CSGALNA	319.1863007	53.10889814	303.3501557
ATP6V1B2	761.6445521	1081.263973	672.2595025

CCDC25	274.0599617	243.1391743	140.0077642
HMBOX1	745.1349158	567.6013488	487.8048291
CHRNB3	8.80513933	5.808785734	42.22456379
CHRNA6	5.503212081	4.149132667	10.00055458
GNRH1	7.704496914	6.638612267	8.889381852
BIN3	102.3597447	98.74935747	83.33795486
DOK2	60.5353329	33.19306133	4.444690926
SLC25A37	731.9272068	255.5865723	380.0210742
CHMP7	233.3361923	265.5444907	261.1255919
DOCK5	1955.841574	692.0753288	1437.857514
STAR	1.100642416	3.319306133	0
PLPBP	298.2740948	424.0413586	226.6792372
ERLIN2	920.13706	590.0066652	733.3740027
SNTG1	6.603854498	5.808785734	6.667036389
PXDNL	97.95717505	48.95976547	83.33795486
ST18	31.91863007	1428.96129	28.89049102
RGS20	4.402569665	11.61757147	16.66759097
TACC1	1769.833005	1255.527545	1406.744678
GOLGA7	488.6852328	667.1805328	153.3418369
PLPP5	1504.578183	281.3111948	266.6814555
GINS4	11.00642416	258.0760519	18.88993643
NSD3	5721.13928	9564.580624	2911.272556
DNAJC5B	2.201284833	0.829826533	3.333518194
CRH	3.301927249	3.319306133	3.333518194
TRIM55	2.201284833	40.66150013	3.333518194
ADHFE1	72.64239948	15.76670413	36.66870014
MRPS28	53.9314784	142.7301637	155.5641824
PMP2	4.402569665	1.659653067	14.44524551
LACTB2	274.0599617	501.2152262	130.0072096
PRDM14	6.603854498	1.659653067	0
TERF1	340.0985066	649.7541756	202.2334371
RPL7	1828.167053	2233.893028	1990.110362
SLC26A7	36.32119974	187.5407965	140.0077642
PSKH2	4.402569665	6.638612267	26.66814555
ATP6V0D2	3.301927249	31.53340827	15.55641824
SYBU	150.788011	300.3972051	682.2600571
DPYS	106.7623144	15.76670413	7.77820912
MTDH	2043.892967	2633.03959	1062.281131
LRP12	457.8672452	1687.037342	922.2733671
EBAG9	361.0107125	578.3890938	275.5708374
RSPO2	36.32119974	19.08601027	6.667036389
POLR2K	291.6702403	707.0122064	258.9032464
MAL2	1378.004305	2011.499517	1576.754106
EIF3H	2858.368355	4725.032281	2016.778508

UTP23	210.2227015	380.8903788	206.678128
NDUFB9	0	13.27722453	0
TATDN1	0	4.149132667	1.111172731
FAM83A	3.301927249	30.70358173	1.111172731
GSDMC	0	3.319306133	1.111172731
FAM135B	154.0899383	104.5581432	284.4602192
ZNF7	386.3254881	715.3104718	511.1394565
ARHGAP3	294.9721676	914.4688398	1160.064332
SLC39A4	1.100642416	9.128091867	0
NAPRT	17.61027866	15.76670413	15.55641824
VLDLR	296.07281	187.5407965	145.5636278
AK3	693.4047223	833.975666	803.3778848
UHRF2	729.725922	1336.020719	1428.968133
NFIB	4049.26345	3535.061032	4465.803208
CER1	1.100642416	4.149132667	8.889381852
PLIN2	186.0085684	311.18495	95.5608549
IFNA5	1.100642416	1.659653067	10.00055458
HAUS6	374.2184215	1063.837616	256.680901
CDKN2B	66.03854498	107.0476228	47.78042745
IFNA16	6.603854498	0.829826533	0
CDKN2A	24.21413316	663.0314002	138.8965914
C9orf72	422.6466879	665.5208798	364.4646559
IFNK	3.301927249	0	2.222345463
ZCCHC7	638.3726015	865.5090743	445.5802653
FBXO10	8.80513933	18.25618373	4.444690926
SIGMAR1	217.9271984	318.6533888	336.6853376
ZNG1E	241.0406892	310.3551235	264.4591101
CEP78	259.7516102	1187.481769	281.1267011
NTRK2	193.7130653	155.1775617	2754.597201
IDNK	40.7237694	50.61941854	71.11505481
SHC3	224.5310529	63.06681654	33.33518194
AUH	558.0257051	266.3743172	712.2617209
MFSD14B	555.8244202	1332.701413	811.1560939
AOPEP	594.3469048	1367.554127	1107.839213
OR13C4	3.301927249	3.319306133	31.11283648
ZNF462	7554.809545	1394.938403	4829.156691
INIP	134.2783748	393.3377768	106.6725822
UGCG	675.7944436	1446.387648	638.9243206
ACTL7B	1.100642416	7.4684388	1.111172731
SNX30	390.7280578	482.9590424	297.794292
STOM	1343.88439	404.9553483	276.6820101
GSN	2386.192759	1733.507628	9303.84928
MRRF	165.0963624	230.6917763	194.455228
NR6A1	103.4603871	114.5160616	142.2301096

CRB2	4.402569665	323.632348	23.33462736
OR5C1	0	0	4.444690926
ALAD	201.4175622	156.8372148	386.6881105
ASTN2	1226.115652	1662.142546	9504.971545
WDR31	113.3661689	355.9955828	138.8965914
POLE3	278.4625313	386.6991645	77.7820912
GBGT1	47.3276239	17.4263572	53.33629111
SURF1	35.22055732	0.829826533	0
SURF6	1.100642416	0	0
RPL7A	1.100642416	1.659653067	2.222345463
GTF3C5	516.2012932	805.7615639	656.7030843
ASB6	148.5867262	174.263572	310.0171921
PTGES2	198.1156349	314.5042561	327.7959558
NTMT1	47.3276239	102.0686636	73.33740027
CIZ1	2636.038587	2197.38066	2023.445544
SLC25A25	200.3169198	289.6094601	526.6958747
SH3GLB2	1122.655265	623.1997266	3345.741094
MIGA2	128.7751627	105.3879697	405.578047
PTGES	28.61670282	7.4684388	4.444690926
LCN2	162.8950776	8.298265334	32.22400921
LRSAM1	318.0856583	148.5389495	497.8053837
HMCN2	202.5182046	2570.8026	296.6831193
GPR107	1166.680961	1410.705107	986.7213855
PAXX	25.31477557	49.789592	102.2278913
IDI2	6.603854498	0	10.00055458
INPP5E	155.1905807	229.0321232	398.9110106
LCN9	1.100642416	0.829826533	0
SEC16A	7345.687486	3794.796737	7764.875047
DPH7	191.5117804	312.0147765	540.0299475
NOTCH1	1944.83515	3135.91447	2415.689518
CACNA1B	37.42184215	741.0350943	307.7948466
NACC2	219.0278408	377.5710727	420.0232925
PROSER2	49.52890873	9.9579184	62.22567296
USP6NL	1142.466828	1722.719883	748.930421
COMMD3	23.11349074	17.4263572	21.1122819
MSRB2	199.2162773	157.6670413	215.5675099
PDSS1	110.0642416	146.8792964	50.00277291
FAM171A	926.7409145	576.7294407	962.2755854
MINDY3	1200.800876	726.9280432	568.9204385
SLC39A12	9.905781747	8.298265334	24.44580009
TMEM236	16.50963624	37.342194	66.67036389
RSU1	830.9850243	419.0623993	597.8109295
ST8SIA6	31.91863007	11.61757147	41.11339106
PARD3	2004.26984	2384.921457	3362.408685

ANKRD30	25.31477557	5.808785734	24.44580009
ZEB1	1729.109236	1116.116687	524.4735292
FAM13C	642.7751711	667.1805328	153.3418369
NRBF2	97.95717505	224.8829905	90.00499125
A1CF	5.503212081	0.829826533	20.00110917
CDHR1	23.11349074	241.4795212	205.5669553
LRIT1	4.402569665	0	16.66759097
RGR	0	8.298265334	25.55697282
POLR3A	919.0364176	1204.0783	1256.736359
HERC4	1369.199166	1614.012607	1331.184932
LRMDA	28.61670282	14.9368776	28.89049102
CAMK2G	617.4603955	385.869338	538.9187747
ADIRF	96.85653263	10.78774493	125.5625187
GLUD1	1365.897239	921.9372786	2420.134209
ANKRD1	12.10706658	3.319306133	10.00055458
HTR7	11.00642416	6.638612267	44.44690926
RPP30	192.6124229	211.605766	110.0061004
FRA10AC1	248.7451861	114.5160616	103.339064
ADD3	1713.700242	591.6663183	3267.959003
HABP2	2.201284833	180.0723577	11.11172731
VAX1	3.301927249	1.659653067	1.111172731
DNAJB12	510.6980812	436.4887566	756.7086301
EIF4EBP2	662.5867346	962.5987787	333.3518194
NPFFR1	6.603854498	8.298265334	7.77820912
PLEKHS1	605.353329	47.3001124	143.3412824
TCF7L2	2126.441148	1347.63829	1236.73525
MKI67	1654.265552	24766.17289	381.1322469
CYP17A1	4.402569665	4.149132667	23.33462736
INA	4.402569665	391.6781237	5.555863657
FUOM	7.704496914	9.128091867	15.55641824
LRRC27	148.5867262	145.2196433	271.1261465
MTG1	25.31477557	37.342194	45.55808199
NKX6-2	4.402569665	19.9158368	0
PAOX	7.704496914	11.61757147	33.33518194
GSTO1	121.0706658	181.7320108	155.5641824
TAF5	114.4668113	272.1831029	73.33740027
PPRC1	848.595303	632.3278184	508.917111
ITPRIP	71.54175706	62.23699	22.22345463
CNNM2	310.3811614	180.9021843	572.2539567
PDCD11	633.9700318	592.4961448	775.5985665
ADAM12	50.62955115	75.51421454	186.6770189
RGS10	570.1327716	112.8564085	486.6936564
BTBD10	440.2569665	590.8364918	358.9087923
ADM	71.54175706	29.04392867	124.4513459

GAS2	2.201284833	1.659653067	1.111172731
SLC5A12	8.80513933	3.319306133	20.00110917
LIN7C	565.730202	732.736829	418.9121198
LRRC4C	49.52890873	118.6651943	141.1189369
IMMP1L	48.42826632	53.93872467	28.89049102
PGAP2	126.5738779	116.1757147	207.7893008
TUT1	78.14561156	94.6002248	173.3429461
SCGB1A1	5.503212081	0.829826533	4.444690926
ZNF214	125.4732355	190.8601027	112.2284459
ZNF215	29.71734524	39.00184707	15.55641824
HSD17B12	380.822276	477.9800832	724.4846209
APIP	195.9143501	367.6131543	224.4568918
PAMR1	424.8479727	3.319306133	22.22345463
DGKZ	341.1991491	801.6124312	1063.392304
EIF3M	1173.284816	927.7460643	468.9148927
TNKS1BP1	2257.417596	1117.77634	2111.22819
GLYAT	7.704496914	0	5.555863657
SERPING1	8320.856667	726.0982167	2509.028028
OR5F1	5.503212081	0.829826533	1.111172731
SSRP1	1987.760204	5607.967712	1636.757433
SLC43A1	205.8201318	90.45109214	212.2339917
PTPRJ	1119.353337	1105.328942	353.3529286
CSTPP1	395.1306275	828.9967068	563.3645748
ARFGAP2	394.029985	438.9782362	747.8192483
CELF1	1009.289096	1691.186475	1217.845314
HIKESHI	230.034265	380.0605523	187.7881916
CCDC81	25.31477557	60.57733694	46.66925472
SESN3	1316.36833	1219.015178	1912.328271
ENDOD1	922.3383449	347.6973175	740.0410391
CCDC82	718.7194978	966.7479114	420.0232925
KLHL35	40.7237694	4.149132667	54.44746384
TENM4	290.5695979	354.3359297	588.9215477
SERPINH1	1507.88011	1841.385078	965.6091036
CAPN5	928.9421994	398.316736	3187.954566
INTS4	647.1777408	930.2355439	892.2717033
PAK1	440.2569665	1072.965708	923.3845398
RPS3	4027.250601	4188.96434	3666.870014
ZC3H12C	356.6081429	334.4200929	223.345719
TTC12	323.5888704	170.9442659	423.3568107
NCAM1	140.8822293	1743.465547	647.8137024
DRD2	7.704496914	1165.076453	14.44524551
HTR3B	2.201284833	1.659653067	13.33407278
NPAT	994.9807443	1543.477352	731.1516573
ATM	2924.4069	2550.886764	3207.955676

AASDHPP	179.4047139	289.6094601	148.897146
GLB1L2	325.7901552	413.2536136	248.9026918
SLX4IP	298.2740948	287.9498071	182.232328
LAMTOR1	606.4539714	490.4274812	853.3806577
P4HA3	81.44753881	23.23514293	115.5619641
GRIK4	23.11349074	19.08601027	63.33684569
ST14	938.8479811	1338.510198	1321.184378
HYOU1	1.100642416	0.829826533	0
GGTLC1	9.905781747	0	0
SCP2D1-A	0	0.829826533	0
ADAM33	159.5931504	117.0055412	515.5841474
SLC22A8	6.603854498	1.659653067	96.67202764
KAT14	595.4475472	258.0760519	298.9054648
TKFC	110.0642416	203.3075007	313.3507103
MTA2	957.5589022	1963.369578	902.2722579
TMEM138	110.0642416	112.8564085	140.0077642
FADS1	183.8072835	1695.335608	233.3462736
TMC2	13.207709	6.638612267	10.00055458
ROM1	11.00642416	16.59653067	32.22400921
EML3	391.8287002	263.8848376	1028.945949
INCENP	276.2612465	782.526421	365.5758286
ZP1	34.11991491	39.8316736	43.33573653
OOSP2	3.301927249	0	0
MS4A3	0	3.319306133	6.667036389
PLCH2	16.50963624	3.319306133	82.22678213
FRG1BP	92.45396297	113.6862351	61.11450023
CPSF7	1427.533214	1602.395036	1015.611877
MS4A2	114.4668113	5.808785734	15.55641824
B3GAT3	127.6745203	256.4163988	541.1411202
EI24	400.6338395	629.0085123	591.1438931
CCDC15	220.1284833	546.025859	125.5625187
CHEK1	39.62312699	417.4027463	8.889381852
FEZ1	74.84368431	43.98080627	72.22622754
ESAM	44.02569665	101.2388371	52.22511838
KIRREL3	4.402569665	2.4894796	17.7787637
MPZL2	408.3383364	63.89664307	423.3568107
SCN2B	4.402569665	0.829826533	4.444690926
SIDT2	1064.321217	182.5618373	950.0526854
TMEM25	152.9892959	72.1949084	122.2290005
TAGLN	2517.169206	191.6899292	1331.184932
JPH2	186.0085684	15.76670413	42.22456379
DUSP15	12.10706658	22.4053164	116.6731368
COMMD7	90.25267814	62.23699	45.55808199
C20orf144	3.301927249	4.9789592	6.667036389

KIAA1755	361.0107125	31.53340827	701.1499935
SPATA25	29.71734524	9.128091867	47.78042745
OCSTAMI	7.704496914	5.808785734	6.667036389
DSN1	101.2591023	477.9800832	121.1178277
SOGA1	1759.927224	1320.254015	2666.814555
CNBD2	35.22055732	43.15097974	75.55974574
SPINT4	2.201284833	0	3.333518194
CDH22	42.92505424	175.9232251	42.22456379
LSM14B	872.8094361	1335.190892	780.0432575
YTHDF1	1307.563191	1094.541198	1083.393413
CABLES2	99.05781747	204.1373272	108.8949277
LTO1	192.6124229	235.6707355	134.4519005
GPHA2	1.100642416	2.4894796	7.77820912
SLC22A9	6.603854498	4.9789592	23.33462736
TRPT1	125.4732355	138.5810311	328.9071285
NUDT22	90.25267814	112.8564085	271.1261465
FERMT3	135.3790172	63.89664307	105.5614095
PLCB3	468.8736693	493.7467874	1081.171068
MRPL49	192.6124229	356.8254093	358.9087923
CDC42EP2	0	0.829826533	0
FAU	519.5032205	702.8630738	1004.500149
TM7SF2	277.3618889	169.2846128	554.475193
VPS51	490.8865177	368.4429808	1257.847532
TBX6	37.42184215	19.9158368	37.77987287
PPP4C	268.5567496	484.6186955	734.4851755
ALDOA	26.41541799	34.02288787	10.00055458
TLCD3B	6.603854498	68.04577574	0
DOC2A	24.21413316	47.3001124	157.7865279
HIRIP3	147.4860838	367.6131543	105.5614095
TAOK2	4127.409061	1723.54971	2653.480483
TMEM219	204.7194894	372.5921135	852.269485
HMGA2	8.80513933	0.829826533	0
MMP3	9.905781747	4.9789592	12.22290005
CNKSR2	338.9978642	201.6478476	15.55641824
CNTN5	23.11349074	9.9579184	26.66814555
KLRF1	13.207709	8.298265334	2.222345463
CLEC1A	11.00642416	4.9789592	70.00388208
MKX	478.7794511	266.3743172	127.7848641
MPP7	967.4646839	516.9819303	582.2545113
ITGB1	10530.94664	18984.77143	5085.837592
FRMPD2B	6.603854498	60.57733694	36.66870014
FXYD4	0	0.829826533	6.667036389
TRIM48	3.301927249	0.829826533	8.889381852
PCDH15	42.92505424	16.59653067	74.44857301

PPIAP26	2.201284833	1.659653067	0
CTF1	8.80513933	0.829826533	1.111172731
CWC15	605.353329	873.8073396	676.7041934
FCGR1A	73.74304189	9.9579184	74.44857301
ARID5B	3692.655307	551.8346447	2566.80901
KLHL1	4.402569665	3.319306133	8.889381852
CDH8	12.10706658	4.9789592	11.11172731
DCUN1D2	101.2591023	166.7951332	105.5614095
TMCO3	758.3426248	882.9354315	1045.61354
TMEM218	49.52890873	44.8106328	42.22456379
TIRAP	101.2591023	44.8106328	70.00388208
EEF1AKM	126.5738779	108.7072759	77.7820912
LATS2	675.7944436	110.3669289	391.1328015
SAP18	394.029985	540.2170732	318.9065739
ADGRL3	85.85010847	221.5636844	130.0072096
KIAA1328	365.4132822	144.3898168	190.0105371
FAM124A	63.83726015	41.49132667	102.2278913
MIA2	1005.987168	468.8519914	714.4840663
HNMT	463.3704573	84.6423064	123.3401732
LYPD1	23.11349074	619.8804204	23.33462736
LYPD6B	17.61027866	32.3632348	78.89326393
PDCD4	3645.327683	2392.389896	1690.093725
ADRA2A	127.6745203	278.8217152	310.0171921
GPM6A	20.91220591	4.9789592	102.2278913
WDR17	107.8629568	744.3544004	434.468538
SPATA4	13.207709	21.57548987	13.33407278
VEGFC	121.0706658	79.6633472	155.5641824
CCDC102I	57.23340565	873.8073396	42.22456379
CD226	62.73661773	10.78774493	6.667036389
CNDP1	6.603854498	4.9789592	11.11172731
FSIP1	27.51606041	89.6212656	30.00166375
DLG2	325.7901552	196.6688884	301.1278102
CCDC83	16.50963624	4.149132667	5.555863657
RGS18	6.603854498	24.894796	6.667036389
PRSS23	992.7794595	424.8711851	1325.629069
MTMR12	1180.989313	805.7615639	900.0499125
PPP1R1C	15.40899383	2.4894796	0
POU2AF2	7.704496914	9.9579184	0
CCT5	1158.976464	5449.470845	1461.192142
ATPSCKM	181.6059987	474.6607771	376.687556
DOCK1	3606.805198	3158.319786	5671.425621
DIXDC1	402.8351244	215.7548987	283.3490465
DLAT	497.4903722	903.6810948	381.1322469
PIH1D2	35.22055732	43.15097974	22.22345463

NKAPD1	327.9914401	299.5673785	93.33850944
TIMM8B	35.22055732	79.6633472	63.33684569
IL18	235.5374771	35.68254093	76.67091847
TEX12	7.704496914	4.149132667	7.77820912
PTS	129.8758051	258.9058784	160.0088733
PIP4K2A	744.0342734	1069.646402	318.9065739
C2orf50	3.301927249	13.27722453	0
FREM2	506.2955115	6.638612267	71.11505481
FOXO1	71.54175706	97.0897044	87.78264578
CRIM1	1971.250568	194.1794088	2303.461072
SEC24D	2156.158494	712.8209922	933.3850944
ABCB9	90.25267814	106.2177963	134.4519005
RILPL2	286.1670282	79.6633472	50.00277291
DHX37	225.6316953	317.8235623	528.9182202
UBC	10756.57833	8933.912458	20451.13412
ITPR1	2365.280553	368.4429808	978.9431764
TKTL2	9.905781747	3.319306133	7.77820912
PRSS53	9.905781747	14.9368776	2.222345463
SLC7A11	59.43469048	1165.906279	1632.312742
NOCT	64.93790256	233.1812559	36.66870014
ENKUR	6.603854498	26.55444907	0
GPR158	51.73019357	28.21410213	50.00277291
LYZL2	2.201284833	4.149132667	13.33407278
CACNA2D	1.100642416	0	1.111172731
DCP1B	36.32119974	12.447398	205.5669553
CACNA1C	15.40899383	3.319306133	18.88993643
KCNA6	2.201284833	1.659653067	0
THRB	723.1220675	43.98080627	546.6969839
NGLY1	785.8586852	936.8741562	753.3751119
OXSM	173.9015018	218.2443783	165.564737
UEVLD	300.4753796	280.4813683	276.6820101
TMEM86A	37.42184215	22.4053164	61.11450023
NOPCHAP	117.7687385	291.2691132	100.0055458
TMEM263	595.4475472	422.3817055	286.6825647
ABTB3	278.4625313	792.4843394	150.0083187
UBE3B	1002.685241	850.5721967	1704.53897
ANK3	4841.725989	852.2318498	5459.19163
IPMK	165.0963624	709.501686	80.00443666
RAD9B	24.21413316	30.70358173	14.44524551
PLBD2	795.764467	988.3234012	1088.949277
DLG5	2.201284833	0	0
MAT1A	6.603854498	13.27722453	18.88993643
SLC2A13	325.7901552	274.6725825	158.8977006
GXYLT1	190.411138	303.7165112	95.5608549

TWF1	974.0685384	975.0461767	643.3690115
DIP2C	1406.621008	1359.255862	1831.212661
EIF4E	992.7794595	1024.835769	604.4779659
MAGI1	1491.370474	673.8191451	898.9387397
TEX30	27.51606041	149.368776	36.66870014
CSNK1G3	602.0514017	520.3012364	203.3446099
ENSG0000	1.100642416	0	0
SRFBP1	209.1220591	176.7530516	65.55919115
AKAP6	323.5888704	389.1886441	253.3473828
NPAS3	220.1284833	131.1125923	118.8954823
FAM177A	744.0342734	949.3215542	931.1627489
MBIP	304.8779493	4492.680852	208.9004735
MIPOL1	417.1434758	324.4621745	196.6775735
EXT2	923.4389873	1727.698842	1700.094279
TMEM18	139.7815869	238.9900416	114.4507913
ALLC	0	9.9579184	153.3418369
KCTD14	29.71734524	4.149132667	20.00110917
THRSP	1.100642416	0	0
NDUFC2	79.24625397	136.0915515	178.8988098
ME3	398.4325547	51.44924507	104.4502368
MSGN1	2.201284833	0	0
ADAMTS1	106.7623144	57.2580308	77.7820912
NUBPL	127.6745203	216.5847252	247.7915191
NEK7	607.5546138	725.2683902	471.1372381
FER	560.2269899	390.0184707	292.2384284
VIPAS39	647.1777408	450.5958076	404.4668742
ANKRD50	12081.7518	8903.208876	2991.276993
UPF2	2333.361923	1726.039189	1282.293332
CDC123	677.9957284	1329.382106	365.5758286
SCLT1	289.4689555	313.6744296	63.33684569
CCDC3	55.03212081	85.47213294	18.88993643
C4orf33	19.81156349	35.68254093	11.11172731
FRMD4A	956.4582598	796.633472	731.1516573
SLC25A31	2.201284833	0	20.00110917
PTPRO	68.23982981	46.47028587	52.22511838
EPS8	1018.094235	2554.20607	1248.95815
ACAD8	135.3790172	135.2617249	121.1178277
THYN1	278.4625313	558.473257	185.5658462
VPS26B	280.6638162	282.9708479	212.2339917
NCAPD3	948.7537628	2025.606568	283.3490465
VTI1A	318.0856583	363.4640216	291.1272556
QDPR	151.8886534	125.3038065	236.6797918
FHIP2A	632.8693894	583.368053	674.481848
ANO4	136.4796596	90.45109214	64.44801842

TEX9	219.0278408	273.0129295	190.0105371
QTRT2	327.9914401	378.4008992	180.0099825
DRD3	5.503212081	4.149132667	5.555863657
MMAA	209.1220591	381.7202053	84.44912759
ZNF827	1858.985041	1066.327095	4906.938782
POU4F2	6.603854498	7.4684388	8.889381852
EDNRA	433.653112	186.71097	91.11616398
NR3C2	613.0578259	97.91953094	671.1483298
AKR1C2	58.33404806	39.00184707	86.67147305
DPYSL4	13.207709	315.3340827	17.7787637
VENTX	12.10706658	3.319306133	15.55641824
ADAM8	99.05781747	75.51421454	434.468538
ITIH2	24.21413316	8.298265334	1472.303869
KIN	367.614567	378.4008992	230.0127554
PIGF	158.4925079	277.1620621	165.564737
ANKAR	489.7858753	338.5692256	342.2412013
INPP1	116.6680961	150.1986025	40.00221833
MFSD6	901.4261389	1721.890057	1423.412269
RNF144A	311.4818038	411.5939605	525.584702
ASAP2	691.2034374	778.3772883	976.7208309
ADAM17	1059.918647	2087.843558	900.0499125
FLI1	441.3576089	180.9021843	130.0072096
KCNJ1	0	7.4684388	0
TMEM45E	46.22698148	96.25987787	162.2312188
WWC2	624.06425	154.3477352	850.0471396
CENPU	92.45396297	882.105605	48.89160018
ACSL1	1730.209878	793.3141659	1264.514568
SLC25A4	297.1734524	681.2875839	291.1272556
AMN1	123.2719506	365.9535012	223.345719
BICD1	1077.528926	422.3817055	1258.958705
SAV1	1816.059987	788.3352067	1111.172731
CCDC122	308.1798766	175.9232251	47.78042745
SERP2	14.30835141	3.319306133	7.77820912
NBAS	2860.56964	3888.567135	4113.561452
ZNF385D	303.7773069	42.3211532	50.00277291
GUF1	726.4239948	391.6781237	394.4663197
SLC35F4	24.21413316	2.4894796	5.555863657
GABRA2	9.905781747	4.9789592	17.7787637
SACS	3748.78807	3180.725102	1045.61354
CCDC175	33.01927249	12.447398	8.889381852
CENPJ	528.3083598	1184.99229	333.3518194
FBXO4	63.83726015	51.44924507	86.67147305
TMEM267	175.0021442	464.7028587	256.680901
CCL28	67.13918739	349.3569705	0

PARP8	1534.295528	157.6670413	778.9320847
GFRA1	134.2783748	248.94796	226.6792372
CACUL1	997.1820292	1165.906279	566.698093
DST	21537.3708	13666.41318	13965.21889
BEND6	33.01927249	7.4684388	25.55697282
TIAL1	1882.098532	2781.57854	1698.983106
BAG3	587.7430503	658.052441	582.2545113
GLT1D1	13.207709	24.06496947	6.667036389
TMEM132	16.50963624	4.149132667	14.44524551
RBM46	14.30835141	6.638612267	12.22290005
SCHIP1	16.50963624	87.96161254	3.333518194
MCHR2	1.100642416	0	3.333518194
KCNE4	8.80513933	22.4053164	21.1122819
AP1S3	17.61027866	29.8737552	3.333518194
RABGAP1	1200.800876	1985.774894	2116.784053
CCDC74B	36.32119974	11.61757147	40.00221833
TLCD4	47.3276239	188.3706231	442.2467471
MZT2B	5.503212081	3.319306133	1.111172731
ASTN1	20.91220591	116.1757147	51.11394565
FAM168B	407.237694	550.1749916	301.1278102
PTPN14	2466.539655	435.65893	1093.393968
SMPD4BP	269.657392	246.4584804	471.1372381
MGAT5	580.0385534	1239.760841	532.2517384
TMEM163	8.80513933	50.61941854	36.66870014
GPATCH1	173.9015018	156.0073883	17.7787637
HSPB8	82.54818122	1.659653067	27.77931829
GEMIN6	66.03854498	139.4108576	37.77987287
TMEM178	77.04496914	22.4053164	357.7976195
POU4F1	8.80513933	304.5463377	15.55641824
OBI1	544.8179961	1042.262126	123.3401732
CYSLTR2	13.207709	17.4263572	14.44524551
GRID2	15.40899383	11.61757147	184.4546734
ARL11	3.301927249	10.78774493	14.44524551
RIT2	2.201284833	1.659653067	1.111172731
SETBP1	2522.672418	966.7479114	463.359029
ARL14EP	270.7580344	132.7722453	91.11616398
EPG5	1373.601736	1282.081994	1651.202679
PSTPIP2	157.3918655	33.19306133	58.89215477
ATP5F1A	1024.69809	1400.747188	1541.196579
HAUS1	70.44111464	273.842756	76.67091847
C18orf25	172.8008594	222.3935109	144.4524551
SPC25	0	100.4090105	0
PDK1	224.5310529	950.9812072	110.0061004
PTH	1.100642416	1.659653067	0

PDE3B	693.4047223	131.1125923	563.3645748
TGOLN2	169.4989321	233.1812559	331.129474
SH2D6	0	4.149132667	32.22400921
KCNK13	11.00642416	6.638612267	124.4513459
UHMK1	554.7237778	1094.541198	765.598012
ATG10	86.95075089	127.7932861	65.55919115
POC5	242.1413316	178.4127047	123.3401732
SPOCK1	695.6060071	226.5426436	958.9420672
FAM151B	27.51606041	6.638612267	25.55697282
TADA1	130.9764475	219.0742048	168.8982552
GUCY1A2	242.1413316	84.6423064	33.33518194
CWF19L2	538.2141416	330.2709603	946.7191672
JMY	862.9036544	489.5976547	504.4724201
HOMER1	274.0599617	271.3532764	157.7865279
XRCC4	52.83083598	191.6899292	51.11394565
BOLL	15.40899383	7.4684388	11.11172731
ZNF547	48.42826632	23.23514293	86.67147305
ZNF773	67.13918739	103.7283167	98.8943731
ZNF776	506.2955115	497.89592	368.9093468
ZNF256	428.1498999	632.3278184	267.7926283
SUV39H2	241.0406892	440.6378892	112.2284459
DCLRE1C	636.1713166	1230.632749	355.5752741
OLAH	0	0.829826533	48.89160018
RPP38	138.6809445	153.5179087	143.3412824
NMT2	451.2633907	441.4677158	581.1433385
ZSCAN1	4.402569665	15.76670413	43.33573653
ZNF837	16.50963624	14.9368776	41.11339106
USP12	359.9100701	755.9719719	93.33850944
CCDC50	563.5289171	432.3396239	1707.872488
CAMK4	264.1541799	81.32300027	0
TRIM36	564.6295596	908.660054	420.0232925
ZFP36L2	3323.940097	749.3333596	2476.804018
PAN3	881.6145755	767.5895434	947.8303399
PLEKHH2	608.6552562	551.0048182	261.1255919
PFKM	509.5974387	412.4237871	693.3717844
TMEM123	5866.424079	4195.602953	2004.555608
GRIA4	17.61027866	11.61757147	17.7787637
IGSF10	150.788011	48.12993894	691.149439
SPEF2	578.937911	181.7320108	564.4757476
SPARCL1	8652.150035	2443.839141	3797.988396
DSPP	3.301927249	1.659653067	1.111172731
DMP1	6.603854498	4.149132667	28.89049102
MEPE	5.503212081	7.4684388	1.111172731
MBNL1	2334.462565	1156.778188	822.2678213

CAPSL	12.10706658	34.8527144	23.33462736
NADK2	558.0257051	473.8309506	2316.795145
GPD1L	309.280519	175.0933985	247.7915191
GJA1	596.5481896	179.2425312	712.2617209
CCNO	20.91220591	10.78774493	97.78320037
DDX4	15.40899383	3.319306133	65.55919115
CLEC4F	46.22698148	41.49132667	94.44968217
SLC30A6	626.2655349	866.3389008	606.7003114
PELO	224.5310529	150.1986025	201.1222644
RASGRP3	149.6873686	151.0284291	83.33795486
SAR1B	427.0492575	284.6305009	275.5708374
CATSPER1	2.201284833	14.10705107	21.1122819
GPR180	216.826556	321.1428684	58.89215477
DYNLT5	9.905781747	3.319306133	13.33407278
DNAI4	580.0385534	205.7969803	348.9082377
ANKRD22	5.503212081	0	7.77820912
FARP1	1819.361914	1340.169851	1607.866942
IFIT5	253.1477557	162.6460005	107.7837549
SLC16A12	6.603854498	14.10705107	226.6792372
PANK1	133.1777324	140.2406841	117.7843095
PRDM8	111.164884	8.298265334	61.11450023
BMP3	72.64239948	340.2288787	188.8993643
HNRNPDL	3544.06858	3764.922982	2043.446653
HHEX	14.30835141	29.8737552	25.55697282
UTRN	17314.20585	4736.649852	29964.99505
GRM1	22.01284833	8.298265334	83.33795486
PTPRK	479.8800935	70.53525534	175.5652916
GGPS1	160.6937928	210.7759395	120.006655
CNTNAP4	4.402569665	0.829826533	0
ZNF117	1003.785884	920.2776255	1511.194915
PART1	35.22055732	0.829826533	1.111172731
RAB3C	6.603854498	92.94057174	0
LMNTD1	13.207709	9.128091867	50.00277291
MARVELI	8.80513933	1.659653067	0
RAD17	16.50963624	63.06681654	10.00055458
MED21	350.0042884	789.9948598	194.455228
PLOD2	436.9550393	2753.364438	372.242865
STK32B	19.81156349	20.74566333	16.66759097
NRSN1	1.100642416	14.10705107	0
JAKMIP1	5.503212081	4.149132667	3.333518194
ZIC1	6.603854498	49.789592	895.6052215
ADGRA3	1330.676681	1421.492852	1971.220426
CPB1	18.71092108	0.829826533	22.22345463
SREK1IP1	167.2976473	143.5599903	52.22511838

LGI2	33.01927249	249.7777865	54.44746384
CWC27	594.3469048	473.001124	136.674246
MR1	184.9079259	201.6478476	127.7848641
SRP19	68.23982981	39.00184707	12.22290005
CENPH	8.80513933	140.2406841	7.77820912
CDYL	361.0107125	780.0369414	422.2456379
CARHSP1	102.3597447	809.9106966	316.6842285
TEKT5	8.80513933	7.4684388	52.22511838
BANK1	890.4197148	24.894796	50.00277291
TXNDC11	1081.931495	684.60689	996.7219401
DAB2	2108.83087	731.0771759	872.2705942
ACMSD	0	0.829826533	11.11172731
ACOXL	221.2291257	34.02288787	218.9010281
BCL2L11	348.903646	948.4917276	300.0166375
ANAPC1	1169.982889	1343.489158	810.0449212
CAST	2424.715243	787.5053802	1132.285013
SCOC	172.8008594	629.8383388	252.23621
CLGN	208.0214167	404.1255217	95.5608549
CETN3	117.7687385	149.368776	65.55919115
SMARCA5	2975.036451	5807.12608	1787.876925
SYCP2L	17.61027866	9.128091867	28.89049102
BMP6	342.2997915	55.59837774	168.8982552
RGPD3	111.164884	86.30195947	116.6731368
RASSF3	304.8779493	156.8372148	224.4568918
HNRNPU	10820.41559	15757.57604	8156.007849
RANBP2	17707.13519	11333.77079	10413.91084
AHCTF1	3059.785917	4091.044809	1792.321616
MERTK	963.0621143	697.8841146	1357.853078
TMEM87B	934.4454114	597.475104	486.6936564
OR14K1	2.201284833	13.27722453	80.00443666
PTPRR	15.40899383	4.9789592	48.89160018
NR4A2	91.35332055	116.1757147	145.5636278
CCDC148	138.6809445	133.6020719	133.3407278
PLA2R1	744.0342734	92.1107452	792.2661575
RBMS1	858.5010847	581.7083999	356.6864468
SCN3A	73.74304189	5600.499274	170.0094279
FEZF2	2.201284833	8.298265334	11.11172731
CD96	255.3490406	11.61757147	16.66759097
SLC25A27	494.1884449	185.0513169	483.3601382
ADGRF1	152.9892959	17.4263572	30.00166375
ADGRF4	7.704496914	6.638612267	7.77820912
FRMD1	3.301927249	3.319306133	15.55641824
CYRIB	626.2655349	2808.962815	446.691438
ASAP1	2722.989338	5257.780915	1111.172731

TRAPPC8	1576.11994	1405.726148	992.2772492
FAM81B	6.603854498	43.98080627	92.22733671
LINC0046′	18.71092108	39.8316736	2.222345463
INO80C	36.32119974	73.02473494	23.33462736
LPCAT1	50.62955115	57.2580308	44.44690926
PLEKHG4	269.657392	697.054288	303.3501557
NMRAL1	29.71734524	19.08601027	7.77820912
UBALD1	462.2698148	583.368053	380.0210742
C16orf89	27.51606041	55.59837774	371.1316923
LYSET	2.201284833	2.4894796	0
ING1	227.8329802	438.1484096	233.3462736
TEX29	17.61027866	2.4894796	31.11283648
ADPRHL1	27.51606041	34.02288787	72.22622754
CMTM7	49.52890873	224.8829905	195.5664007
FBXL2	79.24625397	175.9232251	594.4774113
UBP1	1121.554622	1643.886363	1151.17495
RMND5A	695.6060071	1492.028107	737.8186937
CD8A	95.75589022	11.61757147	31.11283648
RPIA	136.4796596	240.6496947	198.8999189
PTPRD	231.1349074	199.158368	110.0061004
LURAP1L	73.74304189	137.7512045	171.1206006
CNKSR3	176.1027866	784.186074	60.0033275
GTF2E1	321.3875856	437.3185831	264.4591101
CFDP1	252.0471133	258.9058784	215.5675099
TGIF2LX	4.402569665	226.5426436	364.4646559
ZDHHC7	438.0556817	188.3706231	351.1305831
CIBAR2	7.704496914	4.149132667	2.222345463
C7orf31	239.9400468	113.6862351	148.897146
TMPRSS1	5.503212081	2.4894796	24.44580009
JAZF1	356.6081429	113.6862351	48.89160018
CMIP	666.9893043	612.4119816	491.1383473
SPHKAP	26.41541799	150.1986025	106.6725822
KCNJ16	8.80513933	3.319306133	6.667036389
PID1	220.1284833	68.87560227	66.67036389
TRIP12	8969.13505	8538.915028	7354.852309
FBXO36	61.63597531	93.77039827	91.11616398
CEBPG	147.4860838	461.3835526	106.6725822
KCTD15	107.8629568	291.2691132	295.5719466
ZNF599	64.93790256	73.85456147	147.7859733
MCOLN2	59.43469048	174.263572	93.33850944
LGI4	26.41541799	17.4263572	30.00166375
DDAH1	1085.233422	1315.275055	1795.655134
SREK1	1101.743059	899.5319622	516.6953201
CHD1	1997.665986	2090.333038	855.6030032

ANKFN1	175.0021442	137.7512045	22.22345463
DGKE	266.3554647	429.8501443	230.0127554
HS2ST1	160.6937928	281.3111948	232.2351009
MSI2	1397.815869	2184.103436	1797.877479
CACNA2D	836.4882364	4962.36267	347.7970649
ZUP1	213.5246288	250.6076131	146.6748005
HS3ST3A1	40.7237694	4.9789592	14.44524551
GDPD1	128.7751627	78.83352067	104.4502368
NUS1	134.2783748	136.0915515	77.7820912
SEMA3D	391.8287002	207.4566333	317.7954012
PPP2R5E	827.6830971	1383.320831	688.9270935
ASB17	11.00642416	1.659653067	0
GRAP	9.905781747	9.128091867	2.222345463
SLC5A10	0	2.4894796	20.00110917
AK5	80.34689639	61.40716347	113.3396186
CABYR	37.42184215	4.9789592	24.44580009
IMPACT	335.695937	281.3111948	178.8988098
ANKRD29	77.04496914	3.319306133	248.9026918
SDHAF4	20.91220591	53.10889814	33.33518194
CHST9	47.3276239	37.342194	1041.168849
THY1	452.3640331	332.7604399	38.8910456
DNAAF1	79.24625397	12.447398	73.33740027
C16orf74	18.71092108	5.808785734	23.33462736
TBCEL	71.54175706	97.91953094	43.33573653
JPH3	8.80513933	14.10705107	15.55641824
ANKH	934.4454114	728.5876963	2207.900217
OTULIN	264.1541799	427.3606647	160.0088733
UBASH3B	55.03212081	28.21410213	33.33518194
ROBO4	57.23340565	64.7264696	51.11394565
ROBO3	50.62955115	33.19306133	61.11450023
PANX3	2.201284833	1.659653067	22.22345463
TBRG1	245.4432588	125.3038065	295.5719466
NRGN	4.402569665	58.91768387	8.889381852
RETREG1	97.95717505	96.25987787	535.5852566
CDH12	16.50963624	123.6441535	13.33407278
GPR15	11.00642416	0.829826533	7.77820912
TOMM70	1123.755907	1555.094924	996.7219401
ABI3BP	2193.580336	500.3853996	951.1638581
ANGPT1	303.7773069	74.684388	121.1178277
PITPNC1	270.7580344	130.2827657	288.9049102
CC2D1B	266.3554647	158.4968679	452.2473017
CERS3	39.62312699	2.4894796	6.667036389
PRKCA	1136.963616	488.7678282	2144.563372
LRRK1	565.730202	92.1107452	325.5736103

CEP112	805.6702487	732.736829	374.4652105
GAL3ST2	0	0	6.667036389
ABCA9	337.8972218	141.0705107	1226.734696
ABCA6	355.5075005	306.2059908	558.9198839
ABCA10	136.4796596	63.89664307	211.122819
ABCA5	1122.655265	570.920655	1006.722495
ENPP3	104.5610295	7.4684388	6.667036389
C4orf19	14.30835141	1.659653067	8.889381852
UCHL1	41.82441182	983.344442	104.4502368
MIA3	8815.045112	2086.183905	7888.21522
DISP1	449.0621058	586.6873591	664.4812934
TNIK	1567.314801	1500.326372	1310.07265
FAM167A	1.100642416	13.27722453	2.222345463
NEIL2	1.100642416	9.128091867	0
PGM5	578.937911	17.4263572	266.6814555
WNT3A	7.704496914	38.17202053	123.3401732
OBSCN	1852.381187	1331.871586	6839.268162
LONRF1	29.71734524	14.9368776	30.00166375
TRIM11	184.9079259	228.2022967	206.678128
ENAH	2649.246296	3895.205748	2552.363764
PPP1R3A	13.207709	7.4684388	18.88993643
CCSAP	171.7002169	326.9516541	83.33795486
ASZ1	13.207709	1.659653067	2.222345463
SH3RF1	2980.539663	523.6205426	1522.306642
GBP5	279.5631737	20.74566333	16.66759097
BUB3	618.561038	1459.664872	797.8220212
GPR26	15.40899383	9.128091867	14.44524551
CFAP210	40.7237694	67.2159492	13.33407278
MMP21	28.61670282	10.78774493	43.33573653
C10orf90	13.207709	6.638612267	22.22345463
DIPK1A	129.8758051	200.8180211	206.678128
ATP5MC3	363.2119974	1078.774493	778.9320847
CNTNAP3	17.61027866	6.638612267	54.44746384
MAGED4	3.301927249	0	0
SRSF12	45.12633907	331.9306133	195.5664007
PDLIM3	2048.295537	166.7951332	132.229555
SORBS2	2652.548223	1232.292402	566.698093
ELOC	149.6873686	639.7962572	230.0127554
LY96	52.83083598	14.10705107	18.88993643
CEP170P1	60.5353329	43.98080627	33.33518194
PSMA8	0	2.4894796	2.222345463
TMSB4Y	16.50963624	0.829826533	0
CXADR	519.5032205	705.3525534	603.3667932
BTG3	91.35332055	707.0122064	315.5730557

C21orf91	479.8800935	999.1111462	296.6831193
CHODL	46.22698148	13.27722453	27.77931829
TMPRSS1:	8.80513933	97.0897044	73.33740027
NCAM2	47.3276239	73.85456147	107.7837549
L3MBTL4	156.2912231	618.2207674	94.44968217
PDE1C	29.71734524	22.4053164	12.22290005
RABGEF1	5.503212081	4.149132667	0
MRPL39	347.8030036	761.7807576	120.006655
JAM2	102.3597447	48.95976547	696.7053026
ATP5PF	758.3426248	1726.039189	271.1261465
GABPA	698.9079343	836.4651456	526.6958747
ADAMTS1	950.9550477	177.5828781	3361.297513
ADAMTS5	300.4753796	50.61941854	53.33629111
TSEN2	553.6231354	438.9782362	427.8015016
SLFN13	90.25267814	1256.357372	84.44912759
WNT7A	19.81156349	9.128091867	0
XPC	851.8972302	763.4404107	1025.612431
CCDC174	338.9978642	277.9918887	248.9026918
FGD5	238.8394043	113.6862351	346.6858922
FLCN	241.0406892	173.4337455	327.7959558
DPH3	130.9764475	169.2846128	105.5614095
OXNAD1	227.8329802	211.605766	152.2306642
PLCL2	6.603854498	14.10705107	4.444690926
CXXC1	316.9850159	406.6150013	616.7008659
PPP4R1	1155.674537	2145.931415	1145.619086
APCDD1	741.8329886	110.3669289	4259.12508
PIEZO2	997.1820292	136.0915515	117.7843095
CCDC144I	3.301927249	0	0
MPPE1	124.372593	219.0742048	173.3429461
CCDC144(	105.661672	269.6936233	24.44580009
USP43	263.0535375	287.1199805	307.7948466
RAB6B	138.6809445	419.0623993	298.9054648
EME1	11.00642416	92.94057174	14.44524551
EPHB1	27.51606041	682.1174104	113.3396186
ACSS1	1150.171325	214.0952456	715.595239
ANKRD40	799.0663942	828.1668803	517.8064929
ZNF18	233.3361923	222.3935109	264.4591101
CA10	1.100642416	27.3842756	116.6731368
VOPP1	123.2719506	124.47398	153.3418369
SEPTIN14	4.402569665	189.2004496	6.667036389
APOOL	383.0235609	500.3853996	474.4707563
DKK2	104.5610295	25.72462253	16.66759097
CYP2U1	301.5760221	47.3001124	241.1244827
RSPH10B	34.11991491	19.9158368	18.88993643

FBXL18	343.4004339	187.5407965	374.4652105
CNTNAP5	6.603854498	844.763411	94.44968217
UNC93B2	0	0	4.444690926
AK9	228.9336226	299.5673785	130.0072096
ODF1	0	0	12.22290005
KLF10	1438.539638	3979.848054	696.7053026
PTPRN2	540.4154264	616.5611143	213.3451644
AZIN1	1803.95292	4717.563842	2515.695064
ATP6V1C1	614.1584683	1497.836893	815.6007849
PIP4P2	188.2098532	173.4337455	217.7898554
OTUD6B	299.3747372	523.6205426	144.4524551
CDK19	642.7751711	551.0048182	1887.882471
GTF3C6	92.45396297	163.4758271	96.67202764
TTC39B	343.4004339	1825.618373	314.461883
MMS19	333.4946521	278.8217152	657.814257
PI4K2A	35.22055732	36.51236747	20.00110917
MARVELI	111.164884	20.74566333	117.7843095
ZFYVE27	130.9764475	107.8774493	241.1244827
GOLGA7B	7.704496914	160.1565209	1.111172731
GPR78	5.503212081	2.4894796	2.222345463
TRMT44	175.0021442	69.7054288	387.7992833
SLC25A28	269.657392	182.5618373	200.0110917
HSPA13	391.8287002	1897.813282	917.8286762
SAMSN1	209.1220591	103.7283167	46.66925472
USP25	1575.019298	1249.718759	1256.736359
GRAMD2I	179.4047139	101.2388371	441.1355744
ZCCHC10	133.1777324	150.1986025	93.33850944
C16orf87	203.618847	539.3872467	71.11505481
MOV10	845.2933757	655.5629614	2126.784608
RHOC	449.0621058	254.7567457	1247.846977
PPM1J	57.23340565	8.298265334	105.5614095
DBI	785.8586852	672.159492	175.5652916
SLC16A1	1.100642416	0	0
HEATR3	188.2098532	320.3130419	128.8960368
TRIM74	12.10706658	3.319306133	14.44524551
NIFK	150.788011	218.2443783	74.44857301
OXA1L	971.8672536	815.7194823	818.9343031
SLC7A7	92.45396297	80.49317374	103.339064
MAGEC1	6.603854498	0	128.8960368
LARP1	2350.972201	1808.192016	2019.000853
CNOT8	188.2098532	599.1347571	322.2400921
GRIA1	11.00642416	53.93872467	7.77820912
LRGUK	211.3233439	101.2388371	181.1211552
SETD9	18.71092108	24.06496947	10.00055458

MIER3	359.9100701	477.9800832	276.6820101
NUP205	1688.385467	3176.57597	1406.744678
ZKSCAN2	228.9336226	630.6681654	243.3468282
C9orf85	129.8758051	82.98265334	46.66925472
XAGE2	0	0	8.889381852
PIK3AP1	236.6381195	182.5618373	301.1278102
RBM45	173.9015018	131.9424188	237.7909645
TTN	5248.963683	1612.352954	5201.399556
VSIG4	244.3426164	250.6076131	651.1472206
PDIA4	2763.713107	3734.2194	2592.365982
KDM8	41.82441182	38.17202053	98.8943731
OTOA	3.301927249	0.829826533	0
KCTD18	498.5910146	408.2746544	332.2406467
HYCC2	463.3704573	516.9819303	367.7981741
FLACC1	35.22055732	29.04392867	24.44580009
C2CD6	193.7130653	18.25618373	76.67091847
TMEM237	323.5888704	558.473257	288.9049102
FZD7	272.9593192	33.19306133	665.5924661
SPAG17	473.276239	42.3211532	76.67091847
DEPTOR	587.7430503	238.9900416	391.1328015
FMN2	130.9764475	14.10705107	11.11172731
RNF20	1007.087811	1002.430452	846.7136214
CYLC2	5.503212081	1.659653067	3.333518194
PPARGC1I	227.8329802	94.6002248	61.11450023
ELMO1	450.1627483	126.9634596	296.6831193
SLC26A2	407.237694	291.2691132	2733.484919
LSM11	40.7237694	87.131786	57.78098203
MED7	337.8972218	694.5648084	145.5636278
SAXO1	18.71092108	14.9368776	40.00221833
RRAGA	528.3083598	644.7752164	601.1444477
SLC24A2	7.704496914	8.298265334	10.00055458
TRIM42	8.80513933	0.829826533	26.66814555
PXYLP1	431.4518272	205.7969803	242.2356555
ADCY8	16.50963624	14.10705107	57.78098203
RASA2	703.310504	467.1923383	248.9026918
RMND1	257.5503254	573.4101346	347.7970649
RAET1L	2.201284833	1.659653067	11.11172731
SLA	167.2976473	60.57733694	96.67202764
TMBIM4	92.45396297	38.17202053	10.00055458
VBP1	152.9892959	468.8519914	434.468538
RAB39B	22.01284833	125.3038065	125.5625187
CLIC2	44.02569665	28.21410213	92.22733671
AFF2	52.83083598	44.8106328	287.7937374
MICU3	118.869381	34.02288787	92.22733671

GRIP1	305.9785917	114.5160616	216.6786826
VPS37A	472.1755966	497.89592	321.1289194
KIF5A	8.80513933	162.6460005	12.22290005
NAT2	5.503212081	0.829826533	14.44524551
MAGEA8	0	0.829826533	0
PSD3	1139.164901	1963.369578	1558.975342
CARNMT1	312.5824462	347.6973175	284.4602192
MCU	380.822276	444.7870219	424.4679834
MIDEAS	1095.139204	676.3086247	1110.061559
CFAP70	567.9314868	275.5024091	712.2617209
GNA14	89.15203572	23.23514293	117.7843095
FAM161B	141.9828717	112.8564085	414.4674288
GNAQ	1004.886526	2584.909651	1563.420033
WIF1	2.201284833	24.06496947	10.00055458
UGT2B4	26.41541799	26.55444907	6.667036389
GPR61	1.100642416	0	0
MMP16	111.164884	77.1738676	26.66814555
ADK	346.7023611	503.7047058	322.2400921
KCNMA1	2570.000042	2469.563763	2431.245936
BATF	24.21413316	1.659653067	5.555863657
DCK	267.4561072	853.0616763	133.3407278
ADAMTS3	178.3040714	13.27722453	127.7848641
ALX3	0	2.4894796	72.22622754
DPY19L4	898.1242117	2335.131865	1577.865279
NDUFAF6	258.6509678	888.7442172	212.2339917
DRAM2	536.0128567	568.4311754	295.5719466
CFAP418	62.73661773	284.6305009	127.7848641
PPEF2	8.80513933	3.319306133	46.66925472
CFAP161	3.301927249	6.638612267	17.7787637
ADAMTSI	28.61670282	2.4894796	18.88993643
ART3	22.01284833	2.4894796	277.7931829
SLC28A1	1.100642416	5.808785734	16.66759097
WHAMM	302.6766645	84.6423064	110.0061004
CXCL13	8.80513933	1036.45334	44.44690926
N6AMT1	152.9892959	84.6423064	410.0227379
CCT8	2.201284833	2.4894796	0
NAA11	0	1.659653067	1.111172731
BACH1	1309.764475	1341.829504	2611.255919
CLDN17	1.100642416	0	25.55697282
CLDN8	864.0042968	25.72462253	18.88993643
TSPAN7	15.40899383	43.15097974	4.444690926
TIAM1	370.9164943	2294.470365	348.9082377
SCAF4	2563.396188	3662.024492	1848.991425
RPGR	748.4368431	990.8128808	437.8020562

CDK20	1739.015018	427.3606647	535.5852566
PCGF6	20.91220591	74.684388	13.33407278
ANKRD9	63.83726015	157.6670413	56.6698093
SFR1	7.704496914	54.7685512	26.66814555
SORCS3	14.30835141	4.9789592	16.66759097
SFXN2	177.203429	104.5581432	217.7898554
ATP5MJ	780.3554732	1044.751606	281.1267011
TDRD9	47.3276239	29.04392867	82.22678213
FGF18	19.81156349	12.447398	27.77931829
PCDH1	1034.603871	843.9335844	956.7197218
SH3RF2	75.94432672	3.319306133	5.555863657
GDF6	13.207709	8.298265334	63.33684569
UQCRB	2853.965785	5017.961047	716.7064118
MTERF3	388.526773	943.5127684	245.5691736
PTDSS1	983.9743202	1767.530516	834.4907213
PPP2R2B	66.03854498	16.59653067	15.55641824
RPL30	4722.856608	9530.557736	5123.617465
KCNS2	1.100642416	4.149132667	0
PABIR3	89.15203572	81.32300027	21.1122819
SUPV3L1	469.9743118	861.3599416	518.9176656
PABIR2	252.0471133	841.4441048	411.1339106
EEF1A1	17474.89964	10490.66703	13651.86818
FBXO43	35.22055732	320.3130419	54.44746384
HKDC1	12.10706658	4.9789592	16.66759097
HK1	2681.164926	2252.149212	1308.961478
TYSND1	147.4860838	54.7685512	232.2351009
PHF6	909.1306359	1390.78927	284.4602192
CD109	332.3940097	631.4979919	322.2400921
LRFN2	8.80513933	67.2159492	16.66759097
NODAL	0	2.4894796	40.00221833
PRG3	11.00642416	0	8.889381852
UBE2L6	574.5353413	209.1162864	344.4635467
ZDHHC5	1083.032138	1202.418647	1430.079305
MED19	161.7944352	200.8180211	160.0088733
ZFAND3	799.0663942	701.2034207	540.0299475
NPTN	1390.111372	770.9088495	2381.243163
SAMD8	412.7409061	1166.736106	845.6024486
RAB11FIP	970.7666112	1152.629055	1245.624632
UNC5D	97.95717505	16.59653067	238.9021373
GLYATL2	22.01284833	19.9158368	16.66759097
UTP14A	326.8907976	301.2270316	154.4530097
AIFM1	537.1134992	859.7002886	595.5885841
MAPK13	315.8843735	819.868615	192.2328825
BAG4	565.730202	786.6755536	356.6864468

MS4A1	37.42184215	1.659653067	5.555863657
TBC1D31	361.0107125	1604.054689	304.4613284
NTAQ1	169.4989321	804.1019108	280.0155283
ATAD2	872.8094361	10868.23811	577.8098203
FBXO32	682.3982981	2438.860182	1075.615204
NSMCE2	289.4689555	538.5574202	164.4535643
ZNF689	161.7944352	258.9058784	250.0138646
PRR14	560.2269899	437.3185831	526.6958747
FBRS	996.0813867	707.0122064	1268.959259
FRRS1	147.4860838	117.0055412	620.0343841
PHKG2	202.5182046	260.5655315	222.2345463
MFSD14A	16.50963624	9.128091867	11.11172731
SASS6	255.3490406	616.5611143	111.1172731
COX6A2	1.100642416	4.9789592	0
ITGAD	7.704496914	7.4684388	26.66814555
ADGRG4	19.81156349	12.447398	106.6725822
ZIC3	0	4.9789592	24.44580009
MALSU1	186.0085684	219.9040313	170.0094279
VPS8	1681.781612	1622.310873	4275.792671
GALK2	239.9400468	178.4127047	183.3435007
LHFPL4	4.402569665	161.816174	1.111172731
B3GNT7	47.3276239	235.6707355	96.67202764
MPV17L	12.10706658	3.319306133	3.333518194
BUB1B	96.85653263	936.0443296	42.22456379
PDE6D	172.8008594	429.8501443	291.1272556
EIF4A2	3832.436894	4751.58673	3553.530395
BRPF1	680.1970133	809.9106966	695.5941299
RPUSD3	148.5867262	132.7722453	211.122819
SST	0	239.8198681	25.55697282
TATDN2	14.30835141	44.8106328	1.111172731
GHRL	7.704496914	0.829826533	8.889381852
SEC13	974.0685384	991.6427074	1223.401177
CIBAR1P1	5.503212081	76.34404107	2.222345463
EXOG	180.5053563	185.8811435	73.33740027
NTAN1	2.201284833	9.128091867	0
SHCBP1L	14.30835141	4.9789592	17.7787637
NMNAT2	7.704496914	142.7301637	147.7859733
ZFYVE9	1165.580319	745.184227	1706.761315
ATP2B2	2.201284833	334.4200929	93.33850944
LYZL4	0	2.4894796	16.66759097
SLC6A1	14.30835141	47.3001124	1547.863615
SMG1	6635.773128	6233.656919	7290.404291
FCHO2	924.5396297	674.6489716	434.468538
RBPMS	1661.970049	112.8564085	268.903801

TMEM171	0	223.2233375	45.55808199
KLHL40	3.301927249	2.4894796	0
C8A	9.905781747	4.9789592	7.77820912
TIMP4	11.00642416	14.10705107	74.44857301
SYN2	34.11991491	304.5463377	114.4507913
NRG1	62.73661773	238.9900416	21.1122819
ODR4	454.5653179	441.4677158	360.019965
CPT2	499.691657	312.8446031	525.584702
NECAP2	0	9.128091867	4.444690926
LRP8	90.25267814	347.6973175	475.5819291
CDCP2	0	0.829826533	3.333518194
PAXIP1	923.4389873	711.9911656	395.5774924
STEAP2	5956.676757	16.59653067	3552.419222
SSBP3	469.9743118	338.5692256	326.684783
HTR5A	1.100642416	1.659653067	10.00055458
CLDN12	320.2869431	422.3817055	561.1422294
MMP14	1042.308368	458.0642464	525.584702
FZD1	282.865101	258.9058784	536.6964293
GATAD1	296.07281	114.5160616	200.0110917
SUSD3	17.61027866	9.128091867	0
ZFHX2-AS	84.74946605	27.3842756	67.78153662
TMED6	2.201284833	0.829826533	11.11172731
CLEC18A	7.704496914	0.829826533	41.11339106
DHRS4	37.42184215	4.9789592	11.11172731
CFAP107	5.503212081	5.808785734	7.77820912
CLEC18C	3.301927249	0	3.333518194
ARMC12	11.00642416	10.78774493	18.88993643
DDX19B	60.5353329	71.36508187	72.22622754
ST3GAL2	140.8822293	122.8143269	112.2284459
FCSK	86.95075089	53.93872467	373.3540378
IL34	13.207709	7.4684388	31.11283648
DHRS1	2.201284833	34.02288787	52.22511838
CACNA1D	3605.704556	365.1236747	3487.971204
ARSL	11.00642416	16.59653067	26.66814555
KIT	594.3469048	3781.519513	164.4535643
HYDIN	235.5374771	133.6020719	243.3468282
AASDH	741.8329886	700.3735942	750.0415937
ZNF19	99.05781747	150.1986025	93.33850944
CACNA2D	245.4432588	369.2728073	354.4641013
RNF111	1898.608168	786.6755536	575.5874749
CCNB2	50.62955115	504.5345323	4.444690926
FAM81A	51.73019357	68.87560227	32.22400921
MYO1E	1351.588887	819.868615	500.0277291
APPL1	2888.0857	1934.325649	758.9309756

PWWP3B	169.4989321	26.55444907	76.67091847
AFAP1L1	46.22698148	103.7283167	161.1200461
TSC22D3	365.4132822	175.0933985	561.1422294
VPS26C	286.1670282	854.7213294	254.4585555
DYRK1A	2659.152078	3335.902664	1413.411714
KCNJ6	8.80513933	60.57733694	91.11616398
KCNJ15	50.62955115	41.49132667	20.00110917
ERG	281.7644586	78.83352067	41.11339106
ETS2	631.768747	1814.830628	983.3878673
TSPAN18	55.03212081	78.00369414	112.2284459
LCA5L	130.9764475	89.6212656	27.77931829
SLC35B2	550.3212081	688.7560227	837.8242395
TMEM164	133.1777324	317.8235623	276.6820101
MX1	544.8179961	116.1757147	187.7881916
CREB3L1	2418.111389	33.19306133	584.4768567
C2CD2	643.8758135	254.7567457	547.8081566
TAB3	3661.837319	1722.719883	1827.879143
SLC38A10	823.2805274	1108.648249	4079.115097
C9orf43	46.22698148	60.57733694	40.00221833
PALM2AK	649.3790256	1457.175393	277.7931829
ZNF618	779.2548307	698.7139411	841.1577577
DGKI	31.91863007	28.21410213	65.55919115
TMEM268	223.4304105	95.43005134	158.8977006
SVOPL	16.50963624	3.319306133	37.77987287
SNX22	17.61027866	24.06496947	16.66759097
UBN2	2520.471133	1103.669289	1115.617422
BRAF	1657.567479	799.1229516	1145.619086
SLC34A2	52.83083598	0	11.11172731
ACAN	20.91220591	39.8316736	26.66814555
PSMG3	14.30835141	42.3211532	36.66870014
CABP1	8.80513933	3.319306133	0
WDR19	903.6274238	597.475104	1296.738578
SLC37A3	369.8158519	214.9250721	346.6858922
AP3S2	70.44111464	39.00184707	12.22290005
FMNL2	748.4368431	991.6427074	1040.057677
GAREM2	22.01284833	165.1354801	77.7820912
SPPL3	679.0963709	887.0845642	986.7213855
DPYSL5	18.71092108	688.7560227	40.00221833
DRC1	5.503212081	328.6113072	16.66759097
RAB28	176.1027866	266.3743172	233.3462736
PRXL2B	5.503212081	2.4894796	5.555863657
TNFRSF14	28.61670282	0.829826533	0
PANK4	94.6552478	34.02288787	25.55697282
CIB4	4.402569665	6.638612267	8.889381852

MEGF11	2.201284833	24.06496947	0
C12orf43	61.63597531	57.2580308	83.33795486
PEX10	111.164884	52.2790716	290.0160829
RER1	457.8672452	389.1886441	1043.391195
RADIL	34.11991491	93.77039827	263.3479374
SKI	646.0770984	348.527144	927.8292308
WIPI2	600.9507593	582.5382264	612.256175
LDLRAP1	424.8479727	197.4987149	324.4624376
AGAP1	1479.263408	2519.353355	1413.411714
KRTCAP3	51.73019357	8.298265334	38.8910456
ANKRD61	4.402569665	0.829826533	13.33407278
PAFAH2	194.8137077	94.6002248	247.7915191
EXTL1	1.100642416	3.319306133	24.44580009
SLC30A2	3.301927249	185.8811435	7.77820912
BABAM2	540.4154264	520.3012364	577.8098203
TRIM63	6.603854498	0.829826533	5.555863657
CFAP251	180.5053563	143.5599903	158.8977006
MRPL17	219.0278408	467.1923383	188.8993643
DUSP2	6.603854498	38.17202053	74.44857301
GRHL3	92.45396297	7.4684388	8.889381852
UBXN11	506.2955115	338.5692256	423.3568107
NLRP14	5.503212081	73.02473494	18.88993643
PTPDC1	325.7901552	520.3012364	268.903801
GALNT14	56.13276323	50.61941854	53.33629111
NCK1	353.3062156	433.999277	306.6836739
HPD	9.905781747	2.4894796	2.222345463
RHPN1	224.5310529	333.5902664	605.5891386
TPRG1L	232.2355498	248.1181335	548.9193293
LRRC43	14.30835141	14.9368776	50.00277291
PRXL2C	113.3661689	176.7530516	44.44690926
XDH	215.7259136	163.4758271	1334.51845
XKR8	26.41541799	48.12993894	136.674246
CNNM4	494.1884449	356.8254093	838.9354122
EYA3	1042.308368	1141.011483	1126.72915
DZIP1L	86.95075089	127.7932861	41.11339106
TMSB15A	6.603854498	258.9058784	4.444690926
FANCC	135.3790172	459.7238995	210.0116462
MRAS	144.1841565	120.3248473	112.2284459
WASF2	2006.471125	2301.108977	1430.079305
ABHD3	173.9015018	309.5252969	277.7931829
ESYT3	77.04496914	303.7165112	153.3418369
FAIM	233.3361923	355.9955828	66.67036389
TENT5B	22.01284833	7.4684388	1.111172731
CLSTN2	24.21413316	103.7283167	1114.50625

COLEC12	2498.458285	469.6818179	4115.783797
RNF207	184.9079259	82.98265334	75.55974574
CUL4B	2090.119949	3108.530194	1758.986434
GPR153	68.23982981	268.0339703	33.33518194
SLC13A3	211.3233439	75.51421454	320.0177467
GPRASP2	297.1734524	146.0494699	213.3451644
RHBDL2	40.7237694	9.128091867	6.667036389
AUTS2	4575.370525	1775.828781	1404.522333
SHROOM4	212.4239863	125.3038065	112.2284459
H2BC5	1599.233431	2834.687438	741.1522119
CDC25C	19.81156349	436.4887566	0
H4C8	441.3576089	2152.570028	507.8059383
MITD1	416.0428334	267.2041437	157.7865279
EIF5B	1971.250568	2582.420172	1015.611877
RIBC1	22.01284833	35.68254093	8.889381852
TMSB15B	1.100642416	9.128091867	0
CATIP	30.81798766	28.21410213	12.22290005
CNOT11	607.5546138	493.7467874	585.5880295
KCNB1	126.5738779	207.4566333	160.0088733
TSPAN33	52.83083598	24.894796	65.55919115
NRG2	52.83083598	11.61757147	22.22345463
AHCYL2	497.4903722	152.6880821	682.2600571
B4GALT5	548.1199233	1199.929167	831.1572031
CD1D	18.71092108	5.808785734	24.44580009
CD1A	5.503212081	2.4894796	10.00055458
SPATA2	367.614567	191.6899292	324.4624376
CD1C	66.03854498	4.9789592	36.66870014
SNX29P1	2.201284833	2.4894796	5.555863657
FAM86C1	0	0.829826533	0
CD1B	3.301927249	4.149132667	2.222345463
DNAH3	30.81798766	289.6094601	148.897146
CD1E	18.71092108	6.638612267	5.555863657
HMHB1	5.503212081	2.4894796	0
CPA2	1.100642416	23.23514293	4.444690926
NCF1	24.21413316	13.27722453	28.89049102
CPA5	2.201284833	7.4684388	3.333518194
TSR2	499.691657	512.0029711	415.5786016
PPP1R9A	868.4068665	325.2920011	451.136129
ZC3H18	693.4047223	892.0635234	412.2450834
ZFAND2B	132.07709	117.8353677	143.3412824
POM121L2	4.402569665	1.659653067	25.55697282
GDPD5	89.15203572	139.4108576	295.5719466
DYNC1I1	83.64882364	61.40716347	134.4519005
PFKFB1	17.61027866	28.21410213	45.55808199

ALAS2	3.301927249	79.6633472	5.555863657
TMED4	632.8693894	636.4769511	721.1511027
PPP1R15B	1586.025722	2023.946915	1410.078196
COPG2	452.3640331	738.5456147	728.9293118
EMSY	2229.901535	2552.546417	1023.390086
PAGE5	2.201284833	1.659653067	0
GPAT4	802.3683215	1267.145116	536.6964293
PKD1L1	52.83083598	34.8527144	110.0061004
ZSCAN12	190.411138	53.93872467	110.0061004
TAGLN2	540.4154264	1282.081994	371.1316923
ELK4	5758.561122	2368.324926	3464.636577
SLAMF8	82.54818122	25.72462253	8.889381852
SLC45A3	2454.432588	24.06496947	876.7152851
DUSP23	100.1584599	193.3495823	87.78264578
RNF166	158.4925079	67.2159492	115.5619641
NBL1	301.5760221	304.5463377	586.6992022
HTR6	7.704496914	15.76670413	0
ITLN2	6.603854498	3.319306133	35.55752741
F11R	42.92505424	130.2827657	16.66759097
USF1	420.445403	217.4145517	291.1272556
PLA2G2F	2.201284833	3.319306133	28.89049102
SPATA2L	27.51606041	55.59837774	100.0055458
NIT1	344.5010763	308.6954704	515.5841474
DEDD	346.7023611	366.7833277	454.4696472
ZNF276	283.9657434	116.1757147	312.2395375
NPM2	18.71092108	28.21410213	17.7787637
EDA	29.71734524	66.38612267	71.11505481
FGF17	14.30835141	4.9789592	8.889381852
VWA5B1	4.402569665	11.61757147	30.00166375
CDA	0	11.61757147	0
PINK1	472.1755966	409.9343075	1332.296105
B4GALT3	327.9914401	400.8062156	832.2683758
DMTN	260.8522527	179.2425312	248.9026918
ADAMTS4	22.01284833	76.34404107	71.11505481
FHIP2B	409.4389789	160.1565209	610.0338296
NDUFS2	703.310504	955.1303399	914.495158
SLC5A11	0	0.829826533	0
FCER1G	154.0899383	104.5581432	107.7837549
APOA2	3.301927249	0	2.222345463
TOMM40L	123.2719506	100.4090105	126.6736914
MPZ	19.81156349	2.4894796	17.7787637
WFDC8	4.402569665	1.659653067	11.11172731
CCAR2	621.8629652	723.6087371	812.2672667
CACHD1	1174.385458	248.1181335	748.930421

CDC42SE2	187.1092108	249.7777865	117.7843095
RAPGEF6	81.44753881	71.36508187	23.33462736
EPB41	1244.826573	2272.894875	1162.286677
MIS18A	79.24625397	291.2691132	95.5608549
ALG8	410.5396213	501.2152262	423.3568107
FBXW5	826.5824546	653.0734818	1710.094834
CFAP298	73.74304189	177.5828781	40.00221833
SYNJ1	932.2441266	916.9583194	1215.622968
PAXBP1	1144.668113	2390.730243	1228.957041
IFNAR2	80.34689639	144.3898168	94.44968217
MRPL10	157.3918655	224.053164	181.1211552
IFNGR2	89.15203572	46.47028587	64.44801842
GART	769.349049	2229.743895	1480.082078
SON	10223.8674	10400.21594	16967.60761
DONSON	95.75589022	901.1916152	297.794292
SV2A	93.55460539	22.4053164	76.67091847
LAD1	210.2227015	102.8984901	167.7870824
STC1	49.52890873	120.3248473	51.11394565
TNNI1	1.100642416	7.4684388	3.333518194
CSRP1	1460.552486	1160.92732	606.7003114
PRAC1	222.3297681	3.319306133	312.2395375
HOXB13	1073.126356	4.149132667	5472.525702
C1QC	1372.501093	692.9051554	1088.949277
KCNE2	3.301927249	9.9579184	13.33407278
ATP5MC1	169.4989321	406.6150013	360.019965
RCAN1	46.22698148	194.1794088	52.22511838
UBE2Z	1026.899374	1234.781882	1158.953159
CIART	130.9764475	29.04392867	21.1122819
SNF8	249.8458285	476.3204302	398.9110106
CLIC6	68.23982981	39.8316736	221.1233736
CCDC24	83.64882364	65.55629614	225.5680645
RUNX1	1931.627441	1221.504657	961.1644127
IGF2BP1	4.402569665	11.61757147	14.44524551
GIP	2.201284833	1.659653067	0
CBR1	183.8072835	165.1354801	127.7848641
CBR3	99.05781747	31.53340827	27.77931829
ENSG0000	2.201284833	0.829826533	0
GJD2	3.301927249	0.829826533	20.00110917
ACTC1	33.01927249	0.829826533	5.555863657
MORC3	1332.877966	1119.435994	831.1572031
CHAF1B	170.5995745	1261.336331	90.00499125
CLDN14	8.80513933	0	0
SIM2	3079.597481	9.9579184	1893.438334
HLCS	611.9571835	602.4540632	671.1483298

GOLGA6A	7.704496914	4.149132667	24.44580009
SCUBE1	48.42826632	52.2790716	354.4641013
ARHGAP2	8.80513933	5.808785734	3.333518194
ADPGK	374.2184215	250.6076131	336.6853376
PTMS	890.4197148	1256.357372	232.2351009
PLA2G4D	3.301927249	14.9368776	13.33407278
PADI4	0	5.808785734	0
ADIPOR1	614.1584683	1267.974943	950.0526854
CYB5R1	335.695937	227.3724701	406.6892197
PSMD4	416.0428334	741.8649208	658.9254297
ATP13A2	1.100642416	0	6.667036389
M1AP	17.61027866	4.149132667	14.44524551
PSMB4	702.2098616	1292.869739	2119.006399
IRX6	1.100642416	4.149132667	0
BTG2	493.0878025	670.499839	427.8015016
CES5A	1.100642416	0	0
HK2	151.8886534	666.3507063	354.4641013
C1R	124.372593	15.76670413	55.55863657
CELF3	6.603854498	234.0110824	27.77931829
ALDH4A1	307.0792341	102.0686636	472.2484109
STARD9	1018.094235	1044.751606	647.8137024
THEM4	108.9635992	91.28091867	62.22567296
TCHH	9.905781747	14.9368776	38.8910456
LCE2B	0	0	2.222345463
UBR1	1592.629576	972.5566971	1301.183269
AMFR	717.6188554	533.578461	1130.062668
MED8	335.695937	152.6880821	363.3534832
TGM7	4.402569665	1.659653067	51.11394565
RGL4	4.402569665	1.659653067	4.444690926
SPRR2G	1.100642416	0	0
PGLYRP3	4.402569665	0	24.44580009
ISL2	26.41541799	2.4894796	1.111172731
RSPRY1	627.3661773	620.710247	361.1311377
CCDC17	57.23340565	36.51236747	228.9015827
GPBP1L1	1302.059978	1099.520157	2077.893008
NAE1	283.9657434	631.4979919	316.6842285
TMEM69	315.8843735	355.1657563	198.8999189
ADGRG5	15.40899383	0.829826533	26.66814555
DRC7	4.402569665	23.23514293	27.77931829
ACE	71.54175706	226.5426436	88.89381852
TEPP	5.503212081	0	2.222345463
UROC1	1.100642416	19.9158368	37.77987287
EFCAB14	1217.310512	574.2399611	1254.514014
SPON2	897.0235693	31.53340827	1008.94484

CHCHD6	73.74304189	121.1546739	176.6764643
CTBP1	839.7901636	795.8036455	2535.696173
LRRC36	11.00642416	1.659653067	0
ANKRD18	11.00642416	30.70358173	17.7787637
TPPP3	16.50963624	55.59837774	35.55752741
ZDHHC1	72.64239948	28.21410213	155.5641824
ATP6V0D	458.9678876	1223.994137	704.4835117
AGRP	0	61.40716347	5.555863657
ZFYVE28	128.7751627	88.79143907	347.7970649
CARMIL2	39.62312699	10.78774493	5.555863657
C16orf86	12.10706658	2.4894796	8.889381852
PIP	137.580302	2.4894796	0
FAM131B	9.905781747	4.149132667	26.66814555
RGS12	512.899366	813.2300027	1430.079305
PSKH1	222.3297681	101.2388371	406.6892197
ZYX	129.8758051	10.78774493	105.5614095
ABR	13.207709	78.83352067	23.33462736
LYPD5	6.603854498	61.40716347	3.333518194
CCDC117	348.903646	243.9690008	178.8988098
ZNF230	145.284799	181.7320108	84.44912759
CCDC107	144.1841565	136.921378	64.44801842
ZNF222	75.94432672	167.6249597	160.0088733
NPR2	241.0406892	119.4950208	95.5608549
ZNF221	225.6316953	302.8866847	233.3462736
ZNF233	38.52248457	154.3477352	180.0099825
ZNF235	495.2890873	548.5153386	411.1339106
GNE	514.0000084	312.0147765	417.800947
TNFRSF13	8.80513933	69.7054288	1.111172731
OR3A3	2.201284833	2.4894796	1.111172731
ARHGAP3	4449.897289	5617.095804	4878.048291
PTGIR	6.603854498	7.4684388	5.555863657
CALM3	1661.970049	1745.1252	1733.429461
DFFA	352.2055732	761.7807576	465.5813745
CCDC28B	8.80513933	29.8737552	23.33462736
IQCC	59.43469048	147.7091229	43.33573653
TMEM234	141.9828717	113.6862351	277.7931829
BSDC1	333.4946521	487.1081751	966.7202764
ZBTB8A	14.30835141	30.70358173	6.667036389
ATAD3B	149.6873686	229.8619497	596.6997568
SSU72	435.8543969	553.4942978	957.8308945
UBE2J2	195.9143501	250.6076131	351.1305831
ZNF362	899.2248541	518.6415834	915.6063307
FNDC5	20.91220591	4.9789592	44.44690926
CPAMD8	834.2869516	51.44924507	2705.705601

NR2F6	163.99572	168.4547863	241.1244827
ANKLE1	9.905781747	36.51236747	43.33573653
MIX23	77.04496914	95.43005134	28.89049102
VMA21	220.1284833	583.368053	155.5641824
KALRN	1543.100668	5722.483774	2447.913527
CILP2	34.11991491	47.3001124	88.89381852
FAM86C2	2.201284833	2.4894796	4.444690926
ABCG1	347.8030036	163.4758271	924.4957126
TFF3	572.3340565	1600.735383	68.89270935
TFF2	6.603854498	0.829826533	0
TFF1	9.905781747	0	134.4519005
TMPRSS3	20.91220591	19.08601027	35.55752741
UBASH3A	48.42826632	5.808785734	23.33462736
RSPH1	243.241974	96.25987787	130.0072096
SLC37A1	462.2698148	197.4987149	1052.280577
PDE9A	1547.503237	342.7183583	500.0277291
WDR4	118.869381	181.7320108	164.4535643
NDUFV3	418.2441182	546.025859	180.0099825
PKNOX1	236.6381195	375.9114196	282.2378738
CBS	134.2783748	194.1794088	21.1122819
U2AF1	212.4239863	230.6917763	22.22345463
HSF2BP	33.01927249	60.57733694	27.77931829
RRP1B	469.9743118	704.5227268	272.2373192
PDXK	628.4668197	539.3872467	754.4862846
G6PD	302.6766645	642.2857368	1062.281131
CSTB	1051.113508	1943.453741	758.9309756
RRP1	119.9700234	213.2654191	103.339064
AGPAT3	343.4004339	427.3606647	407.8003924
TRAPPC10	1097.340489	2110.248874	1001.166631
GAB3	78.14561156	29.04392867	71.11505481
GATD3	171.7002169	213.2654191	244.4580009
ICOSLG	26.41541799	3.319306133	8.889381852
AIRE	3.301927249	4.9789592	8.889381852
CFAP410	63.83726015	102.8984901	70.00388208
ZNF66	63.83726015	118.6651943	65.55919115
LRRC3	36.32119974	146.0494699	92.22733671
ITGB2	845.2933757	365.9535012	682.2600571
SLX9	39.62312699	87.96161254	71.11505481
RALGDS	33.01927249	71.36508187	60.0033275
FTCD	4.402569665	1.659653067	21.1122819
SPATC1L	2.201284833	0	0
LSS	92.45396297	225.7128171	523.3623565
VAV2	882.7152179	1688.696995	937.8297853
MCM3AP	2062.603888	2930.947316	2623.478819

C21orf58	37.42184215	355.9955828	37.77987287
PCNT	1791.845854	4812.993894	1533.418369
DIP2A	1636.655273	1019.026983	2021.223198
S100B	11.00642416	8.298265334	0
PRMT2	693.4047223	782.526421	548.9193293
CLDND2	15.40899383	9.128091867	18.88993643
ZNF208	181.6059987	41.49132667	61.11450023
ZNF761	871.7087937	1071.306055	703.372339
FCN2	6.603854498	0.829826533	10.00055458
PIERCE1	52.83083598	130.2827657	65.55919115
LCN1	2.201284833	0	1.111172731
ZNF714	461.1691724	585.8575326	152.2306642
GPSM1	155.1905807	277.9918887	308.9060193
C19orf47	159.5931504	288.7796336	268.903801
HIPK4	4.402569665	2.4894796	14.44524551
CFAP157	19.81156349	13.27722453	32.22400921
TOR2A	61.63597531	59.7475104	71.11505481
ST6GALN	3.301927249	4.149132667	2.222345463
SHKBP1	201.4175622	407.4448279	586.6992022
ZER1	692.3040799	514.4924507	1681.204343
ZDHHC12	140.8822293	291.2691132	396.6886651
PKN3	39.62312699	98.74935747	71.11505481
SPTBN4	129.8758051	151.8582556	305.5725011
BRSK1	110.0642416	224.8829905	127.7848641
COX6B2	3.301927249	0	1.111172731
TMEM190	8.80513933	1.659653067	0
NLRP4	5.503212081	7.4684388	10.00055458
PLPP7	6.603854498	2.4894796	11.11172731
TAOK1	2719.687411	3821.351186	1683.426688
MED27	205.8201318	415.7430932	238.9021373
DEDD2	48.42826632	107.0476228	180.0099825
SIK3	1119.353337	732.736829	953.3862036
MPZL3	83.64882364	90.45109214	73.33740027
JAML	266.3554647	34.02288787	24.44580009
NEK8	71.54175706	74.684388	300.0166375
TLCD1	44.02569665	51.44924507	111.1172731
PCSK7	325.7901552	218.2443783	337.7965104
SAFB	1627.850134	1974.987149	1183.398959
CD3G	42.92505424	0	14.44524551
S100A1	0	22.4053164	7.77820912
CHTOP	390.7280578	549.3451651	277.7931829
CXCR5	5.503212081	0.829826533	26.66814555
ZBTB7B	1158.976464	532.7486344	801.1555394
FLAD1	183.8072835	269.6936233	394.4663197

SHC1	394.029985	367.6131543	710.0393754
NLRX1	111.164884	62.23699	237.7909645
ADAR	5963.280612	4886.018628	9172.730898
IL6R	169.4989321	112.8564085	91.11616398
UBE2Q1	616.3597531	948.4917276	630.0349387
CHRNB2	6.603854498	201.6478476	31.11283648
CRTC2	736.3297765	691.2455023	865.6035578
ANO10	669.1905891	418.2325728	531.1405656
FDPS	183.8072835	443.9571954	411.1339106
RUSC1	106.7623144	228.2022967	350.0194104
PAQR6	41.82441182	68.04577574	88.89381852
PMF1	41.82441182	42.3211532	54.44746384
SLC25A44	168.3982897	215.7548987	185.5658462
LMNA	928.9421994	520.3012364	821.1566485
CCR5	107.8629568	8.298265334	31.11283648
NBEAL2	1971.250568	444.7870219	3063.503221
CCDC12	141.9828717	97.91953094	60.0033275
PTH1R	29.71734524	57.2580308	202.2334371
UBQLN4	538.2141416	832.316013	805.6002303
MYL3	12.10706658	1.659653067	3.333518194
PPP1R35	55.03212081	48.12993894	47.78042745
GPATCH4	8.80513933	1.659653067	12.22290005
LRRC71	0	19.9158368	45.55808199
FCRL3	37.42184215	2.4894796	31.11283648
AZGP1	3713.567513	19.08601027	83.33795486
FGFR4	24.21413316	114.5160616	250.0138646
CYP3A4	20.91220591	5.808785734	2.222345463
CYP3A7	3.301927249	0	0
NACC1	467.7730269	620.710247	867.8259033
CYP11B1	4.402569665	6.638612267	32.22400921
HK3	25.31477557	35.68254093	65.55919115
LY6K	156.2912231	9.128091867	10.00055458
IER2	125.4732355	158.4968679	430.0238471
ZNF394	819.9786001	280.4813683	313.3507103
CPSF4	158.4925079	141.9003372	83.33795486
LY6E	6.603854498	25.72462253	15.55641824
VPS28	18.71092108	9.9579184	54.44746384
TONSL	42.92505424	613.2418082	83.33795486
PTGER1	15.40899383	2.4894796	1.111172731
PWWP3A	604.2526865	586.6873591	747.8192483
RECQL4	62.73661773	822.3580946	144.4524551
LRRC14	209.1220591	264.7146641	696.7053026
ZNF333	380.822276	324.4621745	383.3545923
COL26A1	79.24625397	2.4894796	12.22290005

PPP1R16A	179.4047139	375.9114196	582.2545113
FOXH1	18.71092108	9.128091867	6.667036389
ORAI2	77.04496914	71.36508187	64.44801842
ALKBH4	42.92505424	42.3211532	42.22456379
CCDC105	8.80513933	0.829826533	6.667036389
SH2B2	51.73019357	77.1738676	41.11339106
MRNIP	56.13276323	12.447398	30.00166375
SQSTM1	92.45396297	51.44924507	255.5697282
MGAT4B	0	0	1.111172731
RPL8	4991.413358	8533.936069	8387.131777
MAML1	30.81798766	29.8737552	24.44580009
PGLYRP2	1.100642416	3.319306133	15.55641824
LRWD1	122.1713082	87.96161254	150.0083187
FBXL13	79.24625397	97.0897044	138.8965914
NAPEPLD	3.301927249	7.4684388	1.111172731
SCGB3A1	14.30835141	1.659653067	0
PSMC2	1020.29552	916.9583194	752.2639392
CELF5	47.3276239	29.04392867	3.333518194
MFSD12	449.0621058	244.7988273	608.9226568
POM121L1	2.201284833	0	0
PRODHLP	6.603854498	0	1.111172731
USP41	0	0	1.111172731
YDJC	106.7623144	101.2388371	138.8965914
CCDC116	6.603854498	3.319306133	24.44580009
DVL3	1387.910087	1413.194586	2015.667335
AP2M1	1939.331938	2006.520558	1905.661234
ABCF3	457.8672452	383.3798584	774.4873938
PCYT1A	385.2248457	243.9690008	284.4602192
FBXO27	130.9764475	213.2654191	126.6736914
DMKN	171.7002169	446.446675	137.7854187
U2AF1L4	80.34689639	92.1107452	137.7854187
BDH1	8.80513933	3.319306133	2.222345463
NPHS1	9.905781747	16.59653067	53.33629111
THAP8	40.7237694	95.43005134	131.1183823
COX7A1	20.91220591	9.128091867	7.77820912
ZNF382	187.1092108	322.8025215	111.1172731
LRRC56	0	0.829826533	0
PLXDC1	263.0535375	118.6651943	232.2351009
PGAP3	255.3490406	169.2846128	841.1577577
IKZF3	387.4261305	16.59653067	115.5619641
GRIN2C	12.10706658	58.08785734	36.66870014
FDXR	33.01927249	266.3743172	140.0077642
SAP30BP	534.9122143	544.3662059	354.4641013
ACOX1	1134.762331	1160.097494	1442.302205

PRPSAP1	264.1541799	536.0679406	496.694211
CYGB	73.74304189	58.91768387	23.33462736
SRSF2	1282.248415	2087.843558	2839.046329
ZNF577	1092.937919	292.0989397	443.3579198
TMEM143	47.3276239	43.15097974	83.33795486
KLHL10	13.207709	1.659653067	4.444690926
KASH5	5.503212081	4.149132667	42.22456379
HCRT	2.201284833	0	0
ALDH16A	89.15203572	117.0055412	218.9010281
DCD	5.503212081	0	13.33407278
ITGA5	497.4903722	231.5216028	912.2728125
SIGLEC11	1.100642416	6.638612267	28.89049102
ZNF385A	322.488228	195.0092353	155.5641824
SIGLEC16	3.301927249	1.659653067	33.33518194
MPP3	70.44111464	132.7722453	192.2328825
CD300LG	0	0	5.555863657
IZUMO2	1.100642416	4.149132667	15.55641824
NAGS	22.01284833	25.72462253	61.11450023
LSM12	156.2912231	326.9516541	128.8960368
ASB16	2.201284833	4.9789592	27.77931829
EMC10	588.8436927	1063.837616	2714.594983
JOSD2	24.21413316	35.68254093	107.7837549
SHANK1	27.51606041	146.8792964	65.55919115
FAM171A1	60.5353329	139.4108576	220.0122008
DBF4B	126.5738779	326.1218276	162.2312188
PLCD3	176.1027866	110.3669289	422.2456379
FMNL3	584.4411231	407.4448279	475.5819291
AQP5	3.301927249	0	0
RACGAP1	159.5931504	1262.166157	35.55752741
OR7G1	0	1.659653067	7.77820912
LARP4	1272.342633	714.4806452	605.5891386
TAMALIN	27.51606041	27.3842756	92.22733671
RAVER1	342.2997915	601.6242367	727.8181391
KRT84	2.201284833	0	8.889381852
KRT82	0	1.659653067	6.667036389
SYCE2	2.201284833	26.55444907	16.66759097
SPC24	12.10706658	214.0952456	14.44524551
IP6K3	4.402569665	302.0568581	3.333518194
LEMD2	307.0792341	377.5710727	523.3623565
ALOX15	12.10706658	12.447398	43.33573653
TREML1	11.00642416	9.9579184	52.22511838
ADCY10P	0	6.638612267	1.111172731
ZNF653	134.2783748	161.816174	182.232328
MED11	97.95717505	130.2827657	153.3418369

CXCL16	359.9100701	167.6249597	358.9087923
SCIMP	38.52248457	12.447398	5.555863657
RNASEK-C	0	0.829826533	0
BCL6B	25.31477557	62.23699	24.44580009
ASGR2	2.201284833	82.98265334	6.667036389
TNFSF13	27.51606041	19.9158368	47.78042745
SENP3	63.83726015	131.9424188	168.8982552
EIF4A1	34.11991491	72.1949084	91.11616398
RPL26	121.0706658	117.8353677	27.77931829
CCDC42	0	0	7.77820912
POLR3K	84.74946605	261.395358	137.7854187
SNRNP25	93.55460539	374.2517665	90.00499125
PRR35	3.301927249	4.149132667	5.555863657
WDR90	249.8458285	776.7176352	1498.972015
JMJD8	704.4111464	502.0450527	1614.533979
CCDC78	5.503212081	4.9789592	21.1122819
MSLNL	3.301927249	4.149132667	23.33462736
SSTR5	2.201284833	8.298265334	8.889381852
SPSB3	213.5246288	187.5407965	477.8042745
MEIOB	0	0.829826533	0
TEDC2	17.61027866	175.9232251	40.00221833
CCNF	129.8758051	767.5895434	57.78098203
TBC1D24	139.7815869	151.0284291	64.44801842
AMDHD2	99.05781747	91.28091867	242.2356555
NTN3	2.201284833	18.25618373	8.889381852
BICDL2	189.3104956	111.1967555	384.4657651
PAQR4	71.54175706	489.5976547	73.33740027
FLYWCH2	147.4860838	179.2425312	217.7898554
ZG16B	6.603854498	0	10.00055458
ZNF75A	336.7965794	731.9070024	287.7937374
ADCY9	966.3640415	484.6186955	607.8114841
SHANK2	4334.329835	1698.654914	2053.447208
CLPB	331.2933673	905.3407479	388.910456
NEU3	266.3554647	366.7833277	328.9071285
CYB561A3	206.9207743	134.4318984	566.698093
PPP1R32	20.91220591	14.10705107	68.89270935
ASRGL1	82.54818122	1031.474381	145.5636278
GNG3	2.201284833	0	4.444690926
UBXN1	430.3511848	438.9782362	537.807602
LBHD1	18.71092108	36.51236747	81.11560939
TTC9C	231.1349074	185.8811435	104.4502368
TAF6L	146.3854414	282.9708479	423.3568107
NXF1	977.3704657	679.6279308	742.2633846
STX5	445.7601786	438.1484096	618.9232114

SLC25A45	70.44111464	66.38612267	84.44912759
RPL29	1383.507517	887.9143907	1165.620195
ITIH3	8.80513933	14.10705107	23.33462736
SYVN1	930.0428418	520.3012364	896.7163943
ZFPL1	543.7173537	400.8062156	547.8081566
RPS6KA4	202.5182046	190.0302761	421.1344652
LRP5	1828.167053	990.8128808	2187.899108
TPCN2	71.54175706	61.40716347	155.5641824
FGF19	2.201284833	3.319306133	0
CYP4A22	12.10706658	0.829826533	98.8943731
PDZK1IP1	90.25267814	3.319306133	43.33573653
TAL1	11.00642416	4.9789592	14.44524551
CMPK1	3148.937953	1154.288708	677.8153662
BEND5	33.01927249	49.789592	116.6731368
ELAVL4	11.00642416	82.1528268	21.1122819
COA7	150.788011	170.1144393	104.4502368
ZYG11B	803.4689639	604.9435428	1017.834222
SLC1A7	4.402569665	6.638612267	12.22290005
CZIB	230.034265	115.3458881	235.5686191
MAGOH	356.6081429	433.1694504	202.2334371
ACOT11	93.55460539	136.0915515	252.23621
FAM151A	7.704496914	0	4.444690926
PARS2	92.45396297	96.25987787	196.6775735
LEXM	13.207709	0	37.77987287
BSND	3.301927249	4.9789592	0
USP24	3671.743101	2232.233375	4413.578089
PLPP3	423.7473303	112.8564085	295.5719466
NOL9	368.7152095	711.1613391	410.0227379
PRKAA2	432.5524696	167.6249597	437.8020562
KLHL21	171.7002169	99.579184	310.0171921
ZSWIM5	504.0942267	141.9003372	672.2595025
GMEB1	237.7387619	409.1044809	346.6858922
SLC45A1	50.62955115	34.8527144	58.89215477
SELENON	852.9978726	784.186074	1212.28945
AK4	204.7194894	175.0933985	142.2301096
JAK1	3219.379068	2946.71402	4478.026108
RAVER2	607.5546138	815.7194823	685.5935753
CTRC	0	10.78774493	30.00166375
LZIC	264.1541799	1030.644554	447.8026108
RBP7	25.31477557	105.3879697	72.22622754
KNCN	5.503212081	0	0
FBLIM1	201.4175622	85.47213294	147.7859733
TMEM82	0	1.659653067	12.22290005
SLC25A34	5.503212081	19.9158368	91.11616398

AKR7A3	101.2591023	59.7475104	132.229555
DRAXIN	5.503212081	92.1107452	6.667036389
PDPN	137.580302	12.447398	62.22567296
LRRC38	4.402569665	2.4894796	81.11560939
DHRS3	1314.167045	161.816174	1757.875261
MATN1	4.402569665	4.149132667	5.555863657
LAPTM5	478.7794511	264.7146641	415.5786016
SDC3	552.522493	566.7715223	480.02662
PEF1	116.6680961	207.4566333	330.0183012
SYNC	136.4796596	22.4053164	78.89326393
RBBP4	1559.610304	5104.263007	1748.985879
KIAA1522	2357.576056	691.2455023	2985.721129
TSSK3	19.81156349	24.894796	25.55697282
TMCO4	536.0128567	151.0284291	1243.402286
UBXN10	20.91220591	4.149132667	0
CAMK2N1	399.5331971	964.2584318	183.3435007
ALPL	92.45396297	188.3706231	284.4602192
WNT4	91.35332055	78.83352067	335.5741649
TTLL10	19.81156349	13.27722453	52.22511838
SCNN1D	11.00642416	3.319306133	232.2351009
MXRA8	445.7601786	89.6212656	941.1633035
FAAP20	199.2162773	222.3935109	730.0404846
MEGF6	184.9079259	86.30195947	181.1211552
CCDC27	4.402569665	0.829826533	3.333518194
IL23R	23.11349074	3.319306133	3.333518194
DIRAS3	16.50963624	7.4684388	5.555863657
C1orf87	8.80513933	0.829826533	14.44524551
NFIA	3998.633898	1180.01333	2332.351563
OMA1	1197.498949	451.4256342	507.8059383
MYSM1	1709.297673	556.8136039	930.0515762
TM2D1	633.9700318	596.6452775	652.2583934
USP1	707.7130737	3397.309828	340.0188558
FUBP1	3164.346947	4654.497026	2910.161384
NEXN	805.6702487	53.93872467	34.44635467
DNAJB4	228.9336226	387.5289911	208.9004735
ADGRL4	217.9271984	228.2022967	106.6725822
LRRIQ3	19.81156349	42.3211532	33.33518194
LRRC53	26.41541799	15.76670413	43.33573653
TYW3	221.2291257	356.8254093	114.4507913
LHX8	0	1.659653067	4.444690926
SNX7	115.5674537	337.7393991	116.6731368
B3GALT2	61.63597531	87.96161254	66.67036389
NTNG1	161.7944352	1048.070912	307.7948466
EEIG2	175.0021442	587.5171856	257.7920737

HENMT1	225.6316953	623.1997266	404.4668742
AKNAD1	9.905781747	7.4684388	17.7787637
C1orf52	190.411138	195.0092353	112.2284459
DNAI3	33.01927249	39.00184707	27.77931829
GBP2	1643.259128	141.9003372	415.5786016
ATXN7L2	64.93790256	58.91768387	178.8988098
GBP4	305.9785917	42.3211532	53.33629111
ZNF326	868.4068665	1106.988596	406.6892197
HFM1	63.83726015	107.0476228	56.6698093
BRINP3	20.91220591	3.319306133	26.66814555
GFI1	26.41541799	192.5197557	44.44690926
KCNT2	0	0.829826533	0
AGL	1220.61244	1673.760118	1936.774071
VCAM1	466.6723845	71.36508187	104.4502368
EXTL2	217.9271984	355.1657563	208.9004735
SLC30A7	630.6681045	736.0561351	1050.058231
DNAJA1P5	2.201284833	0	0
ZNF281	1507.88011	959.2794726	513.3618019
ARPC5	624.06425	1458.835046	1072.281686
CADM3	27.51606041	4.149132667	24.44580009
TRIM58	24.21413316	139.4108576	40.00221833
SLAMF9	1.100642416	1.659653067	5.555863657
OR2M5	2.201284833	1.659653067	10.00055458
KCNJ9	0	0.829826533	7.77820912
IGSF8	467.7730269	1167.565932	2519.028582
DDR2	1234.920791	171.7740924	486.6936564
PEA15	655.9828801	423.211532	318.9065739
PEX19	132.07709	137.7512045	154.4530097
NCSTN	1147.97004	2218.126324	2029.001408
VANGL2	69.34047223	234.0110824	51.11394565
SLAMF6	70.44111464	6.638612267	5.555863657
OLFML2B	259.7516102	234.8409089	345.5747195
FCRLB	8.80513933	3.319306133	13.33407278
FCGR3B	7.704496914	126.1336331	5.555863657
SLC9C2	18.71092108	6.638612267	30.00166375
KLHDC9	72.64239948	77.1738676	176.6764643
C1orf74	9.905781747	4.149132667	0
LMX1A	4.402569665	1.659653067	8.889381852
LRRC52	5.503212081	0	22.22345463
FLVCR1	390.7280578	384.2096849	258.9032464
GARIN4	7.704496914	4.149132667	1.111172731
ATF3	84.74946605	263.8848376	152.2306642
RBM15	1313.066403	2236.382507	1280.070987
DENND2D	478.7794511	384.2096849	341.1300286

AXDND1	49.52890873	32.3632348	40.00221833
TDRD5	191.5117804	53.10889814	393.3551469
IER5	55.03212081	135.2617249	64.44801842
SNED1	1188.69381	480.4695628	2529.029137
BPNT1	388.526773	531.9188079	311.1283648
SPATA17	238.8394043	130.2827657	36.66870014
C1orf115	190.411138	67.2159492	81.11560939
BROX	611.9571835	1335.190892	1026.723604
NBPF20	301.5760221	329.4411337	383.3545923
ACP6	259.7516102	107.0476228	375.5763832
WDR64	27.51606041	5.808785734	11.11172731
KIF26B	8.80513933	16.59653067	90.00499125
TFB2M	190.411138	238.9900416	252.23621
CNST	559.1263475	478.8099098	401.133356
PPP1R21	643.8758135	609.922502	835.601894
KLHDC8A	3.301927249	12.447398	22.22345463
PM20D1	5.503212081	4.149132667	17.7787637
PKDCC	62.73661773	34.8527144	163.3423915
OXER1	27.51606041	6.638612267	32.22400921
HAAO	50.62955115	5.808785734	17.7787637
B3GALNT	1.100642416	0.829826533	2.222345463
IKBKE-AS	0	0	10.00055458
MAPKAPK	1061.019289	1044.751606	960.05324
IL20	6.603854498	0	1.111172731
IL24	3.301927249	0.829826533	1.111172731
FCMR	208.0214167	35.68254093	46.66925472
PIGR	738.5310613	5.808785734	957.8308945
FCAMR	4.402569665	2.4894796	18.88993643
CAPN2	967.4646839	1513.603597	1420.078751
MRPL55	191.5117804	176.7530516	328.9071285
OBSCN-AS	39.62312699	31.53340827	88.89381852
WDR26	3074.094269	2002.371425	1863.436671
REL	532.7109295	330.2709603	275.5708374
PUS10	93.55460539	52.2790716	76.67091847
PEX13	266.3554647	355.9955828	405.578047
SANBR	107.8629568	282.1410213	214.4563372
TRIM17	9.905781747	6.638612267	2.222345463
RFTN2	144.1841565	83.81247987	114.4507913
DISC1	41.82441182	146.8792964	20.00110917
LINC0193	0	0.829826533	0
CAPN13	217.9271984	110.3669289	308.9060193
LRRTM1	2.201284833	25.72462253	1360.075423
MEMO1	39.62312699	78.83352067	26.66814555
DPY30	212.4239863	596.6452775	132.229555

TYW5	209.1220591	219.0742048	131.1183823
MAIP1	59.43469048	163.4758271	97.78320037
KCNF1	3.301927249	94.6002248	4.444690926
SLC66A3	143.0835141	159.3266944	214.4563372
ARL5A	61.63597531	92.1107452	23.33462736
LRATD1	408.3383364	1295.359219	730.0404846
KCNJ3	53.9314784	1.659653067	15.55641824
NEUROD1	5.503212081	260.5655315	11.11172731
CLHC1	319.1863007	194.1794088	211.122819
PRORSD1I	7.704496914	14.10705107	2.222345463
FRZB	320.2869431	90.45109214	252.23621
DUSP19	38.52248457	45.64045934	25.55697282
CFAP36	337.8972218	662.2015736	247.7915191
NUP35	102.3597447	227.3724701	114.4507913
CCDC138	151.8886534	433.1694504	148.897146
ZSWIM2	5.503212081	0	4.444690926
FBXO41	46.22698148	83.81247987	45.55808199
ACTG2	4841.725989	4.9789592	10.00055458
WDCP	277.3618889	319.4832153	176.6764643
SMC6	1063.220574	1962.539751	786.7102939
VSNL1	17.61027866	0	84.44912759
CCDC74A	52.83083598	42.3211532	11.11172731
H3-3A	1037.905799	3134.254817	1675.648479
ANKRD30	11.00642416	2.4894796	1.111172731
COQ8A	1.100642416	0.829826533	3.333518194
SLC16A14	180.5053563	390.8482972	64.44801842
TEKT4	14.30835141	9.9579184	25.55697282
EN1	4.402569665	11.61757147	4.444690926
SGCB	651.5803104	2355.047702	628.923766
SPATA18	50.62955115	22.4053164	61.11450023
NOSTRIN	75.94432672	16.59653067	25.55697282
CFAP221	58.33404806	181.7320108	25.55697282
SGPP2	57.23340565	69.7054288	163.3423915
INHBB	96.85653263	364.2938481	315.5730557
XIRP2	34.11991491	19.08601027	72.22622754
BBS5	29.71734524	23.23514293	30.00166375
BIRC8	1.100642416	1.659653067	2.222345463
SMARCAI	814.4753881	907.000401	853.3806577
HPGDS	64.93790256	34.02288787	23.33462736
PDLIM5	3547.370508	864.6792478	5245.846465
PDHA2	0	0	33.33518194
STPG2	42.92505424	14.9368776	62.22567296
NEURL3	4.402569665	2.4894796	2.222345463
RPRD2	2693.271993	2713.532764	2362.353227

ANKRD23	17.61027866	5.808785734	28.89049102
CTSS	959.760187	571.7504815	392.2439742
MSX1	5.503212081	11.61757147	58.89215477
PACRGL	288.3683131	338.5692256	217.7898554
BNIPL	23.11349074	13.27722453	42.22456379
C1QTNF7	161.7944352	4.9789592	10.00055458
TNFAIP8L	23.11349074	9.9579184	64.44801842
LYSMD1	92.45396297	167.6249597	182.232328
SCNM1	156.2912231	166.7951332	112.2284459
TMOD4	81.44753881	25.72462253	74.44857301
VPS72	600.9507593	726.9280432	556.6975385
ERCC3	618.561038	791.6545128	803.3778848
RNF149	412.7409061	295.4182459	714.4840663
IWS1	1131.460404	1077.11484	1054.502922
BOLA3	74.84368431	115.3458881	47.78042745
CDC42EP3	1054.415435	621.5400735	172.2317734
S100A11	3103.811614	482.9590424	976.7208309
LCE3D	1.100642416	0	5.555863657
IVL	1.100642416	2.4894796	6.667036389
SPRR3	0	0	3.333518194
DHX57	1187.593167	1114.457034	835.601894
SPRR2D	1.100642416	0	2.222345463
BMP10	1.100642416	0	8.889381852
PGLYRP4	3.301927249	1.659653067	4.444690926
ARHGAP2	130.9764475	35.68254093	45.55808199
S100A9	34.11991491	353.5061032	47.78042745
S100A12	1.100642416	45.64045934	13.33407278
TGFA	20.91220591	63.89664307	21.1122819
TDRD10	18.71092108	4.149132667	33.33518194
CCNYL1	170.5995745	258.9058784	177.787637
FZD5	399.5331971	405.7851748	386.6881105
DCAF16	407.237694	551.0048182	337.7965104
CFAP141	16.50963624	12.447398	23.33462736
NPPC	0	29.04392867	12.22290005
GNPDA2	453.4646755	437.3185831	231.1239281
ALPP	9.905781747	8.298265334	6.667036389
GABRG1	6.603854498	1.659653067	3.333518194
ALPG	4.402569665	4.149132667	5.555863657
GABRB1	11.00642416	4.9789592	0
PAQR3	201.4175622	246.4584804	287.7937374
NIPAL1	70.44111464	152.6880821	227.7904099
ALPI	5.503212081	5.808785734	18.88993643
ANTXR2	2113.233439	99.579184	1516.750778
HELQ	691.2034374	351.0166236	607.8114841

MRPS18C	133.1777324	156.8372148	92.22733671
CGGBP1	614.1584683	1077.11484	657.814257
ABRAXAS	230.034265	137.7512045	183.3435007
GPR155	687.9015102	166.7951332	496.694211
DAPL1	0	154.3477352	18.88993643
PMVK	115.5674537	213.2654191	276.6820101
PBXIP1	521.7045053	240.6496947	1904.550062
CLDN1	199.2162773	167.6249597	186.6770189
PYGO2	334.5952946	515.3222772	635.5908024
HIPK1	2716.385483	3155.00048	2817.934047
LENEP	0	0.829826533	0
DCST2	74.84368431	29.04392867	133.3407278
DCST1	6.603854498	3.319306133	15.55641824
COL6A3	11128.59547	4447.870219	2847.935711
INAVA	58.33404806	28.21410213	37.77987287
LINC01116	1.100642416	10.78774493	0
YY1AP1	2072.50967	1594.926597	1641.202124
KBTBD8	42.92505424	55.59837774	5.555863657
TAFA4	11.00642416	5.808785734	54.44746384
EOGT	618.561038	320.3130419	107.7837549
LMOD3	17.61027866	4.149132667	10.00055458
NAXE	1.100642416	3.319306133	2.222345463
POGLUT1	171.7002169	240.6496947	210.0116462
SLC22A15	62.73661773	143.5599903	85.56030032
CCKAR	2.201284833	0	11.11172731
IGFN1	108.9635992	1424.812158	220.0122008
ATP1A1	6958.261356	7270.940085	8124.895012
SLC15A2	311.4818038	66.38612267	251.1250373
EIF4E3	110.0642416	107.0476228	27.77931829
PROK2	2.201284833	9.128091867	6.667036389
TEX55	4.402569665	53.10889814	0
LRRC58	427.0492575	987.4935747	567.8092658
FSTL1	2852.865143	692.0753288	4779.153918
LMOD1	2797.833022	37.342194	135.5630732
ELF3	443.5588938	890.4038703	454.4696472
PDCL2	2.201284833	4.149132667	6.667036389
TMEM183	1171.083531	1487.878974	1071.170513
TMEM169	8.80513933	81.32300027	5.555863657
IGFBP7	3586.993635	1140.181657	950.0526854
TRIM46	9.905781747	46.47028587	26.66814555
KRTCAP2	11.00642416	18.25618373	4.444690926
CXCR1	0	32.3632348	8.889381852
ARPC2	2267.323378	3102.721408	1845.657907
TSACC	26.41541799	36.51236747	22.22345463

CCT3	1799.550351	4553.258189	2717.928501
TMEM79	111.164884	21.57548987	178.8988098
SSR2	1180.989313	1494.517587	1510.083742
RNF25	173.9015018	187.5407965	241.1244827
STK36	894.8222845	492.9169608	2424.5789
ADORA1	25.31477557	48.95976547	22.22345463
NEK10	162.8950776	186.71097	77.7820912
CCDC141	282.865101	73.02473494	277.7931829
FEV	17.61027866	2.4894796	16.66759097
CRYBA2	6.603854498	62.23699	11.11172731
IHH	26.41541799	7.4684388	32.22400921
CIP2A	145.284799	740.2052678	110.0061004
EOMES	89.15203572	15.76670413	57.78098203
CWC22	1076.428283	1207.397606	634.4796297
AZI2	650.479668	887.0845642	577.8098203
TGFBR2	4581.974379	1529.370301	2541.252037
RETNLB	1.100642416	25.72462253	3.333518194
ANKZF1	303.7773069	242.3093477	294.4607738
HDAC11	110.0642416	128.6231127	252.23621
FCRL4	12.10706658	0.829826533	1.111172731
TRAT1	19.81156349	29.8737552	0
FBLN2	945.4518356	3085.295051	1960.108698
GLB1L	127.6745203	193.3495823	158.8977006
STT3B	2477.546079	5467.727028	4461.358517
CHCHD4	86.95075089	147.7091229	46.66925472
DPPA2	3.301927249	6.638612267	23.33462736
NFASC	881.6145755	346.0376644	100.0055458
FCRL1	16.50963624	4.9789592	4.444690926
SGO2	139.7815869	1031.474381	83.33795486
SERPINI1	58.33404806	123.6441535	2544.585555
CLASP2	1929.426156	2892.775295	2896.827311
SUCLG1	652.6809529	1136.862351	713.3728936
NUAK2	134.2783748	252.2672661	56.6698093
SPTA1	36.32119974	23.23514293	85.56030032
PRKCI	1019.194877	1522.731689	1336.740796
MNDA	137.580302	117.0055412	25.55697282
PYHIN1	113.3661689	6.638612267	4.444690926
IFI16	1338.381178	345.2078379	206.678128
AIM2	31.91863007	9.128091867	22.22345463
EFHB	95.75589022	43.15097974	75.55974574
EIF5A2	74.84368431	169.2846128	102.2278913
SLC2A2	4.402569665	4.149132667	12.22290005
RPL22L1	471.0749542	303.7165112	116.6731368
FABP1	0	1.659653067	0

PPM1L	216.826556	504.5345323	210.0116462
ICA1L	365.4132822	425.7010116	345.5747195
SNHG16	58.33404806	95.43005134	4.444690926
CTLA4	16.50963624	3.319306133	15.55641824
ICOS	41.82441182	1.659653067	16.66759097
RYBP	0	8.298265334	0
PPP4R2	189.3104956	274.6725825	96.67202764
CD200R1	52.83083598	9.9579184	32.22400921
GTPBP8	170.5995745	277.9918887	146.6748005
NEPRO	497.4903722	911.9793602	638.9243206
SPICE1	48.42826632	57.2580308	37.77987287
FAM86KP	1.100642416	0	0
CCDC191	747.3362007	580.8785734	847.8247941
CADPS	42.92505424	162.6460005	81.11560939
NKX6-1	12.10706658	7.4684388	116.6731368
CDS1	198.1156349	117.0055412	478.9154472
WDFY3	5186.227066	3812.223094	7379.298109
COX18	189.3104956	126.1336331	156.6753551
PTPN13	3950.205632	1309.46627	7009.27759
SYNPR	6.603854498	0.829826533	0
ALB	78.14561156	7.4684388	72.22622754
C3orf49	2.201284833	0	0
C4orf36	0	0.829826533	12.22290005
THOC7	618.561038	497.0660935	220.0122008
ATXN7	1371.400451	409.9343075	657.814257
PSMD6	711.0150009	672.159492	385.5769378
PRICKLE2	294.9721676	55.59837774	161.1200461
ADAMTS9	427.0492575	258.9058784	266.6814555
PPM1K	352.2055732	63.06681654	536.6964293
ERICH6	46.22698148	19.08601027	71.11505481
CLRN1	2.201284833	0	5.555863657
GMPS	1639.9572	5220.438721	1496.749669
TIPARP	1008.188453	419.8922259	442.2467471
CCNL1	1564.012874	1004.090105	1734.540634
PTX3	2.201284833	40.66150013	10.00055458
HESX1	15.40899383	14.10705107	4.444690926
DCLK3	6.603854498	2.4894796	0
SLMAP	1500.175613	631.4979919	578.9209931
RPL9	150.788011	207.4566333	117.7843095
SMIM14	369.8158519	73.85456147	604.4779659
RPP14	13.207709	12.447398	5.555863657
ABHD6	94.6552478	104.5581432	193.3440553
DNASE1L	28.61670282	6.638612267	1091.171622
CFAP20DC	82.54818122	259.7357049	43.33573653

RBM47	1398.916511	390.0184707	2897.938484
APBB2	1526.591031	602.4540632	1391.18826
IL17RE	66.03854498	58.08785734	46.66925472
IL17RC	61.63597531	18.25618373	143.3412824
CRELD1	53.9314784	38.17202053	47.78042745
PRRT3	320.2869431	191.6899292	575.5874749
FANCD2O	5.503212081	4.149132667	14.44524551
PCOLCE2	203.618847	18.25618373	103.339064
U2SURP	2704.278417	3007.291357	1273.40395
MTMR14	377.5203488	431.5097974	706.7058572
TTC14	757.2419824	387.5289911	841.1577577
CXCL3	35.22055732	9.128091867	2.222345463
CXCL5	8.80513933	3.319306133	6.667036389
PPBP	0	0.829826533	0
MTHFD2L	165.0963624	336.079746	158.8977006
CXCL1	49.52890873	6.638612267	27.77931829
RCHY1	331.2933673	166.7951332	246.6803464
PLSCR2	9.905781747	20.74566333	17.7787637
CCDC158	140.8822293	18.25618373	101.1167186
CPA3	446.860821	7.4684388	10.00055458
GYG1	347.8030036	273.0129295	210.0116462
HPS3	669.1905891	958.449646	920.0510216
TM4SF18	27.51606041	48.12993894	12.22290005
TOPBP1	1287.751627	4888.508108	736.7075209
RYK	1849.079259	1914.409812	1450.080415
SNRK	657.0835225	532.7486344	361.1311377
TCF23	1.100642416	0	0
DNAJC5G	2.201284833	2.4894796	0
UCN	12.10706658	19.08601027	56.6698093
ZNF513	314.7837311	403.2956952	791.1549848
SLC4A1AI	600.9507593	551.0048182	570.0316112
PLB1	108.9635992	71.36508187	93.33850944
SPDYA	6.603854498	23.23514293	2.222345463
KIAA1143	48.42826632	11.61757147	5.555863657
KIF15	1.100642416	51.44924507	2.222345463
TGM4	1.100642416	0	1.111172731
WDR43	1161.177749	1419.003372	624.4790751
ZDHHC3	531.6102871	183.3916639	316.6842285
CDCP1	412.7409061	365.9535012	254.4585555
CLEC3B	6.603854498	5.808785734	17.7787637
SLC6A20	11.00642416	182.5618373	1888.993643
LZTFL1	212.4239863	173.4337455	97.78320037
FYCO1	1633.353346	285.4603275	1263.403396
CCR1	44.02569665	32.3632348	32.22400921

RTP3	1.100642416	0	7.77820912
LRRC2	16.50963624	8.298265334	5.555863657
ELP6	195.9143501	219.9040313	185.5658462
FBXO40	8.80513933	3.319306133	20.00110917
DTX3L	1196.398307	848.9125436	1344.519005
ZNF148	2521.571776	2676.19057	1958.997526
NMNAT3	113.3661689	7.4684388	13.33407278
SMIM12	102.3597447	275.5024091	145.5636278
ZMYM6	410.5396213	302.0568581	373.3540378
TPRA1	92.45396297	133.6020719	226.6792372
YEATS2	1463.854414	1842.214904	1274.515123
GRIK3	27.51606041	2840.496224	28.89049102
ZC3H12A	366.5139246	65.55629614	598.9221022
MEAF6	527.2077174	842.2739314	1195.621859
SNIP1	456.7666028	472.1712975	287.7937374
DNALI1	258.6509678	6.638612267	13.33407278
POLR2H	193.7130653	633.157645	228.9015827
KLF15	208.0214167	222.3935109	554.475193
CFAP100	6.603854498	4.9789592	2.222345463
CAMK2N2	3.301927249	197.4987149	1.111172731
LIPH	190.411138	4.9789592	57.78098203
TMEM41A	161.7944352	144.3898168	124.4513459
RPN1	2932.111397	3080.316092	3581.309713
SENP2	673.5931588	566.7715223	647.8137024
HEYL	244.3426164	128.6231127	72.22622754
IFT122	624.06425	905.3407479	1026.723604
RHO	1.100642416	2.4894796	8.889381852
IGF2BP2-A	2.201284833	0	0
RFC4	178.3040714	1981.625762	156.6753551
RPL39L	13.207709	1.659653067	0
BAP1	657.0835225	477.1502567	1021.16774
TKT	1484.76662	1161.757147	1715.650697
PRKCD	1846.877975	411.5939605	1231.179386
RFT1	176.1027866	161.816174	205.5669553
SFMBT1	392.9293426	621.5400735	447.8026108
GNL3	1189.794452	697.8841146	363.3534832
PBRM1	3646.428325	3433.822195	2123.45109
UVSSA	375.319064	264.7146641	2050.11369
TASOR	2871.576064	1777.488434	1751.208225
ARHGEF3	374.2184215	165.1354801	250.0138646
SLBP	204.7194894	843.9335844	240.01331
LRPAP1	618.561038	1043.921779	2867.93682
ZDHHC19	4.402569665	3.319306133	16.66759097
SLC51A	74.84368431	6.638612267	33.33518194

UBXN7	1050.012865	1748.444506	965.6091036
RNF168	945.4518356	2343.43013	856.7141759
PIGX	190.411138	736.8859616	745.5969028
MELTF	91.35332055	658.052441	647.8137024
OTOP1	3.301927249	1.659653067	11.11172731
S100P	2.201284833	2.4894796	6.667036389
ABLIM2	91.35332055	130.2827657	175.5652916
EXO5	58.33404806	205.7969803	132.229555
CLDN19	2.201284833	0	1.111172731
C1orf50	11.00642416	19.08601027	2.222345463
ERMAP	272.9593192	53.10889814	315.5730557
ZNF691	253.1477557	105.3879697	192.2328825
AIMP1	427.0492575	414.9132667	496.694211
SGMS2	369.8158519	153.5179087	554.475193
METAP1	651.5803104	728.5876963	518.9176656
DNAJB14	702.2098616	433.1694504	356.6864468
H2AZ1	89.15203572	525.2801956	80.00443666
EMCN	62.73661773	53.10889814	40.00221833
SLC9B1	19.81156349	10.78774493	54.44746384
SLC9B2	86.95075089	69.7054288	571.142784
BDH2	152.9892959	65.55629614	262.2367646
PGRMC2	980.6723929	1161.757147	395.5774924
CDC25A	29.71734524	176.7530516	7.77820912
CAMP	1.100642416	3.319306133	6.667036389
ZNF589	336.7965794	198.3285415	182.232328
FBXW12	2.201284833	8.298265334	24.44580009
PLXNB1	1855.683114	923.5969316	3997.999488
CCDC51	93.55460539	123.6441535	102.2278913
ATRIP	137.580302	98.74935747	75.55974574
SHISA5	914.6338479	253.0970927	634.4796297
SPRY1	246.5439013	195.8390619	121.1178277
BSN	171.7002169	1831.427159	465.5813745
APEH	575.6359837	398.316736	781.1544302
INTU	313.6830886	393.3377768	522.2511838
RNF123	375.319064	231.5216028	963.3867582
HSPA4L	167.2976473	625.6892062	100.0055458
MFSD8	274.0599617	188.3706231	157.7865279
ABHD18	444.6595362	686.2665431	446.691438
CAMKV	1.100642416	9.9579184	15.55641824
MON1A	141.9828717	48.12993894	56.6698093
MST1R	27.51606041	112.8564085	28.89049102
RAD54L2	760.5439097	591.6663183	544.4746384
TEX264	311.4818038	117.8353677	238.9021373
GRM2	7.704496914	110.3669289	6.667036389

DUSP7	539.314784	205.7969803	45.55808199
POC1A	49.52890873	211.605766	27.77931829
PPM1M	72.64239948	23.23514293	113.3396186
ETNPPL	9.905781747	4.9789592	18.88993643
WDR82	690.102795	858.870462	540.0299475
PITX2	6.603854498	4.149132667	10.00055458
C4orf3	369.8158519	323.632348	291.1272556
PRSS12	133.1777324	9.9579184	64.44801842
NDST3	24.21413316	5.808785734	50.00277291
HMGB2	275.1606041	2054.650497	267.7926283
SAP30	64.93790256	126.1336331	80.00443666
SCRG1	16.50963624	0	0
HAND2	9.905781747	2.4894796	22.22345463
MAD2L1	34.11991491	949.3215542	22.22345463
ANXA5	5751.957268	5307.570507	4782.487436
SMIM43	5.503212081	2.4894796	2.222345463
ADAD1	16.50963624	4.9789592	8.889381852
MAP9	357.7087853	716.1402983	471.1372381
GUCY1A1	1131.460404	112.8564085	2613.478264
FBXO8	214.6252712	357.6552359	356.6864468
CEP44	191.5117804	214.0952456	210.0116462
HPGD	73.74304189	27.3842756	33.33518194
ASB5	95.75589022	3.319306133	12.22290005
C4orf45	3.301927249	2.4894796	0
TMEM144	314.7837311	43.15097974	228.9015827
GASK1B	504.0942267	514.4924507	991.1660764
NPY1R	23.11349074	8.298265334	0
NPY5R	4.402569665	0	0
NAA15	1021.396162	1887.025537	750.0415937
IL15	15.40899383	8.298265334	31.11283648
FHIP1A	708.8137161	496.236267	1444.524551
ARFIP1	397.3319123	528.5995018	433.3573653
ICE1	2173.768772	3001.482571	1536.751888
HHIP	220.1284833	16.59653067	17.7787637
ANAPC10	39.62312699	119.4950208	57.78098203
ABCE1	599.8501169	1359.255862	534.4740838
OTUD4	1302.059978	2022.287262	983.3878673
LSM6	126.5738779	242.3093477	170.0094279
TMEM184	814.4753881	870.4880335	903.3834307
PRMT9	523.9057902	473.8309506	407.8003924
ITGA2	582.2398382	97.0897044	166.6759097
MOCS2	408.3383364	350.1867971	136.674246
SLC45A2	18.71092108	9.9579184	36.66870014
EDIL3	195.9143501	222.3935109	135.5630732

TMEM161	224.5310529	239.8198681	138.8965914
ELOVL7	133.1777324	310.3551235	143.3412824
NDUFAF2	127.6745203	78.83352067	77.7820912
ZNF474	2.201284833	4.149132667	4.444690926
LMBRD2	658.1841649	657.2226144	427.8015016
RANBP3L	543.7173537	34.02288787	1457.858624
NIPBL	9485.336344	8792.012121	4413.578089
RNF180	469.9743118	148.5389495	222.2345463
ADGRV1	1812.75806	4763.204302	2606.811228
SLC25A46	574.5353413	463.0432056	280.0155283
STARD4	48.42826632	258.9058784	21.1122819
PGGT1B	391.8287002	351.8464501	266.6814555
F2RL2	34.11991491	22.4053164	16.66759097
CCDC112	482.0813783	497.89592	80.00443666
ANKRD33	64.93790256	233.1812559	87.78264578
CMBL	239.9400468	376.7412461	792.2661575
C5orf63	81.44753881	87.96161254	61.11450023
PRRC1	1485.867262	848.0827171	610.0338296
F2RL1	206.9207743	45.64045934	111.1172731
AGGF1	41.82441182	68.87560227	43.33573653
WDR41	465.5717421	614.0716347	272.2373192
PRDM9	1.100642416	0	1.111172731
NDUFS4	236.6381195	637.3067776	234.4574463
SCGB3A2	1.100642416	8.298265334	1.111172731
SPINK1	138.6809445	2.4894796	0
HTR4	11.00642416	1.659653067	7.77820912
ESM1	8.80513933	27.3842756	23.33462736
GRPEL2	70.44111464	159.3266944	57.78098203
CDC20B	2.201284833	4.9789592	50.00277291
ARSK	78.14561156	102.8984901	85.56030032
RHOBTB3	654.8822377	1725.209363	383.3545923
GPX8	119.9700234	51.44924507	32.22400921
TIGD6	256.449683	152.6880821	123.3401732
SPZ1	0	0	1.111172731
SERINC5	1139.164901	423.211532	3026.83452
ENPP6	29.71734524	0	724.4846209
CAGE1	6.603854498	16.59653067	16.66759097
CASP3	123.2719506	307.0358173	107.7837549
PRIMPOL	132.07709	170.1144393	88.89381852
ERAP1	1140.265543	189.2004496	388.910456
ERAP2	1271.241991	360.1447155	161.1200461
CMYA5	924.5396297	129.4529392	185.5658462
EGFLAM	294.9721676	129.4529392	183.3435007
CFAP97	1070.925071	1565.052842	685.5935753

TMEM174	1.100642416	0.829826533	4.444690926
CARTPT	0	0	2.222345463
RICTOR	1756.625296	2519.353355	1392.299432
TENT2	903.6274238	528.5995018	470.0260654
EBF1	276.2612465	233.1812559	148.897146
ANKRA2	283.9657434	207.4566333	168.8982552
UBLCP1	526.107075	551.8346447	196.6775735
FAM170A	2.201284833	0	3.333518194
UTP15	193.7130653	288.7796336	163.3423915
TLR3	298.2740948	34.02288787	67.78153662
KLKB1	1.100642416	0	0
NSA2	530.5096447	460.553726	163.3423915
GFM2	490.8865177	581.7083999	347.7970649
TERT	17.61027866	14.9368776	28.89049102
SLC6A18	5.503212081	9.128091867	0
CCDC127	265.2548223	269.6936233	223.345719
FOXQ1	30.81798766	61.40716347	26.66814555
LINC0160(	0	5.808785734	0
ADGRF2	13.207709	10.78774493	14.44524551
ACSL6	4.402569665	3.319306133	3.333518194
CSF2	0	0.829826533	0
SEPTIN8	292.7708827	287.9498071	370.0205196
SHROOM1	239.9400468	91.28091867	3347.96344
GDF9	7.704496914	29.04392867	31.11283648
UQCRQ	230.034265	507.0240119	728.9293118
LEAP2	5.503212081	2.4894796	7.77820912
GJB7	4.402569665	2.4894796	0
SLC35A1	14.30835141	7.4684388	0
GRIK2	105.661672	2920.989397	93.33850944
CGAS	75.94432672	15.76670413	11.11172731
FABP7	1.100642416	0	6.667036389
TLX3	8.80513933	9.128091867	0
TXLNB	49.52890873	9.128091867	36.66870014
CITED2	578.937911	1080.434146	768.9315302
CALHM4	4.402569665	0	1.111172731
TBXT	2.201284833	154.3477352	20.00110917
CREBRF	669.1905891	602.4540632	691.149439
DCBLD1	160.6937928	160.9863475	140.0077642
SFXN1	394.029985	1595.756424	304.4613284
SAMD3	70.44111464	6.638612267	5.555863657
TMEM200	195.9143501	12.447398	40.00221833
IL22RA2	4.402569665	0	2.222345463
DACT2	37.42184215	2.4894796	25.55697282
PDSS2	210.2227015	125.3038065	213.3451644

SPATA48	1.100642416	6.638612267	16.66759097
STXBP5	2435.721667	1448.047301	1020.056567
H2AC1	0	0.829826533	5.555863657
IL31RA	9.905781747	2.4894796	16.66759097
ANKRD55	7.704496914	6.638612267	14.44524551
RAET1E	0	4.149132667	0
PI16	28.61670282	3.319306133	18.88993643
TBX20	4.402569665	1.659653067	12.22290005
DAGLB	156.2912231	68.87560227	148.897146
MATCAP2	182.7066411	256.4163988	134.4519005
STK17A	236.6381195	132.7722453	73.33740027
TRA2A	2085.717379	1059.688483	533.3629111
FAM183BI	2.201284833	1.659653067	0
GALNT10	674.6938012	363.4640216	428.9126743
SAP30L	155.1905807	175.9232251	91.11616398
RPS14	555.8244202	372.5921135	1087.838104
HCN1	5.503212081	4.9789592	34.44635467
MYOZ3	12.10706658	2.4894796	1.111172731
COG5	102.3597447	21.57548987	116.6731368
NEUROD6	5.503212081	2.4894796	101.1167186
BMT2	183.8072835	90.45109214	133.3407278
GPR85	5.503212081	4.9789592	7.77820912
SLU7	1130.359762	2036.394313	674.481848
RP9	189.3104956	132.7722453	130.0072096
PTTG1	88.0513933	1555.92475	12.22290005
CAMLG	198.1156349	210.7759395	198.8999189
FBXL21P	2.201284833	4.9789592	18.88993643
BMPER	69.34047223	33.19306133	65.55919115
RELL2	7.704496914	10.78774493	13.33407278
SMAD5-A	1.100642416	0	0
KCNK5	165.0963624	207.4566333	38.8910456
KIF6	24.21413316	40.66150013	14.44524551
ZNF12	792.4625397	550.1749916	317.7954012
SLC29A4	41.82441182	172.6039189	262.2367646
TEX47	1.100642416	175.9232251	7.77820912
STEAP1	1150.171325	17.4263572	1623.423361
CDCA7L	320.2869431	19.08601027	7.77820912
SP8	90.25267814	7.4684388	0
MIOS	1681.781612	377.5710727	906.7169489
ELAPOR2	291.6702403	170.1144393	158.8977006
USP49	13.207709	98.74935747	2.222345463
INTS4P1	2.201284833	2.4894796	0
SYTL3	350.0042884	2007.350384	148.897146
IQUB	260.8522527	23.23514293	97.78320037

HEY1	28.61670282	75.51421454	56.6698093
ZNF704	1700.492533	680.4577574	2137.896335
FABP5	100.1584599	1055.53935	395.5774924
SHH	11.00642416	1.659653067	402.2445288
TAGAP	99.05781747	54.7685512	18.88993643
COL1A2	12709.11798	8786.203335	8626.033914
FNDC1	29.71734524	95.43005134	157.7865279
CHMP4C	231.1349074	540.2170732	342.2412013
SLC13A4	4.402569665	2.4894796	1208.955932
PGAM2	4.402569665	3.319306133	35.55752741
BRI3	322.488228	253.0970927	383.3545923
LMTK2	1548.60388	1114.457034	1266.736914
SLC35G3	0	2.4894796	0
CTSB	768.2484066	403.2956952	186.6770189
SOX17	16.50963624	26.55444907	10.00055458
SEPTIN7P	0	0.829826533	0
DLC1	260.8522527	179.2425312	82.22678213
ADCY1	72.64239948	459.7238995	60.0033275
C8orf48	13.207709	3.319306133	1.111172731
SUN3	7.704496914	0	3.333518194
C7orf57	3.301927249	6.638612267	3.333518194
HNF4G	35.22055732	9.9579184	40.00221833
PEX2	540.4154264	832.316013	735.5963482
RAD21	2720.788053	12966.03958	3347.96344
SLC30A8	6.603854498	11.61757147	12.22290005
MED30	51.73019357	338.5692256	75.55974574
TNFRSF11	15.40899383	85.47213294	438.9132289
SBSPON	62.73661773	5.808785734	24.44580009
PHKG1	23.11349074	9.128091867	7.77820912
EN2	2.201284833	2.4894796	0
KCNV1	12.10706658	7.4684388	37.77987287
CSMD3	376.4197064	34.8527144	65.55919115
SPIDR	1849.079259	4191.45382	2237.901881
ORC5	389.6274154	193.3495823	74.44857301
DNAAF5	310.3811614	174.263572	451.136129
OSGIN2	592.14562	1909.430853	605.5891386
DEFB1	7.704496914	0	2.222345463
SUN1	1649.862982	1872.088659	1712.317179
OXR1	1234.920791	4070.299146	844.4912759
TMEM74	6.603854498	160.1565209	151.1194915
FAM86FP	1.100642416	0.829826533	1.111172731
GPR146	16.50963624	14.10705107	45.55808199
GPER1	51.73019357	14.9368776	58.89215477
UNCX	3.301927249	0	1.111172731

TMEM184	429.2505424	53.10889814	85.56030032
NOS3	58.33404806	43.15097974	160.0088733
SPAG11B	1.100642416	0	0
MICALL2	361.0107125	214.0952456	753.3751119
CA3	13.207709	18.25618373	102.2278913
INTS1	1692.788036	1077.944667	3024.612175
CDK5	46.22698148	89.6212656	33.33518194
SLC4A2	468.8736693	381.7202053	792.2661575
SLC7A13	29.71734524	1.659653067	17.7787637
FASTK	234.4368347	113.6862351	466.6925472
TMUB1	213.5246288	210.7759395	221.1233736
FMC1	2.201284833	0.829826533	1.111172731
GBX1	1.100642416	0.829826533	3.333518194
PHAX	294.9721676	368.4429808	120.006655
ALDH7A1	647.1777408	765.9298903	755.5974574
FOXK1	636.1713166	379.2307257	633.3684569
COX6C	829.8843819	2867.050673	882.2711488
OSR2	624.06425	155.1775617	135.5630732
YWHAZ	1757.725939	6889.21988	2310.128109
BAALC	16.50963624	98.74935747	8.889381852
FZD6	911.3319207	2506.905957	1220.067659
CTHRC1	137.580302	449.7659811	63.33684569
SLC25A32	50.62955115	64.7264696	92.22733671
DCAF13	635.0706742	2216.466671	511.1394565
DCSTAMI	5.503212081	11.61757147	25.55697282
TP53INP1	638.3726015	512.0029711	763.3756665
INTS8	1532.094243	3489.420573	2024.556717
VIRMA	2616.227024	4942.446833	2543.474382
FREM1	366.5139246	82.1528268	1870.103707
GEM	302.6766645	143.5599903	51.11394565
PDP1	729.725922	1370.873433	877.8264578
TMEM67	865.1049392	1580.819546	1045.61354
WASHC5	1929.426156	2455.456712	1743.430016
RPP25L	47.3276239	64.7264696	180.0099825
FAM219A	88.0513933	190.8601027	102.2278913
C9orf24	5.503212081	9.128091867	15.55641824
SNAPC3	889.3190724	959.2794726	752.2639392
MYORG	132.07709	312.0147765	152.2306642
NUDT2	42.92505424	61.40716347	85.56030032
TMEM65	329.0920825	1421.492852	288.9049102
PSIP1	1857.884399	6738.191451	622.2567296
CCDC171	236.6381195	725.2683902	436.6908835
UBAP1	724.2227099	1063.007789	851.1583123
DIRAS2	11.00642416	39.00184707	18.88993643

SYK	282.865101	877.9564723	333.3518194
NIPSNAP3	60.5353329	105.3879697	461.1366835
ABCA1	2135.246288	763.4404107	1910.105925
NFIL3	671.3918739	633.157645	712.2617209
LETM2	30.81798766	101.2388371	11.11172731
METTL2B	298.2740948	156.8372148	121.1178277
PRKACG	0	0.829826533	10.00055458
FXN	30.81798766	42.3211532	7.77820912
ZMAT4	119.9700234	822.3580946	83.33795486
NKX6-3	3.301927249	1.659653067	5.555863657
TMEM71	33.01927249	14.10705107	25.55697282
MAMDC2	79.24625397	28.21410213	27.77931829
PRSS37	1.100642416	0	10.00055458
CPA6	186.0085684	3.319306133	397.7998379
C8orf34	130.9764475	4.149132667	351.1305831
TMC1	26.41541799	7.4684388	244.4580009
ALDH1A1	979.5717505	326.9516541	133.3407278
KDM1B	739.6317038	1447.217474	756.7086301
HGSNAT	1099.541774	760.1211046	1548.974788
RASEF	1263.537494	1760.062077	1218.956486
GKAP1	137.580302	352.6762767	104.4502368
KIF27	666.9893043	896.212656	521.140011
C9orf64	171.7002169	423.211532	296.6831193
HNRNPK	4157.126406	7380.477188	3579.087368
SSMEM1	4.402569665	5.808785734	11.11172731
ENSG0000	124.372593	87.96161254	72.22622754
SVEP1	871.7087937	409.1044809	478.9154472
TRPV6	274.0599617	9.9579184	411.1339106
LLCFC1	1.100642416	0	0
ANKS6	370.9164943	420.7220524	726.7069664
FBP1	293.8715252	34.8527144	97.78320037
PGAP4	93.55460539	84.6423064	188.8993643
ZHX1	2368.58248	3175.746143	1274.515123
CFAP47	183.8072835	248.94796	1157.841986
CYBB	545.9186385	297.9077255	385.5769378
DYNLT3	126.5738779	477.9800832	247.7915191
METTL27	154.0899383	52.2790716	91.11616398
MID1IP1	111.164884	204.9671537	162.2312188
NCF1C	6.603854498	1.659653067	5.555863657
SHOC1	36.32119974	7.4684388	60.0033275
CXorf58	4.402569665	4.149132667	0
KIAA1958	348.903646	822.3580946	1255.625187
PTCHD1	92.45396297	28.21410213	118.8954823
RNF183	2.201284833	107.0476228	0

ASB11	4.402569665	4.9789592	7.77820912
PCDH19	85.85010847	108.7072759	1543.418924
PIGA	102.3597447	268.0339703	116.6731368
VEGFD	20.91220591	4.9789592	10.00055458
OR1Q1	0	17.4263572	17.7787637
OR1K1	1.100642416	2.4894796	5.555863657
STRBP	1447.344777	3642.108655	4064.669852
CLDN3	2824.24844	867.9985539	775.5985665
GAPVD1	1510.081395	2124.355925	1718.984216
CARD19	86.95075089	172.6039189	172.2317734
WNK2	3773.002203	2121.036619	5084.726419
ATP7A	1448.44542	728.5876963	1271.181605
ZNF367	18.71092108	964.2584318	8.889381852
NLGN4Y	891.5203572	51.44924507	108.8949277
HDX	430.3511848	344.3780113	195.5664007
NDUFB6	41.82441182	180.0723577	104.4502368
AQP7	2.201284833	9.128091867	23.33462736
NOL6	528.3083598	469.6818179	1014.500704
AQP3	1151.271967	9.9579184	143.3412824
TRMT10B	190.411138	118.6651943	154.4530097
VCP	1621.246279	2374.963538	4351.352416
PIGO	482.0813783	490.4274812	1555.641824
STOML2	297.1734524	617.3909408	450.0249562
BRWD3	2303.644577	4543.30027	1943.441107
SLITRK5	514.0000084	514.4924507	237.7909645
MELK	88.0513933	1723.54971	40.00221833
ARMC3	91.35332055	190.0302761	20.00110917
OTUD1	245.4432588	368.4429808	260.0144192
ARHGAP1	1469.357626	1868.769353	1706.761315
FAT3	367.614567	2203.189446	493.3606928
DEUP1	19.81156349	10.78774493	11.11172731
HECTD2	555.8244202	276.3322356	268.903801
SLC7A3	57.23340565	1.659653067	15.55641824
FBXO33	226.7323378	517.8117568	454.4696472
INTS6L	233.3361923	201.6478476	184.4546734
GPR101	0	0.829826533	8.889381852
CLDN2	0	0.829826533	0
LRFN5	125.4732355	1308.636443	120.006655
LRRC18	1.100642416	1.659653067	0
SPTSSA	155.1905807	614.9014612	211.122819
WRN	655.9828801	594.1557979	411.1339106
MARCHF8	42.92505424	48.95976547	78.89326393
TSHR	19.81156349	43.15097974	46.66925472
CFL2	363.2119974	254.7567457	330.0183012

SUGT1	298.2740948	461.3835526	172.2317734
GTF2A1	1551.905807	1118.606167	404.4668742
ZCCHC24	435.8543969	129.4529392	493.3606928
PGM2L1	805.6702487	1268.80477	611.1450023
PHYHIPL	34.11991491	578.3890938	24.44580009
SLC16A9	310.3811614	32.3632348	181.1211552
FOLR2	112.2655265	58.08785734	126.6736914
INPPL1	1346.085675	2005.690731	2667.925728
PHOX2A	4.402569665	2.4894796	0
MBL2	0	0.829826533	0
GJB2	4.402569665	73.02473494	487.8048291
CRYL1	183.8072835	81.32300027	314.461883
REEP3	457.8672452	495.4064404	473.3595836
HEPACAM	2.201284833	4.149132667	2.222345463
SKA3	33.01927249	401.6360421	10.00055458
MICU2	508.4967963	678.7981043	580.0321658
DDIAS	40.7237694	468.0221648	31.11283648
PCF11	2835.254864	1529.370301	1520.084297
PKNOX2	133.1777324	4.149132667	122.2290005
RPL10L	0	4.149132667	12.22290005
LRR1	72.64239948	436.4887566	41.11339106
RPL36AL	2368.58248	2623.081672	1006.722495
DNAAF2	253.1477557	402.4658687	308.9060193
DEPP1	66.03854498	61.40716347	125.5625187
MAGEC3	2.201284833	2.4894796	12.22290005
ZNF22-AS	13.207709	14.9368776	11.11172731
ZNF22	224.5310529	377.5710727	116.6731368
KLHDC2	653.7815953	730.2473494	908.9392943
EML5	1031.301944	1146.820269	3421.30084
NEMF	2442.325522	1918.558945	1794.543961
RPUSD4	104.5610295	95.43005134	174.4541188
ARF6	780.3554732	1248.059106	543.3634657
TTC8	1448.44542	760.1211046	1097.838659
TMEM63C	42.92505424	107.8774493	42.22456379
NGB	1.100642416	50.61941854	4.444690926
NOXRED1	42.92505424	18.25618373	41.11339106
CDX2	4.402569665	2.4894796	5.555863657
AMER2	5.503212081	14.9368776	0
AKR1E2	33.01927249	4.149132667	5.555863657
KBTBD6	396.2312699	319.4832153	238.9021373
SSX5	0	1.659653067	0
SSX3	2.201284833	3.319306133	6.667036389
OTX2	0	2.4894796	0
FAAH2	127.6745203	286.290154	465.5813745

DRGX	0	0.829826533	2.222345463
NUDT5	453.4646755	1119.435994	337.7965104
DACT1	205.8201318	24.06496947	104.4502368
OXGR1	5.503212081	7.4684388	1.111172731
UCMA	2.201284833	0.829826533	4.444690926
BEND7	399.5331971	489.5976547	503.3612473
ATP5F1C	1161.177749	1836.406118	775.5985665
PRPF18	541.5160688	663.8612267	381.1322469
TAF3	609.7558986	554.3241243	236.6797918
VSTM4	173.9015018	34.02288787	65.55919115
VDAC2	392.9293426	1192.460728	846.7136214
SOHLH1	1.100642416	3.319306133	1.111172731
COMTD1	67.13918739	78.83352067	52.22511838
SLC18A2	34.11991491	4.9789592	14.44524551
PDZD8	2595.314818	4565.705587	3175.731666
ZNF503	416.0428334	250.6076131	478.9154472
ABRAXAS	292.7708827	387.5289911	260.0144192
QSOX2	221.2291257	1384.150658	462.2478563
FAM204A	236.6381195	702.8630738	267.7926283
NSD1	8196.484074	9163.774408	5601.421739
PRDX3	331.2933673	849.7423702	1271.181605
ENOX2	224.5310529	316.9937357	277.7931829
GHITM	819.9786001	1809.021843	1573.420588
CLEC1B	1.100642416	5.808785734	3.333518194
SNAPC4	369.8158519	375.0815931	906.7169489
TMEM52B	3.301927249	4.149132667	2.222345463
PMPCA	354.406858	651.4138287	593.3662386
ENTR1	210.2227015	230.6917763	328.9071285
FRMD7	19.81156349	12.447398	6.667036389
AK8	56.13276323	63.06681654	150.0083187
SPACA9	66.03854498	126.1336331	124.4513459
TSC1	2227.700251	1519.412383	3996.888315
GFI1B	4.402569665	2.4894796	0
HPRT1	358.8094277	1325.232974	361.1311377
BORCS5	0	0.829826533	0
DIPK1B	34.11991491	165.1354801	153.3418369
ZMYND19	119.9700234	344.3780113	178.8988098
STOX1	128.7751627	193.3495823	304.4613284
RET	585.5417655	1147.650096	222.2345463
DDX21	1292.154197	2120.206793	716.7064118
BMS1	869.5075089	913.6390132	411.1339106
STK32C	63.83726015	335.2499195	215.5675099
JCAD	456.7666028	528.5995018	1930.107035
FUNDC2	248.7451861	492.0871343	220.0122008

PIP4P1	8.80513933	14.9368776	16.66759097
METTL17	321.3875856	481.2993894	477.8042745
SLC39A2	3.301927249	1.659653067	13.33407278
NDRG2	629.5674621	307.8656439	752.2639392
RNASE7	2.201284833	4.149132667	6.667036389
ARHGEF4	465.5717421	716.1402983	771.1538756
NSMF	258.6509678	351.0166236	1222.290005
ZNF219	239.9400468	243.9690008	407.8003924
C12orf50	13.207709	9.128091867	0
CASP7	227.8329802	268.0339703	258.9032464
PPP1R36	11.00642416	14.9368776	13.33407278
BTNL9	8.80513933	106.2177963	165.564737
CCDC186	3952.406917	1606.544169	1647.869161
VWA2	361.0107125	119.4950208	356.6864468
METTL3	883.8158603	520.3012364	1115.617422
SALL2	926.7409145	597.475104	578.9209931
PRAP1	0	1.659653067	0
TRUB1	310.3811614	312.8446031	175.5652916
ERICH6B	7.704496914	2.4894796	10.00055458
CYP2C19	0	2.4894796	1.111172731
ZFYVE1	340.0985066	322.8025215	413.3562561
HSPA12A	82.54818122	149.368776	48.89160018
SHLD2P1	11.00642416	2.4894796	3.333518194
FRAT1	8.80513933	20.74566333	45.55808199
UBTD1	47.3276239	32.3632348	80.00443666
ANKRD2	0	1.659653067	2.222345463
E2F7	46.22698148	937.7039827	45.55808199
ARHGAP4	127.6745203	85.47213294	97.78320037
ISCA2	155.1905807	180.0723577	108.8949277
OTOGL	40.7237694	15.76670413	81.11560939
LARGE2	246.5439013	417.4027463	561.1422294
PACSIN3	168.3982897	199.158368	372.242865
TTC7B	676.895086	469.6818179	977.8320037
SLC39A13	130.9764475	62.23699	302.238983
PSMC3	427.0492575	1165.906279	888.9381852
RAPSN	5.503212081	6.638612267	34.44635467
AGBL2	1.100642416	0.829826533	1.111172731
TC2N	467.7730269	272.1831029	401.133356
CPSF2	1608.03857	2257.957997	1031.168295
SMCO2	1.100642416	13.27722453	4.444690926
MOAP1	7.704496914	6.638612267	27.77931829
IFI27L1	9.905781747	25.72462253	16.66759097
IFI27	0	11.61757147	11.11172731
SERPINA1	13.207709	4.9789592	1.111172731

CLMN	2711.982914	1663.802199	1444.524551
PDZRN4	208.0214167	57.2580308	27.77931829
SLC6A5	2.201284833	228.2022967	10.00055458
CCDC38	14.30835141	9.128091867	4.444690926
NELL1	208.0214167	2731.788948	42.22456379
PTER	226.7323378	131.9424188	55.55863657
C1QL3	19.81156349	12.447398	17.7787637
CACNB2	543.7173537	107.8774493	411.1339106
HACD1	133.1777324	50.61941854	47.78042745
ARL5B	224.5310529	711.1613391	168.8982552
SMCO4	44.02569665	60.57733694	58.89215477
CEP295	1534.295528	2867.050673	906.7169489
KCNC2	253.1477557	80.49317374	340.0188558
TRIM51HI	1.100642416	0	0
TAF1D	769.349049	522.790716	337.7965104
TRIM53BI	0	1.659653067	0
ABTB2	140.8822293	224.8829905	136.674246
R3HCC1L	294.9721676	312.0147765	228.9015827
AMOTL1	3232.586777	2391.560069	5930.328868
HTRA1	811.1734608	333.5902664	957.8308945
LIPC	19.81156349	4.9789592	10.00055458
CEP57	479.8800935	854.7213294	340.0188558
TCP11L2	242.1413316	244.7988273	506.6947655
PASD1	0	6.638612267	0
SPRED1	480.9807359	324.4621745	327.7959558
TMCO5A	7.704496914	2.4894796	11.11172731
GPR176	117.7687385	32.3632348	145.5636278
JAM3	259.7516102	75.51421454	380.0210742
IL25	1.100642416	0	2.222345463
CMTM5	2.201284833	0.829826533	22.22345463
ENSG0000	1.100642416	0	0
GLB1L3	115.5674537	41.49132667	18.88993643
ADAMTS1	48.42826632	20.74566333	83.33795486
SVOP	6.603854498	34.8527144	22.22345463
SPATA19	7.704496914	2.4894796	0
GPT2	411.6402637	790.8246863	348.9082377
AMN	8.80513933	4.9789592	5.555863657
RAB8B	409.4389789	196.6688884	142.2301096
IKBIP	204.7194894	316.9937357	74.44857301
RPUSD2	48.42826632	93.77039827	95.5608549
HIF1AN	487.5845904	536.0679406	426.6903289
NDUFB8	29.71734524	51.44924507	45.55808199
ZFYVE19	105.661672	163.4758271	65.55919115
PPP1R14D	2.201284833	0	8.889381852

SPINT1	533.8115719	601.6242367	940.0521308
FBN1	3913.884432	1859.641261	3319.072949
AVPR1A	96.85653263	117.0055412	6.667036389
C16orf78	0	0	11.11172731
DEPDC4	44.02569665	95.43005134	55.55863657
LRTM2	0	0.829826533	0
BRD7	908.0299934	2238.04216	756.7086301
CKB	1349.387602	3056.251122	1154.508468
TRMT61A	110.0642416	81.32300027	170.0094279
BTRC	680.1970133	491.2573078	466.6925472
POLL	123.2719506	86.30195947	174.4541188
BAG5	1386.809445	1696.165434	671.1483298
DPCD	84.74946605	131.9424188	78.89326393
LARP6	429.2505424	165.9653067	408.9115652
API5	1056.61672	2007.350384	573.3651294
ASPG	7.704496914	4.149132667	18.88993643
ZNF319	139.7815869	108.7072759	105.5614095
HPS6	83.64882364	54.7685512	185.5658462
SENP8	88.0513933	50.61941854	25.55697282
NOLC1	718.7194978	754.3123188	390.0216287
ALKBH3	373.1177791	310.3551235	276.6820101
COPS2	653.7815953	528.5995018	291.1272556
GABRB3	5.503212081	6.638612267	44.44690926
SPIC	2.201284833	5.808785734	11.11172731
TBATA	5.503212081	7.4684388	6.667036389
SGPL1	975.1691808	2402.347814	2101.227635
FRS2	536.0128567	370.9324604	286.6825647
CCT2	960.8608294	2104.440089	714.4840663
PCBD1	373.1177791	985.0040951	456.6919926
ARIH1	917.9357752	775.8878087	410.0227379
DNAAF8	6.603854498	11.61757147	20.00110917
CLMP	300.4753796	31.53340827	141.1189369
SCN3B	4.402569665	0.829826533	1.111172731
COX11	224.5310529	319.4832153	394.4663197
ZNF202	154.0899383	135.2617249	172.2317734
FAM227B	17.61027866	19.08601027	30.00166375
STXBP4	464.4710997	488.7678282	351.1305831
CYYR1	42.92505424	32.3632348	50.00277291
CUL5	727.5246372	660.5419206	395.5774924
MYRFL	92.45396297	31.53340827	70.00388208
WBP1L	376.4197064	108.7072759	372.242865
BORCS7	7.704496914	19.08601027	1.111172731
PLEKHF1	84.74946605	24.06496947	21.1122819
TMEM100	23.11349074	4.9789592	92.22733671

ANAPC16	250.9464709	503.7047058	481.1377927
SMPD1	586.6424079	344.3780113	895.6052215
APBB1	149.6873686	139.4108576	330.0183012
SYNPO2L	12.10706658	9.128091867	33.33518194
NUDT13	29.71734524	6.638612267	10.00055458
C11orf65	24.21413316	23.23514293	26.66814555
TRIM44	758.3426248	574.2399611	407.8003924
CCDC182	0	0	6.667036389
ILK	1015.89295	434.8291035	580.0321658
TAF10	58.33404806	48.12993894	77.7820912
TPP1	589.9443351	629.8383388	1058.947613
DCHS1	1169.982889	645.605043	976.7208309
NETO1	58.33404806	20.74566333	25.55697282
MSS51	101.2591023	38.17202053	76.67091847
CYB5A	898.1242117	550.1749916	270.0149737
USP54	2071.409027	1477.091229	7329.295337
RAG1	33.01927249	13.27722453	35.55752741
POTED	1.100642416	0.829826533	1.111172731
IFTAP	50.62955115	13.27722453	23.33462736
WDR88	5.503212081	6.638612267	8.889381852
OR10A5	0	0.829826533	0
OR2D2	5.503212081	30.70358173	0
ATP9B	690.102795	535.238114	600.033275
PPFIBP2	1051.113508	160.9863475	296.6831193
MOGAT2	2.201284833	3.319306133	11.11172731
CYB5R2	190.411138	83.81247987	61.11450023
SERPINB7	2.201284833	0	3.333518194
GARRE1	523.9057902	641.4559103	702.2611663
SERPINB8	45.12633907	59.7475104	30.00166375
TUB	99.05781747	87.131786	206.678128
RIC3	112.2655265	182.5618373	76.67091847
LMO1	2.201284833	7.4684388	12.22290005
OR5P1P	0	0.829826533	2.222345463
IDH3A	780.3554732	682.1174104	333.3518194
WDR72	12.10706658	1069.646402	23.33462736
CRABP1	11.00642416	1653.844281	180.0099825
PLD4	24.21413316	8.298265334	3.333518194
ZMAT1	1127.057834	44.8106328	430.0238471
XRRA1	287.2676707	267.2041437	387.7992833
TRIM66	465.5717421	486.2783486	518.9176656
RNF169	735.2291341	576.7294407	591.1438931
RPL27A	3600.201344	1781.637567	1137.840877
DENND2B	1288.852269	290.4392867	474.4707563
CDYL2	386.3254881	244.7988273	291.1272556

TMEM130	60.5353329	1.659653067	1.111172731
PRTG	88.0513933	403.2956952	154.4530097
AKIP1	73.74304189	95.43005134	133.3407278
ATMIN	0	0.829826533	0
C16orf46	0	0.829826533	0
TMEM41E	203.618847	287.1199805	238.9021373
PKD1L2	1.100642416	0	0
LEO1	997.1820292	709.501686	431.1350198
ZNF143	301.5760221	288.7796336	112.2284459
TMX3	282.865101	320.3130419	134.4519005
MFAP4	1710.398315	21.57548987	260.0144192
WEE1	308.1798766	756.8017984	142.2301096
MAPK7	263.0535375	532.7486344	455.5808199
FAM86GP	9.905781747	0.829826533	1.111172731
PRKCB	208.0214167	126.9634596	110.0061004
HDGFL3	641.6745287	1043.921779	400.0221833
NDST2	9.905781747	2.4894796	3.333518194
MCM7	469.9743118	1922.708078	456.6919926
CLEC3A	0	0.829826533	0
CCDC68	62.73661773	1.659653067	58.89215477
CLEC4E	16.50963624	30.70358173	67.78153662
ZNF3	402.8351244	295.4182459	373.3540378
CLEC4D	12.10706658	3.319306133	0
ZSCAN21	209.1220591	170.9442659	114.4507913
RIMKLB	376.4197064	754.3123188	600.033275
A2ML1	108.9635992	19.9158368	91.11616398
BEAN1	3.301927249	14.10705107	32.22400921
TK2	90.25267814	78.00369414	113.3396186
TMED3	725.3233523	370.1026339	708.9282027
SLC38A8	7.704496914	26.55444907	20.00110917
SEC11C	488.6852328	3980.677881	200.0110917
CPLX4	1.100642416	0.829826533	0
GALR1	5.503212081	3.319306133	0
TMEM135	446.860821	276.3322356	861.1588669
IQCD	77.04496914	183.3916639	83.33795486
NDEL1	917.9357752	773.3983291	424.4679834
CENPV	52.83083598	501.2152262	64.44801842
CDH16	1.100642416	2.4894796	5.555863657
RRAD	104.5610295	5.808785734	22.22345463
CIAO2B	118.869381	235.6707355	246.6803464
CFAP52	7.704496914	16.59653067	27.77931829
HSP90B1	6462.972269	12980.14663	5764.764131
MC4R	1.100642416	0	0
BLCAP	347.8030036	432.3396239	254.4585555

SERPINB1	2.201284833	1.659653067	3.333518194
CHRFAM7	0	4.149132667	1.111172731
ATF7IP2	47.3276239	10.78774493	14.44524551
MMP10	366.5139246	3.319306133	30.00166375
TVP23A	12.10706658	2.4894796	6.667036389
BEX3	742.933631	930.2355439	1065.614649
TMPRSS5	5.503212081	24.06496947	32.22400921
COG1	708.8137161	611.5821551	1168.953713
PLEKHA7	409.4389789	274.6725825	620.0343841
ZNF606	672.4925164	838.1247987	784.4879484
ZCCHC18	5.503212081	15.76670413	15.55641824
B2M	183.8072835	121.1546739	3.333518194
ZNF592	1332.877966	774.2281556	1053.391749
GOLM2	1587.126364	975.0461767	808.9337485
HTR3A	3.301927249	22.4053164	16.66759097
NNMT	138.6809445	78.00369414	104.4502368
ACSM1	322.488228	11.61757147	86.67147305
AP1G1	1468.256983	1172.544892	1227.845868
SLFN5	887.1177875	335.2499195	700.0388208
CATSPER1	198.1156349	126.1336331	60.0033275
ZNF667-A	36.32119974	92.1107452	4.444690926
BMERB1	37.42184215	3.319306133	1.111172731
MARF1	106.7623144	43.15097974	104.4502368
SAAL1	130.9764475	314.5042561	127.7848641
YPEL4	9.905781747	1.659653067	2.222345463
PPIB	1839.173478	1813.170975	1667.87027
LDHC	4.402569665	1.659653067	0
CIAO2A	213.5246288	299.5673785	181.1211552
LDHAL6A	3.301927249	4.149132667	12.22290005
FAM111A	2376.286977	2290.321232	1281.182159
PCLAF	0	13.27722453	0
KIF7	146.3854414	38.17202053	386.6881105
LDHD	29.71734524	8.298265334	124.4513459
PLIN1	62.73661773	9.128091867	84.44912759
PEX11A	288.3683131	63.06681654	398.9110106
TMEM170	36.32119974	58.08785734	38.8910456
MESP1	86.95075089	15.76670413	5.555863657
ANPEP	2896.89084	177.5828781	432.2461925
SCNN1G	25.31477557	82.1528268	97.78320037
RBPMS2	144.1841565	45.64045934	91.11616398
NAV2	847.4946605	1204.0783	458.9143381
ANKDD1A	48.42826632	42.3211532	38.8910456
GLYATL1	162.8950776	32.3632348	27.77931829
C18orf54	31.91863007	175.0933985	30.00166375

DCTN5	347.8030036	469.6818179	431.1350198
TERF2IP	655.9828801	379.2307257	382.2434196
PLK1	108.9635992	1322.743494	90.00499125
CLPX	1273.443276	874.6371662	636.7019751
GPR182	0	4.149132667	3.333518194
ZBTB39	391.8287002	302.0568581	170.0094279
CACNG2	3.301927249	13.27722453	12.22290005
TAC3	0	1.659653067	5.555863657
MYO1A	13.207709	11.61757147	35.55752741
CHP2	9.905781747	2.4894796	5.555863657
NEMP1	183.8072835	341.0587052	84.44912759
OR4D6	6.603854498	0.829826533	15.55641824
NAB2	102.3597447	61.40716347	68.89270935
VPS39	1116.05141	703.6929003	1105.616868
STAT6	937.7473387	146.0494699	500.0277291
PATL1	1039.006441	1998.222292	1011.167186
ATP23	1.100642416	0	1.111172731
ELFN2	543.7173537	139.4108576	1044.502368
STX3	342.2997915	577.5592672	391.1328015
MRPL16	303.7773069	544.3662059	471.1372381
PIP4K2C	489.7858753	582.5382264	455.5808199
MTMR10	73.74304189	75.51421454	24.44580009
YWHAB	1321.871542	2225.594762	1054.502922
C15orf48	26.41541799	4.149132667	84.44912759
NYAP1	24.21413316	14.9368776	24.44580009
TSC22D4	278.4625313	82.1528268	316.6842285
MS4A6E	0	2.4894796	1.111172731
MS4A7	334.5952946	107.0476228	196.6775735
MS4A14	237.7387619	23.23514293	91.11616398
MS4A5	1.100642416	2.4894796	13.33407278
DIS3L	452.3640331	385.869338	312.2395375
CCNDBP1	219.0278408	214.9250721	317.7954012
EPB42	0	1.659653067	8.889381852
TGM6	4.402569665	3.319306133	15.55641824
SMAD3	1900.809453	251.4374396	916.7175034
MS4A8	69.34047223	122.8143269	61.11450023
CCDC178	36.32119974	11.61757147	0
MS4A15	5.503212081	3.319306133	12.22290005
MAP1A	680.1970133	543.5363794	527.8070474
RCCD1	63.83726015	73.85456147	45.55808199
AKTIP	311.4818038	241.4795212	275.5708374
MAPRE2	310.3811614	554.3241243	96.67202764
EVA1C	268.5567496	87.131786	262.2367646
TCP10L2	0	1.659653067	0

MARS1	914.6338479	810.7405231	957.8308945
MBD6	1047.81158	436.4887566	1453.413933
CNPY4	105.661672	82.1528268	57.78098203
PDIA3	4287.002211	6558.119093	2543.474382
NUDT21	46.22698148	130.2827657	40.00221833
NAT16	7.704496914	4.9789592	0
TERB2	2.201284833	0	2.222345463
NKX3-1	2422.513958	9.9579184	1293.405059
SGSM1	255.3490406	98.74935747	390.0216287
ENSG0000	1.100642416	0.829826533	0
DUSP18	75.94432672	55.59837774	80.00443666
TEF	222.3297681	102.8984901	144.4524551
MEI1	20.91220591	17.4263572	55.55863657
B4GALNT	2.201284833	9.128091867	34.44635467
PBX3	1050.012865	1464.643831	1527.862506
GNGT2	2.201284833	3.319306133	10.00055458
PHB1	410.5396213	494.5766139	592.2550659
SNRPD1	219.0278408	673.8191451	86.67147305
TTC16	5.503212081	7.4684388	20.00110917
SUN5	5.503212081	0.829826533	18.88993643
SAMD14	24.21413316	29.8737552	17.7787637
PIP5KL1	11.00642416	43.98080627	11.11172731
BPIFB6	4.402569665	0.829826533	27.77931829
EEIG1	648.2783832	466.3625118	1024.501258
ACSF2	293.8715252	106.2177963	292.2384284
GOLGA2	1284.4497	892.0635234	1480.082078
TRUB2	148.5867262	302.8866847	372.242865
COQ4	206.9207743	224.053164	261.1255919
SLC27A4	158.4925079	283.8006744	521.140011
ANKRD40	0	0.829826533	0
URM1	89.15203572	142.7301637	192.2328825
CERCAM	455.6659603	168.4547863	793.3773302
DOLPP1	81.44753881	142.7301637	171.1206006
CCDC103	12.10706658	43.98080627	57.78098203
ENDOG	97.95717505	63.06681654	50.00277291
TBC1D21	1.100642416	0	12.22290005
PRRX2	92.45396297	18.25618373	44.44690926
UGT1A6	16.50963624	1.659653067	18.88993643
C15orf39	709.9143585	375.9114196	215.5675099
ISLR2	18.71092108	94.6002248	21.1122819
SP2	703.310504	602.4540632	566.698093
PRR15L	260.8522527	192.5197557	47.78042745
COQ7	249.8458285	313.6744296	223.345719
GPRC5B	132.07709	72.1949084	211.122819

CRK	50.62955115	80.49317374	122.2290005
C16orf92	0	0.829826533	12.22290005
GOLGA6C	1.100642416	0	0
FBXO22	332.3940097	350.1867971	237.7909645
TBC1D2B	998.2826716	452.2554607	808.9337485
NOD2	42.92505424	10.78774493	24.44580009
SNX20	22.01284833	9.128091867	17.7787637
LOXHD1	26.41541799	20.74566333	107.7837549
KATNAL2	36.32119974	34.02288787	46.66925472
HDHD2	17.61027866	52.2790716	1.111172731
ZNF91	4393.764526	2133.484017	2257.90299
IGF2	15.40899383	1027.325248	41.11339106
RNF214	383.0235609	328.6113072	310.0171921
CDK12	3163.246304	2497.777865	2539.029691
DPEP2	59.43469048	18.25618373	54.44746384
DUS2	72.64239948	92.1107452	66.67036389
POP5	122.1713082	231.5216028	148.897146
ENGASE	181.6059987	138.5810311	576.6986476
RBFOX3	92.45396297	151.8582556	8.889381852
ATP5MG	93.55460539	105.3879697	66.67036389
CD3D	127.6745203	0.829826533	6.667036389
TBC1D16	690.102795	638.9664307	796.7108484
TEPSIN	97.95717505	102.0686636	452.2473017
MYO5B	1075.327641	698.7139411	2391.243718
ART5	2.201284833	2.4894796	7.77820912
ACAA2	97.95717505	555.9837774	63.33684569
STIM1	564.6295596	401.6360421	1045.61354
RRM1	421.5460454	2093.652344	238.9021373
OR51E2	1144.668113	1.659653067	1944.55228
TRIM68	231.1349074	107.0476228	203.3446099
MMP26	31.91863007	5.808785734	2.222345463
OR51B5	5.503212081	9.9579184	6.667036389
OR51I1	1.100642416	2.4894796	0
OR51Q1	0	0	1.111172731
FN3K	239.9400468	131.1125923	282.2378738
PRRT2	37.42184215	5.808785734	3.333518194
ZNF23	7.704496914	3.319306133	3.333518194
IRGQ	170.5995745	329.4411337	346.6858922
ZNF226	390.7280578	389.1886441	375.5763832
ZNF180	309.280519	867.9985539	366.6870014
ZNF668	106.7623144	161.816174	287.7937374
ZNF646	668.0899467	601.6242367	817.8231303
VKORC1	8.80513933	29.04392867	23.33462736
GNG8	1.100642416	8.298265334	2.222345463

LPO	5.503212081	3.319306133	13.33407278
CA4	4.402569665	16.59653067	18.88993643
SMG8	245.4432588	336.9095725	303.3501557
LINC0090	2.201284833	1.659653067	0
TPM4	1678.479685	407.4448279	734.4851755
RAB8A	823.2805274	744.3544004	502.2500746
GPX4	1548.60388	3406.437919	3091.282539
MIDN	474.3768814	298.737552	597.8109295
JSRP1	4.402569665	2.4894796	13.33407278
NIBAN3	29.71734524	14.10705107	66.67036389
KLHL26	47.3276239	66.38612267	174.4541188
GATAD2A	871.7087937	872.1476866	1126.72915
MVD	167.2976473	189.2004496	217.7898554
CDT1	12.10706658	202.4776741	5.555863657
TRAPPC2I	105.661672	208.2864599	154.4530097
ANKRD11	3982.124262	2761.662703	2944.607738
SPATA33	34.11991491	94.6002248	13.33407278
RSKR	156.2912231	163.4758271	282.2378738
PROCA1	36.32119974	37.342194	24.44580009
RPL13	1237.122076	690.4156758	1398.966469
ZNF641	297.1734524	244.7988273	218.9010281
LALBA	1.100642416	1.659653067	1.111172731
CACNB3	223.4304105	216.5847252	212.2339917
DHRS13	73.74304189	146.8792964	612.256175
TP53I13	61.63597531	82.1528268	340.0188558
KMT2D	13553.31071	6154.823398	11919.54989
CORO6	45.12633907	13.27722453	114.4507913
RHEBL1	5.503212081	20.74566333	14.44524551
TUBA1A	1873.293393	6654.378971	2176.787381
TUBA1C	837.5888788	2407.326773	1925.662344
ZNF610	223.4304105	291.2691132	126.6736914
ZNF528	419.3447606	253.0970927	476.6931018
ZNF701	336.7965794	335.2499195	426.6903289
SERTAD3	53.9314784	122.8143269	228.9015827
NCKAP5L	344.5010763	197.4987149	435.5797107
RAB4B	4.402569665	9.9579184	4.444690926
AQP2	4.402569665	0.829826533	0
GPD1	12.10706658	9.128091867	6.667036389
PROSER3	116.6680961	405.7851748	197.7887462
CYP2S1	25.31477557	13.27722453	17.7787637
AXL	722.0214251	190.8601027	310.0171921
NFKBID	27.51606041	36.51236747	35.55752741
TMC4	17.61027866	4.9789592	10.00055458
ANKRD33	6.603854498	0.829826533	1.111172731

LAIR1	8.80513933	1.659653067	0
LENG8	9.905781747	4.149132667	17.7787637
CDC42EP5	0	0.829826533	8.889381852
TMEM145	61.63597531	108.7072759	55.55863657
ZNF526	453.4646755	276.3322356	501.1389019
TRAPPC9	1766.531078	3267.856888	3602.421995
ZNF146	661.4860922	1385.810311	538.9187747
ZNF283	202.5182046	296.2480724	186.6770189
PPP1R14A	141.9828717	18.25618373	16.66759097
SPINT2	1630.051419	3023.887888	4568.031099
C19orf33	2.201284833	1.659653067	1.111172731
YIF1B	89.15203572	180.9021843	312.2395375
DNAAF3	14.30835141	59.7475104	137.7854187
PSCA	5.503212081	2.4894796	4.444690926
ATCAY	24.21413316	32.3632348	18.88993643
LY6D	1.100642416	4.149132667	2.222345463
DAPK3	269.657392	341.8885317	448.9137835
EEF2	19077.435	14804.93518	28550.47216
TMIGD2	0	3.319306133	0
CHAF1A	399.5331971	1448.047301	446.691438
UBXN6	834.2869516	521.9608895	1623.423361
HDGFL2	366.5139246	524.4503691	491.1383473
PLIN4	347.8030036	166.7951332	1288.960368
SEMA6B	59.43469048	91.28091867	170.0094279
ZNF444	132.07709	117.8353677	131.1183823
NXN	350.0042884	363.4640216	430.0238471
TLCD3A	94.6552478	192.5197557	71.11505481
GLOD4	440.2569665	876.2968192	677.8153662
MFSD3	58.33404806	86.30195947	303.3501557
GPT	11.00642416	19.08601027	14.44524551
KIFC2	252.0471133	493.7467874	2155.675099
SLC43A2	1.100642416	0.829826533	0
SERPINF2	11.00642416	0.829826533	3.333518194
WDR81	103.4603871	81.32300027	166.6759097
SRR	189.3104956	669.6700124	218.9010281
TSR1	1282.248415	1906.111547	826.7125122
TRPV3	11.00642416	9.128091867	38.8910456
HSD11B1I	24.21413316	29.8737552	71.11505481
CYB5D2	42.92505424	58.08785734	105.5614095
GGT6	89.15203572	56.42820427	67.78153662
C19orf48P	188.2098532	287.9498071	290.0160829
KLK1	18.71092108	70.53525534	30.00166375
KLK4	3087.301978	9.128091867	7701.538202
KLK2	6087.653205	8.298265334	1181.176614

KLK5	13.207709	1.659653067	10.00055458
KLK6	7.704496914	1.659653067	2.222345463
KLK11	220.1284833	466.3625118	47.78042745
KLK13	5.503212081	2.4894796	2.222345463
ZNF83	2197.982905	866.3389008	2061.225417
KRT80	220.1284833	37.342194	5.555863657
KRT1	3.301927249	2.4894796	33.33518194
ACER1	5.503212081	0	0
OTUB1	604.2526865	638.1366042	985.6102128
RCOR2	27.51606041	170.1144393	27.77931829
ANGPTL4	5.503212081	44.8106328	76.67091847
CD320	94.6552478	350.1867971	427.8015016
SPRYD3	375.319064	112.026582	552.2528475
IGFBP6	161.7944352	35.68254093	1256.736359
SOAT2	6.603854498	3.319306133	4.444690926
CABP2	2.201284833	0	14.44524551
NDUFV1	659.2848074	739.3754412	1165.620195
CDK2AP2	80.34689639	258.9058784	157.7865279
C3P1	0	1.659653067	0
NUDT8	71.54175706	82.98265334	120.006655
TBX10	2.201284833	13.27722453	7.77820912
PRDX2	933.344769	1295.359219	994.4995946
OR8J3	5.503212081	3.319306133	2.222345463
OR5I1	4.402569665	1.659653067	1.111172731
ZNF232	151.8886534	554.3241243	178.8988098
MIS12	96.85653263	362.6341951	65.55919115
TEKT1	2.201284833	1.659653067	4.444690926
HID1	1081.931495	248.1181335	1567.864724
MRPL58	118.869381	235.6707355	94.44968217
ATP5PD	525.0064326	1131.053565	515.5841474
TMEM88	63.83726015	39.00184707	80.00443666
EVPL	609.7558986	159.3266944	800.0443666
SRP68	922.3383449	936.0443296	920.0510216
MGAT5B	16.50963624	223.2233375	31.11283648
TMC8	80.34689639	6.638612267	22.22345463
TK1	36.32119974	243.1391743	18.88993643
TMEM68	341.1991491	719.4596044	224.4568918
CYP7A1	22.01284833	2.4894796	25.55697282
TOX-DT	0	0.829826533	0
GSDMA	3.301927249	21.57548987	13.33407278
KRT24	6.603854498	0.829826533	17.7787637
KRT10-AS	37.42184215	117.8353677	274.4596647
GHDC	88.0513933	11.61757147	88.89381852
FAM234A	650.479668	814.8896558	2234.568363

SOST	2.201284833	4.149132667	0
RAB26	5.503212081	14.9368776	52.22511838
MLST8	412.7409061	378.4008992	746.7080755
E4F1	245.4432588	287.9498071	535.5852566
DNASE1L	24.21413316	12.447398	12.22290005
ECI1	172.8008594	677.9682778	444.4690926
CASKIN1	83.64882364	80.49317374	208.9004735
ABCA3	1160.077107	1095.371024	1283.404505
KCTD5	148.5867262	307.0358173	136.674246
SRRM2	33543.17828	23211.90779	45614.7518
ZNF597	95.75589022	168.4547863	182.232328
NLRC3	88.0513933	12.447398	21.1122819
SDHAF2	31.91863007	41.49132667	65.55919115
DDB1	2829.751652	3738.368533	4479.13728
VPS37C	514.0000084	481.2993894	778.9320847
VWCE	24.21413316	32.3632348	51.11394565
RAB3IL1	89.15203572	39.8316736	340.0188558
BEST1	69.34047223	19.08601027	63.33684569
FTH1	7804.655374	9313.143184	5059.169446
BSCL2	11.00642416	46.47028587	11.11172731
POLR2G	135.3790172	258.9058784	258.9032464
SLC3A2	353.3062156	549.3451651	1775.654025
PLAAT5	0	2.4894796	15.55641824
SPINDOC	155.1905807	467.1923383	190.0105371
ATG16L2	266.3554647	164.3056536	523.3623565
C2CD3	2387.293401	4006.402503	2894.604965
TRANK1	1745.618872	267.2041437	475.5819291
TTC21A	194.8137077	55.59837774	176.6764643
RPSA	886.0171451	1189.971249	748.930421
ENTPD3	84.74946605	112.8564085	17.7787637
CTNNB1	3953.507559	3383.202777	5390.29892
ULK4	526.107075	452.2554607	611.1450023
FADD	114.4668113	101.2388371	143.3412824
LTBP3	1590.428292	413.2536136	3191.288085
NAALADI	6.603854498	29.8737552	35.55752741
SAC3D1	55.03212081	176.7530516	71.11505481
BATF2	12.10706658	3.319306133	3.333518194
SLC22A11	5.503212081	0.829826533	7.77820912
SF1	3347.053588	3771.561594	4370.242353
MAP4K2	168.3982897	299.5673785	570.0316112
MAJIN	8.80513933	4.9789592	10.00055458
CCDC88B	121.0706658	133.6020719	141.1189369
SCARA3	227.8329802	51.44924507	450.0249562
PBK	8.80513933	517.8117568	2.222345463

SCARA5	3.301927249	34.8527144	833.3795486
PNOC	1.100642416	0	0
COPS6	456.7666028	424.0413586	382.2434196
PAFAH1B	434.7537544	843.9335844	554.475193
ANKS3	171.7002169	146.8792964	434.468538
NUDT16L	66.03854498	54.7685512	182.232328
KIAA1586	342.2997915	455.5747668	72.22622754
RAB4A	957.5589022	515.3222772	606.7003114
ZNF355P	0	0.829826533	0
OR1F1	5.503212081	3.319306133	13.33407278
OR2W6P	2.201284833	2.4894796	0
DHFRP3	1.100642416	0	0
OR2B2	2.201284833	0.829826533	16.66759097
KCNJ4	9.905781747	1.659653067	22.22345463
SETD5	4491.721701	4390.612188	3965.775479
VASN	6.603854498	0.829826533	0
FAM83B	111.164884	5.808785734	22.22345463
THAP9	228.9336226	242.3093477	294.4607738
OR2C1	2.201284833	0.829826533	1.111172731
RNF187	88.0513933	97.0897044	13.33407278
HOOK3	1681.781612	1887.855363	916.7175034
MAPK1IP1	560.2269899	1887.025537	1018.945395
DDIT4	130.9764475	243.9690008	328.9071285
RBPJ	903.6274238	119.4950208	380.0210742
LMBRD1	860.7023695	575.0697876	897.827567
ZCCHC4	138.6809445	111.1967555	256.680901
PTGDR	24.21413316	2.4894796	342.2412013
TTC39C	256.449683	256.4163988	90.00499125
GLYCTK	51.73019357	24.894796	113.3396186
GNG4	86.95075089	286.290154	300.0166375
UBTD2	272.9593192	776.7176352	226.6792372
POLR2J3	0	0.829826533	0
NKIRAS2	235.5374771	326.1218276	343.352374
DNAJC7	1099.541774	1689.526822	763.3756665
KCNV2	7.704496914	3.319306133	0
IRF2BP2	1039.006441	1458.005219	2123.45109
PTF1A	3.301927249	45.64045934	1.111172731
NT5DC2	576.7366261	1143.500963	470.0260654
FOXI1	7.704496914	58.08785734	4.444690926
UQCC5	106.7623144	117.0055412	32.22400921
COA6	59.43469048	102.8984901	104.4502368
KIF5C	269.657392	542.7065528	283.3490465
MGAT2	627.3661773	916.9583194	894.4940488
BMI1	42.92505424	60.57733694	10.00055458

THAP11	96.85653263	84.6423064	204.4557826
MMADHC	315.8843735	479.6397363	435.5797107
PDHB	398.4325547	681.2875839	380.0210742
PXK	444.6595362	165.9653067	172.2317734
H1-4	676.895086	3164.128572	683.3712298
PCMTD1	1434.137068	1046.411259	750.0415937
KCTD6	177.203429	226.5426436	85.56030032
MPLKIP	200.3169198	346.0376644	101.1167186
ACOX2	129.8758051	43.98080627	107.7837549
FAM107A	48.42826632	14.9368776	251.1250373
IRF2	385.2248457	291.2691132	268.903801
MOBP	1.100642416	0.829826533	2.222345463
CX3CR1	55.03212081	12.447398	42.22456379
PPDPFL	2.201284833	3.319306133	0
XIRP1	8.80513933	9.9579184	18.88993643
INSM2	2.201284833	4.149132667	6.667036389
DEGS2	47.3276239	68.04577574	87.78264578
SCN11A	15.40899383	16.59653067	56.6698093
LINC0091	2.201284833	2.4894796	0
ARF4	879.4132906	636.4769511	1013.389531
SEPTIN2	4011.841607	4360.738433	2775.709483
FILIP1L	5641.893026	435.65893	338.9076831
MFSD2A	7.704496914	159.3266944	18.88993643
DTYMK	68.23982981	439.8080627	167.7870824
ING5	236.6381195	402.4658687	481.1377927
ATG4B	969.6659688	752.6526658	1574.53176
BDKRB2	22.01284833	27.3842756	38.8910456
MLKL	118.869381	36.51236747	46.66925472
CMAHP	36.32119974	13.27722453	6.667036389
RFWD3	246.5439013	850.5721967	162.2312188
MTNR1A	1.100642416	2.4894796	3.333518194
KCNG4	0	2.4894796	8.889381852
RHOH	29.71734524	24.894796	77.7820912
KLHL30	7.704496914	1.659653067	22.22345463
COG7	895.9229269	483.788869	1472.303869
CDC40	346.7023611	308.6954704	248.9026918
STIP1	1175.486101	2980.736908	915.6063307
SCNN1B	24.21413316	146.8792964	155.5641824
HR	115.5674537	34.02288787	30.00166375
TXNDC2	6.603854498	6.638612267	42.22456379
RAB31	341.1991491	205.7969803	135.5630732
REEP4	59.43469048	131.9424188	127.7848641
TNXB	2.201284833	0	0
LGI3	2.201284833	24.894796	8.889381852

SFTPC	3.301927249	107.8774493	1.111172731
BMP1	569.0321292	441.4677158	1385.632396
ATXN2L	2513.867279	3379.053644	2897.938484
PHYHIP	31.91863007	0	2.222345463
CCDC110	114.4668113	201.6478476	35.55752741
POLR3D	126.5738779	179.2425312	157.7865279
FEN1	80.34689639	971.7268706	64.44801842
CAVIN2	253.1477557	95.43005134	186.6770189
MTCL1	403.9357668	882.105605	285.571392
GBX2	1.100642416	18.25618373	12.22290005
HJV	1.100642416	4.9789592	0
SCGB1D1	0	30.70358173	1.111172731
HEXIM2	13.207709	26.55444907	31.11283648
FNTA	330.1927249	436.4887566	231.1239281
SERINC2	672.4925164	307.0358173	805.6002303
MYL1	2.201284833	1.659653067	0
TRAPPC11	1099.541774	971.7268706	877.8264578
CHRM1	177.203429	4.149132667	61.11450023
COL3A1	134.2783748	87.131786	37.77987287
GFRA2	45.12633907	30.70358173	30.00166375
ING2	220.1284833	522.790716	58.89215477
CDKN2AIP	177.203429	225.7128171	108.8949277
SNRNP48	162.8950776	159.3266944	27.77931829
TMEM223	143.0835141	193.3495823	188.8993643
SLC20A2	541.5160688	512.0029711	918.9398489
CRYGA	0	0.829826533	0
DYNLRB2	8.80513933	4.149132667	6.667036389
TMUB2	209.1220591	176.7530516	358.9087923
ADAM29	15.40899383	31.53340827	34.44635467
STAT3	3422.997915	1131.053565	3233.512648
ZSWIM1	604.2526865	261.395358	214.4563372
ADAM9	3981.02362	2169.166558	4404.688707
ADAM18	1.100642416	1.659653067	0
GDNF	77.04496914	7.4684388	7.77820912
WFDC13	2.201284833	0	4.444690926
AXIN2	362.111355	174.263572	348.9082377
NDUFS5	405.0364092	827.3370538	376.687556
VWA3B	13.207709	14.9368776	55.55863657
ZNF30	126.5738779	179.2425312	178.8988098
UGT3A2	2.201284833	2.4894796	1.111172731
LRATD2	222.3297681	960.9391256	491.1383473
LDLRAD4	708.8137161	145.2196433	188.8993643
KCTD19	2.201284833	1.659653067	20.00110917
SLC16A4	113.3661689	15.76670413	98.8943731

IL7R	391.8287002	11.61757147	24.44580009
TMEM208	39.62312699	52.2790716	86.67147305
LRP1B	285.0663858	22.4053164	530.0293929
WFDC12	0	0	8.889381852
AHCYL1	2188.077124	1755.083118	2352.352672
DNAJC21	901.4261389	1037.283167	451.136129
PKIG	292.7708827	152.6880821	90.00499125
NPNT	6115.169265	906.1705744	6622.589479
LINC0162(	1.100642416	4.149132667	8.889381852
CA7	4.402569665	2.4894796	0
FAM178B	7.704496914	94.6002248	12.22290005
TSPY2	2.201284833	0	0
SEMA4C	556.9250626	911.1495336	1062.281131
CNNM3	345.6017187	445.6168484	804.4890576
GSTM4	221.2291257	75.51421454	93.33850944
TET2	3770.800918	1923.537904	2222.345463
CXXC4	13.207709	215.7548987	138.8965914
TCTN2	553.6231354	776.7176352	622.2567296
SHOX2	6.603854498	39.00184707	8.889381852
PPIP5K1	206.9207743	181.7320108	155.5641824
TSPAN5	71.54175706	137.7512045	332.2406467
ABHD15	97.95717505	107.0476228	263.3479374
ZBTB5	446.860821	1015.707677	478.9154472
CHTF8	4.402569665	13.27722453	6.667036389
ADAL	77.04496914	133.6020719	38.8910456
LCMT2	200.3169198	244.7988273	230.0127554
SNTB2	290.5695979	213.2654191	258.9032464
IL12A	17.61027866	9.9579184	0
ZNF507	961.9614718	1384.980484	725.5957936
STX18	264.1541799	234.8409089	236.6797918
NSG1	15.40899383	64.7264696	241.1244827
ZBTB49	152.9892959	119.4950208	158.8977006
GFM1	947.6531204	1626.460005	1286.738023
OR13J1	0	0	2.222345463
HTR1E	5.503212081	0	18.88993643
FSTL5	7.704496914	1509.454464	106.6725822
TPTE2P5	0	0.829826533	0
DDX19A	67.13918739	87.131786	37.77987287
ATOH8	30.81798766	106.2177963	44.44690926
SOX14	2.201284833	2.4894796	0
ANKRD49	192.6124229	335.2499195	128.8960368
SFTPB	2.201284833	410.764134	15.55641824
USP39	638.3726015	1228.973096	753.3751119
TNIP2	115.5674537	86.30195947	323.3512648

C2orf68	145.284799	365.1236747	316.6842285
TMEM150	72.64239948	17.4263572	60.0033275
RNF181	230.034265	327.7814807	283.3490465
VAMP5	48.42826632	15.76670413	75.55974574
BTNL3	8.80513933	1.659653067	31.11283648
LRRC28	126.5738779	107.8774493	190.0105371
MAT2A	1450.646705	1258.017025	1510.083742
PLA2G4F	108.9635992	35.68254093	53.33629111
ENHO	3.301927249	55.59837774	34.44635467
ZNF608	910.2312783	578.3890938	92.22733671
SLC35G2	75.94432672	465.5326852	247.7915191
LETM1	308.1798766	387.5289911	775.5985665
TRIM49	3.301927249	4.149132667	237.7909645
TMEM129	111.164884	43.98080627	640.0354933
PPIC	347.8030036	245.6286539	227.7904099
SPRY3	2.201284833	0.829826533	0
CEP120	615.2591107	741.0350943	422.2456379
STXBP6	48.42826632	84.6423064	154.4530097
TM4SF20	6.603854498	0.829826533	0
MFF	1214.008585	1293.699566	654.4807388
GRM5	16.50963624	7.4684388	13.33407278
LGALS9	158.4925079	61.40716347	92.22733671
JMJD7-PL	7.704496914	7.4684388	2.222345463
CPLX1	15.40899383	62.23699	7.77820912
PXDC1	264.1541799	63.06681654	162.2312188
SIGLEC7	25.31477557	5.808785734	18.88993643
NTSR2	4.402569665	3.319306133	11.11172731
E2F6	77.04496914	239.8198681	106.6725822
FEM1B	1626.749491	1022.346289	684.4824026
COMMD8	52.83083598	140.2406841	143.3412824
ATP5ME	176.1027866	422.3817055	422.2456379
UQCRFS1	558.0257051	1487.049148	632.2572842
SLC49A3	62.73661773	10.78774493	32.22400921
COL4A3	343.4004339	25.72462253	234.4574463
MAP2K1	375.319064	376.7412461	444.4690926
KLK7	2.201284833	0.829826533	0
HNRNPH1	117.7687385	159.3266944	20.00110917
IRS1	1491.370474	209.9461129	585.5880295
MECP2	1296.556766	1106.988596	1505.639051
VCX3A	0	1.659653067	80.00443666
UPF3A	440.2569665	397.4869095	222.2345463
ZBBX	40.7237694	83.81247987	448.9137835
ACTBL2	1.100642416	1.659653067	2.222345463
ROR2	460.06853	234.0110824	700.0388208

BRD7P3	1.100642416	2.4894796	1.111172731
AR	3435.104981	23.23514293	4479.13728
VXN	4.402569665	4.149132667	1.111172731
HSPBAP1	212.4239863	243.1391743	208.9004735
CHST14	50.62955115	73.85456147	197.7887462
PARM1	1178.788028	355.1657563	1007.833667
CSNK1G1	147.4860838	170.9442659	52.22511838
FAM110B	111.164884	34.8527144	50.00277291
ODAD2	269.657392	293.7585928	122.2290005
AFAP1L2	248.7451861	112.8564085	158.8977006
ZNF354A	534.9122143	800.7826047	284.4602192
ATF5	147.4860838	186.71097	103.339064
UBE2V2	236.6381195	912.8091867	208.9004735
GOT1L1	2.201284833	1.659653067	5.555863657
ZBTB43	344.5010763	452.2554607	330.0183012
CPT1C	34.11991491	23.23514293	45.55808199
PCSK9	4.402569665	14.10705107	35.55752741
XPO6	1798.449708	1965.859058	3569.086813
GSG1L	7.704496914	10.78774493	14.44524551
MN1	285.0663858	31.53340827	362.2423104
APEX2	248.7451861	518.6415834	388.910456
NSMCE1	359.9100701	389.1886441	603.3667932
CCDC126	79.24625397	164.3056536	74.44857301
IL13	0	1.659653067	0
NPIPB12	431.4518272	238.9900416	396.6886651
OR10G3	4.402569665	1.659653067	26.66814555
RAB3B	1053.314792	994.9620135	63.33684569
OR6F1	0	0.829826533	0
CD2BP2	353.3062156	477.9800832	596.6997568
RSPO1	83.64882364	4.149132667	14.44524551
RGS14	125.4732355	82.1528268	106.6725822
TBC1D10I	211.3233439	599.1347571	520.0288383
LMAN2	2149.554639	2531.800753	3004.611066
GCSAML	2.201284833	2.4894796	3.333518194
RAB24	1.100642416	0.829826533	1.111172731
PRELID1	332.3940097	473.8309506	356.6864468
THBS3	367.614567	273.842756	828.9348577
CA5B	238.8394043	72.1949084	157.7865279
SLC50A1	170.5995745	244.7988273	434.468538
EFNA1	214.6252712	84.6423064	751.1527665
CXCL10	110.0642416	18.25618373	18.88993643
NPIPB3	478.7794511	265.5444907	256.680901
SH3TC2	28.61670282	5.808785734	75.55974574
CXCL11	42.92505424	1.659653067	10.00055458

ZRSR2	282.865101	201.6478476	201.1222644
NMD3	796.8651094	811.5703496	498.9165564
ADRB2	281.7644586	6.638612267	212.2339917
RPL36P14	7.704496914	9.9579184	6.667036389
B3GALNT	91.35332055	285.4603275	327.7959558
GPRIN1	36.32119974	2041.373272	141.1189369
HSPB3	4.402569665	0	0
KCNAB1	314.7837311	19.08601027	108.8949277
MRPL1	181.6059987	445.6168484	143.3412824
SHE	66.03854498	42.3211532	70.00388208
NR0B1	1.100642416	2.4894796	0
PGM2	464.4710997	361.8043685	837.8242395
STK32A	8.80513933	87.96161254	13.33407278
IL1RAPL1	40.7237694	7.4684388	145.5636278
P2RY12	31.91863007	19.9158368	27.77931829
C22orf15	1.100642416	0	6.667036389
OR5AU1	1.100642416	2.4894796	22.22345463
MINAR1	233.3361923	14.9368776	3.333518194
PDILT	14.30835141	4.149132667	22.22345463
UMOD	7.704496914	4.149132667	37.77987287
GP2	157.3918655	147.7091229	101.1167186
SLC33A1	40.7237694	34.02288787	11.11172731
SNUPN	135.3790172	127.7932861	134.4519005
CRADD	111.164884	92.1107452	195.5664007
SIN3A	3985.426189	3998.104238	2487.915746
ARL13B	300.4753796	744.3544004	202.2334371
RNASE2	5.503212081	20.74566333	15.55641824
RNASE3	2.201284833	1.659653067	7.77820912
PTK2	3658.535392	7474.247586	3581.309713
RSPH10B2	26.41541799	23.23514293	10.00055458
PTAFR	149.6873686	38.17202053	35.55752741
PTPN9	417.1434758	252.2672661	477.8042745
RNASE6	279.5631737	91.28091867	97.78320037
NPR1	25.31477557	35.68254093	36.66870014
KCNK9	8.80513933	164.3056536	18.88993643
CXCL8	44.02569665	58.08785734	2.222345463
SCN9A	90.25267814	1791.595486	203.3446099
RASSF6	253.1477557	736.0561351	87.78264578
COL22A1	86.95075089	251.4374396	184.4546734
SDC2	5245.661756	470.5116444	881.159976
CD52	111.164884	24.894796	6.667036389
MMGT1	419.3447606	603.2838898	284.4602192
SPRR1B	0	0	3.333518194
SPRR1A	4.402569665	0	0

OR4K15	2.201284833	0	1.111172731
TM2D2	287.2676707	381.7202053	314.461883
HTRA4	16.50963624	14.9368776	22.22345463
PLEKHA2	427.0492575	337.7393991	264.4591101
CLIC4	1026.899374	1581.649373	978.9431764
SLC38A11	192.6124229	12.447398	221.1233736
GPR183	108.9635992	46.47028587	54.44746384
CCDC8	106.7623144	18.25618373	14.44524551
METTL15	234.4368347	176.7530516	184.4546734
MUC15	19.81156349	4.149132667	17.7787637
CT55	0	0.829826533	0
ZEB2	6935.147865	1806.532363	1277.848641
GJB1	55.03212081	0.829826533	4.444690926
PCBP1	1630.051419	1443.068342	1141.174395
HINT1	641.6745287	1106.158769	618.9232114
DTWD2	118.869381	92.94057174	63.33684569
VPREB1	0	0	20.00110917
CLIC3	11.00642416	85.47213294	46.66925472
INO80E	369.8158519	499.5555731	378.9099014
BNC1	26.41541799	0	3.333518194
DFFB	38.52248457	52.2790716	115.5619641
NFU1	342.2997915	255.5865723	124.4513459
ANTXR1	4729.460463	780.0369414	3164.619939
GKN1	2.201284833	0	0
CKAP2L	67.13918739	1820.639414	26.66814555
C15orf40	127.6745203	117.0055412	135.5630732
RAMAC	165.0963624	163.4758271	46.66925472
PROKR1	0	2.4894796	0
APLF	175.0021442	34.02288787	124.4513459
BOLA2B	8.80513933	41.49132667	12.22290005
RGPD8	341.1991491	624.8593796	342.2412013
HIC2	123.2719506	117.8353677	91.11616398
LUZP1	1416.52679	979.1953094	1150.063777
HEXD	201.4175622	117.0055412	563.3645748
DRD5	1.100642416	46.47028587	0
BUB1	130.9764475	2320.194987	53.33629111
SPNS1	5.503212081	7.4684388	1.111172731
LRRC45	75.94432672	236.500562	234.4574463
CHRNA5	241.0406892	625.6892062	96.67202764
CENPX	40.7237694	88.79143907	63.33684569
AGPAT2	175.0021442	365.9535012	585.5880295
ASPSCR1	215.7259136	285.4603275	582.2545113
GP9	1.100642416	0	2.222345463
FASN	13840.57838	5261.930048	6225.900814

CNBP	1147.97004	1745.955026	1775.654025
MT1E	180.5053563	736.8859616	24.44580009
ACTRT2	1.100642416	0	4.444690926
DUS1L	377.5203488	354.3359297	767.8203574
GPS1	575.6359837	614.0716347	1511.194915
RFNG	136.4796596	99.579184	170.0094279
DCXR	1072.025713	514.4924507	614.4785205
ZNF32	342.2997915	408.2746544	461.1366835
LDB2	299.3747372	101.2388371	92.22733671
RAC3	35.22055732	114.5160616	61.11450023
NRG4	38.52248457	0	18.88993643
LIMS1	474.3768814	559.3030835	297.794292
TMEM266	12.10706658	2.4894796	16.66759097
NLGN1	572.3340565	136.0915515	707.8170299
TAPT1	278.4625313	416.5729197	433.3573653
UGP2	819.9786001	1443.068342	638.9243206
TAS2R1	0	5.808785734	2.222345463
LINGO1	73.74304189	456.4045934	136.674246
HNRNPF	2094.522518	3750.815931	2099.00529
BTD	751.7387703	497.0660935	2206.789045
CSGALNA	744.0342734	442.2975423	247.7915191
TACR3	2.201284833	17.4263572	0
GSX1	1.100642416	2.4894796	0
PCDH7	735.2291341	327.7814807	493.3606928
ROBO1	3151.139238	9050.088173	1974.553944
ONECUT1	7.704496914	20.74566333	1.111172731
AVEN	84.74946605	66.38612267	120.006655
P2RY1	183.8072835	36.51236747	182.232328
CTNND2	396.2312699	1238.931014	731.1516573
TRIM56	498.5910146	292.9287663	423.3568107
MUC17	102.3597447	31.53340827	712.2617209
AHSP	1.100642416	3.319306133	0
WNT10B	15.40899383	1.659653067	10.00055458
CALML6	6.603854498	3.319306133	34.44635467
REPS2	2261.820165	829.8265334	1506.750224
MUC3A	140.8822293	482.1292159	735.5963482
SYAP1	687.9015102	674.6489716	388.910456
ITGAM	189.3104956	112.8564085	274.4596647
PYDC1	1.100642416	0.829826533	21.1122819
TPST1	304.8779493	206.6268068	232.2351009
TM4SF4	3.301927249	0.829826533	12.22290005
TOR1AIP2	893.721642	1313.615402	1044.502368
S100G	0	0	1.111172731
TM4SF1	521.7045053	97.0897044	126.6736914

OTUD3	180.5053563	359.3148889	136.674246
OTUD7A	0	4.9789592	1.111172731
GUSB	589.9443351	798.2931251	824.4901667
BRD3	1794.047139	1896.153629	2194.566145
KLF13	90.25267814	7.4684388	11.11172731
FRMPD4	28.61670282	4.9789592	62.22567296
ZFPM2	40.7237694	27.3842756	213.3451644
ZNF764	51.73019357	82.98265334	122.2290005
ZNF747	22.01284833	15.76670413	3.333518194
ZNF768	379.7216336	628.1786858	437.8020562
TAS1R3	8.80513933	1.659653067	3.333518194
TMEM42	0	8.298265334	24.44580009
MAP3K2	1108.346913	1082.923626	664.4812934
PUSL1	42.92505424	22.4053164	113.3396186
SF3B5	394.029985	555.1539508	692.2606117
ZNF35	9.905781747	0.829826533	0
TIGD4	42.92505424	36.51236747	40.00221833
IFFO2	254.2483982	155.1775617	234.4574463
MYO7B	8.80513933	6.638612267	43.33573653
CHD3	6137.182113	5395.53212	7941.551512
TMEM154	33.01927249	20.74566333	20.00110917
MYRIP	146.3854414	94.6002248	192.2328825
ALCAM	2359.777341	3746.666798	2269.014718
YWHAG	1075.327641	1139.35183	674.481848
UBE2E3	464.4710997	1212.376565	927.8292308
CNTROB	444.6595362	590.8364918	700.0388208
TRAPPC1	199.2162773	317.8235623	366.6870014
ZPLD1	6.603854498	16.59653067	11.11172731
KCNAB3	35.22055732	27.3842756	38.8910456
SERPINA9	1.100642416	4.149132667	11.11172731
FAM153A	126.5738779	26.55444907	57.78098203
GPR37L1	2.201284833	16.59653067	1.111172731
SIMC1	717.6188554	1327.722453	361.1311377
TMEM192	509.5974387	576.7294407	312.2395375
NSG2	3.301927249	128.6231127	0
SPDYE5	3.301927249	1.659653067	3.333518194
SERPINA6	1.100642416	0	0
ZNF778	201.4175622	222.3935109	202.2334371
NIPA1	6.603854498	25.72462253	31.11283648
FOXD4	24.21413316	15.76670413	22.22345463
GPR25	8.80513933	2.4894796	8.889381852
UBE2E1	526.107075	920.2776255	735.5963482
HNRNPA3	1497.974329	4277.75578	654.4807388
SIK2	1016.993593	541.8767263	658.9254297

RNF150	456.7666028	245.6286539	277.7931829
CCDC144A	51.73019357	44.8106328	4.444690926
FAM88B	2.201284833	14.9368776	1.111172731
VGLL2	4.402569665	0.829826533	1.111172731
HOXD4	17.61027866	8.298265334	3.333518194
HOXD12	3.301927249	4.149132667	0
GYPA	5.503212081	0.829826533	0
USP38	762.7451945	1250.548586	895.6052215
SLC16A5	31.91863007	10.78774493	51.11394565
NANP	182.7066411	236.500562	65.55919115
ANKK1	12.10706658	9.128091867	98.8943731
ADRA1B	8.80513933	24.06496947	18.88993643
ADPRM	497.4903722	210.7759395	266.6814555
FABP6	2.201284833	3.319306133	10.00055458
PWWP2A	1045.610295	1878.727272	345.5747195
USP50	18.71092108	15.76670413	68.89270935
USP47	2203.486117	1622.310873	1120.062113
PDCD6IP	3044.376923	2206.508752	2020.112026
MRGPRX1	2.201284833	0	3.333518194
ZNF212	124.372593	85.47213294	161.1200461
MRAP	0	0	25.55697282
FAM161A	152.9892959	548.5153386	388.910456
ZNF282	313.6830886	146.8792964	227.7904099
GLB1	970.7666112	1870.429006	1805.655689
GON7	1.100642416	9.128091867	10.00055458
FAXDC2	214.6252712	351.8464501	166.6759097
CRTAP	1168.882246	904.5109214	1033.39064
HSPB2	1.100642416	0.829826533	0
C7orf33	0	1.659653067	4.444690926
CNGB3	27.51606041	22.4053164	42.22456379
SLN	0	0.829826533	0
ELP5	3.301927249	94.6002248	0
CMTM8	17.61027866	64.7264696	250.0138646
GABARAI	34.11991491	95.43005134	63.33684569
LGALS9B	6.603854498	0.829826533	0
STX8	502.9935842	614.9014612	313.3507103
CDK1	45.12633907	2230.573722	50.00277291
UBB	3626.616762	5075.219078	4423.578644
NFRKB	877.2120058	614.9014612	750.0415937
FABP4	12.10706658	33.19306133	34.44635467
FRMPD2	27.51606041	446.446675	191.1217098
PRDM10	530.5096447	409.9343075	750.0415937
B3GNT2	124.372593	502.0450527	156.6753551
FOS	156.2912231	846.423064	2305.683418

TMED10	2358.676698	4116.769432	2771.264792
SETMAR	210.2227015	300.3972051	116.6731368
SMAD1	482.0813783	662.2015736	270.0149737
CST5	1.100642416	1.659653067	0
CST2	31.91863007	0	2.222345463
EMX2	20.91220591	29.04392867	24.44580009
CST1	18.71092108	13.27722453	10.00055458
TCAF2	1.100642416	0	0
SEMA3E	269.657392	65.55629614	103.339064
LRRN2	234.4368347	478.8099098	282.2378738
SLC30A1	662.5867346	463.0432056	475.5819291
DCLK2	344.5010763	765.9298903	533.3629111
ZNF804A	146.3854414	411.5939605	17.7787637
TMEM182	45.12633907	68.04577574	32.22400921
VSTM2A	45.12633907	28.21410213	0
KRT8	1610.239855	1009.069065	700.0388208
KRT78	2.201284833	1.659653067	3.333518194
ADORA2E	41.82441182	43.98080627	293.3496011
SDR9C7	6.603854498	1.659653067	10.00055458
MGMT	168.3982897	222.3935109	624.4790751
METTL7B	5.503212081	7.4684388	2.222345463
KRT86	24.21413316	2.4894796	2.222345463
HARS1	252.0471133	254.7567457	350.0194104
NFXL1	533.8115719	731.0771759	820.0454758
KRT75	12.10706658	4.9789592	5.555863657
DENND5B	479.8800935	1141.84131	461.1366835
CD14	375.319064	233.1812559	776.7097393
KRT6C	3.301927249	4.9789592	0
RIOX1	233.3361923	204.9671537	181.1211552
SPATA24	8.80513933	47.3001124	56.6698093
RALGAPB	7634.055799	4066.97984	3272.403694
PYM1	130.9764475	61.40716347	51.11394565
MZB1	27.51606041	0.829826533	1.111172731
KRT4	25.31477557	4.149132667	13.33407278
SLC23A1	58.33404806	2.4894796	66.67036389
KRT74	2.201284833	1.659653067	6.667036389
NPAS2	1211.8073	107.0476228	633.3684569
KRT72	15.40899383	4.9789592	15.55641824
KISS1	2.201284833	1.659653067	3.333518194
LONRF2	351.1049308	364.2938481	313.3507103
NUDT9	664.7880194	243.9690008	306.6836739
HSD17B13	89.15203572	4.9789592	0
PA2G4	181.6059987	224.8829905	83.33795486
COX7B2	0	0	2.222345463

ELOVL6	28.61670282	163.4758271	64.44801842
KRT83	2.201284833	3.319306133	7.77820912
PFKFB3	302.6766645	262.2251845	210.0116462
TMC7	45.12633907	65.55629614	143.3412824
ARL6IP1	919.0364176	2524.332315	300.0166375
SERPINB9	245.4432588	85.47213294	133.3407278
SMAGP	37.42184215	39.8316736	44.44690926
IRX1	4.402569665	0.829826533	0
CDH2	106.7623144	2304.428283	92.22733671
IRX2	25.31477557	15.76670413	15.55641824
EMB	526.107075	117.0055412	790.0438121
SIX2	18.71092108	80.49317374	87.78264578
DLGAP1	55.03212081	404.1255217	60.0033275
STAT2	1637.755915	604.9435428	1571.198242
NUDCD2	132.07709	453.9151138	221.1233736
IRF2BP1	250.9464709	317.8235623	501.1389019
OR9K2	1.100642416	3.319306133	4.444690926
HSPA4	1479.263408	2299.449324	1105.616868
FOXA3	2.201284833	0	11.11172731
GARIN3	1.100642416	0	16.66759097
SLC26A5	84.74946605	48.12993894	23.33462736
COMMD5	117.7687385	246.4584804	401.133356
SGCD	86.95075089	52.2790716	17.7787637
GTSF1	6.603854498	2.4894796	4.444690926
ZNF16	166.1970049	401.6360421	291.1272556
ARMC10	134.2783748	117.0055412	246.6803464
RNF34	408.3383364	617.3909408	1025.612431
ACYP2	97.95717505	105.3879697	140.0077642
TRABD	345.6017187	95.43005134	173.3429461
ATF7	277.3618889	121.1546739	56.6698093
RASA4B	45.12633907	8.298265334	24.44580009
SOCS6	290.5695979	250.6076131	364.4646559
CAVIN4	12.10706658	26.55444907	38.8910456
ZNF296	60.5353329	61.40716347	100.0055458
HOXB9	4.402569665	2.4894796	1.111172731
TTLL6	38.52248457	16.59653067	76.67091847
POLH	314.7837311	455.5747668	353.3529286
SYT9	22.01284833	125.3038065	71.11505481
KCNS3	259.7516102	1116.946514	366.6870014
RBMXL2	6.603854498	0.829826533	20.00110917
KIF5B	8002.771009	9513.131379	5885.881958
GPR37	69.34047223	117.8353677	441.1355744
AKAP13	5516.41979	2691.957274	4504.694253
TPD52L3	1.100642416	0.829826533	5.555863657

CDCA4	50.62955115	426.5308382	31.11283648
OR10A4	1.100642416	0.829826533	2.222345463
SDR16C5	6.603854498	4.149132667	16.66759097
DYDC1	8.80513933	7.4684388	2.222345463
OR10A2	0	0	14.44524551
CHCHD7	102.3597447	146.0494699	53.33629111
HTRA3	115.5674537	87.96161254	28.89049102
FOXN2	198.1156349	503.7047058	224.4568918
LMOD2	9.905781747	0.829826533	14.44524551
BFSP2	0	4.149132667	5.555863657
FSHR	3.301927249	1.659653067	41.11339106
USP32	2116.535367	3016.419449	2335.685081
CEL	46.22698148	4709.265577	151.1194915
PPM1D	344.5010763	1076.285014	236.6797918
GPR27	63.83726015	68.87560227	221.1233736
ENSG0000	9.905781747	23.23514293	2.222345463
PSG6	5.503212081	4.9789592	46.66925472
KBTBD2	734.1284917	1258.017025	630.0349387
RIOX2	526.107075	388.3588176	561.1422294
TRIAP1	93.55460539	102.8984901	87.78264578
LSM3	155.1905807	534.4082875	134.4519005
KIAA0232	1646.561055	1580.819546	1234.512905
MTSS1	201.4175622	543.5363794	261.1255919
TMEM43	927.8415569	895.3828295	843.3801032
RNF139	1.100642416	1.659653067	1.111172731
RPS9	3.301927249	5.808785734	5.555863657
PLA2G1B	7.704496914	0	8.889381852
CYTL1	2.201284833	4.9789592	10.00055458
TRH	1.100642416	0.829826533	153.3418369
GSTA4	375.319064	977.5356563	532.2517384
MSANTD4	297.1734524	282.1410213	146.6748005
NDUFA3	0	0.829826533	0
OSCAR	5.503212081	0	5.555863657
PAQR8	56.13276323	134.4318984	467.8037199
NUDT6	45.12633907	81.32300027	65.55919115
TPT1-AS1	103.4603871	75.51421454	85.56030032
OR7G3	2.201284833	0.829826533	10.00055458
TANC2	1692.788036	3067.868694	2690.149183
OR7G2	5.503212081	4.149132667	7.77820912
TEX13B	0	0.829826533	3.333518194
PKHD1	461.1691724	196.6688884	1368.964805
OR1M1	0	1.659653067	27.77931829
NCBP2L	8.80513933	0	5.555863657
DNAJC24	104.5610295	139.4108576	62.22567296

ZNF160	1869.991465	2080.375119	1428.968133
PGK2	9.905781747	0.829826533	20.00110917
OR8B12	2.201284833	0.829826533	4.444690926
ZNF415	466.6723845	503.7047058	541.1411202
CAVIN3	52.83083598	13.27722453	61.11450023
CEACAM3	6.603854498	9.128091867	18.88993643
DCDC1	122.1713082	78.83352067	124.4513459
HAS2	180.5053563	51.44924507	37.77987287
PDGFD	86.95075089	197.4987149	91.11616398
PLAC1	4.402569665	0	0
DDI1	2.201284833	0	15.55641824
S1PR1	96.85653263	119.4950208	50.00277291
HS6ST2	14.30835141	84.6423064	81.11560939
OR4D5	3.301927249	0	0
PYGO1	832.0856667	304.5463377	248.9026918
LRRC8E	133.1777324	35.68254093	168.8982552
PKIA	181.6059987	266.3743172	258.9032464
XKR6	3.301927249	2.4894796	6.667036389
TSNARE1	177.203429	494.5766139	547.8081566
FPR2	3.301927249	28.21410213	8.889381852
FPR1	15.40899383	66.38612267	34.44635467
PATE1	3.301927249	4.149132667	0
OR13H1	3.301927249	3.319306133	15.55641824
FEZ2	496.3897298	537.7275936	524.4735292
SOX7	1.100642416	2.4894796	0
C8orf74	0	0	1.111172731
C11orf24	823.2805274	337.7393991	322.2400921
ALK	7.704496914	82.1528268	82.22678213
KYAT1	5.503212081	15.76670413	3.333518194
MTM1	353.3062156	320.3130419	238.9021373
OBP2B	1.100642416	0.829826533	0
TRMT61B	364.3126398	434.8291035	341.1300286
INSR	1894.205598	2939.245581	4490.249008
MFN1	785.8586852	775.0579822	665.5924661
GIMAP8	230.034265	148.5389495	96.67202764
HSFX1	4.402569665	1.659653067	2.222345463
NRTN	4.402569665	10.78774493	3.333518194
KCNMB3	126.5738779	749.3333596	116.6731368
FUT3	0	7.4684388	14.44524551
KCNG3	19.81156349	146.8792964	343.352374
ATP6V0E2	424.8479727	118.6651943	194.455228
PRKCE	278.4625313	375.9114196	322.2400921
OR2K2	7.704496914	1.659653067	21.1122819
JAGN1	119.9700234	244.7988273	224.4568918

TADA3	609.7558986	683.7770635	847.8247941
SOCS5	606.4539714	438.9782362	411.1339106
BBLN	25.31477557	59.7475104	90.00499125
MORN4	47.3276239	90.45109214	74.44857301
ZNF672	233.3361923	306.2059908	216.6786826
ZNF692	397.3319123	128.6231127	630.0349387
NAIF1	38.52248457	167.6249597	102.2278913
RBKS	47.3276239	38.17202053	114.4507913
OR2M4	5.503212081	2.4894796	7.77820912
GRIK1	155.1905807	4.9789592	1684.537861
MUC7	4.402569665	2.4894796	45.55808199
OPRPN	14.30835141	0	23.33462736
SMR3B	0	0.829826533	7.77820912
TMEM126	101.2591023	206.6268068	68.89270935
TMEM126	356.6081429	567.6013488	314.461883
TRIM8	684.5995829	373.42194	1072.281686
NETO2	159.5931504	2813.941775	394.4663197
CSN3	4.402569665	0.829826533	7.77820912
CLDN20	2.201284833	0.829826533	0
CDC42BP(	189.3104956	234.0110824	768.9315302
SCAND1	342.2997915	278.8217152	481.1377927
JUNB	517.3019357	573.4101346	1947.885798
FAM241B	14.30835141	100.4090105	120.006655
TMEM37	8.80513933	11.61757147	24.44580009
UGT2B7	5.503212081	11.61757147	12.22290005
LRG1	81.44753881	16.59653067	336.6853376
SHCBP1	40.7237694	453.0852872	11.11172731
SOSTDC1	4.402569665	0	0
NPTX1	5.503212081	2114.398007	24.44580009
FAM98B	451.2633907	545.1960324	178.8988098
ZNF439	112.2655265	17.4263572	47.78042745
ZNF440	324.6895128	372.5921135	281.1267011
GAA	82.54818122	39.8316736	393.3551469
CANT1	1464.955056	915.2986663	1236.73525
KCNK3	37.42184215	173.4337455	101.1167186
ZDHHC16	322.488228	266.3743172	233.3462736
CHST11	165.0963624	996.6216666	157.7865279
EXOSC1	122.1713082	192.5197557	126.6736914
PGAM1	236.6381195	668.0103594	453.3584744
CHD7	3417.494703	10170.35399	1711.206006
ESCO2	17.61027866	292.0989397	2.222345463
KRT19	2346.569632	959.2794726	660.0366025
KRT15	463.3704573	68.87560227	14.44524551
LURAP1	30.81798766	3.319306133	34.44635467

KRT38	0	0.829826533	17.7787637
CLCN5	307.0792341	276.3322356	782.2656029
TPPP	62.73661773	138.5810311	51.11394565
KCND3	1418.728075	431.5097974	275.5708374
APLN	3.301927249	9.128091867	30.00166375
KRT13	63.83726015	0	14.44524551
XAGE3	0	0.829826533	3.333518194
KRT9	3.301927249	4.149132667	55.55863657
XAGE5	1.100642416	0.829826533	2.222345463
PDE7B	118.869381	101.2388371	92.22733671
MRPL36	275.1606041	573.4101346	187.7881916
ZNF581	51.73019357	51.44924507	120.006655
NAT1	56.13276323	117.8353677	34.44635467
GLOD5	6.603854498	1.659653067	23.33462736
KSR2	189.3104956	893.7231764	657.814257
ZNF524	85.85010847	84.6423064	163.3423915
MCC	394.029985	107.0476228	615.5896932
KRT27	9.905781747	9.128091867	8.889381852
ZBTB26	285.0663858	603.2838898	318.9065739
CDK5R2	6.603854498	97.0897044	3.333518194
POLR1C	187.1092108	292.9287663	256.680901
ASXL1	1592.629576	1910.26068	2310.128109
OR1L6	0	2.4894796	13.33407278
DLK2	30.81798766	29.04392867	12.22290005
ZNF562	905.8287086	1247.22928	718.9287572
ZNF318	2350.972201	2192.401701	2022.334371
ZNF561	585.5417655	565.1118692	605.5891386
WIPF2	835.387594	655.5629614	506.6947655
HOPX	106.7623144	107.0476228	126.6736914
OR1L3	0	2.4894796	12.22290005
NLRP5	4.402569665	3.319306133	36.66870014
LRRC8C	206.9207743	267.2041437	266.6814555
SPACA5	0	0.829826533	0
RSL1D1	1622.346922	1698.654914	1061.169959
LRRC8D	655.9828801	754.3123188	933.3850944
MROH2B	8.80513933	9.128091867	23.33462736
OR1L8	5.503212081	4.9789592	14.44524551
PPID	762.7451945	1267.974943	328.9071285
OR1N2	0	8.298265334	1.111172731
COL24A1	136.4796596	76.34404107	344.4635467
ETFDH	747.3362007	703.6929003	607.8114841
OR1N1	0	1.659653067	13.33407278
RXFP1	24.21413316	45.64045934	13.33407278
LPAR3	186.0085684	21.57548987	316.6842285

PTGER4	61.63597531	19.08601027	107.7837549
TBCA	201.4175622	440.6378892	124.4513459
NEUROD2	8.80513933	1.659653067	28.89049102
MAP6	260.8522527	145.2196433	173.3429461
OTP	7.704496914	10.78774493	0
ECEL1	12.10706658	204.1373272	2980.165266
BCL2L1	1079.73021	613.2418082	458.9143381
FGG	8.80513933	1.659653067	6.667036389
FGA	7.704496914	7.4684388	54.44746384
OR2AT4	0	2.4894796	18.88993643
FGB	6.603854498	0.829826533	7.77820912
PLRG1	666.9893043	1057.199004	540.0299475
ZNF584	232.2355498	419.8922259	321.1289194
DSCAM	1.100642416	0	0
DNAI2	2.201284833	9.128091867	12.22290005
NMUR1	18.71092108	3.319306133	1.111172731
CLSTN1	3348.15423	4247.052198	9161.619171
CXXC5	110.0642416	197.4987149	143.3412824
ZNF274	368.7152095	590.8364918	580.0321658
PIK3CD	171.7002169	92.1107452	167.7870824
PTCRA	1.100642416	2.4894796	4.444690926
SLC25A33	97.95717505	618.2207674	231.1239281
ENC1	1971.250568	796.633472	3133.507103
SPSB1	201.4175622	132.7722453	42.22456379
P2RY6	41.82441182	10.78774493	40.00221833
BPTF	7488.771	5353.210967	4903.605264
S100Z	2.201284833	29.04392867	3.333518194
ZIK1	35.22055732	102.0686636	88.89381852
GPR82	14.30835141	1.659653067	40.00221833
GPR34	624.06425	253.0970927	390.0216287
SHANK2-/	0	4.149132667	0
PLEKHG5	144.1841565	458.894073	327.7959558
ATF7IP	4026.149959	2783.238193	2484.582227
LKAAEAF	1.100642416	2.4894796	0
RGS19	36.32119974	57.2580308	103.339064
TCEA2	152.9892959	199.158368	450.0249562
ANO5	337.8972218	6.638612267	12.22290005
HDAC3	423.7473303	332.7604399	303.3501557
SPATA46	0	0.829826533	6.667036389
GPHN	895.9229269	811.5703496	903.3834307
VAT1L	2.201284833	0.829826533	8.889381852
TMEM51	183.8072835	156.0073883	120.006655
CAMTA1	293.8715252	1451.366607	347.7970649
LRRC34	19.81156349	19.08601027	23.33462736

PAH	7.704496914	47.3001124	28.89049102
SPATA5L1	127.6745203	126.1336331	117.7843095
GATM	208.0214167	53.10889814	58.89215477
SYCE1	4.402569665	7.4684388	26.66814555
NXNL1	0	0	1.111172731
RASGRP4	25.31477557	19.08601027	66.67036389
NHLH1	2.201284833	2.4894796	0
SLFNL1	20.91220591	2.4894796	13.33407278
BCL2	129.8758051	546.025859	104.4502368
RHNO1	249.8458285	607.4330224	207.7893008
CTPS1	380.822276	1443.898168	427.8015016
UTF1	4.402569665	0.829826533	0
KNDC1	27.51606041	130.2827657	234.4574463
WDR87	26.41541799	23.23514293	156.6753551
METTL18	130.9764475	196.6688884	117.7843095
CFAP46	13.207709	210.7759395	108.8949277
COL8A2	53.9314784	71.36508187	21.1122819
PWWP2B	163.99572	181.7320108	230.0127554
PCDHB1	1.100642416	0.829826533	0
ZNF540	188.2098532	40.66150013	128.8960368
ANGPTL7	2.201284833	0.829826533	30.00166375
FBXL14	387.4261305	273.0129295	352.2417559
EXOSC10	1102.843701	1799.893751	1240.068768
ZNF570	198.1156349	262.2251845	196.6775735
NINJ2	24.21413316	9.128091867	6.667036389
MLLT3	753.9400552	694.5648084	464.4702017
FAM90A1	1.100642416	0	0
RRM2	148.5867262	2239.701814	16.66759097
TRAPPC12	350.0042884	197.4987149	997.8331128
RPS21	614.1584683	1293.699566	941.1633035
C3AR1	177.203429	125.3038065	173.3429461
MRM3	83.64882364	177.5828781	121.1178277
PTEN	440.2569665	21.57548987	6.667036389
RPS7	646.0770984	1206.56778	754.4862846
PRND	0	0.829826533	0
RNASEH1	52.83083598	131.1125923	28.89049102
PRNP	2403.803037	539.3872467	430.0238471
KLF17	6.603854498	0	16.66759097
ADRA1D	19.81156349	12.447398	6.667036389
FRMD5	20.91220591	41.49132667	13.33407278
AQP4	38.52248457	6.638612267	21.1122819
MIR31HG	2.201284833	1.659653067	0
CYP4F11	15.40899383	19.08601027	35.55752741
TLN2	729.725922	318.6533888	718.9287572

TVP23B	209.1220591	386.6991645	530.0293929
FBXW10	22.01284833	9.9579184	44.44690926
OR10H3	4.402569665	0	15.55641824
ZNF217	6276.9637	2315.216028	3339.074058
OR10H2	1.100642416	0	20.00110917
SRGAP2C	88.0513933	240.6496947	133.3407278
OR52A5	2.201284833	1.659653067	1.111172731
SCG2	176.1027866	2794.025938	128.8960368
ATPAF2	154.0899383	135.2617249	214.4563372
CYP4F22	22.01284833	7.4684388	57.78098203
FOXB1	9.905781747	267.2041437	7.77820912
PPIH	217.9271984	140.2406841	143.3412824
DRC3	108.9635992	65.55629614	76.67091847
ZNF57	137.580302	271.3532764	210.0116462
SHLD1	47.3276239	46.47028587	61.11450023
C11orf40	4.402569665	1.659653067	2.222345463
JMJD1C	10888.65542	8719.817213	7837.101275
LDHAL6B	2.201284833	0.829826533	0
SYNPO	2200.18419	204.9671537	455.5808199
ZNF556	8.80513933	3.319306133	43.33573653
MAL	1.100642416	203.3075007	4.444690926
ZNF554	217.9271984	212.4355925	340.0188558
RAB33B	224.5310529	273.0129295	272.2373192
THOP1	363.2119974	529.4293283	882.2711488
GAP43	6.603854498	1.659653067	11.11172731
REG1B	0	0.829826533	3.333518194
EPHX4	13.207709	9.128091867	12.22290005
LAMB2	3848.94653	589.1768387	1810.10038
USP19	530.5096447	282.1410213	1053.391749
QARS1	1441.841565	580.8785734	983.3878673
ORMDL3	556.9250626	555.9837774	733.3740027
SERF1A	0	5.808785734	10.00055458
KLF11	165.0963624	861.3599416	473.3595836
LRRC15	84.74946605	109.5371024	5.555863657
SMN1	12.10706658	5.808785734	10.00055458
EIF2AK3	1767.631721	713.6508187	613.3673478
TEX37	0	4.149132667	8.889381852
MOB3A	385.2248457	214.0952456	291.1272556
KRCC1	739.6317038	108.7072759	231.1239281
NME6	148.5867262	102.8984901	68.89270935
CYCS	294.9721676	742.6947474	233.3462736
CD8B	69.34047223	4.9789592	0
SLFN12	103.4603871	66.38612267	46.66925472
CALB2	0	8.298265334	0

SLC9C1	0	0	8.889381852
OR1A1	16.50963624	3.319306133	8.889381852
OR1A2	6.603854498	1.659653067	15.55641824
OR8I2	0	4.149132667	0
LCE1D	0	0	13.33407278
CCL11	14.30835141	0	0
FRMD3	74.84368431	720.289431	42.22456379
SNTB1	617.4603955	867.9985539	157.7865279
MTBP	203.618847	924.4267582	110.0061004
TEFM	141.9828717	157.6670413	161.1200461
MRPL13	199.2162773	887.0845642	214.4563372
MALT1	854.098515	572.580308	286.6825647
PRL	1.100642416	5.808785734	12.22290005
ISG20	90.25267814	87.96161254	22.22345463
HMGN1P3	0	0.829826533	0
OR4C11	5.503212081	2.4894796	0
MBOAT1	405.0364092	548.5153386	417.800947
ID4	114.4668113	261.395358	77.7820912
OR4X2	0	0	8.889381852
CXCR6	16.50963624	0	4.444690926
CEBPB	160.6937928	178.4127047	415.5786016
TPSAB1	392.9293426	4.9789592	44.44690926
ATOH1	5.503212081	0	8.889381852
PAIP1	649.3790256	1240.590667	540.0299475
CLEC7A	230.034265	82.1528268	93.33850944
C5orf34	85.85010847	338.5692256	58.89215477
SERHL	57.23340565	0.829826533	6.667036389
NEGR1	90.25267814	169.2846128	45.55808199
ZNF131	390.7280578	549.3451651	166.6759097
MACROD2	110.0642416	159.3266944	21.1122819
DPAGT1	300.4753796	170.9442659	240.01331
BSG	1197.498949	3091.933663	2501.249818
HINFP	100.1584599	121.9845004	70.00388208
OR10V1	0	0.829826533	14.44524551
CERS6	548.1199233	2097.801476	2447.913527
SPTLC3	670.2912315	963.4286052	1884.548953
COPRS	127.6745203	216.5847252	215.5675099
TP53RK	172.8008594	136.921378	206.678128
B3GALT1	16.50963624	39.8316736	48.89160018
OR5A1	5.503212081	3.319306133	8.889381852
CLEC12A	30.81798766	15.76670413	13.33407278
OR5A2	2.201284833	0.829826533	5.555863657
BPGM	95.75589022	143.5599903	128.8960368
POP7	97.95717505	140.2406841	72.22622754

ALG14	113.3661689	225.7128171	266.6814555
SUCLG2	652.6809529	265.5444907	305.5725011
STARD5	66.03854498	19.9158368	75.55974574
CSDC2	47.3276239	3.319306133	6.667036389
RCAN2	281.7644586	149.368776	165.564737
IL16	485.3833056	67.2159492	162.2312188
ABCG4	9.905781747	4.149132667	15.55641824
GNB2	753.9400552	731.9070024	1250.069323
CFAP53	34.11991491	39.00184707	48.89160018
OR5B12	4.402569665	0.829826533	11.11172731
OR5B2	3.301927249	0	5.555863657
MCRIP2	35.22055732	114.5160616	131.1183823
NHERF4	9.905781747	4.9789592	5.555863657
C2CD2L	176.1027866	110.3669289	150.0083187
OR9I1	1.100642416	0	31.11283648
ARNT2	345.6017187	186.71097	598.9221022
GNG12	442.4582514	223.2233375	250.0138646
PRSS27	16.50963624	29.04392867	13.33407278
MYOZ2	6.603854498	3.319306133	12.22290005
SYNPO2	6556.526874	97.0897044	887.8270124
DNAJB7	5.503212081	0.829826533	5.555863657
CLP1	86.95075089	177.5828781	67.78153662
INSL5	0	0	4.444690926
EFCAB3	7.704496914	3.319306133	4.444690926
TTC36	3.301927249	2.4894796	6.667036389
RSPH9	5.503212081	6.638612267	12.22290005
COPS9	33.01927249	118.6651943	84.44912759
GTPBP2	356.6081429	852.2318498	750.0415937
FGGY	352.2055732	126.9634596	420.0232925
IL17D	6.603854498	1.659653067	16.66759097
OR5AR1	4.402569665	0.829826533	36.66870014
FUT9	20.91220591	111.1967555	16.66759097
OR5AP2	1.100642416	0	13.33407278
TCEAL1	169.4989321	112.026582	78.89326393
ZNF24	654.8822377	962.5987787	573.3651294
MANEA	223.4304105	376.7412461	284.4602192
RAB40A	38.52248457	5.808785734	8.889381852
MAB21L4	123.2719506	48.95976547	0
AGXT	13.207709	11.61757147	16.66759097
AFF1	3854.449742	2035.564486	3300.183012
ACOT12	6.603854498	1.659653067	14.44524551
FIBP	236.6381195	517.8117568	522.2511838
CARNS1	8.80513933	36.51236747	48.89160018
OR10H5	1.100642416	4.149132667	22.22345463

BANP	160.6937928	130.2827657	184.4546734
PPP1CA	914.6338479	1351.787423	1488.97146
HCFC1	5269.875889	6078.479357	6780.376007
CTSW	20.91220591	4.9789592	10.00055458
NIPAL4	9.905781747	9.9579184	11.11172731
MUCL1	24.21413316	88.79143907	40.00221833
SNTG2	14.30835141	73.02473494	28.89049102
PDE3A	686.8008678	68.87560227	162.2312188
RASGRP1	190.411138	19.08601027	30.00166375
KLHL6	91.35332055	26.55444907	36.66870014
CHCHD1	110.0642416	279.6515417	200.0110917
MRPL52	119.9700234	175.0933985	152.2306642
SMPDL3A	369.8158519	34.8527144	116.6731368
RND1	44.02569665	9.128091867	0
RAD9A	133.1777324	106.2177963	292.2384284
EFEMP2	413.8415485	52.2790716	560.0310566
OR10AD1	0	1.659653067	14.44524551
AGAP5	3.301927249	1.659653067	7.77820912
WASHC2C	775.9529035	320.3130419	588.9215477
TMEM134	122.1713082	70.53525534	263.3479374
ZMAT3	154.0899383	299.5673785	204.4557826
ZFAND4	420.445403	361.8043685	304.4613284
MOS	3.301927249	0	0
ZNF738	139.7815869	679.6279308	60.0033275
MS4A10	3.301927249	2.4894796	13.33407278
SLFN11	402.8351244	175.9232251	352.2417559
GARIN2	4.402569665	4.149132667	3.333518194
CCL19	124.372593	4.149132667	4.444690926
CORO1B	784.7580428	359.3148889	1714.539525
FUT10	139.7815869	132.7722453	123.3401732
LRRC20	79.24625397	218.2443783	82.22678213
MUS81	168.3982897	248.94796	404.4668742
PURG	20.91220591	5.808785734	8.889381852
TMEM217	9.905781747	19.08601027	12.22290005
OR4D9	2.201284833	2.4894796	12.22290005
ZNF596	91.35332055	36.51236747	92.22733671
COL6A5	44.02569665	16.59653067	48.89160018
CFL1	1733.511806	5049.494456	3374.631585
TMCC1	1123.755907	603.2838898	1023.390086
NAA16	400.6338395	394.1676033	138.8965914
OR5B3	2.201284833	0.829826533	5.555863657
EFCAB12	127.6745203	34.8527144	91.11616398
OR10W1	0	1.659653067	2.222345463
PSME3IP1	374.2184215	503.7047058	273.3484919

RAB43	71.54175706	47.3001124	190.0105371
FADS6	2.201284833	15.76670413	5.555863657
ZNG1A	832.0856667	887.0845642	288.9049102
HOXC5	29.71734524	5.808785734	6.667036389
RAB37	7.704496914	13.27722453	33.33518194
DCP2	408.3383364	429.8501443	241.1244827
ZBTB8OSI	1.100642416	1.659653067	3.333518194
SNX32	9.905781747	6.638612267	46.66925472
RPL38	1156.77518	2009.010037	722.2622754
CYP7B1	469.9743118	188.3706231	315.5730557
OVOL1	16.50963624	8.298265334	7.77820912
RARG	226.7323378	48.12993894	104.4502368
CES4A	13.207709	37.342194	103.339064
CES3	4.402569665	4.9789592	26.66814555
SSH3	570.1327716	210.7759395	676.7041934
CES2	266.3554647	124.47398	268.903801
PDP2	158.4925079	167.6249597	140.0077642
SP3	2993.747372	4900.955506	2427.912418
KRT2	22.01284833	0.829826533	8.889381852
DMXL1	7918.021543	2086.183905	6758.152553
METAP1D	1.100642416	0	0
ZNF621	614.1584683	305.3761643	352.2417559
EGFL7	88.0513933	285.4603275	807.8225758
NADSYN1	418.2441182	463.8730322	1616.756324
DHCR7	474.3768814	514.4924507	871.1594214
ACTE1P	0	0.829826533	3.333518194
LVRN	16.50963624	4.9789592	8.889381852
NBEA	3341.550376	1170.055412	2024.556717
RNASEH2	81.44753881	126.9634596	170.0094279
MYEOV	2.201284833	2.4894796	1.111172731
ANKRD13	254.2483982	259.7357049	446.691438
MRGPRF	128.7751627	9.9579184	63.33684569
MYD88	169.4989321	117.0055412	172.2317734
MRGPRD	1.100642416	0	5.555863657
OXSR1	650.479668	687.0963696	330.0183012
SLC22A13	9.905781747	4.9789592	23.33462736
PHF8	1879.897247	3236.32348	1627.868052
LCLAT1	832.0856667	794.973819	578.9209931
ADH6	5.503212081	1.659653067	7.77820912
MIR4435-2	28.61670282	107.8774493	3.333518194
XKR3	13.207709	1.659653067	13.33407278
FRG2C	2.201284833	0	11.11172731
VDAC2P5	94.6552478	307.0358173	154.4530097
KAT5	372.0171367	604.1137163	657.814257

SH3RF3	135.3790172	224.053164	236.6797918
GXYLT2	159.5931504	34.8527144	214.4563372
HPSE2	101.2591023	4.149132667	24.44580009
DCAKD	320.2869431	396.6570829	448.9137835
ARPP21	20.91220591	11.61757147	35.55752741
TADA2B	268.5567496	149.368776	500.0277291
CCDC96	20.91220591	48.12993894	18.88993643
GRK2	1227.216294	1164.246626	1405.633505
RELA	1023.597447	755.1421454	1500.083187
EVC2	243.241974	51.44924507	224.4568918
ZNF680	1319.670257	425.7010116	1368.964805
HECTD4	10073.07939	7332.347249	11258.40211
FAM222B	961.9614718	928.5758908	1037.835331
BNC2	705.5117888	737.7157882	1030.057122
DELEC1	6.603854498	0.829826533	0
RXFP4	0	0.829826533	0
HPSE	59.43469048	516.9819303	84.44912759
COQ2	246.5439013	171.7740924	198.8999189
CCDC63	3.301927249	0.829826533	0
HSPA6	33.01927249	361.8043685	11.11172731
TRMT112	192.6124229	610.7523286	544.4746384
LRRN3	35.22055732	50.61941854	13.33407278
KDM2A	2221.096396	1497.836893	1631.20157
ACSM6	3.301927249	0.829826533	7.77820912
ADCK5	1.100642416	0	0
MRPL57	210.2227015	261.395358	173.3429461
NOC3L	266.3554647	219.9040313	174.4541188
ESRRA	96.85653263	162.6460005	121.1178277
RHOD	73.74304189	28.21410213	190.0105371
ADAMTS2	27.51606041	53.93872467	221.1233736
COMMD1	97.95717505	53.10889814	64.44801842
RAPH1	3647.528968	5128.327976	2162.342135
MTX1	33.01927249	48.12993894	88.89381852
ADCY5	767.1477642	676.3086247	1182.287786
PARP14	2620.629593	1880.386925	3382.409794
CYSLTR1	61.63597531	6.638612267	17.7787637
PARP15	99.05781747	7.4684388	54.44746384
CKS1B	24.21413316	104.5581432	17.7787637
ABCD2	48.42826632	2.4894796	14.44524551
AHSA2P	659.2848074	205.7969803	497.8053837
ABLIM3	194.8137077	72.1949084	172.2317734
MAB21L3	6.603854498	0.829826533	37.77987287
TUBB8B	6.603854498	42.3211532	10.00055458
MFSD4B	425.9486151	316.9937357	452.2473017

VANGL1	452.3640331	792.4843394	386.6881105
GLRX	27.51606041	43.15097974	24.44580009
IQCB1	551.4218506	1092.881544	605.5891386
SYT12	35.22055732	4.9789592	0
GOLGB1	19658.5742	9617.689522	13339.62864
LIPM	9.905781747	0	0
GPR151	0	0	2.222345463
DMRT2	5.503212081	5.808785734	17.7787637
ZNF483	507.3961539	731.0771759	346.6858922
PLAC8L1	19.81156349	15.76670413	3.333518194
SLC2A14	11.00642416	7.4684388	16.66759097
GPR137	154.0899383	300.3972051	468.9148927
SNCG	31.91863007	31.53340827	6.667036389
MMRN2	82.54818122	118.6651943	44.44690926
MZT2A	117.7687385	135.2617249	104.4502368
TNKS	197.0149925	93.77039827	181.1211552
ZNF449	161.7944352	206.6268068	132.229555
ZBTB21	1164.479676	1896.153629	488.9160018
PPP1R3B	2.201284833	0	0
OR10K1	4.402569665	4.9789592	31.11283648
GPR148	5.503212081	4.149132667	16.66759097
STOX2	136.4796596	206.6268068	32.22400921
MAP3K11	510.6980812	445.6168484	843.3801032
TRIB1	2238.706675	382.5500319	2125.673435
CST9	1.100642416	0.829826533	0
KCNK7	5.503212081	2.4894796	12.22290005
SFT2D3	12.10706658	18.25618373	8.889381852
C1QB	1244.826573	617.3909408	770.0427029
C1QA	114.4668113	73.85456147	160.0088733
NDNF	2353.173486	2287.831752	331.129474
IQCF1	6.603854498	2.4894796	0
OLR1	49.52890873	4.9789592	27.77931829
GLIPR1L1	11.00642416	4.9789592	6.667036389
DAG1	2870.475422	1810.681496	1364.520114
INSM1	4.402569665	1441.408688	16.66759097
DAB1	19.81156349	7.4684388	2759.041892
ARV1	191.5117804	202.4776741	155.5641824
NAA20	746.2355583	1077.944667	457.8031654
IHO1	11.00642416	9.128091867	26.66814555
RNASE8	0	3.319306133	20.00110917
SAA1	3.301927249	0	1.111172731
MICOS10	25.31477557	43.98080627	6.667036389
EHBP1L1	1101.743059	817.3791354	1031.168295
THAP2	38.52248457	40.66150013	3.333518194

TMEM196	2.201284833	0	1.111172731
RNF26	163.99572	187.5407965	232.2351009
PPP1R14B	96.85653263	312.0147765	115.5619641
ZNRD2	68.23982981	75.51421454	187.7881916
AGR3	13.207709	2.4894796	4.444690926
SMARCC1	3267.807334	2803.15403	1821.212107
ZNF417	624.06425	523.6205426	553.3640203
PTPRM	2468.74094	1863.790394	1494.527324
FKBP2	1.100642416	0.829826533	3.333518194
VEGFB	325.7901552	318.6533888	361.1311377
PEAK1	3622.214192	2087.843558	1461.192142
TNFRSF1(	70.44111464	24.894796	42.22456379
MST1	67.13918739	21.57548987	122.2290005
TNFRSF1(	13.207709	26.55444907	2.222345463
GMPPB	208.0214167	95.43005134	132.229555
MOB1B	340.0985066	417.4027463	282.2378738
ZNF622	337.8972218	404.9553483	280.0155283
CSPG4	292.7708827	465.5326852	173.3429461
SNX33	486.483948	195.0092353	334.4629922
FAM166C	16.50963624	160.9863475	46.66925472
NABP1	342.2997915	163.4758271	96.67202764
ADGRF3	6.603854498	9.9579184	62.22567296
NLRP13	11.00642416	4.149132667	24.44580009
CHD2	6704.012958	2501.097172	2971.275884
XCR1	7.704496914	0.829826533	1.111172731
CCDC106	79.24625397	46.47028587	104.4502368
CCR9	2.201284833	0.829826533	12.22290005
CEP83	378.6209912	331.1007868	387.7992833
SULT1B1	6.603854498	19.08601027	4.444690926
NUDT4	346.7023611	273.0129295	321.1289194
PC	276.2612465	436.4887566	1257.847532
UGT2A1	2.201284833	0.829826533	13.33407278
SCAI	260.8522527	615.7312878	402.2445288
GPRC6A	4.402569665	6.638612267	0
NMNAT1	97.95717505	146.8792964	183.3435007
LRFN4	37.42184215	117.8353677	48.89160018
TRAPPC3I	5.503212081	3.319306133	0
APOBEC4	3.301927249	4.149132667	0
SLC19A1	0	0	1.111172731
HSPB7	267.4561072	9.9579184	17.7787637
RCE1	70.44111464	98.74935747	176.6764643
UQCRH	617.4603955	1103.669289	718.9287572
TAS1R1	0	2.4894796	21.1122819
HES3	1.100642416	4.9789592	0

EIF1AX	203.618847	549.3451651	153.3418369
SPDYE2B	2.201284833	0	0
OR1L1	0	4.149132667	31.11283648
BCLAF3	1109.447556	954.3005134	900.0499125
PSMD1	1779.738787	3078.656439	2379.020818
ADGRG2	58.33404806	159.3266944	54.44746384
SPATA3	0	0.829826533	0
MUC13	40.7237694	3.319306133	6.667036389
SUSD5	17.61027866	50.61941854	101.1167186
HEG1	2104.4283	707.842033	318.9065739
WFIKKN2	3.301927249	2.4894796	285.571392
C11orf80	841.9914485	660.5419206	1051.169404
TOMM20	414.9421909	370.9324604	513.3618019
C1orf100	3.301927249	0.829826533	0
AGFG1	1675.177758	2643.827335	2089.004735
STAT5B	956.4582598	540.2170732	741.1522119
CD7	55.03212081	0.829826533	32.22400921
TOPAZ1	16.50963624	2.4894796	28.89049102
CNP	847.4946605	743.5245739	644.4801842
JUP	3284.31697	1839.725424	4584.69869
HAP1	12.10706658	14.9368776	22.22345463
TDRD12	28.61670282	9.128091867	35.55752741
PPIAP7	0	0.829826533	1.111172731
CCDC13-A	1.100642416	0	0
EIF1	1415.426147	2824.72952	2551.252591
ENDOV	106.7623144	128.6231127	364.4646559
RNF213	8877.78173	4250.371504	11611.75504
TIGD3	5.503212081	72.1949084	35.55752741
KCNH6	55.03212081	269.6936233	25.55697282
MARCHF1	4.402569665	4.149132667	30.00166375
PLK3	108.9635992	52.2790716	151.1194915
NET1	1304.261263	2512.714743	1993.44388
DPY19L1	247.6445437	236.500562	164.4535643
ENSG0000	2.201284833	0.829826533	0
PHOSPHO	7.704496914	5.808785734	11.11172731
ZNF791	648.2783832	722.7789106	568.9204385
PHC3	6377.12216	2548.397284	2666.814555
GPR160	738.5310613	277.9918887	914.495158
CBX2	34.11991491	346.8674909	120.006655
SPTBN2	2695.473278	818.2089619	3336.851713
GOLIM4	1555.207734	1053.049871	3209.066848
KRT28	1.100642416	3.319306133	5.555863657
RBM4B	450.1627483	612.4119816	562.2534021
ATP5MK	67.13918739	450.5958076	61.11450023

HOXB2	124.372593	507.8538384	18.88993643
C1QTNF1	91.35332055	48.12993894	141.1189369
MARCHF3	5.503212081	71.36508187	18.88993643
SWSAP1	19.81156349	47.3001124	51.11394565
SLCO4C1	11.00642416	44.8106328	60.0033275
RBM4	111.164884	263.8848376	93.33850944
PIFO	163.99572	216.5847252	18.88993643
XXYLT1	100.1584599	90.45109214	312.2395375
UBXN2A	283.9657434	604.1137163	190.0105371
COMMD5	0	0	1.111172731
RAX2	0	4.149132667	8.889381852
LRRC63	25.31477557	40.66150013	1.111172731
TCAP	3.301927249	4.9789592	25.55697282
CCS	275.1606041	185.8811435	487.8048291
NRROS	45.12633907	34.02288787	25.55697282
CEP19	29.71734524	76.34404107	80.00443666
KLHL15	408.3383364	1065.497269	483.3601382
FBXO45	115.5674537	365.1236747	91.11616398
CBY2	3.301927249	0.829826533	10.00055458
TENT5D	34.11991491	95.43005134	28.89049102
GNG5	58.33404806	165.9653067	200.0110917
FAM3C2P	39.62312699	54.7685512	20.00110917
SLC25A30	192.6124229	102.8984901	136.674246
C9orf131	2.201284833	5.808785734	8.889381852
CD34	320.2869431	185.8811435	52.22511838
CTSF	504.0942267	470.5116444	1868.992534
MSRB3	277.3618889	44.8106328	55.55863657
LEMD3	606.4539714	598.3049306	507.8059383
UQCC4	38.52248457	58.91768387	101.1167186
TLR10	41.82441182	8.298265334	1.111172731
TLR1	343.4004339	106.2177963	235.5686191
TLR6	139.7815869	52.2790716	47.78042745
FAM174A	121.0706658	316.1639092	83.33795486
RGMB	669.1905891	72.1949084	433.3573653
FAM53A	3.301927249	1.659653067	60.0033275
NWD2	23.11349074	2.4894796	151.1194915
CYB561D1	68.23982981	99.579184	167.7870824
GSTA3	5.503212081	2.4894796	13.33407278
ZDHHC24	67.13918739	58.91768387	138.8965914
ENSG0000	2.201284833	10.78774493	0
TRMT10C	247.6445437	458.0642464	150.0083187
SELP	132.07709	12.447398	30.00166375
CTU2	42.92505424	42.3211532	87.78264578
MGA	3617.811622	3422.204624	2189.010281

KICS2	159.5931504	58.91768387	62.22567296
ARL13A	0	5.808785734	0
SNX31	34.11991491	23.23514293	35.55752741
PIGG	345.6017187	341.8885317	1458.969796
PRPF8	0	1.659653067	2.222345463
ADCY6	1187.593167	288.7796336	992.2772492
REP15	17.61027866	5.808785734	10.00055458
PITPNA	1023.597447	955.1303399	636.7019751
DDX23	1274.543918	936.0443296	1140.063222
ZNF80	6.603854498	1.659653067	3.333518194
ZNHIT2	74.84368431	69.7054288	235.5686191
EVX2	15.40899383	1.659653067	0
ZBTB4	1.100642416	0	0
ZHX3	2464.33837	602.4540632	2812.378183
PHLDA3	52.83083598	9.9579184	34.44635467
DIRC1	2.201284833	0.829826533	6.667036389
SLC16A11	12.10706658	26.55444907	30.00166375
SLC16A13	22.01284833	44.8106328	40.00221833
GLIS1	147.4860838	8.298265334	144.4524551
OR2Y1	0	3.319306133	1.111172731
CHRNA9	5.503212081	33.19306133	5.555863657
PODN	632.8693894	28.21410213	473.3595836
SLC6A19	1.100642416	2.4894796	6.667036389
SNHG11	63.83726015	7.4684388	2.222345463
KCNJ5-AS	8.80513933	4.9789592	10.00055458
EXO1	29.71734524	304.5463377	1.111172731
RALGAPA	3470.325539	3020.568581	3316.850603
PMS2P6	2.201284833	0.829826533	3.333518194
CRMA	2.201284833	0.829826533	0
LIG4	537.1134992	520.3012364	237.7909645
MIR1-1HG	1.100642416	1.659653067	0
TRHR	2.201284833	6.638612267	3.333518194
GTF2IRD2	394.029985	68.87560227	161.1200461
ABRA	3.301927249	5.808785734	10.00055458
ATP2A2	2908.997906	5607.137886	2763.486583
ZWILCH	124.372593	375.0815931	105.5614095
RPL4	6168.000101	3815.5424	3802.433087
SNAPC5	147.4860838	74.684388	63.33684569
STARD6	3.301927249	10.78774493	0
VWC2L	3.301927249	10.78774493	10.00055458
C12orf76	20.91220591	34.8527144	57.78098203
ZCCHC12	13.207709	37.342194	12.22290005
CNTNAP2	551.4218506	163.4758271	1090.06045
GALNTL6	3.301927249	5.808785734	67.78153662

LINGO2	23.11349074	6.638612267	27.77931829
BBS1	14.30835141	6.638612267	34.44635467
DENND4A	2538.081412	1038.94282	1440.07986
IGDCC3	8.80513933	11.61757147	10.00055458
ANKRD36	908.0299934	1068.816575	1093.393968
SLC26A9	17.61027866	11.61757147	44.44690926
MFSD4A	19.81156349	48.12993894	18.88993643
PELI3	154.0899383	78.83352067	247.7915191
TTC9B	0	7.4684388	2.222345463
MYO1H	27.51606041	4.9789592	75.55974574
TMEM81	47.3276239	48.12993894	34.44635467
MRPL11	171.7002169	339.3990521	240.01331
KLK15	22.01284833	2.4894796	15.55641824
IL20RB	19.81156349	21.57548987	30.00166375
GOLT1A	42.92505424	4.149132667	67.78153662
RPL10P2	1.100642416	0	3.333518194
AKIRIN1	248.7451861	605.7733694	334.4629922
NPAS4	13.207709	122.8143269	36.66870014
MSL2	1741.216303	2084.524252	1001.166631
ZNF497	29.71734524	39.00184707	47.78042745
TRAM1L1	9.905781747	49.789592	40.00221833
CMKLR1	282.865101	83.81247987	102.2278913
ANGEL2	1219.511797	722.7789106	803.3778848
UGT8	11.00642416	783.3562475	11.11172731
KY	18.71092108	9.9579184	8.889381852
IQCK	169.4989321	159.3266944	198.8999189
SLCO2A1	472.1755966	146.8792964	198.8999189
ZNF266	499.691657	755.1421454	687.8159208
OR7D4	0	0	11.11172731
SLC29A2	200.3169198	185.0513169	260.0144192
BRSK2	0	35.68254093	0
VN1R6P	0	0	11.11172731
FAM47DP	3.301927249	0	11.11172731
GRIK1-AS	1.100642416	0	0
B4GAT1	170.5995745	97.91953094	327.7959558
TMEM167	160.6937928	363.4640216	78.89326393
SH3PXD2I	619.6616804	1448.047301	887.8270124
PPIAP72	11.00642416	1.659653067	8.889381852
RESF1	2991.546087	3779.030033	1505.639051
LARP7	565.730202	383.3798584	286.6825647
FGFBP3	14.30835141	27.3842756	14.44524551
NR1D2	827.6830971	1290.380259	930.0515762
PABPC5	33.01927249	440.6378892	33.33518194
BRMS1	96.85653263	185.0513169	152.2306642

RPL15	1777.537502	2521.842835	1886.771298
FAM241A	92.45396297	33.19306133	74.44857301
HRAS	11.00642416	14.9368776	20.00110917
WDR49	56.13276323	23.23514293	26.66814555
SRP72	1650.963624	1975.816976	826.7125122
PCP2	7.704496914	5.808785734	18.88993643
RIN1	35.22055732	23.23514293	28.89049102
ODAPH	6.603854498	1.659653067	1.111172731
THAP6	192.6124229	170.1144393	221.1233736
CEP135	248.7451861	598.3049306	130.0072096
FZD4	747.3362007	321.9726949	1203.400068
CD248	592.14562	201.6478476	184.4546734
BTC	13.207709	5.808785734	54.44746384
PDZK1	2.201284833	1.659653067	11.11172731
ADGRE1	20.91220591	10.78774493	27.77931829
DENND6A	511.7987236	591.6663183	345.5747195
PDE12	516.2012932	418.2325728	563.3645748
GLMN	189.3104956	329.4411337	303.3501557
DNAH12	99.05781747	58.91768387	200.0110917
YIF1A	241.0406892	209.1162864	480.02662
CNIH2	19.81156349	89.6212656	17.7787637
AMY1B	13.207709	7.4684388	3.333518194
NLRP6	3.301927249	3.319306133	10.00055458
NDUFA11	1.100642416	0	1.111172731
RSRC1	302.6766645	646.4348695	198.8999189
CATSPER1	3.301927249	24.894796	31.11283648
SLC66A1L	3.301927249	9.128091867	14.44524551
RAB1B	815.5760305	778.3772883	720.03993
METTL15	9.905781747	8.298265334	23.33462736
OR9G1	0	0	4.444690926
PTDSS2	48.42826632	34.02288787	126.6736914
MICOS13	100.1584599	179.2425312	341.1300286
C3orf33	16.50963624	19.08601027	15.55641824
VN2R1P	1.100642416	0	0
SEZ6L2	303.7773069	3137.574123	2950.163602
ASPHD1	7.704496914	64.7264696	10.00055458
KCTD13	335.695937	458.0642464	436.6908835
P2RY14	51.73019357	24.894796	76.67091847
AMZ1	11.00642416	2.4894796	8.889381852
GPR171	41.82441182	5.808785734	13.33407278
GPR149	8.80513933	8.298265334	167.7870824
CD164L2	12.10706658	1.659653067	12.22290005
FUT1	50.62955115	204.1373272	70.00388208
DHX36	956.4582598	1435.599903	1630.090397

OR5J2	3.301927249	4.9789592	11.11172731
ZIC4	7.704496914	12.447398	25.55697282
OR10AG1	3.301927249	1.659653067	0
PAIP1P2	16.50963624	19.08601027	22.22345463
OR4S2	4.402569665	0.829826533	1.111172731
FBXW8	337.8972218	182.5618373	521.140011
CA5A	2.201284833	5.808785734	3.333518194
ZG16	2.201284833	0	6.667036389
KLC2	305.9785917	877.1266458	682.2600571
SLC22A1	19.81156349	9.128091867	45.55808199
TEX36	2.201284833	6.638612267	0
CTBP2	744.0342734	864.6792478	964.4979309
CHST2	49.52890873	270.5234499	260.0144192
ZDHHC14	770.4496914	241.4795212	484.4713109
ATR	2951.922961	3394.820348	2670.148074
SNHG29	125.4732355	477.1502567	16.66759097
UBE2C	24.21413316	458.894073	16.66759097
DSG4	11.00642416	7.4684388	7.77820912
GK5	1626.749491	266.3743172	530.0293929
VCPIP1	2518.269848	2857.922581	2212.344908
DES	4983.708861	1.659653067	1.111172731
PDIK1L	147.4860838	490.4274812	127.7848641
SPSB4	9.905781747	35.68254093	3.333518194
RAG2	6.603854498	2.4894796	4.444690926
TRAF6	363.2119974	253.9269192	151.1194915
ZNF654	779.2548307	462.2133791	454.4696472
TVP23C	246.5439013	302.0568581	255.5697282
MRPS22	370.9164943	610.7523286	261.1255919
PACS1	977.3704657	638.9664307	1318.962032
WFDC5	6.603854498	0	21.1122819
MARCKSI	190.411138	916.1284928	291.1272556
SH3BP5L	179.4047139	185.8811435	333.3518194
TMEM51-/	16.50963624	17.4263572	15.55641824
YPEL2	137.580302	92.1107452	67.78153662
CADM2	23.11349074	3.319306133	8.889381852
ABO	11.00642416	17.4263572	23.33462736
PSMD2	967.4646839	2922.649051	2729.040228
FAM182B	24.21413316	17.4263572	17.7787637
PPM1E	124.372593	940.1934623	28.89049102
FAM131A	90.25267814	106.2177963	294.4607738
CSRP2	144.1841565	508.683665	650.0360479
INHBC	5.503212081	6.638612267	1.111172731
PARL	23.11349074	29.04392867	54.44746384
DDIT3	80.34689639	64.7264696	60.0033275

PCCA	845.2933757	568.4311754	622.2567296
DCTN2	569.0321292	518.6415834	538.9187747
NPPA	1.100642416	1.659653067	0
ZNF408	63.83726015	126.9634596	181.1211552
CTDSP2	489.7858753	293.7585928	292.2384284
CKAP5	3267.807334	10631.73755	2921.273111
ARHGAP1	895.9229269	429.0203178	777.820912
MED16	494.1884449	432.3396239	1790.09927
ATG13	751.7387703	1238.931014	1213.400623
GAL3ST3	19.81156349	7.4684388	14.44524551
C1orf127	1.100642416	221.5636844	33.33518194
CHST1	45.12633907	2146.761242	13.33407278
GOLGA8A	102.3597447	46.47028587	90.00499125
TP53I11	368.7152095	851.4020232	1277.848641
CENPS	0	2.4894796	0
DOLK	629.5674621	547.685512	773.3762211
PHYHD1	41.82441182	17.4263572	15.55641824
CATSPER	2.201284833	4.9789592	45.55808199
ANKRD30	3.301927249	1.659653067	0
CCNE2	49.52890873	3488.590746	81.11560939
PHYKPL	840.8908061	421.551879	805.6002303
CST6	3.301927249	0	0
GRAMD2A	70.44111464	27.3842756	22.22345463
NF1P5	2.201284833	2.4894796	0
ZNF519	152.9892959	239.8198681	18.88993643
LSM1	418.2441182	763.4404107	243.3468282
ISX	4.402569665	0.829826533	14.44524551
BANF1	300.4753796	858.870462	380.0210742
APOF	15.40899383	1.659653067	17.7787637
TMEM9B	115.5674537	141.9003372	308.9060193
NRIP3	24.21413316	68.04577574	1128.951495
PTPN2	528.3083598	806.5913904	363.3534832
SCUBE2	1660.869406	15.76670413	20083.33595
EIF1AD	138.6809445	285.4603275	135.5630732
SMAD2	935.5460539	1411.534933	1150.063777
EIF3F	681.2976557	492.0871343	432.2461925
ZNF25	578.937911	479.6397363	256.680901
OR10P1	6.603854498	0	3.333518194
ARL10	41.82441182	101.2388371	154.4530097
CLTB	198.1156349	217.4145517	553.3640203
PCSK1	6.603854498	958.449646	41.11339106
LPL	51.73019357	546.8556855	101.1167186
RFESD	17.61027866	16.59653067	0
CCDC14	3257.901552	3361.627287	2527.917964

TBC1D10(	29.71734524	5.808785734	18.88993643
SART1	549.2205657	585.027706	495.5830382
PPP2R2D	620.7623228	777.5474618	442.2467471
MCTP1	245.4432588	389.1886441	501.1389019
POLD4	36.32119974	7.4684388	46.66925472
OR52W1	1.100642416	0.829826533	3.333518194
LRRC25	25.31477557	29.8737552	11.11172731
DPP10	16.50963624	2.4894796	11.11172731
CLCF1	34.11991491	22.4053164	41.11339106
ACRP1	189.3104956	5.808785734	26.66814555
TSGA10IP	0	1.659653067	7.77820912
GPR152	1.100642416	1.659653067	11.11172731
UBQLNL	33.01927249	21.57548987	23.33462736
UBQLN3	15.40899383	42.3211532	46.66925472
PNLIP	8.80513933	14.10705107	25.55697282
LIPT2	36.32119974	25.72462253	25.55697282
KCNE3	25.31477557	12.447398	8.889381852
CABP4	38.52248457	90.45109214	27.77931829
ALG10B	247.6445437	468.0221648	323.3512648
DRAP1	346.7023611	706.1823799	685.5935753
LONRF3	125.4732355	138.5810311	281.1267011
UCP3	34.11991491	32.3632348	117.7843095
UCP2	310.3811614	1141.84131	220.0122008
C11orf68	155.1905807	171.7740924	383.3545923
PAAF1	401.7344819	473.8309506	381.1322469
MRPL48	249.8458285	380.0605523	131.1183823
RAB6A	1389.010729	2033.904833	1364.520114
P2RY2	27.51606041	7.4684388	0
FOSL1	12.10706658	9.128091867	6.667036389
ERCC4	424.8479727	507.0240119	483.3601382
SUGCT	56.13276323	34.02288787	37.77987287
CCDC85B	100.1584599	55.59837774	192.2328825
ENSG0000	0	2.4894796	0
TMEM70	203.618847	322.8025215	193.3440553
ERCC6L2-	23.11349074	33.19306133	23.33462736
OR4B1	0	0.829826533	13.33407278
RPS6KB2	176.1027866	209.1162864	336.6853376
RMI2	11.00642416	89.6212656	7.77820912
PRM1	0	0.829826533	0
TOM1L2	1021.396162	331.9306133	1137.840877
TEX26	2.201284833	0	0
ZNF77	135.3790172	179.2425312	124.4513459
GPR156	9.905781747	15.76670413	102.2278913
MTLN	13.207709	19.9158368	25.55697282

KDF1	121.0706658	283.8006744	291.1272556
B3GNTL1	26.41541799	23.23514293	25.55697282
RBMXL3	3.301927249	1.659653067	1.111172731
MLXIP	37.42184215	34.8527144	7.77820912
LINC0287	0	0	1.111172731
BAK1P1	25.31477557	19.08601027	23.33462736
RWDD4P2	11.00642416	34.8527144	24.44580009
NR2F1	773.7516187	145.2196433	413.3562561
AURKAIP	113.3661689	171.7740924	395.5774924
TTLL11	419.3447606	99.579184	145.5636278
EIF4E1B	1.100642416	1.659653067	11.11172731
TOMM5	11.00642416	46.47028587	1.111172731
LINC0110	34.11991491	17.4263572	2.222345463
ZBTB44-D	1.100642416	0	0
LINC0269	5.503212081	0	0
SLC35E3	281.7644586	240.6496947	342.2412013
PRIMA1	0	1.659653067	0
ZNF169	195.9143501	100.4090105	254.4585555
RUVBL1	475.4775238	1190.801075	713.3728936
SFN	282.865101	499.5555731	27.77931829
OR52B3P	0	0.829826533	0
CBLL2	1.100642416	0.829826533	4.444690926
CCDC168	134.2783748	74.684388	122.2290005
CTDNEP1	78.14561156	190.0302761	247.7915191
ETV4	29.71734524	137.7512045	186.6770189
SWI5	198.1156349	204.1373272	276.6820101
GAPT	47.3276239	5.808785734	0
BAIAP2	583.3404806	303.7165112	565.5869203
CALCB	0	28.21410213	11.11172731
CREG2	12.10706658	6.638612267	23.33462736
TMEM270	0	3.319306133	5.555863657
HOXD8	52.83083598	250.6076131	81.11560939
RPL7AP66	0	4.149132667	2.222345463
ZDHHC21	325.7901552	512.8327976	251.1250373
TSPEAR	4.402569665	67.2159492	7.77820912
PLEKHF2	336.7965794	390.8482972	298.9054648
A2M	29017.33666	2943.394714	3357.963994
ARL4D	35.22055732	68.04577574	142.2301096
DOK7	17.61027866	2.4894796	6.667036389
LRRN1	2895.790197	617.3909408	13617.42182
UBE2O	538.2141416	526.9398487	897.827567
ORAI3	42.92505424	8.298265334	31.11283648
KLHL38	4.402569665	1.659653067	24.44580009
UNC119B	401.7344819	497.89592	336.6853376

DENND2C	206.9207743	119.4950208	342.2412013
PLEKHD1	8.80513933	18.25618373	32.22400921
FAM220B	0	0	3.333518194
ASCL3	0	11.61757147	3.333518194
TUBB6	482.0813783	418.2325728	662.2589479
LYSMD3	674.6938012	413.2536136	285.571392
B3GALT6	46.22698148	58.91768387	260.0144192
ZNF613	650.479668	252.2672661	213.3451644
C11orf16	2.201284833	4.149132667	0
TMPRSS7	19.81156349	13.27722453	32.22400921
NUPR1	41.82441182	4.149132667	32.22400921
JAKMIP2	64.93790256	2160.038466	31.11283648
MBLAC2	55.03212081	26.55444907	77.7820912
TPRN	299.3747372	171.7740924	327.7959558
KCNE5	6.603854498	0.829826533	0
ZNF683	17.61027866	0.829826533	13.33407278
SLC35A4	113.3661689	157.6670413	318.9065739
CRYBG2	20.91220591	69.7054288	40.00221833
IP6K1	392.9293426	357.6552359	392.2439742
SSNA1	72.64239948	161.816174	197.7887462
CSTF3	619.6616804	1321.913668	441.1355744
YES1	1080.830853	2009.010037	1064.503477
CHMP6	78.14561156	73.85456147	132.229555
DLEU1	25.31477557	48.95976547	11.11172731
UFSP1	11.00642416	4.9789592	13.33407278
TMEM39A	812.2741032	375.9114196	406.6892197
TCP11L1	214.6252712	250.6076131	122.2290005
GPX2	15.40899383	39.8316736	190.0105371
CCDC57	659.2848074	370.1026339	652.2583934
HSF5	17.61027866	5.808785734	4.444690926
FOXG1	15.40899383	126.1336331	93.33850944
SPHK1	18.71092108	14.9368776	84.44912759
BNIP3	425.9486151	1984.945068	640.0354933
ENTHD1	13.207709	2.4894796	0
MYPOP	118.869381	148.5389495	182.232328
ENSG0000	1.100642416	0	1.111172731
CIDEA	1.100642416	3.319306133	31.11283648
OR11H4	0	0	1.111172731
OR4D11	2.201284833	1.659653067	0
LRRTM4	56.13276323	4.9789592	34.44635467
ATAD5	184.9079259	1482.070189	87.78264578
SMIM19	230.034265	365.1236747	203.3446099
ZNF404	154.0899383	112.026582	377.7987287
RTTN	367.614567	631.4979919	447.8026108

OR10H4	0	0	7.77820912
RPP38-DT	9.905781747	7.4684388	14.44524551
OR51B6	1.100642416	0	0
CDV3P1	3.301927249	2.4894796	3.333518194
ACBD7	4.402569665	81.32300027	15.55641824
ANAPC2	355.5075005	271.3532764	1017.834222
HMGB4	0	0.829826533	0
ZBTB8OS	191.5117804	393.3377768	213.3451644
CYCSP34	6.603854498	9.9579184	2.222345463
OR4F21	5.503212081	5.808785734	0
SLC35G1	16.50963624	104.5581432	108.8949277
IDSP1	2.201284833	0	0
OR4K3	0	0	1.111172731
ZNF135	374.2184215	375.0815931	517.8064929
OR4M1	23.11349074	8.298265334	5.555863657
FOXN3P1	3.301927249	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
COX8A	51.73019357	161.816174	178.8988098
ENSG0000	0	0.829826533	0
TAC4	1.100642416	1.659653067	1.111172731
ZSCAN2	9.905781747	4.149132667	1.111172731
PRR18	5.503212081	29.8737552	2.222345463
B3GNT4	27.51606041	19.9158368	26.66814555
CDC26	111.164884	83.81247987	37.77987287
HSD11B2	35.22055732	123.6441535	50.00277291
CRLF3	312.5824462	658.8822675	234.4574463
RNPEP	588.8436927	853.8915028	1196.733032
EID2	73.74304189	131.1125923	86.67147305
DMRTA1	221.2291257	189.2004496	311.1283648
EID2B	22.01284833	112.026582	84.44912759
GJC3	12.10706658	0.829826533	0
RIMS2	244.3426164	3570.743573	157.7865279
KCMF1	724.2227099	1765.041036	720.03993
DNAJC30	181.6059987	85.47213294	136.674246
SPRYD4	302.6766645	263.0550111	323.3512648
VPS37D	5.503212081	9.128091867	3.333518194
CLEC14A	104.5610295	122.8143269	72.22622754
SYNE3	123.2719506	120.3248473	122.2290005
CLK2	0	0.829826533	0
LPCAT4	7.704496914	4.9789592	0
SLCO3A1	182.7066411	444.7870219	75.55974574
ZNF575	62.73661773	29.8737552	53.33629111
WDR25	190.411138	175.9232251	287.7937374
SGF29	130.9764475	168.4547863	102.2278913

PLAAT3	275.1606041	326.9516541	613.3673478
DIRAS1	56.13276323	212.4355925	37.77987287
OR5AN1	7.704496914	0	5.555863657
ENSG0000	0	1.659653067	0
PHLDB3	292.7708827	127.7932861	425.5791561
PRR15	6.603854498	2.4894796	20.00110917
GNG7	63.83726015	43.15097974	137.7854187
OR4C5	3.301927249	0	8.889381852
USF3	4753.674596	3145.872388	3690.204641
OR4C3	0	0	28.89049102
CNTD1	48.42826632	6.638612267	26.66814555
DCAF4L2	1.100642416	3.319306133	20.00110917
OR4X1	0	0.829826533	0
CNBD1	11.00642416	5.808785734	7.77820912
DMBT1L1	2.201284833	3.319306133	0
ENSG0000	25.31477557	67.2159492	6.667036389
B3GNT5	132.07709	1343.489158	62.22567296
MAP3K19	78.14561156	4.9789592	23.33462736
LINC0291	0	2.4894796	0
LMNB2	159.5931504	604.1137163	387.7992833
RMDN1	373.1177791	882.105605	485.5824836
MEX3C	577.8372686	900.3617887	552.2528475
HORMAD	2.201284833	0.829826533	7.77820912
RNF152	89.15203572	93.77039827	82.22678213
MYO1D	2361.978625	4878.55019	3120.17303
LINC0291(	8.80513933	4.149132667	1.111172731
FOXL1	14.30835141	5.808785734	23.33462736
LRRC37A	95.75589022	85.47213294	93.33850944
FOXC2	4.402569665	48.12993894	416.6897743
OR4F17	3.301927249	0	0
BDNF	88.0513933	3.319306133	55.55863657
CCDC121	254.2483982	261.395358	173.3429461
ACSF3	199.2162773	209.9461129	220.0122008
BOK	106.7623144	118.6651943	97.78320037
ZNF843	6.603854498	4.149132667	7.77820912
TTTY14	28.61670282	5.808785734	0
RBIS	190.411138	570.0908284	177.787637
PFN4	8.80513933	39.00184707	7.77820912
OR51V1	2.201284833	0	3.333518194
MAGEB6	2.201284833	0	0
CDK5R1	19.81156349	373.42194	24.44580009
PAK6-AS1	0	0	1.111172731
LINC0030	0	0	1.111172731
ZNF285BP	2.201284833	5.808785734	0

TCERG1L	8.80513933	96.25987787	7.77820912
NCKAP5	405.0364092	819.0387884	112.2284459
MAGEB18	3.301927249	0	1.111172731
RUFY1	99.05781747	14.9368776	35.55752741
BASP1	275.1606041	146.8792964	148.897146
OR51L1	45.12633907	7.4684388	17.7787637
LRRC37A2	287.2676707	112.8564085	613.3673478
FKBP9P1	5.503212081	0.829826533	4.444690926
VSIG10	202.5182046	360.1447155	436.6908835
MIR7-3HG	0	7.4684388	1.111172731
IRX5	55.03212081	175.9232251	91.11616398
METRNL	2.201284833	0.829826533	5.555863657
FAM91A1	761.6445521	1815.660455	785.5991211
KRT18P28	0	0	1.111172731
GJA1P1	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
WSB2	516.2012932	1726.869016	1520.084297
ENSG0000	1.100642416	0	0
GRIN1	18.71092108	13.27722453	27.77931829
SOX11	5.503212081	418.2325728	135.5630732
TYMS	71.54175706	2760.00305	32.22400921
OR51G2	4.402569665	0.829826533	7.77820912
PXMP2	7.704496914	64.7264696	14.44524551
OR51A7	24.21413316	2.4894796	45.55808199
TCEANC	64.93790256	70.53525534	51.11394565
OR51T1	52.83083598	4.149132667	31.11283648
PNMA1	808.972176	1077.11484	763.3756665
TCIM	156.2912231	150.1986025	40.00221833
MAMSTR	24.21413316	59.7475104	80.00443666
TYMSOS	6.603854498	19.9158368	17.7787637
ANKLE2	1035.704514	1704.4637	1411.189369
C8G	2.201284833	4.9789592	0
FUT2	6.603854498	23.23514293	0
OR51S1	1.100642416	1.659653067	6.667036389
OR7A15P	3.301927249	0.829826533	0
OR51F2	146.3854414	6.638612267	20.00110917
EFCAB5	52.83083598	63.89664307	5.555863657
GCNT4	81.44753881	14.10705107	41.11339106
TOB2P1	4.402569665	31.53340827	14.44524551
MUC20	3.301927249	0	16.66759097
THAP4	502.9935842	654.7331348	823.378994
OR51N1P	8.80513933	2.4894796	0
NFATC2IP	214.6252712	555.9837774	223.345719
LY6H	4.402569665	0	0

FIBIN	62.73661773	34.02288787	350.0194104
FAM89B	5.503212081	15.76670413	2.222345463
SHMT1	11.00642416	17.4263572	44.44690926
DPP7	482.0813783	308.6954704	1902.327716
TRIM60	1.100642416	4.149132667	0
SEC24C	2091.220591	1866.279874	3072.392602
FMR1NB	103.4603871	0	0
SMCR8	20.91220591	15.76670413	17.7787637
MTHFR	366.5139246	242.3093477	825.6013395
C19orf18	33.01927249	22.4053164	58.89215477
DEAF1	254.2483982	221.5636844	483.3601382
MTX3	282.865101	291.2691132	143.3412824
TMEM80	88.0513933	118.6651943	97.78320037
SIX5	252.0471133	104.5581432	378.9099014
IFNW1	1.100642416	0	0
FBXO46	304.8779493	701.2034207	856.7141759
ZDHHC13	270.7580344	944.342595	223.345719
SLC38A9	265.2548223	252.2672661	1051.169404
ACER2	57.23340565	53.93872467	152.2306642
WDR73	44.02569665	1.659653067	21.1122819
POLE	974.0685384	3552.487389	953.3862036
PHETA2	9.905781747	9.128091867	8.889381852
SCN4B	27.51606041	33.19306133	18.88993643
DSCAML1	46.22698148	82.98265334	45.55808199
RHOG	212.4239863	182.5618373	220.0122008
EPS8L2	396.2312699	57.2580308	483.3601382
ZDHHC22	0	28.21410213	10.00055458
IRAG1-AS	2.201284833	1.659653067	0
ANO6	2401.601752	1151.799228	774.4873938
ZBTB34	249.8458285	350.1867971	214.4563372
PRDM16-I	0	0.829826533	0
FAM9B	3.301927249	0.829826533	0
CETN1	1.100642416	1.659653067	0
NUDT4B	7.704496914	2.4894796	4.444690926
FAM210A	84.74946605	221.5636844	121.1178277
OR2T35	0	0	1.111172731
TALDO1	747.3362007	719.4596044	616.7008659
ULK1	489.7858753	824.8475742	1190.065995
NAP1L4P1	6.603854498	8.298265334	1.111172731
OR14C36	1.100642416	0.829826533	10.00055458
RIMKLA	86.95075089	460.553726	80.00443666
CLVS1	3.301927249	9.128091867	10.00055458
OR2M7	8.80513933	1.659653067	11.11172731
RPS6KA3	1339.481821	1430.620944	1004.500149

B3GNT8	22.01284833	146.0494699	116.6731368
PUS1	108.9635992	224.8829905	247.7915191
PCNPP5	14.30835141	4.149132667	1.111172731
CHD9	6164.698174	2429.73209	2539.029691
OR2T12	3.301927249	0	17.7787637
SPACA4	0	0.829826533	0
OR2T33	2.201284833	0.829826533	14.44524551
GATD1	246.5439013	174.263572	247.7915191
OR2M1P	2.201284833	4.149132667	44.44690926
LINC0156	1.100642416	0	1.111172731
TRIM72	6.603854498	14.10705107	8.889381852
MAN1B1	903.6274238	866.3389008	1942.329935
DEFB4B	0	0.829826533	0
ENSAP3	0	0	1.111172731
KCNA3	85.85010847	151.0284291	21.1122819
OR2AJ1	4.402569665	4.9789592	13.33407278
FZD8	112.2655265	50.61941854	63.33684569
GJD4	2.201284833	1.659653067	0
FBXO39	3.301927249	9.128091867	21.1122819
CLDN22	0	1.659653067	8.889381852
KCNA2	38.52248457	8.298265334	73.33740027
TOP3A	18.71092108	52.2790716	25.55697282
CASKIN2	221.2291257	302.8866847	353.3529286
ZBTB38	2437.922952	830.6563599	688.9270935
BEND2	3.301927249	25.72462253	6.667036389
LINC0290	3.301927249	0	0
DLGAP1-A	20.91220591	49.789592	2.222345463
LINC0046	0	0.829826533	6.667036389
RPL13AP3	1.100642416	0	0
CCDC71	336.7965794	204.9671537	233.3462736
C10orf71	6.603854498	4.149132667	28.89049102
ENSG0000	1.100642416	15.76670413	4.444690926
LRRN4CL	12.10706658	3.319306133	38.8910456
FLJ40194	1.100642416	4.149132667	0
HIC1	200.3169198	63.06681654	180.0099825
PPFIA3	20.91220591	145.2196433	73.33740027
MAGEF1	422.6466879	1040.602473	591.1438931
UMODL1	14.30835141	17.4263572	20.00110917
NINJ2-AS1	11.00642416	18.25618373	3.333518194
SAMD9L	1188.69381	238.1602151	341.1300286
ZFAS1	26.41541799	66.38612267	3.333518194
UBE2U	7.704496914	3.319306133	5.555863657
ENSG0000	1.100642416	2.4894796	1.111172731
PAWR	622.9636076	840.6142783	514.4729747

TGIF1	670.2912315	661.3717471	566.698093
MIEF2	1.100642416	0	18.88993643
NAP1L5	37.42184215	1.659653067	42.22456379
CBX3P1	0	0.829826533	0
NIM1K	6.603854498	6.638612267	6.667036389
CD19	8.80513933	2.4894796	17.7787637
ERICH5	111.164884	195.0092353	86.67147305
OR2T8	3.301927249	7.4684388	18.88993643
NR2C2	893.721642	1272.124076	972.27614
GPR4	16.50963624	63.89664307	110.0061004
ACOT4	3.301927249	11.61757147	1.111172731
OLIG3	1.100642416	4.149132667	3.333518194
CAVIN1	1169.982889	175.9232251	726.7069664
OR2G3	1.100642416	1.659653067	7.77820912
ARIH2	849.6959454	615.7312878	541.1411202
RBM44	45.12633907	21.57548987	5.555863657
ZBTB33	928.9421994	1002.430452	398.9110106
OR2G2	0	0	3.333518194
ZBED2	1.100642416	1.659653067	4.444690926
VCX2	1.100642416	0	0
IRX3	89.15203572	174.263572	90.00499125
ST8SIA3	5.503212081	453.9151138	25.55697282
RPRM	6.603854498	31.53340827	15.55641824
OR2B11	2.201284833	4.9789592	7.77820912
SLC25A22	51.73019357	53.93872467	113.3396186
RABEP2	190.411138	158.4968679	612.256175
NHLH2	5.503212081	9.9579184	0
C1orf167-A	0	0	2.222345463
ATOX1	166.1970049	170.1144393	210.0116462
FAM187B	0	0.829826533	11.11172731
TBL1XR1	5475.696021	3528.42242	3014.61162
SAMD12	122.1713082	402.4658687	260.0144192
CD163	2018.578191	1935.155476	4715.817072
C18orf32	11.00642416	11.61757147	6.667036389
PIDD1	52.83083598	172.6039189	336.6853376
ENSG0000	0	0.829826533	0
ZNF491	55.03212081	81.32300027	101.1167186
RPLP2	1040.107083	857.210809	1306.739132
HASPIN	15.40899383	302.0568581	8.889381852
JUN	1731.310521	1987.434547	2295.682863
CSTF2T	514.0000084	40.66150013	275.5708374
PGBD5	17.61027866	289.6094601	86.67147305
C12orf54	4.402569665	4.9789592	2.222345463
GBA1	4.402569665	33.19306133	12.22290005

CASC2	31.91863007	90.45109214	3.333518194
ACAD9	759.4432672	801.6124312	758.9309756
IL17RA	490.8865177	288.7796336	498.9165564
PNPLA2	451.2633907	274.6725825	993.3884219
MBOAT4	3.301927249	0	2.222345463
TEX44	0	0.829826533	0
AGTRAP	104.5610295	92.1107452	241.1244827
CD163L1	397.3319123	111.1967555	161.1200461
SRRM3	8.80513933	50.61941854	11.11172731
THAP5	471.0749542	421.551879	141.1189369
DEFB114	2.201284833	0.829826533	0
CRACR2B	168.3982897	9.9579184	14.44524551
SUMO4	17.61027866	0.829826533	3.333518194
MAGEB10	2.201284833	2.4894796	0
DNAJC28	2.201284833	4.9789592	2.222345463
NAALADI	1134.762331	72.1949084	2227.901327
CD151	258.6509678	109.5371024	608.9226568
ENSG0000	2.201284833	0	0
POLR2L	608.6552562	353.5061032	283.3490465
FAM20C	9.905781747	3.319306133	7.77820912
NECTIN3	916.8351328	463.8730322	714.4840663
SLC35G5	0	0	3.333518194
ANXA2R	14.30835141	9.128091867	0
ENSG0000	1.100642416	3.319306133	0
TMEM94	829.8843819	799.9527782	2277.904099
FLII	384.1242033	102.8984901	53.33629111
SOX12	359.9100701	472.1712975	320.0177467
HNRNPA0	509.5974387	1189.141422	865.6035578
FXNP2	5.503212081	4.9789592	3.333518194
ANXA2R-(	13.207709	35.68254093	2.222345463
YIPF7	7.704496914	3.319306133	7.77820912
CDKN2AI	1.100642416	3.319306133	3.333518194
RPS2P2	0	0.829826533	0
RAB4A-AS	31.91863007	61.40716347	2.222345463
MYOZ1	6.603854498	3.319306133	7.77820912
TMEM78	3.301927249	0	0
YWHAQP4	1.100642416	0	0
KCNJ10	5.503212081	0	2.222345463
TENM3-AS	0	4.9789592	0
CHID1	220.1284833	441.4677158	1525.64016
ZNF620	102.3597447	371.7622869	90.00499125
ZNF518A	1442.942208	1554.265097	1784.543407
TMEM187	15.40899383	46.47028587	51.11394565
CACYBPP	1.100642416	9.9579184	6.667036389

SVBP	104.5610295	264.7146641	108.8949277
ZNF619	237.7387619	165.9653067	168.8982552
CCDC184	5.503212081	14.10705107	0
AP3S1	125.4732355	177.5828781	110.0061004
GRB2	633.9700318	1029.814728	1047.835886
ZBTB41	823.2805274	1407.385801	623.3679023
UBE2N	873.9100785	1614.012607	505.5835928
SPATA31(	3.301927249	8.298265334	67.78153662
ARL6IP6	199.2162773	742.6947474	163.3423915
ZNF354C	176.1027866	511.1731446	143.3412824
CAPZA3	6.603854498	8.298265334	1.111172731
MAMDC4	55.03212081	159.3266944	404.4668742
CENPBD1	40.7237694	101.2388371	57.78098203
ODF3	1.100642416	0.829826533	6.667036389
BET1L	129.8758051	73.02473494	82.22678213
RPS27	319.1863007	527.7696752	135.5630732
RIC8A	271.8586768	297.9077255	804.4890576
IMP3	219.0278408	126.9634596	233.3462736
ASB8	307.0792341	205.7969803	338.9076831
LCN15	2.201284833	9.128091867	6.667036389
ODF3B	169.4989321	24.894796	25.55697282
DPY19L2	770.4496914	244.7988273	226.6792372
SPATA31I	8.80513933	2.4894796	25.55697282
ZNRF3-AS	1.100642416	0	0
C2orf73	4.402569665	8.298265334	4.444690926
GPR150	5.503212081	0.829826533	0
TSPYL6	2.201284833	0.829826533	18.88993643
LRRC75B	108.9635992	17.4263572	191.1217098
DMAP1	367.614567	231.5216028	407.8003924
ADAMTSI	356.6081429	67.2159492	204.4557826
CALHM5	34.11991491	14.9368776	44.44690926
IMPDH2	12.10706658	0.829826533	4.444690926
ALS2CL	63.83726015	167.6249597	57.78098203
MLF1	115.5674537	570.920655	380.0210742
PRSS42P	19.81156349	5.808785734	6.667036389
NDUFAF3	208.0214167	189.2004496	410.0227379
C2orf69	193.7130653	679.6279308	140.0077642
GRAMD1(	118.869381	296.2480724	168.8982552
STAP2	287.2676707	36.51236747	271.1261465
TWF1P1	85.85010847	78.83352067	66.67036389
HTR3C	3.301927249	2.4894796	14.44524551
TSSK6	26.41541799	26.55444907	71.11505481
BOLA1	26.41541799	60.57733694	93.33850944
PDE4DIP	836.4882364	446.446675	367.7981741

DDX10	379.7216336	291.2691132	182.232328
GOLGA8Q	2.201284833	0.829826533	4.444690926
PPP1R42	19.81156349	7.4684388	44.44690926
NDUFV2	193.7130653	224.053164	45.55808199
GK4P	0	24.894796	5.555863657
DALRD3	86.95075089	56.42820427	182.232328
ZNF114	14.30835141	146.0494699	27.77931829
ZNF518B	1332.877966	1674.589944	1644.535643
AMER3	0	103.7283167	1.111172731
SPINK6	1.100642416	3.319306133	0
ZNF366	58.33404806	27.3842756	46.66925472
LCORL	249.8458285	287.1199805	288.9049102
PARD6G	71.54175706	128.6231127	151.1194915
ZNF454	45.12633907	31.53340827	65.55919115
SH2B1	545.9186385	453.0852872	1154.508468
ZC3H12D	20.91220591	7.4684388	44.44690926
VN1R1	11.00642416	29.8737552	61.11450023
POGLUT3	392.9293426	375.9114196	304.4613284
PLEC	19567.22088	12541.1684	50873.93234
SH2D4B	4.402569665	8.298265334	8.889381852
RNF212	14.30835141	0.829826533	18.88993643
PRSS36	24.21413316	18.25618373	68.89270935
ZNF543	209.1220591	419.8922259	412.2450834
TMEM151	2.201284833	11.61757147	0
GALNT11	600.9507593	337.7393991	637.8131478
SLITRK1	7.704496914	34.02288787	27.77931829
LINC0290	0	0	1.111172731
WDR6	2587.610321	2442.179488	3774.653769
TNP2	0	0.829826533	3.333518194
GEN1	256.449683	815.7194823	464.4702017
TMPRSS9	4.402569665	10.78774493	10.00055458
AQP11	92.45396297	46.47028587	111.1172731
TMEM11	257.5503254	358.4850624	151.1194915
ZNF354B	341.1991491	352.6762767	222.2345463
KCNG2	1.100642416	3.319306133	6.667036389
SHISA3	3.301927249	1.659653067	27.77931829
OR2D3	2.201284833	0	35.55752741
CALML3	12.10706658	1215.695871	2.222345463
CALML5	1.100642416	36.51236747	0
ZFAND2A	112.2655265	105.3879697	70.00388208
PLEKHM3	531.6102871	610.7523286	1034.501813
ZNF223	12.10706658	2.4894796	2.222345463
HTR1A	1.100642416	4.9789592	16.66759097
CCDC185	7.704496914	1.659653067	11.11172731

DNAJC22	11.00642416	83.81247987	50.00277291
NEUROG2	3.301927249	0.829826533	0
CEP295NL	27.51606041	10.78774493	21.1122819
BEND3	165.0963624	216.5847252	137.7854187
NT5DC1	435.8543969	411.5939605	393.3551469
RPS3AP5	5.503212081	5.808785734	1.111172731
TIMM23B	9.905781747	6.638612267	0
GLDC	33.01927249	244.7988273	188.8993643
COX14	31.91863007	53.93872467	27.77931829
LINC0031	1.100642416	0	0
H3P16	24.21413316	20.74566333	22.22345463
MCMDC2	61.63597531	63.06681654	47.78042745
TUBAL3	4.402569665	12.447398	3.333518194
RPL10P16	154.0899383	48.12993894	97.78320037
P4HTM	302.6766645	172.6039189	322.2400921
UCN3	2.201284833	0.829826533	0
DTX3	359.9100701	151.8582556	345.5747195
KLHL11	650.479668	972.5566971	660.0366025
NECAP1P	0	0	1.111172731
AMBN	6.603854498	2.4894796	10.00055458
CTXN1	37.42184215	181.7320108	110.0061004
SLC25A20	112.2655265	19.9158368	70.00388208
CA8	16.50963624	81.32300027	44.44690926
CD28	38.52248457	19.08601027	4.444690926
EPM2AIP1	880.513933	640.6260838	734.4851755
ERBB4	37.42184215	546.8556855	520.0288383
MAF	1309.764475	369.2728073	1102.28335
CTNNBIP1	34.11991491	79.6633472	93.33850944
OR6B3	0	0	21.1122819
DEFB125	2.201284833	0	21.1122819
PSAPL1	4.402569665	2.4894796	30.00166375
OTOS	0	1.659653067	1.111172731
ERN1	742.933631	264.7146641	523.3623565
GPR35	14.30835141	22.4053164	118.8954823
ACTG1P1	3.301927249	2.4894796	3.333518194
C10orf53	3.301927249	2.4894796	0
PPIAP33	2.201284833	0.829826533	0
ARMC10P	0	2.4894796	1.111172731
CSRNP3	110.0642416	317.8235623	8.889381852
ZNF713	232.2355498	343.5481848	74.44857301
PARP10	268.5567496	353.5061032	243.3468282
DYNAP	1.100642416	0.829826533	10.00055458
SUZ12	759.4432672	2210.657885	506.6947655
NSUN3	300.4753796	445.6168484	223.345719

KCTD12	346.7023611	1469.622791	304.4613284
DHFR2	94.6552478	130.2827657	87.78264578
ENSG0000	0	0.829826533	0
RPP25	41.82441182	76.34404107	24.44580009
GRINA	2162.762348	1791.595486	3673.53705
C5orf64	4.402569665	4.9789592	1.111172731
GLULP4	0	3.319306133	2.222345463
THBD	48.42826632	1315.275055	343.352374
GP5	8.80513933	5.808785734	7.77820912
LMO7DN	0	1.659653067	0
COX5A	451.2633907	1112.797381	382.2434196
STX19	71.54175706	28.21410213	31.11283648
ERFE	1.100642416	51.44924507	0
FAM219B	91.35332055	72.1949084	96.67202764
H2BC2P	2.201284833	0	0
ZHX2	1351.588887	201.6478476	1157.841986
CPN2	0	6.638612267	10.00055458
CPNE7	89.15203572	14.9368776	46.66925472
C5orf46	9.905781747	0.829826533	0
GDPD4	5.503212081	6.638612267	36.66870014
RIIAD1	3.301927249	2.4894796	16.66759097
MPI	465.5717421	180.0723577	360.019965
H1-8	0	1.659653067	5.555863657
TRIM73	17.61027866	5.808785734	10.00055458
OPLAH	321.3875856	461.3835526	1093.393968
TMEM52	16.50963624	97.91953094	26.66814555
TMEM139	0	0	27.77931829
RNF186	2.201284833	33.19306133	10.00055458
EFCAB13	137.580302	63.06681654	111.1172731
MSC	30.81798766	4.149132667	8.889381852
APOLD1	45.12633907	283.8006744	66.67036389
RFLNA	39.62312699	9.128091867	277.7931829
EXOSC4	6.603854498	7.4684388	8.889381852
DPY19L3	463.3704573	596.6452775	670.0371571
TAF7	1120.45398	975.8760032	871.1594214
ZNF852	6.603854498	4.149132667	13.33407278
FOXE1	22.01284833	106.2177963	68.89270935
PFAS	338.9978642	492.0871343	631.1461115
HYI	162.8950776	51.44924507	171.1206006
CYBC1	238.8394043	382.5500319	1104.505695
TPRX1	4.402569665	0	1.111172731
LGALS7B	0	0.829826533	0
ZNF552	603.1520441	262.2251845	645.591357
SMIM10L2	5.503212081	9.128091867	15.55641824

GAK	884.9165027	608.262849	3389.076831
ZBTB7A	1412.12422	450.5958076	1004.500149
TUFM	832.0856667	1117.77634	1303.405614
ERICH3	28.61670282	59.7475104	63.33684569
RMI1	267.4561072	1028.984901	407.8003924
CTC1	517.3019357	774.2281556	1640.090952
FBXO34	554.7237778	646.4348695	714.4840663
LINC0032	0	3.319306133	0
SELENOW	216.826556	531.9188079	387.7992833
MRFAP1L	236.6381195	264.7146641	323.3512648
SNX18	392.9293426	225.7128171	292.2384284
EXD1	4.402569665	9.128091867	41.11339106
AURKB	24.21413316	344.3780113	11.11172731
TAS1R2	2.201284833	3.319306133	13.33407278
C14orf39	41.82441182	16.59653067	26.66814555
MRFAP1	533.8115719	640.6260838	932.2739217
C3orf38	599.8501169	872.9775131	455.5808199
KLHDC7A	61.63597531	26.55444907	34.44635467
TMEM107	44.02569665	266.3743172	45.55808199
NSA2P3	1.100642416	1.659653067	0
RRS1	184.9079259	203.3075007	101.1167186
EXOC3L1	4.402569665	10.78774493	20.00110917
TRIML2	1.100642416	2.4894796	4.444690926
RCC2	12.10706658	44.8106328	218.9010281
OR13D1	12.10706658	2.4894796	15.55641824
IGSF22	8.80513933	2.4894796	33.33518194
C9orf50	2.201284833	4.149132667	16.66759097
ZFP42	1.100642416	0.829826533	6.667036389
ENSG0000	0	1.659653067	0
CCDC89	17.61027866	9.128091867	23.33462736
LINC0291	23.11349074	12.447398	16.66759097
FAM133A	4.402569665	0	2.222345463
DPM3	89.15203572	97.91953094	177.787637
C12orf42	17.61027866	84.6423064	0
CYC1	287.2676707	868.8283804	816.7119576
PER1	1821.563199	1412.36476	2073.448317
HTR1F	25.31477557	4.149132667	625.5902478
H3P47	0	4.149132667	1.111172731
TMTC2	704.4111464	1390.78927	620.0343841
HES7	1.100642416	13.27722453	7.77820912
FARSA	537.1134992	689.5858492	1084.504586
SPTY2D1	516.2012932	552.6644712	608.9226568
C10orf67	14.30835141	13.27722453	6.667036389
SAMD4B	662.5867346	830.6563599	1461.192142

LINC0067(	2.201284833	0	0
MTUS2-AS	0	0.829826533	0
CYP11B2	0	0.829826533	23.33462736
GIMAP7	183.8072835	60.57733694	14.44524551
ALOXE3	23.11349074	13.27722453	43.33573653
EDC3	733.0278493	386.6991645	435.5797107
TCAIM	345.6017187	188.3706231	141.1189369
FUCA1	643.8758135	349.3569705	1234.512905
PXT1	0	2.4894796	7.77820912
GGN	39.62312699	4.149132667	37.77987287
TMEM125	72.64239948	19.08601027	61.11450023
ZNF664	1074.226998	2421.433824	977.8320037
SIGLECL1	7.704496914	5.808785734	21.1122819
CALR	6602.753855	10031.77296	5984.776332
LINC0031	1.100642416	6.638612267	0
MAGED1	4343.134975	1843.874557	2533.473828
GVQW3	113.3661689	151.8582556	60.0033275
LDLRAD3	160.6937928	136.921378	187.7881916
CDH4	1.100642416	4.9789592	17.7787637
SMCO3	17.61027866	1.659653067	167.7870824
RAD23A	987.2762474	1191.630902	1291.182714
PCARE	24.21413316	15.76670413	126.6736914
GADD45G	99.05781747	158.4968679	190.0105371
MEIS3P1	5.503212081	54.7685512	35.55752741
DAND5	0	24.894796	0
TMEM151	20.91220591	24.894796	4.444690926
PTPN11	1088.53535	2193.231528	852.269485
NSUN7	561.3276323	149.368776	503.3612473
RTL3	2.201284833	0.829826533	0
FAM156B	3.301927249	0.829826533	2.222345463
WSCD1	7.704496914	24.894796	32.22400921
RAB39A	17.61027866	308.6954704	22.22345463
CLK3	783.6574004	361.8043685	458.9143381
ENSG0000	1.100642416	0.829826533	0
HLA-DQB	680.1970133	147.7091229	181.1211552
GATA2	1967.94864	43.15097974	5640.312785
ARID3B	105.661672	82.98265334	77.7820912
HMGN2P4	64.93790256	2.4894796	34.44635467
TMEM31	13.207709	3.319306133	23.33462736
PACS2	1130.359762	675.4787982	1646.757988
OR4K11P	2.201284833	0.829826533	0
ELMOD2	386.3254881	580.8785734	244.4580009
EGR3	124.372593	68.04577574	64.44801842
CATSPER1	170.5995745	93.77039827	186.6770189

GPC5	20.91220591	17.4263572	11.11172731
VWA1	127.6745203	66.38612267	353.3529286
LINC0017	37.42184215	23.23514293	6.667036389
DNAJB8	4.402569665	0	16.66759097
GEMIN4	381.9229185	467.1923383	775.5985665
IL6-AS1	1.100642416	0	0
FJX1	25.31477557	22.4053164	2.222345463
SLC24A3-	0	0	1.111172731
KLHL28	347.8030036	477.1502567	567.8092658
MKRN3	0	5.808785734	0
ZBTB18	1009.289096	1028.155075	583.365684
EEF1A1P2	2.201284833	0	0
C14orf28	95.75589022	57.2580308	53.33629111
ALOX12B	20.91220591	18.25618373	36.66870014
SLC17A8	16.50963624	5.808785734	3.333518194
EIF3J-DT	19.81156349	22.4053164	4.444690926
SHARPIN	369.8158519	505.3643588	778.9320847
LBX2	2.201284833	2.4894796	0
DNHD1	347.8030036	208.2864599	821.1566485
SLITRK4	61.63597531	280.4813683	34.44635467
HTR1D	16.50963624	53.10889814	38.8910456
GCC1	235.5374771	169.2846128	215.5675099
LSMEM2	0	0.829826533	0
NBPF17P	7.704496914	0.829826533	15.55641824
ENSG0000	1.100642416	0.829826533	0
CIITA	608.6552562	53.10889814	326.684783
ZFPM1	255.3490406	160.1565209	204.4557826
ALOX15B	715.4175706	14.9368776	88.89381852
PLD6	33.01927249	17.4263572	36.66870014
GPHB5	6.603854498	1.659653067	1.111172731
GRM8	13.207709	473.001124	58.89215477
CDC42EP4	243.241974	289.6094601	500.0277291
DGKZP1	78.14561156	121.1546739	137.7854187
OR2AP1	2.201284833	1.659653067	0
OR6C4	3.301927249	0	23.33462736
ZBTB42	211.3233439	65.55629614	268.903801
LACC1	90.25267814	70.53525534	15.55641824
MAF1	599.8501169	1020.686636	918.9398489
TPPP2	0	0.829826533	15.55641824
FCER1A	14.30835141	0	0
RPRML	0	3.319306133	6.667036389
ARL14	1.100642416	0.829826533	3.333518194
OR6C2	1.100642416	1.659653067	10.00055458
WDR97	79.24625397	68.87560227	190.0105371

NLRP8	6.603854498	2.4894796	14.44524551
PCED1B	187.1092108	25.72462253	193.3440553
SPEN-AS1	6.603854498	31.53340827	2.222345463
APOBEC3	44.02569665	4.9789592	0
SYCN	1.100642416	0	0
PIPOX	19.81156349	27.3842756	13.33407278
FOXS1	25.31477557	14.9368776	2.222345463
ATOH7	3.301927249	34.8527144	4.444690926
CDH5	158.4925079	198.3285415	195.5664007
LRRC3B	5.503212081	32.3632348	14.44524551
FAM216B	2.201284833	0	0
MRGPRX4	0	3.319306133	6.667036389
PCBP1-AS	92.45396297	95.43005134	11.11172731
MYADM	895.9229269	463.0432056	234.4574463
MROH1	607.5546138	960.1092991	2940.163047
SERTAD2	275.1606041	291.2691132	206.678128
AKAP5	15.40899383	127.7932861	21.1122819
NKPD1	20.91220591	19.08601027	42.22456379
GIPC3	9.905781747	22.4053164	5.555863657
RNF227	5.503212081	15.76670413	3.333518194
CITED4	18.71092108	15.76670413	74.44857301
ABCA13	35.22055732	25.72462253	5.555863657
NLRP11	13.207709	8.298265334	11.11172731
TIGD5	1.100642416	1.659653067	3.333518194
PDXDC1	198.1156349	84.6423064	44.44690926
PHC1P1	63.83726015	115.3458881	80.00443666
CFAP276	20.91220591	57.2580308	18.88993643
ZNF154	88.0513933	39.8316736	56.6698093
R3HDM2	700.0085768	312.8446031	453.3584744
B3GNT3	47.3276239	16.59653067	83.33795486
ITLN1	7.704496914	1.659653067	6.667036389
NRXN1	106.7623144	125.3038065	1296.738578
SEPHS2	498.5910146	689.5858492	567.8092658
OR10A7	1.100642416	2.4894796	27.77931829
GPBAR1	3.301927249	3.319306133	0
ZNF784	40.7237694	36.51236747	36.66870014
ZNF648	8.80513933	10.78774493	32.22400921
C14orf119	184.9079259	295.4182459	283.3490465
CCR8	33.01927249	40.66150013	0
LINC0065	0	1.659653067	0
BBS10	845.2933757	1123.585126	588.9215477
FIZ1	78.14561156	140.2406841	205.5669553
PUF60	62.73661773	192.5197557	85.56030032
SSC5D	1237.122076	161.816174	604.4779659

DCTPP1	89.15203572	547.685512	188.8993643
ZNF771	36.32119974	43.98080627	76.67091847
PPP1R14B	15.40899383	24.894796	2.222345463
NAIPP2	3.301927249	2.4894796	0
TSHZ1	823.2805274	394.9974299	333.3518194
PSTK	56.13276323	60.57733694	93.33850944
SPDYE7P	0	1.659653067	0
SOCS4	463.3704573	1410.705107	284.4602192
PTGR3	456.7666028	494.5766139	316.6842285
ENSG0000	14.30835141	5.808785734	2.222345463
OR1E1	2.201284833	0.829826533	0
ENSG0000	0	2.4894796	0
ZNF48	230.034265	477.1502567	271.1261465
GARIN5B	1.100642416	1.659653067	13.33407278
C3orf80	3.301927249	3.319306133	0
NKX2-6	4.402569665	0	0
TMEM150	4.402569665	4.149132667	8.889381852
LINC0287(	2.201284833	102.0686636	15.55641824
ANKRD18	694.5053647	698.7139411	588.9215477
WFDC11	2.201284833	1.659653067	4.444690926
TMEM86E	12.10706658	4.9789592	2.222345463
OR3A1	3.301927249	1.659653067	4.444690926
SEPTIN1	73.74304189	62.23699	52.22511838
TRNAU1A	122.1713082	287.9498071	123.3401732
EXOC3	822.179885	651.4138287	1415.63406
ACER2P1	0	0.829826533	1.111172731
TDRD6	94.6552478	39.00184707	274.4596647
C12orf40	4.402569665	4.149132667	0
CSNK1A1	5.503212081	10.78774493	1.111172731
ACTA2-AS	8.80513933	0	2.222345463
XIAPP3	1.100642416	1.659653067	0
LYNX1	49.52890873	396.6570829	17.7787637
TH	3.301927249	6.638612267	0
MED14	2677.862999	3650.40692	3441.301949
FAHD1	121.0706658	194.1794088	105.5614095
TDRP	121.0706658	152.6880821	273.3484919
RCC1	135.3790172	331.9306133	183.3435007
WFDC9	2.201284833	0.829826533	0
MYL11	1.100642416	2.4894796	8.889381852
F2	2.201284833	5.808785734	7.77820912
ENSG0000	99.05781747	191.6899292	101.1167186
GARIN6	2.201284833	2.4894796	0
TPT1P10	1.100642416	2.4894796	0
PRKRA	604.2526865	1282.081994	531.1405656

ZNRF2	99.05781747	75.51421454	66.67036389
RRH	36.32119974	17.4263572	33.33518194
SLC9A4	7.704496914	3.319306133	52.22511838
ZNF816	405.0364092	252.2672661	244.4580009
FGD6	1336.179893	1321.083841	1902.327716
ADGRD2	3.301927249	6.638612267	15.55641824
GPR139	1.100642416	2.4894796	11.11172731
TMEM277	1.100642416	0.829826533	0
PLD5	5.503212081	4.149132667	41.11339106
OAZ2	255.3490406	333.5902664	263.3479374
PNPLA1	7.704496914	11.61757147	15.55641824
ALX1	16.50963624	29.04392867	18.88993643
CCDC43	215.7259136	339.3990521	95.5608549
KCTD4	2.201284833	0.829826533	0
MEIOC	25.31477557	1302.827657	20.00110917
FZD2	110.0642416	206.6268068	267.7926283
TIGD2	210.2227015	255.5865723	123.3401732
ITPRID1	20.91220591	21.57548987	28.89049102
HCLS1	471.0749542	206.6268068	394.4663197
MTURN	177.203429	248.1181335	244.4580009
ZNF609	2295.94008	1023.176116	827.8236849
PAK2	1174.385458	1804.87271	1147.841432
CCDC66	647.1777408	358.4850624	191.1217098
DEFB124	1.100642416	0.829826533	0
EMC3-AS1	14.30835141	95.43005134	17.7787637
ATP5F1EP	1.100642416	0	0
MCFD2	263.0535375	359.3148889	230.0127554
LINC00304	2.201284833	1.659653067	0
HARBI1	46.22698148	93.77039827	92.22733671
DEFB123	0	2.4894796	5.555863657
C11orf71	47.3276239	94.6002248	320.0177467
CYP8B1	1.100642416	0.829826533	10.00055458
OR6K6	0	0.829826533	0
TPRXL	3.301927249	14.10705107	1.111172731
SERTM1	3.301927249	37.342194	101.1167186
GAS1	36.32119974	48.12993894	155.5641824
ARHGAP4	172.8008594	73.85456147	284.4602192
ENSG0000	3.301927249	4.149132667	10.00055458
OR10Q1	0	0.829826533	4.444690926
ZNF571	270.7580344	326.1218276	215.5675099
GLIPR1L2	25.31477557	16.59653067	61.11450023
DEFB119	0	0	18.88993643
MIGA1	889.3190724	817.3791354	934.4962671
KCNE1	13.207709	7.4684388	0

DIP2C-AS	9.905781747	3.319306133	6.667036389
NRIP1	3731.177791	1154.288708	7445.968473
ZSCAN4	3.301927249	2.4894796	21.1122819
BHLHA15	24.21413316	9.9579184	4.444690926
RNF182	7.704496914	276.3322356	248.9026918
LINC02908	1.100642416	5.808785734	3.333518194
TSPYL5	430.3511848	1482.070189	663.3701207
FUT7	2.201284833	4.149132667	17.7787637
H2AC6	861.803012	1523.561515	1233.401732
EIF2S3B	872.8094361	1054.709524	293.3496011
SRP9P1	14.30835141	20.74566333	7.77820912
SKIDA1	29.71734524	80.49317374	66.67036389
H2BC4	1858.985041	3624.682298	1097.838659
ZBTB12BI	2.201284833	0	3.333518194
MB21D2	69.34047223	12.447398	17.7787637
GSX2	1.100642416	1.659653067	4.444690926
SSTR2	18.71092108	16.59653067	463.359029
ZNF594	559.1263475	709.501686	602.2556204
PCGF5	355.5075005	751.8228392	297.794292
SLC47A2	4.402569665	45.64045934	15.55641824
PRF1	42.92505424	7.4684388	35.55752741
OR2A4	0	0.829826533	3.333518194
MAB21L1	280.6638162	1.659653067	28.89049102
VN1R3	1.100642416	0	30.00166375
YOD1	275.1606041	515.3222772	168.8982552
EXOC5P1	3.301927249	9.9579184	14.44524551
TMEM64	395.1306275	287.9498071	275.5708374
C3orf22	2.201284833	9.128091867	0
OR10K2	11.00642416	0.829826533	3.333518194
LINC0236	0	2.4894796	0
CHRM4	6.603854498	253.9269192	38.8910456
SHISA2	7.704496914	1498.666719	36.66870014
S1PR5	26.41541799	37.342194	40.00221833
CLRN3	0	1.659653067	2.222345463
GPR157	34.11991491	19.08601027	102.2278913
PIPSL	15.40899383	31.53340827	8.889381852
CHST13	7.704496914	15.76670413	10.00055458
WDFY3-A	7.704496914	8.298265334	1.111172731
AGTR2	4.402569665	0.829826533	8.889381852
SLC36A4	243.241974	2742.576693	154.4530097
ZDHHC20	368.7152095	661.3717471	495.5830382
ANKRD30	17.61027866	0.829826533	5.555863657
OR51E1	847.4946605	5.808785734	1016.723049
ZFP3	366.5139246	482.9590424	243.3468282

ARSJ	1057.717362	1038.112993	204.4557826
HOXC9	1.100642416	20.74566333	0
MAP3K15	9.905781747	25.72462253	52.22511838
PPA1	336.7965794	596.6452775	293.3496011
HOXC10	0	76.34404107	3.333518194
PSMG4	132.07709	181.7320108	146.6748005
BHLHE22	8.80513933	0.829826533	22.22345463
MAP6D1	4.402569665	4.9789592	5.555863657
ZNF443	346.7023611	409.1044809	696.7053026
PDIA3P1	806.7708911	1028.984901	325.5736103
LINC01555	1.100642416	0	0
CXCR2	9.905781747	63.06681654	12.22290005
DEFB112	1.100642416	0	0
GREM2	15.40899383	2.4894796	0
C11orf42	5.503212081	0	0
SSR4	446.860821	741.0350943	1041.168849
CAPS2	268.5567496	321.9726949	453.3584744
ZNF792	212.4239863	283.8006744	297.794292
CUEDC1	257.5503254	308.6954704	205.5669553
SCRIB	85.85010847	164.3056536	525.584702
KCTD2	140.8822293	160.9863475	175.5652916
D2HGDH	402.8351244	184.2214904	1894.549507
OXTR	13.207709	51.44924507	36.66870014
CMTR2	62.73661773	58.91768387	31.11283648
OR56B4	1.100642416	1.659653067	10.00055458
FAM83H	27.51606041	18.25618373	106.6725822
GPR62	4.402569665	0	0
OR56A1	0	15.76670413	2.222345463
ZNF572	106.7623144	336.079746	105.5614095
ST20	6.603854498	4.149132667	5.555863657
PITPNB	615.2591107	487.1081751	281.1267011
TCEAL8	318.0856583	541.8767263	138.8965914
OR52E4	0	0	21.1122819
LRRC57	26.41541799	66.38612267	10.00055458
OR52N2	0	4.149132667	3.333518194
MRPL14	117.7687385	344.3780113	285.571392
GPR137C	28.61670282	308.6954704	81.11560939
C1orf105	7.704496914	8.298265334	23.33462736
OR52N1	3.301927249	23.23514293	8.889381852
BBS12	107.8629568	212.4355925	111.1172731
ZFP82	172.8008594	360.1447155	172.2317734
OR52N5	6.603854498	0	0
LSMEM1	0	3.319306133	0
NQO1	26.41541799	152.6880821	137.7854187

OR56B1	5.503212081	1.659653067	0
AEN	67.13918739	75.51421454	34.44635467
FKRP	79.24625397	132.7722453	295.5719466
TRAPPC5	8.80513933	5.808785734	4.444690926
RPH3AL	2.201284833	9.128091867	5.555863657
SLC25A42	108.9635992	96.25987787	80.00443666
FCRL6	11.00642416	8.298265334	18.88993643
METTL23	96.85653263	109.5371024	77.7820912
SLC26A11	139.7815869	100.4090105	744.4857301
HIGD1A	13.207709	35.68254093	12.22290005
CHRM2	1.100642416	0	37.77987287
OR52N4	8.80513933	1.659653067	0
MAPK15	0	0	2.222345463
EHMT1	1466.055699	1466.303484	2089.004735
ADIPOQ	0	0.829826533	0
ENTR1P2	2.201284833	0	0
F2R	352.2055732	196.6688884	148.897146
ENSG0000	2.201284833	0	0
ZNF707	12.10706658	14.9368776	4.444690926
MUC16	2.201284833	1.659653067	0
NPM1	926.7409145	2077.88564	341.1300286
PJA1	850.7965878	1028.984901	583.365684
DHTKD1	628.4668197	931.0653704	1332.296105
PENK	7.704496914	4.149132667	138.8965914
HECW1-IT	1.100642416	0	0
OR8G2P	2.201284833	10.78774493	1.111172731
C4orf50	11.00642416	21.57548987	35.55752741
H2AC25	3.301927249	4.149132667	5.555863657
ZNF746	296.07281	174.263572	212.2339917
POLR2A	63.83726015	323.632348	45.55808199
DLSTP1	5.503212081	0	4.444690926
TMEM132	50.62955115	21.57548987	1170.064886
SLC25A41	6.603854498	2.4894796	15.55641824
MTHFD2P	2.201284833	0.829826533	0
TLCD5	22.01284833	43.15097974	105.5614095
OR5AK2	3.301927249	0	12.22290005
FRAT2	14.30835141	43.98080627	25.55697282
TMEM132	8.80513933	19.9158368	25.55697282
ZNF322	0	15.76670413	0
NME9	26.41541799	8.298265334	18.88993643
HEPHL1	11.00642416	9.9579184	32.22400921
LRRC75A	68.23982981	71.36508187	47.78042745
OFCC1	8.80513933	0.829826533	21.1122819
CTAGE10]	4.402569665	0	3.333518194

HSP90AA(	0	6.638612267	0
CCL13	1.100642416	0	8.889381852
CFAP65	28.61670282	175.9232251	143.3412824
DDX60L	489.7858753	255.5865723	325.5736103
SYNE4	94.6552478	46.47028587	144.4524551
OGFOD3	381.9229185	331.1007868	838.9354122
WASHC1	61.63597531	39.8316736	50.00277291
UTS2R	2.201284833	3.319306133	4.444690926
AATK	41.82441182	78.00369414	117.7843095
DDN	0	6.638612267	27.77931829
SAGE1	8.80513933	4.9789592	2.222345463
ZNF467	205.8201318	50.61941854	147.7859733
SOX2	33.01927249	431.5097974	7.77820912
ZNF678	409.4389789	376.7412461	218.9010281
TMEM45A	49.52890873	105.3879697	54.44746384
RAP2B	285.0663858	167.6249597	391.1328015
ZBTB2	341.1991491	411.5939605	451.136129
RNF135	4.402569665	0.829826533	5.555863657
OR6T1	1.100642416	0	3.333518194
ACBD4	152.9892959	58.91768387	237.7909645
ENSG0000	0	0.829826533	5.555863657
OR8D4	5.503212081	0.829826533	0
SGSH	679.0963709	134.4318984	985.6102128
RPL24P4	183.8072835	239.8198681	228.9015827
MAB21L2	4.402569665	18.25618373	0
FANCB	48.42826632	356.8254093	68.89270935
EDDM3B	1.100642416	0	0
SETD2	9229.987303	4759.884995	3892.438078
EDDM3A	0	2.4894796	0
LINC0304(	3.301927249	7.4684388	0
TMIE	4.402569665	13.27722453	2.222345463
MEX3D	303.7773069	538.5574202	1035.612986
OR52D1	2.201284833	3.319306133	13.33407278
MRPS23	183.8072835	473.8309506	266.6814555
OR52H1	26.41541799	25.72462253	50.00277291
FDCSP	1.100642416	1.659653067	0
GPR135	148.5867262	38.17202053	170.0094279
SLX1B	0	1.659653067	0
ANKRD62	16.50963624	31.53340827	35.55752741
P2RY13	97.95717505	27.3842756	37.77987287
TNFSF15	377.5203488	29.04392867	71.11505481
ZFP41	29.71734524	65.55629614	6.667036389
ATG9B	33.01927249	17.4263572	44.44690926
GPR88	103.4603871	1.659653067	2.222345463

ZNF875	1081.931495	1019.85681	992.2772492
PLAG1	45.12633907	18.25618373	27.77931829
YIPF6	320.2869431	471.341471	605.5891386
ZBTB20	2636.038587	884.5950846	1681.204343
FDX1P1	1.100642416	0.829826533	1.111172731
DIPK2A	124.372593	502.0450527	366.6870014
MACIR	118.869381	117.0055412	412.2450834
OR8K5	7.704496914	0	17.7787637
AMIGO1	190.411138	28.21410213	120.006655
OR8H3	5.503212081	0	0
OR8H2	5.503212081	2.4894796	3.333518194
GPR3	1.100642416	32.3632348	6.667036389
TMEM252	0	2.4894796	0
ODF3L2	4.402569665	4.149132667	21.1122819
ACTL9	1.100642416	1.659653067	21.1122819
SIAH2	347.8030036	349.3569705	518.9176656
COPG1	2518.269848	1589.947638	3553.530395
ADGRB1	44.02569665	918.6179724	56.6698093
LINC0047	1.100642416	10.78774493	1.111172731
OR6S1	1.100642416	0	4.444690926
SLC9A9	447.9614634	57.2580308	177.787637
LSM10	115.5674537	190.8601027	342.2412013
KCTD9P2	0	3.319306133	0
RELL1	309.280519	579.2189203	377.7987287
RFX7	2703.177774	1453.856086	983.3878673
SLC35C1	137.580302	103.7283167	198.8999189
TIGIT	25.31477557	1.659653067	27.77931829
RNF41	845.2933757	338.5692256	445.5802653
SLC2A4	9.905781747	0	0
FTMT	0	0	5.555863657
IBA57	64.93790256	78.00369414	92.22733671
CLDN7	3.301927249	6.638612267	1.111172731
ZNF329	338.9978642	393.3377768	432.2461925
ZNF101	152.9892959	402.4658687	121.1178277
OR4C6	0	1.659653067	18.88993643
C5orf24	140.8822293	475.4906036	161.1200461
LINC0272	5.503212081	0	1.111172731
ADO	132.07709	149.368776	145.5636278
COA4	158.4925079	277.1620621	231.1239281
OR4P4	7.704496914	3.319306133	15.55641824
PRKAG1	45.12633907	18.25618373	16.66759097
GINS3	1.100642416	79.6633472	12.22290005
OR4C15	0	3.319306133	22.22345463
OR4A15	3.301927249	2.4894796	20.00110917

OR4A16	7.704496914	0	2.222345463
OR52K2	1.100642416	1.659653067	15.55641824
NEUROG1	0	5.808785734	0
PYY3	0	0	1.111172731
CCDC149	272.9593192	151.0284291	210.0116462
MRPS11	281.7644586	255.5865723	133.3407278
LINC0030	2.201284833	0	0
AQP7P2	1.100642416	0	6.667036389
PPIAP73	0	0	2.222345463
SNRPE	85.85010847	225.7128171	42.22456379
RTKN2	179.4047139	521.131063	58.89215477
PNMA8A	99.05781747	341.8885317	336.6853376
CHST15	311.4818038	288.7796336	1087.838104
ADIG	4.402569665	2.4894796	0
USH1G	4.402569665	15.76670413	11.11172731
MGAT4C	13.207709	296.2480724	86.67147305
TRIM49B	3.301927249	4.9789592	1.111172731
IDH2	1070.925071	1479.580709	607.8114841
OGFRP1	5.503212081	1.659653067	0
OR52A1	0	3.319306133	0
OR6B2	0	0.829826533	10.00055458
TMEM259	1129.259119	726.9280432	2140.118681
GET1	53.9314784	69.7054288	76.67091847
TNRC18	3939.199208	1091.221891	8121.561494
FAM181B	15.40899383	8.298265334	64.44801842
TMEM30E	622.9636076	585.8575326	1116.728595
DEXI	53.9314784	96.25987787	86.67147305
ZNF716	2.201284833	4.149132667	0
NOP10	25.31477557	48.12993894	6.667036389
FAM89A	3.301927249	41.49132667	3.333518194
KCNIP1	11.00642416	4.149132667	13.33407278
TDRKH	574.5353413	224.8829905	272.2373192
ZNF708	588.8436927	527.7696752	233.3462736
IST1	773.7516187	655.5629614	767.8203574
ERCC6L2	1282.248415	1116.116687	955.608549
MRPL41	313.6830886	197.4987149	397.7998379
ENPP7	6.603854498	0	0
CREB3L2	3218.278425	328.6113072	876.7152851
TP53TG1	3.301927249	4.9789592	0
UNC5C	171.7002169	11.61757147	520.0288383
MRGPRG	3.301927249	0.829826533	0
TSEN54	81.44753881	262.2251845	243.3468282
RGMA	135.3790172	32.3632348	108.8949277
ASB18	5.503212081	2.4894796	1.111172731

UBA7	422.6466879	34.8527144	228.9015827
MRPS16	220.1284833	786.6755536	508.917111
SHISAL2A	14.30835141	1.659653067	2.222345463
RAD51B	165.0963624	266.3743172	310.0171921
CRYGB	0	1.659653067	0
LDOC1	91.35332055	7.4684388	42.22456379
ARL6IP4	1.100642416	0.829826533	0
EXT1	1482.565335	2646.316815	2157.897444
SHMT2	335.695937	340.2288787	216.6786826
MOB2	15.40899383	1.659653067	11.11172731
HHIPL1	60.5353329	31.53340827	75.55974574
ATP6AP2	1273.443276	2150.910374	2274.570581
ZAR1	5.503212081	6.638612267	0
CYB5D1	86.95075089	80.49317374	134.4519005
BACE2	1007.087811	539.3872467	1193.399514
UBE2E2	597.648832	361.8043685	525.584702
SYNM	4891.254898	426.5308382	357.7976195
KCNA4	2.201284833	8.298265334	11.11172731
GABRG3	56.13276323	346.0376644	128.8960368
PRR34	4.402569665	4.9789592	2.222345463
FIGN	518.4025781	575.8996142	286.6825647
IZUMO1	15.40899383	29.8737552	35.55752741
TMIGD1	11.00642416	1.659653067	2.222345463
B4GALNT	72.64239948	184.2214904	131.1183823
AP1S2	193.7130653	339.3990521	88.89381852
C8orf33	9.905781747	4.9789592	3.333518194
DCAF4L1	8.80513933	1.659653067	17.7787637
SPACA6	56.13276323	58.08785734	103.339064
ZSCAN22	91.35332055	146.8792964	127.7848641
KCNJ14	4.402569665	9.128091867	45.55808199
C1S	5825.700309	633.157645	2343.463291
GLTPD2	1.100642416	3.319306133	7.77820912
KIAA2012	12.10706658	4.9789592	22.22345463
LIPF	6.603854498	0	5.555863657
DAOA	0	0	1.111172731
PDSS1P1	1.100642416	0.829826533	0
ZNF804B	15.40899383	431.5097974	36.66870014
KBTBD3	82.54818122	44.8106328	135.5630732
YBEY	140.8822293	281.3111948	88.89381852
FAM87A	0	1.659653067	0
NXPH4	197.0149925	146.0494699	41.11339106
CACNB4	79.24625397	63.89664307	80.00443666
TRAPPC6I	507.3961539	423.211532	92.22733671
PGBD4	69.34047223	82.98265334	50.00277291

NPLOC4	1349.387602	1607.373995	1625.645706
OTOL1	4.402569665	6.638612267	12.22290005
KCNK4	0	1.659653067	0
TEX19	1.100642416	0	16.66759097
TSHZ2	845.2933757	196.6688884	151.1194915
EXOC7	2558.993618	1440.578862	3842.435305
KPNA2	423.7473303	5027.089139	250.0138646
WASH6P	30.81798766	10.78774493	14.44524551
XKRX	23.11349074	105.3879697	67.78153662
BGN	4830.719565	1053.879697	578.9209931
CEP97	269.657392	1595.756424	316.6842285
LHFPL1	0	3.319306133	7.77820912
FES	127.6745203	71.36508187	218.9010281
GLRX5	213.5246288	370.9324604	243.3468282
FAM104B	214.6252712	335.2499195	221.1233736
TBPL2	0	4.9789592	26.66814555
OR7E115P	1.100642416	0	0
CAV3	2.201284833	0	5.555863657
MXRA7	165.0963624	68.04577574	135.5630732
LIMK2	443.5588938	308.6954704	484.4713109
MFSD5	146.3854414	107.8774493	266.6814555
ADI1	640.5738863	444.7870219	565.5869203
RWDD4	121.0706658	140.2406841	41.11339106
SPNS3	4.402569665	3.319306133	5.555863657
SATB1	1389.010729	493.7467874	2623.478819
CSGALNA	0	0	1.111172731
NXPH3	242.1413316	24.06496947	34.44635467
CSF1R	1012.591023	355.1657563	1498.972015
EPHB3	280.6638162	219.9040313	937.8297853
VCX	3.301927249	0	55.55863657
EPGN	3.301927249	2.4894796	4.444690926
KRTAP11-	0	0	1.111172731
SNORC	13.207709	9.128091867	23.33462736
HS3ST4	18.71092108	19.08601027	60.0033275
TRAK1	669.1905891	391.6781237	426.6903289
TSPAN10	28.61670282	21.57548987	74.44857301
OR2V2	1.100642416	1.659653067	40.00221833
PLCB1	1723.606024	1062.177963	291.1272556
SKA2	135.3790172	293.7585928	7.77820912
RXFP3	0	0	1.111172731
CCNYL2	0	0.829826533	0
OR10G7	6.603854498	0.829826533	0
NDN	0	0.829826533	0
CCDC172	3.301927249	3.319306133	0

RNF32-DT	6.603854498	14.10705107	2.222345463
OR4Q3	7.704496914	2.4894796	28.89049102
NTM	88.0513933	55.59837774	48.89160018
TTC3	10950.2914	7690.002485	4565.808753
KCNB2	15.40899383	1370.043607	25.55697282
BRICD5	4.402569665	33.19306133	16.66759097
GALR2	4.402569665	4.149132667	15.55641824
RESP18	3.301927249	3.319306133	1.111172731
IGIP	91.35332055	28.21410213	61.11450023
TSKU	453.4646755	94.6002248	455.5808199
ANXA2	1622.346922	800.7826047	1733.429461
RGS6	9.905781747	8.298265334	37.77987287
HOXB4	13.207709	108.7072759	50.00277291
SLC35D3	9.905781747	93.77039827	23.33462736
PAQR7	160.6937928	125.3038065	105.5614095
PAPPA	177.203429	55.59837774	85.56030032
MAFA	13.207709	12.447398	3.333518194
NGRN	56.13276323	58.08785734	58.89215477
GRID1	141.9828717	43.98080627	241.1244827
RPS17	1.100642416	0	0
HCAR2	37.42184215	38.17202053	35.55752741
CCDC87	67.13918739	120.3248473	124.4513459
GSTA5	1.100642416	0.829826533	0
C1orf116	3310.732388	50.61941854	340.0188558
TMEM198	55.03212081	30.70358173	6.667036389
MAGEB17	14.30835141	0	16.66759097
CRIP2	620.7623228	650.5840022	156.6753551
DDX28	75.94432672	114.5160616	157.7865279
FUNDC2P	1.100642416	9.128091867	0
KRTAP13-	0	0	3.333518194
FAM230E	0	0.829826533	0
ACBD3	2295.94008	1547.626485	1284.515678
HAPSTR1	726.4239948	726.0982167	731.1516573
PLCXD3	7.704496914	23.23514293	25.55697282
VMO1	9.905781747	14.9368776	24.44580009
OR4F15	0	3.319306133	5.555863657
ALG12	391.8287002	160.9863475	312.2395375
LCK	91.35332055	11.61757147	34.44635467
COL18A1	0	0.829826533	1.111172731
RBM10	970.7666112	653.0734818	1114.50625
PRKCZ-AS	2.201284833	2.4894796	0
ADGRG3	1.100642416	9.9579184	8.889381852
RPS27AP2	0	0.829826533	0
GLUD2	5.503212081	9.9579184	30.00166375

TCHHL1	2.201284833	3.319306133	11.11172731
RPL35A	1984.458277	2088.673384	1814.54507
RGS7	27.51606041	224.053164	20.00110917
SLC25A18	13.207709	1.659653067	24.44580009
ZNF721	1372.501093	1028.155075	1080.059895
TSPEAR-A	0	1.659653067	0
TCEAL7	18.71092108	4.149132667	13.33407278
C11orf54	158.4925079	76.34404107	98.8943731
GPATCH1	4.402569665	0	3.333518194
CEP63	94.6552478	138.5810311	42.22456379
WFDC10B	6.603854498	2.4894796	27.77931829
SRPRA	1231.618864	746.0140535	1206.733586
OTOP3	6.603854498	1.659653067	11.11172731
EWSR1	3529.760229	2260.447477	1526.751333
ODF3L1	0	5.808785734	2.222345463
SPATA13	181.6059987	60.57733694	110.0061004
GJC1	219.0278408	1134.372871	113.3396186
SOX1	6.603854498	0.829826533	0
CNOT10	1.100642416	0	0
MTA1	1176.586743	635.6471246	1652.313852
ZNF662	424.8479727	19.9158368	121.1178277
CADM1	1884.299817	2052.990844	1911.217098
ZNF320	1063.220574	627.3488592	646.7025297
C12orf60	19.81156349	24.894796	45.55808199
PYCR1	586.6424079	438.9782362	478.9154472
NAA38	419.3447606	654.7331348	865.6035578
SPNS2	62.73661773	29.04392867	47.78042745
MCEMP1	0	4.149132667	0
AP2A2	58.33404806	57.2580308	211.122819
SLC8A1	1530.993601	1905.281721	217.7898554
OR1G1	0	0.829826533	4.444690926
SLC25A21	29.71734524	81.32300027	82.22678213
OTOP2	0	0.829826533	2.222345463
CYLC1	1.100642416	4.149132667	2.222345463
PCP4	6.603854498	19.9158368	0
ABAT	264.1541799	662.2015736	298.9054648
SLC25A10	9.905781747	23.23514293	18.88993643
CAMK1D	151.8886534	2347.579263	125.5625187
RGPD6	123.2719506	53.93872467	85.56030032
FAM133CI	2.201284833	3.319306133	0
LYSMD4	107.8629568	68.04577574	146.6748005
WBP2NL	52.83083598	44.8106328	76.67091847
IGSF5	38.52248457	6.638612267	7.77820912
NKX2-5	1.100642416	1.659653067	0

AFMID	253.1477557	155.1775617	301.1278102
GAS6	780.3554732	836.4651456	588.9215477
FREM3	14.30835141	9.9579184	31.11283648
NEB	1193.096379	11215.1056	955.608549
BEGAIN	51.73019357	414.9132667	41.11339106
GPC6	170.5995745	649.7541756	491.1383473
ARHGEF3	334.5952946	30.70358173	261.1255919
FAM43B	7.704496914	4.9789592	4.444690926
CSMD1	37.42184215	12.447398	48.89160018
CALHM3	2.201284833	0.829826533	0
PTGDR2	5.503212081	8.298265334	43.33573653
CEP57L1	96.85653263	180.9021843	104.4502368
RIPPLY3	4.402569665	135.2617249	1.111172731
GPR19	4.402569665	71.36508187	12.22290005
GJD3	30.81798766	3.319306133	0
ENSG0000	1.100642416	1.659653067	1.111172731
RABIF	119.9700234	243.9690008	102.2278913
TMEM119	118.869381	25.72462253	10.00055458
FANCF	74.84368431	8.298265334	58.89215477
CALN1	5.503212081	24.894796	204.4557826
ENSG0000	30.81798766	63.06681654	47.78042745
GABRR3	5.503212081	3.319306133	4.444690926
C2CD4C	7.704496914	34.02288787	87.78264578
CHST6	24.21413316	44.8106328	1.111172731
HSP90AB3	34.11991491	58.08785734	51.11394565
POTEC	3.301927249	0.829826533	18.88993643
RUVBL2	302.6766645	626.5190327	578.9209931
GDPGP1	55.03212081	23.23514293	35.55752741
CTNNA3	186.0085684	52.2790716	73.33740027
RPL29P16	4.402569665	1.659653067	0
WT1-AS	3.301927249	0.829826533	1.111172731
RIMBP3C	1.100642416	0	0
PRR36	2100.02573	4635.411015	2667.925728
NF1P3	2.201284833	0.829826533	1.111172731
LINC0154	5.503212081	22.4053164	2.222345463
OR51B4	1.100642416	3.319306133	23.33462736
PTTG1IP	650.479668	1104.499116	640.0354933
DDX41	669.1905891	678.7981043	818.9343031
ABHD16B	12.10706658	1.659653067	6.667036389
OR52E8	3.301927249	68.04577574	1.111172731
CCDC60	29.71734524	0.829826533	20.00110917
PLGLB1	5.503212081	4.149132667	1.111172731
DAZAP2	1330.676681	983.344442	1535.640715
CCBE1	15.40899383	4.149132667	12.22290005

SELENOF	757.2419824	527.7696752	741.1522119
RPSAP19	4.402569665	8.298265334	4.444690926
FAM9A	7.704496914	2.4894796	0
MAGEA2E	0	1.659653067	1.111172731
TMEM121	20.91220591	14.10705107	7.77820912
ENSG0000	1.100642416	1.659653067	0
ZNF623	5.503212081	19.9158368	16.66759097
OR2T34	0	0	7.77820912
OR52L1	1.100642416	2.4894796	0
EPHA10	112.2655265	77.1738676	401.133356
SPDYE4	0	4.9789592	4.444690926
CCDC125	17.61027866	4.149132667	6.667036389
REC114	8.80513933	2.4894796	1.111172731
BCOR	3013.558936	2984.056214	3566.864468
JRKL	423.7473303	453.0852872	318.9065739
CABCOCC	209.1220591	7.4684388	63.33684569
GBP6	2.201284833	1.659653067	4.444690926
KIAA2026	6060.137144	4074.448279	3465.747749
OVCH2	23.11349074	4.9789592	10.00055458
SYNDIG1I	4.402569665	0.829826533	23.33462736
FHL3	94.6552478	42.3211532	97.78320037
OR56A4	2.201284833	4.9789592	14.44524551
PMCH	1.100642416	0.829826533	5.555863657
TMEM89	0	2.4894796	0
TEKTIP1	24.21413316	8.298265334	125.5625187
CCDC159	338.9978642	43.98080627	281.1267011
RIPK4	531.6102871	273.842756	304.4613284
LRIT3	37.42184215	12.447398	148.897146
NPIPA1	16.50963624	25.72462253	12.22290005
SF3A3	752.8394127	1141.011483	332.2406467
ZBTB8OSI	0	0.829826533	0
TFDP3	0	1.659653067	0
TRIM61	0	3.319306133	11.11172731
OR7E38P	8.80513933	2.4894796	1.111172731
GRIN2A	59.43469048	20.74566333	35.55752741
PKD1P3	9.905781747	2.4894796	24.44580009
URAD	1.100642416	0	6.667036389
GTF2H2C	23.11349074	7.4684388	47.78042745
ASB7	167.2976473	142.7301637	116.6731368
SH2D7	1.100642416	0	4.444690926
TREX2	4.402569665	14.9368776	6.667036389
GPR132	53.9314784	22.4053164	58.89215477
MX2	231.1349074	61.40716347	28.89049102
EP400	4409.17352	4177.346769	5718.094876

MEX3B	167.2976473	257.2462253	117.7843095
PI4KAP2	62.73661773	44.8106328	86.67147305
TENT5C	455.6659603	234.0110824	491.1383473
COA5	212.4239863	244.7988273	156.6753551
UTP11	169.4989321	380.8903788	122.2290005
PSMG1	272.9593192	785.8457271	123.3401732
PRR14L	4545.653179	2897.754255	2536.807346
KLRC4	1.100642416	1.659653067	0
ACSM5	13.207709	21.57548987	36.66870014
C10orf120	2.201284833	0	10.00055458
IZUMO1R	0	2.4894796	8.889381852
SERHL2	226.7323378	2.4894796	45.55808199
PCBP3	7.704496914	396.6570829	56.6698093
PGPEP1L	2.201284833	0.829826533	0
SETD3	1606.937928	2361.686314	1465.636833
TNFAIP8L	58.33404806	9.9579184	10.00055458
ZNRF3	255.3490406	128.6231127	291.1272556
FBXL7	340.0985066	148.5389495	410.0227379
TANGO2	134.2783748	75.51421454	112.2284459
H3C13	12.10706658	97.0897044	1.111172731
SMG1P5	50.62955115	34.02288787	3.333518194
SFXN4	209.1220591	165.1354801	235.5686191
GKN2	2.201284833	3.319306133	3.333518194
FAM167B	3.301927249	13.27722453	2.222345463
MRPL54	68.23982981	117.0055412	225.5680645
ZNF438	677.9957284	364.2938481	271.1261465
HMCES	198.1156349	570.0908284	373.3540378
CCR3	2.201284833	1.659653067	8.889381852
PRR32	0	1.659653067	0
TP53TG3	1.100642416	0	0
RP1L1	2.201284833	1.659653067	4.444690926
KRTAP8-1	0	0	4.444690926
C15orf32	2.201284833	0.829826533	0
HOATZ	2.201284833	1.659653067	0
ZNF530	51.73019357	105.3879697	81.11560939
NDUFB1	181.6059987	575.8996142	164.4535643
MARCHF1	6.603854498	223.2233375	15.55641824
KLHL25	128.7751627	145.2196433	254.4585555
TAFA1	3.301927249	0	0
TRMT12	195.9143501	414.9132667	352.2417559
PSG9	5.503212081	5.808785734	42.22456379
CMKLR2	1.100642416	0	0
BMP8A	80.34689639	141.9003372	125.5625187
ALYREF	266.3554647	638.9664307	374.4652105

RFLNB	1.100642416	1.659653067	0
EFHC2	154.0899383	29.04392867	195.5664007
NOG	1.100642416	2.4894796	3.333518194
MRGPRX2	1.100642416	0	6.667036389
UPP1	48.42826632	27.3842756	12.22290005
SLC9B1P1	2.201284833	0.829826533	0
OPCML	4.402569665	1.659653067	4.444690926
TRIM52	791.3618973	367.6131543	240.01331
LHFPL6	429.2505424	384.2096849	748.930421
CMTM4	191.5117804	264.7146641	260.0144192
TMEM50A	968.5653263	1055.53935	1111.172731
FIGLA	2.201284833	0.829826533	7.77820912
ASCL2	4.402569665	16.59653067	5.555863657
TBK1	821.0792426	652.2436552	418.9121198
CBX6	795.764467	490.4274812	711.1505481
MACC1	466.6723845	82.98265334	23.33462736
ACSM2A	7.704496914	5.808785734	47.78042745
ACP7	1.100642416	10.78774493	12.22290005
KREMEN1	315.8843735	187.5407965	398.9110106
TRAIP	57.23340565	79.6633472	32.22400921
CHEK2	66.03854498	189.2004496	123.3401732
FOXL2	61.63597531	48.95976547	64.44801842
AIFM3	7.704496914	3.319306133	32.22400921
KCTD16	11.00642416	11.61757147	7.77820912
B3GALT5	14.30835141	42.3211532	12.22290005
ZNF703	923.4389873	312.0147765	670.0371571
SLC35F3	104.5610295	17.4263572	215.5675099
KCTD8	16.50963624	63.89664307	5.555863657
DOCK8-AS	14.30835141	8.298265334	54.44746384
TUBA8	4.402569665	1.659653067	1.111172731
NPIPA5	74.84368431	26.55444907	57.78098203
EMILIN3	51.73019357	70.53525534	83.33795486
OLFML1	112.2655265	31.53340827	25.55697282
FAM162B	41.82441182	3.319306133	36.66870014
RBM12B	2310.248432	3098.572276	1476.74856
CCR4	84.74946605	4.149132667	8.889381852
LIN9	169.4989321	585.8575326	62.22567296
BTBD9	706.6124313	530.2591548	1153.397295
NUDT14	248.7451861	414.0834401	301.1278102
ANKRD45	0	0	1.111172731
CFAP91	34.11991491	69.7054288	18.88993643
PNMA3	7.704496914	130.2827657	31.11283648
GPR39	7.704496914	61.40716347	48.89160018
FAM3B	681.2976557	4.149132667	13.33407278

ZNF730	25.31477557	364.2938481	87.78264578
KIRREL1	337.8972218	219.9040313	150.0083187
CNGA2	5.503212081	0	15.55641824
TOB2	1197.498949	220.7338579	570.0316112
SCN5A	39.62312699	121.9845004	64.44801842
ARSI	29.71734524	17.4263572	62.22567296
UTY	2589.811606	191.6899292	466.6925472
SRARP	44.02569665	0.829826533	17.7787637
NPIPA9	17.61027866	43.15097974	72.22622754
TTC32	57.23340565	189.2004496	81.11560939
LRRC55	5.503212081	0.829826533	12.22290005
RPL21P13	0	0.829826533	0
DNAH2	71.54175706	942.6829419	183.3435007
SH2D1A	24.21413316	0.829826533	0
HTR7P1	27.51606041	48.12993894	31.11283648
TRBV21O	0	0	2.222345463
PRKX	155.1905807	234.0110824	145.5636278
KMT5A	299.3747372	250.6076131	140.0077642
KCNH8	37.42184215	872.9775131	95.5608549
SMTN	1340.582463	336.9095725	277.7931829
PP2D1	6.603854498	4.149132667	6.667036389
COA3	141.9828717	181.7320108	330.0183012
NPB	0	4.149132667	1.111172731
ST6GALN	33.01927249	40.66150013	36.66870014
PTP4A2	870.6081513	1370.873433	625.5902478
ACTG1	234.4368347	441.4677158	673.3706753
TMPRSS2	8061.105057	100.4090105	5446.96873
DENND5A	1129.259119	953.4706868	1728.98477
DSCR4	0	0.829826533	1.111172731
CTAG1B	4.402569665	0	0
DIABLO	60.5353329	92.1107452	15.55641824
OR7E87P	0	6.638612267	5.555863657
VPS33B	15.40899383	7.4684388	12.22290005
TBX1	410.5396213	147.7091229	134.4519005
ADAP2	8.80513933	1.659653067	17.7787637
SREBF2-A	1.100642416	2.4894796	1.111172731
UQCR10	287.2676707	204.1373272	232.2351009
FAM120C	307.0792341	126.1336331	303.3501557
BRD7P2	18.71092108	38.17202053	26.66814555
TRIML1	1.100642416	0	14.44524551
EIF3C	321.3875856	60.57733694	250.0138646
RPL11P4	1.100642416	0	0
CLDN5	15.40899383	34.8527144	8.889381852
NIPSNAP1	226.7323378	171.7740924	264.4591101

OR4F6	1.100642416	0.829826533	0
CNTN2	4.402569665	5.808785734	26.66814555
SPRR4	0	0	1.111172731
LRRC51	99.05781747	78.00369414	153.3418369
OR10J5	2.201284833	2.4894796	5.555863657
KCNQ3	24.21413316	55.59837774	112.2284459
ADRA2C	72.64239948	62.23699	188.8993643
NR2C2AP	38.52248457	136.921378	62.22567296
C1QTNF12	1.100642416	4.149132667	16.66759097
CRELD2	323.5888704	267.2041437	401.133356
OR1D2	2.201284833	3.319306133	2.222345463
SCFD2	428.1498999	238.1602151	341.1300286
UBE2F	41.82441182	58.08785734	32.22400921
KCNJ12	20.91220591	287.1199805	43.33573653
GPR173	19.81156349	109.5371024	8.889381852
PPP1R2	414.9421909	549.3451651	352.2417559
TSPYL2	1188.69381	480.4695628	516.6953201
GOLGA6L	3.301927249	0	4.444690926
PGP	79.24625397	253.9269192	114.4507913
C22orf46P	61.63597531	75.51421454	31.11283648
SNRNP35	275.1606041	272.1831029	187.7881916
DGAT2L6	3.301927249	0.829826533	3.333518194
IRAK1	1149.070683	996.6216666	1223.401177
CMSS1	191.5117804	536.0679406	93.33850944
OLIG1	0	13.27722453	0
PCDH9	551.4218506	5149.07364	210.0116462
ACOT1	17.61027866	32.3632348	90.00499125
OAF	78.14561156	21.57548987	213.3451644
ALDH1A3	2758.209895	63.06681654	195.5664007
H2AC20	1015.89295	2977.417602	1760.097607
KCNK12	7.704496914	84.6423064	11.11172731
H2AC21	271.8586768	1435.599903	374.4652105
POU6F1	119.9700234	34.02288787	94.44968217
LINC00315	1.100642416	0	0
TM2D3	184.9079259	215.7548987	202.2334371
TSSC4	55.03212081	87.96161254	138.8965914
TACSTD2	2857.267713	54.7685512	7344.851755
CLECL1P	15.40899383	8.298265334	6.667036389
SIX6	8.80513933	7.4684388	0
PRKD1	603.1520441	408.2746544	4069.114543
CCSER1	682.3982981	595.815451	1408.967023
ZDHHC23	111.164884	449.7659811	130.0072096
MROH7	16.50963624	14.10705107	8.889381852
OR51J1	0	0	2.222345463

S100A7A	2.201284833	4.149132667	1.111172731
SRPK3	17.61027866	1.659653067	3.333518194
GDF3	1.100642416	2.4894796	0
IQCF2	0	0	5.555863657
SLIT3	304.8779493	238.1602151	375.5763832
EFNA5	214.6252712	277.1620621	330.0183012
MRGPRE	8.80513933	4.149132667	8.889381852
H1-5	46.22698148	58.08785734	7.77820912
SPATA32	15.40899383	14.10705107	35.55752741
PKP3	93.55460539	132.7722453	204.4557826
MAP7D2	16.50963624	64.7264696	22.22345463
CSF1	294.9721676	316.9937357	577.8098203
COLEC10	7.704496914	9.9579184	17.7787637
ACTRT3	11.00642416	44.8106328	23.33462736
PLA2G6	289.4689555	160.9863475	752.2639392
MAML2	2456.633873	269.6936233	530.0293929
UMODL1-	0	0.829826533	0
PABPC1L2	1.100642416	0	0
A3GALT2	6.603854498	15.76670413	22.22345463
SS18L1	260.8522527	308.6954704	292.2384284
KCND2	1.100642416	194.1794088	66.67036389
RPL23AP3	0	0.829826533	0
TOP1MT	409.4389789	924.4267582	404.4668742
COPB2	6109.666053	4245.392545	4255.791561
LRRC19	11.00642416	4.9789592	0
THAP7	187.1092108	147.7091229	150.0083187
ENSG0000	12.10706658	38.17202053	32.22400921
KNTC1	707.7130737	5400.511079	402.2445288
CCR10	13.207709	14.9368776	27.77931829
NCMAP	46.22698148	8.298265334	57.78098203
BPIFC	4.402569665	1.659653067	2.222345463
WDR27	425.9486151	463.0432056	390.0216287
TXNRD2	307.0792341	112.026582	358.9087923
C1QTNF8	3.301927249	6.638612267	14.44524551
OR56A3	3.301927249	28.21410213	20.00110917
FOXO4	161.7944352	115.3458881	402.2445288
POU3F2	1.100642416	4.149132667	0
FOXD4L1	7.704496914	7.4684388	7.77820912
TMEM255	49.52890873	215.7548987	54.44746384
PROS1	326.8907976	180.0723577	511.1394565
GAST	0	0.829826533	0
HDDC3	46.22698148	50.61941854	12.22290005
BEX5	0	7.4684388	1.111172731
ZFP1	119.9700234	148.5389495	67.78153662

PTGER4P2	0	0	1.111172731
CEND1	3.301927249	2.4894796	0
C6orf58	2.201284833	1.659653067	11.11172731
DHRS7C	2.201284833	0.829826533	6.667036389
SOCS3	114.4668113	117.8353677	327.7959558
SLITRK6	879.4132906	893.7231764	78.89326393
PIWIL3	23.11349074	9.9579184	2.222345463
LPAR5	29.71734524	11.61757147	53.33629111
XPOT	2246.411172	1784.956873	811.1560939
PDE4B	578.937911	57.2580308	413.3562561
TAFA3	1.100642416	0	4.444690926
SNN	28.61670282	69.7054288	26.66814555
FAM167A	0	0.829826533	0
KCNH7	14.30835141	1499.496546	36.66870014
RPL7P26	1.100642416	0	0
NELL2	477.6788087	650.5840022	1172.287232
KRBA2	75.94432672	108.7072759	20.00110917
MED12	1822.663841	1795.744618	3190.176912
ZNF93	161.7944352	604.9435428	72.22622754
SEPTIN9	2127.541791	3141.723255	1852.324943
ODF4	0	1.659653067	12.22290005
FOXD4L4	6.603854498	1.659653067	5.555863657
CDCA2	23.11349074	442.2975423	5.555863657
RALYL	6.603854498	2831.368132	118.8954823
AMER1	474.3768814	459.7238995	410.0227379
ZBTB40	879.4132906	590.8364918	635.5908024
H2BC21	2061.503246	5045.345323	1023.390086
CLDN6	0	1.659653067	0
OR51M1	0	2.4894796	2.222345463
SEPTIN5	5.503212081	6.638612267	3.333518194
EIF4ENIF1	1150.171325	523.6205426	637.8131478
LRRC26	143.0835141	6.638612267	5.555863657
SERINC4	2.201284833	2.4894796	0
RNLS	47.3276239	2.4894796	14.44524551
KRTAP6-1	1.100642416	0.829826533	1.111172731
APOBR	58.33404806	37.342194	14.44524551
FAM110C	19.81156349	13.27722453	127.7848641
DDX53	9.905781747	0.829826533	7.77820912
ATL3	1186.492525	1372.533086	1330.07376
NDUFA12	544.8179961	909.4898806	555.5863657
SMIM10	15.40899383	4.149132667	2.222345463
UBE2G2	570.1327716	711.1613391	296.6831193
SATL1	3.301927249	42.3211532	8.889381852
OR4C10P	0	0	1.111172731

OSBP2	111.164884	92.1107452	130.0072096
UNC93B5	0	0	1.111172731
B3GALT5-	2.201284833	1.659653067	1.111172731
TRARG1	0	0.829826533	0
PRR23B	2.201284833	3.319306133	10.00055458
ZBTB7C	93.55460539	589.1768387	121.1178277
APOO	116.6680961	418.2325728	232.2351009
PRR16	95.75589022	4.149132667	13.33407278
TMED9	1668.573903	3012.270316	1424.523442
CYCSP45	0	0.829826533	1.111172731
DRD1	25.31477557	205.7969803	13.33407278
TMEM186	60.5353329	100.4090105	162.2312188
SDR42E1	83.64882364	148.5389495	128.8960368
RBM33	2393.897255	1345.978637	1000.055458
ARMCX2	346.7023611	271.3532764	131.1183823
BTBD6	355.5075005	256.4163988	380.0210742
SRY	0	1.659653067	3.333518194
H1-10	246.5439013	998.2813196	603.3667932
RBM43	193.7130653	68.04577574	87.78264578
SUMO3	526.107075	597.475104	321.1289194
IMMP2L	238.8394043	93.77039827	134.4519005
TCEAL2	3.301927249	2.4894796	0
CLCNKB	9.905781747	151.8582556	25.55697282
DMRTC1E	1.100642416	0.829826533	0
JAG2	282.865101	958.449646	528.9182202
FMNL1	310.3811614	102.8984901	228.9015827
NUTM2A	11.00642416	16.59653067	37.77987287
PTRHD1	191.5117804	322.8025215	266.6814555
LCN12	8.80513933	31.53340827	14.44524551
OR6A2	6.603854498	9.9579184	1.111172731
WT1	9.905781747	7.4684388	8.889381852
ZFP90	309.280519	443.9571954	357.7976195
AQP12A	0	1.659653067	2.222345463
FAM227A	330.1927249	132.7722453	136.674246
OR6C70	0	3.319306133	0
MUC6	0	11.61757147	0
USP18	129.8758051	190.0302761	65.55919115
CHRM5	2.201284833	2.4894796	2.222345463
SORCS2	72.64239948	346.8674909	73.33740027
TMEM121	22.01284833	24.06496947	3.333518194
TMEM106	135.3790172	39.00184707	135.5630732
SIVA1	104.5610295	329.4411337	277.7931829
BRI3BP	70.44111464	569.2610019	115.5619641
IFNE	2.201284833	0.829826533	1.111172731

SLC22A10	13.207709	8.298265334	261.1255919
DGAT1	1.100642416	0.829826533	0
RFX6	19.81156349	2.4894796	141.1189369
ROBO2	338.9978642	11.61757147	22.22345463
AP3M1	1525.490389	1872.918486	904.4946034
F8	1714.800885	570.0908284	944.4968217
NT5C1B	0	1.659653067	3.333518194
CA13	38.52248457	116.1757147	326.684783
UBOX5	242.1413316	204.9671537	238.9021373
MAFF	28.61670282	53.10889814	42.22456379
BRF1	346.7023611	346.0376644	551.1416748
LRRC14B	4.402569665	2.4894796	6.667036389
SLC2A3P2	24.21413316	4.9789592	52.22511838
SEMA4B	783.6574004	356.8254093	1276.737468
ZNF733P	0	0	1.111172731
MROH2A	11.00642416	11.61757147	26.66814555
SPDYE16	0	0.829826533	0
CIB1	387.4261305	124.47398	498.9165564
ANKS1B	509.5974387	639.7962572	972.27614
NELFA	234.4368347	191.6899292	672.2595025
SLC24A3	201.4175622	560.9627366	341.1300286
SGCZ	9.905781747	1.659653067	2.222345463
EFCAB10	1.100642416	8.298265334	4.444690926
C5orf47	2.201284833	1.659653067	1.111172731
UFD1-AS1	4.402569665	6.638612267	0
KRT76	7.704496914	2.4894796	2.222345463
FLRT2	451.2633907	285.4603275	887.8270124
OR7E31P	1.100642416	0	6.667036389
INTS5	252.0471133	277.1620621	528.9182202
RPS27L	250.9464709	373.42194	105.5614095
MANEAL	201.4175622	789.9948598	524.4735292
ADSS1	127.6745203	141.0705107	172.2317734
ANO9	84.74946605	152.6880821	11.11172731
FAF1	1042.308368	1477.091229	810.0449212
MYADML	0	0.829826533	2.222345463
FAM43A	78.14561156	68.04577574	320.0177467
NSMCE3	4.402569665	1.659653067	0
HSF1	0	0	2.222345463
C6orf120	215.7259136	217.4145517	464.4702017
PURA	766.0471217	252.2672661	352.2417559
H2BC13	49.52890873	1687.037342	42.22456379
INPP5J	192.6124229	146.8792964	180.0099825
NPY2R	6.603854498	4.9789592	0
MIXL1	5.503212081	2.4894796	3.333518194

MFSD6L	5.503212081	1.659653067	0
LRRC37B	419.3447606	397.4869095	254.4585555
NOMO2	376.4197064	918.6179724	484.4713109
LINC0048	0	10.78774493	0
ZNF479	7.704496914	2.4894796	8.889381852
SIGIRR	143.0835141	128.6231127	281.1267011
NRBP2	348.903646	256.4163988	371.1316923
PRSS57	1.100642416	0.829826533	11.11172731
IFITM2	817.7773153	287.1199805	700.0388208
TNFAIP2	516.2012932	217.4145517	381.1322469
ZNF445	1090.736635	1353.447076	801.1555394
PGBD2	309.280519	258.9058784	163.3423915
TCEAL9	123.2719506	168.4547863	195.5664007
MC2R	2.201284833	0	0
RAB11B	770.4496914	980.0251359	1523.417815
PRMT3	195.9143501	489.5976547	254.4585555
GP1BA	4.402569665	10.78774493	36.66870014
PRPF39	867.306224	551.8346447	447.8026108
MAGEA11	1.100642416	0	0
PPIL6	145.284799	105.3879697	63.33684569
ZNF74	154.0899383	90.45109214	223.345719
KIAA0825	367.614567	154.3477352	410.0227379
UBALD2	547.0192809	638.1366042	391.1328015
TEX33	1.100642416	2.4894796	16.66759097
CDNF	30.81798766	20.74566333	57.78098203
NOTUM	7.704496914	27.3842756	30.00166375
KLHL33	1.100642416	0	1.111172731
RBM11	19.81156349	71.36508187	47.78042745
GALNT17	85.85010847	4.9789592	51.11394565
CD24P4	11.00642416	102.0686636	27.77931829
ZBTB37	436.9550393	653.9033083	654.4807388
NUPR2	6.603854498	3.319306133	0
CCDC137	61.63597531	105.3879697	41.11339106
SFTPA2	85.85010847	3.319306133	6.667036389
RGPD2	78.14561156	58.08785734	22.22345463
ARL15	100.1584599	156.0073883	97.78320037
C12orf56	25.31477557	73.85456147	7.77820912
SCN10A	19.81156349	7.4684388	22.22345463
CDK10	198.1156349	231.5216028	318.9065739
TMEM105	1.100642416	0	11.11172731
SOCS1	14.30835141	39.00184707	11.11172731
TCN2	74.84368431	93.77039827	550.0305021
GAS2L1	183.8072835	93.77039827	234.4574463
ATP6V0A	806.7708911	692.9051554	615.5896932

PRKN	50.62955115	4.149132667	38.8910456
TEDC1	30.81798766	58.91768387	24.44580009
HS6ST3	7.704496914	0.829826533	38.8910456
HGS	420.445403	497.0660935	945.6079945
TNFAIP8L	6.603854498	73.85456147	37.77987287
OR2V1	0	0.829826533	16.66759097
RAD51D	33.01927249	143.5599903	22.22345463
OR7A17	6.603854498	3.319306133	7.77820912
MAPK11	36.32119974	67.2159492	18.88993643
SP140L	298.2740948	46.47028587	65.55919115
MRPL30	27.51606041	50.61941854	13.33407278
TARS3	602.0514017	327.7814807	330.0183012
SMYD3	417.1434758	1075.455187	988.943731
METTL7A	35.22055732	52.2790716	27.77931829
LINC0015	0	5.808785734	0
IFNLR1	69.34047223	93.77039827	252.23621
SH3BGR	3.301927249	0.829826533	3.333518194
FAM174B	550.3212081	175.9232251	206.678128
FAM47A	2.201284833	4.149132667	17.7787637
ZSWIM9	92.45396297	167.6249597	152.2306642
TMEM179	520.6038629	409.9343075	1008.94484
GPRIN3	425.9486151	203.3075007	261.1255919
KRT6B	4.402569665	0	10.00055458
PARPBP	45.12633907	525.2801956	142.2301096
STAC3	45.12633907	18.25618373	6.667036389
ROR1	396.2312699	150.1986025	83.33795486
SEPTIN7P	2.201284833	4.149132667	1.111172731
MUC1	362.111355	2015.64865	167.7870824
FAAP100	184.9079259	262.2251845	927.8292308
IRF7	17.61027866	4.149132667	62.22567296
L3MBTL1	57.23340565	82.98265334	71.11505481
BRCC3	376.4197064	545.1960324	344.4635467
SV2B	132.07709	56.42820427	1.111172731
FAM131C	1.100642416	14.9368776	8.889381852
SPATA45	15.40899383	1.659653067	0
PDE6G	4.402569665	2.4894796	14.44524551
PRKG1	365.4132822	54.7685512	31.11283648
NR2F2	2014.175622	331.1007868	1116.728595
DLK1	5.503212081	100.4090105	22.22345463
LSAMP	312.5824462	194.1794088	1160.064332
AHNAK2	1495.773044	1550.945791	3384.63214
OLFML2A	88.0513933	180.0723577	411.1339106
SP1	2298.141365	1398.257709	1406.744678
SPATA8	0	0	7.77820912

MRPL40	223.4304105	160.9863475	116.6731368
DBX2	14.30835141	2.4894796	8.889381852
INKA1	16.50963624	9.9579184	6.667036389
PDIA2	4.402569665	3.319306133	25.55697282
PCGF3	494.1884449	292.9287663	503.3612473
LMLN	209.1220591	206.6268068	275.5708374
P4HB	5853.21637	6562.268226	6379.242651
PSMD13	407.237694	425.7010116	523.3623565
PBX1	1825.965769	2672.871264	1341.185487
NDUFA4L	22.01284833	61.40716347	175.5652916
SHC4	11.00642416	30.70358173	58.89215477
KRT79	0	2.4894796	11.11172731
ENSG0000	121.0706658	69.7054288	41.11339106
ZFP36L1	4871.443335	1020.686636	3052.391493
UBE2L3	532.7109295	356.8254093	154.4530097
NTF3	16.50963624	102.8984901	11.11172731
BRWD1	4435.588938	6241.125357	3677.981741
SMIM23	3.301927249	0.829826533	16.66759097
PMEL	12.10706658	15.76670413	91.11616398
SYN3	9.905781747	369.2728073	107.7837549
POU3F1	1.100642416	4.9789592	30.00166375
SNAI3	9.905781747	14.10705107	22.22345463
ZBTB3	141.9828717	130.2827657	233.3462736
LYG2	1.100642416	1.659653067	0
MORN5	3.301927249	30.70358173	34.44635467
TEX56P	13.207709	1.659653067	10.00055458
MYBL1	152.9892959	856.3809824	60.0033275
SMG1P4	5.503212081	22.4053164	25.55697282
MOSMO	0	1.659653067	1.111172731
DRG1	402.8351244	400.8062156	236.6797918
ANKFY1	1376.903663	1310.296096	2183.454417
YTHDF3	2467.640297	2650.465948	1280.070987
ZNF696	79.24625397	179.2425312	143.3412824
ADARB2	38.52248457	24.06496947	13.33407278
NRG3	9.905781747	24.894796	1465.636833
SRL	9.905781747	43.15097974	36.66870014
C11orf87	2.201284833	1.659653067	0
IFIT1	128.7751627	63.06681654	38.8910456
CXorf38	64.93790256	97.91953094	85.56030032
CLDN24	1.100642416	0.829826533	8.889381852
KCNQ5	47.3276239	261.395358	24.44580009
ADAMTSI	26.41541799	29.8737552	35.55752741
KCNIP4	151.8886534	19.08601027	15.55641824
SPATA31A	1.100642416	1.659653067	1.111172731

MORF4L1	1619.044994	1350.12777	844.4912759
NLRP9	9.905781747	4.9789592	15.55641824
WDR53	132.07709	477.1502567	224.4568918
DMWD	391.8287002	631.4979919	1160.064332
PIGP	227.8329802	427.3606647	103.339064
IKZF1	323.5888704	46.47028587	33.33518194
PCYT2	143.0835141	187.5407965	238.9021373
NAT8L	22.01284833	19.08601027	36.66870014
OR6C76	3.301927249	0.829826533	0
NPAP1	5.503212081	4.9789592	3.333518194
BCAP31	355.5075005	534.4082875	870.0482487
ARL17A	12.10706658	32.3632348	3.333518194
RPL12P4	13.207709	4.9789592	1.111172731
HDHD5-A	1.100642416	1.659653067	0
GNB1L	31.91863007	34.02288787	36.66870014
ENSG0000	26.41541799	39.8316736	45.55808199
DNAH14	1477.062123	1914.409812	1625.645706
LINC0140	0	0.829826533	0
CCDC190	3.301927249	1.659653067	12.22290005
TMEM210	0	0.829826533	0
NPIPB4	243.241974	66.38612267	125.5625187
ZNF829	38.52248457	93.77039827	28.89049102
TMPRSS1	11.00642416	0.829826533	11.11172731
THNSL1	99.05781747	238.1602151	66.67036389
TRIM69	4.402569665	0.829826533	0
ATP6V0C	6.603854498	2.4894796	2.222345463
IFITM1	245.4432588	136.921378	700.0388208
PRSS38	0	0	11.11172731
LAMP1	2018.578191	3687.749114	3010.166929
FFAR3	0	0.829826533	3.333518194
POMK	341.1991491	1243.080147	748.930421
LINC0083	0	0.829826533	0
C16orf54	19.81156349	4.149132667	3.333518194
KLHDC8B	46.22698148	34.02288787	73.33740027
KLHL34	4.402569665	2.4894796	0
SETD4	285.0663858	291.2691132	158.8977006
PTCH1	1340.582463	1071.306055	1620.089842
RTN4RL1	113.3661689	49.789592	430.0238471
OR4C46	1.100642416	0	0
CALHM1	2.201284833	0.829826533	0
NKAIN3	5.503212081	5.808785734	3.333518194
RNPC3	1486.967904	648.0945226	1116.728595
ZNF267	408.3383364	603.2838898	182.232328
IRS2	416.0428334	279.6515417	1388.965914

SPACDR	4.402569665	3.319306133	0
FAM186A	23.11349074	9.9579184	60.0033275
BICD2	417.1434758	426.5308382	744.4857301
LCE3E	0	0	15.55641824
CCIN	4.402569665	2.4894796	4.444690926
TMLHE	156.2912231	30.70358173	45.55808199
DEFB128	2.201284833	1.659653067	0
SLITRK2	11.00642416	2.4894796	13.33407278
SDHAP3	5.503212081	5.808785734	3.333518194
PLK5	7.704496914	6.638612267	16.66759097
RASA3	66.03854498	63.06681654	22.22345463
LRCH3	1740.11566	1212.376565	1322.29555
LEMD1	6.603854498	40.66150013	7.77820912
NDUFA13	34.11991491	24.894796	66.67036389
ZNF566	372.0171367	352.6762767	174.4541188
ZNF225-A	60.5353329	141.0705107	233.3462736
ZNF529	242.1413316	336.9095725	441.1355744
ZNF284	9.905781747	14.10705107	0
HTR3E	4.402569665	4.9789592	23.33462736
DLEU7	7.704496914	2.4894796	0
KRT73	19.81156349	0.829826533	7.77820912
TAL2	1.100642416	3.319306133	1.111172731
MATN1-A	7.704496914	13.27722453	2.222345463
AIDA	197.0149925	219.9040313	372.242865
CDIN1	125.4732355	230.6917763	94.44968217
CD300LF	24.21413316	14.9368776	18.88993643
ZPBP2	12.10706658	2.4894796	7.77820912
ENSG0000	12.10706658	8.298265334	30.00166375
KRT5	522.8051477	2.4894796	20.00110917
KRT18P14	0	0.829826533	0
GSAP	293.8715252	87.96161254	190.0105371
HTR3D	3.301927249	2.4894796	20.00110917
OR4F5	0	0	11.11172731
AGBL4	119.9700234	150.1986025	127.7848641
ARGFX	1.100642416	4.149132667	10.00055458
CYP2R1	113.3661689	160.9863475	171.1206006
LRRC70	13.207709	8.298265334	6.667036389
ANKRD46	117.7687385	306.2059908	334.4629922
PIP5K1C	752.8394127	429.0203178	1125.617977
OR5D14	9.905781747	4.9789592	16.66759097
CYP4F2	22.01284833	4.9789592	13.33407278
TEX38	4.402569665	1.659653067	24.44580009
OR5D18	1.100642416	2.4894796	2.222345463
ZBTB6	358.8094277	559.3030835	311.1283648

C2orf76	113.3661689	112.8564085	77.7820912
POLR3C	460.06853	603.2838898	387.7992833
PRR30	1.100642416	0	27.77931829
DEFB131A	0	0	3.333518194
UBL4B	0	3.319306133	32.22400921
WWOX	237.7387619	368.4429808	214.4563372
CYP4Z1	11.00642416	3.319306133	31.11283648
BCL9L	2760.41118	401.6360421	1258.958705
POLR1D	334.5952946	666.3507063	257.7920737
KIF18B	23.11349074	690.4156758	48.89160018
ZNRF1	80.34689639	310.3551235	135.5630732
FFAR4	6.603854498	48.95976547	18.88993643
BPIFB3	5.503212081	4.9789592	40.00221833
BPIFB4	4.402569665	3.319306133	16.66759097
SAPCD2	11.00642416	181.7320108	17.7787637
EDARADD	389.6274154	85.47213294	134.4519005
SLC51B	0	1.659653067	2.222345463
CYP4F12	71.54175706	19.9158368	90.00499125
MTARC1	173.9015018	45.64045934	32.22400921
LCE5A	0	0.829826533	5.555863657
SOWAHB	149.6873686	62.23699	515.5841474
BLOC1S4	19.81156349	27.3842756	135.5630732
LCE1E	0	0	12.22290005
ZNF749	235.5374771	483.788869	308.9060193
KLHL32	86.95075089	228.2022967	63.33684569
FAM86MP	0	0.829826533	0
LINC02610	0	1.659653067	0
ENSG0000	0	2.4894796	0
MRTFB	2565.597472	2556.695549	2421.245382
BTLA	26.41541799	9.128091867	3.333518194
ZNF17	252.0471133	266.3743172	210.0116462
KDM4D	13.207709	51.44924507	26.66814555
GPAT2	9.905781747	8.298265334	21.1122819
TOR3A	215.7259136	354.3359297	322.2400921
GABRA5	2.201284833	8.298265334	37.77987287
PPP1CC	2191.379051	4018.849901	1787.876925
ZNF555	221.2291257	166.7951332	162.2312188
MST1P2	31.91863007	24.06496947	122.2290005
OR10T2	2.201284833	0.829826533	0
NAP1L3	70.44111464	63.89664307	266.6814555
CA5BP1	1.100642416	2.4894796	0
PRELID2	83.64882364	149.368776	7.77820912
BACE1	213.5246288	73.85456147	126.6736914
RGS9BP	17.61027866	10.78774493	13.33407278

ENSG0000	0	1.659653067	0
TMEM212	3.301927249	4.149132667	0
SLC36A3	1.100642416	2.4894796	11.11172731
SLC36A2	1.100642416	1.659653067	0
THBS2	2939.815894	536.0679406	433.3573653
RXRA	654.8822377	521.9608895	1263.403396
ANKRD37	38.52248457	94.6002248	44.44690926
NUDT17	23.11349074	14.9368776	66.67036389
MINAR2	3.301927249	0.829826533	1.111172731
SERTAD4	0	0.829826533	0
ZNF75D	278.4625313	198.3285415	92.22733671
CYP4X1	75.94432672	31.53340827	377.7987287
KRT26	4.402569665	4.149132667	31.11283648
KRT10	193.7130653	314.5042561	243.3468282
GOLGA8R	1.100642416	0.829826533	1.111172731
CD300E	2.201284833	8.298265334	14.44524551
CCDC30	199.2162773	68.04577574	90.00499125
NKRF	14.30835141	11.61757147	4.444690926
GLDN	15.40899383	41.49132667	88.89381852
KPNA4	1958.042859	1803.213057	1074.504031
TRDN	25.31477557	4.9789592	2.222345463
OR6P1	0	3.319306133	13.33407278
KRT3	2.201284833	2.4894796	2.222345463
ZNF501	2.201284833	1.659653067	0
ZNF197	8.80513933	9.9579184	6.667036389
SPATA12	0	1.659653067	0
TMPRSS11	2.201284833	0.829826533	0
FAM228A	1.100642416	2.4894796	20.00110917
DEFB132	1.100642416	0.829826533	1.111172731
NAP1L2	687.9015102	239.8198681	330.0183012
AQP7P1	26.41541799	11.61757147	44.44690926
RPS23	1151.271967	1034.793687	900.0499125
GNG2	68.23982981	64.7264696	17.7787637
BTN3A2	206.9207743	63.06681654	181.1211552
AKAP14	2.201284833	4.149132667	5.555863657
PCLO	4989.212073	9908.128808	2195.677317
KLK12	9.905781747	528.5995018	36.66870014
RGS7BP	71.54175706	14.9368776	7.77820912
INSIG1	119.9700234	160.1565209	424.4679834
MYT1L	41.82441182	17.4263572	50.00277291
IRX2-DT	11.00642416	2.4894796	0
ZNF396	49.52890873	51.44924507	46.66925472
TMEM222	184.9079259	195.0092353	363.3534832
OR9Q1	0	0	2.222345463

CLCNKA	13.207709	57.2580308	51.11394565
OR9Q2	0	0	3.333518194
ARHGAP3	416.0428334	88.79143907	260.0144192
SEPTIN10	839.7901636	842.2739314	713.3728936
FAM86B1	6.603854498	2.4894796	1.111172731
CYP4F8	351.1049308	3.319306133	26.66814555
CYP4F3	7.704496914	100.4090105	60.0033275
SMYD4	449.0621058	554.3241243	386.6881105
CROCCP5	0	0.829826533	1.111172731
FOXD2	100.1584599	13.27722453	195.5664007
GPATCH8	2973.935809	3508.506583	3274.62604
CEACAM1	67.13918739	107.8774493	43.33573653
NF2	943.2505508	504.5345323	668.9259843
SMIM29	75.94432672	50.61941854	118.8954823
SPATC1	13.207709	2.4894796	65.55919115
UBE2H	661.4860922	387.5289911	266.6814555
HPDL	7.704496914	0.829826533	16.66759097
KTN1-AS1	6.603854498	7.4684388	2.222345463
KATNA1	313.6830886	878.7862988	277.7931829
FSD2	2.201284833	1.659653067	22.22345463
ARAP1	955.3576173	999.1111462	2412.356
KIF24	97.95717505	1021.516463	100.0055458
PDE2A	78.14561156	82.1528268	130.0072096
SPDYE17	0	1.659653067	1.111172731
CARMIL3	1.100642416	34.02288787	3.333518194
PRR5	97.95717505	40.66150013	83.33795486
ZFP91	133.1777324	410.764134	51.11394565
C17orf58	55.03212081	123.6441535	92.22733671
BCDIN3D	96.85653263	85.47213294	97.78320037
MAGEE2	5.503212081	19.08601027	26.66814555
EEF1GP1	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
CYP27C1	5.503212081	4.149132667	6.667036389
LYRM7	50.62955115	80.49317374	30.00166375
DTX2P1	60.5353329	2.4894796	13.33407278
CFAP73	12.10706658	4.9789592	8.889381852
CCDC73	9.905781747	8.298265334	8.889381852
BCR	724.2227099	642.2857368	985.6102128
OR10H1	2.201284833	2.4894796	4.444690926
MPPED1	6.603854498	11.61757147	5.555863657
FSCN2	29.71734524	33.19306133	65.55919115
FOXI2	3.301927249	0.829826533	0
SPIN4	89.15203572	344.3780113	136.674246
ZNF732	17.61027866	4.9789592	43.33573653

SPIN2B	71.54175706	35.68254093	92.22733671
SPATA31I	1.100642416	0	0
FOXE3	4.402569665	7.4684388	12.22290005
HYAL3	34.11991491	20.74566333	44.44690926
KCNK18	7.704496914	1.659653067	18.88993643
IFNA10	8.80513933	3.319306133	13.33407278
VSIG10L	18.71092108	22.4053164	47.78042745
CXCR3	40.7237694	5.808785734	5.555863657
ZNF397	425.9486151	470.5116444	168.8982552
ZSCAN30	178.3040714	133.6020719	182.232328
TPCN1	722.0214251	258.0760519	1425.634614
TNFRSF4	14.30835141	3.319306133	0
KRT16	2.201284833	0	4.444690926
HEXIM1	766.0471217	457.2344199	478.9154472
SELENOV	2.201284833	14.10705107	44.44690926
KRT14	30.81798766	2.4894796	63.33684569
TRABD2A	13.207709	16.59653067	11.11172731
PDZD7	26.41541799	11.61757147	52.22511838
POFUT2	253.1477557	249.7777865	427.8015016
QRFPR	6.603854498	2.4894796	20.00110917
MAPT	5.503212081	7.4684388	16.66759097
ERCC6L	51.73019357	611.5821551	10.00055458
OR13F1	3.301927249	0.829826533	1.111172731
OR5D3P	0	0.829826533	0
TMEM17	22.01284833	18.25618373	7.77820912
TNFRSF18	11.00642416	14.10705107	27.77931829
FGF3	3.301927249	0.829826533	0
C1QL4	1.100642416	6.638612267	8.889381852
RTN4RL2	82.54818122	54.7685512	43.33573653
ZDHHC17	947.6531204	1682.058383	1673.426134
SERPINA1	23.11349074	1.659653067	8.889381852
P2RY4	46.22698148	34.8527144	57.78098203
ZNF395	45.12633907	81.32300027	4.444690926
ZACN	1.100642416	15.76670413	12.22290005
KRTAP22-	1.100642416	0	0
KRTAP19-	4.402569665	1.659653067	18.88993643
KRTAP6-2	0	0.829826533	2.222345463
CHCHD2P	0	0	5.555863657
OR13C8	0	0.829826533	26.66814555
PPARA	431.4518272	343.5481848	172.2317734
TMEM232	66.03854498	29.04392867	77.7820912
LINC0155	1.100642416	3.319306133	2.222345463
KRTAP19-	1.100642416	0.829826533	0
KRTAP19-	3.301927249	0.829826533	0

KRTAP15-	2.201284833	0	4.444690926
KRTAP13-	0	0	3.333518194
CFAP144	24.21413316	16.59653067	27.77931829
EFCAB6	540.4154264	237.3303885	301.1278102
KRTAP19-	2.201284833	0	0
KRTAP23-	1.100642416	0.829826533	5.555863657
KANK3	20.91220591	27.3842756	37.77987287
EMID1	9.905781747	26.55444907	42.22456379
ACTL7A	0	1.659653067	0
RHD	6.603854498	1.659653067	16.66759097
LINC0287	2.201284833	0.829826533	3.333518194
ESPN	34.11991491	162.6460005	25.55697282
PTRH1	64.93790256	69.7054288	151.1194915
KRTAP21-	0	0	8.889381852
SAMD7	3.301927249	1.659653067	0
GPR141	51.73019357	5.808785734	13.33407278
TMPRSS6	9.905781747	233.1812559	37.77987287
CYP4A11	6.603854498	3.319306133	34.44635467
TMEM216	89.15203572	81.32300027	105.5614095
RPS19BP1	151.8886534	144.3898168	196.6775735
TMPRSS1	12.10706658	2.4894796	11.11172731
TMEM262	0	1.659653067	14.44524551
C3orf70	205.8201318	48.95976547	36.66870014
TEAD1	567.9314868	1419.003372	425.5791561
OR2AK2	11.00642416	4.149132667	13.33407278
PLCD1	102.3597447	60.57733694	253.3473828
CCK	12.10706658	114.5160616	0
ENTPD5	1440.740923	270.5234499	4334.684825
MITF	466.6723845	117.8353677	54.44746384
HEATR4	12.10706658	14.10705107	20.00110917
NAP1L1	3299.725964	7165.552116	2465.692291
CMC1	104.5610295	175.0933985	140.0077642
SLIT1	69.34047223	370.9324604	533.3629111
LYPD6	7.704496914	53.10889814	22.22345463
AKR1C1	49.52890873	28.21410213	95.5608549
VSTM2B	3.301927249	43.15097974	0
FOXD3	8.80513933	44.8106328	38.8910456
RNF220	539.314784	507.8538384	667.8148116
ANGPTL5	9.905781747	9.9579184	12.22290005
SHTN1	2344.368347	3672.812237	2763.486583
H1-7	4.402569665	2.4894796	0
LCE2A	2.201284833	0.829826533	0
KRTAP12-	1.100642416	2.4894796	0
LCE2C	0	0	5.555863657

ENSG0000	11.00642416	46.47028587	0
ENSG0000	0	0.829826533	0
TSPYL4	278.4625313	249.7777865	428.9126743
MT1X	113.3661689	253.0970927	21.1122819
GCNT1	544.8179961	963.4286052	225.5680645
SESTD1	700.0085768	2665.402825	1185.621304
LCE3B	0	1.659653067	0
FNBP1	2235.404748	579.2189203	1098.949831
DYNC2H1	3119.220608	2687.808142	3364.631031
MAGED4I	3.301927249	0	0
BCAM	2649.246296	2099.461129	4203.566443
RSBN1L	562.4282747	373.42194	505.5835928
NPSR1	5.503212081	0.829826533	6.667036389
WDR86	47.3276239	27.3842756	218.9010281
EPOR	114.4668113	473.001124	876.7152851
FAM9C	1.100642416	4.9789592	0
CIDEC	0	4.9789592	0
DCC	13.207709	4.149132667	25.55697282
TAF9B	613.0578259	804.9317374	416.6897743
MAGI2	307.0792341	270.5234499	138.8965914
LUZP2	138.6809445	12.447398	88.89381852
LHFPL3	2.201284833	24.894796	11.11172731
CHP1	458.9678876	396.6570829	398.9110106
FPR3	261.9528951	126.9634596	64.44801842
H1-6	83.64882364	31.53340827	18.88993643
C11orf96	89.15203572	68.87560227	131.1183823
HSD3BP1	2.201284833	0	0
KCNJ11	24.21413316	87.131786	46.66925472
CDHR4	8.80513933	1.659653067	27.77931829
COL4A1	2361.978625	4040.425391	788.9326393
RPL7P48	0	0.829826533	0
PLEKHG7	49.52890873	1.659653067	52.22511838
GJA4	27.51606041	62.23699	37.77987287
PTMA	978.4711081	3510.166236	235.5686191
HSPA14	144.1841565	473.001124	168.8982552
ATP13A5	5.503212081	5.808785734	11.11172731
SIRT7	86.95075089	131.1125923	163.3423915
PRR27	1.100642416	0	0
IFT140	609.7558986	776.7176352	1201.177723
TPM3P7	2.201284833	0.829826533	0
POTEG	150.788011	5.808785734	55.55863657
AGMO	3.301927249	15.76670413	58.89215477
SBK2	2.201284833	4.9789592	2.222345463
CYP26C1	2.201284833	0.829826533	0

TLR5	499.691657	101.2388371	463.359029
USP7	4400.36838	6453.56095	3241.290858
FOXD4L3	0	0.829826533	0
NHLRC1	56.13276323	41.49132667	164.4535643
DPPA3	2.201284833	0	5.555863657
PLEKHN1	45.12633907	2.4894796	96.67202764
TERF1P2	0	0	3.333518194
ZNF385C	48.42826632	29.04392867	31.11283648
MAGEH1	374.2184215	546.025859	206.678128
TET3	750.6381279	629.0085123	848.9359668
ZNF286A	9.905781747	24.894796	8.889381852
ISG15	28.61670282	76.34404107	190.0105371
EXD3	148.5867262	153.5179087	754.4862846
OR5W2	4.402569665	1.659653067	4.444690926
MYMK	2.201284833	4.149132667	2.222345463
TCL6	11.00642416	19.9158368	1.111172731
C17orf97	15.40899383	4.9789592	14.44524551
ZKSCAN4	122.1713082	192.5197557	155.5641824
RGPD1	19.81156349	19.9158368	13.33407278
DHRS4L2	4.402569665	1.659653067	0
SAMD11	55.03212081	1.659653067	105.5614095
PERM1	38.52248457	17.4263572	81.11560939
TMSB4XP	8.80513933	29.8737552	0
TSPY13P	0	0.829826533	0
C5orf52	3.301927249	0.829826533	0
ERC2	52.83083598	95.43005134	257.7920737
B3GLCT	88.0513933	232.3514293	40.00221833
SPRY4	129.8758051	123.6441535	164.4535643
ERAS	0	3.319306133	8.889381852
KRT18P59	0	2.4894796	1.111172731
TRPV2	99.05781747	363.4640216	62.22567296
AMTN	22.01284833	3.319306133	6.667036389
EZHIP	3.301927249	2.4894796	3.333518194
C2orf88	3.301927249	4.9789592	6.667036389
TMEM203	130.9764475	173.4337455	148.897146
SLC18A3	6.603854498	3.319306133	6.667036389
KBTBD12	18.71092108	9.9579184	83.33795486
THSD4	1900.809453	136.0915515	2717.928501
DNAJB13	6.603854498	17.4263572	17.7787637
GABRD	2.201284833	165.9653067	58.89215477
AMY1C	1.100642416	2.4894796	6.667036389
TCEA1	948.7537628	1750.933985	632.2572842
NHEJ1	9.905781747	21.57548987	0
FANCA	91.35332055	1292.869739	40.00221833

SECISBP2	1483.665977	1272.124076	1102.28335
OR52B6	0	0.829826533	0
C9orf153	26.41541799	53.93872467	21.1122819
SSX7	1.100642416	0.829826533	0
ADH1A	9.905781747	1.659653067	32.22400921
HSPE1P11	1.100642416	3.319306133	0
OR2B7P	0	1.659653067	0
SEMA4D	952.0556901	992.4725339	937.8297853
KRTAP10-	0	0.829826533	0
LIN28B	1.100642416	36.51236747	3.333518194
DIPK1C	0	5.808785734	1.111172731
DNAH17	22.01284833	58.08785734	92.22733671
MCRS1	191.5117804	205.7969803	422.2456379
TMEM72	0	0.829826533	7.77820912
FANCM	356.6081429	660.5419206	446.691438
FAM205C	5.503212081	0.829826533	3.333518194
ZNF70	342.2997915	99.579184	203.3446099
CARD9	1.100642416	1.659653067	0
PEAR1	53.9314784	85.47213294	344.4635467
ZFP69B	86.95075089	238.9900416	93.33850944
TMEM202	2.201284833	0	0
SOWAHD	4.402569665	7.4684388	8.889381852
GOLGA6E	1.100642416	0.829826533	1.111172731
ZFP69	75.94432672	234.8409089	55.55863657
HELT	1.100642416	0.829826533	0
RTL4	1.100642416	1.659653067	4.444690926
TMEM220	395.1306275	136.921378	114.4507913
H1-2	735.2291341	3965.741003	701.1499935
EIF4EBP1	289.4689555	610.7523286	82.22678213
P2RX2	11.00642416	0	27.77931829
ASCL4	3.301927249	1.659653067	0
OR6C75	5.503212081	0	5.555863657
CCDC157	59.43469048	31.53340827	50.00277291
PABIR1	432.5524696	285.4603275	264.4591101
RNFT1P3	4.402569665	2.4894796	6.667036389
GFRAL	5.503212081	8.298265334	7.77820912
FYB2	228.9336226	39.8316736	94.44968217
OR5H7P	1.100642416	1.659653067	1.111172731
SHISA7	3.301927249	14.9368776	3.333518194
ENSG0000	0	0.829826533	1.111172731
LRRC74B	2.201284833	2.4894796	27.77931829
DMBT1	25.31477557	24.894796	133.3407278
CLEC17A	3.301927249	5.808785734	23.33462736
OR51I2	5.503212081	0	7.77820912

LCN10	1.100642416	0	1.111172731
LDLRAD2	8.80513933	0.829826533	20.00110917
C2orf66	1.100642416	2.4894796	22.22345463
OVCH1	19.81156349	14.9368776	63.33684569
HS6ST1P1	8.80513933	4.149132667	1.111172731
ZFTRAF1	31.91863007	73.85456147	25.55697282
COL14A1	2598.616745	269.6936233	150.0083187
DNER	25.31477557	233.1812559	53.33629111
CPSF4L	6.603854498	8.298265334	8.889381852
KLHL17	36.32119974	39.8316736	173.3429461
FAM230D	1.100642416	0	0
PLA2G2C	0	0.829826533	3.333518194
ZSCAN23	117.7687385	132.7722453	145.5636278
KCTD9P3	0	0.829826533	0
C17orf99	3.301927249	2.4894796	3.333518194
HNRNPA1	0	0.829826533	1.111172731
OR7D2	4.402569665	2.4894796	26.66814555
TPRG1	17.61027866	13.27722453	26.66814555
SNHG28	0	0.829826533	0
MORN2	315.8843735	479.6397363	150.0083187
MEIS3P2	2.201284833	4.149132667	3.333518194
S100A3	2.201284833	0	17.7787637
UBQLN2	719.8201403	702.0332472	934.4962671
RILPL1	297.1734524	174.263572	446.691438
ZNF490	156.2912231	177.5828781	242.2356555
CLCN1	14.30835141	8.298265334	21.1122819
NRN1L	1.100642416	0	0
NWD1	983.9743202	10.78774493	923.3845398
ARL4C	151.8886534	558.473257	183.3435007
RNF133	62.73661773	9.128091867	26.66814555
TMEM221	1.100642416	1.659653067	2.222345463
TREML4	0	0.829826533	4.444690926
RAB42	8.80513933	15.76670413	0
WNT7B	602.0514017	107.8774493	26.66814555
ZFTA	89.15203572	64.7264696	85.56030032
SCGB1C1	1.100642416	0	2.222345463
PLA2G4E	4.402569665	4.9789592	24.44580009
GPR89B	282.865101	113.6862351	180.0099825
MESP2	13.207709	0	4.444690926
ALOX15P2	0	3.319306133	6.667036389
EYS	45.12633907	54.7685512	56.6698093
C6orf132	1333.978609	195.8390619	682.2600571
DAZ1	1.100642416	0	0
OR2AG2	4.402569665	13.27722453	0

MAPK12	82.54818122	118.6651943	96.67202764
TMEM215	1.100642416	4.149132667	0
NUTM2G	1.100642416	0.829826533	1.111172731
COL4A5	1435.237711	627.3488592	2522.3621
KRTAP10-	0	7.4684388	1.111172731
AGRN	1237.122076	934.3846766	10517.2499
NHS	753.9400552	1194.120382	482.2489654
OTOG	9.905781747	8.298265334	87.78264578
FAM166A	15.40899383	12.447398	35.55752741
TMPPE	94.6552478	117.0055412	190.0105371
ZNF626	175.0021442	170.1144393	116.6731368
HEPACAM	285.0663858	133.6020719	171.1206006
SMTNL2	2.201284833	2.4894796	6.667036389
ZC3H6	780.3554732	231.5216028	505.5835928
LINC0026	11.00642416	13.27722453	6.667036389
LAMTOR4	82.54818122	93.77039827	143.3412824
PRKAR1B	61.63597531	67.2159492	112.2284459
NUTM2B	2.201284833	6.638612267	6.667036389
NCR3LG1	57.23340565	34.02288787	63.33684569
DCUN1D3	82.54818122	188.3706231	165.564737
POTEE	324.6895128	3.319306133	26.66814555
ZNF793	343.4004339	287.9498071	202.2334371
TUBB4B	2323.456141	5018.790874	3920.217397
AGAP4	250.9464709	107.0476228	368.9093468
COMMD6	221.2291257	229.8619497	273.3484919
PLA2G2A	10027.95305	2.4894796	887.8270124
IL17REL	5.503212081	0	5.555863657
HYKK	112.2655265	37.342194	57.78098203
OR7A5	8.80513933	4.9789592	1.111172731
C15orf62	2.201284833	1.659653067	6.667036389
FAM230G	0	0.829826533	0
RUFY4	2.201284833	3.319306133	18.88993643
ZNF383	254.2483982	207.4566333	265.5702828
HES4	30.81798766	98.74935747	94.44968217
IGFL1	0	0.829826533	0
ZNF669	162.8950776	432.3396239	137.7854187
PEAK3	7.704496914	7.4684388	23.33462736
LRRIQ4	8.80513933	14.9368776	11.11172731
CENPP	26.41541799	19.08601027	4.444690926
PLSCR1	434.7537544	96.25987787	130.0072096
OR7D1P	0	1.659653067	8.889381852
C3orf62	96.85653263	57.2580308	65.55919115
ENO4	41.82441182	15.76670413	55.55863657
ZNF559	472.1755966	440.6378892	733.3740027

SBK1	90.25267814	422.3817055	148.897146
OR6C6	0	1.659653067	0
BSPH1	1.100642416	0	4.444690926
SLC38A3	13.207709	378.4008992	23.33462736
OR6N2	0	0.829826533	6.667036389
GTF2F2	191.5117804	343.5481848	103.339064
CIBAR1	74.84368431	259.7357049	24.44580009
FOCAD	1391.212014	1544.307179	2625.701164
PRR19	4.402569665	36.51236747	85.56030032
ZP3	99.05781747	3.319306133	37.77987287
GPR15LG	2.201284833	0	0
H3-5	26.41541799	94.6002248	72.22622754
IFNA2	1.100642416	1.659653067	0
JAKMIP3	47.3276239	13.27722453	34.44635467
PPP3R2	0	19.9158368	12.22290005
GOLGA6L	2.201284833	0.829826533	32.22400921
PDCD1	1.100642416	0.829826533	0
CLEC2A	6.603854498	1.659653067	24.44580009
GPR21	165.0963624	143.5599903	173.3429461
DYNLT4	3.301927249	0.829826533	2.222345463
SELL	94.6552478	121.1546739	15.55641824
MAGEB5	0	0	14.44524551
CHM	716.518213	857.210809	664.4812934
BLOC1S5	31.91863007	97.91953094	23.33462736
DEFB108F	0	0	1.111172731
SRP72P2	1.100642416	1.659653067	1.111172731
CERKL	11.00642416	193.3495823	21.1122819
WASF4P	9.905781747	4.9789592	15.55641824
ACTBP11	26.41541799	19.08601027	26.66814555
SLC24A5	2.201284833	1.659653067	1.111172731
IER5L	137.580302	205.7969803	104.4502368
H2AX	115.5674537	259.7357049	87.78264578
INSC	12.10706658	10.78774493	14.44524551
SERPINA5	3.301927249	0	14.44524551
ACTMAP	279.5631737	484.6186955	324.4624376
LCTL	0	6.638612267	15.55641824
NCCRP1	6.603854498	4.149132667	0
KRTDAP	3.301927249	3.319306133	2.222345463
MIR3667H	29.71734524	19.9158368	21.1122819
ENSG0000	0	0.829826533	6.667036389
COL25A1	42.92505424	12.447398	140.0077642
FAM83G	188.2098532	387.5289911	260.0144192
CFAP77	3.301927249	286.290154	33.33518194
ENSG0000	1.100642416	0	0

SRSF10	857.4004423	1523.561515	695.5941299
HBA2	4.402569665	1759.232251	168.8982552
DUSP28	8.80513933	29.8737552	23.33462736
CCDC9B	94.6552478	13.27722453	45.55808199
NBR1	1628.950776	1518.582556	2579.03191
RALGAPA	4176.93797	2634.699243	9734.9843
NDOR1	124.372593	180.9021843	330.0183012
FBLL1	37.42184215	134.4318984	78.89326393
NKAIN2	8.80513933	1.659653067	4.444690926
PAQR9	3.301927249	8.298265334	4.444690926
CLEC20A	1.100642416	0.829826533	0
CFAP54	125.4732355	502.0450527	601.1444477
NPIPP1	3.301927249	3.319306133	1.111172731
CLN3	18.71092108	9.128091867	6.667036389
FAM72B	3.301927249	230.6917763	0
ASAH2	44.02569665	51.44924507	105.5614095
SUMO2	193.7130653	492.0871343	61.11450023
NANOS1	9.905781747	48.95976547	8.889381852
HMX3	2.201284833	11.61757147	3.333518194
IGFL3	3.301927249	0	0
GOLGA8M	1.100642416	0	4.444690926
ZNF177	0	0.829826533	0
RTL6	221.2291257	295.4182459	265.5702828
DPYD	573.4346989	171.7740924	473.3595836
S100A16	48.42826632	39.00184707	165.564737
ENSG0000	0	1.659653067	0
PTAR1	636.1713166	1076.285014	753.3751119
CC2D2B	61.63597531	23.23514293	5.555863657
RNASE9	1.100642416	1.659653067	2.222345463
SAXO2	66.03854498	24.894796	22.22345463
RHCE	41.82441182	32.3632348	56.6698093
C2orf80	2.201284833	3.319306133	10.00055458
IDO2	18.71092108	4.149132667	12.22290005
PARVB	152.9892959	107.8774493	112.2284459
TEKT4P2	0	1.659653067	0
SLC4A5	3.301927249	10.78774493	0
UROS	376.4197064	276.3322356	414.4674288
OR56A5	0	4.149132667	0
CYP51A1-	1.100642416	0.829826533	1.111172731
KRTAP24-	3.301927249	4.149132667	13.33407278
ZDHHC9	488.6852328	442.2975423	447.8026108
ZBED10P	26.41541799	34.8527144	35.55752741
QRFP	2.201284833	0	0
OR13D3P	0	0	7.77820912

SMIM15	184.9079259	663.8612267	96.67202764
OSTN	1.100642416	2.4894796	300.0166375
VWC2	4.402569665	3.319306133	0
FAM221A	100.1584599	96.25987787	110.0061004
TMEM120	255.3490406	187.5407965	321.1289194
FSIP2	72.64239948	461.3835526	270.0149737
RBM34	8.80513933	9.128091867	11.11172731
NOXA1	97.95717505	24.06496947	285.571392
TMEM198	13.207709	86.30195947	37.77987287
BCL2L15	15.40899383	9.128091867	3.333518194
FZD9	17.61027866	14.9368776	4.444690926
SPRED3	25.31477557	89.6212656	61.11450023
OPTC	2.201284833	0.829826533	6.667036389
PLET1	1.100642416	0.829826533	0
ADRB3	3.301927249	4.149132667	5.555863657
SKOR1	33.01927249	25.72462253	50.00277291
CATSPER4	6.603854498	3.319306133	13.33407278
PRELP	2944.218464	511.1731446	2929.05132
ZNF548	484.2826632	555.1539508	314.461883
MTF1	739.6317038	774.2281556	620.0343841
TMCO2	5.503212081	1.659653067	0
ZNF322P1	18.71092108	17.4263572	23.33462736
SHISA6	330.1927249	28.21410213	880.0488033
TMEM201	122.1713082	231.5216028	255.5697282
NHLRC3	342.2997915	321.1428684	134.4519005
HMX2	5.503212081	9.9579184	4.444690926
SNTN	3.301927249	2.4894796	2.222345463
ZDHHC11	325.7901552	212.4355925	150.0083187
CALHM6	4.402569665	3.319306133	0
CNR2	1.100642416	1.659653067	10.00055458
LINC00910	11.00642416	36.51236747	0
SLX4	368.7152095	648.0945226	916.7175034
GLRA4	3.301927249	0	0
ENTPD8	1.100642416	89.6212656	14.44524551
RPL14	933.344769	767.5895434	352.2417559
BEND4	183.8072835	7.4684388	147.7859733
RPSAP47	46.22698148	66.38612267	5.555863657
FAM78B	9.905781747	4.9789592	23.33462736
ZNF563	171.7002169	112.026582	134.4519005
TMC3	9.905781747	6.638612267	31.11283648
RPL10AP2	2.201284833	0	3.333518194
POTEA	3.301927249	4.149132667	0
FBF1	46.22698148	38.17202053	50.00277291
KLRG2	16.50963624	24.06496947	17.7787637

ASTL	3.301927249	8.298265334	25.55697282
MSL1	864.0042968	1077.944667	783.3767757
ENSG0000	56.13276323	51.44924507	100.0055458
LRRK2	771.5503338	331.1007868	388.910456
GJB3	4.402569665	0	15.55641824
INSYN2A	13.207709	10.78774493	36.66870014
TRMT2B	412.7409061	430.6799708	662.2589479
HACD4	97.95717505	24.894796	24.44580009
CFAP126	13.207709	9.128091867	13.33407278
NYX	2.201284833	4.9789592	1.111172731
FAM120A(	342.2997915	537.7275936	383.3545923
UTS2B	18.71092108	5.808785734	345.5747195
C9orf152	340.0985066	109.5371024	145.5636278
NOC2L	342.2997915	353.5061032	833.3795486
MSANTD1	26.41541799	9.9579184	10.00055458
AADACL3	4.402569665	5.808785734	0
DHFRP1	2.201284833	42.3211532	6.667036389
NELFB	291.6702403	546.8556855	1123.395631
SLC15A5	4.402569665	6.638612267	1.111172731
LIPI	5.503212081	1.659653067	27.77931829
LRRC66	50.62955115	108.7072759	92.22733671
ZNF292	4401.469023	3245.451572	1838.990871
HUS1B	19.81156349	18.25618373	8.889381852
KCTD21	91.35332055	55.59837774	76.67091847
SBSN	1.100642416	7.4684388	33.33518194
PROS2P	3.301927249	1.659653067	3.333518194
ADAT2	73.74304189	39.8316736	118.8954823
SHLD2P3	8.80513933	0.829826533	1.111172731
MAGEB16	0	0.829826533	4.444690926
VHLL	3.301927249	0.829826533	0
DUSP21	0	0	18.88993643
ZNF567	494.1884449	735.2263086	245.5691736
NDUFA4	381.9229185	564.2820427	470.0260654
ANKDD1E	19.81156349	9.9579184	47.78042745
ALKBH2	102.3597447	135.2617249	51.11394565
RNFT1	301.5760221	118.6651943	128.8960368
RNF222	3.301927249	1.659653067	11.11172731
CGB5	0	0	6.667036389
RELN	413.8415485	68.04577574	1315.628514
FAM111B	81.44753881	2833.027785	18.88993643
APOD	3671.743101	2969.119336	29762.76161
H1-0	3038.873711	2906.05252	764.4868392
GAGE2A	2.201284833	0.829826533	16.66759097
LITAF	700.0085768	545.1960324	671.1483298

TMEM120	92.45396297	62.23699	205.5669553
ARID2	4156.025764	2920.159571	1476.74856
RIMKLBP	13.207709	24.06496947	23.33462736
SF3B3	1809.456132	3685.259635	2004.555608
IL1RAPL2	8.80513933	19.9158368	0
BLOC1S3	75.94432672	44.8106328	47.78042745
SP6	25.31477557	28.21410213	21.1122819
ANKRD34	40.7237694	34.02288787	36.66870014
PLAC9	7.704496914	0	21.1122819
FAM47B	2.201284833	4.149132667	20.00110917
NKAPL	7.704496914	4.149132667	10.00055458
FSCB	5.503212081	12.447398	16.66759097
CLDN4	316.9850159	336.9095725	784.4879484
ZNF573	400.6338395	221.5636844	305.5725011
FAM47E	70.44111464	15.76670413	57.78098203
JPT1	220.1284833	1587.458158	386.6881105
ZNF527	194.8137077	224.053164	175.5652916
TNRC18P3	4.402569665	0	1.111172731
ZAR1L	1.100642416	2.4894796	12.22290005
KRTAP10-	0	2.4894796	4.444690926
S100A13	24.21413316	41.49132667	45.55808199
ZNF33A	2394.997898	2706.894152	1144.507913
KRT77	1.100642416	2.4894796	7.77820912
PCDH18	1300.959336	359.3148889	976.7208309
DCAF8L2	2.201284833	0	5.555863657
ZNF600	552.522493	761.7807576	263.3479374
BTBD8	309.280519	620.710247	797.8220212
LINC0099	0	0.829826533	0
MAOA	2542.483982	4774.821873	1390.077087
PAX8-AS1	50.62955115	120.3248473	43.33573653
C15orf61	128.7751627	165.9653067	101.1167186
ENSG0000	2.201284833	222.3935109	6.667036389
NUGGC	19.81156349	4.9789592	20.00110917
LINC0094	0	0.829826533	2.222345463
TSPYL1	1260.235567	464.7028587	720.03993
SPANXN3	0	4.149132667	0
TRIM64B	9.905781747	0.829826533	1.111172731
PNRC2	709.9143585	607.4330224	367.7981741
DRICH1	46.22698148	19.08601027	55.55863657
LINC0116	0	1.659653067	0
GJB5	17.61027866	4.149132667	2.222345463
FHIT	41.82441182	19.9158368	26.66814555
ALKAL2	7.704496914	2.4894796	5.555863657
ZKSCAN3	211.3233439	283.8006744	237.7909645

RRP7A	214.6252712	170.9442659	228.9015827
LIN54	920.13706	779.2071148	798.9331939
FAM53B	119.9700234	165.9653067	120.006655
FAM180A	4.402569665	2.4894796	73.33740027
BNIP5	2.201284833	3.319306133	33.33518194
SPANXN4	1.100642416	0	3.333518194
S100A14	6.603854498	87.131786	23.33462736
KAZN	253.1477557	394.1676033	340.0188558
SLC35E2B	203.618847	156.8372148	548.9193293
RPS2P46	83.64882364	125.3038065	91.11616398
TOGARAM	24.21413316	10.78774493	56.6698093
SPATA31I	1.100642416	1.659653067	3.333518194
NEMP2	48.42826632	142.7301637	123.3401732
KIAA0408	1.100642416	3.319306133	0
GSPT2	116.6680961	29.8737552	40.00221833
TBC1D28	6.603854498	3.319306133	20.00110917
C8orf76	16.50963624	34.02288787	16.66759097
CXCL17	62.73661773	48.95976547	33.33518194
OTUD6A	0	2.4894796	0
HMGB1	1339.481821	2470.39359	663.3701207
MMP23B	2.201284833	0	2.222345463
SH2D5	13.207709	8.298265334	2.222345463
SPATA41	1.100642416	11.61757147	0
ZFP92	8.80513933	52.2790716	1.111172731
RASSF10	136.4796596	17.4263572	151.1194915
GJB4	2.201284833	5.808785734	2.222345463
OR2L13	4.402569665	0.829826533	14.44524551
BLOC1S2	112.2655265	124.47398	65.55919115
SYCP2	486.483948	525.2801956	536.6964293
ZNF724	17.61027866	112.8564085	2.222345463
IL1RAP	150.788011	427.3606647	290.0160829
PTPRT	1139.164901	1087.902585	3932.440297
MYBPC1	782.556758	22.4053164	173.3429461
PAX5	4.402569665	695.394635	13.33407278
SPAG16-D	0	9.128091867	0
OR5K4	0	4.9789592	11.11172731
OR6M1	4.402569665	0.829826533	0
SPOCK3	1026.899374	930.2355439	20.00110917
ZNF676	0	0.829826533	14.44524551
ZNF699	162.8950776	236.500562	158.8977006
IFITM3P3	2.201284833	0.829826533	0
ADAM5	3.301927249	0	0
TDRD7	287.2676707	783.3562475	473.3595836
CFAP119	18.71092108	60.57733694	90.00499125

OR8A1	1.100642416	0.829826533	2.222345463
MATCAP1	83.64882364	126.1336331	311.1283648
HLA-DRB	1018.094235	282.1410213	287.7937374
VN1R2	0	2.4894796	21.1122819
MYT1	0	14.9368776	0
SERPINA3	7.704496914	0.829826533	7.77820912
AKR1C3	26.41541799	54.7685512	115.5619641
SPATS2L	953.1563325	1119.435994	820.0454758
OR11H13P	3.301927249	9.128091867	13.33407278
ZNF250	232.2355498	759.291278	516.6953201
WDSUB1	213.5246288	338.5692256	371.1316923
ZNF79	132.07709	141.9003372	285.571392
S100A4	151.8886534	76.34404107	30.00166375
PLEKHG4	15.40899383	54.7685512	192.2328825
FAT4	3387.777357	440.6378892	951.1638581
LINC0304	4.402569665	1.659653067	0
COLCA1	234.4368347	2294.470365	144.4524551
KIF19	12.10706658	1121.925473	74.44857301
OR6K2	0	1.659653067	8.889381852
ZNF681	117.7687385	306.2059908	40.00221833
ACADSB	655.9828801	445.6168484	780.0432575
STK40	332.3940097	303.7165112	584.4768567
RPS2P4	0	0	1.111172731
OR10J1	0	0.829826533	0
TMEM63A	1690.586751	262.2251845	1331.184932
CTSE	2.201284833	2.4894796	598.9221022
SEMA4A	416.0428334	25.72462253	411.1339106
HRCT1	63.83726015	19.9158368	40.00221833
MPHOSPH	916.8351328	371.7622869	505.5835928
RNF216P1	46.22698148	34.8527144	3.333518194
EEF1A1P5	1183.190598	592.4961448	540.0299475
GREB1	2383.991474	3023.058061	5058.058274
SIRPB2	34.11991491	7.4684388	31.11283648
ZNF766	682.3982981	1425.641984	496.694211
RYR1	191.5117804	386.6991645	922.2733671
SRGAP3	606.4539714	716.1402983	1314.517341
FAM217B	165.0963624	274.6725825	126.6736914
SULT1C3	5.503212081	0.829826533	14.44524551
TUBB	1.100642416	0	0
LCOR	965.2633991	1219.845004	320.0177467
SUPT5H	1625.648849	1202.418647	1950.108144
XPNPEP3	682.3982981	292.0989397	498.9165564
OR2C3	1.100642416	0	45.55808199
ZNF107	377.5203488	370.9324604	51.11394565

OR10S1	1.100642416	0	4.444690926
PPIA	4502.728125	7607.019831	2220.123117
ZNF471	326.8907976	304.5463377	652.2583934
ZNF836	1063.220574	751.8228392	382.2434196
ZNF493	774.8522611	742.6947474	464.4702017
LINC0052	3.301927249	0.829826533	0
GTF2IRD2	7.704496914	4.149132667	1.111172731
GRM7	30.81798766	62.23699	130.0072096
SUPT3H	161.7944352	268.0339703	206.678128
BECN2	3.301927249	0	0
NIF3L1	299.3747372	517.8117568	241.1244827
GARS1-D	187.1092108	95.43005134	25.55697282
ATP2A1	23.11349074	51.44924507	130.0072096
GUSBP15	1.100642416	6.638612267	1.111172731
IARS1	162.8950776	119.4950208	412.2450834
POM121	1524.389747	818.2089619	826.7125122
ZBTB44	952.0556901	721.949084	931.1627489
GIMAP5	19.81156349	0.829826533	7.77820912
STK31	34.11991491	31.53340827	34.44635467
CGB7	1.100642416	0	13.33407278
NLGN3	154.0899383	74.684388	275.5708374
OR8D1	0	0	3.333518194
ADH7	3.301927249	1.659653067	11.11172731
ZKSCAN7	14.30835141	0.829826533	0
ZNF729	5.503212081	52.2790716	8.889381852
CD55	701.1092192	355.1657563	788.9326393
CPNE4	1277.845845	19.9158368	4361.352971
ZNF565	172.8008594	129.4529392	158.8977006
NTNG2	55.03212081	17.4263572	130.0072096
ELAVL3	6.603854498	524.4503691	22.22345463
WDR5	331.2933673	672.159492	336.6853376
LONP1	790.2612549	1172.544892	1735.651807
C9orf163	4.402569665	5.808785734	11.11172731
TRRAP	5131.194945	3457.887165	4170.231261
NUDT11	18.71092108	2.4894796	15.55641824
SRGAP2B	84.74946605	195.8390619	107.7837549
FUT4	39.62312699	55.59837774	56.6698093
ASB13	71.54175706	54.7685512	204.4557826
SLC35F1	17.61027866	12.447398	0
ZNF34	182.7066411	384.2096849	196.6775735
ZNF781	1.100642416	0	0
OR4Q2	1.100642416	0.829826533	0
ZNF140	299.3747372	411.5939605	391.1328015
INCA1	11.00642416	13.27722453	4.444690926

ZNF774	149.6873686	80.49317374	30.00166375
PTPN1	1208.505373	1106.988596	768.9315302
EVL	839.7901636	359.3148889	616.7008659
SPANXD	1.100642416	0	0
THEM5	0	0.829826533	32.22400921
EPHB4	807.8715336	388.3588176	871.1594214
ZNF765	241.0406892	432.3396239	157.7865279
ZNF124	315.8843735	760.1211046	248.9026918
XRCC6	2250.813741	2618.932539	1193.399514
S100A5	4.402569665	1.659653067	1.111172731
C20orf204	17.61027866	29.04392867	46.66925472
PPP1R26	358.8094277	941.0232888	995.6107674
NBPF4	1.100642416	5.808785734	0
TSC22D2	1007.087811	824.0177476	1424.523442
CRYBA4	1.100642416	1.659653067	20.00110917
NPIPB15	105.661672	31.53340827	216.6786826
ZNF569	177.203429	528.5995018	165.564737
ARMCX4	575.6359837	647.264696	154.4530097
YRDC	29.71734524	155.1775617	162.2312188
ZNF777	636.1713166	213.2654191	378.9099014
PIK3R4	1324.072827	1648.865322	1395.632951
ZNF775	66.03854498	34.8527144	68.89270935
ZNF605	1014.792308	789.9948598	542.2522929
TRAPPC2	151.8886534	121.9845004	63.33684569
RFX8	16.50963624	9.9579184	25.55697282
MYL6B	70.44111464	185.0513169	116.6731368
ZNF799	149.6873686	172.6039189	310.0171921
FGF16	0	0	7.77820912
SIAH1	235.5374771	623.1997266	406.6892197
ENSG0000	0	0.829826533	0
GK2	5.503212081	2.4894796	14.44524551
C20orf96	326.8907976	350.1867971	511.1394565
ESRRG	157.3918655	134.4318984	62.22567296
NCOR2	7240.025814	3842.096849	5888.104304
SULT1A1	13.207709	18.25618373	1.111172731
ARL9	20.91220591	5.808785734	0
PRPF40A	2022.980761	2021.457435	751.1527665
GDAP2	640.5738863	1166.736106	702.2611663
TCEAL3	727.5246372	500.3853996	473.3595836
ANAPC7	672.4925164	1004.919932	514.4729747
TPK1	38.52248457	25.72462253	43.33573653
SLC6A9	101.2591023	31.53340827	94.44968217
AFAP1	374.2184215	235.6707355	814.4896121
NACA	3246.895128	1666.291679	1264.514568

OR9K1P	1.100642416	0.829826533	0
MYO18A	1306.462548	1160.92732	1828.990316
SPTSSB	63.83726015	11.61757147	20.00110917
BORCS6	78.14561156	56.42820427	214.4563372
MAN2A2	751.7387703	311.18495	808.9337485
MME	1057.717362	4279.415433	1593.421697
FAM72A	8.80513933	234.8409089	5.555863657
CCDC196	0	1.659653067	0
CACNA1H	852.9978726	394.9974299	2146.785717
SULF2	584.4411231	220.7338579	1426.745787
HBG2	0	9.128091867	0
LAMA2	3042.175639	1673.760118	5593.64353
PFN3	1.100642416	2.4894796	0
PLXNB2	9051.683232	2225.594762	4166.897743
OR5AC2	3.301927249	0	17.7787637
AJAP1	27.51606041	111.1967555	4.444690926
XRCC2	46.22698148	96.25987787	34.44635467
MYO6	5707.931571	1516.093076	2404.577791
MRTFA	716.518213	381.7202053	575.5874749
HDAC2	1007.087811	2467.074284	754.4862846
ZNF782	930.0428418	998.2813196	500.0277291
SLC22A25	5.503212081	4.149132667	14.44524551
POTEF	119.9700234	1.659653067	34.44635467
ZNF846	392.9293426	218.2443783	450.0249562
MMP1	20.91220591	4.9789592	6.667036389
ADH1B	25.31477557	23.23514293	220.0122008
UGT2B15	1.100642416	0.829826533	3.333518194
TCF4	1292.154197	536.8977671	776.7097393
WNK3	629.5674621	1368.383954	2137.896335
LUADT1	0	0.829826533	0
SDHAF3	171.7002169	201.6478476	58.89215477
HRH1	61.63597531	19.08601027	143.3412824
RABL6	487.5845904	663.0314002	902.2722579
ZNF136	169.4989321	255.5865723	272.2373192
ZKSCAN5	214.6252712	248.94796	201.1222644
ZNF502	5.503212081	2.4894796	2.222345463
ENSG0000	22.01284833	6.638612267	3.333518194
TTC30B	423.7473303	706.1823799	553.3640203
SLC30A10	7.704496914	10.78774493	21.1122819
TECPR2	648.2783832	487.9380016	730.0404846
TLR7	225.6316953	48.95976547	35.55752741
LINC0017	3.301927249	3.319306133	0
ZFP62	2189.177766	2971.608816	1098.949831
ERI2	562.4282747	682.947237	611.1450023

TOMM7	536.0128567	463.0432056	374.4652105
HSH2D	89.15203572	4.9789592	102.2278913
TRPV1	101.2591023	140.2406841	200.0110917
ZNF33B	943.2505508	1426.471811	467.8037199
PDXDC2P	72.64239948	26.55444907	48.89160018
ZNF512B	826.5824546	493.7467874	150.0083187
AMZ2	910.2312783	1379.171698	568.9204385
ZNF431	620.7623228	604.1137163	247.7915191
ALKAL1	4.402569665	7.4684388	0
NF1	636.1713166	414.0834401	697.8164753
VKORC1L	429.2505424	321.9726949	231.1239281
ZNF418	201.4175622	643.1155634	443.3579198
DAPK1	1206.304088	638.1366042	2737.92961
LCE1B	0	0.829826533	0
HLA-DQA	662.5867346	70.53525534	23.33462736
COL27A1	1280.04713	91.28091867	1227.845868
LINC0156(	4.402569665	9.128091867	0
GM2A	322.488228	235.6707355	600.033275
H2AC13	61.63597531	2491.139253	78.89326393
CLPSL2	1.100642416	4.9789592	3.333518194
S100A2	44.02569665	73.02473494	3.333518194
SNHG17	89.15203572	101.2388371	4.444690926
ZNF700	356.6081429	511.1731446	430.0238471
POU3F4	0	1.659653067	0
OR14A16	1.100642416	0.829826533	1.111172731
CD47	1322.972184	915.2986663	981.1655219
OR52K1	5.503212081	0	4.444690926
TLE1	664.7880194	780.8667679	2857.936265
MAML3	2596.41546	2435.540875	1487.860287
H2AC11	195.9143501	3232.174347	42.22456379
STRN3	1564.012874	1779.977914	1135.618532
ZNF239	248.7451861	160.9863475	73.33740027
NPIPB10P	11.00642416	4.149132667	37.77987287
SPINK14	0	0	1.111172731
SPRR2B	2.201284833	0	3.333518194
CTBP1-DT	36.32119974	43.15097974	20.00110917
CHRNG	0	1.659653067	5.555863657
ZSCAN16	112.2655265	134.4318984	66.67036389
MVB12B	336.7965794	1020.686636	163.3423915
ILRUN	751.7387703	1462.154352	1075.615204
POTEI	345.6017187	11.61757147	102.2278913
ADA	38.52248457	52.2790716	28.89049102
ARID5A	238.8394043	54.7685512	235.5686191
PATE2	3.301927249	4.149132667	10.00055458

PPTC7	169.4989321	392.5079503	154.4530097
TOMM20L	9.905781747	6.638612267	1.111172731
RGPD4	26.41541799	22.4053164	20.00110917
NHLRC2	2017.477549	2803.983856	1476.74856
H2AC7	3.301927249	0.829826533	0
ZFP28	269.657392	405.7851748	431.1350198
CRACDL	203.618847	572.580308	126.6736914
ZNG1C	66.03854498	78.00369414	47.78042745
SCN8A	641.6745287	414.9132667	362.2423104
LAMB3	242.1413316	9.128091867	73.33740027
H2BC26	4.402569665	2.4894796	0
ENSG0000	0	0.829826533	0
TEX43	3.301927249	1.659653067	0
KPNA5	170.5995745	146.0494699	180.0099825
ANKRD36	0	0.829826533	2.222345463
ARHGEF1	3287.618897	2711.873111	2906.827865
HCAR1	74.84368431	2.4894796	2.222345463
PDLIM7	1331.777324	491.2573078	1101.172177
FLNA	32889.39668	14060.58078	10892.82629
TMEM26	441.3576089	15.76670413	324.4624376
RPS26P11	4.402569665	0.829826533	2.222345463
SRGAP1	779.2548307	600.7944102	310.0171921
FAM3C	388.526773	282.9708479	192.2328825
NOP9	49.52890873	14.9368776	84.44912759
ZNF705A	3.301927249	0.829826533	7.77820912
SLC39A10	1479.263408	1549.286138	885.604667
SCOC-AS1	9.905781747	15.76670413	0
CASP4	80.34689639	13.27722453	13.33407278
AP2A1	654.8822377	1011.558544	1466.748005
ZNF585A	344.5010763	654.7331348	516.6953201
FUT11	315.8843735	520.3012364	663.3701207
SMIM10L2	6.603854498	9.9579184	20.00110917
ANXA4	953.1563325	610.7523286	574.4763022
LAGE3	30.81798766	60.57733694	102.2278913
WDR5B	350.0042884	304.5463377	297.794292
FAM163B	0	16.59653067	3.333518194
NPIPB9	5.503212081	23.23514293	11.11172731
METTL9	27.51606041	112.8564085	26.66814555
ZNF138	250.9464709	167.6249597	74.44857301
ZNF429	495.2890873	557.6434304	247.7915191
ZNF470	320.2869431	384.2096849	281.1267011
SERTAD1	38.52248457	38.17202053	115.5619641
ZNF100	13.207709	24.894796	11.11172731
EOLA2	141.9828717	176.7530516	257.7920737

ZNF398	719.8201403	244.7988273	207.7893008
ZSCAN25	133.1777324	81.32300027	78.89326393
ANXA6	1249.229142	298.737552	884.4934942
ZNF441	187.1092108	136.921378	192.2328825
GMFB	117.7687385	334.4200929	83.33795486
SIGLEC15	4.402569665	6.638612267	0
ZNF420	200.3169198	256.4163988	350.0194104
ZNF763	18.71092108	13.27722453	14.44524551
ZMYM1	576.7366261	953.4706868	664.4812934
DTHD1	75.94432672	3.319306133	16.66759097
H4C3	114.4668113	1858.811435	245.5691736
ZSCAN26	237.7387619	210.7759395	258.9032464
MAFG	72.64239948	139.4108576	123.3401732
ARRDC1	182.7066411	104.5581432	602.2556204
KIAA1671	1319.670257	773.3983291	1707.872488
KRT35	3.301927249	0	5.555863657
IGF2R	4490.621058	8158.02465	5805.877522
LCE1C	0	2.4894796	0
NPSR1-AS	0	0.829826533	0
GAL3ST4	104.5610295	44.8106328	124.4513459
HRG-AS1	6.603854498	5.808785734	4.444690926
DYNC1H1	12350.30855	17155.00392	20745.5949
SLC6A17	25.31477557	180.0723577	45.55808199
PCBP2	855.1991575	1130.223738	887.8270124
ZGPAT	31.91863007	30.70358173	74.44857301
SLC25A29	582.2398382	424.0413586	1036.724158
PGAP1	565.730202	1089.562238	735.5963482
SRC	17.61027866	57.2580308	15.55641824
ZNF679	4.402569665	1.659653067	0
ZNF682	128.7751627	282.9708479	187.7881916
OR8B8	1.100642416	0.829826533	7.77820912
ZNF772	213.5246288	392.5079503	490.0271746
ZNF257	61.63597531	338.5692256	32.22400921
PCNX3	599.8501169	819.0387884	2316.795145
ADAM32	139.7815869	14.10705107	3.333518194
ACSL5	494.1884449	63.89664307	315.5730557
LRRC8B	440.2569665	787.5053802	610.0338296
ENSG0000	1.100642416	1.659653067	0
ABCB8	205.8201318	165.1354801	422.2456379
H3C12	24.21413316	57.2580308	23.33462736
SND1	3090.603905	2004.860905	2214.567254
OR4C4P	1.100642416	0.829826533	17.7787637
ZNF785	183.8072835	143.5599903	295.5719466
SULT1A2	4.402569665	14.9368776	47.78042745

NEK5	101.2591023	14.9368776	68.89270935
PSMD12	1452.84799	2543.418325	748.930421
MAGEA6	2.201284833	7.4684388	0
ADGRA1	9.905781747	8.298265334	1.111172731
ATP6AP1-	2.201284833	8.298265334	0
PIWIL2	31.91863007	28.21410213	151.1194915
MIRLET7I	143.0835141	107.0476228	38.8910456
NOL4L	651.5803104	1080.434146	326.684783
SSXP1	1.100642416	0	4.444690926
CYSRT1	9.905781747	4.149132667	14.44524551
SLC22A4	29.71734524	5.808785734	25.55697282
ZSCAN5B	4.402569665	7.4684388	10.00055458
ENTPD4	744.0342734	1125.244779	685.5935753
C1D	232.2355498	83.81247987	51.11394565
TBC1D9B	343.4004339	116.1757147	268.903801
OR1J2	5.503212081	16.59653067	48.89160018
H4C11	27.51606041	50.61941854	61.11450023
SLC2A7	2.201284833	2.4894796	18.88993643
FAM110D	7.704496914	7.4684388	0
SERPINA1	91.35332055	94.6002248	16.66759097
TPSB2	190.411138	3.319306133	8.889381852
KANK2	1420.929359	907.8302275	1298.960923
EIF4BP6	24.21413316	39.00184707	45.55808199
C6orf141	22.01284833	4.9789592	15.55641824
GTF2E2	427.0492575	551.8346447	166.6759097
IL27	0	2.4894796	5.555863657
GUCA2A	0	0.829826533	1.111172731
RAD54B	35.22055732	351.0166236	28.89049102
ZNF165	42.92505424	216.5847252	72.22622754
SYNGAP1	33.01927249	17.4263572	113.3396186
RAMP2-A	34.11991491	8.298265334	2.222345463
FITM2	126.5738779	92.1107452	154.4530097
BLM	62.73661773	528.5995018	34.44635467
HMGA2-A	8.80513933	1.659653067	0
KRBOX5	232.2355498	395.8272564	187.7881916
GATA3-A	2.201284833	0.829826533	0
OR10D3	3.301927249	4.9789592	14.44524551
DDI2	908.0299934	436.4887566	572.2539567
ENSG0000	5.503212081	0	6.667036389
SVIL	5702.428359	3773.221247	3947.996715
TMEM132	2.201284833	0.829826533	0
TRIM33	3990.929401	4356.5893	1865.659016
LRP10	1034.603871	412.4237871	2875.715029
PELI1	286.1670282	794.973819	322.2400921

ZNF655	673.5931588	395.8272564	255.5697282
MRPL21	214.6252712	393.3377768	215.5675099
LYPD2	0	4.149132667	6.667036389
UAP1L1	64.93790256	30.70358173	63.33684569
BNIP3P1	2.201284833	4.149132667	12.22290005
ZNF98	5.503212081	154.3477352	26.66814555
FBXL22	46.22698148	3.319306133	5.555863657
ZNF786	321.3875856	284.6305009	291.1272556
ZNF517	46.22698148	102.0686636	160.0088733
S100A7L2	4.402569665	0.829826533	0
ZNF675	278.4625313	590.0066652	86.67147305
SLC22A5	242.1413316	50.61941854	264.4591101
DACT3	221.2291257	17.4263572	13.33407278
ADARB1	855.1991575	429.8501443	1196.733032
ZNF860	124.372593	34.8527144	73.33740027
HTT	2652.548223	2795.685591	6288.126487
OR6N1	0	0	8.889381852
C5AR1	71.54175706	124.47398	253.3473828
DIO3	11.00642416	2.4894796	5.555863657
CYP2B6	4.402569665	2.4894796	2.222345463
DCHS2	3.301927249	0.829826533	0
VEPH1	198.1156349	12.447398	60.0033275
FABP12	4.402569665	6.638612267	4.444690926
SHPK	3.301927249	4.149132667	2.222345463
OR51D1	2.201284833	1.659653067	3.333518194
IPP	424.8479727	189.2004496	470.0260654
OPALIN	4.402569665	1.659653067	13.33407278
OR13G1	4.402569665	0	14.44524551
MAP3K5	2682.265569	1017.36733	3187.954566
OGDHL	9.905781747	87.96161254	85.56030032
CYP2F1	4.402569665	1.659653067	16.66759097
GSTK1	365.4132822	152.6880821	407.8003924
HNRNPAE	932.2441266	3145.042561	442.2467471
OR2L5	1.100642416	1.659653067	15.55641824
STMN3	112.2655265	733.5666555	146.6748005
PDGFA	223.4304105	78.83352067	184.4546734
GYPE	3.301927249	7.4684388	2.222345463
COL13A1	90.25267814	108.7072759	113.3396186
OR7E85BF	0	0.829826533	0
SPN	107.8629568	16.59653067	43.33573653
ZNF695	18.71092108	150.1986025	0
ZNF628	83.64882364	105.3879697	222.2345463
GALP	0	0.829826533	10.00055458
SLC2A10	433.653112	24.894796	446.691438

ZNF665	238.8394043	468.8519914	325.5736103
RPF2	313.6830886	233.1812559	97.78320037
LINC0047	0	0	1.111172731
SLC28A3	8.80513933	4.149132667	16.66759097
FAM177B	7.704496914	8.298265334	2.222345463
MIB2	302.6766645	161.816174	852.269485
OR6Y1	1.100642416	1.659653067	4.444690926
MYO5A	1241.524646	1141.84131	1143.396741
IRF1-AS1	248.7451861	86.30195947	146.6748005
GZMM	6.603854498	1.659653067	15.55641824
ATG7	527.2077174	422.3817055	770.0427029
SIPA1L1	1128.158477	2468.733937	1394.521778
TTC30A	439.1563241	711.9911656	653.3695661
SSPOP	269.657392	28.21410213	711.1505481
ELANE	1.100642416	0	0
RAB40C	116.6680961	231.5216028	198.8999189
PIGN	491.9871601	563.4522162	882.2711488
COL4A6	180.5053563	61.40716347	48.89160018
ZNF624	279.5631737	337.7393991	228.9015827
HHLA3	52.83083598	26.55444907	22.22345463
HOXA4	31.91863007	13.27722453	18.88993643
TOPORS	1496.873686	2521.842835	1116.728595
BCO2	37.42184215	43.98080627	125.5625187
GPX1P1	17.61027866	30.70358173	20.00110917
KCNMB2	6.603854498	44.8106328	0
ENSG0000	1.100642416	0.829826533	0
ENTPD6	2174.869415	514.4924507	2269.014718
DMBX1	0	6.638612267	7.77820912
OR11L1	4.402569665	0	16.66759097
ENPP1	523.9057902	234.8409089	147.7859733
ATP11AUI	1.100642416	0.829826533	2.222345463
CCDC154	13.207709	10.78774493	72.22622754
FAR1	1023.597447	1191.630902	468.9148927
CPLANE1	5002.419782	3610.575247	10863.9358
ZNF841	3462.621042	1722.719883	2183.454417
MFAP5	7.704496914	18.25618373	54.44746384
MYH6	8.80513933	17.4263572	52.22511838
VN1R5	0	0	5.555863657
ZNF615	1052.21415	535.238114	497.8053837
EOLA1	78.14561156	100.4090105	65.55919115
CDC42SE1	449.0621058	418.2325728	342.2412013
UBE2Q2P1	0	1.659653067	0
MPEG1	621.8629652	219.0742048	160.0088733
DPP4	1218.411155	53.10889814	28.89049102

SERPINB1	7.704496914	4.149132667	2.222345463
PDCD1LG	28.61670282	4.149132667	10.00055458
ZNF433	289.4689555	288.7796336	511.1394565
CCER1	7.704496914	7.4684388	14.44524551
DNAH10	46.22698148	67.2159492	111.1172731
SLC22A24	6.603854498	2.4894796	6.667036389
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0	3.333518194
OR51C1P	51.73019357	0	4.444690926
KRTAP26-	2.201284833	0.829826533	11.11172731
CBX3P7	0	0.829826533	0
SPTAN1	5246.762398	5485.153386	6710.372125
NMB	1.100642416	0	0
PARVA	567.9314868	215.7548987	297.794292
KLHL14	23.11349074	126.9634596	6.667036389
OR6C74	3.301927249	0.829826533	3.333518194
FAM114A	1057.717362	300.3972051	650.0360479
RPE	559.1263475	1313.615402	568.9204385
ZNF460	1143.567471	1539.328219	1598.977561
CR1L	34.11991491	14.9368776	50.00277291
PHF2	1032.402586	1086.242932	1275.626296
RPS26	733.0278493	245.6286539	93.33850944
C14orf178	1.100642416	2.4894796	3.333518194
PTMAP2	14.30835141	35.68254093	0
SCGB1D4	2.201284833	0.829826533	1.111172731
PSAP	7105.74744	9590.305246	26310.34793
S100A10	900.3254965	642.2857368	888.9381852
CFAP43	255.3490406	56.42820427	374.4652105
LHFPL5	1.100642416	27.3842756	4.444690926
RPL37A	1698.291248	1984.945068	1177.843095
HOXC6	179.4047139	41.49132667	71.11505481
TXNRD3	208.0214167	202.4776741	591.1438931
CFD	3.301927249	0	3.333518194
STPG3	9.905781747	7.4684388	0
MCMBP	759.4432672	2769.131142	1025.612431
EME2	113.3661689	50.61941854	307.7948466
KLHDC1	172.8008594	80.49317374	134.4519005
ZNF81	254.2483982	331.1007868	200.0110917
TAF13	248.7451861	429.0203178	165.564737
ATAD3A	173.9015018	229.8619497	354.4641013
OR5B17	3.301927249	0	3.333518194
OR52M1	3.301927249	2.4894796	0
FAM118B	138.6809445	149.368776	121.1178277
ZNF461	224.5310529	241.4795212	257.7920737

ENSG0000	34.11991491	34.8527144	3.333518194
CCDC180	27.51606041	36.51236747	3.333518194
SLC9A8	514.0000084	371.7622869	556.6975385
OCLN	39.62312699	11.61757147	4.444690926
CFAP299	7.704496914	10.78774493	25.55697282
H4C16	256.449683	588.3470122	456.6919926
CYP2A13	3.301927249	3.319306133	8.889381852
ZNF181	318.0856583	373.42194	281.1267011
SLC22A20	9.905781747	5.808785734	30.00166375
OR8G1	1.100642416	3.319306133	8.889381852
INKA2	47.3276239	170.9442659	46.66925472
ZNF44	504.0942267	377.5710727	478.9154472
GPAA1	187.1092108	353.5061032	887.8270124
ADAMTSI	255.3490406	382.5500319	105.5614095
SGTB	149.6873686	180.9021843	172.2317734
ZNF790	280.6638162	223.2233375	248.9026918
PRB3	0	0	1.111172731
CYRIA	315.8843735	154.3477352	181.1211552
MYO1C	1555.207734	1510.284291	1974.553944
MDS2	0	1.659653067	17.7787637
OR7E13P	1.100642416	0	2.222345463
NKIRAS1	108.9635992	209.1162864	150.0083187
OR1S2	2.201284833	0.829826533	16.66759097
UGT2B17	12.10706658	4.149132667	131.1183823
MEIG1	1.100642416	4.149132667	0
SLC22A12	3.301927249	0.829826533	6.667036389
KIF13B	1814.959344	1584.138852	1782.321061
NRAP	37.42184215	10.78774493	38.8910456
ADH5	395.1306275	467.1923383	575.5874749
SLC22A6	3.301927249	0.829826533	46.66925472
H2BC12	1230.518221	3477.803001	473.3595836
TEAD4	71.54175706	116.1757147	43.33573653
SPG7	717.6188554	439.8080627	1037.835331
HRNR	9.905781747	15.76670413	151.1194915
IFNA1	0	2.4894796	0
ZNF677	189.3104956	32.3632348	142.2301096
ERO1A	407.237694	1931.006343	165.564737
ZNF823	312.5824462	378.4008992	303.3501557
CYYR1-AS	0	0	1.111172731
ZNF347	859.6017271	1675.419771	781.1544302
OR5H2	3.301927249	1.659653067	0
PLCG2	5.503212081	14.9368776	4.444690926
FCHSD1	156.2912231	107.8774493	161.1200461
ZNF71	178.3040714	248.94796	122.2290005

S100A6	257.5503254	427.3606647	128.8960368
RPL12	1208.505373	1576.670413	755.5974574
DNM3	208.0214167	133.6020719	197.7887462
ZNF121	730.8265644	1311.125923	433.3573653
MPZL1	921.2377024	844.763411	618.9232114
VPS13A	4630.402645	7353.922739	5696.982594
MBP	198.1156349	182.5618373	187.7881916
ELOVL2	71.54175706	516.1521038	61.11450023
GOLGA6L	18.71092108	4.149132667	18.88993643
LEKR1	37.42184215	25.72462253	24.44580009
C1orf122	33.01927249	41.49132667	63.33684569
SNHG12	11.00642416	26.55444907	0
ZNF734P	5.503212081	1.659653067	0
ENSG0000	1.100642416	0	0
CLEC9A	13.207709	0.829826533	13.33407278
KEL	4.402569665	1.659653067	3.333518194
NOL8	135.3790172	56.42820427	94.44968217
IRAK4	213.5246288	131.1125923	111.1172731
ODAD3	11.00642416	33.19306133	34.44635467
DLGAP2	0	0	10.00055458
MRPL42	539.314784	1248.888933	297.794292
ENTPD7	226.7323378	159.3266944	158.8977006
ZNF335	653.7815953	424.0413586	1328.962587
ZNF560	15.40899383	11.61757147	15.55641824
TUBA3C	1.100642416	3.319306133	18.88993643
RPS4X	5335.914434	5707.546896	3281.293076
ZNF273	94.6552478	112.026582	24.44580009
ZNF84	1165.580319	1823.128894	630.0349387
MAK16	281.7644586	440.6378892	112.2284459
ZNF667	233.3361923	311.18495	430.0238471
AVPR1B	2.201284833	14.9368776	1168.953713
SIRPA	454.5653179	309.5252969	522.2511838
DSCR8	0	0.829826533	0
GRK6	176.1027866	401.6360421	330.0183012
PRIM1	103.4603871	336.9095725	33.33518194
MARCHF5	292.7708827	384.2096849	421.1344652
POTEH	432.5524696	4.9789592	41.11339106
NPIPB13	214.6252712	100.4090105	210.0116462
AKR1B10	4.402569665	0.829826533	15.55641824
SULT1C4	35.22055732	7.4684388	42.22456379
CYP2A7	4.402569665	1.659653067	25.55697282
ZBTB14	290.5695979	484.6186955	274.4596647
CD2AP	1433.036426	1936.815129	617.8120387
NUP62CL	25.31477557	213.2654191	60.0033275

SFI1	342.2997915	429.0203178	524.4735292
TMPRSS1	16.50963624	1.659653067	0
ZNF649	1560.710946	535.238114	1044.502368
ADH4	6.603854498	1.659653067	45.55808199
ZNF248	822.179885	555.1539508	307.7948466
ENSG0000	3.301927249	0	0
CHSY3	39.62312699	61.40716347	30.00166375
TOR4A	51.73019357	59.7475104	91.11616398
LPAR1	464.4710997	126.9634596	383.3545923
MB	80.34689639	40.66150013	16.66759097
OR2L3	2.201284833	9.128091867	34.44635467
HIBCH	643.8758135	555.9837774	654.4807388
ZNF544	275.1606041	789.1650332	662.2589479
TMEM229	30.81798766	24.894796	74.44857301
SOWAHC	85.85010847	156.8372148	175.5652916
ZNF770	1453.948632	2131.824364	688.9270935
ZNF849P	7.704496914	4.9789592	1.111172731
ZNF876P	6.603854498	14.9368776	3.333518194
NPIPB6	19.81156349	68.04577574	66.67036389
HMGN5	115.5674537	202.4776741	168.8982552
MIER1	1018.094235	1107.818422	624.4790751
MAN1A2	2698.775205	5250.312477	2642.368755
SVIP	103.4603871	11.61757147	23.33462736
ZNF251	4.402569665	24.06496947	18.88993643
DDRGK1	434.7537544	321.9726949	345.5747195
FAM47C	0	4.149132667	51.11394565
TFDP1	303.7773069	711.9911656	430.0238471
CLEC4C	4.402569665	4.149132667	0
ZNF607	283.9657434	344.3780113	292.2384284
BPIFA1	2.201284833	2.4894796	13.33407278
ZNF334	1519.987177	1325.232974	1890.104816
HSD17B11	187.1092108	105.3879697	334.4629922
SZT2	2314.651001	999.1111462	5873.659058
SULT1C2	4.402569665	131.9424188	17.7787637
ZXDA	236.6381195	175.0933985	190.0105371
RPS6KL1	23.11349074	115.3458881	3.333518194
CACNA1E	17.61027866	1570.031801	131.1183823
QRICH1	12.10706658	8.298265334	2.222345463
AFDN-DT	11.00642416	2.4894796	2.222345463
FKBP1C	19.81156349	29.8737552	82.22678213
DDX42	2908.997906	2601.506182	1925.662344
GUSBP13	3.301927249	1.659653067	1.111172731
RPL23A	2231.002178	2021.457435	1587.865833
SLC29A3	134.2783748	219.9040313	234.4574463

CYP2A7P2	0	0.829826533	4.444690926
STYX	245.4432588	448.106328	95.5608549
UBL5	303.7773069	925.2565847	1038.946504
HELZ	5541.734566	4296.84179	2644.591101
TMEM116	107.8629568	238.1602151	122.2290005
UCKL1	441.3576089	311.18495	731.1516573
OR5B21	2.201284833	1.659653067	5.555863657
CARD11	183.8072835	34.02288787	73.33740027
ZNF485	82.54818122	34.8527144	31.11283648
PEG3	289.4689555	17.4263572	232.2351009
SDAD1	740.7323462	346.0376644	512.2506292
BMS1P9	2.201284833	0	1.111172731
ZKSCAN8	611.9571835	878.7862988	563.3645748
PHETA1	47.3276239	61.40716347	61.11450023
TMEM239	0	0	12.22290005
HYLS1	78.14561156	114.5160616	44.44690926
MYL4	0	2.4894796	12.22290005
ZNF442	103.4603871	170.9442659	262.2367646
ZNF813	202.5182046	422.3817055	326.684783
HOXC4	89.15203572	4.9789592	26.66814555
DCAF12L2	23.11349074	77.1738676	145.5636278
PIM3	200.3169198	124.47398	315.5730557
GET3	292.7708827	451.4256342	570.0316112
ENSG0000	2.201284833	3.319306133	2.222345463
ASPH	1394.513941	2355.877528	2661.258692
OR7A11P	1.100642416	0	6.667036389
SPRED2	408.3383364	381.7202053	450.0249562
WWP2	1065.421859	432.3396239	1312.294996
GFPT1	2975.036451	1919.388772	1798.988652
UVRAG	425.9486151	472.1712975	382.2434196
KRTAP13-	1.100642416	1.659653067	1.111172731
ZNF26	471.0749542	631.4979919	577.8098203
TMEM207	6.603854498	3.319306133	14.44524551
ITSN2	2302.543935	1606.544169	1891.215989
NTRK1	19.81156349	51.44924507	12.22290005
BZW1P2	15.40899383	4.9789592	2.222345463
OGA	4490.621058	2106.929568	4272.459152
ZNF658B	18.71092108	0.829826533	2.222345463
MT1F	17.61027866	116.1757147	32.22400921
TCAF1	12.10706658	5.808785734	3.333518194
ZNF69	203.618847	58.08785734	153.3418369
TXNRD1	806.7708911	1858.811435	1224.51235
NRARP	49.52890873	253.9269192	70.00388208
ZNF583	217.9271984	214.9250721	121.1178277

CCT8L2	3.301927249	2.4894796	5.555863657
ZNF568	124.372593	232.3514293	127.7848641
LINC0269	0	0	1.111172731
ZXDB	344.5010763	326.9516541	328.9071285
ZNF480	395.1306275	679.6279308	284.4602192
ZNF587	990.5781747	872.9775131	1105.616868
TPM2	1796.248423	117.0055412	385.5769378
FLVCR1-D	5.503212081	3.319306133	0
RTP2	0	2.4894796	6.667036389
SH3BGRL	205.8201318	171.7740924	178.8988098
ZNF808	1570.616728	1423.982331	1058.947613
ANKRD35	52.83083598	4.149132667	38.8910456
B3GNT6	61.63597531	4.149132667	1203.400068
YTHDF2	879.4132906	2155.889334	1038.946504
NBR2	25.31477557	58.08785734	38.8910456
TMA16	140.8822293	243.9690008	61.11450023
HLA-DRB	1031.301944	313.6744296	170.0094279
ATL1	280.6638162	697.054288	234.4574463
CNGA1	343.4004339	33.19306133	603.3667932
MAFK	85.85010847	66.38612267	56.6698093
ARMH1	34.11991491	9.9579184	40.00221833
ZNF43	460.06853	1079.60432	312.2395375
GPN1	166.1970049	266.3743172	190.0105371
PLN	96.85653263	32.3632348	0
PABPC1P2	0	0.829826533	1.111172731
C2CD4A	6.603854498	4.149132667	63.33684569
ZNF28	983.9743202	1283.741647	553.3640203
ITGBL1	334.5952946	335.2499195	312.2395375
ZNF511	30.81798766	67.2159492	16.66759097
C20orf203	14.30835141	20.74566333	2.222345463
ZNF627	248.7451861	438.1484096	327.7959558
KCNRG	5.503212081	0.829826533	0
WDHD1	137.580302	1641.396883	44.44690926
ENSG0000	0	0	10.00055458
ZNF789	313.6830886	156.0073883	165.564737
CTNND1	128.7751627	109.5371024	30.00166375
DDX39B	1.100642416	0.829826533	0
SLC34A3	14.30835141	4.9789592	40.00221833
RD3	0	0	1.111172731
SH2D1B	3.301927249	1.659653067	27.77931829
ARC	7.704496914	40.66150013	4.444690926
ENSG0000	0	0.829826533	0
NUDT16	271.8586768	356.8254093	386.6881105
TLK1	3504.445453	3656.215706	2646.813446

LRBA	13010.694	15170.05886	28909.38095
APRG1	46.22698148	9.9579184	7.77820912
ZNF536	88.0513933	2.4894796	91.11616398
MMP17	13.207709	42.3211532	226.6792372
OR2M2	2.201284833	0.829826533	0
BAZ1A	2169.366203	2998.993092	1512.306087
AKR1C4	16.50963624	2.4894796	7.77820912
COPS8	213.5246288	312.0147765	368.9093468
PPIAP22	159.5931504	235.6707355	44.44690926
CCDC69	129.8758051	19.9158368	10.00055458
MDM4	2697.674562	1987.434547	1395.632951
RYR2	2730.693835	205.7969803	904.4946034
ZNF534	12.10706658	13.27722453	78.89326393
KLHL9	815.5760305	1126.904432	830.0460304
FAM3D	52.83083598	0	256.680901
NCOA6	7563.614685	5861.064805	3867.992278
STK39	1299.858694	1009.898891	1071.170513
TAT	3.301927249	2.4894796	0
ABHD17A	3.301927249	0.829826533	1.111172731
C6orf89	1370.299808	1031.474381	1043.391195
CALM1	2206.788045	4496.000158	1248.95815
LPA	52.83083598	8.298265334	85.56030032
ENSG0000	1.100642416	0	0
TAFA2	30.81798766	35.68254093	34.44635467
OR10G6	2.201284833	2.4894796	5.555863657
SKIC3	3151.139238	2974.098296	2675.703937
TUSC1	46.22698148	105.3879697	134.4519005
MAGEA1	0	4.9789592	0
PAPSS2	105.661672	103.7283167	104.4502368
SLC9A6	234.4368347	424.8711851	337.7965104
FAN1	14.30835141	15.76670413	11.11172731
ABCA4	14.30835141	20.74566333	218.9010281
EIF1AY	280.6638162	47.3001124	33.33518194
MT-ND6	541.5160688	2303.598457	50.00277291
IPO9	1774.235575	3548.338257	1322.29555
GPX6	5.503212081	1.659653067	4.444690926
CEP290	1750.021442	1643.886363	1904.550062
SSBP3-AS	4.402569665	3.319306133	0
MT-CO2	5159.811648	19153.22622	220.0122008
GLMP	528.3083598	249.7777865	830.0460304
TOGARAM	1090.736635	1140.181657	1578.976451
ANKRD13	68.23982981	227.3724701	127.7848641
ECI2	851.8972302	1077.11484	622.2567296
UNC13B	2268.42402	1632.268791	5990.332195

TEX45	16.50963624	6.638612267	0
MT-CYB	7736.415544	25539.57122	387.7992833
LDB1	1022.496805	345.2078379	478.9154472
PPP1R14C	11.00642416	48.95976547	36.66870014
CTR9	910.2312783	664.6910532	704.4835117
SMOC1	85.85010847	154.3477352	168.8982552
F5	729.725922	270.5234499	143.3412824
LRRTM3	136.4796596	1.659653067	53.33629111
ZNF652	3890.770942	1367.554127	1098.949831
SMURF1	1145.768755	318.6533888	566.698093
SLC5A3	472.1755966	2093.652344	1653.425024
MTCO3P1	0	6.638612267	0
GPATCH3	124.372593	188.3706231	327.7959558
CDC42BPI	3769.700276	3504.35745	6334.795742
PLXNB3	162.8950776	73.85456147	298.9054648
OXCT2	12.10706658	13.27722453	13.33407278
RPL10A	1832.569623	1664.632026	2413.467173
COLGALT	99.05781747	12.447398	26.66814555
EPS8L3	5.503212081	9.128091867	44.44690926
EGFL6	15.40899383	13.27722453	23.33462736
MT-ND2	8914.10293	27757.69754	362.2423104
SYCP1	7.704496914	12.447398	3.333518194
APCDD1L	4.402569665	8.298265334	4.444690926
RCSD1	122.1713082	82.1528268	50.00277291
RASSF9	83.64882364	9.128091867	66.67036389
FAM169A	169.4989321	236.500562	388.910456
ZNF830	305.9785917	204.1373272	120.006655
GRIN3A	22.01284833	3128.446031	265.5702828
MT-ND5	13204.40707	37667.486	406.6892197
OR7E103P	1.100642416	0	0
MUC2	35.22055732	8.298265334	21.1122819
CNOT7	778.1541883	1603.224862	440.0244016
TMEM184	810.0728184	477.1502567	641.146666
MTOR	1737.914375	3637.959522	3123.506548
SCAMP5	37.42184215	143.5599903	40.00221833
ZNF521	183.8072835	220.7338579	145.5636278
ALPK2	23.11349074	15.76670413	80.00443666
BRINP2	3.301927249	30.70358173	8.889381852
LRIG2	1055.516077	718.6297779	1047.835886
MT-CO1	8729.195004	32755.74275	624.4790751
PNP	20.91220591	17.4263572	5.555863657
PAX9	191.5117804	950.1513807	85.56030032
LRRC10	0	0.829826533	4.444690926
GK	107.8629568	150.1986025	72.22622754

FOXJ3	5152.107151	2609.804447	2179.009726
ZNF358	234.4368347	304.5463377	567.8092658
SFT2D1	129.8758051	139.4108576	211.122819
CD247	53.9314784	5.808785734	27.77931829
GRM3	2.201284833	6.638612267	195.5664007
CHAMP1	1155.674537	1035.623514	694.4829571
INPP5F	495.2890873	1386.640137	453.3584744
SUCNR1	8.80513933	9.9579184	5420.300584
HMGN2	316.9850159	999.9409727	350.0194104
SELENOM	408.3383364	59.7475104	583.365684
UBE2J1	837.5888788	611.5821551	490.0271746
GJC2	57.23340565	20.74566333	37.77987287
OPA1	1374.702378	2491.96908	1241.179941
DENND4B	771.5503338	695.394635	1343.407832
RYR3	53.9314784	39.00184707	94.44968217
ZNF277	486.483948	214.0952456	227.7904099
MT-ND3	1890.903671	5251.142303	56.6698093
KTI12	3.301927249	6.638612267	3.333518194
STYXL2	22.01284833	3.319306133	18.88993643
SELENOT	1097.340489	710.3315126	1277.848641
ARHGEF1	29.71734524	58.91768387	68.89270935
TOX	202.5182046	4.149132667	32.22400921
CES1	25.31477557	0.829826533	6.667036389
CD3E	146.3854414	1.659653067	1.111172731
RUSC2	651.5803104	444.7870219	770.0427029
C1orf68	1.100642416	0	3.333518194
FICD	108.9635992	148.5389495	57.78098203
OSTC	280.6638162	546.8556855	414.4674288
HSD3BP5	2.201284833	0	0
R3HDM4	117.7687385	266.3743172	416.6897743
TSEN15	134.2783748	297.0778989	66.67036389
LTN1	1.100642416	0.829826533	1.111172731
RUNDC1	505.1948691	373.42194	372.242865
CCDC152	15.40899383	7.4684388	17.7787637
GRK5	265.2548223	343.5481848	166.6759097
TYW1	1008.188453	510.343318	632.2572842
DCAF12	286.1670282	781.6965944	595.5885841
SFMBT2	442.4582514	98.74935747	674.481848
ASB12	5.503212081	0	8.889381852
ITPRIPL1	35.22055732	9.9579184	21.1122819
MT-ND4	16911.37073	60550.78249	728.9293118
SMC5	1844.67669	2335.131865	893.3828761
MT-ND1	9338.950902	41120.39421	730.0404846
DCAF12L1	0	165.9653067	12.22290005

PRMT6	151.8886534	457.2344199	505.5835928
SHISA4	112.2655265	141.0705107	318.9065739
CIPC	633.9700318	386.6991645	428.9126743
CAPZA2	707.7130737	699.5437676	463.359029
MT-ATP6	6394.732439	19983.88258	310.0171921
TOP1	2087.918664	1860.471088	933.3850944
PRC1	5.503212081	18.25618373	7.77820912
MAP3K3	532.7109295	370.1026339	512.2506292
L1CAM	36.32119974	708.6718595	30.00166375
SREBF2	1409.922935	1002.430452	2309.016936
C1orf174	255.3490406	239.8198681	424.4679834
POU3F3	3.301927249	1.659653067	15.55641824
RASGEF1A	42.92505424	78.83352067	21.1122819
RPL39	368.7152095	551.0048182	360.019965
DZIP3	762.7451945	668.8401859	917.8286762
KIAA0753	979.5717505	1025.665595	900.0499125
DCLRE1A	783.6574004	2551.71659	700.0388208
ATG9A	338.9978642	302.0568581	618.9232114
NOS1AP	161.7944352	92.1107452	200.0110917
CSAG1	1.100642416	1.659653067	0
APRT	104.5610295	120.3248473	351.1305831
GPRASP1	1138.064258	321.9726949	360.019965
TBKBP1	99.05781747	42.3211532	154.4530097
MAGEE1	64.93790256	204.1373272	197.7887462
CCDC167	42.92505424	92.94057174	60.0033275
MT-CO3	4423.481871	20759.77039	352.2417559
ZFP2	55.03212081	62.23699	43.33573653
SOWAHA	6.603854498	19.9158368	28.89049102
L3MBTL3	369.8158519	148.5389495	157.7865279
DMD	3601.301986	215.7548987	3209.066848
MFAP3L	74.84368431	92.1107452	218.9010281
NAGA	329.0920825	349.3569705	356.6864468
SMG5	1072.025713	1550.115964	2481.248709
KIFBP	550.3212081	877.1266458	510.0282837
TGM2	4930.878025	153.5179087	2824.601083
ARMCX6	78.14561156	67.2159492	73.33740027
PJA2	3650.830895	2867.050673	2771.264792
RORB	609.7558986	43.15097974	576.6986476
SGMS1	486.483948	250.6076131	670.0371571
OR10R2	9.905781747	2.4894796	7.77820912
OR10Z1	3.301927249	0.829826533	14.44524551
MIRLET7I	1.100642416	0	0
MIR375	1.100642416	0	0
MIR30E	1.100642416	0.829826533	0

MIR429	2.201284833	0	0
MIR345	0	0.829826533	0
MIR340	1.100642416	1.659653067	0
MIR324	0	3.319306133	0
MIR365A	0	2.4894796	0
MIR374A	0	0	1.111172731
Y_RNA	0	0.829826533	0
RN7SKP1	1.100642416	0	0
RNU6-50P	0	0.829826533	0
RNU6-834	1.100642416	0	0
RNA5SP4	0	1.659653067	0
RNU6-28P	1.100642416	0	0
RNU1-58P	0	0.829826533	0
RNU6-858	0	0.829826533	0
RNU4-82P	3.301927249	0	0
RN7SKP2	1.100642416	0.829826533	0
RNA5SP1	0	0.829826533	0
RNU4-39P	0	0.829826533	0
Y_RNA.1	2.201284833	2.4894796	0
Y_RNA.2	3.301927249	0	0
RNA5SP4	0	0.829826533	0
Y_RNA.3	0	4.149132667	0
RNU5F-1	1.100642416	6.638612267	0
SNORD62	2.201284833	0	0
VTRNA3-	0	0.829826533	0
RNU1-108	0	3.319306133	0
SNORD9	0	1.659653067	0
Y_RNA.4	0	0.829826533	0
Y_RNA.5	0	9.128091867	0
Y_RNA.6	0	0.829826533	0
RNU4-15P	0	0.829826533	0
RNU6-131	1.100642416	0	0
RNA5SP2	0	0.829826533	0
RNA5SP2	0	1.659653067	0
RNA5SP1	0	4.149132667	0
RNU6-37P	0	0.829826533	0
RNU5A-1	1.100642416	25.72462253	0
RNA5SP1	2.201284833	0	0
Y_RNA.7	1.100642416	0	0
RNU6-127	0	0.829826533	0
Y_RNA.8	0	0.829826533	0
RNU4-21P	1.100642416	2.4894796	0
RNU6-862	0	1.659653067	0
Y_RNA.9	0	0.829826533	0

RN7SKP9	3.301927249	1.659653067	0
RNU6-107	1.100642416	0	0
RNA5SP3	2.201284833	0	0
RNU6-227	0	0.829826533	0
SNORD10	3.301927249	4.149132667	0
Y_RNA.10	0	1.659653067	0
RNU1-76P	0	0	1.111172731
Y_RNA.11	1.100642416	0.829826533	0
RNA5SP18	1.100642416	4.9789592	1.111172731
RNU1-134	0	0.829826533	0
RNA5SP15	0	0.829826533	0
RNA5SP35	0	0.829826533	0
RNA5SP37	0	0.829826533	0
RNU1-72P	0	0.829826533	0
RNU6-490	0	0.829826533	0
U3	0	1.659653067	0
RNU6-112	0	0.829826533	0
RNU6-942	2.201284833	1.659653067	0
Y_RNA.12	1.100642416	0	0
RN7SKP14	0	1.659653067	0
RNVU1-22	0	2.4894796	1.111172731
RNU6-888	1.100642416	0	0
Y_RNA.13	1.100642416	0.829826533	0
RNU6-249	1.100642416	0	0
Y_RNA.14	0	0.829826533	0
SNORD11	0	0.829826533	0
RNY1P16	1.100642416	0.829826533	0
ENSG0000	0	3.319306133	0
SNORD1B	0	0	1.111172731
Y_RNA.15	0	0.829826533	0
SNORA73	1.100642416	4.149132667	0
RNA5SP14	1.100642416	7.4684388	0
ENSG0000	0	2.4894796	0
ENSG0000	0	2.4894796	0
RNU6-433	1.100642416	4.149132667	0
SNORA73	212.4239863	419.8922259	65.55919115
RNU6-181	1.100642416	0	0
RNU6-251	1.100642416	3.319306133	0
Y_RNA.16	1.100642416	0	0
Y_RNA.17	1.100642416	0.829826533	0
Y_RNA.18	1.100642416	0	0
RNU6-778	1.100642416	0	0
RNU5B-1	5.503212081	51.44924507	4.444690926
Y_RNA.19	0	0.829826533	0

RNU5D-1	1.100642416	13.27722453	0
Y_RNA.20	7.704496914	2.4894796	0
RNU6-130	1.100642416	0	0
ENSG0000	1.100642416	0	0
Y_RNA.21	0	1.659653067	0
RNU6-697	0	1.659653067	0
SNORA70	1.100642416	0	0
RNA5SP26	0	2.4894796	0
RNU6-529	1.100642416	0	0
RNU6-536	1.100642416	0	0
RNA5SP35	0	1.659653067	0
RNA5SP39	0	1.659653067	0
RNU6-940	0	0.829826533	0
RNU6-125	0	0.829826533	0
RN7SKP25	7.704496914	12.447398	3.333518194
RNU5E-8P	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
SNORA38	0	4.9789592	2.222345463
Y_RNA.22	1.100642416	1.659653067	0
RNU6-109	5.503212081	4.9789592	0
Y_RNA.23	0	1.659653067	1.111172731
Y_RNA.24	0	0.829826533	0
Y_RNA.25	1.100642416	0.829826533	0
RNA5SP32	0	1.659653067	0
RN7SKP20	51.73019357	64.7264696	18.88993643
RNU6-120	1.100642416	0	0
Y_RNA.26	1.100642416	10.78774493	1.111172731
RNU6-121	0	0.829826533	0
RNU6-120	0	2.4894796	0
SNORA33	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
RNU6-137	0	4.9789592	0
RNA5SP42	0	1.659653067	0
RNU6-640	0	1.659653067	0
RNU6-128	1.100642416	4.149132667	0
RNU6-414	4.402569665	1.659653067	0
RNVU1-33	0	2.4894796	1.111172731
Y_RNA.27	0	4.149132667	0
SNORD11	0	0.829826533	0
SNORD11	0	0	1.111172731
RNA5SP33	0	1.659653067	0
ENSG0000	0	1.659653067	0
RN7SKP93	0	0.829826533	0
RN7SKP10	0	0.829826533	0

RNU1-124	2.201284833	0.829826533	1.111172731
RNA5SP16	1.100642416	12.447398	0
Y_RNA.28	1.100642416	3.319306133	0
ENSG0000	2.201284833	0	0
RNA5SP68	1.100642416	0	0
RN7SKP18	0	0.829826533	0
RNA5SP23	0	0.829826533	0
Y_RNA.29	0	0.829826533	0
SNORA80	0	4.9789592	0
RNU4-1	14.30835141	77.1738676	3.333518194
SNORD11	0	0.829826533	0
RNU6-324	0	0.829826533	0
Y_RNA.30	0	2.4894796	0
RNU6-82P	2.201284833	0	0
Y_RNA.31	0	0	1.111172731
SNORD14	0	1.659653067	0
RNU6-681	5.503212081	3.319306133	0
RNU1-146	0	1.659653067	0
Y_RNA.32	2.201284833	1.659653067	0
ENSG0000	0	1.659653067	0
SNORD46	1.100642416	1.659653067	12.22290005
RNA5SP43	1.100642416	1.659653067	0
Y_RNA.33	1.100642416	3.319306133	0
RNU6-694	1.100642416	0	0
RNU6-501	1.100642416	0.829826533	0
Y_RNA.34	1.100642416	0	1.111172731
SNORA74	7.704496914	35.68254093	10.00055458
RNVU1-34	0	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
Y_RNA.35	0	0.829826533	0
RNA5SP23	0	1.659653067	0
RNA5SP24	0	4.149132667	0
RNU6-268	2.201284833	0	0
Y_RNA.36	2.201284833	0.829826533	0
RNU6-668	1.100642416	0	0
RNU4-51P	1.100642416	0	0
RNY1	34.11991491	21.57548987	6.667036389
RNA5SP24	0	0.829826533	0
RNY1P12	0	0.829826533	0
SNORA58	0	1.659653067	1.111172731
RNU6-353	0	0.829826533	0
ENSG0000	0	1.659653067	0
RNA5SP36	1.100642416	0.829826533	0

Y_RNA.37	1.100642416	0.829826533	0
RNU6-115	0	0.829826533	0
RNVU1-3	0	1.659653067	0
RNA5SP2(	3.301927249	259.7357049	50.00277291
RN7SKP11	0	0.829826533	0
Y_RNA.38	2.201284833	1.659653067	0
SNORD42	1.100642416	0	0
RNA5SP13	2.201284833	0	0
Y_RNA.39	0	2.4894796	0
RNU4-40P	1.100642416	1.659653067	0
RNU6-130	0	2.4894796	0
SNORA63I	0	1.659653067	1.111172731
SNORA65	8.80513933	4.149132667	0
RN7SKP22	0	1.659653067	0
RNA5S9	2.201284833	54.7685512	8.889381852
SNORD11	0	0	1.111172731
RNU4-38P	0	0.829826533	1.111172731
Y_RNA.40	3.301927249	8.298265334	0
RNA5SP69	0	0.829826533	0
RNU105B	2.201284833	0	0
Y_RNA.41	1.100642416	0	0
RNU6-522	1.100642416	1.659653067	0
RNU6-125	2.201284833	0.829826533	0
SNORA70.	4.402569665	0.829826533	0
RNA5SP14	0	0.829826533	0
ENSG0000	0	0.829826533	0
RNA5SP14	0	29.04392867	1.111172731
Y_RNA.42	0	0.829826533	0
RN7SKP71	5.503212081	3.319306133	0
Y_RNA.43	1.100642416	0	0
SNORA63(	0	0.829826533	3.333518194
Y_RNA.44	0	19.08601027	0
RNY4P7	1.100642416	3.319306133	0
Y_RNA.45	0	3.319306133	0
ENSG0000	0	3.319306133	0
RNA5SP51	1.100642416	0	0
SNORA16I	0	1.659653067	0
SNORD114	1.100642416	0	0
RN7SKP5(	3.301927249	0.829826533	0
RN7SKP78	0	1.659653067	0
RNU6-593	0	0.829826533	0
ENSG0000	3.301927249	10.78774493	0
RNU4-16P	0	0.829826533	0
RNU4-42P	0	0	1.111172731

RNA5SP84	0	2.4894796	0
SNORA14	0	4.149132667	0
RNU6-7	0	0.829826533	0
RNU6-60P	1.100642416	0.829826533	0
Y_RNA.46	0	0	1.111172731
RNA5SP90	0	0.829826533	0
SNORD11	2.201284833	1.659653067	0
RNU6-818	0	0	1.111172731
ENSG0000	0	0.829826533	0
RNU6-828	0	2.4894796	0
Y_RNA.47	0	0.829826533	0
RN7SKP55	0	0.829826533	0
SNORA5C	1.100642416	8.298265334	0
Y_RNA.48	0	0.829826533	0
RNA5SP18	1.100642416	0.829826533	0
RN7SKP9	0	4.149132667	1.111172731
RNU5E-4P	0	0.829826533	0
RNA5SP14	0	12.447398	0
SNORD11	0	1.659653067	0
RNA5SP16	0	0.829826533	0
RNU1-43P	0	1.659653067	0
RNA5SP36	3.301927249	1.659653067	0
SNORA72	0	3.319306133	0
SNORD11	1.100642416	0	0
RN7SKP22	0	0.829826533	0
SNORA62	4.402569665	0	0
Y_RNA.49	1.100642416	0.829826533	0
SNORA23	13.207709	44.8106328	5.555863657
RNA5SP42	0	3.319306133	0
RNU6-619	1.100642416	0	0
RNU6-934	0	0.829826533	0
RNU6-391	1.100642416	0	0
RN7SKP80	0	3.319306133	1.111172731
Y_RNA.50	3.301927249	0	0
Y_RNA.51	2.201284833	4.149132667	0
RNU6-290	0	0.829826533	0
VTRNA1-2	0	3.319306133	0
RNU6-302	0	1.659653067	0
RNU1-100	1.100642416	1.659653067	1.111172731
Y_RNA.52	0	0.829826533	0
Y_RNA.53	0	0.829826533	0
RNA5SP32	1.100642416	0	0
Y_RNA.54	0	0.829826533	0
RNU6-132	0	2.4894796	0

RNU6-128	0	0.829826533	0
RNA5SP35	1.100642416	0.829826533	0
SNORA30	0	0.829826533	0
SNORD11	0	1.659653067	0
Y_RNA.55	0	9.128091867	0
Y_RNA.56	2.201284833	0	0
Y_RNA.57	0	1.659653067	0
RNY3P12	0	0.829826533	0
Y_RNA.58	2.201284833	0	0
Y_RNA.59	0	0.829826533	0
RNU6-8	0	4.149132667	0
RNU6-105	1.100642416	0.829826533	0
RNU6-652	0	7.4684388	0
RN7SKP24	0	0.829826533	0
Y_RNA.60	0	2.4894796	0
RNU1-55P	0	1.659653067	0
RNA5SP27	1.100642416	0	0
RN7SKP29	0	0.829826533	2.222345463
RNA5SP25	0	0.829826533	0
RNY3P13	0	0.829826533	0
Y_RNA.61	2.201284833	0	0
RN7SKP26	0	4.149132667	0
RNA5SP88	0	0.829826533	0
ENSG0000	2.201284833	0	0
RNU6-669	0	0.829826533	0
Y_RNA.62	0	1.659653067	0
Y_RNA.63	2.201284833	1.659653067	0
RNA5SP24	0	1.659653067	0
RNA5SP15	1.100642416	0	0
Y_RNA.64	0	0.829826533	0
VTRNA1-3	2.201284833	15.76670413	0
Y_RNA.65	0	2.4894796	0
Y_RNA.66	1.100642416	1.659653067	2.222345463
RNU4-2	64.93790256	166.7951332	48.89160018
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	6.638612267	0
Metazoa_S	1.100642416	1.659653067	2.222345463
TDRKH-A	2.201284833	0.829826533	0
FAM78B-A	0	0.829826533	0
ENSG0000	1.100642416	0	0
ZNF525	235.5374771	289.6094601	172.2317734
ENSG0000	13.207709	6.638612267	1.111172731
ENSG0000	1.100642416	0.829826533	0
LINC0156	0	0.829826533	0

SNF8P1	3.301927249	2.4894796	3.333518194
ENSG0000	6.603854498	4.9789592	1.111172731
ENSG0000	1.100642416	0	0
BTBD7P1	7.704496914	0	11.11172731
FAM32BP	1.100642416	0.829826533	0
E2F3P2	6.603854498	0.829826533	2.222345463
INF2	632.8693894	780.8667679	1170.064886
HMGB1P3	0	0.829826533	0
PDCD4-AS	1.100642416	4.9789592	1.111172731
IQANK1	2.201284833	1.659653067	1.111172731
ENSG0000	3.301927249	2.4894796	0
OR1F2P	2.201284833	0	5.555863657
LINC02408	2.201284833	1.659653067	0
LINC00970	1.100642416	1.659653067	0
RHOT1P2	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	35.22055732	6.638612267	0
ENSG0000	12.10706658	30.70358173	0
LINC00501	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
LINC01285	0	1.659653067	0
OR2L2	4.402569665	3.319306133	23.33462736
EFCAB2	200.3169198	248.94796	60.0033275
COX20	563.5289171	618.2207674	351.1305831
CHML	226.7323378	851.4020232	166.6759097
IBA57-DT	2.201284833	6.638612267	0
STUM	17.61027866	149.368776	4.444690926
LINC02487	0	3.319306133	0
CAPN8	55.03212081	12.447398	75.55974574
TATDN3	204.7194894	151.0284291	81.11560939
MIR29B2C	138.6809445	47.3001124	16.66759097
CR1	252.0471133	127.7932861	254.4585555
LINC02901	0	21.57548987	4.444690926
LINC00862	6.603854498	5.808785734	0
RAET1G	15.40899383	14.10705107	13.33407278
C1orf53	9.905781747	16.59653067	45.55808199
SAMD5	227.8329802	13.27722453	415.5786016
LINC00272	0	0.829826533	0
TEDDM1	0	1.659653067	5.555863657
GJE1	3.301927249	0	0
ECT2L	20.91220591	19.08601027	27.77931829
GPR52	121.0706658	355.9955828	285.571392
PRDX6-AS	13.207709	14.10705107	3.333518194
NTMT2	1.100642416	0	0

FCGR3A	308.1798766	195.0092353	36.66870014
TMEM244	1.100642416	0.829826533	0
OR6K3	3.301927249	0	4.444690926
CENPW	13.207709	114.5160616	0
MSTO2P	16.50963624	6.638612267	24.44580009
SPRN	1.100642416	0	0
FAM229B	38.52248457	66.38612267	33.33518194
FANK1	170.5995745	158.4968679	356.6864468
LORICRIN	3.301927249	2.4894796	1.111172731
KPRP	4.402569665	0.829826533	31.11283648
EEF1AKM	34.11991491	44.8106328	8.889381852
FAM24A	0	1.659653067	14.44524551
DDO	13.207709	16.59653067	6.667036389
CCDC162I	33.01927249	14.9368776	85.56030032
LINC0022	1.100642416	2.4894796	0
ADAMTSI	18.71092108	24.894796	0
PLPP4	42.92505424	101.2388371	551.1416748
BVES-AS1	7.704496914	27.3842756	1.111172731
LIN28B-AS	1.100642416	0	0
H3C14	1.100642416	14.9368776	3.333518194
H2BC18	795.764467	2492.798906	266.6814555
ENSG0000	2.201284833	2.4894796	3.333518194
PNLIPRP3	4.402569665	2.4894796	4.444690926
H3C15	1.100642416	11.61757147	1.111172731
HSD3BP4	0	0.829826533	0
HSD3B1	1.100642416	1.659653067	24.44580009
HSD3BP2	1.100642416	0.829826533	4.444690926
HSD3B2	8.80513933	5.808785734	4.444690926
ATP1A1-A	159.5931504	104.5581432	61.11450023
RBM20	22.01284833	26.55444907	53.33629111
C6orf163	85.85010847	34.02288787	17.7787637
SNHG5	25.31477557	20.74566333	6.667036389
ADD3-AS1	3.301927249	1.659653067	0
RIPPLY2	2.201284833	0	0
GDI1	1578.321225	2726.809989	2505.694509
PCMTD2	24.21413316	30.70358173	27.77931829
SOX18	42.92505424	49.789592	38.8910456
LIME1	2.201284833	3.319306133	0
SPATA42	0	0.829826533	0
ENSG0000	0	0.829826533	0
OOEP	0	0.829826533	0
KHDC3L	0	0.829826533	0
C1orf146	5.503212081	0	0
HSP90B3P	3.301927249	0.829826533	3.333518194

LINC0063	2681.164926	1199.099341	68.89270935
CXorf66	8.80513933	2.4894796	0
C10orf62	1.100642416	1.659653067	1.111172731
SAMD13	13.207709	285.4603275	42.22456379
RTL8A	495.2890873	849.7423702	552.2528475
CCDC160	61.63597531	11.61757147	21.1122819
C1orf141	3.301927249	0.829826533	0
EFCAB7	190.411138	385.869338	97.78320037
DEFB110	1.100642416	0	0
ENSG0000	0	0.829826533	0
GLYATL3	123.2719506	6.638612267	22.22345463
LDLRAD1	13.207709	8.298265334	1.111172731
ENSG0000	0	0.829826533	0
RHOXF2B	1.100642416	1.659653067	0
ARRDC1-A	16.50963624	32.3632348	12.22290005
ZYG11A	368.7152095	195.0092353	207.7893008
LINC0127(	5.503212081	1.659653067	0
LCN8	2.201284833	0.829826533	0
C1orf185	9.905781747	0.829826533	4.444690926
GLT6D1	0	0	8.889381852
IFIT1B	1.100642416	4.9789592	0
COL5A1-A	0	0.829826533	0
CT83	0	0	2.222345463
LIPN	0	8.298265334	0
LIPK	6.603854498	0	0
LIPJ	4.402569665	0	0
TRPC5OS	1.100642416	0.829826533	0
LRIT2	6.603854498	1.659653067	2.222345463
SLC12A5-A	5.503212081	4.149132667	5.555863657
LRRC73	26.41541799	15.76670413	35.55752741
MYCLP1	0	1.659653067	0
LINC0096	100.1584599	71.36508187	20.00110917
IER5L-AS1	3.301927249	2.4894796	0
FOXO6	5.503212081	2.4894796	4.444690926
TCEAL5	28.61670282	1.659653067	5.555863657
SYS1	106.7623144	93.77039827	195.5664007
INPP5B	435.8543969	451.4256342	543.3634657
RPA4	7.704496914	5.808785734	10.00055458
NEU4	0	0	13.33407278
MAFB	465.5717421	278.8217152	254.4585555
TRAF3IP1	471.0749542	487.1081751	257.7920737
BMP2KL	0	0	6.667036389
CHIC1	135.3790172	94.6002248	125.5625187
GIGYF2	2950.822318	1979.136282	2053.447208

C2orf72	72.64239948	13.27722453	16.66759097
RUFY2	643.8758135	624.0295531	592.2550659
NHSL2	443.5588938	248.94796	500.0277291
GGTA1	5.503212081	5.808785734	1.111172731
PHACTR4	1628.950776	1550.945791	721.1511027
CLPSL1	8.80513933	3.319306133	4.444690926
ASAH2B	28.61670282	39.00184707	54.44746384
AGAP6	20.91220591	8.298265334	1.111172731
TIMM23B	1.100642416	4.149132667	0
ZDHHC18	234.4368347	316.1639092	356.6864468
TMEM273	71.54175706	13.27722453	16.66759097
AGAP9	274.0599617	52.2790716	190.0105371
LRRC37A3	0	0.829826533	0
NPY4R	2.201284833	0.829826533	0
GPRIN2	7.704496914	34.02288787	1.111172731
SYT15	7.704496914	8.298265334	0
BMS1P1	0	0.829826533	0
MACO1	938.8479811	1371.70326	994.4995946
PTPN20	25.31477557	4.149132667	12.22290005
GDF5-AS1	2.201284833	0.829826533	0
ZDBF2	12.10706658	39.8316736	15.55641824
TXNDC8	1.100642416	1.659653067	3.333518194
AWAT1	2.201284833	1.659653067	21.1122819
DAXX	0	0.829826533	14.44524551
BMPR2	4798.800935	2603.995662	2207.900217
TCEA3	1.100642416	0.829826533	1.111172731
RXRB	0	0	2.222345463
OXLD1	42.92505424	48.95976547	146.6748005
LINC02731	0	1.659653067	0
OR13C3	3.301927249	9.9579184	24.44580009
HNRNPCP	41.82441182	67.2159492	63.33684569
BRD2	71.54175706	43.15097974	100.0055458
HLA-DMA	11.00642416	5.808785734	0
COL5A2	2062.603888	2696.106407	3200.177467
TAP2	0	2.4894796	0
SPIN3	152.9892959	129.4529392	122.2290005
NBDY	178.3040714	380.0605523	235.5686191
LINC01993	0	0.829826533	0
TMEM235	3.301927249	1.659653067	3.333518194
PAGE3	1.100642416	1.659653067	1.111172731
LINC01973	1.100642416	4.9789592	0
HLA-DRA	12.10706658	0.829826533	0
COL15A1	3061.987202	64.7264696	182.232328
TMEM225	5.503212081	1.659653067	10.00055458

NOTCH4	14.30835141	9.9579184	0
PBX2	15.40899383	67.2159492	16.66759097
AGER	12.10706658	1.659653067	6.667036389
AGPAT1	37.42184215	7.4684388	3.333518194
PJVK	47.3276239	24.894796	31.11283648
MRPL38	1.100642416	6.638612267	1.111172731
SMIM5	2.201284833	0	1.111172731
ERICH2	35.22055732	36.51236747	83.33795486
SP5	29.71734524	63.89664307	365.5758286
STK19	0	0.829826533	1.111172731
BTBD17	3.301927249	916.1284928	4.444690926
SKIC2	5.503212081	9.128091867	24.44580009
NELFE	3.301927249	4.149132667	12.22290005
NXPE2	26.41541799	10.78774493	21.1122819
SPANXN5	3.301927249	0	0
ENSG0000	0	1.659653067	0
SDHD	161.7944352	180.9021843	251.1250373
XAGE1A	9.905781747	0	0
PKP4-AS1	3.301927249	0.829826533	14.44524551
LAYN	217.9271984	43.15097974	5.555863657
XAGE1B	14.30835141	0	0
HSPA1B	1.100642416	0	1.111172731
HSPA1A	5.503212081	0	0
VARS1	40.7237694	0	8.889381852
VWA7	0	0	1.111172731
CARD16	144.1841565	66.38612267	61.11450023
ENSG0000	0	0.829826533	0
CASP12	1.100642416	0.829826533	0
MBD5	1225.015009	536.0679406	665.5924661
CSHL1	3.301927249	1.659653067	46.66925472
POTEKP	25.31477557	3.319306133	2.222345463
CSNK2B	1.100642416	2.4894796	0
C6orf47	0	0.829826533	0
NALF1	26.41541799	3.319306133	11.11172731
LINC0287	2.201284833	0.829826533	0
TRIM49C	1.100642416	0	22.22345463
TRIM64	3.301927249	0.829826533	0
TRIM51BI	3.301927249	0.829826533	5.555863657
ENSG0000	2.201284833	0	1.111172731
LINC0185	0	18.25618373	0
BAG6	12.10706658	10.78774493	11.11172731
TMEM51-	0	2.4894796	8.889381852
PRRC2A	52.83083598	71.36508187	108.8949277
PRAMEF2	0	0.829826533	28.89049102

PRAMEF1	0	9.128091867	11.11172731
PRAMEF1	1.100642416	3.319306133	0
PRAMEF1	9.905781747	4.149132667	23.33462736
NFKBIL1	0	0.829826533	0
PRAMEF1	4.402569665	5.808785734	53.33629111
ZNF814	414.9421909	416.5729197	333.3518194
AADACL4	0	2.4894796	1.111172731
ZNF551	255.3490406	613.2418082	158.8977006
MICA	14.30835141	1.659653067	2.222345463
ZNF805	334.5952946	407.4448279	600.033275
HLA-C	911.3319207	450.5958076	1495.638497
POU5F1	1.100642416	0.829826533	5.555863657
ZSCAN5C	0	0	20.00110917
CCHCR1	30.81798766	65.55629614	52.22511838
PSORS1C2	0	1.659653067	0
CDSN	0	0.829826533	0
PSORS1C1	5.503212081	0.829826533	6.667036389
MUC21	0	1.659653067	0
DEFB121	1.100642416	0	6.667036389
ENSG0000	0	0.829826533	0
DHX16	3.301927249	2.4894796	3.333518194
KRTAP5-1	3.301927249	1.659653067	0
KRTAP5-1	3.301927249	4.149132667	22.22345463
ABCF1	0	0.829826533	0
LILRB3	11.00642416	18.25618373	24.44580009
DDR1	1.100642416	0	0
ACOXL-A	1.100642416	10.78774493	2.222345463
LRCOL1	1.100642416	0	0
ENSG0000	29.71734524	40.66150013	67.78153662
LINC0112	6.603854498	3.319306133	0
HLA-E	0	0.829826533	0
DPRX	4.402569665	0.829826533	15.55641824
LINC0125	0	0.829826533	0
ZNF468	432.5524696	665.5208798	342.2412013
ZNF616	609.7558986	480.4695628	448.9137835
FOXB2	8.80513933	11.61757147	83.33795486
PPP1R11	2.201284833	3.319306133	8.889381852
POLR1HA	1.100642416	0	0
DISP3	36.32119974	129.4529392	122.2290005
RACK1	7641.760296	8206.984415	8824.933833
TBC1D8	1391.212014	1720.230404	2279.015272
NMS	6.603854498	0	2.222345463
HLA-F	1.100642416	0	0
LINC0221(	0	0.829826533	0

ASPDH	2.201284833	6.638612267	14.44524551
CBY3	0	0.829826533	0
C5orf60	0	1.659653067	0
C9orf57	1.100642416	0	8.889381852
IL31	5.503212081	0	0
AKT1S1	193.7130653	281.3111948	383.3545923
FAM153CI	116.6680961	55.59837774	41.11339106
GABBR1	0	18.25618373	2.222345463
MIR1915H	6.603854498	21.57548987	0
STARD7-A	6.603854498	9.9579184	4.444690926
MAMDC2-	0	4.149132667	0
SPDYC	1.100642416	0	8.889381852
CFAP95	2.201284833	0.829826533	4.444690926
MALRD1	30.81798766	19.08601027	62.22567296
ENSG0000	49.52890873	42.3211532	26.66814555
LINC0195	0	0.829826533	0
RPL26L1-A	0	3.319306133	0
RANBP17	337.8972218	578.3890938	271.1261465
INSYN2B	8.80513933	10.78774493	20.00110917
IGKV1OR-	0	0	12.22290005
ZNG1DP	35.22055732	36.51236747	28.89049102
FOXD4L5	0	1.659653067	2.222345463
ENSG0000	13.207709	4.149132667	3.333518194
SMPD5	0	2.4894796	1.111172731
LINC0129	0	0.829826533	0
FAM88C	1.100642416	0	0
ODAD4	73.74304189	73.02473494	43.33573653
FGF7P5	0	0.829826533	0
ST8SIA6-A	7.704496914	0.829826533	1.111172731
MROH6	3.301927249	4.9789592	0
ATXN2	5015.627491	3836.288064	2824.601083
DCTN1	1265.738779	837.2949722	1161.175504
SPATA31A	2.201284833	8.298265334	46.66925472
ENSG0000	4.402569665	2.4894796	13.33407278
PNMA8B	33.01927249	6.638612267	51.11394565
TCTN1	692.3040799	520.3012364	1265.625741
FAM216A	58.33404806	54.7685512	15.55641824
ZBTB48	121.0706658	177.5828781	387.7992833
FAM201A	0	5.808785734	0
IGFL2	4.402569665	2.4894796	11.11172731
IGFL4	0	4.9789592	16.66759097
ENSG0000	1.100642416	0	4.444690926
KRT25	5.503212081	4.149132667	12.22290005
MZT1	24.21413316	129.4529392	10.00055458

LINC0154	0	0.829826533	0
SPINK9	2.201284833	0	1.111172731
LRRC3C	4.402569665	4.149132667	5.555863657
PRR20B	1.100642416	0.829826533	0
PRR20A	1.100642416	0	0
ZNF155	282.865101	365.1236747	113.3396186
UQCC3	97.95717505	103.7283167	153.3418369
FBXO48	58.33404806	82.98265334	30.00166375
GRXCR2	3.301927249	0	5.555863657
LINC0293	2.201284833	4.9789592	1.111172731
FAM221B	3.301927249	4.9789592	6.667036389
CD177P1	0	1.659653067	4.444690926
ATP6V0E2	8.80513933	4.9789592	0
CD177	16.50963624	43.98080627	660.0366025
PSG5	7.704496914	1.659653067	0
ZNF783	366.5139246	78.00369414	266.6814555
ZNF425	135.3790172	88.79143907	76.67091847
FAM83A-A	4.402569665	5.808785734	11.11172731
LRRC10B	3.301927249	45.64045934	15.55641824
FBXO47	3.301927249	3.319306133	26.66814555
UQCC6	74.84368431	94.6002248	57.78098203
PCDHGA1	14.30835141	114.5160616	91.11616398
ARHGEF3	38.52248457	0	0
BLACE	0	0.829826533	0
PCDHA9	1.100642416	0.829826533	30.00166375
PCDHA8	2.201284833	1.659653067	1.111172731
PCDHA7	4.402569665	0.829826533	1.111172731
PCDHA5	0	0.829826533	0
PCDHA4	2.201284833	4.149132667	1.111172731
PCDHA2	1.100642416	0.829826533	1.111172731
PCDHA1	1.100642416	3.319306133	0
TRIM13	265.2548223	400.8062156	330.0183012
ERICH4	0	3.319306133	2.222345463
MS4A13	4.402569665	2.4894796	11.11172731
PRSS1	1.100642416	0	8.889381852
OR4D8P	0	0	1.111172731
SPIRE2	61.63597531	164.3056536	126.6736914
CRTC1P1	2.201284833	4.149132667	0
AARD	3.301927249	15.76670413	2.222345463
LINC0213	0	0	1.111172731
ENSG0000	2.201284833	1.659653067	52.22511838
PABPN1L	2.201284833	2.4894796	0
OR5D16	2.201284833	0.829826533	4.444690926
OR5L2	1.100642416	4.149132667	13.33407278

PKHD1L1	117.7687385	773.3983291	158.8977006
ENSG0000	8.80513933	25.72462253	2.222345463
ENSG0000	0	0	1.111172731
SLFN12L	129.8758051	9.9579184	57.78098203
LINC0112	0	1.659653067	1.111172731
LINC0239	2.201284833	0.829826533	0
CLLU1-AS	3.301927249	2.4894796	0
SLC35B4	175.0021442	102.8984901	133.3407278
SYCE1L	53.9314784	27.3842756	16.66759097
TMEM231	24.21413316	27.3842756	30.00166375
GARIN1A	75.94432672	22.4053164	70.00388208
LINC0289	1.100642416	0.829826533	0
CCNI2	5.503212081	1.659653067	0
TMEM240	14.30835141	15.76670413	21.1122819
COX17P1	0	0.829826533	1.111172731
LINC0271	0	0.829826533	0
FAM205A	5.503212081	4.9789592	20.00110917
CDKL4	11.00642416	7.4684388	40.00221833
TMEM88E	0	3.319306133	5.555863657
ACCSL	5.503212081	8.298265334	5.555863657
C4orf47	37.42184215	45.64045934	7.77820912
TRIQK	176.1027866	305.3761643	115.5619641
SDHAF1	14.30835141	32.3632348	34.44635467
ARID3C	3.301927249	6.638612267	11.11172731
PSENEN	7.704496914	32.3632348	45.55808199
LINC0290	2.201284833	0	0
REXO1L1	0	1.659653067	0
C11orf91	1.100642416	3.319306133	0
LINC0065	12.10706658	27.3842756	4.444690926
SLC10A5P	1.100642416	1.659653067	0
FABP9	3.301927249	2.4894796	23.33462736
ZBTB10	1764.329793	3496.059185	2203.455526
C4orf46	49.52890873	287.1199805	7.77820912
SCGB2B2	15.40899383	43.98080627	6.667036389
LGR4	994.9807443	501.2152262	714.4840663
PSMB10	60.5353329	11.61757147	30.00166375
VIT	11.00642416	18.25618373	96.67202764
TTLL10-A	2.201284833	0.829826533	0
SPDYE2	1.100642416	0	0
OR7E36P	0	0.829826533	0
E2F4	297.1734524	223.2233375	414.4674288
DGAT2L7	2.201284833	0	0
PDE7A	851.8972302	1110.307902	283.3490465
TMEM170	45.12633907	99.579184	38.8910456

MUC12	2189.177766	41.49132667	17870.99104
CTXN3	0	0.829826533	15.55641824
ENSG0000	0	1.659653067	0
MGAT4D	7.704496914	4.149132667	18.88993643
SNX2	719.8201403	497.89592	535.5852566
NT5M	27.51606041	45.64045934	11.11172731
SARNP	2.201284833	11.61757147	0
ENSG0000	0	0.829826533	0
OR6C68	2.201284833	3.319306133	12.22290005
OR6C65	1.100642416	0.829826533	16.66759097
OR6C3	5.503212081	0	4.444690926
OR6C1	0	4.149132667	0
GOLGA2P	0	0.829826533	1.111172731
ADGRG1	567.9314868	453.9151138	490.0271746
IPO7	2498.458285	2508.56561	1222.290005
PRR13	31.91863007	39.8316736	17.7787637
TECPR1	158.4925079	109.5371024	468.9148927
MT1H	0	7.4684388	6.667036389
SLCO6A1	2.201284833	101.2388371	25.55697282
MT1A	6.603854498	0.829826533	0
INSYN1	64.93790256	52.2790716	220.0122008
MT1M	14.30835141	7.4684388	0
LINC0066	0	0	1.111172731
CFI	41.82441182	3.319306133	65.55919115
OR52E6	0	87.131786	22.22345463
HNRNPA1	3.301927249	0	1.111172731
SAMD9	849.6959454	612.4119816	187.7881916
ENSG0000	1.100642416	0.829826533	0
KRT6A	117.7687385	4.149132667	36.66870014
CNEP1R1	66.03854498	157.6670413	32.22400921
KRT81	3.301927249	6.638612267	0
EXOC3L4	12.10706658	14.10705107	8.889381852
IZUMO3	8.80513933	4.149132667	3.333518194
KU-MEL-3	1.100642416	0	0
KRTAP10-	0	8.298265334	1.111172731
NBPF22P	0	0.829826533	0
TP53TG3D	2.201284833	0	0
ATP6AP1I	49.52890873	44.8106328	36.66870014
CCDC85C	296.07281	359.3148889	460.0255108
SPDYE18	13.207709	13.27722453	15.55641824
CALML3-/	1.100642416	53.10889814	2.222345463
OR51A2	0	0	26.66814555
OR51A4	1.100642416	0	0
MAPRE3-/	1.100642416	0.829826533	0

C2CD4B	3.301927249	9.9579184	103.339064
RGL3	173.9015018	456.4045934	765.598012
NAP1L4	24.21413316	63.06681654	15.55641824
SMG1P2	40.7237694	44.8106328	101.1167186
TMSB4X	567.9314868	1166.736106	271.1261465
LINC0304	0	4.149132667	10.00055458
CHKB-DT	11.00642416	10.78774493	0
CPT1B	9.905781747	4.149132667	2.222345463
FLRT2-AS	0	0.829826533	0
SMN2	9.905781747	14.10705107	1.111172731
SERF1B	1.100642416	0.829826533	0
POM121B	18.71092108	16.59653067	20.00110917
HMGN1	319.1863007	1000.770799	72.22622754
MUC19	224.5310529	458.0642464	270.0149737
DENND6B	219.0278408	37.342194	151.1194915
ENSG0000	0	0.829826533	0
EIF3CL	68.23982981	24.894796	280.0155283
LINC0159	1.100642416	0.829826533	1.111172731
ENSG0000	3.301927249	27.3842756	1.111172731
ENSG0000	0	0.829826533	0
LINC0144	2.201284833	25.72462253	0
LCMT1	302.6766645	497.0660935	526.6958747
LINC0131	1.100642416	0	0
LINC0089	0	3.319306133	0
MFSD2B	7.704496914	4.149132667	26.66814555
VCX3B	1.100642416	3.319306133	95.5608549
CDPF1	40.7237694	21.57548987	20.00110917
LIN52	84.74946605	319.4832153	85.56030032
ARSH	4.402569665	2.4894796	35.55752741
ACOT6	2.201284833	4.9789592	7.77820912
SMIM11	11.00642416	16.59653067	54.44746384
TECRL	3.301927249	5.808785734	3.333518194
DPF3	6.603854498	4.149132667	13.33407278
MANSC4	13.207709	2.4894796	5.555863657
ADARB2-A	0	2.4894796	0
SMIM45	0	3.319306133	0
ETFRF1	267.4561072	126.1336331	43.33573653
C17orf107	210.2227015	18.25618373	300.0166375
ITSN1	1529.892959	1769.190169	1872.326052
ITPRIPL2	300.4753796	160.1565209	316.6842285
ENSG0000	14.30835141	11.61757147	1.111172731
DENND1C	195.9143501	19.08601027	66.67036389
ENSG0000	1.100642416	0	0
PKD1P4	35.22055732	64.7264696	183.3435007

SLCO1B7	2.201284833	0.829826533	0
CRYZL1	314.7837311	479.6397363	542.2522929
RP9P	1.100642416	2.4894796	1.111172731
RIMOC1	268.5567496	345.2078379	262.2367646
CATSPER	5.503212081	6.638612267	0
GAGE1	4.402569665	0	1.111172731
ARRDC5	29.71734524	1.659653067	2.222345463
DPP9-AS1	3.301927249	2.4894796	3.333518194
ENSG0000	2.201284833	4.9789592	2.222345463
CYS1	5.503212081	4.149132667	5.555863657
PLPP6	108.9635992	108.7072759	151.1194915
KLRC2	4.402569665	2.4894796	3.333518194
KLRC3	3.301927249	1.659653067	2.222345463
C16orf96	7.704496914	23.23514293	97.78320037
GMNC	25.31477557	9.9579184	162.2312188
LINC0048	0	0.829826533	1.111172731
TTC23L	59.43469048	67.2159492	71.11505481
CLEC6A	1.100642416	1.659653067	0
RFPL3S	60.5353329	40.66150013	94.44968217
C22orf42	3.301927249	2.4894796	14.44524551
NANOGNI	1.100642416	0	12.22290005
LRRC72	7.704496914	0	5.555863657
PCOTH	68.23982981	14.9368776	14.44524551
C1QTNF9I	1.100642416	0	6.667036389
RPS3AP47	6.603854498	3.319306133	4.444690926
FAM90A2	1.100642416	0	0
DEFB136	0	0.829826533	0
C1RL-AS1	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
OR7E136P	1.100642416	0	0
BHLHA9	4.402569665	2.4894796	1.111172731
ZNF316	370.9164943	239.8198681	588.9215477
SRRM2-AS	12.10706658	38.17202053	2.222345463
ONECUT3	3.301927249	0	1.111172731
CEMP1	15.40899383	4.149132667	37.77987287
OLIG2	0	5.808785734	2.222345463
C21orf62-A	1.100642416	13.27722453	0
RNPS1	827.6830971	1926.85721	1000.055458
HSP90AB2	1.100642416	3.319306133	1.111172731
DAZ2	3.301927249	0	0
USP17L6P	7.704496914	1.659653067	1.111172731
HSP90AA5	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	3.301927249	4.149132667	14.44524551

NYNRIN	281.7644586	230.6917763	381.1322469
DNAJC19	186.0085684	126.9634596	41.11339106
IFITM5	1.100642416	0	0
SMIM21	1.100642416	0.829826533	8.889381852
ENSG0000	0	0	1.111172731
C18orf63	8.80513933	0.829826533	4.444690926
DOK6	64.93790256	992.4725339	292.2384284
JPT2	345.6017187	791.6545128	382.2434196
LHFPL7	0	0.829826533	0
SERPINB1	9.905781747	0	3.333518194
SERPINB4	12.10706658	0.829826533	0
SERPINB5	26.41541799	63.06681654	3.333518194
ZDHHC11	195.9143501	141.9003372	166.6759097
KRTAP20-	0	0	2.222345463
KRTAP27-	2.201284833	0.829826533	0
CFAP99	17.61027866	0	2.222345463
EGFEM1P	1.100642416	0	0
GOLGA8C	18.71092108	0	2.222345463
LINC0306	3.301927249	0	0
TMEM191	7.704496914	4.9789592	13.33407278
FAM230H	0	0.829826533	0
MAPK6P1	4.402569665	4.149132667	0
P2RX6P	0	0	3.333518194
RPL23AP5	0	0	1.111172731
RNASE13	4.402569665	2.4894796	0
C4orf46P1	0	0	1.111172731
HBA1	7.704496914	2220.615803	62.22567296
HBZP1	0	1.659653067	0
ELOA2	2.201284833	0.829826533	0
LINC0234	0	0.829826533	0
ATP10A	304.8779493	69.7054288	251.1250373
DUXAP8	16.50963624	0.829826533	3.333518194
ANKUB1	7.704496914	88.79143907	13.33407278
TSSK2	0	0.829826533	3.333518194
HNRNPA1	2.201284833	0.829826533	7.77820912
PRR23A	7.704496914	0.829826533	8.889381852
FOXL2NB	23.11349074	29.04392867	25.55697282
HCP5	6.603854498	4.9789592	0
HCG27	2.201284833	5.808785734	25.55697282
ENSG0000	0	0.829826533	3.333518194
COL6A6	23.11349074	190.0302761	61.11450023
H1-10-AS1	12.10706658	29.8737552	23.33462736
RAB12	423.7473303	259.7357049	181.1211552
LRRC30	0	0.829826533	16.66759097

TMEM200	26.41541799	62.23699	46.66925472
PPIAP30	6.603854498	0.829826533	4.444690926
HACD2	1659.768764	1161.757147	524.4735292
CFAP44	1340.582463	668.0103594	976.7208309
CD200R1L	5.503212081	4.9789592	0
LNP1	28.61670282	64.7264696	0
OR5K3	4.402569665	0	0
VGLL3	4801.00222	53.10889814	85.56030032
KRBOX1-A	0	0.829826533	0
ZCWPW2	20.91220591	14.10705107	12.22290005
ANKRD28	1679.580327	2373.303885	2029.001408
COLQ	67.13918739	76.34404107	105.5614095
METTL6	193.7130653	327.7814807	286.6825647
ENSG0000	18.71092108	37.342194	23.33462736
THUMPD3	99.05781747	171.7740924	24.44580009
XKR4	6.603854498	4.149132667	18.88993643
RNVU1-7	0	1.659653067	0
RNU1-28P	1.100642416	0	0
RNU1-27P	1.100642416	0	0
SNORA22	1.100642416	1.659653067	0
RNU6-946	1.100642416	0	0
SNORD11	0	1.659653067	0
SNORA2A	0	4.149132667	0
RNU6-979	2.201284833	2.4894796	0
SNORA80	2.201284833	2.4894796	2.222345463
SNORA22	49.52890873	116.1757147	6.667036389
RNU6-106	2.201284833	5.808785734	0
RNU6-672	1.100642416	0	0
RNU6-127	0	2.4894796	0
Y_RNA.67	2.201284833	1.659653067	0
RNU1-1	17.61027866	32.3632348	5.555863657
SNORD11	0	3.319306133	2.222345463
Y_RNA.68	0	0	1.111172731
Y_RNA.69	0	2.4894796	0
RNU6-945	0	0.829826533	0
Y_RNA.70	5.503212081	0.829826533	0
RNU6-118	1.100642416	0	0
RNU1-109	1.100642416	4.149132667	0
RNU1-11P	1.100642416	0.829826533	0
Y_RNA.71	0	0.829826533	0
RNU6-26P	0	0.829826533	0
Y_RNA.72	0	0.829826533	0
RNU6-444	2.201284833	2.4894796	0
RNU6-105	1.100642416	0	0

Y_RNA.73	1.100642416	1.659653067	0
RNU6-936	0	0.829826533	0
RNVU1-18	0	0	1.111172731
SNORA30	0	0.829826533	0
Y_RNA.74	1.100642416	1.659653067	0
RNU6-418	0	1.659653067	0
RNU6-10P	1.100642416	0	0
RNU6-203	0	0.829826533	0
Y_RNA.75	3.301927249	1.659653067	0
Y_RNA.76	0	0.829826533	0
Y_RNA.77	0	1.659653067	0
RNVU1-30	0	0.829826533	0
RNU6-102	0	0.829826533	0
SNORA5A	1.100642416	1.659653067	0
RNU6-767	0	1.659653067	0
RNU6-207	1.100642416	0	0
SNORA70	1.100642416	0	3.333518194
RNU6-761	0	1.659653067	0
ENSG0000	0	1.659653067	0
RNU6-48P	0	0.829826533	0
SNORA9B	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
RNU6-36P	1.100642416	0	0
SNORA24	2.201284833	0	0
RNU6-101	1.100642416	0	0
Y_RNA.78	1.100642416	1.659653067	0
RNU1-52P	0	0.829826533	0
RNU6-432	0	0.829826533	0
RNU6-102	2.201284833	0	0
RNU6-4P	2.201284833	0	0
SNORA70	1.100642416	0	1.111172731
RNU6-708	0	1.659653067	0
RNU6-132	0	0.829826533	0
RNU6-120	0	2.4894796	1.111172731
RNU6-131	1.100642416	0.829826533	0
RNU6-474	1.100642416	0	0
Y_RNA.79	0	0.829826533	0
RNU6-610	0	0.829826533	0
RNU6-611	3.301927249	4.149132667	0
RNU6-301	1.100642416	0	0
RNU6-72P	1.100642416	0.829826533	0
RNU6-167	1.100642416	0	0
RNU6-3P	1.100642416	0	0
RNU6-122	0	1.659653067	0

RNU1-8P	0	0.829826533	0
SNORA72	0	3.319306133	0
RNU6-111	0	0.829826533	0
RNU6-171	4.402569665	12.447398	2.222345463
SNORA7B	2.201284833	9.9579184	0
Y_RNA.80	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
SNORA70	0	0	1.111172731
Y_RNA.81	2.201284833	0	0
Y_RNA.82	1.100642416	0	0
SNORD38	2.201284833	0	0
RNU6-31P	0	0.829826533	0
Y_RNA.83	0	1.659653067	0
U3.1	0	0.829826533	0
Y_RNA.84	0	0	1.111172731
RNU6-106	0	0.829826533	0
RNU6-769	0	0.829826533	0
RNU6-185	1.100642416	0	0
RNY1P14	1.100642416	0	1.111172731
Y_RNA.85	0	0.829826533	0
RNU6-905	0	0.829826533	0
SNORA15	0	0.829826533	0
RNU1-67P	1.100642416	0.829826533	0
SNORA14	0	0.829826533	0
SNORD38	0	3.319306133	0
RNU6-45P	0	0.829826533	0
SNORA80	0	0.829826533	0
SNORA70	0	0.829826533	0
Y_RNA.86	0	0.829826533	0
SNORA37	0	5.808785734	1.111172731
RNU6-125	0	0.829826533	0
Y_RNA.87	2.201284833	0.829826533	0
SNORA70	0	0.829826533	0
Y_RNA.88	1.100642416	0	0
SNORA2B	0	1.659653067	0
RNU1-89P	0	0.829826533	0
Y_RNA.89	0	0.829826533	0
RNU6-126	0	0.829826533	0
RNU6-658	0	1.659653067	0
SNORA22	15.40899383	25.72462253	0
RNU6-122	2.201284833	0	0
RNVU1-17	1.100642416	0	0
RNU6-540	1.100642416	0.829826533	0
RNU6-2	6.603854498	10.78774493	2.222345463

RNU6-925	0	3.319306133	0
Y_RNA.90	1.100642416	1.659653067	0
Y_RNA.91	0	1.659653067	0
RNU6-748	0	2.4894796	0
Y_RNA.92	0	0.829826533	0
Y_RNA.93	0	0.829826533	0
RNU1-4	9.905781747	13.27722453	1.111172731
SNORA20	2.201284833	5.808785734	0
RNU6-106	0	0.829826533	0
RNU6-117	0	0.829826533	0
Y_RNA.94	1.100642416	7.4684388	0
Y_RNA.95	1.100642416	0	0
RNU6-813	1.100642416	0	0
SNORD15	44.02569665	219.9040313	32.22400921
Y_RNA.96	0	1.659653067	0
SNORA80	1.100642416	7.4684388	0
Y_RNA.97	1.100642416	1.659653067	1.111172731
RNU6-987	0	0.829826533	0
SNORA46	0	2.4894796	0
Y_RNA.98	0	1.659653067	0
RNU6-9	0	0.829826533	0
RNU6-123	0	0.829826533	0
SNORA66	0	3.319306133	0
RNU6-33P	0	0.829826533	0
Y_RNA.99	1.100642416	0.829826533	0
MIR647	1.100642416	0.829826533	0
MIR578	0	6.638612267	0
MIR23B	1.100642416	3.319306133	1.111172731
MIR433	2.201284833	0	7.77820912
MIR550A2	0	2.4894796	0
MIR661	0	0.829826533	0
MIR662	0	0.829826533	0
MIR606	1.100642416	0	0
MIR181A2	0	0	1.111172731
MIR554	0	2.4894796	0
MIR200A	1.100642416	0	1.111172731
MIR149	3.301927249	0	1.111172731
MIR604	1.100642416	5.808785734	0
MIR619	2.201284833	1.659653067	1.111172731
MIR641	0	0.829826533	0
MIR595	0	0.829826533	0
MIR99A	0	0	1.111172731
MIR571	0	0.829826533	0
MIR489	0	0.829826533	0

MIR602	0	1.659653067	0
MIR573	0	1.659653067	0
MIR186	1.100642416	1.659653067	0
MIR556	0	0.829826533	0
MIR181B2	3.301927249	0	0
MIR590	0	1.659653067	0
MIR10B	0	0.829826533	0
MIR575	0	0.829826533	0
MIR299	1.100642416	0	0
MIR553	1.100642416	7.4684388	0
ENSG0000	0	1.659653067	0
MIR532	1.100642416	2.4894796	0
MIR617	0	0.829826533	0
MIR626	0	1.659653067	0
MIR586	0	2.4894796	0
MIR648	4.402569665	6.638612267	0
MIR520G	0	0.829826533	0
MIR483	0	0.829826533	0
MIR95	0	0.829826533	0
MIR640	0	0.829826533	0
MIR27B	2.201284833	2.4894796	0
MIR221	0	1.659653067	0
ENSG0000	0	1.659653067	0
MIR559	0	3.319306133	0
MIR603	0	3.319306133	0
MIR511	0	0.829826533	0
MIR567	0	0.829826533	0
MIR136	2.201284833	0.829826533	0
MIR328	1.100642416	0.829826533	0
MIR561	0	1.659653067	0
MIR624	0	1.659653067	1.111172731
MIR219A2	0	0.829826533	0
MIR569	0	0.829826533	0
MIR620	0	0.829826533	0
MIR125B1	0	0.829826533	0
MIR601	0	2.4894796	0
MIR301A	0	0.829826533	0
MIR644A	0	0.829826533	0
MIR431	1.100642416	0	0
MIR643	1.100642416	0.829826533	0
MIR645	1.100642416	0	0
MIR618	0	2.4894796	0
MIR591	0	0.829826533	0
SNORA40	0	0.829826533	0

SNORD94	3.301927249	3.319306133	3.333518194
SNORA35	0	0	1.111172731
SNORD96	2.201284833	0	0
SNORA49	0	17.4263572	0
SNORD12	0	3.319306133	0
MT-TL1	4.402569665	14.9368776	0
SNORD83	0	0.829826533	0
MT-TF	9.905781747	7.4684388	0
MT-TV	1.100642416	4.149132667	0
MT-RNR2	68877.10177	211619.8731	5375.853675
MT-TI	30.81798766	126.9634596	0
MT-TQ	23.11349074	84.6423064	7.77820912
MT-TM	13.207709	21.57548987	2.222345463
MT-TW	4.402569665	21.57548987	0
MT-TA	16.50963624	53.93872467	0
MT-TC	2.201284833	0	0
MT-TY	5.503212081	1.659653067	0
MT-TS1	5.503212081	29.8737552	1.111172731
MT-TD	4.402569665	6.638612267	0
MT-TK	2.201284833	1.659653067	0
RNU6ATA	0	0.829826533	0
MT-TL2	2.201284833	1.659653067	0
MT-TE	13.207709	41.49132667	1.111172731
MT-TT	6.603854498	53.93872467	1.111172731
MT-TP	16.50963624	122.8143269	1.111172731
MIR190A	0	0.829826533	0
GPX3	115.5674537	56.42820427	253.3473828
DIO2	1096.239847	282.9708479	35.55752741
SELENOH	8.80513933	12.447398	2.222345463
GNRHR2	2.201284833	4.9789592	2.222345463
DIO1	20.91220591	0.829826533	16.66759097
AKR7L	38.52248457	40.66150013	77.7820912
STK38L	574.5353413	1078.774493	337.7965104
SACM1L	1109.447556	660.5419206	440.0244016
MT-RNR1	38004.08199	113185.8497	3474.637131
TSN	289.4689555	726.9280432	206.678128
MIR454	0	4.149132667	0
MIR3065	0	1.659653067	0
SLC48A1	28.61670282	78.83352067	54.44746384
MIR762	2.201284833	0	0
IGKC	12529.71327	248.1181335	0
IGKJ5	17.61027866	0	0
IGKJ4	3.301927249	1.659653067	2.222345463
IGKJ3	14.30835141	0	0

IGKJ1	4.402569665	0	0
IGKV4-1	253.1477557	7.4684388	0
IGKV2D-2	1.100642416	0	8.889381852
IGKV3D-2	3.301927249	0	0
IGKV6D-4	0	0.829826533	0
IGKV3D-1	5.503212081	0	0
IGKV1D-4	3.301927249	2.4894796	0
IGLV8-61	2.201284833	0	0
IGLV4-60	5.503212081	0.829826533	2.222345463
IGLV6-57	1.100642416	1.659653067	0
IGLV5-52	0	0.829826533	8.889381852
IGLV1-50	5.503212081	3.319306133	7.77820912
IGLV5-48	2.201284833	0	0
IGLV1-47	17.61027866	7.4684388	6.667036389
IGLV7-46	24.21413316	25.72462253	0
IGLV1-44	2.201284833	0	0
IGLV7-43	1.100642416	0	0
IGLV1-40	1.100642416	0	0
IGLV3-25	9.905781747	0	38.8910456
IGLV2-23	45.12633907	2.4894796	4.444690926
IGLV3-22	2.201284833	0	4.444690926
IGLV3-21	48.42826632	7.4684388	0
IGLV3-16	3.301927249	0	0
IGLV2-14	7.704496914	4.9789592	6.667036389
IGLV3-12	4.402569665	0	1.111172731
IGLV2-11	101.2591023	0.829826533	4.444690926
IGLV3-10	3.301927249	0	0
IGLV3-9	3.301927249	0	0
IGLV4-3	0	1.659653067	12.22290005
IGLV3-1	40.7237694	0.829826533	0
IGLJ2	3.301927249	0	0
IGLC2	1190.895094	35.68254093	0
IGLJ3	0	0.829826533	0
IGLC3	399.5331971	20.74566333	0
IGLJ4	2.201284833	0.829826533	8.889381852
ENSG0000	0	0.829826533	0
IGLJ7	0	0	2.222345463
IGLC7	11.00642416	0	1.111172731
TRGJ2	248.7451861	0	0
TRGJP2	31.91863007	0	0
TRGC1	56.13276323	0	0
TRGJ1	848.595303	0	0
TRGJP	1.100642416	0	1.111172731
TRGJP1	7.704496914	0.829826533	0

TRGV11	5.503212081	0	23.33462736
TRGV10	140.8822293	0	35.55752741
TRGV9	324.6895128	0	56.6698093
TRGV8	6.603854498	0	0
TRGV5	0	0	1.111172731
TRGV4	6.603854498	0	0
TRGV3	20.91220591	0	4.444690926
TRGV1	1.100642416	1.659653067	0
TRBV6-1	1.100642416	0	0
TRBV7-1	1.100642416	0	0
TRBV5-3	1.100642416	0	0
TRBV6-6	2.201284833	0.829826533	0
TRBV7-6	2.201284833	0	3.333518194
TRBV19	2.201284833	0	0
TRBV20-1	2.201284833	0	0
TRBC1	51.73019357	0	0
TRBJ2-7	1.100642416	0	0
TRBC2	16.50963624	0	0
TRAV2	0	3.319306133	10.00055458
TRAV3	0	0	16.66759097
TRAV4	9.905781747	1.659653067	6.667036389
TRAV5	3.301927249	0	11.11172731
TRAV6	4.402569665	2.4894796	6.667036389
TRAV7	0	0	7.77820912
TRAV8-1	3.301927249	0	10.00055458
TRAV9-1	3.301927249	0	0
TRAV10	1.100642416	0.829826533	0
TRAV12-1	14.30835141	2.4894796	2.222345463
TRAV8-2	13.207709	0.829826533	12.22290005
TRAV8-3	7.704496914	0	3.333518194
TRAV13-1	16.50963624	1.659653067	0
TRAV12-2	9.905781747	2.4894796	7.77820912
TRAV8-4	3.301927249	0.829826533	0
TRAV13-2	8.80513933	2.4894796	0
TRAV14D	3.301927249	0	0
TRAV9-2	1.100642416	0.829826533	0
TRAV12-3	1.100642416	2.4894796	1.111172731
TRAV8-6	6.603854498	0	0
TRAV16	2.201284833	0	2.222345463
TRAV17	3.301927249	1.659653067	1.111172731
TRAV18	3.301927249	0	1.111172731
TRAV19	2.201284833	0.829826533	20.00110917
TRAV20	3.301927249	0.829826533	5.555863657
TRAV21	3.301927249	3.319306133	0

TRAV22	3.301927249	2.4894796	17.7787637
TRAV23D	13.207709	0	3.333518194
TRDV1	3.301927249	0.829826533	0
TRAV24	1.100642416	1.659653067	0
TRAV25	3.301927249	2.4894796	5.555863657
TRAV26-1	9.905781747	1.659653067	0
TRAV8-7	0	0.829826533	0
TRAV27	5.503212081	0.829826533	2.222345463
TRAV29D	5.503212081	0	0
TRAV26-2	1.100642416	1.659653067	0
TRAV34	3.301927249	0	0
TRAV36D	1.100642416	1.659653067	0
TRAV38-1	8.80513933	1.659653067	7.77820912
TRAV38-2	25.31477557	0	0
TRAV39	4.402569665	0.829826533	1.111172731
TRAV40	2.201284833	0	2.222345463
TRAV41	12.10706658	0.829826533	5.555863657
TRDJ1	3.301927249	0	0
TRDJ2	4.402569665	0.829826533	0
TRDJ3	7.704496914	0	2.222345463
TRDC	1.100642416	1.659653067	0
TRAJ59	1.100642416	0	0
TRAJ58	0	3.319306133	0
TRAJ56	2.201284833	0	0
TRAJ53	3.301927249	0	0
TRAJ50	4.402569665	1.659653067	5.555863657
TRAJ49	8.80513933	0	0
TRAJ48	7.704496914	1.659653067	18.88993643
TRAJ47	1.100642416	0	0
TRAJ46	11.00642416	0.829826533	4.444690926
TRAJ45	6.603854498	0	0
TRAJ44	5.503212081	0	0
TRAJ42	2.201284833	0	0
TRAJ41	12.10706658	2.4894796	0
TRAJ40	18.71092108	0	4.444690926
TRAJ39	3.301927249	0	5.555863657
TRAJ38	3.301927249	0	0
TRAJ35	14.30835141	0	2.222345463
TRAJ34	13.207709	1.659653067	0
TRAJ33	13.207709	0	0
TRAJ32	2.201284833	0.829826533	0
TRAJ31	15.40899383	0	1.111172731
TRAJ30	2.201284833	0.829826533	0
TRAJ29	19.81156349	2.4894796	1.111172731

TRAJ28	8.80513933	0	0
TRAJ27	4.402569665	0	1.111172731
TRAJ26	6.603854498	1.659653067	0
TRAJ25	15.40899383	1.659653067	13.33407278
TRAJ24	8.80513933	1.659653067	0
TRAJ23	44.02569665	0	8.889381852
TRAJ22	49.52890873	0	0
TRAJ21	7.704496914	0.829826533	0
TRAJ20	3.301927249	0	0
TRAJ19	31.91863007	0.829826533	5.555863657
TRAJ18	12.10706658	1.659653067	1.111172731
TRAJ17	3.301927249	0	0
TRAJ16	7.704496914	0	0
TRAJ14	14.30835141	0.829826533	0
TRAJ13	2.201284833	0	4.444690926
TRAJ12	34.11991491	0	0
TRAJ11	22.01284833	0	10.00055458
TRAJ10	3.301927249	0	3.333518194
TRAJ9	15.40899383	0	6.667036389
TRAJ7	1.100642416	0	14.44524551
TRAJ6	4.402569665	3.319306133	0
TRAJ5	5.503212081	0	0
TRAJ4	3.301927249	0	0
TRAJ3	13.207709	0	0
TRAJ2	2.201284833	0	0
TRAJ1	2.201284833	0	0
IGHA2	52.83083598	0	0
IGHG4	122.1713082	8.298265334	1.111172731
IGHG2	314.7837311	6.638612267	0
IGHA1	93.55460539	8.298265334	0
IGHG1	1579.421867	19.9158368	1.111172731
IGHG3	283.9657434	1.659653067	1.111172731
IGHD	2.201284833	0.829826533	0
IGHM	114.4668113	4.149132667	0
IGHD3-16	0	0	1.111172731
IGHV6-1	354.406858	0	0
IGHV1-2	1.100642416	0.829826533	0
IGHV1-3	1.100642416	0	0
IGHV2-5	1.100642416	0	0
IGHV3-7	23.11349074	0	0
IGHV3-11	12.10706658	3.319306133	0
IGHV3-13	2.201284833	0	0
IGHV3-15	13.207709	0	0
IGHV1-18	3.301927249	0	0

IGHV3-21	11.00642416	0	0
IGHV3-23	410.5396213	2.4894796	0
IGHV4-28	3.301927249	0	0
IGHV3-33	42.92505424	2.4894796	0
IGHV7-81	0	2.4894796	8.889381852
MIR708	0	0.829826533	0
MIR548U	3.301927249	9.9579184	0
MIR550A3	1.100642416	3.319306133	0
MIR764	0	0	1.111172731
TSSK1B	15.40899383	0	0
PRR22	24.21413316	23.23514293	163.3423915
TAS2R15P	1.100642416	0.829826533	0
TAS2R50	1.100642416	3.319306133	0
TAS2R14	4.402569665	3.319306133	3.333518194
TAS2R13	4.402569665	2.4894796	3.333518194
SNORD67	3.301927249	25.72462253	1.111172731
RNA5SP37	2.201284833	0	0
U8	0	0.829826533	0
RNU1-77P	1.100642416	0	0
RNU6-298	0	2.4894796	0
U3.2	3.301927249	11.61757147	1.111172731
RNU6-132	1.100642416	0	0
SNORD17	250.9464709	551.8346447	35.55752741
RNA5SP18	0	0.829826533	0
RNU6-750	1.100642416	1.659653067	0
RNU6-117	3.301927249	3.319306133	1.111172731
RNU6-788	1.100642416	0	0
SNORD89	14.30835141	14.9368776	0
SNORD72	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
RNU6-679	7.704496914	5.808785734	0
Y_RNA.10	1.100642416	1.659653067	0
RNU6-122	1.100642416	0	0
Y_RNA.10	0	0.829826533	0
RNU6-124	0	2.4894796	0
RNU6-117	0	4.149132667	0
RNU6-124	0	1.659653067	0
RNU6-482	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
SNORD11	0	2.4894796	0
RNU6-127	1.100642416	0.829826533	0
SNORA74	48.42826632	96.25987787	87.78264578
RNU11-3P	0	1.659653067	0
SNORD11	1.100642416	0	0

RNU11-6P	3.301927249	0.829826533	0
SNORA75	1.100642416	0	0
U3.3	1.100642416	1.659653067	0
SNORA53	45.12633907	87.131786	20.00110917
RNA5SP28	0	0.829826533	0
ENSG0000	0	0.829826533	0
SNORA12	8.80513933	38.17202053	0
RNU6-530	0	0.829826533	0
SNORD19	0	0	1.111172731
RNA5SP46	0	1.659653067	1.111172731
RNA5SP29	1.100642416	0	0
Y_RNA.10	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
SNORD70	0	3.319306133	0
RNU6-808	0	2.4894796	0
RNA5SP47	0	5.808785734	0
RNA5SP35	1.100642416	0.829826533	0
RNU1-78P	1.100642416	0	0
ENSG0000	0	1.659653067	0
RNA5SP46	0	0.829826533	0
RNA5SP52	1.100642416	0	0
SNORA3B	2.201284833	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	0	3.319306133	0
RPL17P39	15.40899383	13.27722453	21.1122819
LINC0108	13.207709	37.342194	5.555863657
ENSG0000	0	0	1.111172731
LINC0269	122.1713082	150.1986025	70.00388208
KRTAP2-1	0	0.829826533	0
LINC0265	2.201284833	6.638612267	1.111172731
RTL8B	158.4925079	140.2406841	124.4513459
ST13P5	4.402569665	3.319306133	1.111172731
RPL15P3	29.71734524	34.8527144	67.78153662
OR2A42	1.100642416	0	0
RNF208	63.83726015	39.8316736	68.89270935
KRTAP3-3	1.100642416	0	0
KRTAP3-1	2.201284833	0	3.333518194
MT-ND4L	1844.67669	5062.77168	68.89270935
MAP10	49.52890873	7.4684388	34.44635467
KRTAP12-	0	4.149132667	0
KRTAP10-	0	16.59653067	2.222345463
KRTAP6-3	0	0	3.333518194
HNRNPA1	0	2.4894796	1.111172731

C2orf74-D	3.301927249	12.447398	0
POU5F1B	7.704496914	2.4894796	40.00221833
RPS26P6	2.201284833	0.829826533	0
ZNF580	159.5931504	135.2617249	182.232328
PABPN1P1	0	0.829826533	1.111172731
ZNF611	782.556758	1608.203822	713.3728936
SYT3	0	5.808785734	45.55808199
NUP62	662.5867346	1238.101188	775.5985665
COX20P1	12.10706658	38.17202053	32.22400921
ENSG0000	1.100642416	0.829826533	3.333518194
CGB8	1.100642416	0	0
AURKAP1	4.402569665	1.659653067	0
ENSG0000	18.71092108	4.9789592	0
RPL17P8	0	0	2.222345463
ENSG0000	0	0.829826533	0
DENND1B	646.0770984	326.9516541	1207.844759
OR5S1P	0	0	1.111172731
TPM3P1	0	0.829826533	0
EEF1B2P7	1.100642416	0	0
C1orf220	2.201284833	6.638612267	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	31.91863007	78.83352067	6.667036389
RPL29P7	2.201284833	0.829826533	0
SFT2D2	400.6338395	633.9874715	362.2423104
ENSG0000	1.100642416	0	0
CEP43	71.54175706	279.6515417	91.11616398
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
HMGB3P6	2.201284833	0.829826533	1.111172731
LPAL2	6.603854498	11.61757147	0
RPL31P11	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
SCAF8	3205.070716	3725.091308	2716.817328
ENSG0000	125.4732355	53.10889814	1.111172731
PPP1R14B	1.100642416	1.659653067	0
CFAP45	35.22055732	46.47028587	14.44524551
ACKR1	41.82441182	1.659653067	26.66814555
PDCL3P5	7.704496914	20.74566333	2.222345463
SCYL2P1	39.62312699	9.128091867	13.33407278
ZNF254	741.8329886	1102.009636	771.1538756
KRT18P68	0	0	2.222345463
NPM1P46	0	0	1.111172731
BTF3L4P3	2.201284833	0	0

RPL7AP37	0	1.659653067	0
RNF11P1	0	0.829826533	2.222345463
TUBB8P8	0	1.659653067	1.111172731
ENSG0000	3.301927249	1.659653067	2.222345463
LIN28AP1	0	0.829826533	0
DYNLT2B	27.51606041	39.8316736	1.111172731
YWHAZP4	0	0	4.444690926
PPP1R14B	1.100642416	0	0
ARF1P2	12.10706658	3.319306133	2.222345463
CRYGS	36.32119974	12.447398	20.00110917
ENSG0000	1.100642416	0	0
CRIP1	1.100642416	0.829826533	0
CNN2P9	2.201284833	0	1.111172731
ENSG0000	0	0	11.11172731
RPL7AP60	7.704496914	3.319306133	2.222345463
RPL32P10	0	0	4.444690926
GAPDHP3	1.100642416	0	0
KLHL23	421.5460454	1855.492129	775.5985665
RPL8P4	1.100642416	0	0
SAR1AP2	0	0	1.111172731
LINGO4	23.11349074	9.128091867	6.667036389
PRDX2P4	0	2.4894796	3.333518194
RPL22P1	191.5117804	350.1867971	145.5636278
RPL17P41	0	1.659653067	0
ENSG0000	1.100642416	0	5.555863657
FAM24B	42.92505424	73.85456147	31.11283648
TRIM59	37.42184215	68.87560227	56.6698093
COPS5P1	2.201284833	0	0
YBX1P4	2.201284833	0	0
BTF3L4P2	46.22698148	24.06496947	15.55641824
MLLT11	11.00642416	199.158368	11.11172731
NUDCP1	5.503212081	0.829826533	2.222345463
ASIC3	29.71734524	42.3211532	28.89049102
GIMAP1	34.11991491	9.9579184	1.111172731
ENSG0000	7.704496914	2.4894796	0
STRADBP	1.100642416	0	0
RPL32P17	0	0	1.111172731
NCLP1	0	0	1.111172731
CCDC183	8.80513933	20.74566333	45.55808199
ARHGEF3	7.704496914	1.659653067	31.11283648
ENSG0000	1.100642416	0	1.111172731
CSH2	0	0.829826533	8.889381852
DNLZ	0	4.149132667	1.111172731
NOC2LP1	0	1.659653067	1.111172731

ENSG0000	2.201284833	0	0
RPL12P38	2.201284833	2.4894796	2.222345463
TCL1B	0	3.319306133	0
ST13P10	0	1.659653067	0
EEF1A1P1	3.301927249	0	8.889381852
YWHAZP2	1.100642416	1.659653067	1.111172731
PTMAP10	0	2.4894796	0
H3P4	4.402569665	3.319306133	0
SUPT4H1	7.704496914	4.9789592	0
RBMS2P1	37.42184215	9.128091867	30.00166375
ENSG0000	5.503212081	4.149132667	2.222345463
RPL12P42	3.301927249	2.4894796	0
YWHAZP5	2.201284833	9.9579184	1.111172731
EEF1B2P6	30.81798766	35.68254093	7.77820912
NIP7P2	1.100642416	0.829826533	0
TSGA13	5.503212081	2.4894796	18.88993643
RPS6P26	1.100642416	0	0
IFITM9P	0	0	2.222345463
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0.829826533	2.222345463
NRAS	483.1820208	1154.288708	273.3484919
PGK1P2	0	4.149132667	14.44524551
ENSG0000	0	1.659653067	2.222345463
ENSG0000	0	0	3.333518194
HNRNPA3	30.81798766	90.45109214	8.889381852
ENSG0000	0	0	3.333518194
HNRNPCP	6.603854498	3.319306133	0
CYCSP19	0	0.829826533	0
RPL7AP34	0	0	1.111172731
LTC4S	0	0	3.333518194
RPS7P11	0	2.4894796	0
ENSG0000	0	0	3.333518194
CLNS1AP1	2.201284833	0	0
ANKRD39	19.81156349	18.25618373	30.00166375
ATF4P1	1.100642416	0	0
QTRT1	165.0963624	90.45109214	374.4652105
CHUK	289.4689555	509.5134915	390.0216287
RPL21P18	1.100642416	0	0
PCNPP3	1.100642416	0	1.111172731
MXD3	84.74946605	341.8885317	206.678128
GAPDHP4	0	0	3.333518194
CNN2P8	0	2.4894796	0
RPL36P12	0	0.829826533	0
FTH1P12	1.100642416	0.829826533	6.667036389

RPS3P6	2.201284833	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
GSTM2	331.2933673	17.4263572	75.55974574
ST13P11	3.301927249	2.4894796	0
NAP1L1P3	2.201284833	0	0
LINC0067	0	1.659653067	0
COG8	146.3854414	134.4318984	234.4574463
PP1P	1.100642416	1.659653067	0
RPL7AP39	0	3.319306133	0
ENSG0000	0	2.4894796	5.555863657
ARHGAP1	14.30835141	56.42820427	26.66814555
HAUS7	8.80513933	4.9789592	0
LCAT	172.8008594	35.68254093	124.4513459
RPS2P17	1.100642416	1.659653067	0
MAGEA12	3.301927249	6.638612267	2.222345463
CISD1P1	0	0	3.333518194
ANXA2P1	0	0	1.111172731
C1QBPP2	0	0.829826533	4.444690926
HNRNPA1	1.100642416	4.9789592	0
PVRIG	1.100642416	0	0
ENSG0000	1.100642416	0	2.222345463
GPC2	18.71092108	150.1986025	52.22511838
RPL7AP17	1.100642416	0	0
KRT222	1.100642416	1.659653067	0
HSPD1P1	14.30835141	19.08601027	3.333518194
ABRAXAS	1.100642416	0	0
RPL17P34	1.100642416	0	1.111172731
RPLP1P6	1.100642416	0.829826533	0
VTI1BP2	0	0	1.111172731
ATP6V0CI	2.201284833	0	0
YBX2P1	0	0	2.222345463
OR5AC1	2.201284833	2.4894796	16.66759097
RPL18AP3	63.83726015	24.06496947	41.11339106
SIPA1	254.2483982	95.43005134	252.23621
FTH1P3	3.301927249	0.829826533	0
PPIAP82	0	0	1.111172731
RPL32P15	0	1.659653067	0
ERV3-1	1001.584599	996.6216666	1538.974233
SYNJ2BP	143.0835141	281.3111948	26.66814555
ARL2	81.44753881	75.51421454	130.0072096
HMGB1P3	1.100642416	0	0
FIRRE	2.201284833	0	3.333518194
EIF4A1P8	0	0.829826533	0
FBLIM1P1	1.100642416	0	0

NT5C3AP1	9.905781747	8.298265334	7.77820912
ACTN4P1	1.100642416	2.4894796	11.11172731
LAP3P2	4.402569665	9.128091867	22.22345463
PPIAP16	2.201284833	0	4.444690926
GBP7	7.704496914	0	11.11172731
ENSG0000	26.41541799	9.128091867	7.77820912
RBMXL1	231.1349074	248.1181335	218.9010281
RPL36P7	1.100642416	1.659653067	0
RAC1P5	1.100642416	0	0
SRA1	127.6745203	148.5389495	234.4574463
SETP8	1.100642416	0.829826533	3.333518194
RPL32P22	0	0	1.111172731
MTHFD2P	0	0	1.111172731
STIMATE	9.905781747	7.4684388	12.22290005
YBX1P6	5.503212081	3.319306133	1.111172731
TXN2P1	6.603854498	9.9579184	3.333518194
RPL7AP43	1.100642416	0	0
VN1R64P	1.100642416	0	2.222345463
DNAJC9	166.1970049	1029.814728	173.3429461
RPLP0P6	75.94432672	48.95976547	140.0077642
HNRNPA1	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	1.111172731
C8orf82	140.8822293	253.9269192	334.4629922
HNRNPA1	1.100642416	0	0
GTF3C6P2	3.301927249	14.9368776	0
LDHAP5	2.201284833	0	4.444690926
RPL29P5	1.100642416	0	1.111172731
VDAC1	350.0042884	570.0908284	281.1267011
ENSG0000	2.201284833	0	3.333518194
ENSG0000	3.301927249	4.9789592	1.111172731
PPIAP42	0	1.659653067	2.222345463
TMX2	714.3169282	783.3562475	373.3540378
ENSG0000	1.100642416	0.829826533	0
KRT18P19	5.503212081	3.319306133	1.111172731
AKR1B10I	0	0.829826533	10.00055458
SLC25A14	6.603854498	2.4894796	2.222345463
RPL7AP50	0	0	4.444690926
FAM220CI	0	0.829826533	2.222345463
HEXA	588.8436927	417.4027463	742.2633846
NDUFS3	1.100642416	0	0
RPSAP54	0	2.4894796	0
LEPROT	291.6702403	478.8099098	347.7970649
LBH	1179.88867	70.53525534	236.6797918
BOLA3P3	0	0.829826533	0

ADAT3	28.61670282	48.95976547	123.3401732
PPP1CB	2105.528942	3638.789349	1905.661234
EEF1DP4	2.201284833	0	0
ENSG0000	2.201284833	1.659653067	0
SAPCD2P1	1.100642416	0	0
ENSG0000	0	8.298265334	6.667036389
HMGB3P3	1.100642416	0	0
GPSM3	1.100642416	3.319306133	0
LAT	3.301927249	2.4894796	1.111172731
RSU1P3	1.100642416	0.829826533	0
PGGT1BP1	1.100642416	0.829826533	15.55641824
RPL21P86	2.201284833	0	0
OLA1P2	0	0.829826533	0
NCKIPSD	296.07281	234.8409089	295.5719466
ATF6B	28.61670282	32.3632348	48.89160018
ENSG0000	0	0.829826533	0
LDHBP2	1.100642416	17.4263572	5.555863657
ENSG0000	0	0	3.333518194
SEC14L1P	29.71734524	9.9579184	14.44524551
S1PR3	290.5695979	158.4968679	218.9010281
SLC35F6	231.1349074	180.0723577	400.0221833
RPL17P50	17.61027866	5.808785734	5.555863657
SETP22	1.100642416	0.829826533	1.111172731
RPL13AP9	0	0.829826533	0
RHOG2P	0	0.829826533	0
HMGB1P1	2.201284833	2.4894796	0
PHB1P7	1.100642416	1.659653067	0
PIGCP1	0	0.829826533	6.667036389
FAM209B	1.100642416	1.659653067	0
DDAH2	4.402569665	10.78774493	252.23621
ENSG0000	0	0.829826533	1.111172731
POLD2P1	1.100642416	4.149132667	0
RAB5CP1	0	1.659653067	0
ANAPC10	7.704496914	4.149132667	1.111172731
BRI3P2	1.100642416	0	0
SERBP1P1	35.22055732	43.98080627	17.7787637
RPS29	326.8907976	619.8804204	350.0194104
ZNF337-A	272.9593192	95.43005134	394.4663197
ENSG0000	2.201284833	0	0
CENPBD2	16.50963624	43.15097974	4.444690926
KPNA4P1	1.100642416	0.829826533	0
RPL29P15	2.201284833	0	0
RPS3AP20	1.100642416	1.659653067	0
UGT2B11	14.30835141	56.42820427	36.66870014

MT1P1	4.402569665	0	0
ZNF134	429.2505424	494.5766139	440.0244016
ACTBP2	37.42184215	39.00184707	23.33462736
KRT8P37	0	0.829826533	0
EIF1P7	1.100642416	0	3.333518194
HNRNPA1	2.201284833	0	1.111172731
DDX47	11.00642416	9.9579184	5.555863657
RPL35P4	0	0	1.111172731
AKR1B1P1	1.100642416	2.4894796	6.667036389
RPL7AP38	0	0	1.111172731
ENSG0000	0	0.829826533	4.444690926
ZNF888	829.8843819	348.527144	310.0171921
ZNF845	407.237694	838.9546252	246.6803464
ZNF321P	8.80513933	4.149132667	2.222345463
KLRK1	2.201284833	0	1.111172731
CEACAM1	2.201284833	2.4894796	0
TMX2P1	44.02569665	100.4090105	17.7787637
EMP2	326.8907976	1051.390218	127.7848641
CNN2P6	1.100642416	0	0
VDAC1P2	0	0.829826533	0
ACTBP15	0	1.659653067	0
RPL21P75	16.50963624	9.128091867	3.333518194
RPL7AP62	12.10706658	14.10705107	6.667036389
EEF1B2P2	5.503212081	2.4894796	0
YBX1P10	30.81798766	39.00184707	10.00055458
TAF9BP1	3.301927249	0	8.889381852
RPL32P11	1.100642416	0	0
PPIAP86	1.100642416	0	0
RPL7AP64	1.100642416	0	0
NPM1P6	1.100642416	0	1.111172731
RPL13AP7	2.201284833	3.319306133	2.222345463
LINC0152	1.100642416	4.9789592	0
PPM1N	5.503212081	20.74566333	2.222345463
RPL3P6	0	0	3.333518194
CEACAM1	2.201284833	2.4894796	11.11172731
SLC23A3	6.603854498	8.298265334	11.11172731
LTB4R	1.100642416	0	1.111172731
LIPE-AS1	31.91863007	92.1107452	36.66870014
LTB4R2	0	0.829826533	0
CYP2A7P1	0	0	2.222345463
DNASE1	239.9400468	170.1144393	407.8003924
CSNK1E	160.6937928	143.5599903	121.1178277
NPM1P33	0	0	1.111172731
IRF9	3.301927249	0	0

GALT	16.50963624	8.298265334	33.33518194
HBG1	0	2.4894796	0
RPL22P16	1.100642416	0	0
CLDN9	0	5.808785734	0
SEPHS1P6	2.201284833	0.829826533	6.667036389
RPL31P10	4.402569665	2.4894796	0
KRT18P17	1.100642416	0.829826533	2.222345463
DNAJB1P1	1.100642416	1.659653067	1.111172731
ITGA1	3741.083573	536.0679406	353.3529286
RPS10P2	1.100642416	2.4894796	1.111172731
ENSG0000	3.301927249	0	0
KRT18P29	0	0	1.111172731
ENSG0000	0	2.4894796	0
API5P2	38.52248457	0.829826533	14.44524551
ENSG0000	14.30835141	30.70358173	1.111172731
CHCHD4P	1.100642416	1.659653067	0
NUDT19	137.580302	120.3248473	200.0110917
ZNF726	44.02569665	305.3761643	64.44801842
ENSG0000	0	0.829826533	2.222345463
ZNF99	19.81156349	166.7951332	34.44635467
TAX1BP3	4.402569665	5.808785734	6.667036389
ENSG0000	0	1.659653067	1.111172731
AP1G2	530.5096447	559.3030835	1222.290005
ENSG0000	16.50963624	16.59653067	17.7787637
ZNF90	37.42184215	6.638612267	32.22400921
ENSG0000	0	0.829826533	0
NAXD	146.3854414	132.7722453	327.7959558
TM6SF2	2.201284833	4.149132667	0
PGAM1P7	3.301927249	0.829826533	1.111172731
MEF2B	0	0.829826533	0
KRT18P38	0	0	1.111172731
GANC	419.3447606	157.6670413	374.4652105
RPSAP61	1.100642416	0	1.111172731
RRM2P3	5.503212081	5.808785734	2.222345463
RBM39P1	2.201284833	1.659653067	0
TTLL3	222.3297681	243.1391743	178.8988098
REPIN1	869.5075089	424.8711851	837.8242395
ATP5PBP4	0	0.829826533	0
MRPL23	1.100642416	1.659653067	1.111172731
ARPC3P5	0	0.829826533	0
ZNF891	407.237694	626.5190327	446.691438
LINC02418	0	0.829826533	0
PGAM1P4	1.100642416	0	0
IFNA7	2.201284833	0	0

LINC0234	1.100642416	0	0
SMIM7	61.63597531	103.7283167	55.55863657
RPS11P7	0	0	1.111172731
UCA1	1.100642416	0	0
FBXO16	149.6873686	156.8372148	60.0033275
ARF4P3	0	0	1.111172731
TSPAN4	102.3597447	93.77039827	287.7937374
ENSG0000	0	3.319306133	0
MANEALI	1.100642416	0.829826533	1.111172731
RPL21P17	1.100642416	0.829826533	0
GNAQP1	7.704496914	19.9158368	18.88993643
CPNE1	677.9957284	887.9143907	1621.201015
ARL16	117.7687385	242.3093477	162.2312188
ENSG0000	0	0.829826533	0
SMCO1	0	0.829826533	0
WEE2	0	0	3.333518194
PAXIP1-A	96.85653263	14.10705107	48.89160018
MAGEB1	0	0	3.333518194
TPT1P5	6.603854498	0.829826533	5.555863657
PAFAH1B	1.100642416	0.829826533	2.222345463
LYRM4	172.8008594	404.1255217	137.7854187
MYCBP	6.603854498	44.8106328	1.111172731
PRDX1P1	1.100642416	0	5.555863657
SNRPEP9	0	0.829826533	0
ENSG0000	1.100642416	0	0
TMEM213	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
PRCD	1.100642416	1.659653067	1.111172731
ACTN4P2	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	1.111172731
LINC0088	0	1.659653067	2.222345463
LINC0202	0	2.4894796	0
ENAHP1	0	0	12.22290005
ALG3	377.5203488	408.2746544	576.6986476
AMZ2P1	5.503212081	9.128091867	0
PPIAP23	2.201284833	0	4.444690926
PTMAP5	5.503212081	25.72462253	5.555863657
GCC2-AS1	14.30835141	1.659653067	8.889381852
XPOTP1	26.41541799	11.61757147	15.55641824
ST7-OT4	7.704496914	8.298265334	1.111172731
ZNF788P	0	0.829826533	0
RNF152P1	9.905781747	0.829826533	11.11172731
UBE2V1P2	105.661672	79.6633472	54.44746384
SH3D21	178.3040714	200.8180211	346.6858922

SMIM30	7.704496914	32.3632348	1.111172731
TTC41P	6.603854498	16.59653067	0
EEF1A1P1	1.100642416	0.829826533	3.333518194
TPM3P2	0	0	1.111172731
RPS4XP1	4.402569665	1.659653067	0
HNRNPA1	2.201284833	0.829826533	1.111172731
NGRNP1	1.100642416	0	0
CTAGE14	0	1.659653067	7.77820912
C19orf38	8.80513933	5.808785734	36.66870014
IQCJ	1.100642416	0	0
TUBBP2	0	1.659653067	2.222345463
HNRNPA1	27.51606041	17.4263572	8.889381852
C17orf67	40.7237694	14.9368776	18.88993643
MINDY4B	0	0.829826533	0
SETP21	12.10706658	0.829826533	1.111172731
ENSG0000	17.61027866	20.74566333	38.8910456
CTAGE11	1.100642416	0.829826533	0
AZGP1P2	1.100642416	0	0
FIS1	560.2269899	242.3093477	428.9126743
ANKRD36	1.100642416	0	0
RPSAP53	0	0.829826533	0
KCTD9P4	2.201284833	2.4894796	5.555863657
LGMNP1	5.503212081	4.149132667	24.44580009
AGGF1P1	0	3.319306133	0
ANG	18.71092108	18.25618373	13.33407278
ENSG0000	1.100642416	0	0
SCART1	7.704496914	41.49132667	7.77820912
DTWD1P1	1.100642416	0	0
KRT8P14	0	0	2.222345463
NPS	0	1.659653067	0
PDCL3P3	1.100642416	0.829826533	0
HMGB3P1	0	3.319306133	0
RPL39P5	3.301927249	0	0
POU2AF3	103.4603871	164.3056536	75.55974574
APTR	24.21413316	23.23514293	1.111172731
FOXO1B	0	0.829826533	2.222345463
MRPS21P6	0	0.829826533	0
SPDYE3	0	3.319306133	3.333518194
MBLAC1	25.31477557	14.9368776	26.66814555
ATP5MC1	0	1.659653067	0
CXADRP1	1.100642416	0	0
CBX1P4	1.100642416	0	0
CBX1P2	0	2.4894796	4.444690926
PRR23E	0	0	1.111172731

SLC9B1P2	4.402569665	0	0
ABCD1P5	0	0.829826533	0
PDPR2P	0	4.149132667	0
CTAGE16I	1.100642416	0	0
FOXI3	1.100642416	1.659653067	12.22290005
SOGA3	1.100642416	12.447398	0
ATP5PBP2	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
VAC14-AS	2.201284833	0	0
PAFAH1B	1.100642416	0	0
NEURL1B	110.0642416	1126.074606	35.55752741
RPL18P10	1.100642416	0	0
EFCAB9	0	0.829826533	6.667036389
RPS3AP36	3.301927249	0	0
EIF4EP5	1.100642416	0	0
HAUS3	11.00642416	19.08601027	4.444690926
CYB5AP2	0	4.149132667	0
VSTM5	1.100642416	6.638612267	8.889381852
NFYBP1	1.100642416	2.4894796	3.333518194
LINC0048	0	0.829826533	0
RPS3AP26	44.02569665	39.8316736	18.88993643
LCNL1	4.402569665	3.319306133	47.78042745
BBIP1	335.695937	723.6087371	182.232328
TRIM77	5.503212081	3.319306133	4.444690926
GNAT3	12.10706658	19.08601027	7.77820912
FAM149B	2.201284833	9.9579184	23.33462736
NPM1P10	0	2.4894796	0
VPS33B-D	0	3.319306133	1.111172731
GOLGA2P	6.603854498	9.128091867	0
AS3MT	0	0.829826533	4.444690926
RCN1P2	18.71092108	8.298265334	30.00166375
PLIN5	25.31477557	7.4684388	116.6731368
SMARCE1	0	1.659653067	0
RPL7P1	101.2591023	144.3898168	50.00277291
SEC14L6	2.201284833	1.659653067	60.0033275
SPINK13	5.503212081	1.659653067	5.555863657
NOTO	2.201284833	0	0
PPME1	843.0920909	1755.083118	1167.842541
ENSG0000	0	0	4.444690926
STARD10	620.7623228	682.947237	821.1566485
ZNF705EP	4.402569665	8.298265334	7.77820912
RPS15AP1	0	0.829826533	1.111172731
RPS4XP3	0	0.829826533	0
GTF2IRD2	2.201284833	0	0

ENSG0000	1.100642416	0	0
MEG3	118.869381	271.3532764	8.889381852
COPS8P2	12.10706658	34.8527144	25.55697282
LRRC37A	0	2.4894796	0
ZC3H11C	27.51606041	19.08601027	58.89215477
ENSG0000	1.100642416	1.659653067	1.111172731
RPL21P41	0	0.829826533	0
RBBP4P4	2.201284833	6.638612267	0
NUTM2D	55.03212081	19.08601027	58.89215477
GAPDHP1	0	0	1.111172731
CPEB1	6.603854498	0.829826533	0
HMGN2P1	13.207709	2.4894796	3.333518194
PGGT1BP	1.100642416	4.9789592	4.444690926
ENSG0000	0	0	1.111172731
EML6	102.3597447	405.7851748	137.7854187
CTBP2P5	0	0	2.222345463
RPS19P1	0	0	2.222345463
POLR3DP	4.402569665	0	0
RPSAP6	4.402569665	0	0
DEFB113	6.603854498	2.4894796	0
ENSG0000	0	1.659653067	0
ZNF727	84.74946605	193.3495823	166.6759097
HNRNPA3	3.301927249	3.319306133	0
B3GALT9	7.704496914	52.2790716	2.222345463
ZSWIM8	1625.648849	1214.036218	5264.736402
KRT8P26	0	0	1.111172731
RPL6P12	1.100642416	0.829826533	0
RPL9P16	0	0.829826533	0
IQCF5	0	0.829826533	0
IQCF6	0	0.829826533	0
C10orf105	2.201284833	3.319306133	8.889381852
LINC0191	1.100642416	0.829826533	0
ARHGEF3	56.13276323	21.57548987	55.55863657
C12orf71	0	1.659653067	8.889381852
IFRD2	172.8008594	141.0705107	224.4568918
ENSG0000	1.100642416	3.319306133	0
CAPN14	16.50963624	19.08601027	85.56030032
ENSG0000	8.80513933	12.447398	2.222345463
CDIPTOSI	0	0.829826533	0
RPL5P35	1.100642416	0	0
MRPS5P3	0	0	1.111172731
GOT2P6	3.301927249	4.149132667	0
HNRNPUL	99.05781747	172.6039189	28.89049102
SRSF8CP	2.201284833	2.4894796	0

CSKMT	15.40899383	24.894796	52.22511838
RPL21P1	1.100642416	0	1.111172731
HNRNPA1	0	0.829826533	1.111172731
ENSG0000	3.301927249	2.4894796	0
ENSG0000	2.201284833	9.128091867	0
ENSG0000	14.30835141	88.79143907	60.0033275
MS4A18	3.301927249	3.319306133	13.33407278
POLR2J4	57.23340565	24.06496947	31.11283648
RPS3AP21	6.603854498	0.829826533	1.111172731
MS4A4E	165.0963624	40.66150013	26.66814555
KRT18P42	1.100642416	0	0
TUBA5P	5.503212081	7.4684388	0
ENSG0000	0	2.4894796	0
NPM1P31	0	1.659653067	0
CYCSP55	0	0.829826533	0
ARL8BP2	0	0	1.111172731
FER1L6	24.21413316	49.789592	86.67147305
CDRT15L2	2.201284833	0.829826533	0
MPRIPP1	0	2.4894796	0
HMGB1P4	1.100642416	0.829826533	1.111172731
DDX12P	33.01927249	186.71097	97.78320037
MTCP1	2.201284833	2.4894796	8.889381852
UPF3AP2	5.503212081	0	2.222345463
RPL23AP6	1.100642416	0	0
RAD51AP2	27.51606041	5.808785734	32.22400921
LINC00612	3.301927249	0.829826533	0
SEM1P1	0	0.829826533	0
DCDC2C	14.30835141	14.10705107	36.66870014
SRSF9P1	0	0.829826533	0
TPM3P4	2.201284833	0	0
LINC02981	5.503212081	3.319306133	2.222345463
SMTNL1	0	1.659653067	13.33407278
TMEM14D	0	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
TRIM64C	1.100642416	0	2.222345463
RPSAP55	0	0.829826533	0
PNMA6E	1.100642416	0.829826533	3.333518194
LINC01588	4.402569665	19.9158368	3.333518194
RPS15AP3	0	0	1.111172731
DUTP8	2.201284833	0	0
ENSG0000	0	0	2.222345463
RPL23AP3	2.201284833	4.9789592	0
ENSG0000	1.100642416	2.4894796	0

SPATA31I	8.80513933	4.149132667	50.00277291
NPIPA8	3.301927249	4.149132667	1.111172731
ZSWIM7	89.15203572	146.0494699	105.5614095
GPR33	3.301927249	1.659653067	0
ARHGEF2	233.3361923	150.1986025	368.9093468
TBC1D26	0	1.659653067	0
LRRC69	52.83083598	97.0897044	48.89160018
ENSG0000	0	1.659653067	0
CRPPA	93.55460539	14.9368776	22.22345463
NT5DC1P2	2.201284833	3.319306133	1.111172731
NPIPA7	97.95717505	165.9653067	101.1167186
CHCHD3P	1.100642416	6.638612267	12.22290005
PPIAP29	18.71092108	27.3842756	7.77820912
GSG1L2	2.201284833	3.319306133	15.55641824
ENSG0000	2.201284833	0	0
RPL7AP26	3.301927249	1.659653067	0
AKAP17B	0	1.659653067	0
CCNB2P1	0	0	1.111172731
ENSG0000	14.30835141	15.76670413	62.22567296
MESTP4	0	2.4894796	4.444690926
HSPD1P7	0	0.829826533	0
DNAJA1P2	1.100642416	0.829826533	0
ACSM4	4.402569665	2.4894796	37.77987287
RTL10	195.9143501	111.1967555	234.4574463
ENSG0000	3.301927249	0.829826533	0
RPL24P7	0	0	2.222345463
COL28A1	947.6531204	9.128091867	177.787637
PHB2	774.8522611	806.5913904	824.4901667
ENSG0000	36.32119974	44.8106328	47.78042745
RPL13P12	25.31477557	6.638612267	25.55697282
DSTNP4	1.100642416	0	0
CD27-AS1	86.95075089	47.3001124	23.33462736
NEURL4	0	0.829826533	0
GLULP6	0	0.829826533	0
GRID2IP	31.91863007	24.06496947	73.33740027
PKMP5	0	0	8.889381852
DUSP8P1	0	0.829826533	0
ALOX12-A	61.63597531	85.47213294	74.44857301
ANXA2R-2	7.704496914	7.4684388	2.222345463
XRCC6P5	1.100642416	0	0
KRT18P11	0	1.659653067	1.111172731
EEF1A1P2	0	0.829826533	0
IFITM8P	0	0	1.111172731
ENSG0000	0	2.4894796	0

TERF1P4	4.402569665	0.829826533	0
TTC3P1	125.4732355	317.8235623	702.2611663
UGT2B25I	2.201284833	2.4894796	16.66759097
UBXN2B	461.1691724	668.0103594	277.7931829
ZNG1F	122.1713082	90.45109214	51.11394565
SYT14P1	1.100642416	0.829826533	2.222345463
C16orf90	3.301927249	0	0
PRSS41	2.201284833	0.829826533	4.444690926
ENSG0000	0	0	6.667036389
LINC0026	0	1.659653067	0
TCEA1P3	0	0.829826533	0
ATXN7L3	0	1.659653067	0
NLRP2B	1.100642416	0.829826533	1.111172731
IGLV8OR8	0	0	1.111172731
MAPK6P4	2.201284833	0	0
MUC5AC	0	0.829826533	0
MSMP	1.100642416	5.808785734	0
RPS12P16	2.201284833	16.59653067	1.111172731
GOLGA6B	2.201284833	2.4894796	6.667036389
FAM166B	18.71092108	29.04392867	28.89049102
PEX26	123.2719506	136.0915515	32.22400921
BASP1-AS	3.301927249	1.659653067	6.667036389
ENSG0000	0	3.319306133	6.667036389
YWHAZP6	3.301927249	0	0
GRXCR1	1.100642416	0.829826533	10.00055458
RBMXP2	3.301927249	16.59653067	32.22400921
CFAP90	37.42184215	11.61757147	7.77820912
UBE2QL1	1.100642416	2.4894796	0
CYP51A1P	1.100642416	0.829826533	0
LINC0102(	1.100642416	1.659653067	0
ENSG0000	4.402569665	0	0
LINC0244	11.00642416	1.659653067	8.889381852
LINC0264	12.10706658	14.9368776	1.111172731
LINC0298	1.100642416	0	0
FASTKD5	575.6359837	755.1421454	371.1316923
GOLGA8B	82.54818122	53.10889814	130.0072096
DHRS4-AS	1.100642416	3.319306133	2.222345463
KCNU1	26.41541799	8.298265334	86.67147305
ENSG0000	0	0.829826533	0
RPL10AP3	1.100642416	0	0
ENSG0000	1.100642416	0	4.444690926
GAGE12G	0	0	10.00055458
TOMM40P	0	3.319306133	0
GAGE10	0	0	5.555863657

RNF212B	4.402569665	8.298265334	34.44635467
HMGB3P2	0	0.829826533	2.222345463
CHMP5P1	12.10706658	1.659653067	0
SRSF6P1	2.201284833	0	0
ENSG0000	2.201284833	0.829826533	1.111172731
TMCO5B	3.301927249	0	0
ENSG0000	2.201284833	1.659653067	0
DDX3X	4022.848032	6406.260838	3973.553688
WHAMMI	1.100642416	0	0
VPS16	592.14562	315.3340827	633.3684569
EIF5P1	2.201284833	0.829826533	0
GPX1P2	0	0	1.111172731
ZNF705CP	1.100642416	0	0
SLC25A5P	0	0	3.333518194
MRPL3P1	26.41541799	29.8737552	24.44580009
PPIAP1	0	0	2.222345463
FAM90A2	0	0.829826533	0
ZNF705G	1.100642416	0.829826533	0
FAM66B	1.100642416	0	1.111172731
MYL5	19.81156349	22.4053164	65.55919115
ENSG0000	0	0	5.555863657
MIR99AH	402.8351244	48.12993894	111.1172731
ACTG1P3	4.402569665	0	0
SCRT2	8.80513933	8.298265334	0
PSMA6P1	16.50963624	51.44924507	43.33573653
MIR17HG	13.207709	45.64045934	2.222345463
ZNF407	2035.087828	2112.738354	1228.957041
MCM3AP-	45.12633907	121.1546739	77.7820912
NPEPL1	22.01284833	18.25618373	36.66870014
CTAGE12	0	4.149132667	6.667036389
ZNF663P	1.100642416	2.4894796	0
KRTAP10-	4.402569665	1.659653067	0
KRTAP10-	1.100642416	6.638612267	0
BCRP4	0	0.829826533	3.333518194
AATBC	3.301927249	29.04392867	0
RPL27AP	0	1.659653067	0
SKOR2	8.80513933	5.808785734	3.333518194
SIAH3	0	0.829826533	3.333518194
RCN1P1	0	0	1.111172731
OR7E37P	0	1.659653067	0
BCRP3	2.201284833	7.4684388	0
CALM2P3	2.201284833	4.9789592	6.667036389
LINC0059	2.201284833	4.9789592	2.222345463
ARL2BPP	0	0	1.111172731

HNRNPA1	70.44111464	77.1738676	31.11283648
ENSG0000	0	0	7.77820912
FAM230B	0	2.4894796	0
TPTE2P4	1.100642416	0	0
IFIT1P1	2.201284833	0.829826533	10.00055458
EFCAB8	24.21413316	25.72462253	45.55808199
DEFB116	1.100642416	0	0
DKKL1P1	0	0	5.555863657
DEFB115	1.100642416	0.829826533	0
FRG1JP	22.01284833	14.10705107	5.555863657
KRT18P3	2.201284833	0.829826533	0
ANKRD20	1.100642416	1.659653067	2.222345463
GAB4	2.201284833	1.659653067	11.11172731
GRK6P1	4.402569665	4.9789592	8.889381852
ESRRAP1	5.503212081	1.659653067	0
KANK1P1	0	0	1.111172731
C20orf202	1.100642416	0.829826533	2.222345463
ZNF962P	1.100642416	0	0
HMX1	1.100642416	0	0
GUSBP9	5.503212081	2.4894796	3.333518194
ENSG0000	2.201284833	0.829826533	0
RSC1A1	1.100642416	1.659653067	0
CELA2B	2.201284833	2.4894796	10.00055458
TMEM242	122.1713082	221.5636844	107.7837549
TMEM167	169.4989321	220.7338579	193.3440553
MFFP1	0	2.4894796	0
ARHGAP2	9.905781747	8.298265334	16.66759097
LRRC37A1	4.402569665	4.149132667	0
FAM72D	13.207709	167.6249597	0
CFL1P6	1.100642416	0	1.111172731
TNFRSF25	28.61670282	96.25987787	112.2284459
ENSG0000	3.301927249	4.9789592	5.555863657
RFKP1	0	2.4894796	0
LINC01139	1.100642416	2.4894796	2.222345463
ZC3H11B	81.44753881	68.87560227	100.0055458
KRT18P12	0	0	2.222345463
QRSL1P1	1.100642416	0	0
FMO9P	0	0.829826533	0
ENSG0000	18.71092108	4.9789592	24.44580009
ENSG0000	4.402569665	0.829826533	0
TSTD1	139.7815869	370.1026339	431.1350198
RPTN	7.704496914	4.9789592	26.66814555
ENSG0000	1.100642416	0.829826533	0
NBPF7P	5.503212081	3.319306133	3.333518194

ENSG0000	28.61670282	0	10.00055458
ENSG0000	1.100642416	0	1.111172731
FEN1P1	0	0	2.222345463
ST13P20	1.100642416	1.659653067	2.222345463
MARCKSI	0	1.659653067	0
CYB5RL	30.81798766	26.55444907	28.89049102
ZNF859P	2.201284833	0	4.444690926
RPL23AP1	0	0.829826533	0
HSPA5P1	8.80513933	4.9789592	3.333518194
EEF1A1P4	0	0	2.222345463
LACTBL1	3.301927249	3.319306133	5.555863657
CROCCP2	4.402569665	0	0
BRWD1P1	1.100642416	0	0
C1orf167	6.603854498	6.638612267	42.22456379
TTC34	2.201284833	0	0
MMP23A	1.100642416	0	0
ATAD3C	8.80513933	10.78774493	60.0033275
MIR942	0	0.829826533	0
MIR873	1.100642416	0	0
MIR921	0	0.829826533	0
MIR938	3.301927249	4.9789592	0
MIR944	0	1.659653067	0
MIR513C	1.100642416	0	0
ENSG0000	8.80513933	8.298265334	3.333518194
ENSG0000	1.100642416	0	0
RPL13AP1	0	0.829826533	0
H1-12P	0	0.829826533	0
MRPL42P2	2.201284833	0	0
RPL12P2	0	0	3.333518194
PIMREGP2	2.201284833	0	5.555863657
RAET1M	0	0	1.111172731
ENSG0000	1.100642416	0	0
RPL21P69	1.100642416	2.4894796	3.333518194
IFI30	0	1.659653067	1.111172731
IGSF23	2.201284833	1.659653067	14.44524551
ENSG0000	6.603854498	4.9789592	7.77820912
ENSG0000	1.100642416	0	0
GLRX3P2	4.402569665	11.61757147	2.222345463
CIR1P3	2.201284833	0	0
RPL21P68	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
NUDT19P2	1.100642416	0	0
ANXA2P3	1.100642416	0	2.222345463
HMGA1P7	0	0.829826533	0

VN1R13P	0	0.829826533	0
ENSG0000	0	0.829826533	0
MTCH1P1	3.301927249	4.9789592	3.333518194
ENSG0000	2.201284833	0	0
ENSG0000	0	5.808785734	0
R3HDM2P	1.100642416	1.659653067	0
TUBB2BP	3.301927249	14.10705107	0
FGF7P4	1.100642416	0.829826533	0
RBMXP1	1.100642416	2.4894796	3.333518194
LY86-AS1	3.301927249	1.659653067	0
RPS2P55	4.402569665	4.149132667	2.222345463
RBM33-D	3.301927249	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
GPR89P	7.704496914	7.4684388	0
CCDC7	302.6766645	402.4658687	227.7904099
RPL7P58	1.100642416	0	2.222345463
RPL21P65	5.503212081	0	0
RPL10P1	1.100642416	2.4894796	3.333518194
TPT1P4	1.100642416	0	8.889381852
ENSG0000	1.100642416	0	0
PPIAP31	9.905781747	15.76670413	20.00110917
FNIP1	1583.824437	1000.770799	1154.508468
ENSG0000	26.41541799	43.15097974	38.8910456
ENSG0000	1.100642416	0	3.333518194
LARP1P1	13.207709	3.319306133	0
MTCO2P3	0	0.829826533	0
GSTA12P	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
SP9	6.603854498	7.4684388	54.44746384
ENSG0000	0	0.829826533	0
CBX3P9	4.402569665	29.04392867	4.444690926
POM121L4	0	0.829826533	3.333518194
ENSG0000	16.50963624	0	2.222345463
UQCRFS1	0	0.829826533	1.111172731
PRELID1P	1.100642416	0.829826533	1.111172731
TUBB4BP	0	0.829826533	0
RPL21P61	0	0.829826533	0
PSMC1P11	1.100642416	1.659653067	6.667036389
DDX18P3	3.301927249	0	0
ISCA1P1	5.503212081	9.9579184	2.222345463
SYCE3	2.201284833	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463

HMGB1P1	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	9.9579184	0
RPS16P5	1.100642416	9.9579184	0
IQCB2P	1.100642416	0.829826533	3.333518194
CKLF	11.00642416	14.9368776	1.111172731
ENSG0000	1.100642416	0	0
YWHAZP1	8.80513933	6.638612267	2.222345463
H2BC16P	0	2.4894796	0
PARLP2	12.10706658	5.808785734	7.77820912
ENSG0000	0	0.829826533	1.111172731
RPS10P3	9.905781747	22.4053164	11.11172731
CCT7P1	3.301927249	0	3.333518194
NDUFAB1	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
LDHAL6F	15.40899383	3.319306133	0
ASS1P9	1.100642416	0	1.111172731
OR4F7P	0	0	2.222345463
SEPTIN14	1.100642416	0	0
NOC2LP2	5.503212081	0.829826533	4.444690926
KRT19P1	0	1.659653067	0
RBM38-AS	2.201284833	3.319306133	3.333518194
THAP12P5	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	6.667036389
ENSG0000	0	0	3.333518194
ADAMTS7	0	0.829826533	3.333518194
RSL24D1P	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	20.91220591	35.68254093	3.333518194
SLC25A5P	0	0	1.111172731
ENSG0000	0	0.829826533	0
POM121L1	0	0.829826533	2.222345463
RPS27AP1	0	1.659653067	1.111172731
TATDN2P	1.100642416	0	0
RPS4XP7	0	0.829826533	0
ENSG0000	0	6.638612267	0
MORF4L1	369.8158519	355.1657563	86.67147305
CDC14C	3.301927249	1.659653067	11.11172731
TENM3	444.6595362	920.2776255	440.0244016
ENSG0000	0	0.829826533	0
HNRNPA1	1.100642416	0.829826533	1.111172731
LYPLA1P3	7.704496914	21.57548987	15.55641824
RPS3AP23	0	0.829826533	0
GPC1-AS1	6.603854498	0.829826533	0

ENSG0000	60.5353329	81.32300027	128.8960368
NDUFS5P1	0	0.829826533	1.111172731
ENSG0000	29.71734524	17.4263572	20.00110917
HNRNPA1	0	0	1.111172731
RPS27P15	1.100642416	0	0
ENSG0000	1.100642416	0	0
H2AZP3	0	0.829826533	0
LINC0033	12.10706658	27.3842756	2.222345463
ENSG0000	1.100642416	0	4.444690926
ENSG0000	0	0.829826533	0
OR4K12P	2.201284833	0	0
ENSG0000	0	0.829826533	1.111172731
HNRNPA1	3.301927249	0.829826533	0
GAPDHP6	0	0.829826533	0
ENSG0000	8.80513933	10.78774493	13.33407278
ENSG0000	11.00642416	22.4053164	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
RPL7P28	0	1.659653067	0
LINC0301(	2.201284833	0	2.222345463
BRD7P4	2.201284833	0	0
ENSG0000	5.503212081	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	2.222345463
ENSG0000	0	1.659653067	0
CEBPZOS	298.2740948	328.6113072	177.787637
RPL18AP8	2.201284833	0	0
FAM8A6P	0	0.829826533	0
HSPD1P16	1.100642416	1.659653067	4.444690926
GSTM2P1	1.100642416	0	0
ENSG0000	0	0.829826533	0
PAPOLB	7.704496914	8.298265334	44.44690926
ENSG0000	1.100642416	0	4.444690926
CNN3P1	0	0.829826533	0
ENSG0000	0	0	1.111172731
NUFIP1P1	11.00642416	9.128091867	6.667036389
ZNF579	61.63597531	108.7072759	135.5630732
IMPDH1P9	0	0	2.222345463
CCNG1P1	1.100642416	0	0
ARL4AP5	5.503212081	11.61757147	7.77820912
ENSG0000	1.100642416	0.829826533	0
RPS3AP2	0	1.659653067	0
ENSG0000	0	0.829826533	0
CELA3B	0	0.829826533	0

NPM1P37	1.100642416	2.4894796	0
HNRNPA3	5.503212081	16.59653067	5.555863657
RPL21P19	12.10706658	3.319306133	0
ENSG0000	2.201284833	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
CACYBPP	1.100642416	0	0
RNASEK	19.81156349	12.447398	33.33518194
ENSG0000	30.81798766	32.3632348	73.33740027
AMZ2P2	2.201284833	0	0
NPM1P38	2.201284833	0	0
OR2E1P	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
RPL31P52	0	0.829826533	0
ZNF299P	1.100642416	0	0
ENSG0000	0	0	1.111172731
ATF1P1	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	7.77820912
HSPA8P15	1.100642416	5.808785734	0
ENSG0000	3.301927249	2.4894796	7.77820912
ENSG0000	3.301927249	1.659653067	1.111172731
BTBD10P2	0	5.808785734	0
CATSPER1	0	0	1.111172731
TAFA5	47.3276239	9.128091867	14.44524551
ENSG0000	0	0	1.111172731
RPL23P8	3.301927249	0.829826533	0
ENSG0000	1.100642416	13.27722453	2.222345463
NBPF1	227.8329802	128.6231127	256.680901
ENSG0000	5.503212081	2.4894796	0
TPT1P8	1.100642416	0.829826533	0
ENSG0000	2.201284833	4.149132667	10.00055458
FTH1P8	14.30835141	25.72462253	25.55697282
ENSG0000	1.100642416	0	0
SELENOK	1.100642416	0	1.111172731
UMAD1	88.0513933	62.23699	65.55919115
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	5.555863657
ZPR1P1	0	5.808785734	6.667036389
HNRNPA1	1.100642416	0	3.333518194
PPP1R3G	19.81156349	4.9789592	7.77820912
HIGD1AP1	2.201284833	8.298265334	0
FAM228B	101.2591023	61.40716347	21.1122819
BMPR1AP	7.704496914	2.4894796	21.1122819

ZNF433-A	27.51606041	43.98080627	44.44690926
ENSG0000	14.30835141	4.9789592	5.555863657
MARK2P1	5.503212081	4.149132667	0
ENSG0000	1.100642416	0	0
RPL32P16	3.301927249	4.9789592	8.889381852
VN1R11P	1.100642416	0	0
OSTCP6	1.100642416	0	0
ARF1P1	2.201284833	0	0
ENSG0000	0	0.829826533	0
BRK1P1	1.100642416	0	0
RPL35P3	2.201284833	0.829826533	0
OR7E104P	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
SPTLC1P3	0	1.659653067	0
KRT18P50	0	0.829826533	0
BTF3P7	0	0.829826533	0
LINGO3	18.71092108	19.9158368	24.44580009
ENSG0000	0	0.829826533	0
LAP3P1	0	0.829826533	0
MTCYBP4	2.201284833	0	0
MRPL32P1	0	0	2.222345463
ENSG0000	0	6.638612267	0
HNRNPA1	1.100642416	1.659653067	8.889381852
ZGLP1	6.603854498	3.319306133	15.55641824
VAMP2	242.1413316	277.1620621	141.1189369
OR4F1P	0	0	13.33407278
ZNF402P	2.201284833	0	7.77820912
ACTBP8	0	0	3.333518194
HNRNPH1	41.82441182	19.9158368	5.555863657
PPIAP74	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
GSTA8P	0	0	1.111172731
PTPN11P3	1.100642416	0.829826533	1.111172731
TUBB3P1	2.201284833	0.829826533	0
ENSG0000	11.00642416	8.298265334	21.1122819
YAP1P1	6.603854498	0	0
PGAM1P1	2.201284833	0	0
ASS1P1	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
HMGB1P1	1.100642416	0	0
HTR5A-AS	0	3.319306133	0
RPL35P2	1.100642416	1.659653067	1.111172731
TUBBP9	2.201284833	0.829826533	3.333518194
ENSG0000	1.100642416	0.829826533	0

KRASP1	4.402569665	1.659653067	0
ENSG0000	0	1.659653067	0
RCC2P7	0	2.4894796	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	0	1.111172731
H3P27	0	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	0	1.659653067	0
RPL5P18	1.100642416	0	1.111172731
C11orf98P	0	0	2.222345463
ENSG0000	0	1.659653067	2.222345463
RPL21P28	8.80513933	4.149132667	1.111172731
BOLA2P3	0	3.319306133	0
RPL21P11	1.100642416	0	0
RPL21P16	26.41541799	8.298265334	16.66759097
RPS18P9	9.905781747	14.10705107	7.77820912
HSPE1P26	3.301927249	0	0
MRPL35P1	0	9.9579184	3.333518194
ENSG0000	0	0.829826533	0
IGBP1-AS2	0	0	8.889381852
HNRNPA1	3.301927249	0.829826533	5.555863657
ENSG0000	0	1.659653067	0
U3.4	0	1.659653067	0
RNU6ATA	1.100642416	0	0
ENSG0000	0	0.829826533	0
MIR1296	5.503212081	5.808785734	0
SNORD11	0	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
MIR1302-5	0	0.829826533	1.111172731
SNORA11	4.402569665	6.638612267	1.111172731
ENSG0000	0	4.149132667	0
RNU6ATA	1.100642416	5.808785734	0
MIR1305	0	2.4894796	0
MIR548L	1.100642416	3.319306133	0
SNORD88	0	1.659653067	0
ENSG0000	0	4.9789592	0
MIR548P	0	0.829826533	0
MIR1284	0	1.659653067	0
MIR548T	0	3.319306133	0
SNORA79	1.100642416	0	0
RNU6ATA	0	0.829826533	0
MIR1288	1.100642416	0	0
MIR1265	1.100642416	0	0
RNU6ATA	0	0.829826533	0

MIR320B2	1.100642416	4.149132667	0
RNU4ATA	4.402569665	4.149132667	0
MIR1301	0	1.659653067	0
MIR1271	0	0.829826533	1.111172731
MIR1251	0	0.829826533	2.222345463
SNORD10(	18.71092108	6.638612267	0
SNORD11	1.100642416	0.829826533	0
RNU6ATA	1.100642416	0.829826533	0
MIR1285-1	1.100642416	1.659653067	0
SNORD99	0	1.659653067	0
MIR1303	0	0.829826533	0
RNU6ATA	0	2.4894796	0
MIR1249	1.100642416	0	0
ENSG0000	5.503212081	1.659653067	0
MIR1276	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
SNORA77	0	0.829826533	2.222345463
MIR1290	0	0.829826533	0
RNU6ATA	0	4.149132667	0
MIR1278	1.100642416	0.829826533	0
MIR548H3	1.100642416	0	0
SNORA11	1.100642416	6.638612267	0
MIR548J	1.100642416	0	0
MIR1289-1	0	2.4894796	0
MIR1205	0	4.9789592	0
MIR548F2	0	2.4894796	0
MIR1183	1.100642416	3.319306133	0
MIR1252	0	1.659653067	0
MIR1282	0	0.829826533	0
MIR1256	1.100642416	0	0
PPP3CB-A	73.74304189	68.04577574	6.667036389
EBF2	9.905781747	15.76670413	83.33795486
C6orf226	11.00642416	43.98080627	62.22567296
PPP3R1	104.5610295	168.4547863	43.33573653
PSG3	2.201284833	7.4684388	34.44635467
FANCG	89.15203572	423.211532	217.7898554
KRTAP10-	1.100642416	0.829826533	12.22290005
AP4M1	41.82441182	76.34404107	95.5608549
OR4A5	5.503212081	0.829826533	10.00055458
C2orf16	23.11349074	9.9579184	66.67036389
LINC0290	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
KRTAP1-5	1.100642416	0	0
KRTAP10-	0	0.829826533	4.444690926

KRTAP12-	2.201284833	11.61757147	0
PLXNA4	221.2291257	121.9845004	1058.947613
MAGEA3	6.603854498	24.06496947	0
CEBPD	298.2740948	702.0332472	1306.739132
PSG7	2.201284833	8.298265334	52.22511838
MRPS21P3	0	1.659653067	0
OR3A2	2.201284833	2.4894796	0
ARIH2OS	18.71092108	14.10705107	22.22345463
FAM200C	166.1970049	398.316736	267.7926283
HMSD	3.301927249	11.61757147	0
OR1C1	3.301927249	0	4.444690926
NPTXR	156.2912231	108.7072759	78.89326393
FAM218B	0	0	2.222345463
POM121L1	0	0	5.555863657
FAM200A	344.5010763	97.91953094	130.0072096
PPP2R2A	515.1006508	637.3067776	374.4652105
C19orf73	2.201284833	23.23514293	20.00110917
ZNF880	920.13706	620.710247	642.2578388
TRIM16	64.93790256	107.8774493	185.5658462
DENND10	45.12633907	50.61941854	82.22678213
OR6X1	0	1.659653067	5.555863657
HEPN1	0	0	2.222345463
OR2A25	1.100642416	0	0
TAS2R40	3.301927249	0.829826533	0
TIGD1	101.2591023	120.3248473	61.11450023
FXYD7	1.100642416	0.829826533	0
XKR9	8.80513933	14.9368776	50.00277291
LINC0289	7.704496914	2.4894796	4.444690926
SLC12A8	151.8886534	53.93872467	97.78320037
APOL6	300.4753796	48.12993894	96.67202764
FADS3	205.8201318	169.2846128	577.8098203
TTC4P1	0	0	2.222345463
OR4E2	3.301927249	0.829826533	5.555863657
CCNL2	1101.743059	648.0945226	5161.397338
UBA52	711.0150009	1180.01333	1038.946504
MYBPHL	7.704496914	26.55444907	0
EXOC3-AS	3.301927249	8.298265334	2.222345463
ZNF630	190.411138	95.43005134	97.78320037
OR52B4	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0286	2.201284833	0.829826533	0
LINC0111	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
BTBD19	35.22055732	30.70358173	70.00388208

FAM185A	241.0406892	121.1546739	76.67091847
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	5.555863657
HDAC4-AS	0	4.149132667	0
PSMB11	3.301927249	0	0
LINC0179	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
LINC0112	1.100642416	5.808785734	1.111172731
KIAA2012	1.100642416	1.659653067	0
POTEM	71.54175706	6.638612267	8.889381852
POTEJ	162.8950776	4.9789592	21.1122819
CYTOR	22.01284833	58.91768387	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
DCDC2B	1.100642416	9.128091867	23.33462736
C10orf55	0	4.149132667	0
RNU4-62P	1.100642416	0	0
RN7SKP15	0	3.319306133	0
MIR1915	1.100642416	0	0
RN7SKP11	0	0.829826533	0
RN7SKP16	0	0.829826533	0
SNORA73.	0	1.659653067	0
RNU4-37P	2.201284833	0	0
RNA5SP23	0	0.829826533	0
RNA5SP15	0	0	1.111172731
RNA5SP12	1.100642416	0.829826533	0
RNU2-54P	0	5.808785734	0
RNU6-101	1.100642416	0	0
RNU6-757	2.201284833	0	0
RNU6-892	0	0.829826533	0
RNU6-115	0	0.829826533	0
RN7SKP13	0	1.659653067	0
SNORD19	1.100642416	0.829826533	0
RNU2-50P	0	4.149132667	0
Y_RNA.10	1.100642416	2.4894796	0
Y_RNA.10	1.100642416	0.829826533	0
RNU2-26P	0	0.829826533	0
RN7SKP56	1.100642416	1.659653067	0
RNU6-114	0	1.659653067	0
RNA5SP29	0	0.829826533	0
RNU6-121	0	0.829826533	0
Y_RNA.10	0	0	2.222345463
SNORA79	0	0.829826533	1.111172731
Y_RNA.10	1.100642416	1.659653067	0

RNU6-519	0	0.829826533	0
RNA5SP34	2.201284833	1.659653067	0
ENSG0000	1.100642416	0	0
RNU2-52P	1.100642416	0	0
RNU2-48P	0	0	1.111172731
RNU2-37P	1.100642416	2.4894796	0
RNU2-42P	0	0.829826533	0
RN7SKP38	0	0.829826533	0
RNU2-63P	0	1.659653067	0
RNU2-7P	1.100642416	0	0
RNA5SP25	0	0	2.222345463
RN7SKP10	1.100642416	89.6212656	0
RNU2-40P	1.100642416	0	0
Y_RNA.10	1.100642416	0	0
RN7SKP21	0	2.4894796	0
RNU2-62P	2.201284833	0.829826533	0
MIR1537	1.100642416	0	0
Y_RNA.10	1.100642416	0	0
RNU6-920	1.100642416	0.829826533	0
RNU6-132	1.100642416	0	0
Y_RNA.10	0	1.659653067	0
RN7SKP97	0	2.4894796	0
RNU6-564	1.100642416	0.829826533	0
RNA5SP29	0	0.829826533	0
RNA5SP10	0	1.659653067	0
RNU6-114	0	0.829826533	0
RNU6-172	0	1.659653067	1.111172731
RNU6-370	0	0.829826533	0
Y_RNA.11	0	0.829826533	0
RNA5SP18	0	0.829826533	0
RN7SKP13	1.100642416	1.659653067	0
RN7SKP26	1.100642416	1.659653067	0
RNA5SP34	0	2.4894796	0
RNU2-72P	0	0.829826533	0
RN7SKP29	0	1.659653067	0
RNA5SP45	0	2.4894796	0
RNU2-18P	1.100642416	0	0
RNU6-119	2.201284833	0.829826533	0
RNU2-22P	0	1.659653067	0
RNA5SP22	0	2.4894796	0
RNU6-607	1.100642416	0	0
RNU6-938	1.100642416	0	0
SNORD71	2.201284833	0.829826533	0
RNA5SP29	1.100642416	0	0

RNU2-64P	0	0.829826533	0
RN7SKP19	0	0.829826533	0
RN7SKP85	0	0.829826533	0
RN7SKP30	2.201284833	1.659653067	1.111172731
RNU2-71P	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.149132667	0
IGLV9-49	1.100642416	0	4.444690926
ZNF385D-	0	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
EHHADH-	0	1.659653067	0
FTH1P10	4.402569665	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
LINC02068	1.100642416	0.829826533	0
ENSG0000	6.603854498	0.829826533	4.444690926
CLDN10-A	0	0.829826533	0
ENSG0000	13.207709	0.829826533	0
TRBV29O	1.100642416	0	0
RPS10P7	7.704496914	19.08601027	14.44524551
ENSG0000	1.100642416	0	0
MEG9	2.201284833	0.829826533	1.111172731
RPS26P15	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
RBM7P1	2.201284833	0.829826533	3.333518194
ENSG0000	0	0.829826533	3.333518194
MTND6P2	1.100642416	6.638612267	0
ENSG0000	4.402569665	0	1.111172731
ENSG0000	6.603854498	5.808785734	22.22345463
TH2LCRR	2.201284833	0	0
USP17L2	1.100642416	0	0
ENSG0000	0	0.829826533	0
TCAF1P1	3.301927249	3.319306133	2.222345463
GAPDHP6	0	0	1.111172731
ENSG0000	1.100642416	0	0
LINC01825	0	1.659653067	1.111172731
VOPP1-DT	0	0.829826533	0
ZDHHC12	0	7.4684388	0
NUTM2A-	60.5353329	109.5371024	7.77820912
NEFHP1	0	0.829826533	7.77820912
EXOSC6	62.73661773	98.74935747	65.55919115
RNF14P4	2.201284833	0	2.222345463
VPS52	0	0.829826533	0
ENSG0000	0	0	2.222345463

RPL23AP5	2.201284833	7.4684388	4.444690926
CDRT15	0	0.829826533	0
ATP6V0E1	3.301927249	0.829826533	6.667036389
CSNK1A1	0	0.829826533	0
KIF28P	0	2.4894796	0
ENSG0000	0	0	2.222345463
RABGAP1	1.100642416	4.149132667	2.222345463
ENSG0000	0	2.4894796	24.44580009
ENSG0000	0	0.829826533	1.111172731
ZBTB24-D	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	5.555863657
LINC0063(	15.40899383	59.7475104	2.222345463
ZNF844	25.31477557	15.76670413	5.555863657
SNRPBP1	0	0.829826533	0
TMSB4XP	4.402569665	1.659653067	0
CCR5AS	2.201284833	0	0
SMPD4P1	0	0.829826533	1.111172731
TRIM60P1	0	0.829826533	0
ENSG0000	34.11991491	34.02288787	8.889381852
LINC0300	6.603854498	6.638612267	0
TNRC18P2	5.503212081	0.829826533	4.444690926
USP17L15	3.301927249	0	17.7787637
ENSG0000	0	0.829826533	0
CKMT1A	25.31477557	43.15097974	0
TINCR	5.503212081	46.47028587	2.222345463
RBMX2P3	3.301927249	3.319306133	3.333518194
RPL17P9	2.201284833	5.808785734	0
TVP23CP1	1.100642416	0	0
LINC0131	0	0.829826533	0
ENSG0000	1.100642416	0	0
EBLN1	4.402569665	4.149132667	16.66759097
ENSG0000	0	0.829826533	0
RPL17P13	0	1.659653067	0
HBD	7.704496914	7.4684388	22.22345463
SUPT20HI	3.301927249	2.4894796	0
ENSG0000	13.207709	24.894796	4.444690926
ZNF735	3.301927249	0	7.77820912
RBM48P1	3.301927249	0	2.222345463
AK4P4	1.100642416	0	0
GSTA6P	0	0	8.889381852
ENSG0000	0	0	2.222345463
NUP133-D	2.201284833	2.4894796	0
RFPL4A	0	3.319306133	41.11339106

ENSG0000	2.201284833	0.829826533	0
LINC0307	0	3.319306133	1.111172731
LINC0194	0	0.829826533	0
UHRF2P1	6.603854498	0	1.111172731
ENSG0000	3.301927249	0	0
PRDM6-A	1.100642416	0	0
BCL10-AS	2.201284833	1.659653067	0
C1GALT1	42.92505424	215.7548987	63.33684569
SAMSN1-	1.100642416	0	0
RPL34P26	1.100642416	0	0
IFNWP18	1.100642416	0	0
LINC0057	17.61027866	5.808785734	20.00110917
DIP2A-IT1	7.704496914	6.638612267	0
ADH5P3	1.100642416	0	1.111172731
ENSG0000	6.603854498	0.829826533	5.555863657
RAET1E-A	6.603854498	0	0
IGSF3P2	3.301927249	0.829826533	2.222345463
LINC0142	9.905781747	1.659653067	1.111172731
TRIM64EP	1.100642416	0	16.66759097
ENSG0000	1.100642416	1.659653067	0
LINC0260	0	0.829826533	0
LINC0120	2.201284833	6.638612267	0
ENSG0000	0	0.829826533	0
DNAJA1P	0	0.829826533	0
RPL15P11	2.201284833	3.319306133	2.222345463
YWHAQP	0	32.3632348	0
TFDP1P2	0	5.808785734	31.11283648
ENSG0000	2.201284833	4.9789592	0
ENSG0000	2.201284833	7.4684388	0
ENSG0000	2.201284833	0.829826533	2.222345463
LINC0224	0	0	1.111172731
SUPT20HI	2.201284833	1.659653067	5.555863657
RPL18AP1	1.100642416	0.829826533	0
LAPTM4A	2.201284833	1.659653067	0
HSP90AB5	0	0	1.111172731
PSMD4P1	0	0.829826533	0
CCDC18-A	79.24625397	74.684388	22.22345463
MIR503HC	0	5.808785734	0
SIRPB3P	2.201284833	0.829826533	3.333518194
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	0	0
LINC0259	6.603854498	0	0
LINC0020	45.12633907	87.96161254	7.77820912
CACNA2D	1.100642416	0	0

ENSG0000	9.905781747	11.61757147	15.55641824
LGALS8-A	1.100642416	0	0
RPL29P8	1.100642416	0	0
LINC0198	0	0.829826533	0
ENSG0000	3.301927249	2.4894796	0
UBE2E1-A	0	0.829826533	0
ENTPD3-A	15.40899383	2.4894796	0
IL10RB-D	0	0.829826533	0
CERS1	1.100642416	7.4684388	1.111172731
RPS20P14	26.41541799	142.7301637	31.11283648
PYDC2-AS	0	1.659653067	0
PRR15-DT	1.100642416	0.829826533	0
PPIAP89	1.100642416	0	0
EEF1A1P1	0	0	1.111172731
LINC0134	0	0.829826533	1.111172731
DAZAP2P	2.201284833	4.149132667	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
EFCAB6-A	4.402569665	0	0
VN1R40P	1.100642416	0	0
ENSG0000	2.201284833	11.61757147	1.111172731
PDGFA-D	6.603854498	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	8.298265334	4.444690926
LINC0180	0	0.829826533	0
NPM1P19	1.100642416	1.659653067	1.111172731
ENSG0000	0	3.319306133	0
SAP18P2	0	4.149132667	5.555863657
LINC0192	0	15.76670413	0
ABCC5-AS	0	0.829826533	0
ENSG0000	0	0	4.444690926
ENSG0000	0	0.829826533	5.555863657
OSER1-DT	18.71092108	35.68254093	8.889381852
CCNJP2	1.100642416	0	0
ENSG0000	0	0.829826533	0
SEC13P1	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	6.667036389
LINC0247	0	2.4894796	0
DPPA2P1	1.100642416	0	0
RPL18AP9	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	2.222345463
ASS1P2	4.402569665	0	0

TNS1-AS1	4.402569665	4.149132667	0
NUP35P1	2.201284833	5.808785734	14.44524551
ENSG0000	167.2976473	0	6.667036389
ENSG0000	1.100642416	0	0
LGALSL-I	6.603854498	0.829826533	1.111172731
LINC0101	0	7.4684388	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	7.77820912
ENSG0000	0	0.829826533	0
ROR1-AS1	0	0.829826533	0
H2ACP2	0	0.829826533	0
LINC0176	1.100642416	0	0
AFG3L1P	24.21413316	60.57733694	8.889381852
CHROMR	30.81798766	133.6020719	4.444690926
UBBP3	0	0.829826533	0
THAP12P8	4.402569665	1.659653067	7.77820912
ZNF587P1	1.100642416	0.829826533	1.111172731
ENSG0000	4.402569665	1.659653067	0
RRBP1P1	1.100642416	0	0
PAFAH1B	0	5.808785734	12.22290005
ENSG0000	18.71092108	0	0
ZNF736P1	1.100642416	0	0
HNRNPRP	16.50963624	31.53340827	31.11283648
RPL26P28	0	0.829826533	0
RPL32P35	0	1.659653067	0
TRDD1	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
YES1P1	69.34047223	5.808785734	17.7787637
ATP5F1CP	2.201284833	0.829826533	0
RPL36AP4	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	12.10706658	5.808785734	1.111172731
LINC0144	0	1.659653067	0
MIR181A2	1.100642416	4.149132667	0
EDRF1-DT	12.10706658	10.78774493	2.222345463
ENSG0000	1.100642416	0.829826533	2.222345463
ENSG0000	0	4.149132667	0
TCEAL3-A	2.201284833	1.659653067	0
EPB41L4A	20.91220591	8.298265334	0
SFPQP1	1.100642416	0	0
HMGN1P4	1.100642416	0.829826533	0
IGKV3D-1	15.40899383	2.4894796	0
CCNT2-AS	53.9314784	45.64045934	11.11172731

DMTF1-AS	1.100642416	0	0
LINC0261	0	0.829826533	0
CPTP	44.02569665	43.15097974	83.33795486
EGFR-AS1	1.100642416	0	1.111172731
ARSLP1	1.100642416	0	0
SRSF3P4	3.301927249	0	4.444690926
CALCRL-A	4.402569665	4.149132667	2.222345463
RPL32P6	0	1.659653067	2.222345463
SRIP2	3.301927249	0	0
ENSG0000	28.61670282	24.894796	104.4502368
ENSG0000	1.100642416	1.659653067	0
VEZTP1	1.100642416	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
SNHG14	1103.944344	1610.693301	181.1211552
UBE2FP1	1.100642416	1.659653067	0
SLC44A3-A	8.80513933	8.298265334	3.333518194
UBTFL8	1.100642416	0	0
MTCO1P1	11.00642416	9.9579184	2.222345463
RPL23AP4	0	0.829826533	0
PPM1F-AS	6.603854498	7.4684388	17.7787637
ENSG0000	8.80513933	45.64045934	1.111172731
BCAR3-AS	3.301927249	34.8527144	3.333518194
RPS24P8	8.80513933	15.76670413	7.77820912
ENSG0000	1.100642416	3.319306133	7.77820912
ENSG0000	1.100642416	0.829826533	0
CENPVL3	0	1.659653067	0
ENSG0000	0	0	13.33407278
PTPN2P2	4.402569665	8.298265334	0
POM121L1	0	0	3.333518194
UBE2SP2	3.301927249	7.4684388	0
LINC0124	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
LINC0185	1.100642416	0	0
MIR548XH	0	60.57733694	14.44524551
AMMECR	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
BAZ2B-AS	8.80513933	18.25618373	0
LINC0205	1.100642416	1.659653067	0
ENSG0000	0	3.319306133	1.111172731
HMGB1P9	0	0	1.111172731
DNAJC27-	5.503212081	5.808785734	1.111172731
ENSG0000	0	0.829826533	0

LINC0057(	0	0.829826533	0
SDHDP6	0	1.659653067	0
MIR3681H	1.100642416	16.59653067	0
SNX18P9	1.100642416	0	0
PITX1-AS1	7.704496914	11.61757147	14.44524551
LINC0199	0	0.829826533	0
HAGLR	29.71734524	116.1757147	5.555863657
PHEX-AS1	1.100642416	0	0
ZCRB1P1	0	1.659653067	0
LINC0046(	0	14.9368776	0
C10orf67-A	0	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
PRPF4BP1	1.100642416	0	0
LINC0263(	2.201284833	0.829826533	0
VSTM2A-(	1.100642416	0	0
HAUS1P2	1.100642416	0	0
ENSG0000	0	0	1.111172731
LINC0183	0	3.319306133	0
MRRFP1	0	1.659653067	1.111172731
WARS2-IT	0	0.829826533	0
ENSG0000	4.402569665	0	0
SOX1-OT	1.100642416	0.829826533	0
ENSG0000	3.301927249	0	0
MTCO1P3	0	1.659653067	0
PDCL3P6	14.30835141	2.4894796	1.111172731
LINC0113	5.503212081	0.829826533	0
ENSG0000	0	0.829826533	0
RPSAP18	1.100642416	4.149132667	0
EPIC1	9.905781747	151.8582556	1.111172731
RABGEF1	1.100642416	0	0
ENSAP1	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
SLC25A5-A	1.100642416	16.59653067	2.222345463
LINC0114	1.100642416	0.829826533	0
MSL3P1	1.100642416	1.659653067	0
RPL38P6	0	0	1.111172731
PORCN-D	0	3.319306133	0
PINCR	0	0.829826533	0
OLFM5P	0	2.4894796	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
LINC0297	3.301927249	22.4053164	0
ANKRD30	0	0.829826533	1.111172731

LINC0156	0	0.829826533	0
RPL7P7	2.201284833	9.128091867	0
GTF2IP5	0	3.319306133	0
CHL1-AS2	0	3.319306133	0
RPL12P14	1.100642416	0	0
THAP5P1	0	6.638612267	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	2.222345463
ENSG0000	7.704496914	0	1.111172731
ENSG0000	0	1.659653067	0
RPL21P21	1.100642416	0.829826533	0
AKR7A2P	0	0	17.7787637
ENSG0000	0	0.829826533	0
RPL36P6	0	2.4894796	0
ENSG0000	1.100642416	3.319306133	0
TMCO1-A	5.503212081	16.59653067	0
OACYLP	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
LINC0070	0	0	1.111172731
PRR29	6.603854498	34.02288787	24.44580009
BACE2-IT	3.301927249	2.4894796	0
C4B	2.201284833	0.829826533	8.889381852
METTL15	0	0	5.555863657
PELATON	15.40899383	15.76670413	1.111172731
ENSG0000	0	0.829826533	0
DPPA2P3	1.100642416	0	0
LINC0205	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
HSP90AA2	406.1370516	1443.898168	700.0388208
ENSG0000	1.100642416	0	1.111172731
IFNA22P	0	0	8.889381852
ENSG0000	0	2.4894796	0
STK24-AS	2.201284833	0	0
ADM5	3.301927249	8.298265334	13.33407278
PRKAR2A	6.603854498	0.829826533	1.111172731
SLC31A1P	0	0.829826533	2.222345463
LINC0053	1.100642416	0	0
MKRN5P	45.12633907	15.76670413	43.33573653
ENSG0000	1.100642416	0	0
NF1P6	1.100642416	0	6.667036389
PIGUP1	9.905781747	7.4684388	55.55863657
RPSAP10	0	0	1.111172731

RPL4P7	2.201284833	2.4894796	0
LINC0170	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ATP5PBP1	6.603854498	2.4894796	0
GUSBP6	2.201284833	0	0
SLC25A34	0	1.659653067	0
PGAM1P6	5.503212081	5.808785734	2.222345463
TANK-AS	0	1.659653067	0
ATXN1L	571.2334141	420.7220524	493.3606928
MTCO3P1	1.100642416	3.319306133	0
RPL7AP40	0	0.829826533	0
ENSG0000	0	1.659653067	0
CDHR18P	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
TTC21B-A	0	0	10.00055458
HEXIM2-A	159.5931504	112.026582	171.1206006
MRPS9-AS	1.100642416	0	0
POLR2KP2	1.100642416	0.829826533	0
LINC0036	0	1.659653067	0
LINC0062	0	0.829826533	0
ENSG0000	8.80513933	4.9789592	2.222345463
HTR2A-AS	1.100642416	0	0
KRT8P45	0	1.659653067	1.111172731
ENSG0000	0	1.659653067	0
PPIAP10	2.201284833	0	0
SMIM13	36.32119974	163.4758271	60.0033275
TMLHE-A	1.100642416	4.149132667	0
CSRP1-AS	3.301927249	9.9579184	0
MEP1AP4	2.201284833	0	0
SAGE4P	2.201284833	0	0
SNRPGP15	0	5.808785734	0
EIF4BP3	60.5353329	24.06496947	34.44635467
ENSG0000	0	1.659653067	0
NDUFA4P	0	3.319306133	2.222345463
RPS26P20	3.301927249	1.659653067	1.111172731
LINC0108	0	0.829826533	0
LINC0175	0	0.829826533	0
CIAO2AP2	0	0.829826533	0
LINC0111	0	4.149132667	1.111172731
HNRNPA1	85.85010847	97.0897044	17.7787637
UBE2V1P1	0	1.659653067	0
MIR3659H	0	0.829826533	0
RPL21P72	4.402569665	9.9579184	1.111172731
ENSG0000	0	0.829826533	0

ZMIZ1-AS	14.30835141	9.128091867	1.111172731
RPS26P5	0	0	1.111172731
TGFA-IT1	0	0.829826533	0
IGKV1D-2	3.301927249	0	8.889381852
FGGY-DT	4.402569665	3.319306133	1.111172731
RNPC3-DT	1.100642416	2.4894796	7.77820912
TNK2-AS1	1.100642416	0.829826533	0
RTCA-AS1	17.61027866	34.02288787	4.444690926
OR9R1P	0	1.659653067	0
TUBB8P6	0	0	4.444690926
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	0.829826533	6.667036389
RPS27AP1	22.01284833	60.57733694	47.78042745
ENSG0000	11.00642416	7.4684388	0
PDSS1P2	1.100642416	0.829826533	4.444690926
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
LINC0088	19.81156349	0.829826533	1.111172731
SH3BP5-A	234.4368347	87.96161254	110.0061004
ENSG0000	1.100642416	0.829826533	0
ETV7-AS1	1.100642416	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
RPL17P10	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
PDIA3P2	4.402569665	0.829826533	0
PLA2G12A	4.402569665	2.4894796	0
RASAL2-A	4.402569665	4.9789592	0
MTND6P7	1.100642416	0.829826533	0
NEFMP1	1.100642416	0	0
LAMTOR5	36.32119974	84.6423064	15.55641824
LMX1A-A	2.201284833	0	2.222345463
E2F3-IT1	0	13.27722453	1.111172731
LINC0170	0	0.829826533	0
NPIPA3	0	2.4894796	1.111172731
ENSG0000	0	0	1.111172731
LINC0267	1.100642416	0	0
LEMD1-DT	2.201284833	4.9789592	0
FLVCR2-A	2.201284833	0.829826533	3.333518194
ENSG0000	3.301927249	4.149132667	3.333518194
GUSBP10	0	0	1.111172731
CEP57L1P	4.402569665	12.447398	8.889381852
IMPDH1P8	6.603854498	2.4894796	5.555863657
PCOLCE-A	46.22698148	6.638612267	37.77987287

MAGEA7I	0	0	3.333518194
ENSG0000	0	5.808785734	0
TEX26-AS	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	0
SHMT1P1	0	0	4.444690926
LINC0116	0	2.4894796	0
C1DP3	1.100642416	1.659653067	4.444690926
FDPSP8	1.100642416	0	0
ENSG0000	0	0.829826533	0
MUC20P1	107.8629568	29.8737552	37.77987287
BRAFP1	1.100642416	9.9579184	6.667036389
OR4F2P	1.100642416	0.829826533	6.667036389
CENPIP1	2.201284833	1.659653067	0
EIF4A2P4	0	3.319306133	0
ENSG0000	5.503212081	1.659653067	4.444690926
CETN4P	0	5.808785734	0
ENSG0000	3.301927249	1.659653067	1.111172731
HLCS-AS1	0	20.74566333	1.111172731
KRT18P39	0	0	3.333518194
IQCF4P	2.201284833	0	0
NTM-AS1	0	0.829826533	0
RPS27AP6	1.100642416	0.829826533	0
TUBB4BP	4.402569665	3.319306133	0
ARL5AP4	1.100642416	0	0
ENSG0000	1.100642416	0	0
TMEM72-A	4.402569665	1.659653067	1.111172731
ENSG0000	0	0	7.77820912
ENSG0000	3.301927249	0	0
ENSG0000	2.201284833	1.659653067	1.111172731
COL4A2-A	1.100642416	0	0
THRB-IT1	14.30835141	0	0
RORB-AS1	1.100642416	0	0
USP21P1	0	0.829826533	1.111172731
TMEM183	60.5353329	49.789592	50.00277291
GCSHP5	6.603854498	19.08601027	1.111172731
LMX1B-D	1.100642416	0.829826533	2.222345463
LINC0024(	2.201284833	9.128091867	1.111172731
NQO2-AS1	0	1.659653067	0
ENSG0000	4.402569665	59.7475104	0
OPA1-AS1	1.100642416	1.659653067	0
RPL35AP3	3.301927249	0	1.111172731
RPL29P11	3.301927249	2.4894796	10.00055458
GXYLT1P	1.100642416	1.659653067	0
YBX1P1	55.03212081	26.55444907	17.7787637

LINC0139	1.100642416	0	0
ENSG0000	1.100642416	0	0
MRPL20-A	8.80513933	14.10705107	0
EML4-AS1	2.201284833	0	0
NDUFAF8	53.9314784	156.0073883	95.5608549
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
EIPR1-IT1	1.100642416	10.78774493	0
ENSG0000	6.603854498	10.78774493	7.77820912
NFYCP2	1.100642416	0	0
ENSG0000	6.603854498	2.4894796	5.555863657
ARL14EPI	1.100642416	0	4.444690926
RPS4XP16	3.301927249	11.61757147	5.555863657
LINC0284(	0	4.9789592	0
VPS26BP1	1.100642416	0.829826533	0
SIGLEC30	1.100642416	0	0
POT1-AS1	2.201284833	18.25618373	2.222345463
LINC0283(	0	2.4894796	0
RNF32-AS	19.81156349	18.25618373	16.66759097
SBF1P2	0	0.829826533	3.333518194
ENSG0000	3.301927249	2.4894796	3.333518194
RPL21P91	1.100642416	0	0
LINC0086:	7.704496914	17.4263572	0
TACC1P1	3.301927249	0	1.111172731
LINC0032(	0	0	2.222345463
KRT8P30	0	0	1.111172731
LINC0226:	0	1.659653067	0
GOT1-DT	11.00642416	9.128091867	3.333518194
PRRT4	7.704496914	55.59837774	2.222345463
EEDP1	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	2.201284833	3.319306133	1.111172731
LINC0126(	15.40899383	8.298265334	4.444690926
PGM5-AS1	1.100642416	0	0
LINC0175:	1.100642416	0.829826533	0
KCNC4-D1	0	4.149132667	1.111172731
TBC1D3P(	0	0	1.111172731
ENSG0000	1.100642416	2.4894796	0
LINC0164:	1.100642416	0.829826533	1.111172731
SUMO2P3	3.301927249	6.638612267	3.333518194
ENSG0000	8.80513933	8.298265334	1.111172731
LARGE-AS	3.301927249	0	0
INE1	1.100642416	10.78774493	0
PARP4P2	2.201284833	1.659653067	0

RC3H1-DT	1.100642416	1.659653067	0
TMEM233	2.201284833	1.659653067	0
ENSG0000	6.603854498	6.638612267	34.44635467
PPP1R8P1	9.905781747	3.319306133	6.667036389
ENSG0000	0	0.829826533	1.111172731
RPL29P12	0	0	1.111172731
VTA1P1	0	0.829826533	0
TWF1P2	0	0	1.111172731
KCTD9P1	3.301927249	41.49132667	10.00055458
ENSG0000	9.905781747	13.27722453	4.444690926
UBE2D3P1	46.22698148	49.789592	32.22400921
RPL37P11	0	0.829826533	0
KIF4CP	0	0.829826533	2.222345463
PFDN1P1	1.100642416	0	8.889381852
EIF4BP7	26.41541799	15.76670413	42.22456379
ENSG0000	45.12633907	49.789592	290.0160829
MTND5P2	1.100642416	0	0
ENSG0000	0	0.829826533	0
PRPF38AP	3.301927249	0	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	5.808785734	3.333518194
CATIP-AS	2.201284833	0.829826533	13.33407278
RPL23AP2	4.402569665	1.659653067	12.22290005
ENSG0000	0	0	2.222345463
OR7E116P	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
WWC3-AS	0	0.829826533	0
ICMT-DT	0	7.4684388	2.222345463
FTH1P22	1.100642416	0	0
DAP3P1	4.402569665	0.829826533	1.111172731
ENSG0000	1.100642416	38.17202053	0
ENSG0000	19.81156349	11.61757147	2.222345463
RPL3P7	2.201284833	1.659653067	2.222345463
SETP20	4.402569665	1.659653067	0
ENSG0000	3.301927249	0.829826533	1.111172731
BCRP1	0	0	6.667036389
ATP6V1E1	15.40899383	6.638612267	22.22345463
DPY19L2P	1.100642416	0	0
ENSG0000	0	0.829826533	0
ZBTB45P1	0	0.829826533	0
PNMA6F	1.100642416	0	17.7787637
ENSG0000	2.201284833	0.829826533	0
RPL23AP3	0	0	1.111172731
RANP4	1.100642416	3.319306133	3.333518194

LINC0023	1.100642416	0	0
PSME2P2	2.201284833	5.808785734	5.555863657
DYNC1I2F	55.03212081	121.1546739	117.7843095
SLC9A3-A	62.73661773	89.6212656	232.2351009
ENSG0000	0	0.829826533	0
RPS12P10	0	1.659653067	0
TUBAP9	1.100642416	0	3.333518194
TOMM22F	0	2.4894796	0
ENSG0000	0	14.10705107	0
NPM1P39	2.201284833	6.638612267	2.222345463
DUTP6	0	1.659653067	2.222345463
OSTM1-AS	0	0.829826533	0
HRGP1	1.100642416	1.659653067	0
NHSL1-AS	2.201284833	6.638612267	0
PVALEF	0	0	1.111172731
ENSG0000	0	0.829826533	0
COX7BP3	3.301927249	1.659653067	2.222345463
PPIAP8	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
PLEKHM1	2.201284833	4.149132667	17.7787637
ZNF33BP1	18.71092108	19.9158368	0
RPS12P26	1.100642416	0.829826533	0
LINC0009	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
SSXP3	0	0	10.00055458
ENSG0000	4.402569665	0	1.111172731
PDK1-AS1	3.301927249	4.149132667	0
MIR137HC	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
DUXAP9	5.503212081	4.9789592	0
AKR1B1P(	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	2.222345463
SMARCE1	1.100642416	0.829826533	3.333518194
ENSG0000	0	1.659653067	1.111172731
HSPA7	114.4668113	46.47028587	140.0077642
ENSG0000	1.100642416	2.4894796	0
RPS27AP1	2.201284833	0.829826533	3.333518194
LINC0247(	0	0	1.111172731
RPL21P10	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	4.402569665	0.829826533	0
RPS2P1	0	0.829826533	0
RPL5P25	0	0	7.77820912

ARMC8P1	0	0.829826533	0
ENSG0000	0	0.829826533	5.555863657
ST13P6	9.905781747	11.61757147	8.889381852
PCDH9-AS	1.100642416	0	0
ZNRF2P2	5.503212081	6.638612267	0
TAF1A-AS	1.100642416	2.4894796	0
LINC0070	1.100642416	0	0
NOLC1P1	0	0.829826533	0
RPL21P27	1.100642416	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	1.111172731
LINC0177	1.100642416	0.829826533	0
OSTCP2	0	0.829826533	0
ENSG0000	7.704496914	8.298265334	1.111172731
ENSG0000	5.503212081	3.319306133	0
ENSG0000	0	0	3.333518194
LINC0035	2.201284833	0.829826533	0
LINC0142	1.100642416	0.829826533	1.111172731
LINC0159	0	4.149132667	0
LHFPL3-A	1.100642416	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	0
LINC0281	0	2.4894796	0
ENSG0000	1.100642416	5.808785734	0
HMGB3P1	1.100642416	0	0
RPL23AP1	1.100642416	0.829826533	1.111172731
ENSG0000	6.603854498	3.319306133	1.111172731
LRRK2-DT	3.301927249	1.659653067	0
SNX18P3	1.100642416	0	0
SLC25A5P	0	0	1.111172731
ANKRD49	5.503212081	9.9579184	0
ENSG0000	50.62955115	293.7585928	45.55808199
RPF2P1	2.201284833	3.319306133	2.222345463
MIPEPP1	0	0	1.111172731
PPP1R26-A	3.301927249	6.638612267	1.111172731
CT62	1.100642416	1.659653067	0
TDGF1P3	2.201284833	0	7.77820912
TMEM246	0	1.659653067	0
NRSN2-AS	13.207709	29.04392867	7.77820912
ENSG0000	0	2.4894796	0
SFTA1P	0	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
LRRC3B-A	1.100642416	2.4894796	0
MRPL36P1	0	0	4.444690926

FAM236D	1.100642416	0.829826533	23.33462736
PGM5P4	7.704496914	3.319306133	2.222345463
ENSG0000	0	0.829826533	0
TGIF2P1	1.100642416	0	1.111172731
ENSG0000	6.603854498	6.638612267	2.222345463
ELF2P4	0	0.829826533	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	5.808785734	0
ACKR4P1	3.301927249	4.149132667	10.00055458
RPL36AP2	0	2.4894796	0
AKR1C5P	2.201284833	0	0
RPL21P3	4.402569665	4.149132667	4.444690926
ENSG0000	0	0.829826533	15.55641824
ENSG0000	0	0	1.111172731
RBMS1P1	25.31477557	21.57548987	36.66870014
TNPO1P1	26.41541799	48.12993894	13.33407278
LINC0033	0	0	1.111172731
LINC0167	2.201284833	0	0
LINC0150	5.503212081	0	0
BOLA3-D	3.301927249	4.9789592	0
RPS15AP1	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
TPI1P4	1.100642416	0	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
FDPSP1	1.100642416	0.829826533	0
RFPL1S	14.30835141	2.4894796	31.11283648
JPX	152.9892959	284.6305009	38.8910456
NFIB-AS1	1.100642416	9.128091867	0
ATP13A4-	1.100642416	0	5.555863657
ENSG0000	1.100642416	0.829826533	0
PLCB1-IT1	6.603854498	10.78774493	0
RPL22P4	0	0.829826533	0
NUTM2B-	112.2655265	234.0110824	7.77820912
RPL35AP7	0	0	1.111172731
ENSG0000	3.301927249	5.808785734	0
GBP1P1	29.71734524	4.149132667	11.11172731
ENSG0000	9.905781747	0	0
CYP4A22-	0	1.659653067	0
AIFM1P1	1.100642416	0	6.667036389
PCDH8P1	1.100642416	0.829826533	0
RPL29P20	1.100642416	0.829826533	2.222345463
MTND1P3	0	0.829826533	0

LINC0170	0	2.4894796	0
SNED1-AS	5.503212081	0	0
MKRN2OS	13.207709	43.98080627	12.22290005
ENSG0000	3.301927249	10.78774493	0
TMA7B	1.100642416	1.659653067	0
SP3P	1.100642416	0.829826533	3.333518194
ENSG0000	1.100642416	2.4894796	8.889381852
PAWRP1	0	2.4894796	0
LINC0139	1.100642416	0.829826533	0
LINC0182	2.201284833	0.829826533	0
ENSG0000	0	3.319306133	0
LINC0198	1.100642416	20.74566333	0
ENSG0000	0	9.9579184	0
C2CD4D	6.603854498	4.149132667	4.444690926
MTCO3P2	0	0.829826533	0
UBE2D3P2	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0171	0	0	1.111172731
LINC0149	1.100642416	0	0
ENSG0000	17.61027866	26.55444907	4.444690926
CCT4P2	2.201284833	0.829826533	0
RPL35P5	0	1.659653067	1.111172731
DRAXINP	0	0	1.111172731
NCBP2-AS	0	4.9789592	1.111172731
EDNRB-A	1.100642416	0.829826533	0
PA2G4P5	1.100642416	0	0
TRIM53AI	0	0.829826533	12.22290005
ENSG0000	0	0.829826533	0
IPPKP1	1.100642416	0	0
ENSG0000	2.201284833	0	1.111172731
MTOR-AS	3.301927249	0.829826533	6.667036389
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
CCDC13-A	1.100642416	0	0
LINCMD1	0	0.829826533	0
ZNF469	532.7109295	87.131786	267.7926283
ENSG0000	2.201284833	0.829826533	1.111172731
MYT1L-A	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
AGBL4-IT	3.301927249	4.9789592	0
MTND2P2	424.8479727	1608.203822	20.00110917
HNRNPA3	0	0	2.222345463
ENSG0000	0	0.829826533	0
PGAM1P2	0	0	1.111172731

ENSG0000	0	0.829826533	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	4.9789592	1.111172731
RPL14P2	1.100642416	0	0
SAR1AP3	0	1.659653067	0
CADM3-A	16.50963624	2.4894796	20.00110917
FCF1P6	0	2.4894796	3.333518194
CCNT2P1	0	0.829826533	0
TMED2P1	4.402569665	1.659653067	0
IPO7P2	1.100642416	0	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	0	5.808785734	1.111172731
PACRG-A	1.100642416	0.829826533	1.111172731
FAM225B	3.301927249	1.659653067	0
TSPY5P	2.201284833	0	0
ENSG0000	3.301927249	2.4894796	0
LAGE3P1	3.301927249	3.319306133	3.333518194
HNRNPA1	2.201284833	2.4894796	12.22290005
SLC26A6	169.4989321	80.49317374	220.0122008
ENSG0000	3.301927249	0	0
PTPRD-AS	1.100642416	2.4894796	0
ENSG0000	3.301927249	0	0
PDE4DIPP	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	5.503212081	2.4894796	8.889381852
ASH2LP3	1.100642416	0	0
ENSG0000	6.603854498	4.9789592	0
FGD5-AS1	151.8886534	585.027706	75.55974574
NRG3-AS1	0	0.829826533	0
LINC0203(	0	0.829826533	0
MEG8	8.80513933	33.19306133	1.111172731
ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
DBH-AS1	3.301927249	44.8106328	0
ENSG0000	0	10.78774493	0
LINC0138	1.100642416	0	0
P3H2-AS1	5.503212081	0	2.222345463
CROCCP1	0	0.829826533	1.111172731
SIRPAP1	4.402569665	0	7.77820912
DDX39AP	0	0	1.111172731
PROSER2-	3.301927249	3.319306133	6.667036389
ENSG0000	4.402569665	0	0
MIAT	27.51606041	203.3075007	2.222345463

ENSG0000	0	0	2.222345463
TRAM2-A	3.301927249	20.74566333	0
SNX10-AS	17.61027866	14.9368776	7.77820912
TMEM30A	6.603854498	8.298265334	18.88993643
ENSG0000	0	2.4894796	20.00110917
WARS1P1	1.100642416	0	0
MRPS11P1	0	0	3.333518194
DEFB131E	2.201284833	0	6.667036389
ENSG0000	4.402569665	4.149132667	1.111172731
DNAJC19I	1.100642416	0.829826533	0
ENSG0000	0	0	7.77820912
GRPEL2P2	0	0	4.444690926
ENSG0000	1.100642416	0	0
UBXN7-AS	1.100642416	0.829826533	6.667036389
SFTPA3P	2.201284833	0	0
FAM229A	141.9828717	103.7283167	236.6797918
ERCC6	954.2569749	897.0424826	1210.067105
ACE2-DT	0	0.829826533	0
ENSG0000	0	0.829826533	0
TRMT2B-A	3.301927249	1.659653067	1.111172731
MKRN7P	33.01927249	12.447398	22.22345463
RUSC1-AS	124.372593	110.3669289	115.5619641
PCNPP2	0	0	1.111172731
LINC02816	0	1.659653067	0
WDR87BP	0	0.829826533	0
ENSG0000	2.201284833	0	0
TEX14BP	2.201284833	2.4894796	0
C3orf86P	1.100642416	1.659653067	0
LINC00115	15.40899383	9.128091867	1.111172731
LINC01456	0	13.27722453	0
BMS1P11	1.100642416	2.4894796	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	10.78774493	0
DHDDS-A	5.503212081	13.27722453	1.111172731
ENSG0000	1.100642416	0	0
FRG2B	4.402569665	0.829826533	3.333518194
HSPE1P13	3.301927249	4.9789592	1.111172731
ANKRD65	0	0.829826533	0
RPL26P36	0	0.829826533	1.111172731
LINC01745	0	0.829826533	0
RIMKLBP1	0	0.829826533	0
NOL7	211.3233439	609.922502	267.7926283
SLC18A2-A	2.201284833	0	0

PCA3	75.94432672	30.70358173	6.667036389
S1PR1-DT	1.100642416	0	0
C5orf67	0	0	6.667036389
RIOK3P1	1.100642416	0	0
ZFAND3-I	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
NTF4	2.201284833	1.659653067	6.667036389
ODF2-AS1	0	0	13.33407278
SATB2-AS	1.100642416	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	2.222345463
NRIR	1.100642416	0.829826533	0
ELFN1	17.61027866	89.6212656	40.00221833
MTND1P2	3.301927249	14.9368776	0
PIGBOS1	24.21413316	34.8527144	10.00055458
ZNF567-D	9.905781747	9.128091867	1.111172731
ANKRD44	1.100642416	0	0
MICALL2-	1.100642416	0.829826533	0
HMGB1P2	1.100642416	0.829826533	2.222345463
LAMP5-AS	0	2.4894796	11.11172731
RPL23AP3	1.100642416	0.829826533	0
OR4A8	9.905781747	0.829826533	3.333518194
GTF2IP14	4.402569665	1.659653067	0
PPIAP37	0	0	4.444690926
KCNIP2-A	4.402569665	0	0
ENSG0000	1.100642416	4.149132667	1.111172731
CCT8P1	104.5610295	196.6688884	86.67147305
PRICKLE2	0	0.829826533	0
ENSG0000	1.100642416	0	0
RWDD3-D	0	0.829826533	3.333518194
FGF13-AS	4.402569665	0	0
PPIAP21	1.100642416	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	1.111172731
YBX1P8	0	3.319306133	1.111172731
TLK2P1	75.94432672	53.10889814	72.22622754
ZNF503-AS	5.503212081	2.4894796	2.222345463
LINC0177(	1.100642416	0	0
MEMO1P1	63.83726015	39.00184707	28.89049102
PAICSP1	0	1.659653067	0
MTND4P3	4.402569665	7.4684388	0
PHF2P2	1.100642416	0	6.667036389
HMGB3P2	2.201284833	0	0

PGBD4P6	1.100642416	0	0
ZP3P2	0	0.829826533	0
LINC0062	39.62312699	14.9368776	62.22567296
HNRNPA3	0	0.829826533	0
LINC0095	0	16.59653067	1.111172731
ENSG0000	1.100642416	1.659653067	0
PHKG1P1	1.100642416	0	1.111172731
ENSG0000	0	1.659653067	0
RPL6P4	0	0	1.111172731
USP12PX	1.100642416	0	2.222345463
RPS10P10	0	0	2.222345463
SLC39A12	0	0.829826533	0
RPL17P6	122.1713082	77.1738676	43.33573653
UQCRFS1	2.201284833	5.808785734	1.111172731
EIF3LP3	7.704496914	0	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
LINC0093	1.100642416	0	0
ENSG0000	2.201284833	0	0
SEC11B	35.22055732	47.3001124	24.44580009
LINC0209	0	0	1.111172731
RPL36AP5	1.100642416	5.808785734	0
RAB28P1	1.100642416	0	0
ENSG0000	0	0.829826533	0
AHCTF1P	386.3254881	460.553726	287.7937374
DDC-AS1	0	0	1.111172731
FTCDNL1	58.33404806	13.27722453	24.44580009
LINC0190	1.100642416	0	0
PSMC1P12	0	0.829826533	0
RPL26P9	0	0.829826533	0
PPIAP66	2.201284833	0	2.222345463
BAIAP2-D	36.32119974	104.5581432	11.11172731
ENSG0000	0	3.319306133	12.22290005
ENSG0000	18.71092108	11.61757147	21.1122819
EIF4A1P5	0	0.829826533	0
ENSG0000	0	0.829826533	0
FGFR3P6	1.100642416	0	0
AP4B1-AS	6.603854498	0.829826533	0
TEX22	11.00642416	6.638612267	13.33407278
ENSG0000	2.201284833	10.78774493	2.222345463
ELOCP21	0	0.829826533	0
HNRNPA1	2.201284833	0.829826533	1.111172731
CLK3P2	0	0.829826533	0
LINC0251	6.603854498	1.659653067	0

ENSG0000	1.100642416	0	0
SGMS1-AS	12.10706658	12.447398	23.33462736
LINC0173	0	0	1.111172731
RPS3AP27	0	0.829826533	0
ENSG0000	1.100642416	0	0
RBISP1	0	0.829826533	0
WASH8P	11.00642416	7.4684388	5.555863657
RPL26P19	127.6745203	232.3514293	106.6725822
PRELID3B	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
NPIPB14P	2.201284833	1.659653067	0
KRT18P24	1.100642416	0	0
GAS1RR	0	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0.829826533	1.111172731
RPS17P8	4.402569665	0	0
RPL37AP1	8.80513933	28.21410213	30.00166375
ZNF32-AS	0	1.659653067	3.333518194
KRT18P36	0	0.829826533	0
LINC02608	2.201284833	4.149132667	0
ENSG0000	0	0	1.111172731
MRPL35P3	3.301927249	1.659653067	1.111172731
GRM7-AS3	0	2.4894796	0
PIMREGP1	0	0	1.111172731
ISM1-AS1	1.100642416	0	0
ENSG0000	8.80513933	19.9158368	3.333518194
ENSG0000	46.22698148	30.70358173	25.55697282
STUB1P1	0	0	2.222345463
ENSG0000	0	0.829826533	0
RPL12P10	0	1.659653067	0
ENSG0000	0	0.829826533	0
OR52I2	9.905781747	3.319306133	0
RPS3AP10	0	0.829826533	0
RAD23BP2	0	1.659653067	0
PDCL3P1	0	0.829826533	0
NPY6R	1.100642416	0	0
ENSG0000	0	3.319306133	0
SMARCE1	2.201284833	0	0
ENSG0000	14.30835141	19.08601027	0
CFLAR-AS	2.201284833	0.829826533	3.333518194
ZKSCAN8	5.503212081	3.319306133	1.111172731
LINC0035	0	1.659653067	0
RPS3AP38	5.503212081	6.638612267	1.111172731
LINC0181	0	70.53525534	0

CROCC2	9.905781747	19.08601027	12.22290005
NUP50-DT	7.704496914	8.298265334	0
ENSG0000	1.100642416	0.829826533	0
PPP1R15B	1.100642416	0	0
RPL23AP2	0	0.829826533	0
ENSG0000	8.80513933	14.9368776	8.889381852
TMEM252	0	0.829826533	0
USP8P2	2.201284833	0	5.555863657
NMD3P1	1.100642416	0	1.111172731
VN2R10P	0	2.4894796	0
PSPC1-AS1	1.100642416	0	0
ACTG1P24	2.201284833	2.4894796	1.111172731
RPL10AP6	19.81156349	8.298265334	10.00055458
TERF1P5	0	0.829826533	0
HAGLROS	0	6.638612267	0
LINC0208	0	0	3.333518194
ST7-AS2	0	1.659653067	0
DCAF8L1	1.100642416	1.659653067	25.55697282
LINC0134	0	0	2.222345463
LINC0187	1.100642416	5.808785734	0
ENSG0000	7.704496914	2.4894796	4.444690926
LINC0290	2.201284833	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	1.100642416	0	0
OR8T1P	1.100642416	0	1.111172731
TPI1P1	15.40899383	56.42820427	32.22400921
SLC25A5P	0	4.9789592	5.555863657
ENSG0000	0	0	2.222345463
HMGN2P7	0	0	1.111172731
RPL15P13	0	1.659653067	0
USP17L7	0	0	1.111172731
ENSG0000	0	2.4894796	0
AKTIPP2	2.201284833	2.4894796	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	0	0	3.333518194
GAPDHP3	1.100642416	0	0
THBS2-AS	3.301927249	16.59653067	7.77820912
NOTCH2P	1.100642416	0.829826533	0
RPL7AP51	1.100642416	0	0
ENSG0000	0	12.447398	0
ENSG0000	2.201284833	0	0

ENSG0000	7.704496914	0.829826533	1.111172731
ADAM1B	6.603854498	0.829826533	0
ENSG0000	12.10706658	9.128091867	2.222345463
PPIAP62	0	1.659653067	1.111172731
LINC0174	20.91220591	3.319306133	0
UPF3AP1	8.80513933	9.9579184	12.22290005
TMEM185	286.1670282	268.0339703	378.9099014
OR7H1P	0	0.829826533	2.222345463
ACTR3BP	1.100642416	0	0
ADIPOQ-A	1.100642416	0	4.444690926
ENSG0000	1.100642416	0	0
LINC0103	0	0	3.333518194
LINC0182	0	0.829826533	0
FTOP1	0	0	3.333518194
RPL26P27	0	0.829826533	0
RPSAP21	1.100642416	0	2.222345463
USF1P1	1.100642416	1.659653067	4.444690926
IPMKP1	0	0.829826533	3.333518194
ENSG0000	0	0.829826533	0
UPK1A-AS	0	3.319306133	0
LINC0039	0	0.829826533	0
KIRREL1-	2.201284833	4.9789592	0
ENSG0000	1.100642416	0.829826533	8.889381852
HDAC9-AS	2.201284833	0	0
RPS7P10	2.201284833	8.298265334	0
ENSG0000	0	0	2.222345463
ENSG0000	5.503212081	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
MLXP1	0	0.829826533	0
GAPDHP7	0	0	1.111172731
MYL6P1	0	0	1.111172731
RPL7P22	0	0	1.111172731
SCDP1	53.9314784	14.10705107	10.00055458
ENSG0000	1.100642416	1.659653067	1.111172731
IMPDH1P7	0	3.319306133	0
MTCL1P1	0	0	1.111172731
AGKP1	4.402569665	0	0
NPM1P49	0	0.829826533	0
TRAF6P1	1.100642416	0.829826533	2.222345463
CYP4F26P	1.100642416	2.4894796	0
FTH1P20	2.201284833	1.659653067	1.111172731
ENSG0000	0	0	1.111172731
LINC0060	1.100642416	0	0
ENSG0000	0	0	1.111172731

ENSG0000	1.100642416	2.4894796	0
ENSG0000	5.503212081	1.659653067	1.111172731
RPL39P40	1.100642416	0	0
LINC02848	2.201284833	23.23514293	0
ENSG0000	1.100642416	0	0
PAPPA-AS	3.301927249	1.659653067	0
ENSG0000	2.201284833	0	0
FTLP3	6.603854498	10.78774493	17.7787637
SNX30-DT	1.100642416	4.149132667	0
OR52M2P	0	0.829826533	0
LINC0034	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
SHANK2-A	2.201284833	0	0
LINC0097	0	0.829826533	0
SLC9A3P3	1.100642416	0	0
UBE2V1P1	46.22698148	15.76670413	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
SHISA5P1	2.201284833	0.829826533	7.77820912
ACTG1P12	0	2.4894796	1.111172731
ENSG0000	2.201284833	3.319306133	0
BUD13-DT	0	0	1.111172731
ENSG0000	1.100642416	0	0
PLCG1-AS	9.905781747	5.808785734	20.00110917
KIF4B	6.603854498	55.59837774	67.78153662
PSMD10P2	0	0	2.222345463
TSPAN14-	1.100642416	0	0
TRBV2	2.201284833	0	12.22290005
HSPA9P1	8.80513933	10.78774493	8.889381852
ENSG0000	2.201284833	4.149132667	10.00055458
LINC01108	0	2.4894796	0
TEX41	4.402569665	14.10705107	0
LINC02679	1.100642416	4.149132667	0
IGBP1P1	2.201284833	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
PWWP2AI	0	5.808785734	2.222345463
LINC01535	8.80513933	25.72462253	2.222345463
ENTPD1-A	148.5867262	131.9424188	50.00277291
ENSG0000	1.100642416	3.319306133	0
NXNP1	0	0	1.111172731
MIR217HC	0	0.829826533	0
SDCBPP1	0	0.829826533	0
ENSG0000	0	0	1.111172731
FAM66C	14.30835141	4.149132667	2.222345463

LINC0170	0	0.829826533	0
EEF1DP2	4.402569665	1.659653067	4.444690926
ENSG0000	0	2.4894796	1.111172731
LINC0255	0	0.829826533	0
HSBP1L1	40.7237694	5.808785734	8.889381852
OAZ1P1	1.100642416	0	0
FSIP2-AS2	9.905781747	4.9789592	8.889381852
ENSG0000	0	0	2.222345463
CUTALP	44.02569665	81.32300027	7.77820912
MAGOH-I	2.201284833	2.4894796	1.111172731
VPS25P1	0	0.829826533	0
PP12613	0	0.829826533	0
DISC1-IT1	1.100642416	2.4894796	0
TAS2R46	1.100642416	1.659653067	1.111172731
SRRM5	31.91863007	17.4263572	17.7787637
ENSG0000	1.100642416	0	0
GAPDHP5	1.100642416	0.829826533	0
LINC0301	1.100642416	0	0
HIKESHIP	1.100642416	0	0
FAM30A	1.100642416	0	0
NAALADI	0	9.128091867	3.333518194
AVPR1B-I	1.100642416	0	0
TBCAP1	0	0.829826533	0
TLK1P1	3.301927249	3.319306133	6.667036389
PGAM4	1.100642416	9.128091867	16.66759097
WBP11P2	0	0.829826533	0
HNRNPA3	3.301927249	3.319306133	4.444690926
LINC0261	3.301927249	7.4684388	0
ENSG0000	0	4.149132667	0
CACTIN-A	3.301927249	4.149132667	7.77820912
OSTCP8	1.100642416	7.4684388	6.667036389
ZNF451-A	13.207709	2.4894796	20.00110917
LCT-AS1	7.704496914	0	1.111172731
LINC0084	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
R3HDML-	4.402569665	0.829826533	12.22290005
ENSG0000	0	1.659653067	0
SLC6A6P1	0	0	5.555863657
ENSG0000	0	0.829826533	0
SUGT1P1	1.100642416	4.149132667	0
ENSG0000	26.41541799	19.9158368	3.333518194
LINC0150	1.100642416	0	0
PPP1CB-D	14.30835141	16.59653067	2.222345463
ARHGAP2	0	0.829826533	0

ENSG0000	1.100642416	0	0
PAICSP3	2.201284833	0	1.111172731
ENSG0000	4.402569665	4.9789592	30.00166375
ZNF277-A	1.100642416	0.829826533	0
GPR155-D	0	5.808785734	0
ENSG0000	0	2.4894796	0
THORLNC	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ATE1OSP	8.80513933	1.659653067	1.111172731
LHFPL3-A	0	1.659653067	0
ENSG0000	2.201284833	0	0
TRPC6P10	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	3.333518194
RPS29P10	0	0.829826533	0
ERVMER3	75.94432672	237.3303885	290.0160829
ATF6-DT	2.201284833	4.149132667	0
ENSG0000	0	1.659653067	0
LINC0135	16.50963624	13.27722453	18.88993643
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
H2BP6	4.402569665	0	0
ISCA2P1	0	4.149132667	0
BSN-DT	0	1.659653067	0
LINC0127	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
LINC0045	0	0.829826533	0
LINC0016	0	0	3.333518194
CEP164P1	1.100642416	0.829826533	1.111172731
RBMY1J	1.100642416	0	8.889381852
IL9RP3	2.201284833	6.638612267	7.77820912
ALG1L5P	0	0.829826533	1.111172731
RNF207-A	0	1.659653067	1.111172731
RPS4XP2	0	0	1.111172731
DANCR	57.23340565	72.1949084	10.00055458
NCKAP5-A	0	4.149132667	0
PPIAP60	1.100642416	0.829826533	0
ENSG0000	4.402569665	4.149132667	2.222345463
RHEBP2	9.905781747	27.3842756	3.333518194
ENSG0000	0	4.9789592	0
PRKCZ-DT	2.201284833	0.829826533	0
NEDD8P1	0	0.829826533	3.333518194
COX6A1P2	70.44111464	160.1565209	197.7887462
HMGN1P2	0	1.659653067	0
ABHD17A	0	0	1.111172731

CENPCP1	2.201284833	3.319306133	5.555863657
LINC0169	1.100642416	1.659653067	0
LINC0120	0	0.829826533	0
PRELID1P	5.503212081	2.4894796	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	7.704496914	0	0
ENSG0000	0	0.829826533	0
LINC0065	0	0.829826533	0
ENSG0000	2.201284833	0	0
NBPF2P	33.01927249	36.51236747	28.89049102
ENSG0000	0	1.659653067	0
LINC0124	2.201284833	0.829826533	0
RPS24P19	24.21413316	38.17202053	40.00221833
LINC0287	6.603854498	1.659653067	0
FKBP14-A	0	4.149132667	1.111172731
IL6STP1	5.503212081	4.149132667	1.111172731
SLC8A1-A	3.301927249	5.808785734	0
RPS2P36	1.100642416	0	0
ENSG0000	3.301927249	0	0
LINC0051	12.10706658	199.9881945	17.7787637
ITGB2-AS	1.100642416	0	0
ENSG0000	0	8.298265334	14.44524551
ENSG0000	1.100642416	5.808785734	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	5.808785734	1.111172731
C14orf132	63.83726015	196.6688884	24.44580009
ANHX	4.402569665	1.659653067	16.66759097
LINC0062	2.201284833	0	0
ENSG0000	0	2.4894796	0
RPL41P1	45.12633907	34.02288787	15.55641824
NAA20P1	0	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
EPS15-AS	3.301927249	0.829826533	0
FOCAD-A	1.100642416	0.829826533	0
SDHDP2	2.201284833	0	7.77820912
ENSG0000	2.201284833	0	0
RPS27P3	11.00642416	24.894796	1.111172731
LINC0279	1.100642416	4.149132667	2.222345463
SLC6A17-	1.100642416	0	2.222345463
HMGB3P8	1.100642416	0	1.111172731
RPS28P7	5.503212081	4.149132667	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
PARP1P1	0	0.829826533	5.555863657

CRIP1P3	0	0.829826533	0
LMCD1-A	2.201284833	8.298265334	1.111172731
ENSG0000	1.100642416	0	0
LINC0163(	0	0.829826533	0
ZNF717	729.725922	389.1886441	306.6836739
LBX1-AS1	0	11.61757147	0
ENSG0000	9.905781747	14.9368776	7.77820912
LINC0115:	0	1.659653067	0
IL21-AS1	0	1.659653067	0
PRR20D	0	0.829826533	2.222345463
DOCK8-AS	1.100642416	4.149132667	0
ENSG0000	0	1.659653067	2.222345463
DDX11L16	0	0.829826533	0
THEM7P	0	0.829826533	0
ENSG0000	0	0.829826533	0
WDR11-D7	3.301927249	26.55444907	1.111172731
MYL6P3	1.100642416	0	0
BEND7-D7	2.201284833	2.4894796	0
PGBP	1.100642416	0	0
LRRC2P1	0	0.829826533	3.333518194
RPL21P31	1.100642416	0	0
ENSG0000	0	0	2.222345463
TRGC2	183.8072835	3.319306133	20.00110917
ENSG0000	1.100642416	0	0
MIR663AH	1.100642416	1.659653067	1.111172731
ST7-AS1	3.301927249	0.829826533	1.111172731
ENSG0000	2.201284833	4.9789592	1.111172731
CNN2P1	0	0.829826533	0
SUB1P1	0	3.319306133	2.222345463
WDR35-D7	0	12.447398	12.22290005
MTND1P1	1.100642416	0	0
WASH7P	18.71092108	10.78774493	17.7787637
ZNF692-D7	2.201284833	0	0
ENSG0000	4.402569665	1.659653067	11.11172731
SLAMF6P	0	0	7.77820912
ENSG0000	2.201284833	0	0
NALF1-IT1	2.201284833	0	0
COPS8-DT	4.402569665	18.25618373	0
ENSG0000	2.201284833	0	0
CDRT15P2	1.100642416	0.829826533	0
MIS18A-A	0	0.829826533	0
SMIM2-AS	1.100642416	1.659653067	1.111172731
GXYLT1P	0	1.659653067	0
DONSONI	5.503212081	6.638612267	2.222345463

ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
RPL39P25	0	0.829826533	0
MTND6P1	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ARID3BP1	7.704496914	6.638612267	2.222345463
ELL2P1	17.61027866	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
KRT16P2	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	7.4684388	0
ENSG0000	2.201284833	2.4894796	5.555863657
LINC0283	0	1.659653067	0
RPL21P20	0	0	1.111172731
ENSG0000	2.201284833	0	0
RPL7AP22	1.100642416	5.808785734	1.111172731
THRAP3P	1.100642416	0.829826533	6.667036389
HAUS6P1	1.100642416	0	0
PARG	562.4282747	598.3049306	487.8048291
HNRNPKP	17.61027866	29.8737552	16.66759097
RBM26-AS	6.603854498	4.149132667	4.444690926
GOLGA7B	2.201284833	3.319306133	0
LINC0293	4.402569665	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
TP73-AS1	35.22055732	49.789592	12.22290005
RABGAP1	1.100642416	0	0
DLG1-AS1	2.201284833	4.149132667	0
FTH1P16	6.603854498	1.659653067	2.222345463
PPIAP2	66.03854498	6.638612267	6.667036389
EIF4A2P2	5.503212081	1.659653067	2.222345463
RPL35AP2	1.100642416	4.149132667	0
ENSG0000	8.80513933	23.23514293	2.222345463
SALL1P1	0	0	6.667036389
HPN-AS1	0	3.319306133	0
KIF9-AS1	22.01284833	19.08601027	25.55697282
RPL21P82	1.100642416	0	0
LINC0180	0	0.829826533	0
KRT8P20	0	0.829826533	0
RNF6P1	0	2.4894796	0
AMYP1	2.201284833	0.829826533	0
ZMYM4-A	0	1.659653067	3.333518194

ACNATP	0	0.829826533	0
ENSG0000	0	4.149132667	1.111172731
ENSG0000	0	1.659653067	0
PCGEM1	19.81156349	0.829826533	0
CSE1L-DT	1.100642416	0	0
FCF1P1	2.201284833	4.149132667	1.111172731
HNRNPA1	0	0.829826533	0
MTND4P3	0	0	1.111172731
LINC0031(	2.201284833	43.15097974	0
ENSG0000	1.100642416	0.829826533	0
LINC0153'	0	1.659653067	0
RPL39P16	0	1.659653067	0
AKR1B15	6.603854498	2.4894796	15.55641824
TSSK5P	1.100642416	1.659653067	0
RPL6P24	1.100642416	0	0
STK4-DT	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	28.61670282	44.8106328	1.111172731
NCAM1-A	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
CCNJP1	1.100642416	0	1.111172731
CHUK-DT	2.201284833	3.319306133	0
KIF1C-AS	1.100642416	2.4894796	0
SCAMP4	294.9721676	255.5865723	692.2606117
MROCKI	1.100642416	0	0
ILRUNP1	2.201284833	0	0
LINC0148:	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
SLC2A1-D	4.402569665	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
SOCS5P4	4.402569665	2.4894796	3.333518194
DNAJC9-A	1.100642416	16.59653067	7.77820912
SFR1P1	2.201284833	0	4.444690926
MYO1B-A	0	0.829826533	1.111172731
SPAG5-AS	9.905781747	8.298265334	16.66759097
USP17L12	1.100642416	0	1.111172731
MIR4290H	0	0	1.111172731
RPS15AP3	3.301927249	4.9789592	0
LINC0037(	0	6.638612267	0
RPS3AP53	1.100642416	0	0
ENSG0000	0	0.829826533	0
STAU2P1	64.93790256	64.7264696	13.33407278

ADGRF5P	18.71092108	13.27722453	38.8910456
RPS3AP37	6.603854498	14.10705107	0
TP73-AS3	0	12.447398	0
ATP5MC1	0	2.4894796	3.333518194
ENSG0000	0	2.4894796	0
TOMM22F	0	0	1.111172731
LINC0107	0	1.659653067	0
QRSL1P2	1.100642416	0	2.222345463
ENSG0000	12.10706658	12.447398	6.667036389
CERS6-AS	0	0.829826533	0
ENSG0000	1.100642416	0	0
ALG1L8P	1.100642416	0.829826533	1.111172731
PHB1P11	0	0.829826533	5.555863657
ENSG0000	0	0.829826533	0
SNRPEP3	0	0	1.111172731
ENSG0000	39.62312699	140.2406841	21.1122819
LINC0113	2.201284833	3.319306133	1.111172731
LINC0171	0	1.659653067	0
HNRNPA1	2.201284833	0	1.111172731
SOX21-AS	1.100642416	3.319306133	1.111172731
STEAP2-A	8.80513933	0	0
ISCA1P6	0	1.659653067	0
SERPINA7	2.201284833	0	0
ENSG0000	0	1.659653067	0
UST-AS1	0	0.829826533	0
CYCSP24	3.301927249	4.149132667	2.222345463
ZNF731P	58.33404806	69.7054288	10.00055458
LINC0035	0	29.8737552	3.333518194
ENSG0000	2.201284833	0	1.111172731
ENSG0000	12.10706658	0.829826533	1.111172731
ATP5F1AI	0	0.829826533	0
HNRNPA3	0	1.659653067	3.333518194
RPL23AP7	2.201284833	4.9789592	1.111172731
DNMBP-A	3.301927249	0.829826533	8.889381852
ENSG0000	1.100642416	2.4894796	0
LINC0011	0	0.829826533	0
ENSG0000	0	0	1.111172731
SNRNP40I	1.100642416	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	5.503212081	0	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	0	1.111172731
POLR2MP	13.207709	5.808785734	22.22345463

ENSG0000	0	0	2.222345463
RD3L	1.100642416	2.4894796	20.00110917
MTND6P5	5.503212081	4.149132667	0
LINC0280	1.100642416	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
RPL36AP3	1.100642416	0	0
ENSG0000	0	0.829826533	0
GUSBP8	0	57.2580308	1.111172731
NTRAS	0	0.829826533	0
MYL12BP	0	4.9789592	4.444690926
ENSG0000	3.301927249	4.9789592	0
RPL7P12	0	0.829826533	0
ASH1L-IT	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	3.301927249	1.659653067	18.88993643
ENSG0000	0	0.829826533	0
CDPF1P1	2.201284833	7.4684388	1.111172731
ENSG0000	0	0	2.222345463
RPL21P90	3.301927249	0	0
INKA2-AS	2.201284833	4.149132667	0
ARHGAP4	2.201284833	0	0
SLC9A7P1	4.402569665	9.9579184	6.667036389
PKD1P2	38.52248457	82.98265334	81.11560939
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0	1.111172731
UGT1A11	3.301927249	0.829826533	6.667036389
PPIAP93	0	0	1.111172731
SEPTIN2P	0	0.829826533	5.555863657
DPY19L2P	1.100642416	0	0
ENSG0000	2.201284833	2.4894796	0
TEX46	3.301927249	9.9579184	0
MRLN	0	1.659653067	0
PSPC1P1	4.402569665	2.4894796	4.444690926
ATP6V0E1	2.201284833	0	0
ENSG0000	9.905781747	12.447398	0
PSMA2P3	2.201284833	0	0
WAPL-DT	6.603854498	6.638612267	0
SNAP25-A	1.100642416	0.829826533	0
IL6ST-DT	1.100642416	0	0
LINC0234	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
KRT8P44	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0

ENSG0000	0	0.829826533	0
MACROD2	2.201284833	4.149132667	0
SELENOO	0	2.4894796	0
ENSG0000	6.603854498	9.9579184	16.66759097
ENSG0000	1.100642416	0.829826533	0
RPL3P2	1.100642416	0	0
LINC0169	0	0	1.111172731
LINC0134	20.91220591	9.128091867	6.667036389
TARID	11.00642416	2.4894796	0
EPHA2-AS	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
RBM15-AS	0	1.659653067	0
BUB3P1	3.301927249	0	0
NR1H5P	1.100642416	0	0
ENSG0000	2.201284833	0	0
THAP12P3	1.100642416	0.829826533	2.222345463
PIN4P1	0	1.659653067	0
ENSG0000	0	3.319306133	0
RAB11AP1	0	0.829826533	1.111172731
DHX9P1	9.905781747	53.93872467	25.55697282
RPL36AP7	1.100642416	1.659653067	5.555863657
ENSG0000	1.100642416	0.829826533	0
ZNF680P1	17.61027866	0	0
RAPGEF4-	1.100642416	0	0
HNRNPA1	0	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
SPOPL-DT	1.100642416	9.9579184	1.111172731
POLR2J2	7.704496914	9.128091867	10.00055458
WBP11P3	0	0.829826533	1.111172731
RPL21P87	0	0.829826533	0
RANP5	0	0	2.222345463
SEC63P1	4.402569665	3.319306133	1.111172731
LINC0173	0	2.4894796	0
PABPC4-A	0	1.659653067	0
ENSG0000	3.301927249	2.4894796	0
LYPLAL1-	4.402569665	5.808785734	0
ENSG0000	0	0.829826533	0
LINC0151	2.201284833	0	0
RPL7P47	2.201284833	0	0
UBBP5	0	6.638612267	0
BOD1L2	2.201284833	3.319306133	3.333518194
ENSG0000	2.201284833	0	0
IFNA14	12.10706658	0.829826533	0

ENSG0000	1.100642416	2.4894796	0
ENSG0000	6.603854498	2.4894796	0
COX6CP1	0	5.808785734	0
ENSG0000	2.201284833	0	0
MTATP6P	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
SPTBN1-A	0	0.829826533	0
MELTF-AS	5.503212081	9.9579184	15.55641824
ST13P19	2.201284833	3.319306133	0
ENSG0000	8.80513933	5.808785734	11.11172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
MDN1-AS	0	0.829826533	0
AKIRIN1P	0	0	1.111172731
FALEC	2.201284833	2.4894796	0
LINC0164	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0149	0	0.829826533	0
ENSG0000	1.100642416	9.128091867	0
EFHD2-AS	1.100642416	12.447398	1.111172731
ENSG0000	2.201284833	1.659653067	0
CASP16P	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	2.4894796	8.889381852
TLE1P1	1.100642416	2.4894796	6.667036389
MTND1P1	12.10706658	9.9579184	1.111172731
ENSG0000	0	0.829826533	0
HNRNPA1	3.301927249	3.319306133	1.111172731
PPIAP19	2.201284833	7.4684388	7.77820912
ENSG0000	0	1.659653067	1.111172731
ENSG0000	3.301927249	3.319306133	0
GEMIN8P4	3.301927249	14.10705107	10.00055458
SNX19P1	2.201284833	1.659653067	4.444690926
ZNF691-D	9.905781747	5.808785734	3.333518194
PTPN2P1	8.80513933	19.08601027	12.22290005
OR2M3	6.603854498	0.829826533	31.11283648
ENSG0000	1.100642416	0	0
GRASLND	0	19.08601027	0
RPS3P3	2.201284833	6.638612267	14.44524551
OFD1P17	5.503212081	15.76670413	12.22290005
ENSG0000	0	1.659653067	0

PNRC2P1	4.402569665	2.4894796	1.111172731
ATF4P3	6.603854498	14.10705107	4.444690926
NPM1P30	0	0.829826533	0
LINC00578	51.73019357	1.659653067	1.111172731
NACA4P	0	2.4894796	0
ENSG0000	0	0.829826533	0
GAPDHP1	1.100642416	7.4684388	3.333518194
GLRXP1	1.100642416	0	0
TXNP5	1.100642416	0	0
ENSG0000	0	0	1.111172731
MOB1AP1	0	43.98080627	0
XPC-AS1	4.402569665	7.4684388	13.33407278
ENSG0000	0	5.808785734	0
COL6A4P2	2.201284833	1.659653067	0
MT-ATP8	775.9529035	2330.982732	33.33518194
ENSG0000	0	0.829826533	0
LINC01320	2.201284833	0	0
LINC02048	0	0	2.222345463
ENSG0000	29.71734524	21.57548987	20.00110917
UMLILO	0	0.829826533	0
ORM2	9.905781747	0.829826533	48.89160018
ENSG0000	1.100642416	0.829826533	0
KATNBL1	5.503212081	13.27722453	0
ENSG0000	0	0.829826533	0
PCAT6	9.905781747	22.4053164	3.333518194
IDH3B-DT	2.201284833	4.149132667	0
LINC00392	1.100642416	0	0
FAM174C	100.1584599	131.1125923	435.5797107
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	0	0
PRELID1P	13.207709	40.66150013	4.444690926
LINC01209	0	3.319306133	0
LINC01350	1.100642416	1.659653067	0
GUSBP11	100.1584599	68.04577574	96.67202764
MTATP6P	2.201284833	7.4684388	0
ENSG0000	0	0.829826533	0
GLIS3-AS2	0	0.829826533	0
MYADM-A	0	1.659653067	0
PGK1P1	2.201284833	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	6.603854498	0.829826533	4.444690926
OR9H1P	1.100642416	0.829826533	6.667036389
AMD1P1	0	0.829826533	0
MIR646HC	9.905781747	8.298265334	6.667036389

ENSG0000	0	0.829826533	0
EFCAB14I	0	4.149132667	0
LINC0258	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
CHMP3-A	2.201284833	3.319306133	5.555863657
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
RPS20P25	0	0.829826533	0
GAS2L1P2	0	0.829826533	0
ITPKB-IT1	3.301927249	4.149132667	0
ENSG0000	0	0	1.111172731
LINC0100	25.31477557	20.74566333	3.333518194
ENSG0000	12.10706658	41.49132667	37.77987287
CNTNAP5	0	9.9579184	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
LNC-LBC	5.503212081	26.55444907	0
REL-DT	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	4.444690926
LINC0068	1.100642416	1.659653067	0
ENSG0000	3.301927249	8.298265334	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
DHFRP2	0	0.829826533	0
OR7E23P	0	1.659653067	1.111172731
ENSG0000	139.7815869	50.61941854	30.00166375
RRAGC-D	35.22055732	26.55444907	43.33573653
UGT1A2P	9.905781747	6.638612267	17.7787637
ANKRD49	1.100642416	4.9789592	0
SDAD1P1	14.30835141	26.55444907	3.333518194
LINC0154	0	0.829826533	0
CYP2C59P	1.100642416	0	0
ENSG0000	5.503212081	4.9789592	4.444690926
TUBB4AP	0	0	6.667036389
ENSG0000	1.100642416	0	0
OST4	730.8265644	715.3104718	672.2595025
ENSG0000	2.201284833	2.4894796	1.111172731
ENSG0000	1.100642416	1.659653067	0
PRKCE-A	0	0	1.111172731
GRK5-IT1	2.201284833	3.319306133	0

RPL21P50	2.201284833	0	0
LINC0101	3.301927249	2.4894796	0
ENSG0000	1.100642416	0	0
RPL15P18	0	1.659653067	0
EEF1A1P1	9.905781747	2.4894796	6.667036389
PNISR-AS	8.80513933	14.9368776	0
DAP3P2	0	5.808785734	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	4.402569665	1.659653067	10.00055458
RANBP1P	0	3.319306133	1.111172731
DNAJB6P4	0	0.829826533	3.333518194
MIR34AH(	25.31477557	25.72462253	2.222345463
SUMO2P2	18.71092108	13.27722453	8.889381852
LYPLAL1-	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
CCDC183-	40.7237694	30.70358173	46.66925472
PMS2P12	3.301927249	0	0
OR7E26P	0	0	8.889381852
ITPKB-AS	0	1.659653067	0
ENSG0000	1.100642416	0	0
SNRPGP9	1.100642416	3.319306133	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	9.905781747	0	0
ENSG0000	3.301927249	8.298265334	1.111172731
VN1R4	2.201284833	1.659653067	0
NUTM2E	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
SPCS2P4	77.04496914	122.8143269	25.55697282
CFTRP1	0	0.829826533	0
FNDC10	34.11991491	49.789592	47.78042745
MTND4P1	0	0.829826533	0
MACC1-A	1.100642416	0	0
RPL7P52	2.201284833	0	0
POLR2CP1	0	0	1.111172731
ENSG0000	0	0.829826533	0
DCAF8-D1	4.402569665	8.298265334	0
HNF4GP1	0	0.829826533	1.111172731
HK2P1	1.100642416	0	20.00110917
ENSG0000	22.01284833	0.829826533	0
ENSG0000	0	0.829826533	0
ZNF883	25.31477557	94.6002248	14.44524551
HDAC2-AS	0	4.149132667	0

ENSG0000	0	0	1.111172731
ENSG0000	15.40899383	3.319306133	5.555863657
HOTAIR	2.201284833	4.149132667	0
ROCR	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
SNHG26	6.603854498	14.9368776	0
ENSG0000	1.100642416	0	0
HNRNPCP	14.30835141	0	0
ENSG0000	2.201284833	0	0
MYO5BP3	0	0	7.77820912
PSMD10P1	0	0.829826533	0
ENSG0000	0	0.829826533	0
TRGV5P	1.100642416	0	4.444690926
LINC00448	0	0.829826533	0
NANOGP2	1.100642416	0	2.222345463
PROB1	44.02569665	31.53340827	58.89215477
PPIAP59	1.100642416	0.829826533	2.222345463
TTC3-AS1	1.100642416	0	5.555863657
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ARL17B	161.7944352	523.6205426	184.4546734
ENSG0000	1.100642416	0.829826533	0
TNKS2-DT	0	0.829826533	0
ENSG0000	6.603854498	0	0
ENSG0000	0	0.829826533	3.333518194
ENSG0000	0	0.829826533	0
LINC02575	5.503212081	9.128091867	0
ENSG0000	0	0.829826533	0
ENSG0000	25.31477557	0	2.222345463
DHFR	53.9314784	143.5599903	11.11172731
NAB1P1	0	1.659653067	2.222345463
LINC02521	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	0	1.659653067	0
SPATA13.	13.207709	1.659653067	0
ENSG0000	1.100642416	0	0
EIF4BP2	1.100642416	0	1.111172731
RPL7L1P8	0	4.9789592	2.222345463
KRT8P18	1.100642416	0	2.222345463
MIR365BH	0	0.829826533	0
WEE2-AS1	0	0.829826533	0
ENSG0000	0	0	2.222345463
LINC00954	12.10706658	4.149132667	0

THRB-AS1	0	4.149132667	0
ENSG0000	0	0	3.333518194
ENSG0000	5.503212081	2.4894796	0
LINC0112	33.01927249	65.55629614	5.555863657
FAM207B	0	3.319306133	1.111172731
LINC0193	1.100642416	0	1.111172731
PCMTD1-I	18.71092108	34.02288787	3.333518194
ENSG0000	2.201284833	0	0
MRPS18C	3.301927249	0	2.222345463
HMGB3P4	0	1.659653067	0
PABPC1P1	1.100642416	0.829826533	0
LAMA5-A	1.100642416	1.659653067	0
AK3P5	0	0	2.222345463
BACH1-IT	15.40899383	15.76670413	1.111172731
ENSG0000	1.100642416	2.4894796	3.333518194
RPSAP1	0	0	3.333518194
PDE4DIPP	0	0.829826533	0
MIR4500H	14.30835141	12.447398	2.222345463
LAMTOR3	0	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	0	5.555863657
TLK2P2	60.5353329	9.128091867	4.444690926
ENSG0000	1.100642416	7.4684388	1.111172731
ATP5MFP1	0	0.829826533	2.222345463
ENSG0000	0	16.59653067	0
PIK3IP1-D	1.100642416	0	0
ENSG0000	0	0.829826533	0
ATP5MC2	5.503212081	20.74566333	4.444690926
NEGR1-IT	0	2.4894796	0
ACTR3-AS	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	5.503212081	1.659653067	4.444690926
MYLKP1	1.100642416	0.829826533	2.222345463
CSP1	1.100642416	0	0
SEPTIN7-I	5.503212081	11.61757147	3.333518194
RPL23AP2	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0142	0	0.829826533	0
UBAC2-AS	0	7.4684388	0
RASA4CP	1.100642416	1.659653067	2.222345463
LINC0134	2.201284833	0	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	0	0.829826533	0
RPS13P2	15.40899383	43.15097974	34.44635467

ENSG0000	17.61027866	57.2580308	4.444690926
ENSG0000	1.100642416	0	0
SNRPD2P1	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	0
UBE3AP2	1.100642416	1.659653067	4.444690926
ENSG0000	1.100642416	0	0
UGT1A12I	0	1.659653067	4.444690926
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
SATB1-AS	8.80513933	4.149132667	2.222345463
ENSG0000	1.100642416	0	0
LINC0169(	0	4.9789592	0
LINC0260'	0	4.9789592	3.333518194
ENSG0000	0	1.659653067	0
PPIAP55	2.201284833	0.829826533	0
LINC0120:	0	43.98080627	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
PHF10P1	2.201284833	0.829826533	0
MTND1P9	0	0.829826533	0
PERPP2	3.301927249	1.659653067	1.111172731
ENSG0000	0	1.659653067	0
SEPTIN7P	0	2.4894796	0
EXOSC3P1	8.80513933	3.319306133	7.77820912
LINC0103(	1.100642416	0	0
RPL30P13	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
LINC0127'	5.503212081	3.319306133	5.555863657
PMS2P7	12.10706658	2.4894796	2.222345463
ENSG0000	4.402569665	0	0
ENSG0000	0	0.829826533	1.111172731
RPL6P3	0	0	1.111172731
RAB1AP1	27.51606041	9.128091867	2.222345463
ENSG0000	0	1.659653067	0
SPRR2C	0	0.829826533	0
VDAC1P8	2.201284833	5.808785734	0
MRPL32P2	2.201284833	0	0
ZFAND2A	2.201284833	5.808785734	2.222345463
ENSG0000	0	2.4894796	0
LINC0178(	1.100642416	0	0
HECW2-A	2.201284833	0.829826533	0
RPS3AP54	0	0.829826533	0
ENSG0000	7.704496914	20.74566333	0
ENSG0000	1.100642416	2.4894796	1.111172731

OR5AW1P	0	0.829826533	1.111172731
PSMA6P2	0	1.659653067	0
RPS26P18	2.201284833	2.4894796	0
ANKRD20	18.71092108	9.9579184	8.889381852
ENSG0000	0	0.829826533	0
HSPA8P8	0	1.659653067	1.111172731
CALM2P2	0	2.4894796	0
ELOCP20	1.100642416	0	0
PIK3CA-D	0	0.829826533	0
BTBD6P1	3.301927249	0	0
ABHD17A	1.100642416	0.829826533	0
FRMD3-AS	7.704496914	20.74566333	1.111172731
MED4-AS1	1.100642416	0.829826533	0
RPL41	1180.989313	1138.522004	928.9404035
RPLP0P9	22.01284833	27.3842756	43.33573653
AGBL5-IT	0	0	1.111172731
VIM-AS1	8.80513933	12.447398	104.4502368
KANSL1L	53.9314784	32.3632348	25.55697282
EIF4A1P1(	4.402569665	19.08601027	17.7787637
RPS7P4	1.100642416	2.4894796	0
CCDC26	5.503212081	6.638612267	2.222345463
SMPD4P2	0	1.659653067	0
ENSG0000	0	1.659653067	0
ANKRD10	17.61027866	26.55444907	0
KCNQ5-AS	6.603854498	0.829826533	0
TCP1P1	7.704496914	13.27722453	0
RUNX3-AS	0	2.4894796	0
GDI2P1	1.100642416	0	0
ENSG0000	0	0	1.111172731
SRMP3	0	0.829826533	0
MRPS16P1	0	0	1.111172731
ATP5PDP2	2.201284833	0.829826533	3.333518194
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	2.4894796	1.111172731
LINC0300	2.201284833	0	0
PTGES3P3	2.201284833	7.4684388	2.222345463
SERPINH1	2.201284833	4.149132667	2.222345463
ENSG0000	1.100642416	0	0
KCTD9P6	0	0.829826533	0
CYCSP11	1.100642416	0	0
ENSG0000	1.100642416	0	0

HNRNPA1	0	3.319306133	0
KRT18P4	11.00642416	5.808785734	1.111172731
MT1P3	0	1.659653067	0
RPL37P18	7.704496914	10.78774493	1.111172731
TTTY10	7.704496914	0.829826533	0
HMGN1P3	3.301927249	4.9789592	0
PPP1R12B	4.402569665	0	0
LINC0071(	1.100642416	0	0
PNPT1P1	0	4.9789592	11.11172731
LINC0198	0	1.659653067	0
LINC0037	0	0.829826533	0
HNRNPA1	6.603854498	3.319306133	18.88993643
ST13P13	1.100642416	2.4894796	0
ENSG0000	0	3.319306133	0
LPGAT1-A	0	1.659653067	0
LRRC37A	1.100642416	0	0
ENSG0000	0	0.829826533	0
SNHG31	3.301927249	14.10705107	0
ENSG0000	2.201284833	0	0
LINC0303(	1.100642416	2.4894796	0
ENSG0000	3.301927249	4.149132667	0
REV3L-IT	6.603854498	4.149132667	1.111172731
EEF1DP6	0	0.829826533	0
FABP5P4	0	3.319306133	0
LINC0276	0	0.829826533	2.222345463
RFPL4AL1	3.301927249	3.319306133	26.66814555
ENSG0000	1.100642416	0	0
TUBB8P1	0	0.829826533	0
ZBTB46-A	2.201284833	4.149132667	0
PPIAP25	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ORM1	19.81156349	2.4894796	3.333518194
KRT8P12	7.704496914	7.4684388	4.444690926
ENSG0000	22.01284833	49.789592	10.00055458
ENSG0000	2.201284833	0	0
NUTF2P7	1.100642416	0	0
ACAP2-IT	1.100642416	12.447398	0
RPL17P15	1.100642416	0	0
ENSG0000	0	1.659653067	0
PGBD4P8	1.100642416	2.4894796	0
TMEM44-A	1.100642416	3.319306133	0
SREK1IP1	0	0.829826533	1.111172731
ENSG0000	3.301927249	14.10705107	2.222345463

NME2P3	0	1.659653067	0
MTCO2P1	1.100642416	12.447398	0
HYI-AS1	1.100642416	0	0
ACTG1P9	0	0.829826533	0
LRRC3-DT	2.201284833	0.829826533	0
DPY19L1P	31.91863007	41.49132667	18.88993643
PIN1P1	3.301927249	0	0
UBTFL7	1.100642416	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
SZT2-AS1	19.81156349	6.638612267	2.222345463
LINC0045	0	1.659653067	0
ENSG0000	0	2.4894796	0
TAF12-DT	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	2.222345463
LINC0085	1.100642416	2.4894796	1.111172731
ENSG0000	2.201284833	0	0
SFTA3	1.100642416	482.1292159	0
RALGAPA	160.6937928	129.4529392	242.2356555
ENSG0000	0	5.808785734	5.555863657
ENSG0000	1.100642416	1.659653067	1.111172731
ANKRD26	0	4.9789592	0
MED8-AS1	1.100642416	0	0
LINC0206	0	0.829826533	0
PIP5K1P2	2.201284833	0	0
THEMIS3	0	0.829826533	0
ENSG0000	0	7.4684388	0
SPINK8	3.301927249	0	0
WDR4P2	0	0	1.111172731
RGS17P1	12.10706658	2.4894796	1.111172731
PATL2	40.7237694	9.128091867	15.55641824
ROBO2P1	0	0	1.111172731
LINC0276	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	4.149132667	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	0.829826533	0
RPL17P1	0	1.659653067	0
ENSG0000	0	1.659653067	0
LINC0040	0	0.829826533	0
MYCBP2-A	2.201284833	0	0

DNPEP-AS	1.100642416	0	0
RABGAP1	0	0.829826533	0
ENSG0000	1.100642416	0	4.444690926
HNRNPA1	2.201284833	1.659653067	6.667036389
PANK2-AS	7.704496914	15.76670413	0
NKX1-2	1.100642416	4.149132667	2.222345463
ENSG0000	0	1.659653067	0
RPL21P24	0	0	3.333518194
SACS-AS1	0	0.829826533	0
ZFYVE9P1	1.100642416	0.829826533	6.667036389
ENSG0000	1.100642416	8.298265334	3.333518194
ENSG0000	2.201284833	0.829826533	1.111172731
GAPDHP5	1.100642416	0	0
PBX3-DT	1.100642416	0.829826533	0
RPL21P44	0	3.319306133	1.111172731
TNPO1P3	6.603854498	3.319306133	3.333518194
ENSG0000	3.301927249	5.808785734	0
ENSG0000	2.201284833	0.829826533	0
ACVR2B-A	0	7.4684388	1.111172731
ENSG0000	8.80513933	1.659653067	0
SUCLA2P1	0	0.829826533	0
ENSG0000	0	1.659653067	3.333518194
PRDX3P1	0	0	2.222345463
ENSG0000	1.100642416	0	0
RPL21P93	2.201284833	1.659653067	2.222345463
LINC01718	0	1.659653067	0
GOLGA2P	1.100642416	0	1.111172731
LINC0285	0	1.659653067	0
LINC0150	0	0	2.222345463
ENSG0000	0	1.659653067	0
MBNL1-A	24.21413316	7.4684388	0
MTND5P2	9.905781747	7.4684388	1.111172731
METTL21	0	2.4894796	3.333518194
ENSG0000	2.201284833	0.829826533	0
PIGCP2	0	0	2.222345463
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
PRAC2	18.71092108	0	201.1222644
RPL4P4	60.5353329	68.87560227	101.1167186
NAMPTP1	178.3040714	139.4108576	51.11394565
MYOSLID	2.201284833	1.659653067	0
RPSAP22	0	0	2.222345463
LINC0268	2.201284833	0	0
LINC0252	1.100642416	0	0

ITGB1-DT	0	1.659653067	0
RPL13AP1	1.100642416	0	0
RPL26P6	1.100642416	0	1.111172731
DPY19L4P	2.201284833	2.4894796	0
MAST4-AS	2.201284833	1.659653067	0
PKP4P1	14.30835141	2.4894796	3.333518194
ENSG0000	0	1.659653067	0
ZNF492	6.603854498	128.6231127	3.333518194
RPL17P28	2.201284833	0	0
CRPPA-AS	0	1.659653067	0
SKP2P1	0	0.829826533	0
ENSG0000	1.100642416	0	0
RPL29P17	1.100642416	2.4894796	5.555863657
LYPD9P	4.402569665	0	0
EIF2S2P2	3.301927249	2.4894796	1.111172731
ENSG0000	1.100642416	0	0
LCEP2	0	0.829826533	2.222345463
ENSG0000	0	0	1.111172731
MIR194-2H	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	4.9789592	1.111172731
ENSG0000	1.100642416	0.829826533	0
FTLP16	0	0.829826533	0
PDC-AS1	5.503212081	14.9368776	1.111172731
LINC0115	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
DYNLT3P	0	0.829826533	0
MRPS18A	3.301927249	4.149132667	4.444690926
ENSG0000	1.100642416	0	1.111172731
TMX4-AS	4.402569665	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
UBE2Q1-A	1.100642416	0	0
SLC25A38	0	0	6.667036389
LINC0039	1.100642416	0	0
MTCYBP3	5.503212081	12.447398	2.222345463
ENSG0000	0	1.659653067	0
KRT18P26	0	0.829826533	0
ATP8A2P2	0	0	1.111172731
RPS15P5	0	0	12.22290005
XIST	0	2.4894796	0
ENSG0000	0	1.659653067	0
ZNF688	58.33404806	59.7475104	57.78098203
RPL35AP2	2.201284833	2.4894796	4.444690926

CCNB1IP1	1.100642416	0	0
DDX50P1	24.21413316	9.9579184	7.77820912
ENSG0000	3.301927249	0.829826533	1.111172731
DNAJC8P4	1.100642416	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
PDE4DIPP	0	0	10.00055458
ENSG0000	0	0.829826533	0
PET100	26.41541799	27.3842756	62.22567296
ENSG0000	0	0.829826533	0
EMX2OS	15.40899383	9.9579184	6.667036389
PYHIN5P	1.100642416	0	2.222345463
ARSD-AS1	0	0	1.111172731
KHDC1-AS	13.207709	22.4053164	3.333518194
PGA3	1.100642416	0.829826533	0
EEF1A1-A	1.100642416	0	0
STEAP3-A	1.100642416	0	0
OGFR-AS1	0	0.829826533	0
CASC20	0	15.76670413	0
IMMTP1	8.80513933	5.808785734	0
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	19.81156349	3.319306133	0
LINC01315	3.301927249	3.319306133	0
TAX1BP1-	0	1.659653067	1.111172731
GK3	0	0	4.444690926
ENSG0000	1.100642416	1.659653067	0
SEPTIN7P	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
RPL7P46	1.100642416	2.4894796	5.555863657
ELOCP3	0	0.829826533	0
KIF25-AS1	0	0.829826533	0
IL9RP1	0	0.829826533	0
RHEBP1	1.100642416	4.149132667	0
ATXN1-AS	7.704496914	3.319306133	1.111172731
YWHAZP3	2.201284833	32.3632348	15.55641824
PRPS1L1	2.201284833	1.659653067	16.66759097
PDE11A-A	0	2.4894796	4.444690926
ENSG0000	0	0.829826533	0
EIF4EP2	137.580302	199.158368	58.89215477
B3GALNT	0	0	5.555863657
TFAP2A-A	8.80513933	4.9789592	31.11283648
FOSL2-AS	1.100642416	0.829826533	0
BCAN-AS2	0	4.9789592	0

MTND2P2	6.603854498	11.61757147	0
ENSG0000	1.100642416	4.149132667	0
ZRANB2-I	9.905781747	40.66150013	2.222345463
ENSG0000	0	3.319306133	0
RPS3AP7	0	1.659653067	1.111172731
MAGEA4-	0	0.829826533	0
TOB1-AS1	4.402569665	4.9789592	1.111172731
LINC0143	0	1.659653067	0
GTF3AP6	1.100642416	0	0
ENSG0000	0	4.149132667	0
MIR181A1	9.905781747	13.27722453	0
HMGB3P9	1.100642416	0	0
RPL5P4	14.30835141	15.76670413	6.667036389
SGSM3-AS	0	0	1.111172731
ENSG0000	1.100642416	0	0
SNAP47-A	0	0.829826533	0
ENSG0000	0	2.4894796	0
CT70	2.201284833	0.829826533	0
ENSG0000	9.905781747	6.638612267	12.22290005
FNTAP2	2.201284833	0	0
IGSF21-AS	0	0.829826533	0
AK3P3	4.402569665	0	3.333518194
TMSB4XP	7.704496914	19.08601027	0
BIRC6-AS	0	1.659653067	0
TRPM2-AS	6.603854498	24.06496947	1.111172731
ANKRD66	1.100642416	4.149132667	0
ENSG0000	3.301927249	4.149132667	0
HSPD1P6	0	2.4894796	1.111172731
CDC42-IT1	2.201284833	4.149132667	0
LRRC37A1	4.402569665	4.9789592	7.77820912
RPL4P6	1.100642416	2.4894796	0
ENSG0000	7.704496914	21.57548987	7.77820912
RPL10P6	170.5995745	120.3248473	111.1172731
MTAPP2	11.00642416	0.829826533	5.555863657
STK24P1	0	0	1.111172731
HSPE1P28	4.402569665	5.808785734	0
PRRT3-AS	17.61027866	4.149132667	26.66814555
ZBTB47-A	4.402569665	0.829826533	1.111172731
TMEM254	6.603854498	3.319306133	0
ENSG0000	0	0.829826533	0
ME2P1	3.301927249	0	1.111172731
TCERG1L-	0	1.659653067	0
TRBV5-4	4.402569665	0	0
LINC02028	13.207709	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
DLEC1P1	1.100642416	0	0
ACBD6	458.9678876	672.159492	432.2461925
MTND2P3	0	10.78774493	0
LINC0264	1.100642416	10.78774493	2.222345463
LINC0172	2.201284833	0	0
SEPHS1P4	1.100642416	0.829826533	3.333518194
ENSG0000	2.201284833	2.4894796	1.111172731
HOXB-AS	34.11991491	14.10705107	11.11172731
ENSG0000	2.201284833	0.829826533	0
AIDAP1	9.905781747	15.76670413	27.77931829
CEP250-A	9.905781747	0	0
LINC0044	1.100642416	0	0
ENSG0000	0	0.829826533	0
CT45A11P	0	2.4894796	0
AURKAP2	12.10706658	2.4894796	4.444690926
HNRNPA1	0	0	1.111172731
LINC0179	0	0.829826533	0
ENSG0000	0	0.829826533	0
OR4F3	0	0	7.77820912
CNOT6LP	31.91863007	46.47028587	27.77931829
SMYD3-IT	4.402569665	2.4894796	1.111172731
HSDL2-AS	8.80513933	5.808785734	4.444690926
ENSG0000	1.100642416	0	0
RPL21P83	1.100642416	0.829826533	0
RABGEF1	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
ATP6V0CI	0	0	1.111172731
RPL29P4	61.63597531	34.02288787	62.22567296
RPL4P5	0	2.4894796	5.555863657
HSPB1P2	1.100642416	0	0
CIBAR1P2	1.100642416	0.829826533	0
ENSG0000	2.201284833	4.149132667	8.889381852
ATXN8OS	2.201284833	0	0
MTND5P1	17.61027866	6.638612267	0
H3P1	0	1.659653067	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
SPATA31C	16.50963624	6.638612267	28.89049102
HNRNPH3	0	0	1.111172731

PHB1P4	0	1.659653067	0
NFE4	0	2.4894796	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	0	0
LINC0260	0	0	1.111172731
XXYLT1-A	0	0.829826533	0
HERC2P4	1.100642416	0	0
BRI3P3	0	0	7.77820912
PGAM1P3	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	86.95075089	138.5810311	60.0033275
GTF2IP23	1.100642416	0	0
OR5H6	4.402569665	1.659653067	1.111172731
ENSG0000	9.905781747	9.128091867	7.77820912
ENSG0000	2.201284833	0.829826533	1.111172731
BANF1P2	4.402569665	0	0
LINC0292	0	1.659653067	0
TOMM20F	0	0.829826533	0
SLC25A53	0	7.4684388	5.555863657
ELOVL2-A	0	1.659653067	0
FEZF1-AS	7.704496914	4.149132667	4.444690926
XRCC6P3	0	0	1.111172731
BEND7P1	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	0
MTCO1P4	0	0.829826533	0
ENSG0000	0	0.829826533	0
HMGN2P3	0	3.319306133	4.444690926
ENSG0000	2.201284833	10.78774493	7.77820912
EXOSC10-	0	1.659653067	1.111172731
NCAPD2P	0	0	2.222345463
SPDYE21	3.301927249	0.829826533	4.444690926
TPI1P2	1.100642416	6.638612267	2.222345463
DDX10P2	2.201284833	2.4894796	11.11172731
RPL4P3	0	0.829826533	0
ENSG0000	0	0.829826533	0
DSCR9	2.201284833	0	0
FAM41C	1.100642416	2.4894796	3.333518194
GOLGA6L	19.81156349	1.659653067	10.00055458
GSTA11P	2.201284833	2.4894796	0
RPL6P19	121.0706658	106.2177963	68.89270935
ENSG0000	0	6.638612267	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	1.100642416	19.9158368	1.111172731

ENSG0000	4.402569665	6.638612267	17.7787637
ANAPC1P	4.402569665	1.659653067	1.111172731
SPTLC1P1	13.207709	6.638612267	0
HINT2P1	1.100642416	0	0
LINC0174	0	0.829826533	0
LINC0134	1.100642416	0	0
RPL23P5	0	0.829826533	0
TCEA1P2	211.3233439	252.2672661	85.56030032
OR3D1P	0	1.659653067	0
LINC0178	1.100642416	0	0
LINC0059	1.100642416	8.298265334	0
EMC1-AS1	16.50963624	9.128091867	2.222345463
LINC0103	17.61027866	3.319306133	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	0	5.808785734	0
ASB15-AS	1.100642416	0.829826533	14.44524551
TFAMP1	1.100642416	0.829826533	0
LRRC37A	8.80513933	4.149132667	12.22290005
CTF2P	0	0.829826533	0
LINC0027	1.100642416	1.659653067	0
NEK2P4	0	0	3.333518194
LINC0138	0	0.829826533	0
ANKRD18	71.54175706	198.3285415	21.1122819
ENSG0000	11.00642416	6.638612267	3.333518194
PA2G4P4	7.704496914	5.808785734	10.00055458
PROX1-AS	1.100642416	33.19306133	2.222345463
CLUHP5	1.100642416	0	0
ENSG0000	2.201284833	6.638612267	0
RPL34P11	2.201284833	0	1.111172731
IGKV1OR2	0	0	4.444690926
ENSG0000	1.100642416	2.4894796	0
OR51A10P	0	0	1.111172731
ENSG0000	0	0.829826533	0
PSMG3-AS	12.10706658	9.128091867	2.222345463
ENSG0000	11.00642416	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	2.222345463
THAP7-AS	23.11349074	14.9368776	13.33407278
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
HMGB1P4	0	0.829826533	0
MBD3L2	0	0	2.222345463
LINC0179	1.100642416	0	0
CEACAMI	0	0	1.111172731

LIMD1-AS	11.00642416	0.829826533	0
ENSG0000	16.50963624	17.4263572	10.00055458
ENSG0000	0	0.829826533	0
LINC0293	3.301927249	6.638612267	2.222345463
SNX3P1X	0	0	1.111172731
USP17L1	3.301927249	0.829826533	10.00055458
ERLNC1	0	0	3.333518194
ENSG0000	52.83083598	46.47028587	13.33407278
ENSG0000	2.201284833	0	0
LINC0291	4.402569665	7.4684388	4.444690926
CCDC192	2.201284833	0.829826533	10.00055458
FAM133D	1.100642416	0	0
CALM1P2	0	0.829826533	0
ZNF32-AS	1.100642416	0	0
SF3A3P1	4.402569665	23.23514293	15.55641824
ENSG0000	2.201284833	0.829826533	8.889381852
ENSG0000	0	4.9789592	0
ACTG1P1	8.80513933	9.9579184	22.22345463
GTF2IRD1	0	0	1.111172731
CCT5P2	0	0	4.444690926
LINC0258	4.402569665	4.9789592	0
FTX	757.2419824	813.2300027	164.4535643
RPSAP8	1.100642416	3.319306133	6.667036389
PPIAP40	0	2.4894796	0
TEX48	0	0.829826533	1.111172731
APPAT	7.704496914	0.829826533	0
HMGB1P2	0	0.829826533	0
HM13-AS1	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	0	0	13.33407278
ENSG0000	0	0.829826533	0
RPS23P8	3.301927249	3.319306133	1.111172731
DNM3OS	11.00642416	3.319306133	1.111172731
FAM136EI	1.100642416	0	2.222345463
ENSG0000	1.100642416	0	0
LINC0181	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	22.01284833	8.298265334	5.555863657
RGPD4-AS	1.100642416	0.829826533	0
KLHL7-DT	2.201284833	8.298265334	0
THAP12P1	1.100642416	2.4894796	1.111172731

SETSIP	11.00642416	15.76670413	15.55641824
ENSG0000	1.100642416	0	0
NDUFS5P5	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENO1-AS1	1.100642416	0	0
GRPEL2P3	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
MRPL35P4	0	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
FN1-DT	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	9.128091867	1.111172731
FBXW4P1	2.201284833	9.9579184	3.333518194
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	3.319306133	0
LINC00332	0	1.659653067	0
CTAGE13I	1.100642416	1.659653067	8.889381852
GGTLC4P	0	0	1.111172731
RPL17P5	1.100642416	0	1.111172731
LINC0100	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	22.4053164	1.111172731
RPL10P3	4.402569665	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
SDAD1P2	8.80513933	6.638612267	1.111172731
ENSG0000	1.100642416	2.4894796	0
ZNF341-A	0	0.829826533	0
RHOQP3	2.201284833	4.149132667	2.222345463
NFU1P1	0	0.829826533	2.222345463
RFKP4	3.301927249	6.638612267	1.111172731
VN1R108P	0	1.659653067	0
ENSG0000	0	6.638612267	0
RPS29P5	1.100642416	0	0
ANKRD63	13.207709	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
RPS3AP13	0	3.319306133	0
ENSG0000	1.100642416	0	0
ARHGAP2	2.201284833	1.659653067	0

SMARCE1	3.301927249	3.319306133	5.555863657
YY2	6.603854498	2.4894796	1.111172731
FOXD3-AS	2.201284833	22.4053164	0
RPS2P16	0	0	1.111172731
ENSG0000	0	7.4684388	0
ENSG0000	4.402569665	10.78774493	0
LINC0136	1.100642416	0	0
CBX1P1	20.91220591	4.9789592	6.667036389
LINC0301	5.503212081	4.149132667	0
SSBL4P	12.10706658	11.61757147	3.333518194
RPEP3	3.301927249	4.149132667	10.00055458
RPL31P2	0	0.829826533	0
LINC0161	0	4.149132667	0
ZNF674-A	5.503212081	22.4053164	1.111172731
GSTA10P	0	0	3.333518194
OCLNP1	5.503212081	9.128091867	7.77820912
GOT2P2	5.503212081	4.9789592	28.89049102
LINC0285	1.100642416	0	0
RPL10P11	0	0.829826533	0
ENSG0000	0	3.319306133	8.889381852
ENSG0000	0	0.829826533	0
TSEN15P1	0	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
AGAP10P	17.61027866	8.298265334	53.33629111
FBXW11P	11.00642416	16.59653067	22.22345463
STMND1	7.704496914	6.638612267	4.444690926
LINC0048	3.301927249	0	1.111172731
ENSG0000	9.905781747	1.659653067	4.444690926
HMGB1P2	0	0.829826533	0
SHC1P1	0	1.659653067	2.222345463
LINC0069	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	2.201284833	5.808785734	0
RPS18P12	0	1.659653067	5.555863657
ADGRB3-I	3.301927249	11.61757147	0
PPIHP1	1.100642416	0	0
KIF19BP	3.301927249	1.659653067	0
MTCO1P5	0	0.829826533	0
DPP4-DT	8.80513933	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	48.42826632	50.61941854	0
LINC0030	0	0	1.111172731
ENSG0000	1.100642416	0	0
TMBIM7P	5.503212081	1.659653067	0

ENSG0000	1.100642416	4.9789592	0
ENSG0000	1.100642416	0	4.444690926
MIR205HC	264.1541799	1.659653067	0
HMGN1P5	0	1.659653067	0
LINC0254	1.100642416	0	0
LINC0150	5.503212081	0	0
HNRNPA1	1.100642416	0	0
ENSG0000	0	1.659653067	0
AURKBP1	1.100642416	0	3.333518194
GPS2P2	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0209	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	2.222345463
DDX3P2	0	4.9789592	0
ENSG0000	4.402569665	1.659653067	0
HSBP1	19.81156349	64.7264696	4.444690926
MTND5P8	0	0	2.222345463
RPL7P32	2.201284833	4.149132667	1.111172731
CDC20P1	2.201284833	29.8737552	13.33407278
CUBNP1	0	0.829826533	2.222345463
ENSG0000	0	4.149132667	0
RPS27P10	1.100642416	0	0
LINC0032	0	0.829826533	0
AHI1-DT	39.62312699	25.72462253	1.111172731
LINC0180	1.100642416	8.298265334	0
RPL7L1P9	15.40899383	1.659653067	0
LINC0191	1.100642416	0.829826533	0
ENSG0000	5.503212081	5.808785734	5.555863657
GCNT1P3	1.100642416	2.4894796	2.222345463
GNB1-DT	4.402569665	4.9789592	1.111172731
ENSG0000	1.100642416	0.829826533	0
NEK2-DT	0	3.319306133	0
MSANTD2	0	0	2.222345463
FARSBP1	1.100642416	0	2.222345463
RPL6P6	0	0.829826533	0
THBS3-AS	14.30835141	87.96161254	23.33462736
ENSG0000	0	0	4.444690926
OR52Y1P	1.100642416	0	0

ENSG0000	0	0.829826533	0
HCG18	1.100642416	0	0
ENSG0000	0	1.659653067	5.555863657
LINC0265	0	0.829826533	0
TSSK1A	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
GYG1P3	1.100642416	1.659653067	0
NDUFB4P	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	3.333518194
ECE1-AS1	0	1.659653067	4.444690926
LINC0143	0	0.829826533	0
PRELID3B	0	0	1.111172731
LINC0297	3.301927249	18.25618373	1.111172731
ENSG0000	0	0.829826533	0
SPATA20	0	1.659653067	0
ENSG0000	0	2.4894796	0
LNCARO	1.100642416	0.829826533	0
HAR1B	0	1.659653067	0
RBM22P5	1.100642416	0	0
ENSG0000	0	0.829826533	0
DNAH8-A	122.1713082	0	41.11339106
ENSG0000	0	0.829826533	0
MORF4L2	3.301927249	5.808785734	0
PTP4A1P1	0	0	1.111172731
KLF3-AS1	5.503212081	0.829826533	4.444690926
COX11P1	0	0	1.111172731
RPL7P56	1.100642416	0	0
TRBV26O	0	1.659653067	0
TUBB4BP	1.100642416	0	0
YBX1P2	2.201284833	4.149132667	1.111172731
EEF1B2P1	4.402569665	0.829826533	1.111172731
LINC0109	0	0.829826533	0
LINC0172	1.100642416	0.829826533	0
LINC0085	7.704496914	10.78774493	2.222345463
ENSG0000	1.100642416	4.149132667	0
CCNQP3	1.100642416	1.659653067	0
SPRY4-AS	1.100642416	3.319306133	0
SYT15-AS	4.402569665	0.829826533	46.66925472
ENSG0000	1.100642416	0	0
OR5H1	7.704496914	1.659653067	7.77820912
FARP1-AS	3.301927249	0	2.222345463
TRGVB	8.80513933	0	0
KRT8P10	5.503212081	0.829826533	0

HNRNPA1	0	0.829826533	0
PLSCR5	2.201284833	0.829826533	5.555863657
GS1-600G8	5.503212081	0.829826533	0
LINC0159	0	1.659653067	0
ENSG0000	0	0.829826533	0
ARPP19P1	0	1.659653067	0
LINC0142	1.100642416	0	0
CFAP58-D	1.100642416	0	0
CTNNBL1	1.100642416	0	0
RPS3AP3	0	4.9789592	0
PSMC1P3	1.100642416	0	4.444690926
C1DP1	5.503212081	3.319306133	2.222345463
LINC0288	4.402569665	2.4894796	3.333518194
ITPR1-DT	7.704496914	0.829826533	4.444690926
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
LINC0164	0	0.829826533	0
CFAP97D1	0	1.659653067	0
HMGN2P1	0	0.829826533	0
TRERNA1	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
SBK3	2.201284833	2.4894796	6.667036389
E2F4P1	1.100642416	0	0
SALL4P6	0	0	4.444690926
APCDD1L	1.100642416	1.659653067	0
IGKV1OR2	6.603854498	4.9789592	32.22400921
EZH2P1	0	3.319306133	0
SGO1-AS1	6.603854498	7.4684388	12.22290005
IFT122P3	14.30835141	17.4263572	14.44524551
RPS3P2	9.905781747	4.9789592	0
TBL1XR1-	0	0.829826533	0
MAP4K3-I	13.207709	14.9368776	6.667036389
CLIC1P1	2.201284833	0	13.33407278
ENSG0000	0	2.4894796	0
ENSG0000	6.603854498	0	1.111172731
LINC0181	0	5.808785734	0
ENSG0000	0	1.659653067	17.7787637
RPL34P6	0	0	1.111172731
ENSG0000	0	0.829826533	0
VDAC1P6	1.100642416	0	0
ENSG0000	0	0.829826533	0
BEND3P1	1.100642416	0	2.222345463
LINC0116	3.301927249	0.829826533	0
WBP1P1	4.402569665	1.659653067	0

RPL31P34	0	0.829826533	1.111172731
RPL39P17	3.301927249	2.4894796	0
WARS2-A	45.12633907	89.6212656	38.8910456
LINC0261	5.503212081	1.659653067	1.111172731
RPL15P22	0	0	4.444690926
NAP1L5P1	1.100642416	0.829826533	0
MOB4P1	1.100642416	0	0
FMN2P1	1.100642416	0	2.222345463
ARL4AP4	0	0.829826533	0
ENSG0000	0	0	4.444690926
ENSG0000	1.100642416	7.4684388	0
GORAB-A	0	4.149132667	0
RPL36AP8	0	0.829826533	0
LINC0307	0	3.319306133	0
RPL39P15	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
LINC0068	1.100642416	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
FILNC1	0	0.829826533	1.111172731
FAR2P4	37.42184215	0	0
HSP90AA3	3.301927249	0.829826533	0
LINC0175	8.80513933	3.319306133	0
WASIR2	0	0.829826533	0
LARP1BP1	2.201284833	0.829826533	1.111172731
PPP4R2P2	1.100642416	0	0
TIMM8AP	0	0.829826533	0
LINC0130	1.100642416	0.829826533	0
RNASEH1	6.603854498	4.9789592	0
PPP4R2P3	0	2.4894796	0
ENSG0000	12.10706658	9.9579184	0
PRDX3P2	2.201284833	0	1.111172731
RB1-DT	1.100642416	0	0
IGHV4-31	2.201284833	0	6.667036389
ENSG0000	6.603854498	0.829826533	0
ENSG0000	0	0.829826533	0
RPL7L1P2	7.704496914	0	0
JKAMPP1	0	0.829826533	0
PTMAP4	14.30835141	17.4263572	1.111172731
ENSG0000	0	0.829826533	0
LINC0135	2.201284833	0	0
RPL34P20	0	0	1.111172731
LINC0278	0	0.829826533	0
CBX1P5	1.100642416	0	0

SEPTIN14	2.201284833	0	0
FAM27C	1.100642416	6.638612267	0
FAM225A	0	1.659653067	0
ENSG0000	0	0.829826533	0
HINT1P1	0	4.149132667	6.667036389
LINC0124	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	1.111172731
FBXO36-I	2.201284833	4.9789592	0
LINC0027	4.402569665	1.659653067	1.111172731
RPS6P2	0	0.829826533	0
RSL24D1P	0	0.829826533	0
RPL3P5	0	0	1.111172731
OR55B1P	1.100642416	0.829826533	0
ATP5MKP	0	0.829826533	0
IGBP1P3	3.301927249	0	0
MRM3P1	1.100642416	0.829826533	0
CLEC12A-	1.100642416	0	1.111172731
CEACAMI	1.100642416	4.9789592	6.667036389
ENSG0000	14.30835141	13.27722453	32.22400921
NEK2P2	0	0	1.111172731
LINC0259	1.100642416	4.149132667	0
LINC0201	3.301927249	0	0
MTCO2P2	1.100642416	0	0
RPL7P21	4.402569665	0	0
ENSG0000	0	0.829826533	0
SNORD62	3.301927249	4.9789592	0
SHQ1P1	0	0	3.333518194
ENSG0000	0	0.829826533	0
DLEU2	23.11349074	66.38612267	3.333518194
EHBP1-AS	5.503212081	3.319306133	11.11172731
PIK3CDP1	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
RPS29P7	1.100642416	0	0
LUARIS	1.100642416	2.4894796	0
KRT17P6	1.100642416	0.829826533	6.667036389
FSIP2-AS1	18.71092108	13.27722453	17.7787637
LINC0169	1.100642416	0	0
SPATA31I	1.100642416	2.4894796	36.66870014
RFESDP1	0	1.659653067	0
DLG3-AS1	1.100642416	0.829826533	0
CD109-AS	0	1.659653067	0
COA6-AS1	3.301927249	9.9579184	0
OR7E111P	0	0	2.222345463

PPP2R2DP	0	0	1.111172731
LINC0130	0	0.829826533	0
DIRC3	15.40899383	19.08601027	7.77820912
LINC0189	1.100642416	0	0
EIF1P3	0	0.829826533	2.222345463
ANKRD11	24.21413316	22.4053164	21.1122819
LINC0109	3.301927249	2.4894796	1.111172731
LINC0057	0	0.829826533	0
NANOGP5	16.50963624	6.638612267	2.222345463
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	7.704496914	6.638612267	5.555863657
BMS1P13	1.100642416	0	0
ENSG0000	6.603854498	0.829826533	4.444690926
ENSG0000	0	5.808785734	0
CYCSP43	0	0	1.111172731
LINC0089	3.301927249	19.08601027	2.222345463
LINC-PINT	135.3790172	97.0897044	16.66759097
ENSG0000	0	0.829826533	0
VN1R110P	0	0.829826533	0
TMSB15B	0	12.447398	1.111172731
ARHGEF9	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
TSPAN19	9.905781747	4.9789592	0
GAPDHP5	1.100642416	0	0
ENSG0000	2.201284833	0	0
LINC0127	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ABCA9-AS	4.402569665	0	0
NANOGP1	0	1.659653067	0
ENSG0000	0	216.5847252	0
ENSG0000	1.100642416	2.4894796	0
SLC66A2P	1.100642416	0	0
DLX6-AS1	14.30835141	33.19306133	3.333518194
RPS27AP5	3.301927249	0	2.222345463
LINC0135	2.201284833	0.829826533	0
ENSG0000	2.201284833	6.638612267	1.111172731
TMEM44-	7.704496914	12.447398	2.222345463
ENSG0000	0	0	2.222345463
DBIL5P	3.301927249	0	0
PIK3CD-A	0	4.149132667	0
DOC2GP	0	0	1.111172731
ENSG0000	0	1.659653067	0

ITCH-IT1	0	0.829826533	1.111172731
PA2G4P6	1.100642416	0	0
DNAJB6P3	0	2.4894796	1.111172731
RPL21P85	0	0	1.111172731
PCAT7	34.11991491	37.342194	30.00166375
NANOGP9	0	2.4894796	0
LINC0021(	1.100642416	0	0
LINC01198	2.201284833	0	0
SMC3P1	11.00642416	24.06496947	23.33462736
AKAIN1	1.100642416	1.659653067	0
LINC01819	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
MTHFD1P	3.301927249	0.829826533	5.555863657
TMEM139	4.402569665	15.76670413	1.111172731
FAM192B	9.905781747	2.4894796	1.111172731
HMGB3P1	0	1.659653067	0
MRPS9-AS	2.201284833	0	0
CYP21A2	1.100642416	0	0
ENSG0000	4.402569665	8.298265334	2.222345463
MORF4L1	1.100642416	0	0
STAT4-AS	0	0.829826533	2.222345463
OR5K2	5.503212081	0	6.667036389
ENSG0000	1.100642416	0	1.111172731
ENSG0000	4.402569665	2.4894796	0
ENSG0000	1.100642416	0.829826533	12.22290005
KRT17P3	0	0.829826533	0
IPO9-AS1	4.402569665	20.74566333	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
SNRPFP1	5.503212081	9.9579184	1.111172731
ENSG0000	1.100642416	2.4894796	0
MTND5P1	4.402569665	0.829826533	0
TRAF3IP2	5.503212081	35.68254093	1.111172731
DARS1-AS	2.201284833	7.4684388	2.222345463
ENSG0000	0	0.829826533	0
MYO3B-A	1.100642416	3.319306133	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
COX7BP6	2.201284833	0.829826533	0
IDH1-AS1	0	1.659653067	0
MAP1LC3	3.301927249	0	0
ENSG0000	3.301927249	0	2.222345463
ENSG0000	1.100642416	0	0

NEBL-AS1	2.201284833	1.659653067	0
PSG1	15.40899383	5.808785734	66.67036389
SEPHS1P7	0	0	2.222345463
HMGB3P3	1.100642416	0	0
MYO18B-A	2.201284833	0	1.111172731
ENSG0000	0	2.4894796	0
RPS7P3	5.503212081	0	0
HNRNPA1	1.100642416	0.829826533	3.333518194
PGM5P4-A	0	0	1.111172731
MTND2P2	0	0.829826533	0
HS1BP3-IT	1.100642416	0	0
ENSG0000	4.402569665	0.829826533	0
DPY19L1P	16.50963624	4.149132667	8.889381852
HNRNPA1	3.301927249	0	0
ENSG0000	2.201284833	5.808785734	0
ENSG0000	2.201284833	0	0
LINC02818	1.100642416	0	0
MMADHC	1.100642416	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
CT69	0	0.829826533	0
ENSG0000	0	0.829826533	0
MCF2L2P1	0	0	3.333518194
PPP1R2B	6.603854498	9.9579184	5.555863657
ANXA2P2	23.11349074	4.149132667	13.33407278
ENSG0000	0	2.4894796	0
LRRC8C-D	12.10706658	8.298265334	0
CAP1P2	6.603854498	3.319306133	11.11172731
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	1.100642416	0.829826533	0
DNMT3L-A	1.100642416	0	0
HSPE1P25	0	4.149132667	0
LEF1-AS1	3.301927249	0	10.00055458
FAAHP1	4.402569665	0	1.111172731
LINC0180	0	2.4894796	0
LSM12P1	82.54818122	154.3477352	80.00443666
MAGEB6B	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	4.149132667	0
ENSG0000	7.704496914	1.659653067	1.111172731
RPL21P29	1.100642416	0	0
SCAND3	58.33404806	53.10889814	36.66870014
PSMD10P3	1.100642416	0	3.333518194
ENSG0000	3.301927249	4.149132667	0
SILC1	5.503212081	6.638612267	1.111172731

LINC0179	8.80513933	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	3.333518194
SLC4A1AI	13.207709	1.659653067	7.77820912
ENSG0000	1.100642416	0	0
LINC0106	0	4.149132667	0
TMEM253	3.301927249	4.9789592	23.33462736
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
MRPL35P2	1.100642416	0	0
LINC0103	0	2.4894796	0
LARGE-IT	0	7.4684388	0
RPS6KA2-	3.301927249	6.638612267	0
POLR2DP	1.100642416	0	0
PNLIPP1	0	0	2.222345463
DCST1-AS	8.80513933	22.4053164	17.7787637
VPS51P2	4.402569665	0	0
ZNF584-D	13.207709	31.53340827	5.555863657
MTCO3P2	3.301927249	0	0
RFX3-DT	22.01284833	14.10705107	7.77820912
RPL32P28	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
TMA7	118.869381	142.7301637	35.55752741
TEX50	0	1.659653067	0
LINC0038	0	2.4894796	0
MCTS1	2.201284833	0.829826533	0
DYTN	8.80513933	8.298265334	48.89160018
RPS15AP1	2.201284833	1.659653067	0
LINC0086	0	7.4684388	0
ENSG0000	1.100642416	0	0
RPS25P9	1.100642416	0	0
FMO11P	0	0	1.111172731
FERP1	1.100642416	0	0
ST13P4	11.00642416	9.128091867	6.667036389
RAP2C-AS	5.503212081	23.23514293	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	5.503212081	19.9158368	7.77820912
MTATP6P	1.100642416	0	0
CNOT7P2	0	0	3.333518194
TERF1P7	1.100642416	0.829826533	0
FTH1P7	8.80513933	42.3211532	24.44580009

ENSG0000	1.100642416	0	0
RPL3P8	1.100642416	0	0
CHORDC1	0	7.4684388	0
SLC25A6P	0	0	2.222345463
ENSG0000	1.100642416	0	0
OR2L6P	4.402569665	4.149132667	14.44524551
RPL36AP1	1.100642416	0.829826533	1.111172731
LINC0086	5.503212081	3.319306133	1.111172731
TPM4P1	1.100642416	0	2.222345463
LINC0204	0	0.829826533	1.111172731
ENSG0000	1.100642416	2.4894796	0
ASCL5	0	3.319306133	21.1122819
DYNLT3P	1.100642416	0	0
ENSG0000	0	4.9789592	0
TMEM114	1.100642416	0.829826533	0
KRTAP25-	0	2.4894796	0
LINC0280	0	1.659653067	0
ACTR3P2	0	0.829826533	0
OR52I1	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
MTND1P3	9.905781747	17.4263572	0
HSD17B3-	1.100642416	2.4894796	0
GNG12-AS	4.402569665	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
FAM215B	0	0	1.111172731
LNCPRES	1.100642416	0	0
DFFBP1	2.201284833	5.808785734	2.222345463
DAOA-AS	0	1.659653067	0
LINC0300	0	0.829826533	0
LINC0251	0	0	1.111172731
MXRA7P1	27.51606041	8.298265334	17.7787637
ENSG0000	0	0	1.111172731
RPS27AP2	1.100642416	0	0
ENSG0000	0	1.659653067	17.7787637
ENSG0000	1.100642416	0.829826533	0
RPL4P2	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	1.659653067	0
SEMA3B-A	0	0.829826533	0
VIPR1-AS	3.301927249	1.659653067	0

ENSG0000	9.905781747	0.829826533	0
ENSG0000	1.100642416	0	0
ATP5MGP	1.100642416	0	2.222345463
ENSG0000	1.100642416	0	0
FTLP2	0	0.829826533	2.222345463
PPIAP35	0	0	4.444690926
BAG1P1	1.100642416	0	0
MTCYBP3	11.00642416	11.61757147	0
ENSG0000	1.100642416	0	0
ZDHHC20	1.100642416	0	1.111172731
OR5K1	5.503212081	4.149132667	0
RPS3AP25	2.201284833	0.829826533	0
ENSG0000	4.402569665	0.829826533	0
SMIM26	35.22055732	50.61941854	50.00277291
ENSG0000	139.7815869	32.3632348	13.33407278
GOT2P7	19.81156349	0	1.111172731
RPL5P6	1.100642416	0.829826533	0
CABP7-DT	0	2.4894796	0
TMPRSS11	0	0	1.111172731
RAD17P1	2.201284833	0.829826533	0
LINC0011	0	0.829826533	0
EPB41L1-A	0	0.829826533	0
PPIAP70	7.704496914	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	2.4894796	0
ENSG0000	0	0.829826533	0
ELN-AS1	31.91863007	0	13.33407278
IL9RP2	0	0	2.222345463
KNOP1P4	0	1.659653067	0
PRAMEF6	1.100642416	0	0
AJM1	60.5353329	24.06496947	124.4513459
RPS26P42	2.201284833	4.149132667	0
MHENCR	28.61670282	20.74566333	0
EMSLR	4.402569665	16.59653067	0
MTND5P3	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
LINC0277	0	1.659653067	0
ENSG0000	24.21413316	8.298265334	3.333518194
FAM131C	2.201284833	0.829826533	0
SLC16A6P	7.704496914	1.659653067	2.222345463
LINC0145	1.100642416	0	0
OR4F14P	1.100642416	0	4.444690926

BMPR1AP	0	0	1.111172731
H3P31	5.503212081	7.4684388	0
ENSG0000	0	0.829826533	0
EEF1B2P3	45.12633907	43.15097974	38.8910456
NCKAP5-I	2.201284833	0	0
TGFB2-AS	1.100642416	0	0
RPL37A-D	1.100642416	3.319306133	1.111172731
DEPDC1P2	3.301927249	4.149132667	1.111172731
OSBPL10-	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	170.5995745	208.2864599	52.22511838
ST3GAL5-	1.100642416	0.829826533	0
CSPG4BP	0	0	1.111172731
GCSIR	0	0	2.222345463
ENSG0000	4.402569665	0	0
VDAC1P1	0	4.149132667	0
KMT5AP2	4.402569665	0.829826533	10.00055458
FAM131B-	11.00642416	21.57548987	86.67147305
OR5H8	1.100642416	1.659653067	12.22290005
ENSG0000	3.301927249	14.10705107	3.333518194
ENSG0000	1.100642416	0	0
LINC0094	0	2.4894796	0
ENSG0000	4.402569665	11.61757147	0
ENSG0000	2.201284833	0.829826533	0
SRD5A1P1	8.80513933	9.9579184	1.111172731
CLK2P1	7.704496914	14.10705107	31.11283648
PRCPP1	0	0	1.111172731
KCND3-IT	1.100642416	0.829826533	0
TPMTP3	1.100642416	0	0
MRTFA-A	1.100642416	0.829826533	0
RPL23AP3	1.100642416	0	0
RPL3P4	86.95075089	48.95976547	61.11450023
ENSG0000	2.201284833	0	3.333518194
ENSG0000	1.100642416	2.4894796	3.333518194
KIAA1614	3.301927249	5.808785734	0
EEF1A1P3	7.704496914	1.659653067	0
ENSG0000	1.100642416	0	0
LINC0264	1.100642416	0	0
KANTR	55.03212081	126.1336331	18.88993643
CST2P1	1.100642416	0	0
TONSL-AS	4.402569665	0.829826533	2.222345463
ENSG0000	17.61027866	19.08601027	0
PPP4R2P5	2.201284833	0.829826533	2.222345463
MRAP-AS	6.603854498	10.78774493	10.00055458

LINC0151	2.201284833	0	3.333518194
ENSG0000	4.402569665	1.659653067	22.22345463
PRPS1P2	1.100642416	0	0
ENSG0000	0	2.4894796	0
LINC0143	3.301927249	1.659653067	0
ENSG0000	0	0	1.111172731
ING2-DT	3.301927249	6.638612267	0
LINC0178	0	1.659653067	0
GOLGA8N	1.100642416	0	0
FAM136BI	0	0.829826533	0
IDI2-AS1	3.301927249	4.149132667	0
SLC44A3P	1.100642416	0	0
PHB1P10	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ZNF687-A	0	7.4684388	1.111172731
ACTG1P21	0	0.829826533	4.444690926
LINC0066	56.13276323	48.95976547	10.00055458
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	1.659653067	1.111172731
LINC0162	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	2.222345463
BDH2P1	0	0	8.889381852
ENSG0000	1.100642416	0.829826533	0
NUTM2HI	1.100642416	0	8.889381852
AP1B1P2	0	0.829826533	0
RPS12P3	0	0.829826533	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	2.201284833	0	0
TRIM80P	1.100642416	0.829826533	0
YWHAEP1	25.31477557	57.2580308	37.77987287
GTF2I-AS1	13.207709	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ATP5MC1	0	0	1.111172731
ATG4AP1	0	0	2.222345463
ENSG0000	0	1.659653067	0
RHOQP2	40.7237694	28.21410213	17.7787637
ELF2P3	3.301927249	4.9789592	5.555863657
ENSG0000	4.402569665	1.659653067	11.11172731
ENSG0000	3.301927249	0	0
STEAP1B-	1.100642416	2.4894796	0
PPP1R26P	1.100642416	0.829826533	0
DEFB130D	0	0	4.444690926
LINC0303	0	0.829826533	0

ITGA6-AS	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
DNAJC19I	0	0	1.111172731
SCAND3P	5.503212081	0.829826533	0
ENSG0000	5.503212081	1.659653067	5.555863657
ENSG0000	15.40899383	1.659653067	1.111172731
LINC0171	0	0	1.111172731
COL4A2-A	1.100642416	0.829826533	8.889381852
PLPPR5-A	1.100642416	2.4894796	0
ENSG0000	7.704496914	9.128091867	17.7787637
GSTO3P	2.201284833	0.829826533	1.111172731
LMLN-AS	1.100642416	0	0
LINC0170	0	1.659653067	0
KAT7P1	1.100642416	0	0
SLC25A6P	0	0.829826533	0
LUZP4P1	1.100642416	0.829826533	0
ENSG0000	104.5610295	8.298265334	12.22290005
KATNBL1	0	1.659653067	1.111172731
RPL34P27	2.201284833	0	0
LYRM9	19.81156349	8.298265334	8.889381852
SMG7-AS1	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
SEC1P	1.100642416	3.319306133	0
CTAGE3P	6.603854498	2.4894796	2.222345463
ENSG0000	0	0.829826533	0
DPYD-AS1	0	2.4894796	0
PHKA1P1	74.84368431	53.10889814	30.00166375
RPLP0P5	0	0	3.333518194
ENSG0000	1.100642416	1.659653067	0
RPS11P5	49.52890873	47.3001124	43.33573653
ENSG0000	1.100642416	1.659653067	0
RGS5-AS1	0	0	1.111172731
IQCA1-AS	4.402569665	0	0
CYCSP10	0	0.829826533	0
LINC0116	0	7.4684388	0
ENSG0000	1.100642416	0	0
DLGAP4-A	3.301927249	0	0
HSD17B7I	0	0	3.333518194
PLCE1-AS	0	1.659653067	0
RNF14P1	1.100642416	4.149132667	6.667036389
MTND6P2	0	1.659653067	0
USP12PY	1.100642416	0	0
DDX3P1	0	0	4.444690926
LINC0034	53.9314784	61.40716347	3.333518194

ENSG0000	5.503212081	6.638612267	0
PANK1-AS	2.201284833	1.659653067	0
GGCTP2	1.100642416	0	0
RPL35AP2	1.100642416	0.829826533	0
LINC0254	0	0.829826533	0
ZNF519P1	1.100642416	0	0
IPO7P1	1.100642416	0.829826533	0
ENSG0000	64.93790256	79.6633472	41.11339106
HSPA8P18	6.603854498	0.829826533	3.333518194
SNHG15	7.704496914	10.78774493	2.222345463
ENSG0000	1.100642416	0	0
CYP1B1-A	59.43469048	8.298265334	8.889381852
MTCO1P5	0	0.829826533	0
LINC0032	5.503212081	0.829826533	0
ENSG0000	0	4.149132667	0
RPL7P14	2.201284833	1.659653067	1.111172731
ENSG0000	18.71092108	25.72462253	1.111172731
VPS13A-A	0	1.659653067	11.11172731
TBC1D26-	1.100642416	0	0
CICP26	0	0.829826533	0
ENSG0000	2.201284833	0	0
MIR3936H	38.52248457	14.9368776	18.88993643
LINC0172	40.7237694	14.10705107	0
NALCN-A	1.100642416	0.829826533	0
RPEP4	6.603854498	4.9789592	5.555863657
HDAC1P2	6.603854498	7.4684388	2.222345463
SNHG7	16.50963624	53.93872467	16.66759097
NPIPA9.1	62.73661773	44.8106328	17.7787637
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	5.808785734	0
PTPRN2-A	2.201284833	0	0
FAM204BI	11.00642416	8.298265334	6.667036389
PHGR1	1.100642416	0.829826533	0
RPL15P5	0	5.808785734	2.222345463
LINC0167	2.201284833	0	0
LINC0172	2.201284833	1.659653067	0
ERVH48-1	1.100642416	4.149132667	0
EEF1A1P1	1.100642416	0	0
ATP13A3-	2.201284833	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
TTLL7-IT1	7.704496914	24.06496947	1.111172731
SAR1AP4	1.100642416	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
PTCHD1-A	0	0.829826533	0

ZFY-AS1	1.100642416	0	0
RPS15AP6	0	2.4894796	0
GRM3-AS	3.301927249	0.829826533	3.333518194
LINC0127	2.201284833	0.829826533	0
LINC0139	2.201284833	0	0
ENSG0000	0	1.659653067	0
RAB6D	138.6809445	148.5389495	74.44857301
ENSG0000	1.100642416	0	0
LINC0089	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
CCDC144	13.207709	2.4894796	7.77820912
HOXB-AS	1.100642416	2.4894796	0
RPL12P3	0	0.829826533	0
GLCCI1-D	1.100642416	0	0
ENSG0000	0	0.829826533	0
SORBS2-A	1.100642416	0	0
RAB1C	3.301927249	0.829826533	1.111172731
FAM90A1	1.100642416	0	0
LINC0070	3.301927249	9.128091867	1.111172731
VN1R20P	1.100642416	0	0
CTAGE7P	2.201284833	0.829826533	7.77820912
LINC0179	1.100642416	0	0
ENSG0000	0	0	1.111172731
NPEPPSP2	1.100642416	0	0
USP17L11	2.201284833	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
DIRC3-AS	6.603854498	27.3842756	0
BPIFB5P	1.100642416	0.829826533	0
UBE2E2-D	3.301927249	0	0
LINC0176	1.100642416	4.149132667	0
HMGA1P8	4.402569665	4.9789592	1.111172731
ENSG0000	1.100642416	0.829826533	0
RPS24P6	1.100642416	0	0
RPL31P16	2.201284833	0	0
ENSG0000	11.00642416	11.61757147	28.89049102
FMNL1-AS	41.82441182	16.59653067	21.1122819
ENSG0000	4.402569665	4.9789592	0
ENSG0000	0	1.659653067	2.222345463
DPH5-DT	19.81156349	20.74566333	2.222345463
KLF4P1	0	0.829826533	0
RPS24P13	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
RNF224	6.603854498	0	8.889381852

MAPRE1P	0	0.829826533	0
WBP1P2	0	4.149132667	8.889381852
LINC0064	0	1.659653067	0
GRPEL2P1	1.100642416	0	0
KCNJ6-AS	0	0.829826533	0
LINC0168	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
MROH3P	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
PRDM10-I	0	2.4894796	0
ARHGEF4	1.100642416	0.829826533	1.111172731
ENSG0000	108.9635992	65.55629614	103.339064
SSBP3P1	16.50963624	22.4053164	6.667036389
CNOT7P1	4.402569665	34.02288787	12.22290005
ENSG0000	0	8.298265334	0
HNRNPA1	0	0	1.111172731
NPIPB7	8.80513933	3.319306133	8.889381852
ENSG0000	1.100642416	0	0
LINC0047	59.43469048	112.8564085	4.444690926
ENSG0000	5.503212081	2.4894796	0
VKORC1P	0	0.829826533	0
PHC2-AS1	0	2.4894796	0
UBE2E4P	12.10706658	63.06681654	50.00277291
ENSG0000	1.100642416	1.659653067	0
RPL21P13	0	3.319306133	0
SLC28A3-	2.201284833	0	0
ENSG0000	20.91220591	20.74566333	1.111172731
HMGB1P3	1.100642416	2.4894796	0
ENSG0000	0	0	1.111172731
SNRPEP4	1.100642416	3.319306133	0
ENSG0000	0	0	16.66759097
AMMECR	0	0	1.111172731
GPX1	163.99572	199.9881945	273.3484919
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	9.128091867	1.111172731
TMEM18-I	3.301927249	5.808785734	1.111172731
RASA4DP	1.100642416	0	0
XXYLT1-A	0	0.829826533	0
LINC0134	0	19.08601027	0
TRGV2	5.503212081	0	0
OSTN-AS1	1.100642416	0	50.00277291
RPS6P12	0	1.659653067	0
MTCO1P5	0	0.829826533	0
HMGA1P5	1.100642416	0	0

PPIAP32	0	0.829826533	0
LINC0266	0	2.4894796	3.333518194
MIPEPP3	2.201284833	0.829826533	0
PFN1P1	178.3040714	138.5810311	30.00166375
ENSG0000	0	0.829826533	0
TLR8-AS1	1.100642416	0	0
ENSG0000	0	0.829826533	0
ATP6V1G	1.100642416	0	0
ERP29P1	2.201284833	0.829826533	6.667036389
ENSG0000	6.603854498	3.319306133	0
LINC0002	0	1.659653067	0
CHRM3-A	2.201284833	0	0
ENSG0000	0	2.4894796	0
PDXP-DT	0	0.829826533	1.111172731
GTF2IP4	219.0278408	182.5618373	351.1305831
ACTR1AP	1.100642416	0.829826533	0
MTND4P2	0	0.829826533	0
RPS2P48	0	0.829826533	0
AK4P3	1.100642416	2.4894796	0
NKAPP1	3.301927249	14.10705107	1.111172731
CNIH3-AS	1.100642416	0	0
UICLM	3.301927249	18.25618373	0
LINC0171	1.100642416	8.298265334	0
LINC0164	1.100642416	0	0
PRKAR1A	6.603854498	11.61757147	2.222345463
TARDBPP	0	1.659653067	0
ENSG0000	0	1.659653067	0
LINC0122	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
OR5H15	1.100642416	0	4.444690926
ENSG0000	1.100642416	0	0
RPS25P3	1.100642416	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
EIF3FP3	84.74946605	55.59837774	82.22678213
PPIAP65	0	0	1.111172731
HOTAIRM	13.207709	4.9789592	0
MTIF2P1	1.100642416	0.829826533	2.222345463
AGGF1P2	0	1.659653067	0
BTBD18	2.201284833	2.4894796	14.44524551
PPP6R2P1	0	1.659653067	0
RPL17P11	2.201284833	0	0
ENSG0000	0	3.319306133	0
STXBP5-A	11.00642416	5.808785734	11.11172731

ENSG0000	1.100642416	0	0
ENSG0000	0	0	10.00055458
RPL35AP3	0	0	1.111172731
ENSG0000	5.503212081	14.10705107	2.222345463
HAX1P1	1.100642416	0	0
ST6GALN	1.100642416	0	0
EEF1A1P6	64.93790256	23.23514293	28.89049102
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
EFCAB15I	27.51606041	14.9368776	1.111172731
FHAD1-AS	9.905781747	3.319306133	1.111172731
CDHR17P	1.100642416	0	0
BETALIN(	0	0.829826533	0
TMEM238	26.41541799	19.9158368	100.0055458
SYNJ2-IT1	0	3.319306133	0
HNRNPA1	1.100642416	0	0
HNRNPLP	0	0	2.222345463
PTPRT-DT	3.301927249	1.659653067	0
ZNF197-A	0	0	1.111172731
ENSG0000	0	4.149132667	0
LINC01518	6.603854498	54.7685512	1.111172731
ENSG0000	7.704496914	0	4.444690926
RPL7P35	0	0.829826533	0
LINC01638	0	0	1.111172731
RANP8	0	0.829826533	5.555863657
ZNF529-A	20.91220591	40.66150013	5.555863657
LINC0046(	2.201284833	0	0
MKNK2P1	0	0.829826533	0
ENSG0000	0	0	1.111172731
DNM3-IT1	0	1.659653067	0
ENSG0000	0	0.829826533	0
CHTF8P1	0	0	4.444690926
EIF3KP2	0	0	1.111172731
CYCSP33	0	0.829826533	0
ENSG0000	34.11991491	11.61757147	11.11172731
LSM1P1	2.201284833	0	0
B4GALT1-	3.301927249	0.829826533	0
ENSG0000	1.100642416	4.149132667	1.111172731
KRT8P39	4.402569665	0.829826533	0
RPS3AP8	0	0.829826533	0
OR52E7P	1.100642416	0	0
ENSG0000	0	4.9789592	0
LINC0069(	3.301927249	0.829826533	0
EIF4EP1	0	0.829826533	0

KRT8P15	3.301927249	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
ACAA2P1	4.402569665	42.3211532	11.11172731
LINC0188	0	1.659653067	0
CYP51A1I	6.603854498	5.808785734	12.22290005
ENSG0000	1.100642416	1.659653067	7.77820912
LINC0260	1.100642416	5.808785734	1.111172731
BTF3P5	3.301927249	0.829826533	0
MTND2P2	1.100642416	0	0
RPL19P6	2.201284833	0	0
ERI3-IT1	4.402569665	4.9789592	1.111172731
RPL10P19	1.100642416	0	0
GBX2-AS1	2.201284833	16.59653067	3.333518194
HNRNPA1	0	0.829826533	0
USH2A-AS	1.100642416	0	6.667036389
ZC3H12A-	7.704496914	8.298265334	2.222345463
CYP2T1P	3.301927249	0	2.222345463
PGAM1P1	0	6.638612267	0
ENSG0000	0	0.829826533	0
PANTR1	1.100642416	0	0
GPR158-A	0	0.829826533	0
ARHGEF7	0	0.829826533	0
OR52T1P	2.201284833	3.319306133	0
NENFP1	2.201284833	0	1.111172731
NEMP2-D	4.402569665	17.4263572	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
PIRT	6.603854498	0	2.222345463
CENPNP1	0	0.829826533	0
RNASEH2	5.503212081	2.4894796	0
ANAPC1P	2.201284833	1.659653067	0
ENSG0000	4.402569665	2.4894796	0
HNRNPA1	1.100642416	0.829826533	4.444690926
CEACAMI	0	0	1.111172731
EBAG9P1	2.201284833	0	0
GAS6-AS1	48.42826632	20.74566333	30.00166375
PRR23C	2.201284833	4.149132667	0
SLC26A4-	8.80513933	0	0
ENSG0000	0	0.829826533	0
MTFR2P1	3.301927249	1.659653067	0
MYCNOS	3.301927249	5.808785734	1.111172731
GOT2P3	0	1.659653067	0
ENSG0000	0	0	2.222345463
LINC0112	2.201284833	4.149132667	2.222345463

ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	2.4894796	16.66759097
LINC0176	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ZNF892	82.54818122	207.4566333	21.1122819
RPS15P4	71.54175706	57.2580308	117.7843095
CAVIN2-A	3.301927249	4.9789592	0
ENSG0000	0	0	1.111172731
HNRNPA1	1.100642416	2.4894796	3.333518194
ENSG0000	0	0.829826533	0
CDC27P1	1.100642416	0	0
BTG2-DT	0	9.128091867	0
UFL1-AS1	8.80513933	5.808785734	0
ENSG0000	13.207709	13.27722453	32.22400921
TRIM49D2	2.201284833	0.829826533	0
LINC0123	1.100642416	1.659653067	0
AMZ2P3	0	3.319306133	1.111172731
IFNA13	4.402569665	2.4894796	0
CLDN14-A	0	0.829826533	0
ENSG0000	8.80513933	110.3669289	7.77820912
H2BC15	123.2719506	1408.215627	103.339064
EPC1-AS2	2.201284833	3.319306133	20.00110917
MIR4280H	1.100642416	0	0
EIF4HP1	12.10706658	9.128091867	8.889381852
GIRGL	0	0.829826533	0
ENSG0000	6.603854498	4.149132667	10.00055458
EIF3LP2	20.91220591	10.78774493	22.22345463
DPH3P1	0	0	2.222345463
ENSG0000	0	0	1.111172731
SELENOT	3.301927249	9.128091867	45.55808199
ERCC8-AS	0	0.829826533	0
ENSG0000	0	0	8.889381852
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
POU6F2-A	1.100642416	0	0
SHROOM3	6.603854498	2.4894796	0
ENSG0000	1.100642416	1.659653067	1.111172731
LLPHP3	16.50963624	9.9579184	1.111172731
ENSG0000	0	2.4894796	0
TOR1BP1	1.100642416	0	0
RPL7P44	1.100642416	0	0
MFN1P1	0	0.829826533	4.444690926
ENSG0000	0	2.4894796	0

LINC0168(	0	4.9789592	0
ENSG0000	0	0.829826533	0
YEATS2-A	16.50963624	9.128091867	4.444690926
MTCO2P1	1.100642416	1.659653067	0
EZR-AS1	1.100642416	0	5.555863657
ENSG0000	0	2.4894796	0
LINC0150	4.402569665	3.319306133	0
LONRF2P2	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
RPL10P9	897.0235693	487.1081751	514.4729747
LINC0169	0	4.149132667	0
RPSAP13	2.201284833	1.659653067	0
TLE1-DT	2.201284833	1.659653067	0
RPS28	451.2633907	311.18495	212.2339917
CTXN2	3.301927249	3.319306133	7.77820912
CTC-338M	85.85010847	127.7932861	80.00443666
ENSG0000	0	0.829826533	0
LINC0265(	0	0.829826533	0
RCC2P3	0	0.829826533	0
FTLP15	1.100642416	0	0
UQCRHL	46.22698148	60.57733694	51.11394565
AHCYP3	1.100642416	0	0
BTF3P6	1.100642416	0.829826533	0
UBE2SP1	4.402569665	29.8737552	0
ENSG0000	12.10706658	9.128091867	1.111172731
ENSG0000	0	0.829826533	0
RPS20P10	0	0.829826533	0
LINC0136(	0	0.829826533	0
LINC0257	1.100642416	3.319306133	0
ENSG0000	0	0	2.222345463
RPL22P21	1.100642416	0.829826533	0
LINC0168	0	0	1.111172731
ENSG0000	1.100642416	0	0
GDI2P2	4.402569665	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
IGKV3OR2	2.201284833	0	0
RPL5P34	25.31477557	24.06496947	10.00055458
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
EIF2AK3-I	14.30835141	7.4684388	0
RPS3AP44	1.100642416	1.659653067	1.111172731
TXNP6	5.503212081	24.06496947	3.333518194
ENSG0000	0	0.829826533	0
NUDT9P1	0	1.659653067	0

ENSG0000	2.201284833	0	0
LINC0046	1.100642416	0	0
TM9SF5P	7.704496914	18.25618373	0
PAGE2	1.100642416	3.319306133	0
SPATA17-	0	0.829826533	0
GTF3C2-A	19.81156349	32.3632348	4.444690926
CBX3P10	2.201284833	0.829826533	0
ENSG0000	0	0	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
FRMD4A-	0	0.829826533	0
KRT19P4	0	1.659653067	0
SRP14P2	0	0.829826533	1.111172731
RPL7P36	1.100642416	0	0
LEFTY3P	2.201284833	1.659653067	7.77820912
ENSG0000	1.100642416	0.829826533	0
RPL13AP6	0	0.829826533	0
RHBDF1P	0	0.829826533	0
TRIM26	1.100642416	0	0
HCCS-DT	4.402569665	40.66150013	0
AP2B1P1	7.704496914	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
LINC0167	1.100642416	0.829826533	0
UGT1A13I	1.100642416	0.829826533	0
NAP1L4P3	2.201284833	0.829826533	1.111172731
ENSG0000	0	80.49317374	0
ELOBP1	0	1.659653067	0
LINC0253	0	0	1.111172731
ENSG0000	0	4.9789592	0
RBPMSLP	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
PABPC5-A	0	5.808785734	0
ENSG0000	0	0.829826533	0
ELOBP4	1.100642416	1.659653067	0
RNASEH1	9.905781747	27.3842756	3.333518194
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
HSPA8P1	2.201284833	0	3.333518194
PIGO-AS1	0	0.829826533	0
H2AZ2-DT	0	0.829826533	0
LINC0178	0	0.829826533	0
C16orf82	3.301927249	2.4894796	0

AIMP1P1	2.201284833	1.659653067	0
LINC0119	3.301927249	0	0
ENSG0000	0	0	5.555863657
H3P3	0	1.659653067	0
ENSG0000	2.201284833	6.638612267	21.1122819
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
CT66	0	0.829826533	1.111172731
RBPJP7	0	0.829826533	0
CDCA4P4	6.603854498	1.659653067	0
LIX1L-AS	0	2.4894796	12.22290005
TMEM229	6.603854498	2.4894796	11.11172731
ENSG0000	0	0.829826533	0
RPL7L1P1	0	0.829826533	0
ZFX-AS1	1.100642416	0	0
KCNH1-IT	0	2.4894796	0
ENSG0000	3.301927249	63.89664307	37.77987287
DNAJB6P	1.100642416	0	0
RPL7P13	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
MAP3K5-A	1.100642416	0	0
LINC0172	1.100642416	0	2.222345463
TULP3P1	2.201284833	0	0
RPS27P19	2.201284833	2.4894796	0
RPL36P20	0	0	1.111172731
ENSG0000	0	3.319306133	0
LINC0164	0	0	1.111172731
LINC0193	0	0.829826533	0
LINC0173	1.100642416	0	0
ZNF879	132.07709	401.6360421	127.7848641
ENSG0000	3.301927249	4.149132667	0
RPS27P4	4.402569665	10.78774493	0
H2BC12L	3.301927249	12.447398	3.333518194
BACH1-IT	3.301927249	6.638612267	0
PSIP1P1	3.301927249	5.808785734	1.111172731
LINC0022	0	0.829826533	0
LINC0187	0	1.659653067	0
LINC0306	0	3.319306133	0
SAPCD2P4	3.301927249	0	0
OSTCP5	0	0	1.111172731
ENSG0000	0	0.829826533	0
ST13P18	2.201284833	0.829826533	0
LINC0150	0	3.319306133	0
RPL9P2	1.100642416	0	0

MRPS10P2	2.201284833	0.829826533	0
ZNF232-A1	3.301927249	13.27722453	4.444690926
RPL7AP16	4.402569665	2.4894796	0
BCAS2P2	2.201284833	3.319306133	2.222345463
RPS4XP11	4.402569665	9.9579184	2.222345463
JAZF1-AS	2.201284833	0	0
ENSG0000	2.201284833	0	4.444690926
ERICH2-D	11.00642416	13.27722453	1.111172731
RPS26P47	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
RPL7AP42	0	0	1.111172731
TATDN1P	1.100642416	2.4894796	0
RPSAP31	0	0.829826533	5.555863657
SNX18P7	0	5.808785734	0
OBI1-AS1	4.402569665	2.4894796	6.667036389
ENSG0000	0	1.659653067	0
LINC0142	1.100642416	2.4894796	0
ENSG0000	0	1.659653067	0
CTBP2P8	20.91220591	15.76670413	25.55697282
ENSG0000	0	4.149132667	0
USP27X-D	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0
LINC0302	0	0.829826533	0
PPIAP34	0	0	3.333518194
ELK2BP	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	21.1122819
CCDC188	0	14.10705107	1.111172731
ENSG0000	1.100642416	0.829826533	3.333518194
CICP13	1.100642416	0	0
ZNF37BP	135.3790172	141.9003372	30.00166375
SLC25A5P	0	9.9579184	0
LINC0125	2.201284833	1.659653067	2.222345463
ENSG0000	9.905781747	9.9579184	3.333518194
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	0	1.111172731
ANKRD11	2.201284833	0.829826533	12.22290005
LINC0298	7.704496914	8.298265334	0
KBTBD13	6.603854498	1.659653067	0
ENSG0000	2.201284833	0	0
ZNF736	361.0107125	208.2864599	106.6725822
ENSG0000	0	0	1.111172731
SLC16A12	2.201284833	0	3.333518194
MAGI2-AS	81.44753881	88.79143907	10.00055458
ENSG0000	1.100642416	0.829826533	0

PINLYP	15.40899383	24.06496947	43.33573653
CLDN34	30.81798766	6.638612267	24.44580009
ZNF101P2	7.704496914	3.319306133	1.111172731
LINC0276	0	0.829826533	0
ACBD3-A	2.201284833	2.4894796	1.111172731
ENSG0000	1.100642416	0	0
OR7E46P	0	0	2.222345463
RPL34-DT	4.402569665	0.829826533	0
SP2-AS1	4.402569665	5.808785734	0
ERICH3-A	4.402569665	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0150	0	0.829826533	0
SOD1-DT	1.100642416	4.149132667	0
C5orf58	7.704496914	27.3842756	8.889381852
TLR12P	0	0	1.111172731
ENSG0000	0	0.829826533	0
PTGES3P1	33.01927249	40.66150013	7.77820912
NDUFB1P	0	0.829826533	0
CSNK1G2	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
FAM133B	123.2719506	66.38612267	6.667036389
LNCTAM3	8.80513933	2.4894796	1.111172731
LINC0202	0	1.659653067	1.111172731
LINC0130	1.100642416	0	0
API5P1	3.301927249	5.808785734	0
OR10G8	1.100642416	0	24.44580009
BIN2P1	1.100642416	0	0
RAD1P1	1.100642416	0	1.111172731
ZFRP1	1.100642416	0.829826533	0
CTSLP8	1.100642416	0	1.111172731
MTND1P2	0	0.829826533	0
SYNE1-AS	1.100642416	0.829826533	7.77820912
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
CCT6P3	3.301927249	0	0
TJAP1P1	0	2.4894796	0
KAZN-AS	2.201284833	0	0
ENSG0000	1.100642416	0	0
MCIDAS	3.301927249	7.4684388	10.00055458
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	1.111172731

MAPKAPK	14.30835141	26.55444907	0
C2CD4D-A	1.100642416	4.149132667	0
JRK	181.6059987	424.0413586	631.1461115
SNRK-AS1	94.6552478	17.4263572	42.22456379
RPSAP9	2.201284833	9.128091867	2.222345463
ENSG0000	6.603854498	2.4894796	6.667036389
ENSG0000	0	0.829826533	1.111172731
NUS1P3	3.301927249	0	0
MED14OS	5.503212081	6.638612267	0
ENSG0000	0	0.829826533	0
OTX2P1	0	0.829826533	0
YWHAEP5	4.402569665	3.319306133	2.222345463
ENSG0000	4.402569665	4.149132667	14.44524551
PCCA-AS1	1.100642416	0	0
AGPAT5P	2.201284833	0	0
LRRTM4-A	1.100642416	0	0
OR7E155P	0	0	2.222345463
CHL1-AS1	2.201284833	0.829826533	8.889381852
LINC0193	7.704496914	5.808785734	1.111172731
HMGN2P5	0	0.829826533	0
LERFS	8.80513933	10.78774493	24.44580009
ACTL11P	0	1.659653067	0
MTCYBP5	1.100642416	0	0
ENSG0000	1.100642416	0	0
ELF3-AS1	56.13276323	58.08785734	11.11172731
SDCBP2-A	29.71734524	23.23514293	16.66759097
NUS1P2	1.100642416	0	0
EPCAM-D	0	20.74566333	1.111172731
ENSG0000	4.402569665	0.829826533	0
RIPOR3-A	0	0.829826533	0
CDC20-DT	0	1.659653067	0
GPR50-AS	0	0.829826533	3.333518194
HMGA1P4	0	1.659653067	0
PRUNEP1	0	0.829826533	1.111172731
SEC61G-D	1.100642416	0	0
UPF3AP3	5.503212081	1.659653067	2.222345463
TUBB8P11	0	0.829826533	5.555863657
SLC26A5-A	9.905781747	3.319306133	0
ENSG0000	0	3.319306133	0
NPIPB2	61.63597531	39.8316736	65.55919115
LINC0128	14.30835141	0.829826533	0
HDAC1P1	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0

KRT18P15	3.301927249	5.808785734	5.555863657
ENSG0000	3.301927249	4.9789592	0
GAS5	77.04496914	94.6002248	10.00055458
RPL17P18	25.31477557	24.06496947	20.00110917
EIF5AP4	12.10706658	13.27722453	25.55697282
HLA-B	2180.372627	512.0029711	1017.834222
ENSG0000	0	0	4.444690926
FOXP4-AS	1.100642416	8.298265334	2.222345463
LINC0281	0	0.829826533	0
LINC0105	1.100642416	0	0
ENSG0000	0	4.149132667	0
WASH4P	49.52890873	4.149132667	22.22345463
GULOP	1.100642416	1.659653067	0
SLC25A25	19.81156349	44.8106328	2.222345463
LINC0041	2.201284833	8.298265334	0
ENSG0000	0	2.4894796	0
FREY1	6.603854498	11.61757147	36.66870014
TPT1P9	1.100642416	3.319306133	0
EEF1GP5	1.100642416	2.4894796	2.222345463
LINC0045	0	2.4894796	0
HSPA8P3	2.201284833	5.808785734	0
ENSG0000	0	0	6.667036389
ENSG0000	6.603854498	2.4894796	10.00055458
RPS3AP6	37.42184215	40.66150013	20.00110917
PCMTD1P	8.80513933	9.128091867	4.444690926
MORF4	3.301927249	0.829826533	6.667036389
FAM151A	0	1.659653067	0
RPL26P29	0	0.829826533	0
LINC0113	6.603854498	4.9789592	2.222345463
ENSG0000	4.402569665	3.319306133	1.111172731
ENSG0000	0	0.829826533	1.111172731
SVIL2P	36.32119974	39.8316736	34.44635467
H2AC5P	0	1.659653067	0
ECI2-DT	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	14.44524551
XRCC6P2	0	1.659653067	6.667036389
ENSG0000	1.100642416	0.829826533	0
IQCM	0	1.659653067	0
IFNA17	4.402569665	0.829826533	0
NXT1-AS1	1.100642416	0	0
RPS26P30	1.100642416	0	0
LINC0123	11.00642416	0	0
ENSG0000	2.201284833	0	5.555863657
ENSG0000	1.100642416	0	0

RPL23AP4	110.0642416	47.3001124	48.89160018
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0263	0	0.829826533	0
LINC0292	2.201284833	4.149132667	0
MIR155HC	2.201284833	1.659653067	0
GRK3-AS1	0	0.829826533	0
MTND5P2	9.905781747	15.76670413	0
SOX9-AS1	1.100642416	3.319306133	3.333518194
ENSG0000	0	0.829826533	0
APOC2	0	0.829826533	0
ENSG0000	0	0.829826533	0
TEX21P	1.100642416	13.27722453	2.222345463
SNHG20	7.704496914	21.57548987	8.889381852
ENSG0000	5.503212081	3.319306133	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
ATP5PDP4	2.201284833	0	0
ENSG0000	1.100642416	2.4894796	0
MARK2P1	0	0	11.11172731
ENSG0000	2.201284833	2.4894796	0
MTND2P1	1.100642416	0	0
ENSG0000	0	0	2.222345463
GRID1-AS	0	0.829826533	0
GTF3C2-A	0	1.659653067	8.889381852
SDHCP3	2.201284833	7.4684388	4.444690926
LINC0152	3.301927249	1.659653067	1.111172731
RAB17-DT	0	1.659653067	0
LINC0267	0	0	1.111172731
ENSG0000	2.201284833	0	3.333518194
LINC0070	0	0	1.111172731
FABP5P7	5.503212081	43.15097974	18.88993643
SHISA8	1.100642416	31.53340827	0
AARSD1P	1.100642416	0	0
FTH1P2	0	0.829826533	0
RPL7AP20	1.100642416	0	0
FMO10P	1.100642416	0	0
ACTG1P25	1.100642416	8.298265334	2.222345463
LINC0296	0	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
SNRPCP19	1.100642416	0	0
EIF4A1P2	1.100642416	0	6.667036389
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	3.319306133	10.00055458

JAKMIP3-	0	1.659653067	0
SEMA3F-A	1.100642416	0	0
RPL17P48	2.201284833	3.319306133	0
ENSG0000	1.100642416	1.659653067	4.444690926
ENSG0000	2.201284833	1.659653067	0
CDK5R2-A	0	3.319306133	0
DPP10-AS	2.201284833	0	0
PRADX	0	0.829826533	0
HMGN1P3	2.201284833	0	0
MNX1-AS	3.301927249	0	0
DAAM2-A	5.503212081	51.44924507	22.22345463
C19orf81	4.402569665	21.57548987	13.33407278
ENSG0000	0	35.68254093	12.22290005
ENSG0000	1.100642416	0	0
TECRP1	1.100642416	3.319306133	5.555863657
PPIAP3	3.301927249	4.149132667	8.889381852
RPL7P8	0	1.659653067	0
MLIP-AS1	1.100642416	0	0
LINC0177	0	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	0
VDAC1P4	0	0.829826533	0
SLC25A5P	1.100642416	2.4894796	0
RPL24P2	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	6.667036389
ARNILA	5.503212081	10.78774493	0
GAPDHP5	1.100642416	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	0	3.333518194
ZRANB2-A	0	0	2.222345463
SUMO1P3	0	0	1.111172731
CHCHD2P	4.402569665	3.319306133	7.77820912
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	5.503212081	8.298265334	1.111172731
ENSG0000	2.201284833	0.829826533	0
RPL7L1P3	0	5.808785734	0
ENSG0000	23.11349074	0.829826533	0
ID2-AS1	1.100642416	26.55444907	1.111172731
ENSG0000	4.402569665	4.9789592	6.667036389
ANKRD65	9.905781747	27.3842756	4.444690926
ENSG0000	5.503212081	1.659653067	0
SETP9	1.100642416	0	0
ENSG0000	1.100642416	10.78774493	6.667036389
BRD3OS	19.81156349	48.12993894	4.444690926

ZSCAN31	145.284799	262.2251845	218.9010281
ENSG0000	5.503212081	7.4684388	0
CHCHD2P	0	0	6.667036389
FAM237A	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	2.201284833	0	0
TP73-AS2	0	0.829826533	0
HSP90AB(	0	0.829826533	0
COX6CP1'	0	0.829826533	0
LINC0253:	1.100642416	1.659653067	0
HMGB3P2	2.201284833	0	0
ENSG0000	1.100642416	0	0
TMEM30C	2.201284833	2.4894796	0
LINC0293'	3.301927249	2.4894796	0
C12orf75	141.9828717	478.8099098	112.2284459
CDK5P1	0	0	2.222345463
LINC0144(	1.100642416	0	0
SMIM1	6.603854498	25.72462253	62.22567296
LINC0136(	0	0.829826533	0
HGH1	80.34689639	132.7722453	85.56030032
RPL39P3	41.82441182	89.6212656	54.44746384
RPL26P37	0	0	1.111172731
ENSG0000	0	0	1.111172731
SRP14P3	1.100642416	4.9789592	0
MICOS10-	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
NUCB1-AS	0	0.829826533	6.667036389
ENSG0000	2.201284833	0.829826533	0
PPP1R3E	55.03212081	83.81247987	37.77987287
ENSG0000	0	0.829826533	0
TBC1D3P3	1.100642416	0	0
TATDN2P	2.201284833	0.829826533	0
TUBBP6	0	0	2.222345463
FAM83C-A	0	0	1.111172731
TSPY26P	9.905781747	7.4684388	2.222345463
DNAJC17I	5.503212081	2.4894796	3.333518194
LINC0038:	0	0.829826533	0
ENSG0000	0	1.659653067	0
SUMO2P1	0	0.829826533	0
ACTRT1P1	1.100642416	0	0
DANT2	33.01927249	100.4090105	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0

TMEM185	5.503212081	0	1.111172731
FKBP4P7	1.100642416	0	0
ITGA9-AS	0	1.659653067	0
KDM5C-IT	1.100642416	4.9789592	0
ENSG0000	0	0.829826533	0
KDM4E	1.100642416	4.149132667	10.00055458
ENSG0000	1.100642416	0	0
RAMACL	31.91863007	29.04392867	13.33407278
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	0	0
MCF2L-AS	3.301927249	4.9789592	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
FAUP1	6.603854498	38.17202053	31.11283648
HNRNPK-	0	0	11.11172731
SKAP1-AS	0	1.659653067	0
ENSG0000	0	0.829826533	0
HM13-IT1	2.201284833	0	1.111172731
LINC0095	3.301927249	0	6.667036389
DUSP8P5	22.01284833	13.27722453	22.22345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
SRSF3P5	0	0	1.111172731
RPL12P25	0	0.829826533	0
RPSAP76	0	2.4894796	0
B3GALT1-	1.100642416	0	11.11172731
ENSG0000	1.100642416	0	2.222345463
ENSG0000	0	0	3.333518194
ENSG0000	0	0.829826533	0
SNRPGP1(	1.100642416	10.78774493	0
SAPCD2P2	0	1.659653067	0
RPL36AP1	1.100642416	0.829826533	4.444690926
ENSG0000	0	0.829826533	2.222345463
SSR4P1	1.100642416	6.638612267	0
RPEL1	6.603854498	24.06496947	17.7787637
ENSG0000	16.50963624	33.19306133	16.66759097
MTND4P3	0	0.829826533	0
ENSG0000	1.100642416	0	0
SPAAR	2.201284833	6.638612267	0
ENSG0000	2.201284833	2.4894796	1.111172731
CYMP-AS	0	0.829826533	0
SNORA71	2.201284833	7.4684388	3.333518194
DRG1P1	0	0.829826533	5.555863657

ENSG0000	1.100642416	0	0
RPL29P30	1.100642416	0	0
KATNBL1	0	0.829826533	0
ZSWIM5P	1.100642416	0	1.111172731
MTATP6P	0	0.829826533	0
RNF186-A	1.100642416	0	1.111172731
LINC0127	239.9400468	238.9900416	15.55641824
ESRRAP2	1.100642416	0.829826533	2.222345463
PSMB3P2	0	0	3.333518194
ENSG0000	1.100642416	4.149132667	0
TRAPPC1	0	0.829826533	0
LURAP1L-	0	4.9789592	0
COX7CP2	2.201284833	1.659653067	10.00055458
SMIM27	12.10706658	19.08601027	12.22290005
HAUS6P3	1.100642416	0.829826533	7.77820912
RPS26P31	1.100642416	0	0
EIF4A1P7	0	2.4894796	0
LINC0166	0	0.829826533	0
UBE2R2-A	3.301927249	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
ANAPC1P	2.201284833	0.829826533	1.111172731
DBF4P1	8.80513933	5.808785734	0
LINC0196	0	35.68254093	0
ENSG0000	1.100642416	0	0
SNX19P2	3.301927249	0	2.222345463
CNN3-DT	13.207709	30.70358173	0
RPS2P7	3.301927249	1.659653067	3.333518194
TAB3-AS2	0	2.4894796	10.00055458
L3MBTL2-	23.11349074	3.319306133	0
ENSG0000	0	0.829826533	0
HIPK1-AS	3.301927249	5.808785734	0
AGAP1-IT	5.503212081	32.3632348	0
TMEM11-I	19.81156349	21.57548987	1.111172731
MSC-AS1	22.01284833	5.808785734	11.11172731
LINC0040	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
MTND1P3	0	10.78774493	0
DOCK7-D	1.100642416	0	0
ENSG0000	2.201284833	0	2.222345463
HEBP2P1	0	0.829826533	1.111172731
EIF1P2	0	2.4894796	0
RPL6P27	321.3875856	222.3935109	167.7870824

SRSF6P2	1.100642416	2.4894796	2.222345463
GUSBP17	1.100642416	0.829826533	0
ZNF747-D	4.402569665	19.08601027	4.444690926
NFAM1	46.22698148	31.53340827	31.11283648
SNX18P14	1.100642416	0.829826533	0
LINC0187	1.100642416	0	0
ENSG0000	0	0	1.111172731
GNAS-AS	2.201284833	2.4894796	47.78042745
LINC0110	2.201284833	0	0
BARX1-D	0	11.61757147	0
POU5F1P3	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	1.111172731
AK4P6	0	2.4894796	8.889381852
NKX1-1	3.301927249	4.149132667	1.111172731
ENSG0000	0	0.829826533	3.333518194
NSRP1P1	16.50963624	3.319306133	2.222345463
ST13P2	0	0.829826533	1.111172731
FAM21EP	1.100642416	0	0
RPL36AP3	1.100642416	4.9789592	0
LINC0049	2.201284833	1.659653067	1.111172731
OR7E110P	0	0.829826533	0
KRT18P66	1.100642416	0	0
LINC0292	0	2.4894796	0
RNF148	91.35332055	23.23514293	7.77820912
ENSG0000	1.100642416	0	0
NUS1P1	15.40899383	12.447398	33.33518194
ENSG0000	0	0.829826533	0
LINC0048	0	0.829826533	1.111172731
MXRA5Y	1.100642416	0	0
G3BP1P1	5.503212081	7.4684388	0
EPM2A-D	16.50963624	9.9579184	1.111172731
H3P6	210.2227015	541.8767263	88.89381852
LINC0034	0	1.659653067	0
MIR670HC	0	0.829826533	0
LINC0029	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
LDHAP2	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	1.111172731
LINC0099	0	0.829826533	0
SNTG2-AS	4.402569665	14.10705107	0
CUBNP3	1.100642416	0	0
HIGD2AP2	0	4.9789592	2.222345463
PA2G4P2	6.603854498	11.61757147	1.111172731

CYCSP52	0	0	1.111172731
PCBP2P1	5.503212081	3.319306133	1.111172731
EOLA2-DT	52.83083598	88.79143907	8.889381852
DICER1-A	9.905781747	10.78774493	2.222345463
TRIM67-A	2.201284833	1.659653067	13.33407278
ANKRD34	1.100642416	1.659653067	10.00055458
KRT18P46	0	0.829826533	0
MFRP	2.201284833	0	4.444690926
GABPAP	23.11349074	44.8106328	82.22678213
ENSG0000	16.50963624	0	5.555863657
PSMD14-D	1.100642416	0	1.111172731
LINC0305(	0	0.829826533	0
ENSG0000	2.201284833	0	0
LINC0225(	1.100642416	0	0
ENSG0000	0	1.659653067	0
LINC0278-	1.100642416	0	0
SEPTIN14	1.100642416	0.829826533	0
ENSG0000	4.402569665	4.9789592	13.33407278
KIAA0040	216.826556	913.6390132	151.1194915
ARHGAP4	1.100642416	0	0
MSH2-OT1	1.100642416	4.149132667	0
SNRPGP5	0	1.659653067	0
BRD7P5	0	1.659653067	0
LINC0060'	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
RPL7AP70	7.704496914	9.128091867	2.222345463
DPYD-AS2	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ZNRF3-IT1	5.503212081	4.9789592	0
PEF1-AS1	4.402569665	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
MYL6P2	0	0.829826533	0
ENSG0000	1.100642416	0	0
ADAM21P	6.603854498	14.9368776	25.55697282
ENSG0000	0	0.829826533	0
PRELID1P	0	0.829826533	0
OLMALIN	23.11349074	22.4053164	1.111172731
TBCAP2	0	0	1.111172731
SRGAP3-A	0	0.829826533	0
BHLHE40-	3.301927249	4.149132667	27.77931829

CNN2P3	1.100642416	0	0
ENSG0000	4.402569665	18.25618373	0
KIF3AP1	1.100642416	0	0
ENSG0000	0	0	1.111172731
HSP90AB7	0	0.829826533	0
ENSG0000	1.100642416	0	0
LDHAP7	0	0.829826533	0
RMDN2-A	5.503212081	4.9789592	1.111172731
ENSG0000	1.100642416	1.659653067	0
OR7E145P	0	0.829826533	0
CTBP2P1	1.100642416	0	0
ENSG0000	39.62312699	19.08601027	7.77820912
ENSG0000	0	1.659653067	0
GSN-AS1	0	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	0
ARHGEF7	1.100642416	1.659653067	0
FEM1AP4	3.301927249	0.829826533	0
FAR1P1	0	0	1.111172731
LINC0294(	1.100642416	5.808785734	2.222345463
PKMP2	0	1.659653067	0
TM4SF19-	8.80513933	15.76670413	14.44524551
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
CPB2-AS1	9.905781747	24.06496947	3.333518194
RBMS3-AS	2.201284833	0	0
RHOA-IT1	0	0.829826533	0
APOA1-AS	1.100642416	2.4894796	0
ENSG0000	3.301927249	1.659653067	3.333518194
MRPS18C1	0	0.829826533	0
MTCO2P1	3.301927249	3.319306133	0
ASH1L-AS	8.80513933	9.128091867	3.333518194
THRAP3P2	6.603854498	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
RPS29P15	0	0	1.111172731
NEXN-AS	0	0.829826533	1.111172731
TPT1P14	0	0.829826533	0
HSPE1P12	0	0.829826533	0
LINC0155	3.301927249	0.829826533	0
LINC0177	0	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	5.503212081	0	0
H2BW3P	1.100642416	0.829826533	0
EGOT	0	0	2.222345463
TTC28-AS	62.73661773	68.87560227	16.66759097

COX7CP1	0	0	1.111172731
PNMA6A	0	15.76670413	8.889381852
RPL7AP53	0	0.829826533	0
FBXL12P1	0	0.829826533	0
ENSG0000	7.704496914	0.829826533	30.00166375
ENSG0000	1.100642416	0	0
GPC5-AS1	0	19.9158368	0
MORC2-A	2.201284833	1.659653067	0
RPL23AP2	0	0.829826533	0
GRAMD4I	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
LINC0193(	2.201284833	0	0
LINC0181-	4.402569665	5.808785734	0
LINC0294	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	1.100642416	3.319306133	10.00055458
COP1-DT	0	2.4894796	0
EYA2-AS1	0	0.829826533	0
OR5H14	7.704496914	0	0
NSA2P1	1.100642416	2.4894796	0
LINC0288	1.100642416	2.4894796	1.111172731
CHIAP1	0	0.829826533	0
FABP5P2	1.100642416	1.659653067	2.222345463
ENSG0000	1.100642416	0	0
RPL13AP1	3.301927249	1.659653067	0
SSBL5P	2.201284833	4.149132667	0
LINC0192(	0	0.829826533	1.111172731
MYCBP2-/	4.402569665	2.4894796	8.889381852
LINC0164	1.100642416	0	0
RPL17P36	4.402569665	1.659653067	1.111172731
HSPB1P1	58.33404806	2.4894796	11.11172731
GSTM5P1	0	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
HMGN2P2	0	2.4894796	0
COX10-DT	33.01927249	44.8106328	4.444690926
LDHAP3	2.201284833	0.829826533	0
ENSG0000	3.301927249	4.9789592	0
ENSG0000	0	0.829826533	0
PRELID3B	1.100642416	0	0
SCN1A-AS	22.01284833	6.638612267	11.11172731

RPL6P1	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
LINC0307(	0	0.829826533	0
HAUS6P2	0	0.829826533	0
CEACAMI	1.100642416	0	0
USP17L4	3.301927249	2.4894796	0
PTCSC2	2.201284833	2.4894796	3.333518194
MED13P1	3.301927249	0	0
CD101-AS	3.301927249	17.4263572	20.00110917
TMEM147	31.91863007	118.6651943	255.5697282
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
MRPS36P1	3.301927249	10.78774493	6.667036389
ENSG0000	0	1.659653067	4.444690926
ZPLD2P	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
PRADC1P	1.100642416	0	1.111172731
RPL12P26	1.100642416	0	0
MIR7515H	0	0.829826533	0
ENOPH1P	1.100642416	0.829826533	1.111172731
TCEA1P4	0	1.659653067	0
GJA6P	1.100642416	0	1.111172731
ENSG0000	3.301927249	17.4263572	0
KDM4A-A	0	4.149132667	0
GRM7-AS	0	3.319306133	0
LINC0137(	13.207709	13.27722453	7.77820912
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
CDC42EP3	2.201284833	0.829826533	0
PPP1R11P	0	2.4894796	2.222345463
C1DP2	0	0.829826533	4.444690926
VEZF1P1	20.91220591	18.25618373	3.333518194
ENSG0000	1.100642416	3.319306133	0
GPC5-IT1	0	14.9368776	0
DDX5P1	0	7.4684388	0
TMEM258	0	0	1.111172731
SLC25A3P	1.100642416	0	0
MTND4P1	7.704496914	6.638612267	2.222345463
ENSG0000	2.201284833	7.4684388	0
EI24P2	1.100642416	0.829826533	0
RPL26P30	3.301927249	4.149132667	4.444690926
ENSG0000	2.201284833	0.829826533	0
LINC0136	1.100642416	0.829826533	0

NDP-AS1	0	0.829826533	0
CLEC2L	0	3.319306133	3.333518194
NDUFB9P	0	0	1.111172731
ENSG0000	40.7237694	154.3477352	20.00110917
NPM1P8	1.100642416	0	0
ZBED5	1339.481821	991.6427074	627.8125933
GUSBP5	0	4.9789592	0
EEF1A1P2	0	1.659653067	0
ENSG0000	3.301927249	0	0
MRGPRG-	2.201284833	0.829826533	0
LINC0264	2.201284833	10.78774493	0
ENSG0000	0	0.829826533	0
SLC12A9-	3.301927249	1.659653067	0
EEF1E1P1	1.100642416	6.638612267	2.222345463
ENSG0000	3.301927249	0.829826533	0
TLX1NB	0	0.829826533	0
RPL34P34	0	0.829826533	0
OR7E109P	0	0	8.889381852
ENSG0000	2.201284833	0	2.222345463
SLFN14	14.30835141	10.78774493	27.77931829
RPL5P9	3.301927249	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
TRHDE-AS	9.905781747	8.298265334	2.222345463
PPIAL4G	4.402569665	0	2.222345463
FMR1-IT1	0	0.829826533	0
PSMC1P10	2.201284833	0.829826533	2.222345463
SUCLG2P2	6.603854498	0	0
ENSG0000	0	0	1.111172731
LINC0043	0	0	2.222345463
ENSG0000	5.503212081	9.128091867	1.111172731
OR51B8P	0	1.659653067	0
RRAS2P1	19.81156349	16.59653067	10.00055458
ENSG0000	0	0	7.77820912
LINC0265	0	0.829826533	0
POU5F1P5	3.301927249	4.149132667	0
ENSG0000	2.201284833	2.4894796	0
VENTXP7	0	0.829826533	0
KRTAP10-	0	0.829826533	0
CCDC200	0	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	1.111172731
SLC35G4	2.201284833	1.659653067	0

DDX11L2	16.50963624	26.55444907	17.7787637
TAS2R39	9.905781747	0.829826533	0
KRTAP21-	0	0.829826533	1.111172731
SLC4A1AI	2.201284833	0	0
VLDLR-AS	6.603854498	1.659653067	0
NRADDP	0	0.829826533	0
CTSLP1	0	0	1.111172731
LINC0113	1.100642416	33.19306133	0
ENSG0000	0	0.829826533	2.222345463
CCDST	1.100642416	3.319306133	0
MFF-DT	35.22055732	21.57548987	20.00110917
TSPY12P	1.100642416	0	0
RPS27P8	2.201284833	2.4894796	0
COPRSP1	0	0.829826533	0
UBE2L5	5.503212081	0	0
ATG10-IT1	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	5.808785734	0
ENSG0000	8.80513933	9.128091867	5.555863657
ENSG0000	2.201284833	6.638612267	0
HNRNPA1	2.201284833	0	1.111172731
KCNMA1-	1.100642416	2.4894796	0
EEF1A1P4	0	0	3.333518194
ENSG0000	0	0	4.444690926
KRT43P	1.100642416	0	0
GCNT1P1	1.100642416	3.319306133	0
ENSG0000	0	0	4.444690926
PKMP1	0	4.149132667	4.444690926
MTND2P4	0	0	1.111172731
RPL34P10	0	1.659653067	0
ENSG0000	0	0.829826533	0
EIF2S2P3	2.201284833	6.638612267	0
GPS2P1	6.603854498	12.447398	6.667036389
LINC0089(	1.100642416	1.659653067	0
ENSG0000	3.301927249	1.659653067	0
SIX3-AS1	0	4.149132667	0
ENSG0000	0	1.659653067	2.222345463
ENSG0000	0	0	2.222345463
LINC0123	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0142	3.301927249	9.9579184	0
ENSG0000	0	3.319306133	0

BTBD3-AS	1.100642416	0	1.111172731
ARF4P2	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	4.402569665	4.9789592	0
KPNA2P1	4.402569665	4.149132667	14.44524551
LINC0169	8.80513933	9.9579184	2.222345463
RPS12P4	0	0.829826533	0
H3P36	1.100642416	0.829826533	1.111172731
RC3H1-IT1	2.201284833	11.61757147	3.333518194
HNRNPA1	1.100642416	1.659653067	0
MED28P7	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
MYCL-AS	0	0.829826533	0
RNF217-A	2.201284833	4.149132667	2.222345463
ENSG0000	2.201284833	0	0
RPL13AP5	81.44753881	60.57733694	25.55697282
ENSG0000	1.100642416	0	0
IFITM3P1	0	4.149132667	2.222345463
HNRNPA3	35.22055732	89.6212656	26.66814555
TCF3P1	3.301927249	0.829826533	0
HNRNPA1	2.201284833	0	0
RAD23BP1	3.301927249	1.659653067	14.44524551
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	8.298265334	1.111172731
SNRPGP14	1.100642416	0	0
PRPF38AP	4.402569665	2.4894796	3.333518194
ENSG0000	2.201284833	0.829826533	3.333518194
CRLF3P1	0	0.829826533	0
ENSG0000	1.100642416	0	0
EIF4A1P6	0	0	2.222345463
ZNF853	94.6552478	32.3632348	45.55808199
CHFR-DT	1.100642416	4.9789592	0
PITPNA-A	7.704496914	34.02288787	1.111172731
MTND5P1	0	0.829826533	0
ENSG0000	6.603854498	4.149132667	1.111172731
IFNA4	7.704496914	0	2.222345463
ENSG0000	0	0.829826533	0
LAMTOR5	27.51606041	5.808785734	5.555863657
DLX2-DT	1.100642416	0	0
LINC0192	2.201284833	0	0
ENSG0000	13.207709	1.659653067	1.111172731
ENSG0000	13.207709	7.4684388	0
FRGCA	1.100642416	4.149132667	0

ENSG0000	6.603854498	0	0
POTEH-AS	38.52248457	3.319306133	0
KRT18P5	0	2.4894796	1.111172731
PRKG1-AS	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
MTX1P1	1.100642416	0	0
LINC0034	0	0.829826533	0
ENSG0000	1.100642416	0	3.333518194
MAP3K2-I	7.704496914	3.319306133	2.222345463
BZW1P1	0	0	4.444690926
MTCO1P1	2.201284833	0	0
HNRNPA1	1.100642416	0	0
EIF1AXP1	2.201284833	1.659653067	0
ARHGEF3	1612.44114	42.3211532	1240.068768
ENSG0000	1.100642416	0	2.222345463
MYB-AS1	0	0	5.555863657
CNOT4P1	1.100642416	0	0
SDK1-AS1	1.100642416	0	0
DAPK1-IT	2.201284833	14.10705107	1.111172731
SMAD9-IT	1.100642416	13.27722453	1.111172731
LINC0184	1.100642416	0	0
ENSG0000	18.71092108	24.894796	62.22567296
ENSG0000	0	1.659653067	0
RPL21P13	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
CLIC4P1	4.402569665	5.808785734	2.222345463
YRDCP2	1.100642416	0	0
ENSG0000	1.100642416	0	0
MKLN1-A	6.603854498	10.78774493	0
ENSG0000	7.704496914	2.4894796	6.667036389
DNAJC9-A	6.603854498	3.319306133	4.444690926
ENSG0000	1.100642416	2.4894796	0
CTAGE9	7.704496914	2.4894796	1.111172731
RPL19P16	1.100642416	0	0
COX7A2P2	1.100642416	0	0
RPL17P16	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	12.22290005
ENSG0000	8.80513933	28.21410213	4.444690926
INTS6-AS1	11.00642416	19.9158368	1.111172731
ENSG0000	0	0.829826533	1.111172731
LINC0182	3.301927249	0.829826533	0
ZNF593OS	1.100642416	0	5.555863657
SDR42E1P	1.100642416	0.829826533	2.222345463
LINC0029	5.503212081	13.27722453	1.111172731

ENSG0000	9.905781747	68.04577574	14.44524551
BCRP8	1.100642416	0	0
ENSG0000	1.100642416	4.149132667	0
SPA17P1	0	0.829826533	3.333518194
RPL24P8	13.207709	16.59653067	4.444690926
RPS3AP12	1.100642416	3.319306133	1.111172731
RPL7AP15	2.201284833	0	0
SNX25P1	15.40899383	8.298265334	3.333518194
ELOA-AS1	3.301927249	12.447398	2.222345463
GAPDHP2	1.100642416	0	0
ENSG0000	28.61670282	32.3632348	35.55752741
ENSG0000	2.201284833	0	0
ARL5AP2	4.402569665	0	0
BCYRN1	5.503212081	4.9789592	0
ENSG0000	4.402569665	6.638612267	0
CBR3-AS1	205.8201318	64.7264696	104.4502368
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	10.00055458
RPL24P6	0	0	1.111172731
LINC0147	2.201284833	3.319306133	0
SSBL2P	0	0.829826533	0
ENSG0000	2.201284833	0	0
NIFK-AS1	13.207709	19.08601027	2.222345463
PPIAP36	1.100642416	0	2.222345463
TMSB4XP	0	1.659653067	1.111172731
SETD6P1	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
MIR600HC	19.81156349	72.1949084	20.00110917
LINC0282	1.100642416	1.659653067	0
LINC0185	0	0	1.111172731
CLCA4-AS	3.301927249	8.298265334	14.44524551
PHKG1P3	0	0	3.333518194
LINC0137	1.100642416	0	0
ENSG0000	11.00642416	19.9158368	7.77820912
SDHDP4	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0	2.222345463
PTGES3P4	0	0.829826533	0
BAALC-A	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ZDHHC20	1.100642416	3.319306133	0
NF1P8	0	1.659653067	0

SULT1D1I	0	0.829826533	0
OR52N3P	0	0	1.111172731
FABP5P1	0	0.829826533	0
GAPDHP5	1.100642416	0	0
LINC0281	1.100642416	0.829826533	2.222345463
ANKRD44	4.402569665	32.3632348	2.222345463
C3orf84	1.100642416	0	0
OR10G9	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
EDRF1-AS	2.201284833	0.829826533	5.555863657
RPL12P12	7.704496914	8.298265334	3.333518194
GAPDHP2	0	2.4894796	0
ATP2B2-IT	0	0.829826533	0
PTMAP6	0	0.829826533	0
WASF3-AS	1.100642416	0.829826533	0
RPL36AP1	0	0.829826533	0
ZNRF2P1	5.503212081	5.808785734	4.444690926
KRT18P52	2.201284833	0	2.222345463
GLIS3-AS1	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0181	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
PRPF31-AS	0	1.659653067	2.222345463
ENSG0000	1.100642416	0.829826533	0
CASP3P1	1.100642416	0	0
ZEB1-AS1	14.30835141	38.17202053	1.111172731
RPS28P4	5.503212081	3.319306133	2.222345463
PRMT5-AS	3.301927249	6.638612267	10.00055458
LINC0208	0	0.829826533	0
EIF3IP1	0	0.829826533	0
NANOGP4	9.905781747	9.128091867	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
COX5BP6	1.100642416	0.829826533	0
MKRN8P	1.100642416	0.829826533	3.333518194
LINC0106	1.100642416	0	0
ENSG0000	6.603854498	0.829826533	0
RPL21P11	0	0.829826533	0
TAAR9	0	2.4894796	0
ENSG0000	0	2.4894796	3.333518194
CYP2F2P	0	0	4.444690926
LINC0105	1.100642416	0	0
MTND2P1	0	0	2.222345463

HAND2-A	3.301927249	3.319306133	0
ENSG0000	1.100642416	0	5.555863657
MRPS6P2	0	0	1.111172731
DDX10P1	3.301927249	1.659653067	0
C4orf51	4.402569665	3.319306133	0
HUNK-AS	0	0.829826533	1.111172731
ZNF503-A	3.301927249	14.10705107	3.333518194
MCFD2P1	0	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	0
RPS20P9	1.100642416	0.829826533	0
SLC25A15	1.100642416	0	0
LINC0179	0	0.829826533	0
RPL12P27	0	1.659653067	0
B3GNT9	78.14561156	26.55444907	115.5619641
ENSG0000	1.100642416	0	0
VN1R66P	1.100642416	0	0
NR2F1-AS	83.64882364	75.51421454	13.33407278
ENSG0000	1.100642416	4.149132667	0
CDKN2AI	51.73019357	136.921378	50.00277291
SNAI1P1	2.201284833	3.319306133	3.333518194
ZBTB40-I	2.201284833	1.659653067	0
SETP4	0	0	1.111172731
ENSG0000	0	1.659653067	3.333518194
ENSG0000	7.704496914	7.4684388	37.77987287
LINC0196	2.201284833	2.4894796	0
ZNF295-A	0	3.319306133	0
TMEM26-	5.503212081	0.829826533	14.44524551
ENSG0000	3.301927249	0	8.889381852
TRDD2	2.201284833	0	0
BTF3P15	1.100642416	0	0
CREB3L2-	1.100642416	0	3.333518194
MBD3L5	1.100642416	0.829826533	0
LINC0098	5.503212081	4.149132667	0
ENSG0000	0	16.59653067	6.667036389
ENSG0000	1.100642416	0	0
MMADHC	0	0.829826533	0
TRBV30	1.100642416	0	0
ZNF133-A	0	0	2.222345463
PPIAP67	1.100642416	2.4894796	0
MAPK6P3	0	1.659653067	0
FTH1P11	7.704496914	5.808785734	46.66925472
ENSG0000	0	0.829826533	0

LINC0151	0	0	1.111172731
RSL24D1P	0	1.659653067	0
GTF3AP1	0	0.829826533	0
RLIMP2	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	0
CATIP-AS	1.100642416	0	1.111172731
LINC0085	0	0.829826533	0
CKMT1B	33.01927249	69.7054288	10.00055458
LINC0134	0	0	1.111172731
LINC0173	0	0.829826533	0
EIF4BP9	0	0.829826533	1.111172731
TTN-AS1	855.1991575	195.8390619	820.0454758
MTCO1P1	0	0.829826533	0
ENSG0000	4.402569665	0.829826533	1.111172731
SRRM1P3	1.100642416	2.4894796	3.333518194
LINC0301	2.201284833	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
RNF223	5.503212081	1.659653067	3.333518194
LINC0150	0	0.829826533	1.111172731
SYP-AS1	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
CDC42P6	8.80513933	8.298265334	12.22290005
ITPK1P1	1.100642416	0	0
LINC0135	5.503212081	1.659653067	1.111172731
PATE4	1.100642416	1.659653067	0
ENSG0000	3.301927249	40.66150013	0
ENSG0000	5.503212081	9.128091867	4.444690926
TUSC8	4.402569665	1.659653067	0
LINC0306	1.100642416	1.659653067	0
BRWD1-IT	0	4.9789592	0
HOXD-AS	2.201284833	4.9789592	0
CNN2P11	1.100642416	0.829826533	0
OR4A47	0	4.149132667	0
ENSG0000	0	0.829826533	1.111172731
PITRM1-A	6.603854498	7.4684388	1.111172731
LINC0130	0	0.829826533	0
CAMTA1-	0	1.659653067	0
NRXN2-AS	0	0.829826533	0
PRSS56	4.402569665	2.4894796	4.444690926
NRBF2P3	1.100642416	0	0
XRCC6P1	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	0

ENSG0000	2.201284833	11.61757147	2.222345463
FOXD2-AS	6.603854498	34.02288787	0
ENSG0000	1.100642416	0	0
RPSAP11	0	0.829826533	0
LINC0279(	1.100642416	0.829826533	0
CAMTA1-	1.100642416	0.829826533	0
ZNF737	613.0578259	940.1934623	1137.840877
HNRNPA1	0	0.829826533	0
OR13D2P	0	0.829826533	0
ENSG0000	0	0.829826533	0
TAAR4P	0	0.829826533	0
MEIOSIN	2.201284833	0.829826533	10.00055458
ENSG0000	8.80513933	8.298265334	1.111172731
LRRC52-A	0	0.829826533	0
ADGB-DT	2.201284833	0	1.111172731
TUBB8P1(	0	0.829826533	2.222345463
DCLRE1C	3.301927249	5.808785734	2.222345463
ENSG0000	1.100642416	0.829826533	0
LINC0163	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	2.4894796	0
ENSG0000	0	16.59653067	0
ENSG0000	1.100642416	0	0
LINC0168	1.100642416	1.659653067	2.222345463
C10orf143	5.503212081	13.27722453	5.555863657
LINC0140	17.61027866	3.319306133	1.111172731
OR2L9P	1.100642416	0	0
ENSG0000	17.61027866	39.8316736	45.55808199
ENSG0000	0	0.829826533	0
WAKMAR	4.402569665	1.659653067	0
PKN2-AS1	2.201284833	4.149132667	0
RPSAP15	28.61670282	30.70358173	5.555863657
UNC5B-AS	1.100642416	1.659653067	0
PTP4A1P7	3.301927249	0	0
SHISA9	25.31477557	60.57733694	6.667036389
OR7E24	0	0.829826533	1.111172731
NONOP2	3.301927249	0.829826533	0
LINC0085	2.201284833	0	0
TEX51	2.201284833	0	8.889381852
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
HLA-DQA	0	0.829826533	2.222345463
MTCO3P1	1.100642416	0	0
RPS6P3	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
TUBAP1	0	0	1.111172731
LINC0151	1.100642416	0	0
ENSG0000	1.100642416	0	0
RAC1P4	3.301927249	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
HMGN1P3	1.100642416	0	0
TIAM1-AS	3.301927249	34.8527144	0
LINC0127	2.201284833	0	0
PDE7B-AS	1.100642416	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
DYRK3-AS	0	0.829826533	0
OR4C50P	0	0	1.111172731
GCNT1P5	1.100642416	0	0
OR9A1P	0	4.149132667	1.111172731
OXCT2P1	27.51606041	10.78774493	12.22290005
ENSG0000	0	0.829826533	0
MTCO2P1	11.00642416	7.4684388	0
UQCRHP2	0	0.829826533	1.111172731
PARK7P2	4.402569665	3.319306133	0
ENSG0000	2.201284833	0.829826533	4.444690926
ANKRD26	1.100642416	0	0
LINC0224	3.301927249	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
HMGB3P5	2.201284833	0.829826533	0
HLCS-IT1	1.100642416	2.4894796	0
KIFC1	0	68.04577574	1.111172731
C2orf74	4.402569665	4.149132667	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
TNIP2P1	0	0	1.111172731
RPS15AP3	0	0	1.111172731
LINC0186	0	3.319306133	0
GSTA7P	1.100642416	0	0
PRKCIP1	3.301927249	2.4894796	13.33407278
SCIRT	1.100642416	4.149132667	10.00055458
IRGM	1.100642416	0	16.66759097
PRAMEF3	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	0
TRIM51EP	0	1.659653067	1.111172731

SPIN2P1	0	0	3.333518194
EEF1A1P2	1.100642416	0	0
MTCO3P1	5.503212081	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	1.111172731
CT75	1.100642416	0	0
RNF216-IT	1.100642416	4.149132667	0
HEY2-AS1	1.100642416	0.829826533	0
FBP2P1	0	0	1.111172731
EIF3JP3	1.100642416	0	0
UQCRBP1	4.402569665	19.9158368	1.111172731
KCNH7-AS	0	0.829826533	0
LINC0114	0	3.319306133	0
SLC20A1-I	1.100642416	8.298265334	0
ENSG0000	0	0.829826533	0
EEF1A1P3	3.301927249	4.149132667	0
BANF1P3	0	1.659653067	0
ENSG0000	0	1.659653067	0
AMY1A	3.301927249	1.659653067	0
FAM200B	116.6680961	141.9003372	115.5619641
GGTA2P	1.100642416	0.829826533	1.111172731
LINC0137(	0	3.319306133	0
LINC0263	2.201284833	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ADAMTSI	25.31477557	32.3632348	67.78153662
PLLPP1	2.201284833	0	0
GFOD1-AS	0	2.4894796	0
LINC0287	1.100642416	0	0
ENSG0000	8.80513933	3.319306133	1.111172731
PIRAT1	0	2.4894796	0
HNRNPA1	0	1.659653067	2.222345463
LINC0298	228.9336226	14.9368776	33.33518194
ENSG0000	0	1.659653067	0
RPS3AP29	4.402569665	0	1.111172731
ST13P7	4.402569665	2.4894796	1.111172731
RPS15AP2	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
PHKA2-AS	2.201284833	0.829826533	2.222345463
FAM21FP	4.402569665	0.829826533	7.77820912
SMU1P1	31.91863007	69.7054288	65.55919115
ENSG0000	0	0.829826533	0
NFYAP1	0	29.04392867	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
NFIA-AS1	0	0.829826533	0
EEF1A1P3	4.402569665	0	0
ENSG0000	3.301927249	8.298265334	11.11172731
ENSG0000	0	3.319306133	0
IRS4-AS1	0	1.659653067	0
ENSG0000	1.100642416	0	0
POU5F1P4	1.100642416	0	8.889381852
ENSG0000	0	5.808785734	0
LINC0147	13.207709	5.808785734	1.111172731
LINC0039	1.100642416	0	0
LINC0188	0	3.319306133	0
PPIAP13	0	0.829826533	0
DGUOK-A	4.402569665	1.659653067	1.111172731
RPL23AP3	4.402569665	0	0
KLF7-IT1	6.603854498	8.298265334	0
MATR3P3	2.201284833	2.4894796	0
ENSG0000	0	2.4894796	0
MTCO1P1	0	0.829826533	0
ENSG0000	0	0	1.111172731
NFIA-AS2	2.201284833	1.659653067	0
CLIC4P3	7.704496914	4.149132667	2.222345463
ENSG0000	1.100642416	2.4894796	0
ENSG0000	2.201284833	4.9789592	0
PRKCQ-AS	2.201284833	0.829826533	0
LINC0064	35.22055732	35.68254093	3.333518194
LINC0084	1.100642416	0	0
LINC0291	3.301927249	2.4894796	1.111172731
ENSG0000	0	0	1.111172731
RAD52P1	0	2.4894796	0
TUBG1P	0	0	2.222345463
MTCO1P1	23.11349074	63.89664307	2.222345463
FLG-AS1	61.63597531	93.77039827	307.7948466
RFX5-AS1	0	2.4894796	0
EIF4HP2	3.301927249	0	1.111172731
KCNMB2-	2.201284833	6.638612267	0
LINC0277	1.100642416	0.829826533	0
PTENP1	36.32119974	93.77039827	21.1122819
LINC0167	2.201284833	2.4894796	0
CNTN4-AS	4.402569665	0.829826533	4.444690926
RPL35P1	16.50963624	19.08601027	7.77820912
ACTG1P1	0	0.829826533	3.333518194
PSME2P1	4.402569665	8.298265334	6.667036389

RPL10P4	0	0	1.111172731
ENSG0000	0	0	1.111172731
LNCATV	2.201284833	0	0
COX6CP1(	0	0	2.222345463
ENSG0000	0	0	1.111172731
SPTBN1-A	0	1.659653067	7.77820912
HTR3E-AS	3.301927249	3.319306133	1.111172731
ODAD2P1	1.100642416	0	1.111172731
ZDHHC4P	0	0	1.111172731
RALBP1P2	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	7.77820912
ATP6V0E1	0	0.829826533	0
ENSG0000	28.61670282	17.4263572	126.6736914
TMEM230	14.30835141	5.808785734	8.889381852
MVP-DT	3.301927249	5.808785734	30.00166375
RPL36AP2	0	0.829826533	0
CAMSAP1	17.61027866	25.72462253	2.222345463
HSPE1P21	0	0	1.111172731
SPATA3-A	1.100642416	0	2.222345463
LINC0168	0	0.829826533	0
LRRC57P1	1.100642416	0	0
CDC26P1	42.92505424	36.51236747	27.77931829
MRPL48P1	0	0.829826533	2.222345463
NMNAT1P	0	0	3.333518194
NUDCP2	1.100642416	0.829826533	2.222345463
LRRC37A2	180.5053563	101.2388371	161.1200461
ENSG0000	0	0.829826533	0
PPP1R26P	2.201284833	0	6.667036389
FMO8P	0	1.659653067	0
LINC0203	0	2.4894796	0
ABCA17P	0	2.4894796	12.22290005
LINC0162	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
RPL9P7	3.301927249	7.4684388	4.444690926
GOLGA2P	0	3.319306133	0
RNF14P3	2.201284833	0.829826533	2.222345463
ENSG0000	3.301927249	4.9789592	3.333518194
LINC0141(	4.402569665	0.829826533	0
RAD21P1	3.301927249	0	4.444690926
LINC0042(	7.704496914	3.319306133	0
MID1IP1-A	0	0.829826533	0
SLC9A3P2	1.100642416	0	0
ENSG0000	0	0.829826533	0

GOLM2P1	3.301927249	0	0
MAP3K20	0	2.4894796	0
ARPC3P2	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	3.301927249	0	0
BRWD1-A	1.100642416	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
OR7E117P	0	0	2.222345463
TNFRSF14	2.201284833	0	0
ENSG0000	2.201284833	6.638612267	2.222345463
IFITM3P5	0	0.829826533	1.111172731
LINC0105	0	1.659653067	0
ENSG0000	0	1.659653067	0
RPS2P35	1.100642416	0	2.222345463
ENSG0000	0	0	3.333518194
RPL21P34	1.100642416	0	0
CD81-AS1	0	1.659653067	0
ENSG0000	0	0	2.222345463
ENOX1-AS	1.100642416	0	0
HADHBP1	0	0	1.111172731
PHACTR3	0	0.829826533	0
PAXBP1-A	22.01284833	69.7054288	21.1122819
LRIG2-DT	0	0	1.111172731
ENSG0000	1.100642416	0	0
TARDBPP	1.100642416	11.61757147	3.333518194
ENSG0000	0	0.829826533	1.111172731
MKRN4P	0	14.10705107	0
TMEM250	52.83083598	77.1738676	195.5664007
OR7E7P	9.905781747	9.128091867	3.333518194
LINC0039	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
TSPY11P	0	1.659653067	0
LINC0277	0	0	1.111172731
OR2W3	6.603854498	12.447398	21.1122819
MYO5BP2	1.100642416	2.4894796	14.44524551
ENSG0000	0	0.829826533	0
RDXP3	0	0.829826533	0
ENSG0000	2.201284833	0	4.444690926
PHF5AP5	5.503212081	5.808785734	5.555863657
ENSG0000	0	3.319306133	0
LINC0070	0	1.659653067	1.111172731
PAGE2B	0	4.149132667	8.889381852
ENSG0000	6.603854498	0.829826533	0

ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	1.659653067	15.55641824
TBC1D3P1	0	0	3.333518194
LINC0144	0	3.319306133	0
MRPL50P2	1.100642416	0.829826533	2.222345463
SLC35E1P	6.603854498	4.149132667	4.444690926
EXO5-DT	2.201284833	7.4684388	1.111172731
ERRFI1-D	0	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
SNORD13	0	1.659653067	0
SNORD11	2.201284833	1.659653067	0
RN7SKP19	1.100642416	0	0
RNU7-57P	1.100642416	1.659653067	0
ENSG0000	0	3.319306133	0
ENSG0000	0	5.808785734	0
RNA5SP23	0	0.829826533	0
RNU7-87P	0	0.829826533	0
SNORD10	0	0.829826533	0
RNU7-93P	0	0.829826533	0
ENSG0000	0	0.829826533	0
SNORD4A	1.100642416	0	0
Y_RNA.11	0	1.659653067	0
ENSG0000	0	0.829826533	0
Y_RNA.11	0	2.4894796	0
SCARNA7	791.3618973	590.0066652	61.11450023
SCARNA1	0	1.659653067	0
RNU7-141	0	1.659653067	0
RNU7-80P	0	0.829826533	0
ENSG0000	0	0	1.111172731
RNU7-127	3.301927249	0.829826533	0
Y_RNA.11	0	0.829826533	0
RNVU1-2	0	2.4894796	0
RNU7-45P	0	1.659653067	0
RNU7-46P	0	0.829826533	0
SCARNA1	0	0.829826533	0
LINC0203	0	0	1.111172731
U8.1	0	0.829826533	0
RNU7-82P	0	1.659653067	0
ENSG0000	0	0.829826533	0
RNU7-19P	0	1.659653067	0
SNORA47	17.61027866	38.17202053	0
ENSG0000	0	1.659653067	0
RNU7-133	0	0.829826533	0

RNU7-187	0	0.829826533	0
SCARNA1	0	1.659653067	0
ENSG0000	0	1.659653067	0
RNU7-95P	1.100642416	0	0
RNA5SP24	1.100642416	0	0
SNORD13	2.201284833	18.25618373	0
Y_RNA.11	8.80513933	9.9579184	0
RNU7-185	0	0	1.111172731
RNU7-119	7.704496914	2.4894796	1.111172731
RNU2-11P	0	1.659653067	0
SNORA59	1.100642416	0	0
RNU7-195	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
RPL21P6	1.100642416	0	3.333518194
LINC0202	0	0.829826533	0
NCK1-DT	14.30835141	14.9368776	5.555863657
RPS20P22	5.503212081	6.638612267	0
FHL1P1	0	1.659653067	0
RPL34P31	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
RN7SL757	1.100642416	0	0
RPL35AP3	1.100642416	0	0
RBM43P1	1.100642416	0.829826533	0
TXNDC5	96.85653263	56.42820427	92.22733671
CLRN1-AS	1.100642416	1.659653067	0
LINC0305	3.301927249	24.894796	11.11172731
RPL21P10	17.61027866	4.9789592	5.555863657
RN7SL184	0	0.829826533	0
DBTP1	3.301927249	7.4684388	1.111172731
CASTOR1	18.71092108	4.9789592	15.55641824
ENSG0000	3.301927249	1.659653067	2.222345463
ENSG0000	2.201284833	0.829826533	0
RNF103	1046.710938	988.3234012	1022.278913
RBM14	920.13706	1299.508351	992.2772492
ENSG0000	1.100642416	0	0
MORC1-A	0	0.829826533	0
RN7SL11P	1.100642416	0	0
RPL35AP1	1.100642416	0	0
LINC0111	1.100642416	1.659653067	0
RN7SL658	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
HNRNPA1	0	0	7.77820912
RPS26P49	0	1.659653067	0

ENSG0000	0	0	1.111172731
ALKBH6	12.10706658	16.59653067	8.889381852
VPS51P4	0	0.829826533	0
ASB14	1.100642416	1.659653067	3.333518194
PCDHA13	0	0	1.111172731
ENSG0000	2.201284833	1.659653067	0
RN7SL414	1.100642416	0	0
RN7SL342	1.100642416	0	0
ENSG0000	8.80513933	15.76670413	0
RPL21P71	1.100642416	0	3.333518194
ENSG0000	4.402569665	9.128091867	3.333518194
RN7SL535	0	1.659653067	0
OR8F1P	0	5.808785734	0
GM2AP2	0	0.829826533	0
KCNMB3I	3.301927249	1.659653067	0
RN7SL752	0	2.4894796	0
LINC0200	2.201284833	2.4894796	0
ST3GAL6-	2.201284833	4.9789592	0
PTPN11P1	3.301927249	1.659653067	2.222345463
ENSG0000	0	2.4894796	0
RN7SL569	0	0.829826533	1.111172731
RPL21P97	0	0.829826533	0
KLHL41	78.14561156	70.53525534	42.22456379
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
RN7SL333	0	4.149132667	0
ENSG0000	0	0.829826533	0
LINC0121(	1.100642416	0	0
MYLK-AS	25.31477557	63.06681654	17.7787637
RPL32P34	0	0.829826533	0
RPS23P7	1.100642416	0	0
RPS14P8	2.201284833	0	1.111172731
RPL21P45	3.301927249	0.829826533	0
RN7SL843	0	0	1.111172731
HOXB-AS	3.301927249	0.829826533	0
RN7SL12P	0	0	1.111172731
UPK3BL3I	22.01284833	13.27722453	26.66814555
PPP2R5CP	3.301927249	14.9368776	24.44580009
RPL37P2	0	4.149132667	0
KMT2E-A	5.503212081	0.829826533	1.111172731
SETP11	1.100642416	0	0
IGKV2D-3	38.52248457	0	0
ENSG0000	3.301927249	0	0
RN7SL388	0	2.4894796	0

MTND1P1	1.100642416	0	0
OR1J4	3.301927249	25.72462253	12.22290005
ENSG0000	0	0.829826533	0
RPL35AP1	1.100642416	0	0
STPG4	7.704496914	3.319306133	0
HMGN1P7	0	0.829826533	0
ENSG0000	0	0.829826533	0
RPSAP41	1.100642416	0	0
RPL12P20	22.01284833	10.78774493	3.333518194
TFAP2E-A	1.100642416	4.149132667	3.333518194
MYADML	0	0.829826533	4.444690926
GUSBP4	0	0	1.111172731
PSMD6-AS	19.81156349	8.298265334	0
RPL9P31	0	0.829826533	0
ENSG0000	0	0.829826533	0
NME1	91.35332055	156.8372148	12.22290005
RPL7AP67	0	0.829826533	0
TNFSF12	44.02569665	43.15097974	57.78098203
HNRNPA3	0	1.659653067	2.222345463
ENSG0000	0	1.659653067	0
CDRT4	7.704496914	11.61757147	1.111172731
HSPA5-DT	1.100642416	2.4894796	0
APOBEC3	178.3040714	9.9579184	56.6698093
HLTF-AS1	1.100642416	0	4.444690926
ENSG0000	0	0.829826533	0
RN7SL688	1.100642416	0	0
RN7SL795	0	0.829826533	0
RPL21P11	1.100642416	3.319306133	0
WBP1	34.11991491	13.27722453	70.00388208
ENSG0000	2.201284833	0	0
MRPS17	5.503212081	5.808785734	2.222345463
ENSG0000	2.201284833	7.4684388	0
CDRT15P5	1.100642416	0.829826533	0
RPL21P39	2.201284833	2.4894796	1.111172731
DENND6A	0	4.149132667	0
ENSG0000	0	1.659653067	0
RN7SL213	0	0.829826533	0
RN7SL513	1.100642416	0	0
RN7SL754	0	0.829826533	0
SUGT1P3	0	3.319306133	0
RPS4XP22	1.100642416	0	0
RNF7P1	0	0.829826533	0
PARLP1	1.100642416	0	0
DEFA3	0	15.76670413	0

GET4	75.94432672	34.02288787	8.889381852
RN7SL34P	0	0	2.222345463
RPL21P55	0	0	2.222345463
RPS27P25	0	2.4894796	0
PARGP1	80.34689639	57.2580308	53.33629111
RN7SL608	1.100642416	2.4894796	0
C1orf226	29.71734524	29.8737552	40.00221833
RN7SL792	0	0	2.222345463
RN7SL674	0	11.61757147	1.111172731
ADSL	89.15203572	87.96161254	45.55808199
RN7SL530	3.301927249	2.4894796	3.333518194
PRKAG2-A	4.402569665	3.319306133	0
RPL39P36	0	0.829826533	3.333518194
RPS10P16	0	0	1.111172731
ENSG0000	3.301927249	1.659653067	4.444690926
LINC0147	0	3.319306133	1.111172731
ENSG0000	0	0	1.111172731
RN7SL864	0	2.4894796	0
PRDX3P4	1.100642416	0	0
RN7SL606	0	0.829826533	0
ZBTB20-A	1.100642416	0	0
IGKV3-20	3.301927249	0	0
IGKV1D-3	25.31477557	2.4894796	0
TPT1P11	0	0.829826533	0
RPL7P24	1.100642416	0	2.222345463
STIM2-AS	1.100642416	0	0
LINC0200	1.100642416	0	0
SLC9A9-A	0	1.659653067	0
RN7SL254	1.100642416	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
TEX35	4.402569665	4.149132667	18.88993643
OR9A3P	0	0.829826533	0
LNCSRLR	0	1.659653067	0
ENSG0000	7.704496914	2.4894796	2.222345463
AMY2B	444.6595362	147.7091229	823.378994
DDX50P2	2.201284833	12.447398	7.77820912
RPL23AP1	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
NEPRO-AS	6.603854498	9.9579184	10.00055458
ARGFXP1	0	0	2.222345463
PSMB9	1.100642416	0	0
ENSG0000	0	24.06496947	0
RPSAP12	9.905781747	14.10705107	13.33407278
RN7SL351	0	0.829826533	0

ENSG0000	0	0.829826533	0
RN7SL146	1.100642416	6.638612267	0
RN7SL303	0	0	1.111172731
RPL23AP7	0	0	1.111172731
ETF1P2	0	4.149132667	1.111172731
PSMD12P1	4.402569665	11.61757147	7.77820912
ERICH6-A	12.10706658	35.68254093	14.44524551
EEF1GP4	0	0	1.111172731
RN7SL771	1.100642416	0	0
PCDHGC3	570.1327716	189.2004496	724.4846209
SMKR1	6.603854498	9.128091867	10.00055458
ENSG0000	25.31477557	17.4263572	3.333518194
PPP1R35-A	3.301927249	0	8.889381852
TRBV25O	0	0	4.444690926
CPHL1P	0	1.659653067	0
ENSG0000	2.201284833	4.149132667	1.111172731
COX19	92.45396297	48.95976547	28.89049102
RN7SL587	2.201284833	0.829826533	0
HNRNPA1	1.100642416	1.659653067	0
RPL21P11	1.100642416	0	0
GAPDHP3	1.100642416	0	0
B4GALT4-	0	0.829826533	0
RPL29P18	1.100642416	0.829826533	0
TCAM1P	1.100642416	0	0
MEAF6P1	2.201284833	0	0
GHRLOS	24.21413316	15.76670413	14.44524551
ENSG0000	25.31477557	16.59653067	1.111172731
ACAD11	41.82441182	16.59653067	58.89215477
ENSG0000	2.201284833	0	0
RN7SL481	0	1.659653067	0
ENSG0000	3.301927249	6.638612267	0
RPS2P5	214.6252712	367.6131543	250.0138646
PPIL3	366.5139246	533.578461	391.1328015
SOCAR	0	0.829826533	1.111172731
ENSG0000	2.201284833	0	0
RPL23AP7	15.40899383	5.808785734	2.222345463
RPL36AP4	1.100642416	0.829826533	0
RPL13P5	1.100642416	2.4894796	2.222345463
RPS4XP13	0	0.829826533	0
SEC62-AS	1.100642416	0.829826533	0
ENSG0000	83.64882364	44.8106328	213.3451644
LCE1F	0	0	1.111172731
RPL9P3	0	2.4894796	0
DRG1P2	1.100642416	13.27722453	1.111172731

RPL5P23	9.905781747	9.9579184	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	15.40899383	1.659653067	30.00166375
SAMMSOI	5.503212081	9.128091867	0
RPL5P15	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
LRRFIP1P	88.0513933	281.3111948	54.44746384
KRTAP13-	2.201284833	0	5.555863657
RPS12P27	2.201284833	2.4894796	0
RPL35AP1	0	0	1.111172731
ENSG0000	1.100642416	0	0
RPL17P38	2.201284833	1.659653067	1.111172731
FOXO3B	81.44753881	75.51421454	194.455228
REPIN1-A	0	0.829826533	0
RPS19P3	7.704496914	6.638612267	6.667036389
PHB1P8	0	0	2.222345463
RN7SL116	1.100642416	0	0
ENSG0000	0	0.829826533	0
RPL29P2	0	12.447398	1.111172731
SETP14	11.00642416	67.2159492	23.33462736
ENSG0000	0	1.659653067	0
CDKN2B-A	9.905781747	283.8006744	5.555863657
ENSG0000	0	2.4894796	0
TNFRSF13	11.00642416	1.659653067	6.667036389
RPL34P18	2.201284833	2.4894796	3.333518194
RPL36P11	0	0.829826533	0
UOX	0	4.9789592	1.111172731
ENSG0000	1.100642416	0	0
RPL21P12	8.80513933	12.447398	2.222345463
RN7SL69P	1.100642416	0	0
ENSG0000	1.100642416	0	0
RPL3P9	0	0	1.111172731
TM4SF1-A	1.100642416	0	1.111172731
RPL7AP58	0	0	2.222345463
L1TD1	13.207709	6.638612267	17.7787637
LINC0206	1.100642416	0	0
ENSG0000	4.402569665	1.659653067	0
AQP1	63.83726015	268.0339703	37.77987287
RN7SL258	3.301927249	3.319306133	1.111172731
ENSG0000	9.905781747	4.9789592	22.22345463
KCNAB1-A	0	0.829826533	0
RPL9P15	1.100642416	0	0
RPS6P25	5.503212081	5.808785734	6.667036389

RPL7P15	6.603854498	0.829826533	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
C1QTNF9	2.201284833	0	0
BTNL12P	0	0.829826533	5.555863657
KRT8P36	0	0.829826533	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
RPL21P51	1.100642416	0	0
MYL6P4	4.402569665	6.638612267	0
ISY1	17.61027866	35.68254093	6.667036389
ENSG0000	1.100642416	0	0
PNMA2	2.201284833	521.9608895	116.6731368
DNAJC8P2	39.62312699	41.49132667	10.00055458
KLF7P1	2.201284833	0	4.444690926
LINC0116	0	0.829826533	0
LINC0203(	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
LRRD1	19.81156349	4.149132667	17.7787637
RN7SL382	0	0.829826533	0
RPL21P60	9.905781747	16.59653067	2.222345463
ENSG0000	1.100642416	1.659653067	1.111172731
KRBOX1	1.100642416	0.829826533	2.222345463
RN7SL559	2.201284833	2.4894796	0
PCDHGC5	39.62312699	26.55444907	60.0033275
RN7SL288	0	0	1.111172731
C21orf91-(	0	1.659653067	0
ARHGEF2	102.3597447	36.51236747	113.3396186
ENSG0000	1.100642416	0	0
RPS10P4	0	0	1.111172731
RPL36AP2	0	6.638612267	2.222345463
NECTIN2P	1.100642416	0	0
UBA52P8	0	0	1.111172731
ENSG0000	0	3.319306133	0
CAP1P1	2.201284833	6.638612267	13.33407278
RN7SL23P	0	4.149132667	2.222345463
RPL21P4	2.201284833	0.829826533	2.222345463
RPS15P9	2.201284833	0	0
PEDS1	128.7751627	169.2846128	33.33518194
RN7SL328	2.201284833	4.9789592	0
PSMC2P1	12.10706658	34.8527144	18.88993643
RDH14	70.44111464	279.6515417	270.0149737
C1QTNF9-	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0

LINC0088(	4.402569665	0.829826533	0
RN7SL521	1.100642416	0	0
PTOV1P1	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
NDUFB2-/	12.10706658	11.61757147	40.00221833
G2E3P1	34.11991491	5.808785734	43.33573653
PLCXD2	23.11349074	41.49132667	2.222345463
RPL21P12	2.201284833	1.659653067	2.222345463
RPL15P2	4.402569665	22.4053164	10.00055458
ENSG0000	1.100642416	0	0
RPL8P3	2.201284833	13.27722453	2.222345463
MTCO2P6	0	0.829826533	0
RPL4P1	0	0.829826533	0
ENSG0000	0	1.659653067	0
RN7SL751	1.100642416	4.149132667	0
HOXA11-/	144.1841565	1.659653067	113.3396186
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	16.59653067	0
SEPTIN7P	27.51606041	24.06496947	2.222345463
GPR199P	0	0.829826533	0
TPM3P9	18.71092108	21.57548987	2.222345463
RPL29P24	6.603854498	4.9789592	12.22290005
RN7SL709	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	1.111172731
NSUN6	636.1713166	623.1997266	635.5908024
ENSG0000	0	0.829826533	0
RPL5P1	2.201284833	2.4894796	1.111172731
RN7SL110	0	0.829826533	0
RPL22P2	2.201284833	1.659653067	2.222345463
CYP51A1I	3.301927249	1.659653067	6.667036389
LINC0199/	1.100642416	0	0
RPL35AP1	0	0.829826533	1.111172731
RPL29P14	2.201284833	4.9789592	8.889381852
UGT1A9	4.402569665	0.829826533	5.555863657
HMGN1P8	4.402569665	0.829826533	0
KRTAP10-	1.100642416	2.4894796	4.444690926
YAE1	182.7066411	126.1336331	56.6698093
OR14A2	2.201284833	0.829826533	4.444690926
RPL22P19	3.301927249	0	0
LINC0203:	0	0.829826533	1.111172731
LINC0088:	0	3.319306133	0
ZNF722	1.100642416	0	0
ARHGAP3	1.100642416	0	0

RN7SL582	0	1.659653067	0
RPL32P32	1.100642416	0.829826533	0
ADAMTS9	7.704496914	1.659653067	0
LINC0087	0	4.149132667	0
ENSG0000	0	0.829826533	0
RPL31P46	8.80513933	1.659653067	1.111172731
TDGF1	3.301927249	2.4894796	0
RPL21P57	1.100642416	3.319306133	0
RN7SL165	0	1.659653067	0
ENSG0000	0	2.4894796	0
IQCJ-SCH	0	0.829826533	0
LINC0202	1.100642416	24.06496947	4.444690926
RN7SL809	1.100642416	2.4894796	1.111172731
CSP2	3.301927249	0	5.555863657
ENSG0000	0	0.829826533	0
C3orf85	0	1.659653067	0
RN7SL443	0	3.319306133	0
RN7SL801	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
KRTAP5-8	3.301927249	2.4894796	8.889381852
IGKV1D-1	4.402569665	1.659653067	16.66759097
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
CRCP	74.84368431	53.10889814	13.33407278
ENPP7P4	0	0.829826533	0
LINC0261	15.40899383	25.72462253	4.444690926
PPATP1	7.704496914	16.59653067	1.111172731
ACTG1P13	0	0.829826533	0
WWTR1-A	6.603854498	1.659653067	0
SUCLG2-I	18.71092108	17.4263572	1.111172731
WDR82P2	1.100642416	0	1.111172731
SETP6	1.100642416	1.659653067	0
FBXW10B	26.41541799	15.76670413	62.22567296
RPL36A	34.11991491	53.10889814	3.333518194
IGKV3-11	1.100642416	0	0
ENSG0000	29.71734524	29.04392867	53.33629111
ENSG0000	0	1.659653067	1.111172731
ENSG0000	3.301927249	1.659653067	3.333518194
SYNPR-AS	0	1.659653067	0
PDXP	14.30835141	15.76670413	21.1122819
RPL36AP4	9.905781747	1.659653067	0
LINC0119	0	27.3842756	0
LINC0199	0	0	1.111172731
RN7SL205	0	0.829826533	0

RN7SL344	1.100642416	3.319306133	0
CD302	52.83083598	57.2580308	6.667036389
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	0.829826533	3.333518194
RN7SL441	0	1.659653067	1.111172731
KRT8P13	3.301927249	0	0
RN7SL505	2.201284833	0	0
EEF1A1P2	2.201284833	1.659653067	0
TDGF1P6	0	0	2.222345463
FBRSL1P1	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
PLSCR5-A	1.100642416	0	0
RPL7P19	5.503212081	0.829826533	4.444690926
ENSG0000	0	0.829826533	0
ATP5MF	226.7323378	125.3038065	64.44801842
PTPRG-AS	5.503212081	136.921378	1.111172731
SSX2	13.207709	0	1.111172731
HSPA8P9	1.100642416	2.4894796	0
ARHGAP8	38.52248457	11.61757147	1.111172731
ENSG0000	6.603854498	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
PSMC1P1	8.80513933	19.9158368	22.22345463
RPS15AP2	2.201284833	0	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	0	2.222345463
CA15P1	1.100642416	3.319306133	0
RN7SL767	0	4.149132667	0
AGGF1P3	0	1.659653067	0
CBX5P1	0	5.808785734	2.222345463
U2SURPP1	3.301927249	0	0
ACTG1P2(	1.100642416	1.659653067	0
GUSBP2	0	0.829826533	0
ARPC4	62.73661773	86.30195947	60.0033275
RPL29P26	1.100642416	2.4894796	1.111172731
ZBTB20-A	1.100642416	0	0
CORT	1.100642416	2.4894796	0
PAQR9-AS	3.301927249	1.659653067	0
ATP5F1AI	0	1.659653067	0
RN7SL482	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
RPL21P46	0	4.149132667	12.22290005
RN7SL618	0	0	1.111172731

UBQLN4P	40.7237694	67.2159492	90.00499125
RN7SL316	0	0.829826533	0
RPL13P8	1.100642416	3.319306133	0
UGT1A1	6.603854498	4.9789592	84.44912759
RPS23P6	0	1.659653067	0
INMT	38.52248457	3.319306133	15.55641824
CADM2-A	1.100642416	0	0
UBA52P7	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
RPL19P11	0	0	1.111172731
KIAA1328	4.402569665	3.319306133	2.222345463
ENSG0000	0	2.4894796	0
ADAMTS9	44.02569665	4.9789592	0
ARPC1A	20.91220591	37.342194	20.00110917
GM2AP1	1.100642416	0	0
TMEFF1	0	4.149132667	0
RN7SL265	0	0.829826533	1.111172731
VWFP1	1.100642416	2.4894796	16.66759097
ENSG0000	15.40899383	0	0
SUMO1P1	0	0.829826533	0
FABP5P3	2.201284833	0	15.55641824
RPL7AP30	4.402569665	4.9789592	3.333518194
XACT	17.61027866	16.59653067	17.7787637
ENSG0000	0	0	1.111172731
IGKV1-9	1.100642416	0	0
RN7SL83P	1.100642416	0.829826533	0
CBLL1-AS	2.201284833	0.829826533	0
RPS26P45	0	0.829826533	0
EOLA1-DT	12.10706658	9.9579184	1.111172731
ENSG0000	3.301927249	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
RPL21P95	0	8.298265334	0
RN7SL390	1.100642416	0.829826533	0
MTND4P1	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
SPRR2A	0	0	4.444690926
RPS15AP3	0	0.829826533	0
RBBP4P7	1.100642416	0	0
RPL7P42	2.201284833	0	0
RPL21P54	1.100642416	1.659653067	0
ATP5PO	278.4625313	1060.51831	297.794292
ENSG0000	13.207709	0	0
PLEKHO2	111.164884	68.04577574	194.455228

C8orf58	16.50963624	9.9579184	20.00110917
ANOS2P	6.603854498	0	0
ENSG0000	2.201284833	0	0
RN7SL434	0	0.829826533	0
TOMM22F	0	18.25618373	0
PISD	247.6445437	141.0705107	268.903801
ENSG0000	1.100642416	3.319306133	0
CTDNEP1	6.603854498	14.10705107	16.66759097
RPS29P21	2.201284833	0	0
RPL14P3	20.91220591	18.25618373	2.222345463
WDR70P1	1.100642416	0.829826533	0
DENND6A	0	0.829826533	0
HOGA1	5.503212081	3.319306133	0
RN7SL517	2.201284833	0.829826533	0
PWP2	15.40899383	31.53340827	20.00110917
HNRNPA1	1.100642416	0.829826533	0
RPL29P23	0	0	1.111172731
LINC0300	8.80513933	3.319306133	5.555863657
RPL17P31	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	0
RN7SL655	2.201284833	0.829826533	0
RN7SL135	0	0.829826533	0
PI4KA	2622.830878	2027.266221	2580.143082
ELOCP19	1.100642416	2.4894796	3.333518194
RPL7AP2	0	0.829826533	0
WWTR1-I	4.402569665	1.659653067	1.111172731
PRR34-AS	28.61670282	28.21410213	6.667036389
ALG1L15F	0	1.659653067	8.889381852
ENSG0000	0	8.298265334	2.222345463
HYPK	149.6873686	82.1528268	83.33795486
ENSG0000	0	5.808785734	0
DNAJB8-A	0	0.829826533	0
RPS4XP19	2.201284833	0	0
RPS3AP49	0	0	5.555863657
ENSG0000	1.100642416	0	0
MARK2P6	0	0.829826533	0
RNF13P1	1.100642416	0	0
RPL7AP6	62.73661773	49.789592	54.44746384
IGKV1-33	29.71734524	0.829826533	0
SLC5A4-A	35.22055732	2.4894796	1.111172731
RPL7AP31	0	0.829826533	0
RPS20P33	3.301927249	3.319306133	0
RPL36AP4	0	0	3.333518194
FOXP1-IT1	23.11349074	22.4053164	2.222345463

ARPC1AP	0	6.638612267	1.111172731
LRRC78P	1.100642416	0.829826533	0
AMACR	3.301927249	13.27722453	1.111172731
TOPORSL	0	1.659653067	0
MTFP1	0	5.808785734	0
SNHG3	35.22055732	72.1949084	8.889381852
RPL5P13	1.100642416	1.659653067	0
RPL11P5	0	0.829826533	0
SERBP1P3	1.100642416	0	0
LASTR	0	0.829826533	0
ENSG0000	2.201284833	0	0
ABCF2P1	2.201284833	2.4894796	4.444690926
ENSG0000	8.80513933	14.10705107	3.333518194
RN7SL329	5.503212081	9.9579184	0
ARHGDIG	2.201284833	1.659653067	0
RN7SL127	3.301927249	4.9789592	0
RN7SL745	0	0.829826533	0
ENSG0000	0	0	1.111172731
CRYZL2P	25.31477557	9.128091867	5.555863657
RPS26P35	0	0.829826533	0
HOXB-AS	1.100642416	0	0
RN7SL97P	0	0.829826533	0
TCP10L	9.905781747	9.128091867	6.667036389
PSG2	1.100642416	4.149132667	18.88993643
SDHBP1	0	0	1.111172731
NECTIN3-	2.201284833	2.4894796	0
ATP5MC1	2.201284833	0.829826533	3.333518194
ARFGAP3	1579.421867	586.6873591	1105.616868
RN7SL20P	0	1.659653067	0
BGLAP	2.201284833	0.829826533	4.444690926
RN7SL57P	1.100642416	2.4894796	0
LINC0099(	6.603854498	9.128091867	0
C22orf39	49.52890873	67.2159492	51.11394565
RPL15P7	1.100642416	0	1.111172731
PEG10	47.3276239	6.638612267	4.444690926
AK2P2	0	2.4894796	7.77820912
RPS29P1	0	0.829826533	0
RPS18P5	8.80513933	11.61757147	2.222345463
ENSG0000	1.100642416	0	0
RPL21P48	4.402569665	0	0
ENSG0000	0	0.829826533	0
RN7SL683	1.100642416	9.128091867	0
INHCAP	0	2.4894796	4.444690926
BMS1P4	0	1.659653067	0

PRDX5P1	0	0.829826533	0
UGT1A8	12.10706658	0	17.7787637
EIF6	160.6937928	369.2728073	502.2500746
RN7SL741	0	2.4894796	0
RBMY1E	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	6.603854498	0	3.333518194
ENSG0000	2.201284833	0	0
DBIL5P2	1.100642416	0.829826533	0
RPL18P1	1.100642416	0	0
PCDHGC4	34.11991491	21.57548987	98.8943731
CFAP20D(	2.201284833	0.829826533	0
UPK3BP1	1.100642416	0	0
RN7SL789	0	0	1.111172731
LINC0204(	0	9.128091867	0
GTF2A1L	11.00642416	0	3.333518194
RPL7AP11	4.402569665	5.808785734	4.444690926
RBBP4P2	2.201284833	5.808785734	1.111172731
ENSG0000	3.301927249	0	6.667036389
EIF2AK1P	0	4.9789592	6.667036389
MRPL20	321.3875856	316.1639092	598.9221022
ENSG0000	0	0.829826533	0
ARPIN	69.34047223	85.47213294	11.11172731
LINC0120(	3.301927249	1.659653067	0
UGT1A10	1.100642416	4.9789592	0
LINC0096(	0	5.808785734	3.333518194
MAGEA5I	0	6.638612267	0
OR7E100P	3.301927249	4.9789592	6.667036389
IGKV2D-2	6.603854498	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
MRE11P1	2.201284833	19.08601027	0
ENSG0000	2.201284833	3.319306133	2.222345463
ENSG0000	0	1.659653067	0
SERPINB1	3.301927249	0.829826533	0
POU5F1P6	4.402569665	5.808785734	0
ENSG0000	1.100642416	4.149132667	0
RN7SL144	0	0.829826533	0
DCAF13P1	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
RPL21P11	2.201284833	2.4894796	0
HLA-DMB	3.301927249	0	0
TUBAP13	2.201284833	0	0
ENSG0000	0	0.829826533	0

IGKV1D-4	11.00642416	0.829826533	11.11172731
HYDINP1	0	0	1.111172731
ENSG0000	290.5695979	196.6688884	81.11560939
ENSG0000	3.301927249	0	3.333518194
MED28P8	1.100642416	0	0
MBL1P	0	1.659653067	1.111172731
RN7SL164	0	0.829826533	0
RPL17P47	4.402569665	2.4894796	0
GNG10	2.201284833	0.829826533	21.1122819
GSK3B-DT	6.603854498	10.78774493	2.222345463
ENSG0000	7.704496914	5.808785734	20.00110917
RPL21P12	1.100642416	0	0
LINC0097	2.201284833	0	0
RN7SL581	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
RN7SL317	0	0	1.111172731
PDE6B-AS	1.100642416	2.4894796	0
CNTF	1.100642416	5.808785734	0
RN7SL40P	0	0.829826533	1.111172731
RPL5P12	0	0	1.111172731
RN7SL516	0	0.829826533	0
ICE2P2	1.100642416	4.149132667	0
RPS27AP9	0	0.829826533	0
RN7SL362	0	1.659653067	0
CCDC169	56.13276323	0	2.222345463
RN7SL806	2.201284833	0	0
FAM86LP	0	0	5.555863657
RTL5	266.3554647	286.290154	171.1206006
ENSG0000	2.201284833	1.659653067	0
NMTRQ-T	0	0.829826533	0
LINC0088	9.905781747	4.9789592	4.444690926
IGKV1D-1	2.201284833	0	13.33407278
ZBTB20-A	0	2.4894796	0
RN7SL432	1.100642416	0	0
CD200R1L	0	25.72462253	1.111172731
ZNF702P	60.5353329	2.4894796	4.444690926
ENSG0000	1.100642416	0	0
PFN2-AS1	0	1.659653067	0
ENSG0000	3.301927249	30.70358173	1.111172731
GLYCTK-A	0	0.829826533	5.555863657
ENSG0000	1.100642416	0.829826533	0
AP5Z1	220.1284833	82.98265334	362.2423104

RPL26P31	0	30.70358173	0
SOX2-OT	14.30835141	17.4263572	1.111172731
MRPL42P6	1.100642416	0	0
RPS26P21	2.201284833	0.829826533	0
MTCO3P3	1.100642416	0	1.111172731
RPL21P13	2.201284833	0	0
KRT8P35	0	0.829826533	0
ALDOAP1	0	0	1.111172731
RPL23AP6	1.100642416	3.319306133	0
ZNF709	3.301927249	9.9579184	21.1122819
RN7SL749	1.100642416	2.4894796	0
RPL13AP1	0	0.829826533	0
RN7SL180	0	3.319306133	1.111172731
ENSG0000	11.00642416	3.319306133	1.111172731
STRC	15.40899383	3.319306133	13.33407278
RN7SL812	2.201284833	0.829826533	0
ENSG0000	4.402569665	1.659653067	0
RPL5P11	0	0	1.111172731
RN7SL449	0	3.319306133	1.111172731
RPL7P16	96.85653263	0.829826533	233.3462736
FLNC-AS1	1.100642416	0	20.00110917
AADACL2	0	0.829826533	0
RN7SL384	0	0.829826533	0
RPL7P49	2.201284833	0	0
RPL12P7	0	1.659653067	0
ERVW-1	3.301927249	0	7.77820912
ENSG0000	5.503212081	6.638612267	0
RPSAP3	1.100642416	0	1.111172731
FTH1P23	1.100642416	3.319306133	7.77820912
ENSG0000	3.301927249	0.829826533	0
RN7SL233	1.100642416	0	0
RPS15AP1	1.100642416	0	0
RPL21P99	0	3.319306133	0
RN7SL332	0	0.829826533	0
RN7SL239	2.201284833	0.829826533	0
ENSG0000	3.301927249	0.829826533	1.111172731
RN7SL16P	1.100642416	1.659653067	0
RN7SL266	0	0.829826533	0
PTMAP8	0	0	1.111172731
PRR23E2P	0	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
MTAPP1	1.100642416	0	0
RPL31P58	0	0.829826533	0

EIF4EBP3	17.61027866	5.808785734	15.55641824
ARHGEF2	22.01284833	7.4684388	3.333518194
RPL21P98	0	0.829826533	2.222345463
PRAMEF4	3.301927249	0	0
ENSG0000	0	0	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
RPS3P7	2.201284833	3.319306133	0
ENSG0000	5.503212081	6.638612267	0
RN7SL849	0	0.829826533	0
ENSG0000	1.100642416	0	0
RN7SL643	0	0.829826533	0
PSG11	12.10706658	3.319306133	17.7787637
PSG4	24.21413316	4.149132667	23.33462736
LINC0293	1.100642416	2.4894796	0
MRPL33	242.1413316	575.8996142	163.3423915
MLF1-DT	2.201284833	0	0
ENSG0000	13.207709	9.9579184	24.44580009
MICAL3	1732.411163	1053.879697	917.8286762
RFKP6	1.100642416	0	0
RPS10P28	0	1.659653067	0
RPSAP36	3.301927249	1.659653067	0
ENSG0000	12.10706658	36.51236747	23.33462736
RPL21P80	3.301927249	2.4894796	0
HNRNPA1	0	0.829826533	0
RPL6P10	15.40899383	15.76670413	35.55752741
TWF2-DT	3.301927249	3.319306133	0
PCDHAC2	0	0.829826533	0
GSTA9P	0	1.659653067	0
IGKV2-30	17.61027866	0	0
STON1	30.81798766	30.70358173	63.33684569
RN7SL558	1.100642416	2.4894796	0
IGKV2D-2	7.704496914	1.659653067	4.444690926
RN7SL614	0	0	2.222345463
RN7SL571	0	0.829826533	0
ENSG0000	1.100642416	0	0
RPL36AP1	1.100642416	1.659653067	1.111172731
VSIG8	0	0.829826533	0
AGAP13P	156.2912231	34.8527144	107.7837549
IGKV1-12	8.80513933	0	0
CFAP20D(	1.100642416	0	0
RPL31P61	3.301927249	0	0
POM121L(	0	0.829826533	0
RPS12P7	0	4.149132667	0

GUCY2GP	2.201284833	0	0
STMP1	351.1049308	419.0623993	302.238983
FGF14-IT1	1.100642416	0.829826533	0
LINC0199	0	1.659653067	0
PTPRVP	2.201284833	0.829826533	0
KCTD7	110.0642416	57.2580308	40.00221833
ENSG0000	0	0	2.222345463
LINC0204	0	1.659653067	0
ENSG0000	0	1.659653067	0
RPS27P28	0	0.829826533	0
EFNA4	59.43469048	18.25618373	128.8960368
MCCC1-A	0	0	23.33462736
RN7SL173	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
RN7SL141	2.201284833	2.4894796	0
RPL15P12	0	0.829826533	0
ENSG0000	14.30835141	6.638612267	0
TICAM2	2.201284833	3.319306133	0
RPL23AP4	1.100642416	0	0
OR7E29P	0	0	1.111172731
RPL5P30	2.201284833	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	0.829826533	0
C4orf48	4.402569665	19.9158368	115.5619641
INGX	1.100642416	0	0
RPL7P51	1.100642416	0	0
NAA80	136.4796596	36.51236747	67.78153662
AMY2A	22.01284833	4.149132667	16.66759097
ENSG0000	1.100642416	0.829826533	0
KRTAP10-	0	2.4894796	0
RPS23P1	1.100642416	0	2.222345463
ENSG0000	0	0.829826533	0
DNAJB6P7	5.503212081	17.4263572	2.222345463
RPL12P40	3.301927249	0.829826533	0
RPL13AP2	0	1.659653067	2.222345463
RPL5P33	0	4.149132667	0
EVA1CP3	0	0	4.444690926
RN7SL19P	1.100642416	0	0
RPS26P28	0	6.638612267	0
RN7SL172	0	0.829826533	1.111172731
HNRNPKP	50.62955115	94.6002248	47.78042745
CCZ1P1	5.503212081	4.149132667	1.111172731
RN7SL364	1.100642416	0	0
UPK3B	3.301927249	0	0

RPL21P11	1.100642416	0.829826533	0
PRICKLE1	0	0	2.222345463
RPL17P22	0	0	1.111172731
PLSCR4P1	1.100642416	0	0
RPS2P44	3.301927249	0	0
ENSG0000	2.201284833	0.829826533	0
SMIM34	0	0.829826533	0
LINC0088(	0	2.4894796	0
RN7SL542	1.100642416	0	0
EZRP1	0	0	6.667036389
OR13C7	1.100642416	0	1.111172731
RN7SL526	0	0.829826533	0
IL10RB	25.31477557	39.8316736	3.333518194
ENSG0000	0	0.829826533	0
RN7SL834	2.201284833	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ZNF487	47.3276239	48.95976547	34.44635467
DNAAF10	13.207709	14.9368776	5.555863657
OR7E66P	0	0	2.222345463
NME2	7.704496914	3.319306133	0
RPL37P23	2.201284833	1.659653067	2.222345463
ENSG0000	2.201284833	0.829826533	3.333518194
DUBR	33.01927249	13.27722453	1.111172731
RN7SL638	1.100642416	0	0
PLA2G4B	3.301927249	3.319306133	0
LEFTY1	0	2.4894796	6.667036389
CFAP57	75.94432672	67.2159492	335.5741649
CACNA2D	1.100642416	0	0
NPIPB5	551.4218506	229.0321232	472.2484109
RPL21P12	0	0.829826533	3.333518194
RN7SL393	1.100642416	2.4894796	0
TTC4	9.905781747	10.78774493	2.222345463
RPL29P3	0	0.829826533	0
RPLP0P2	6.603854498	4.149132667	7.77820912
EEF1A1P1	1.100642416	0.829826533	2.222345463
TMEM35E	1.100642416	1.659653067	0
ST13P15	7.704496914	3.319306133	1.111172731
ENSG0000	2.201284833	0	0
HOTTIP	12.10706658	0.829826533	1.111172731
RN7SL65P	0	2.4894796	0
ENSG0000	0	0	2.222345463
JMJD7	11.00642416	0	0
OR7E89P	1.100642416	0	0
LINC0204	1.100642416	0	0

ENSG0000	1.100642416	0	0
APOBEC3	16.50963624	1.659653067	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	1.111172731
RN7SL832	6.603854498	13.27722453	0
RPL12P6	0	0.829826533	0
ENSG0000	6.603854498	3.319306133	6.667036389
RPL15P17	0	0	1.111172731
WDR86-AS	6.603854498	0	6.667036389
PSMC1P7	1.100642416	0	3.333518194
RN7SL30P	1.100642416	0	0
CFAP44-A	0	1.659653067	0
RN7SL67P	0	11.61757147	0
RPL5P17	1.100642416	0.829826533	0
RN7SL464	1.100642416	0	0
HMGB1P3	1.100642416	0	0
OR2A7	0	0	1.111172731
ELFN2.1	2.201284833	0	3.333518194
TUBA4B	3.301927249	4.9789592	28.89049102
RN7SL430	0	0.829826533	0
RPL5P14	2.201284833	0	0
THAP12P2	4.402569665	0.829826533	2.222345463
EIF4BP8	0	0	3.333518194
TIPARP-A	0	8.298265334	1.111172731
MRPS6	45.12633907	346.8674909	93.33850944
ENSG0000	2.201284833	0.829826533	0
ZNF512	195.9143501	202.4776741	93.33850944
RN7SL308	0	0.829826533	0
RN7SL743	0	3.319306133	0
GSTA1	39.62312699	71.36508187	187.7881916
ENSG0000	3.301927249	5.808785734	0
RPL23AP6	1.100642416	0	0
PPIEL	0	0.829826533	2.222345463
VTI1BP1	1.100642416	0.829826533	6.667036389
RTL9	5.503212081	24.06496947	8.889381852
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	0	0
ENO1P3	1.100642416	2.4894796	1.111172731
ACY1	2.201284833	0	0
RPSAP39	0	0	2.222345463
RN7SL143	0	0.829826533	0
NFS1	471.0749542	337.7393991	427.8015016
B3GAT3P1	0	0	2.222345463
RPL35P6	0	0.829826533	0

RPL21P53	0	3.319306133	5.555863657
KRTAP19-	0	0.829826533	8.889381852
UBE2H-DT	0	0	1.111172731
DDOST	1516.68525	4694.328699	3726.873341
FAM20BP	1.100642416	0	0
IL12A-AS1	8.80513933	0.829826533	0
LINC0101	11.00642416	16.59653067	0
RN7SL735	2.201284833	1.659653067	3.333518194
TMEM199	16.50963624	43.15097974	17.7787637
RPL5P24	2.201284833	0	1.111172731
ENSG0000	132.07709	66.38612267	57.78098203
LCE3C	0	0.829826533	0
RPS2P41	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
GSTA2	2.201284833	26.55444907	106.6725822
RPS4XP6	2.201284833	0	0
ENSG0000	0	1.659653067	0
RN7SL833	0	0.829826533	1.111172731
ENSG0000	2.201284833	0.829826533	0
RPL23AP4	2.201284833	0	0
RPS23P3	0	0.829826533	0
HMGN1P1	0	0.829826533	0
IGKV2-28	0	1.659653067	0
PDCL3P4	61.63597531	18.25618373	65.55919115
UGT1A7	7.704496914	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
LINC0132	1.100642416	2.4894796	3.333518194
RPSAP51	1.100642416	0.829826533	0
RN7SL397	1.100642416	0	0
ATP6V0CI	0	0	3.333518194
ENSG0000	3.301927249	4.149132667	11.11172731
WWP1P1	23.11349074	26.55444907	24.44580009
EIF4E2P2	0	0.829826533	0
CALHM6-	0	0.829826533	0
FLNB-AS1	2.201284833	7.4684388	0
P2RY11	12.10706658	33.19306133	6.667036389
PBX2P1	16.50963624	9.128091867	11.11172731
PPIAP71	2.201284833	0	1.111172731
PELP1-DT	3.301927249	5.808785734	3.333518194
TMEM141	18.71092108	10.78774493	44.44690926
ENSG0000	1.100642416	0	0
PPIAP15	0	0	1.111172731
EIF4EP3	1.100642416	0	0
RN7SL81P	6.603854498	0.829826533	0

TMEM225	0	1.659653067	1.111172731
LRRC77P	0	0.829826533	0
RN7SL698	0	2.4894796	0
GMCL2	5.503212081	1.659653067	0
IFITM10	4.402569665	3.319306133	12.22290005
ENSG0000	30.81798766	26.55444907	7.77820912
LINC0199	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
RN7SL130	1.100642416	0	0
ENSG0000	1.100642416	0	0
SIAH2-AS	5.503212081	1.659653067	0
DBNDD2	16.50963624	8.298265334	20.00110917
OR9N1P	0	2.4894796	0
GATA2-AS	30.81798766	2.4894796	1.111172731
DUXAP10	12.10706658	9.128091867	2.222345463
RN7SL395	0	0.829826533	0
RN7SL762	1.100642416	0	0
ENSG0000	73.74304189	92.1107452	50.00277291
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
C9orf85P2	2.201284833	3.319306133	4.444690926
RN7SL398	4.402569665	3.319306133	0
ENSG0000	1.100642416	0	0
RPL7P23	38.52248457	36.51236747	15.55641824
RN7SL636	0	0.829826533	0
RPS2P45	0	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
SDHDP3	0	0	4.444690926
FAM3D-A	0	0.829826533	1.111172731
RN7SL359	1.100642416	0.829826533	0
RBMY1D	2.201284833	0	0
RPL36AP3	211.3233439	88.79143907	22.22345463
ETV5	193.7130653	128.6231127	170.0094279
KRTAP5-7	4.402569665	21.57548987	51.11394565
CFHR1	6.603854498	10.78774493	3.333518194
IGKV3-15	27.51606041	0	0
RBM12	4171.434758	2889.455989	1893.438334
ENSG0000	0	0.829826533	0
TM4SF18-	1.100642416	0	0
TPTE2P3	2.201284833	0	0
UGT1A4	13.207709	0	30.00166375
ERVFRD-1	12.10706658	0.829826533	5.555863657
OR2A1-AS	0	0.829826533	0

ENSG0000	45.12633907	4.9789592	24.44580009
LILRA6	0	1.659653067	0
SCARF2	121.0706658	39.8316736	96.67202764
RWDD4P1	6.603854498	17.4263572	5.555863657
ENSG0000	2.201284833	1.659653067	0
SLC9A9-A	0	0.829826533	4.444690926
RN7SL623	0	5.808785734	0
HDAC11-A	0	1.659653067	0
APOBEC3	93.55460539	72.1949084	52.22511838
EOGT-DT	1.100642416	3.319306133	7.77820912
RN7SL125	0	0	1.111172731
RPL21P12	1.100642416	0	0
RN7SL380	0	2.4894796	0
LINC0121	1.100642416	1.659653067	0
KCNK15-A	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	0
PRICKLE2	0	0.829826533	0
POLR2DP2	1.100642416	0	0
RPL30P11	0	2.4894796	0
LINC0139	3.301927249	4.149132667	1.111172731
RPL21P12	1.100642416	0	1.111172731
RPL12P33	0	0	2.222345463
RAD21L1	11.00642416	5.808785734	7.77820912
PSPC1P2	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	3.333518194
OR2AE1	14.30835141	1.659653067	0
KRTAP20-	0	0.829826533	7.77820912
MIATNB	22.01284833	10.78774493	5.555863657
TPTEP2	20.91220591	9.128091867	8.889381852
ENSG0000	1.100642416	0.829826533	0
RN7SL396	4.402569665	3.319306133	0
LINC0208	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
SNRPCP3	0	0	1.111172731
RN7SL280	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	7.77820912
MTHFD2P	1.100642416	0.829826533	0
FCGR2C	121.0706658	12.447398	115.5619641
UBE2V1	86.95075089	69.7054288	105.5614095
RPL10AP1	1.100642416	0.829826533	0
PTCHD4	44.02569665	24.894796	22.22345463

CD46P1	2.201284833	0	0
RPL23P10	0	2.4894796	0
RN7SL47P	0	1.659653067	0
RPL17P7	220.1284833	234.0110824	254.4585555
NT5C3AP2	1.100642416	0	0
RPSAP29	1.100642416	0	0
ASLP1	2.201284833	3.319306133	4.444690926
C4A	83.64882364	0	77.7820912
ENSG0000	1.100642416	1.659653067	0
HBB	5.503212081	4915.062557	82.22678213
RN7SL153	0	0.829826533	0
CRYBB2	7.704496914	0	10.00055458
N4BP2L2	3639.824471	1939.304608	2333.462736
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	1.111172731
ENSG0000	1.100642416	0.829826533	0
GABPB1-A	59.43469048	148.5389495	17.7787637
IFT122P2	2.201284833	2.4894796	3.333518194
ENSG0000	0	0.829826533	0
LIFR-AS1	8.80513933	58.08785734	3.333518194
ENSG0000	27.51606041	6.638612267	11.11172731
LINC0084	29.71734524	50.61941854	5.555863657
IGFBP7-AS	1.100642416	3.319306133	0
MIR3150B	3.301927249	1.659653067	0
A2M-AS1	18.71092108	23.23514293	18.88993643
SMARCA5	1.100642416	0	3.333518194
MALINC1	2.201284833	2.4894796	1.111172731
RNF139-D	9.905781747	9.9579184	0
ENSG0000	2.201284833	3.319306133	2.222345463
LINC0086	9.905781747	42.3211532	0
EEF1A1P4	3.301927249	0	2.222345463
GALNT7-I	31.91863007	24.894796	16.66759097
USP2-AS1	5.503212081	4.149132667	8.889381852
ENSG0000	5.503212081	4.9789592	11.11172731
SAP30L-A	11.00642416	14.10705107	4.444690926
ASAH1-AS	2.201284833	5.808785734	0
CYP2U1-A	14.30835141	4.9789592	2.222345463
BMAL2-A	1.100642416	0.829826533	0
MRNIP-DT	0	0.829826533	0
H2AZ1-DT	6.603854498	0	0
DEPTOR-A	2.201284833	0.829826533	2.222345463
CXXC4-AS	1.100642416	0.829826533	6.667036389
ENSG0000	1.100642416	0	0
LINC0244	3.301927249	0.829826533	1.111172731

ENSG0000	1.100642416	0.829826533	0
MSANTD2	14.30835141	3.319306133	5.555863657
LINC0270	0	1.659653067	0
LINC0046	1.100642416	0.829826533	0
NEAT1	4616.094294	10311.4245	750.0415937
RORA-AS	2.201284833	1.659653067	0
LNCRNA-	8.80513933	4.9789592	1.111172731
SCAMP1-A	5.503212081	9.9579184	0
FAM111A-	14.30835141	13.27722453	6.667036389
BDNF-AS	25.31477557	30.70358173	45.55808199
DACT3-AS	1.100642416	1.659653067	0
DDX11-AS	3.301927249	35.68254093	0
KLRK1-AS	4.402569665	4.149132667	4.444690926
LINC0221	0	11.61757147	0
ENSG0000	1.100642416	0	0
ZNF585B	573.4346989	1012.388371	1234.512905
FRG1-DT	0	1.659653067	0
ENSG0000	0	1.659653067	0
CRNDE	110.0642416	345.2078379	268.903801
NADK2-A	0	2.4894796	0
LINC0222	1.100642416	0	0
DRAIC	83.64882364	21.57548987	10.00055458
ENSG0000	0	0.829826533	0
LINC0220	1.100642416	0	0
MIR4300H	2.201284833	0	0
CEBPA	116.6680961	39.8316736	97.78320037
RAD51-AS	31.91863007	33.19306133	5.555863657
GS1-24F4.	0	1.659653067	0
MEF2C-AS	3.301927249	1.659653067	0
LINC0068	1.100642416	0.829826533	0
NSMCE1-I	4.402569665	8.298265334	0
BTG1-DT	5.503212081	5.808785734	0
SNHG6	39.62312699	156.8372148	2.222345463
SLC12A2-I	74.84368431	29.8737552	8.889381852
RPL30-AS	5.503212081	2.4894796	5.555863657
MINDY2-I	3.301927249	1.659653067	0
LINC0151	0	1.659653067	0
ALDH1L1-	2.201284833	0.829826533	0
RAB30-DT	45.12633907	209.1162864	23.33462736
NUDT16L	14.30835141	10.78774493	0
MCPH1-D	0	0.829826533	0
ENSG0000	33.01927249	11.61757147	24.44580009
LINC0109	0	3.319306133	0
LINC0090	0	0.829826533	1.111172731

RRS1-DT	13.207709	5.808785734	3.333518194
KCTD21-A	6.603854498	21.57548987	27.77931829
ENSG0000	12.10706658	1.659653067	14.44524551
P4HA3-AS	2.201284833	0	0
RETREG1·	5.503212081	0	3.333518194
LINC0155(	4.402569665	0	2.222345463
ENSG0000	2.201284833	0	1.111172731
CASC8	0	0	1.111172731
ENSG0000	1.100642416	0	0
UBR5-DT	7.704496914	14.10705107	2.222345463
SBF2-AS1	25.31477557	68.87560227	7.77820912
TTBK2-AS	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
FAM13B-A	0	2.4894796	0
PRR7-AS1	1.100642416	7.4684388	0
EXTL3-AS	14.30835141	9.128091867	0
ZBED9-AS	0	0.829826533	0
LINC02458	0	2.4894796	0
LACTB2-A	1.100642416	0.829826533	0
PPM1K-DT	1.100642416	0	1.111172731
GNAO1-DT	3.301927249	5.808785734	0
LINC00968	2.201284833	0.829826533	0
KLC1-AS1	0	0.829826533	0
ENSG0000	1.100642416	12.447398	4.444690926
FZD4-DT	3.301927249	1.659653067	1.111172731
LINC0248	2.201284833	1.659653067	1.111172731
SLCO5A1-	5.503212081	1.659653067	0
SMARCAI	0	0.829826533	0
LINC02288	1.100642416	0.829826533	1.111172731
UBE2D3-A	1.100642416	0.829826533	0
TNFRSF1(	1.100642416	3.319306133	0
ENSG0000	193.7130653	120.3248473	91.11616398
PICART1	0	0.829826533	0
CIBAR1-D	2.201284833	2.4894796	0
RASSF8-A	25.31477557	38.17202053	8.889381852
H2AJ	2338.865135	256.4163988	1977.887462
MGC1627	2.201284833	2.4894796	0
PLA2G4E-	1.100642416	0	0
RGMB-AS	4.402569665	0	0
COL25A1-	2.201284833	0	0
DYNC1LI2	2.201284833	2.4894796	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0	0

STARD4-A	2.201284833	2.4894796	1.111172731
GPR176-D	1.100642416	1.659653067	0
LINC0246(	0	1.659653067	0
DNM1P35	2.201284833	13.27722453	0
LINC0092(	1.100642416	0.829826533	0
UBAP1L	88.0513933	5.808785734	34.44635467
BRPF3-AS	2.201284833	4.9789592	0
SOCS2-AS	23.11349074	9.128091867	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	1.100642416	0	0
PGAM5	93.55460539	287.1199805	188.8993643
BAALC-A	9.905781747	43.15097974	4.444690926
SNHG10	19.81156349	45.64045934	5.555863657
MIR210HC	0	3.319306133	0
ENSG0000	6.603854498	13.27722453	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	8.298265334	0
ANKRD42	40.7237694	53.10889814	11.11172731
CSTF3-DT	0	5.808785734	0
LINC0125	6.603854498	0	1.111172731
ENSG0000	0	0	1.111172731
FBXO38-D	11.00642416	13.27722453	5.555863657
LINC0149	0	1.659653067	1.111172731
ENSG0000	2.201284833	2.4894796	0
ZBED5-AS	11.00642416	14.9368776	2.222345463
PRKCH-AS	4.402569665	9.128091867	1.111172731
ZCCHC3	143.0835141	263.0550111	291.1272556
LY6E-DT	1.100642416	0.829826533	0
ENSG0000	4.402569665	2.4894796	0
NUP107-D	2.201284833	8.298265334	0
TMED2-D	15.40899383	19.08601027	3.333518194
PLUT	0	0	2.222345463
DNAJC3-D	5.503212081	19.08601027	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	2.4894796	1.111172731
GPRC5D-A	24.21413316	27.3842756	18.88993643
MIR4458H	9.905781747	1.659653067	2.222345463
OIP5-AS1	158.4925079	253.0970927	30.00166375
SDCBPP2	4.402569665	0	0
CKMT2-A	25.31477557	29.04392867	0
MISFA	42.92505424	18.25618373	38.8910456
TWF2	53.9314784	39.00184707	105.5614095
CPEB2-DT	0	0	1.111172731

MARS2	77.04496914	160.9863475	183.3435007
MTND4P1	9.905781747	63.89664307	0
LRP4-AS1	0	5.808785734	11.11172731
ENSG0000	4.402569665	7.4684388	0
FABP6-AS	2.201284833	1.659653067	7.77820912
STX18-AS	31.91863007	35.68254093	11.11172731
ARHGAP1	0	1.659653067	0
KCTD13-I	1.100642416	9.9579184	3.333518194
USP51	156.2912231	512.8327976	138.8965914
TUBAP14	0	1.659653067	8.889381852
PCED1B-A	11.00642416	2.4894796	1.111172731
SNCA-AS1	1.100642416	0	0
MOCS2-D	6.603854498	4.9789592	3.333518194
NR2F2-AS	26.41541799	6.638612267	1.111172731
ENSG0000	0	0	1.111172731
TMEM161	125.4732355	170.1144393	26.66814555
ENSG0000	4.402569665	0.829826533	17.7787637
DGAT2-D	1.100642416	0	0
FAM174A-	1.100642416	11.61757147	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	13.207709	36.51236747	4.444690926
SEC24B-A	7.704496914	1.659653067	1.111172731
ENSG0000	0	0.829826533	2.222345463
LINC0092(	2.201284833	4.149132667	0
NRAV	28.61670282	78.83352067	7.77820912
ENSG0000	2.201284833	4.149132667	8.889381852
FAM13A-A	75.94432672	24.06496947	22.22345463
ARHGAP4	0	0.829826533	2.222345463
UBA6-DT	74.84368431	146.0494699	20.00110917
SYBU-AS1	1.100642416	1.659653067	0
DPH6-DT	3.301927249	3.319306133	7.77820912
NNT-AS1	13.207709	103.7283167	2.222345463
BCKDHA	14.30835141	14.10705107	3.333518194
INSL3	1.100642416	0	3.333518194
ENSG0000	0	1.659653067	0
MARCOL	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
PTPN11P5	0	0.829826533	2.222345463
LINC0101	0	1.659653067	0
LINC0119	5.503212081	27.3842756	0
ENSG0000	8.80513933	10.78774493	1.111172731
ADH1C	327.9914401	5.808785734	55.55863657
LINC0215(	1.100642416	4.149132667	0

HSPA8P11	0	0.829826533	5.555863657
ENSG0000	0	1.659653067	0
LINC0226	0	2.4894796	0
ENSG0000	0	1.659653067	0
PES1P1	0	2.4894796	0
LINC0223	2.201284833	0	0
ENSG0000	1.100642416	7.4684388	0
WDR45P1	0	0.829826533	6.667036389
KCTD9P5	0	0.829826533	1.111172731
STX18-IT1	0	1.659653067	0
SLIT3-AS1	0	3.319306133	0
LINC0251	0	0.829826533	1.111172731
SLIT2-IT1	1.100642416	13.27722453	0
ENSG0000	0	1.659653067	0
KRT8P4	0	0	1.111172731
LINC0243	0	9.128091867	0
ENSG0000	0	7.4684388	0
ENSG0000	2.201284833	0.829826533	0
LINC0201	0	0	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
OCIAD1-A	9.905781747	0	0
FLJ12825	0	0.829826533	0
ENSG0000	0	4.149132667	0
TRIM52-A	9.905781747	34.02288787	1.111172731
SUMO2P1	2.201284833	3.319306133	3.333518194
MTCYBP4	2.201284833	0.829826533	0
CCNL2P1	16.50963624	3.319306133	2.222345463
TNXA	2.201284833	0	4.444690926
DDX43P1	0	0	1.111172731
LINC0061	0	3.319306133	0
MEF2C-AS	11.00642416	6.638612267	1.111172731
LUCAT1	6.603854498	14.10705107	2.222345463
NOL8P1	1.100642416	14.10705107	0
APELA	24.21413316	4.149132667	5.555863657
TUB-AS1	1.100642416	0	0
CDK11B	591.0449776	481.2993894	740.0410391
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
LINC0050	0	0	1.111172731
POU5F1P7	0	0.829826533	0
ENSG0000	2.201284833	7.4684388	2.222345463
LINC0243	0	0.829826533	0
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
PCDHAC1	0	0.829826533	0
LINC0206	2.201284833	0.829826533	0
FOSL1P1	9.905781747	1.659653067	18.88993643
LINC0049	0	0.829826533	0
ST13P12	1.100642416	0	5.555863657
NACAP6	0	3.319306133	0
PRR5-ARI	20.91220591	0	1.111172731
LINC0246	2.201284833	0	0
ENSG0000	0	20.74566333	0
GASK1B-A	46.22698148	1.659653067	22.22345463
RPL23AP9	0	0.829826533	0
LETR1	2.201284833	3.319306133	0
HNRNPA1	0	0.829826533	0
SEMA6A-A	12.10706658	5.808785734	21.1122819
ENSG0000	0	0.829826533	0
PCDHGB8	6.603854498	10.78774493	18.88993643
LINC0222	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0211	0	0.829826533	0
FGF10-AS	1.100642416	0	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
LINC0196	1.100642416	0	0
BACH1-IT	6.603854498	4.149132667	0
ENSG0000	1.100642416	0	0
POU5F2	42.92505424	38.17202053	17.7787637
PCP4L1	7.704496914	2.4894796	8.889381852
ABHD14A	88.0513933	80.49317374	37.77987287
CHD1-DT	13.207709	9.9579184	2.222345463
ENSG0000	0	1.659653067	0
ZFAT-AS1	0	0	8.889381852
ENSG0000	0	0.829826533	1.111172731
C4orf46P2	0	0.829826533	0
TUBAP10	2.201284833	0	1.111172731
OR5H4P	1.100642416	0	0
SRP14-DT	11.00642416	12.447398	1.111172731
LINC0226	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	12.447398	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	15.40899383	4.149132667	10.00055458

SBF1P1	1.100642416	3.319306133	4.444690926
ENSG0000	0	0.829826533	0
MTATP6P	1567.314801	4375.67531	47.78042745
LINC0205	2.201284833	0	0
ENSG0000	0	2.4894796	0
BCL2L12P	0	2.4894796	0
NDUFA5P	0	1.659653067	0
PPP1R3B-I	1.100642416	0.829826533	0
LINC0211	0	0.829826533	0
ENSG0000	1.100642416	13.27722453	0
ENSG0000	0	0.829826533	0
ANP32C	14.30835141	8.298265334	18.88993643
ENSG0000	0	1.659653067	0
OR52H2P	3.301927249	6.638612267	8.889381852
C5orf34-A	0	3.319306133	2.222345463
LINC0133	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
KRT8P48	2.201284833	0	0
ENSG0000	7.704496914	37.342194	22.22345463
ENSG0000	0	0.829826533	0
NPM1P21	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	7.77820912
GDNF-AS1	14.30835141	2.4894796	0
ENSG0000	0	0	2.222345463
GLDCP1	2.201284833	0.829826533	4.444690926
STIMATE-	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
FLJ42969	0	4.9789592	0
ENSG0000	1.100642416	0.829826533	2.222345463
HSPA8P4	0	0	2.222345463
ANKRD49	1.100642416	0	0
ENSG0000	4.402569665	0	1.111172731
GAPDHP4	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
HMGA1P2	0	1.659653067	2.222345463
RBM14-RI	1.100642416	5.808785734	0
ENSG0000	2.201284833	1.659653067	0
ALG1L9P	12.10706658	19.08601027	12.22290005
LINC0133	0	1.659653067	0
ENSG0000	0	1.659653067	0

LINC0210	6.603854498	3.319306133	1.111172731
ARHGAP2	1.100642416	3.319306133	0
LINC0248	0	164.3056536	0
HAS2-AS1	4.402569665	0.829826533	0
LINC0210	1.100642416	0	0
TOX4P1	4.402569665	0.829826533	26.66814555
LINC0108	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	3.333518194
LINC0214	1.100642416	0	0
THUMPD3	2.201284833	0	0
CCDC153	0	10.78774493	44.44690926
C4orf54	23.11349074	1240.590667	70.00388208
ZNF652-A	0	1.659653067	0
ENSG0000	0	1.659653067	0
RFPL4AP5	0	22.4053164	0
NPHP3-AS	6.603854498	1.659653067	0
ENSG0000	0	0.829826533	0
LINC0194	0	0.829826533	0
MTCO1P3	0	2.4894796	0
EGFLAM-	0	0.829826533	2.222345463
ENSG0000	50.62955115	13.27722453	0
R3HDM2P	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0242	0	12.447398	0
NMNAT1P	0	0.829826533	0
ACTN3	11.00642416	10.78774493	14.44524551
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0211	0	0.829826533	0
ENSG0000	1.100642416	0	0
MTCYBP3	0	0.829826533	0
SMIM31	7.704496914	0	2.222345463
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0	1.111172731
ARL4AP2	7.704496914	3.319306133	3.333518194
PSMC1P4	1.100642416	0	0
ENSG0000	2.201284833	9.128091867	0
HIGD1AP1	0	3.319306133	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	2.4894796	0

ENSG0000	4.402569665	14.9368776	1.111172731
ENSG0000	4.402569665	3.319306133	1.111172731
ENSG0000	1.100642416	1.659653067	21.1122819
ENSG0000	1.100642416	0	0
C8orf34-AS	91.35332055	0.829826533	21.1122819
LINC0109	2.201284833	0	4.444690926
LINC0243	0	0.829826533	0
PMPCAP1	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
ZNF807P	8.80513933	9.9579184	13.33407278
ENSG0000	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
RPL7AP29	0	0.829826533	0
LINC0206	0	0.829826533	0
FLJ46284	14.30835141	20.74566333	4.444690926
LINC0157	0	8.298265334	0
ENSG0000	2.201284833	0	0
USP46-DT	3.301927249	6.638612267	0
LINC0251	1.100642416	0	0
SERBP1P6	13.207709	24.894796	2.222345463
SEPTIN7P	1.100642416	0	0
UGT2A3P	0	0.829826533	0
HHIP-AS1	1.100642416	21.57548987	1.111172731
PELO-AS1	0	0.829826533	0
ENSG0000	0	0	1.111172731
FMN1	1707.096388	747.6737066	418.9121198
HMGB1P2	0	0.829826533	0
ENSG0000	0	0	1.111172731
NUP210P3	0	1.659653067	0
ENSG0000	1.100642416	0	0
ATP5MF-P	4.402569665	1.659653067	0
MTND5P1	1.100642416	0.829826533	0
PDCD6-DT	1.100642416	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
MTCYBP4	1.100642416	0.829826533	0
COPB2-DT	38.52248457	63.06681654	27.77931829
USP17L22	1.100642416	1.659653067	16.66759097
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
LINC0133	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0

ZSWIM5P1	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
BCLAF1P1	8.80513933	7.4684388	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
KRT8P46	6.603854498	4.9789592	43.33573653
ENSG0000	0	1.659653067	0
SPCS3-AS	7.704496914	15.76670413	15.55641824
LINC0275	1.100642416	0	0
ENSG0000	15.40899383	4.149132667	1.111172731
EFL1P2	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	1.659653067	15.55641824
ENSG0000	0	6.638612267	0
ENSG0000	1.100642416	0	0
HMGN2P4	0	0	1.111172731
SNORA58	0	4.149132667	3.333518194
ENSG0000	0	0.829826533	0
CTNNA1P	0	1.659653067	3.333518194
SUMO2P6	0	4.149132667	10.00055458
ENSG0000	0	0	1.111172731
FAM151B-	20.91220591	39.8316736	6.667036389
ENSG0000	0	3.319306133	0
MAST4-IT	3.301927249	2.4894796	0
PCNAP1	0	0.829826533	0
LINC0103	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
NDUFB2P	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
EPIST	1.100642416	3.319306133	0
TNPO1-DT	1.100642416	0	0
ENSG0000	0	4.149132667	0
PPIAP77	0	4.149132667	0
ENSG0000	0	0.829826533	0
LINC0236	3.301927249	3.319306133	0
USP17L17	1.100642416	0	1.111172731
GPM6A-D	0	0	1.111172731
ENSG0000	2.201284833	0	0
HAUS5	116.6680961	232.3514293	191.1217098
IRX4-AS1	0	0.829826533	0
MTND6P4	7.704496914	4.149132667	1.111172731
SLED1	0	0	1.111172731
EPPIN-WF	0	0.829826533	0

ENSG0000	0	1.659653067	1.111172731
TMEM183	2.201284833	1.659653067	1.111172731
LINC0251	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
LNCPRES	0	0	1.111172731
ENSG0000	0	0.829826533	0
PCDHA11	0	3.319306133	0
LINC0221	0	0.829826533	0
SEMA6A-	4.402569665	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
HSPD1P5	0	4.9789592	0
ENSG0000	4.402569665	4.9789592	0
ATP1B1P1	14.30835141	4.149132667	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ATP5MGL	4.402569665	1.659653067	0
CASC16	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	4.149132667	0
RACK1P3	0	0	1.111172731
ENSG0000	1.100642416	0	0
TMEM150	146.3854414	169.2846128	91.11616398
NCOA4P3	0	0.829826533	6.667036389
TICAM2-A	2.201284833	2.4894796	0
C1QTNF7-	4.402569665	0	0
ENSG0000	8.80513933	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0	0
EEF1A1P9	27.51606041	9.128091867	44.44690926
LINC0093	2.201284833	0.829826533	0
HNRNPA1	3.301927249	0	0
UNC93B8	0	0	4.444690926
PDLIM1P4	8.80513933	0.829826533	0
ENSG0000	0	0.829826533	0
AMD1P3	0	1.659653067	2.222345463
ENSG0000	0	1.659653067	0
SLC25A15	1.100642416	0	0
LINC0141	2.201284833	3.319306133	0
LINC0108	36.32119974	3.319306133	25.55697282
ENSG0000	2.201284833	4.149132667	0

TERF1P3	6.603854498	0.829826533	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
OR5H5P	2.201284833	0	5.555863657
CTD-2194I	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	1.100642416	3.319306133	2.222345463
LINC0240	4.402569665	2.4894796	0
VPS51P7	0	0.829826533	0
UGDH-AS	8.80513933	8.298265334	1.111172731
LINC0219	5.503212081	0	0
NPM1P27	51.73019357	139.4108576	15.55641824
ENSG0000	1.100642416	8.298265334	0
TOMM40I	0	1.659653067	0
TRPC6P2	3.301927249	5.808785734	0
LINC0299	0	0.829826533	0
CASC11	5.503212081	2.4894796	5.555863657
LINC0106	0	1.659653067	0
GCLC-AS1	0	0.829826533	3.333518194
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
CASC9	3.301927249	59.7475104	6.667036389
ENSG0000	0	2.4894796	0
ENSG0000	0	4.9789592	0
ENSG0000	0	7.4684388	0
ENSG0000	2.201284833	0	0
NAIP	24.21413316	12.447398	41.11339106
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	6.667036389
ENSG0000	0	0.829826533	0
LINC0109	4.402569665	3.319306133	0
RBMXP4	1.100642416	2.4894796	1.111172731
ZNF324B	122.1713082	180.0723577	156.6753551
ENSG0000	4.402569665	2.4894796	0
ENSG0000	0	0.829826533	0
SPATS1	1.100642416	0.829826533	0
USP17L14	4.402569665	0	11.11172731
LINC0147	0	34.02288787	0
RBBP4P1	71.54175706	127.7932861	76.67091847
GAPDHP7	0	0	1.111172731
EGFLAM-	3.301927249	0.829826533	0
ENSG0000	9.905781747	26.55444907	0
ANKRD20	0	9.128091867	0

DMXL1-D	3.301927249	4.149132667	0
LINC0117	0	0.829826533	0
MED28-D	2.201284833	1.659653067	0
JMJD4P1	0	0.829826533	0
ZEB2P1	4.402569665	2.4894796	0
NEUROG2	1.100642416	0	0
LINC0211	0	9.128091867	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
MIR302CH	1.100642416	0	0
EEF1A1P2	1.100642416	0	0
LINC0123	1.100642416	1.659653067	0
RCC2P4	1.100642416	0	1.111172731
EVA1CP1	0	0	1.111172731
SERBP1P5	28.61670282	78.83352067	31.11283648
ENSG0000	0	1.659653067	6.667036389
TARS1-DT	9.905781747	30.70358173	0
ENSG0000	3.301927249	8.298265334	0
ENSG0000	0	0.829826533	0
MTATP6P	1.100642416	0	0
CLRN2	2.201284833	2.4894796	8.889381852
RPL7L1P4	1.100642416	0.829826533	0
LINC0222	0	0.829826533	0
PCGF3-AS	55.03212081	45.64045934	21.1122819
ENSG0000	1.100642416	0.829826533	0
LINC0118	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	11.11172731
LINC0217	0	0.829826533	0
LINC0250	0	0	1.111172731
LINC0246	0	1.659653067	0
PALLD-AS	0	0.829826533	0
IFNAR2-IL	2.201284833	0.829826533	0
PPP4R2P4	2.201284833	0.829826533	2.222345463
LINC0094	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
OR52V1P	0	1.659653067	0
ENSG0000	0	1.659653067	11.11172731
ANKHD1-	2.201284833	14.9368776	4.444690926
ENSG0000	0	1.659653067	0
TNRC18P1	12.10706658	2.4894796	6.667036389
CARMN	610.856541	61.40716347	4.444690926
NOP14-AS	29.71734524	25.72462253	26.66814555
ENSG0000	2.201284833	4.149132667	0

TUBA3GP	1.100642416	0	1.111172731
KRT19P3	0	0	3.333518194
ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
THEGL	2.201284833	9.9579184	31.11283648
ENSG0000	0	0.829826533	0
SRD5A3-A	1.100642416	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ZNF564	25.31477557	36.51236747	52.22511838
FER1L5	110.0642416	14.10705107	64.44801842
PARM1-A	0	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0224	0	0	1.111172731
ENSG0000	2.201284833	26.55444907	1.111172731
OSMR-DT	8.80513933	1.659653067	2.222345463
ENSG0000	5.503212081	3.319306133	10.00055458
ENSG0000	0	19.9158368	0
ZCCHC10	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	1.111172731
MTND6P1	1.100642416	0	0
ENSG0000	1.100642416	0	7.77820912
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	0	4.149132667	0
ENSG0000	3.301927249	0	0
LINC0211	1.100642416	6.638612267	0
EAF1-AS1	2.201284833	6.638612267	2.222345463
LINC0297	1.100642416	0.829826533	0
LINC0214	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
LINC0137	0	0.829826533	0
LINC0294	0	0.829826533	0
LINC0096	2.201284833	9.128091867	0
AFF4P1	0	0	1.111172731
THBS4-AS	25.31477557	9.9579184	11.11172731
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	8.298265334	6.667036389
GAPDHP7	0	0.829826533	1.111172731
OR7E43P	0	1.659653067	0
LINC0202	1.100642416	1.659653067	0
KRT18P31	12.10706658	6.638612267	5.555863657
HS3ST5	8.80513933	2.4894796	1.111172731
CDH18-AS	0	0.829826533	0
EEF1A1P1	6.603854498	9.128091867	2.222345463

ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
SNX5P1	2.201284833	0	1.111172731
PVT1	75.94432672	189.2004496	7.77820912
LGALS16	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
OR7E83P	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	9.905781747	0	0
LINC0250	1.100642416	0	0
RNF103-C	0	0.829826533	0
ARHGEF3	7.704496914	2.4894796	5.555863657
ENSG0000	1.100642416	0	0
NGFR-AS1	3.301927249	0.829826533	0
TRIM51CI	1.100642416	1.659653067	3.333518194
PDCD6	42.92505424	73.02473494	40.00221833
LINC0053(	0	0.829826533	3.333518194
RACK1P1	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
GOLGA8K	0	0.829826533	3.333518194
NCOA4P2	2.201284833	0	0
RAC1P2	5.503212081	5.808785734	4.444690926
LINC0222	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
XBP1P1	1.100642416	0.829826533	0
GBA3	1.100642416	0	1.111172731
UGT2B24I	7.704496914	6.638612267	3.333518194
TERB1	16.50963624	13.27722453	11.11172731
CDC42P4	1.100642416	0	0
ENSG0000	0	0.829826533	0
OR5H3P	2.201284833	0	12.22290005
TRGV7	2.201284833	0.829826533	0
YWHAQP(	3.301927249	1.659653067	5.555863657
MTCO2P2	0	0.829826533	0
TMEM158	25.31477557	5.808785734	18.88993643
ENSG0000	0	0	1.111172731
ECM1P2	0	0.829826533	0
PPIC-AS1	0	2.4894796	0
ENSG0000	0	0.829826533	0
GJD2-DT	2.201284833	1.659653067	0
SLC41A3-/	1.100642416	11.61757147	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	0

SLC7A11-	0	0.829826533	4.444690926
IGKV1D-3	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
CBX3P3	1.100642416	0	6.667036389
ENSG0000	0	0	1.111172731
LINC0101	4.402569665	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
MAPK10-	0	2.4894796	0
YJEFN3	62.73661773	54.7685512	70.00388208
ENSG0000	5.503212081	5.808785734	0
ARPC1AP	3.301927249	4.9789592	10.00055458
SH3TC2-D	1.100642416	0	0
ESAM-AS	0	0.829826533	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
DNAH10O	3.301927249	0	2.222345463
NREP-AS1	1.100642416	0	0
ENSG0000	0	1.659653067	0
TRPC6P6	0	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0237	0	4.9789592	0
PANCR	1.100642416	0	2.222345463
ENSG0000	0	0	14.44524551
ANKRD33	0	0.829826533	0
ENSG0000	3.301927249	4.149132667	1.111172731
ENSG0000	1.100642416	0.829826533	0
RHOQ-AS	1.100642416	0	0
PCDHA10	3.301927249	15.76670413	1.111172731
ENSG0000	0	4.149132667	0
LINC0223	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
GAPDHP4	1.100642416	0	0
AGA-DT	0	1.659653067	2.222345463
ENSG0000	3.301927249	24.894796	2.222345463
HOXC-AS	1.100642416	0	0
ENSG0000	8.80513933	1.659653067	0
EEF1A1P3	3.301927249	3.319306133	0
MORF4L2	0	0	1.111172731
KRT8P31	2.201284833	0	5.555863657
SLC1A3-A	1.100642416	0	0

LINC0206(	0	0.829826533	0
PKD2L2-D	58.33404806	91.28091867	51.11394565
C2CD5-AS	0	0.829826533	0
ENSG0000	0	0.829826533	0
RASA2-IT	7.704496914	4.9789592	0
MYLK-AS	0	0	1.111172731
EEF1A1P1	35.22055732	12.447398	43.33573653
ENSG0000	0	0	1.111172731
RCC2P8	0	0	2.222345463
ENSG0000	0	0	18.88993643
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
LINC0219	1.100642416	0	0
ENSG0000	5.503212081	0.829826533	0
FZD10-AS	18.71092108	2.4894796	0
CIR1P2	0	0	1.111172731
ANKRD17	3.301927249	3.319306133	0
KRT8P32	0	0	3.333518194
TRIM7-AS	1.100642416	5.808785734	1.111172731
TRIM60P1	1.100642416	0	5.555863657
ENSG0000	2.201284833	3.319306133	0
USP17L16	1.100642416	0	20.00110917
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	1.659653067	27.77931829
PCDH10-D	7.704496914	2.4894796	0
SEPHS2P1	0	0.829826533	0
PKD1P6	3.301927249	0	10.00055458
PTTG2	3.301927249	1.659653067	13.33407278
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
CCDC74B	0	0.829826533	0
LINC0161	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	11.00642416	3.319306133	0
ENSG0000	0	3.319306133	1.111172731
NCAPGP1	1.100642416	2.4894796	2.222345463
ENSG0000	0	2.4894796	0
CRYZP2	0	0	2.222345463
RDH10-AS	1.100642416	0.829826533	0
GIMD1	2.201284833	0	0
MRPS31P4	0	2.4894796	0
LINC0161	0	0	1.111172731

LINC0276	4.402569665	22.4053164	1.111172731
TRMT9B	5.503212081	0.829826533	0
TUBB8P3	0	0	1.111172731
SALL4P1	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
ZNF718	86.95075089	192.5197557	75.55974574
ENSG0000	0	0.829826533	0
SMIM20	30.81798766	7.4684388	80.00443666
RPL13AP2	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
EDIL3-DT	3.301927249	4.9789592	0
ENSG0000	17.61027866	24.894796	1.111172731
MRPL22P1	0	0.829826533	0
IGBP1P4	0	0	5.555863657
USP38-DT	1.100642416	4.149132667	0
MGC3280	18.71092108	2.4894796	3.333518194
POGLUT2	8.80513933	4.149132667	4.444690926
LINC0134	3.301927249	0	0
PTPN11P4	0	1.659653067	0
LINC0098	1.100642416	0	0
PURPL	6.603854498	2.4894796	0
ENSG0000	1.100642416	0	0
CXCL1P1	0	0	5.555863657
ENSG0000	0	0.829826533	0
EEF1GP2	0	0.829826533	0
ENSG0000	0	0.829826533	0
GYPB	0	5.808785734	21.1122819
KRT18P21	0	0	1.111172731
HEATR5A	0	3.319306133	0
TUNAR	0	3.319306133	0
ENSG0000	0	3.319306133	0
MARK2P4	0	0.829826533	0
UNC93B4	0	0	2.222345463
H3P21	0	0.829826533	0
LINC0219	0	1.659653067	0
CRLF3P2	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	3.333518194
ENSG0000	0	0	1.111172731
LRP2BP-A	0	3.319306133	10.00055458
KLHL2P1	4.402569665	3.319306133	21.1122819
ENSG0000	0	0.829826533	0
SEC63P2	0	0.829826533	0

AACSP1	23.11349074	0	6.667036389
KIAA1210	244.3426164	7.4684388	54.44746384
FTLP10	1.100642416	0	0
MRS2P1	0	0	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
FAM242C	2.201284833	0	0
CLSTN2-A	0	0.829826533	0
ENSG0000	0	0	1.111172731
CCT5P1	1.100642416	5.808785734	2.222345463
LINC0133	1.100642416	0.829826533	0
MARCHF1	0	4.149132667	0
HOXC-AS	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
LINC0226	0	0.829826533	0
ENSG0000	6.603854498	9.9579184	3.333518194
LRRC34P2	1.100642416	0	0
PHOX2B-A	0	1.659653067	0
GMPSP1	8.80513933	53.93872467	42.22456379
TRIM36-IT	3.301927249	0.829826533	0
WBP1LP2	3.301927249	0.829826533	1.111172731
RPL6P11	0	0.829826533	0
C12orf29P	3.301927249	0	0
PPM1AP1	0	0	1.111172731
PPIAP76	0	0	1.111172731
FAM218A	22.01284833	32.3632348	57.78098203
INTS6P1	11.00642416	13.27722453	6.667036389
ENSG0000	2.201284833	0	0
ENSG0000	0	0	1.111172731
ABT1P1	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
LINC0270	1.100642416	0	0
ENSG0000	1.100642416	0	0
GPR162	13.207709	78.00369414	110.0061004
ENSG0000	0	0	11.11172731
LINC0212	6.603854498	0	0
ENSG0000	1.100642416	17.4263572	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
CCT6P2	0	0	4.444690926
LINC0212	1.100642416	0	0
ABHD17A	2.201284833	1.659653067	1.111172731
KRT8P33	7.704496914	4.9789592	5.555863657

LINC0299	0	0.829826533	0
LINC0130	1.100642416	0.829826533	0
PPBPP1	2.201284833	0	0
MIR583HC	0	0.829826533	0
KNOP1P5	0	0.829826533	1.111172731
LINC0299	0	1.659653067	0
ATP6V1E2	35.22055732	59.7475104	63.33684569
UGT2B29I	1.100642416	1.659653067	1.111172731
ENSG0000	36.32119974	31.53340827	4.444690926
NTAN1P2	11.00642416	8.298265334	4.444690926
GLI4	197.0149925	137.7512045	160.0088733
ENSG0000	2.201284833	0.829826533	0
ADAMTS1	3.301927249	1.659653067	0
HPRT1P2	1.100642416	0	0
LINC0249	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	13.33407278
ENSG0000	0	2.4894796	0
NUDT16-I	41.82441182	34.02288787	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	4.149132667	0
YPEL3-DT	1.100642416	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
MTCO1P3	0	0.829826533	0
LINC0118	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
OR7E41P	1.100642416	0	1.111172731
ENSG0000	0	5.808785734	0
ENSG0000	9.905781747	15.76670413	1.111172731
ENSG0000	1.100642416	0.829826533	0
ST3GAL1I	3.301927249	0	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
HNRNPKP	1.100642416	0	0
REELD1	8.80513933	2.4894796	2.222345463
ENSG0000	0	0	1.111172731
LINC0049	0	35.68254093	1.111172731
ENSG0000	5.503212081	0.829826533	11.11172731
KHDRBS2	0	6.638612267	0
RPF2P2	0	1.659653067	0
ENSG0000	9.905781747	0.829826533	11.11172731
LINC0226	1.100642416	0	1.111172731
LINC0101	0	0.829826533	0
P3R3URF	0	0.829826533	0
SELENOP	4486.218489	1471.282444	1936.774071

ENSG0000	0	0.829826533	3.333518194
TPM3P6	1.100642416	0	0
C8orf17	0	0.829826533	0
ENSG0000	12.10706658	0	4.444690926
ENSG0000	0	0	8.889381852
ENSG0000	0	0	2.222345463
LINC0238	3.301927249	1.659653067	0
ENSG0000	4.402569665	3.319306133	0
MSRB3-AS	1.100642416	0	0
ENSG0000	0	3.319306133	0
LINC0243	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	8.80513933	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
DPP3P1	0	0	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	30.70358173	0
LINC0136	0	0.829826533	0
ENSG0000	0	0.829826533	0
SNHG18	3.301927249	0	0
TUBB8P4	1.100642416	0.829826533	1.111172731
ENSG0000	2.201284833	5.808785734	1.111172731
ALG1L12P	1.100642416	0	0
CIDECP2	1.100642416	0	2.222345463
PRODH2	5.503212081	1.659653067	22.22345463
ZBED3-AS	20.91220591	19.08601027	5.555863657
OR7E111P	0	0	1.111172731
MTCO2P3	2.201284833	1.659653067	0
LINC0222	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
EXOC1L	0	0.829826533	0
PGAM1P1	2.201284833	0	0
HNRNPA3	1.100642416	0.829826533	1.111172731
MFSD4BP	0	0	5.555863657
KRT18P54	1.100642416	2.4894796	0
LSM3P4	1.100642416	0	0
USP17L18	4.402569665	0	24.44580009
EPHA5-AS	0	1.659653067	0
PPP4R2P1	2.201284833	0	0
ENSG0000	2.201284833	1.659653067	0
RNF138P1	125.4732355	6.638612267	46.66925472

IGBP1P5	0	0	2.222345463
HNRNPKP	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
METTL21	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
LINC0220	0	3.319306133	0
ENSG0000	0	0	1.111172731
TUBAP15	3.301927249	0	0
RNPS1P1	3.301927249	7.4684388	18.88993643
HMGB3P1	1.100642416	0	0
ENSG0000	4.402569665	11.61757147	3.333518194
TRIM7-AS	11.00642416	1.659653067	1.111172731
SMAD1-A	3.301927249	1.659653067	8.889381852
GMDS-DT	93.55460539	158.4968679	16.66759097
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	0
MAP9-AS1	1.100642416	3.319306133	14.44524551
UGT2B26I	1.100642416	0.829826533	0
MESTP3	1.100642416	0	1.111172731
LINC0118	0	0.829826533	0
LNX1-AS1	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	1.111172731
MAD2L1-I	3.301927249	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	13.27722453	0
GLUD1P3	5.503212081	2.4894796	3.333518194
RMEL3	1.100642416	0	0
C12orf29P	1.100642416	0.829826533	3.333518194
H3P14	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	47.3001124	2.222345463
NSA2P6	0	0	1.111172731
FAM76AP	1.100642416	1.659653067	0
LINC0260	1.100642416	2.4894796	3.333518194
SNHG21	0	0.829826533	0
ENSG0000	0	1.659653067	0
TMEM30B	4.402569665	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
GGCTP1	36.32119974	34.8527144	0

ENSG0000	0	0	2.222345463
TRD-AS1	15.40899383	0	1.111172731
ZFPM2-AS	0	1.659653067	0
GAPDHP6	0	1.659653067	0
SLC25A30	1.100642416	0	0
ENSG0000	0	2.4894796	3.333518194
HMMR-AS	0	0	1.111172731
THAP9-AS	31.91863007	39.00184707	3.333518194
ENSG0000	7.704496914	10.78774493	0
NDUFB5P	1.100642416	0	0
NIHCOLE	0	35.68254093	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	14.30835141	4.9789592	0
LINC0248(	0	0.829826533	0
ZNF969P	1.100642416	3.319306133	0
ELL2P2	0	0.829826533	0
ENSG0000	0	0	1.111172731
ANKRD20	6.603854498	0	0
PRKG2-AS	1.100642416	0	0
ENSG0000	1.100642416	0	0
NUDT19P:	1.100642416	0	0
ALG1L3P	0	0	14.44524551
ENSG0000	1.100642416	0	0
ENSG0000	6.603854498	107.8774493	2.222345463
ENSG0000	1.100642416	0	0
CTBP2P4	33.01927249	13.27722453	3.333518194
ABITRAM	1.100642416	0.829826533	0
PDCD5P2	1.100642416	0	0
ENSG0000	0	0.829826533	0
NIFKP2	2.201284833	0	0
ENSG0000	2.201284833	0	0
WWC2-AS	0	0.829826533	0
LINC0250(	0	63.89664307	0
ENSG0000	1.100642416	2.4894796	3.333518194
RIPK2-DT	162.8950776	189.2004496	25.55697282
LINC0288:	6.603854498	4.9789592	1.111172731
MRPS30-D	1.100642416	8.298265334	0
ENSG0000	23.11349074	11.61757147	43.33573653
MTND5P5	12.10706658	0	0
HOXC-AS:	0	6.638612267	0
SEPTIN14	2.201284833	0	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	4.402569665	0	0
F11-AS1	0	0.829826533	0

ENSG0000	1.100642416	0	0
TPTE2P7	1.100642416	0	1.111172731
TSEN2P1	0	0	3.333518194
GSTCD-AS	2.201284833	0	0
OR7E21P	0	0	1.111172731
TMEM92-A	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	2.222345463
LINC0058	1.100642416	0	0
ZNF674	124.372593	131.1125923	128.8960368
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
TMED7-TI	0	0	8.889381852
ENSG0000	0	0.829826533	0
TILRLS	0	0.829826533	0
LINC00923	3.301927249	2.4894796	1.111172731
ENSG0000	2.201284833	0.829826533	1.111172731
GOLGA5P	5.503212081	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC01217	0	0.829826533	1.111172731
RFPL4AP3	1.100642416	0	0
LINC02714	2.201284833	0	0
PSMA2P2	1.100642416	0	0
SNRPCP2	15.40899383	48.95976547	2.222345463
ENSG0000	0	2.4894796	0
ZNF345	125.4732355	300.3972051	160.0088733
GTF2F2P1	1.100642416	0	0
ENSG0000	0	2.4894796	0
WDFY3-A	5.503212081	0.829826533	0
OR7H2P	0	0.829826533	0
LINC02429	0	0.829826533	0
LINC02228	1.100642416	1.659653067	0
SMIM15-A	3.301927249	20.74566333	0
ALG1L2	7.704496914	4.149132667	14.44524551
ERVH-1	0	0	1.111172731
TUBB7P	1.100642416	0.829826533	0
TMEM184	0	0	7.77820912
SLC25A15	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
LINC02384	0	1.659653067	0
NDUFB4P2	0	0.829826533	0
CCNO-DT	0	0	4.444690926

MRPS33P3	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
PCAT4	68.23982981	0	0
SHANK3	1.100642416	2.4894796	54.44746384
LINC0272	3.301927249	4.9789592	0
LINC0138	0	0	1.111172731
RTN3P1	143.0835141	280.4813683	143.3412824
MTCYBP3	0	0	1.111172731
HSPD1P11	5.503212081	14.9368776	0
LINC0247	0	43.98080627	0
ENSG0000	0	0	1.111172731
RAB5CP2	0	0.829826533	0
KHDC1P1	0	0.829826533	3.333518194
LINC0231	4.402569665	15.76670413	2.222345463
SYT9-AS1	14.30835141	10.78774493	4.444690926
LINC0223	2.201284833	0.829826533	0
ZNF550	227.8329802	170.1144393	212.2339917
LINC0049	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0095	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
YTHDF1P	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
LINC0130	9.905781747	8.298265334	2.222345463
ENSG0000	0	0.829826533	0
ALDH7A1	11.00642416	1.659653067	1.111172731
FAM90A2	0	0.829826533	0
ENSG0000	0	0	3.333518194
ARPC1AP	4.402569665	4.149132667	2.222345463
ENSG0000	0	1.659653067	1.111172731
ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
AIDAP2	18.71092108	0.829826533	11.11172731
LINC0261	5.503212081	8.298265334	3.333518194
C1GALT1I	0	0	1.111172731
NUP58P1	1.100642416	0	0
RTEL1P1	4.402569665	0.829826533	5.555863657
LINC0109	7.704496914	4.9789592	2.222345463
CBR4-DT	0	0	1.111172731
ENSG0000	0	2.4894796	0

ENSG0000	2.201284833	1.659653067	0
MTND1P1	0	0.829826533	0
RASGRF2-	2.201284833	0.829826533	0
HAUS1P1	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	4.402569665	0	0
ENSG0000	0	0.829826533	0
FKBP4P1	1.100642416	0	0
RPL7L1P1	1.100642416	0	1.111172731
CTDNEP1	5.503212081	1.659653067	0
ENSG0000	1.100642416	0	0
ASNSP4	1.100642416	0	0
ENSG0000	1.100642416	0	2.222345463
MTCO1P3	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
NRBF2P6	2.201284833	0.829826533	0
OR7E28P	1.100642416	0.829826533	0
FOXD1	4.402569665	154.3477352	318.9065739
PPIAP11	18.71092108	19.9158368	8.889381852
PITPNM2-	0	0.829826533	0
CENPS-CC	0	0.829826533	0
LIX1-AS1	3.301927249	0.829826533	12.22290005
CFAP53P1	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
IMPA1P1	2.201284833	1.659653067	0
TCP11X3P	0	0	2.222345463
LINC0243	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	7.704496914	4.9789592	6.667036389
LINC0220	1.100642416	0	0
ENSG0000	0	0	1.111172731
IGKV1D-3	15.40899383	0	0
ENSG0000	1.100642416	3.319306133	0
DDX18P4	3.301927249	1.659653067	0
MALAT1	24285.67492	20213.74453	8776.042233
ALG3P1	9.905781747	5.808785734	0
DDX3P3	16.50963624	45.64045934	26.66814555
ENSG0000	0	1.659653067	2.222345463
ENSG0000	0	36.51236747	0
C5orf64-AS	1.100642416	0.829826533	0
LINC0126	0	0	1.111172731
TACR3-AS	0	4.149132667	0

LINC0248	7.704496914	11.61757147	3.333518194
MFFP2	1.100642416	0	1.111172731
ENSG0000	0	0	1.111172731
LDHAP1	0	0	1.111172731
ENSG0000	0	0.829826533	0
MSNP1	16.50963624	27.3842756	24.44580009
ABCA11P	9.905781747	11.61757147	13.33407278
HADHAP1	2.201284833	5.808785734	16.66759097
ENSG0000	0	7.4684388	1.111172731
ENSG0000	4.402569665	3.319306133	4.444690926
ENSG0000	1.100642416	0	0
MTA1-DT	2.201284833	11.61757147	0
SETP12	3.301927249	7.4684388	0
FHIP1A-D	5.503212081	0	1.111172731
ENSG0000	19.81156349	10.78774493	1.111172731
LINC0224	0	0.829826533	0
ENSG0000	0	0	1.111172731
GYG1P1	0	1.659653067	0
NAIPP4	19.81156349	5.808785734	5.555863657
LINC0227	1.100642416	1.659653067	0
LINC0275	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	8.298265334	11.11172731
ENSG0000	2.201284833	0	0
PRB1	0	0	12.22290005
ENSG0000	0	1.659653067	1.111172731
PCDHA12	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ZNF346-IT	8.80513933	7.4684388	0
BRCC3P1	17.61027866	26.55444907	10.00055458
ENSG0000	2.201284833	0	3.333518194
SNHG27	1.100642416	146.0494699	1.111172731
ENSG0000	4.402569665	0.829826533	2.222345463
ENSG0000	12.10706658	16.59653067	4.444690926
UGT2B27I	17.61027866	1.659653067	22.22345463
ENSG0000	0	0	1.111172731
LINC0250	0	0	1.111172731
ENSG0000	0	0	3.333518194
PTX4	4.402569665	1.659653067	8.889381852
RNU6-998	1.100642416	4.149132667	0
RNA5-8SP	0	0.829826533	2.222345463
RNU2-13P	1.100642416	0	0
RNU5E-3P	0	0.829826533	0

RNU7-41P	1.100642416	0	0
Y_RNA.11	1.100642416	0.829826533	0
SCARNA8	2.201284833	19.9158368	0
RNU6-105	1.100642416	0	0
RNU7-124	0	0.829826533	0
RNU4ATA	1.100642416	11.61757147	1.111172731
RNU4-29P	1.100642416	0	0
RNU6-999	1.100642416	0.829826533	0
RNA5SP21	1.100642416	1.659653067	0
RNU6-377	0	1.659653067	0
RNU6-237	0	0	11.11172731
Y_RNA.11	0	0.829826533	0
RNU6-129	1.100642416	0	0
ENSG0000	0	0.829826533	0
RNU6-202	0	0.829826533	0
RNA5SP15	0	1.659653067	0
RN7SKP15	0	7.4684388	0
RNA5SP96	0	0.829826533	0
RNU6-518	1.100642416	4.9789592	0
SCARNA2	0	2.4894796	0
ENSG0000	11.00642416	20.74566333	13.33407278
RNU7-71P	1.100642416	1.659653067	0
SCARNA2	0	4.149132667	0
RNA5SP28	2.201284833	0.829826533	1.111172731
RNA5SP49	0	2.4894796	0
RNU7-84P	0	0	1.111172731
SCARNA1	0	3.319306133	1.111172731
VTRNA2-2	0	0.829826533	0
RNU6-351	1.100642416	0	0
RNU6-114	0	1.659653067	0
ENSG0000	2.201284833	0	0
RN7SKP16	0	0	1.111172731
RNU6-121	1.100642416	0	0
RNU6-123	0	5.808785734	0
RN7SKP14	0	0.829826533	0
RN7SKP43	0	0.829826533	0
Y_RNA.11	0	1.659653067	0
RNU4ATA	0	5.808785734	0
RNU6-168	2.201284833	0	0
RNA5SP30	0	0	2.222345463
RNA5SP15	1.100642416	0	0
RNU4ATA	0	0.829826533	0
SNORA70	0	0.829826533	0
Y_RNA.11	1.100642416	0	0

RNU6-126	0	0.829826533	0
RNY4P37	0	3.319306133	0
RN7SKP28	0	0	2.222345463
RNA5SP22	1.100642416	0	0
ENSG0000	2.201284833	4.149132667	0
RN7SKP27	0	0	1.111172731
RNA5SP46	0	0.829826533	0
RNA5SP34	0	1.659653067	0
ENSG0000	1.100642416	0	0
RN7SKP24	0	0.829826533	0
RNU6ATA	0	14.9368776	0
RNU6-313	0	0.829826533	0
SNORD27	0	0.829826533	0
RNU6-104	0	4.9789592	0
SNORA72	1.100642416	0	0
RNU6-781	0	0.829826533	0
Y_RNA.11	0	0.829826533	0
RNU7-40P	2.201284833	0	1.111172731
Y_RNA.12	0	0.829826533	0
RNU2-58P	0	4.149132667	1.111172731
SNORA74	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	0
RNU6-977	0	0.829826533	0
RNU7-13P	0	1.659653067	0
Y_RNA.12	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
RN7SKP25	3.301927249	4.9789592	0
RNU7-3P	0	0.829826533	0
RNA5SP92	4.402569665	0.829826533	0
RNA5SP26	1.100642416	0	0
RNA5SP61	1.100642416	0	0
Vault	2.201284833	0.829826533	0
RNA5SP13	0	0.829826533	0
SNORA74	5.503212081	3.319306133	3.333518194
RNU1-103	0	0.829826533	0
RNA5SP28	0	4.149132667	0
RNU6-133	0	1.659653067	0
RNU6-106	0	0.829826533	0
RNU2-34P	1.100642416	0.829826533	0
RNU6-125	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
RNU6-118	6.603854498	18.25618373	0
RNA5SP43	0	0.829826533	0
RNA5SP39	2.201284833	0	0

RNU6-638	0	3.319306133	0
ENSG0000	0	0.829826533	0
RNU6-100	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	14.9368776	0
RNA5SP16	1.100642416	4.149132667	0
RNU6-107	0	4.149132667	0
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	4.402569665	8.298265334	1.111172731
Y_RNA.12	0	0.829826533	0
RNU6-126	0	4.9789592	0
RNA5SP33	3.301927249	3.319306133	0
RNU6-101	7.704496914	9.9579184	0
SNORA70.	1.100642416	0	0
RNA5SP82	1.100642416	0	0
RNU6-783	1.100642416	0	0
RNA5SP46	0	2.4894796	0
RNU6-759	2.201284833	5.808785734	0
RNU7-28P	1.100642416	0	0
SCARNA2	0	1.659653067	0
Y_RNA.12	3.301927249	0.829826533	0
RNU6-807	0	1.659653067	0
RNU6ATA	0	2.4894796	0
RNU6-122	2.201284833	3.319306133	0
RNU6-453	0	1.659653067	0
RNU6-678	1.100642416	0	0
RNU6-113	4.402569665	1.659653067	0
RNA5SP75	1.100642416	0	0
Y_RNA.12	0	2.4894796	0
RNU6-786	1.100642416	0	0
RNA5SP44	0	0.829826533	0
RNU6ATA	0	0.829826533	0
RNU6-928	0	1.659653067	0
ENSG0000	9.905781747	11.61757147	0
MIR2276	0	0.829826533	0
SCARNA1	1.100642416	0.829826533	0
RNU6-798	0	0.829826533	0
RNU7-151	0	2.4894796	0
RNU6-143	0	3.319306133	0
RNU6-577	0	0.829826533	0
RN7SKP96	1.100642416	0	1.111172731
Y_RNA.12	2.201284833	9.9579184	0
RNU6-856	0	0.829826533	0
ENSG0000	0	1.659653067	0

RNU6-341	2.201284833	0	0
RNU6-148	1.100642416	0	0
SCARNA2	33.01927249	72.1949084	27.77931829
RNU1-117	0	0.829826533	0
ENSG0000	1.100642416	0	0
RN7SKP5	0	1.659653067	0
RNA5SP24	2.201284833	0	0
RNU6-334	0	0.829826533	0
RNA5SP34	0	0.829826533	0
SCARNA3	2.201284833	3.319306133	0
RNU6-158	0	0	1.111172731
RNU6-789	0	4.149132667	1.111172731
RNU6-762	1.100642416	0	0
Y_RNA.12	0	1.659653067	0
RNU6-101	0	0.829826533	0
RNU6-231	0	0	1.111172731
RNU6-122	0	0.829826533	0
SCARNA1	3.301927249	18.25618373	2.222345463
RNA5SP40	0	0.829826533	0
RN7SKP25	1.100642416	0	0
Y_RNA.12	0	1.659653067	0
RNU6-105	0	1.659653067	0
RNU6-367	0	0.829826533	0
RN7SKP23	0	1.659653067	0
SNORD11	2.201284833	21.57548987	0
RNU1-54P	1.100642416	0	0
ENSG0000	0	0.829826533	0
RNU6-667	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
RN7SKP35	0	0	1.111172731
RNU7-156	0	0.829826533	0
RNU7-181	0	1.659653067	0
ENSG0000	1.100642416	0	0
RNU4-60P	0	2.4894796	0
RNU7-77P	2.201284833	0	0
RN7SKP57	3.301927249	1.659653067	0
NRON	0	0.829826533	0
RNA5SP37	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
LINC01609	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0

HNRNPA3	0	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
IGHV3-62	4.402569665	0	0
GPAT4-AS	3.301927249	2.4894796	2.222345463
PSMC2P2	1.100642416	102.0686636	0
LINC0096	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	50.62955115	87.131786	84.44912759
CIR1P1	1.100642416	0.829826533	1.111172731
LINC0302	1.100642416	0	0
RGS21	2.201284833	1.659653067	0
ENSG0000	0	1.659653067	0
PCDHGA1	156.2912231	41.49132667	72.22622754
LINC0160	1.100642416	4.149132667	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
H2AZP2	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	33.01927249	9.128091867	3.333518194
ENSG0000	0	0.829826533	0
HOXA10-A	27.51606041	0	10.00055458
ENSG0000	0	0.829826533	0
IGKV1D-3	0	0	1.111172731
ENSG0000	2.201284833	0	2.222345463
ENSG0000	37.42184215	12.447398	46.66925472
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
PSME2P5	0	0.829826533	0
DENND3-A	1.100642416	14.9368776	0
USP12P1	7.704496914	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
KLF3P1	23.11349074	19.9158368	4.444690926
KRT18P41	0	0.829826533	0
ENSG0000	7.704496914	1.659653067	8.889381852
ENSG0000	0	0.829826533	0
NRBF2P4	2.201284833	0.829826533	0
IGLV2-5	0	0	2.222345463
LINC0214	0	1.659653067	0
ENSG0000	1.100642416	0	0

ENSG0000	1.100642416	1.659653067	1.111172731
IGLVI-70	0	0	2.222345463
C8orf88	38.52248457	171.7740924	26.66814555
SHLD3	69.34047223	78.83352067	60.0033275
ENSG0000	1.100642416	4.149132667	3.333518194
FAM83A-/	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	1.659653067	0
CCDC71L	167.2976473	67.2159492	132.229555
LINC0220	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	25.31477557	237.3303885	2.222345463
ENSG0000	1.100642416	27.3842756	0
ENSG0000	0	0.829826533	0
HOXA10	167.2976473	4.9789592	104.4502368
ENSG0000	3.301927249	0	0
ENSG0000	2.201284833	0	0
STAU2-AS	0	1.659653067	0
TMEM200	31.91863007	4.149132667	10.00055458
PCDHGB6	139.7815869	85.47213294	121.1178277
ENSG0000	5.503212081	9.9579184	0
ENSG0000	1.100642416	0	1.111172731
SERPINE3	1.100642416	0.829826533	2.222345463
LINC0184	2.201284833	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
C1orf210	11.00642416	26.55444907	21.1122819
LINC0029	4.402569665	4.149132667	0
MAILR	24.21413316	12.447398	6.667036389
RAD21-AS	4.402569665	2.4894796	0
ENSG0000	0	1.659653067	5.555863657
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	2.222345463
ENSG0000	0	5.808785734	0
PCBP2P2	6.603854498	4.149132667	28.89049102
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	28.21410213	5.555863657
COX6B1P(	1.100642416	0.829826533	1.111172731
TUG1	315.8843735	507.8538384	36.66870014
ENSG0000	1.100642416	2.4894796	6.667036389
ENSG0000	0	0.829826533	0

ENSG0000	1.100642416	0	0
ENSG0000	0	9.128091867	0
ENSG0000	0	0.829826533	0
ENSG0000	0	21.57548987	5.555863657
COPDA1	1.100642416	0	0
IGKV1D-2	2.201284833	0	0
GUSBP16	0	0	1.111172731
TRNP1	7.704496914	12.447398	17.7787637
ENSG0000	3.301927249	224.8829905	40.00221833
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	8.298265334	3.333518194
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
POU5F1P2	0	0.829826533	0
ABRAXAS	2.201284833	0	0
ENSG0000	1.100642416	0	4.444690926
ENTPD4-D	1.100642416	0.829826533	0
ENSG0000	30.81798766	21.57548987	50.00277291
LINC0053	4.402569665	6.638612267	2.222345463
LINC0304	0	4.149132667	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	0	1.111172731
CTNNA1-A	2.201284833	0	0
IKBKB-DT	2.201284833	0	0
TRBV7-4	2.201284833	0	0
LINC0160	2.201284833	0.829826533	0
ENSG0000	3.301927249	0.829826533	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
HSPA8P13	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
SRPK2P	2.201284833	1.659653067	7.77820912
NCRNA00	0	0.829826533	0
LINC0223	0	1.659653067	0
RNU6-988	1.100642416	0.829826533	0
PCAT1	34.11991491	44.8106328	4.444690926
ENSG0000	1.100642416	0.829826533	0
NDUFA5P	0	0.829826533	0
SMIM18	0	4.149132667	0
HMGB1P1	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
ENSG0000	0	0	1.111172731

ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	19.9158368	0
ENSG0000	2.201284833	0	0
IGKV1OR2	0	0.829826533	0
ENSG0000	1.100642416	0	3.333518194
PCDHGA5	122.1713082	69.7054288	336.6853376
LINC0209	0	0.829826533	0
CYCSP23	4.402569665	0	0
ENSG0000	0	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	131.9424188	0
NACA2	6.603854498	1.659653067	21.1122819
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
HMGB1P4	12.10706658	4.9789592	0
XRCC6P4	0	0	1.111172731
ENSG0000	0	0.829826533	0
HPYR1	0	1.659653067	1.111172731
MIR3142H	3.301927249	0	1.111172731
CPP	14.30835141	14.9368776	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	8.298265334	1.111172731
TRBV6-8	0	0	5.555863657
ADAM7-A	1.100642416	0	1.111172731
PCDHGA7	108.9635992	50.61941854	643.3690115
ENSG0000	0	1.659653067	0
FAM86HP	4.402569665	1.659653067	4.444690926
SEPTIN10	16.50963624	14.10705107	18.88993643
ENSG0000	1.100642416	0.829826533	2.222345463
IGLVVI-22	1.100642416	0	0
TUBAP7	0	0.829826533	0
CA3-AS1	0	3.319306133	10.00055458
ENSG0000	0	0.829826533	0
HOXA-AS	12.10706658	4.9789592	2.222345463
ENSG0000	5.503212081	6.638612267	11.11172731
LINC0141	0	0.829826533	0
TARDBPP	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
OSGEPL1-	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
NKX2-1-A	0	73.02473494	0

ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0	0
RNF5P1	4.402569665	9.9579184	12.22290005
ENSG0000	0	0	5.555863657
DPPA3P9	0	1.659653067	0
OXR1-AS1	3.301927249	1.659653067	0
ENSG0000	0	17.4263572	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	1.111172731
IGLV3-13	3.301927249	0	0
KCNIP1-A	0	0.829826533	0
ENSG0000	0	1.659653067	0
SLC10A5	47.3276239	73.85456147	298.9054648
ENSG0000	0	0	8.889381852
RN7SL260	0	0.829826533	0
ENSG0000	0	0.829826533	0
AFG3L2P1	4.402569665	5.808785734	1.111172731
ENSG0000	1.100642416	0.829826533	4.444690926
GRPEL2-A	0	1.659653067	1.111172731
RPSAP74	0	0.829826533	0
EIF5AL1	40.7237694	84.6423064	82.22678213
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0	0
LINC0304	0	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	12.10706658	51.44924507	4.444690926
SUMO2P1	1.100642416	0	0
LINC0302	0	1.659653067	0
ENSG0000	1.100642416	4.149132667	0
ADAM7-A	0	0.829826533	0
LINC0284	0	0	1.111172731
KCNIP1-O	1.100642416	1.659653067	0
SMARCE1	0	0.829826533	0
SOD1P3	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	2.4894796	0
ZFHX4-AS	4.402569665	1.659653067	1.111172731
ENSG0000	0	0	7.77820912
LINC0286	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
GASAL1	1.100642416	0.829826533	1.111172731
ENSG0000	13.207709	0	2.222345463

ENSG0000	0	2.4894796	0
TAGLN2P	18.71092108	63.06681654	32.22400921
UBE2HP1	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	4.402569665	7.4684388	4.444690926
LINC0148	1.100642416	16.59653067	1.111172731
ENSG0000	0	0	2.222345463
IGKV2OR	1.100642416	0.829826533	0
IGHEP1	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
VIRMA-D	5.503212081	14.10705107	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	0
ALG11	237.7387619	419.8922259	196.6775735
ENSG0000	4.402569665	0	0
LINC0288	0	0.829826533	0
ENSG0000	0	4.9789592	0
MINCR	14.30835141	28.21410213	2.222345463
ATXN7L3	422.6466879	848.0827171	443.3579198
SUMO2P2	0	0	1.111172731
ENSG0000	3.301927249	4.149132667	4.444690926
ENSG0000	0	98.74935747	0
PRKDC	9835.340632	39899.71938	12927.38356
ENSG0000	0	1.659653067	0
PCDHGA6	124.372593	81.32300027	215.5675099
ENSG0000	2.201284833	0.829826533	1.111172731
OTUD6B-A	62.73661773	300.3972051	6.667036389
RNU6-323	0	4.149132667	0
ENSG0000	0	0.829826533	0
LNCOC1	7.704496914	38.17202053	0
MARK2P1	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
CYP4F44P	1.100642416	0	0
IGLVI-63	0	0	1.111172731
IGHGP	587.7430503	6.638612267	0
ENSG0000	0	1.659653067	0
PCDHGA8	36.32119974	39.8316736	85.56030032
ENSG0000	1.100642416	0.829826533	0
TPTE2P1	0	2.4894796	0
ENSG0000	1.100642416	0	0
CFAP418-A	8.80513933	21.57548987	27.77931829
ENSG0000	0	0.829826533	0
ZNF317P1	0	0	1.111172731
ENSG0000	0	2.4894796	0

ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	10.78774493	6.667036389
ENSG0000	3.301927249	1.659653067	0
MTND1P5	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
SIRLNT	8.80513933	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
LINC0117(	0	0.829826533	0
PSAT1P1	2.201284833	0	0
GUSBP14	1.100642416	1.659653067	2.222345463
ENSG0000	0	1.659653067	0
LINC0115	1.100642416	4.9789592	0
IGLV1-62	0	0.829826533	0
ETV3L	1.100642416	0	0
DSTNP3	0	0.829826533	0
ENSG0000	0	97.91953094	0
LOXL2-AS	0	0	5.555863657
ENSG0000	0	24.06496947	1.111172731
ENSG0000	4.402569665	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
PCDHGA1	122.1713082	51.44924507	213.3451644
RBM12B-I	1.100642416	2.4894796	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
FER1L6-A	3.301927249	2.4894796	5.555863657
PIGFP1	3.301927249	1.659653067	3.333518194
ENSG0000	1.100642416	1.659653067	0
PCDHGA1	93.55460539	58.08785734	84.44912759
ENSG0000	1.100642416	0	0
LINC0160	1.100642416	164.3056536	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
PCDHGB2	160.6937928	87.96161254	316.6842285
ENSG0000	0	0.829826533	0
MAPRE1P	1.100642416	1.659653067	0

THAP12P7	16.50963624	13.27722453	20.00110917
ENSG0000	0	2.4894796	0
MRPL49P2	0	0.829826533	0
KRT18P37	3.301927249	0	1.111172731
RPL21P59	0	0.829826533	0
VPS13B-D	6.603854498	9.128091867	2.222345463
CCT3P1	1.100642416	0.829826533	0
PCDHGB4	73.74304189	41.49132667	220.0122008
HMGN1P3	18.71092108	17.4263572	2.222345463
LINC0299	1.100642416	0	0
ENSG0000	0	0.829826533	0
CLDN23	0	2.4894796	0
LINC0186	1.100642416	2.4894796	0
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	0
RPL31P40	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
NRIP3-DT	1.100642416	2.4894796	11.11172731
NRG1-IT1	1.100642416	195.8390619	0
TENM2-AS	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	3.319306133	0
NDUFB9P	0	0.829826533	0
RPL10P18	1.100642416	0	0
ENSG0000	0	0.829826533	0
SRI-AS1	4.402569665	0	0
ZNF260	530.5096447	1032.304208	437.8020562
MAP2K1P	4.402569665	1.659653067	7.77820912
ALG1L10P	2.201284833	0	5.555863657
IGHEP2	0	0	5.555863657
ENSG0000	1.100642416	0	21.1122819
PKMP4	0	0	5.555863657
ENSG0000	2.201284833	0	3.333518194
LNMICC	7.704496914	40.66150013	100.0055458
ENSG0000	0	6.638612267	0
IGLC4	0	0	1.111172731
INTS9-AS1	0	1.659653067	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0

ENSG0000	1.100642416	0	0
SLIT3-AS2	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
NRG1-IT3	0	11.61757147	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
IGHV3-71	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	5.503212081	0.829826533	0
PIWIL2-D1	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
LINC0129	0	1.659653067	0
LYN	305.9785917	629.0085123	222.2345463
SLC2A3P4	2.201284833	1.659653067	4.444690926
ENSG0000	20.91220591	0	0
MTND2P3	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
PINX1	6.603854498	5.808785734	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0	2.222345463
LINC0205	3.301927249	3.319306133	2.222345463
PPIAP85	5.503212081	6.638612267	3.333518194
RBPMS-AS	1.100642416	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
PCDHGB7	258.6509678	62.23699	132.229555
LINC0283	0	0.829826533	0
CD8B2	2.201284833	0.829826533	0
MTND6P3	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0301	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
HMGB1P4	0	0.829826533	0
PPIAP84	1.100642416	0	2.222345463
CRYZL2P-	2.201284833	0.829826533	2.222345463
MTND6P2	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	26.41541799	16.59653067	0
CASC19	4.402569665	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	0	6.638612267	0

SLC25A51	0	0	3.333518194
MAPK6P5	3.301927249	6.638612267	4.444690926
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	4.444690926
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
NPIPB11	320.2869431	340.2288787	238.9021373
ENSG0000	2.201284833	0.829826533	2.222345463
ENSG0000	0	0	3.333518194
PRXL2AP2	3.301927249	0	4.444690926
ENSG0000	1.100642416	0.829826533	0
PCDHGB1	84.74946605	295.4182459	397.7998379
UQCRB-A	6.603854498	2.4894796	1.111172731
LINC0193	1.100642416	1.659653067	1.111172731
ENSG0000	0	4.149132667	0
FAM90A1	0	0	1.111172731
ENSG0000	0	0	1.111172731
WWP1-AS	4.402569665	0.829826533	3.333518194
ENSG0000	0	2.4894796	2.222345463
MTCO1P4	0	34.8527144	0
PAICSP4	0	9.128091867	7.77820912
PCDHGA3	50.62955115	23.23514293	173.3429461
ENSG0000	1.100642416	0	0
PENK-AS1	0	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
PKIA-AS1	2.201284833	3.319306133	1.111172731
ANK3-DT	1.100642416	2.4894796	0
BTF3P3	2.201284833	0.829826533	0
ENSG0000	4.402569665	2.4894796	0
LINC0082	0	0.829826533	0
KRT8P3	35.22055732	14.9368776	30.00166375
ENSG0000	7.704496914	0	0
IGKV2D-1	0	0.829826533	0
IMPDH1P6	0	1.659653067	1.111172731
ENSG0000	2.201284833	0.829826533	0
LINC0111	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
LINC0302	0	0.829826533	0
MIR151A	0	2.4894796	0

ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	3.301927249	9.9579184	0
CKS1BP7	3.301927249	1.659653067	1.111172731
TPM4P3	4.402569665	0	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	1.111172731
MTND1P6	0	0.829826533	0
MIR2052H	0	23.23514293	1.111172731
ARL2BPP5	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	0
ENSG0000	7.704496914	5.808785734	3.333518194
HOXA-AS	4.402569665	1.659653067	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	4.402569665	5.808785734	1.111172731
SOX5P1	1.100642416	0	7.77820912
TUBB8P5	0	0	2.222345463
ENSG0000	0	2.4894796	0
MYL12AP	4.402569665	1.659653067	0
RHPN1-AS	2.201284833	9.128091867	2.222345463
ENSG0000	0	1.659653067	0
GLYATL1	2.201284833	2.4894796	7.77820912
ENSG0000	0	0.829826533	0
LINC0275	1.100642416	0	0
LRRC24	28.61670282	100.4090105	70.00388208
ENSG0000	2.201284833	0	0
PHB1P17	0	0.829826533	0
ENSG0000	2.201284833	6.638612267	0
ENSG0000	1.100642416	0	5.555863657
CHKB-CP	4.402569665	0	1.111172731
SIGLEC14	29.71734524	24.06496947	55.55863657
SPON1-AS	2.201284833	0	7.77820912
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
LINC0269	0	10.78774493	1.111172731
PBOV1	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	4.9789592	28.89049102
ENSG0000	0	0	1.111172731
SF3A3P2	3.301927249	7.4684388	2.222345463

ALG9-IT1	0	1.659653067	0
CAPS2-AS	0	0.829826533	0
ENSG0000	0	0.829826533	0
NAV2-AS2	1.100642416	1.659653067	15.55641824
RCC2P6	7.704496914	12.447398	4.444690926
ENSG0000	0	5.808785734	0
ENSG0000	0	2.4894796	0
ENSG0000	3.301927249	0	3.333518194
PPIAP41	13.207709	2.4894796	1.111172731
OR4A3P	1.100642416	0	0
THAP12P4	0	0.829826533	0
OR4D10	2.201284833	2.4894796	45.55808199
XNDC1N	49.52890873	121.9845004	30.00166375
AP5B1	172.8008594	229.8619497	505.5835928
ENSG0000	0	1.659653067	2.222345463
UBQLN1-A	1.100642416	5.808785734	2.222345463
OR2AT1P	1.100642416	0	2.222345463
ENSG0000	2.201284833	0	0
LINC0274	0	0.829826533	0
PTP4A2P2	1.100642416	1.659653067	0
SUGT1P4	0	0.829826533	0
ENSG0000	3.301927249	5.808785734	0
LINC0254	1.100642416	0	0
ENSG0000	0	0.829826533	0
RANP3	0	1.659653067	0
ENSG0000	2.201284833	3.319306133	0
FNTAP1	1.100642416	2.4894796	13.33407278
CHMP4A	1.100642416	0	0
ENSG0000	2.201284833	0	3.333518194
FBXO3-DT	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	9.9579184	0
ENSG0000	1.100642416	0	0
TRPC6P5	3.301927249	0	0
ENSG0000	2.201284833	1.659653067	0
SIGLEC12	17.61027866	14.10705107	27.77931829
ENSG0000	0	3.319306133	0
FXYD6-AS	0	5.808785734	0
MRGPRX7	0	0.829826533	0
LINC0275	2.201284833	0	0
FLJ20021	18.71092108	9.128091867	0
ARL14EP-	0	0.829826533	0
PLS1P1	0	0	2.222345463
PABPC4L	148.5867262	144.3898168	101.1167186

ENSG0000	1.100642416	4.149132667	1.111172731
ENSG0000	0	5.808785734	0
ENSG0000	0	0.829826533	1.111172731
MRGPRX1	2.201284833	0	0
ANKRD33	0	0	2.222345463
OMP	30.81798766	4.149132667	31.11283648
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ANKRD33	0	0	1.111172731
ENSG0000	1.100642416	0	0
BBOX1-AS	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	1.100642416	1.659653067	0
MAGEL2	1.100642416	0	0
ENSG0000	0	1.659653067	0
EIF4A2P3	0	1.659653067	0
ENSG0000	2.201284833	0	0
LINC0268(	0	0.829826533	0
ENSG0000	1.100642416	0	0
CSNK2A3	540.4154264	555.1539508	361.1311377
ENSG0000	0	0.829826533	0
MIR130AH	7.704496914	9.128091867	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
DNAJB6P1	81.44753881	102.0686636	76.67091847
CAPN1-AS	2.201284833	11.61757147	2.222345463
TMED10P	0	0	1.111172731
ENSG0000	1.100642416	0	0
NAV2-AS4	0	0	1.111172731
OR4R3P	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	0
SMG1P6	38.52248457	46.47028587	111.1172731
WAC-AS1	58.33404806	82.1528268	1.111172731
ARMS2	1.100642416	1.659653067	16.66759097
ENSG0000	0	0.829826533	0
COX6CP5	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
INS	0	0.829826533	1.111172731
MTCYBP4	0	0	1.111172731
RTL1	9.905781747	12.447398	40.00221833
OR4A11P	0	0.829826533	0
ENSG0000	8.80513933	4.9789592	0
ENSG0000	1.100642416	0	0
OR4A42P	3.301927249	0	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
PKD1P5	128.7751627	263.0550111	640.0354933
ENSG0000	6.603854498	14.9368776	0
FPGT	195.9143501	358.4850624	276.6820101
ENSG0000	0	0.829826533	0
LINC0223	5.503212081	3.319306133	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0269	0	0.829826533	0
ENSG0000	3.301927249	4.9789592	20.00110917
ENSG0000	1.100642416	0	0
SENCR	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	2.222345463
ENSG0000	0	0	2.222345463
MMADHC	15.40899383	24.894796	0
IGLL5	1.100642416	0.829826533	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	2.4894796	0
MRGPRX1	0	0	2.222345463
ENSG0000	1.100642416	0	0
MEX3A	144.1841565	490.4274812	155.5641824
ANKRD33	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	6.638612267	0
ENSG0000	1.100642416	0	0
OR10G4	1.100642416	0	8.889381852
MRGPRX1	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
HNRNPCP	1.100642416	0.829826533	7.77820912
CASP1P2	3.301927249	0	17.7787637
ENSG0000	1.100642416	0	0

ENSG0000	2.201284833	0.829826533	0
NAP1L1P1	3.301927249	4.149132667	4.444690926
SIGLEC10	1.100642416	2.4894796	0
TRIM53CI	2.201284833	2.4894796	0
OR4A4P	1.100642416	2.4894796	8.889381852
ENSG0000	1.100642416	3.319306133	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	0	0
GVINP2	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	14.30835141	10.78774493	0
FAR1-IT1	2.201284833	8.298265334	0
FDPSP4	1.100642416	0.829826533	0
OR5AP1P	0	0	1.111172731
SNRPCP14	0	0	3.333518194
SYS1-DBN	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	0.829826533	0
LMNTD2-A	1.100642416	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ANO3-AS1	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0272	2.201284833	0	0
ENSG0000	0	0	1.111172731
OR4A40P	1.100642416	5.808785734	0
OR5M10	1.100642416	0.829826533	0
LIPT2-AS1	82.54818122	78.00369414	73.33740027
ENSG0000	0	2.4894796	0
OR4V1P	0	0.829826533	0
LINC0255	0	0.829826533	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	14.44524551
NPIPA2	1.100642416	3.319306133	3.333518194
KLC2-AS1	3.301927249	0	0
MRGPRX1	0	0	1.111172731
MPV17L2	46.22698148	72.1949084	84.44912759
TMEM9B-	13.207709	11.61757147	0
LGR4-AS1	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
SUGT1P4-	6.603854498	17.4263572	3.333518194
ENSG0000	3.301927249	0	0

PRR13P2	1.100642416	5.808785734	1.111172731
OR4A9P	1.100642416	0	0
RAP1BL	35.22055732	19.9158368	7.77820912
ENSG0000	0	3.319306133	2.222345463
ENSG0000	0	0.829826533	2.222345463
BORCS8	92.45396297	57.2580308	27.77931829
ANO1-AS1	0	0	14.44524551
ENSG0000	6.603854498	9.128091867	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	2.4894796	0
SCARNA9	5.503212081	14.10705107	1.111172731
ANKRD33	0	0	5.555863657
ENSG0000	0	0	10.00055458
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
OR4C9P	1.100642416	0	8.889381852
ENSG0000	0	0.829826533	0
LINC00678	0	0.829826533	0
ENSG0000	0	5.808785734	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
OR4A19P	1.100642416	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0	2.222345463
LINC02751	0	1.659653067	0
ENSG0000	3.301927249	0	0
INMT-MIN	6.603854498	0	0
TUBB4BP4	0	0	1.111172731
ENSG0000	0	0.829826533	0
C1DP5	1.100642416	0	0
IGSF22-AS	7.704496914	0	0
LINC02762	0	0.829826533	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ALG1L9P.	1.100642416	5.808785734	1.111172731
ENSG0000	0	0.829826533	0
RSF1-IT2	1.100642416	2.4894796	0
DPP3	115.5674537	394.1676033	666.7036389
ENSG0000	0	2.4894796	1.111172731
ENSG0000	2.201284833	0	11.11172731
ENSG0000	1.100642416	2.4894796	0
TRIM77BP	5.503212081	1.659653067	0
STX16-NP	14.30835141	13.27722453	53.33629111
ANKHD1-	40.7237694	16.59653067	8.889381852

KRTAP5-9	3.301927249	1.659653067	34.44635467
BRK1	213.5246288	683.7770635	213.3451644
ENSG0000	2.201284833	0	0
LINC0232	0	0.829826533	0
CYCSP28	0	1.659653067	0
ENSG0000	0	0.829826533	0
LINC0248	1.100642416	0	0
LINC0273	2.201284833	2.4894796	0
UBTFL1	3.301927249	0	0
COX5BP4	0	0.829826533	0
ENSG0000	0	0	1.111172731
OR5M1	8.80513933	0	15.55641824
ARL6IP1P	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	5.808785734	0
SDHCP4	3.301927249	5.808785734	1.111172731
SUGT1P4-	4.402569665	0.829826533	0
MORF4L1	0	0	2.222345463
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0	2.222345463
BCAS2P1	1.100642416	0.829826533	0
FAM66D	1.100642416	0	0
PPIAP43	2.201284833	0	4.444690926
TIRAP-AS	2.201284833	4.9789592	0
RBMXP3	0	2.4894796	0
ENSG0000	1.100642416	3.319306133	0
OSBPL9P3	1.100642416	0	0
CENPUP1	1.100642416	0	0
ENSG0000	0	0.829826533	0
GRM5-AS	3.301927249	0.829826533	11.11172731
OR5AK1P	1.100642416	5.808785734	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
OR5B10P	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
TSKU-AS1	1.100642416	0	0
ENSG0000	3.301927249	0	6.667036389
ENSG0000	3.301927249	3.319306133	0
CHMP1B	206.9207743	512.8327976	393.3551469
SLC5A4P1	1.100642416	0	0
ENSG0000	0	0	4.444690926

ENSG0000	0	0.829826533	0
TTC12-DT	0	0.829826533	0
ENSG0000	0	0.829826533	0
EMSY-DT	3.301927249	9.9579184	1.111172731
TPBGL-AS	1.100642416	1.659653067	0
GLTPP1	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
STX17-DT	3.301927249	2.4894796	0
EID3	48.42826632	26.55444907	20.00110917
GLYATL1	2.201284833	3.319306133	13.33407278
TOLLIP-D	0	1.659653067	0
HTD2	2.201284833	2.4894796	0
RNY1P9	0	1.659653067	0
ENSG0000	0	0.829826533	0
ANKRD33	1.100642416	0	2.222345463
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
OR5AM1P	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	23.23514293	0
MUC5B-A	2.201284833	10.78774493	43.33573653
ENSG0000	0	0.829826533	0
CCDC166	2.201284833	0.829826533	0
ENSG0000	48.42826632	31.53340827	181.1211552
ENSG0000	1.100642416	0	0
LINC0274	0	0	1.111172731
GLYATL1	2.201284833	0	1.111172731
NANOGP8	16.50963624	3.319306133	3.333518194
LINC0272	0	0	1.111172731
SLC39A13	2.201284833	5.808785734	1.111172731
PGAM1P8	2.201284833	2.4894796	3.333518194
OR7E2P	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	0	0
NPM1P35	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
DDX18P5	0	0	2.222345463
OR5M11	0	0.829826533	22.22345463
ENSG0000	5.503212081	10.78774493	12.22290005

LINC0269(	0	0.829826533	0
MRPS36P4	0	1.659653067	2.222345463
CCDC90B-	3.301927249	6.638612267	8.889381852
CHKA-DT	0	0.829826533	0
RFPL4AP1	2.201284833	1.659653067	6.667036389
ENSG0000	75.94432672	23.23514293	5.555863657
ENSG0000	0	0.829826533	0
MIR100HC	102.3597447	9.128091867	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
OR7E4P	0	1.659653067	1.111172731
SMIM35	0	2.4894796	0
RRM1-AS1	1.100642416	0	2.222345463
ENSG0000	0	0.829826533	0
WTAPP1	4.402569665	1.659653067	2.222345463
GATD1-DT	1.100642416	17.4263572	1.111172731
WIZP1	13.207709	1.659653067	51.11394565
OR4A50P	0	0.829826533	0
OR8G5	4.402569665	3.319306133	4.444690926
ENSG0000	3.301927249	4.9789592	0
EID1	906.929351	769.2491964	483.3601382
ANKRD33	0	0.829826533	3.333518194
ENSG0000	0	4.149132667	1.111172731
OR52B2	2.201284833	9.9579184	10.00055458
ENSG0000	0	0.829826533	0
OR4C7P	2.201284833	1.659653067	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	2.222345463
LINC0275(	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
TMEM123	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	2.222345463
NOX5	4.402569665	4.149132667	0
MTCO1P1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ASS1P13	0	0.829826533	0
PATL1-DT	1.100642416	0.829826533	0
NDUFAF2	1.100642416	3.319306133	1.111172731
ENSG0000	0	0	1.111172731
LINC0276	0	0.829826533	0

ENSG0000	5.503212081	0	0
CYCSP25	0	2.4894796	0
AKTIPP3	0	1.659653067	0
RDXP1	1.100642416	2.4894796	3.333518194
ENSG0000	6.603854498	7.4684388	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
NASPP1	3.301927249	2.4894796	10.00055458
HCAR3	2.201284833	9.128091867	2.222345463
TBX5-AS1	2.201284833	0	3.333518194
ENSG0000	2.201284833	2.4894796	0
LINC0273(	1.100642416	0	0
PCDHA3	0	0.829826533	0
RSF1-IT1	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	13.33407278
LINC0254	1.100642416	0	1.111172731
LINC0271	1.100642416	0	0
ENSG0000	2.201284833	0	0
EBLN2	59.43469048	42.3211532	37.77987287
OR8G3P	0	9.9579184	0
ENSG0000	2.201284833	6.638612267	0
TTC36-AS	9.905781747	8.298265334	38.8910456
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
SIGLEC10	0	4.149132667	14.44524551
ENSG0000	1.100642416	0	0
CD44-AS1	4.402569665	0	0
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	9.128091867	6.667036389
ENSG0000	1.100642416	0	0
SMIM14-D	4.402569665	7.4684388	2.222345463
ENSG0000	1.100642416	0.829826533	0
B4GAT1-D	6.603854498	7.4684388	5.555863657
ENSG0000	2.201284833	0	0
PRSS23-AS	1.100642416	4.149132667	0
ENSG0000	0	0	17.7787637
ENSG0000	0	0.829826533	0
OR56A7P	0	2.4894796	4.444690926
ENSG0000	4.402569665	6.638612267	8.889381852
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	0.829826533	1.111172731
CARD18	5.503212081	1.659653067	11.11172731

LINC0295	0	0.829826533	0
UVRAG-D	1.100642416	0	0
ENSG0000	6.603854498	0.829826533	0
OR8A2P	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0268	0	2.4894796	0
ENSG0000	1.100642416	0	0
DPP3-DT	7.704496914	24.06496947	10.00055458
ENSG0000	0	0.829826533	0
CD44-DT	1.100642416	0	0
NPIPB8	3.301927249	5.808785734	10.00055458
ENSG0000	5.503212081	2.4894796	0
ENSG0000	0	0	2.222345463
POLR2M	18.71092108	26.55444907	5.555863657
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
MRGPRX5	1.100642416	0	1.111172731
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
B3GAT1-D	3.301927249	6.638612267	0
RPA2P3	0	0.829826533	5.555863657
LINC0273	0	0	1.111172731
OR7E1P	0	0.829826533	3.333518194
ENSG0000	3.301927249	0.829826533	0
ZNF252P-A	7.704496914	6.638612267	1.111172731
FDXACB1	31.91863007	43.15097974	47.78042745
UNC93B6	0	0	2.222345463
ENSG0000	0	0	2.222345463
BRWD1-A	3.301927249	9.128091867	0
TRAV1-1	7.704496914	0	0
MIR9-3HG	5.503212081	9.128091867	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	2.222345463
OR10G2	2.201284833	2.4894796	10.00055458
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	3.333518194
RAB44	15.40899383	15.76670413	11.11172731
LINC0295	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
C10orf88B	3.301927249	64.7264696	0
ENSG0000	0	1.659653067	3.333518194

ENSG0000	0	0.829826533	0
PABPC1P4	37.42184215	14.9368776	26.66814555
ENSG0000	3.301927249	9.128091867	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	8.889381852
LINC0296	0	44.8106328	4.444690926
ENSG0000	3.301927249	8.298265334	5.555863657
RERG-AS1	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
LINC0270	2.201284833	0.829826533	0
ENSG0000	3.301927249	4.149132667	8.889381852
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
TRIL	99.05781747	22.4053164	31.11283648
LINC0238	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	3.319306133	0
OR4D2	0	0.829826533	0
LINC0246	1.100642416	0	0
SNHG1	17.61027866	43.98080627	1.111172731
TDGP1	31.91863007	231.5216028	17.7787637
IFNG-AS1	2.201284833	0.829826533	0
HNRNPAE	2.201284833	3.319306133	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
GNAI2P1	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	16.66759097
LINC0242	0	6.638612267	0
MRPS18C	1.100642416	0	0
LINC0274	1.100642416	2.4894796	0
ENSG0000	8.80513933	1.659653067	2.222345463
ENSG0000	1.100642416	0	0
RMST	22.01284833	103.7283167	0
OR6J1	11.00642416	17.4263572	10.00055458
ENSG0000	2.201284833	0	17.7787637
KRT8P11	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
KLRC4-KI	2.201284833	0.829826533	0
TIFAB	2.201284833	0.829826533	7.77820912
ENSG0000	1.100642416	3.319306133	14.44524551
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	22.01284833	36.51236747	15.55641824
ENSG0000	2.201284833	0	0

KDM4F	2.201284833	0.829826533	10.00055458
ENSG0000	0	2.4894796	0
PXN-AS1	30.81798766	40.66150013	37.77987287
ENSG0000	0	0	2.222345463
ENSG0000	0	0	1.111172731
DENND5B	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	14.30835141	11.61757147	4.444690926
PRECSIT	1.100642416	4.9789592	2.222345463
PABPN1P2	0	0.829826533	5.555863657
FUNDC2P	2.201284833	19.08601027	2.222345463
ENSG0000	2.201284833	0	0
NDFIP1P1	0	4.149132667	0
ENSG0000	2.201284833	3.319306133	1.111172731
RPL12P46	0	0	1.111172731
CCND2-AS	2.201284833	0	5.555863657
ENSG0000	0	1.659653067	0
PIWIL4-AS	0	3.319306133	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	2.222345463
ENSG0000	0	0.829826533	0
GAPDH-D	0	1.659653067	0
HADHAP2	0	4.9789592	10.00055458
CYP2A6	4.402569665	1.659653067	0
ENSG0000	3.301927249	8.298265334	0
PUS1-AS1	0	1.659653067	0
PSMC1P9	3.301927249	2.4894796	0
ENSG0000	0	0	2.222345463
LINC0282	0	1.659653067	0
ARAP1-AS	0	0.829826533	0
ENSG0000	0	1.659653067	0
ELOCP31	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	2.222345463
CBX3P4	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
LINC0244	1.100642416	0	0
PAPPA-AS	20.91220591	34.8527144	8.889381852
COA8	85.85010847	107.8774493	127.7848641
C12orf71B	2.201284833	0.829826533	4.444690926
TRAPPC2I	80.34689639	128.6231127	27.77931829

DNAAF4	6.603854498	8.298265334	0
ENSG0000	0	1.659653067	0
A2MP1	0	0.829826533	0
ENSG0000	1.100642416	0	0
URB1-AS1	2.201284833	25.72462253	0
ENSG0000	3.301927249	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
ZNF432	465.5717421	463.0432056	376.687556
SBNO1-AS	2.201284833	2.4894796	0
ENSG0000	0	0	1.111172731
LINC0244	2.201284833	3.319306133	0
ENSG0000	41.82441182	13.27722453	62.22567296
LINC0115	0	0.829826533	0
LINC0094	3.301927249	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	39.8316736	0
ITFG2-AS1	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
ATF4P4	0	2.4894796	3.333518194
ENSG0000	3.301927249	0	0
TAS2R30	4.402569665	4.9789592	0
DPPA4P3	3.301927249	1.659653067	0
OOEPP2	1.100642416	0	0
ENSG0000	0	0.829826533	0
TSPAN9-I	4.402569665	4.149132667	0
ENSG0000	0	0.829826533	0
TMEM167	2.201284833	1.659653067	0
SKP1P2	2.201284833	0	4.444690926
ZNF10	239.9400468	365.1236747	381.1322469
ZNF486	104.5610295	326.9516541	22.22345463
SMIM3	44.02569665	31.53340827	64.44801842
SUPT16HI	33.01927249	85.47213294	44.44690926
ENSG0000	2.201284833	1.659653067	4.444690926
ENSG0000	1.100642416	0	7.77820912
ENSG0000	1.100642416	0	1.111172731
USP30-AS	4.402569665	1.659653067	0
HMBS	36.32119974	60.57733694	35.55752741
METTL8P	0	29.04392867	15.55641824
ENSG0000	1.100642416	0	0
ATP6V1E1	6.603854498	7.4684388	3.333518194
ZNF225	321.3875856	185.8811435	235.5686191
ENSG0000	1.100642416	3.319306133	0

NDUFA5P	0	0	1.111172731
ENSG0000	0	0	2.222345463
CADM1-A	0	1.659653067	0
ENSG0000	0	3.319306133	1.111172731
NIFKP3	0	2.4894796	0
ENSG0000	5.503212081	0	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	0	0.829826533	2.222345463
OR8R1P	0	0	2.222345463
RBISP3	3.301927249	0	0
HSPA8P5	5.503212081	1.659653067	1.111172731
ENSG0000	0	4.149132667	0
LINC0237	0	1.659653067	0
MRPS35-D	1.100642416	0	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
RPL41P5	3.301927249	2.4894796	3.333518194
ASIC5	16.50963624	0.829826533	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	35.68254093	3.333518194
OSBPL9P4	3.301927249	0.829826533	0
LINC0255	0	4.149132667	0
ENSG0000	0	3.319306133	0
TAS2R31	0	0.829826533	0
DNAJB6P5	0	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	18.71092108	32.3632348	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	1.111172731
DND1	6.603854498	4.9789592	15.55641824
ENSG0000	2.201284833	2.4894796	1.111172731
YWHABP2	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	0	0
MRGPRF-	2.201284833	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
FOLR1P1	0	0	1.111172731
POLG2	263.0535375	278.8217152	295.5719466
ENSG0000	2.201284833	4.149132667	2.222345463
ENSG0000	0	0.829826533	0
LINC0236	0	0	1.111172731

TRAV1-2	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
OR13A1	0	1.659653067	0
NLRP9P1	3.301927249	2.4894796	4.444690926
LINC0239(	0	0.829826533	0
ENSG0000	13.207709	41.49132667	13.33407278
ENSG0000	0	3.319306133	1.111172731
LINC0239:	1.100642416	0	0
ENSG0000	0	2.4894796	0
AK6P1	2.201284833	0.829826533	0
ADGRA3P	19.81156349	32.3632348	45.55808199
ENSG0000	4.402569665	29.04392867	4.444690926
ZBTB11-A	14.30835141	11.61757147	62.22567296
PDE2A-AS	2.201284833	0.829826533	7.77820912
LINC0196:	0	0.829826533	0
LINC0244:	2.201284833	0	1.111172731
RERG-IT1	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0236:	1.100642416	0	0
CLEC12B	3.301927249	0.829826533	0
ENSG0000	19.81156349	133.6020719	3.333518194
ENSG0000	9.905781747	48.12993894	22.22345463
ZNF350	1083.032138	399.1465625	316.6842285
ENSG0000	0	0.829826533	0
STX5-DT	31.91863007	9.9579184	17.7787637
ENSG0000	0	0	1.111172731
TMEM132	0	1.659653067	0
ENTR1P1	1.100642416	0	0
ENSG0000	0	0	1.111172731
CSGALNA	2.201284833	0	0
PGA5	2.201284833	1.659653067	0
BTG1P1	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0295-	1.100642416	0	0
RBBP4P5	0	3.319306133	0
ENSG0000	0	0.829826533	0
KDM2B-D	6.603854498	3.319306133	2.222345463
ARPC3P3	2.201284833	13.27722453	2.222345463
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
PLBD1-AS	39.62312699	5.808785734	2.222345463
ZNF253	467.7730269	449.7659811	203.3446099

SRSF8BP	2.201284833	0	0
KLRF2	1.100642416	4.149132667	10.00055458
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	1.659653067	0
C17orf100	13.207709	39.00184707	78.89326393
ENSG0000	0	0.829826533	0
ENSG0000	0	8.298265334	2.222345463
CAPNS2	3.301927249	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
TPT1P12	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	4.444690926
CCND2P1	0	0	1.111172731
TCP1P3	0	2.4894796	2.222345463
KNOP1P1	0	0	2.222345463
SLC5A8	0	0.829826533	0
PDE3A-AS	2.201284833	0.829826533	1.111172731
ENSG0000	3.301927249	0	0
PSMC1P8	0	0	1.111172731
IQSEC3P1	1.100642416	0	0
ENSG0000	7.704496914	4.9789592	2.222345463
ENSG0000	1.100642416	0	1.111172731
ADGRA1-A	0	1.659653067	1.111172731
ENSG0000	0	4.149132667	0
KRT17P8	0	0.829826533	0
PPP1R14B	0	0.829826533	0
TMEM109	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	11.61757147	0
ENSG0000	0	3.319306133	3.333518194
LIMS3	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	1.111172731
LINC02378	0	4.9789592	0
LINC02955	1.100642416	2.4894796	0
ENSG0000	5.503212081	0	4.444690926
GPR142	1.100642416	20.74566333	15.55641824
HP	6.603854498	9.128091867	3.333518194
ENSG0000	20.91220591	58.91768387	2.222345463
ENSG0000	0	1.659653067	0
RARS1P1	0	2.4894796	0

ARHGEF1	5.503212081	1.659653067	11.11172731
ENSG0000	2.201284833	1.659653067	6.667036389
SRSF3P1	1.100642416	0.829826533	5.555863657
LINC0241	0	4.149132667	0
PRPF19-D	2.201284833	1.659653067	0
LINC0228	1.100642416	0	0
C11orf97	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0270	0	0.829826533	0
RPEP6	0	0.829826533	0
ENSG0000	8.80513933	2.4894796	0
MIR200CH	11.00642416	7.4684388	0
ENSG0000	1.100642416	0	0
DENND11	6.603854498	30.70358173	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
LSM14A	46.22698148	268.0339703	50.00277291
ENSG0000	0	0.829826533	0
NHLRC4	4.402569665	4.9789592	6.667036389
OR4F28P	3.301927249	0.829826533	52.22511838
OR11H12	5.503212081	1.659653067	14.44524551
EEF1B2P4	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
CLLU1	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
ODC1-DT	1.100642416	7.4684388	2.222345463
LINC0287	2.201284833	0	0
TAS2R38	2.201284833	0	0
NUBPL-D	1.100642416	0	0
MED15P6	0	0	1.111172731
TMPO-AS	4.402569665	19.9158368	3.333518194
ENSG0000	2.201284833	3.319306133	1.111172731
ENSG0000	16.50963624	31.53340827	10.00055458
ENSG0000	51.73019357	43.98080627	42.22456379
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	5.808785734	2.222345463
ENSG0000	1.100642416	2.4894796	0
LINC0229	0	2.4894796	0
ENSG0000	0	0.829826533	0
LINC0238	1.100642416	0	0
ENSG0000	1.100642416	0	0
HNRNPA1	0	0.829826533	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0

GATC	78.14561156	131.1125923	85.56030032
LNCOG	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	8.80513933	3.319306133	32.22400921
ENSG0000	0	1.659653067	0
LINC0161	67.13918739	9.128091867	13.33407278
PARK7P1	26.41541799	9.9579184	3.333518194
PHB1P19	6.603854498	3.319306133	2.222345463
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	2.4894796	0
LINC0238	0	1.659653067	0
SLC38A4-	26.41541799	15.76670413	1.111172731
ZNF271P	25.31477557	75.51421454	6.667036389
KIRREL3-	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	9.128091867	20.00110917
PRMT5-D	2.201284833	4.149132667	4.444690926
ENSG0000	0	0.829826533	0
H3P35	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	9.905781747	4.149132667	2.222345463
FAHD2P1	3.301927249	0	0
CNPY2-AS	9.905781747	8.298265334	0
ENSG0000	4.402569665	9.128091867	3.333518194
ENSG0000	1.100642416	0.829826533	0
ZBED6	16.50963624	4.9789592	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
RACGAP1	1.100642416	5.808785734	1.111172731
HNRNPA1	1.100642416	0.829826533	0
MGAM	12.10706658	208.2864599	53.33629111
TNS2-AS1	147.4860838	209.9461129	32.22400921
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
MIRLET7I	18.71092108	19.08601027	2.222345463
ENSG0000	0	0.829826533	0
VENTXP3	0	0.829826533	0
FNTB	29.71734524	53.10889814	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0

ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	4.149132667	7.77820912
ENSG0000	19.81156349	0.829826533	0
KRT126P	2.201284833	0	0
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	0	0
OR6C73P	0	0	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
RPAP3-DT	9.905781747	14.9368776	30.00166375
ENSG0000	25.31477557	0.829826533	5.555863657
LRIG3-DT	0	2.4894796	0
ZNF878	5.503212081	53.93872467	26.66814555
PHLDA1-A	3.301927249	4.149132667	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ELOCP32	1.100642416	0	0
PPFIA2-AS	1.100642416	0.829826533	0
ENSG0000	0	8.298265334	0
ENSG0000	1.100642416	5.808785734	0
LINC0115	0	0.829826533	0
ENSG0000	0	0	5.555863657
KRT73-AS	0	0	1.111172731
GLIPR1-A	3.301927249	8.298265334	0
PAFAH1B	0	0.829826533	0
LINC0229	2.201284833	0	0
ENSG0000	5.503212081	2.4894796	1.111172731
ENSG0000	46.22698148	126.9634596	56.6698093
SFTA3.1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
BICD1-AS	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	0.829826533	0
HSPA8P14	1.100642416	1.659653067	0
ENSG0000	2.201284833	1.659653067	6.667036389
ENSG0000	16.50963624	1.659653067	0
HLX-AS1	5.503212081	1.659653067	4.444690926
ENSG0000	0	0.829826533	0
LINC0229	3.301927249	0	0
PPP1R12A	2.201284833	6.638612267	0
ENSG0000	1.100642416	0.829826533	0
GSTP1P1	0	0	3.333518194

HSPD1P4	2.201284833	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
LINC0060	1.100642416	0	0
ENSG0000	1.100642416	0	0
ZNF625	6.603854498	4.9789592	1.111172731
GALNT4	0	0.829826533	0
LINC0235	0	2.4894796	0
OVCH1-A	3.301927249	12.447398	8.889381852
ENSG0000	3.301927249	0	2.222345463
ENSG0000	24.21413316	11.61757147	5.555863657
ENSG0000	3.301927249	0	1.111172731
ENSG0000	0	0	7.77820912
PSMA3-A	134.2783748	178.4127047	22.22345463
ENSG0000	0	9.128091867	0
ENSG0000	0	0.829826533	0
G2E3-AS1	0	9.9579184	1.111172731
C12orf75-	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ADCY6-D	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	1.111172731
KRT7-AS	6.603854498	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
BTBD10P1	1.100642416	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	29.71734524	10.78774493	1.111172731
ENSG0000	1.100642416	0	0
UHRF1BP	0	1.659653067	0
GIHCG	2.201284833	7.4684388	0
LBX2-AS1	8.80513933	4.149132667	0
ENSG0000	0	3.319306133	0
INAFM1	18.71092108	30.70358173	116.6731368
ENSG0000	2.201284833	1.659653067	4.444690926
CPNE8-AS	0	0.829826533	0
ILF2P2	0	0	2.222345463
LINC0239	0	0.829826533	0
CNPY2	31.91863007	16.59653067	30.00166375
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
LINC0238	0	1.659653067	0
KRT18P20	0	0.829826533	0
LINC0240	0	3.319306133	0
ENSG0000	0	0.829826533	0
LINC0239	1.100642416	0.829826533	0
ST13P3	1.100642416	2.4894796	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
EIF4A1P4	1.100642416	1.659653067	12.22290005
FNBP1P1	11.00642416	19.08601027	0
MRS2P2	0	0	1.111172731
PIGAP1	6.603854498	29.04392867	4.444690926
ENSG0000	0	0.829826533	0
MYL6B-A	2.201284833	4.9789592	4.444690926
ENSG0000	6.603854498	0.829826533	0
PRANCR	31.91863007	19.08601027	5.555863657
TBX3-AS1	3.301927249	3.319306133	0
C1GALT1I	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	5.555863657
ENSG0000	7.704496914	2.4894796	0
PHLDA1-I	1.100642416	3.319306133	0
NOVA1-D	0	0.829826533	0
ENSG0000	0	0	8.889381852
HNRNPA3	6.603854498	14.10705107	14.44524551
ENSG0000	0	1.659653067	0
CASC18	0	0.829826533	0
C12orf42-A	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	0.829826533	20.00110917
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	3.333518194
LINC0215	2.201284833	0	0
EEF1A1P1	0	0	1.111172731
LINC0225	0	0.829826533	0

DDN-AS1	2.201284833	0	0
ENSG0000	1.100642416	1.659653067	6.667036389
CUX1	1384.60816	804.9317374	948.9415126
LINC0241	1.100642416	0	0
TEN1	0	0.829826533	0
P2RX5-TA	2.201284833	2.4894796	22.22345463
ENSG0000	13.207709	0.829826533	1.111172731
NOP56P3	2.201284833	0	0
QRSL1P3	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0230	2.201284833	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
R3HDM2-I	0	0.829826533	0
ENSG0000	4.402569665	0	0
HMGA1P3	1.100642416	0.829826533	0
ENSG0000	3.301927249	0	0
HIGD1AP1	1.100642416	0	0
TUBA1B-A	22.01284833	9.9579184	20.00110917
LINC0245	2.201284833	0.829826533	1.111172731
ENSG0000	5.503212081	0.829826533	21.1122819
NF1P4	1.100642416	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
SNX5P2	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	2.222345463
PPP1R12A	4.402569665	0	0
CD63-AS1	5.503212081	4.149132667	0
BCDIN3D-	7.704496914	19.08601027	3.333518194
ENSG0000	1.100642416	3.319306133	0
ARL2BPP2	1.100642416	0	0
ENSG0000	9.905781747	34.8527144	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	0	0	4.444690926
ARHGAP4	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
OR9A4	6.603854498	68.04577574	41.11339106
ENSG0000	0	136.921378	0
GPR84-AS	2.201284833	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	7.704496914	5.808785734	31.11283648
LINC0228	1.100642416	0	0

ATXN2-AS	1.100642416	3.319306133	0
LINC0282	0	0.829826533	0
MAP1LC3	9.905781747	16.59653067	34.44635467
ENSG0000	6.603854498	39.00184707	1.111172731
PPIAP45	1.100642416	0	0
LINC0305	1.100642416	0	0
PPIAP44	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	3.333518194
ENSG0000	2.201284833	0	6.667036389
MKRN9P	4.402569665	142.7301637	108.8949277
ENSG0000	0	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	1.111172731
PRDM4-AS	4.402569665	2.4894796	0
GPR84-AS	2.201284833	0	0
HSPE1P4	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	5.555863657
ENSG0000	0	0.829826533	7.77820912
ENSG0000	6.603854498	3.319306133	1.111172731
LINC0048	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
NKX2-2-A	8.80513933	0.829826533	4.444690926
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	0.829826533	0
LINC0242	0	0.829826533	0
ENSG0000	0	0.829826533	0
CLEC5A	22.01284833	11.61757147	8.889381852
ENSG0000	5.503212081	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	4.402569665	1.659653067	2.222345463
ARHGAP4	0	0.829826533	1.111172731
MTND2P1	0	0.829826533	0
LINC0140	0	2.4894796	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	3.301927249	0	12.22290005
MTCH2P2	0	0	1.111172731
CLUHP8	0	0.829826533	1.111172731
POLR2KP	0	2.4894796	0
CHURC1	108.9635992	115.3458881	77.7820912
BRWD1P2	0	0.829826533	0
ENSG0000	0	0.829826533	0

VASH1-AS	14.30835141	17.4263572	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
C17orf49	3.301927249	2.4894796	0
KLF17P1	3.301927249	0	2.222345463
ENSG0000	2.201284833	0	10.00055458
ENSG0000	3.301927249	2.4894796	4.444690926
ITFG2-AS1	3.301927249	3.319306133	0
TROAP-AS	3.301927249	6.638612267	30.00166375
ENSG0000	8.80513933	8.298265334	0
ENSG0000	2.201284833	0.829826533	0
SNRPF-DT	0	0.829826533	0
ENSG0000	0	0.829826533	0
SYF2P1	1.100642416	0	0
IFITM3P6	1.100642416	0	0
NSA2P2	1.100642416	0.829826533	0
PCNPP1	9.905781747	4.149132667	0
NF1P12	2.201284833	0	0
ENSG0000	3.301927249	6.638612267	2.222345463
RTEL1	18.71092108	21.57548987	2.222345463
ZNF970P	1.100642416	0.829826533	3.333518194
SLC25A3P	0	4.149132667	3.333518194
PAPLN-AS	1.100642416	0.829826533	0
ENSG0000	14.30835141	9.9579184	25.55697282
ENSG0000	0	0	1.111172731
RCCD1-AS	0	1.659653067	0
ENSG0000	2.201284833	10.78774493	2.222345463
ENSG0000	0	0.829826533	0
LINC02318	0	0.829826533	0
ENSG0000	1.100642416	8.298265334	3.333518194
MIR493HG	2.201284833	0.829826533	27.77931829
LINC02320	0	0.829826533	0
ZNF578	63.83726015	63.89664307	165.564737
ENSG0000	4.402569665	2.4894796	11.11172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	0	11.61757147	0
FXNP1	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
RBM8B	1.100642416	2.4894796	3.333518194
PDF	4.402569665	7.4684388	24.44580009
ENSG0000	3.301927249	4.9789592	2.222345463

LINC0064	86.95075089	180.0723577	8.889381852
ENSG0000	0	0	6.667036389
MAD2L1P	12.10706658	24.06496947	13.33407278
ENSG0000	3.301927249	0	0
ENSG0000	4.402569665	1.659653067	3.333518194
ENSG0000	3.301927249	3.319306133	0
EGILA	0	0.829826533	1.111172731
OR11H2	0	1.659653067	0
ENSG0000	1.100642416	4.149132667	1.111172731
PTCD2P1	1.100642416	2.4894796	0
AJUBA-D	23.11349074	0.829826533	3.333518194
OXA1L-D	7.704496914	10.78774493	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
CHMP4BP	13.207709	4.149132667	10.00055458
ENSG0000	5.503212081	1.659653067	40.00221833
ENSG0000	1.100642416	0	0
LINC0231	0	0.829826533	0
LINC0220	4.402569665	5.808785734	0
PPIAP6	0	0.829826533	14.44524551
LINC0064	0	2.4894796	0
SPESP1	105.661672	100.4090105	18.88993643
ENSG0000	0	0	1.111172731
ZFP64P1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
DIO3OS	7.704496914	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
EIF3LP1	2.201284833	2.4894796	1.111172731
LINC0229	0	1.659653067	0
ENSG0000	0	10.78774493	0
ENSG0000	2.201284833	0.829826533	0
LINC0229	0	0.829826533	0
LINC0023	0	3.319306133	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	3.301927249	0	4.444690926
ENSG0000	159.5931504	39.8316736	43.33573653
ENSG0000	6.603854498	47.3001124	3.333518194
ASB9P1	5.503212081	0	4.444690926
LINC0230	1.100642416	0.829826533	2.222345463
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	2.4894796	1.111172731
FKBP1BP1	1.100642416	0.829826533	0

FRMD6-A	5.503212081	9.9579184	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
RHOXF1-	0	0.829826533	0
OR7E106P	0	0.829826533	3.333518194
PCNX4-D	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	0
SPECC1L-	1.100642416	0.829826533	5.555863657
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	6.603854498	10.78774493	0
OR4N1P	0	0.829826533	16.66759097
BLZF2P	2.201284833	1.659653067	0
H1-8P2	0	0.829826533	0
RHOQP1	9.905781747	45.64045934	5.555863657
PTTG4P	1.100642416	0	0
ENSG0000	1.100642416	0	0
RNASE11-	0	2.4894796	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
LINC0150	0	3.319306133	4.444690926
LINC0227	1.100642416	0.829826533	0
METTL5P	0	0.829826533	0
PPIAP4	7.704496914	1.659653067	0
LINC0305	0	4.9789592	2.222345463
ENSG0000	4.402569665	2.4894796	3.333518194
ENSG0000	0	0.829826533	0
SERPINA2	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	4.149132667	0
LINC0162	0	0.829826533	0
ENSG0000	4.402569665	2.4894796	11.11172731
ENSG0000	0	0.829826533	0
DNAJC19	0	2.4894796	2.222345463
YBX2P2	2.201284833	0	0
LINC0230	0	0	3.333518194
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	9.128091867	0
SERPINE4	1.100642416	2.4894796	0
LINC0229	1.100642416	2.4894796	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	38.52248457	83.81247987	36.66870014
LRFN5-DT	2.201284833	47.3001124	0

RPL21P5	0	1.659653067	1.111172731
BCL2L2-P	2.201284833	1.659653067	0
HSPE1P2	5.503212081	34.02288787	0
ENSG0000	2.201284833	2.4894796	6.667036389
LINC0093(	36.32119974	2.4894796	1.111172731
ENSG0000	2.201284833	0	2.222345463
HSBP1P1	3.301927249	1.659653067	0
SEC23A-A	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ARHGAP5	8.80513933	13.27722453	1.111172731
ENSG0000	0	4.149132667	0
TRIM34	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
HIF1A-AS	2.201284833	9.9579184	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	0.829826533	0
LINC0139	1.100642416	4.9789592	0
ENSG0000	8.80513933	11.61757147	12.22290005
LINC0231	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	4.9789592	0
SALL4P7	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0231	0	0.829826533	0
ENSG0000	12.10706658	0.829826533	2.222345463
LINC0063	8.80513933	7.4684388	0
ENSG0000	1.100642416	0	0
SRP54-AS	7.704496914	18.25618373	2.222345463
SLC25A21	15.40899383	19.08601027	34.44635467
ENSG0000	0	3.319306133	0
CXADRP2	6.603854498	0	0
C20orf141	2.201284833	0	5.555863657
OR11H3P	0	0.829826533	0
PRC1-AS1	26.41541799	16.59653067	3.333518194
AP1G2-AS	222.3297681	37.342194	380.0210742
ENSG0000	2.201284833	8.298265334	0
DDHD1-D	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0232	2.201284833	0.829826533	0
ENSG0000	0	0	4.444690926
PPP1R13B	2.201284833	0.829826533	0

SUB1P2	0	1.659653067	0
BAZ1A-AS	3.301927249	9.9579184	4.444690926
ENO1P2	0	3.319306133	0
H2AZ2P1	57.23340565	47.3001124	24.44580009
LINC0230	6.603854498	112.026582	2.222345463
ENSG0000	23.11349074	87.131786	21.1122819
ENSG0000	2.201284833	0	10.00055458
KIF26A-D	0	2.4894796	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0157	1.100642416	0	0
ENSG0000	0	6.638612267	0
ENSG0000	1.100642416	2.4894796	7.77820912
ENSG0000	3.301927249	30.70358173	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
DIO2-AS1	0	0	1.111172731
RAP1AP	0	0	1.111172731
ENSG0000	0	1.659653067	0
HIF1A-AS	0	1.659653067	0
LINC0156	0	0.829826533	0
CDRT15P1	0	0.829826533	2.222345463
LINC0158	0	0	2.222345463
SEPHS1P2	0	0.829826533	0
CKS1BP1	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
LINC0052	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	3.301927249	0	0
DUX4L27	0	13.27722453	1.111172731
ENSG0000	1.100642416	0.829826533	32.22400921
ADIPOR1I	0	0	1.111172731
ENSG0000	0	0.829826533	0
LINC0305	0	0.829826533	0
ENSG0000	2.201284833	0	0
TRAV33	0	0.829826533	0
RBM25-AS	1.100642416	0.829826533	0
LINC0282	0	4.9789592	0
OR4C13	5.503212081	0	2.222345463
LINC0228	0	0.829826533	0
ENSG0000	0	1.659653067	0

ENSG0000	0	0.829826533	1.111172731
ENSG0000	5.503212081	8.298265334	15.55641824
ENSG0000	1.100642416	4.9789592	0
KRT8P2	0	0	2.222345463
MC1R	0	7.4684388	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	6.638612267	2.222345463
EEF1A1P3	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	20.74566333	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
LINC0229(	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	0
HISLA	14.30835141	0.829826533	1.111172731
EIF4EBP1I	0	0.829826533	2.222345463
FDPSP3	0	4.149132667	0
DUXA	3.301927249	2.4894796	0
ENSG0000	5.503212081	1.659653067	0
TGFB3-AS	1.100642416	8.298265334	10.00055458
ENSG0000	0	0.829826533	0
LINC0232	0	6.638612267	4.444690926
ENSG0000	0	0.829826533	0
CEP95	889.3190724	847.2528906	545.5858111
ENSG0000	4.402569665	2.4894796	1.111172731
SETP2	1.100642416	0	0
ENSG0000	4.402569665	4.149132667	0
TRAV32	2.201284833	0	0
ENSG0000	0	0.829826533	0
LINC0231(	0	0	1.111172731
LINC0269	0	5.808785734	1.111172731
BHLHB9P	2.201284833	4.149132667	0
ZMYND19	1.100642416	0.829826533	0
FOXN3-AS	2.201284833	2.4894796	1.111172731
ENSG0000	1.100642416	1.659653067	0
NPM1P5	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	26.55444907	0
ENSG0000	0	0.829826533	0
MIR3171H	0	4.9789592	0
ENSG0000	8.80513933	4.9789592	0
MIA2-AS1	0	3.319306133	0
ENSG0000	2.201284833	4.9789592	6.667036389

TUBB3	2.201284833	10.78774493	4.444690926
ENSG0000	1.100642416	0	0
LINC0051	0	0	1.111172731
COX4I1P1	1.100642416	1.659653067	0
GALNT16	0	3.319306133	0
ENSG0000	0	0.829826533	2.222345463
HIF1AP1	3.301927249	0.829826533	0
LINC0229	0	0.829826533	0
COX5AP2	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
SF3B4P1	4.402569665	0	2.222345463
MPPE1P1	0	0.829826533	2.222345463
PARP1P2	0	0.829826533	4.444690926
NF1P2	0	0.829826533	0
LINC0230	2.201284833	0	0
DOCK11P	6.603854498	4.149132667	2.222345463
ENSG0000	1.100642416	0	1.111172731
ENSG0000	3.301927249	0	11.11172731
ENSG0000	0	0.829826533	0
TPRX2	0	0.829826533	1.111172731
NUP50P1	0	3.319306133	0
ENSG0000	3.301927249	1.659653067	10.00055458
ENSG0000	2.201284833	10.78774493	0
TPRX1P1	0	0.829826533	0
DNAJC8P1	5.503212081	5.808785734	0
LINC0052	0	0.829826533	0
TVP23C-C	4.402569665	3.319306133	4.444690926
FPGT-TNN	6.603854498	19.9158368	0
ENSG0000	1.100642416	1.659653067	0
ENSAP2	55.03212081	49.789592	31.11283648
ENSG0000	0	8.298265334	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
RRAGAP1	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	2.222345463
CHORDC2	0	1.659653067	0
HNRNPUP	5.503212081	4.149132667	7.77820912
ENSG0000	0	0.829826533	0
DUXAP1	0	0.829826533	0
THRAP3P2	0	0.829826533	0
PEBP1P1	2.201284833	0	0

ENSG0000	0	4.9789592	0
MIDEAS-A	2.201284833	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
LINC00639	5.503212081	4.9789592	10.00055458
ENSG0000	2.201284833	1.659653067	0
POC1B-GA	3.301927249	0.829826533	0
PTBP1P	3.301927249	3.319306133	8.889381852
ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	4.402569665	9.9579184	0
KIAA1143	28.61670282	23.23514293	7.77820912
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
SEPTIN7P	1.100642416	0	0
LINC00511	2.201284833	0.829826533	0
TRAV30	1.100642416	0	3.333518194
ENSG0000	1.100642416	0	4.444690926
ENSG0000	0	0.829826533	0
SHLD2P2	3.301927249	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
COILP1	4.402569665	4.149132667	3.333518194
SMARCE1	0	0.829826533	10.00055458
ENSG0000	0	0	1.111172731
PTCSC3	0	19.9158368	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	2.222345463
LINC02304	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
HSPA2-AS	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
LRP1-AS	0	1.659653067	11.11172731
LINC00648	0	40.66150013	1.111172731
LINC00924	3.301927249	0	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
RANBP20	52.83083598	60.57733694	14.44524551
SIPA1L1-A	1.100642416	4.149132667	0
CAP2P1	5.503212081	2.4894796	4.444690926
ENSG0000	0	4.149132667	0
MAP3K9-I	12.10706658	37.342194	1.111172731
TTC7B-AS	3.301927249	1.659653067	0
DDX18P1	1.100642416	0.829826533	0

NMNAT1I	0	1.659653067	0
ENSG0000	1.100642416	0	0
SNRPA1-D	4.402569665	0.829826533	13.33407278
ENSG0000	0	0	7.77820912
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
HMBOX1-	1.100642416	5.808785734	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	0	0
PRKXP1	41.82441182	7.4684388	32.22400921
ITGB3	14.30835141	31.53340827	2.222345463
ENSG0000	4.402569665	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	11.00642416	144.3898168	13.33407278
LINC00928	0	0	3.333518194
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
HNRNPA1	1.100642416	0	0
ENSG0000	0	0	4.444690926
ENSG0000	5.503212081	9.128091867	2.222345463
ANKRD34	1.100642416	1.659653067	0
CTXN2-AS	0	4.9789592	0
GOLGA8V	1.100642416	4.149132667	2.222345463
ENSG0000	4.402569665	0	0
LINC0285	1.100642416	0	0
USP3-AS1	30.81798766	19.08601027	14.44524551
VPS13C-D	1.100642416	0	0
ENSG0000	3.301927249	0.829826533	0
NPM1P42	0	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	11.00642416	2.4894796	0
ALDH1A2	1.100642416	0.829826533	6.667036389
ENSG0000	0	0	4.444690926
BUB1B-PA	6.603854498	1.659653067	0
ENSG0000	1.100642416	0	0

ZNF710-A	30.81798766	16.59653067	4.444690926
ENSG0000	0	0	3.333518194
IGHV2OR	0	0.829826533	2.222345463
ENSG0000	6.603854498	0	0
ZHX1-C8o	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	9.128091867	0
ACTG1P1	2.201284833	0.829826533	0
ENSG0000	3.301927249	5.808785734	1.111172731
HMGN1P1	5.503212081	5.808785734	0
JDP2-AS1	6.603854498	11.61757147	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	26.41541799	6.638612267	0
INAFM2	19.81156349	18.25618373	14.44524551
ST20-MTF	0	0.829826533	0
LINC0059(	0	0.829826533	0
ENSG0000	6.603854498	2.4894796	2.222345463
LINC0308(	1.100642416	0	0
ENSG0000	1.100642416	0	0
TMC3-AS1	23.11349074	25.72462253	11.11172731
ENSG0000	12.10706658	2.4894796	0
ENSG0000	0	0.829826533	0
APPBP2-D	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
SLC30A4-A	3.301927249	2.4894796	1.111172731
ENSG0000	0	0.829826533	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	11.00642416	6.638612267	0
ENSG0000	13.207709	29.04392867	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	4.402569665	0	0
NDUFB4P	1.100642416	1.659653067	1.111172731
ENSG0000	1.100642416	0	17.7787637
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
DCAF13P3	8.80513933	2.4894796	1.111172731
MTND5P3	0	3.319306133	0
LINC0289:	0	0.829826533	0
ENSG0000	0	0	2.222345463
GH1	0	0	3.333518194

ENSG0000	2.201284833	2.4894796	3.333518194
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	3.301927249	5.808785734	1.111172731
ENSG0000	9.905781747	0.829826533	5.555863657
ENSG0000	2.201284833	0.829826533	0
BMF-AS1	0	0.829826533	0
ENSG0000	1.100642416	0	0
HNRNPA1	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0288	0	0.829826533	0
HNRNPCP	5.503212081	0	18.88993643
ENSG0000	0	1.659653067	2.222345463
KIF23-AS1	11.00642416	9.128091867	7.77820912
UBE2Q2P2	0	0.829826533	0
CERS3-AS	7.704496914	0	0
THTPA	61.63597531	22.4053164	123.3401732
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
OR4N3P	1.100642416	0	0
POU2F2-A	2.201284833	2.4894796	2.222345463
ENSG0000	2.201284833	0	0
LINC0183	1.100642416	65.55629614	0
NPM1P43	0	0.829826533	0
MRPL15P1	5.503212081	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
NIFKP8	1.100642416	0	0
ENSG0000	4.402569665	4.9789592	2.222345463
WBP1LP5	0	0.829826533	0
ADNP-AS1	0	0	1.111172731
ENSG0000	0	0.829826533	0
MGC1588	0	0	1.111172731
LINC0256	1.100642416	1.659653067	0
ANP32BP3	0	0.829826533	0
CPEB1-AS	5.503212081	0.829826533	0
AHCYP7	1.100642416	0	0
NDUFAF4	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
KRT8P9	0	0	3.333518194

SYNM-AS	2.201284833	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
LINC0225	0	0.829826533	0
DUT-AS1	2.201284833	14.10705107	4.444690926
IGHV3OR	0	0.829826533	0
TFDP1P3	0	0.829826533	0
MRPL46	29.71734524	27.3842756	26.66814555
ARNT2-D	9.905781747	14.10705107	4.444690926
GEMIN8P	0	0.829826533	0
TPM1-AS	1.100642416	0.829826533	0
KRT8P24	0	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
HNRNPA1	4.402569665	0	0
ANP32AP	3.301927249	3.319306133	3.333518194
ENSG0000	1.100642416	2.4894796	3.333518194
SLC28A2-	1.100642416	14.9368776	7.77820912
ENSG0000	1.100642416	0	0
LINC0005	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	17.61027866	13.27722453	4.444690926
RPL21P12	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	4.149132667	6.667036389
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
MESTP2	0	4.9789592	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	5.503212081	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
BLID	13.207709	3.319306133	14.44524551
LINC0149	0	0.829826533	0
NMNAT1I	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
CERNA1	4.402569665	5.808785734	0
TYRO3P	34.11991491	10.78774493	11.11172731
ALDH1A3	13.207709	3.319306133	20.00110917
ENSG0000	0	0.829826533	0
RBM17P4	9.905781747	3.319306133	4.444690926

ENSG0000	3.301927249	0	0
ENSG0000	2.201284833	0	0
PRELID1P	1.100642416	0	2.222345463
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	0.829826533	22.22345463
ENSG0000	35.22055732	10.78774493	26.66814555
LINC0158	0	0.829826533	0
EEF1A1P2	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
FABP5P9	8.80513933	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ST20-AS1	5.503212081	2.4894796	23.33462736
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
PIGHP1	1.100642416	0.829826533	8.889381852
UBE2Q2P1	1.100642416	0.829826533	0
ENSG0000	1.100642416	4.9789592	1.111172731
ENSG0000	3.301927249	0	0
ISL1-DT	24.21413316	3.319306133	0
LINC0225	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	0
LINGO1-A	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	8.889381852
MTCYBP2	0	2.4894796	0
ENSG0000	0	0.829826533	0
IQCH-AS1	31.91863007	19.9158368	4.444690926
RPL7AP75	1.100642416	0	0
ENSG0000	0	6.638612267	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	4.444690926
IGHV3OR	5.503212081	0	3.333518194
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
IDH2-DT	0	0.829826533	0
LINC0122	2.201284833	3.319306133	0
ENSG0000	11.00642416	32.3632348	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0

FBN1-DT	0	1.659653067	1.111172731
HSP90B2P	7.704496914	4.9789592	6.667036389
ENSG0000	1.100642416	1.659653067	7.77820912
ENSG0000	2.201284833	0.829826533	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
LINC0228	3.301927249	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	5.808785734	0
LINC0158	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	6.603854498	0.829826533	0
CRTC3-AS	2.201284833	9.9579184	0
ENSG0000	0	0.829826533	0
ENSG0000	13.207709	0	0
ENSG0000	2.201284833	0.829826533	0
HSPE1P3	1.100642416	1.659653067	0
NSA2P4	0	0	2.222345463
TUBAP11	3.301927249	1.659653067	2.222345463
ENSG0000	3.301927249	4.9789592	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	2.201284833	2.4894796	0
ZFHX3-AS	25.31477557	44.8106328	88.89381852
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
EIF5-DT	1.100642416	2.4894796	0
ENSG0000	2.201284833	12.447398	0
HMGB1P6	35.22055732	71.36508187	18.88993643
ENSG0000	2.201284833	0	0
LINC0225	1.100642416	0	0
LINC0210	1.100642416	0	0
UAP1-DT	2.201284833	0	0
ANP32BP1	5.503212081	0	2.222345463
ENSG0000	2.201284833	2.4894796	0
MARCHF6	3.301927249	27.3842756	10.00055458
SLC22A31	4.402569665	46.47028587	1.111172731
CTCF-DT	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
CZIB-DT	2.201284833	0.829826533	0
ENSG0000	0	0	1.111172731

LYPD8	1.100642416	0.829826533	3.333518194
CDK13-DT	3.301927249	5.808785734	1.111172731
ENSG0000	1.100642416	5.808785734	0
LINC0056	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ELOCP2	7.704496914	41.49132667	10.00055458
LINC0156	1.100642416	1.659653067	0
IGHV3OR	0	0.829826533	0
HEATR3-A	4.402569665	0	0
HERC2P10	3.301927249	2.4894796	0
ENSG0000	0	1.659653067	0
RAB43P1	15.40899383	13.27722453	51.11394565
SH3RF3-A	0	4.149132667	0
ENSG0000	5.503212081	13.27722453	1.111172731
ENSG0000	1.100642416	0	0
DYNLRB2	15.40899383	4.149132667	2.222345463
ENSG0000	0	2.4894796	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	2.4894796	0
ZNF778-DT	6.603854498	9.9579184	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	8.889381852
NR4A1AS	0	0.829826533	0
FIGNL2-D	1.100642416	0.829826533	0
ENSG0000	18.71092108	43.15097974	8.889381852
TEDC2-AS	3.301927249	1.659653067	1.111172731
FRG2JP	0	0.829826533	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
AQP7B	5.503212081	11.61757147	22.22345463
HNRNPLP	47.3276239	141.9003372	82.22678213
NDUFA5P	9.905781747	6.638612267	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	0.829826533	1.111172731
ENSG0000	104.5610295	29.8737552	15.55641824
ENSG0000	2.201284833	0	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	0
PKD1-AS1	0	0.829826533	2.222345463
ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	5.503212081	6.638612267	6.667036389
ENSG0000	7.704496914	0.829826533	3.333518194
ZMPSTE24	6.603854498	32.3632348	3.333518194

CDRT7	0	0.829826533	0
ENSG0000	0	0	5.555863657
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	9.905781747	16.59653067	23.33462736
LINC0297	7.704496914	19.08601027	0
IL21R-AS1	4.402569665	4.9789592	26.66814555
RBM15B	1007.087811	767.5895434	800.0443666
ENSG0000	24.21413316	38.17202053	0
ENSG0000	2.201284833	0	0
THSD4-AS	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	47.3276239	34.02288787	47.78042745
LINC0026	0	1.659653067	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	9.9579184	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	16.59653067	0
TGFBR3L	6.603854498	4.9789592	3.333518194
ENSG0000	0	0	5.555863657
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	1.659653067	0
KRBOX5P	0	1.659653067	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
LSM3P5	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	1.111172731
MBTPS1-I	0	1.659653067	0
LINC0199	1.100642416	0.829826533	0
HOXB7	13.207709	48.95976547	22.22345463
ENSG0000	0	0.829826533	0
RPL10P14	1.100642416	0	0
NORAD	932.2441266	1696.165434	127.7848641
LCMT1-AS	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0

ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	15.76670413	0
GOLGA2P	2.201284833	0	0
ENSG0000	1.100642416	9.9579184	0
ENSG0000	6.603854498	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
NSFP1	39.62312699	47.3001124	65.55919115
ENSG0000	3.301927249	9.128091867	2.222345463
MRFAP1P	1.100642416	9.9579184	1.111172731
MIR762HC	7.704496914	24.06496947	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
PCMTD1P	1.100642416	0	0
DDX59-AS	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
AFTPH-DT	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	15.40899383	8.298265334	2.222345463
ENSG0000	0	0	3.333518194
AGBL1-AS	0	0	1.111172731
CA5AP1	0	0	15.55641824
MMP2-AS	0	0.829826533	0
ENSG0000	3.301927249	18.25618373	15.55641824
CSPG4P13	3.301927249	93.77039827	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	1.659653067	26.66814555
CPNE2-DT	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	3.319306133	1.111172731
MTCYBP2	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	3.333518194
LINC0141	0	9.128091867	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	1.111172731

ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
LINC0213	0	0.829826533	0
PPIAP48	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0224	0	1.659653067	0
LINC0284	1.100642416	12.447398	0
ENSG0000	0	1.659653067	0
ENSG0000	4.402569665	0	0
ENSG0000	3.301927249	21.57548987	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
CD2BP2-D	3.301927249	11.61757147	0
CCDC187	6.603854498	709.501686	18.88993643
CDH13-AS	24.21413316	2.4894796	0
FRRS1L	72.64239948	11.61757147	55.55863657
KDM7A-D	22.01284833	21.57548987	1.111172731
ZNRD2-DT	6.603854498	13.27722453	2.222345463
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
PTPN23-D	14.30835141	4.9789592	3.333518194
LINC0253	0	0.829826533	0
ENSG0000	7.704496914	4.149132667	16.66759097
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	2.4894796	0
ENSG0000	11.00642416	19.9158368	1.111172731
ENSG0000	0	0	3.333518194
LINC0216	4.402569665	0	5.555863657
SNHG19	7.704496914	22.4053164	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0256	0	3.319306133	0
ENSG0000	130.9764475	199.9881945	375.5763832
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	12.10706658	7.4684388	0
BMP2K-D	0	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
ITFG1-AS	3.301927249	1.659653067	0
EIF4EBP2	0	1.659653067	0
TPSP2	0	0.829826533	0
TRMT61A	8.80513933	15.76670413	1.111172731

ARMH2	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	7.704496914	24.894796	4.444690926
ENSG0000	5.503212081	31.53340827	1.111172731
ENSG0000	3.301927249	0.829826533	0
ACTG1P1(	0	0.829826533	0
LINC0188	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	3.319306133	0
MRC1	1579.421867	1381.661178	1534.529542
ENSG0000	3.301927249	6.638612267	1.111172731
LINC0298(	0	4.9789592	1.111172731
COX6CP1	7.704496914	11.61757147	0
HSPB9	0	0.829826533	2.222345463
ACTR3BP	0	1.659653067	0
ENSG0000	0	0.829826533	0
TMEM263	0	6.638612267	0
ENSG0000	0	2.4894796	0
ENSG0000	34.11991491	7.4684388	1.111172731
LINC0157(	0	0	1.111172731
HEXA-AS	6.603854498	1.659653067	0
MOCS1P1	1.100642416	0.829826533	6.667036389
ENSG0000	1.100642416	0	0
ENSG0000	0	14.10705107	0
SMG1-DT	2.201284833	0.829826533	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	3.301927249	1.659653067	0
AQP4-AS1	7.704496914	1.659653067	1.111172731
LDC1P	1.100642416	0	0
LINC0056	2.201284833	3.319306133	0
WBP11P1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	6.638612267	1.111172731
ENSG0000	3.301927249	71.36508187	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	2.201284833	0	0
ENSG0000	16.50963624	53.93872467	0
ENSG0000	1.100642416	0.829826533	0

LINC0236	6.603854498	9.128091867	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
SCX	9.905781747	14.10705107	83.33795486
ENSG0000	2.201284833	0.829826533	0
VPS51P1	0	0.829826533	0
LINC0191	1.100642416	0.829826533	0
ATP2A1-A	8.80513933	33.19306133	18.88993643
ENSG0000	1.100642416	0.829826533	0
LCMT1-A	0	2.4894796	0
LINC0213	0	1.659653067	0
TPRKBP2	4.402569665	3.319306133	0
NBAT1	0	0	1.111172731
C16orf95	0	4.149132667	3.333518194
KCNJ18	0	2.4894796	1.111172731
FTLP14	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0.829826533	4.444690926
LINC0129	1.100642416	9.128091867	0
ENSG0000	1.100642416	1.659653067	0
PPIAP49	0	0	1.111172731
ENSG0000	0	2.4894796	0
C2orf69P4	0	1.659653067	0
ENSG0000	0	16.59653067	4.444690926
MYL12BP	0	4.149132667	10.00055458
CISTR	0	0.829826533	0
E2F5-DT	1.100642416	0.829826533	0
ENSG0000	9.905781747	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
BMS1P8	0	0	1.111172731
ENSG0000	0	0.829826533	0
AP1AR-DT	3.301927249	2.4894796	0
FAM157C	7.704496914	9.128091867	4.444690926

ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
COSMOC	2.201284833	1.659653067	0
ENSG0000	4.402569665	14.9368776	2.222345463
ERVK13-1	193.7130653	175.0933985	48.89160018
ENSG0000	0	1.659653067	3.333518194
PPM1L-DT	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	2.222345463
EIF5A2P1	3.301927249	0	0
CDH3-AS1	4.402569665	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
TPST2P1	0	0	1.111172731
ENSG0000	0	5.808785734	0
ENSG0000	0	5.808785734	0
ENSG0000	6.603854498	0	2.222345463
ENSG0000	1.100642416	4.149132667	0
STAM-DT	3.301927249	4.9789592	0
ENSG0000	1.100642416	4.149132667	2.222345463
ENSG0000	0	0.829826533	2.222345463
ENSG0000	30.81798766	3.319306133	1.111172731
FRG2IP	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	6.603854498	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
RPL23AP9	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
RUSF1-DT	0	7.4684388	1.111172731
ENSG0000	1.100642416	0	1.111172731
SNAI3-AS	6.603854498	13.27722453	6.667036389
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
TSPAN5-D	5.503212081	4.149132667	2.222345463
ENSG0000	3.301927249	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	12.10706658	6.638612267	0
ENSG0000	1.100642416	0	0

MIR3147H	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	20.74566333	0
ENSG0000	0	0.829826533	11.11172731
ENSG0000	0	0.829826533	7.77820912
ENSG0000	0	2.4894796	0
ENSG0000	0	17.4263572	0
ENSG0000	4.402569665	3.319306133	7.77820912
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	9.128091867	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
HNRNPA3	1.100642416	0	1.111172731
CYCSP39	2.201284833	0	0
ANKRD20	1.100642416	4.149132667	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	4.402569665	2.4894796	1.111172731
ENSG0000	0	0	1.111172731
LINC0054	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
TBC1D22A	6.603854498	15.76670413	1.111172731
ENSG0000	0	5.808785734	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
ENSG0000	4.402569665	3.319306133	0
VN1R69P	0	0.829826533	0
KLF8P1	0	0	1.111172731
ENSG0000	8.80513933	0	5.555863657
ENSG0000	1.100642416	0	0
TLE7	1.100642416	0	0
ENSG0000	0	1.659653067	0
LINC0055	0	0.829826533	0
ENSG0000	8.80513933	8.298265334	0
ENSG0000	1.100642416	0	0
ITPRID2-D	2.201284833	4.9789592	0
ENSG0000	0	1.659653067	2.222345463
KIF18BP1	1.100642416	0	0
ENSG0000	5.503212081	10.78774493	3.333518194
ENSG0000	5.503212081	8.298265334	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	1.111172731
ACSM5P1	6.603854498	1.659653067	14.44524551

ENSG0000	2.201284833	0	0
CES1P2	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	16.59653067	3.333518194
ENSG0000	0	1.659653067	0
MIR3677H	5.503212081	3.319306133	3.333518194
ENSG0000	3.301927249	0	0
ARHGAP2	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
CASC17	0	1.659653067	0
CEDORA	1.100642416	0	0
LINC0228(	0	0.829826533	0
ENSG0000	8.80513933	6.638612267	3.333518194
ENSG0000	3.301927249	4.149132667	0
KRT8P50	7.704496914	0.829826533	8.889381852
SERTM2	36.32119974	0	0
ENSG0000	0	0.829826533	0
LINC0196	13.207709	21.57548987	0
ENSG0000	1.100642416	20.74566333	0
PAPOLA-I	1.100642416	1.659653067	0
CEROX1	4.402569665	29.04392867	8.889381852
VPS35P1	3.301927249	2.4894796	4.444690926
ENSG0000	0	1.659653067	0
OR4C45	0	4.9789592	0
RARRES2	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
PPIAP47	1.100642416	0.829826533	0
ENSG0000	6.603854498	23.23514293	0
UNGP1	2.201284833	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	44.8106328	0
LINC0196	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
FBXL19-A	14.30835141	16.59653067	4.444690926
ENSG0000	46.22698148	19.08601027	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
NDUFB10	0	0.829826533	0
ENSG0000	1.100642416	5.808785734	1.111172731
ENSG0000	0	1.659653067	1.111172731

VN1R65P	0	0.829826533	0
TAT-AS1	4.402569665	1.659653067	3.333518194
CKBP1	1.100642416	1.659653067	0
ENSG0000	0	0	3.333518194
ENSG0000	7.704496914	4.9789592	3.333518194
ENSG0000	4.402569665	0.829826533	1.111172731
ENSG0000	2.201284833	1.659653067	0
ARLNC1	7.704496914	0	0
ADPGK-A	7.704496914	1.659653067	13.33407278
ENSG0000	1.100642416	0	0
XKR7	3.301927249	130.2827657	6.667036389
SWINGN	0	8.298265334	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	6.603854498	7.4684388	1.111172731
CCPG1	51.73019357	24.894796	11.11172731
ENSG0000	14.30835141	46.47028587	7.77820912
ENSG0000	1.100642416	0.829826533	0
ENSG0000	9.905781747	37.342194	2.222345463
LINC0219	1.100642416	1.659653067	0
LINC0131	5.503212081	6.638612267	0
ENSG0000	0	0.829826533	0
SPCS2P1	0	0.829826533	0
ENSG0000	4.402569665	0	0
MTCH2P4	0	0.829826533	0
LINC0062	3.301927249	0	0
CAPN10-D	4.402569665	14.10705107	5.555863657
LINC0255	0	0.829826533	0
FOXC2-AS	0	0.829826533	0
ENSG0000	3.301927249	12.447398	0
ENSG0000	4.402569665	12.447398	1.111172731
ENSG0000	4.402569665	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	1.659653067	0
ENSG0000	0	1.659653067	0
LINC0306	2.201284833	0	0
ENSG0000	5.503212081	7.4684388	0
LINC0163	0	1.659653067	2.222345463
USP7-AS1	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	2.4894796	0
DOCK9-D	2.201284833	2.4894796	0
ENSG0000	0	1.659653067	0

ENSG0000	1.100642416	0	0
ENSG0000	0	0	11.11172731
ENSG0000	0	1.659653067	0
VPS39-DT	2.201284833	1.659653067	0
LINC0157	11.00642416	35.68254093	0
RARRES2	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
GS1-279B7	0	0.829826533	0
ENSG0000	0	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
MPHOSPH	0	2.4894796	0
SPECC1-D	1.100642416	3.319306133	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
LINC0254	0	0.829826533	0
ENSG0000	0	0	1.111172731
C2orf69P1	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
SULT1A3	2.201284833	0	0
SYNM-AS	25.31477557	2.4894796	60.0033275
ENSG0000	4.402569665	5.808785734	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	7.704496914	7.4684388	0
ENSG0000	7.704496914	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	1.111172731
LINC0251	11.00642416	8.298265334	3.333518194
ZNNT1	15.40899383	29.04392867	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	5.555863657
ENSG0000	7.704496914	16.59653067	4.444690926
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	18.71092108	15.76670413	1.111172731
ENSG0000	4.402569665	4.149132667	0
ENSG0000	0	0	1.111172731
LMO7-AS1	11.00642416	1.659653067	0
TMEM178	114.4668113	301.2270316	108.8949277
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0247	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	5.555863657
RBFADN	2.201284833	19.9158368	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	5.503212081	4.9789592	0
ADAMTS7	3.301927249	0	0
ENSG0000	1.100642416	0	0
EPPK1	1193.096379	1321.083841	981.1655219
ENSG0000	0	0	1.111172731
LINC0198	0	1.659653067	1.111172731
ENSG0000	0	4.9789592	1.111172731
ENSG0000	13.207709	27.3842756	0
ENSG0000	0	0.829826533	2.222345463
DNAJA2-I	0	4.9789592	0
LINC0218	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
SPINT1-AS	13.207709	14.9368776	11.11172731
ENSG0000	1.100642416	2.4894796	0
TFIP11-DT	7.704496914	10.78774493	0
DSP-AS1	3.301927249	23.23514293	0
LINC0291	1.100642416	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
RNF126P1	0	0	1.111172731
CYP4A43I	0	0	2.222345463
UBE2FP2	0	0.829826533	0
TNRC6B-I	0	2.4894796	0
PLA2G10J	0	0	1.111172731
NIFKP4	0	0	1.111172731
ENSG0000	3.301927249	0.829826533	3.333518194
CLEC19A	2.201284833	2.4894796	11.11172731
ENSG0000	13.207709	43.98080627	2.222345463
ENSG0000	0	1.659653067	0
BCAP31P1	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ST3GAL1-	2.201284833	2.4894796	2.222345463
ZNF865	304.8779493	335.2499195	668.9259843
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	0	0
BOP1	157.3918655	414.9132667	376.687556
LINC0212	2.201284833	2.4894796	1.111172731

ENSG0000	1.100642416	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	3.319306133	1.111172731
LINC0175	1.100642416	0	0
ENSG0000	2.201284833	0	0
EFCAB6-D	2.201284833	2.4894796	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ULK4P1	0	0.829826533	0
ATP2C2-A	13.207709	120.3248473	43.33573653
ENSG0000	1.100642416	0.829826533	1.111172731
NUP93-DT	1.100642416	0.829826533	0
GOLGA6C	0	0.829826533	0
ENSG0000	1.100642416	0	0
FIGNL2	12.10706658	14.10705107	18.88993643
ENSG0000	1.100642416	4.149132667	35.55752741
LARP4P	5.503212081	14.10705107	2.222345463
DIS3L-AS1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	121.0706658	58.91768387	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
PPIAP50	0	0	2.222345463
ENSG0000	1.100642416	0	8.889381852
CD24P2	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	12.447398	0
EIF4BP5	0	0.829826533	1.111172731
ENSG0000	3.301927249	3.319306133	0
SMIM47	3.301927249	12.447398	4.444690926
ENSG0000	0	3.319306133	0
ENSG0000	0	3.319306133	8.889381852
ENSG0000	5.503212081	10.78774493	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	25.31477557	7.4684388	21.1122819
PYCARD-A	3.301927249	8.298265334	2.222345463
OTULIN-D	3.301927249	4.9789592	0
MANEA-D	6.603854498	4.149132667	0

ENSG0000	0	0.829826533	0
PECAM1	1209.606016	898.7021356	443.3579198
VPS9D1-A	42.92505424	2.4894796	56.6698093
GOLGA6L	0	0.829826533	0
PDCD6IPP	0	8.298265334	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
MAFTRR	6.603854498	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
HSPE1P5	1.100642416	0	1.111172731
ENSG0000	3.301927249	1.659653067	7.77820912
MAPK8IP3	0	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
HERC2P1	0	0	3.333518194
PSMD7-DT	1.100642416	2.4894796	0
CHEK2P6	0	0.829826533	0
TEN1-CDK	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
CORO1A-A	0	4.149132667	0
MPC1-DT	1.100642416	1.659653067	0
TMEM202	18.71092108	4.149132667	24.44580009
ENSG0000	2.201284833	24.06496947	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
DHX35-DT	2.201284833	1.659653067	0
ENSG0000	2.201284833	2.4894796	1.111172731
LINC02894	6.603854498	47.3001124	1.111172731
GNAO1-AS	0	0.829826533	0
LINC00559	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	3.301927249	1.659653067	0
LINC01735	0	0.829826533	0
LINC01002	9.905781747	6.638612267	0
TUBB8	12.10706658	10.78774493	18.88993643
ENSG0000	2.201284833	1.659653067	2.222345463
ENSG0000	1.100642416	0.829826533	8.889381852
UBE2MP1	6.603854498	25.72462253	12.22290005
COQ7-DT	4.402569665	7.4684388	1.111172731
ENSG0000	6.603854498	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	14.9368776	1.111172731
ENSG0000	8.80513933	4.149132667	0
ENSG0000	0	1.659653067	0

PAN3-AS1	7.704496914	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
BBS7-DT	0	0.829826533	0
ENSG0000	0	16.59653067	0
LINC0168	0	1.659653067	0
ENSG0000	0	3.319306133	4.444690926
ENSG0000	2.201284833	1.659653067	3.333518194
ENSG0000	2.201284833	4.9789592	0
DLGAP1-A	0	0.829826533	0
ABCB10P3	0	0	1.111172731
ENSG0000	4.402569665	15.76670413	1.111172731
ENSG0000	2.201284833	3.319306133	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	9.905781747	6.638612267	0
ENSG0000	6.603854498	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	11.00642416	2.4894796	0
ENSG0000	0	0	1.111172731
SMG1P7	4.402569665	0	2.222345463
EEF1A1P3	0	0	1.111172731
LINC0185	2.201284833	0	0
FSCN1P1	2.201284833	1.659653067	3.333518194
ENSG0000	0	9.128091867	0
AGK-DT	0	2.4894796	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	6.603854498	3.319306133	0
ENSG0000	7.704496914	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
TPBGL	13.207709	34.8527144	8.889381852
PPM1J-DT	0	0	1.111172731
HERC2P8	1.100642416	3.319306133	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	13.207709	0	0
SLC25A1P	0	0	1.111172731
GAN	257.5503254	238.9900416	152.2306642
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
SUB1P3	1.100642416	0	1.111172731
ENSG0000	4.402569665	0	0

YBX3P1	73.74304189	50.61941854	80.00443666
TTC23-AS	20.91220591	1.659653067	2.222345463
LINC0217	1.100642416	0.829826533	0
LINC0260	9.905781747	0.829826533	0
NDUFB10	1.100642416	4.9789592	0
ENSG0000	5.503212081	0	0
PAQR5-DT	0	1.659653067	0
ENSG0000	1.100642416	0	0
LINC0219	0	0.829826533	0
ENSG0000	0	0.829826533	0
CYLD-AS1	1.100642416	2.4894796	0
DISC1FP1	1.100642416	0	2.222345463
ENSG0000	2.201284833	0	1.111172731
GOLGA6L	2.201284833	0.829826533	1.111172731
PIERCE2	93.55460539	46.47028587	15.55641824
ENSG0000	1.100642416	12.447398	0
BEAN1-AS	1.100642416	1.659653067	0
ENSG0000	68.23982981	21.57548987	61.11450023
ECI1-AS1	1.100642416	1.659653067	0
TTC39A-A	13.207709	2.4894796	17.7787637
ENSG0000	2.201284833	12.447398	2.222345463
ENSG0000	0	4.149132667	2.222345463
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
HPR	0	0.829826533	7.77820912
IGHV1OR	0	0.829826533	0
ENSG0000	0	0.829826533	3.333518194
SSTR5-AS	1.100642416	8.298265334	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0	0
FOXF2-DT	1.100642416	0	0
ENSG0000	15.40899383	24.06496947	26.66814555
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	2.4894796	1.111172731
MIR3976H	0	1.659653067	0
GOLGA8S	0	0.829826533	0
LINC0092	0	0	1.111172731
ENSG0000	0	0.829826533	0
AGGF1P8	0	1.659653067	0

ENSG0000	0	1.659653067	0
STAG1-DT	1.100642416	16.59653067	2.222345463
ENSG0000	0	0.829826533	0
LINC0261(	4.402569665	18.25618373	6.667036389
ENSG0000	4.402569665	2.4894796	7.77820912
KRT18P18	1.100642416	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	23.11349074	50.61941854	2.222345463
DDX19A-I	0	10.78774493	0
LINC0165-	0	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	5.808785734	0
ENSG0000	0	25.72462253	0
TCF24	5.503212081	8.298265334	10.00055458
GOLGA8H	1.100642416	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	20.91220591	33.19306133	3.333518194
ENSG0000	0	0.829826533	0
LOXL1-AS	33.01927249	19.9158368	7.77820912
ENSG0000	5.503212081	3.319306133	0
LINC0216-	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
LINC0066	35.22055732	73.02473494	20.00110917
ENSG0000	2.201284833	0	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	9.128091867	0
ENSG0000	0	4.149132667	0
ENSG0000	26.41541799	48.12993894	31.11283648
ENSG0000	3.301927249	0.829826533	0
LINC0218(	1.100642416	0.829826533	0
MIA	1.100642416	2.4894796	5.555863657
LINC0199(	0	0	1.111172731
ENSG0000	0	0	1.111172731
MFSD1P1	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	1.111172731
SMIM36	0	0.829826533	0
ZNF594-D	41.82441182	27.3842756	28.89049102
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
GOSR2-DT	0	1.659653067	0
ENSG0000	0	0.829826533	0
MTND5P3	0	2.4894796	0

ENSG0000	4.402569665	5.808785734	1.111172731
ENSG0000	2.201284833	1.659653067	0
PCDHGA9	118.869381	75.51421454	186.6770189
ENSG0000	0	0	5.555863657
GFY	2.201284833	200.8180211	30.00166375
ENSG0000	2.201284833	5.808785734	0
MMP25-A	129.8758051	105.3879697	68.89270935
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	7.704496914	4.149132667	0
DLGAP1-A	8.80513933	21.57548987	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	2.4894796	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	19.9158368	2.222345463
ENSG0000	1.100642416	4.9789592	0
RPH3AL-A	1.100642416	0	0
SNORD3B	1.100642416	11.61757147	5.555863657
DKFZP434	0	3.319306133	0
ENSG0000	0	1.659653067	0
IL9RP4	1.100642416	0.829826533	2.222345463
OR1P1	0	0	3.333518194
ENSG0000	5.503212081	1.659653067	0
LINC0218	7.704496914	0	0
OR1D3P	2.201284833	0	20.00110917
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
BCAR4	0	0.829826533	0
ENSG0000	0	8.298265334	0
GARS1P1	0	0.829826533	0
NQO1-DT	3.301927249	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
GREP1	1.100642416	2.4894796	33.33518194
LINC0217	20.91220591	25.72462253	5.555863657
ENSG0000	35.22055732	25.72462253	43.33573653
C17orf114	0	1.659653067	0
MYMX	2.201284833	0.829826533	0
LINC0286	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	10.78774493	0
PCDHGB3	56.13276323	43.15097974	237.7909645

ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0
LINC0304	1.100642416	1.659653067	1.111172731
ENSG0000	11.00642416	12.447398	11.11172731
ENSG0000	3.301927249	1.659653067	0
CORO7	0	0.829826533	0
ENSG0000	1.100642416	15.76670413	8.889381852
MTND4LP	0	0.829826533	0
ENSG0000	5.503212081	20.74566333	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	38.52248457	22.4053164	41.11339106
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
MTND4P3	2.201284833	5.808785734	0
HNRNPA1	4.402569665	27.3842756	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	11.11172731
ENSG0000	6.603854498	0.829826533	0
MCUR1P1	34.11991491	27.3842756	6.667036389
MMP12	11.00642416	433.1694504	14.44524551
ENSG0000	3.301927249	4.149132667	3.333518194
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	15.40899383	15.76670413	14.44524551
TXNDC11	0	1.659653067	1.111172731
ENSG0000	6.603854498	2.4894796	2.222345463
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	1.659653067	0
MIR193BH	8.80513933	5.808785734	4.444690926
ENSG0000	1.100642416	0.829826533	0
LINC0156	5.503212081	17.4263572	3.333518194
TVP23CP2	13.207709	42.3211532	22.22345463
SAMD11P	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	5.555863657
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
FAM187B2	0	1.659653067	0
MAPK8IP1	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	5.503212081	5.808785734	3.333518194
DPPA3P6	1.100642416	0	0

ENSG0000	1.100642416	0	0
TXNP4	0	0.829826533	2.222345463
ENSG0000	3.301927249	0.829826533	0
ENSG0000	4.402569665	7.4684388	4.444690926
ENSG0000	0	0	1.111172731
PCDHGA4	146.3854414	214.9250721	258.9032464
ENSG0000	3.301927249	0	1.111172731
TMEM231	0	0.829826533	0
LINC0197	4.402569665	4.149132667	1.111172731
LINC0062	4.402569665	0.829826533	0
OR1D5	0	0.829826533	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	7.4684388	2.222345463
SPON1	498.5910146	97.0897044	110.0061004
ENSG0000	4.402569665	9.128091867	1.111172731
CAMTA2-	0	0	4.444690926
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	0.829826533	0
ZFP3-DT	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	8.298265334	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	8.80513933	1.659653067	8.889381852
ENSG0000	4.402569665	18.25618373	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
LINC0197	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	3.301927249	1.659653067	2.222345463
MRPL12	1.100642416	2.4894796	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
C19orf84	1.100642416	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	195.9143501	332.7604399	353.3529286
ENSG0000	3.301927249	0	0
MTCO1P4	0	2.4894796	1.111172731

CTNS-AS1	4.402569665	3.319306133	0
TMPOP2	3.301927249	79.6633472	0
CCNQ	89.15203572	225.7128171	185.5658462
ALOX12P2	2.201284833	0	0
ENSG0000	0	0.829826533	0
EIF4A1P9	1.100642416	0	0
RPL23AP8	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	12.447398	0
OR52L2P	0	2.4894796	3.333518194
ENSG0000	1.100642416	0.829826533	5.555863657
GTF2I	1635.554631	828.1668803	654.4807388
ZNF234	304.8779493	277.1620621	212.2339917
AKAP1-D1	2.201284833	6.638612267	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
DPH1-AS1	0	4.149132667	0
ENSG0000	1.100642416	2.4894796	0
RNF213-A	79.24625397	36.51236747	271.1261465
ZNF213-A	35.22055732	67.2159492	54.44746384
ENSG0000	0	6.638612267	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	23.23514293	2.222345463
ENSG0000	3.301927249	5.808785734	5.555863657
LRRC37A	9.905781747	13.27722453	17.7787637
MYZAP	8.80513933	0	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
MTND1P8	0	0.829826533	0
HNRNPCP	1.100642416	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
MTND3P1	1.100642416	3.319306133	0
RYKP1	1.100642416	3.319306133	5.555863657
ENSG0000	1.100642416	2.4894796	0
ATP5F1AI	3.301927249	2.4894796	1.111172731
ENSG0000	0	11.61757147	0
MTCYBP3	4.402569665	8.298265334	0
ENSG0000	1.100642416	0	0

ENSG0000	1.100642416	0.829826533	0
RPS7P1	17.61027866	53.93872467	35.55752741
ENSG0000	6.603854498	1.659653067	1.111172731
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	9.128091867	0
EFCAB13-	2.201284833	2.4894796	0
RSL1D1-D	0	4.149132667	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
TAPT1-AS	12.10706658	1.659653067	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	0	0
SGSM2-AS	14.30835141	19.9158368	36.66870014
MIR5011	0	4.149132667	0
ABHD17A	1.100642416	0.829826533	0
MSANTD3	1.100642416	4.9789592	0
TMEM220	17.61027866	4.9789592	2.222345463
MIR4747	0	0.829826533	0
NFE2L1-D	4.402569665	4.149132667	0
MIR3187	1.100642416	0	0
GTSCR1	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
RN7SL689	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
SRSF8	215.7259136	195.0092353	317.7954012
ANTXRLP	13.207709	0	6.667036389
RN7SL155	1.100642416	0	0
ENSG0000	0	3.319306133	0
MAPK8IP1	1.100642416	0	0
MIR5699	0	7.4684388	1.111172731
FAM72C	0	57.2580308	0
MIR378G	0	2.4894796	0
IKBKE	177.203429	63.89664307	154.4530097
RN7SL122	0	0.829826533	0
AK4P1	4.402569665	4.149132667	1.111172731
MIR5582	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	15.76670413	3.333518194
ENSG0000	0	2.4894796	5.555863657
ENSG0000	0	5.808785734	3.333518194
MIR4522	0	0.829826533	0

MIR4480	0	8.298265334	0
ENSG0000	0	3.319306133	0
MIR3185	16.50963624	0	153.3418369
ENSG0000	6.603854498	27.3842756	1.111172731
CHORDC1	5.503212081	25.72462253	13.33407278
LINC0200	0	0	1.111172731
ENSG0000	0	0.829826533	0
MIR3155A	0	0.829826533	0
MIR378D1	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
MSMB	1156.77518	3.319306133	24.44580009
MIR4777	0	0.829826533	0
MIR4802	4.402569665	0	1.111172731
ENSG0000	0	0	2.222345463
MIR548AJ	3.301927249	0	0
SNORA70	0	1.659653067	0
RN7SL470	0	0.829826533	1.111172731
MIR4457	0	0.829826533	0
MIR5581	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
LINC0286	0	0	1.111172731
MIR4639	14.30835141	6.638612267	18.88993643
SLC25A51	0	0.829826533	7.77820912
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	0	5.808785734	0
DLGAP1-A	3.301927249	0	0
ENSG0000	0	2.4894796	0
ENSG0000	8.80513933	39.8316736	2.222345463
RN7SL4P	82.54818122	99.579184	46.66925472
MIR3165	1.100642416	0	0
MIR3664	0	0.829826533	0
ENSG0000	1.100642416	0	0
MIR3133	1.100642416	0	0
LINC0066	57.23340565	113.6862351	5.555863657
RN7SL498	0	0.829826533	0
GDF2	0	0	2.222345463
KPNB1-DT	6.603854498	24.06496947	8.889381852
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	21.57548987	0
MIR3115	3.301927249	4.149132667	0
ENSG0000	1.100642416	0	0
MIR3679	2.201284833	3.319306133	0

RDM1P5	3.301927249	15.76670413	11.11172731
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	2.4894796	0
MIR378E	0	0.829826533	0
MIF4GD-D	2.201284833	4.149132667	21.1122819
ENSG0000	0	0.829826533	0
MIR4744	0	1.659653067	0
ENSG0000	0	0.829826533	0
LINC0154	0	0.829826533	0
LASP1NB	1.100642416	1.659653067	0
DLGAP1-A	0	1.659653067	0
EEF1DP7	13.207709	2.4894796	3.333518194
THOC1-D1	5.503212081	11.61757147	1.111172731
USP32P4	11.00642416	13.27722453	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
MIR4448	0	0.829826533	0
SNORD3A	86.95075089	619.8804204	201.1222644
MIR548Y	0	0.829826533	0
ENSG0000	0	0.829826533	0
RN7SL850	0	0.829826533	0
NBPF11	559.1263475	421.551879	548.9193293
NETO1-D1	1.100642416	0	0
RHEX	15.40899383	2.4894796	2.222345463
ENSG0000	0	0.829826533	0
RN7SL381	0	4.9789592	0
ENSG0000	1.100642416	0	0
RN7SL615	1.100642416	0	0
AKR1C8	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	0
MIR4253	1.100642416	0	0
ENSG0000	0	0	1.111172731
RN7SL336	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
LINC0200	0	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
ABHD15-A	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	35.55752741
ENSG0000	6.603854498	4.149132667	6.667036389
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731

ENSG0000	2.201284833	1.659653067	2.222345463
MIR4803	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	35.22055732	80.49317374	2.222345463
RN7SL784	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	7.4684388	0
MTND1P1	0	0	2.222345463
RN7SL665	0	1.659653067	0
MIR3189	0	0.829826533	0
MAGOH2I	24.21413316	0	6.667036389
ENSG0000	0	0	1.111172731
SNRPCP4	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
AIDAP3	0	1.659653067	0
AGAP7P	19.81156349	2.4894796	32.22400921
ENSG0000	0	0.829826533	0
RNU4ATA	4.402569665	11.61757147	0
ANXA8L1	5.503212081	0.829826533	0
MYL12-AS	1.100642416	14.10705107	0
ZNF407-A	7.704496914	14.9368776	0
LINC0192	0	0	4.444690926
MIR4799	1.100642416	0	0
RN7SL753	0	1.659653067	0
ZNF236-D	3.301927249	1.659653067	0
ENSG0000	9.905781747	4.149132667	7.77820912
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
MIR4694	0	1.659653067	0
MIR548AT	0	1.659653067	0
RN7SL154	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
NOTCH2N	11.00642416	8.298265334	0
LINC0189	0	0	1.111172731
MIR4258	3.301927249	2.4894796	0
SNRPGP2	1.100642416	0	0
MIR3134	0	0.829826533	0
MIR3122	0	0.829826533	0

NEK4P2	0	0.829826533	0
DYNLL2	663.687377	1223.994137	447.8026108
MIR4671	0	0	1.111172731
MIR5007	1.100642416	0	0
ENSG0000	0	0.829826533	0
MYH4	36.32119974	21.57548987	87.78264578
MIR4653	0	0.829826533	0
NCMAP-D	0	0	1.111172731
SDHCP1	0	4.9789592	0
MIR378D2	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
MIR3648-2	2.201284833	0	0
MIR4520-1	1.100642416	0	0
ENSG0000	2.201284833	0	0
MIR4714	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
VSTM2B-I	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
OTUD7B	689.0021526	518.6415834	751.1527665
DNAJB6P8	2.201284833	0	0
MIR5706	1.100642416	1.659653067	0
SUZ12P1	63.83726015	96.25987787	11.11172731
MIR548AF	1.100642416	0	0
RN7SL405	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	0	3.319306133	1.111172731
MIR3162	2.201284833	1.659653067	0
SNX19P3	0	0.829826533	1.111172731
MIR4296	4.402569665	5.808785734	0
LINC0052(	0	11.61757147	0
ENSG0000	0	1.659653067	4.444690926
ENSG0000	0	0	1.111172731
MIR5692B	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	13.207709	19.08601027	1.111172731
MIR3173	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	10.78774493	1.111172731
KRT18P8	1.100642416	2.4894796	0
MIR5194	0	0.829826533	0
PPIAP54	3.301927249	4.9789592	0

MIR4798	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
KRT8P34	2.201284833	0	0
ENSG0000	2.201284833	4.149132667	0
SEPTIN4-A	18.71092108	23.23514293	27.77931829
ENSG0000	5.503212081	4.9789592	6.667036389
RN7SL204	0	2.4894796	0
MIR3140	0	1.659653067	0
ENSG0000	1.100642416	0	0
LINC0191	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
L3MBTL4	1.100642416	0	0
MIR4504	0	1.659653067	0
KIAA0895	0	0.829826533	2.222345463
MIR3117	1.100642416	0	0
ENSG0000	18.71092108	0.829826533	1.111172731
BDP1P	3.301927249	0	0
ENSG0000	0	1.659653067	0
MIR4772	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
MIR4420	1.100642416	0	0
PPIAP14	0	0.829826533	0
ENSG0000	0	0.829826533	0
MIR4637	0	0.829826533	0
MIR5009	0	0.829826533	0
ERVFRD-1	0	2.4894796	0
MIR5191	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	3.319306133	5.555863657
MIR1273C	0	0.829826533	0
ENSG0000	1.100642416	0	0
VN1R71P	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	11.61757147	0
ENSG0000	11.00642416	14.10705107	2.222345463
DSG2-AS1	1.100642416	0.829826533	1.111172731
RN7SL45P	0	0.829826533	0
MIR3613	1.100642416	0	0
ENSG0000	0	3.319306133	0
ENSG0000	7.704496914	6.638612267	0
MIR4494	3.301927249	0	0

RN7SL525	0	0.829826533	0
RN7SL230	1.100642416	0	0
SP2-DT	3.301927249	27.3842756	1.111172731
MIR4540	0	1.659653067	0
ENSG0000	3.301927249	0	0
MIR4265	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
SNORD3C	5.503212081	10.78774493	2.222345463
MIR4474	1.100642416	1.659653067	0
SH3GL1P2	1.100642416	0	2.222345463
PRR29-AS	3.301927249	2.4894796	20.00110917
ENSG0000	0	0.829826533	0
ALOX12P	2.201284833	0.829826533	1.111172731
MIR4730	0	0	7.77820912
TWSG1-D	1.100642416	0.829826533	3.333518194
MIR5094	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
WEE1P2	0	0	1.111172731
RN7SL630	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	2.4894796	1.111172731
MIR4765	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	1.111172731
MIR3942	3.301927249	3.319306133	5.555863657
GJA5	28.61670282	20.74566333	66.67036389
MIR4731	0	0.829826533	0
ENSG0000	0	0.829826533	0
RN7SL200	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
MIR5687	18.71092108	4.9789592	0
MIR3192	4.402569665	2.4894796	0
MIR4301	0	1.659653067	0
MIR548AN	0	1.659653067	0
SNORD53	2.201284833	2.4894796	0
TSPOAP1-	31.91863007	10.78774493	14.44524551
LRRC37A	3.301927249	0.829826533	1.111172731
MIR5003	0	8.298265334	0
MIR4728	2.201284833	0.829826533	3.333518194
SRP72P1	2.201284833	0	0

SNORD3B	1.100642416	1.659653067	0
ANXA8	26.41541799	4.9789592	8.889381852
ENSG0000	2.201284833	3.319306133	0
MIR4312	0	0.829826533	0
RBP3	1.100642416	0.829826533	21.1122819
ENSG0000	0	0.829826533	0
MIR142HC	7.704496914	2.4894796	0
MIR3684	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	6.603854498	10.78774493	0
ENSG0000	1.100642416	0	0
RBM8A	113.3661689	201.6478476	47.78042745
ENSG0000	4.402569665	0	0
MIR4472-1	0	0.829826533	0
MIR3132	0	4.9789592	0
MIR4446	0	0	1.111172731
ENSG0000	0	0.829826533	0
RN7SL74P	0	1.659653067	0
CLUHP6	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
ARGFXP2	0	0.829826533	0
FEM1AP2	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0147(	1.100642416	0.829826533	1.111172731
ENSG0000	2.201284833	0	0
MIR4524B	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	0	2.4894796	0
MIR5188	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
TIMM23	1078.629568	1389.129617	458.9143381
ENSG0000	0	0.829826533	0
PCAT18	3.301927249	0	1.111172731
MIR4682	1.100642416	0	0
ENSG0000	22.01284833	13.27722453	50.00277291
ENSG0000	1.100642416	0.829826533	0
MIR3944	1.100642416	0	0
MIR3128	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	5.555863657

MIR4324	0	3.319306133	0
ENSG0000	3.301927249	5.808785734	1.111172731
ENSG0000	1.100642416	4.149132667	8.889381852
ENSG0000	1.100642416	0.829826533	0
MIR4782	0	0	1.111172731
MIR4308	0	0.829826533	0
MIR3682	2.201284833	0.829826533	0
NARF-AS2	6.603854498	10.78774493	0
ENSG0000	1.100642416	2.4894796	0
MIR4768	1.100642416	0	0
POLR3KP2	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	3.301927249	2.4894796	0
DTX2P1-U	8.80513933	0.829826533	0
KRT18P55	0	0.829826533	0
LINC01915	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
ARHGAP4	4.402569665	0.829826533	0
RNF115	514.0000084	674.6489716	551.1416748
LINC01892	0	0.829826533	0
MIR548V	1.100642416	0	0
MIR5697	0	0.829826533	0
MIR4304	0	0.829826533	0
MIR5690	5.503212081	25.72462253	0
FCGR1CP	28.61670282	2.4894796	17.7787637
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
MIR3918	4.402569665	0	0
RN7SL605	0	2.4894796	0
WDR45BP	6.603854498	6.638612267	18.88993643
CFAP298-7	48.42826632	48.95976547	5.555863657
MIR4756	1.100642416	0	0
MIR4471	0	1.659653067	0
MIR3139	0	1.659653067	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	6.603854498	4.149132667	8.889381852
MIR3612	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
TUFMP1	7.704496914	9.128091867	25.55697282
MIR3151	0	0.829826533	0
RARA-AS1	8.80513933	9.128091867	23.33462736

ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
RPL17	22.01284833	11.61757147	5.555863657
SYPL1P2	0	9.9579184	0
RN7SL378	0	0.829826533	0
MILIP	9.905781747	10.78774493	3.333518194
ENSG0000	0	0.829826533	0
LINC0197(	2.201284833	0.829826533	0
MIR4774	0	3.319306133	0
ENSG0000	1.100642416	4.149132667	30.00166375
ENSG0000	3.301927249	7.4684388	2.222345463
RN7SL648	6.603854498	19.9158368	0
ENSG0000	2.201284833	0.829826533	0
SNORA74(	1.100642416	0	0
RN7SL5P	74.84368431	977.5356563	38.8910456
ENSG0000	1.100642416	0	0
MIR4427	2.201284833	0.829826533	0
RN7SL375	0	1.659653067	0
ENSG0000	14.30835141	9.128091867	23.33462736
ENSG0000	0	0.829826533	0
LINC02958	0	1.659653067	0
ZNF488	2.201284833	57.2580308	0
CXADRP3	0	0.829826533	0
ZNF516-A	0	1.659653067	0
ENSG0000	0	0.829826533	0
NOS2P1	2.201284833	0.829826533	17.7787637
RNASEH1	0	4.9789592	14.44524551
ENSG0000	0	4.149132667	1.111172731
ENSG0000	1.100642416	2.4894796	0
RN7SL49P	1.100642416	0	0
SEC22B	1816.059987	1013.218197	957.8308945
FSBP	53.9314784	179.2425312	2.222345463
MIR3939	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	8.889381852
MIR548X	0	0.829826533	0
ENSG0000	0	0.829826533	0
MIR4514	1.100642416	0	0
MIR5704	0	0	1.111172731
MIR3174	0	0.829826533	0
DSCAS	1.100642416	3.319306133	3.333518194
RN7SL311	1.100642416	0	0
RN7SL96P	0	0.829826533	0
ENSG0000	1.100642416	0	5.555863657
ENSG0000	1.100642416	0	0

ENSG0000	0	0.829826533	0
MIR3685	1.100642416	1.659653067	0
RN7SL577	1.100642416	1.659653067	0
ENSG0000	4.402569665	0	0
LINC0138	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
TXNIP	3590.295562	2514.374396	7629.311974
ENSG0000	1.100642416	0	2.222345463
ENSG0000	0	5.808785734	0
MIR4725	0	1.659653067	0
ENSG0000	0	1.659653067	1.111172731
MIR544B	2.201284833	6.638612267	0
ENSG0000	0	1.659653067	17.7787637
MIR3671	4.402569665	0	0
LINC0207	0	0.829826533	0
ENSG0000	0	0	1.111172731
MIR3609	24.21413316	57.2580308	6.667036389
SRGAP2	582.2398382	1192.460728	952.2750308
SLC9A3R1	1.100642416	0.829826533	4.444690926
ENSG0000	0	0	1.111172731
NDUFV2-A	4.402569665	10.78774493	0
POLRMTP	23.11349074	38.17202053	91.11616398
MIR3617	1.100642416	0	0
BAHCC1	85.85010847	160.1565209	170.0094279
RN7SL574	0	0	1.111172731
SNORA59	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
RASSF5	156.2912231	199.158368	91.11616398
MIR5192	1.100642416	3.319306133	0
ENSG0000	0	0	5.555863657
ENSG0000	3.301927249	1.659653067	2.222345463
ENSG0000	2.201284833	10.78774493	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
MIR5587	0	1.659653067	0
ENSG0000	8.80513933	4.9789592	1.111172731
ZNF415P1	1.100642416	0.829826533	0
SRP68P1	0	1.659653067	0
MIR4654	0	0.829826533	0
RHOT1P1	2.201284833	6.638612267	0
MIR5190	0	0.829826533	0
ENSG0000	7.704496914	4.9789592	1.111172731
ENSG0000	3.301927249	0	0

STRADA	66.03854498	121.1546739	68.89270935
ENSG0000	0	3.319306133	0
RN7SL804	0	0.829826533	0
MIR4661	0	0.829826533	0
GJD3-AS1	40.7237694	40.66150013	67.78153662
ENSG0000	0	0.829826533	0
MIR3611	2.201284833	0.829826533	0
MIR3176	1.100642416	0.829826533	0
NARF-IT1	7.704496914	24.06496947	6.667036389
ENSG0000	0	0.829826533	0
MIR5091	1.100642416	0	0
GRAMD4I	0	0	1.111172731
ENSG0000	0	2.4894796	0
COX6CP3	0	0.829826533	0
LINC0068	3.301927249	0.829826533	2.222345463
KLF14	1.100642416	0.829826533	11.11172731
ENSG0000	0	0	1.111172731
LINC0191	0	0.829826533	0
UBL5P2	0	0	3.333518194
ENSG0000	3.301927249	0	14.44524551
LINC0293	2.201284833	0	0
DYNLL2-I	2.201284833	1.659653067	0
ARIH2P1	2.201284833	4.9789592	0
MIR744	0	0.829826533	0
ENSG0000	4.402569665	8.298265334	2.222345463
ENSG0000	0	1.659653067	1.111172731
MIR3909	3.301927249	0	0
MIR3665	1.100642416	0	0
NBPF15	331.2933673	90.45109214	152.2306642
ENSG0000	1.100642416	0	0
LINC0207	1.100642416	0	0
ENSG0000	3.301927249	0.829826533	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
MIR5002	0	7.4684388	0
ENSG0000	2.201284833	2.4894796	3.333518194
MIR4273	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
SNHG25	3.301927249	0.829826533	0
CBX3P2	1.100642416	2.4894796	2.222345463
NCOA4	1939.331938	658.8822675	1025.612431
RN7SL118	1.100642416	0	0

MIR4451	0	0.829826533	0
MIR4746	1.100642416	6.638612267	2.222345463
ARHGAP2	5.503212081	0.829826533	0
ENSG0000	0	7.4684388	0
ENSG0000	3.301927249	5.808785734	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	3.301927249	1.659653067	0
MRPS21	172.8008594	386.6991645	117.7843095
HELZ-AS1	1.100642416	0	0
ENSG0000	6.603854498	5.808785734	0
ENSG0000	49.52890873	81.32300027	52.22511838
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	2.4894796	1.111172731
ATG12P1	7.704496914	5.808785734	2.222345463
MIR5681A	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	2.222345463
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0	1.111172731
GDF10	6.603854498	19.08601027	40.00221833
ENSG0000	0	3.319306133	7.77820912
MIR4318	0	0.829826533	0
MIR3619	2.201284833	4.9789592	0
SPDYE22P	2.201284833	1.659653067	2.222345463
ENSG0000	11.00642416	3.319306133	0
ATP6V1E1	0	0	2.222345463
LINC0144	0	0.829826533	0
EIF1P5	2.201284833	2.4894796	5.555863657
RN7SL377	0	0.829826533	1.111172731
ENSG0000	0	34.02288787	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
MIR4766	0	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	4.402569665	18.25618373	2.222345463
LONRF2P1	1.100642416	0	0
COP1P1	1.100642416	0.829826533	0
MIR3692	2.201284833	0	0
MIR4742	1.100642416	0.829826533	0
MIR4754	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	8.889381852
ENSG0000	0	2.4894796	1.111172731
ENSG0000	1.100642416	0.829826533	0

MIR5692C	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
MIR4274	0	0.829826533	0
OR4K8P	1.100642416	0	6.667036389
PSMD7P1	41.82441182	60.57733694	6.667036389
ENSG0000	4.402569665	2.4894796	0
RN7SL48P	0	0	1.111172731
ENSG0000	0	3.319306133	0
MYO15B	779.2548307	238.1602151	1606.75577
ENSG0000	0	6.638612267	2.222345463
DSG1-AS1	6.603854498	0	0
GTF2IP6	2.201284833	0	0
ENSG0000	1.100642416	0	0
MIR3661	0	0	13.33407278
ENSG0000	1.100642416	0	0
SH3GL1P1	7.704496914	8.298265334	8.889381852
ENSG0000	2.201284833	3.319306133	0
LGALS9D	0	1.659653067	14.44524551
RN7SL7P	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	5.503212081	14.9368776	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	1.111172731
ENSG0000	0	1.659653067	0
IGBP1C	1.100642416	0	2.222345463
ENSG0000	0	2.4894796	0
GAPLINC	3.301927249	0.829826533	0
ENSG0000	0	0	3.333518194
ENSG0000	0	0.829826533	0
MIR4482	0	1.659653067	0
RPSAP67	0	0	1.111172731
ENSG0000	4.402569665	2.4894796	10.00055458
ENSG0000	0	0	5.555863657
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	4.149132667	1.111172731
AKR1B1P1	1.100642416	0.829826533	0
ENSG0000	4.402569665	3.319306133	0
CEACAM1	3.301927249	1.659653067	0
LINC0066	6.603854498	14.10705107	2.222345463
ENSG0000	13.207709	3.319306133	7.77820912
ENSG0000	1.100642416	0	1.111172731
SLC25A6P	0	0.829826533	0

ENSG0000	34.11991491	24.06496947	41.11339106
LINC0184	3.301927249	0	0
ZNF793-A	1.100642416	12.447398	0
ZNF230-D	8.80513933	16.59653067	14.44524551
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	4.149132667	12.22290005
MADCAM	3.301927249	3.319306133	7.77820912
ENSG0000	3.301927249	3.319306133	0
MRPL37P1	2.201284833	1.659653067	0
ENSG0000	3.301927249	6.638612267	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	3.319306133	1.111172731
HSD17B1-	144.1841565	128.6231127	310.0171921
ENSG0000	5.503212081	5.808785734	1.111172731
ENSG0000	14.30835141	21.57548987	0
AARSD1	8.80513933	5.808785734	1.111172731
CEP192-D	2.201284833	2.4894796	1.111172731
SOCS3-DT	0	0.829826533	0
FARSA-AS	0	0.829826533	4.444690926
ENSG0000	0	0.829826533	0
LIMASI	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
RANBP3-I	2.201284833	4.149132667	0
POLR3GP2	1.100642416	0	2.222345463
ENSG0000	0	0	1.111172731
DHX40P1	0	0.829826533	1.111172731
ENSG0000	4.402569665	1.659653067	0
ENSG0000	8.80513933	3.319306133	0
ENSG0000	38.52248457	85.47213294	12.22290005
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
LINC0153	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	0
NTF6A	0	0	1.111172731
LRRC37A	0	1.659653067	13.33407278
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	2.222345463
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0

ENSG0000	0	1.659653067	0
ATP8B1-A	30.81798766	32.3632348	7.77820912
ZNF850	274.0599617	1094.541198	241.1244827
ENSG0000	15.40899383	5.808785734	0
E2F3P1	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	3.319306133	0
LINC0190	2.201284833	1.659653067	0
ENSG0000	1.100642416	2.4894796	1.111172731
PTGES3L	3.301927249	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
UXT-AS1	0	2.4894796	4.444690926
LINC0208(	3.301927249	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	1.100642416	0	0
MIX23P3	0	0.829826533	1.111172731
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	1.659653067	1.111172731
ASB16-AS	150.788011	253.0970927	203.3446099
ENSG0000	0	0	1.111172731
ENSG0000	12.10706658	31.53340827	35.55752741
CTBP2P7	2.201284833	0	0
ENSG0000	2.201284833	0.829826533	2.222345463
ENSG0000	2.201284833	4.149132667	0
ILF3-DT	16.50963624	65.55629614	13.33407278
ENSG0000	0	0.829826533	0
ZNF561-A	40.7237694	53.10889814	5.555863657
PCAT19	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
RPL10P15	2.201284833	0.829826533	0
FMNL1-D	5.503212081	4.9789592	0
ENSG0000	0	2.4894796	0
SCAT1	1.100642416	0.829826533	0
ENSG0000	0	9.9579184	1.111172731
RNF157-A	15.40899383	31.53340827	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0

HMGB3P2	0	0.829826533	0
LINC0192	1.100642416	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0	2.222345463
ENSG0000	6.603854498	0.829826533	7.77820912
ENSG0000	0	0	3.333518194
ZNF222-D	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0184	0	2.4894796	0
ENSG0000	3.301927249	2.4894796	3.333518194
TPMTP1	0	0.829826533	0
ENSG0000	8.80513933	9.9579184	2.222345463
SDHDP1	0	0	1.111172731
ENSG0000	0	4.149132667	10.00055458
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	4.9789592	0
PHF5AP1	12.10706658	14.10705107	6.667036389
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
PTP4A2P1	11.00642416	23.23514293	15.55641824
ZNF45-AS	3.301927249	5.808785734	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	0	4.149132667	1.111172731
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	3.319306133	17.7787637
LCN6	2.201284833	0	0
BCAS3-AS	0	1.659653067	0
DPY19L3-	0	1.659653067	3.333518194
ENSG0000	0	2.4894796	0
ZNF8-ERV	14.30835141	31.53340827	52.22511838
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	1.659653067	7.77820912
C17orf113	2.201284833	7.4684388	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
MALT1-AS	1.100642416	13.27722453	13.33407278
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	11.61757147	2.222345463
ENSG0000	0	2.4894796	2.222345463
LINC0125	2.201284833	0	1.111172731
WHSC1L2	12.10706658	48.12993894	1.111172731

ZNF790-A	44.02569665	41.49132667	17.7787637
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	21.1122819
ERVE-1	4.402569665	4.9789592	0
ENSG0000	5.503212081	28.21410213	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	11.61757147	0
ENSG0000	1.100642416	0.829826533	0
PARD6G-A	1.100642416	1.659653067	0
LINC0114(	1.100642416	3.319306133	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	4.149132667	0
MAP3K14	19.81156349	43.15097974	64.44801842
ENSG0000	1.100642416	0.829826533	0
TBX2-AS1	5.503212081	3.319306133	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	18.71092108	3.319306133	37.77987287
ENSG0000	1.100642416	2.4894796	0
ENSG0000	2.201284833	0	0
PIN1-DT	0	4.149132667	0
ENSG0000	6.603854498	1.659653067	2.222345463
CEBPA-DT	3.301927249	0	3.333518194
ENSG0000	5.503212081	5.808785734	0
RNFT1-DT	1.100642416	0	0
ENSG0000	0	0	1.111172731
LINC0176	1.100642416	3.319306133	0
ZNF566-A	0	10.78774493	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	8.80513933	13.27722453	14.44524551
KC6	0	0.829826533	1.111172731
ENSG0000	3.301927249	13.27722453	3.333518194
SELENOK	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
SNHG30	9.905781747	27.3842756	1.111172731
SNHG22	14.30835141	24.06496947	0
ENSG0000	1.100642416	0.829826533	0
LINC0141	1.100642416	1.659653067	0
ENSG0000	1.100642416	8.298265334	0
ENSG0000	2.201284833	0.829826533	0
KIF18B-DT	0	1.659653067	0
EIF4A2P1	2.201284833	0	0
LINC0147	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0

ENSG0000	2.201284833	0	11.11172731
ENSG0000	1.100642416	5.808785734	0
EIF5AP3	6.603854498	7.4684388	6.667036389
GEMIN7-A	5.503212081	11.61757147	14.44524551
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
SEC24AP1	0	2.4894796	0
KCNJ2-AS	5.503212081	1.659653067	0
TAF5LP1	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
MIR924HC	4.402569665	113.6862351	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	15.40899383	25.72462253	22.22345463
SMCO4P1	2.201284833	0.829826533	0
ENSG0000	0	0	4.444690926
ENSG0000	1.100642416	0.829826533	13.33407278
ENSG0000	1.100642416	0.829826533	0
KDSR-DT	1.100642416	3.319306133	0
MIR122HC	0	0.829826533	0
CYP4F9P	0	0	1.111172731
ATXN7L3·	11.00642416	2.4894796	7.77820912
DM1-AS	22.01284833	9.128091867	30.00166375
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	4.402569665	0	0
ENSG0000	1.100642416	0.829826533	0
SETBP1-D	7.704496914	2.4894796	0
HEATR6-I	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ZFP28-DT	1.100642416	0	0
ENSG0000	15.40899383	21.57548987	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	5.808785734	5.555863657
ENSG0000	3.301927249	4.9789592	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
DNAH17-A	1.100642416	5.808785734	7.77820912
ENSG0000	4.402569665	0	1.111172731
ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	0	3.333518194
LINC0259·	1.100642416	0.829826533	0

ENSG0000	0	0.829826533	0
LINC0207	0	4.9789592	0
ZNF582-D	0	1.659653067	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
THEG5	4.402569665	4.149132667	63.33684569
APOC4	1.100642416	0	0
ZNF571-A	17.61027866	15.76670413	17.7787637
ARHGAP2	0	0	4.444690926
ENSG0000	1.100642416	4.149132667	0
NUDT19-I	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	5.808785734	0
ENSG0000	1.100642416	0	0
LINC0183	1.100642416	0.829826533	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0	3.333518194
CIRBP-AS	0	3.319306133	0
NFE2L3P1	4.402569665	2.4894796	1.111172731
UQCRFS1-	0	0.829826533	0
ZNF887P	3.301927249	18.25618373	0
ENSG0000	1.100642416	0	0
ENSG0000	9.905781747	4.149132667	0
ENSG0000	1.100642416	3.319306133	0
ZNF285	160.6937928	214.9250721	174.4541188
ADAD1P2	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
MIR23AH(	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0186	0	0.829826533	1.111172731
ENSG0000	6.603854498	2.4894796	17.7787637
ENSG0000	1.100642416	5.808785734	1.111172731
LINC0183(	1.100642416	0	1.111172731
MIR497HC	46.22698148	12.447398	45.55808199
ENSG0000	3.301927249	0.829826533	0
S1PR2	252.0471133	217.4145517	140.0077642
MTCO2P2	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
HIKESHIP	0	4.9789592	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	0	2.4894796	0
ZSCAN5A	2.201284833	1.659653067	0

PTPRS-AS	0	2.4894796	0
GNA15-DT	0	0	8.889381852
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	4.444690926
ENSG0000	12.10706658	24.894796	47.78042745
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	3.319306133	0
STK25P1	0	0.829826533	0
KRT8P5	1.100642416	0	0
LINC0298	19.81156349	81.32300027	7.77820912
ENSG0000	0	0.829826533	0
DNAAF3-A	1.100642416	1.659653067	21.1122819
ENSG0000	0	0	1.111172731
ZNF24TR	0	0.829826533	0
LINC0090	3.301927249	23.23514293	0
ENSG0000	4.402569665	2.4894796	0
ENSG0000	1.100642416	0	0
LINC0192	1.100642416	0	0
CYP4F24P	2.201284833	1.659653067	3.333518194
BRCA1P1	2.201284833	3.319306133	2.222345463
RPIAP1	1.100642416	0	2.222345463
ENSG0000	1.100642416	0	1.111172731
ENSG0000	2.201284833	4.149132667	13.33407278
ENSG0000	1.100642416	0.829826533	1.111172731
ICAM4-AS	2.201284833	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	14.30835141	28.21410213	3.333518194
ENSG0000	0	0.829826533	5.555863657
RPL7L1P5	2.201284833	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ASXL3-DT	0	2.4894796	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	8.298265334	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	0	7.4684388	0
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	6.638612267	0
LINC0148	0	0.829826533	3.333518194
TSHZ3-AS	1.100642416	1.659653067	0

ENSG0000	2.201284833	0	0
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	7.4684388	1.111172731
FDX2	0	0	4.444690926
THA1P	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
EIF5AP2	1.100642416	0	0
ZNF224	844.1927333	903.6810948	591.1438931
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	11.61757147	3.333518194
NTF6B	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
LDLRAD4	0	0.829826533	0
SHC1P2	0	0	1.111172731
TAF9P3	4.402569665	2.4894796	1.111172731
ERVK-28	0	0	1.111172731
ENSG0000	15.40899383	34.02288787	21.1122819
ENSG0000	5.503212081	0	0
ENSG0000	2.201284833	0	0
RDM1P3	0	0.829826533	0
EDDM13	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
LINC0207	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	1.659653067	0
ENSG0000	4.402569665	13.27722453	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
HMGB2P1	1.100642416	0	0
UBE2L4	0	0.829826533	0
SINHCAFI	1.100642416	17.4263572	16.66759097
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	2.222345463
RUNDC3A	15.40899383	5.808785734	2.222345463
BSG-AS1	9.905781747	24.894796	8.889381852
ENSG0000	1.100642416	0	0
EML2-AS1	2.201284833	4.149132667	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	4.9789592	0
LINC0180	0	1.659653067	2.222345463
ENSG0000	0	1.659653067	0

ENSG0000	0	1.659653067	0
LINC0199	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
OR7E16P	0	0.829826533	1.111172731
CBARP-D	0	0.829826533	0
LINC0153	1.100642416	0.829826533	0
ENSG0000	3.301927249	1.659653067	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	34.11991491	18.25618373	11.11172731
LINC0198	0	0.829826533	0
ENSG0000	1.100642416	0	0
SMIM22	5.503212081	55.59837774	2.222345463
LIN37	16.50963624	16.59653067	20.00110917
MAN1A2P	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	1.111172731
ENSG0000	0	0.829826533	0
NDUFV2P	15.40899383	9.128091867	8.889381852
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	6.638612267	1.111172731
ARHGEF1	0	1.659653067	0
NDUFA7	5.503212081	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
MZF1-AS1	4.402569665	19.9158368	10.00055458
ENSG0000	0	1.659653067	0
ZNF460-A	1.100642416	4.9789592	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	2.222345463
ENSG0000	1.100642416	53.10889814	1.111172731
ENSG0000	0	0	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	13.207709	11.61757147	4.444690926
VSIG10L-A	5.503212081	1.659653067	0
CCDC177	7.704496914	19.08601027	0
SNX6P1	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
EIF1P6	3.301927249	0	0
ENSG0000	0	3.319306133	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	7.4684388	63.33684569
ENSG0000	1.100642416	0	6.667036389

CARD8-AS	3.301927249	8.298265334	0
PTOV1-AS	20.91220591	24.06496947	27.77931829
ENSG0000	0	0	5.555863657
ERFL	0	6.638612267	0
NBPF12	813.3747456	781.6965944	1225.623523
ENSG0000	3.301927249	8.298265334	4.444690926
ENSG0000	0	4.9789592	8.889381852
ENSG0000	5.503212081	9.128091867	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	3.333518194
NAPA-AS1	2.201284833	6.638612267	21.1122819
FMR1-AS1	1.100642416	0.829826533	0
ENSG0000	11.00642416	9.128091867	8.889381852
ENSG0000	4.402569665	0	0
ENSG0000	52.83083598	42.3211532	71.11505481
ENSG0000	0	0.829826533	0
GABRQ	0	0.829826533	0
ENSG0000	1.100642416	0	0
ZNF725P	2.201284833	0.829826533	2.222345463
SLC6A14	60.5353329	3.319306133	7.77820912
ENSG0000	1.100642416	6.638612267	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	13.207709	107.0476228	1.111172731
ENSG0000	5.503212081	1.659653067	6.667036389
ENSG0000	0	2.4894796	0
PCGF7P	0	0.829826533	0
VN1R91P	0	0.829826533	0
ENSG0000	4.402569665	3.319306133	2.222345463
ENSG0000	1.100642416	2.4894796	0
SMIM17	3.301927249	34.02288787	15.55641824
ZNF114-A	0	2.4894796	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	0	3.333518194
ENSG0000	1.100642416	9.9579184	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	92.45396297	186.71097	25.55697282
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	1.659653067	0
OPN1MW	0	0	27.77931829
ARL14EPI	1.100642416	0.829826533	6.667036389
ENSG0000	1.100642416	7.4684388	0
FKBP4P6	2.201284833	17.4263572	4.444690926

TCP11X1	0	1.659653067	0
AIRN	1.100642416	0	0
VN1R78P	1.100642416	0	0
ENSG0000	7.704496914	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ARPC1AP1	0	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	9.905781747	6.638612267	0
LINC0256(	5.503212081	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LRRC2-AS	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
SIGLEC20	0	2.4894796	3.333518194
FAM156A	1.100642416	0.829826533	1.111172731
ENSG0000	146.3854414	532.7486344	62.22567296
SMC5-DT	16.50963624	70.53525534	12.22290005
SERTAD3-	1.100642416	1.659653067	0
ENSG0000	2.201284833	7.4684388	0
ENSG0000	3.301927249	1.659653067	0
FENDRR	41.82441182	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
ENSG0000	4.402569665	14.10705107	3.333518194
ENSG0000	2.201284833	11.61757147	0
TRMT112I	6.603854498	22.4053164	10.00055458
SSX2B	16.50963624	22.4053164	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
MIR4453H	7.704496914	33.19306133	2.222345463
ENSG0000	3.301927249	4.9789592	0
ENSG0000	11.00642416	10.78774493	17.7787637
NFILZ	2.201284833	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
SIGLEC5.1	12.10706658	11.61757147	17.7787637
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	1.659653067	7.77820912
ZNF8-DT	23.11349074	19.9158368	14.44524551
ENSG0000	1.100642416	0	0
VN1R83P	8.80513933	4.9789592	2.222345463
ENSG0000	1.100642416	0.829826533	0
LINC0213:	3.301927249	0	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
VN1R107P	1.100642416	0	0
ENSG0000	0	4.9789592	2.222345463
ILVBL-AS	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	6.603854498	9.128091867	0
ENSG0000	6.603854498	8.298265334	4.444690926
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	9.9579184	0
ENSG0000	0	0	1.111172731
RAET1E-A	1.100642416	0	5.555863657
VN1R80P	1.100642416	1.659653067	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	5.503212081	7.4684388	3.333518194
MAGEA2	0	1.659653067	0
ENSG0000	6.603854498	2.4894796	1.111172731
ENSG0000	2.201284833	0	1.111172731
IGFL2-AS1	3.301927249	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
TEX13A	0	0	20.00110917
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
CTAG1A	1.100642416	0	0
MIMT1	1.100642416	0	0
ENSG0000	2.201284833	0	0
LINC0066	0	14.10705107	0
ENSG0000	1.100642416	0.829826533	0
LETM1P2	1.100642416	2.4894796	2.222345463
ENSG0000	1.100642416	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	5.503212081	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	0	3.333518194
ENSG0000	3.301927249	1.659653067	0
ZNF723	1.100642416	1.659653067	1.111172731
ENSG0000	0	4.9789592	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
HSFX2	1.100642416	0	0
ENSG0000	0	2.4894796	1.111172731

ENSG0000	3.301927249	3.319306133	0
SCGB1B2I	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0	0
LIF-AS2	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	3.319306133	0
SIGLEC22	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	64.93790256	86.30195947	141.1189369
ESPNP	0	0.829826533	0
PNMA6B	0	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
LIM2-AS1	0	4.149132667	0
PLCE1-AS	0	0	2.222345463
A1BG-AS1	5.503212081	20.74566333	26.66814555
ENSG0000	0	4.9789592	0
CSAG2	3.301927249	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	6.638612267	1.111172731
ENSG0000	4.402569665	10.78774493	0
CSAG3	2.201284833	13.27722453	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0	1.111172731
CT45A1	2.201284833	0.829826533	0
LINC0171	2.201284833	0	0
CKS1BP3	0	4.9789592	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	1.100642416	18.25618373	0
MRPS17P1	0	0.829826533	1.111172731
ERVV-2	1.100642416	1.659653067	10.00055458
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
SPANXN2	1.100642416	3.319306133	0
MAN1B1-I	1.100642416	0.829826533	0
ZNF818P	5.503212081	13.27722453	3.333518194
HOMER3-	0	0	1.111172731
LINC0183	1.100642416	0	0
SF1-DT	2.201284833	4.149132667	0
ENSG0000	2.201284833	0	20.00110917
ENSG0000	12.10706658	11.61757147	6.667036389
ENSG0000	1.100642416	1.659653067	0

ZNF497-A	3.301927249	5.808785734	0
BNIP3P18	1.100642416	0.829826533	0
CALR3	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ZNF728	36.32119974	2.4894796	45.55808199
ENSG0000	1.100642416	8.298265334	6.667036389
ENSG0000	1.100642416	0.829826533	8.889381852
ENSG0000	0	0	3.333518194
LINC0296	1.100642416	1.659653067	0
ENSG0000	0	0	13.33407278
CT45A3	0	0	5.555863657
TRABD2B	92.45396297	3.319306133	68.89270935
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	0.829826533	12.22290005
ZNF209P	0	1.659653067	0
MAST3-AS	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	12.10706658	29.04392867	45.55808199
ENSG0000	0	0.829826533	1.111172731
LINC0108	2.201284833	0	0
ENSG0000	2.201284833	9.128091867	0
ENSG0000	9.905781747	0.829826533	1.111172731
ENSG0000	0	4.9789592	0
LINC0052	1.100642416	0	0
TMSB15C	0	0.829826533	0
ZNF350-A	77.04496914	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	12.10706658	4.9789592	10.00055458
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	0
ZSCAN16-	13.207709	59.7475104	5.555863657
FKBP1AP1	0	0	5.555863657
RAD54L2I	1.100642416	0	0
ENSG0000	9.905781747	14.10705107	44.44690926
IKBKG	12.10706658	24.06496947	65.55919115
ZNF587B	975.1691808	833.1458395	568.9204385
ENSG0000	2.201284833	0.829826533	1.111172731
PTOV1-AS	69.34047223	103.7283167	250.0138646
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	14.30835141	38.17202053	50.00277291

ENSG0000	0	0	1.111172731
ITGB1P1	544.8179961	1080.434146	237.7909645
ENSG0000	0	0.829826533	0
RAB11B-A	24.21413316	1.659653067	55.55863657
ENSG0000	3.301927249	4.9789592	8.889381852
ENSG0000	1.100642416	9.128091867	2.222345463
ENSG0000	2.201284833	9.128091867	0
SPIB	2.201284833	1.659653067	0
NXF2	0	3.319306133	0
LINC0122	0	4.149132667	0
PLA2G4C-	2.201284833	2.4894796	3.333518194
ENSG0000	0	7.4684388	0
ENSG0000	0	4.9789592	0
PGLS-DT	22.01284833	14.10705107	11.11172731
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ZNF132-D	5.503212081	4.149132667	3.333518194
ENSG0000	0	0	4.444690926
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	1.111172731
DMRTC1	1.100642416	0	3.333518194
ENSG0000	1.100642416	2.4894796	0
BNIP3P34	0	0.829826533	0
ENSG0000	1.100642416	5.808785734	0
CYP4F23P	0	12.447398	1.111172731
ERVV-1	12.10706658	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
OR7A8P	0	1.659653067	1.111172731
TMEM185	140.8822293	131.9424188	274.4596647
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0.829826533	1.111172731
GPR32P1	0	0	5.555863657
ENSG0000	1.100642416	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
SIGLEC27	0	0	1.111172731
ENSG0000	1.100642416	0	0
TDGF1P7	0	0.829826533	0
CT45A10	1.100642416	0	0
ENSG0000	0	0	1.111172731

ENSG0000	1.100642416	0.829826533	1.111172731
OSTCP3	0	0	5.555863657
C10orf95-A	16.50963624	43.98080627	14.44524551
MTDHP2	1.100642416	0	0
ENSG0000	0	0	3.333518194
ENSG0000	1.100642416	0.829826533	0
ZNF888-A	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	12.10706658	14.9368776	1.111172731
NOP53-AS	1.100642416	0	3.333518194
ENSG0000	2.201284833	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ZNF470-D	6.603854498	5.808785734	1.111172731
ZIM2	5.503212081	2.4894796	5.555863657
ENSG0000	0	0.829826533	0
NBPF9	466.6723845	424.0413586	323.3512648
CCDC194	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
SLC25A53	13.207709	38.17202053	16.66759097
ENSG0000	1.100642416	1.659653067	0
EXOSC3P2	0	0.829826533	0
ENSG0000	5.503212081	30.70358173	15.55641824
MIR1470	0	0.829826533	0
OR7A3P	2.201284833	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	0	1.111172731
PLEKHA3	1.100642416	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	1.659653067	1.111172731
ENSG0000	0	1.659653067	0
KCNQ1OT	575.6359837	719.4596044	83.33795486
ENSG0000	79.24625397	273.842756	24.44580009
ZNF528-A	12.10706658	18.25618373	2.222345463
IPO5P1	11.00642416	43.15097974	6.667036389
ENSG0000	1.100642416	1.659653067	11.11172731
ENSG0000	0	0.829826533	1.111172731
RNF225	13.207709	0.829826533	37.77987287
EGLN2	42.92505424	78.00369414	24.44580009
ZNF628-D	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	5.503212081	31.53340827	0

ENSG0000	0	0.829826533	0
ARHGAP1	0	2.4894796	0
ENSG0000	1.100642416	0	0
SNHG8	72.64239948	48.12993894	16.66759097
ENSG0000	4.402569665	1.659653067	10.00055458
ENSG0000	7.704496914	3.319306133	2.222345463
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
MAP2K4P	3.301927249	2.4894796	11.11172731
ENSG0000	5.503212081	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	5.808785734	0
ENSG0000	3.301927249	15.76670413	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	1.111172731
MIRLET7A	50.62955115	110.3669289	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	81.44753881	5.808785734	80.00443666
ENSG0000	1.100642416	1.659653067	0
ENSG0000	5.503212081	13.27722453	1.111172731
PCF11-AS	3.301927249	19.9158368	3.333518194
ENSG0000	2.201284833	14.9368776	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	9.905781747	15.76670413	1.111172731
MKNK1-A	0	0.829826533	0
ENSG0000	15.40899383	29.04392867	1.111172731
SPACA6-A	0	2.4894796	0
ERBIN-DT	0	0.829826533	0
MEI4	2.201284833	4.149132667	15.55641824
ENSG0000	1.100642416	7.4684388	4.444690926
ENSG0000	5.503212081	1.659653067	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	21.57548987	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	2.4894796	0
ENSG0000	4.402569665	9.128091867	1.111172731
ENSG0000	1.100642416	0	3.333518194
FARS2-AS	1.100642416	0	1.111172731
ENSG0000	1.100642416	1.659653067	0

ENSG0000	1.100642416	0	0
LINC0289	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	0	1.111172731
C16orf95-I	0	3.319306133	0
ZNF559-ZI	0	2.4894796	0
ENSG0000	7.704496914	18.25618373	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	13.27722453	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	16.59653067	0
ENSG0000	0	4.9789592	0
ENSG0000	4.402569665	1.659653067	0
ATP6V0D	7.704496914	9.9579184	0
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	4.9789592	2.222345463
ENSG0000	4.402569665	7.4684388	0
ENSG0000	0	5.808785734	0
MIR222HC	7.704496914	7.4684388	0
ENSG0000	4.402569665	2.4894796	3.333518194
ENSG0000	3.301927249	0.829826533	0
GAS5-AS1	0	5.808785734	1.111172731
ENSG0000	5.503212081	5.808785734	0
ENSG0000	0	0	3.333518194
ENSG0000	2.201284833	0.829826533	0
ENSG0000	22.01284833	9.9579184	11.11172731
ENSG0000	0	1.659653067	0
TSNAX-DI	0	3.319306133	0
ENSG0000	5.503212081	9.9579184	2.222345463
CELF2-DT	1.100642416	0	0
ST8SIA5-I	1.100642416	16.59653067	0
ENSG0000	4.402569665	13.27722453	2.222345463
ENSG0000	7.704496914	20.74566333	1.111172731
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	4.149132667	8.889381852
MICOS10-	0	0	1.111172731

ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	0
TERC	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	9.905781747	47.3001124	3.333518194
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
NCBP2AS2	12.10706658	43.98080627	24.44580009
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	4.149132667	0
PPP2CA-D	2.201284833	3.319306133	0
ENSG0000	9.905781747	1.659653067	6.667036389
ENSG0000	2.201284833	1.659653067	0
GOLGA4-A	4.402569665	4.9789592	0
ENSG0000	1.100642416	18.25618373	2.222345463
ENSG0000	6.603854498	0	0
NBPF8	226.7323378	219.9040313	258.9032464
ENSG0000	3.301927249	3.319306133	11.11172731
ENSG0000	0	1.659653067	0
IMMP1LP1	0	0	1.111172731
H4C15	5.503212081	24.894796	30.00166375
ENSG0000	102.3597447	44.8106328	105.5614095
ENSG0000	1.100642416	0	0
XIAPP1	7.704496914	0	2.222345463
ENSG0000	4.402569665	0	0
PHACTR2	0	0.829826533	0
MTATP6P	0	1.659653067	0
TEX101P1	1.100642416	8.298265334	1.111172731
ENSG0000	1.100642416	0	0
IGHV3OR	1.100642416	0.829826533	2.222345463
BNIP3P9	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
SMC2-DT	1.100642416	150.1986025	2.222345463
ENSG0000	0	0	1.111172731
PPIAL4H	2.201284833	0.829826533	0
UNGP3	0	3.319306133	1.111172731
POC1B-AS	16.50963624	18.25618373	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
HMGN3-A	5.503212081	7.4684388	0
ENSG0000	1.100642416	0	0
MTCO3P2	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	1.659653067	0
KNOP1P2	0	1.659653067	0
OR7E108P	2.201284833	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LAMB2P1	1.100642416	4.149132667	2.222345463
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
IGHV3OR	1.100642416	0	0
ENSG0000	1.100642416	0	0
IGHV3OR	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
MKI67P1	1.100642416	0	5.555863657
COX6CP4	0	0.829826533	0
YTHDF2P	4.402569665	16.59653067	13.33407278
ENSG0000	20.91220591	3.319306133	0
CSTBP1	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	2.222345463
ENSG0000	3.301927249	0	2.222345463
LINC0123	6.603854498	0.829826533	0
ENSG0000	0	0.829826533	0
IGHV3-30	8.80513933	0	0
EIF3EP4	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	1.659653067	0
ENSG0000	5.503212081	4.149132667	0
FOXP1-DT	12.10706658	4.9789592	0
ENSG0000	3.301927249	3.319306133	0
ENSG0000	103.4603871	23.23514293	100.0055458
PKD1P6-N	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
PPIAP52	0	0.829826533	0
NAV2-AS6	0	2.4894796	0
ENSG0000	0	0	2.222345463
NBPF14	978.4711081	445.6168484	921.1621944
ENSG0000	1.100642416	3.319306133	0

ECM1P1	0	0	1.111172731
ENSG0000	2.201284833	6.638612267	0
TSIX	4.402569665	2.4894796	2.222345463
TAF15	4.402569665	1.659653067	0
DPRXP5	0	0.829826533	0
ENSG0000	3.301927249	17.4263572	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
HNRNPA1	1.100642416	0.829826533	0
YTHDF3-I	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	4.444690926
BUD13P1	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	0
PRMT1P1	2.201284833	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
MICOS10I	2.201284833	0.829826533	0
ENSG0000	3.301927249	0	0
RNVU1-31	0	6.638612267	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0	2.222345463
THAP5P2	0	0	1.111172731
FBXW7-A	2.201284833	0	0
OOEPP1	0	0	1.111172731
CD2AP-DT	0	2.4894796	0
GAS2L2	8.80513933	2.4894796	13.33407278
ENSG0000	1.100642416	0	0
PDLIM1P1	1.100642416	0	6.667036389
DPRXP6	0	0.829826533	0
ENSG0000	18.71092108	2.4894796	22.22345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
UBE2CP5	25.31477557	11.61757147	88.89381852
C17orf50	4.402569665	3.319306133	2.222345463
ENSG0000	2.201284833	0.829826533	2.222345463
CHCHD2P	2.201284833	0	0
ENSG0000	2.201284833	0	0
NANOGNI	0	0.829826533	0
USP34-DT	16.50963624	4.149132667	11.11172731
ENSG0000	7.704496914	3.319306133	4.444690926

ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	2.222345463
DDX55P1	1.100642416	0	0
IGHV3OR	0	0.829826533	0
ENSG0000	0	0	3.333518194
SRGAP2D	12.10706658	45.64045934	16.66759097
ZNF30-AS	3.301927249	0.829826533	0
GCATP1	7.704496914	3.319306133	15.55641824
H4C14	2.201284833	13.27722453	2.222345463
ENSG0000	0	0.829826533	0
RASL10B	16.50963624	18.25618373	20.00110917
PPP1R14B	0	0.829826533	1.111172731
HNRNPA3	0	0.829826533	0
MTND4P3	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
H3P8	0	1.659653067	0
ENSG0000	0	1.659653067	0
TAS2R6P	1.100642416	2.4894796	1.111172731
SRD5A3P1	0	0	1.111172731
GRAMD4I	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
AK3P7	0	0.829826533	0
MTDHP1	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	23.11349074	45.64045934	20.00110917
ENSG0000	25.31477557	4.149132667	18.88993643
LPP-AS2	5.503212081	8.298265334	0
MAP2K5-I	2.201284833	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	3.301927249	7.4684388	4.444690926
HMGB1P5	1.100642416	0	0
ENSG0000	0	2.4894796	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
DPPA3P10	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	40.7237694	13.27722453	11.11172731
ENSG0000	0	0	3.333518194

ENSG0000	0	0	1.111172731
RNPC3P1	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
SNRPGP1	0	0	1.111172731
ENSG0000	0	0	1.111172731
CTAGE15	0	0.829826533	0
NAMA	1.100642416	0.829826533	2.222345463
TLCD4-RV	6.603854498	12.447398	1.111172731
ENSG0000	0	0	1.111172731
SCML2P2	2.201284833	4.149132667	0
LINC0304	3.301927249	4.149132667	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0306	0	1.659653067	0
HERPUD2	16.50963624	43.98080627	1.111172731
ENSG0000	0	0.829826533	0
IGHV3OR	0	3.319306133	0
PPIAP75	1.100642416	0	3.333518194
ITGB8-AS	0	2.4894796	0
ENSG0000	33.01927249	4.149132667	51.11394565
YWHAQP	1.100642416	0	0
ARMCX5-	26.41541799	29.8737552	5.555863657
ENSG0000	2.201284833	3.319306133	3.333518194
ENSG0000	2.201284833	4.149132667	3.333518194
ENSG0000	0	0.829826533	0
NGRNP3	0	0	2.222345463
IGHV3OR	1.100642416	0.829826533	0
COX5AP1	2.201284833	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	2.4894796	0
VDAC3P1	2.201284833	4.149132667	2.222345463
PATJ-DT	0	0.829826533	0
ENSG0000	33.01927249	17.4263572	0
MTCO1P2	0	1.659653067	0
ENSG0000	0	0.829826533	0
BRDTP1	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	2.222345463
RPL21P13	1.100642416	0.829826533	0
SREK1IP1	0	0.829826533	0
ENSG0000	0	0.829826533	0
KRT18P9	0	0.829826533	1.111172731
HMGB1P5	0	0.829826533	0
ENSG0000	0	0.829826533	0
PRELID3B	1.100642416	0	0

DIMT1P1	1.100642416	0.829826533	0
ENSG0000	77.04496914	63.89664307	70.00388208
ENSG0000	1.100642416	0	0
LAPTM4B	0	0	1.111172731
TMCC1-D	11.00642416	28.21410213	4.444690926
CYTH1P1	1.100642416	0	0
COPS8P1	0	0	1.111172731
SRXN1	7.704496914	2.4894796	4.444690926
DPRXP2	0	1.659653067	0
ENSG0000	0	0.829826533	0
MOB4P2	0	0	4.444690926
CTAGE6	0	0.829826533	8.889381852
ENSG0000	4.402569665	4.149132667	0
ENSG0000	1.100642416	0	0
CCNY-AS	13.207709	12.447398	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
USP6NL-A	1.100642416	0	0
HTATSF1I	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
IFITM3P8	1.100642416	1.659653067	0
ENSG0000	3.301927249	0	0
ENSG0000	19.81156349	15.76670413	4.444690926
ENSG0000	0	3.319306133	0
NBPF19	4.402569665	3.319306133	3.333518194
ENSG0000	1.100642416	1.659653067	1.111172731
SRGNP1	0	0	2.222345463
C1orf21-D	0	3.319306133	5.555863657
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
CCDC121I	5.503212081	0	0
ENSG0000	0	0	2.222345463
MZT1P2	0	0.829826533	0
EI24P6	0	0.829826533	0
RPL23AP9	1.100642416	0	0
ENSG0000	1.100642416	0	0
CYCSP1	1.100642416	0	0
NBPF10	467.7730269	116.1757147	352.2417559
ENSG0000	0	0.829826533	0
RPL17P51	1.100642416	0	0
ENSG0000	2.201284833	4.9789592	4.444690926
MMP28	1.100642416	2.4894796	0

ENSG0000	22.01284833	11.61757147	0
CKAP2LP1	0	0.829826533	0
SQSTM1P	0	0.829826533	0
UNC5C-AS	2.201284833	0.829826533	0
NIPA2P3	0	0.829826533	0
ENSG0000	0	0	3.333518194
ENSG0000	0	1.659653067	0
CCL5	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
BNIP3P17	1.100642416	0	0
ENSG0000	86.95075089	157.6670413	15.55641824
LINC02427	1.100642416	3.319306133	0
ENSG0000	0	0	2.222345463
ENSG0000	9.905781747	4.9789592	5.555863657
ENSG0000	6.603854498	7.4684388	4.444690926
ENSG0000	9.905781747	2.4894796	0
ENSG0000	2.201284833	0.829826533	0
LINC02332	1.100642416	0	1.111172731
PPIAL4E	1.100642416	0	0
PRKACB-I	2.201284833	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC02550	0	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	1.111172731
LIX1L	187.1092108	96.25987787	506.6947655
KRT8P49	0	0.829826533	0
MILR1	72.64239948	29.8737552	18.88993643
RBISP4	0	0.829826533	0
ATP2B1-A	2.201284833	2.4894796	0
IGHV3OR	0	0.829826533	0
PSMA6P4	1.100642416	0	0
H3P42	0	0.829826533	0
SLC46A2-A	3.301927249	0.829826533	0
PDCD6IP-I	12.10706658	13.27722453	0
IRF2-DT	8.80513933	4.9789592	0
KRT8P47	0	0	6.667036389
ENSG0000	0	1.659653067	0
ENSG0000	0	2.4894796	2.222345463
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	4.444690926
TNPO3P1	0	1.659653067	0

MTND5P1	0	0.829826533	0
ENSG0000	0	0	3.333518194
RPL17P3	0	0	1.111172731
ATP1B3P1	1.100642416	0	2.222345463
ENSG0000	0	0.829826533	0
SAP30P1	1.100642416	0	2.222345463
ENSG0000	0	1.659653067	0
FAM169A	1.100642416	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
MROH7-T	3.301927249	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	4.402569665	1.659653067	5.555863657
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	17.61027866	17.4263572	35.55752741
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
RN7SKP29	0	0.829826533	0
ENSG0000	0	6.638612267	6.667036389
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	6.603854498	11.61757147	0
ENSG0000	2.201284833	9.9579184	0
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	4.9789592	2.222345463
ENSG0000	13.207709	8.298265334	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	2.4894796	0
ENSG0000	14.30835141	9.128091867	0
BMS1P4.1	5.503212081	6.638612267	3.333518194
RN7SKP4	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
SMIM32	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	8.298265334	0
ENSG0000	3.301927249	8.298265334	1.111172731
ENSG0000	0	1.659653067	0
SYNPO2L	6.603854498	6.638612267	4.444690926
LINC0234	2.201284833	0	0
ENSG0000	6.603854498	8.298265334	0
SNORD11	3.301927249	2.4894796	0

ENSG0000	3.301927249	4.149132667	0
LINC0121	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	31.91863007	2.4894796	13.33407278
ENSG0000	1.100642416	3.319306133	0
ENSG0000	3.301927249	7.4684388	0
DCTN6-D	1.100642416	17.4263572	17.7787637
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	4.149132667	0
MIR98	1.100642416	0.829826533	0
JARID2-D	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
SNORA35	4.402569665	0.829826533	0
ENSG0000	5.503212081	0.829826533	0
TAGAP-A	16.50963624	9.9579184	17.7787637
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	7.704496914	5.808785734	0
ENSG0000	6.603854498	8.298265334	7.77820912
ENSG0000	2.201284833	1.659653067	0
ENSG0000	3.301927249	34.02288787	10.00055458
TPM4P2	52.83083598	29.04392867	22.22345463
ENSG0000	0	39.00184707	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ARFGEF1-	3.301927249	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	7.704496914	12.447398	0
ENSG0000	8.80513933	11.61757147	1.111172731
ENSG0000	0	4.9789592	1.111172731
ENSG0000	2.201284833	3.319306133	5.555863657
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	17.7787637
ENSG0000	0	0	6.667036389
TTC32-DT	2.201284833	1.659653067	0
ENSG0000	2.201284833	0	0
LINC0297	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	5.808785734	1.111172731
ENSG0000	1.100642416	0	0

ENSG0000	0	0.829826533	2.222345463
RNU6-87P	1.100642416	0	0
ENSG0000	18.71092108	17.4263572	31.11283648
ANKRD34	22.01284833	27.3842756	32.22400921
ENSG0000	2.201284833	23.23514293	0
SNORD14	0	3.319306133	0
ENSG0000	6.603854498	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	0
GTF2H5	125.4732355	345.2078379	201.1222644
ENSG0000	1.100642416	0	0
ENSG0000	15.40899383	17.4263572	11.11172731
RNU6-6P	0	0.829826533	0
ENSG0000	6.603854498	6.638612267	0
ENSG0000	1.100642416	41.49132667	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	4.149132667	17.7787637
ENSG0000	2.201284833	19.08601027	0
FCHO2-DT	0	0.829826533	0
ENSG0000	0	2.4894796	1.111172731
GOLPH3-I	4.402569665	15.76670413	0
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	2.4894796	0
RN7SL715	0	0.829826533	0
TMEM14E	0	4.149132667	1.111172731
ENSG0000	3.301927249	0.829826533	4.444690926
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	15.40899383	24.06496947	44.44690926
ENSG0000	0	1.659653067	12.22290005
ENSG0000	0	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	7.704496914	2.4894796	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	4.9789592	2.222345463
LINC0160	2.201284833	4.149132667	1.111172731
ENSG0000	12.10706658	3.319306133	1.111172731
ENSG0000	4.402569665	5.808785734	2.222345463
LYRM4-A	18.71092108	34.8527144	0
FGF14-AS	0	0.829826533	0
ENSG0000	0	0.829826533	0
NFYC-AS1	6.603854498	9.128091867	0
ARF4-AS1	0	1.659653067	0

ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	6.603854498	3.319306133	2.222345463
ENSG0000	2.201284833	1.659653067	6.667036389
ENSG0000	9.905781747	0	0
ENSG0000	0	0.829826533	0
CASC15	24.21413316	15.76670413	1.111172731
KLC4-AS1	0	0	5.555863657
ENSG0000	0	1.659653067	0
ENSG0000	7.704496914	19.9158368	20.00110917
ENSG0000	8.80513933	1.659653067	0
ENSG0000	2.201284833	1.659653067	1.111172731
MAP7-AS1	1.100642416	3.319306133	0
PDE7A-DT	0	0.829826533	0
ENSG0000	8.80513933	8.298265334	12.22290005
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
POU2F1-D	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
U7	2.201284833	2.4894796	0
ENSG0000	9.905781747	9.128091867	2.222345463
ENSG0000	2.201284833	3.319306133	2.222345463
ENSG0000	0	0.829826533	0
RN7SL726	1.100642416	0	6.667036389
ENSG0000	2.201284833	0.829826533	0
ENSG0000	4.402569665	0	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
LINC0174	0	0	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	5.503212081	9.128091867	0
NUP153-A	2.201284833	1.659653067	7.77820912
LINC0055	1.100642416	0.829826533	0
ENSG0000	2.201284833	7.4684388	1.111172731
ENSG0000	0	2.4894796	0
ILRUN-AS	2.201284833	5.808785734	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	19.81156349	9.128091867	22.22345463
ENSG0000	1.100642416	2.4894796	0
ENSG0000	31.91863007	29.04392867	1.111172731
TTC23L-A	3.301927249	8.298265334	0
DAP-DT	3.301927249	3.319306133	0

NUDT3	150.788011	190.0302761	196.6775735
ENSG0000	0	4.149132667	2.222345463
KMT2B	2109.931512	1560.073883	3539.08515
ENSG0000	3.301927249	0	0
ENSG0000	5.503212081	11.61757147	1.111172731
RNU6-90P	0	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	5.503212081	4.9789592	1.111172731
ENSG0000	1.100642416	0.829826533	0
SNORD11	0	0.829826533	0
ENSG0000	6.603854498	11.61757147	4.444690926
ENSG0000	64.93790256	14.9368776	27.77931829
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	1.111172731
SCUBE3-A	18.71092108	27.3842756	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	8.80513933	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
POM121C	1594.830861	604.1137163	897.827567
ENSG0000	0	0	2.222345463
CD24	416.0428334	2280.363314	1270.070432
ENSG0000	4.402569665	1.659653067	0
FAM47E-S	0	0	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	5.808785734	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	3.319306133	3.333518194
ENSG0000	4.402569665	23.23514293	1.111172731
LINC0263	0	0	1.111172731
ZNF454-D	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
CUX2P1	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	9.128091867	1.111172731
ENSG0000	1.100642416	0.829826533	0
MRPL20-D	3.301927249	8.298265334	6.667036389
MIR432	0	0.829826533	7.77820912
FAM193B-	1.100642416	0.829826533	0

LINC0298(	7.704496914	45.64045934	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	8.298265334	0
ENSG0000	0	4.9789592	1.111172731
RN7SL760	0	2.4894796	0
ENSG0000	0	6.638612267	7.77820912
ENSG0000	0	2.4894796	1.111172731
ENSG0000	4.402569665	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	24.21413316	12.447398	32.22400921
OR1X1P	0	0	1.111172731
ENSG0000	4.402569665	3.319306133	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	2.201284833	8.298265334	0
ENSG0000	3.301927249	0	0
ENSG0000	6.603854498	0.829826533	0
RNU6-88P	0	0.829826533	0
ENSG0000	16.50963624	8.298265334	6.667036389
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	9.9579184	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	22.01284833	39.00184707	0
LINC0102:	2.201284833	5.808785734	0
BTF3-DT	0	3.319306133	0
ENSG0000	4.402569665	0	0
SNORA28	3.301927249	8.298265334	2.222345463
LINC0253{	1.100642416	0.829826533	0
H3-3A-DT	4.402569665	5.808785734	0
CPVL-AS2	1.100642416	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
MUSTN1	1.100642416	0.829826533	14.44524551
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	37.42184215	1.659653067	11.11172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	2.4894796	2.222345463
ZSWIM8-A	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	41.82441182	99.579184	93.33850944
ZNF595	427.0492575	314.5042561	246.6803464
EFCAB10-	0	1.659653067	0
PPP4R3B-I	2.201284833	1.659653067	0

MAGI1-IT	14.30835141	15.76670413	1.111172731
FAM131B-	1.100642416	0	0
AFAP1-AS	1.100642416	2.4894796	4.444690926
ENSG0000	2.201284833	0.829826533	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	0	4.149132667	0
ENSG0000	9.905781747	35.68254093	2.222345463
ENSG0000	8.80513933	4.149132667	4.444690926
DOC2B	2.201284833	8.298265334	10.00055458
ENSG0000	4.402569665	0.829826533	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	4.149132667	0
JTB-DT	0	0.829826533	0
ENSG0000	13.207709	7.4684388	6.667036389
ENSG0000	0	0.829826533	0
PPP1R21-I	0	9.9579184	0
OR51C4P	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	55.03212081	44.8106328	17.7787637
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	2.201284833	0.829826533	0
HNRNPD-	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	0	3.319306133	0
WASL-DT	0	21.57548987	3.333518194
ENSG0000	1.100642416	11.61757147	1.111172731
ENSG0000	3.301927249	9.9579184	1.111172731
GAS6-DT	1.100642416	18.25618373	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
MESTIT1	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
HK2-DT	0	1.659653067	0
ENSG0000	0	0.829826533	0
SLC30A6-	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	15.40899383	16.59653067	1.111172731
EIF2B5-DT	0	1.659653067	1.111172731
ENSG0000	12.10706658	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ADIRF-AS	7.704496914	1.659653067	1.111172731
ENSG0000	0	2.4894796	0

ENSG0000	6.603854498	0	2.222345463
ENSG0000	1.100642416	0	6.667036389
ENSG0000	23.11349074	36.51236747	47.78042745
ENSG0000	1.100642416	1.659653067	0
WDR5B-D	35.22055732	20.74566333	3.333518194
ENSG0000	1.100642416	2.4894796	0
JMJD1C-A	9.905781747	9.128091867	18.88993643
ENSG0000	13.207709	4.9789592	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	3.301927249	4.9789592	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	9.128091867	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	0
KRTAP10-	4.402569665	4.149132667	0
ENSG0000	24.21413316	10.78774493	8.889381852
GCAWKR	7.704496914	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	2.4894796	7.77820912
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	11.00642416	15.76670413	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
MAP3K4-A	4.402569665	9.128091867	13.33407278
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	3.319306133	23.33462736
ENSG0000	1.100642416	7.4684388	1.111172731
ENSG0000	5.503212081	3.319306133	0
SUV39H2-	11.00642416	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
SAP30-DT	0	14.9368776	0
ENSG0000	4.402569665	6.638612267	2.222345463
ENSG0000	1.100642416	0	0

ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	2.4894796	0
DCP1A	695.6060071	357.6552359	406.6892197
CHASERR	141.9828717	126.1336331	18.88993643
ENSG0000	1.100642416	2.4894796	0
MIOS-DT	31.91863007	4.149132667	0
ATP6V1FI	33.01927249	14.9368776	23.33462736
OR10Q2P	1.100642416	0	0
TBC1D8-A	4.402569665	5.808785734	0
ENSG0000	0	1.659653067	0
ENSG0000	0	4.9789592	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	55.03212081	48.12993894	138.8965914
ENSG0000	18.71092108	5.808785734	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	5.808785734	17.7787637
ENSG0000	4.402569665	9.128091867	7.77820912
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	3.301927249	1.659653067	0
LRRC8D-I	3.301927249	3.319306133	0
TRIM8-DT	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	6.603854498	1.659653067	23.33462736
ENSG0000	2.201284833	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
OR7A19P	3.301927249	0.829826533	1.111172731
ENSG0000	15.40899383	7.4684388	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	7.704496914	8.298265334	2.222345463
ENSG0000	35.22055732	33.19306133	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	0
ENSG0000	0	4.149132667	0
ENSG0000	7.704496914	19.9158368	0
ENSG0000	0	1.659653067	0

OR5AL1	2.201284833	0	0
ENSG0000	16.50963624	34.02288787	6.667036389
ENSG0000	0	2.4894796	0
C2orf49-D	2.201284833	11.61757147	2.222345463
ARHGEF2	2.201284833	2.4894796	0
ARL2-SN	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	1.111172731
CSGALNA	0	4.9789592	1.111172731
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	14.9368776	0
LINC00938	41.82441182	65.55629614	7.77820912
ENSG0000	3.301927249	4.149132667	0
FAM106A	2.201284833	8.298265334	1.111172731
INTS4P2	1.100642416	0	2.222345463
ENSG0000	0	4.149132667	0
DGCR5	3.301927249	55.59837774	1.111172731
LINC0203	35.22055732	15.76670413	14.44524551
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
C2orf15	11.00642416	73.85456147	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	4.149132667	1.111172731
CDC37L1-	2.201284833	6.638612267	0
RALGPS2-	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	7.704496914	10.78774493	1.111172731
ENSG0000	2.201284833	0	0
GRIN2B	18.71092108	7.4684388	664.4812934
ENSG0000	2.201284833	7.4684388	1.111172731
LINC0307	17.61027866	7.4684388	1.111172731
ENSG0000	2.201284833	0	8.889381852
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	2.4894796	0
PPM1B-DT	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	5.808785734	0
LYPD4	1.100642416	0.829826533	20.00110917
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0

INSIG1-DT	0	1.659653067	2.222345463
ENSG0000	3.301927249	2.4894796	0
ENSG0000	0	0.829826533	0
LINC0199(	0	0.829826533	1.111172731
PACERR	1.100642416	0.829826533	0
ENSG0000	0	0	6.667036389
ENSG0000	0	0.829826533	0
NBPF26	23.11349074	14.10705107	38.8910456
SELENOO	3.301927249	5.808785734	20.00110917
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
LINC0260-	22.01284833	15.76670413	0
ENSG0000	1.100642416	2.4894796	0
LCDR	8.80513933	8.298265334	0
ENSG0000	3.301927249	0	13.33407278
ENSG0000	7.704496914	1.659653067	6.667036389
ENSG0000	2.201284833	5.808785734	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	9.905781747	2.4894796	0
SNURF	1.100642416	5.808785734	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	6.603854498	4.149132667	6.667036389
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	16.50963624	10.78774493	3.333518194
ENSG0000	4.402569665	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	4.402569665	2.4894796	11.11172731
H3-7	14.30835141	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	11.00642416	19.08601027	12.22290005
ENSG0000	3.301927249	0.829826533	0
ENSG0000	2.201284833	10.78774493	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
TMEM271	0	0.829826533	0

ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	4.149132667	0
RAB33B-A	41.82441182	96.25987787	15.55641824
ENSG0000	2.201284833	4.149132667	0
WDR5-DT	0	4.149132667	0
OR7E39P	0	0	1.111172731
TRABD-A	4.402569665	2.4894796	6.667036389
LINC0292	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
CNNM3-D	0	1.659653067	0
ENSG0000	0	0	2.222345463
LINC0307	12.10706658	5.808785734	2.222345463
ENSG0000	13.207709	4.149132667	1.111172731
ENSG0000	2.201284833	0.829826533	0
ZBTB8B	0	101.2388371	0
ENSG0000	1.100642416	0	0
ENSG0000	17.61027866	16.59653067	0
ENSG0000	15.40899383	3.319306133	0
ENSG0000	0	1.659653067	0
C1QTNF3-	9.905781747	12.447398	35.55752741
LINC0306	1.100642416	7.4684388	0
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	0.829826533	0
DGCR11	8.80513933	23.23514293	4.444690926
ENSG0000	4.402569665	0	2.222345463
ENSG0000	5.503212081	14.9368776	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	27.51606041	35.68254093	1.111172731
OR7M1P	3.301927249	3.319306133	0
ENSG0000	0	11.61757147	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
PAXIP1-D	8.80513933	13.27722453	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	12.447398	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	8.298265334	0
ENSG0000	4.402569665	2.4894796	0

ENSG0000	7.704496914	3.319306133	0
SFTPD-AS	3.301927249	4.149132667	0
SLC16A4-.	27.51606041	97.0897044	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	14.30835141	14.9368776	5.555863657
TMEM167	15.40899383	14.10705107	1.111172731
ENSG0000	4.402569665	3.319306133	4.444690926
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	4.149132667	0
LINC0139(	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	17.7787637
ENSG0000	0	4.9789592	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
LINC0271:	1.100642416	0	0
LINC0272:	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	13.207709	6.638612267	28.89049102
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	2.4894796	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	0
ENSG0000	11.00642416	11.61757147	0
ENSG0000	11.00642416	9.9579184	0
ENSG0000	7.704496914	8.298265334	0
ENSG0000	0	4.149132667	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	16.59653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0.829826533	2.222345463
ENSG0000	0	2.4894796	0
APP-DT	0	0	3.333518194
ENSG0000	1.100642416	0	0
MIR6129	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0

TBC1D3K	1.100642416	0.829826533	5.555863657
FOXD4L6	1.100642416	0	2.222345463
U1	2.201284833	0	0
ENSG0000	0	2.4894796	0
Metazoa_S	1.100642416	0.829826533	0
AGBL1	61.63597531	4.149132667	65.55919115
H4C12	24.21413316	26.55444907	10.00055458
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	3.301927249	6.638612267	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	8.298265334	0
OR10G1P	0	0	1.111172731
ENSG0000	5.503212081	4.9789592	2.222345463
PMS2P10	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	1.111172731
MIR6776	0	0	1.111172731
ENSG0000	17.61027866	19.9158368	6.667036389
ENSG0000	2.201284833	12.447398	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	9.905781747	9.9579184	4.444690926
MIR6792	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	57.23340565	91.28091867	52.22511838
BLVRBP1	1.100642416	0.829826533	0
ENSG0000	5.503212081	12.447398	0
MIR6760	1.100642416	0	0
ENSG0000	5.503212081	11.61757147	0
H2BC14	136.4796596	468.0221648	0
ENSG0000	1.100642416	7.4684388	4.444690926
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	6.667036389
ENSG0000	0	1.659653067	0
Metazoa_S	0	0.829826533	0
ENSG0000	2.201284833	9.9579184	4.444690926
5_8S_rRNA	0	0	2.222345463

ENSG0000	2.201284833	0	0
MIR6075	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	30.81798766	14.10705107	1.111172731
CYFIP1	24.21413316	8.298265334	44.44690926
ENSG0000	7.704496914	11.61757147	0
ENSG0000	9.905781747	17.4263572	2.222345463
ENSG0000	0	0.829826533	0
RNVU1-29	0	4.149132667	3.333518194
ENSG0000	1.100642416	0.829826533	0
CEACAM2	2.201284833	3.319306133	291.1272556
GTF2A1-A	1.100642416	6.638612267	3.333518194
ENSG0000	12.10706658	0.829826533	0
ENSG0000	0	7.4684388	1.111172731
H2BC8	989.4775323	3214.74799	346.6858922
ENSG0000	2.201284833	0	0
LINC0297(	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENPP7P7	0	0.829826533	0
USP27X	111.164884	184.2214904	51.11394565
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	0.829826533	11.11172731
MIR6842	0	0	1.111172731
ENSG0000	1.100642416	0	0
Metazoa_S	1.100642416	0.829826533	0
SLC25A15	1.100642416	0	0
MIR8066	2.201284833	0	0
ENSG0000	6.603854498	1.659653067	0
ENSG0000	4.402569665	0.829826533	2.222345463
NOL12	1.100642416	2.4894796	2.222345463
ENSG0000	1.100642416	1.659653067	7.77820912
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
Y_RNA.12	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
RN7SL733	0	0.829826533	0
ENSG0000	13.207709	12.447398	1.111172731
ENSG0000	0	0	1.111172731
Metazoa_S	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
H3C8	6.603854498	9.128091867	0

ENSG0000	1.100642416	3.319306133	0
ENSG0000	3.301927249	3.319306133	0
RBM17P2	1.100642416	0	0
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	0	0
Metazoa_S	0	0.829826533	0
ZFP91P1	7.704496914	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
LINC0113	56.13276323	14.9368776	8.889381852
ENSG0000	3.301927249	1.659653067	0
ENSG0000	1.100642416	8.298265334	2.222345463
FAM27E3	0	4.9789592	0
ENSG0000	2.201284833	0.829826533	12.22290005
MIR6813	0	0	5.555863657
ENSG0000	1.100642416	4.149132667	0
MIR6507	1.100642416	0	0
ENSG0000	0	0.829826533	0
CASTOR2	201.4175622	194.1794088	443.3579198
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	1.100642416	3.319306133	0
ENSG0000	5.503212081	2.4894796	0
MIR6081	1.100642416	4.9789592	0
Y_RNA.12	1.100642416	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0.829826533	0
LINC0296	15.40899383	20.74566333	0
ENSG0000	2.201284833	0	0
NATD1	19.81156349	43.98080627	91.11616398
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	2.4894796	0
ANTXRL	12.10706658	0	31.11283648
RNVU1-27	5.503212081	19.08601027	3.333518194
SOCS7	22.01284833	19.08601027	117.7843095
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
Metazoa_S	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0

HEPFAL	7.704496914	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	4.402569665	5.808785734	0
ENSG0000	2.201284833	13.27722453	0
MIR7702	0	0.829826533	0
ENSG0000	19.81156349	7.4684388	15.55641824
ENSG0000	0	6.638612267	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	104.5610295	74.684388	88.89381852
ADRA2B	6.603854498	43.98080627	20.00110917
H2BC6	107.8629568	595.815451	35.55752741
ENSG0000	0	7.4684388	0
ENSG0000	2.201284833	4.149132667	1.111172731
MIR6864	1.100642416	0	0
7SK	0	1.659653067	1.111172731
ENSG0000	5.503212081	9.9579184	0
ENSG0000	17.61027866	14.9368776	25.55697282
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	5.503212081	0	0
ENSG0000	0	3.319306133	0
ZNF658	237.7387619	75.51421454	73.33740027
FAM74A3	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
LINC0280	0	2.4894796	1.111172731
ENSG0000	0	1.659653067	0
TUBAP6	0	0	2.222345463
ADAMTS7	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	11.00642416	0	3.333518194
TMEM269	17.61027866	5.808785734	44.44690926
MIR6885	3.301927249	0	0
TPTE	3.301927249	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	0
ENSG0000	7.704496914	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
TBC1D3D	5.503212081	0	1.111172731
ENSG0000	4.402569665	21.57548987	0
ENSG0000	7.704496914	15.76670413	0

SEC22B2P	7.704496914	0	0
ENSG0000	20.91220591	62.23699	12.22290005
ENSG0000	1.100642416	0.829826533	2.222345463
C8orf89	13.207709	5.808785734	12.22290005
U2	0	1.659653067	0
GUSBP7	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
LINC0293(	1.100642416	5.808785734	1.111172731
Y_RNA.13	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0
Metazoa_S	0	1.659653067	0
TBC1D3L	14.30835141	9.9579184	104.4502368
ENSG0000	0	1.659653067	0
RCC1L	315.8843735	274.6725825	325.5736103
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	0.829826533	0
MIR223HC	7.704496914	10.78774493	1.111172731
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0.829826533	8.889381852
ENSG0000	1.100642416	3.319306133	0
ENSG0000	8.80513933	10.78774493	3.333518194
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
FAM74A4	1.100642416	0	0
ENSG0000	0	3.319306133	1.111172731
DGKK	5.503212081	1812.341149	77.7820912
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	4.9789592	0
RIMBP3B	2.201284833	1.659653067	1.111172731
PCCA-DT	3.301927249	5.808785734	7.77820912
NPEPPSP1	9.905781747	43.98080627	6.667036389
ENSG0000	1.100642416	0.829826533	0
H4C6	126.5738779	19.08601027	25.55697282
MIR6867	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
H2BC17	72.64239948	1603.224862	51.11394565
ENSG0000	8.80513933	0	0
ENSG0000	1.100642416	10.78774493	2.222345463
LINC0237	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0	0
MYO5BP1	0	0	3.333518194

ENSG0000	4.402569665	0	0
MIR6761	0	0	1.111172731
ENSG0000	0	6.638612267	0
Metazoa_S	1.100642416	1.659653067	1.111172731
MIR7974	0	0.829826533	0
ENSG0000	8.80513933	2.4894796	6.667036389
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
CCL23	5.503212081	0	0
ENSG0000	0	1.659653067	0
KRTAP7-1	2.201284833	0	0
H3C6	78.14561156	156.8372148	125.5625187
ENSG0000	9.905781747	10.78774493	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
FSIP2LP	2.201284833	0	0
ENSG0000	3.301927249	5.808785734	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	0.829826533	13.33407278
Metazoa_S	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
TBC1D3B	0	0.829826533	0
MIR6078	0	0.829826533	0
NPHP3-AC	1.100642416	2.4894796	0
MIR6772	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
MIR7152	0	0.829826533	0
LINC0129	7.704496914	0	0
ENSG0000	0	0.829826533	0
BALR6	6.603854498	0	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	7.77820912
Metazoa_S	0	0.829826533	0
ENSG0000	13.207709	0.829826533	74.44857301
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	8.298265334	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	3.319306133	0
ZKSCAN2	19.81156349	34.02288787	2.222345463
KMT2CP3	1.100642416	0	1.111172731

KRT89P	1.100642416	0	0
ENSG0000	1.100642416	0	0
MIR8083	1.100642416	0	0
ENSG0000	0	0.829826533	0
RN7SL600	1.100642416	7.4684388	0
ENSG0000	16.50963624	3.319306133	3.333518194
RNU11	0	0.829826533	0
ENSG0000	0	0.829826533	0
MIR6750	0	0	2.222345463
ENSG0000	55.03212081	2.4894796	131.1183823
H2AC12	61.63597531	1537.668566	21.1122819
ENSG0000	2.201284833	0.829826533	2.222345463
Y_RNA.13	1.100642416	0	0
ALOXE3P	11.00642416	14.10705107	2.222345463
RN7SL166	1.100642416	4.149132667	0
MLLT6	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	6.667036389
PPP4R3B	1895.306241	2015.64865	1818.989761
ENSG0000	0	9.128091867	0
ENSG0000	7.704496914	8.298265334	0
ENSG0000	4.402569665	0	0
PDE4DIPP	1.100642416	2.4894796	1.111172731
SYNRG	121.0706658	68.04577574	102.2278913
ENSG0000	0	1.659653067	0
NUDT18	19.81156349	14.10705107	44.44690926
SNORD91	6.603854498	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	3.333518194
ZNF2	105.661672	130.2827657	116.6731368
GAGE2E	1.100642416	2.4894796	12.22290005
H4C13	130.9764475	27.3842756	14.44524551
ENSG0000	0	3.319306133	0
PDE4DIPP	66.03854498	17.4263572	53.33629111
RN7SL663	0	3.319306133	0
ENSG0000	0	4.9789592	0
ENSG0000	0	1.659653067	0
SEC22B3P	4.402569665	1.659653067	0
CCL16	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
RPL7AP45	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	10.78774493	1.111172731

ENSG0000	4.402569665	30.70358173	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	2.4894796	0
LINC0296(	0	7.4684388	1.111172731
ENSG0000	0	3.319306133	0
LINC0282(	2.201284833	0	0
RNA5-8SN	13.207709	47.3001124	10.00055458
LINC0306	3.301927249	0	0
H2AC15	148.5867262	560.9627366	126.6736914
ENSG0000	7.704496914	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	124.372593	31.53340827	50.00277291
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	13.27722453	2.222345463
ENSG0000	5.503212081	0.829826533	0
PDCD6IPP	0	1.659653067	0
ENSG0000	4.402569665	2.4894796	7.77820912
SPDYE19I	2.201284833	0	14.44524551
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	0
FGD5P1	3.301927249	1.659653067	0
PRAG1	27.51606041	11.61757147	36.66870014
ENSG0000	1.100642416	3.319306133	3.333518194
LINC0304	0	1.659653067	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	0	1.659653067	10.00055458
MIR6124	1.100642416	0.829826533	0
GUSBP19	0	0.829826533	5.555863657
H3C11	70.44111464	1374.192739	28.89049102
ENSG0000	1.100642416	6.638612267	0
ENSG0000	2.201284833	7.4684388	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
FCGBP	30.81798766	46.47028587	468.9148927
ENSG0000	6.603854498	4.149132667	0
U1.1	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	2.222345463
HNF1B	115.5674537	1.659653067	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0

ENSG0000	0	2.4894796	0
ENSG0000	3.301927249	9.9579184	3.333518194
ENSG0000	1.100642416	5.808785734	0
ENSG0000	13.207709	4.149132667	0
ENSG0000	2.201284833	3.319306133	0
MIR6809	1.100642416	0	0
ENSG0000	198.1156349	717.7999514	283.3490465
ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	24.21413316	19.08601027	2.222345463
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	3.319306133	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	1.100642416	4.149132667	0
LINC0173(	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
STPG3-AS	13.207709	27.3842756	31.11283648
ENSG0000	1.100642416	1.659653067	1.111172731
ELOA3CP	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	6.603854498	0	14.44524551
ENSG0000	1.100642416	0	0
GRIFIN	0	0	4.444690926
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
XKR5	1.100642416	3.319306133	2.222345463
ANAPC1P	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	3.319306133	1.111172731
FLJ16779	1.100642416	1.659653067	1.111172731
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
MIR6796	0	0.829826533	0

H4C7	4.402569665	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
MIR6839	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
MIR6724-4	0	0.829826533	0
MIR3648-1	13.207709	5.808785734	16.66759097
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	4.9789592	0
H2BC9	117.7687385	1979.136282	30.00166375
H3C1	37.42184215	464.7028587	21.1122819
ENSG0000	4.402569665	0	1.111172731
ENSG0000	4.402569665	1.659653067	17.7787637
ENSG0000	4.402569665	11.61757147	0
ENSG0000	6.603854498	0.829826533	0
ENSG0000	0	0	5.555863657
5_8S_rRN/	25.31477557	551.8346447	133.3407278
ENSG0000	2.201284833	4.9789592	0
ZNF516-D'	3.301927249	1.659653067	1.111172731
ENSG0000	6.603854498	35.68254093	2.222345463
ENSG0000	8.80513933	9.128091867	23.33462736
ENSG0000	0	0.829826533	0
MIR8064	0	0.829826533	0
TRBV10-3	5.503212081	0	0
RIMBP3	15.40899383	26.55444907	11.11172731
EIF5P2	0	0.829826533	0
ENSG0000	4.402569665	1.659653067	0
ENSG0000	3.301927249	2.4894796	4.444690926
ENSG0000	2.201284833	1.659653067	0
LINC0308	2.201284833	0.829826533	0
ARHGAP2	40.7237694	20.74566333	20.00110917
TUBGCP5	1.100642416	9.128091867	15.55641824
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	4.9789592	0
ENSG0000	34.11991491	44.8106328	31.11283648
ENSG0000	13.207709	20.74566333	46.66925472
MIR6720	0	1.659653067	21.1122819
MIR7975	0	1.659653067	0
NAXD-AS	0	0.829826533	6.667036389
IKBKGP1	1.100642416	3.319306133	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	4.149132667	0

ENSG0000	17.61027866	58.08785734	3.333518194
ENSG0000	2.201284833	2.4894796	0
Metazoa_S	0	1.659653067	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
EIF3FP1	2.201284833	3.319306133	7.77820912
YAP1P3	1.100642416	0	0
RN7SL210	0	0	2.222345463
ENSG0000	0	1.659653067	1.111172731
ENSG0000	3.301927249	6.638612267	0
ENSG0000	0	0.829826533	0
SPATA31A	5.503212081	2.4894796	5.555863657
ENSG0000	2.201284833	0	0
ENSG0000	96.85653263	41.49132667	48.89160018
ENSG0000	5.503212081	9.9579184	0
ENSG0000	7.704496914	2.4894796	0
ENSG0000	2.201284833	2.4894796	0
SPATA31A	2.201284833	0.829826533	7.77820912
UHRF1	44.02569665	2323.514293	94.44968217
ENSG0000	0	1.659653067	0
STMN1P1	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	9.9579184	0
ENSG0000	1.100642416	0	0
MIR7156	0	0.829826533	0
ENSG0000	1.100642416	9.128091867	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	2.201284833	2.4894796	4.444690926
U4	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
THBS1-IT1	0	0.829826533	0
ENSG0000	5.503212081	4.149132667	2.222345463
FUT8-AS1	0	4.9789592	0
OR13C2	4.402569665	0.829826533	45.55808199
ENSG0000	0	1.659653067	0
ENSG0000	0	12.447398	0
ENSG0000	2.201284833	3.319306133	1.111172731
MIR6133	2.201284833	0	0

ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
RN7SL1	3219.379068	6266.84998	1532.307197
ENSG0000	0	2.4894796	0
H4C9	27.51606041	23.23514293	6.667036389
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	14.9368776	0
PIK3R6	31.91863007	16.59653067	46.66925472
TADA2A	11.00642416	109.5371024	12.22290005
OR4E1	1.100642416	0	10.00055458
ENSG0000	6.603854498	20.74566333	1.111172731
ENSG0000	0	0.829826533	7.77820912
ENSG0000	0	0	1.111172731
LINC0280	6.603854498	4.9789592	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	7.4684388	0
RBBP4P3	1.100642416	0	0
FRG1HP	3.301927249	9.9579184	4.444690926
PIP4K2B	0	0	1.111172731
ENSG0000	5.503212081	4.9789592	1.111172731
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	9.905781747	30.70358173	2.222345463
ENSG0000	4.402569665	15.76670413	1.111172731
ENSG0000	0	2.4894796	8.889381852
ENSG0000	4.402569665	0	0
Metazoa_S	0	0.829826533	0
H2AC14	177.203429	2212.317538	36.66870014
ENSG0000	0	0.829826533	0
UBE2NL	0	0.829826533	0
ENSG0000	0	1.659653067	0
CNTNAP3	17.61027866	3.319306133	61.11450023
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
FLJ36000	0	0	3.333518194
MIR6835	0	0.829826533	0
ENSG0000	0	0	1.111172731
H2BC3	50.62955115	282.9708479	6.667036389
ENSG0000	1.100642416	0.829826533	0
IGLL4P	0	0	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	1.659653067	0
ENSG0000	6.603854498	6.638612267	1.111172731
LINC0302	1.100642416	0	0

ENSG0000	0	7.4684388	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	16.50963624	16.59653067	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	9.9579184	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	14.30835141	4.9789592	0
ENSG0000	0	4.149132667	1.111172731
PCDHGB9	2.201284833	4.149132667	2.222345463
PCDHGB5	234.4368347	492.9169608	630.0349387
HERC2P2	1.100642416	4.9789592	8.889381852
ENSG0000	13.207709	22.4053164	4.444690926
IGKV1D-1	1.100642416	2.4894796	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	3.301927249	1.659653067	0
MIR6895	0	0.829826533	0
MRPL30P1	1.100642416	0	0
SPATA31A	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
RAB7B	31.91863007	14.10705107	44.44690926
ENSG0000	1.100642416	10.78774493	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	11.61757147	0
ENSG0000	0	0	1.111172731
DACH1	830.9850243	370.9324604	582.2545113
Metazoa_S	0	0.829826533	0
ENSG0000	7.704496914	4.9789592	0
RN7SL856	1.100642416	4.9789592	0
MIR6083	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	71.36508187	0
ENSG0000	0	1.659653067	0
TRAJ36	16.50963624	0.829826533	5.555863657
RNA5-8SN	3.301927249	29.04392867	16.66759097
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
CSPG4P10	0	0.829826533	0

MIR7111	0	0.829826533	0
VAMP1-A	0	0.829826533	0
ENSG0000	1.100642416	0	0
Y_RNA.13	0	0.829826533	0
ENSG0000	7.704496914	18.25618373	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	1.111172731
PADI6	0	1.659653067	1.111172731
RN7SL192	0	3.319306133	0
ENSG0000	0	2.4894796	0
MIR8073	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
MIR6780B	0	0	5.555863657
ENSG0000	11.00642416	0.829826533	0
LINC0222	0	0.829826533	0
ENSG0000	8.80513933	8.298265334	1.111172731
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	0	1.659653067	0
CDRT15P(	2.201284833	0	0
Metazoa_S	0	0.829826533	0
PMS2P13	2.201284833	0.829826533	1.111172731
ENSG0000	11.00642416	6.638612267	0
ENSG0000	0	0	5.555863657
ENSG0000	2.201284833	4.149132667	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	2.201284833	16.59653067	0
5S_rRNA	1.100642416	0	0
ENSG0000	4.402569665	6.638612267	12.22290005
ENSG0000	0	0.829826533	0
ENSG0000	16.50963624	0.829826533	0
ENSG0000	0	48.12993894	3.333518194
H2AC16	165.0963624	1893.664149	38.8910456
ENSG0000	3.301927249	7.4684388	0
LINC0307	0	0.829826533	0
ENSG0000	0	3.319306133	1.111172731
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
TRBV12-4	1.100642416	0	0
RN7SL769	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	3.301927249	0.829826533	0

H4C5	1423.130644	5928.280754	2211.233736
HYDIN2	88.0513933	56.42820427	201.1222644
ENSG0000	4.402569665	4.9789592	5.555863657
DUSP12P1	0	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	6.603854498	9.128091867	0
TEX28P3	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	7.77820912
SUNO1	1.100642416	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
RMRP	1485.867262	6241.955184	555.5863657
ENSG0000	9.905781747	1.659653067	1.111172731
RNA5SP53	0	1.659653067	0
ENSG0000	0	0.829826533	0
H2AC8	626.2655349	2682.829182	317.7954012
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ANKRD20	2.201284833	2.4894796	0
ENSG0000	16.50963624	13.27722453	0
Metazoa_S	0	0.829826533	0
PMS2P14	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	3.319306133	1.111172731
ENSG0000	2.201284833	0	0
TYW1B	478.7794511	178.4127047	432.2461925
F8A3	4.402569665	4.149132667	2.222345463
ENSG0000	11.00642416	17.4263572	1.111172731
ENSG0000	8.80513933	8.298265334	1.111172731
TOMM40P	1.100642416	0	0
H4C4	154.0899383	32.3632348	27.77931829
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	8.298265334	74.44857301
CCDC92B	1.100642416	43.15097974	0
MIR8063	1.100642416	0	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0	2.222345463
SPANXA2	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	1.111172731
H2BC7	753.9400552	3457.057338	118.8954823
GTSE1-DT	0	1.659653067	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	4.444690926
CICP28	0	0	1.111172731
PCGF2	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
IGHV1OR2	0	0	6.667036389
RAB35-AS	9.905781747	19.08601027	1.111172731
ENSG0000	1.100642416	14.10705107	0
LINC0288	0	0.829826533	6.667036389
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	4.444690926
GOLGA6L	0	0	3.333518194
ENSG0000	1.100642416	2.4894796	0
SPDYE20I	0	1.659653067	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	12.447398	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
SRCIN1	14.30835141	15.76670413	71.11505481
ENSG0000	0	2.4894796	0
ENSG0000	5.503212081	1.659653067	0
ENSG0000	0	1.659653067	0
MIR6724-3	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	0
Metazoa_S	0	0	2.222345463
GPR179	0	2.4894796	18.88993643
ENSG0000	0	2.4894796	0
ENSG0000	0	4.149132667	0
ENSG0000	0	3.319306133	0
ENSG0000	0	2.4894796	13.33407278
KDM5DP1	3.301927249	0.829826533	0
MARCKS	562.4282747	526.1100222	345.5747195
ENSG0000	1.100642416	0	0
CEBPB-AS	1.100642416	3.319306133	1.111172731
ENSG0000	0	2.4894796	0
RN7SL473	0	1.659653067	0
ENSG0000	0	1.659653067	0

ZNF670	56.13276323	130.2827657	52.22511838
ENSG0000	0	0.829826533	0
ENSG0000	27.51606041	22.4053164	10.00055458
PKD1L3	26.41541799	25.72462253	28.89049102
SAGE3P	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	1.111172731
GPIHBP1	4.402569665	6.638612267	8.889381852
SLCO4A1-	0	1.659653067	0
ENSG0000	4.402569665	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
MIR8078	1.100642416	0.829826533	0
LINC0179(	0	0.829826533	0
PNMA8C	0	0.829826533	0
ENSG0000	5.503212081	17.4263572	0
CT47C1	2.201284833	0	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0.829826533	0
OR13C5	4.402569665	5.808785734	18.88993643
ENSG0000	2.201284833	4.9789592	0
ENSG0000	6.603854498	1.659653067	1.111172731
ENSG0000	0	2.4894796	2.222345463
ENSG0000	1.100642416	5.808785734	0
NEFL	11.00642416	1.659653067	1.111172731
ENSG0000	1.100642416	1.659653067	0
MIR6806	1.100642416	0	0
MIR7845	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
RNVU1-4	1.100642416	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
PGM5P3-A	0	0.829826533	0
Y_RNA.13	0	0.829826533	0
CHD9NB	4.402569665	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	38.52248457	23.23514293	51.11394565
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
MIR6739	1.100642416	0	0
ENSG0000	7.704496914	15.76670413	1.111172731
ENSG0000	0	0.829826533	0

ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	4.149132667	0
NBEAP5	1.100642416	0	0
MIR6856	0	0	2.222345463
ENSG0000	4.402569665	2.4894796	0
H3C5P	0	1.659653067	0
Metazoa_S	0	0.829826533	0
ENSG0000	17.61027866	4.149132667	5.555863657
TRAC	198.1156349	4.149132667	7.77820912
ENSG0000	2.201284833	0.829826533	2.222345463
5_8S_rRN/	0	2.4894796	30.00166375
GOLGA6L	3.301927249	0	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	2.201284833	3.319306133	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	5.808785734	1.111172731
RBM22P4	0	0.829826533	0
H3C7	73.74304189	1930.176517	33.33518194
ENSG0000	0	3.319306133	0
PSMB3	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	0	3.319306133	0
ENSG0000	0	5.808785734	0
ENSG0000	1.100642416	3.319306133	2.222345463
ENSG0000	4.402569665	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
MIR6811	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
GOLGA6L	2.201284833	1.659653067	4.444690926
ENSG0000	1.100642416	1.659653067	30.00166375
ENSG0000	2.201284833	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
NLRP3P1	0	0.829826533	0
SRD5A2	38.52248457	3.319306133	27.77931829
MLECP1	0	0.829826533	0
DDX6P2	0	0.829826533	0
OR52E5	2.201284833	0.829826533	6.667036389
ENSG0000	0	1.659653067	0
ENSG0000	9.905781747	1.659653067	0
MIR8075	0	1.659653067	1.111172731

ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	5.555863657
ENSG0000	2.201284833	1.659653067	0
SENP3-EIF	2.201284833	7.4684388	5.555863657
Metazoa_S	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	3.319306133	2.222345463
ENSG0000	4.402569665	0	2.222345463
LINC0235	0	0	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	2.201284833	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	11.00642416	7.4684388	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0	1.111172731
TRBV7-9	6.603854498	0	0
ENSG0000	4.402569665	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	5.808785734	0
U2.1	4.402569665	18.25618373	0
DDX52	161.7944352	139.4108576	98.8943731
ENSG0000	1.100642416	3.319306133	0
TEX28	3.301927249	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
MIR6726	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LUNAR1	0	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
MIR6757	1.100642416	0	4.444690926
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	0.829826533	0
ZNF8	49.52890873	137.7512045	18.88993643
ENSG0000	2.201284833	1.659653067	0
ENSG0000	19.81156349	39.8316736	1.111172731
NF1P7	0	0.829826533	0
TSC22D1-	13.207709	3.319306133	2.222345463
GLIDR	9.905781747	18.25618373	2.222345463

ENSG0000	0	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
RNA5-8SN	1.100642416	8.298265334	2.222345463
ENSG0000	1.100642416	0	0
SSTR3	7.704496914	7.4684388	11.11172731
IGLV2-8	11.00642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
RNA5-8SN	0	0.829826533	2.222345463
ENSG0000	5.503212081	3.319306133	0
CKAP2-DT	0	8.298265334	1.111172731
Metazoa_S	0	0.829826533	0
MIR6803	1.100642416	0	4.444690926
KMT2CP1	2.201284833	0	3.333518194
ENSG0000	0	0.829826533	0
MIR7856	0	0.829826533	15.55641824
ENSG0000	12.10706658	20.74566333	14.44524551
TBC1D3C	3.301927249	0.829826533	3.333518194
GGNBP2	33.01927249	45.64045934	5.555863657
ZNF229	172.8008594	331.1007868	412.2450834
ENSG0000	1.100642416	0	0
VWA8-AS	0	0.829826533	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
MIR7155	1.100642416	0	0
ENSG0000	12.10706658	1.659653067	21.1122819
U4.1	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0.829826533	2.222345463
ENSG0000	8.80513933	16.59653067	1.111172731
ENSG0000	2.201284833	0	1.111172731
ENSG0000	9.905781747	23.23514293	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
PMS2P2	7.704496914	0	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	2.4894796	0

ENSG0000	2.201284833	8.298265334	2.222345463
MIR6781	0	0	1.111172731
ENSG0000	0	1.659653067	0
H2AC4	27.51606041	641.4559103	26.66814555
ENSG0000	19.81156349	10.78774493	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ZBTB2P1	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
YRDCP1	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
NPAP1L	0	0.829826533	16.66759097
ENSG0000	0	0.829826533	2.222345463
POTEB3	3.301927249	0	0
Y_RNA.13	1.100642416	0	0
CHMP1B2	14.30835141	239.8198681	2.222345463
ENSG0000	0	1.659653067	0
DHRS11	0	6.638612267	2.222345463
ACACA	489.7858753	105.3879697	107.7837549
ENSG0000	1.100642416	0	0
TMEM191	1.100642416	2.4894796	7.77820912
NR2E3	19.81156349	3.319306133	12.22290005
MIR7161	4.402569665	7.4684388	4.444690926
ENSG0000	0	0	1.111172731
ENSG0000	37.42184215	30.70358173	3.333518194
MIR6080	2.201284833	0	0
H2BC10	46.22698148	195.0092353	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
TBC1D3E	1.100642416	0	8.889381852
ENSG0000	22.01284833	12.447398	1.111172731
ENSG0000	49.52890873	18.25618373	7.77820912
RN7SL429	1.100642416	0	0
ZNF426-D	3.301927249	7.4684388	1.111172731
BEND3P3	0	0.829826533	1.111172731
ENSG0000	2.201284833	3.319306133	0
LINC0233	6.603854498	10.78774493	1.111172731
H4C1	27.51606041	919.447799	65.55919115
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	2.222345463

TRAJ37	2.201284833	2.4894796	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	5.503212081	9.128091867	1.111172731
H2AC17	8.80513933	6.638612267	0
ENSG0000	0	0	1.111172731
IQCA1L	9.905781747	4.9789592	41.11339106
ENSG0000	0	0.829826533	0
Metazoa_S	0	0.829826533	0
Metazoa_S	0	1.659653067	0
Metazoa_S	0	0.829826533	0
ENSG0000	2.201284833	17.4263572	0
H4C2	71.54175706	1488.708801	348.9082377
NKILA	8.80513933	4.149132667	1.111172731
ENSG0000	1.100642416	15.76670413	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	7.4684388	0
ENSG0000	184.9079259	271.3532764	200.0110917
ENSG0000	0	3.319306133	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	2.201284833	0.829826533	2.222345463
Metazoa_S	1.100642416	0	0
ENSG0000	1.100642416	5.808785734	0
BACE1-AS	89.15203572	75.51421454	111.1172731
ENSG0000	1.100642416	3.319306133	0
RN7SL3	88.0513933	628.1786858	80.00443666
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	0
LINC0062	11.00642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	14.30835141	13.27722453	1.111172731
Metazoa_S	0	4.9789592	2.222345463
H3C10	75.94432672	836.4651456	80.00443666
ENSG0000	3.301927249	9.128091867	0
ENSG0000	12.10706658	4.9789592	2.222345463
ENSG0000	7.704496914	30.70358173	3.333518194
ENSG0000	2.201284833	5.808785734	1.111172731
MRPL45	8.80513933	7.4684388	1.111172731
IGKV1D-1	13.207709	0	0
ENSG0000	6.603854498	10.78774493	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	1.111172731
ENSG0000	14.30835141	11.61757147	5.555863657
ENSG0000	2.201284833	6.638612267	7.77820912

ENSG0000	1.100642416	0.829826533	0
OR51G1	1.100642416	0	1.111172731
PRO1804	2.201284833	0	1.111172731
ENSG0000	4.402569665	5.808785734	4.444690926
ENSG0000	4.402569665	4.9789592	2.222345463
ENSG0000	3.301927249	4.149132667	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	2.201284833	1.659653067	15.55641824
OR2S2	4.402569665	4.9789592	11.11172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	24.06496947	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	13.207709	9.128091867	3.333518194
ENSG0000	8.80513933	1.659653067	0
ENSG0000	0	2.4894796	0
ENSG0000	5.503212081	4.9789592	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	8.80513933	0	0
ENSG0000	1.100642416	0	0
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ENSG0000	0	0	1.111172731
CEP83-DT	1.100642416	13.27722453	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.9789592	0
EPB41L4A	1.100642416	2.4894796	0
ENSG0000	0	1.659653067	0
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ENSG0000	3.301927249	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	1.111172731
ENSG0000	3.301927249	1.659653067	0
ENSG0000	9.905781747	3.319306133	0
ENSG0000	0	0	1.111172731
SMG6-IT1	1.100642416	5.808785734	0
ENSG0000	0	0	1.111172731
ENSG0000	23.11349074	9.9579184	8.889381852
ENSG0000	11.00642416	16.59653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	46.47028587	0
ENSG0000	23.11349074	36.51236747	14.44524551

ENSG0000	0	0	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	1.659653067	0
HEIH	26.41541799	54.7685512	2.222345463
ENSG0000	5.503212081	4.9789592	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
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ENSG0000	0	1.659653067	0
ENSG0000	12.10706658	28.21410213	1.111172731
ENSG0000	4.402569665	0.829826533	0
ENSG0000	7.704496914	10.78774493	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	2.222345463
ENSG0000	1.100642416	5.808785734	0
OR10A6	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	0	0	1.111172731
OR51B2	2.201284833	5.808785734	13.33407278
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
C18orf15	4.402569665	6.638612267	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	6.603854498	12.447398	10.00055458
ENSG0000	1.100642416	0.829826533	6.667036389
ENSG0000	3.301927249	18.25618373	4.444690926
ENSG0000	19.81156349	0	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	3.301927249	4.149132667	0
OR6Q1	6.603854498	1.659653067	5.555863657
AGAP14P	84.74946605	19.08601027	12.22290005
ENSG0000	23.11349074	29.04392867	4.444690926
CDRT15P8	0	0	2.222345463

HEXD-IT1	2.201284833	4.149132667	1.111172731
ENSG0000	11.00642416	14.9368776	1.111172731
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	3.301927249	0.829826533	0
SND1-IT1	5.503212081	5.808785734	1.111172731
ENSG0000	2.201284833	1.659653067	15.55641824
LINC0172	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	15.40899383	24.894796	1.111172731
ENSG0000	4.402569665	36.51236747	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	4.9789592	18.88993643
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	4.402569665	4.9789592	7.77820912
ENSG0000	0	1.659653067	2.222345463
OR10X1	3.301927249	0.829826533	0
ENSG0000	2.201284833	4.9789592	1.111172731
OR8D2	0	0	1.111172731
ENSG0000	3.301927249	4.149132667	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	26.41541799	73.02473494	16.66759097
ENSG0000	0	1.659653067	0
ENSG0000	0	4.9789592	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	0.829826533	2.222345463
LINC0145	1.100642416	2.4894796	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	2.222345463
ENSG0000	3.301927249	6.638612267	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	4.9789592	1.111172731
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	13.207709	5.808785734	5.555863657
ENSG0000	0	0	6.667036389
ENSG0000	2.201284833	4.9789592	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	15.40899383	11.61757147	2.222345463
ENSG0000	12.10706658	5.808785734	7.77820912
TSTD3	137.580302	97.0897044	54.44746384
ENSG0000	3.301927249	0	0
ENSG0000	8.80513933	6.638612267	23.33462736
ENSG0000	11.00642416	24.06496947	2.222345463
ENSG0000	8.80513933	27.3842756	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	3.333518194
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	6.603854498	5.808785734	0
ENSG0000	1.100642416	1.659653067	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	12.447398	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	19.81156349	92.94057174	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	2.201284833	13.27722453	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	2.201284833	2.4894796	2.222345463
ENSG0000	1.100642416	16.59653067	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	14.30835141	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	5.503212081	3.319306133	0
ENSG0000	4.402569665	7.4684388	4.444690926

ENSG0000	49.52890873	19.9158368	30.00166375
ENSG0000	2.201284833	5.808785734	2.222345463
ENSG0000	8.80513933	4.149132667	0
ENSG0000	1.100642416	0	0
LINC0296	2.201284833	0	20.00110917
OR2L8	9.905781747	3.319306133	10.00055458
ENSG0000	2.201284833	0.829826533	0
ENSG0000	7.704496914	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	0
OR52R1	2.201284833	1.659653067	10.00055458
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	8.80513933	7.4684388	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	16.50963624	52.2790716	6.667036389
ENSG0000	8.80513933	60.57733694	3.333518194
ENSG0000	12.10706658	19.9158368	2.222345463
ENSG0000	3.301927249	6.638612267	0
ENSG0000	0	0.829826533	0
OR2T11	1.100642416	0	0
ENSG0000	4.402569665	0	0
NDUFAF2	1.100642416	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	11.61757147	0
ENSG0000	1.100642416	8.298265334	13.33407278
ENSG0000	9.905781747	9.9579184	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	9.905781747	19.08601027	30.00166375
ENSG0000	1.100642416	5.808785734	0
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	96.85653263	47.3001124	41.11339106
ENSG0000	18.71092108	9.9579184	14.44524551
ENSG0000	2.201284833	31.53340827	0
ENSG0000	11.00642416	30.70358173	0
ENSG0000	5.503212081	7.4684388	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	8.298265334	2.222345463

ENSG0000	1.100642416	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	8.298265334	0
ENSG0000	5.503212081	0	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	4.402569665	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	2.222345463
OR5L1	2.201284833	1.659653067	12.22290005
ENSG0000	0	2.4894796	1.111172731
ENSG0000	11.00642416	98.74935747	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0024	1.100642416	0	0
ENSG0000	0	1.659653067	4.444690926
ENSG0000	29.71734524	115.3458881	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	13.207709	48.95976547	2.222345463
ENSG0000	4.402569665	9.128091867	0
ENSG0000	42.92505424	7.4684388	12.22290005
ENSG0000	0	0.829826533	1.111172731
ENSG0000	3.301927249	0.829826533	0
ENSG0000	2.201284833	6.638612267	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	12.10706658	9.128091867	1.111172731
ENSG0000	0	10.78774493	1.111172731
WASH9P	28.61670282	31.53340827	53.33629111
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0	1.111172731

ENSG0000	0	0.829826533	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	11.61757147	3.333518194
ENSG0000	9.905781747	19.9158368	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	3.301927249	1.659653067	0
OR2AG1	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	7.4684388	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	6.603854498	10.78774493	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	8.80513933	10.78774493	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	4.402569665	8.298265334	0
ENSG0000	0	7.4684388	0
ENSG0000	1.100642416	4.9789592	0
OR4C16	11.00642416	1.659653067	0
ENSG0000	7.704496914	3.319306133	0
ENSG0000	7.704496914	16.59653067	2.222345463
ENSG0000	1.100642416	3.319306133	0
ENSG0000	11.00642416	8.298265334	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	15.40899383	20.74566333	2.222345463
ENSG0000	9.905781747	10.78774493	1.111172731
ENSG0000	0	14.10705107	0
ENSG0000	15.40899383	45.64045934	4.444690926
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	6.638612267	5.555863657
ENSG0000	6.603854498	8.298265334	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	6.603854498	2.4894796	16.66759097
ENSG0000	2.201284833	5.808785734	0
ENSG0000	0	0.829826533	2.222345463

ENSG0000	0	8.298265334	2.222345463
LINC0166	0	0.829826533	0
ENSG0000	2.201284833	8.298265334	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	6.638612267	1.111172731
ENSG0000	11.00642416	2.4894796	2.222345463
ENSG0000	1.100642416	9.128091867	1.111172731
ENSG0000	130.9764475	46.47028587	212.2339917
ENSG0000	1.100642416	0.829826533	3.333518194
ENSG0000	5.503212081	3.319306133	0
ENSG0000	2.201284833	38.17202053	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	282.865101	263.8848376	394.4663197
ENSG0000	0	5.808785734	0
ENSG0000	2.201284833	4.9789592	1.111172731
ENSG0000	2.201284833	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	9.905781747	0	1.111172731
ENSG0000	1.100642416	7.4684388	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	1.100642416	9.128091867	1.111172731
ENSG0000	2.201284833	0.829826533	0
LINC0021	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	12.10706658	9.128091867	1.111172731
ENSG0000	3.301927249	0	0
ENSG0000	17.61027866	26.55444907	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	0	5.808785734	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	10.00055458
ENSG0000	6.603854498	8.298265334	0
ENSG0000	0	0	4.444690926
ENSG0000	11.00642416	79.6633472	2.222345463
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ENSG0000	2.201284833	5.808785734	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0

ENSG0000	8.80513933	3.319306133	0
ENSG0000	6.603854498	4.9789592	0
ENSG0000	1.100642416	6.638612267	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	3.319306133	0
MAPT-IT1	0	0.829826533	0
AQP7P3	1.100642416	0	0
ENSG0000	36.32119974	44.8106328	15.55641824
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	9.128091867	0
ENSG0000	0	3.319306133	0
ENSG0000	41.82441182	45.64045934	48.89160018
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	13.207709	15.76670413	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	22.4053164	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	3.333518194
ENSG0000	8.80513933	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	6.603854498	7.4684388	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	27.51606041	35.68254093	4.444690926
ENSG0000	3.301927249	0	2.222345463
ENSG0000	0	2.4894796	0
ENSG0000	13.207709	29.8737552	2.222345463
ENSG0000	9.905781747	23.23514293	0
ENSG0000	12.10706658	0	2.222345463
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	41.82441182	48.95976547	11.11172731
OR5D13	0	0.829826533	0

ENSG0000	3.301927249	0	5.555863657
ENSG0000	0	9.128091867	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	6.638612267	0
ENSG0000	4.402569665	24.894796	1.111172731
ENSG0000	3.301927249	4.9789592	1.111172731
ENSG0000	11.00642416	37.342194	6.667036389
ENSG0000	6.603854498	12.447398	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
BCLAF1P2	53.9314784	91.28091867	35.55752741
ENSG0000	8.80513933	39.00184707	1.111172731
ENSG0000	1.100642416	3.319306133	0
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ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	8.80513933	4.149132667	0
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	24.894796	1.111172731
ENSG0000	3.301927249	10.78774493	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	3.301927249	0.829826533	0
ENSG0000	9.905781747	9.128091867	0
ENSG0000	3.301927249	1.659653067	0
ENSG0000	2.201284833	20.74566333	0
ENSG0000	5.503212081	6.638612267	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0290(	0	2.4894796	7.77820912
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	6.638612267	1.111172731
NCOR1P4	0	0	1.111172731
ENSG0000	0	4.149132667	0
LINC0112(	2.201284833	4.9789592	3.333518194

ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	36.51236747	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	5.503212081	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	39.8316736	1.111172731
ENSG0000	1.100642416	0	0
FLJ42393	14.30835141	22.4053164	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	19.08601027	5.555863657
ENSG0000	0	6.638612267	0
SLC7A2-IT	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
DDX11L17	2.201284833	1.659653067	1.111172731
ENSG0000	35.22055732	53.10889814	14.44524551
ENSG0000	2.201284833	0	0
ENSG0000	0	0	6.667036389
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
FLJ38576	0	2.4894796	0
ENSG0000	7.704496914	12.447398	0
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	4.402569665	4.149132667	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	3.301927249	0	12.22290005
ENSG0000	3.301927249	4.9789592	4.444690926
ENSG0000	3.301927249	1.659653067	0
CCDC28A	4.402569665	14.10705107	14.44524551
ENSG0000	3.301927249	0	5.555863657
ENSG0000	0	1.659653067	4.444690926
ENSG0000	6.603854498	13.27722453	0
GABARAI	3.301927249	6.638612267	3.333518194
ENSG0000	3.301927249	2.4894796	0
ENSG0000	0	2.4894796	1.111172731
ENSG0000	1.100642416	0.829826533	0
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ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	19.9158368	0
ENSG0000	11.00642416	9.128091867	0
ENSG0000	0	0	1.111172731
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ENSG0000	27.51606041	38.17202053	22.22345463
ENSG0000	0	5.808785734	0
ENSG0000	2.201284833	5.808785734	0
ENSG0000	5.503212081	5.808785734	1.111172731
RPL23AP6	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
OR51F1	1.100642416	1.659653067	0
ENSG0000	0	8.298265334	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	7.77820912
ENSG0000	0	4.149132667	0
ENSG0000	0	6.638612267	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	8.298265334	0
ENSG0000	3.301927249	2.4894796	0
RN7SKP23	0	0	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	9.128091867	2.222345463
ENSG0000	1.100642416	2.4894796	3.333518194
ENSG0000	2.201284833	0	0
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ENSG0000	0	3.319306133	0
LINC0291	0	1.659653067	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	16.50963624	44.8106328	1.111172731
ENSG0000	1.100642416	11.61757147	0
ENSG0000	132.07709	245.6286539	176.6764643
ENSG0000	0	3.319306133	0
ENSG0000	17.61027866	38.17202053	1.111172731
ENSG0000	1.100642416	4.149132667	0
ENSG0000	2.201284833	28.21410213	0
TBC1D22A	1.100642416	2.4894796	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0

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ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	31.53340827	0
ENSG0000	1.100642416	1.659653067	0
OR8B4	0	0	6.667036389
ENSG0000	6.603854498	1.659653067	0
ENSG0000	2.201284833	10.78774493	1.111172731
OR1B1	7.704496914	2.4894796	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	97.91953094	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	8.298265334	0
ENSG0000	3.301927249	3.319306133	1.111172731
PLAC4	0	3.319306133	11.11172731
ENSG0000	1.100642416	11.61757147	1.111172731
ENSG0000	0	0.829826533	0
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ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	19.08601027	0
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	30.70358173	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	75.94432672	99.579184	6.667036389
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.9789592	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	8.80513933	4.149132667	0
ENSG0000	2.201284833	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	6.638612267	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	4.444690926
ENSG0000	4.402569665	4.149132667	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	4.402569665	1.659653067	2.222345463
ENSG0000	3.301927249	4.149132667	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	9.128091867	1.111172731
ENSG0000	3.301927249	18.25618373	2.222345463
ENSG0000	2.201284833	16.59653067	1.111172731
ENSG0000	0	1.659653067	10.00055458
ENSG0000	12.10706658	12.447398	31.11283648
ZBTB7C-A	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	2.4894796	0
OR1S1	5.503212081	1.659653067	6.667036389
ENSG0000	3.301927249	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
UCKL1-AS	2.201284833	5.808785734	0
ENSG0000	1.100642416	4.149132667	1.111172731
ENSG0000	26.41541799	17.4263572	0
ENSG0000	0	1.659653067	0
ENSG0000	6.603854498	207.4566333	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	15.76670413	0
ENSG0000	0	153.5179087	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	21.57548987	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	5.808785734	1.111172731
ENSG0000	4.402569665	2.4894796	2.222345463
ENSG0000	2.201284833	1.659653067	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
PRAMEF2	1.100642416	0	0
ENSG0000	1.100642416	8.298265334	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	13.27722453	0
FRG1KP	0	0.829826533	1.111172731
ENSG0000	17.61027866	15.76670413	4.444690926
ENSG0000	0	0.829826533	0

ENSG0000	4.402569665	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ERICD	1.100642416	4.149132667	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	5.808785734	1.111172731
ENSG0000	4.402569665	2.4894796	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	4.149132667	2.222345463
ENSG0000	7.704496914	6.638612267	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	2.4894796	7.77820912
ENSG0000	14.30835141	3.319306133	0
ENSG0000	2.201284833	0	0
ENSG0000	48.42826632	30.70358173	5.555863657
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	10.78774493	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	34.8527144	13.33407278
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	6.638612267	0
ENSG0000	3.301927249	8.298265334	0
ENSG0000	2.201284833	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	14.30835141	36.51236747	3.333518194
ENSG0000	2.201284833	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	156.8372148	1.111172731
ENSG0000	104.5610295	44.8106328	4.444690926
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	11.00642416	14.9368776	0
ENSG0000	15.40899383	27.3842756	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	5.503212081	5.808785734	5.555863657
ENSG0000	2.201284833	2.4894796	0

ENSG0000	0	9.128091867	0
ENSG0000	1.100642416	4.149132667	0
IGHV1-69I	4.402569665	0	0
ENSG0000	4.402569665	4.149132667	20.00110917
ENSG0000	0	1.659653067	0
ENSG0000	0	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	6.603854498	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	0	4.9789592	0
ENSG0000	15.40899383	0.829826533	4.444690926
ENSG0000	62.73661773	18.25618373	4.444690926
ENSG0000	5.503212081	23.23514293	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	34.11991491	5.808785734	66.67036389
ENSG0000	0	3.319306133	1.111172731
ENSG0000	1.100642416	0.829826533	4.444690926
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	3.301927249	0.829826533	0
ASAP1-IT1	5.503212081	9.9579184	1.111172731
LINC0137	0	0.829826533	0
LINC0234	2.201284833	0	0
LINC0134	0	1.659653067	0
ENSG0000	0	39.00184707	0
PCAT14	28.61670282	0	5.555863657
THRIL	1.100642416	0.829826533	0
LINC0220	0	2.4894796	4.444690926
ENSG0000	24.21413316	12.447398	32.22400921
KCNIP4-IT	67.13918739	19.08601027	0
ENSG0000	1.100642416	0	0
CCDC163	11.00642416	14.9368776	20.00110917
PCAT5	1.100642416	1.659653067	0
LINC0194	1.100642416	0	0
LINC0123	5.503212081	7.4684388	0
EIF1B-AS1	12.10706658	11.61757147	1.111172731
ENSG0000	1.100642416	21.57548987	1.111172731
LINC0120	2.201284833	0.829826533	1.111172731
JAKMIP2-	3.301927249	0.829826533	1.111172731
PAGR1	12.10706658	24.06496947	2.222345463

LINC0029	37.42184215	32.3632348	20.00110917
LINC0083	2.201284833	0.829826533	0
ENSG0000	7.704496914	4.149132667	2.222345463
GSEC	0	4.9789592	0
CPS1-IT1	0	1.659653067	0
ENSG0000	17.61027866	43.15097974	17.7787637
MIR325HC	0	16.59653067	1.111172731
ENSG0000	0	0.829826533	0
ELDR	1.100642416	0.829826533	0
CTBP1-AS	2.201284833	1.659653067	1.111172731
LINC0116	0	4.149132667	0
RPS4Y2	6.603854498	0	0
MATR3.1	1.100642416	0	0
LINC0058	1.100642416	12.447398	0
CCAT2	4.402569665	0	1.111172731
LINC0092	12.10706658	9.9579184	2.222345463
ENSG0000	1.100642416	0	2.222345463
N4BP2L2-I	45.12633907	28.21410213	2.222345463
ENSG0000	2.201284833	0	0
TRG-AS1	5.503212081	2.4894796	0
TMEM272	1.100642416	2.4894796	0
ENSG0000	2.201284833	0	0
PTENP1-A	1.100642416	4.9789592	4.444690926
SCHLAP1	0	14.10705107	25.55697282
LINC0112	0	0.829826533	0
ENSG0000	1.100642416	0	0
NPTN-IT1	23.11349074	20.74566333	0
ENSG0000	26.41541799	60.57733694	2.222345463
SLFNL1-A	28.61670282	105.3879697	63.33684569
LINC0133	1.100642416	0	0
LINC0099	12.10706658	20.74566333	3.333518194
ENSG0000	0	2.4894796	0
HELLPAR	33.01927249	224.8829905	34.44635467
ARRDC3-A	2.201284833	0.829826533	1.111172731
RASSF1-A	2.201284833	0	2.222345463
ENSG0000	1.100642416	0	3.333518194
ABALON	2.201284833	2.4894796	2.222345463
LINC0050	8.80513933	0	1.111172731
SNHG4	4.402569665	10.78774493	1.111172731
LINC0117	22.01284833	19.9158368	0
BLACAT1	2.201284833	40.66150013	0
PANDAR	2.201284833	0	0
ENSG0000	4.402569665	9.9579184	0
ENSG0000	4.402569665	4.9789592	0

PISRT1	1.100642416	0	0
CICP14	0	0	1.111172731
DNAJB5-I	0	0	1.111172731
SEPSECS-	14.30835141	18.25618373	0
ENSG0000	3.301927249	3.319306133	0
LINC0307	3.301927249	0	0
ENSG0000	6.603854498	1.659653067	14.44524551
ENSG0000	1.100642416	0.829826533	0
SAMD12-A	0	13.27722453	1.111172731
EBLN3P	134.2783748	399.1465625	26.66814555
ENSG0000	0	1.659653067	0
LINC0053	0	1.659653067	0
RBM5-AS1	1.100642416	0	0
MIR664A	0	0.829826533	0
LINC0101	4.402569665	25.72462253	0
ERC2-IT1	0	0.829826533	0
DUX4L8	0	1.659653067	0
LINC0108	0	0.829826533	0
METTL14-	1.100642416	4.149132667	2.222345463
ENSG0000	2.201284833	0	6.667036389
LINC0123	0	0.829826533	0
LINC0055	2.201284833	0	0
LINC0060	0	0.829826533	0
ENSG0000	0	0.829826533	0
PAUPAR	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
LINC0224	2.201284833	0	0
HERC2P7	0	0	1.111172731
LINC0114	6.603854498	5.808785734	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0	11.11172731
TRBJ1-4	1.100642416	0	0
ENSG0000	2.201284833	7.4684388	1.111172731
ENSG0000	3.301927249	0	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0	7.77820912
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	1.659653067	1.111172731
HSP90AB4	7.704496914	3.319306133	0
OR4G3P	1.100642416	0	0
PEG13	14.30835141	52.2790716	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
DPRXP3	4.402569665	2.4894796	0

ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
TEX13D	1.100642416	0.829826533	5.555863657
WASH5P	2.201284833	5.808785734	1.111172731
FKBP1AP4	0	1.659653067	4.444690926
LINC0100	0	2.4894796	0
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	1.659653067	2.222345463
FAM157D	2.201284833	0	0
ADORA3	36.32119974	38.17202053	82.22678213
PGR-AS1	1.100642416	0.829826533	1.111172731
ENSG0000	0	5.808785734	0
TEX13C	4.402569665	4.9789592	17.7787637
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
FRG2EP	2.201284833	1.659653067	0
ENSG0000	1.100642416	0	0
BISPR	4.402569665	4.149132667	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	10.78774493	0
FRG1DP	16.50963624	18.25618373	10.00055458
C1orf232	2.201284833	0	0
TMEM275	3.301927249	0.829826533	0
ENSG0000	4.402569665	1.659653067	0
PTMAP12	1.100642416	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	0	0
ENSG0000	2.201284833	1.659653067	0
LINC0274	0	1.659653067	2.222345463
ENSG0000	2.201284833	0	5.555863657
ENSG0000	1.100642416	1.659653067	0
RHOXF1P	1.100642416	0	0
ENSG0000	135.3790172	222.3935109	222.2345463
PSG11-AS	1.100642416	0	0
PRNCR1	112.2655265	42.3211532	45.55808199
ENSG0000	0	0.829826533	0
PCBP2-OT	4.402569665	0.829826533	1.111172731
BTF3P16	8.80513933	4.149132667	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	8.80513933	5.808785734	0

PDCL3P2	6.603854498	1.659653067	10.00055458
ENSG0000	0	1.659653067	0
FRG1EP	12.10706658	18.25618373	7.77820912
MPP7-DT	1.100642416	0	0
ENSG0000	0	0.829826533	0
LINC0263	1.100642416	0	3.333518194
ENSG0000	5.503212081	1.659653067	4.444690926
CDC27P3	0	0.829826533	1.111172731
ATP5MC1	2.201284833	1.659653067	7.77820912
FRG1GP	14.30835141	14.9368776	3.333518194
ENSG0000	0	0	10.00055458
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	1.100642416	0	0
KLF18	8.80513933	2.4894796	122.2290005
ENSG0000	0	2.4894796	0
ENSG0000	442.4582514	351.0166236	517.8064929
ENSG0000	1.100642416	12.447398	0
FRG1FP	15.40899383	30.70358173	6.667036389
LINC0245(	1.100642416	0	0
ENSG0000	2.201284833	0	2.222345463
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
LBHD2	1.100642416	3.319306133	0
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	1.100642416	7.4684388	0
ENSG0000	24.21413316	80.49317374	50.00277291
MGC4859	1.100642416	0	0
HYMAI	13.207709	2.4894796	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	2.4894796	0
MTND2P4	0	0.829826533	0
KMT2CP4	3.301927249	1.659653067	20.00110917
ENSG0000	1.100642416	0	0
LINC0266(	2.201284833	0.829826533	3.333518194
IQCJ-SCH	13.207709	30.70358173	8.889381852
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
MIR4521	2.201284833	0.829826533	0
MIR548D1	2.201284833	16.59653067	0
ENSG0000	1.100642416	1.659653067	0
MIR6767	2.201284833	0	0
MIR2052	0	1.659653067	0

C13orf46	0	0	1.111172731
MIR4434	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	1.659653067	5.555863657
SPRR5	0	0	2.222345463
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	34.8527144	1.111172731
ENSG0000	15.40899383	8.298265334	1.111172731
ENSG0000	0	0.829826533	0
MIR384	0	0.829826533	0
MEP1AP1	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
FAM237B	0	0	2.222345463
MIR7978	3.301927249	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	11.00642416	0.829826533	0
ENSG0000	1.100642416	8.298265334	0
LINC0235	1.100642416	0	0
FAM240B	1.100642416	0	0
U6	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	6.603854498	14.10705107	1.111172731
NBPF13P	1.100642416	4.9789592	0
MIR4320	0	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	2.201284833	4.149132667	0
CFAP97D2	0	0.829826533	0
CNTNAP3	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
PET100P1	2.201284833	3.319306133	0
ENSG0000	4.402569665	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
MIR548A1	0	1.659653067	1.111172731
ENSG0000	3.301927249	0	0
U6.1	0	0.829826533	0
ENSG0000	0	12.447398	0
LINC0245	2.201284833	0	0
ENSG0000	0	0	4.444690926

MIR1244-3	0	0.829826533	0
ENSG0000	0	0.829826533	0
CSNKA2IF	0	0.829826533	0
MIR499B	2.201284833	1.659653067	22.22345463
ZNF285DF	4.402569665	4.149132667	13.33407278
GPR141BF	0	0.829826533	0
ENSG0000	0	0	1.111172731
PRIM2BP	3.301927249	0	0
HSFX4	2.201284833	0.829826533	1.111172731
MIR4454	0	1.659653067	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	3.301927249	14.10705107	0
MIR7153	0	0.829826533	0
MIR1244-2	0	1.659653067	0
LINC0190	2.201284833	0	0
ENSG0000	2.201284833	0	2.222345463
MIR3975	1.100642416	1.659653067	0
ENSG0000	2.201284833	2.4894796	0
LINC0277	0	0.829826533	0
PRRT1B	19.81156349	0	4.444690926
ENSG0000	1.100642416	0.829826533	0
MIR4317	0	1.659653067	0
ENSG0000	0	0.829826533	0
MIR520F	1.100642416	0	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	6.667036389
C19orf85	1.100642416	0	0
MTND5P4	0	0.829826533	0
ENSG0000	0	0.829826533	0
FAM169BI	3.301927249	0.829826533	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
OR4C48P	0	0	1.111172731
MIR924	0	1.659653067	0
MIR6759	0	0.829826533	0
EXOC3L2	31.91863007	25.72462253	33.33518194
ENSG0000	6.603854498	0	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0.829826533	2.222345463
MIR5583-2	0	0.829826533	0
LINC0200	1.100642416	43.98080627	0
ENSG0000	0	2.4894796	2.222345463

ENSG0000	3.301927249	0	0
ENSG0000	0	4.149132667	0
CD200LP	0	0.829826533	0
MYOCOS	3.301927249	0	0
MIR522	0	0.829826533	0
MIR6715B	1.100642416	0.829826533	0
ENSG0000	2.201284833	2.4894796	3.333518194
ENSG0000	3.301927249	2.4894796	0
MIR555	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	15.40899383	15.76670413	1.111172731
ENSG0000	2.201284833	10.78774493	0
ENSG0000	0	0.829826533	0
TAF11L13	0	0	1.111172731
ENSG0000	4.402569665	2.4894796	11.11172731
ENSG0000	5.503212081	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	2.201284833	10.78774493	6.667036389
ENSG0000	2.201284833	4.9789592	0
PLD5P1	3.301927249	9.128091867	1.111172731
ENSG0000	1.100642416	9.9579184	0
ENSG0000	1.100642416	0.829826533	0
GNG14	0	0.829826533	2.222345463
ENSG0000	1.100642416	6.638612267	3.333518194
TAF11L9	0	0.829826533	0
SLURP2	3.301927249	8.298265334	14.44524551
ENSG0000	1.100642416	0	0
MSANTD7	71.54175706	117.8353677	11.11172731
MIR5196	0	0.829826533	0
ENSG0000	7.704496914	13.27722453	3.333518194
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ATP6V0CI	1.100642416	0	0
MIR3605	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
SCO2	68.23982981	20.74566333	40.00221833
ENSG0000	1.100642416	0.829826533	0
TAF11L5	1.100642416	0	0
LINC0276	2.201284833	2.4894796	0
LINC0280	3.301927249	1.659653067	2.222345463

ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
C2orf81	3.301927249	9.128091867	2.222345463
ENSG0000	1.100642416	4.9789592	0
PERCC1	77.04496914	66.38612267	12.22290005
ENSG0000	1.100642416	0	0
ENSG0000	19.81156349	82.98265334	12.22290005
ENSG0000	0	1.659653067	0
SSU72L1	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
MIR205	2.201284833	0	0
LYNX1-SI	1.100642416	0	0
MIR133A2	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	40.7237694	24.06496947	55.55863657
LINC0122(	2.201284833	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	0	0
ENSG0000	0	2.4894796	0
ENSG0000	11.00642416	13.27722453	1.111172731
OR8B3	1.100642416	0	8.889381852
ENSG0000	3.301927249	0.829826533	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	5.503212081	29.04392867	1.111172731
SMIM44	0	2.4894796	0
ENSG0000	2.201284833	1.659653067	0
SCYGR2	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
OR4F16	1.100642416	0	1.111172731
LINC0278(	0	0.829826533	0
RPSAP56	0	0.829826533	0

LINC0278	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
OR8B2	1.100642416	0	2.222345463
ENSG0000	1.100642416	2.4894796	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	22.01284833	21.57548987	5.555863657
ENSG0000	1.100642416	0	0
LINC0260	2.201284833	3.319306133	1.111172731
LINC0280	3.301927249	0	0
TMEM247	0	0	6.667036389
ENSG0000	0	1.659653067	0
ENSG0000	5.503212081	0	3.333518194
ENSG0000	7.704496914	1.659653067	0
ENSG0000	4.402569665	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
SMIM38	1.100642416	3.319306133	1.111172731
ENSG0000	0	1.659653067	0
SCYGR7	0	0.829826533	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
OR8S1	4.402569665	1.659653067	25.55697282
TMDD1	3.301927249	0	0
ENSG0000	0	4.149132667	1.111172731
ENSG0000	0	0.829826533	2.222345463
ENSG0000	5.503212081	12.447398	8.889381852
EEF1AKM	1.100642416	10.78774493	3.333518194
TBCE	0	1.659653067	0
ENSG0000	5.503212081	3.319306133	0
ENSG0000	0	3.319306133	0
SMIM41	1.100642416	3.319306133	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	7.4684388	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
LINC0235	1.100642416	0.829826533	0
CCDC39	7.704496914	0.829826533	0
ENSG0000	12.10706658	5.808785734	1.111172731
ENSG0000	4.402569665	4.149132667	5.555863657
KRT88P	9.905781747	0	0
LRTOMT	7.704496914	6.638612267	26.66814555

ENSG0000	0	10.78774493	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	13.207709	4.9789592	6.667036389
ENSG0000	4.402569665	0	2.222345463
ENSG0000	4.402569665	8.298265334	1.111172731
ENSG0000	14.30835141	3.319306133	3.333518194
ENSG0000	11.00642416	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	5.808785734	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	13.27722453	0
SLC7A14-A	1.100642416	11.61757147	4.444690926
ENSG0000	11.00642416	18.25618373	1.111172731
ENSG0000	2.201284833	4.9789592	0
ENSG0000	0	0	5.555863657
ENSG0000	0	0	1.111172731
LINC01488	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	3.333518194
ENSG0000	2.201284833	4.9789592	2.222345463
ENSG0000	2.201284833	3.319306133	0
ENSG0000	7.704496914	0.829826533	2.222345463
ENSG0000	7.704496914	28.21410213	5.555863657
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	5.808785734	1.111172731
LINC02795	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
HULC	18.71092108	103.7283167	10.00055458
RALY-AS1	18.71092108	43.98080627	1.111172731
DINOL	0	4.149132667	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	19.81156349	15.76670413	57.78098203
ENSG0000	3.301927249	0	2.222345463
TFAP2A-A	7.704496914	25.72462253	7.77820912
ENSG0000	2.201284833	4.9789592	0
LINC00842	0	4.9789592	0

ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	7.704496914	3.319306133	32.22400921
TCF12-DT	6.603854498	19.9158368	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	4.444690926
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
LINC0247	2.201284833	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
GABPB1-I	29.71734524	52.2790716	3.333518194
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
SOD2-OT1	0	1.659653067	0
POLR2J3.1	11.00642416	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	0
TBCEL-TE	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	10.78774493	0
ENSG0000	0	0.829826533	0
ENSG0000	44.02569665	19.9158368	0
RELA-DT	2.201284833	10.78774493	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	0	2.4894796	0
LINC0292	3.301927249	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	0	3.319306133	0
ENSG0000	2.201284833	1.659653067	0

ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	31.91863007	47.3001124	113.3396186
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	11.61757147	0
ENSG0000	0	2.4894796	0
ENSG0000	3.301927249	1.659653067	6.667036389
ENSG0000	4.402569665	3.319306133	7.77820912
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	1.100642416	3.319306133	7.77820912
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	4.9789592	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	2.4894796	0
ENSG0000	0	16.59653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	4.402569665	0.829826533	1.111172731
TOP1P1	19.81156349	24.06496947	15.55641824
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	1.659653067	0
ENSG0000	4.402569665	3.319306133	1.111172731

ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	14.44524551
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	5.808785734	0
ENSG0000	1.100642416	0	0
FAM90A2	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	3.301927249	10.78774493	0
ENSG0000	0	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	6.667036389
LINC0283	1.100642416	4.9789592	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	11.00642416	4.9789592	0
ENSG0000	15.40899383	4.149132667	20.00110917
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	1.659653067	2.222345463
LINC0268	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	8.80513933	0	0
ENSG0000	1.100642416	0	10.00055458
ENSG0000	1.100642416	4.149132667	1.111172731
CDC42-AS	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	80.34689639	177.5828781	45.55808199
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
LINC0284	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
5S_rRNA.1	0	4.9789592	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0

ENSG0000	3.301927249	1.659653067	8.889381852
ANAPC1P	0	0	2.222345463
ENSG0000	35.22055732	18.25618373	15.55641824
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	1.111172731
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	2.4894796	8.889381852
ENSG0000	1.100642416	0	0
CCDC15-D	4.402569665	5.808785734	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	6.638612267	0
ENSG0000	0	1.659653067	0
KCNQ5-D	0	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	5.555863657
ENSG0000	1.100642416	0.829826533	0
ENSG0000	6.603854498	5.808785734	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	5.808785734	0
ENSG0000	4.402569665	0	1.111172731
ENSG0000	1.100642416	0	0
LINC0285	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	9.9579184	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	0

ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	15.76670413	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	6.667036389
ENSG0000	0	6.638612267	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	5.503212081	0.829826533	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	4.9789592	1.111172731
ENSG0000	4.402569665	3.319306133	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
NIPBL-DT	63.83726015	264.7146641	8.889381852
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	5.555863657
ENSG0000	0	0.829826533	0
CERNA2	1.100642416	0	0
ENSG0000	7.704496914	2.4894796	6.667036389
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	12.10706658	196.6688884	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	9.128091867	1.111172731
ENSG0000	2.201284833	5.808785734	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	6.603854498	0	0
ENSG0000	0	0	1.111172731

ENSG0000	0	0	1.111172731
ENSG0000	6.603854498	0	0
ENSG0000	1.100642416	0	2.222345463
NOTCH2N	28.61670282	34.8527144	2.222345463
LINC0282	2.201284833	3.319306133	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
PCSEAT	4.402569665	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0	6.667036389
LCAL1	0	263.8848376	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ASDURF	5.503212081	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
RCAN3AS	2.201284833	1.659653067	4.444690926
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	9.128091867	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	4.149132667	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	13.207709	22.4053164	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	16.50963624	10.78774493	5.555863657
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0

ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
LINC0296	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	4.149132667	4.444690926
ENSG0000	0	4.149132667	0
ENSG0000	5.503212081	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	40.7237694	103.7283167	40.00221833
ENSG0000	4.402569665	1.659653067	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	4.402569665	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
RNVU1-8	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
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ENSG0000	3.301927249	1.659653067	0
ENSG0000	0	0.829826533	0
CPLANE1·	2.201284833	3.319306133	1.111172731
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ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0	0
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COPG2IT1	42.92505424	31.53340827	2.222345463
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ENSG0000	1.100642416	4.149132667	1.111172731
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ENSG0000	2.201284833	0.829826533	0
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ENSG0000	0	3.319306133	0
ENSG0000	12.10706658	2.4894796	5.555863657
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ENSG0000	0	0.829826533	0
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ENSG0000	0	4.149132667	0
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ENSG0000	1.100642416	4.9789592	4.444690926
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ENSG0000	2.201284833	4.9789592	1.111172731
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ENSG0000	9.905781747	17.4263572	1.111172731
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ZBTB7C-A	0	0.829826533	0
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ENSG0000	0	0	2.222345463
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ENSG0000	7.704496914	8.298265334	1.111172731
ENSG0000	2.201284833	0	0
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MAP3K5-A	0	1.659653067	0
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ENSG0000	0	1.659653067	0
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ENSG0000	2.201284833	4.149132667	4.444690926
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ACTBP4	6.603854498	2.4894796	4.444690926
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ENSG0000	11.00642416	54.7685512	3.333518194
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ENSG0000	3.301927249	1.659653067	17.7787637
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0

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ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
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ENSG0000	2.201284833	0	2.222345463
ENSG0000	3.301927249	0	1.111172731
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ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
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ENSG0000	0	0	1.111172731
LINC0234	2.201284833	1.659653067	2.222345463
ENSG0000	3.301927249	0	0
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ENSG0000	6.603854498	0	0
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ENSG0000	6.603854498	2.4894796	0
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ENSG0000	1.100642416	3.319306133	0
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ENSG0000	1.100642416	0	0
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ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	4.149132667	4.444690926

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ENSG0000	9.905781747	19.08601027	2.222345463
ENSG0000	0	2.4894796	0
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ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	0	2.222345463
ENSG0000	7.704496914	0.829826533	7.77820912
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ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	0	0
ENSG0000	0	0.829826533	0
ENSG0000	20.91220591	10.78774493	1.111172731
ENSG0000	2.201284833	2.4894796	0
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ENSG0000	4.402569665	7.4684388	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	0
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ENSG0000	3.301927249	4.9789592	1.111172731
ENSG0000	1.100642416	0	0
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ENSG0000	11.00642416	11.61757147	0
ENSG0000	3.301927249	0	0
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ENSG0000	0	0.829826533	0
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ENSG0000	11.00642416	8.298265334	2.222345463
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ENSG0000	0	0.829826533	0
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ENSG0000	0	2.4894796	0
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LINC0294(	1.100642416	0	0
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H3C3	77.04496914	1878.727272	22.22345463
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ENSG0000	0	2.4894796	0
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ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
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LINC0299	0	0.829826533	0
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ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	1.100642416	3.319306133	0
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ENSG0000	0	0.829826533	0
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ENSG0000	0	2.4894796	0

C2orf27A	5.503212081	3.319306133	0
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ENSG0000	0	0	1.111172731
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ENSG0000	0	0	1.111172731
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ENSG0000	0	3.319306133	0
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ENSG0000	3.301927249	0.829826533	0
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ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
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ENSG0000	0	1.659653067	0
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THCAT15	0	11.61757147	1.111172731
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ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	0	1.111172731
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ENSG0000	3.301927249	0	2.222345463
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ENSG0000	2.201284833	0	2.222345463
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ENSG0000	2.201284833	4.149132667	10.00055458
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ENSG0000	1.100642416	2.4894796	24.44580009
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ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
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ENSG0000	3.301927249	0.829826533	1.111172731
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RENO1	12.10706658	20.74566333	8.889381852
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ENSG0000	2.201284833	0	0
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ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0

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ENSG0000	3.301927249	0.829826533	0
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ENSG0000	0	18.25618373	0
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ENSG0000	1.100642416	0	0
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ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
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ENSG0000	6.603854498	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
ENSG0000	2.201284833	1.659653067	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0	5.555863657
ENSG0000	0	1.659653067	0
ENSG0000	12.10706658	2.4894796	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	7.4684388	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	4.9789592	0
ENSG0000	2.201284833	9.9579184	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
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ENSG0000	1.100642416	0.829826533	0
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ENSG0000	0	0	12.22290005
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PTCSC1	0	0.829826533	0
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ENSG0000	0	0.829826533	0

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LINC0302(	1.100642416	6.638612267	4.444690926
FAM106B	19.81156349	92.94057174	16.66759097
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ENSG0000	5.503212081	0	0
ENSG0000	3.301927249	10.78774493	1.111172731
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ENSG0000	8.80513933	4.149132667	5.555863657
ENSG0000	0	0.829826533	0
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ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
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ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	11.61757147	0
DHX9-AS1	0	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	7.704496914	7.4684388	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	3.301927249	5.808785734	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	8.298265334	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	6.638612267	1.111172731
ENSG0000	0	0.829826533	0
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ENSG0000	1.100642416	0	0
ENSG0000	16.50963624	19.08601027	0
ENSG0000	1.100642416	0	0
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ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
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ENSG0000	0	0.829826533	1.111172731
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ENSG0000	0	3.319306133	1.111172731
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ENSG0000	0	1.659653067	0
ENSG0000	0	3.319306133	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	4.402569665	9.128091867	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	3.333518194
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ENSG0000	1.100642416	0	0

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EBF3-AS1	8.80513933	2.4894796	15.55641824
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ENSG0000	2.201284833	1.659653067	0
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FAM106C	161.7944352	133.6020719	150.0083187
ENSG0000	0	0	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ZNF75CP	1.100642416	0.829826533	0
ANKRD33	1.100642416	0	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	1.659653067	2.222345463
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	3.301927249	0	7.77820912
C3orf36	5.503212081	4.9789592	6.667036389
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	3.319306133	2.222345463
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
DUS4L-BC	3.301927249	2.4894796	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ZCCHC14-	0	0.829826533	1.111172731
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	68.23982981	1.659653067	3.333518194
ENSG0000	0	9.128091867	2.222345463
ENSG0000	0	0	1.111172731
C8orf44	107.8629568	159.3266944	85.56030032
ENSG0000	3.301927249	8.298265334	0

ENSG0000	1.100642416	0.829826533	0
5S_rRNA.2	0	0.829826533	1.111172731
C8orf44-S(	0	0.829826533	0
SNORA74(	1.100642416	0.829826533	0
ENSG0000	3.301927249	0.829826533	2.222345463
ENSG0000	0	1.659653067	1.111172731
ELOA3BP	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0
NPBWR1	11.00642416	24.06496947	0
ENSG0000	4.402569665	11.61757147	2.222345463
ENSG0000	3.301927249	8.298265334	0
ENSG0000	0	0.829826533	0
LNCDAT	0	20.74566333	0
CDR1	2.201284833	5.808785734	26.66814555
ACTL10	20.91220591	43.98080627	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	2.222345463
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	50.62955115	64.7264696	8.889381852
ENSG0000	1.100642416	0.829826533	1.111172731
PANO1	0	2.4894796	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	22.01284833	6.638612267	41.11339106
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	0.829826533	0
PRRC2B	4692.038621	4738.309506	7153.730045
UGT1A3	3.301927249	0	7.77820912
UGT1A5	28.61670282	0.829826533	31.11283648
ENSG0000	1.100642416	0.829826533	0
F8A2	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	5.808785734	17.7787637
ENSG0000	1.100642416	5.808785734	0
F8A1	25.31477557	76.34404107	20.00110917
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ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	12.447398	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0

ENSG0000	5.503212081	5.808785734	0
ENSG0000	3.301927249	4.149132667	0
ENSG0000	0	7.4684388	0
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ENSG0000	6.603854498	43.98080627	3.333518194
ENSG0000	4.402569665	7.4684388	0
ENSG0000	1.100642416	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	5.808785734	0
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ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
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ENSG0000	2.201284833	0.829826533	2.222345463
CTAGE4	0	0	1.111172731
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ENSG0000	0	1.659653067	0
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ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	2.4894796	0
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ENSG0000	3.301927249	14.10705107	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	5.503212081	5.808785734	0
H2AC18	46.22698148	63.06681654	4.444690926
ENSG0000	0	2.4894796	0

ENSG0000	8.80513933	15.76670413	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
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ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	5.808785734	0
ENSG0000	3.301927249	12.447398	2.222345463
ENSG0000	15.40899383	20.74566333	0
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ENSG0000	2.201284833	1.659653067	2.222345463
ENSG0000	1.100642416	0.829826533	0
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ENSG0000	5.503212081	0.829826533	0
ENSG0000	0	0.829826533	0
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ENSG0000	0	0.829826533	0
ENSG0000	0	4.149132667	0
H2AC19	29.71734524	48.95976547	8.889381852
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ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	10.78774493	0
ENSG0000	2.201284833	7.4684388	0
PPIAL4C	0	0.829826533	0
ENSG0000	1.100642416	3.319306133	0
SMANTIS	1.100642416	0.829826533	0
ENSG0000	2.201284833	2.4894796	18.88993643
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	15.76670413	16.66759097
ENSG0000	0	0.829826533	0
ENSG0000	8.80513933	45.64045934	3.333518194
ENSG0000	3.301927249	0	0
ENSG0000	4.402569665	3.319306133	0
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ENSG0000	11.00642416	8.298265334	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	1.659653067	0
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ENSG0000	0	184.2214904	0
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ENSG0000	5.503212081	32.3632348	12.22290005

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ENSG0000	6.603854498	15.76670413	1.111172731
ENSG0000	0	1.659653067	2.222345463
ENSG0000	8.80513933	9.9579184	0
ENSG0000	0	4.9789592	0
ENSG0000	7.704496914	6.638612267	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	4.402569665	7.4684388	1.111172731
ENSG0000	1.100642416	0.829826533	0
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ENSG0000	0	4.9789592	0
RPSA2	60.5353329	83.81247987	38.8910456
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ENSG0000	27.51606041	14.10705107	10.00055458
ENSG0000	4.402569665	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
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ENSG0000	1.100642416	0.829826533	0
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ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	4.444690926
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	0	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
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ENSG0000	9.905781747	10.78774493	25.55697282
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	8.298265334	0
ENSG0000	4.402569665	9.128091867	0
ENSG0000	5.503212081	25.72462253	4.444690926
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	14.10705107	0
ENSG0000	2.201284833	0	0
ENSG0000	0	4.149132667	1.111172731

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ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	6.603854498	17.4263572	0
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ENSG0000	8.80513933	4.9789592	1.111172731
ENSG0000	1.100642416	2.4894796	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	2.4894796	0
ENSG0000	4.402569665	1.659653067	2.222345463
ENSG0000	8.80513933	8.298265334	0
ENSG0000	0	3.319306133	1.111172731
ENSG0000	2.201284833	0	0
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ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	3.319306133	1.111172731
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ENSG0000	8.80513933	43.15097974	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	3.319306133	0
ENSG0000	22.01284833	15.76670413	1.111172731
ENSG0000	1.100642416	7.4684388	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	4.149132667	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
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ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
LINC0153(	1.100642416	1.659653067	0
ENSG0000	0	5.808785734	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	3.301927249	3.319306133	1.111172731
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	4.149132667	4.444690926

ENSG0000	1.100642416	6.638612267	0
ENSG0000	7.704496914	5.808785734	1.111172731
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	1.659653067	2.222345463
ENSG0000	48.42826632	6.638612267	10.00055458
ENSG0000	0	0.829826533	0
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ENSG0000	2.201284833	1.659653067	0
ENSG0000	5.503212081	17.4263572	0
ENSG0000	0	0.829826533	0
ENSG0000	79.24625397	6.638612267	18.88993643
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0	2.222345463
ENSG0000	0	1.659653067	1.111172731
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ENSG0000	6.603854498	27.3842756	4.444690926
ENSG0000	9.905781747	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	11.61757147	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	3.319306133	0
ENSG0000	4.402569665	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	8.80513933	9.9579184	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	2.222345463
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	3.319306133	1.111172731
ENSG0000	3.301927249	9.128091867	1.111172731
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	5.503212081	16.59653067	8.889381852
ENSG0000	4.402569665	4.149132667	2.222345463
ENSG0000	422.6466879	426.5308382	492.24952
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ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	0	0
ENSG0000	3.301927249	3.319306133	1.111172731

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ENSG0000	1.100642416	0	0
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ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	9.128091867	0
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ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	8.298265334	0
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ENSG0000	0	4.149132667	0
ENSG0000	6.603854498	18.25618373	1.111172731
ENSG0000	1.100642416	0.829826533	0
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ENSG0000	1.100642416	2.4894796	0
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ENSG0000	1.100642416	1.659653067	0
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ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	2.4894796	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	12.447398	0
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ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	10.78774493	0
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ENSG0000	6.603854498	4.149132667	0
ENSG0000	2.201284833	4.149132667	1.111172731
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ENSG0000	2.201284833	0	0
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ENSG0000	2.201284833	8.298265334	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	3.301927249	2.4894796	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	7.4684388	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
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ENSG0000	0	1.659653067	0
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ENSG0000	1.100642416	0	1.111172731
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	0
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ENSG0000	0	4.9789592	0
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ENSG0000	0	0.829826533	1.111172731

ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	5.808785734	1.111172731
ENSG0000	1.100642416	15.76670413	0
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ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	5.808785734	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	4.9789592	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	0	4.9789592	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
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ENSG0000	1.100642416	1.659653067	0
ENSG0000	5.503212081	10.78774493	5.555863657
ENSG0000	6.603854498	20.74566333	7.77820912
ENSG0000	48.42826632	34.8527144	38.8910456
ENSG0000	0	6.638612267	0
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ENSG0000	6.603854498	6.638612267	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	1.100642416	2.4894796	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	5.808785734	1.111172731
LINC0151	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	9.9579184	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	4.149132667	1.111172731
ENSG0000	38.52248457	1.659653067	0
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	8.298265334	0
ENSG0000	1.100642416	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	18.25618373	0

ENSG0000	0	0	2.222345463
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ENSG0000	11.00642416	15.76670413	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	0.829826533	1.111172731
ENSG0000	0	0.829826533	14.44524551
ENSG0000	0	28.21410213	0
ENSG0000	4.402569665	9.9579184	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	15.76670413	2.222345463
ENSG0000	0	2.4894796	0
ENSG0000	4.402569665	6.638612267	0
ENSG0000	0	0.829826533	0
ENSG0000	0	8.298265334	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	5.503212081	5.808785734	1.111172731
ENSG0000	0	4.149132667	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	5.503212081	11.61757147	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	9.9579184	0
ENSG0000	8.80513933	7.4684388	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	56.13276323	74.684388	11.11172731
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ENSG0000	0	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	4.149132667	0
ENSG0000	3.301927249	7.4684388	0
ENSG0000	12.10706658	5.808785734	1.111172731
ENSG0000	13.207709	27.3842756	0
ENSG0000	3.301927249	3.319306133	0

ENSG0000	7.704496914	0	0
ENSG0000	0	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	10.78774493	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	13.207709	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	0	6.638612267	1.111172731
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ENSG0000	1.100642416	9.128091867	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	1.659653067	0
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ENSG0000	0	1.659653067	1.111172731
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ENSG0000	14.30835141	24.06496947	0
ENSG0000	0	5.808785734	0
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ENSG0000	0	4.9789592	1.111172731
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ENSG0000	6.603854498	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	9.128091867	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	4.9789592	2.222345463
ENSG0000	2.201284833	0	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	3.319306133	0
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ENSG0000	2.201284833	4.149132667	0
ENSG0000	0	1.659653067	0
ENSG0000	8.80513933	11.61757147	0
ENSG0000	4.402569665	4.149132667	1.111172731
ENSG0000	3.301927249	2.4894796	0
ENSG0000	0	2.4894796	1.111172731
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ENSG0000	0	9.128091867	0

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ENSG0000	0	0	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	8.298265334	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	4.402569665	4.9789592	0
ENSG0000	3.301927249	3.319306133	2.222345463
ENSG0000	0	1.659653067	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	2.201284833	8.298265334	3.333518194
ENSG0000	2.201284833	1.659653067	0
ENSG0000	4.402569665	4.9789592	1.111172731
ENSG0000	6.603854498	8.298265334	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0.829826533	7.77820912
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
LINC0306	1.100642416	0	0
ENSG0000	2.201284833	16.59653067	0
ENSG0000	0	0.829826533	0
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ENSG0000	3.301927249	5.808785734	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	3.301927249	9.9579184	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	13.207709	4.149132667	0
ENSG0000	0	0	1.111172731
ENSG0000	20.91220591	37.342194	33.33518194
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ENSG0000	2.201284833	0	0
ENSG0000	5.503212081	7.4684388	1.111172731
ENSG0000	1.100642416	1.659653067	0
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ENSG0000	5.503212081	15.76670413	0

ENSG0000	0	1.659653067	0
ENSG0000	0	0	1.111172731
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ENSG0000	0	6.638612267	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	7.704496914	8.298265334	0
ENSG0000	1.100642416	0	0
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ENSG0000	0	6.638612267	0
ENSG0000	3.301927249	12.447398	0
ENSG0000	13.207709	3.319306133	30.00166375
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ENSG0000	1.100642416	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	3.301927249	0	0
ENSG0000	0	10.78774493	0
ENSG0000	2.201284833	2.4894796	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	49.789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	4.402569665	2.4894796	14.44524551
ENSG0000	0	0	1.111172731
ENSG0000	7.704496914	7.4684388	3.333518194
ENSG0000	6.603854498	0.829826533	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
XNDC1N-A	0	0.829826533	0
PYDC5	1.100642416	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
ENSG0000	13.207709	28.21410213	72.22622754
ENSG0000	3.301927249	4.9789592	2.222345463
ENSG0000	118.869381	7.4684388	27.77931829
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0

TALAM1	1.100642416	5.808785734	10.00055458
ENSG0000	1.100642416	0	0
TARP	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	10.00055458
ENSG0000	2.201284833	1.659653067	1.111172731
FAM95A	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	11.00642416	3.319306133	3.333518194
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ENSG0000	0	0	16.66759097
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	9.128091867	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	9.128091867	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	2.201284833	3.319306133	0
ENSG0000	0	4.149132667	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	1.100642416	0	0
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ENSG0000	4.402569665	2.4894796	4.444690926
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
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ENSG0000	0	0.829826533	0
ENSG0000	102.3597447	211.605766	5.555863657
ENSG0000	3.301927249	2.4894796	0
ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0

ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	13.27722453	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	0	3.319306133	0
ENSG0000	40.7237694	0	7.77820912
ENSG0000	4.402569665	0	0
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ENSG0000	1.100642416	1.659653067	0
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ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
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ENSG0000	1.100642416	1.659653067	0
ENSG0000	2.201284833	4.149132667	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
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ENSG0000	9.905781747	0	1.111172731
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	3.319306133	1.111172731
ENSG0000	2.201284833	2.4894796	0
ENSG0000	1.100642416	0	5.555863657
ENSG0000	0	0.829826533	0
ENSG0000	0	2.4894796	0
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ENSG0000	2.201284833	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	0

ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	51.73019357	119.4950208	5.555863657
ENSG0000	3.301927249	9.128091867	2.222345463
ENSG0000	1.100642416	5.808785734	0
ENSG0000	2.201284833	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	0	3.319306133	0
ENSG0000	23.11349074	50.61941854	0
ENSG0000	0	13.27722453	1.111172731
ENSG0000	4.402569665	3.319306133	0
ENSG0000	0	1.659653067	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	19.9158368	3.333518194
ENSG0000	7.704496914	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	3.301927249	52.2790716	0
ENSG0000	0	1.659653067	0
ENSG0000	3.301927249	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	0	1.111172731
ENSG0000	4.402569665	4.149132667	2.222345463
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ENSG0000	0	2.4894796	0
ENSG0000	5.503212081	2.4894796	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	34.11991491	0	3.333518194
ENSG0000	1.100642416	11.61757147	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.9789592	0

ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	0	6.638612267	0
ENSG0000	0	1.659653067	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	0	5.808785734	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	2.4894796	0
ENSG0000	3.301927249	0	0
ENSG0000	4.402569665	6.638612267	0
ENSG0000	0	2.4894796	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	1.111172731
ENSG0000	3.301927249	8.298265334	1.111172731
ENSG0000	0	2.4894796	0
ENSG0000	17.61027866	17.4263572	1.111172731
ENSG0000	3.301927249	1.659653067	0
ENSG0000	1.100642416	4.149132667	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	4.402569665	1.659653067	0
ENSG0000	0	0	1.111172731
HOMEZ	1008.188453	475.4906036	728.9293118
ENSG0000	0	0.829826533	0
ENSG0000	3.301927249	1.659653067	0
H2BN1	1.100642416	0	0
FGD5P1.1	2.201284833	1.659653067	0
ENSG0000	1.100642416	1.659653067	3.333518194
FAM86EP	2.201284833	9.128091867	6.667036389
HERC2P3	0	0.829826533	0
ENSG0000	0	0	2.222345463
ZNF876P.1	0	7.4684388	0
ENSG0000	6.603854498	1.659653067	1.111172731
SORD2P	7.704496914	0.829826533	0
CST13P	1.100642416	0	0
ENSG0000	0	2.4894796	1.111172731
ASNSP1	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	1.100642416	0	6.667036389
ENSG0000	0	0.829826533	0
TPTEP1	11.00642416	2.4894796	8.889381852

ENSG0000	0	2.4894796	0
PI4KAP1	2.201284833	1.659653067	6.667036389
ENSG0000	11.00642416	0	0
ENSG0000	1.100642416	0	0
HSD17B7I	4.402569665	0	1.111172731
ENSG0000	0	0.829826533	0
FAM238A	0	0	1.111172731
CCNYL2.1	2.201284833	0	0
ENSG0000	14.30835141	40.66150013	15.55641824
ENSG0000	1.100642416	0	0
CYP4Z2P	0	0.829826533	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	0	0	2.222345463
CYP4F35P	1.100642416	0	0
SUGT1P3.	2.201284833	8.298265334	1.111172731
ENSG0000	0	6.638612267	3.333518194
GUSBP2.1	9.905781747	13.27722453	0
AP1B1P1	1.100642416	1.659653067	0
ENSG0000	1.100642416	6.638612267	3.333518194
ENSG0000	0	0	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	3.333518194
ENSG0000	6.603854498	1.659653067	3.333518194
ENSG0000	1.100642416	0	0
ENSG0000	4.402569665	34.8527144	11.11172731
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	10.78774493	0
CYP4F29P	0	0.829826533	0
INTS4P1.1	1.100642416	2.4894796	0
ENSG0000	47.3276239	162.6460005	15.55641824
ENSG0000	0	0.829826533	0
ADCY10P	5.503212081	7.4684388	0
LINC0068(	11.00642416	32.3632348	1.111172731
ENSG0000	0	2.4894796	0
ATP8B5P	5.503212081	0.829826533	1.111172731
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
GOLGA2P	48.42826632	140.2406841	4.444690926
ENSG0000	8.80513933	11.61757147	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	9.128091867	0

ENSG0000	3.301927249	0.829826533	0
ENSG0000	1.100642416	9.9579184	3.333518194
ENSG0000	0	2.4894796	4.444690926
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	0	1.659653067	0
ENSG0000	6.603854498	0	0
ENSG0000	1.100642416	0	0
ENSG0000	3.301927249	2.4894796	3.333518194
CEACAM2	1.100642416	0.829826533	1.111172731
CYP2G1P	7.704496914	1.659653067	2.222345463
LPAL2.1	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	4.149132667	1.111172731
ENSG0000	6.603854498	3.319306133	0
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	9.905781747	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
PYY2	0	0.829826533	2.222345463
ENSG0000	0	0.829826533	0
STAG3L5I	17.61027866	19.9158368	3.333518194
ENSG0000	12.10706658	23.23514293	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	3.333518194
ZNF286B	2.201284833	5.808785734	0
ENSG0000	0	0.829826533	0
ENSG0000	0	3.319306133	0
ENSG0000	0	0.829826533	2.222345463
POM121L9	1.100642416	6.638612267	7.77820912
ENSG0000	0	0.829826533	0
CYP4F30P	3.301927249	0	0
ENSG0000	3.301927249	0	0
FAM238C	12.10706658	13.27722453	3.333518194
ENSG0000	1.100642416	0.829826533	0
DSTNP2	2.201284833	1.659653067	0
FAM95B1	1.100642416	0	0
ZNF542P	13.207709	20.74566333	7.77820912
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	3.333518194
ENSG0000	1.100642416	0.829826533	1.111172731

ENSG0000	2.201284833	0	0
URAHP	2.201284833	0	0
ENSG0000	1.100642416	2.4894796	0
SLC25A51	1.100642416	0.829826533	0
CA5BP1.1	7.704496914	8.298265334	1.111172731
TCP10L3	0	0.829826533	1.111172731
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
UBE2Q2P1	4.402569665	0	6.667036389
ENSG0000	5.503212081	52.2790716	23.33462736
SDHAP1	12.10706658	6.638612267	2.222345463
ENSG0000	0	4.9789592	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	0	1.659653067	1.111172731
MFSD14C1	107.8629568	278.8217152	25.55697282
ENSG0000	0	0.829826533	0
ADAM20P	4.402569665	7.4684388	4.444690926
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	50.62955115	99.579184	1.111172731
ENSG0000	71.54175706	219.9040313	6.667036389
ENSG0000	6.603854498	6.638612267	0
SULT1C5P	2.201284833	0	0
C2orf83.1	1.100642416	0.829826533	8.889381852
ENSG0000	7.704496914	4.149132667	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	2.201284833	0	0
YWHAEP7	0	0.829826533	0
NXF4	0	0	1.111172731
ENSG0000	16.50963624	24.06496947	0
ENSG0000	1.100642416	3.319306133	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	68.23982981	31.53340827	8.889381852
NSUN5P2	7.704496914	9.128091867	21.1122819
ENSG0000	25.31477557	9.128091867	23.33462736
ENSG0000	6.603854498	4.9789592	2.222345463
ENSG0000	24.21413316	29.8737552	4.444690926
LRRC37A5	0	0.829826533	0
XGY2	0	8.298265334	0
CROCCP3	1.100642416	0.829826533	0

ENSG0000	0	0.829826533	0
PRAMENI	1.100642416	0	0
ENSG0000	0	1.659653067	0
ENSG0000	9.905781747	13.27722453	50.00277291
CCT6P3.1	5.503212081	0.829826533	3.333518194
NMRAL2P	0	0.829826533	1.111172731
RRN3P3	1.100642416	0	0
LINC0114	60.5353329	12.447398	14.44524551
GTF2IP1	13.207709	4.9789592	0
ENSG0000	4.402569665	6.638612267	1.111172731
CTSLP2	0	0.829826533	0
GLUD1P2	0	0.829826533	0
ENSG0000	0	1.659653067	0
ROCK1P1	8.80513933	6.638612267	3.333518194
ENSG0000	0	0.829826533	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	6.638612267	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0	2.222345463
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	1.659653067	2.222345463
PDE4DIPP	1.100642416	0	0
ENSG0000	3.301927249	9.128091867	0
ENSG0000	1.100642416	2.4894796	1.111172731
KLKP1	3.301927249	0.829826533	3.333518194
ENSG0000	1.100642416	0	0
RAET1K	1.100642416	4.149132667	0
UBBP4	0	0	1.111172731
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	13.207709	5.808785734	6.667036389
ENSG0000	0	0	2.222345463
PGM5P2	8.80513933	0.829826533	1.111172731
ENSG0000	9.905781747	8.298265334	0
LRRC37A	1.100642416	0.829826533	2.222345463
LINC0300	8.80513933	3.319306133	1.111172731
ENSG0000	5.503212081	37.342194	0
ENSG0000	15.40899383	50.61941854	22.22345463
ENSG0000	3.301927249	1.659653067	1.111172731
ENSG0000	4.402569665	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0	0
ENSG0000	4.402569665	5.808785734	0
ENSG0000	0	0.829826533	0

ENSG0000	1.100642416	3.319306133	3.333518194
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	0.829826533	1.111172731
ENSG0000	0	3.319306133	1.111172731
OR7E47P	1.100642416	3.319306133	0
ENSG0000	2.201284833	1.659653067	1.111172731
ENSG0000	1.100642416	0	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	15.40899383	22.4053164	11.11172731
ENSG0000	1.100642416	0	0
SLC6A10P	0	0	3.333518194
ZNF781.1	2.201284833	6.638612267	2.222345463
ENSG0000	82.54818122	37.342194	8.889381852
ENSG0000	40.7237694	65.55629614	4.444690926
FAM86C2I	17.61027866	17.4263572	5.555863657
ENSG0000	0	2.4894796	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	5.503212081	18.25618373	0
NBPF25P	0	2.4894796	0
ENSG0000	12.10706658	121.9845004	10.00055458
ENSG0000	0	4.9789592	0
MRPS31P5	6.603854498	0.829826533	1.111172731
FLJ43315	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	22.01284833	17.4263572	5.555863657
ENSG0000	0	0.829826533	0
AACSP1.1	9.905781747	0	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0	1.111172731
ENSG0000	0	1.659653067	0
ENSG0000	4.402569665	1.659653067	2.222345463
UBE2Q2P1	1.100642416	0	0
FKBP9P1.1	5.503212081	6.638612267	1.111172731
ENSG0000	4.402569665	1.659653067	0
TXLNGY	47.3276239	9.9579184	0
ENSG0000	1.100642416	0	0
RRP7BP	50.62955115	29.04392867	15.55641824
ENSG0000	1.100642416	7.4684388	7.77820912
ENSG0000	0	0.829826533	0
GLUD1P3.	4.402569665	2.4894796	2.222345463
ENSG0000	4.402569665	0	2.222345463
ENSG0000	0	0	2.222345463
ENSG0000	14.30835141	13.27722453	2.222345463

TEKT4P2.	7.704496914	8.298265334	3.333518194
ENSG0000	0	0.829826533	5.555863657
ABCC13	0	0.829826533	0
CATSPER2	4.402569665	6.638612267	0
ENSG0000	9.905781747	14.10705107	0
ENSG0000	27.51606041	48.95976547	5.555863657
ABCC6P1	0	1.659653067	1.111172731
CLEC4OP	0	0.829826533	0
ENSG0000	0	0.829826533	1.111172731
ENSG0000	1.100642416	2.4894796	0
ENSG0000	0	0	1.111172731
RPL23AP7	5.503212081	11.61757147	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	7.704496914	1.659653067	0
ENSG0000	5.503212081	4.149132667	2.222345463
BMS1P1.1	7.704496914	5.808785734	0
AOC4P	0	0.829826533	0
FAM86JP	11.00642416	7.4684388	16.66759097
CROCCP2	0	6.638612267	1.111172731
ENSG0000	3.301927249	1.659653067	2.222345463
ENSG0000	28.61670282	64.7264696	14.44524551
ENSG0000	14.30835141	18.25618373	11.11172731
ENSG0000	35.22055732	72.1949084	20.00110917
ZNF252P	59.43469048	113.6862351	18.88993643
ENSG0000	47.3276239	34.02288787	53.33629111
CYP2B7P	8.80513933	1.659653067	1.111172731
ALOX12P2	1.100642416	0.829826533	0
TMEM191	1.100642416	1.659653067	2.222345463
LGALS17A	0	1.659653067	0
CRYBB2P	35.22055732	26.55444907	7.77820912
NPEPPSP1	1.100642416	2.4894796	1.111172731
ENSG0000	3.301927249	4.9789592	0
CCDC144I	12.10706658	5.808785734	3.333518194
SDHAP4	28.61670282	42.3211532	3.333518194
PMS2P3	13.207709	4.149132667	2.222345463
SVIL-AS1	134.2783748	188.3706231	52.22511838
ENSG0000	0	9.128091867	12.22290005
ENSG0000	2.201284833	0.829826533	0
ENSG0000	26.41541799	69.7054288	4.444690926
ENSG0000	16.50963624	0.829826533	0
GUSBP1	0	4.149132667	0
MPHOSPH	1.100642416	0	0
BTN2A3P.	1.100642416	4.149132667	0
ENSG0000	2.201284833	0	0

LINC0088	1.100642416	3.319306133	0
ENSG0000	3.301927249	14.10705107	0
SEPTIN7P	0	0	1.111172731
TRIM16L	11.00642416	13.27722453	35.55752741
ENSG0000	1.100642416	3.319306133	0
ENSG0000	3.301927249	0	0
SIGLEC17	1.100642416	0.829826533	0
ZNF300P1	4.402569665	0.829826533	0
ENSG0000	31.91863007	24.894796	10.00055458
ZNF767P	42.92505424	32.3632348	0
DPY19L2P	2.201284833	3.319306133	1.111172731
MRPL45P2	15.40899383	13.27722453	4.444690926
ENSG0000	2.201284833	1.659653067	5.555863657
CASTOR3	212.4239863	253.0970927	235.5686191
H2BP1	5.503212081	0	0
ENSG0000	5.503212081	1.659653067	2.222345463
ANKRD36	4.402569665	3.319306133	1.111172731
PPIEL.1	30.81798766	19.9158368	76.67091847
ENSG0000	1.100642416	0.829826533	0
ENSG0000	7.704496914	6.638612267	3.333518194
ENSG0000	1.100642416	5.808785734	1.111172731
ENSG0000	1.100642416	1.659653067	0
WASH2P	1.100642416	0.829826533	0
FCGR1BP	1.100642416	0.829826533	0
ENSG0000	89.15203572	80.49317374	12.22290005
ENSG0000	2.201284833	0.829826533	0
DPY19L2P	4.402569665	27.3842756	2.222345463
AMZ2P1.1	11.00642416	10.78774493	12.22290005
EMBP1	0	2.4894796	3.333518194
ENSG0000	8.80513933	15.76670413	11.11172731
ENSG0000	4.402569665	0	0
PPP5D1P	13.207709	10.78774493	3.333518194
RP9P.1	0	1.659653067	0
ENSG0000	13.207709	4.9789592	1.111172731
AZGP1P1	5.503212081	0	0
ENSG0000	0	0.829826533	0
LSP1P5	0	0.829826533	0
NSUN5P1	24.21413316	12.447398	7.77820912
SBDSP1	24.21413316	11.61757147	0
STAG3L4	19.81156349	24.06496947	26.66814555
PMS2P4	130.9764475	64.7264696	208.9004735
ENSG0000	1.100642416	6.638612267	0
LINC0086	14.30835141	9.128091867	1.111172731
ENSG0000	0	1.659653067	5.555863657

C3P1.1	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	9.9579184	0
ENSG0000	0	0	1.111172731
ENSG0000	7.704496914	24.06496947	1.111172731
ENSG0000	3.301927249	15.76670413	0
ENSG0000	0	0.829826533	0
ENSG0000	14.30835141	0.829826533	42.22456379
ENSG0000	22.01284833	13.27722453	21.1122819
ENSG0000	95.75589022	66.38612267	47.78042745
ENSG0000	1.100642416	2.4894796	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	2.201284833	0.829826533	1.111172731
ENSG0000	17.61027866	29.8737552	10.00055458
ENSG0000	1.100642416	0.829826533	0
ENSG0000	1.100642416	78.83352067	3.333518194
ENSG0000	11.00642416	63.89664307	1.111172731
ENSG0000	0	0.829826533	0
KRT16P3	0	0.829826533	0
RHOXF1P	2.201284833	1.659653067	0
ENSG0000	40.7237694	37.342194	10.00055458
ENSG0000	27.51606041	27.3842756	3.333518194
ENSG0000	49.52890873	32.3632348	12.22290005
GTF2IRD1	0	0.829826533	4.444690926
ENSG0000	42.92505424	13.27722453	2.222345463
ENSG0000	11.00642416	20.74566333	2.222345463
ENSG0000	3.301927249	0	0
ENSG0000	1.100642416	0	0
DPY19L2P	3.301927249	1.659653067	1.111172731
ENSG0000	25.31477557	53.10889814	12.22290005
ENSG0000	16.50963624	17.4263572	2.222345463
ENSG0000	1.100642416	0	0
ENSG0000	1.100642416	1.659653067	0
ENSG0000	6.603854498	52.2790716	2.222345463
ENSG0000	3.301927249	0.829826533	1.111172731
ENSG0000	7.704496914	7.4684388	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	0.829826533	0
ENSG0000	4.402569665	2.4894796	1.111172731
ENSG0000	0	0	1.111172731
SOD2	3132.428317	1398.257709	2097.894117
ENSG0000	1.100642416	0	12.22290005
ENSG0000	1.100642416	1.659653067	0
ENSG0000	0	0.829826533	0

ENSG0000	0	0.829826533	0
ENSG0000	0	4.9789592	0
ENSG0000	1.100642416	0	0
ENSG0000	0	0.829826533	0
ENSG0000	0	23.23514293	7.77820912
ENSG0000	0	0.829826533	0
SMG1P7.1	4.402569665	1.659653067	0
ENSG0000	2.201284833	0.829826533	0
ENSG0000	3.301927249	3.319306133	0
SMG1P5.1	2.201284833	2.4894796	2.222345463
ENSG0000	0	0.829826533	0
ENSG0000	6.603854498	4.149132667	46.66925472
ANKRD20	1.100642416	0	0
ENSG0000	6.603854498	6.638612267	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	1.111172731
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	2.201284833	0	0
ENSG0000	11.00642416	13.27722453	0
TMEM276	70.44111464	97.91953094	230.0127554
ENSG0000	1.100642416	2.4894796	8.889381852
ENSG0000	5.503212081	30.70358173	0
ADIPINT	0	0.829826533	0
ENSG0000	1.100642416	0.829826533	0
ENSG0000	0	0.829826533	0
ENSG0000	0	1.659653067	0
ENSG0000	1.100642416	0	0
ASMTL-A	0	0	1.111172731
IL3RA	1.100642416	5.808785734	0
P2RY8	1.100642416	0.829826533	0
SLC25A6	191.5117804	90.45109214	66.67036389
DHRSX	6.603854498	3.319306133	35.55752741
ASMTL	55.03212081	31.53340827	38.8910456
LINC0010(	0	0.829826533	1.111172731
AKAP17A	12.10706658	21.57548987	62.22567296
PLCXD1	1.100642416	13.27722453	0
ZBED1	6.603854498	9.128091867	2.222345463
CD99	80.34689639	42.3211532	67.78153662
SHOX	1.100642416	0	0
CSF2RA	27.51606041	5.808785734	1.111172731
GTPBP6	31.91863007	48.12993894	93.33850944
CD99P1	0	0.829826533	0

Supplementary Table 4. Differential gene expression between samples by fold change and log2 value of the fold change.

Dura Ad vs Primary Prostate				
Gene	Primary Ad	Dura Ad	Fold Change (FC)	log2FC
GJB6	0	557.8087112	617.8552649	9.271125
SERPIND1	0	216.6786826	617.8552649	9.271125
ALLC	0	153.3418369	617.8552649	9.271125
VCX3A	0	80.00443666	617.8552649	9.271125
ALX3	0	72.22622754	617.8552649	9.271125
DACH2	0	55.55863657	617.8552649	9.271125
FAM47C	0	51.11394565	617.8552649	9.271125
OLAH	0	48.89160018	617.8552649	9.271125
TMEM171	0	45.55808199	617.8552649	9.271125
LRRC71	0	45.55808199	617.8552649	9.271125
SYT3	0	45.55808199	617.8552649	9.271125
CCDC153	0	44.44690926	617.8552649	9.271125
RFPL4A	0	41.11339106	617.8552649	9.271125
NODAL	0	40.00221833	617.8552649	9.271125
CNGA3	0	37.77987287	617.8552649	9.271125
PDHA2	0	33.33518194	617.8552649	9.271125
SH2D6	0	32.22400921	617.8552649	9.271125
UBL4B	0	32.22400921	617.8552649	9.271125
THEM5	0	32.22400921	617.8552649	9.271125
PSD2	0	31.11283648	617.8552649	9.271125
OR1L1	0	31.11283648	617.8552649	9.271125
TFDP1P2	0	31.11283648	617.8552649	9.271125
CTRC	0	30.00166375	617.8552649	9.271125
5_8S_rRNA.2	0	30.00166375	617.8552649	9.271125
TFAP2D	0	28.89049102	617.8552649	9.271125
CBLIF	0	28.89049102	617.8552649	9.271125
AQP10	0	28.89049102	617.8552649	9.271125
OR4C3	0	28.89049102	617.8552649	9.271125
PRAMEF20	0	28.89049102	617.8552649	9.271125
OR1M1	0	27.77931829	617.8552649	9.271125
TMEM139	0	27.77931829	617.8552649	9.271125
DDN	0	27.77931829	617.8552649	9.271125
OPN1MW	0	27.77931829	617.8552649	9.271125
ICAM4	0	26.66814555	617.8552649	9.271125
RCVRN	0	26.66814555	617.8552649	9.271125
CYP1A2	0	26.66814555	617.8552649	9.271125
TBPL2	0	26.66814555	617.8552649	9.271125
OR13C8	0	26.66814555	617.8552649	9.271125
OR51A2	0	26.66814555	617.8552649	9.271125
RGR	0	25.55697282	617.8552649	9.271125
SST	0	25.55697282	617.8552649	9.271125
MRAP	0	25.55697282	617.8552649	9.271125
SCHLAP1	0	25.55697282	617.8552649	9.271125
ZIC3	0	24.44580009	617.8552649	9.271125
TMEM42	0	24.44580009	617.8552649	9.271125
ENSG000002	0	24.44580009	617.8552649	9.271125
CYP11B2	0	23.33462736	617.8552649	9.271125
MCCC1-AS1	0	23.33462736	617.8552649	9.271125
TNNC2	0	22.22345463	617.8552649	9.271125
LBP	0	22.22345463	617.8552649	9.271125
ADAM30	0	22.22345463	617.8552649	9.271125
OR4C15	0	22.22345463	617.8552649	9.271125
OR52E6	0	22.22345463	617.8552649	9.271125
OR5M11	0	22.22345463	617.8552649	9.271125
TAS1R1	0	21.1122819	617.8552649	9.271125
OR6B3	0	21.1122819	617.8552649	9.271125
OR52E4	0	21.1122819	617.8552649	9.271125
VN1R2	0	21.1122819	617.8552649	9.271125
ASCL5	0	21.1122819	617.8552649	9.271125
GYPB	0	21.1122819	617.8552649	9.271125
ENSG000002	0	21.1122819	617.8552649	9.271125
MIR6720	0	21.1122819	617.8552649	9.271125
G6PC1	0	20.00110917	617.8552649	9.271125
SLC5A10	0	20.00110917	617.8552649	9.271125
VPREB1	0	20.00110917	617.8552649	9.271125
RNASE8	0	20.00110917	617.8552649	9.271125
ZSCAN5C	0	20.00110917	617.8552649	9.271125
ENSG000002	0	20.00110917	617.8552649	9.271125
TEX13A	0	20.00110917	617.8552649	9.271125
DAZL	0	18.88993643	617.8552649	9.271125
PIK3R2	0	18.88993643	617.8552649	9.271125
NOBOX	0	18.88993643	617.8552649	9.271125
ACP4	0	18.88993643	617.8552649	9.271125
DAPL1	0	18.88993643	617.8552649	9.271125
OR2AT4	0	18.88993643	617.8552649	9.271125
DEFB119	0	18.88993643	617.8552649	9.271125
OR4C6	0	18.88993643	617.8552649	9.271125
DUSP21	0	18.88993643	617.8552649	9.271125
ENSG000002	0	18.88993643	617.8552649	9.271125
GPR179	0	18.88993643	617.8552649	9.271125
MTMR9	0	17.7787637	617.8552649	9.271125
FGF21	0	17.7787637	617.8552649	9.271125
MYL10	0	17.7787637	617.8552649	9.271125
MTNR1B	0	17.7787637	617.8552649	9.271125
OR1Q1	0	17.7787637	617.8552649	9.271125
KRT38	0	17.7787637	617.8552649	9.271125
MDS2	0	17.7787637	617.8552649	9.271125
AKR7A2P2	0	17.7787637	617.8552649	9.271125
ENSG000002	0	17.7787637	617.8552649	9.271125
ENSG000002	0	17.7787637	617.8552649	9.271125
ENSG000002	0	17.7787637	617.8552649	9.271125
ENSG000002	0	17.7787637	617.8552649	9.271125
CEBPE	0	16.66759097	617.8552649	9.271125
LYZL4	0	16.66759097	617.8552649	9.271125
OR2V1	0	16.66759097	617.8552649	9.271125
IGFL4	0	16.66759097	617.8552649	9.271125
LRRC30	0	16.66759097	617.8552649	9.271125
TRAV3	0	16.66759097	617.8552649	9.271125

Brain NEPC vs Dura Ad				
Gene	Brain NEPC	Dura Ad	Fold Change (FC)	log2FC
CEACAM6	1689.526822	0	547.0328046	9.095484
STAP1	604.1137163	0	547.0328046	9.095484
ENSG000002	598.3049306	0	547.0328046	9.095484
SFTA3	482.1292159	0	547.0328046	9.095484
H2BC14	468.0221648	0	547.0328046	9.095484
CDC25C	436.4887566	0	547.0328046	9.095484
CCL28	349.3569705	0	547.0328046	9.095484
RGS17	292.0989397	0	547.0328046	9.095484
IGKC	248.1181335	0	547.0328046	9.095484
FAM72B	230.6917763	0	547.0328046	9.095484
HSD17B6	216.5847252	0	547.0328046	9.095484
ENSG000002	216.5847252	0	547.0328046	9.095484
ENSG000002	207.4566333	0	547.0328046	9.095484
ENSG000002	196.6688884	0	547.0328046	9.095484
NRG1-IT1	195.8390619	0	547.0328046	9.095484
H2BC10	195.0092353	0	547.0328046	9.095484
ENSG000002	184.2214904	0	547.0328046	9.095484
FAM72D	167.6249597	0	547.0328046	9.095484
ENSG000002	165.9653067	0	547.0328046	9.095484
LINC02484	164.3056536	0	547.0328046	9.095484
ENSG000002	153.5179087	0	547.0328046	9.095484
ZNF695	150.1986025	0	547.0328046	9.095484
ENSG000002	136.921378	0	547.0328046	9.095484
ENSG000002	135.2617249	0	547.0328046	9.095484
ENSG000002	131.9424188	0	547.0328046	9.095484
NSG2	128.6231127	0	547.0328046	9.095484
MT-TI	126.9634596	0	547.0328046	9.095484
CCK	114.5160616	0	547.0328046	9.095484
CENPW	114.5160616	0	547.0328046	9.095484
MIR924HG	113.6862351	0	547.0328046	9.095484
RNF183	107.0476228	0	547.0328046	9.095484
RMST	103.7283167	0	547.0328046	9.095484
PSMC2P2	102.0686636	0	547.0328046	9.095484
NEUROG3	101.2388371	0	547.0328046	9.095484
ZBTB8B	101.2388371	0	547.0328046	9.095484
SPC25	100.4090105	0	547.0328046	9.095484
ENSG000002	98.74935747	0	547.0328046	9.095484
ENSG000002	98.74935747	0	547.0328046	9.095484
ENSG000002	97.91953094	0	547.0328046	9.095484
CCNA1	96.25987787	0	547.0328046	9.095484
ELP5	94.6002248	0	547.0328046	9.095484
RAB3C	92.94057174	0	547.0328046	9.095484
RN7SKP106	89.6212656	0	547.0328046	9.095484
C12orf42	84.6423064	0	547.0328046	9.095484
CAMK4	81.32300027	0	547.0328046	9.095484
ENSG000002	80.49317374	0	547.0328046	9.095484
TMPOP2	79.6633472	0	547.0328046	9.095484
LRRN4	73.85456147	0	547.0328046	9.095484
NKX2-1-AS1	73.02473494	0	547.0328046	9.095484
ENSG000002	71.36508187	0	547.0328046	9.095484
ENSG000002	71.36508187	0	547.0328046	9.095484
LINC01811	70.53525534	0	547.0328046	9.095484
TLCD3B	68.04577574	0	547.0328046	9.095484
FIBCD1	66.38612267	0	547.0328046	9.095484
LINC01833	65.55629614	0	547.0328046	9.095484
LNP1	64.7264696	0	547.0328046	9.095484
C10orf88B	64.7264696	0	547.0328046	9.095484
MTND4P12	63.89664307	0	547.0328046	9.095484
LINC02506	63.89664307	0	547.0328046	9.095484
SHD	60.57733694	0	547.0328046	9.095484
ENSG000002	59.7475104	0	547.0328046	9.095484
CYTOR	58.91768387	0	547.0328046	9.095484
ENSG000002	58.91768387	0	547.0328046	9.095484
FAM72C	57.2580308	0	547.0328046	9.095484
ZNF488	57.2580308	0	547.0328046	9.095484
IL18RAP	53.93872467	0	547.0328046	9.095484
MT-TA	53.93872467	0	547.0328046	9.095484
ENSG000002	53.93872467	0	547.0328046	9.095484
TEX55	53.10889814	0	547.0328046	9.095484
AQP9	52.2790716	0	547.0328046	9.095484
ENSG000002	52.2790716	0	547.0328046	9.095484
ERFE	51.44924507	0	547.0328046	9.095484
ENSG000002	50.61941854	0	547.0328046	9.095484
ENSG000002	50.61941854	0	547.0328046	9.095484
ENSG000002	49.789592	0	547.0328046	9.095484
OLFM3	48.95976547	0	547.0328046	9.095484
MAB21L4	48.95976547	0	547.0328046	9.095484
DMC1	48.12993894	0	547.0328046	9.095484
LRFN5-DT	47.3001124	0	547.0328046	9.095484
DRD5	46.47028587	0	547.0328046	9.095484
ENSG000001	46.47028587	0	547.0328046	9.095484
ENSG000002	46.47028587	0	547.0328046	9.095484
GPR6	45.64045934	0	547.0328046	9.095484
ENSG000002	45.64045934	0	547.0328046	9.095484
KCNMB2	44.8106328	0	547.0328046	9.095484
DBH-AS1	44.8106328	0	547.0328046	9.095484
ENSG000002	44.8106328	0	547.0328046	9.095484
MOB1AP1	43.98080627	0	547.0328046	9.095484
LINC02475	43.98080627	0	547.0328046	9.095484
LINC02009	43.98080627	0	547.0328046	9.095484
VSTM2B	43.15097974	0	547.0328046	9.095484
CKMT1A	43.15097974	0	547.0328046	9.095484
LINC00310	43.15097974	0	547.0328046	9.095484
CCDC92B	43.15097974	0	547.0328046	9.095484
ENSG000002	43.15097974	0	547.0328046	9.095484
LINC00861	42.3211532	0	547.0328046	9.095484
LBX1	41.49132667	0	547.0328046	9.095484
ENSG000002	41.49132667	0	547.0328046	9.095484

Brain NEPC vs Primary Prostate				
Gene	Primary Ad	Brain NEPC	Fold Change (FC)	log2FC
ENSG000002	0	598.3049306	893.1261388	9.80272
LCAL1	0	263.8848376	893.1261388	9.80272
NR0B2	0	252.2672661	893.1261388	9.80272
SST	0	239.8198681	893.1261388	9.80272
ENSG000002	0	237.3303885	893.1261388	9.80272
CNGB1	0	229.8619497	893.1261388	9.80272
TMEM171	0	223.2233375	893.1261388	9.80272
ENSG000002	0	216.5847252	893.1261388	9.80272
CHST8	0	184.2214904	893.1261388	9.80272
ENSG000002	0	184.2214904	893.1261388	9.80272
DCAF12L1	0	165.9653067	893.1261388	9.80272
ENSG000002	0	165.9653067	893.1261388	9.80272
LINC02484	0	164.3056536	893.1261388	9.80272
DAPL1	0	154.3477352	893.1261388	9.80272
ENSG000002	0	153.5179087	893.1261388	9.80272
ENSG000002	0	136.921378	893.1261388	9.80272
ENSG000002	0	135.2617249	893.1261388	9.80272
SERPIND1	0	132.7722453	893.1261388	9.80272
ENSG000002	0	131.9424188	893.1261388	9.80272
ATP1A3	0	123.6441535	893.1261388	9.80272
AMER3	0	103.7283167	893.1261388	9.80272
ZBTB8B	0	101.2388371	893.1261388	9.80272
SPC25	0	100.4090105	893.1261388	9.80272
ENSG000002	0	98.74935747	893.1261388	9.80272
ENSG000002	0	97.91953094	893.1261388	9.80272
OR52E6	0	87.131786	893.1261388	9.80272
ENSG000002	0	80.49317374	893.1261388	9.80272
HOXC10	0	76.34404107	893.1261388	9.80272
NKX2-1-AS1	0	73.02473494	893.1261388	9.80272
LINC01811	0	70.53525534	893.1261388	9.80272
KIFC1	0	68.04577574	893.1261388	9.80272
LINC02506	0	63.89664307	893.1261388	9.80272
ENSG000002	0	62.23699	893.1261388	9.80272
AGRP	0	61.40716347	893.1261388	9.80272
SHD	0	60.57733694	893.1261388	9.80272
MIR548XHG	0	60.57733694	893.1261388	9.80272
GUSBP8	0	57.2580308	893.1261388	9.80272
FAM72C	0	57.2580308	893.1261388	9.80272
MIR9-1HG	0	52.2790716	893.1261388	9.80272
ENSG000002	0	48.12993894	893.1261388	9.80272
GPR6	0	45.64045934	893.1261388	9.80272
ENSG000002	0	45.64045934	893.1261388	9.80272
LINC02963	0	44.8106328	893.1261388	9.80272
MTMR9	0	43.98080627	893.1261388	9.80272
MOB1AP1	0	43.98080627	893.1261388	9.80272
LINC01205	0	43.98080627	893.1261388	9.80272
LINC02475	0	43.98080627	893.1261388	9.80272
LINC00648	0	40.66150013	893.1261388	9.80272
ENSG000002	0	39.00184707	893.1261388	9.80272
ENSG000002	0	39.00184707	893.1261388	9.80272
ENSG000002	0	38.17202053	893.1261388	9.80272
ENSG000002	0	36.51236747	893.1261388	9.80272
BRSK2	0	35.68254093	893.1261388	9.80272
ENSG000002	0	35.68254093	893.1261388	9.80272
LINC01967	0	35.68254093	893.1261388	9.80272
LINC00491	0	35.68254093	893.1261388	9.80272
NIHCOLE	0	35.68254093	893.1261388	9.80272
ENSG000002	0	35.68254093	893.1261388	9.80272
MTCO1P47	0	34.8527144	893.1261388	9.80272
LINC01470	0	34.02288787	893.1261388	9.80272
ENSG000002	0	34.02288787	893.1261388	9.80272
DBH	0	32.3632348	893.1261388	9.80272
CXCR1	0	32.3632348	893.1261388	9.80272
YWHAQP10	0	32.3632348	893.1261388	9.80272
SCGB1D1	0	30.70358173	893.1261388	9.80272
RPL26P31	0	30.70358173	893.1261388	9.80272
LINC00355	0	29.8737552	893.1261388	9.80272
NPPC	0	29.04392867	893.1261388	9.80272
RNA5SP141	0	29.04392867	893.1261388	9.80272
NFYAP1	0	29.04392867	893.1261388	9.80272
METTL8P1	0	29.04392867	893.1261388	9.80272
CALCB	0	28.21410213	893.1261388	9.80272
ZDHHC22	0	28.21410213	893.1261388	9.80272
ENSG000002	0	28.21410213	893.1261388	9.80272
LINC01192	0	27.3842756	893.1261388	9.80272
CD200R1L-A	0	25.72462253	893.1261388	9.80272
ENSG000002	0	25.72462253	893.1261388	9.80272
GK4P	0	24.894796	893.1261388	9.80272
DAND5	0	24.894796	893.1261388	9.80272
CBLN1	0	24.06496947	893.1261388	9.80272
ENSG000002	0	24.06496947	893.1261388	9.80272
ENSG000002	0	24.06496947	893.1261388	9.80272
ENSG000002	0	24.06496947	893.1261388	9.80272
MIR2052HG	0	23.23514293	893.1261388	9.80272
ENSG000002	0	23.23514293	893.1261388	9.80272
ENSG000002	0	23.23514293	893.1261388	9.80272
TNNC2	0	22.4053164	893.1261388	9.80272
S100A1	0	22.4053164	893.1261388	9.80272
RFPL4AP5	0	22.4053164	893.1261388	9.80272
ENSG000002	0	22.4053164	893.1261388	9.80272
ENSG000002	0	22.4053164	893.1261388	9.80272
MT3	0	21.57548987	893.1261388	9.80272
LINC02901	0	21.57548987	893.1261388	9.80272
ENSG000002	0	21.57548987	893.1261388	9.80272
WASL-DT	0	21.57548987	893.1261388	9.80272
PLA2G12B	0	20.74566333	893.1261388	9.80272
HLCS-AS1	0	20.74566333	893.1261388	9.80272
EPCAM-DT	0	20.74566333	893.1261388	9.80272

ENSG000002	0	16.66759097	617.8552649	9.271125	CCR8	40.66150013	0	547.0328046	9.095484	ENSG000002	0	20.74566333	893.1261388	9.80272
OR4N1P	0	16.66759097	617.8552649	9.271125	HCCS-DT	40.66150013	0	547.0328046	9.095484	ENSG000002	0	20.74566333	893.1261388	9.80272
NPAP1L	0	16.66759097	617.8552649	9.271125	ENSG000002	40.66150013	0	547.0328046	9.095484	ENSG000002	0	20.74566333	893.1261388	9.80272
ENSG000002	0	16.66759097	617.8552649	9.271125	BLACAT1	40.66150013	0	547.0328046	9.095484	LNCDAT	0	20.74566333	893.1261388	9.80272
PLAAT5	0	15.55641824	617.8552649	9.271125	ENSG000002	39.8316736	0	547.0328046	9.095484	LRRC71	0	19.9158368	893.1261388	9.80272
TPPP2	0	15.55641824	617.8552649	9.271125	ENSG000002	39.8316736	0	547.0328046	9.095484	PPP3R2	0	19.9158368	893.1261388	9.80272
LCE3E	0	15.55641824	617.8552649	9.271125	BCL2A1	39.00184707	0	547.0328046	9.095484	GPC5-AS1	0	19.9158368	893.1261388	9.80272
LCTL	0	15.55641824	617.8552649	9.271125	ENSG000002	39.00184707	0	547.0328046	9.095484	ENSG000002	0	19.9158368	893.1261388	9.80272
CTXN3	0	15.55641824	617.8552649	9.271125	ENSG000002	39.00184707	0	547.0328046	9.095484	PTCSC3	0	19.9158368	893.1261388	9.80272
ENSG000002	0	15.55641824	617.8552649	9.271125	ENSG000002	39.00184707	0	547.0328046	9.095484	ENSG000002	0	19.9158368	893.1261388	9.80272
METTL8P1	0	15.55641824	617.8552649	9.271125	SNORA12	38.17202053	0	547.0328046	9.095484	Y_RNA.44	0	19.08601027	893.1261388	9.80272
CA5AP1	0	15.55641824	617.8552649	9.271125	ENSG000002	38.17202053	0	547.0328046	9.095484	GRASLND	0	19.08601027	893.1261388	9.80272
MIR7856	0	15.55641824	617.8552649	9.271125	SNORA47	38.17202053	0	547.0328046	9.095484	LINC01346	0	19.08601027	893.1261388	9.80272
CD5L	0	14.44524551	617.8552649	9.271125	LNCOC1	38.17202053	0	547.0328046	9.095484	GUCY1B2	0	18.25618373	893.1261388	9.80272
CCDC70	0	14.44524551	617.8552649	9.271125	ENSG000002	38.17202053	0	547.0328046	9.095484	LINC01854	0	18.25618373	893.1261388	9.80272
OR10A2	0	14.44524551	617.8552649	9.271125	ENSG000002	38.17202053	0	547.0328046	9.095484	GABBR1	0	18.25618373	893.1261388	9.80272
FUT3	0	14.44524551	617.8552649	9.271125	ENSG000002	38.17202053	0	547.0328046	9.095484	TOMM22P6	0	18.25618373	893.1261388	9.80272
OR10V1	0	14.44524551	617.8552649	9.271125	ENSG000002	37.342194	0	547.0328046	9.095484	ENSG000002	0	18.25618373	893.1261388	9.80272
OR10AD1	0	14.44524551	617.8552649	9.271125	CALML5	36.51236747	0	547.0328046	9.095484	ENSG000002	0	18.25618373	893.1261388	9.80272
TMEM262	0	14.44524551	617.8552649	9.271125	LINC00910	36.51236747	0	547.0328046	9.095484	OR1Q1	0	17.4263572	893.1261388	9.80272
MAGEB5	0	14.44524551	617.8552649	9.271125	ENSG000002	36.51236747	0	547.0328046	9.095484	SNORA49	0	17.4263572	893.1261388	9.80272
ZNF676	0	14.44524551	617.8552649	9.271125	BRSK2	35.68254093	0	547.0328046	9.095484	ENSG000002	0	17.4263572	893.1261388	9.80272
FAM24A	0	14.44524551	617.8552649	9.271125	PTMAP2	35.68254093	0	547.0328046	9.095484	ENSG000002	0	17.4263572	893.1261388	9.80272
DAXX	0	14.44524551	617.8552649	9.271125	IGLC2	35.68254093	0	547.0328046	9.095484	FAM163B	0	16.59653067	893.1261388	9.80272
PGK1P2	0	14.44524551	617.8552649	9.271125	LINC01967	35.68254093	0	547.0328046	9.095484	KRTAP10-3	0	16.59653067	893.1261388	9.80272
MIR548XHG	0	14.44524551	617.8552649	9.271125	DDX11-AS1	35.68254093	0	547.0328046	9.095484	LINC00951	0	16.59653067	893.1261388	9.80272
ENSG000002	0	14.44524551	617.8552649	9.271125	LINC01572	35.68254093	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
ENSG000002	0	14.44524551	617.8552649	9.271125	ENSG000002	35.68254093	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
ALG1L3P	0	14.44524551	617.8552649	9.271125	TIAM1-AS1	34.8527144	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
ANO1-AS1	0	14.44524551	617.8552649	9.271125	GGCTP1	34.8527144	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
SIGLEC10-AS	0	14.44524551	617.8552649	9.271125	MTCO1P47	34.8527144	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
PPIAP6	0	14.44524551	617.8552649	9.271125	LYRM4-AS1	34.8527144	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
RNASEH1P1	0	14.44524551	617.8552649	9.271125	FOXD2-AS1	34.02288787	0	547.0328046	9.095484	MIR325HG	0	16.59653067	893.1261388	9.80272
LGALS9DP	0	14.44524551	617.8552649	9.271125	LINC01470	34.02288787	0	547.0328046	9.095484	ENSG000002	0	16.59653067	893.1261388	9.80272
ENSG000002	0	14.44524551	617.8552649	9.271125	NUDT16-DT	34.02288787	0	547.0328046	9.095484	CNGA3	0	15.76670413	893.1261388	9.80272
ENSG000002	0	14.44524551	617.8552649	9.271125	HSPE1P2	34.02288787	0	547.0328046	9.095484	OR56A1	0	15.76670413	893.1261388	9.80272
FNDC8	0	13.33407278	617.8552649	9.271125	ENSG000002	34.02288787	0	547.0328046	9.095484	ZNF322	0	15.76670413	893.1261388	9.80272
GAPDHS	0	13.33407278	617.8552649	9.271125	LINC01134	33.19306133	0	547.0328046	9.095484	LINC01921	0	15.76670413	893.1261388	9.80272
IL37	0	13.33407278	617.8552649	9.271125	DBH	32.3632348	0	547.0328046	9.095484	CASC20	0	15.76670413	893.1261388	9.80272
OR1L6	0	13.33407278	617.8552649	9.271125	PLN	32.3632348	0	547.0328046	9.095484	PNMA6A	0	15.76670413	893.1261388	9.80272
OR1N1	0	13.33407278	617.8552649	9.271125	YWHAQP10	32.3632348	0	547.0328046	9.095484	DEFA3	0	15.76670413	893.1261388	9.80272
LCE1D	0	13.33407278	617.8552649	9.271125	AGAP1-IT1	32.3632348	0	547.0328046	9.095484	ENSG000002	0	15.76670413	893.1261388	9.80272
OR4B1	0	13.33407278	617.8552649	9.271125	ZNF767P	32.3632348	0	547.0328046	9.095484	ENSG000002	0	15.76670413	893.1261388	9.80272
OR6P1	0	13.33407278	617.8552649	9.271125	SHISA8	31.53340827	0	547.0328046	9.095484	DACH2	0	14.9368776	893.1261388	9.80272
NEU4	0	13.33407278	617.8552649	9.271125	ENSG000002	31.53340827	0	547.0328046	9.095484	MYT1	0	14.9368776	893.1261388	9.80272
SMTNL1	0	13.33407278	617.8552649	9.271125	ENSG000002	31.53340827	0	547.0328046	9.095484	LINC00466	0	14.9368776	893.1261388	9.80272
OR4F1P	0	13.33407278	617.8552649	9.271125	ENSG000002	31.53340827	0	547.0328046	9.095484	GPC5-IT1	0	14.9368776	893.1261388	9.80272
ENSG000002	0	13.33407278	617.8552649	9.271125	OR2D2	30.70358173	0	547.0328046	9.095484	RNU6ATAC3	0	14.9368776	893.1261388	9.80272
ODF2-AS1	0	13.33407278	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	ENSG000002	0	14.9368776	893.1261388	9.80272
ENSG000002	0	13.33407278	617.8552649	9.271125	CNN3-DT	30.70358173	0	547.0328046	9.095484	SAP30-DT	0	14.9368776	893.1261388	9.80272
ENSG000002	0	13.33407278	617.8552649	9.271125	RPL26P31	30.70358173	0	547.0328046	9.095484	ENSG000002	0	14.9368776	893.1261388	9.80272
MIR3661	0	13.33407278	617.8552649	9.271125	TARS1-DT	30.70358173	0	547.0328046	9.095484	ENSG000002	0	14.10705107	893.1261388	9.80272
LRRC37A16P	0	13.33407278	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	CCDC188	0	14.10705107	893.1261388	9.80272
ENSG000002	0	13.33407278	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	MKRN4P	0	14.10705107	893.1261388	9.80272
ENSG000002	0	13.33407278	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	ENSG000002	0	14.10705107	893.1261388	9.80272
A1BG	0	12.22290005	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	LINC00664	0	14.10705107	893.1261388	9.80272
ODF1	0	12.22290005	617.8552649	9.271125	ENSG000002	30.70358173	0	547.0328046	9.095484	ENSG000002	0	14.10705107	893.1261388	9.80272
TMEM82	0	12.22290005	617.8552649	9.271125	TRAT1	29.8737552	0	547.0328046	9.095484	SCHLAP1	0	14.10705107	893.1261388	9.80272
NPPC	0	12.22290005	617.8552649	9.271125	TMSB4XP8	29.8737552	0	547.0328046	9.095484	DLX4	0	13.27722453	893.1261388	9.80272
C4orf36	0	12.22290005	617.8552649	9.271125	UBE2SP1	29.8737552	0	547.0328046	9.095484	EGR4	0	13.27722453	893.1261388	9.80272
RPL10L	0	12.22290005	617.8552649	9.271125	AATBC	29.04392867	0	547.0328046	9.095484	NDUFB9	0	13.27722453	893.1261388	9.80272
C16orf92	0	12.22290005	617.8552649	9.271125	NFYAP1	29.04392867	0	547.0328046	9.095484	PCLAF	0	13.27722453	893.1261388	9.80272
OR1L3	0	12.22290005	617.8552649	9.271125	CKMT2-AS1	29.04392867	0	547.0328046	9.095484	OLIG1	0	13.27722453	893.1261388	9.80272
ODF4	0	12.22290005	617.8552649	9.271125	SLC27A3	28.21410213	0	547.0328046	9.095484	E2F3-IT1	0	13.27722453	893.1261388	9.80272
LCE1E	0	12.22290005	617.8552649	9.271125	VSTM2A	28.21410213	0	547.0328046	9.095484	LINC01456	0	13.27722453	893.1261388	9.80272
PPP3R2	0	12.22290005	617.8552649	9.271125	ENSG000002	28.21410213	0	547.0328046	9.095484	DUX4L27	0	13.27722453	893.1261388	9.80272
TMEM239	0	12.22290005	617.8552649	9.271125	ENSG000002	28.21410213	0	547.0328046	9.095484	SAMD12-AS	0	13.27722453	893.1261388	9.80272
MYL4	0	12.22290005	617.8552649	9.271125	ENSG000002	28.21410213	0	547.0328046	9.095484	ENSG000002	0	13.27722453	893.1261388	9.80272
DCAF12L1	0	12.22290005	617.8552649	9.271125	DIRC3-AS1	27.3842756	0	547.0328046	9.095484	IL17A	0	12.447398	893.1261388	9.80272
IGKV1OR-3	0	12.22290005	617.8552649	9.271125	LINC01192	27.3842756	0	547.0328046	9.095484	RNA5SP149	0	12.447398	893.1261388	9.80272
IGLV4-3	0	12.22290005	617.8552649	9.271125	LINC01194	27.3842756	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
ENAHP1	0	12.22290005	617.8552649	9.271125	ENSG000002	27.3842756	0	547.0328046	9.095484	WDR35-DT	0	12.447398	893.1261388	9.80272
PAFAH1B1P2	0	12.22290005	617.8552649	9.271125	ENSG000002	27.3842756	0	547.0328046	9.095484	TP73-AS3	0	12.447398	893.1261388	9.80272
TRIM53AP	0	12.22290005	617.8552649	9.271125	ENSG000002	27.3842756	0	547.0328046	9.095484	TMSB15B-AS	0	12.447398	893.1261388	9.80272
ENSG000002	0	12.22290005	617.8552649	9.271125	ENSG000002	27.3842756	0	547.0328046	9.095484	RPL29P2	0	12.447398	893.1261388	9.80272
WDR35-DT	0	12.22290005	617.8552649	9.271125	ENSG000002	27.3842756	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
RPS15P5	0	12.22290005	617.8552649	9.271125	ENKUR	26.55444907	0	547.0328046	9.095484	LINC02428	0	12.447398	893.1261388	9.80272
LIX1L-AS1	0	12.22290005	617.8552649	9.271125	SNHG12	26.55444907	0	547.0328046	9.095484	CYP4F23P	0	12.447398	893.1261388	9.80272
ENSG000002	0	12.22290005	617.8552649	9.271125	MYBPHL	26.55444907	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
ABCA17P	0	12.22290005	617.8552649	9.271125	LNC-LBCS	26.55444907	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
RPL21P46	0	12.22290005	617.8552649	9.271125	ANKRD10-I	26.55444907	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
PRB1	0	12.22290005	617.8552649	9.271125	MAPKAPK5	26.55444907	0	547.0328046	9.095484	ENSG000002	0	12.447398	893.1261388	9.80272
ENSG000002	0	12.22290005	617.8552649	9.271125	ENSG000002	26.55444907	0	547.0328046	9.095484	HOXC8	0	11.61757147	893.1261388	9.80272
ENSG000002	0	12.22290005	617.8552649	9.271125	ENSG000002	26.55444907	0	547.0328046	9.095484	CDA	0	11.61757147	893.1261388	9.80272
ENSG000002	0	12.22290005	617.8552649	9.271125	RNU5A-1	25.72462253	0	547.0328046	9.095484	IFI27	0	11.61757147	893.1261388	9.80272
GPR50	0	11.11172731	617.8552649	9.271125	LINC01446	25.72462253	0	547.0328046	9.095484	ASCL3	0	11.61757147	893.1261388	9.80272
HCRTR1	0	11.11172731	617.8552649	9.271125	SNORA22C	25.72462253	0	547.0328046	9.095484	MUC6	0	11.61757147	893.1261388	9.80272
CHST8	0	11.11172731	617.8552649	9.271125	IGLV7-46	25.72462253	0	547.0328046	9.095484	LBX1-AS1	0	11.61757147	893.1261388	9.80272
PRPH	0	11.11172731	617.8552649	9.271125	URB1-AS1	25.72462253	0	547.0328046	9.095484	BARX1-DT	0	11.61757147	893.1261388	9.80272
ACMSD	0	11.11172731	617.8552649	9.271125	ENSG000002	25.72462253	0	547.0328046	9.095484	RN7SL674P	0	11.61757147	893.1261388	9.80272
IFI27	0	11.11172731	617.8552649	9.271125	MIR5690	25.72462253	0	547.0328046	9.095484	RN7SL67P	0	11.61757147	893.1261388	9.80272
C16orf78	0	11.11172731	617.8552649	9.271125	LINC01012	25.72462253	0	547.0328046	9.095484	LINC02211	0	11.61757147	893.1261388	9.80272
OR7D4	0	11.11172731	617.8552649	9.271125	DAND5	24.894796	0	547.0328046	9.095484	NRG1-IT3	0	11.61757147	893.1261388	9.80272
VN1R6P	0	11.11172731	617.8552649	9.271125	ADAMTSL4	24.894796	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
CALCB	0	11.11172731	617.8552649	9.271125	MMADHCP2	24.894796	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
FAM187B	0	11.11172731	617.8552649	9.271125	CBLN1	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
TRIM61	0	11.11172731	617.8552649	9.271125	TNFSF11	24.06496947	0	547.0328046	9.095484	LINC00526	0	11.61757147	893.1261388	9.80272
KRT79	0	11.11172731	617.8552649	9.271125	MEGF11	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
PRSS38	0	11.11172731	617.8552649	9.271125	MAGEA3	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
OR4F5	0	11.11172731	617.8552649	9.271125	ENSG000002	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
OR5K4	0	11.11172731	617.8552649	9.271125	ENSG000002	24.06496947	0	547.0328046	9.095484	THCAT155	0	11.61757147	893.1261388	9.80272

PRAMEF17	0	11.11172731	617.8552649	9.271125	SNHG22	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	24.06496947	0	547.0328046	9.095484	ENSG000002	0	11.61757147	893.1261388	9.80272
LAMP5-AS1	0	11.11172731	617.8552649	9.271125	NPBWR1	24.06496947	0	547.0328046	9.095484	CTRC	0	10.78774493	893.1261388	9.80272
PNPT1P1	0	11.11172731	617.8552649	9.271125	ENSG000002	24.06496947	0	547.0328046	9.095484	LINC00482	0	10.78774493	893.1261388	9.80272
VPS13A-AS1	0	11.11172731	617.8552649	9.271125	ENSG000002	24.06496947	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
MARK2P15	0	11.11172731	617.8552649	9.271125	FUT2	23.23514293	0	547.0328046	9.095484	MTND2P39	0	10.78774493	893.1261388	9.80272
HNRNPK-AS	0	11.11172731	617.8552649	9.271125	LINC02848	23.23514293	0	547.0328046	9.095484	MTND1P33	0	10.78774493	893.1261388	9.80272
LRP4-AS1	0	11.11172731	617.8552649	9.271125	RAP2C-AS1	23.23514293	0	547.0328046	9.095484	CCDC153	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	LINC02696	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	DSP-AS1	23.23514293	0	547.0328046	9.095484	DDX19A-DT	0	10.78774493	893.1261388	9.80272
RNU6-237P	0	11.11172731	617.8552649	9.271125	LINC00907	23.23514293	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
LRP1-AS	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	ZNF566-AS1	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	ENSG000002	23.23514293	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
PLAC4	0	11.11172731	617.8552649	9.271125	ENSG000002	22.4053164	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
ENSG000002	0	11.11172731	617.8552649	9.271125	LINC02975	22.4053164	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
PIWIL1	0	10.00055458	617.8552649	9.271125	FOXD3-AS1	22.4053164	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
AVPR2	0	10.00055458	617.8552649	9.271125	RFPL4AP5	22.4053164	0	547.0328046	9.095484	ENSG000002	0	10.78774493	893.1261388	9.80272
IKBKE-AS1	0	10.00055458	617.8552649	9.271125	SNHG19	22.4053164	0	547.0328046	9.095484	CD5L	0	9.9579184	893.1261388	9.80272
PRKACG	0	10.00055458	617.8552649	9.271125	SSX2B	22.4053164	0	547.0328046	9.095484	INHBE	0	9.9579184	893.1261388	9.80272
SERF1A	0	10.00055458	617.8552649	9.271125	ENSG000002	22.4053164	0	547.0328046	9.095484	ALLC	0	9.9579184	893.1261388	9.80272
ZDHHC22	0	10.00055458	617.8552649	9.271125	FLJ42393	22.4053164	0	547.0328046	9.095484	MRPL35P1	0	9.9579184	893.1261388	9.80272
CPN2	0	10.00055458	617.8552649	9.271125	ENSG000002	22.4053164	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
OR6B2	0	10.00055458	617.8552649	9.271125	RAB38	21.57548987	0	547.0328046	9.095484	CNTNAP5-D	0	9.9579184	893.1261388	9.80272
GALP	0	10.00055458	617.8552649	9.271125	RASGEF1C	21.57548987	0	547.0328046	9.095484	SLC25A5P4	0	9.9579184	893.1261388	9.80272
DLGAP2	0	10.00055458	617.8552649	9.271125	NHEJ1	21.57548987	0	547.0328046	9.095484	OR8G3P	0	9.9579184	893.1261388	9.80272
ENSG000001	0	10.00055458	617.8552649	9.271125	MIR1915HG	21.57548987	0	547.0328046	9.095484	G2E3-AS1	0	9.9579184	893.1261388	9.80272
LINC03041	0	10.00055458	617.8552649	9.271125	MT-TW	21.57548987	0	547.0328046	9.095484	SYPL1P2	0	9.9579184	893.1261388	9.80272
TRAV2	0	10.00055458	617.8552649	9.271125	SNORD116	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
AKR1B10P1	0	10.00055458	617.8552649	9.271125	ENSG000002	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
GAGE12G	0	10.00055458	617.8552649	9.271125	LINC01963	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
TTC21B-AS1	0	10.00055458	617.8552649	9.271125	ENSG000002	21.57548987	0	547.0328046	9.095484	PPP1R21-DT	0	9.9579184	893.1261388	9.80272
SSXP3	0	10.00055458	617.8552649	9.271125	ENSG000002	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
PDE4DIPP1	0	10.00055458	617.8552649	9.271125	ENSG000002	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	ENSG000002	21.57548987	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
TAB3-AS2	0	10.00055458	617.8552649	9.271125	MND1	20.74566333	0	547.0328046	9.095484	ENSG000002	0	9.9579184	893.1261388	9.80272
SUMO2P6	0	10.00055458	617.8552649	9.271125	PLA2G12B	20.74566333	0	547.0328046	9.095484	NUSAP1	0	9.128091867	893.1261388	9.80272
LRP2BP-AS1	0	10.00055458	617.8552649	9.271125	HOXC9	20.74566333	0	547.0328046	9.095484	NECAP2	0	9.128091867	893.1261388	9.80272
CA3-AS1	0	10.00055458	617.8552649	9.271125	IGLC3	20.74566333	0	547.0328046	9.095484	SPAG16-DT	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	LINC01980	20.74566333	0	547.0328046	9.095484	HBG2	0	9.128091867	893.1261388	9.80272
HADHAP2	0	10.00055458	617.8552649	9.271125	TRAM2-AS1	20.74566333	0	547.0328046	9.095484	Y_RNA.5	0	9.128091867	893.1261388	9.80272
SMARCE1P3	0	10.00055458	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	Y_RNA.55	0	9.128091867	893.1261388	9.80272
MYL12BP1	0	10.00055458	617.8552649	9.271125	MHENCR	20.74566333	0	547.0328046	9.095484	PRAMEF17	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	NAALADL2-	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	SMIM15-AS	20.74566333	0	547.0328046	9.095484	BTG2-DT	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	LINC02046	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	LINC02438	0	9.128091867	893.1261388	9.80272
ENSG000002	0	10.00055458	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	ANKRD20A1	0	9.128091867	893.1261388	9.80272
UTS2	0	8.889381852	617.8552649	9.271125	LINC02967	20.74566333	0	547.0328046	9.095484	LINC02113	0	9.128091867	893.1261388	9.80272
CNGB1	0	8.889381852	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
ZC2HC1B	0	8.889381852	617.8552649	9.271125	NPTN-IT1	20.74566333	0	547.0328046	9.095484	PAICSP4	0	9.128091867	893.1261388	9.80272
FATE1	0	8.889381852	617.8552649	9.271125	LNCDAT	20.74566333	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
XAGE2	0	8.889381852	617.8552649	9.271125	ENSG000002	20.74566333	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
CXCR1	0	8.889381852	617.8552649	9.271125	ASPN	19.9158368	0	547.0328046	9.095484	LINC01413	0	9.128091867	893.1261388	9.80272
GPR101	0	8.889381852	617.8552649	9.271125	EVA1A	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
EPB42	0	8.889381852	617.8552649	9.271125	NKX6-2	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
CDC42EP5	0	8.889381852	617.8552649	9.271125	PCP4	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
KCNG4	0	8.889381852	617.8552649	9.271125	IL1RAPL2	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
WFDC12	0	8.889381852	617.8552649	9.271125	ZNF33BP1	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
TEX37	0	8.889381852	617.8552649	9.271125	GPC5-AS1	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
SLC9C1	0	8.889381852	617.8552649	9.271125	ENSG000002	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
OR4X2	0	8.889381852	617.8552649	9.271125	SCARNA8	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
RAX2	0	8.889381852	617.8552649	9.271125	ENSG000002	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
CLDN22	0	8.889381852	617.8552649	9.271125	FPGT-TNNI3	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
IZUMO1R	0	8.889381852	617.8552649	9.271125	PTCSC3	19.9158368	0	547.0328046	9.095484	ENSG000002	0	9.128091867	893.1261388	9.80272
KRTAP21-2	0	8.889381852	617.8552649	9.271125	RN7SL648P	19.9158368	0	547.0328046	9.095484	RGR	0	8.298265334	893.1261388	9.80272
ERAS	0	8.889381852	617.8552649	9.271125	ENSG000002	19.9158368	0	547.0328046	9.095484	RYBP	0	8.298265334	893.1261388	9.80272
OR7D1P	0	8.889381852	617.8552649	9.271125	ENSG000002	19.9158368	0	547.0328046	9.095484	TMEM42	0	8.298265334	893.1261388	9.80272
OR6K2	0	8.889381852	617.8552649	9.271125	LINC01176	19.9158368	0	547.0328046	9.095484	OR1N2	0	8.298265334	893.1261388	9.80272
OR6N1	0	8.889381852	617.8552649	9.271125	ENSG000002	19.9158368	0	547.0328046	9.095484	CALB2	0	8.298265334	893.1261388	9.80272
GLT6D1	0	8.889381852	617.8552649	9.271125	COX4I2	19.08601027	0	547.0328046	9.095484	LIPN	0	8.298265334	893.1261388	9.80272
TMEM51-AS	0	8.889381852	617.8552649	9.271125	Y_RNA.44	19.08601027	0	547.0328046	9.095484	KRTAP10-2	0	8.298265334	893.1261388	9.80272
IGLV5-52	0	8.889381852	617.8552649	9.271125	ENSG000002	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
IGHV7-81	0	8.889381852	617.8552649	9.271125	GRASLND	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
CSH2	0	8.889381852	617.8552649	9.271125	TMSB4XP6	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
C12orf71	0	8.889381852	617.8552649	9.271125	ENSG000002	19.08601027	0	547.0328046	9.095484	RPL21P95	0	8.298265334	893.1261388	9.80272
PKMP5	0	8.889381852	617.8552649	9.271125	LINC01346	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
IGBP1-AS2	0	8.889381852	617.8552649	9.271125	MRE11P1	19.08601027	0	547.0328046	9.095484	TIPARP-AS1	0	8.298265334	893.1261388	9.80272
GSTA6P	0	8.889381852	617.8552649	9.271125	DNAJC3-DT	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
IFNA22P	0	8.889381852	617.8552649	9.271125	FNBP1P1	19.08601027	0	547.0328046	9.095484	LINC01574	0	8.298265334	893.1261388	9.80272
OR7E26P	0	8.889381852	617.8552649	9.271125	LINC02977	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	CCDC177	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
BDH2P1	0	8.889381852	617.8552649	9.271125	ENSG000002	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
WBP1P2	0	8.889381852	617.8552649	9.271125	ENSG000002	19.08601027	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	KCNIP4-IT1	19.08601027	0	547.0328046	9.095484	SWINGN	0	8.298265334	893.1261388	9.80272
GTF3C2-AS1	0	8.889381852	617.8552649	9.271125	ENSG000002	19.08601027	0	547.0328046	9.095484	PDCD6IPP2	0	8.298265334	893.1261388	9.80272
AK4P6	0	8.889381852	617.8552649	9.271125	PADI2	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
PNMA6A	0	8.889381852	617.8552649	9.271125	GUCY1B2	18.25618373	0	547.0328046	9.095484	MIR4480	0	8.298265334	893.1261388	9.80272
OR7E109P	0	8.889381852	617.8552649	9.271125	MAB21L2	18.25618373	0	547.0328046	9.095484	MIR5003	0	8.298265334	893.1261388	9.80272
PAGE2B	0	8.889381852	617.8552649	9.271125	LINC01854	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ALG1L15P	0	8.889381852	617.8552649	9.271125	BAZ2B-AS1	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
KRTAP19-3	0	8.889381852	617.8552649	9.271125	COPS8-DT	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
TUBAP14	0	8.889381852	617.8552649	9.271125	UICLM	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ZFAT-AS1	0	8.889381852	617.8552649	9.271125	TM9SF5P	18.25618373	0	547.0328046	9.095484	CKAP2-DT	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
TMED7-TICA	0	8.889381852	617.8552649	9.271125	SNORD13	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	TOMM22P6	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	RNU6-118P	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	ZNF887P	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272

ENSG000002	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	ENSG000002	0	8.298265334	893.1261388	9.80272
GNA15-DT	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	XGY2	0	8.298265334	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	U2.1	18.25618373	0	547.0328046	9.095484	PSD2	0	7.4684388	893.1261388	9.80272
CTAGE6	0	8.889381852	617.8552649	9.271125	SEPSECS-AS	18.25618373	0	547.0328046	9.095484	MAGEA4	0	7.4684388	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	KCNJ1	0	7.4684388	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	FUT3	0	7.4684388	893.1261388	9.80272
ENSG000002	0	8.889381852	617.8552649	9.271125	ENSG000002	18.25618373	0	547.0328046	9.095484	TTC9B	0	7.4684388	893.1261388	9.80272
GUCA2B	0	7.77820912	617.8552649	9.271125	TLX1	17.4263572	0	547.0328046	9.095484	MIR7-3HG	0	7.4684388	893.1261388	9.80272
CRP	0	7.77820912	617.8552649	9.271125	ZNF670-ZNF	17.4263572	0	547.0328046	9.095484	BEX5	0	7.4684388	893.1261388	9.80272
INHBE	0	7.77820912	617.8552649	9.271125	CHAD	17.4263572	0	547.0328046	9.095484	KRTAP10-6	0	7.4684388	893.1261388	9.80272
S100A1	0	7.77820912	617.8552649	9.271125	TACR3	17.4263572	0	547.0328046	9.095484	RNU6-652P	0	7.4684388	893.1261388	9.80272
OR7G1	0	7.77820912	617.8552649	9.271125	SNORA49	17.4263572	0	547.0328046	9.095484	MT1H	0	7.4684388	893.1261388	9.80272
CCDC42	0	7.77820912	617.8552649	9.271125	LINC00863	17.4263572	0	547.0328046	9.095484	ZDHHC12-D	0	7.4684388	893.1261388	9.80272
KCNJ9	0	7.77820912	617.8552649	9.271125	MTND1P32	17.4263572	0	547.0328046	9.095484	LINC01014	0	7.4684388	893.1261388	9.80272
SMR3B	0	7.77820912	617.8552649	9.271125	NEMP2-DT	17.4263572	0	547.0328046	9.095484	ICMT-DT	0	7.4684388	893.1261388	9.80272
TSGA10IP	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	UBAC2-AS1	0	7.4684388	893.1261388	9.80272
OR10H4	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
PXT1	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	ACVR2B-AS	0	7.4684388	893.1261388	9.80272
LHFPL1	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	SLC25A53P1	0	7.4684388	893.1261388	9.80272
OR2T34	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
SPATA8	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	LARGE-IT1	0	7.4684388	893.1261388	9.80272
TMEM72	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	LINC00867	0	7.4684388	893.1261388	9.80272
OR13D3P	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	CHORDC1P1	0	7.4684388	893.1261388	9.80272
FGF16	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	ZNF687-AS1	0	7.4684388	893.1261388	9.80272
DMBX1	0	7.77820912	617.8552649	9.271125	ENSG000002	17.4263572	0	547.0328046	9.095484	LINC01166	0	7.4684388	893.1261388	9.80272
TRAV7	0	7.77820912	617.8552649	9.271125	RFESD	16.59653067	0	547.0328046	9.095484	DDX5P1	0	7.4684388	893.1261388	9.80272
CTAGE14P	0	7.77820912	617.8552649	9.271125	TTC41P	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	MIR3681HG	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
NEFHP1	0	7.77820912	617.8552649	9.271125	TMCO1-AS1	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	RN7SKP155	0	7.4684388	893.1261388	9.80272
RPL5P25	0	7.77820912	617.8552649	9.271125	EMSLR	16.59653067	0	547.0328046	9.095484	MC1R	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	RUSF1-DT	0	7.4684388	893.1261388	9.80272
SLAMF6P1	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	MIR5699	0	7.4684388	893.1261388	9.80272
MYO5BP3	0	7.77820912	617.8552649	9.271125	LINC01011	16.59653067	0	547.0328046	9.095484	MIR5002	0	7.4684388	893.1261388	9.80272
OR4F3	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
BRI3P3	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
SPTBN1-AS2	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
HNRNPA1P2	0	7.77820912	617.8552649	9.271125	ST8SIA5-DT	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
AK2P2	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	LINC02960	0	7.4684388	893.1261388	9.80272
KRTAP20-1	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
TMEM184C-I	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	MIR548D1	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
PAICSP4	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	16.59653067	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	CFHR3	15.76670413	0	547.0328046	9.095484	ENSG000002	0	7.4684388	893.1261388	9.80272
HPR	0	7.77820912	617.8552649	9.271125	HTR6	15.76670413	0	547.0328046	9.095484	ZNF876P.1	0	7.4684388	893.1261388	9.80272
SLC25A51P2	0	7.77820912	617.8552649	9.271125	ZNF322	15.76670413	0	547.0328046	9.095484	IL37	0	6.638612267	893.1261388	9.80272
MIR4730	0	7.77820912	617.8552649	9.271125	RAB42	15.76670413	0	547.0328046	9.095484	PRPH	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	SCOC-AS1	15.76670413	0	547.0328046	9.095484	CHRND	0	6.638612267	893.1261388	9.80272
MIR432	0	7.77820912	617.8552649	9.271125	VTRNA1-3	15.76670413	0	547.0328046	9.095484	GUCA1C	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	LINC01921	15.76670413	0	547.0328046	9.095484	ADCY10P1	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	PANK2-AS1	15.76670413	0	547.0328046	9.095484	PASD1	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	CASC20	15.76670413	0	547.0328046	9.095484	CPN2	0	6.638612267	893.1261388	9.80272
LINC02906	0	7.77820912	617.8552649	9.271125	MTND5P26	15.76670413	0	547.0328046	9.095484	HSP90AA6P	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	DDN	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	DEFA3	15.76670413	0	547.0328046	9.095484	OR7E87P	0	6.638612267	893.1261388	9.80272
ENSG000002	0	7.77820912	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	LCTL	0	6.638612267	893.1261388	9.80272
PGLYRP1	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	DMBX1	0	6.638612267	893.1261388	9.80272
PCDHA6	0	6.667036389	617.8552649	9.271125	GOLPH3-DT	15.76670413	0	547.0328046	9.095484	MTCO3P12	0	6.638612267	893.1261388	9.80272
ATP1A3	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	MIR578	0	6.638612267	893.1261388	9.80272
CTRL	0	6.667036389	617.8552649	9.271125	LINC02604	15.76670413	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
SPACA3	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
PNMT	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	THAP5P1	0	6.638612267	893.1261388	9.80272
MS4A3	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	HAGLROS	0	6.638612267	893.1261388	9.80272
FXYD4	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	LINC00376	0	6.638612267	893.1261388	9.80272
GAL3ST2	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	UBBP5	0	6.638612267	893.1261388	9.80272
KRT82	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
CCDC182	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
SPATA46	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	PGAM1P11	0	6.638612267	893.1261388	9.80272
LINC00469	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
RPRML	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	RPL36AP21	0	6.638612267	893.1261388	9.80272
MRGPRX4	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	ARPC1AP1	0	6.638612267	893.1261388	9.80272
ALOX15P2	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	MAGEA5P	0	6.638612267	893.1261388	9.80272
OR6N2	0	6.667036389	617.8552649	9.271125	ENSG000002	15.76670413	0	547.0328046	9.095484	RPS26P28	0	6.638612267	893.1261388	9.80272
ENSG000001	0	6.667036389	617.8552649	9.271125	AMER2	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
CGB5	0	6.667036389	617.8552649	9.271125	MYT1	14.9368776	0	547.0328046	9.095484	KHDRBS2-O	0	6.638612267	893.1261388	9.80272
LYPD2	0	6.667036389	617.8552649	9.271125	MT-TL1	14.9368776	0	547.0328046	9.095484	HOXC-AS3	0	6.638612267	893.1261388	9.80272
RTP2	0	6.667036389	617.8552649	9.271125	SNORD89	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
BMP2KL	0	6.667036389	617.8552649	9.271125	GTF3C6P2	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
MT1H	0	6.667036389	617.8552649	9.271125	LINC00466	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	MTND1P23	14.9368776	0	547.0328046	9.095484	LINC02422	0	6.638612267	893.1261388	9.80272
PIGCP1	0	6.667036389	617.8552649	9.271125	PNISR-AS1	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
EFCAB9	0	6.667036389	617.8552649	9.271125	SNHG26	14.9368776	0	547.0328046	9.095484	LINC02321	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	GPC5-IT1	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	HSPD1P11	14.9368776	0	547.0328046	9.095484	TMEM263-D	0	6.638612267	893.1261388	9.80272
CTAGE12P	0	6.667036389	617.8552649	9.271125	RNU6ATAC	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ZPR1P1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	DENND3-AS	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
BCRP1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ERFL	0	6.638612267	893.1261388	9.80272
C5orf67	0	6.667036389	617.8552649	9.271125	ZNF407-AS1	14.9368776	0	547.0328046	9.095484	RNVU1-31	0	6.638612267	893.1261388	9.80272
SALL1P1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
TUBB4AP1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
SLC25A38P1	0	6.667036389	617.8552649	9.271125	SAP30-DT	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
HINT1P1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
XRCC6P2	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.9368776	0	547.0328046	9.095484	DHRS11	0	6.638612267	893.1261388	9.80272

CHCHD2P8	0	6.667036389	617.8552649	9.271125	CHI3L1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
NUCB1-AS1	0	6.667036389	617.8552649	9.271125	SKAP1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	NRSN1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
EIF2AK1P1	0	6.667036389	617.8552649	9.271125	CCDC184	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
EZRP1	0	6.667036389	617.8552649	9.271125	ZNF284	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
LEFTY1	0	6.667036389	617.8552649	9.271125	TUBB2BP1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
WDR45P1	0	6.667036389	617.8552649	9.271125	MRPL20-AS	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
NCOA4P3	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	TEX41	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	RPS3AP37	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	SNHG31	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
KRT8P47	0	6.667036389	617.8552649	9.271125	LINC01725	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	SNTG2-AS1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	MKRN4P	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	NOL8P1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
NAXD-AS1	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
IGHV1OR21-	0	6.667036389	617.8552649	9.271125	MYL12-AS1	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
LINC02881	0	6.667036389	617.8552649	9.271125	LINC00664	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	ENSG000002	0	6.638612267	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	CROCCP2.1	0	6.638612267	893.1261388	9.80272
OR8B4	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	ICAM4	0	5.808785734	893.1261388	9.80272
TMEM247	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	PADI4	0	5.808785734	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	LINC01600	0	5.808785734	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	TAS2R1	0	5.808785734	893.1261388	9.80272
ENSG000002	0	6.667036389	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	SERF1A	0	5.808785734	893.1261388	9.80272
NRIP2	0	5.555863657	617.8552649	9.271125	ENSG000002	14.10705107	0	547.0328046	9.095484	ARL13A	0	5.808785734	893.1261388	9.80272
MT3	0	5.555863657	617.8552649	9.271125	TCF20	13.27722453	0	547.0328046	9.095484	MKRN3	0	5.808785734	893.1261388	9.80272
PRSS54	0	5.555863657	617.8552649	9.271125	BATF3	13.27722453	0	547.0328046	9.095484	NEUROG1	0	5.808785734	893.1261388	9.80272
NHP2P1	0	5.555863657	617.8552649	9.271125	ENSG000001	13.27722453	0	547.0328046	9.095484	ODF3L1	0	5.808785734	893.1261388	9.80272
TSPO2	0	5.555863657	617.8552649	9.271125	NDUFB9	13.27722453	0	547.0328046	9.095484	LINC00158	0	5.808785734	893.1261388	9.80272
PRM2	0	5.555863657	617.8552649	9.271125	C2orf50	13.27722453	0	547.0328046	9.095484	DIPK1C	0	5.808785734	893.1261388	9.80272
MIR9-1HG	0	5.555863657	617.8552649	9.271125	PCLAF	13.27722453	0	547.0328046	9.095484	FAM201A	0	5.808785734	893.1261388	9.80272
GNGT1	0	5.555863657	617.8552649	9.271125	OLIG1	13.27722453	0	547.0328046	9.095484	OLIG2	0	5.808785734	893.1261388	9.80272
MCHR1	0	5.555863657	617.8552649	9.271125	OR2AG2	13.27722453	0	547.0328046	9.095484	SNORA37	0	5.808785734	893.1261388	9.80272
PRRG3	0	5.555863657	617.8552649	9.271125	RNU5D-1	13.27722453	0	547.0328046	9.095484	RNA5SP474	0	5.808785734	893.1261388	9.80272
AGRP	0	5.555863657	617.8552649	9.271125	C21orf62-AS	13.27722453	0	547.0328046	9.095484	SYT3	0	5.808785734	893.1261388	9.80272
CD300LG	0	5.555863657	617.8552649	9.271125	LINC01456	13.27722453	0	547.0328046	9.095484	CLDN9	0	5.808785734	893.1261388	9.80272
H2AC1	0	5.555863657	617.8552649	9.271125	KATNBL1P(	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
TAC3	0	5.555863657	617.8552649	9.271125	TCP1P1	13.27722453	0	547.0328046	9.095484	BTBD10P2	0	5.808785734	893.1261388	9.80272
BFSP2	0	5.555863657	617.8552649	9.271125	MIR181A1H	13.27722453	0	547.0328046	9.095484	ZPR1P1	0	5.808785734	893.1261388	9.80272
TMEM270	0	5.555863657	617.8552649	9.271125	RN7SL832P	13.27722453	0	547.0328046	9.095484	RNU2-54P	0	5.808785734	893.1261388	9.80272
GK4P	0	5.555863657	617.8552649	9.271125	DNM1P35	13.27722453	0	547.0328046	9.095484	TFDP1P2	0	5.808785734	893.1261388	9.80272
H1-8	0	5.555863657	617.8552649	9.271125	SLIT2-IT1	13.27722453	0	547.0328046	9.095484	MIR503HG	0	5.808785734	893.1261388	9.80272
DEFB123	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	PAFAH1B1P.	0	5.808785734	893.1261388	9.80272
ENSG000001	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	SNRPGP15	0	5.808785734	893.1261388	9.80272
FTMT	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
OR4F15	0	5.555863657	617.8552649	9.271125	CSAG3	13.27722453	0	547.0328046	9.095484	CETN4P	0	5.808785734	893.1261388	9.80272
OR7E87P	0	5.555863657	617.8552649	9.271125	PDCD6IP-D	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
IQCF2	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
LCE5A	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	PWWP2AP1	0	5.808785734	893.1261388	9.80272
CHCHD2P9	0	5.555863657	617.8552649	9.271125	CEP83-DT	13.27722453	0	547.0328046	9.095484	GPR155-DT	0	5.808785734	893.1261388	9.80272
LCE2C	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	COX6CP15	0	5.808785734	893.1261388	9.80272
CHRNG	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
IL27	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	DAP3P2	0	5.808785734	893.1261388	9.80272
VN1R5	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
TEDDM1	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
TMEM88B	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	LINC01816	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	GUSBP2.1	13.27722453	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
GAGE10	0	5.555863657	617.8552649	9.271125	ENSG000002	13.27722453	0	547.0328046	9.095484	RPL15P5	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	PLCXD1	13.27722453	0	547.0328046	9.095484	PABPC5-AS1	0	5.808785734	893.1261388	9.80272
DKKL1P1	0	5.555863657	617.8552649	9.271125	IL17A	12.447398	0	547.0328046	9.095484	SNX18P7	0	5.808785734	893.1261388	9.80272
POM121L12	0	5.555863657	617.8552649	9.271125	EMX1	12.447398	0	547.0328046	9.095484	RPL7L1P3	0	5.808785734	893.1261388	9.80272
OR6X1	0	5.555863657	617.8552649	9.271125	SLC35F1	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	RNA5SP161	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	RNA5SP149	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
SAP18P2	0	5.555863657	617.8552649	9.271125	C2orf74-DT	12.447398	0	547.0328046	9.095484	OR8F1P	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	SOGA3	12.447398	0	547.0328046	9.095484	CBX5P1	0	5.808785734	893.1261388	9.80272
METTL15P3	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	TP73-AS3	12.447398	0	547.0328046	9.095484	MTFP1	0	5.808785734	893.1261388	9.80272
SLC25A5P5	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	LINC00960	0	5.808785734	893.1261388	9.80272
SLC6A6P1	0	5.555863657	617.8552649	9.271125	ACAP2-IT1	12.447398	0	547.0328046	9.095484	RN7SL623P	0	5.808785734	893.1261388	9.80272
PARP1P1	0	5.555863657	617.8552649	9.271125	MTCO2P12	12.447398	0	547.0328046	9.095484	CSTF3-DT	0	5.808785734	893.1261388	9.80272
PHB1P11	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	LRP4-AS1	0	5.808785734	893.1261388	9.80272
SEPTIN2P1	0	5.555863657	617.8552649	9.271125	LINC02428	12.447398	0	547.0328046	9.095484	GYPB	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	LINC02846	12.447398	0	547.0328046	9.095484	RNU6-123P	0	5.808785734	893.1261388	9.80272
B3GALNT1P	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	RNU4ATAC1	0	5.808785734	893.1261388	9.80272
RPL4P5	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
SLC25A53P1	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
RPS18P12	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ZNF793-AS1	12.447398	0	547.0328046	9.095484	FXYD6-AS1	0	5.808785734	893.1261388	9.80272
RANP8	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
RPSAP31	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	LINC02691	0	5.808785734	893.1261388	9.80272
TUBB8P11	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
DRG1P1	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
MYB-AS1	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
BTNL12P	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
RPS3AP49	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
FAM86LP	0	5.555863657	617.8552649	9.271125	LINC00581	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
GLYCTK-AS	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
RPL21P53	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
HSPA8P11	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	GAS5-AS1	0	5.808785734	893.1261388	9.80272
IGBP1P4	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
CXCL1P1	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
MFSD4BP1	0	5.555863657	617.8552649	9.271125	ENSG000002	12.447398	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	HOXA6	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	PPAN	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
TRBV6-8	0	5.555863657	617.8552649	9.271125	UCN2	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	C1QTNF2	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
LOXL2-AS1	0	5.555863657	617.8552649	9.271125	CDA	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272

IGHEP2	0	5.555863657	617.8552649	9.271125	CCDC178	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
PKMP4	0	5.555863657	617.8552649	9.271125	TMEM151B	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ANKRD33BP	0	5.555863657	617.8552649	9.271125	MUC6	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
RPA2P3	0	5.555863657	617.8552649	9.271125	SPATA41	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
PABPN1P2	0	5.555863657	617.8552649	9.271125	SARNP	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	LPAL2	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	KRTAP12-2	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	HMSD	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	LBX1-AS1	11.61757147	0	547.0328046	9.095484	ENSG000002	0	5.808785734	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	MTND2P2	11.61757147	0	547.0328046	9.095484	CCL1	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ADGRB3-DT	11.61757147	0	547.0328046	9.095484	IFI27L2	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	MTCYBP3	11.61757147	0	547.0328046	9.095484	OBP2A	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	BHLHE23	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	BARX1-DT	11.61757147	0	547.0328046	9.095484	TNFSF9	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	RN7SL67P	11.61757147	0	547.0328046	9.095484	FAM83C	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	LINC02211	11.61757147	0	547.0328046	9.095484	LBP	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	SLC41A3-AS	11.61757147	0	547.0328046	9.095484	CCL25	0	4.9789592	893.1261388	9.80272
CT45A3	0	5.555863657	617.8552649	9.271125	MTA1-DT	11.61757147	0	547.0328046	9.095484	MTNR1B	0	4.9789592	893.1261388	9.80272
FKBP1AP1	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	PNMT	0	4.9789592	893.1261388	9.80272
GPR32P1	0	5.555863657	617.8552649	9.271125	NRG1-IT3	11.61757147	0	547.0328046	9.095484	ZIC3	0	4.9789592	893.1261388	9.80272
OSTCP3	0	5.555863657	617.8552649	9.271125	TMEM9B-AS	11.61757147	0	547.0328046	9.095484	OTUD7A	0	4.9789592	893.1261388	9.80272
C1orf21-DT	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	TENM3-AS1	0	4.9789592	893.1261388	9.80272
KLC4-AS1	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	TBPL2	0	4.9789592	893.1261388	9.80272
MIR6813	0	5.555863657	617.8552649	9.271125	JDP2-AS1	11.61757147	0	547.0328046	9.095484	SPDYE4	0	4.9789592	893.1261388	9.80272
GUSBP19	0	5.555863657	617.8552649	9.271125	CD2BP2-DT	11.61757147	0	547.0328046	9.095484	CIDEC	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	COX6CP1	11.61757147	0	547.0328046	9.095484	OR5K4	0	4.9789592	893.1261388	9.80272
MIR6780B	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	MAGEA1	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	RNU4ATAC	11.61757147	0	547.0328046	9.095484	SNORA38B	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	LINC00526	11.61757147	0	547.0328046	9.095484	RNU6-137P	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	SNORA80A	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	IGFL4	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	MIR1205	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	LINC02840	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	NCBP2-AS1	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	SLC25A5P5	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	MYL12BP2	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	RPL7L1P8	0	4.9789592	893.1261388	9.80272
ENSG000002	0	5.555863657	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	LINC01690	0	4.9789592	893.1261388	9.80272
CEACAM21	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	LINC02607	0	4.9789592	893.1261388	9.80272
EPYC	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	PNPT1P1	0	4.9789592	893.1261388	9.80272
BRS3	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ANKRD26P4	0	4.9789592	893.1261388	9.80272
ADAM2	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	BCAN-AS2	0	4.9789592	893.1261388	9.80272
UCP1	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ATP6V1B1	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	DDX3P2	0	4.9789592	893.1261388	9.80272
FAM83C	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	RPS3AP3	0	4.9789592	893.1261388	9.80272
SLURP1	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
AANAT	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ACE2	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	LINC01680	0	4.9789592	893.1261388	9.80272
OCM2	0	4.444690926	617.8552649	9.271125	ENSG000002	11.61757147	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CLPS	0	4.444690926	617.8552649	9.271125	RPL23AP7.1	11.61757147	0	547.0328046	9.095484	LURAP1L-AS	0	4.9789592	893.1261388	9.80272
OR1E3	0	4.444690926	617.8552649	9.271125	SBDSP1	11.61757147	0	547.0328046	9.095484	HIGD2AP2	0	4.9789592	893.1261388	9.80272
OR5C1	0	4.444690926	617.8552649	9.271125	LINC01116	10.78774493	0	547.0328046	9.095484	GUSBP5	0	4.9789592	893.1261388	9.80272
UNC93B2	0	4.444690926	617.8552649	9.271125	OTP	10.78774493	0	547.0328046	9.095484	BRWD1-IT1	0	4.9789592	893.1261388	9.80272
NECAP2	0	4.444690926	617.8552649	9.271125	ENSG000001	10.78774493	0	547.0328046	9.095484	ERRFI1-DT	0	4.9789592	893.1261388	9.80272
LHX8	0	4.444690926	617.8552649	9.271125	STARD6	10.78774493	0	547.0328046	9.095484	UOX	0	4.9789592	893.1261388	9.80272
C7orf33	0	4.444690926	617.8552649	9.271125	LINC00482	10.78774493	0	547.0328046	9.095484	EIF2AK1P1	0	4.9789592	893.1261388	9.80272
INSL5	0	4.444690926	617.8552649	9.271125	SLC4A5	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
OR9G1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	FLJ42969	0	4.9789592	893.1261388	9.80272
OR10Q1	0	4.444690926	617.8552649	9.271125	CHKB-DT	10.78774493	0	547.0328046	9.095484	HSPD1P5	0	4.9789592	893.1261388	9.80272
OR1G1	0	4.444690926	617.8552649	9.271125	EIPR1-IT1	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
SPDYE4	0	4.444690926	617.8552649	9.271125	INE1	10.78774493	0	547.0328046	9.095484	LINC02377	0	4.9789592	893.1261388	9.80272
KRTAP8-1	0	4.444690926	617.8552649	9.271125	PLCB1-IT1	10.78774493	0	547.0328046	9.095484	RNU6-1045P	0	4.9789592	893.1261388	9.80272
TREML4	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	RNU6-126P	0	4.9789592	893.1261388	9.80272
MAGEB16	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
KRTAP10-12	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	HADHAP2	0	4.9789592	893.1261388	9.80272
CYP2A7P2	0	4.444690926	617.8552649	9.271125	MTND2P39	10.78774493	0	547.0328046	9.095484	LINC02378	0	4.9789592	893.1261388	9.80272
LRRC10	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	LINC03059	0	4.9789592	893.1261388	9.80272
LINC02901	0	4.444690926	617.8552649	9.271125	RPS27P4	10.78774493	0	547.0328046	9.095484	LINC02820	0	4.9789592	893.1261388	9.80272
CD177P1	0	4.444690926	617.8552649	9.271125	ARNILA	10.78774493	0	547.0328046	9.095484	MIR3171HG	0	4.9789592	893.1261388	9.80272
YWHAZP4	0	4.444690926	617.8552649	9.271125	SNRPGP10	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
RPL32P10	0	4.444690926	617.8552649	9.271125	MTND1P33	10.78774493	0	547.0328046	9.095484	CTXN2-AS1	0	4.9789592	893.1261388	9.80272
C1QBPP2	0	4.444690926	617.8552649	9.271125	LINC02646	10.78774493	0	547.0328046	9.095484	MESTP2	0	4.9789592	893.1261388	9.80272
RPL7AP50	0	4.444690926	617.8552649	9.271125	MKLN1-AS	10.78774493	0	547.0328046	9.095484	LINC02986	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NUDT16L2P	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CBX1P2	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	OR4C45	0	4.9789592	893.1261388	9.80272
AS3MT	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	DNAJA2-DT	0	4.9789592	893.1261388	9.80272
MESTP4	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
KRTAP10-10	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	RN7SL381P	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	TFIP11-DT	10.78774493	0	547.0328046	9.095484	SDHCP1	0	4.9789592	893.1261388	9.80272
TUBB8P6	0	4.444690926	617.8552649	9.271125	DDX19A-D1	10.78774493	0	547.0328046	9.095484	MIR3132	0	4.9789592	893.1261388	9.80272
SHMT1P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	RNASEH1P1	0	4.9789592	893.1261388	9.80272
MRPL36P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	LINC02073	0	4.9789592	893.1261388	9.80272
GRPEL2P2	0	4.444690926	617.8552649	9.271125	NARF-AS2	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
PPIAP37	0	4.444690926	617.8552649	9.271125	NDUFV2-AS	10.78774493	0	547.0328046	9.095484	HIKESHIP2	0	4.9789592	893.1261388	9.80272
MYL12BP2	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
UGT1A12P	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
GK3	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
PDE11A-AS1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
H3P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	CKS1BP3	0	4.9789592	893.1261388	9.80272
HMGN2P3	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
IGKV1OR22-	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CCT5P2	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ECE1-AS1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
SALL4P6	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
RPL15P22	0	4.444690926	617.8552649	9.271125	PARTICL	10.78774493	0	547.0328046	9.095484	CSGALNAC	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
PPIAP35	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272

ACTG1P21	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	FAM27E3	0	4.9789592	893.1261388	9.80272
DEFB130D	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
DDX3P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CHTF8P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	FUT8-AS1	0	4.9789592	893.1261388	9.80272
MFN1P1	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	10.78774493	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	LHX3	9.9579184	0	547.0328046	9.095484	LUNAR1	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	POU2AF2	9.9579184	0	547.0328046	9.095484	Metazoa_SRP	0	4.9789592	893.1261388	9.80272
C1DP2	0	4.444690926	617.8552649	9.271125	IL12A	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NHLH2	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NOTCH4	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
PKMP1	0	4.444690926	617.8552649	9.271125	SNORA7B	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
BZW1P1	0	4.444690926	617.8552649	9.271125	MIR548U	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CYP2F2P	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
MYADML	0	4.444690926	617.8552649	9.271125	RPS16P5	9.9579184	0	547.0328046	9.095484	GSEC	0	4.9789592	893.1261388	9.80272
TRBV25OR9	0	4.444690926	617.8552649	9.271125	CSRP1-AS1	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
KRT8P36	0	4.444690926	617.8552649	9.271125	ANKRD49P2	9.9579184	0	547.0328046	9.095484	LINC00842	0	4.9789592	893.1261388	9.80272
SPRR2A	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
INHCAP	0	4.444690926	617.8552649	9.271125	TEX46	9.9579184	0	547.0328046	9.095484	5S_rRNA.1	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	CNTNAP5-D	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
EVA1CP3	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
SDHDP3	0	4.444690926	617.8552649	9.271125	COA6-AS1	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
SLC9A9-AS2	0	4.444690926	617.8552649	9.271125	SLC25A5P4	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
UNC93B8	0	4.444690926	617.8552649	9.271125	LINC01424	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
SLC7A11-AS	0	4.444690926	617.8552649	9.271125	Y_RNA.114	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CCT6P2	0	4.444690926	617.8552649	9.271125	RN7SL329P	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
CCNO-DT	0	4.444690926	617.8552649	9.271125	RNF139-DT	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	SCAMP1-AS	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	RNU6-1016P	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
OR56A7P	0	4.444690926	617.8552649	9.271125	Y_RNA.125	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
LINC02963	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
OR6C73P	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	OR8G3P	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
LINC01500	0	4.444690926	617.8552649	9.271125	FRMD6-AS2	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
LINC02321	0	4.444690926	617.8552649	9.271125	CRTC3-AS1	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
PARP1P2	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	ENSG000002	0	4.9789592	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	SYPL1P2	9.9579184	0	547.0328046	9.095484	UPP2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	STON1-GTF2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	GML	0	4.149132667	893.1261388	9.80272
CAMTA2-AS	0	4.444690926	617.8552649	9.271125	ATP6V0D1-I	9.9579184	0	547.0328046	9.095484	SLURP1	0	4.149132667	893.1261388	9.80272
LINC01925	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	CGA	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	PPP1R21-DT	9.9579184	0	547.0328046	9.095484	PTH2	0	4.149132667	893.1261388	9.80272
FARSA-AS1	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	TATDN1	0	4.149132667	893.1261388	9.80272
UXT-AS1	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	SH2D6	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	RAET1E	0	4.149132667	893.1261388	9.80272
ARHGAP27P	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	RPL10L	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	CHRFAM7A	0	4.149132667	893.1261388	9.80272
FDX2	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	GPR182	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	BFSP2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	SHANK2-AS	0	4.149132667	893.1261388	9.80272
MOB4P2	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	TEX37	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	OR8I2	0	4.149132667	893.1261388	9.80272
GRIFIN	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	OR1L1	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	RAX2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	RPL7AP66	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	H3P47	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	TXLNGY	9.9579184	0	547.0328046	9.095484	OR52N2	0	4.149132667	893.1261388	9.80272
RN7SKP23	0	4.444690926	617.8552649	9.271125	ENSG000002	9.9579184	0	547.0328046	9.095484	MCEMP1	0	4.149132667	893.1261388	9.80272
LINC02204	0	4.444690926	617.8552649	9.271125	TBC1D30	9.128091867	0	547.0328046	9.095484	NPB	0	4.149132667	893.1261388	9.80272
FKBP1AP4	0	4.444690926	617.8552649	9.271125	BCL11B	9.128091867	0	547.0328046	9.095484	OR56A5	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	SRD5A3	9.128091867	0	547.0328046	9.095484	SPANXN3	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NUSAP1	9.128091867	0	547.0328046	9.095484	LYPD2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	SLC39A4	9.128091867	0	547.0328046	9.095484	FAM47C	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NEIL2	9.128091867	0	547.0328046	9.095484	Y_RNA.3	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	WNT7A	9.128091867	0	547.0328046	9.095484	RNA5SP195	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	NTAN1	9.128091867	0	547.0328046	9.095484	Y_RNA.27	0	4.149132667	893.1261388	9.80272
ENSG000002	0	4.444690926	617.8552649	9.271125	SUSD3	9.128091867	0	547.0328046	9.095484	RNA5SP242	0	4.149132667	893.1261388	9.80272
GTF2IRD1P1	0	4.444690926	617.8552649	9.271125	TMSB15B	9.128091867	0	547.0328046	9.095484	SNORA14A	0	4.149132667	893.1261388	9.80272
LGALS13	0	3.333518194	617.8552649	9.271125	SLC6A18	9.128091867	0	547.0328046	9.095484	RN7SKP9	0	4.149132667	893.1261388	9.80272
DLX4	0	3.333518194	617.8552649	9.271125	TLX3	9.128091867	0	547.0328046	9.095484	RNU6-8	0	4.149132667	893.1261388	9.80272
PPY	0	3.333518194	617.8552649	9.271125	C12orf50	9.128091867	0	547.0328046	9.095484	RN7SKP269	0	4.149132667	893.1261388	9.80272
SMR3A	0	3.333518194	617.8552649	9.271125	RND1	9.128091867	0	547.0328046	9.095484	MAMDC2-A	0	4.149132667	893.1261388	9.80272
ELOVL3	0	3.333518194	617.8552649	9.271125	ANXA2R	9.128091867	0	547.0328046	9.095484	OR6C1	0	4.149132667	893.1261388	9.80272
ANKRD60	0	3.333518194	617.8552649	9.271125	C3orf22	9.128091867	0	547.0328046	9.095484	LINC03041	0	4.149132667	893.1261388	9.80272
C20orf85	0	3.333518194	617.8552649	9.271125	FUNDC2P2	9.128091867	0	547.0328046	9.095484	SNORA2A	0	4.149132667	893.1261388	9.80272
SIRPD	0	3.333518194	617.8552649	9.271125	SPAG16-DT	9.128091867	0	547.0328046	9.095484	MIR454	0	4.149132667	893.1261388	9.80272
APCS	0	3.333518194	617.8552649	9.271125	HBG2	9.128091867	0	547.0328046	9.095484	RNU6-1177P	0	4.149132667	893.1261388	9.80272
CHRND	0	3.333518194	617.8552649	9.271125	LINC01560	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SH3GL3	0	3.333518194	617.8552649	9.271125	Y_RNA.5	9.128091867	0	547.0328046	9.095484	KRTAP12-4	0	4.149132667	893.1261388	9.80272
ARHGAP17	0	3.333518194	617.8552649	9.271125	Y_RNA.55	9.128091867	0	547.0328046	9.095484	DNLZ	0	4.149132667	893.1261388	9.80272
CDCP2	0	3.333518194	617.8552649	9.271125	AMZ2P1	9.128091867	0	547.0328046	9.095484	PGK1P2	0	4.149132667	893.1261388	9.80272
SPRR3	0	3.333518194	617.8552649	9.271125	GOLGA2P8	9.128091867	0	547.0328046	9.095484	PDPR2P	0	4.149132667	893.1261388	9.80272
GPR182	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	CYB5AP2	0	4.149132667	893.1261388	9.80272
SPRR1B	0	3.333518194	617.8552649	9.271125	RPL7P7	9.128091867	0	547.0328046	9.095484	CTAGE12P	0	4.149132667	893.1261388	9.80272
TEX13B	0	3.333518194	617.8552649	9.271125	NFIB-AS1	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
XAGE3	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RNU6ATAC	0	4.149132667	893.1261388	9.80272
REG1B	0	3.333518194	617.8552649	9.271125	LINC02575	9.128091867	0	547.0328046	9.095484	HDAC4-AS1	0	4.149132667	893.1261388	9.80272
ACTE1P	0	3.333518194	617.8552649	9.271125	BTG2-DT	9.128091867	0	547.0328046	9.095484	C10orf55	0	4.149132667	893.1261388	9.80272
FAM220BP	0	3.333518194	617.8552649	9.271125	NANOGP4	9.128091867	0	547.0328046	9.095484	RNU2-50P	0	4.149132667	893.1261388	9.80272
ASCL3	0	3.333518194	617.8552649	9.271125	SAMMSON	9.128091867	0	547.0328046	9.095484	SAP18P2	0	4.149132667	893.1261388	9.80272
OR2G2	0	3.333518194	617.8552649	9.271125	LINC00996	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SLC35G5	0	3.333518194	617.8552649	9.271125	RN7SL683P	9.128091867	0	547.0328046	9.095484	LINC01117	0	4.149132667	893.1261388	9.80272
TNP2	0	3.333518194	617.8552649	9.271125	LINC02046	9.128091867	0	547.0328046	9.095484	KCNC4-DT	0	4.149132667	893.1261388	9.80272
OR2A4	0	3.333518194	617.8552649	9.271125	EXTL3-AS1	9.128091867	0	547.0328046	9.095484	LINC01594	0	4.149132667	893.1261388	9.80272
HOXC10	0	3.333518194	617.8552649	9.271125	SOCS2-AS1	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR52N2	0	3.333518194	617.8552649	9.271125	LINC02438	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
KRTAP13-2	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ISCA2P1	0	4.149132667	893.1261388	9.80272
SRY	0	3.333518194	617.8552649	9.271125	ANKRD20A	9.128091867	0	547.0328046	9.095484	NCKAP5-AS	0	4.149132667	893.1261388	9.80272

NT5C1B	0	3.333518194	617.8552649	9.271125	LINC02113	9.128091867	0	547.0328046	9.095484	FKBP14-AS1	0	4.149132667	893.1261388	9.80272
FFAR3	0	3.333518194	617.8552649	9.271125	LINC00964	9.128091867	0	547.0328046	9.095484	NAA20P1	0	4.149132667	893.1261388	9.80272
DEFB131A	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR9Q2	0	3.333518194	617.8552649	9.271125	FLJ20021	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
KRTAP13-4	0	3.333518194	617.8552649	9.271125	BRWD1-AS2	9.128091867	0	547.0328046	9.095484	EFCAB14P1	0	4.149132667	893.1261388	9.80272
TERF1P2	0	3.333518194	617.8552649	9.271125	MIR9-3HG	9.128091867	0	547.0328046	9.095484	HDAC2-AS2	0	4.149132667	893.1261388	9.80272
PLA2G2C	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR8D1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	THRB-AS1	0	4.149132667	893.1261388	9.80272
FAM163B	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000001	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SNORA63C	0	3.333518194	617.8552649	9.271125	LINC01413	9.128091867	0	547.0328046	9.095484	LINC01614	0	4.149132667	893.1261388	9.80272
P2RX6P	0	3.333518194	617.8552649	9.271125	LINC01290	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
TSSK2	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	GORAB-AS1	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	HINT1P1	0	4.149132667	893.1261388	9.80272
KRTAP6-3	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	PIK3CD-AS2	0	4.149132667	893.1261388	9.80272
PRDX2P4	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	HSPE1P25	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	LINC01063	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	VDAC1P13	0	4.149132667	893.1261388	9.80272
LTC4S	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	WBP1P2	0	4.149132667	893.1261388	9.80272
GAPDHP44	0	3.333518194	617.8552649	9.271125	NFYC-AS1	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
CISD1P1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	LINC01694	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	H3C8	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RPL3P6	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
WEE2	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
MAGEB1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	KDM4A-AS1	0	4.149132667	893.1261388	9.80272
SPDYE3	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	PKMP1	0	4.149132667	893.1261388	9.80272
SLC25A5P1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	SIX3-AS1	0	4.149132667	893.1261388	9.80272
BCRP4	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	IFITM3P1	0	4.149132667	893.1261388	9.80272
SIAH3	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	OR4A47	0	4.149132667	893.1261388	9.80272
RPL12P2	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	OR9A1P	0	4.149132667	893.1261388	9.80272
POM121L4P	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	PAGE2B	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RN7SL333P	0	4.149132667	893.1261388	9.80272
ADAMTS7P4	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RPL37P2	0	4.149132667	893.1261388	9.80272
ACTBP8	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	DENND6A-A	0	4.149132667	893.1261388	9.80272
MRPL35P1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ETF1P2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RN7SL23P	0	4.149132667	893.1261388	9.80272
POM121L10P	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	LINC00877	0	4.149132667	893.1261388	9.80272
THAP5P1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RN7SL767P	0	4.149132667	893.1261388	9.80272
MAGEA7P	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RPL21P46	0	4.149132667	893.1261388	9.80272
KRT18P39	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	TMEFF1	0	4.149132667	893.1261388	9.80272
SBF1P2	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RPS12P7	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	RPL5P33	0	4.149132667	893.1261388	9.80272
FCF1P6	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
MRPS11P1	0	3.333518194	617.8552649	9.271125	ENSG000002	9.128091867	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RWDD3-DT	0	3.333518194	617.8552649	9.271125	CCL24	8.298265334	0	547.0328046	9.095484	EFL1P2	0	4.149132667	893.1261388	9.80272
ZNF32-AS1	0	3.333518194	617.8552649	9.271125	KLHDC7B	8.298265334	0	547.0328046	9.095484	SNORA58	0	4.149132667	893.1261388	9.80272
LINC02089	0	3.333518194	617.8552649	9.271125	ZNF20	8.298265334	0	547.0328046	9.095484	SUMO2P6	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	BTG4	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC01035	0	3.333518194	617.8552649	9.271125	S100B	8.298265334	0	547.0328046	9.095484	PPIAP77	0	4.149132667	893.1261388	9.80272
FTOP1	0	3.333518194	617.8552649	9.271125	RYBP	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
IPMKP1	0	3.333518194	617.8552649	9.271125	NPY1R	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
NAALADL2-	0	3.333518194	617.8552649	9.271125	CALB2	8.298265334	0	547.0328046	9.095484	MARCHF11-	0	4.149132667	893.1261388	9.80272
LINC00161	0	3.333518194	617.8552649	9.271125	ATP6AP1-D	8.298265334	0	547.0328046	9.095484	TACR3-AS1	0	4.149132667	893.1261388	9.80272
NEDD8P1	0	3.333518194	617.8552649	9.271125	Y_RNA.40	8.298265334	0	547.0328046	9.095484	LINC02754	0	4.149132667	893.1261388	9.80272
LRRC2P1	0	3.333518194	617.8552649	9.271125	SNORA5C	8.298265334	0	547.0328046	9.095484	SCARNA23	0	4.149132667	893.1261388	9.80272
ZMYM4-AS1	0	3.333518194	617.8552649	9.271125	LIPN	8.298265334	0	547.0328046	9.095484	RNU2-58P	0	4.149132667	893.1261388	9.80272
ATP5MC1P5	0	3.333518194	617.8552649	9.271125	SYT15	8.298265334	0	547.0328046	9.095484	RNA5SP281	0	4.149132667	893.1261388	9.80272
LINC00355	0	3.333518194	617.8552649	9.271125	IGHA1	8.298265334	0	547.0328046	9.095484	RNU6-107P	0	4.149132667	893.1261388	9.80272
HNRNPA3P2	0	3.333518194	617.8552649	9.271125	SCRT2	8.298265334	0	547.0328046	9.095484	RNU6-789P	0	4.149132667	893.1261388	9.80272
DNAJB6P4	0	3.333518194	617.8552649	9.271125	HIGD1AP16	8.298265334	0	547.0328046	9.095484	LINC03044	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	EPB41L4A-A	8.298265334	0	547.0328046	9.095484	SMIM18	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	PTPN2P2	8.298265334	0	547.0328046	9.095484	RNU6-323P	0	4.149132667	893.1261388	9.80272
RPSAP1	0	3.333518194	617.8552649	9.271125	NUP50-DT	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC02607	0	3.333518194	617.8552649	9.271125	RPS7P10	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RPL21P24	0	3.333518194	617.8552649	9.271125	DCAF8-DT	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	LINC00595	8.298265334	0	547.0328046	9.095484	SIGLEC10-A	0	4.149132667	893.1261388	9.80272
METTL21AP	0	3.333518194	617.8552649	9.271125	KLHL7-DT	8.298265334	0	547.0328046	9.095484	NDFIP1P1	0	4.149132667	893.1261388	9.80272
NEK2P4	0	3.333518194	617.8552649	9.271125	LINC01804	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ERLNC1	0	3.333518194	617.8552649	9.271125	LRRC8C-DT	8.298265334	0	547.0328046	9.095484	LINC02552	0	4.149132667	893.1261388	9.80272
GSTA10P	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
TSEN15P1	0	3.333518194	617.8552649	9.271125	LINC01719	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SHQ1P1	0	3.333518194	617.8552649	9.271125	LINC02983	8.298265334	0	547.0328046	9.095484	LINC02417	0	4.149132667	893.1261388	9.80272
MCF2L2P1	0	3.333518194	617.8552649	9.271125	LINC00412	8.298265334	0	547.0328046	9.095484	SLC25A3P2	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	SLC20A1-D	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
CNOT7P2	0	3.333518194	617.8552649	9.271125	KLF7-IT1	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RPLP0P5	0	3.333518194	617.8552649	9.271125	PSMD6-AS2	8.298265334	0	547.0328046	9.095484	FDPSP3	0	4.149132667	893.1261388	9.80272
HSD17B7P1	0	3.333518194	617.8552649	9.271125	RPL21P95	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC02669	0	3.333518194	617.8552649	9.271125	NSMCE1-DT	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
PPIAP34	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	SH3RF3-AS1	0	4.149132667	893.1261388	9.80272
GPR50-AS1	0	3.333518194	617.8552649	9.271125	NUP107-DT	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	LINC01574	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
PSMB3P2	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	C16orf95	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	MYL12BP1	0	4.149132667	893.1261388	9.80272
CLEC2L	0	3.333518194	617.8552649	9.271125	MRPS30-DT	8.298265334	0	547.0328046	9.095484	CORO1A-AS	0	4.149132667	893.1261388	9.80272
EEF1A1P44	0	3.333518194	617.8552649	9.271125	FAR1-IT1	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SPA17P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
PHKG1P3	0	3.333518194	617.8552649	9.271125	DNAAF4	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	CNPY2-AS1	8.298265334	0	547.0328046	9.095484	DPH1-AS1	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	RSL1D1-DT	0	4.149132667	893.1261388	9.80272
SPIN2P1	0	3.333518194	617.8552649	9.271125	GLIPR1-AS1	8.298265334	0	547.0328046	9.095484	MIR5011	0	4.149132667	893.1261388	9.80272
ACTG1P19	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	MIR5581	0	4.149132667	893.1261388	9.80272
NMNAT1P3	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
TBC1D3P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RPL39P36	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	SWINGN	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
RPL36AP41	0	3.333518194	617.8552649	9.271125	PDCD6IPP2	8.298265334	0	547.0328046	9.095484	PIN1-DT	0	4.149132667	893.1261388	9.80272
LINC00960	0	3.333518194	617.8552649	9.271125	SSTR5-AS1	8.298265334	0	547.0328046	9.095484	SCGB1B2P	0	4.149132667	893.1261388	9.80272
RPL21P127	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	LIM2-AS1	0	4.149132667	893.1261388	9.80272
EIF4BP8	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	LINC01224	0	4.149132667	893.1261388	9.80272

ATP6V0CP2	0	3.333518194	617.8552649	9.271125	MTCYBP33	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC02014	0	3.333518194	617.8552649	9.271125	MIR4480	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SNORA58	0	3.333518194	617.8552649	9.271125	NOTCH2NL	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
CTNNA1P1	0	3.333518194	617.8552649	9.271125	MIR5003	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
GCLC-AS1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
KRT19P3	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC00536	0	3.333518194	617.8552649	9.271125	CARD8-AS1	8.298265334	0	547.0328046	9.095484	TMEM14B-D	0	4.149132667	893.1261388	9.80272
GOLGA8K	0	3.333518194	617.8552649	9.271125	LPP-AS2	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
KRT8P32	0	3.333518194	617.8552649	9.271125	PRKACB-D1	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	WDR5-DT	0	4.149132667	893.1261388	9.80272
TSEN2P1	0	3.333518194	617.8552649	9.271125	TTC23L-AS1	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
KHDC1P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	RNVU1-29	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SLC25A51P3	0	3.333518194	617.8552649	9.271125	LCDR	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SNRPCP14	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ANKRD33BP	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR7E1P	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ATF4P4	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
HNRNPA1P5	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
GSTP1P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	LINC01163	0	4.149132667	893.1261388	9.80272
SLC25A3P2	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR7E106P	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC02303	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	MIR4434	0	4.149132667	893.1261388	9.80272
LINC00928	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
GH1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	DINOL	0	4.149132667	893.1261388	9.80272
KRT8P9	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
FRG2JP	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
C16orf95	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
HERC2P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR1P1	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
OR52L2P	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
UBL5P2	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	XGY2	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
DPY19L3-DT	0	3.333518194	617.8552649	9.271125	ENSG000002	8.298265334	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	DPEP1	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	HES2	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
LINC01482	0	3.333518194	617.8552649	9.271125	AMBP	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	MT1G	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	PRRG2	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	GSTT2B	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
SIGLEC20P	0	3.333518194	617.8552649	9.271125	PMAIP1	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	MAGEA4	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	KCNJ1	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	SLC35A1	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	SP8	7.4684388	0	547.0328046	9.095484	ENSG000002	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	P2RY2	7.4684388	0	547.0328046	9.095484	GUSBP1	0	4.149132667	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	KCNE1	7.4684388	0	547.0328046	9.095484	PGLYRP1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	LINC03040	7.4684388	0	547.0328046	9.095484	EPYC	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	SIX6	7.4684388	0	547.0328046	9.095484	BIRC7	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ALKAL1	7.4684388	0	547.0328046	9.095484	GPR50	0	3.319306133	893.1261388	9.80272
FAM47E-STE	0	3.333518194	617.8552649	9.271125	MAGEA6	7.4684388	0	547.0328046	9.095484	FGF21	0	3.319306133	893.1261388	9.80272
WASL-DT	0	3.333518194	617.8552649	9.271125	FAM110D	7.4684388	0	547.0328046	9.095484	ATP6V1B1	0	3.319306133	893.1261388	9.80272
APP-DT	0	3.333518194	617.8552649	9.271125	STPG3	7.4684388	0	547.0328046	9.095484	DPPA5P4	0	3.319306133	893.1261388	9.80272
RNVU1-29	0	3.333518194	617.8552649	9.271125	RNA5SP145	7.4684388	0	547.0328046	9.095484	SCP2D1	0	3.319306133	893.1261388	9.80272
MYO5BP1	0	3.333518194	617.8552649	9.271125	RNU6-652P	7.4684388	0	547.0328046	9.095484	LRTM1	0	3.319306133	893.1261388	9.80272
FLJ36000	0	3.333518194	617.8552649	9.271125	MT1M	7.4684388	0	547.0328046	9.095484	SPIN2A	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	Y_RNA.94	7.4684388	0	547.0328046	9.095484	RIPPLY1	0	3.319306133	893.1261388	9.80272
GOLGA6L6	0	3.333518194	617.8552649	9.271125	SNORA80E	7.4684388	0	547.0328046	9.095484	GSDMC	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	MIR553	7.4684388	0	547.0328046	9.095484	MS4A3	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	MT-TF	7.4684388	0	547.0328046	9.095484	TMIGD2	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	IGKV4-1	7.4684388	0	547.0328046	9.095484	RNASE8	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	IGLV3-21	7.4684388	0	547.0328046	9.095484	OR2Y1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	TUBA5P	7.4684388	0	547.0328046	9.095484	TMEM270	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	BCRP3	7.4684388	0	547.0328046	9.095484	GLULP4	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	GPR89P	7.4684388	0	547.0328046	9.095484	LINC00324	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ZDHHC12-D	7.4684388	0	547.0328046	9.095484	RPRML	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	MRGPRX4	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	LINC01014	7.4684388	0	547.0328046	9.095484	LSMEM1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	UBE2SP2	7.4684388	0	547.0328046	9.095484	KCTD9P2	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	OR4C15	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	MTND4P32	7.4684388	0	547.0328046	9.095484	OR52A1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	LINC02611	7.4684388	0	547.0328046	9.095484	LHFPL1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	3.333518194	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	OR4F15	0	3.319306133	893.1261388	9.80272
SLC6A10P	0	3.333518194	617.8552649	9.271125	MTATP6P19	7.4684388	0	547.0328046	9.095484	TRIM61	0	3.319306133	893.1261388	9.80272
EMBP1	0	3.333518194	617.8552649	9.271125	UBAC2-AS1	7.4684388	0	547.0328046	9.095484	OR6C70	0	3.319306133	893.1261388	9.80272
CFH	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	UBL4B	0	3.319306133	893.1261388	9.80272
UPP2	0	2.222345463	617.8552649	9.271125	MBNL1-AS1	7.4684388	0	547.0328046	9.095484	OR6P1	0	3.319306133	893.1261388	9.80272
GUCA1A	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ERAS	0	3.319306133	893.1261388	9.80272
NMRK2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ALOX15P2	0	3.319306133	893.1261388	9.80272
CGB2	0	2.222345463	617.8552649	9.271125	LARGE-IT1	7.4684388	0	547.0328046	9.095484	MIR324	0	3.319306133	893.1261388	9.80272
CLC	0	2.222345463	617.8552649	9.271125	LINC00867	7.4684388	0	547.0328046	9.095484	RNU1-108P	0	3.319306133	893.1261388	9.80272

APOC3	0	2.222345463	617.8552649	9.271125	CHORDC1P	7.4684388	0	547.0328046	9.095484	ENSG000001	0	3.319306133	893.1261388	9.80272
TNP1	0	2.222345463	617.8552649	9.271125	H3P31	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OBP2A	0	2.222345463	617.8552649	9.271125	LINC01166	7.4684388	0	547.0328046	9.095484	Y_RNA.45	0	3.319306133	893.1261388	9.80272
SPINK4	0	2.222345463	617.8552649	9.271125	EIF2AK3-DT	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PFDN5	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SNORA72	0	3.319306133	893.1261388	9.80272
NRL	0	2.222345463	617.8552649	9.271125	G3BP1P1	7.4684388	0	547.0328046	9.095484	RNA5SP428	0	3.319306133	893.1261388	9.80272
EGR4	0	2.222345463	617.8552649	9.271125	DDX5P1	7.4684388	0	547.0328046	9.095484	RN7SKP80	0	3.319306133	893.1261388	9.80272
SLC25A47	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	VTRNA1-2	0	3.319306133	893.1261388	9.80272
LRTM1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	LINC02487	0	3.319306133	893.1261388	9.80272
PSMA8	0	2.222345463	617.8552649	9.271125	MTCO2P19	7.4684388	0	547.0328046	9.095484	RPL26L1-AS	0	3.319306133	893.1261388	9.80272
LCE2B	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ERICH4	0	3.319306133	893.1261388	9.80272
CARTPT	0	2.222345463	617.8552649	9.271125	FLNB-AS1	7.4684388	0	547.0328046	9.095484	TMEM88B	0	3.319306133	893.1261388	9.80272
DRGX	0	2.222345463	617.8552649	9.271125	PRR7-AS1	7.4684388	0	547.0328046	9.095484	LINC00898	0	3.319306133	893.1261388	9.80272
ANKRD2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SMIM45	0	3.319306133	893.1261388	9.80272
OR5P1P	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SNORD116-1	0	3.319306133	893.1261388	9.80272
OR13J1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SNORA72.1	0	3.319306133	893.1261388	9.80272
TAS2R1	0	2.222345463	617.8552649	9.271125	BCLAF1P1	7.4684388	0	547.0328046	9.095484	SNORD38D	0	3.319306133	893.1261388	9.80272
COX7B2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	RNU6-925P	0	3.319306133	893.1261388	9.80272
OR10W1	0	2.222345463	617.8552649	9.271125	SETP12	7.4684388	0	547.0328046	9.095484	SNORA66	0	3.319306133	893.1261388	9.80272
GPR151	0	2.222345463	617.8552649	9.271125	ZNF346-IT1	7.4684388	0	547.0328046	9.095484	MIR559	0	3.319306133	893.1261388	9.80272
PRPF8	0	2.222345463	617.8552649	9.271125	RN7SKP155	7.4684388	0	547.0328046	9.095484	MIR603	0	3.319306133	893.1261388	9.80272
TTC9B	0	2.222345463	617.8552649	9.271125	MIR200CHG	7.4684388	0	547.0328046	9.095484	SNORD12C	0	3.319306133	893.1261388	9.80272
RPL7AP66	0	2.222345463	617.8552649	9.271125	GIHCG	7.4684388	0	547.0328046	9.095484	TRAV2	0	3.319306133	893.1261388	9.80272
C1orf167-AS1	0	2.222345463	617.8552649	9.271125	LINC00638	7.4684388	0	547.0328046	9.095484	TRAJ58	0	3.319306133	893.1261388	9.80272
GLULP4	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SNORD70	0	3.319306133	893.1261388	9.80272
CLRN3	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OR56A1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	TCL1B	0	3.319306133	893.1261388	9.80272
MAPK15	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	RPL7AP39	0	3.319306133	893.1261388	9.80272
PPIAP73	0	2.222345463	617.8552649	9.271125	MIR5002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ODF3L1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	AGGF1P1	0	3.319306133	893.1261388	9.80272
OTOP2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	HMGB3P13	0	3.319306133	893.1261388	9.80272
TRBV21OR9-	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SPDYE3	0	3.319306133	893.1261388	9.80272
OR51J1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	VPS33B-DT	0	3.319306133	893.1261388	9.80272
OR51M1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
AQP12A	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	TOMM40P2	0	3.319306133	893.1261388	9.80272
MYADML2	0	2.222345463	617.8552649	9.271125	MIR222HG	7.4684388	0	547.0328046	9.095484	HTR5A-AS1	0	3.319306133	893.1261388	9.80272
HSF1	0	2.222345463	617.8552649	9.271125	HMGN3-AS1	7.4684388	0	547.0328046	9.095484	BOLA2P3	0	3.319306133	893.1261388	9.80272
SLC51B	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	MIR548T	0	3.319306133	893.1261388	9.80272
OR9Q1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	RN7SKP154	0	3.319306133	893.1261388	9.80272
KRTAP6-2	0	2.222345463	617.8552649	9.271125	LINC03060	7.4684388	0	547.0328046	9.095484	RFPL4A	0	3.319306133	893.1261388	9.80272
LINC00943	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	LINC03076	0	3.319306133	893.1261388	9.80272
ANKRD36B	0	2.222345463	617.8552649	9.271125	RN7SL600P	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SNORA38B	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SKP292	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	LINC01832	0	3.319306133	893.1261388	9.80272
CT83	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	PORCN-DT	0	3.319306133	893.1261388	9.80272
RXRB	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	GTF2IP5	0	3.319306133	893.1261388	9.80272
GABBR1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	CHL1-AS2	0	3.319306133	893.1261388	9.80272
FOXD4L5	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	NDUFA4P1	0	3.319306133	893.1261388	9.80272
ERICH4	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OLIG2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	EIF4A2P4	0	3.319306133	893.1261388	9.80272
KRTAP20-4	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SNORD116-1	0	2.222345463	617.8552649	9.271125	LINC01232	7.4684388	0	547.0328046	9.095484	YBX1P8	0	3.319306133	893.1261388	9.80272
IGLJ7	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
KRTAP10-3	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL17P8	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	UPK1A-AS1	0	3.319306133	893.1261388	9.80272
KRT18P68	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	IMPDH1P7	0	3.319306133	893.1261388	9.80272
RNF11P1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	SUB1P1	0	3.319306133	893.1261388	9.80272
IFITM9P	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	HPN-AS1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
YBX2P1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PPIAP42	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	HNRNPA1P4	0	3.319306133	893.1261388	9.80272
FAM220CP	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	LINC01209	0	3.319306133	893.1261388	9.80272
CYP2A7P1	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	RANBP1P1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC00887	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	FAM207BP	0	3.319306133	893.1261388	9.80272
TUBBP2	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	HNRNPA1P6	0	3.319306133	893.1261388	9.80272
KRT8P14	0	2.222345463	617.8552649	9.271125	ZNF876P.1	7.4684388	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
FOXO1B	0	2.222345463	617.8552649	9.271125	ADCY10P1.	7.4684388	0	547.0328046	9.095484	FABP5P4	0	3.319306133	893.1261388	9.80272
CTBP2P5	0	2.222345463	617.8552649	9.271125	ENSG000002	7.4684388	0	547.0328046	9.095484	RPL21P44	0	3.319306133	893.1261388	9.80272
RPS19P1	0	2.222345463	617.8552649	9.271125	SEC14L3	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TAF7L	6.638612267	0	547.0328046	9.095484	HMGN2P3	0	3.319306133	893.1261388	9.80272
RPL24P7	0	2.222345463	617.8552649	9.271125	FKBP1B	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HMGB3P24	0	2.222345463	617.8552649	9.271125	CFP	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PPIAP1	0	2.222345463	617.8552649	9.271125	GUCA1C	6.638612267	0	547.0328046	9.095484	RPS3AP13	0	3.319306133	893.1261388	9.80272
KRT18P12	0	2.222345463	617.8552649	9.271125	PASD1	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
FEN1P1	0	2.222345463	617.8552649	9.271125	GPRC6A	6.638612267	0	547.0328046	9.095484	NEK2-DT	0	3.319306133	893.1261388	9.80272
EEF1A1P46	0	2.222345463	617.8552649	9.271125	TEX36	6.638612267	0	547.0328046	9.095484	EZH2P1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TIMM23B-A	6.638612267	0	547.0328046	9.095484	LINC03078	0	3.319306133	893.1261388	9.80272
OR4F7P	0	2.222345463	617.8552649	9.271125	LINC00311	6.638612267	0	547.0328046	9.095484	ASCL5	0	3.319306133	893.1261388	9.80272
POM121L14F	0	2.222345463	617.8552649	9.271125	TH	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
IMPDH1P9	0	2.222345463	617.8552649	9.271125	HSP90AA6P	6.638612267	0	547.0328046	9.095484	RPL21P134	0	3.319306133	893.1261388	9.80272
MRPL32P1	0	2.222345463	617.8552649	9.271125	ZAR1	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
C11orf98P2	0	2.222345463	617.8552649	9.271125	UFD1-AS1	6.638612267	0	547.0328046	9.095484	SYNJ2-IT1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SIGLEC15	6.638612267	0	547.0328046	9.095484	AMZ2P3	0	3.319306133	893.1261388	9.80272
MIR1251	0	2.222345463	617.8552649	9.271125	TEX45	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SNORA77	0	2.222345463	617.8552649	9.271125	MTCO3P12	6.638612267	0	547.0328046	9.095484	LINC03068	0	3.319306133	893.1261388	9.80272
FAM218BP	0	2.222345463	617.8552649	9.271125	RNU5F-1	6.638612267	0	547.0328046	9.095484	LINC01505	0	3.319306133	893.1261388	9.80272
HEPN1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TTC4P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
Y_RNA.105	0	2.222345463	617.8552649	9.271125	IBA57-DT	6.638612267	0	547.0328046	9.095484	CDK5R2-AS1	0	3.319306133	893.1261388	9.80272
RNA5SP25	0	2.222345463	617.8552649	9.271125	KRT81	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CATSPER2P	6.638612267	0	547.0328046	9.095484	GRM7-AS1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MIR578	6.638612267	0	547.0328046	9.095484	CLEC2L	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MIR648	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MT-TD	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL32P6	0	2.222345463	617.8552649	9.271125	IGHG2	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SLC31A1P1	0	2.222345463	617.8552649	9.271125	C1orf220	6.638612267	0	547.0328046	9.095484	ZNF295-AS1	0	3.319306133	893.1261388	9.80272
NDUFA4P1	0	2.222345463	617.8552649	9.271125	RBBP4P4	6.638612267	0	547.0328046	9.095484	LINC01866	0	3.319306133	893.1261388	9.80272
LINC00320	0	2.222345463	617.8552649	9.271125	KRTAP10-1	6.638612267	0	547.0328046	9.095484	LINC01143	0	3.319306133	893.1261388	9.80272
KIF4CP	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	LINC01370	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272

ICMT-DT	0	2.222345463	617.8552649	9.271125	SNORD100	6.638612267	0	547.0328046	9.095484	LINC01885	0	3.319306133	893.1261388	9.80272
DUTP6	0	2.222345463	617.8552649	9.271125	SNORA11	6.638612267	0	547.0328046	9.095484	GOLGA2P5	0	3.319306133	893.1261388	9.80272
HNRNPA3P1	0	2.222345463	617.8552649	9.271125	MTND6P21	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC03007	6.638612267	0	547.0328046	9.095484	LINC01448	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	DIP2A-IT1	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPS10P10	0	2.222345463	617.8552649	9.271125	LINC01208	6.638612267	0	547.0328046	9.095484	SUGT1P3	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	NHSL1-AS1	6.638612267	0	547.0328046	9.095484	LINC01471	0	3.319306133	893.1261388	9.80272
STUB1P1	0	2.222345463	617.8552649	9.271125	ZNRF2P2	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC01345	0	2.222345463	617.8552649	9.271125	HAGLROS	6.638612267	0	547.0328046	9.095484	LINC00881	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC00376	6.638612267	0	547.0328046	9.095484	RN7SL443P	0	3.319306133	893.1261388	9.80272
OR7H1P	0	2.222345463	617.8552649	9.271125	WAPL-DT	6.638612267	0	547.0328046	9.095484	RN7SL180P	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	UBBP5	6.638612267	0	547.0328046	9.095484	RN7SL449P	0	3.319306133	893.1261388	9.80272
PSMD10P2	0	2.222345463	617.8552649	9.271125	MTND5P14	6.638612267	0	547.0328046	9.095484	RPL21P99	0	3.319306133	893.1261388	9.80272
PWWP2AP1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	RN7SL743P	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SPTLC1P1	6.638612267	0	547.0328046	9.095484	RPL21P53	0	3.319306133	893.1261388	9.80272
PRR20D	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	LINC01096	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	FAM27C	6.638612267	0	547.0328046	9.095484	MIR210HG	0	3.319306133	893.1261388	9.80272
SUB1P1	0	2.222345463	617.8552649	9.271125	RPS6KA2-IT	6.638612267	0	547.0328046	9.095484	SLIT3-AS1	0	3.319306133	893.1261388	9.80272
KRT16P2	0	2.222345463	617.8552649	9.271125	ING2-DT	6.638612267	0	547.0328046	9.095484	LINC00616	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	NACAP6	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	PGAM1P11	6.638612267	0	547.0328046	9.095484	C5orf34-AS1	0	3.319306133	893.1261388	9.80272
RANP5	0	2.222345463	617.8552649	9.271125	BACH1-IT3	6.638612267	0	547.0328046	9.095484	HIGD1AP14	0	3.319306133	893.1261388	9.80272
LINC02048	0	2.222345463	617.8552649	9.271125	MED14OS	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
NAB1P1	0	2.222345463	617.8552649	9.271125	SSR4P1	6.638612267	0	547.0328046	9.095484	PCDHA11	0	3.319306133	893.1261388	9.80272
RPL7L1P8	0	2.222345463	617.8552649	9.271125	SPAAR	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
AK3P5	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	HEATR5A-D	0	3.319306133	893.1261388	9.80272
LAMTOR3P1	0	2.222345463	617.8552649	9.271125	EIF2S2P3	6.638612267	0	547.0328046	9.095484	TUNAR	0	3.319306133	893.1261388	9.80272
ATP5MFP2	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC01205	0	2.222345463	617.8552649	9.271125	KCNMB2-A	6.638612267	0	547.0328046	9.095484	LRP2BP-AS1	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RPS20P22	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC02768	0	2.222345463	617.8552649	9.271125	RN7SL146P	6.638612267	0	547.0328046	9.095484	LINC02208	0	3.319306133	893.1261388	9.80272
PRDX3P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	SCARNA11	0	3.319306133	893.1261388	9.80272
LINC01501	0	2.222345463	617.8552649	9.271125	MYL6P4	6.638612267	0	547.0328046	9.095484	RNY4P37	0	3.319306133	893.1261388	9.80272
PIGCP2	0	2.222345463	617.8552649	9.271125	MAGEA5P	6.638612267	0	547.0328046	9.095484	RNU6-638P	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	RNU6-143P	0	3.319306133	893.1261388	9.80272
RPSAP22	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	CA3-AS1	0	3.319306133	893.1261388	9.80272
LCEP2	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RPS26P28	6.638612267	0	547.0328046	9.095484	PENK-AS1	0	3.319306133	893.1261388	9.80272
NFE4	0	2.222345463	617.8552649	9.271125	USP46-DT	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
NCAPD2P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MBD3L2	0	2.222345463	617.8552649	9.271125	LINC02112	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	KHDRBS2-C	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HOXC-AS3	6.638612267	0	547.0328046	9.095484	PIWIL4-AS1	0	3.319306133	893.1261388	9.80272
NFU1P1	0	2.222345463	617.8552649	9.271125	IGHGP	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SHC1P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MTND5P8	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	RBBP4P5	0	3.319306133	893.1261388	9.80272
CUBNP1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MSANTD2P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OR7E111P	0	2.222345463	617.8552649	9.271125	B3GAT1-DT	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
EIF1P3	0	2.222345463	617.8552649	9.271125	LINC02422	6.638612267	0	547.0328046	9.095484	LINC02401	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	PPP1R12A-A	6.638612267	0	547.0328046	9.095484	LINC00239	0	3.319306133	893.1261388	9.80272
STAT4-AS1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	LINC01500	0	3.319306133	893.1261388	9.80272
SEPHS1P7	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PNLIPP1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
SLC25A6P2	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENO1P2	0	3.319306133	893.1261388	9.80272
FTLP2	0	2.222345463	617.8552649	9.271125	TMEM263-D	6.638612267	0	547.0328046	9.095484	MIA2-AS1	0	3.319306133	893.1261388	9.80272
IL9RP2	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	GALNT16-AS	0	3.319306133	893.1261388	9.80272
GCSIR	0	2.222345463	617.8552649	9.271125	LINC01311	6.638612267	0	547.0328046	9.095484	NUP50P1	0	3.319306133	893.1261388	9.80272
ATG4AP1	0	2.222345463	617.8552649	9.271125	LINC01003	6.638612267	0	547.0328046	9.095484	MTND5P32	0	3.319306133	893.1261388	9.80272
RPL15P5	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HNRNPLP1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
DPH3P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	LINC02562	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MIR544B	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RHOT1P1	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OR7E46P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OR7E155P	0	2.222345463	617.8552649	9.271125	ERFL	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	LINC01654	0	3.319306133	893.1261388	9.80272
ZRANB2-AS	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	DKFZP434A(	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
CDK5P1	0	2.222345463	617.8552649	9.271125	RNVU1-31	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TUBBP6	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HIGD2AP2	0	2.222345463	617.8552649	9.271125	CDC37L1-D	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
EGOT	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	MIR4324	0	3.319306133	893.1261388	9.80272
GSTM5P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	POLR3KP2	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	MIR4774	0	3.319306133	893.1261388	9.80272
PPP1R11P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC00437	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	MIR4766	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	H2AC17	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	C18orf15	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
IFITM3P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	CIRBP-AS1	0	3.319306133	893.1261388	9.80272
EIF4A1P6	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PRPF31-AS1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MTND2P11	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	MAST3-AS1	0	3.319306133	893.1261388	9.80272
MCFD2P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	NXF2	0	3.319306133	893.1261388	9.80272
ZNF133-AS1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TUBB8P10	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	C16orf95-DT	0	3.319306133	893.1261388	9.80272
HLA-DQA2	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	TSNAX-DISC	0	3.319306133	893.1261388	9.80272
HNRNPA1P3	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	UNGP3	0	3.319306133	893.1261388	9.80272
TUBG1P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	IGHV3OR16-	0	3.319306133	893.1261388	9.80272
COX6CP10	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MRPL48P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	C1orf21-DT	0	3.319306133	893.1261388	9.80272

OR7E117P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	SNORD14A	0	3.319306133	893.1261388	9.80272
HNRNPA3P8	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SL34P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	BTF3-DT	0	3.319306133	893.1261388	9.80272
RPL21P55	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SL792P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ARGFXP1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PHB1P8	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL7AP58	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL36AP21	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SL23P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	RN7SL663P	0	3.319306133	893.1261388	9.80272
PTOV1P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TDGF1P6	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
CBX5P1	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CATSPER2P	6.638612267	0	547.0328046	9.095484	RN7SL192P	0	3.319306133	893.1261388	9.80272
PRR23E2P	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL21P98	0	2.222345463	617.8552649	9.271125	ENSG000002	6.638612267	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SL614P	0	2.222345463	617.8552649	9.271125	CD40LG	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	IMPG1	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL13AP22	0	2.222345463	617.8552649	9.271125	REG1A	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PRICKLE1P1	0	2.222345463	617.8552649	9.271125	APOA1	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
OR7E66P	0	2.222345463	617.8552649	9.271125	TEX11	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ADORA2A	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PPIEL	0	2.222345463	617.8552649	9.271125	RGN	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPSAP39	0	2.222345463	617.8552649	9.271125	REM2	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
B3GAT3P1	0	2.222345463	617.8552649	9.271125	TSLP	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RPL12P33	0	2.222345463	617.8552649	9.271125	PADI4	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PLUT	0	2.222345463	617.8552649	9.271125	LINC01600	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ARL13A	5.808785734	0	547.0328046	9.095484	PLAC4	0	3.319306133	893.1261388	9.80272
ARHGAP42-/	0	2.222345463	617.8552649	9.271125	GAPT	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PTPN11P5	0	2.222345463	617.8552649	9.271125	OR4F21	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
C5orf34-AS1	0	2.222345463	617.8552649	9.271125	TTTY14	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ZNF285BP	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HSPA8P4	0	2.222345463	617.8552649	9.271125	MKRN3	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HMGA1P2	0	2.222345463	617.8552649	9.271125	NEUROG1	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
EGFLAM-AS	0	2.222345463	617.8552649	9.271125	LINC00158	5.808785734	0	547.0328046	9.095484	KCNQ5-DT	0	3.319306133	893.1261388	9.80272
AMD1P3	0	2.222345463	617.8552649	9.271125	AADACL3	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
AGA-DT	0	2.222345463	617.8552649	9.271125	NBPF4	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RCC2P8	0	2.222345463	617.8552649	9.271125	ARL9	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
CRYZP2	0	2.222345463	617.8552649	9.271125	LINC00862	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
UNC93B4	0	2.222345463	617.8552649	9.271125	HLA-DMA	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MRS2P1	0	2.222345463	617.8552649	9.271125	FAM201A	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RNU6-1062P	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
DPP3P1	0	2.222345463	617.8552649	9.271125	SNORA20	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
IGBP1P5	0	2.222345463	617.8552649	9.271125	MIR604	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RNU6-679P	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
NIHCOLE	0	2.222345463	617.8552649	9.271125	RNA5SP474	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CLDN9	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TCP11X3P	0	2.222345463	617.8552649	9.271125	MSMP	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RNA5-8SP6	0	2.222345463	617.8552649	9.271125	HSPA8P15	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RNA5SP303	0	2.222345463	617.8552649	9.271125	BTBD10P2	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
RN7SKP288	0	2.222345463	617.8552649	9.271125	MIR1296	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
HNRNPA3P7	0	2.222345463	617.8552649	9.271125	RNU6ATAC	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
IGLV2-5	0	2.222345463	617.8552649	9.271125	RNU2-54P	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
IGLVI-70	0	2.222345463	617.8552649	9.271125	RPL17P9	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MIR503HG	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SNRPGP15	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
UBE2HP1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CETN4P	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
INTS9-AS1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RPL36AP54	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC01876	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
TUBB8P5	0	2.222345463	617.8552649	9.271125	GPR155-DT	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SLC8A1-AS	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
PLS1P1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ANKRD33BP	0	2.222345463	617.8552649	9.271125	LYPLAL1-D	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	COX6CP15	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	DAP3P2	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
MRGPRX10P	0	2.222345463	617.8552649	9.271125	VDAC1P8	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LINC02551	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
LGR4-AS1	0	2.222345463	617.8552649	9.271125	IMMTP1	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HSPE1P28	5.808785734	0	547.0328046	9.095484	ENSG000002	0	3.319306133	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	NMRK2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	DAZL	0	2.4894796	893.1261388	9.80272
LINC02763	0	2.222345463	617.8552649	9.271125	MORF4L2-A	5.808785734	0	547.0328046	9.095484	R3HDML	0	2.4894796	893.1261388	9.80272
ARL6IP1P3	0	2.222345463	617.8552649	9.271125	LINC01816	5.808785734	0	547.0328046	9.095484	PRSS54	0	2.4894796	893.1261388	9.80272
MORF4L1P3	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	GAPDHS	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	NHP2P1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	KIAA1614-A	5.808785734	0	547.0328046	9.095484	PHOX2B	0	2.4894796	893.1261388	9.80272
DDX18P5	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	UCP1	0	2.4894796	893.1261388	9.80272
MRPS36P4	0	2.222345463	617.8552649	9.271125	UFL1-AS1	5.808785734	0	547.0328046	9.095484	PTP4A1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	PABPC5-AS	5.808785734	0	547.0328046	9.095484	A1BG	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SNX18P7	5.808785734	0	547.0328046	9.095484	PRM2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SP2-AS1	5.808785734	0	547.0328046	9.095484	H2BW1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	API5P1	5.808785734	0	547.0328046	9.095484	ANKRD60	0	2.4894796	893.1261388	9.80272
UNC93B6	0	2.222345463	617.8552649	9.271125	HSPA8P3	5.808785734	0	547.0328046	9.095484	C20orf85	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RPL7L1P3	5.808785734	0	547.0328046	9.095484	MCHR1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	DBF4P1	5.808785734	0	547.0328046	9.095484	AANAT	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HIPK1-AS1	5.808785734	0	547.0328046	9.095484	CRP	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC01814	5.808785734	0	547.0328046	9.095484	SPACA3	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	SLC5A10	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	PSMA8	0	2.4894796	893.1261388	9.80272
OR8R1P	0	2.222345463	617.8552649	9.271125	BRWD1-AS1	5.808785734	0	547.0328046	9.095484	ALX3	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	NODAL	0	2.4894796	893.1261388	9.80272
TCP1P3	0	2.222345463	617.8552649	9.271125	OR8F1P	5.808785734	0	547.0328046	9.095484	LYZL4	0	2.4894796	893.1261388	9.80272
KNOP1P1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	SLC35G3	0	2.4894796	893.1261388	9.80272

ILF2P2	0	2.222345463	617.8552649	9.271125	MTFP1	5.808785734	0	547.0328046	9.095484	OTX2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	POU5F1P6	5.808785734	0	547.0328046	9.095484	CYP2C19	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CNTF	5.808785734	0	547.0328046	9.095484	MS4A6E	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	PLAAT5	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RN7SL623P	5.808785734	0	547.0328046	9.095484	KCNG4	0	2.4894796	893.1261388	9.80272
LINC03059	0	2.222345463	617.8552649	9.271125	ASAH1-AS1	5.808785734	0	547.0328046	9.095484	PROKR1	0	2.4894796	893.1261388	9.80272
DNAJC19P9	0	2.222345463	617.8552649	9.271125	BTG1-DT	5.808785734	0	547.0328046	9.095484	OR1L6	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	GNAO1-DT	5.808785734	0	547.0328046	9.095484	OR1L3	0	2.4894796	893.1261388	9.80272
CDRT15P13	0	2.222345463	617.8552649	9.271125	CSTF3-DT	5.808785734	0	547.0328046	9.095484	OR2AT4	0	2.4894796	893.1261388	9.80272
LINC01580	0	2.222345463	617.8552649	9.271125	RBM14-RBM	5.808785734	0	547.0328046	9.095484	TAS1R1	0	2.4894796	893.1261388	9.80272
KRT8P2	0	2.222345463	617.8552649	9.271125	TRPC6P2	5.808785734	0	547.0328046	9.095484	CENPS	0	2.4894796	893.1261388	9.80272
MC1R	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000001	0	2.4894796	893.1261388	9.80272
EEF1A1P33	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02914	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ALG3P1	5.808785734	0	547.0328046	9.095484	ARMC10P1	0	2.4894796	893.1261388	9.80272
EIF4EBP1P1	0	2.222345463	617.8552649	9.271125	RNU6-123P	5.808785734	0	547.0328046	9.095484	PXT1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RNU4ATAC	5.808785734	0	547.0328046	9.095484	ENSG000001	0	2.4894796	893.1261388	9.80272
MPPE1P1	0	2.222345463	617.8552649	9.271125	RNU6-759P	5.808785734	0	547.0328046	9.095484	DEFB123	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02363	0	2.4894796	893.1261388	9.80272
IGHV2OR16-	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	EDDM3A	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	PINX1	5.808785734	0	547.0328046	9.095484	TMEM252	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	TMEM89	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	IZUMO1R	0	2.4894796	893.1261388	9.80272
NSA2P4	0	2.222345463	617.8552649	9.271125	FXYD6-AS1	5.808785734	0	547.0328046	9.095484	OR51M1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	KRT79	0	2.4894796	893.1261388	9.80272
PKD1-AS1	0	2.222345463	617.8552649	9.271125	OR4A40P	5.808785734	0	547.0328046	9.095484	ENSG000001	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	KRT18P59	0	2.4894796	893.1261388	9.80272
HSPB9	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	KRTAP10-12	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	OR5AK1P	5.808785734	0	547.0328046	9.095484	OTUD6A	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	VN1R2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC02207	5.808785734	0	547.0328046	9.095484	LCE1C	0	2.4894796	893.1261388	9.80272
LINC01633	0	2.222345463	617.8552649	9.271125	DNAJC8P1	5.808785734	0	547.0328046	9.095484	IL27	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HMBOX1-IT	5.808785734	0	547.0328046	9.095484	IFNA1	0	2.4894796	893.1261388	9.80272
CYP4A43P	0	2.222345463	617.8552649	9.271125	HMGN1P1	5.808785734	0	547.0328046	9.095484	MYL4	0	2.4894796	893.1261388	9.80272
BCAP31P1	0	2.222345463	617.8552649	9.271125	CERNA1	5.808785734	0	547.0328046	9.095484	RTP2	0	2.4894796	893.1261388	9.80272
PPIAP50	0	2.222345463	617.8552649	9.271125	LINC02284	5.808785734	0	547.0328046	9.095484	MIR365A	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNVU1-22	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TXNP4	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR1D5	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNA5SP263	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-1209P	0	2.4894796	893.1261388	9.80272
GDF2	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNVU1-33	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	Y_RNA.30	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MTND4P34	5.808785734	0	547.0328046	9.095484	RNVU1-34	0	2.4894796	893.1261388	9.80272
MTND1P15	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	Y_RNA.39	0	2.4894796	893.1261388	9.80272
KIAA0895LP	0	2.222345463	617.8552649	9.271125	MIR4296	5.808785734	0	547.0328046	9.095484	RNU6-1305P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNA5SP84	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-828P	0	2.4894796	893.1261388	9.80272
ATP6V1E1P2	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-1327P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	Y_RNA.60	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	PTGES3L	5.808785734	0	547.0328046	9.095484	Y_RNA.65	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	TAP2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	TMEM51-AS	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	AADACL4	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ZNF497-AS1	5.808785734	0	547.0328046	9.095484	SMPD5	0	2.4894796	893.1261388	9.80272
HIKESHIP2	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ADARB2-AS	0	2.4894796	893.1261388	9.80272
NTF6B	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-1279P	0	2.4894796	893.1261388	9.80272
LINC01801	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	Y_RNA.69	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-1201P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-748P	0	2.4894796	893.1261388	9.80272
PNMA6B	0	2.222345463	617.8552649	9.271125	ILRUN-AS1	5.808785734	0	547.0328046	9.095484	SNORA46	0	2.4894796	893.1261388	9.80272
PLCE1-AS1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MIR550A2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC01023	5.808785734	0	547.0328046	9.095484	MIR554	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	H3-3A-DT	5.808785734	0	547.0328046	9.095484	MIR586	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TBC1D8-AS	5.808785734	0	547.0328046	9.095484	MIR601	0	2.4894796	893.1261388	9.80272
NGRNP3	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MIR618	0	2.4894796	893.1261388	9.80272
SRGNP1	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	IGHV7-81	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-298P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6-1242P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	SNORD113-2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SUNO1	5.808785734	0	547.0328046	9.095484	RNU6-808P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	HNRNPA1P4	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	PRDX2P4	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	PTMAP10	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RPS7P11	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SMG6-IT1	5.808785734	0	547.0328046	9.095484	CNN2P8	0	2.4894796	893.1261388	9.80272
INSIG1-DT	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RPSAP54	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	HBG1	0	2.4894796	893.1261388	9.80272
5_8S_rRNA	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TUBAP6	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02026	0	2.4894796	893.1261388	9.80272
MIR6750	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	CBX1P2	0	2.4894796	893.1261388	9.80272
RN7SL210P	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	NPM1P10	0	2.4894796	893.1261388	9.80272
IGLL4P	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LRRC37A11I	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	UCKL1-AS1	5.808785734	0	547.0328046	9.095484	MPRIPP1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MESTP4	0	2.4894796	893.1261388	9.80272
SPDYE20P	0	2.222345463	617.8552649	9.271125	LINC01144	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
Metazoa_SRP	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	FAM230B	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MFFP1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RFKP1	0	2.4894796	893.1261388	9.80272
MIR7845	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	H2BC16P	0	2.4894796	893.1261388	9.80272
MIR6856	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RCC2P7	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MIR1305	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNU6ATAC1	0	2.4894796	893.1261388	9.80272
RNA5-8SN2	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MIR1289-1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	MIR548F2	0	2.4894796	893.1261388	9.80272
DHRS11	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RN7SKP212	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RN7SKP97	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNA5SP344	0	2.4894796	893.1261388	9.80272
Metazoa_SRP	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNA5SP450	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RNA5SP221	0	2.4894796	893.1261388	9.80272

CDRT15P8	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	KIF28P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02471	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	C10orf67-AS1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	OLFM5P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RPL36P6	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	NPIPA3	0	2.4894796	893.1261388	9.80272
LINC02746	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC01167	0	2.4894796	893.1261388	9.80272
SPRR5	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02830	0	2.4894796	893.1261388	9.80272
FAM237B	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	TOMM22P5	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GNG14	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC02813	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	RPL36AP28	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	LINC01703	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	PAWRP1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ZNF286B	5.808785734	0	547.0328046	9.095484	FCF1P6	0	2.4894796	893.1261388	9.80272
ANAPC1P2	0	2.222345463	617.8552649	9.271125	ENSG000002	5.808785734	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	BMS1P1.1	5.808785734	0	547.0328046	9.095484	LAMP5-AS1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	IL3RA	5.808785734	0	547.0328046	9.095484	GAS1RR	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	DHRS9	4.9789592	0	547.0328046	9.095484	GRM7-AS3	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RASA4	4.9789592	0	547.0328046	9.095484	VN2R10P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	NOP2	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	IFI27L2	4.9789592	0	547.0328046	9.095484	ACTG1P12	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	OPRL1	4.9789592	0	547.0328046	9.095484	LINC01108	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	BHLHE23	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TNFSF9	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LIF	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CCL25	4.9789592	0	547.0328046	9.095484	RNF6P1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	IL36G	4.9789592	0	547.0328046	9.095484	ATP5MC1P5	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RHCG	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	COX6A2	4.9789592	0	547.0328046	9.095484	SELENOOLP	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	BSND	4.9789592	0	547.0328046	9.095484	LINC01736	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	GABRB1	4.9789592	0	547.0328046	9.095484	NACA4P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	NAT16	4.9789592	0	547.0328046	9.095484	NEGR1-IT1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HJV	4.9789592	0	547.0328046	9.095484	SEPTIN7P8	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	KRT6C	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HSD17B13	4.9789592	0	547.0328046	9.095484	CALM2P2	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CD8B	4.9789592	0	547.0328046	9.095484	RUNX3-AS1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SYT12	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HES3	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LPCAT4	4.9789592	0	547.0328046	9.095484	METTL21AP	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	C8G	4.9789592	0	547.0328046	9.095484	XIST	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TENM3-AS1	4.9789592	0	547.0328046	9.095484	PDE11A-AS1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	APOBEC3B	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	TP53TG1	4.9789592	0	547.0328046	9.095484	HSPD1P6	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LRRC19	4.9789592	0	547.0328046	9.095484	CT45A11P	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	NPY2R	4.9789592	0	547.0328046	9.095484	RPL4P5	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	FAM9C	4.9789592	0	547.0328046	9.095484	NFE4	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CIDEC	4.9789592	0	547.0328046	9.095484	PPIAP40	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	MAGEA1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RNU6-1099P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	RNU6-137P	4.9789592	0	547.0328046	9.095484	PPP4R2P3	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SNORA80A	4.9789592	0	547.0328046	9.095484	DNAJB6P3	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	IFIT1B	4.9789592	0	547.0328046	9.095484	NANOGP9	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	LINC01973	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PYY2	0	2.222345463	617.8552649	9.271125	MROH6	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ATP6V0E2-/	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	HCP5	4.9789592	0	547.0328046	9.095484	LINC01807	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	CD200R1L	4.9789592	0	547.0328046	9.095484	LINC01031	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SNORA3B	4.9789592	0	547.0328046	9.095484	LINC00384	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	KRTAP25-1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	2.222345463	617.8552649	9.271125	SUPT4H1	4.9789592	0	547.0328046	9.095484	CABP7-DT	0	2.4894796	893.1261388	9.80272
HOXC8	0	1.111172731	617.8552649	9.271125	HAUS7	4.9789592	0	547.0328046	9.095484	LINC00945	0	2.4894796	893.1261388	9.80272
GRIPAP1	0	1.111172731	617.8552649	9.271125	HNRNPA1P2	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
STON1-GTF2	0	1.111172731	617.8552649	9.271125	LINC01521	4.9789592	0	547.0328046	9.095484	DPYD-AS1	0	2.4894796	893.1261388	9.80272
PLA2G10	0	1.111172731	617.8552649	9.271125	RPL23AP3	4.9789592	0	547.0328046	9.095484	RPS15AP6	0	2.4894796	893.1261388	9.80272
PRLH	0	1.111172731	617.8552649	9.271125	MIR938	4.9789592	0	547.0328046	9.095484	PRDM10-DT	0	2.4894796	893.1261388	9.80272
AQP6	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	PHC2-AS1	0	2.4894796	893.1261388	9.80272
IGF2-AS	0	1.111172731	617.8552649	9.271125	MIR1205	4.9789592	0	547.0328046	9.095484	LINC02669	0	2.4894796	893.1261388	9.80272
TM9SF1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ACOD1	0	1.111172731	617.8552649	9.271125	RASAL2-AS	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DKK4	0	1.111172731	617.8552649	9.271125	LEMD1-DT	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HNRNPL	0	1.111172731	617.8552649	9.271125	LINC02840	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
CCL1	0	1.111172731	617.8552649	9.271125	DUXAP9	4.9789592	0	547.0328046	9.095484	LIX1L-AS1	0	2.4894796	893.1261388	9.80272
SNX15	0	1.111172731	617.8552649	9.271125	BOLA3-DT	4.9789592	0	547.0328046	9.095484	KCNH1-IT1	0	2.4894796	893.1261388	9.80272
NKX2-3	0	1.111172731	617.8552649	9.271125	AGBL4-IT1	4.9789592	0	547.0328046	9.095484	TJAP1P1	0	2.4894796	893.1261388	9.80272
KRT34	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT17P1	0	1.111172731	617.8552649	9.271125	KIRREL1-IT	4.9789592	0	547.0328046	9.095484	LINC00458	0	2.4894796	893.1261388	9.80272
NR0B2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
BCO1	0	1.111172731	617.8552649	9.271125	RPS15AP30	4.9789592	0	547.0328046	9.095484	RPSAP76	0	2.4894796	893.1261388	9.80272
FLOT1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	EIF4A1P7	0	2.4894796	893.1261388	9.80272
SAMD1	0	1.111172731	617.8552649	9.271125	ANKRD49P1	4.9789592	0	547.0328046	9.095484	TAB3-AS2	0	2.4894796	893.1261388	9.80272
ENSG000001	0	1.111172731	617.8552649	9.271125	LINC01690	4.9789592	0	547.0328046	9.095484	EIF1P2	0	2.4894796	893.1261388	9.80272
IL9	0	1.111172731	617.8552649	9.271125	HMGN1P37	4.9789592	0	547.0328046	9.095484	AK4P6	0	2.4894796	893.1261388	9.80272
RIPPLY1	0	1.111172731	617.8552649	9.271125	ANKRD26P4	4.9789592	0	547.0328046	9.095484	LINC02922	0	2.4894796	893.1261388	9.80272
TATDN1	0	1.111172731	617.8552649	9.271125	BCAN-AS2	4.9789592	0	547.0328046	9.095484	COP1-DT	0	2.4894796	893.1261388	9.80272
GSDMC	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	HMGN2P28	0	2.4894796	893.1261388	9.80272
NAA11	0	1.111172731	617.8552649	9.271125	LINC02580	4.9789592	0	547.0328046	9.095484	PPP1R11P1	0	2.4894796	893.1261388	9.80272
MGAT4B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	KRT18P5	0	2.4894796	893.1261388	9.80272
USP41	0	1.111172731	617.8552649	9.271125	DDX3P2	4.9789592	0	547.0328046	9.095484	BAALC-AS2	0	2.4894796	893.1261388	9.80272
ADCY10P1	0	1.111172731	617.8552649	9.271125	RPS3AP3	4.9789592	0	547.0328046	9.095484	GAPDHP21	0	2.4894796	893.1261388	9.80272
SPZ1	0	1.111172731	617.8552649	9.271125	RPS3P2	4.9789592	0	547.0328046	9.095484	TAAR9	0	2.4894796	893.1261388	9.80272
CYP2C19	0	1.111172731	617.8552649	9.271125	RNASEH1P2	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
CHRFAM7A	0	1.111172731	617.8552649	9.271125	FBXO36-IT1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MS4A6E	0	1.111172731	617.8552649	9.271125	SNORD62B	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR51Q1	0	1.111172731	617.8552649	9.271125	TSPAN19	4.9789592	0	547.0328046	9.095484	GFOD1-AS1	0	2.4894796	893.1261388	9.80272
SCGB1D1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	PIRAT1	0	2.4894796	893.1261388	9.80272
S100G	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272

OTUD7A	0	1.111172731	617.8552649	9.271125	HOTAIRM1	4.9789592	0	547.0328046	9.095484	RAD52P1	0	2.4894796	893.1261388	9.80272
C8orf74	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RFX5-AS1	0	2.4894796	893.1261388	9.80272
OR1N2	0	1.111172731	617.8552649	9.271125	CAVIN2-AS	4.9789592	0	547.0328046	9.095484	LINC02037	0	2.4894796	893.1261388	9.80272
NXNL1	0	1.111172731	617.8552649	9.271125	LINC01680	4.9789592	0	547.0328046	9.095484	ABCA17P	0	2.4894796	893.1261388	9.80272
SLC19A1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MAP3K20-AS	0	2.4894796	893.1261388	9.80272
PPIAP7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	Y_RNA.112	0	2.4894796	893.1261388	9.80272
COMMD5P1	0	1.111172731	617.8552649	9.271125	SRP14P3	4.9789592	0	547.0328046	9.095484	RNVU1-2	0	2.4894796	893.1261388	9.80272
OR2Y1	0	1.111172731	617.8552649	9.271125	KDM5C-IT1	4.9789592	0	547.0328046	9.095484	RN7SL752P	0	2.4894796	893.1261388	9.80272
LINC02873	0	1.111172731	617.8552649	9.271125	MCF2L-AS1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR11H4	0	1.111172731	617.8552649	9.271125	LURAP1L-A	4.9789592	0	547.0328046	9.095484	RN7SL388P	0	2.4894796	893.1261388	9.80272
OR4K3	0	1.111172731	617.8552649	9.271125	RPL36AP33	4.9789592	0	547.0328046	9.095484	RPS27P25	0	2.4894796	893.1261388	9.80272
PAK6-AS1	0	1.111172731	617.8552649	9.271125	ZNRF3-IT1	4.9789592	0	547.0328046	9.095484	RN7SL864P	0	2.4894796	893.1261388	9.80272
LINC00303	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RPL9P3	0	2.4894796	893.1261388	9.80272
MIR7-3HG	0	1.111172731	617.8552649	9.271125	GUSBP5	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT18P28	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR2T35	0	1.111172731	617.8552649	9.271125	CHFR-DT	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSAP3	0	1.111172731	617.8552649	9.271125	BCYRN1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
AMER3	0	1.111172731	617.8552649	9.271125	BRWD1-IT1	4.9789592	0	547.0328046	9.095484	AK2P2	0	2.4894796	893.1261388	9.80272
LINC02907	0	1.111172731	617.8552649	9.271125	HOXD-AS2	4.9789592	0	547.0328046	9.095484	INHCAP	0	2.4894796	893.1261388	9.80272
NECAP1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RN7SL741P	0	2.4894796	893.1261388	9.80272
OTOS	0	1.111172731	617.8552649	9.271125	ERRFI1-DT	4.9789592	0	547.0328046	9.095484	ZBTB20-AS4	0	2.4894796	893.1261388	9.80272
ARMC10P1	0	1.111172731	617.8552649	9.271125	ST3GAL6-A	4.9789592	0	547.0328046	9.095484	KRTAP10-11	0	2.4894796	893.1261388	9.80272
H3P47	0	1.111172731	617.8552649	9.271125	RN7SL328P	4.9789592	0	547.0328046	9.095484	LINC00880	0	2.4894796	893.1261388	9.80272
SLC24A3-AS	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LEFTY1	0	2.4894796	893.1261388	9.80272
ACER2P1	0	1.111172731	617.8552649	9.271125	ADAMTS9-/	4.9789592	0	547.0328046	9.095484	RN7SL65P	0	2.4894796	893.1261388	9.80272
PYY3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DAOA	0	1.111172731	617.8552649	9.271125	RN7SL127P	4.9789592	0	547.0328046	9.095484	RN7SL698P	0	2.4894796	893.1261388	9.80272
CSGALNACT	0	1.111172731	617.8552649	9.271125	UGT1A10	4.9789592	0	547.0328046	9.095484	OR9N1P	0	2.4894796	893.1261388	9.80272
KRTAP11-1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RPS2P45	0	2.4894796	893.1261388	9.80272
RXFP3	0	1.111172731	617.8552649	9.271125	BRPF3-AS1	4.9789592	0	547.0328046	9.095484	RN7SL380P	0	2.4894796	893.1261388	9.80272
COL18A1	0	1.111172731	617.8552649	9.271125	FLJ42969	4.9789592	0	547.0328046	9.095484	RPL30P11	0	2.4894796	893.1261388	9.80272
MAGEA2B	0	1.111172731	617.8552649	9.271125	HSPD1P5	4.9789592	0	547.0328046	9.095484	RPL23P10	0	2.4894796	893.1261388	9.80272
ANKRD45	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	NADK2-AS1	0	2.4894796	893.1261388	9.80272
NPB	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	FAM13B-AS	0	2.4894796	893.1261388	9.80272
DSCR4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC02458	0	2.4894796	893.1261388	9.80272
SPRR4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC02268	0	2.4894796	893.1261388	9.80272
BEX5	0	1.111172731	617.8552649	9.271125	LINC02377	4.9789592	0	547.0328046	9.095484	PES1P1	0	2.4894796	893.1261388	9.80272
PTGER4P2	0	1.111172731	617.8552649	9.271125	RASA2-IT1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR4C10P	0	1.111172731	617.8552649	9.271125	EDIL3-DT	4.9789592	0	547.0328046	9.095484	BCL2L12P1	0	2.4894796	893.1261388	9.80272
UNC93B5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MTCO1P30	0	2.4894796	893.1261388	9.80272
CYCSP45	0	1.111172731	617.8552649	9.271125	MAD2L1-DT	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ZNF733P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MOSMO	0	1.111172731	617.8552649	9.271125	LINC02728	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
CROCCP5	0	1.111172731	617.8552649	9.271125	RNU6-518P	4.9789592	0	547.0328046	9.095484	PPIC-AS1	0	2.4894796	893.1261388	9.80272
SPDYE17	0	1.111172731	617.8552649	9.271125	RNU6-1045P	4.9789592	0	547.0328046	9.095484	MAPK10-AS	0	2.4894796	893.1261388	9.80272
KRT18P59	0	1.111172731	617.8552649	9.271125	RN7SKP253	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DIPK1C	0	1.111172731	617.8552649	9.271125	RNU6-126P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000001	0	1.111172731	617.8552649	9.271125	HMGB1P41	4.9789592	0	547.0328046	9.095484	MRPS31P4	0	2.4894796	893.1261388	9.80272
HNRNPA1P6	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRTAP10-6	0	1.111172731	617.8552649	9.271125	LINC01151	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DEFB108F	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS2P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SPINK14	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GUCA2A	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC00477	0	1.111172731	617.8552649	9.271125	TIRAP-AS1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000001	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	SCARNA21B	0	2.4894796	893.1261388	9.80272
PRB3	0	1.111172731	617.8552649	9.271125	TAS2R30	4.9789592	0	547.0328046	9.095484	RNA5SP497	0	2.4894796	893.1261388	9.80272
CYYR1-AS1	0	1.111172731	617.8552649	9.271125	LINC02378	4.9789592	0	547.0328046	9.095484	RNA5SP466	0	2.4894796	893.1261388	9.80272
LINC02692	0	1.111172731	617.8552649	9.271125	LINC01397	4.9789592	0	547.0328046	9.095484	RNU6ATAC2	0	2.4894796	893.1261388	9.80272
PABPC1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	Y_RNA.124	0	2.4894796	893.1261388	9.80272
RD3	0	1.111172731	617.8552649	9.271125	LINC02820	4.9789592	0	547.0328046	9.095484	RNU7-151P	0	2.4894796	893.1261388	9.80272
MIR374A	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RNU4-60P	0	2.4894796	893.1261388	9.80272
RNU1-76P	0	1.111172731	617.8552649	9.271125	MIR3171HG	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNVU1-22	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORD1B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
Y_RNA.23	0	1.111172731	617.8552649	9.271125	CTXN2-AS1	4.9789592	0	547.0328046	9.095484	TPTE2P1	0	2.4894796	893.1261388	9.80272
RNVU1-33	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORD115-4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
Y_RNA.31	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORA58B	0	1.111172731	617.8552649	9.271125	STAM-DT	4.9789592	0	547.0328046	9.095484	CLDN23	0	2.4894796	893.1261388	9.80272
SNORA63D	0	1.111172731	617.8552649	9.271125	ITPRID2-DT	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORD115-2	0	1.111172731	617.8552649	9.271125	OR4C45	4.9789592	0	547.0328046	9.095484	TENM2-AS1	0	2.4894796	893.1261388	9.80272
RNU4-38P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNA5SP141	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNU4-42P	0	1.111172731	617.8552649	9.271125	DNAJA2-DT	4.9789592	0	547.0328046	9.095484	MIR151A	0	2.4894796	893.1261388	9.80272
Y_RNA.46	0	1.111172731	617.8552649	9.271125	OTULIN-DT	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNU6-818P	0	1.111172731	617.8552649	9.271125	PAN3-AS1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RN7SKP9	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RN7SKP80	0	1.111172731	617.8552649	9.271125	NDUFB10P2	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
STK19	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
VWA7	0	1.111172731	617.8552649	9.271125	MSANTD3P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
AADACL4	0	1.111172731	617.8552649	9.271125	RN7SL381P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SMPD5	0	1.111172731	617.8552649	9.271125	SDHCP1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR4D8P	0	1.111172731	617.8552649	9.271125	PPIAP54	4.9789592	0	547.0328046	9.095484	RBMXP3	0	2.4894796	893.1261388	9.80272
LINC02138	0	1.111172731	617.8552649	9.271125	MIR5687	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR3132	4.9789592	0	547.0328046	9.095484	SMIM35	0	2.4894796	893.1261388	9.80272
LINC01121	0	1.111172731	617.8552649	9.271125	ARIH2P1	4.9789592	0	547.0328046	9.095484	CYCSP25	0	2.4894796	893.1261388	9.80272
COX17P1	0	1.111172731	617.8552649	9.271125	MIR3619	4.9789592	0	547.0328046	9.095484	OR56A7P	0	2.4894796	893.1261388	9.80272
GOLGA2P1	0	1.111172731	617.8552649	9.271125	FMNL1-DT	4.9789592	0	547.0328046	9.095484	LINC02684	0	2.4894796	893.1261388	9.80272
LINC00661	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC02389	0	2.4894796	893.1261388	9.80272
KRTAP10-2	0	1.111172731	617.8552649	9.271125	ERVE-1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC00487	0	1.111172731	617.8552649	9.271125	LINC02073	4.9789592	0	547.0328046	9.095484	ATF4P4	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	NIFKP3	0	2.4894796	893.1261388	9.80272
RPL23AP57	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
C4orf46P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
Y_RNA.68	0	1.111172731	617.8552649	9.271125	ZNF460-AS1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNVU1-18	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	TCP1P3	0	2.4894796	893.1261388	9.80272
SNORA9B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RARS1P1	0	2.4894796	893.1261388	9.80272
RNU6-1201P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC02293	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORA70.2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272

Y_RNA.84	0	1.111172731	617.8552649	9.271125	CKS1BP3	4.9789592	0	547.0328046	9.095484	LRIG3-DT	0	2.4894796	893.1261388	9.80272
SNORA37	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC02356	0	2.4894796	893.1261388	9.80272
MIR181A2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC01404	0	2.4894796	893.1261388	9.80272
MIR99A	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	POLR2KP1	0	2.4894796	893.1261388	9.80272
MIR624	0	1.111172731	617.8552649	9.271125	GOLGA4-AS	4.9789592	0	547.0328046	9.095484	LINC00640	0	2.4894796	893.1261388	9.80272
SNORA35	0	1.111172731	617.8552649	9.271125	FOXP1-DT	4.9789592	0	547.0328046	9.095484	RNASE11-AS	0	2.4894796	893.1261388	9.80272
TRGV5	0	1.111172731	617.8552649	9.271125	IRF2-DT	4.9789592	0	547.0328046	9.095484	DNAJC19P9	0	2.4894796	893.1261388	9.80272
IGHD3-16	0	1.111172731	617.8552649	9.271125	ARFGEF1-D	4.9789592	0	547.0328046	9.095484	KIF26A-DT	0	2.4894796	893.1261388	9.80272
MIR764	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORD19	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	COX5AP2	0	2.4894796	893.1261388	9.80272
RNA5SP465	0	1.111172731	617.8552649	9.271125	SUV39H2-D	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HNRNPA1P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MTCYBP23	0	2.4894796	893.1261388	9.80272
PABPN1P1	0	1.111172731	617.8552649	9.271125	FAM27E3	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR5S1P	0	1.111172731	617.8552649	9.271125	MIR6081	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NPM1P46	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TUBB8P8	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SAR1AP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL32P17	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NCLP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DNLZ	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NOC2LP1	0	1.111172731	617.8552649	9.271125	FUT8-AS1	4.9789592	0	547.0328046	9.095484	LCMT1-AS1	0	2.4894796	893.1261388	9.80272
RPL7AP34	0	1.111172731	617.8552649	9.271125	LINC02809	4.9789592	0	547.0328046	9.095484	KCNJ18	0	2.4894796	893.1261388	9.80272
ANXA2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	FTLP14	0	2.4894796	893.1261388	9.80272
VTI1BP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PPIAP82	0	1.111172731	617.8552649	9.271125	RN7SL856P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL32P22	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MTHFD2P5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL35P4	0	1.111172731	617.8552649	9.271125	LUNAR1	4.9789592	0	547.0328046	9.095484	MPHOSPH6-I	0	2.4894796	893.1261388	9.80272
RPL7AP38	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	TNRC6B-DT	0	2.4894796	893.1261388	9.80272
NPM1P33	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT18P29	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	AGK-DT	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT18P38	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS11P7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MTND5P33	0	2.4894796	893.1261388	9.80272
ARF4P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ACTN4P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MTCO1P40	0	2.4894796	893.1261388	9.80272
TPM3P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	OR52L2P	0	2.4894796	893.1261388	9.80272
PRR23E	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MIR378G	0	2.4894796	893.1261388	9.80272
VPS33B-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS15AP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GAPDHP15	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	MIR378D2H(	0	2.4894796	893.1261388	9.80272
KRT8P26	0	1.111172731	617.8552649	9.271125	GSEC	4.9789592	0	547.0328046	9.095484	RN7SL204P	0	2.4894796	893.1261388	9.80272
MRPS5P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ERVFRD-3	0	2.4894796	893.1261388	9.80272
HNRNPA1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ARL8BP2	0	1.111172731	617.8552649	9.271125	NBPF13P	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TMEM14DP	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	RN7SL605P	0	2.4894796	893.1261388	9.80272
RPS15AP3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	LINC01387	0	2.4894796	893.1261388	9.80272
CCNB2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT18P11	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
IFITM8P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
IGLV8OR8-1	0	1.111172731	617.8552649	9.271125	LINC00842	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GPX1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RCN1P1	0	1.111172731	617.8552649	9.271125	5S_rRNA.1	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ARL2BPP3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KANK1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RAET1M	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
IFI30	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	UXT-AS1	0	2.4894796	893.1261388	9.80272
UQCRFS1P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NHIP	4.9789592	0	547.0328046	9.095484	LINC01842	0	2.4894796	893.1261388	9.80272
SLC25A5P7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS27AP11	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NDUFS5P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HNRNPA1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	SEC24AP1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	PTPRS-AS1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ASXL3-DT	0	2.4894796	893.1261388	9.80272
CATSPERZ	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GSTA8P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORD111	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ZNF114-AS1	0	2.4894796	893.1261388	9.80272
MIR1302-5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	SIGLEC20P	0	2.4894796	893.1261388	9.80272
MIR1271	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNA5SP156	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNORA79B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ARHGAP19-S	0	2.4894796	893.1261388	9.80272
RNU2-48P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	SPACA6-AS1	0	2.4894796	893.1261388	9.80272
RNU6-172P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ZNF559-ZNF	0	2.4894796	893.1261388	9.80272
GAPDHP69	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC01825	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	NAV2-AS6	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	CD2AP-DT	0	2.4894796	893.1261388	9.80272
SMPD4P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC03076	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC02247	0	1.111172731	617.8552649	9.271125	GTF2IP1	4.9789592	0	547.0328046	9.095484	ITGB8-AS1	0	2.4894796	893.1261388	9.80272
HSP90AB5P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
EEF1A1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC01342	0	1.111172731	617.8552649	9.271125	ENSG000002	4.9789592	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TNMD	4.149132667	0	547.0328046	9.095484	SMIM32	0	2.4894796	893.1261388	9.80272
HMGB1P9	0	1.111172731	617.8552649	9.271125	ASNS	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DNAAF6	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MRRFP1	0	1.111172731	617.8552649	9.271125	F9	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSAP1	0	1.111172731	617.8552649	9.271125	GML	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL38P6	0	1.111172731	617.8552649	9.271125	HSD17B1P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ANKRD30BP	0	1.111172731	617.8552649	9.271125	IFNG	4.149132667	0	547.0328046	9.095484	RN7SL760P	0	2.4894796	893.1261388	9.80272
LINC00703	0	1.111172731	617.8552649	9.271125	HAND1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PDE8B	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPSAP10	0	1.111172731	617.8552649	9.271125	TRIM51	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272

LINC01708	0	1.111172731	617.8552649	9.271125	GLIS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT8P45	0	1.111172731	617.8552649	9.271125	VPREB3	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC01117	0	1.111172731	617.8552649	9.271125	HOXD9	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS26P5	0	1.111172731	617.8552649	9.271125	MYOD1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DUSP26	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
E2F3-IT1	0	1.111172731	617.8552649	9.271125	CGA	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NPIPA3	0	1.111172731	617.8552649	9.271125	PTH2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DPT	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GUSBP10	0	1.111172731	617.8552649	9.271125	RABGEF1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HLCS-AS1	0	1.111172731	617.8552649	9.271125	KCNS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
USP21P1	0	1.111172731	617.8552649	9.271125	IRX6	4.149132667	0	547.0328046	9.095484	LINC02804	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	UBXN10	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT8P30	0	1.111172731	617.8552649	9.271125	C1orf74	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KCNC4-DT	0	1.111172731	617.8552649	9.271125	RAET1E	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TBC1D3P6	0	1.111172731	617.8552649	9.271125	CXorf58	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SOST	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL29P12	0	1.111172731	617.8552649	9.271125	HOXD12	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TWF1P2	0	1.111172731	617.8552649	9.271125	PATE1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL23AP36	0	1.111172731	617.8552649	9.271125	SHANK2-AS	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PVALEF	0	1.111172731	617.8552649	9.271125	OR8I2	4.149132667	0	547.0328046	9.095484	GPR179	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	APOBEC4	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C11orf16	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC02470	0	1.111172731	617.8552649	9.271125	TRIM60	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SLC25A5P8	0	1.111172731	617.8552649	9.271125	FLJ40194	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MIPEPP1	0	1.111172731	617.8552649	9.271125	C12orf40	4.149132667	0	547.0328046	9.095484	5_8S_rRNA.2	0	2.4894796	893.1261388	9.80272
SFTA1P	0	1.111172731	617.8552649	9.271125	ZNF716	4.149132667	0	547.0328046	9.095484	Metazoa_SRP	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MCEMP1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ELF2P4	0	1.111172731	617.8552649	9.271125	POU3F2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TMEM212	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC00331	0	1.111172731	617.8552649	9.271125	TMEM215	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NCCRP1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL35AP7	0	1.111172731	617.8552649	9.271125	OR56A5	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC01710	0	1.111172731	617.8552649	9.271125	POTEA	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL35P5	0	1.111172731	617.8552649	9.271125	SPANXN3	4.149132667	0	547.0328046	9.095484	OR2AG1	0	2.4894796	893.1261388	9.80272
DRAXINP1	0	1.111172731	617.8552649	9.271125	MEIG1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NCBP2-AS1	0	1.111172731	617.8552649	9.271125	CLEC4C	4.149132667	0	547.0328046	9.095484	LINC02906	0	2.4894796	893.1261388	9.80272
PGAM1P2	0	1.111172731	617.8552649	9.271125	Y_RNA.3	4.149132667	0	547.0328046	9.095484	FLJ38576	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNA5SP195	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORD104	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORA73	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
CROCCP1	0	1.111172731	617.8552649	9.271125	RNU6-433P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DDX39AP1	0	1.111172731	617.8552649	9.271125	RNU6-1284P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PCNPP2	0	1.111172731	617.8552649	9.271125	Y_RNA.27	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNA5SP242	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL26P36	0	1.111172731	617.8552649	9.271125	SNORA65	4.149132667	0	547.0328046	9.095484	LINC02204	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORA14A	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	Y_RNA.51	4.149132667	0	547.0328046	9.095484	LINC01002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU6-8	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
YBX1P8	0	1.111172731	617.8552649	9.271125	RN7SKP269	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC00951	0	1.111172731	617.8552649	9.271125	TIMM23B	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL6P4	0	1.111172731	617.8552649	9.271125	MAMDC2-A	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
LINC02097	0	1.111172731	617.8552649	9.271125	CRTC1P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
DDC-AS1	0	1.111172731	617.8552649	9.271125	OR6C1	4.149132667	0	547.0328046	9.095484	SMIM44	0	2.4894796	893.1261388	9.80272
LINC01733	0	1.111172731	617.8552649	9.271125	MAPK6P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORA2A	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GAS1RR	0	1.111172731	617.8552649	9.271125	RNU1-109P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU6-611P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PIMREGP1	0	1.111172731	617.8552649	9.271125	MT-TV	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HMGN2P7	0	1.111172731	617.8552649	9.271125	MIR454	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
USP17L7	0	1.111172731	617.8552649	9.271125	IGHM	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PPIAP62	0	1.111172731	617.8552649	9.271125	RNU6-1177P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GAPDHP73	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MYL6P1	0	1.111172731	617.8552649	9.271125	KRTAP12-4	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL7P22	0	1.111172731	617.8552649	9.271125	POLD2P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MTCL1P1	0	1.111172731	617.8552649	9.271125	TM6SF2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PDPR2P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CYB5AP2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ACTG1P12	0	1.111172731	617.8552649	9.271125	GOT2P6	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
BUD13-DT	0	1.111172731	617.8552649	9.271125	LRRC37A14	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
NXNP1	0	1.111172731	617.8552649	9.271125	MARK2P18	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR320B2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU4ATAC	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ALG1L5P	0	1.111172731	617.8552649	9.271125	RNU6ATAC	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RNF207-AS1	0	1.111172731	617.8552649	9.271125	HDAC4-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPS4XP2	0	1.111172731	617.8552649	9.271125	C10orf55	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ABHD17AP6	0	1.111172731	617.8552649	9.271125	RNU2-50P	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
FKBP14-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TNS1-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL21P20	0	1.111172731	617.8552649	9.271125	MIR181A2H	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MTND4P30	0	1.111172731	617.8552649	9.271125	RPSAP18	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TMLHE-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MYO1B-AS1	0	1.111172731	617.8552649	9.271125	PDK1-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MIR4290HG	0	1.111172731	617.8552649	9.271125	LINC01594	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
TOMM22P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SNRPEP3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02608	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNX30-DT	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
GUSBP8	0	1.111172731	617.8552649	9.271125	LINC02679	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PPIAP93	0	1.111172731	617.8552649	9.271125	SUGT1P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
KRT8P44	0	1.111172731	617.8552649	9.271125	ATF6-DT	4.149132667	0	547.0328046	9.095484	DHX9-AS1	0	2.4894796	893.1261388	9.80272
LINC01696	0	1.111172731	617.8552649	9.271125	ISCA2P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NCKAP5-AS	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RAB11AP1	0	1.111172731	617.8552649	9.271125	NAA20P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
WBP11P3	0	1.111172731	617.8552649	9.271125	DOCK8-AS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
AKIRIN1P2	0	1.111172731	617.8552649	9.271125	DLG1-AS1	4.149132667	0	547.0328046	9.095484	PANO1	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL35AP2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MTND6P5	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272

ENSG000002	0	1.111172731	617.8552649	9.271125	INKA2-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MACROD2-	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR7E23P	0	1.111172731	617.8552649	9.271125	IDH3B-DT	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PRKCE-AS1	0	1.111172731	617.8552649	9.271125	PGK1P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EFCAB14P1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RANBP1P1	0	1.111172731	617.8552649	9.271125	ITPKB-IT1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
POLR2CP1	0	1.111172731	617.8552649	9.271125	HDAC2-AS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HNF4GP1	0	1.111172731	617.8552649	9.271125	HOTAIR	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
FAM207BP	0	1.111172731	617.8552649	9.271125	LINC00954	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	THRB-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL6P3	0	1.111172731	617.8552649	9.271125	ZBTB46-AS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
OR5AW1P	0	1.111172731	617.8552649	9.271125	RHEBP1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
HSPA8P8	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
AGBL5-IT1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ANKRD66	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MRPS16P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	FAM95A	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CDC42-IT1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
PPIAP25	0	1.111172731	617.8552649	9.271125	LINC03016	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01614	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
SREK1IP1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
WDR4P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ROBO2P1	0	1.111172731	617.8552649	9.271125	GORAB-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02595	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
RPL21P44	0	1.111172731	617.8552649	9.271125	PIK3CD-AS2	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ACVR2B-AS	0	1.111172731	617.8552649	9.271125	MMADHC-I	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HSPE1P25	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
MIR194-2HG	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	2.4894796	893.1261388	9.80272
ATP8A2P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NBPF25P	0	2.4894796	893.1261388	9.80272
ARSD-AS1	0	1.111172731	617.8552649	9.271125	LINC01063	4.149132667	0	547.0328046	9.095484	EMBP1	0	2.4894796	893.1261388	9.80272
TAX1BP1-AS	0	1.111172731	617.8552649	9.271125	OR5K1	4.149132667	0	547.0328046	9.095484	IGF2-AS	0	1.659653067	893.1261388	9.80272
RPS3AP7	0	1.111172731	617.8552649	9.271125	RPS26P42	4.149132667	0	547.0328046	9.095484	CST9L	0	1.659653067	893.1261388	9.80272
SGSM3-AS1	0	1.111172731	617.8552649	9.271125	VDAC1P13	4.149132667	0	547.0328046	9.095484	H2BW2	0	1.659653067	893.1261388	9.80272
HSPD1P6	0	1.111172731	617.8552649	9.271125	IDI2-AS1	4.149132667	0	547.0328046	9.095484	RNASEH2A	0	1.659653067	893.1261388	9.80272
STK24P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CLC	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ERVH48-1	4.149132667	0	547.0328046	9.095484	PPY	0	1.659653067	893.1261388	9.80272
HNRNPA1P2	0	1.111172731	617.8552649	9.271125	LINC01762	4.149132667	0	547.0328046	9.095484	KCNIP3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TNP1	0	1.659653067	893.1261388	9.80272
ATP6V0CP1	0	1.111172731	617.8552649	9.271125	PRR23C	4.149132667	0	547.0328046	9.095484	ZC2HC1B	0	1.659653067	893.1261388	9.80272
HNRNPH3P1	0	1.111172731	617.8552649	9.271125	LINC01694	4.149132667	0	547.0328046	9.095484	GLRXP3	0	1.659653067	893.1261388	9.80272
LINC02603	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NKX2-3	0	1.659653067	893.1261388	9.80272
XRCC6P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	HCRTR1	0	1.659653067	893.1261388	9.80272
EXOSC10-AS	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	IL17C	0	1.659653067	893.1261388	9.80272
OR51A10P	0	1.111172731	617.8552649	9.271125	USP27X-DT	4.149132667	0	547.0328046	9.095484	BANF2	0	1.659653067	893.1261388	9.80272
CEACAMP9	0	1.111172731	617.8552649	9.271125	SOD1-DT	4.149132667	0	547.0328046	9.095484	NRL	0	1.659653067	893.1261388	9.80272
SNX3P1X	0	1.111172731	617.8552649	9.271125	C2CD4D-AS	4.149132667	0	547.0328046	9.095484	G6PC1	0	1.659653067	893.1261388	9.80272
GTF2IRD1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	APCS	0	1.659653067	893.1261388	9.80272
TEX48	0	1.111172731	617.8552649	9.271125	LINC02925	4.149132667	0	547.0328046	9.095484	MIP	0	1.659653067	893.1261388	9.80272
MRPL35P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CYP1A2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MSH2-OT1	4.149132667	0	547.0328046	9.095484	ACP4	0	1.659653067	893.1261388	9.80272
GGTLC4P	0	1.111172731	617.8552649	9.271125	SSBL5P	4.149132667	0	547.0328046	9.095484	FAM86B2	0	1.659653067	893.1261388	9.80272
RPS2P16	0	1.111172731	617.8552649	9.271125	KDM4A-AS	4.149132667	0	547.0328046	9.095484	IL9	0	1.659653067	893.1261388	9.80272
LINC00309	0	1.111172731	617.8552649	9.271125	POU5F1P5	4.149132667	0	547.0328046	9.095484	NAA11	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SIX3-AS1	4.149132667	0	547.0328046	9.095484	OR7G1	0	1.659653067	893.1261388	9.80272
PRELID3BP1	0	1.111172731	617.8552649	9.271125	FRGCA	4.149132667	0	547.0328046	9.095484	KRT82	0	1.659653067	893.1261388	9.80272
PTP4A1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TMEM82	0	1.659653067	893.1261388	9.80272
COX11P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LHX8	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00987	4.149132667	0	547.0328046	9.095484	FABP1	0	1.659653067	893.1261388	9.80272
RPL34P6	0	1.111172731	617.8552649	9.271125	OR4A47	4.149132667	0	547.0328046	9.095484	SSX5	0	1.659653067	893.1261388	9.80272
RPL31P34	0	1.111172731	617.8552649	9.271125	PKN2-AS1	4.149132667	0	547.0328046	9.095484	PRAP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNF216-IT1	4.149132667	0	547.0328046	9.095484	ANKRD2	0	1.659653067	893.1261388	9.80272
FILNC1	0	1.111172731	617.8552649	9.271125	EEF1A1P30	4.149132667	0	547.0328046	9.095484	TRIM53BP	0	1.659653067	893.1261388	9.80272
RPL34P20	0	1.111172731	617.8552649	9.271125	RN7SL333P	4.149132667	0	547.0328046	9.095484	TAC3	0	1.659653067	893.1261388	9.80272
RPL3P5	0	1.111172731	617.8552649	9.271125	RPL37P2	4.149132667	0	547.0328046	9.095484	EPB42	0	1.659653067	893.1261388	9.80272
NEK2P2	0	1.111172731	617.8552649	9.271125	DENND6A-/	4.149132667	0	547.0328046	9.095484	TCP10L2	0	1.659653067	893.1261388	9.80272
PIK3CDP1	0	1.111172731	617.8552649	9.271125	RN7SL751P	4.149132667	0	547.0328046	9.095484	C3P1	0	1.659653067	893.1261388	9.80272
PPP2R2DP1	0	1.111172731	617.8552649	9.271125	LINC00877	4.149132667	0	547.0328046	9.095484	VCX3A	0	1.659653067	893.1261388	9.80272
CYCSP43	0	1.111172731	617.8552649	9.271125	RN7SL767P	4.149132667	0	547.0328046	9.095484	IL13	0	1.659653067	893.1261388	9.80272
TMSB15B-AS	0	1.111172731	617.8552649	9.271125	TMEFF1	4.149132667	0	547.0328046	9.095484	C7orf33	0	1.659653067	893.1261388	9.80272
DOC2GP	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR1M1	0	1.659653067	893.1261388	9.80272
ITCH-IT1	0	1.111172731	617.8552649	9.271125	ICE2P2	4.149132667	0	547.0328046	9.095484	OR1N1	0	1.659653067	893.1261388	9.80272
DNAJB6P3	0	1.111172731	617.8552649	9.271125	RPS12P7	4.149132667	0	547.0328046	9.095484	OR10AD1	0	1.659653067	893.1261388	9.80272
RPL21P85	0	1.111172731	617.8552649	9.271125	RPL5P33	4.149132667	0	547.0328046	9.095484	OR10W1	0	1.659653067	893.1261388	9.80272
PGM5P4-AS1	0	1.111172731	617.8552649	9.271125	LINC00926	4.149132667	0	547.0328046	9.095484	PRPF8	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02150	4.149132667	0	547.0328046	9.095484	TSGA10IP	0	1.659653067	893.1261388	9.80272
FMO11P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	PRIMA1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BACH1-IT1	4.149132667	0	547.0328046	9.095484	ENSG000001	0	1.659653067	893.1261388	9.80272
LINC02043	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CLDN22	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EFL1P2	4.149132667	0	547.0328046	9.095484	OTOS	0	1.659653067	893.1261388	9.80272
FAM215B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LMO7DN	0	1.659653067	893.1261388	9.80272
LINC02518	0	1.111172731	617.8552649	9.271125	PPIAP77	4.149132667	0	547.0328046	9.095484	H1-8	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000001	0	1.659653067	893.1261388	9.80272
TMPRSS11C	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC00652	0	1.659653067	893.1261388	9.80272
BMPR1AP2	0	1.111172731	617.8552649	9.271125	DMXL1-DT	4.149132667	0	547.0328046	9.095484	SPDYE7P	0	1.659653067	893.1261388	9.80272
CSPG4BP	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CLRN3	0	1.659653067	893.1261388	9.80272
PRCPP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SLX1B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR4C6	0	1.659653067	893.1261388	9.80272
PHB1P10	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CRYGB	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	USP38-DT	4.149132667	0	547.0328046	9.095484	FAM87A	0	1.659653067	893.1261388	9.80272
ZNF687-AS1	0	1.111172731	617.8552649	9.271125	MARCHF11	4.149132667	0	547.0328046	9.095484	KCNK4	0	1.659653067	893.1261388	9.80272
ATP5MC1P7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TSPEAR-AS2	0	1.659653067	893.1261388	9.80272
DNAJC19P8	0	1.111172731	617.8552649	9.271125	TACR3-AS1	4.149132667	0	547.0328046	9.095484	MAGEA2B	0	1.659653067	893.1261388	9.80272
LINC01717	0	1.111172731	617.8552649	9.271125	LINC02754	4.149132667	0	547.0328046	9.095484	TFDP3	0	1.659653067	893.1261388	9.80272
KATNBL1P2	0	1.111172731	617.8552649	9.271125	RNU6-998P	4.149132667	0	547.0328046	9.095484	PRR32	0	1.659653067	893.1261388	9.80272
RGS5-AS1	0	1.111172731	617.8552649	9.271125	SCARNA23	4.149132667	0	547.0328046	9.095484	ODF4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CLDN6	0	1.659653067	893.1261388	9.80272
HNRNPA1P4	0	1.111172731	617.8552649	9.271125	RNA5SP281	4.149132667	0	547.0328046	9.095484	SRY	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNA5SP168	4.149132667	0	547.0328046	9.095484	AQP12A	0	1.659653067	893.1261388	9.80272
AMMECR1L	0	1.111172731	617.8552649	9.271125	RNU6-107P	4.149132667	0	547.0328046	9.095484	NT5C1B	0	1.659653067	893.1261388	9.80272

PDXP-DT	0	1.111172731	617.8552649	9.271125	LINC01605	4.149132667	0	547.0328046	9.095484	MOSMO	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00293	4.149132667	0	547.0328046	9.095484	SLC51B	0	1.659653067	893.1261388	9.80272
PPIAP65	0	1.111172731	617.8552649	9.271125	SMIM18	4.149132667	0	547.0328046	9.095484	LINC02610	0	1.659653067	893.1261388	9.80272
RPL35AP31	0	1.111172731	617.8552649	9.271125	OSGEPL1-A	4.149132667	0	547.0328046	9.095484	ENSG000001	0	1.659653067	893.1261388	9.80272
ZNF197-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SPATA12	0	1.659653067	893.1261388	9.80272
LINC01638	0	1.111172731	617.8552649	9.271125	RNU6-323P	4.149132667	0	547.0328046	9.095484	SPDYE17	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ACTL7A	0	1.659653067	893.1261388	9.80272
EIF3KP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TMEM262	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LCE3B	0	1.659653067	893.1261388	9.80272
CEACAMP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR2B7P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR7D1P	0	1.659653067	893.1261388	9.80272
AMZ2P3	0	1.111172731	617.8552649	9.271125	NOX5	4.149132667	0	547.0328046	9.095484	OR6C6	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PRSS23-AS1	4.149132667	0	547.0328046	9.095484	ENSG000001	0	1.659653067	893.1261388	9.80272
LINC01681	0	1.111172731	617.8552649	9.271125	NDFIP1P1	4.149132667	0	547.0328046	9.095484	TEKT4P2	0	1.659653067	893.1261388	9.80272
SRP14P2	0	1.111172731	617.8552649	9.271125	TSPAN9-IT1	4.149132667	0	547.0328046	9.095484	LINC01164	0	1.659653067	893.1261388	9.80272
LINC02535	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR6K2	0	1.659653067	893.1261388	9.80272
CT66	0	1.111172731	617.8552649	9.271125	LINC02552	4.149132667	0	547.0328046	9.095484	CCDC196	0	1.659653067	893.1261388	9.80272
RPL36P20	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	POU3F4	0	1.659653067	893.1261388	9.80272
LINC01641	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CHRNG	0	1.659653067	893.1261388	9.80272
OSTCP5	0	1.111172731	617.8552649	9.271125	LINC02417	4.149132667	0	547.0328046	9.095484	UBE2Q2P12	0	1.659653067	893.1261388	9.80272
RPS26P47	0	1.111172731	617.8552649	9.271125	LBX2-AS1	4.149132667	0	547.0328046	9.095484	MDS2	0	1.659653067	893.1261388	9.80272
RPL7AP42	0	1.111172731	617.8552649	9.271125	CD63-AS1	4.149132667	0	547.0328046	9.095484	RNA5SP46	0	1.659653067	893.1261388	9.80272
CCDC188	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD9	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PCNPP1	4.149132667	0	547.0328046	9.095484	RNA5SP295	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-862P	0	1.659653067	893.1261388	9.80272
TLR12P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.10	0	1.659653067	893.1261388	9.80272
LINC02020	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	U3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	FDPSP3	4.149132667	0	547.0328046	9.095484	RN7SKP149	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.21	0	1.659653067	893.1261388	9.80272
EPCAM-DT	0	1.111172731	617.8552649	9.271125	BHLHB9P1	4.149132667	0	547.0328046	9.095484	RNU6-697P	0	1.659653067	893.1261388	9.80272
PRUNEP1	0	1.111172731	617.8552649	9.271125	SIPA1L1-AS	4.149132667	0	547.0328046	9.095484	RNA5SP352	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNA5SP393	0	1.659653067	893.1261388	9.80272
LINC02674	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.23	0	1.659653067	893.1261388	9.80272
LINC00700	0	1.111172731	617.8552649	9.271125	SH3RF3-AS1	4.149132667	0	547.0328046	9.095484	RNA5SP322	0	1.659653067	893.1261388	9.80272
LINC01777	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SUMO1P3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNA5SP429	0	1.659653067	893.1261388	9.80272
RPL26P37	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-640P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNA5SP335	0	1.659653067	893.1261388	9.80272
FAM83C-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SRSF3P5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD14E	0	1.659653067	893.1261388	9.80272
HEBP2P1	0	1.111172731	617.8552649	9.271125	MANEA-DT	4.149132667	0	547.0328046	9.095484	RNU1-146P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CORO1A-AS	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ST13P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNA5SP232	0	1.659653067	893.1261388	9.80272
LINC00484	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORA58B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GOLGA8H	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LDHAP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNVU1-3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORA63D	0	1.659653067	893.1261388	9.80272
CYCSP52	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RN7SKP227	0	1.659653067	893.1261388	9.80272
TBCAP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORA16B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RN7SKP78	0	1.659653067	893.1261388	9.80272
GSN-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD114-3	0	1.659653067	893.1261388	9.80272
FAR1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU1-43P	0	1.659653067	893.1261388	9.80272
RPS29P15	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-302P	0	1.659653067	893.1261388	9.80272
NEXN-AS1	0	1.111172731	617.8552649	9.271125	DPH1-AS1	4.149132667	0	547.0328046	9.095484	SNORD113-1	0	1.659653067	893.1261388	9.80272
COX7CP1	0	1.111172731	617.8552649	9.271125	RSL1D1-DT	4.149132667	0	547.0328046	9.095484	Y_RNA.57	0	1.659653067	893.1261388	9.80272
GRAMD4P2	0	1.111172731	617.8552649	9.271125	MIR5011	4.149132667	0	547.0328046	9.095484	RNU1-55P	0	1.659653067	893.1261388	9.80272
LINC01920	0	1.111172731	617.8552649	9.271125	NFE2L1-DT	4.149132667	0	547.0328046	9.095484	Y_RNA.62	0	1.659653067	893.1261388	9.80272
RPL6P1	0	1.111172731	617.8552649	9.271125	MIR5581	4.149132667	0	547.0328046	9.095484	RNA5SP248	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR3115	4.149132667	0	547.0328046	9.095484	RHOT1P2	0	1.659653067	893.1261388	9.80272
TMEM258P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC01285	0	1.659653067	893.1261388	9.80272
NDUFB9P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TEDDM1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	FAM24A	0	1.659653067	893.1261388	9.80272
CCDC200	0	1.111172731	617.8552649	9.271125	RANBP3-DT	4.149132667	0	547.0328046	9.095484	MYCLP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC02731	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KRTAP21-4P	0	1.111172731	617.8552649	9.271125	ENSG000001	4.149132667	0	547.0328046	9.095484	PSORS1C2	0	1.659653067	893.1261388	9.80272
CTSLP1	0	1.111172731	617.8552649	9.271125	PIN1-DT	4.149132667	0	547.0328046	9.095484	MUC21	0	1.659653067	893.1261388	9.80272
MTND2P40	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	C5orf60	0	1.659653067	893.1261388	9.80272
KRT18P5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	FOXD4L5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CD177P1	0	1.659653067	893.1261388	9.80272
RPL21P137	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC01121	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SCGB1B2P	4.149132667	0	547.0328046	9.095484	REXO1L1P	0	1.659653067	893.1261388	9.80272
RPL24P6	0	1.111172731	617.8552649	9.271125	LIM2-AS1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TMSB4XP1	0	1.111172731	617.8552649	9.271125	SF1-DT	4.149132667	0	547.0328046	9.095484	HBZP1	0	1.659653067	893.1261388	9.80272
LINC01852	0	1.111172731	617.8552649	9.271125	LINC01224	4.149132667	0	547.0328046	9.095484	RNVU1-7	0	1.659653067	893.1261388	9.80272
OR52N3P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD116-1	0	1.659653067	893.1261388	9.80272
MRPS6P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-418P	0	1.659653067	893.1261388	9.80272
HUNK-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.77	0	1.659653067	893.1261388	9.80272
SETP4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-767P	0	1.659653067	893.1261388	9.80272
LINC01519	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-761P	0	1.659653067	893.1261388	9.80272
LINC01343	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EIF4BP9	0	1.111172731	617.8552649	9.271125	YTHDF3-DT	4.149132667	0	547.0328046	9.095484	SNORA9B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-708P	0	1.659653067	893.1261388	9.80272
LINC01502	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-1226P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SCML2P2	4.149132667	0	547.0328046	9.095484	Y_RNA.83	0	1.659653067	893.1261388	9.80272
OR7E24	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORA2B	0	1.659653067	893.1261388	9.80272
TUBAP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-658P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.91	0	1.659653067	893.1261388	9.80272
OR4C50P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.96	0	1.659653067	893.1261388	9.80272
OR9A1P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.98	0	1.659653067	893.1261388	9.80272
UQCRHP2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR602	0	1.659653067	893.1261388	9.80272
KIFC1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR573	0	1.659653067	893.1261388	9.80272
TNIP2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR590	0	1.659653067	893.1261388	9.80272
RPS15AP38	0	1.111172731	617.8552649	9.271125	KRTAP10-7	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TRIM51EP	0	1.111172731	617.8552649	9.271125	MIOS-DT	4.149132667	0	547.0328046	9.095484	MIR626	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR221	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FBP2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR561	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR624	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR3065	0	1.659653067	893.1261388	9.80272
RPL10P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	IGLV4-3	0	1.659653067	893.1261388	9.80272

ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-1246P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	WDR5-DT	4.149132667	0	547.0328046	9.095484	RNU11-3P	0	1.659653067	893.1261388	9.80272
ZDHHC4P1	0	1.111172731	617.8552649	9.271125	SFTPD-AS1	4.149132667	0	547.0328046	9.095484	RNA5SP465	0	1.659653067	893.1261388	9.80272
RALBP1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HSPE1P21	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL7AP37	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TUBB8P8	0	1.659653067	893.1261388	9.80272
IFITM3P5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL17P41	0	1.659653067	893.1261388	9.80272
HADHBP1	0	1.111172731	617.8552649	9.271125	RN7SL166P	4.149132667	0	547.0328046	9.095484	NOC2LP1	0	1.659653067	893.1261388	9.80272
LRIG2-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ST13P10	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02778	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC00671	0	1.659653067	893.1261388	9.80272
LINC00707	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL32P15	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	PPIAP42	0	1.659653067	893.1261388	9.80272
LINC02031	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RAB5CP1	0	1.659653067	893.1261388	9.80272
RNU7-185P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ACTBP15	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PCDHA13	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RN7SL569P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC00887	0	1.659653067	893.1261388	9.80272
RN7SL843P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CTAGE14P	0	1.659653067	893.1261388	9.80272
RN7SL12P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TUBBP2	0	1.659653067	893.1261388	9.80272
GUSBP4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NPS	0	1.659653067	893.1261388	9.80272
RN7SL674P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ATP5MC1P6	0	1.659653067	893.1261388	9.80272
RPS10P16	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SMARCE1P6	0	1.659653067	893.1261388	9.80272
LINC01471	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	C12orf71	0	1.659653067	893.1261388	9.80272
RN7SL303P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NPM1P31	0	1.659653067	893.1261388	9.80272
RPL23AP75	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SMTNL1	0	1.659653067	893.1261388	9.80272
ETF1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EEF1GP4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TBC1D26	0	1.659653067	893.1261388	9.80272
SOCAR	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LCE1F	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	AKAP17BP	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	KRT18P11	0	1.659653067	893.1261388	9.80272
RPL35AP14	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC00269	0	1.659653067	893.1261388	9.80272
RPL29P2	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ATXN7L3P1	0	1.659653067	893.1261388	9.80272
UOX	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL27AP	0	1.659653067	893.1261388	9.80272
RPL3P9	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR7E37P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MARCKSL1I	0	1.659653067	893.1261388	9.80272
RN7SL288P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR944	0	1.659653067	893.1261388	9.80272
RPS10P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	IFI30	0	1.659653067	893.1261388	9.80272
UBA52P8	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NDUFAB1P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	KRT19P1	0	1.659653067	893.1261388	9.80272
RPL35AP11	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPS27AP11	0	1.659653067	893.1261388	9.80272
LINC02032	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL7P28	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC01997	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPS3AP2	0	1.659653067	893.1261388	9.80272
RN7SL441P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SPTLC1P3	0	1.659653067	893.1261388	9.80272
RN7SL618P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UBA52P7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01163	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RPL19P11	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RN7SL265P	0	1.111172731	617.8552649	9.271125	BISPR	4.149132667	0	547.0328046	9.095484	U3.4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RPL29P23	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD88A	0	1.659653067	893.1261388	9.80272
ARPC1AP1	0	1.111172731	617.8552649	9.271125	MIR4434	4.149132667	0	547.0328046	9.095484	MIR1284	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR1301	0	1.659653067	893.1261388	9.80272
SDHBP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORD99	0	1.659653067	893.1261388	9.80272
RN7SL789P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MIR1252	0	1.659653067	893.1261388	9.80272
HYDINP1	0	1.111172731	617.8552649	9.271125	DINOL	4.149132667	0	547.0328046	9.095484	MRPS21P3	0	1.659653067	893.1261388	9.80272
MBL1P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR6X1	0	1.659653067	893.1261388	9.80272
RN7SL317P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SNORA73.1	0	1.659653067	893.1261388	9.80272
RN7SL40P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RN7SKP139	0	1.659653067	893.1261388	9.80272
RPL5P12	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-1140P	0	1.659653067	893.1261388	9.80272
CD200R1L-A	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU2-63P	0	1.659653067	893.1261388	9.80272
ALDOAP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	Y_RNA.109	0	1.659653067	893.1261388	9.80272
RN7SL180P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNA5SP104	0	1.659653067	893.1261388	9.80272
RPL5P11	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU6-172P	0	1.659653067	893.1261388	9.80272
RN7SL449P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RN7SKP296	0	1.659653067	893.1261388	9.80272
PTMAP8	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RNU2-22P	0	1.659653067	893.1261388	9.80272
OR7E29P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ZNF385D-AS	0	1.659653067	893.1261388	9.80272
RN7SL172P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	EHHADH-AS	0	1.659653067	893.1261388	9.80272
RPL17P22	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC01825	0	1.659653067	893.1261388	9.80272
RPL15P17	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL17P13	0	1.659653067	893.1261388	9.80272
OR2A7	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	PYDC2-AS1	0	1.659653067	893.1261388	9.80272
TIPARP-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UBE2H-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL32P35	0	1.659653067	893.1261388	9.80272
RN7SL833P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC01449	0	1.659653067	893.1261388	9.80272
PPIAP15	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL32P6	0	1.659653067	893.1261388	9.80272
TMEM225B	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CENPVL3	0	1.659653067	893.1261388	9.80272
LINC01995	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SDHDP6	0	1.659653067	893.1261388	9.80272
FAM3D-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ZCRB1P1	0	1.659653067	893.1261388	9.80272
RN7SL125P	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MRRFP1	0	1.659653067	893.1261388	9.80272
SNRPCP3	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	MTCO1P39	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC00900	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CASC8	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	SLC25A34-A	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TANK-AS1	0	1.659653067	893.1261388	9.80272
LINC01498	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC00365	0	1.659653067	893.1261388	9.80272
CPEB2-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	KRT8P45	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCTD9P5	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02513	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	UBE2V1P13	0	1.659653067	893.1261388	9.80272
KRT8P4	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	OR9R1P	0	1.659653067	893.1261388	9.80272
DDX43P1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC00504	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	NQO2-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	LINC02262	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPS12P10	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	DUTP6	0	1.659653067	893.1261388	9.80272
STIMATE-MI	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

PMPCAP1	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	TMEM246-A	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	CYP4A22-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	4.149132667	0	547.0328046	9.095484	RPL35P5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RAET1K	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HMGN2P4	0	1.111172731	617.8552649	9.271125	GUSBP1	4.149132667	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BTN2A3P.1	4.149132667	0	547.0328046	9.095484	SAR1AP3	0	1.659653067	893.1261388	9.80272
GPM6A-DT	0	1.111172731	617.8552649	9.271125	SLAMF7	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLED1	0	1.111172731	617.8552649	9.271125	AFM	3.319306133	0	547.0328046	9.095484	LINC02816	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BIRC7	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LNCPRESS2	0	1.111172731	617.8552649	9.271125	HAO1	3.319306133	0	547.0328046	9.095484	PAICSP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OVOL3	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RACK1P3	0	1.111172731	617.8552649	9.271125	KLF1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PON3	3.319306133	0	547.0328046	9.095484	ZNF32-AS1	0	1.659653067	893.1261388	9.80272
GAPDHP70	0	1.111172731	617.8552649	9.271125	ANKRD7	3.319306133	0	547.0328046	9.095484	RPL12P10	0	1.659653067	893.1261388	9.80272
EVA1CP1	0	1.111172731	617.8552649	9.271125	CYP2C18	3.319306133	0	547.0328046	9.095484	RAD23BP3	0	1.659653067	893.1261388	9.80272
LINC02503	0	1.111172731	617.8552649	9.271125	DPPA5P4	3.319306133	0	547.0328046	9.095484	LINC00351	0	1.659653067	893.1261388	9.80272
LINC02242	0	1.111172731	617.8552649	9.271125	C10orf95	3.319306133	0	547.0328046	9.095484	ST7-AS2	0	1.659653067	893.1261388	9.80272
AFF4P1	0	1.111172731	617.8552649	9.271125	IL13RA2	3.319306133	0	547.0328046	9.095484	RPL15P13	0	1.659653067	893.1261388	9.80272
GAPDHP76	0	1.111172731	617.8552649	9.271125	SCP2D1	3.319306133	0	547.0328046	9.095484	PPIAP62	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HRH4	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ACRV1	3.319306133	0	547.0328046	9.095484	LHFPL3-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HRK	3.319306133	0	547.0328046	9.095484	TRPC6P10	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RDH5	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MORF4L2P1	0	1.111172731	617.8552649	9.271125	NR5A1	3.319306133	0	547.0328046	9.095484	BSN-DT	0	1.659653067	893.1261388	9.80272
MYLK-AS2	0	1.111172731	617.8552649	9.271125	ENSG000001	3.319306133	0	547.0328046	9.095484	RNF207-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SPIN2A	3.319306133	0	547.0328046	9.095484	HMGN1P24	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	STAR	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CIR1P2	0	1.111172731	617.8552649	9.271125	CABP1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	FGF19	3.319306133	0	547.0328046	9.095484	LINC01153	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CLEC4D	3.319306133	0	547.0328046	9.095484	IL21-AS1	0	1.659653067	893.1261388	9.80272
LINC01618	0	1.111172731	617.8552649	9.271125	GALR1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TUBB8P3	0	1.111172731	617.8552649	9.271125	TMIGD2	3.319306133	0	547.0328046	9.095484	GXYLT1P7	0	1.659653067	893.1261388	9.80272
RPL13AP26	0	1.111172731	617.8552649	9.271125	KCNV2	3.319306133	0	547.0328046	9.095484	LINC02832	0	1.659653067	893.1261388	9.80272
KRT18P21	0	1.111172731	617.8552649	9.271125	PPDPFL	3.319306133	0	547.0328046	9.095484	ZMYM4-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	AHSP	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TRAPPC3L	3.319306133	0	547.0328046	9.095484	LINC01537	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DMBT1L1	3.319306133	0	547.0328046	9.095484	RPL39P16	0	1.659653067	893.1261388	9.80272
PPM1AP1	0	1.111172731	617.8552649	9.271125	ENSG000001	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PPIAP76	0	1.111172731	617.8552649	9.271125	SPINK6	3.319306133	0	547.0328046	9.095484	LINC01074	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00324	3.319306133	0	547.0328046	9.095484	LINC01714	0	1.659653067	893.1261388	9.80272
ABT1P1	0	1.111172731	617.8552649	9.271125	GPBAR1	3.319306133	0	547.0328046	9.095484	ISCA1P6	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C3orf80	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KNOP1P5	0	1.111172731	617.8552649	9.271125	LSMEM1	3.319306133	0	547.0328046	9.095484	HNRNPA3P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	KCTD9P2	3.319306133	0	547.0328046	9.095484	MRLN	0	1.659653067	893.1261388	9.80272
LINC00491	0	1.111172731	617.8552649	9.271125	OR52A1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02436	0	1.111172731	617.8552649	9.271125	CCDC172	3.319306133	0	547.0328046	9.095484	RBM15-AS1	0	1.659653067	893.1261388	9.80272
OR7E111FP	0	1.111172731	617.8552649	9.271125	FAM133CP	3.319306133	0	547.0328046	9.095484	PIN4P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GJD3	3.319306133	0	547.0328046	9.095484	PABPC4-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR6C70	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NSA2P6	0	1.111172731	617.8552649	9.271125	NUPR2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HMMR-AS1	0	1.111172731	617.8552649	9.271125	SPACDR	3.319306133	0	547.0328046	9.095484	MYADM-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TNFRSF4	3.319306133	0	547.0328046	9.095484	OR7E23P	0	1.659653067	893.1261388	9.80272
OR7E21P	0	1.111172731	617.8552649	9.271125	HSPE1P11	3.319306133	0	547.0328046	9.095484	RPL15P18	0	1.659653067	893.1261388	9.80272
TMEM92-AS	0	1.111172731	617.8552649	9.271125	VWC2	3.319306133	0	547.0328046	9.095484	ITPKB-AS1	0	1.659653067	893.1261388	9.80272
LINC01217	0	1.111172731	617.8552649	9.271125	CALHM6	3.319306133	0	547.0328046	9.095484	ROCR	0	1.659653067	893.1261388	9.80272
ERVH-1	0	1.111172731	617.8552649	9.271125	KIAA0408	3.319306133	0	547.0328046	9.095484	NAB1P1	0	1.659653067	893.1261388	9.80272
LINC01386	0	1.111172731	617.8552649	9.271125	LINC00173	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MTCYBP35	0	1.111172731	617.8552649	9.271125	FLVCR1-DT	3.319306133	0	547.0328046	9.095484	HMGB3P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SSBP3-AS1	3.319306133	0	547.0328046	9.095484	LAMTOR3P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR324	3.319306133	0	547.0328046	9.095484	UGT1A12P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU1-108P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
C1GALT1P2	0	1.111172731	617.8552649	9.271125	ENSG000001	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CBR4-DT	0	1.111172731	617.8552649	9.271125	RNU6-251P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	Y_RNA.28	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02435	0	1.111172731	617.8552649	9.271125	RNU6-681P	3.319306133	0	547.0328046	9.095484	PSMA6P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	Y_RNA.33	3.319306133	0	547.0328046	9.095484	HSPA8P8	0	1.659653067	893.1261388	9.80272
LINC01267	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	SMPD4P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SKP71	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LDHAP1	0	1.111172731	617.8552649	9.271125	RNY4P7	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	Y_RNA.45	3.319306133	0	547.0328046	9.095484	MT1P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01981	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORA72	3.319306133	0	547.0328046	9.095484	LPGAT1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNA5SP428	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02507	0	1.111172731	617.8552649	9.271125	VTRNA1-2	3.319306133	0	547.0328046	9.095484	NME2P3	0	1.659653067	893.1261388	9.80272
RNU7-84P	0	1.111172731	617.8552649	9.271125	LINC02487	3.319306133	0	547.0328046	9.095484	LINC00452	0	1.659653067	893.1261388	9.80272
SCARNA11	0	1.111172731	617.8552649	9.271125	LIME1	3.319306133	0	547.0328046	9.095484	RPL17P1	0	1.659653067	893.1261388	9.80272
RN7SKP164	0	1.111172731	617.8552649	9.271125	PRAMEF19	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RN7SKP276	0	1.111172731	617.8552649	9.271125	LINC01123	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RNU2-58P	0	1.111172731	617.8552649	9.271125	RPL26L1-AS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RNU6-158P	0	1.111172731	617.8552649	9.271125	PCDHA1	3.319306133	0	547.0328046	9.095484	LINC01718	0	1.659653067	893.1261388	9.80272
RNU6-789P	0	1.111172731	617.8552649	9.271125	C11orf91	3.319306133	0	547.0328046	9.095484	LINC02851	0	1.659653067	893.1261388	9.80272
RNU6-231P	0	1.111172731	617.8552649	9.271125	LINC00898	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RN7SKP35	0	1.111172731	617.8552649	9.271125	SMIM45	3.319306133	0	547.0328046	9.095484	ITGB1-DT	0	1.659653067	893.1261388	9.80272
IGKV1D-32	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORA72.1	3.319306133	0	547.0328046	9.095484	CRPPA-AS1	0	1.659653067	893.1261388	9.80272
GUSBP16	0	1.111172731	617.8552649	9.271125	SNORD38D	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU6-925P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC03044	0	1.111172731	617.8552649	9.271125	SNORA66	3.319306133	0	547.0328046	9.095484	TAX1BP1-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR559	3.319306133	0	547.0328046	9.095484	RPS3AP7	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR603	3.319306133	0	547.0328046	9.095484	LINC01435	0	1.659653067	893.1261388	9.80272
HSPA8P13	0	1.111172731	617.8552649	9.271125	SNORD12C	3.319306133	0	547.0328046	9.095484	BIRC6-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TRAV21	3.319306133	0	547.0328046	9.095484	TCERG1L-AS	0	1.659653067	893.1261388	9.80272
XRCC6P4	0	1.111172731	617.8552649	9.271125	TRAJ58	3.319306133	0	547.0328046	9.095484	H3P1	0	1.659653067	893.1261388	9.80272
HPYR1	0	1.111172731	617.8552649	9.271125	TRAJ6	3.319306133	0	547.0328046	9.095484	PHB1P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IGHV3-11	3.319306133	0	547.0328046	9.095484	LINC02926	0	1.659653067	893.1261388	9.80272
GRPEL2-AS1	0	1.111172731	617.8552649	9.271125	MIR550A3	3.319306133	0	547.0328046	9.095484	ELOVL2-AS1	0	1.659653067	893.1261388	9.80272
LINC03047	0	1.111172731	617.8552649	9.271125	TAS2R50	3.319306133	0	547.0328046	9.095484	EXOSC10-AS	0	1.659653067	893.1261388	9.80272
LINC02845	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	OR3D1P	0	1.659653067	893.1261388	9.80272
IGHEP1	0	1.111172731	617.8552649	9.271125	SNORD70	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SUMO2P20	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

IGLVI-63	0	1.111172731	617.8552649	9.271125	TCL1B	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ZNF317P1	0	1.111172731	617.8552649	9.271125	H3P4	3.319306133	0	547.0328046	9.095484	LINC00332	0	1.659653067	893.1261388	9.80272
MTND1P5	0	1.111172731	617.8552649	9.271125	HNRNPCP6	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL7AP39	3.319306133	0	547.0328046	9.095484	VN1R108P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GPSM3	3.319306133	0	547.0328046	9.095484	TSEN15P1	0	1.659653067	893.1261388	9.80272
IGLC4	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	SHC1P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	AGGF1P1	3.319306133	0	547.0328046	9.095484	RPS18P12	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HMGB3P13	3.319306133	0	547.0328046	9.095484	HMGN1P5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HNRNPA3P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FAM90A12P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TOMM40P2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IMPDH1P6	0	1.111172731	617.8552649	9.271125	LARP1P1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR2052HG	0	1.111172731	617.8552649	9.271125	LDHAL6FP	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ARL2BPP5	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ECE1-AS1	0	1.659653067	893.1261388	9.80272
LINC02696	0	1.111172731	617.8552649	9.271125	RPL21P19	3.319306133	0	547.0328046	9.095484	SPATA20P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HTR5A-AS1	3.319306133	0	547.0328046	9.095484	HAR1B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BOLA2P3	3.319306133	0	547.0328046	9.095484	TRBV26OR9	0	1.659653067	893.1261388	9.80272
ANKRD33BP	0	1.111172731	617.8552649	9.271125	MIR548L	3.319306133	0	547.0328046	9.095484	LINC01593	0	1.659653067	893.1261388	9.80272
TMED10P1	0	1.111172731	617.8552649	9.271125	MIR548T	3.319306133	0	547.0328046	9.095484	ARPP19P1	0	1.659653067	893.1261388	9.80272
NAV2-AS4	0	1.111172731	617.8552649	9.271125	MIR1183	3.319306133	0	547.0328046	9.095484	CFAP97D1	0	1.659653067	893.1261388	9.80272
INS	0	1.111172731	617.8552649	9.271125	RN7SKP154	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MTCYBP41	0	1.111172731	617.8552649	9.271125	FTH1P10	3.319306133	0	547.0328046	9.095484	FAM225A	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01249	0	1.659653067	893.1261388	9.80272
MRGPRX11P	0	1.111172731	617.8552649	9.271125	LINC01832	3.319306133	0	547.0328046	9.095484	RFESDP1	0	1.659653067	893.1261388	9.80272
OR5AP1P	0	1.111172731	617.8552649	9.271125	PORCN-DT	3.319306133	0	547.0328046	9.095484	CD109-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GTF2IP5	3.319306133	0	547.0328046	9.095484	NANOGP10	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CHL1-AS2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MRGPRX12P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	HMGB3P14	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MTCO3P19	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TUBB4BP4	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	IDH1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EIF4A2P4	3.319306133	0	547.0328046	9.095484	TEX50	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TUBB4BP2	3.319306133	0	547.0328046	9.095484	LINC02805	0	1.659653067	893.1261388	9.80272
LINC02748	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	DAOA-AS1	0	1.659653067	893.1261388	9.80272
LINC02726	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR7E2P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	KNOP1P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PPIAP21	3.319306133	0	547.0328046	9.095484	MTND5P3	0	1.659653067	893.1261388	9.80272
OR7E4P	0	1.111172731	617.8552649	9.271125	OR52I2	3.319306133	0	547.0328046	9.095484	LINC02777	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01780	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01748	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	UPK1A-AS1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IMPDH1P7	3.319306133	0	547.0328046	9.095484	LINC01700	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	KATNBL1P2	0	1.659653067	893.1261388	9.80272
LINC02733	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PLCE1-AS2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GOLGA7B-I	3.319306133	0	547.0328046	9.095484	MTND6P24	0	1.659653067	893.1261388	9.80272
RPL12P46	0	1.111172731	617.8552649	9.271125	HPN-AS1	3.319306133	0	547.0328046	9.095484	VPS13A-AS1	0	1.659653067	893.1261388	9.80272
PIWIL4-AS1	0	1.111172731	617.8552649	9.271125	CHUK-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC00642	0	1.659653067	893.1261388	9.80272
NDUFA5P6	0	1.111172731	617.8552649	9.271125	HNRNPA1P	3.319306133	0	547.0328046	9.095484	RPS6P12	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ST13P19	3.319306133	0	547.0328046	9.095484	LINC00028	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	TARDBPP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01209	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FOLR1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	AGGF1P2	0	1.659653067	893.1261388	9.80272
LINC02369	0	1.111172731	617.8552649	9.271125	GRK5-IT1	3.319306133	0	547.0328046	9.095484	PPP6R2P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNRPGP9	3.319306133	0	547.0328046	9.095484	DNM3-IT1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01884	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HNRNPA1P6	3.319306133	0	547.0328046	9.095484	GOT2P3	0	1.659653067	893.1261388	9.80272
CCND2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PSMC1P8	0	1.111172731	617.8552649	9.271125	FABP5P4	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ADGRA1-AS	0	1.111172731	617.8552649	9.271125	TMEM44-AS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LIMS3	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	NUDT9P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01315	3.319306133	0	547.0328046	9.095484	KRT19P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ELOBP1	0	1.659653067	893.1261388	9.80272
MED15P6	0	1.111172731	617.8552649	9.271125	TMEM254-A	3.319306133	0	547.0328046	9.095484	H3P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01878	0	1.659653067	893.1261388	9.80272
KRT73-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
G2E3-AS1	0	1.111172731	617.8552649	9.271125	RPL10P3	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPS3AP13	3.319306133	0	547.0328046	9.095484	LINC02020	0	1.659653067	893.1261388	9.80272
MRS2P2	0	1.111172731	617.8552649	9.271125	NEK2-DT	3.319306133	0	547.0328046	9.095484	ACTL11P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SPRY4-AS1	3.319306133	0	547.0328046	9.095484	CDC20-DT	0	1.659653067	893.1261388	9.80272
EEF1A1P17	0	1.111172731	617.8552649	9.271125	EZH2P1	3.319306133	0	547.0328046	9.095484	HMGA1P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC03078	3.319306133	0	547.0328046	9.095484	FAM151AP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01750	3.319306133	0	547.0328046	9.095484	H2AC5P	0	1.659653067	893.1261388	9.80272
ARHGAP42P	0	1.111172731	617.8552649	9.271125	MYO3B-AS1	3.319306133	0	547.0328046	9.095484	XRCC6P2	0	1.659653067	893.1261388	9.80272
MTCH2P2	0	1.111172731	617.8552649	9.271125	LINC01798	3.319306133	0	547.0328046	9.095484	IQCM	0	1.659653067	893.1261388	9.80272
CLUHP8	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	GTF3C2-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RAB17-DT	0	1.659653067	893.1261388	9.80272
FXNP1	0	1.111172731	617.8552649	9.271125	SEC1P	3.319306133	0	547.0328046	9.095484	LINC02966	0	1.659653067	893.1261388	9.80272
EGILA	0	1.111172731	617.8552649	9.271125	RPL21P134	3.319306133	0	547.0328046	9.095484	JAKMIP3-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNRPEP4	3.319306133	0	547.0328046	9.095484	RPL7P8	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RPL21P5	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ITGA9-AS1	0	1.659653067	893.1261388	9.80272
LINC02317	0	1.111172731	617.8552649	9.271125	SYNJ2-IT1	3.319306133	0	547.0328046	9.095484	SKAP1-AS2	0	1.659653067	893.1261388	9.80272
DIO2-AS1	0	1.111172731	617.8552649	9.271125	OR52T1P	3.319306133	0	547.0328046	9.095484	SAPCD2P2	0	1.659653067	893.1261388	9.80272
RAP1AP	0	1.111172731	617.8552649	9.271125	LINC01503	3.319306133	0	547.0328046	9.095484	LINC00345	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02574	3.319306133	0	547.0328046	9.095484	LINC00298	0	1.659653067	893.1261388	9.80272
DUX4L27	0	1.111172731	617.8552649	9.271125	PAGE2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ADIPOR1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	SNRPGP5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC03068	3.319306133	0	547.0328046	9.095484	BRD7P5	0	1.659653067	893.1261388	9.80272
LINC02316	0	1.111172731	617.8552649	9.271125	LINC01505	3.319306133	0	547.0328046	9.095484	LINC00607	0	1.659653067	893.1261388	9.80272
LINC02691	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC00519	0	1.111172731	617.8552649	9.271125	SLC26A5-AS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TPRX2	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TPT1P9	3.319306133	0	547.0328046	9.095484	GSN-AS1	0	1.659653067	893.1261388	9.80272
LINC00648	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PKMP2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL17P48	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

APPBP2-DT	0	1.111172731	617.8552649	9.271125	CDK5R2-AS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	L3MBTL2-A	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ADNP-AS1	0	1.111172731	617.8552649	9.271125	MTCO2P11	3.319306133	0	547.0328046	9.095484	TCEA1P4	0	1.659653067	893.1261388	9.80272
MGC15885	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	EEF1A1P23	0	1.659653067	893.1261388	9.80272
KRT8P24	0	1.111172731	617.8552649	9.271125	GRM7-AS1	3.319306133	0	547.0328046	9.095484	OR51B8P	0	1.659653067	893.1261388	9.80272
RPL21P12	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CCDST	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MESTP2	0	1.111172731	617.8552649	9.271125	GCNT1P1	3.319306133	0	547.0328046	9.095484	ATG10-IT1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EEF1A1P22	0	1.111172731	617.8552649	9.271125	POTEH-AS1	3.319306133	0	547.0328046	9.095484	RPL34P10	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01474	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FBN1-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ZDHHC20-I1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HAND2-AS1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C4orf51	3.319306133	0	547.0328046	9.095484	RPL17P16	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	TMSB4XP1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ZNF295-AS1	3.319306133	0	547.0328046	9.095484	NF1P8	0	1.659653067	893.1261388	9.80272
AGBL1-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PRPF31-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PDE7B-AS1	3.319306133	0	547.0328046	9.095484	RPL12P27	0	1.659653067	893.1261388	9.80272
LINC02986	0	1.111172731	617.8552649	9.271125	PARK7P2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC01570	0	1.111172731	617.8552649	9.271125	LINC01866	3.319306133	0	547.0328046	9.095484	MAPK6P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01143	3.319306133	0	547.0328046	9.095484	RSL24D1P8	0	1.659653067	893.1261388	9.80272
NBAT1	0	1.111172731	617.8552649	9.271125	LINC01370	3.319306133	0	547.0328046	9.095484	RLIMP2	0	1.659653067	893.1261388	9.80272
KCNJ18	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	CAMTA1-IT1	0	1.659653067	893.1261388	9.80272
PPIAP49	0	1.111172731	617.8552649	9.271125	LINC01885	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
BMS1P8	0	1.111172731	617.8552649	9.271125	GOLGA2P5	3.319306133	0	547.0328046	9.095484	TRIM51EP	0	1.659653067	893.1261388	9.80272
PPM1L-DT	0	1.111172731	617.8552649	9.271125	LINC00426	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TPST2P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01448	3.319306133	0	547.0328046	9.095484	BANF1P3	0	1.659653067	893.1261388	9.80272
RUSF1-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	STPG4	3.319306133	0	547.0328046	9.095484	HNRNPA1P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL21P118	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SUGT1P3	3.319306133	0	547.0328046	9.095484	IRS4-AS1	0	1.659653067	893.1261388	9.80272
KLF8P1	0	1.111172731	617.8552649	9.271125	PRKAG2-AS	3.319306133	0	547.0328046	9.095484	SPTBN1-AS2	0	1.659653067	893.1261388	9.80272
ARHGAP23P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	FMO8P	0	1.659653067	893.1261388	9.80272
LINC01964	0	1.111172731	617.8552649	9.271125	LINC00881	3.319306133	0	547.0328046	9.095484	LINC01053	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL21P57	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL443P	3.319306133	0	547.0328046	9.095484	CD81-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL344P	3.319306133	0	547.0328046	9.095484	TSPY11P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC00707	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CA15P1	3.319306133	0	547.0328046	9.095484	SNORD13E	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RPL13P8	3.319306133	0	547.0328046	9.095484	Y_RNA.111	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	SCARNA18B	0	1.659653067	893.1261388	9.80272
LINC01989	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU7-141P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HOGA1	3.319306133	0	547.0328046	9.095484	RNU7-45P	0	1.659653067	893.1261388	9.80272
RNF126P1	0	1.111172731	617.8552649	9.271125	RPS20P33	3.319306133	0	547.0328046	9.095484	RNU7-82P	0	1.659653067	893.1261388	9.80272
PLA2G10JP	0	1.111172731	617.8552649	9.271125	RPL23AP68	3.319306133	0	547.0328046	9.095484	RNU7-19P	0	1.659653067	893.1261388	9.80272
NIFKP4	0	1.111172731	617.8552649	9.271125	RPL21P99	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CD24P2	0	1.111172731	617.8552649	9.271125	RPS3P7	3.319306133	0	547.0328046	9.095484	SCARNA10	0	1.659653067	893.1261388	9.80272
EIF4BP5	0	1.111172731	617.8552649	9.271125	TWF2-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL173P	3.319306133	0	547.0328046	9.095484	RNU2-11P	0	1.659653067	893.1261388	9.80272
ABCB10P3	0	1.111172731	617.8552649	9.271125	TICAM2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	FHL1P1	0	1.659653067	893.1261388	9.80272
EEF1A1P38	0	1.111172731	617.8552649	9.271125	NME2	3.319306133	0	547.0328046	9.095484	RPS26P49	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PLA2G4B	3.319306133	0	547.0328046	9.095484	RN7SL535P	0	1.659653067	893.1261388	9.80272
PPM1J-DT	0	1.111172731	617.8552649	9.271125	RN7SL743P	3.319306133	0	547.0328046	9.095484	HNRNPA3P8	0	1.659653067	893.1261388	9.80272
SLC25A1P4	0	1.111172731	617.8552649	9.271125	RN7SL398P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL396P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IGFBP7-AS1	3.319306133	0	547.0328046	9.095484	SLC9A9-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01096	3.319306133	0	547.0328046	9.095484	LNCSRLR	0	1.659653067	893.1261388	9.80272
LINC00922	0	1.111172731	617.8552649	9.271125	TNFRSF10A	3.319306133	0	547.0328046	9.095484	CPHL1P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RN7SL481P	0	1.659653067	893.1261388	9.80272
LINC01996	0	1.111172731	617.8552649	9.271125	MIR210HG	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SLIT3-AS1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00616	3.319306133	0	547.0328046	9.095484	LINC02030	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NACAP6	3.319306133	0	547.0328046	9.095484	C21orf91-OT1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LETR1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ARHGAP22-	3.319306133	0	547.0328046	9.095484	RN7SL582P	0	1.659653067	893.1261388	9.80272
TXNDC11-A	0	1.111172731	617.8552649	9.271125	HIGD1AP14	3.319306133	0	547.0328046	9.095484	RN7SL165P	0	1.659653067	893.1261388	9.80272
SAMD11P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	C3orf85	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EPIST	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MTCO1P40	0	1.111172731	617.8552649	9.271125	LINC02362	3.319306133	0	547.0328046	9.095484	SYNPR-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PCDHA11	3.319306133	0	547.0328046	9.095484	RN7SL441P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01411	3.319306133	0	547.0328046	9.095484	AGGF1P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01091	3.319306133	0	547.0328046	9.095484	ATP5F1AP7	0	1.659653067	893.1261388	9.80272
MIR5699	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RPS23P6	0	1.659653067	893.1261388	9.80272
LINC02002	0	1.111172731	617.8552649	9.271125	EEF1A1P35	3.319306133	0	547.0328046	9.095484	ALG1L15P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ANKRD17-I	3.319306133	0	547.0328046	9.095484	TOPORSLP	0	1.659653067	893.1261388	9.80272
RN7SL470P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RN7SL20P	0	1.659653067	893.1261388	9.80272
LINC02864	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	BMS1P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HEATR5A-I	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TUNAR	3.319306133	0	547.0328046	9.095484	MBL1P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RN7SL362P	0	1.659653067	893.1261388	9.80272
RN7SL784P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PFN2-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RPL12P7	0	1.659653067	893.1261388	9.80272
LINC01894	0	1.111172731	617.8552649	9.271125	LINC02208	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR4671	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NCMAP-DT	0	1.111172731	617.8552649	9.271125	ZNF969P	3.319306133	0	547.0328046	9.095484	RPS10P28	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	GSTA9P	0	1.659653067	893.1261388	9.80272
VSTM2B-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01998	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNY4P37	3.319306133	0	547.0328046	9.095484	LINC02045	0	1.659653067	893.1261388	9.80272
SNX19P3	0	1.111172731	617.8552649	9.271125	SNORA74D	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU6-638P	3.319306133	0	547.0328046	9.095484	RPL13AP22	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNA5SP33	3.319306133	0	547.0328046	9.095484	CFAP44-AS1	0	1.659653067	893.1261388	9.80272
WEE1P2	0	1.111172731	617.8552649	9.271125	RNU6-122P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RNU6-143P	3.319306133	0	547.0328046	9.095484	IGKV2-28	0	1.659653067	893.1261388	9.80272
MIR4446	0	1.111172731	617.8552649	9.271125	SCARNA3	3.319306133	0	547.0328046	9.095484	TMEM225B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LILRA6	0	1.659653067	893.1261388	9.80272
MIR4782	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	HDAC11-AS	0	1.659653067	893.1261388	9.80272

ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02086	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PENK-AS1	3.319306133	0	547.0328046	9.095484	RN7SL280P	0	1.659653067	893.1261388	9.80272
MIR5704	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RN7SL47P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02235	3.319306133	0	547.0328046	9.095484	LINC02709	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	FRG1-DT	0	1.659653067	893.1261388	9.80272
RN7SL574P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GRAMD4P7	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	GS1-24F4.2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01513	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02466	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01498	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ARHGAP11B	0	1.659653067	893.1261388	9.80272
RN7SL377P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	TUBAP14	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02443	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RN7SL48P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01019	0	1.659653067	893.1261388	9.80272
RPSAP67	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RBBP4P5	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	STX18-IT1	0	1.659653067	893.1261388	9.80272
DHX40P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NTF6A	0	1.111172731	617.8552649	9.271125	HSPD1P4	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02401	3.319306133	0	547.0328046	9.095484	NDUFA5P12	0	1.659653067	893.1261388	9.80272
MIX23P3	0	1.111172731	617.8552649	9.271125	TBX3-AS1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PHLDA1-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNX5P2	3.319306133	0	547.0328046	9.095484	HMGA1P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01331	0	1.659653067	893.1261388	9.80272
SDHDP1	0	1.111172731	617.8552649	9.271125	ATXN2-AS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ZNF652-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ITFG2-AS1.1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ZNF566-AS1	0	1.111172731	617.8552649	9.271125	LINC00239	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KC6	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	NUP210P3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01335	0	1.659653067	893.1261388	9.80272
CYP4F9P	0	1.111172731	617.8552649	9.271125	ENO1P2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC01864	0	1.111172731	617.8552649	9.271125	MIA2-AS1	3.319306133	0	547.0328046	9.095484	CTNNA1P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GALNT16-A	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NUP50P1	3.319306133	0	547.0328046	9.095484	AMD1P3	0	1.659653067	893.1261388	9.80272
SHC1P2	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ERVK-28	0	1.111172731	617.8552649	9.271125	MTND5P32	3.319306133	0	547.0328046	9.095484	TOMM40P3	0	1.659653067	893.1261388	9.80272
LINC01999	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01060	0	1.659653067	893.1261388	9.80272
OR7E16P	0	1.111172731	617.8552649	9.271125	ISL1-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01220	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02465	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	OR52V1P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MRPS17P1	0	1.111172731	617.8552649	9.271125	LINC02562	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HOMER3-AS	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00562	3.319306133	0	547.0328046	9.095484	OR7E43P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TPRKBP2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	AGA-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CYP4F23P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RPL13AP26	0	1.659653067	893.1261388	9.80272
OR7A8P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PTPN11P4	0	1.659653067	893.1261388	9.80272
SIGLEC27P	0	1.111172731	617.8552649	9.271125	SPECC1-DT	3.319306133	0	547.0328046	9.095484	LINC02197	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	CRLF3P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PHOX2B-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02999	0	1.659653067	893.1261388	9.80272
GAS5-AS1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MICOS10-NE	0	1.111172731	617.8552649	9.271125	LINC01654	3.319306133	0	547.0328046	9.095484	RPF2P2	0	1.659653067	893.1261388	9.80272
IMMP1LP1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02221	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	EPHA5-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	HNRNPKP1	0	1.659653067	893.1261388	9.80272
UNGP3	0	1.111172731	617.8552649	9.271125	DKFZP434A	3.319306133	0	547.0328046	9.095484	LNX1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IGHV3OR16-	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ZFPM2-AS1	0	1.659653067	893.1261388	9.80272
ECM1P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	GAPDHP62	0	1.659653067	893.1261388	9.80272
THAP5P2	0	1.111172731	617.8552649	9.271125	CTNS-AS1	3.319306133	0	547.0328046	9.095484	TMEM92-AS	0	1.659653067	893.1261388	9.80272
OOEPP1	0	1.111172731	617.8552649	9.271125	MTND3P13	3.319306133	0	547.0328046	9.095484	LINC02384	0	1.659653067	893.1261388	9.80272
PPP1R14BP4	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SRD5A3P1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR3679	3.319306133	0	547.0328046	9.095484	GYG1P1	0	1.659653067	893.1261388	9.80272
SNRPGP17	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-377P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNA5SP157	0	1.659653067	893.1261388	9.80272
BRDTP1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-1143P	0	1.659653067	893.1261388	9.80272
KRT18P9	0	1.111172731	617.8552649	9.271125	MIR4324	3.319306133	0	547.0328046	9.095484	Y_RNA.117	0	1.659653067	893.1261388	9.80272
LAPTM4BP2	0	1.111172731	617.8552649	9.271125	POLR3KP2	3.319306133	0	547.0328046	9.095484	RNA5SP341	0	1.659653067	893.1261388	9.80272
COPS8P1	0	1.111172731	617.8552649	9.271125	MIR4774	3.319306133	0	547.0328046	9.095484	RNU7-13P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR5192	3.319306133	0	547.0328046	9.095484	RNU6-1337P	0	1.659653067	893.1261388	9.80272
RPL17P3	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-100P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	SCARNA20	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-807P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MIR4766	3.319306133	0	547.0328046	9.095484	RNU6-453P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-928P	0	1.659653067	893.1261388	9.80272
TMEM14B-D	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RN7SKP5	0	1.659653067	893.1261388	9.80272
LINC01749	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	Y_RNA.126	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	Y_RNA.127	0	1.659653067	893.1261388	9.80272
LINC02637	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU6-1057P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02080	3.319306133	0	547.0328046	9.095484	RN7SKP234	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RNU7-181P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01140	3.319306133	0	547.0328046	9.095484	HNRNPA3P7	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC01764	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR1X1P	0	1.111172731	617.8552649	9.271125	KDSR-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EIF2B5-DT	0	1.111172731	617.8552649	9.271125	NUDT19-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CIRBP-AS1	3.319306133	0	547.0328046	9.095484	LINC02143	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	STAU2-AS1	0	1.659653067	893.1261388	9.80272
CSGALNACT	0	1.111172731	617.8552649	9.271125	ICAM4-AS1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC01990	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC02237	0	1.659653067	893.1261388	9.80272
OR7E39P	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	HPYR1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	DPPA3P9	0	1.659653067	893.1261388	9.80272
OR10G1P	0	1.111172731	617.8552649	9.271125	SPANXN2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR6776	0	1.111172731	617.8552649	9.271125	MAST3-AS1	3.319306133	0	547.0328046	9.095484	GRPEL2-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ZNF350-AS1	3.319306133	0	547.0328046	9.095484	LINC03047	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NXF2	3.319306133	0	547.0328046	9.095484	LINC03022	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	SOD1P3	0	1.659653067	893.1261388	9.80272
MIR6842	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C16orf95-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
7SK	0	1.111172731	617.8552649	9.271125	TSNAX-DIS	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02804	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	INTS9-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PPP2CA-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR6761	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MLLT6	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	PIWIL2-DT	0	1.659653067	893.1261388	9.80272
LINC02960	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC01299	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IGHV3OR16	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC01730	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	IMPDH1P6	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02427	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ALG9-IT1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SNORD14A	3.319306133	0	547.0328046	9.095484	RANP3	0	1.659653067	893.1261388	9.80272
U4	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MAP7-AS1	3.319306133	0	547.0328046	9.095484	EIF4A2P3	0	1.659653067	893.1261388	9.80272
PIP4K2B	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DAP-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC02751	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BTF3-DT	3.319306133	0	547.0328046	9.095484	CYCSP28	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PADI6	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LRRC8D-DT	3.319306133	0	547.0328046	9.095484	TOLLIP-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	RNY1P9	0	1.659653067	893.1261388	9.80272
CICP28	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	MRPS36P4	0	1.659653067	893.1261388	9.80272
PCGF2	0	1.111172731	617.8552649	9.271125	H3-7	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	OR7E4P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR7M1P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	AKTIPP3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR8075	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LINC02351	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ZFP91P1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR6726	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CKAP2-DT	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR6781	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	GAPDH-DT	0	1.659653067	893.1261388	9.80272
BEND3P3	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	PUS1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL663P	3.319306133	0	547.0328046	9.095484	LINC02824	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	CADM1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	H4C7	3.319306133	0	547.0328046	9.095484	LINC02375	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	YWHABP2	0	1.659653067	893.1261388	9.80272
OR10A6	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	OR13A1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RN7SL192P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	TMEM132D-	0	1.659653067	893.1261388	9.80272
OR8D2	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ADGRA1-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CHD9NB	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC02388	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	UHRF1BP1L	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC02386	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NCOR1P4	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	RCCD1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	OR11H2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	LINC02290	0	1.659653067	893.1261388	9.80272
RPL23AP61	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	SERPINA2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	RPL21P5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	SUB1P2	0	1.659653067	893.1261388	9.80272
FRG1KP	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	HIF1A-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG00000	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

MIR325HG	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CICP14	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DNAJB5-DT	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	NPM1P5	0	1.659653067	893.1261388	9.80272
SAMD12-AS	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	CHORDC2P	0	1.659653067	893.1261388	9.80272
HERC2P7	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HSP90AB4P	3.319306133	0	547.0328046	9.095484	LRP1-AS	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	NMNAT1P1	0	1.659653067	893.1261388	9.80272
CDC27P3	0	1.111172731	617.8552649	9.271125	LBHD2	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PET100P1	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
C13orf46	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	APPBP2-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CNTNAP3C	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIR548A1HC	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	RPL21P12	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINGO1-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SMIM41	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR4C48P	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	FBN1-DT	0	1.659653067	893.1261388	9.80272
MIR555	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TAF11L13	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC00261	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	KCNQ5-DT	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	KRBOX5P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LSM3P5	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	MBTPS1-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02240	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	EIF4EBP2P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ACTR3BP3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC02134	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	C2orf69P4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C2orf27A	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LCAL1	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PPM1L-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	CASC17	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01964	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01633	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01989	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	LINC01686	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	PAQR5-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	MIR3976HG	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	AGGF1P8	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	GOSR2-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
THCAT155	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	C17orf114	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	TXNDC11-A	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	FAM187B2P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR7E47P	3.319306133	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00888	3.319306133	0	547.0328046	9.095484	SNORA70D	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	MIR4744	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000002	3.319306133	0	547.0328046	9.095484	DLGAP1-AS4	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SERPINB3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	REM1	2.4894796	0	547.0328046	9.095484	RN7SL336P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	R3HDML	2.4894796	0	547.0328046	9.095484	LINC02003	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OXT	2.4894796	0	547.0328046	9.095484	MIR4803	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PHOX2B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C11orf21	2.4894796	0	547.0328046	9.095484	RN7SL665P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PTP4A1	2.4894796	0	547.0328046	9.095484	AIDAP3	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CCR6	2.4894796	0	547.0328046	9.095484	RN7SL753P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RBP2	2.4894796	0	547.0328046	9.095484	MIR4694	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MLANA	2.4894796	0	547.0328046	9.095484	MIR548AT	0	1.659653067	893.1261388	9.80272

ENSG000002	0	1.111172731	617.8552649	9.271125	SEC16B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SPART-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GJA3	2.4894796	0	547.0328046	9.095484	MIR4798	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	H2BW1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TP53TG5	2.4894796	0	547.0328046	9.095484	MIR3140	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SLC10A2	2.4894796	0	547.0328046	9.095484	MIR4504	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CST8	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NKX2-4	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	YWHAH-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SOX15	2.4894796	0	547.0328046	9.095484	MIR4540	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MAS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	H19	2.4894796	0	547.0328046	9.095484	MIR4301	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	RXFP2	2.4894796	0	547.0328046	9.095484	MIR548AM	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GNG5B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	BAAT	2.4894796	0	547.0328046	9.095484	RN7SL74P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MGARP	2.4894796	0	547.0328046	9.095484	MIR4471	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TM4SF5	2.4894796	0	547.0328046	9.095484	MIR3139	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SCML4	2.4894796	0	547.0328046	9.095484	RN7SL375P	0	1.659653067	893.1261388	9.80272
ZCCHC14-DT	0	1.111172731	617.8552649	9.271125	TAAR1	2.4894796	0	547.0328046	9.095484	LINC02958	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	AWAT2	2.4894796	0	547.0328046	9.095484	ZNF516-AS1	0	1.659653067	893.1261388	9.80272
5S_rRNA.2	0	1.111172731	617.8552649	9.271125	PPP1R1C	2.4894796	0	547.0328046	9.095484	MIR4725	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LYSET	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CCT8	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	KLHL40	2.4894796	0	547.0328046	9.095484	MIR5587	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	HMHB1	2.4894796	0	547.0328046	9.095484	SRP68P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PIP	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CTAGE4	0	1.111172731	617.8552649	9.271125	DCLK3	2.4894796	0	547.0328046	9.095484	MIR5681A	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DNAJC5G	2.4894796	0	547.0328046	9.095484	LGALS9DP	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C4orf45	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SPINK1	2.4894796	0	547.0328046	9.095484	MIR4482	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GJB7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	INTS4P1	2.4894796	0	547.0328046	9.095484	LRRC37A16I	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SLC35G3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EN2	2.4894796	0	547.0328046	9.095484	E2F3P1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PHOX2A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OTX2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GFI1B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SPATA19	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR51I1	2.4894796	0	547.0328046	9.095484	BCAS3-AS1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR2W6P	2.4894796	0	547.0328046	9.095484	DPY19L3-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC00917	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CA7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SOX14	2.4894796	0	547.0328046	9.095484	KIF18B-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NR0B1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PROKR1	2.4894796	0	547.0328046	9.095484	ZNF582-DT	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GSX1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	SOX7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LKAAEAR1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NHLH1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR4C11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IQCF1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CENPS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NF1P5	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000001	2.4894796	0	547.0328046	9.095484	LINC01801	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENTHD1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02914	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	OR51N1P	2.4894796	0	547.0328046	9.095484	ARHGEF18-/	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	MAGEB10	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	C10orf53	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LBX2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	NAIPP2	2.4894796	0	547.0328046	9.095484	TCP11X1	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000001	2.4894796	0	547.0328046	9.095484	ARPC1AP2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GARIN6	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TPT1P10	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LINC02363	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GREM2	2.4894796	0	547.0328046	9.095484	MAGEA2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	EDDM3A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TMEM252	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FAM238A	0	1.111172731	617.8552649	9.271125	ADIG	2.4894796	0	547.0328046	9.095484	PNMA6B	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PRKCZ-AS1	2.4894796	0	547.0328046	9.095484	ZNF209P	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	FAM9A	2.4894796	0	547.0328046	9.095484	OR7A8P	0	1.659653067	893.1261388	9.80272
TCP10L3	0	1.111172731	617.8552649	9.271125	OR52L1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	TMEM89	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	GDF3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	CEND1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NXF4	0	1.111172731	617.8552649	9.271125	SERINC4	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NMRAL2P	0	1.111172731	617.8552649	9.271125	TCEAL2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UBBP4	0	1.111172731	617.8552649	9.271125	KLHL34	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	DLEU7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	ENSG000001	2.4894796	0	547.0328046	9.095484	MTATP6P2	0	1.659653067	893.1261388	9.80272
ABCC6P1	0	1.111172731	617.8552649	9.271125	CA5BP1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	IRX2-DT	2.4894796	0	547.0328046	9.095484	KNOP1P2	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	H1-7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CROCCP2.1	0	1.111172731	617.8552649	9.271125	KRTAP12-1	2.4894796	0	547.0328046	9.095484	H3P8	0	1.659653067	893.1261388	9.80272
SEPTIN7P11	0	1.111172731	617.8552649	9.271125	OTUD6A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	PFN3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	H2BC26	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	0	1.111172731	617.8552649	9.271125	LCE1C	2.4894796	0	547.0328046	9.095484	LINC03067	0	1.659653067	893.1261388	9.80272
ASMTL-AS1	0	1.111172731	617.8552649	9.271125	OR52M1	2.4894796	0	547.0328046	9.095484	MTCO1P22	0	1.659653067	893.1261388	9.80272
LINC00106	0	1.111172731	617.8552649	9.271125	IFNA1	2.4894796	0	547.0328046	9.095484	DPRXP2	0	1.659653067	893.1261388	9.80272
LRRTM1	2.201284833	1360.075423	617.8552649	9.271125	TAT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SUCNR1	8.80513933	5420.300584	615.5837382	9.265811	MIR365A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
AVPR1B	2.201284833	1168.953713	531.0324662	9.052656	Y_RNA.1	2.4894796	0	547.0328046	9.095484	LINC02550	0	1.659653067	893.1261388	9.80272
SLC13A4	4.402569665	1208.955932	274.6023399	8.1012	RNU4-21P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OSTN	1.100642416	300.0166375	272.5832051	8.090553	ENSG000002	2.4894796	0	547.0328046	9.095484	TNPO3P1	0	1.659653067	893.1261388	9.80272
CTSE	2.201284833	598.9221022	272.0784214	8.087879	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IL5RA	5.503212081	1478.970906	268.7468489	8.070104	Y_RNA.20	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SCARA5	3.301927249	833.3795486	252.3918566	7.979522	RNA5SP263	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ECEL1	12.10706658	2980.165266	246.1508943	7.943399	RNU6-1209P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
AOC1	16.50963624	3453.524849	209.1823707	7.708617	Y_RNA.30	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC6A13	4.402569665	858.9365214	195.0989051	7.608062	RNVU1-34	2.4894796	0	547.0328046	9.095484	ARF4-AS1	0	1.659653067	893.1261388	9.80272

SLC6A20	11.00642416	1888.993643	171.6264625	7.423128	Y_RNA.39	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NRG3	9.905781747	1465.636833	147.957715	7.209041	RNU6-1305P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TRPM3	48.42826632	6967.053026	143.8633582	7.168555	RNA5SP84	2.4894796	0	547.0328046	9.095484	RNU6-90P	0	1.659653067	893.1261388	9.80272
TRH	1.100642416	153.3418369	139.3203048	7.122262	RNU6-828P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DAB1	19.81156349	2759.041892	139.2642177	7.121681	RNU6-1327P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC6A4	11.00642416	1532.307197	139.2193481	7.121216	Y_RNA.60	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ZIC1	6.603854498	895.6052215	135.6185576	7.083411	Y_RNA.65	2.4894796	0	547.0328046	9.095484	ZSWIM8-AS1	0	1.659653067	893.1261388	9.80272
CEACAM20	2.201284833	291.1272556	132.2533328	7.04716	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NXPE1	8.80513933	1076.726377	122.2838545	6.93409	LINC00222	2.4894796	0	547.0328046	9.095484	EFCAB10-AS	0	1.659653067	893.1261388	9.80272
GJB2	4.402569665	487.8048291	110.800025	6.791814	CXorf66	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC6A1	14.30835141	1547.863615	108.1790327	6.757277	IER5L-AS1	2.4894796	0	547.0328046	9.095484	HNRNPD-DT	0	1.659653067	893.1261388	9.80272
CA10	1.100642416	116.6731368	106.0045798	6.727983	TAP2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
AADAC	2.201284833	225.5680645	102.4710938	6.679073	CSNK2B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PAPPA2	6.603854498	626.7014205	94.89933807	6.568326	PABPN1L	2.4894796	0	547.0328046	9.095484	HK2-DT	0	1.659653067	893.1261388	9.80272
FOXC2	4.402569665	416.6897743	94.64694621	6.564484	CLLU1-AS1	2.4894796	0	547.0328046	9.095484	SLC30A6-DT	0	1.659653067	893.1261388	9.80272
CORIN	88.0513933	8158.230194	92.65305054	6.533767	ADARB2-AS	2.4894796	0	547.0328046	9.095484	EIF2B5-DT	0	1.659653067	893.1261388	9.80272
GRM3	2.201284833	195.5664007	88.84193351	6.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
VCX3B	1.100642416	95.5608549	86.82279866	6.440002	RNASE13	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
WFIKKN2	3.301927249	285.571392	86.48627618	6.434399	RNU6-979P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DLGAP3	4.402569665	371.1316923	84.29888009	6.397442	RNU6-1279P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TGIF2LX	4.402569665	364.4646559	82.78452895	6.371289	Y_RNA.69	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
COL9A3	11.00642416	864.4923851	78.54434576	6.295436	RNU6-444P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FOXD1	4.402569665	318.9065739	72.43646283	6.178644	RNU6-748P	2.4894796	0	547.0328046	9.095484	RALGPS2-AS	0	1.659653067	893.1261388	9.80272
TRIM49	3.301927249	237.7909645	72.01580974	6.170242	SNORA46	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CLCA2	23.11349074	1625.645706	70.33319736	6.136134	MIR550A2	2.4894796	0	547.0328046	9.095484	INSIG1-DT	0	1.659653067	893.1261388	9.80272
PCDH11X	41.82441182	2739.040783	65.48904489	6.033182	MIR554	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PRODH	1.100642416	70.00388208	63.60274785	5.991017	MIR532	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ATP12A	8.80513933	551.1416748	62.59318043	5.967934	MIR586	2.4894796	0	547.0328046	9.095484	CNNM3-DT	0	1.659653067	893.1261388	9.80272
ITIH2	24.21413316	1472.303869	60.80349272	5.926082	MIR27B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GLRA3	5.503212081	334.4629922	60.77595906	5.925429	MIR601	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCND2	1.100642416	66.67036389	60.57404557	5.920628	MIR618	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DDAH2	4.402569665	252.23621	57.29295144	5.840286	IGKV1D-42	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
STXBP5L	64.93790256	3690.204641	56.82666818	5.828496	TRAV13-2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CEMIP	188.2098532	10402.79911	55.27234061	5.788486	TRAJ41	2.4894796	0	547.0328046	9.095484	LINC02725	0	1.659653067	893.1261388	9.80272
PNMA2	2.201284833	116.6731368	53.00228988	5.727983	IGHV3-23	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SHANK3	1.100642416	54.44746384	49.46880389	5.628447	IGHV3-33	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GSTA2	2.201284833	106.6725822	48.45923646	5.5987	RNU6-298P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NRIP3	24.21413316	1128.951495	46.62365932	5.54299	RNU6-1242P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CLSTN2	24.21413316	1114.50625	46.02709675	5.524412	SNORD113-3	2.4894796	0	547.0328046	9.095484	MIR6075	0	1.659653067	893.1261388	9.80272
SLPI	107.8629568	4910.2723	45.52324956	5.508532	RNU6-808P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OSTN-AS1	1.100642416	50.00277291	45.43053418	5.50559	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ULBP2	3.301927249	148.897146	45.09401171	5.494864	PTMAP10	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SERPINI1	58.33404806	2544.585555	43.62093219	5.446949	RPL12P42	2.4894796	0	547.0328046	9.095484	7SK	0	1.659653067	893.1261388	9.80272
APLNR	2.201284833	95.5608549	43.41139933	5.440002	RPS7P11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ATP2B2	2.201284833	93.33850944	42.4018319	5.406055	CNN2P8	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR2C3	1.100642416	45.55808199	41.39226448	5.371289	ST13P11	2.4894796	0	547.0328046	9.095484	U2	0	1.659653067	893.1261388	9.80272
IL19	1.100642416	44.44690926	40.38269705	5.335665	RPSAP54	2.4894796	0	547.0328046	9.095484	GUSBP7	0	1.659653067	893.1261388	9.80272
CD177	16.50963624	660.0366025	39.97887008	5.321166	HMGB1P10	2.4894796	0	547.0328046	9.095484	Metazoa_SRP	0	1.659653067	893.1261388	9.80272
OR4D1	1.100642416	43.33573653	39.37312962	5.299139	CEACAM18	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HBA2	4.402569665	168.8982552	38.3635622	5.261665	EEF1B2P2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DNASE1L3	28.61670282	1091.171622	38.1305851	5.252877	HBG1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SPACA1	1.100642416	41.11339106	37.35399477	5.223191	RPL31P10	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ACY3	1.100642416	41.11339106	37.35399477	5.223191	ENSG000002	2.4894796	0	547.0328046	9.095484	RPL7AP45	0	1.659653067	893.1261388	9.80272
CALN1	5.503212081	204.4557826	37.15208129	5.215371	LINC02026	2.4894796	0	547.0328046	9.095484	PDCD6IPP1	0	1.659653067	893.1261388	9.80272
SYT4	3.301927249	122.2290005	37.0174723	5.210134	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SHH	11.00642416	402.2445288	36.54634083	5.191655	NPM1P10	2.4894796	0	547.0328046	9.095484	LINC03043	0	1.659653067	893.1261388	9.80272
GAL	4.402569665	160.0088733	36.34442734	5.183662	LRRC37A11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR14K1	2.201284833	80.00443666	36.34442734	5.183662	DEFB113	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DMRT3	1.100642416	40.00221833	36.34442734	5.183662	SRSF8CP	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR2V2	1.100642416	40.00221833	36.34442734	5.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CLDN11	19.81156349	720.03993	36.34442734	5.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR6720	0	1.659653067	893.1261388	9.80272
KL	40.7237694	1476.74856	36.26257053	5.180409	MPRIPP1	2.4894796	0	547.0328046	9.095484	MIR7975	0	1.659653067	893.1261388	9.80272
GRIN2B	18.71092108	664.4812934	35.51301888	5.150276	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
WNT6	3.301927249	115.5619641	34.99833744	5.129214	ENSG000002	2.4894796	0	547.0328046	9.095484	Metazoa_SRP	0	1.659653067	893.1261388	9.80272
COL11A1	57.23340565	2000.110917	34.94656475	5.127079	UBE2QL1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UROC1	1.100642416	37.77987287	34.32529249	5.1012	ZNF663P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CHRM2	1.100642416	37.77987287	34.32529249	5.1012	FAM230B	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC16A12	6.603854498	226.6792372	34.32529249	5.1012	MFFP1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HGD	39.62312699	1351.186041	34.10094418	5.09174	RFKP1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IGLON5	1.100642416	36.66870014	33.31572507	5.058131	RBM33-DT	2.4894796	0	547.0328046	9.095484	U4	0	1.659653067	893.1261388	9.80272
SPATA31B1P	1.100642416	36.66870014	33.31572507	5.058131	H2BC16P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	35.55752741	32.30615764	5.013737	NPM1P37	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RNF182	7.704496914	248.9026918	32.30615764	5.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CYP26A1	2.201284833	70.00388208	31.80137393	4.991017	RCC2P7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MRO	1.100642416	34.44635467	31.29659021	4.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR6083	0	1.659653067	893.1261388	9.80272
C2CD4B	3.301927249	103.339064	31.29659021	4.967934	MIR1305	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SERTM1	3.301927249	101.1167186	30.62354526	4.936569	RNU6ATAC	2.4894796	0	547.0328046	9.095484	PADI6	0	1.659653067	893.1261388	9.80272
C1orf127	1.100642416	33.33518194	30.28702279	4.920628	MIR1289-1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SBSN	1.100642416	33.33518194	30.28702279	4.920628	MIR548F2	2.4894796	0	547.0328046	9.095484	DUSP12P1	0	1.659653067	893.1261388	9.80272
GREP1	1.100642416	33.33518194	30.28702279	4.920628	OR3A2	2.4894796	0	547.0328046	9.095484	RNA5SP530	0	1.659653067	893.1261388	9.80272
UPK1B	3.301927249	100.0055458	30.28702279	4.920628	Y_RNA.103	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SDCBP2	6.603854498	197.7887462	29.95050031	4.904508	RNU2-37P	2.4894796	0	547.0328046	9.095484	GTSE1-DT	0	1.659653067	893.1261388	9.80272
OR1I1	2.201284833	65.55919115	29.78223907	4.89638	RN7SKP212	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TBX18	2.201284833	65.55919115	29.78223907	4.89638	RN7SKP97	2.4894796	0	547.0328046	9.095484	SPDYE20P	0	1.659653067	893.1261388	9.80272
HTR2C	4.402569665	128.8960368	29.27745536	4.871718	RNA5SP344	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	32.22400921	29.27745536	4.871718	RNA5SP450	2.4894796	0	547.0328046	9.095484	RN7SL473P	0	1.659653067	893.1261388	9.80272
ENSG000002	2.201284833	63.33684569	28.77267165	4.846627	RNA5SP221	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GPR83	3.301927249	94.44968217	28.60441041	4.838166	ENSG000002	2.4894796	0	547.0328046	9.095484	SLCO4A1-AS	0	1.659653067	893.1261388	9.80272
TNFRSF11B	15.40899383	438.9132289	28.48422381	4.832091	ENSG000002	2.4894796	0	547.0328046	9.095484	H3C5P	0	1.659653067	893.1261388	9.80272
SLC9A3	4.402569665	124.4513459	28.26788793	4.821092	KIF28P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HOXC12	1.100642416	31.11283648	28.26788793	4.821092	SUPT20HL2	2.4894796	0	547.0328046	9.095484	MIR8075	0	1.659653067	893.1261388	9.80272
SEC14L4	1.100642416	31.11283648	28.26788793	4.821092	NUP133-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR9I1	1.100642416	31.11283648	28.26788793	4.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CIDEA	1.100642416	31.11283648	28.26788793	4.821092	ENTPD3-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC7A11	59.43469048	1632.312742	27.46397313	4.779468	LINC02471	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ELAVL2	7.704496914	211.122819	27.40254443	4.776238	IGKV3D-15	2.4894796	0	547.0328046	9.095484	Metazoa_SRP	0	1.659653067	893.1261388	9.80272
SEC14L6	2.201284833	60.0033275	27.25832051	4.768625	C10orf67-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GDPD2	1.100642416	30.00166375	27.25832051	4.768625	OLFM5P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
VN1R3	1.100642416	30.00166375	27.25832051	4.768625	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
POU3F1	1.100642416	30.00166375	27.25832051	4.768625	RPL36P6	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PCDHA9	1.100642416	30.00166375	27.25832051	4.768625	BACE2-IT1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

ENSG000002	1.100642416	30.00166375	27.25832051	4.768625	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	30.00166375	27.25832051	4.768625	RPL4P7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NNAT	4.402569665	118.8954823	27.00592865	4.755204	ATP5PBP1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCNT1	6.603854498	177.787637	26.92179803	4.750703	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GABRD	2.201284833	58.89215477	26.7535368	4.741658	PLA2G12AP	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CHL1	227.8329802	6018.111513	26.41457575	4.723262	LINC01167	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
C4orf48	4.402569665	115.5619641	26.24875308	4.714177	LINC02830	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UPK2	1.100642416	28.89049102	26.24875308	4.714177	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SIGLEC11	1.100642416	28.89049102	26.24875308	4.714177	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ALX4	7.704496914	198.8999189	25.81608133	4.690198	TOMM22P5	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCNN1	7.704496914	198.8999189	25.81608133	4.690198	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MARCO	4.402569665	113.3396186	25.74396937	4.686163	TAF1A-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LYVE1	23.11349074	593.3662386	25.67185741	4.682116	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ZIC2	23.11349074	583.365684	25.23918566	4.657593	LINC02813	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LHX2	1.100642416	27.77931829	25.23918566	4.657593	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SHBG	1.100642416	27.77931829	25.23918566	4.657593	LRRC3B-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR10A7	1.100642416	27.77931829	25.23918566	4.657593	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PRR30	1.100642416	27.77931829	25.23918566	4.657593	RPL36AP28	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SSTR2	18.71092108	463.359029	24.7640951	4.630178	LINC01703	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MKRN9P	4.402569665	108.8949277	24.73440194	4.628447	PAWRP1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HTR1F	25.31477557	625.5902478	24.71245483	4.627166	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SOX11	5.503212081	135.5630732	24.6334452	4.622547	PTPRD-AS1	2.4894796	0	547.0328046	9.095484	LINC02912	0	1.659653067	893.1261388	9.80272
ENPP6	29.71734524	724.4846209	24.37918377	4.607578	TEX14BP	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC30A3	4.402569665	106.6725822	24.22961823	4.5987	GRM7-AS3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IGFALS	1.100642416	26.66814555	24.22961823	4.5987	VN2R10P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR1L4	1.100642416	26.66814555	24.22961823	4.5987	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PCSK1N	51.73019357	1234.512905	23.86445554	4.576792	CYP4F26P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DHRS1	2.201284833	52.22511838	23.72483452	4.568326	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	2.201284833	52.22511838	23.72483452	4.568326	LINC01108	2.4894796	0	547.0328046	9.095484	LINC01348	0	1.659653067	893.1261388	9.80272
PSG7	2.201284833	52.22511838	23.72483452	4.568326	DISC1-IT1	2.4894796	0	547.0328046	9.095484	CPS1-IT1	0	1.659653067	893.1261388	9.80272
DISP2	2.201284833	51.11394565	23.2200508	4.537299	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ABCG8	1.100642416	25.55697282	23.2200508	4.537299	ENSG00000	2.4894796	0	547.0328046	9.095484	LINC00538	0	1.659653067	893.1261388	9.80272
CLDN17	1.100642416	25.55697282	23.2200508	4.537299	BEND7-DT	2.4894796	0	547.0328046	9.095484	DUX4L8	0	1.659653067	893.1261388	9.80272
DCAF8L1	1.100642416	25.55697282	23.2200508	4.537299	RNF6P1	2.4894796	0	547.0328046	9.095484	PAUPAR	0	1.659653067	893.1261388	9.80272
SLC6A12	7.704496914	178.8988098	23.2200508	4.537299	KIF1C-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TMEM132C	50.62955115	1170.064886	23.11031521	4.530465	ENSG00000	2.4894796	0	547.0328046	9.095484	FKBP1AP4	0	1.659653067	893.1261388	9.80272
TMEM74	6.603854498	151.1194915	22.88352833	4.516238	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CDC20B	2.201284833	50.00277291	22.71526709	4.50559	ENSG00000	2.4894796	0	547.0328046	9.095484	LINC02746	0	1.659653067	893.1261388	9.80272
ENSG000002	3.301927249	74.44857301	22.54700585	4.494864	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EXTL1	1.100642416	24.44580009	22.21048338	4.473169	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HSD3B1	1.100642416	24.44580009	22.21048338	4.473169	SELENOOLI	2.4894796	0	547.0328046	9.095484	MIR2052	0	1.659653067	893.1261388	9.80272
OR10G8	1.100642416	24.44580009	22.21048338	4.473169	TARID	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	24.44580009	22.21048338	4.473169	LINC01736	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CHST9	47.3276239	1041.168849	21.99917857	4.459378	ENSG00000	2.4894796	0	547.0328046	9.095484	MIR4320	0	1.659653067	893.1261388	9.80272
RHBG	2.201284833	47.78042745	21.70569966	4.440002	ENSG00000	2.4894796	0	547.0328046	9.095484	MIR548A1H(	0	1.659653067	893.1261388	9.80272
GNAS-AS1	2.201284833	47.78042745	21.70569966	4.440002	ENSG00000	2.4894796	0	547.0328046	9.095484	MIR4454	0	1.659653067	893.1261388	9.80272
SPATA31A1	2.201284833	46.66925472	21.20091595	4.406055	FALEC	2.4894796	0	547.0328046	9.095484	MIR1244-2	0	1.659653067	893.1261388	9.80272
MOGAT3	1.100642416	23.33462736	21.20091595	4.406055	NACA4P	2.4894796	0	547.0328046	9.095484	MIR4317	0	1.659653067	893.1261388	9.80272
PLAAT2	1.100642416	23.33462736	21.20091595	4.406055	LINC01013	2.4894796	0	547.0328046	9.095484	MIR924	0	1.659653067	893.1261388	9.80272
OR51B4	1.100642416	23.33462736	21.20091595	4.406055	NUTM2E	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DCDC2B	1.100642416	23.33462736	21.20091595	4.406055	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FAM236D	1.100642416	23.33462736	21.20091595	4.406055	NEGR1-IT1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SCNN1D	11.00642416	232.2351009	21.09995921	4.399168	ACTR3-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SSUH2	3.301927249	68.89270935	20.86439348	4.382971	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GABRB2	6.603854498	136.674246	20.69613224	4.371289	SEPTIN7P8	2.4894796	0	547.0328046	9.095484	TBCE	0	1.659653067	893.1261388	9.80272
CATSPER1	2.201284833	45.55808199	20.69613224	4.371289	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR4D10	2.201284833	45.55808199	20.69613224	4.371289	RPS26P18	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GALNTL6	3.301927249	67.78153662	20.527871	4.359512	CALM2P2	2.4894796	0	547.0328046	9.095484	SOD2-OT1	0	1.659653067	893.1261388	9.80272
SPATA31C2	3.301927249	67.78153662	20.527871	4.359512	RPS7P4	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SYT16	12.10706658	247.7915191	20.4666851	4.355206	RUNX3-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR2M1P	2.201284833	44.44690926	20.19134852	4.335665	ST13P13	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SELENOV	2.201284833	44.44690926	20.19134852	4.335665	LINC03036	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC10A1	1.100642416	22.22345463	20.19134852	4.335665	PGBD4P8	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LIM2	1.100642416	22.22345463	20.19134852	4.335665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HOXB6	1.100642416	22.22345463	20.19134852	4.335665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR5AU1	1.100642416	22.22345463	20.19134852	4.335665	DPY19L4P1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR10H5	1.100642416	22.22345463	20.19134852	4.335665	XIST	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
C2orf66	1.100642416	22.22345463	20.19134852	4.335665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TRIM49C	1.100642416	22.22345463	20.19134852	4.335665	RPL4P6	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC22A10	13.207709	261.1255919	19.77069543	4.305292	CT45A11P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NKX2-8	2.201284833	43.33573653	19.68656481	4.299139	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MUC5B-AS1	2.201284833	43.33573653	19.68656481	4.299139	GSTA11P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PRG4	34.11991491	666.7036389	19.5400147	4.28836	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
B3GNT6	61.63597531	1203.400068	19.5243129	4.2872	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MAGEC1	6.603854498	128.8960368	19.51830357	4.286756	PPIAP40	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PRR19	4.402569665	85.56030032	19.43417296	4.280524	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
USH1C	13.207709	254.4585555	19.26591172	4.267979	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NMNAT2	7.704496914	147.7859733	19.1817811	4.261665	ENSG00000	2.4894796	0	547.0328046	9.095484	LINC02964	0	1.659653067	893.1261388	9.80272
CA14	2.201284833	42.22456379	19.1817811	4.261665	RPL39P17	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TULP2	1.100642416	21.1122819	19.1817811	4.261665	LINC00689	2.4894796	0	547.0328046	9.095484	RNVU1-8	0	1.659653067	893.1261388	9.80272
LHX4	1.100642416	21.1122819	19.1817811	4.261665	PPP4R2P3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ADAD2	1.100642416	21.1122819	19.1817811	4.261665	LUARIS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PYDC1	1.100642416	21.1122819	19.1817811	4.261665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ACTL9	1.100642416	21.1122819	19.1817811	4.261665	NANOGP9	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	21.1122819	19.1817811	4.261665	LINC01819	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	21.1122819	19.1817811	4.261665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RBP3	1.100642416	21.1122819	19.1817811	4.261665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DNAAF3-AS	1.100642416	21.1122819	19.1817811	4.261665	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GPR149	8.80513933	167.7870824	19.05558517	4.252142	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EEF1A2	40.7237694	772.2650483	18.96349625	4.245153	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CTNNA2	13.207709	250.0138646	18.92938924	4.242556	LINC01807	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
BTNL9	8.80513933	165.564737	18.80319331	4.232906	LINC01031	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TBX15	25.31477557	474.4707563	18.74283874	4.228268	LINC00384	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC5A5	3.301927249	61.11450023	18.50873615	4.210134	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
UTS2B	18.71092108	345.5747195	18.46914527	4.207045	KRTAP25-1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LRRC38	4.402569665	81.11560939	18.42460553	4.203562	OR52I1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NOS2	11.00642416	202.2334371	18.37412716	4.199604	HSD17B3-A:	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NEUROD6	5.503212081	101.1167186	18.37412716	4.199604	CABP7-DT	2.4894796	0	547.0328046	9.095484	MAP3K5-AS:	0	1.659653067	893.1261388	9.80272
FAM53A	3.301927249	60.0033275	18.17221367	4.183662	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IL1F10	1.100642416	20.00110917	18.17221367	4.183662	LINC00945	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR10H2	1.100642416	20.00110917	18.17221367	4.183662	ENSG00000	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

DCAF4L2	1.100642416	20.00110917	18.17221367	4.183662	STEAP1B-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FAM228A	1.100642416	20.00110917	18.17221367	4.183662	PLPPR5-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CRYBA4	1.100642416	20.00110917	18.17221367	4.183662	DPYD-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RD3L	1.100642416	20.00110917	18.17221367	4.183662	ATP13A3-D	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HK2P1	1.100642416	20.00110917	18.17221367	4.183662	RPS15AP6	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FLNC-AS1	1.100642416	20.00110917	18.17221367	4.183662	HOXB-AS3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
USP17L16P	1.100642416	20.00110917	18.17221367	4.183662	PRDM10-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	20.00110917	18.17221367	4.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
LYPD4	1.100642416	20.00110917	18.17221367	4.183662	PHC2-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RCC2	12.10706658	218.9010281	18.08043482	4.176357	HMGB1P31	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PENK	7.704496914	138.8965914	18.02798975	4.172167	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RALYL	6.603854498	118.8954823	18.00395243	4.170242	AK4P3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PCDH19	85.85010847	1543.418924	17.97806609	4.168166	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SYT2	3.301927249	58.89215477	17.8356912	4.156695	RNASEH2B-	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
AGMO	3.301927249	58.89215477	17.8356912	4.156695	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
INSRR	7.704496914	136.674246	17.73954192	4.148897	IFNA13	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCNG1	46.22698148	818.9343031	17.7155046	4.146941	SHROOM3-/	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PHACTR3	2.201284833	38.8910456	17.66742996	4.14302	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
BARX1	2.201284833	38.8910456	17.66742996	4.14302	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KIF2B	2.201284833	38.8910456	17.66742996	4.14302	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CHN1	322.488228	5670.314449	17.58301221	4.13611	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KCNG3	19.81156349	343.352374	17.33090748	4.115275	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MMP17	13.207709	226.6792372	17.16264625	4.1012	C16orf82	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GABRA5	2.201284833	37.77987287	17.16264625	4.1012	KCNH1-IT1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NKX2-2	1.100642416	18.88993643	17.16264625	4.1012	RPS27P19	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EDAR	1.100642416	18.88993643	17.16264625	4.1012	RPL7AP16	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CBLN2	1.100642416	18.88993643	17.16264625	4.1012	TATDN1P1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MIEF2	1.100642416	18.88993643	17.16264625	4.1012	LINC01426	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TUBA3C	1.100642416	18.88993643	17.16264625	4.1012	TJAP1P1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PSG2	1.100642416	18.88993643	17.16264625	4.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KRT9	3.301927249	55.55863657	16.82612377	4.072631	LINC00458	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
VCX	3.301927249	55.55863657	16.82612377	4.072631	ECI2-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FAM180A	4.402569665	73.33740027	16.65786253	4.058131	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC25A34	5.503212081	91.11616398	16.55690579	4.049361	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TMEM108	4.402569665	72.22622754	16.40547068	4.036105	SLC25A5P2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CRABP1	11.00642416	180.0099825	16.35499231	4.031659	TMEM30CP	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SPINK2	2.201284833	35.55752741	16.15307882	4.013737	LINC02939	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR2D3	2.201284833	35.55752741	16.15307882	4.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PF4V1	1.100642416	17.7787637	16.15307882	4.013737	RPSAP76	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CMTM2	1.100642416	17.7787637	16.15307882	4.013737	EIF4A1P7	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CDH4	1.100642416	17.7787637	16.15307882	4.013737	EIF1P2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR4C4P	1.100642416	17.7787637	16.15307882	4.013737	LINC02922	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PNMA6F	1.100642416	17.7787637	16.15307882	4.013737	APOA1-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	17.7787637	16.15307882	4.013737	COP1-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DCTN6-DT	1.100642416	17.7787637	16.15307882	4.013737	NSA2P1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	17.7787637	16.15307882	4.013737	HMGN2P28	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	17.7787637	16.15307882	4.013737	USP17L4	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC3A1	9.905781747	158.8977006	16.04090466	4.003684	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
WNT3A	7.704496914	123.3401732	16.0088549	4.000798	RPS27P8	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR4F28P	3.301927249	52.22511838	15.81655634	3.983364	KCNMA1-A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GABRR1	2.201284833	34.44635467	15.64829511	3.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
B4GALNT2	2.201284833	34.44635467	15.64829511	3.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR2L3	2.201284833	34.44635467	15.64829511	3.967934	BAALC-AS2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PSG3	2.201284833	34.44635467	15.64829511	3.967934	GAPDHP21	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
EPHB6	15.40899383	241.1244827	15.64829511	3.967934	TAAR9	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NSG1	15.40899383	241.1244827	15.64829511	3.967934	LINC01968	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
MGLL	140.8822293	2159.008617	15.32491804	3.937807	PPIAP67	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ABCA4	14.30835141	218.9010281	15.29882946	3.935349	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HRNR	9.905781747	151.1194915	15.25568555	3.931275	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FCGBP	30.81798766	468.9148927	15.21562335	3.927482	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC22A2	7.704496914	116.6731368	15.14351139	3.920628	HLCS-IT1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
BNIP5	2.201284833	33.33518194	15.14351139	3.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RXRG	1.100642416	16.66759097	15.14351139	3.920628	GFOD1-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC28A1	1.100642416	16.66759097	15.14351139	3.920628	PIRAT1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SPATA48	1.100642416	16.66759097	15.14351139	3.920628	RPS15AP29	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GARIN3	1.100642416	16.66759097	15.14351139	3.920628	MATR3P3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HTR1A	1.100642416	16.66759097	15.14351139	3.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TEX19	1.100642416	16.66759097	15.14351139	3.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
C1QTNF12	1.100642416	16.66759097	15.14351139	3.920628	RAD52P1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TEX33	1.100642416	16.66759097	15.14351139	3.920628	RFX5-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR6C65	1.100642416	16.66759097	15.14351139	3.920628	LINC01679	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TRIM64EP	1.100642416	16.66759097	15.14351139	3.920628	LINC02037	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PGAM4	1.100642416	16.66759097	15.14351139	3.920628	MAP3K20-A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
IRGM	1.100642416	16.66759097	15.14351139	3.920628	Y_RNA.112	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
VWFP1	1.100642416	16.66759097	15.14351139	3.920628	RNVU1-2	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
USP17L22	1.100642416	16.66759097	15.14351139	3.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ARMS2	1.100642416	16.66759097	15.14351139	3.920628	RN7SL752P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SINHCAFP2	1.100642416	16.66759097	15.14351139	3.920628	LINC02008	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
ENSG000002	1.100642416	16.66759097	15.14351139	3.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
RNA5SP202	3.301927249	50.00277291	15.14351139	3.920628	RN7SL388P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
HBB	5.503212081	82.22678213	14.94159791	3.901263	HSPA5-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
FOS	156.2912231	2305.683418	14.75248176	3.882886	RPS27P25	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TMEM74B	5.503212081	81.11560939	14.73968442	3.881634	RN7SL608P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
GOLGA6L3P	2.201284833	32.22400921	14.63872768	3.871718	RN7SL864P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC22A8	6.603854498	96.67202764	14.63872768	3.871718	IGKV1D-33	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
THEG5	4.402569665	63.33684569	14.38633582	3.846627	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CNTNAP5	6.603854498	94.44968217	14.30220521	3.838166	RPL9P3	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NTRK2	193.7130653	2754.597201	14.21998665	3.829848	RPS12P27	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PAQR5	33.01927249	468.9148927	14.20124846	3.827946	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CMTM8	17.61027866	250.0138646	14.19704193	3.827518	RN7SL559P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
PTGDR	24.21413316	342.2412013	14.13394397	3.821092	TDGF1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NXPE4	5.503212081	77.7820912	14.13394397	3.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
DGKK	5.503212081	77.7820912	14.13394397	3.821092	HSPA8P9	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
TNNI3	3.301927249	46.66925472	14.13394397	3.821092	CORT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
SLC22A6	3.301927249	46.66925472	14.13394397	3.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
CSHL1	3.301927249	46.66925472	14.13394397	3.821092	NECTIN3-AS	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
THEGL	2.201284833	31.11283648	14.13394397	3.821092	RN7SL57P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
NKX3-2	1.100642416	15.55641824	14.13394397	3.821092	RN7SL741P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
AICDA	1.100642416	15.55641824	14.13394397	3.821092	RPL21P11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
KRT36	1.100642416	15.55641824	14.13394397	3.821092	RPL17P47	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272
OR7A10	1.100642416	15.55641824	14.13394397	3.821092	PDE6B-AS1	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272

PGLYRP2	1.100642416	15.55641824	14.13394397	3.821092	ZBTB20-AS4	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
IZUMO2	1.100642416	15.55641824	14.13394397	3.821092	RN7SL749P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
CAMKV	1.100642416	15.55641824	14.13394397	3.821092	LINC02932	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
OR52K2	1.100642416	15.55641824	14.13394397	3.821092	RPL21P80	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
OR2L5	1.100642416	15.55641824	14.13394397	3.821092	RN7SL558P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
PGGT1BP1	1.100642416	15.55641824	14.13394397	3.821092	RN7SL141P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
ENSG000002	1.100642416	15.55641824	14.13394397	3.821092	KRTAP10-11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
NAV2-AS2	1.100642416	15.55641824	14.13394397	3.821092	LINC00880	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
GPR142	1.100642416	15.55641824	14.13394397	3.821092	RN7SL393P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
TUBGCP5	1.100642416	15.55641824	14.13394397	3.821092	RN7SL65P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
ATP1A2	205.8201318	2883.493238	14.00977257	3.808362	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
CA2	7.704496914	107.7837549	13.98972005	3.806295	RN7SL698P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
FAM81B	6.603854498	92.22733671	13.96568273	3.803814	OR9N1P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
SHROOM1	239.9400468	3347.96344	13.95333328	3.802538	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
TSPAN8	110.0642416	1534.529542	13.94212616	3.801379	RPS2P45	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
ANGPTL4	5.503212081	76.67091847	13.93203048	3.800334	RN7SL380P	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
ERBB4	37.42184215	520.0288383	13.89639869	3.796639	RPL30P11	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
KLF18	8.80513933	122.2290005	13.88155211	3.795097	RPL23P10	2.4894796	0	547.0328046	9.095484	ABCC6P1	0	1.659653067	893.1261388	9.80272	
FSTL5	7.704496914	106.6725822	13.84549613	3.791345	NADK2-AS1	2.4894796	0	547.0328046	9.095484	LGALS17A	0	1.659653067	893.1261388	9.80272	
SELENOTP1	3.301927249	45.55808199	13.79742149	3.786327	FAM13B-AS	2.4894796	0	547.0328046	9.095484	RP9P.1	0	1.659653067	893.1261388	9.80272	
ANGPTL7	2.201284833	30.00166375	13.62916025	3.768625	LINC02458	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
GFY	2.201284833	30.00166375	13.62916025	3.768625	CIBAR1-DT	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
TFF1	9.905781747	134.4519005	13.57307318	3.762676	MGC16275	2.4894796	0	547.0328046	9.095484	ENSG000002	0	1.659653067	893.1261388	9.80272	
C16orf89	27.51606041	371.1316923	13.48782081	3.753585	DYNC1LI2-I	2.4894796	0	547.0328046	9.095484	TFAP2D	0	0.829826533	893.1261388	9.80272	
ASCL1	5.503212081	73.33740027	13.32629003	3.736203	ENSG000002	2.4894796	0	547.0328046	9.095484	UTS2	0	0.829826533	893.1261388	9.80272	
LMX1B	9.905781747	131.1183823	13.2365507	3.726455	ENSG000002	2.4894796	0	547.0328046	9.095484	PRKACA	0	0.829826533	893.1261388	9.80272	
ZNF385B	101.2591023	1338.963141	13.22313857	3.724993	ENSG000002	2.4894796	0	547.0328046	9.095484	HBQ1	0	0.829826533	893.1261388	9.80272	
QPRT	2.201284833	28.89049102	13.12437654	3.714177	LINC02268	2.4894796	0	547.0328046	9.095484	CEBPE	0	0.829826533	893.1261388	9.80272	
CYP2C9	2.201284833	28.89049102	13.12437654	3.714177	PES1P1	2.4894796	0	547.0328046	9.095484	GGTLC2	0	0.829826533	893.1261388	9.80272	
PLA2G2F	2.201284833	28.89049102	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	ACR	0	0.829826533	893.1261388	9.80272	
MAGEB2	1.100642416	14.44524551	13.12437654	3.714177	BCL2L12P1	2.4894796	0	547.0328046	9.095484	TM9SF1	0	0.829826533	893.1261388	9.80272	
SLC5A4	1.100642416	14.44524551	13.12437654	3.714177	NPM1P21	2.4894796	0	547.0328046	9.095484	LUZP4	0	0.829826533	893.1261388	9.80272	
RS1	1.100642416	14.44524551	13.12437654	3.714177	GDNF-AS1	2.4894796	0	547.0328046	9.095484	KCND1	0	0.829826533	893.1261388	9.80272	
ENTREP2	1.100642416	14.44524551	13.12437654	3.714177	MTCO1P30	2.4894796	0	547.0328046	9.095484	BRS3	0	0.829826533	893.1261388	9.80272	
FGF23	1.100642416	14.44524551	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	DKK4	0	0.829826533	893.1261388	9.80272	
GJA8	1.100642416	14.44524551	13.12437654	3.714177	PDCD6-DT	2.4894796	0	547.0328046	9.095484	ECH1	0	0.829826533	893.1261388	9.80272	
C20orf173	1.100642416	14.44524551	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	HNRNPL	0	0.829826533	893.1261388	9.80272	
TRIML1	1.100642416	14.44524551	13.12437654	3.714177	MAST4-IT1	2.4894796	0	547.0328046	9.095484	CGB3	0	0.829826533	893.1261388	9.80272	
ENTPD8	1.100642416	14.44524551	13.12437654	3.714177	TICAM2-AS	2.4894796	0	547.0328046	9.095484	CEACAM4	0	0.829826533	893.1261388	9.80272	
TRAJ7	1.100642416	14.44524551	13.12437654	3.714177	LINC02405	2.4894796	0	547.0328046	9.095484	PIK3R2	0	0.829826533	893.1261388	9.80272	
ASB15-AS1	1.100642416	14.44524551	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	DUS4L	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	14.44524551	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	RCVRN	0	0.829826533	893.1261388	9.80272	
MYO5BP2	1.100642416	14.44524551	13.12437654	3.714177	ZEB2P1	2.4894796	0	547.0328046	9.095484	SNX15	0	0.829826533	893.1261388	9.80272	
MAP9-AS1	1.100642416	14.44524551	13.12437654	3.714177	PPIC-AS1	2.4894796	0	547.0328046	9.095484	PRR4	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	14.44524551	13.12437654	3.714177	MAPK10-AS	2.4894796	0	547.0328046	9.095484	TSPO2	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	14.44524551	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	PCDHB3	0	0.829826533	893.1261388	9.80272	
MUSTN1	1.100642416	14.44524551	13.12437654	3.714177	FZD10-AS1	2.4894796	0	547.0328046	9.095484	IL4	0	0.829826533	893.1261388	9.80272	
DLL3	3.301927249	43.33573653	13.12437654	3.714177	PCDH10-DT	2.4894796	0	547.0328046	9.095484	TLX2	0	0.829826533	893.1261388	9.80272	
S100A8	3.301927249	43.33573653	13.12437654	3.714177	ENSG000002	2.4894796	0	547.0328046	9.095484	MEF2D	0	0.829826533	893.1261388	9.80272	
LNMICC	7.704496914	100.0055458	12.98015262	3.698235	MRPS31P4	2.4894796	0	547.0328046	9.095484	FMO6P	0	0.829826533	893.1261388	9.80272	
KCNH4	5.503212081	71.11505481	12.92246306	3.691809	PURPL	2.4894796	0	547.0328046	9.095484	GHRH	0	0.829826533	893.1261388	9.80272	
PLPP4	42.92505424	551.1416748	12.83962675	3.682531	ENSG000002	2.4894796	0	547.0328046	9.095484	ELOVL3	0	0.829826533	893.1261388	9.80272	
UGT1A1	6.603854498	84.44912759	12.78785407	3.676702	ENSG000002	2.4894796	0	547.0328046	9.095484	CPN1	0	0.829826533	893.1261388	9.80272	
C16orf96	7.704496914	97.78320037	12.69170479	3.665814	ENSG000002	2.4894796	0	547.0328046	9.095484	IFNA6	0	0.829826533	893.1261388	9.80272	
ART3	22.01284833	277.7931829	12.61959283	3.657593	ENSG000002	2.4894796	0	547.0328046	9.095484	NPPB	0	0.829826533	893.1261388	9.80272	
CEP20	4.402569665	55.55863657	12.61959283	3.657593	KRT18P54	2.4894796	0	547.0328046	9.095484	OPN4	0	0.829826533	893.1261388	9.80272	
PTPN5	2.201284833	27.77931829	12.61959283	3.657593	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00029	0	0.829826533	893.1261388	9.80272	
ASB16	2.201284833	27.77931829	12.61959283	3.657593	ENSG000002	2.4894796	0	547.0328046	9.095484	BPIFB9P	0	0.829826533	893.1261388	9.80272	
LRRC74B	2.201284833	27.77931829	12.61959283	3.657593	ENSG000002	2.4894796	0	547.0328046	9.095484	APOBEC3A	0	0.829826533	893.1261388	9.80272	
MIR493HG	2.201284833	27.77931829	12.61959283	3.657593	MTCO1P31	2.4894796	0	547.0328046	9.095484	ELL3	0	0.829826533	893.1261388	9.80272	
ST6GALNAC	73.74304189	930.0515762	12.61205874	3.656732	SCARNA21I	2.4894796	0	547.0328046	9.095484	KLK8	0	0.829826533	893.1261388	9.80272	
OTOF	7.704496914	96.67202764	12.54748087	3.649326	RNA5SP497	2.4894796	0	547.0328046	9.095484	ACE2	0	0.829826533	893.1261388	9.80272	
PLEKHG4	15.40899383	192.2328825	12.47536891	3.641011	RNA5SP466	2.4894796	0	547.0328046	9.095484	FUT5	0	0.829826533	893.1261388	9.80272	
FSHR	3.301927249	41.11339106	12.45133159	3.638228	RNU6ATAC	2.4894796	0	547.0328046	9.095484	LILRB2	0	0.829826533	893.1261388	9.80272	
ITGA10	80.34689639	1000.055458	12.44672169	3.637694	Y_RNA.124	2.4894796	0	547.0328046	9.095484	CLUHP3	0	0.829826533	893.1261388	9.80272	
SPTB	90.25267814	1115.617422	12.36104507	3.627729	RNU7-151P	2.4894796	0	547.0328046	9.095484	FTHL17	0	0.829826533	893.1261388	9.80272	
OPRK1	166.1970049	2051.224862	12.34212893	3.625519	RNU4-60P	2.4894796	0	547.0328046	9.095484	ADAM30	0	0.829826533	893.1261388	9.80272	
GPX2	15.40899383	190.0105371	12.33114499	3.624235	RAD21-AS1	2.4894796	0	547.0328046	9.095484	PRH2	0	0.829826533	893.1261388	9.80272	
SP5	29.71734524	365.5758286	12.30176605	3.620794	ENSG000002	2.4894796	0	547.0328046	9.095484	CBLIF	0	0.829826533	893.1261388	9.80272	
NRXN1	106.7623144	1296.738578	12.14603285	3.602413	ENSG000002	2.4894796	0	547.0328046	9.095484	OCM2	0	0.829826533	893.1261388	9.80272	
WNT16	12.10706658	146.6748005	12.11480911	3.5987	TPTE2P1	2.4894796	0	547.0328046	9.095484	C7orf25	0	0.829826533	893.1261388	9.80272	
PRAMEF15	4.402569665	53.33629111	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	CSH1	0	0.829826533	893.1261388	9.80272	
CDR1	2.201284833	26.66814555	12.11480911	3.5987	RBM12B-DT	2.4894796	0	547.0328046	9.095484	BLK	0	0.829826533	893.1261388	9.80272	
TREML2	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	PDE6H	0	0.829826533	893.1261388	9.80272	
CD70	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	RNF113B	0	0.829826533	893.1261388	9.80272	
CPLX2	1.100642416	13.33407278	12.11480911	3.5987	CLDN23	2.4894796	0	547.0328046	9.095484	FITM1	0	0.829826533	893.1261388	9.80272	
S100A12	1.100642416	13.33407278	12.11480911	3.5987	LINC01863	2.4894796	0	547.0328046	9.095484	FAM181A	0	0.829826533	893.1261388	9.80272	
MS4A5	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	SLC25A47	0	0.829826533	893.1261388	9.80272	
OR5AP2	1.100642416	13.33407278	12.11480911	3.5987	TENM2-AS1	2.4894796	0	547.0328046	9.095484	RLBP1	0	0.829826533	893.1261388	9.80272	
GARIN5B	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	SH3GL3	0	0.829826533	893.1261388	9.80272	
CGB7	1.100642416	13.33407278	12.11480911	3.5987	ANK3-DT	2.4894796	0	547.0328046	9.095484	SLC6A3	0	0.829826533	893.1261388	9.80272	
OR5L2	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	PADI3	0	0.829826533	893.1261388	9.80272	
FNTAP1	1.100642416	13.33407278	12.11480911	3.5987	MIR151A	2.4894796	0	547.0328046	9.095484	PADI1	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	ARHGEF19	0	0.829826533	893.1261388	9.80272	
MALT1-AS1	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	AQP10	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	CPXCR1	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	13.33407278	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	NSDHL	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	40.00221833	12.11480911	3.5987	ENSG000002	2.4894796	0	547.0328046	9.095484	SCP2D1-AS1	0	0.829826533	893.1261388	9.80272	
SCUBE2	1660.869406	20083.33595	12.09206207	3.595988	ENSG000002	2.4894796	0	547.0328046	9.095484	CDC42EP2	0	0.829826533	893.1261388	9.80272	
GRIN3A	22.01284833	265.5702828	12.06433074	3.592676	SIGLEC10-A	2.4894796	0	547.0328046	9.095484	FXYD4	0	0.829826533	893.1261388	9.80272	
GRID2	15.40899383	184.4546734	11.9705852	3.581422	TRIM53CP	2.4894796	0	547.0328046	9.095484	OLAH	0	0.829826533	893.1261388	9.80272	
NECAB1	7.704496914	92.22733671	11.9705852	3.581422	ENSG000002	2.4894796	0	547.0328046	9.095484	ACMSD	0	0.829826533	893.1261388	9.80272	
VIM-AS1	8.80513933	104.4502368	11.86241726	3.568326	ENSG000002	2.4894796	0	547.0328046	9.095484	MAGEA8	0	0.829826533	893.1261388	9.80272	
FAM184B	6.603854498	77.7820912	11.77828664	3.558058	RSF1-IT2	2.4894796	0	547.0328046	9.095484	CDCP2	0	0.829826533	893.1261388	9.80272	
IRS4	6.603854498	77.7820912	11.77828664	3.558058	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM86C1P	0	0.829826533	893.1261388	9.80272	
MYLK2	3.301927249	38.8910456	11.77828664	3.558058	LINC02739	2.4894796	0	547.0328046	9.095484	SLC5A11	0	0.829826533	893.1261388	9.80272	
TGM7	4.402569665	51.11394565	11.6100254	3.537299	RBMXP3	2.4894796	0	547.0328046	9.095484	LRRC56	0	0.829826533	893.1261388	9.80272	
KRTAP5-7	4.402569665	51.11394565	11.6100254	3.537299	STX17-DT	2.4894796	0	547.0328046	9.095484	RNASEK-C1	0	0.829826533	893.1261388	9.80272	
SCN4A	2.201284833	25.55697282	11.6100254	3.537299	HTD2	2.4894796	0	547.0328046	9.095484	MEIOB	0	0.829826533	893.1261388	9.80272	
SLCO6A1	2.201284833	25.55697282	11.6100254	3.537299	ENSG000002	2.4894796	0	547.0328046	9.095484	KCNT2	0	0.829826533	893.1261388	9.80272	
HCG27	2.201284833	25.55697282	11.6100254	3.537299	SMIM35	2.4894796	0	547.0328046	9.095484	KCNJ9	0	0.829826533	893.1261388	9.80272	

HEMGN	3.301927249	37.77987287	11.44176416	3.516238	CYCSP25	2.4894796	0	547.0328046	9.095484	LINC01931	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	37.77987287	11.44176416	3.516238	ENSG000002	2.4894796	0	547.0328046	9.095484	LENEP	0	0.829826533	893.1261388	9.80272
CHRNA4	7.704496914	87.78264578	11.39368952	3.510163	LINC02684	2.4894796	0	547.0328046	9.095484	C4orf36	0	0.829826533	893.1261388	9.80272
C2CD4C	7.704496914	87.78264578	11.39368952	3.510163	ENSG000002	2.4894796	0	547.0328046	9.095484	PPBP	0	0.829826533	893.1261388	9.80272
ZIC5	14.30835141	162.2312188	11.33821879	3.503122	LINC02389	2.4894796	0	547.0328046	9.095484	CSF2	0	0.829826533	893.1261388	9.80272
KCNK13	11.00642416	124.4513459	11.30715517	3.499164	LINC02747	2.4894796	0	547.0328046	9.095484	H2AC1	0	0.829826533	893.1261388	9.80272
GRM6	5.503212081	62.22567296	11.30715517	3.499164	ENSG000002	2.4894796	0	547.0328046	9.095484	SEPTIN7P5	0	0.829826533	893.1261388	9.80272
DUSP2	6.603854498	74.44857301	11.27350293	3.494864	PSMC1P9	2.4894796	0	547.0328046	9.095484	PRKACG	0	0.829826533	893.1261388	9.80272
EBF3	23.11349074	257.7920737	11.15331633	3.479401	SBNO1-AS1	2.4894796	0	547.0328046	9.095484	GPR101	0	0.829826533	893.1261388	9.80272
ASIC4	2.201284833	24.44580009	11.10524169	3.473169	LINC00944	2.4894796	0	547.0328046	9.095484	CLDN2	0	0.829826533	893.1261388	9.80272
FBXW12	2.201284833	24.44580009	11.10524169	3.473169	NIFKP3	2.4894796	0	547.0328046	9.095484	MBL2	0	0.829826533	893.1261388	9.80272
PAX7	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	DRGX	0	0.829826533	893.1261388	9.80272
PRB2	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	BORCS5	0	0.829826533	893.1261388	9.80272
AIPL1	1.100642416	12.22290005	11.10524169	3.473169	TRAV1-2	2.4894796	0	547.0328046	9.095484	LRTM2	0	0.829826533	893.1261388	9.80272
UGT2B28	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	OR10A5	0	0.829826533	893.1261388	9.80272
NMBR	1.100642416	12.22290005	11.10524169	3.473169	LINC02955	2.4894796	0	547.0328046	9.095484	OR5P1P	0	0.829826533	893.1261388	9.80272
TBC1D21	1.100642416	12.22290005	11.10524169	3.473169	RARS1P1	2.4894796	0	547.0328046	9.095484	ATMIN	0	0.829826533	893.1261388	9.80272
GBX2	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	C16orf46	0	0.829826533	893.1261388	9.80272
PRL	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	CLEC3A	0	0.829826533	893.1261388	9.80272
GINS3	1.100642416	12.22290005	11.10524169	3.473169	LINC02293	2.4894796	0	547.0328046	9.095484	ANKRD40CI	0	0.829826533	893.1261388	9.80272
ACP7	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	C16orf92	0	0.829826533	893.1261388	9.80272
ZACN	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	CDC42EP5	0	0.829826533	893.1261388	9.80272
ZAR1L	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	TOX-DT	0	0.829826533	893.1261388	9.80272
SNORD46	1.100642416	12.22290005	11.10524169	3.473169	LRIG3-DT	2.4894796	0	547.0328046	9.095484	ZNF355P	0	0.829826533	893.1261388	9.80272
NANOGNB	1.100642416	12.22290005	11.10524169	3.473169	BICD1-AS1	2.4894796	0	547.0328046	9.095484	POLR2J3	0	0.829826533	893.1261388	9.80272
FOXI3	1.100642416	12.22290005	11.10524169	3.473169	LINC02356	2.4894796	0	547.0328046	9.095484	CRYGA	0	0.829826533	893.1261388	9.80272
CHCHD3P3	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	TPTE2P5	0	0.829826533	893.1261388	9.80272
KRTAP10-9	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	OR6F1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	12.22290005	11.10524169	3.473169	PRDM4-AS1	2.4894796	0	547.0328046	9.095484	CT55	0	0.829826533	893.1261388	9.80272
OR5H8	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	SLN	0	0.829826533	893.1261388	9.80272
EIF4A1P4	1.100642416	12.22290005	11.10524169	3.473169	LINC01404	2.4894796	0	547.0328046	9.095484	NDUFA3	0	0.829826533	893.1261388	9.80272
GAGE2E	1.100642416	12.22290005	11.10524169	3.473169	POLR2KP1	2.4894796	0	547.0328046	9.095484	TEX13B	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	12.22290005	11.10524169	3.473169	ENSG000002	2.4894796	0	547.0328046	9.095484	SMR3B	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	12.22290005	11.10524169	3.473169	C17orf49	2.4894796	0	547.0328046	9.095484	KRT38	0	0.829826533	893.1261388	9.80272
ZBBX	40.7237694	448.9137835	11.02338487	3.462495	ENSG000002	2.4894796	0	547.0328046	9.095484	XAGE3	0	0.829826533	893.1261388	9.80272
FGFR3	41.82441182	455.5808199	10.89270118	3.44529	PTCD2P1	2.4894796	0	547.0328046	9.095484	SPACA5	0	0.829826533	893.1261388	9.80272
SYN3	9.905781747	107.7837549	10.88089337	3.443725	LINC00640	2.4894796	0	547.0328046	9.095484	SPATA46	0	0.829826533	893.1261388	9.80272
GRIK1	155.1905807	1684.537861	10.85463985	3.44024	ENSG000002	2.4894796	0	547.0328046	9.095484	PRND	0	0.829826533	893.1261388	9.80272
SULT1A2	4.402569665	47.78042745	10.85284983	3.440002	ENSG000002	2.4894796	0	547.0328046	9.095484	REG1B	0	0.829826533	893.1261388	9.80272
LCNL1	4.402569665	47.78042745	10.85284983	3.440002	ENSG000002	2.4894796	0	547.0328046	9.095484	HMGN1P35	0	0.829826533	893.1261388	9.80272
UGT2B17	12.10706658	131.1183823	10.82990512	3.436949	RNASE11-A	2.4894796	0	547.0328046	9.095484	OR10V1	0	0.829826533	893.1261388	9.80272
AFP	3.301927249	35.55752741	10.76871921	3.428775	SERPINE4P	2.4894796	0	547.0328046	9.095484	ACTE1P	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	35.55752741	10.76871921	3.428775	KIF26A-DT	2.4894796	0	547.0328046	9.095484	RXFP4	0	0.829826533	893.1261388	9.80272
PRAC2	18.71092108	201.1222644	10.74892377	3.42612	ENSG000002	2.4894796	0	547.0328046	9.095484	SPATA3	0	0.829826533	893.1261388	9.80272
MSX1	5.503212081	58.89215477	10.70141472	3.41973	DUXA	2.4894796	0	547.0328046	9.095484	PPIAP7	0	0.829826533	893.1261388	9.80272
PDE1A	50.62955115	541.1411202	10.68824645	3.417953	COX5AP2	2.4894796	0	547.0328046	9.095484	OR4B1	0	0.829826533	893.1261388	9.80272
ALK	7.704496914	82.22678213	10.67256993	3.415836	ENSG000002	2.4894796	0	547.0328046	9.095484	PRM1	0	0.829826533	893.1261388	9.80272
GALNT15	20.91220591	222.2345463	10.62702554	3.409666	ENSG000002	2.4894796	0	547.0328046	9.095484	OR52B3P	0	0.829826533	893.1261388	9.80272
SYT15-AS1	4.402569665	46.66925472	10.60045798	3.406055	ENSG000002	2.4894796	0	547.0328046	9.095484	HMGB4	0	0.829826533	893.1261388	9.80272
AQP7	2.201284833	23.33462736	10.60045798	3.406055	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
FAM149B1P1	2.201284833	23.33462736	10.60045798	3.406055	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
CXXC4	13.207709	138.8965914	10.51632736	3.394559	ENSG000002	2.4894796	0	547.0328046	9.095484	CLK2	0	0.829826533	893.1261388	9.80272
AMIGO2	175.0021442	1838.990871	10.50839051	3.39347	ENSG000002	2.4894796	0	547.0328046	9.095484	OR4X1	0	0.829826533	893.1261388	9.80272
ENHO	3.301927249	34.44635467	10.43219674	3.382971	MTCYBP23	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
MORN5	3.301927249	34.44635467	10.43219674	3.382971	ENSG000002	2.4894796	0	547.0328046	9.095484	PRDM16-DT	0	0.829826533	893.1261388	9.80272
KRTAP5-9	3.301927249	34.44635467	10.43219674	3.382971	ENSG000002	2.4894796	0	547.0328046	9.095484	SPACA4	0	0.829826533	893.1261388	9.80272
KCNJ6	8.80513933	91.11616398	10.34806612	3.371289	EIF5-DT	2.4894796	0	547.0328046	9.095484	DEFB4B	0	0.829826533	893.1261388	9.80272
MUC7	4.402569665	45.55808199	10.34806612	3.371289	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00469	0	0.829826533	893.1261388	9.80272
KCNJ14	4.402569665	45.55808199	10.34806612	3.371289	HERC2P10	2.4894796	0	547.0328046	9.095484	CBX3P1	0	0.829826533	893.1261388	9.80272
OR13C2	4.402569665	45.55808199	10.34806612	3.371289	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM187B	0	0.829826533	893.1261388	9.80272
FGFR4	24.21413316	250.0138646	10.3251214	3.368087	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
APOL4	136.4796596	1408.967023	10.3236411	3.36788	ENSG000002	2.4894796	0	547.0328046	9.095484	TEX44	0	0.829826533	893.1261388	9.80272
GPR156	9.905781747	102.2278913	10.32002258	3.367374	ENSG000002	2.4894796	0	547.0328046	9.095484	RPS2P2	0	0.829826533	893.1261388	9.80272
ITIH1	5.503212081	56.6698093	10.29758775	3.364235	ENSG000002	2.4894796	0	547.0328046	9.095484	TNP2	0	0.829826533	893.1261388	9.80272
KIF4B	6.603854498	67.78153662	10.2639355	3.359512	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
KIF26B	8.80513933	90.00499125	10.22187019	3.353587	ENSG000002	2.4894796	0	547.0328046	9.095484	LGALS7B	0	0.829826533	893.1261388	9.80272
MATN3	16.50963624	167.7870824	10.16297876	3.345251	CDH13-AS2	2.4894796	0	547.0328046	9.095484	MTUS2-AS1	0	0.829826533	893.1261388	9.80272
CNR1	4.402569665	44.44690926	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	CYP11B2	0	0.829826533	893.1261388	9.80272
PIMREG	4.402569665	44.44690926	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	LSMEM2	0	0.829826533	893.1261388	9.80272
SULT1E1	2.201284833	22.22345463	10.09567426	3.335665	LCMT1-AS1	2.4894796	0	547.0328046	9.095484	TPPP2	0	0.829826533	893.1261388	9.80272
PANX3	2.201284833	22.22345463	10.09567426	3.335665	FTLP14	2.4894796	0	547.0328046	9.095484	ACER2P1	0	0.829826533	893.1261388	9.80272
CMTM5	2.201284833	22.22345463	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OR6K6	0	0.829826533	893.1261388	9.80272
FSD2	2.201284833	22.22345463	10.09567426	3.335665	AP1AR-DT	2.4894796	0	547.0328046	9.095484	OR10Q1	0	0.829826533	893.1261388	9.80272
P2RX5-TAX1	2.201284833	22.22345463	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OR2A4	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	22.22345463	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	ADIPOQ	0	0.829826533	893.1261388	9.80272
MIR499B	2.201284833	22.22345463	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
DKKL1	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OR6B2	0	0.829826533	893.1261388	9.80272
SFTPA1	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	CCNYL2	0	0.829826533	893.1261388	9.80272
CSN2	1.100642416	11.11172731	10.09567426	3.335665	DOCK9-DT	2.4894796	0	547.0328046	9.095484	NDN	0	0.829826533	893.1261388	9.80272
ADCYAP1	1.100642416	11.11172731	10.09567426	3.335665	MPHOSPH6	2.4894796	0	547.0328046	9.095484	FAM230E	0	0.829826533	893.1261388	9.80272
SERPINA9	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	COL18A1	0	0.829826533	893.1261388	9.80272
GPR152	1.100642416	11.11172731	10.09567426	3.335665	TNRC6B-DT	2.4894796	0	547.0328046	9.095484	RPS27AP20	0	0.829826533	893.1261388	9.80272
EIF4E1B	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OR1G1	0	0.829826533	893.1261388	9.80272
GPR139	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OTOP2	0	0.829826533	893.1261388	9.80272
PRSS57	1.100642416	11.11172731	10.09567426	3.335665	EFCAB6-DT	2.4894796	0	547.0328046	9.095484	ZBTB8OSP1	0	0.829826533	893.1261388	9.80272
TMEM105	1.100642416	11.11172731	10.09567426	3.335665	MAFTRR	2.4894796	0	547.0328046	9.095484	RPL21P132	0	0.829826533	893.1261388	9.80272
SLC36A3	1.100642416	11.11172731	10.09567426	3.335665	PSMD7-DT	2.4894796	0	547.0328046	9.095484	DSCR4	0	0.829826533	893.1261388	9.80272
ACTN4P1	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	UMODL1-AS	0	0.829826533	893.1261388	9.80272
B3GALT1-AS	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	RPL23AP38	0	0.829826533	893.1261388	9.80272
NRIP3-DT	1.100642416	11.11172731	10.09567426	3.335665	AGK-DT	2.4894796	0	547.0328046	9.095484	GAST	0	0.829826533	893.1261388	9.80272
KLF14	1.100642416	11.11172731	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM167A-AS	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	11.11172731	10.09567426	3.335665	CYLD-AS1	2.4894796	0	547.0328046	9.095484	TRARG1	0	0.829826533	893.1261388	9.80272
ABCC12	3.301927249	33.33518194	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	CYCSP45	0	0.829826533	893.1261388	9.80272
SIGLEC16	3.301927249	33.33518194	10.09567426	3.335665	MTND5P33	2.4894796	0	547.0328046	9.095484	SPDYE16	0	0.829826533	893.1261388	9.80272
KRT1	3.301927249	33.33518194	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	MYADML2	0	0.829826533	893.1261388	9.80272
CFAP77	3.301927249	33.33518194	10.09567426	3.335665	ENSG000002	2.4894796	0	547.0328046	9.095484	OR2V1	0	0.829826533	893.1261388	9.80272
SCGB1D2	20.91220591	208.9004735	9.989404007	3.320399	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01405	0	0.829826533	893.1261388	9.80272
TRIM45	195.9143501	1954.552835	9.976567993	3.318544	ENSG000002	2.4894796	0	547.0328046	9.095484	TMEM210	0	0.829826533	893.1261388	9.80272
ADD2	5.503212081	54.44746384	9.893760777	3.306519	EFCAB13-D	2.4894796	0	547.0328046	9.095484	FFAR3	0	0.829826533	893.1261388	9.80272
C5AR2	5.503212081	54.44746384	9.893760777	3.306519	MIR378G	2.4894796	0	547.0328046	9.095484	LINC00839	0	0.829826533	893.1261388	9.80272
ZSCAN1	4.402569665	43.33573653	9.843282406	3.299139	ENSG000002	2.4894796	0	547.0328046	9.095484	KRT18P14	0	0.829826533	893.1261388	9.80272

PLCD4	15.40899383	151.1194915	9.807226426	3.293845	ENSG000002	2.4894796	0	547.0328046	9.095484	LCE5A	0	0.829826533	893.1261388	9.80272
KCNMB4	7.704496914	75.55974574	9.807226426	3.293845	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM86MP	0	0.829826533	893.1261388	9.80272
APLP1	6.603854498	64.44801842	9.759151787	3.286756	MIR4258	2.4894796	0	547.0328046	9.095484	SERTAD4BP	0	0.829826533	893.1261388	9.80272
A4GNT	3.301927249	32.22400921	9.759151787	3.286756	MIR378D2H	2.4894796	0	547.0328046	9.095484	CROCCP5	0	0.829826533	893.1261388	9.80272
BEAN1	3.301927249	32.22400921	9.759151787	3.286756	KRT18P8	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
RBMXP2	3.301927249	32.22400921	9.759151787	3.286756	RN7SL204P	2.4894796	0	547.0328046	9.095484	OR5D3P	0	0.829826533	893.1261388	9.80272
SEZ6L2	303.7773069	2950.163602	9.711599698	3.279709	ERVFRD-3	2.4894796	0	547.0328046	9.095484	KRTAP6-2	0	0.829826533	893.1261388	9.80272
COCH	466.6723845	4521.361844	9.688513815	3.276275	MIR3192	2.4894796	0	547.0328046	9.095484	OR13C8	0	0.829826533	893.1261388	9.80272
CHD5	18.71092108	181.1211552	9.679970028	3.275003	SNORD53	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
SCGB2A1	15.40899383	148.897146	9.663002508	3.272472	MIR142HG	2.4894796	0	547.0328046	9.095484	RPL7P48	0	0.829826533	893.1261388	9.80272
DUSP15	12.10706658	116.6731368	9.636779978	3.268551	ENSG000002	2.4894796	0	547.0328046	9.095484	FOXD4L3	0	0.829826533	893.1261388	9.80272
NKX6-1	12.10706658	116.6731368	9.636779978	3.268551	ENSG000002	2.4894796	0	547.0328046	9.095484	TSPY13P	0	0.829826533	893.1261388	9.80272
DNAAF3	14.30835141	137.7854187	9.629720066	3.267494	ENSG000002	2.4894796	0	547.0328046	9.095484	OR52B6	0	0.829826533	893.1261388	9.80272
C2CD4A	6.603854498	63.33684569	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	KRTAP10-8	0	0.829826533	893.1261388	9.80272
ACTL6B	4.402569665	42.22456379	9.590890549	3.261665	RN7SL605P	2.4894796	0	547.0328046	9.095484	TMEM72	0	0.829826533	893.1261388	9.80272
CATSPER3	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
DEFB125	2.201284833	21.1122819	9.590890549	3.261665	LINC01387	2.4894796	0	547.0328046	9.095484	PLA2G2C	0	0.829826533	893.1261388	9.80272
AWAT1	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	KCTD9P3	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	HNRNPA1P6	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	SNHG28	0	0.829826533	893.1261388	9.80272
GNG10	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	TREML4	0	0.829826533	893.1261388	9.80272
MIF4GD-DT	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM230G	0	0.829826533	893.1261388	9.80272
NAPA-AS1	2.201284833	21.1122819	9.590890549	3.261665	ENSG000002	2.4894796	0	547.0328046	9.095484	IGFL1	0	0.829826533	893.1261388	9.80272
HMGCS2	82.54818122	791.1549848	9.5841601	3.260652	ENSG000002	2.4894796	0	547.0328046	9.095484	OR6N2	0	0.829826533	893.1261388	9.80272
DGKQ	51.73019357	495.5830382	9.58015047	3.260048	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
SMCO3	17.61027866	167.7870824	9.527792585	3.252142	LINC01842	2.4894796	0	547.0328046	9.095484	ZNF177	0	0.829826533	893.1261388	9.80272
MTMR7	7.704496914	73.33740027	9.51877859	3.250776	ENSG000002	2.4894796	0	547.0328046	9.095484	MAGEB16	0	0.829826533	893.1261388	9.80272
PARN	11.00642416	104.4502368	9.489933807	3.246398	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00994	0	0.829826533	893.1261388	9.80272
RAB26	5.503212081	52.22511838	9.489933807	3.246398	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00943	0	0.829826533	893.1261388	9.80272
FOXB2	8.80513933	83.33795486	9.464694621	3.242556	ENSG000002	2.4894796	0	547.0328046	9.095484	ZNF676	0	0.829826533	893.1261388	9.80272
COL20A1	6.603854498	62.22567296	9.422629312	3.23613	ENSG000002	2.4894796	0	547.0328046	9.095484	OR10J1	0	0.829826533	893.1261388	9.80272
ADGRF3	6.603854498	62.22567296	9.422629312	3.23613	ENSG000002	2.4894796	0	547.0328046	9.095484	THEM5	0	0.829826533	893.1261388	9.80272
SMIM1	6.603854498	62.22567296	9.422629312	3.23613	SEC24AP1	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
PCK1	3.301927249	31.11283648	9.422629312	3.23613	SETBP1-DT	2.4894796	0	547.0328046	9.095484	LUADT1	0	0.829826533	893.1261388	9.80272
IFNA21	3.301927249	31.11283648	9.422629312	3.23613	HEATR6-DT	2.4894796	0	547.0328046	9.095484	LCE1B	0	0.829826533	893.1261388	9.80272
OR13C4	3.301927249	31.11283648	9.422629312	3.23613	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
CATSPERD	3.301927249	31.11283648	9.422629312	3.23613	PTPRS-AS1	2.4894796	0	547.0328046	9.095484	ANKRD36B	0	0.829826533	893.1261388	9.80272
TLCD4	47.3276239	442.2467471	9.344368271	3.224097	ENSG000002	2.4894796	0	547.0328046	9.095484	NPSR1-AS1	0	0.829826533	893.1261388	9.80272
EXD1	4.402569665	41.11339106	9.338498693	3.223191	ASXL3-DT	2.4894796	0	547.0328046	9.095484	GUCA2A	0	0.829826533	893.1261388	9.80272
SLC7A2	353.3062156	3285.737767	9.299971587	3.217226	ENSG000002	2.4894796	0	547.0328046	9.095484	OR7E85BP	0	0.829826533	893.1261388	9.80272
MIR3185	16.50963624	153.3418369	9.288020321	3.215371	ENSG000002	2.4894796	0	547.0328046	9.095484	GALP	0	0.829826533	893.1261388	9.80272
TMC1	26.41541799	244.4580009	9.254368074	3.210134	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
EGFL7	88.0513933	807.8225758	9.174443986	3.197621	ENSG000002	2.4894796	0	547.0328046	9.095484	CBX3P7	0	0.829826533	893.1261388	9.80272
LRRC31	14.30835141	130.0072096	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	DSCR8	0	0.829826533	893.1261388	9.80272
SLC26A1	9.905781747	90.00499125	9.086106836	3.183662	ZNF114-AS1	2.4894796	0	547.0328046	9.095484	CYP2A7P2	0	0.829826533	893.1261388	9.80272
CHRM3	5.503212081	50.00277291	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	PABPC1P2	0	0.829826533	893.1261388	9.80272
MEGF10	36.32119974	330.0183012	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000001	0	0.829826533	893.1261388	9.80272
PTGDS	17.61027866	160.0088733	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	LRRC10	0	0.829826533	893.1261388	9.80272
GPA33	3.301927249	30.00166375	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR345	0	0.829826533	893.1261388	9.80272
APLN	3.301927249	30.00166375	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA	0	0.829826533	893.1261388	9.80272
MVP-DT	3.301927249	30.00166375	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-50P	0	0.829826533	893.1261388	9.80272
TROAP-AS1	3.301927249	30.00166375	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU1-58P	0	0.829826533	893.1261388	9.80272
SLC25A31	2.201284833	20.00110917	9.086106836	3.183662	ARHGAP19-	2.4894796	0	547.0328046	9.095484	RNU6-858P	0	0.829826533	893.1261388	9.80272
TBXT	2.201284833	20.00110917	9.086106836	3.183662	SPACA6-AS	2.4894796	0	547.0328046	9.095484	RNA5SP183	0	0.829826533	893.1261388	9.80272
KCTD19	2.201284833	20.00110917	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU4-39P	0	0.829826533	893.1261388	9.80272
FAM47B	2.201284833	20.00110917	9.086106836	3.183662	ZNF559-ZNI	2.4894796	0	547.0328046	9.095484	RNA5SP432	0	0.829826533	893.1261388	9.80272
TRAV19	2.201284833	20.00110917	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	VTRNA3-1P	0	0.829826533	893.1261388	9.80272
C19orf73	2.201284833	20.00110917	9.086106836	3.183662	NAV2-AS6	2.4894796	0	547.0328046	9.095484	Y_RNA.4	0	0.829826533	893.1261388	9.80272
EPC1-AS2	2.201284833	20.00110917	9.086106836	3.183662	CD2AP-DT	2.4894796	0	547.0328046	9.095484	Y_RNA.6	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	20.00110917	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU4-15P	0	0.829826533	893.1261388	9.80272
OR1D3P	2.201284833	20.00110917	9.086106836	3.183662	MAP2K5-DT	2.4894796	0	547.0328046	9.095484	RNA5SP226	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	20.00110917	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-37P	0	0.829826533	893.1261388	9.80272
LINC02961	2.201284833	20.00110917	9.086106836	3.183662	RNPC3P1	2.4894796	0	547.0328046	9.095484	RNU6-1272P	0	0.829826533	893.1261388	9.80272
NOX1	1.100642416	10.00055458	9.086106836	3.183662	ITGB8-AS1	2.4894796	0	547.0328046	9.095484	Y_RNA.8	0	0.829826533	893.1261388	9.80272
RDH8	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.9	0	0.829826533	893.1261388	9.80272
AQP8	1.100642416	10.00055458	9.086106836	3.183662	MMP28	2.4894796	0	547.0328046	9.095484	RNU6-227P	0	0.829826533	893.1261388	9.80272
PRAMEF1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU1-134P	0	0.829826533	893.1261388	9.80272
ARG1	1.100642416	10.00055458	9.086106836	3.183662	ATP2B1-AS1	2.4894796	0	547.0328046	9.095484	RNA5SP150	0	0.829826533	893.1261388	9.80272
HOXB5	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP358	0	0.829826533	893.1261388	9.80272
ART1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP375	0	0.829826533	893.1261388	9.80272
HCRTR2	1.100642416	10.00055458	9.086106836	3.183662	SMIM32	2.4894796	0	547.0328046	9.095484	RNU1-72P	0	0.829826533	893.1261388	9.80272
IFNA5	1.100642416	10.00055458	9.086106836	3.183662	SNORD11B	2.4894796	0	547.0328046	9.095484	RNU6-490P	0	0.829826533	893.1261388	9.80272
HTR5A	1.100642416	10.00055458	9.086106836	3.183662	JARID2-DT	2.4894796	0	547.0328046	9.095484	RNU6-1120P	0	0.829826533	893.1261388	9.80272
PRSS37	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.14	0	0.829826533	893.1261388	9.80272
GON7	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORD114-1	0	0.829826533	893.1261388	9.80272
OR14C36	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.15	0	0.829826533	893.1261388	9.80272
DYNAP	1.100642416	10.00055458	9.086106836	3.183662	U7	2.4894796	0	547.0328046	9.095484	Y_RNA.19	0	0.829826533	893.1261388	9.80272
OR6C2	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-940P	0	0.829826533	893.1261388	9.80272
CYP8B1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1255P	0	0.829826533	893.1261388	9.80272
OR56B4	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU5E-8P	0	0.829826533	893.1261388	9.80272
ARGFX	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.24	0	0.829826533	893.1261388	9.80272
CNR2	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1214P	0	0.829826533	893.1261388	9.80272
GRXCR1	1.100642416	10.00055458	9.086106836	3.183662	RN7SL760P	2.4894796	0	547.0328046	9.095484	SNORD116-1	0	0.829826533	893.1261388	9.80272
KDM4E	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP93	0	0.829826533	893.1261388	9.80272
ANKRD34C	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP103	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP180	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP234	0	0.829826533	893.1261388	9.80272
SCIRT	1.100642416	10.00055458	9.086106836	3.183662	GCAWKR	2.4894796	0	547.0328046	9.095484	Y_RNA.29	0	0.829826533	893.1261388	9.80272
KLRF2	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORD115-2	0	0.829826533	893.1261388	9.80272
TGFB3-AS1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-324P	0	0.829826533	893.1261388	9.80272
ERVV-2	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.35	0	0.829826533	893.1261388	9.80272
OR4E1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP245	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNY1P12	0	0.829826533	893.1261388	9.80272
TALAM1	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-353P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	10.00055458	9.086106836	3.183662	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-115P	0	0.829826533	893.1261388	9.80272
KIAA0319	19.81156349	177.787637	8.973932678	3.16574	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP118	0	0.829826533	893.1261388	9.80272
SDK2	774.8522611	6949.274262	8.968515176	3.164869	ARHGEF2-A	2.4894796	0	547.0328046	9.095484	RNU4-38P	0	0.829826533	893.1261388	9.80272
CDHR1	23.11349074	205.5669553	8.893808279	3.152801	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP69	0	0.829826533	893.1261388	9.80272
CBARP	16.50963624	146.6748005	8.884193351	3.151241	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP140	0	0.829826533	893.1261388	9.80272
OR1J2	5.503212081	48.89160018	8.884193351	3.151241	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OTOG	9.905781747	87.78264578	8.861758519	3.147593	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.42	0	0.829826533	893.1261388	9.80272

VIT	11.00642416	96.67202764	8.783236608	3.134753	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA63C	0	0.829826533	893.1261388	9.80272
C6orf118	6.603854498	57.78098203	8.749584361	3.129214	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-593P	0	0.829826533	893.1261388	9.80272
SLC5A9	3.301927249	28.89049102	8.749584361	3.129214	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU4-16P	0	0.829826533	893.1261388	9.80272
TUBA4B	3.301927249	28.89049102	8.749584361	3.129214	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-7	0	0.829826533	893.1261388	9.80272
BAIAP2L2	8.80513933	76.67091847	8.707519051	3.122262	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP90	0	0.829826533	893.1261388	9.80272
ADH1B	25.31477557	220.0122008	8.691058713	3.119532	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MYBPC2	5.503212081	47.78042745	8.682279866	3.118074	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.47	0	0.829826533	893.1261388	9.80272
MYOM3	7.704496914	66.67036389	8.653435082	3.113273	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP55	0	0.829826533	893.1261388	9.80272
OGDHL	9.905781747	85.56030032	8.637410202	3.110599	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.48	0	0.829826533	893.1261388	9.80272
IQCA1	55.03212081	474.4707563	8.62170582	3.107973	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU5E-4P	0	0.829826533	893.1261388	9.80272
ACSM4	4.402569665	37.77987287	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP166	0	0.829826533	893.1261388	9.80272
GLP2R	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP22	0	0.829826533	893.1261388	9.80272
DAO	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-934P	0	0.829826533	893.1261388	9.80272
NPAS1	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-290P	0	0.829826533	893.1261388	9.80272
FBXL21P	2.201284833	18.88993643	8.581323123	3.1012	NPHP3-ACA	2.4894796	0	547.0328046	9.095484	Y_RNA.52	0	0.829826533	893.1261388	9.80272
TSPYL6	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.53	0	0.829826533	893.1261388	9.80272
RUFY4	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.54	0	0.829826533	893.1261388	9.80272
SLC2A7	2.201284833	18.88993643	8.581323123	3.1012	SNORD91B	2.4894796	0	547.0328046	9.095484	RNU6-1283P	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA30B	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	18.88993643	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	RNY3P12	0	0.829826533	893.1261388	9.80272
SLCO4A1	13.207709	113.3396186	8.581323123	3.1012	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.59	0	0.829826533	893.1261388	9.80272
KIFC2	252.0471133	2155.675099	8.552667279	3.096374	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP249	0	0.829826533	893.1261388	9.80272
VTCN1	18.71092108	160.0088733	8.551629963	3.096199	ENSG000002	2.4894796	0	547.0328046	9.095484	RN7SKP292	0	0.829826533	893.1261388	9.80272
KNDC1	27.51606041	234.4574463	8.520749078	3.09098	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP259	0	0.829826533	893.1261388	9.80272
IGSF1	17.61027866	150.0083187	8.518225159	3.090553	ENSG000002	2.4894796	0	547.0328046	9.095484	RNY3P13	0	0.829826533	893.1261388	9.80272
AGRN	1237.122076	10517.2499	8.501384065	3.087698	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP88	0	0.829826533	893.1261388	9.80272
TYRP1	11.00642416	93.33850944	8.48036638	3.084127	IGKV1D-13	2.4894796	0	547.0328046	9.095484	RNU6-669P	0	0.829826533	893.1261388	9.80272
PSG6	5.503212081	46.66925472	8.48036638	3.084127	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.64	0	0.829826533	893.1261388	9.80272
CA13	38.52248457	326.684783	8.48036638	3.084127	ANKRD20A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EDN3	8.80513933	74.44857301	8.455127195	3.079826	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM78B-AS1	0	0.829826533	893.1261388	9.80272
FCER2	3.301927249	27.77931829	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01562	0	0.829826533	893.1261388	9.80272
SHISA3	3.301927249	27.77931829	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	HMGB1P39	0	0.829826533	893.1261388	9.80272
SH2D1B	3.301927249	27.77931829	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BHLHE40-AS	3.301927249	27.77931829	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00501	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	27.77931829	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC00272	0	0.829826533	893.1261388	9.80272
EBF2	9.905781747	83.33795486	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	HSD3BP4	0	0.829826533	893.1261388	9.80272
SCX	9.905781747	83.33795486	8.413061885	3.072631	ENSG000002	2.4894796	0	547.0328046	9.095484	SPATA42	0	0.829826533	893.1261388	9.80272
FAM241B	14.30835141	120.006655	8.387175541	3.068185	Metazoa_SRI	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCSK4	28.61670282	238.9021373	8.348346025	3.06149	ENSG000002	2.4894796	0	547.0328046	9.095484	OOEP	0	0.829826533	893.1261388	9.80272
CDH23	85.85010847	715.595239	8.335402853	3.059252	ENSG000002	2.4894796	0	547.0328046	9.095484	KHDC3L	0	0.829826533	893.1261388	9.80272
PAQR8	56.13276323	467.8037199	8.333880126	3.058988	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC7A14	8.80513933	73.33740027	8.328931267	3.058131	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMPRSS15	8.80513933	73.33740027	8.328931267	3.058131	TRAJ37	2.4894796	0	547.0328046	9.095484	COL5A1-AS1	0	0.829826533	893.1261388	9.80272
NLRP5	4.402569665	36.66870014	8.328931267	3.058131	ENSG000002	2.4894796	0	547.0328046	9.095484	LRRC37A5P	0	0.829826533	893.1261388	9.80272
OR5AR1	4.402569665	36.66870014	8.328931267	3.058131	EPB41L4A-I	2.4894796	0	547.0328046	9.095484	BMS1P1	0	0.829826533	893.1261388	9.80272
GP1BA	4.402569665	36.66870014	8.328931267	3.058131	ENSG000002	2.4894796	0	547.0328046	9.095484	DAXX	0	0.829826533	893.1261388	9.80272
GPR162	13.207709	110.0061004	8.328931267	3.058131	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01993	0	0.829826533	893.1261388	9.80272
GPR35	14.30835141	118.8954823	8.309516508	3.054765	ENSG000002	2.4894796	0	547.0328046	9.095484	STK19	0	0.829826533	893.1261388	9.80272
DHRS13	73.74304189	612.256175	8.302561968	3.053557	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GCNT3	5.503212081	45.55808199	8.278452895	3.049361	ENSG000002	2.4894796	0	547.0328046	9.095484	C6orf47	0	0.829826533	893.1261388	9.80272
SP9	6.603854498	54.44746384	8.244800648	3.043485	LINC01451	2.4894796	0	547.0328046	9.095484	PRAMEF20	0	0.829826533	893.1261388	9.80272
CFAP46	13.207709	108.8949277	8.244800648	3.043485	ENSG000002	2.4894796	0	547.0328046	9.095484	NFKBIL1	0	0.829826533	893.1261388	9.80272
CACNA1B	37.42184215	307.7948466	8.225005208	3.040017	OR2AG1	2.4894796	0	547.0328046	9.095484	CDSN	0	0.829826533	893.1261388	9.80272
SEPTIN6	26.41541799	216.6786826	8.202735338	3.036105	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYP4A22	12.10706658	98.8943731	8.168318267	3.030039	ENSG000002	2.4894796	0	547.0328046	9.095484	ABCF1	0	0.829826533	893.1261388	9.80272
ANKK1	12.10706658	98.8943731	8.168318267	3.030039	ENSG000002	2.4894796	0	547.0328046	9.095484	HLA-E	0	0.829826533	893.1261388	9.80272
MUC12	2189.177766	17870.99104	8.1633348	3.029159	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01257	0	0.829826533	893.1261388	9.80272
APOD	3671.743101	29762.76161	8.105894338	3.018971	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC02210	0	0.829826533	893.1261388	9.80272
TMEM59L	3.301927249	26.66814555	8.07653941	3.013737	FLJ38576	2.4894796	0	547.0328046	9.095484	CBY3	0	0.829826533	893.1261388	9.80272
SLC5A2	3.301927249	26.66814555	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01951	0	0.829826533	893.1261388	9.80272
FBXO47	3.301927249	26.66814555	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01291	0	0.829826533	893.1261388	9.80272
RFPL4AL1	3.301927249	26.66814555	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	FGF7P5	0	0.829826533	893.1261388	9.80272
HBA1	7.704496914	62.22567296	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC01545	0	0.829826533	893.1261388	9.80272
GABRB3	5.503212081	44.44690926	8.07653941	3.013737	TBC1D22A-.	2.4894796	0	547.0328046	9.095484	BLACE	0	0.829826533	893.1261388	9.80272
EPS8L3	5.503212081	44.44690926	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	PCDHA5	0	0.829826533	893.1261388	9.80272
RBP4	8.80513933	71.11505481	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	COX17P1	0	0.829826533	893.1261388	9.80272
HDGFL1	4.402569665	35.55752741	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC02716	0	0.829826533	893.1261388	9.80272
PGAM2	4.402569665	35.55752741	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	OR7E36P	0	0.829826533	893.1261388	9.80272
PCSK9	4.402569665	35.55752741	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	CTXN3	0	0.829826533	893.1261388	9.80272
ARSH	4.402569665	35.55752741	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PROKR2	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	GOLGA2P1	0	0.829826533	893.1261388	9.80272
CLEC4M	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	NBPF22P	0	0.829826533	893.1261388	9.80272
MAGEA10	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	FLRT2-AS1	0	0.829826533	893.1261388	9.80272
FUT7	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM47A	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
S100A3	2.201284833	17.7787637	8.07653941	3.013737	TRG-AS1	2.4894796	0	547.0328046	9.095484	LINC00487	0	0.829826533	893.1261388	9.80272
PLEKHM1	2.201284833	17.7787637	8.07653941	3.013737	TMEM272	2.4894796	0	547.0328046	9.095484	DEFB136	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	17.7787637	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LHFPL7	0	0.829826533	893.1261388	9.80272
NOS2P1	2.201284833	17.7787637	8.07653941	3.013737	DPRXP3	2.4894796	0	547.0328046	9.095484	FAM230H	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	17.7787637	8.07653941	3.013737	LINC01002	2.4894796	0	547.0328046	9.095484	LINC02346	0	0.829826533	893.1261388	9.80272
LGALS14	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	TSSK2	0	0.829826533	893.1261388	9.80272
CHGA	1.100642416	8.889381852	8.07653941	3.013737	HYMAI	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LHB	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	LRRC30	0	0.829826533	893.1261388	9.80272
OPN5	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	KRBOX1-AS	0	0.829826533	893.1261388	9.80272
SEPTIN12	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-945P	0	0.829826533	893.1261388	9.80272
CER1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.71	0	0.829826533	893.1261388	9.80272
BMP10	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-26P	0	0.829826533	893.1261388	9.80272
RHO	1.100642416	8.889381852	8.07653941	3.013737	LINC02767	2.4894796	0	547.0328046	9.095484	Y_RNA.72	0	0.829826533	893.1261388	9.80272
LINC01620	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-936P	0	0.829826533	893.1261388	9.80272
MYL11	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA30	0	0.829826533	893.1261388	9.80272
CCL13	1.100642416	8.889381852	8.07653941	3.013737	SMIM44	2.4894796	0	547.0328046	9.095484	RNU6-203P	0	0.829826533	893.1261388	9.80272
ADGRG3	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.76	0	0.829826533	893.1261388	9.80272
FAM131C	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNVU1-30	0	0.829826533	893.1261388	9.80272
CLDN24	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1029P	0	0.829826533	893.1261388	9.80272
C1QL4	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-48P	0	0.829826533	893.1261388	9.80272
OR8G1	1.100642416	8.889381852	8.07653941	3.013737	LINC02478	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C9orf57	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU1-52P	0	0.829826533	893.1261388	9.80272
SPDYC	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-432P	0	0.829826533	893.1261388	9.80272
PRSS1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1324P	0	0.829826533	893.1261388	9.80272
SMIM21	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.79	0	0.829826533	893.1261388	9.80272
IGKV2D-26	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-610P	0	0.829826533	893.1261388	9.80272

VSTM5	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU1-8P	0	0.829826533	893.1261388	9.80272
TPT1P4	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1113P	0	0.829826533	893.1261388	9.80272
HNRNPA1P1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-31P	0	0.829826533	893.1261388	9.80272
PFDN1P1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	U3.1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-106P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-769P	0	0.829826533	893.1261388	9.80272
RBMY1J	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.85	0	0.829826533	893.1261388	9.80272
CTAGE13P	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-905P	0	0.829826533	893.1261388	9.80272
NUTM2HP	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA15	0	0.829826533	893.1261388	9.80272
COL4A2-AS1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA14B	0	0.829826533	893.1261388	9.80272
POU5F1P4	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-45P	0	0.829826533	893.1261388	9.80272
OR10G4	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA80D	0	0.829826533	893.1261388	9.80272
OR4A4P	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA70E	0	0.829826533	893.1261388	9.80272
OR4C9P	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.86	0	0.829826533	893.1261388	9.80272
ST13P3	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-125P	0	0.829826533	893.1261388	9.80272
PIGHP1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA70I	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU1-89P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.89	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1263P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.92	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.93	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1060P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1179P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-987P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-9	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-1237P	0	0.829826533	893.1261388	9.80272
HERC2P2	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-33P	0	0.829826533	893.1261388	9.80272
TBC1D3E	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR661	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR662	0	0.829826533	893.1261388	9.80272
OR8B3	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR641	0	0.829826533	893.1261388	9.80272
C2orf83.1	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR595	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	8.889381852	8.07653941	3.013737	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR571	0	0.829826533	893.1261388	9.80272
ADAMTS20	27.51606041	221.1233736	8.036156713	3.006506	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR489	0	0.829826533	893.1261388	9.80272
TMEM147-AS	31.91863007	255.5697282	8.00691407	3.001246	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR556	0	0.829826533	893.1261388	9.80272
HSPA2	107.8629568	863.3812123	8.004427451	3.000798	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR10B	0	0.829826533	893.1261388	9.80272
NDUFA4L2	22.01284833	175.5652916	7.975582667	2.99559	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR575	0	0.829826533	893.1261388	9.80272
TLL2	31.91863007	253.3473828	7.93728873	2.988646	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR617	0	0.829826533	893.1261388	9.80272
ERMARD	13.207709	104.4502368	7.908278172	2.983364	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR520G	0	0.829826533	893.1261388	9.80272
FAM131B-AS	11.00642416	86.67147305	7.874625925	2.977211	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR483	0	0.829826533	893.1261388	9.80272
PTGDR2	5.503212081	43.33573653	7.874625925	2.977211	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR95	0	0.829826533	893.1261388	9.80272
RIMS4	20.91220591	164.4535643	7.863998899	2.975263	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR640	0	0.829826533	893.1261388	9.80272
EMC9	4.402569665	34.44635467	7.824147553	2.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR511	0	0.829826533	893.1261388	9.80272
RNF212B	4.402569665	34.44635467	7.824147553	2.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR567	0	0.829826533	893.1261388	9.80272
CES4A	13.207709	103.339064	7.824147553	2.967934	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR219A2H(	0	0.829826533	893.1261388	9.80272
KIF1A	179.4047139	1398.966469	7.797824476	2.963072	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR569	0	0.829826533	893.1261388	9.80272
ALDH1L1	79.24625397	617.8120387	7.796104014	2.962753	DHX9-AS1	2.4894796	0	547.0328046	9.095484	MIR620	0	0.829826533	893.1261388	9.80272
CYP4F3	7.704496914	60.0033275	7.788091574	2.96127	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR125B1	0	0.829826533	893.1261388	9.80272
IGFBP6	161.7944352	1256.736359	7.767488157	2.957448	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR301A	0	0.829826533	893.1261388	9.80272
FOSB	41.82441182	324.4624376	7.757728644	2.955634	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR644A	0	0.829826533	893.1261388	9.80272
QSOX1	401.7344819	3115.728339	7.755690584	2.955255	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR591	0	0.829826533	893.1261388	9.80272
ASTN2	1226.115652	9504.971545	7.752100327	2.954587	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORA40B	0	0.829826533	893.1261388	9.80272
TCAP	3.301927249	25.55697282	7.740016935	2.952337	ENSG000002	2.4894796	0	547.0328046	9.095484	SNORD83A	0	0.829826533	893.1261388	9.80272
ASTL	3.301927249	25.55697282	7.740016935	2.952337	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6ATAC4	0	0.829826533	893.1261388	9.80272
CA3	13.207709	102.2278913	7.740016935	2.952337	ENSG000002	2.4894796	0	547.0328046	9.095484	MIR190A	0	0.829826533	893.1261388	9.80272
RADIL	34.11991491	263.3479374	7.718305807	2.948284	ENSG000002	2.4894796	0	547.0328046	9.095484	IGKV6D-41	0	0.829826533	893.1261388	9.80272
SLIT1	69.34047223	533.3629111	7.691942295	2.943348	ENSG000002	2.4894796	0	547.0328046	9.095484	IGLV5-52	0	0.829826533	893.1261388	9.80272
KASH5	5.503212081	42.22456379	7.672712439	2.939737	ENSG000002	2.4894796	0	547.0328046	9.095484	IGLJ3	0	0.829826533	893.1261388	9.80272
PSG9	5.503212081	42.22456379	7.672712439	2.939737	DUS4L-BCA	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HES6	16.50963624	126.6736914	7.672712439	2.939737	ENSG000002	2.4894796	0	547.0328046	9.095484	TRAV8-7	0	0.829826533	893.1261388	9.80272
EPOR	114.4668113	876.7152851	7.659122109	2.937179	PANO1	2.4894796	0	547.0328046	9.095484	MIR708	0	0.829826533	893.1261388	9.80272
NIPSNAP3B	60.5353329	461.1366835	7.617645125	2.929345	ENSG000002	2.4894796	0	547.0328046	9.095484	U8	0	0.829826533	893.1261388	9.80272
LRRC7	97.95717505	744.4857301	7.600114332	2.926021	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP18	0	0.829826533	893.1261388	9.80272
CRYGN	8.80513933	66.67036389	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.101	0	0.829826533	893.1261388	9.80272
RSPO4	4.402569665	33.33518194	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP286	0	0.829826533	893.1261388	9.80272
MMP8	4.402569665	33.33518194	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRIM54	4.402569665	33.33518194	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	RNU6-530P	0	0.829826533	893.1261388	9.80272
PCDHB2	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	Y_RNA.102	0	0.829826533	893.1261388	9.80272
HPCA	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARL5C	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	RNA5SP467	0	0.829826533	893.1261388	9.80272
SYCE2	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	KRTAP2-1	0	0.829826533	893.1261388	9.80272
OR2B2	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	PABPN1P1	0	0.829826533	893.1261388	9.80272
C9orf50	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GAGE2A	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	TPM3P1	0	0.829826533	893.1261388	9.80272
OR1S2	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5AC1	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	RNF11P1	0	0.829826533	893.1261388	9.80272
UGT2B25P	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	LIN28AP1	0	0.829826533	893.1261388	9.80272
PRPS1L1	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	CSH2	0	0.829826533	893.1261388	9.80272
HADHAP1	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	CYCSP19	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	16.66759097	7.571755697	2.920628	ENSG000002	2.4894796	0	547.0328046	9.095484	RPL36P12	0	0.829826533	893.1261388	9.80272
ODF2L	366.5139246	2772.375965	7.564176362	2.919183	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PMEL	12.10706658	91.11616398	7.525866268	2.911858	ENSG000002	2.4894796	0	547.0328046	9.095484	C1QBPP2	0	0.829826533	893.1261388	9.80272
HAGHL	9.905781747	74.44857301	7.515668618	2.909901	ENSG000002	2.4894796	0	547.0328046	9.095484	EIF4A1P8	0	0.829826533	893.1261388	9.80272
PMP22	292.7708827	2196.78849	7.503439104	2.907552	ENSG000002	2.4894796	0	547.0328046	9.095484	AKR1B10P1	0	0.829826533	893.1261388	9.80272
FBXL2	79.24625397	594.4774113	7.501646848	2.907207	ENSG000002	2.4894796	0	547.0328046	9.095484	FAM220CP	0	0.829826533	893.1261388	9.80272
PLD5	5.503212081	41.11339106	7.470798954	2.901263	ENSG000002	2.4894796	0	547.0328046	9.095484	BOLA3P3	0	0.829826533	893.1261388	9.80272
MFSD10	79.24625397	591.1438931	7.459581538	2.899095	ENSG000002	2.4894796	0	547.0328046	9.095484	OLA1P2	0	0.829826533	893.1261388	9.80272
CACNA1E	17.61027866	131.1183823	7.445559769	2.89638	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR13C3	3.301927249	24.44580009	7.403494459	2.888206	ENSG000002	2.4894796	0	547.0328046	9.095484	RPL13AP9	0	0.829826533	893.1261388	9.80272
PPP2R5CP	3.301927249	24.44580009	7.403494459	2.888206	ENSG000002	2.4894796	0	547.0328046	9.095484	RHOG2P	0	0.829826533	893.1261388	9.80272
ID1	72.64239948	536.6964293	7.388197983	2.885223	ENSG000002	2.4894796	0	547.0328046	9.095484	PIGCP1	0	0.829826533	893.1261388	9.80272
PCBP3	7.704496914	56.6698093	7.35541982	2.878808	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAMDC4	55.03212081	404.4668742	7.349650863	2.877676	ENSG000002	2.4894796	0	547.0328046	9.095484	KRT8P37	0	0.829826533	893.1261388	9.80272
TCN2	74.84368431	550.0305021	7.349057	2.877559	FAM95A	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KRT10-AS1	37.42184215	274.4596647	7.33421042	2.874642	ENSG000002	2.4894796	0	547.0328046	9.095484	VDAC1P2	0	0.829826533	893.1261388	9.80272
CYP11B1	4.402569665	32.22400921	7.31936384	2.871718	ENSG000002	2.4894796	0	547.0328046	9.095484	LTB4R2	0	0.829826533	893.1261388	9.80272
SCUBE1	48.42826632	354.4641013	7.31936384	2.871718	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACHE	45.12633907	330.0183012	7.313207941	2.870504	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
F3	244.3426164	1785.654579	7.307994838	2.869476	ENSG000002	2.4894796	0	547.0328046	9.095484	MEF2B	0	0.829826533	893.1261388	9.80272
TBC1D3L	14.30835141	104.4502368	7.299949082	2.867886	ENSG000002	2.4894796	0	547.0328046	9.095484	ATP5PBP4	0	0.829826533	893.1261388	9.80272
TNR	5.503212081	40.00221833	7.268885469	2.861734	ENSG000002	2.4894796	0	547.0328046	9.095484	ARPC3P5	0	0.829826533	893.1261388	9.80272
BPIFB3	5.503212081	40.00221833	7.268885469	2.861734	ENSG000002	2.4894796	0	547.0328046	9.095484	LINC02418	0	0.829826533	893.1261388	9.80272

ENSG000002	5.503212081	40.00221833	7.268885469	2.861734	ENSG000002	2.4894796	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAH9	71.54175706	512.2506292	7.160162823	2.839992	ENSG000002	2.4894796	0	547.0328046	9.095484	SMCO1	0	0.829826533	893.1261388	9.80272
RFX6	19.81156349	141.1189369	7.123059063	2.832497	ENSG000002	2.4894796	0	547.0328046	9.095484	SNRPEP9	0	0.829826533	893.1261388	9.80272
PIR	86.95075089	616.7008659	7.092530653	2.8263	ENSG000002	2.4894796	0	547.0328046	9.095484	ZNF788P	0	0.829826533	893.1261388	9.80272
MELTF	91.35332055	647.8137024	7.09129891	2.82605	ENSG000002	2.4894796	0	547.0328046	9.095484	MINDY4B	0	0.829826533	893.1261388	9.80272
THBD	48.42826632	343.352374	7.089916698	2.825769	INTS4P1.1	2.4894796	0	547.0328046	9.095484	RPSAP53	0	0.829826533	893.1261388	9.80272
SYNDIG1	11.00642416	77.7820912	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	FOXO1B	0	0.829826533	893.1261388	9.80272
TFAP2B	6.603854498	46.66925472	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	MRPS21P6	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	46.66925472	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	ABCD1P5	0	0.829826533	893.1261388	9.80272
MTCH2	4.402569665	31.11283648	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	EFCAB9	0	0.829826533	893.1261388	9.80272
TSKS	4.402569665	31.11283648	7.066971984	2.821092	NBPF25P	2.4894796	0	547.0328046	9.095484	LINC00488	0	0.829826533	893.1261388	9.80272
OR10K1	4.402569665	31.11283648	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	AS3MT	0	0.829826533	893.1261388	9.80272
KRT26	4.402569665	31.11283648	7.066971984	2.821092	ENSG000002	2.4894796	0	547.0328046	9.095484	RPS15AP1	0	0.829826533	893.1261388	9.80272
KPRP	4.402569665	31.11283648	7.066971984	2.821092	GSC2	1.659653067	0	547.0328046	9.095484	RPS4XP3	0	0.829826533	893.1261388	9.80272
C4BPA	3.301927249	23.33462736	7.066971984	2.821092	ADGRL1	1.659653067	0	547.0328046	9.095484	RPL21P41	0	0.829826533	893.1261388	9.80272
NDUFB4P12	3.301927249	23.33462736	7.066971984	2.821092	CYP2W1	1.659653067	0	547.0328046	9.095484	RPL9P16	0	0.829826533	893.1261388	9.80272
OR13C9	3.301927249	23.33462736	7.066971984	2.821092	TMEM131	1.659653067	0	547.0328046	9.095484	IQCF5	0	0.829826533	893.1261388	9.80272
MSLNL	3.301927249	23.33462736	7.066971984	2.821092	GGT1	1.659653067	0	547.0328046	9.095484	IQCF6	0	0.829826533	893.1261388	9.80272
DPPA2	3.301927249	23.33462736	7.066971984	2.821092	MLC1	1.659653067	0	547.0328046	9.095484	CDIPTOSP	0	0.829826533	893.1261388	9.80272
OR6C4	3.301927249	23.33462736	7.066971984	2.821092	CST9L	1.659653067	0	547.0328046	9.095484	HNRNPA1P1	0	0.829826533	893.1261388	9.80272
CLEC17A	3.301927249	23.33462736	7.066971984	2.821092	ASIP	1.659653067	0	547.0328046	9.095484	CYCSP55	0	0.829826533	893.1261388	9.80272
FABP9	3.301927249	23.33462736	7.066971984	2.821092	H2BW2	1.659653067	0	547.0328046	9.095484	SEM1P1	0	0.829826533	893.1261388	9.80272
TMEM253	3.301927249	23.33462736	7.066971984	2.821092	ATP1B4	1.659653067	0	547.0328046	9.095484	SRSF9P1	0	0.829826533	893.1261388	9.80272
CCDC198	2.201284833	15.55641824	7.066971984	2.821092	GLRA2	1.659653067	0	547.0328046	9.095484	TMEM14DP	0	0.829826533	893.1261388	9.80272
SFTPB	2.201284833	15.55641824	7.066971984	2.821092	ERI1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDI1	2.201284833	15.55641824	7.066971984	2.821092	RNASEH2A	1.659653067	0	547.0328046	9.095484	RPSAP55	0	0.829826533	893.1261388	9.80272
LINC02870	2.201284833	15.55641824	7.066971984	2.821092	LILRB1	1.659653067	0	547.0328046	9.095484	HSPD1P7	0	0.829826533	893.1261388	9.80272
GSG1L2	2.201284833	15.55641824	7.066971984	2.821092	SULT2A1	1.659653067	0	547.0328046	9.095484	NEURL4	0	0.829826533	893.1261388	9.80272
YWHAZP3	2.201284833	15.55641824	7.066971984	2.821092	ZNRF4	1.659653067	0	547.0328046	9.095484	GLULP6	0	0.829826533	893.1261388	9.80272
FABP5P3	2.201284833	15.55641824	7.066971984	2.821092	CRHR2	1.659653067	0	547.0328046	9.095484	DUSP8P1	0	0.829826533	893.1261388	9.80272
MEI4	2.201284833	15.55641824	7.066971984	2.821092	DKK1	1.659653067	0	547.0328046	9.095484	EEF1A1P29	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	15.55641824	7.066971984	2.821092	CCL7	1.659653067	0	547.0328046	9.095484	TCEA1P3	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	15.55641824	7.066971984	2.821092	DBX1	1.659653067	0	547.0328046	9.095484	MUC5AC	0	0.829826533	893.1261388	9.80272
ZNF285CP	1.100642416	7.77820912	7.066971984	2.821092	FGF6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PAGE1	1.100642416	7.77820912	7.066971984	2.821092	CCN6	1.659653067	0	547.0328046	9.095484	HMGB3P24	0	0.829826533	893.1261388	9.80272
POU4F3	1.100642416	7.77820912	7.066971984	2.821092	IL5	1.659653067	0	547.0328046	9.095484	FAM90A24P	0	0.829826533	893.1261388	9.80272
HNF4A	1.100642416	7.77820912	7.066971984	2.821092	KCNIP3	1.659653067	0	547.0328046	9.095484	BCRP4	0	0.829826533	893.1261388	9.80272
FSD1	1.100642416	7.77820912	7.066971984	2.821092	INO80B	1.659653067	0	547.0328046	9.095484	SIAH3	0	0.829826533	893.1261388	9.80272
NXPH1	1.100642416	7.77820912	7.066971984	2.821092	PDC	1.659653067	0	547.0328046	9.095484	FMO9P	0	0.829826533	893.1261388	9.80272
NTS	1.100642416	7.77820912	7.066971984	2.821092	GLRXP3	1.659653067	0	547.0328046	9.095484	RPL23AP17	0	0.829826533	893.1261388	9.80272
GPHA2	1.100642416	7.77820912	7.066971984	2.821092	G0S2	1.659653067	0	547.0328046	9.095484	MIR942	0	0.829826533	893.1261388	9.80272
RTP3	1.100642416	7.77820912	7.066971984	2.821092	IL17C	1.659653067	0	547.0328046	9.095484	MIR921	0	0.829826533	893.1261388	9.80272
TEX47	1.100642416	7.77820912	7.066971984	2.821092	CSTL1	1.659653067	0	547.0328046	9.095484	RPL13AP15	0	0.829826533	893.1261388	9.80272
OR2G3	1.100642416	7.77820912	7.066971984	2.821092	BANF2	1.659653067	0	547.0328046	9.095484	H1-12P	0	0.829826533	893.1261388	9.80272
HES7	1.100642416	7.77820912	7.066971984	2.821092	LGALS12	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GLTPD2	1.100642416	7.77820912	7.066971984	2.821092	SAA2	1.659653067	0	547.0328046	9.095484	HMGA1P7	0	0.829826533	893.1261388	9.80272
KRT77	1.100642416	7.77820912	7.066971984	2.821092	DSG3	1.659653067	0	547.0328046	9.095484	VN1R13P	0	0.829826533	893.1261388	9.80272
OR8B8	1.100642416	7.77820912	7.066971984	2.821092	MIP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	FGFBP2	1.659653067	0	547.0328046	9.095484	MTCO2P31	0	0.829826533	893.1261388	9.80272
RNPC3-DT	1.100642416	7.77820912	7.066971984	2.821092	CELA1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAJC9-AS1	1.100642416	7.77820912	7.066971984	2.821092	SLC25A52	1.659653067	0	547.0328046	9.095484	POM121L4P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	LEFTY2	1.659653067	0	547.0328046	9.095484	UQCRFS1P3	0	0.829826533	893.1261388	9.80272
SYNE1-AS1	1.100642416	7.77820912	7.066971984	2.821092	FAM86B2	1.659653067	0	547.0328046	9.095484	TUBB4BP7	0	0.829826533	893.1261388	9.80272
HAUS6P3	1.100642416	7.77820912	7.066971984	2.821092	TIMD4	1.659653067	0	547.0328046	9.095484	RPL21P61	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	TAAR6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FTH1P23	1.100642416	7.77820912	7.066971984	2.821092	TAAR8	1.659653067	0	547.0328046	9.095484	ADAMTS7P4	0	0.829826533	893.1261388	9.80272
EOGT-DT	1.100642416	7.77820912	7.066971984	2.821092	PRDM14	1.659653067	0	547.0328046	9.095484	RSL24D1P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	PPIAP26	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SOX5P1	1.100642416	7.77820912	7.066971984	2.821092	KCNA6	1.659653067	0	547.0328046	9.095484	POM121L14F	0	0.829826533	893.1261388	9.80272
HNRNPCP8	1.100642416	7.77820912	7.066971984	2.821092	PTH	1.659653067	0	547.0328046	9.095484	RPS4XP7	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	MARVELD2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	ASB17	1.659653067	0	547.0328046	9.095484	RPS3AP23	0	0.829826533	893.1261388	9.80272
SLC28A2-AS	1.100642416	7.77820912	7.066971984	2.821092	PAGE5	1.659653067	0	547.0328046	9.095484	NDUFS5P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	GIP	1.659653067	0	547.0328046	9.095484	H2AZP3	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	LRRC36	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAH17-AS	1.100642416	7.77820912	7.066971984	2.821092	TMEM190	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	SCGB3A1	1.659653067	0	547.0328046	9.095484	GAPDHP63	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	FABP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	RPL39L	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM191B	1.100642416	7.77820912	7.066971984	2.821092	FAM183BP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	LRRC18	1.659653067	0	547.0328046	9.095484	FAM8A6P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	SSX5	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	PRAP1	1.659653067	0	547.0328046	9.095484	CNN3P1	0	0.829826533	893.1261388	9.80272
POM121L9P	1.100642416	7.77820912	7.066971984	2.821092	TRIM53BP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	7.77820912	7.066971984	2.821092	LDHC	1.659653067	0	547.0328046	9.095484	CELA3B	0	0.829826533	893.1261388	9.80272
ACVR1C	17.61027866	124.4513459	7.066971984	2.821092	TCP10L2	1.659653067	0	547.0328046	9.095484	RPL31P52	0	0.829826533	893.1261388	9.80272
FGA	7.704496914	54.44746384	7.066971984	2.821092	LINC00905	1.659653067	0	547.0328046	9.095484	ATF1P1	0	0.829826533	893.1261388	9.80272
MFAP5	7.704496914	54.44746384	7.066971984	2.821092	LAIR1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADORA2B	41.82441182	293.3496011	7.013836856	2.810204	C3P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RFLNA	39.62312699	277.7931829	7.010884904	2.809597	MYL1	1.659653067	0	547.0328046	9.095484	OR7E104P	0	0.829826533	893.1261388	9.80272
JAG1	3046.578208	21300.07009	6.991473264	2.805596	ADAM18	1.659653067	0	547.0328046	9.095484	KRT18P50	0	0.829826533	893.1261388	9.80272
MUC17	102.3597447	712.2617209	6.958416346	2.798759	IL13	1.659653067	0	547.0328046	9.095484	BTF3P7	0	0.829826533	893.1261388	9.80272
FRMPD2	27.51606041	191.1217098	6.945823893	2.796146	CST5	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GARIN5A	8.80513933	61.11450023	6.940776055	2.795097	MIR31HG	1.659653067	0	547.0328046	9.095484	LAP3P1	0	0.829826533	893.1261388	9.80272
ASPA	26.41541799	183.3435007	6.940776055	2.795097	EVX2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHID1	220.1284833	1525.64016	6.930680381	2.792997	MIR1-1HG	1.659653067	0	547.0328046	9.095484	H3P27	0	0.829826533	893.1261388	9.80272
SLC47A1	55.03212081	380.0210742	6.905441196	2.787734	OR10AG1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADH4	6.603854498	45.55808199	6.898710746	2.786327	NPPA	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BRINP1	37.42184215	257.7920737	6.888813026	2.784255	ANKRD30B	1.659653067	0	547.0328046	9.095484	SNORD111	0	0.829826533	893.1261388	9.80272
FSCN1	84.74946605	583.365684	6.88341427	2.783124	PRIMA1	1.659653067	0	547.0328046	9.095484	MIR1302-5	0	0.829826533	893.1261388	9.80272
DPF1	5.503212081	37.77987287	6.865058498	2.779272	OR4D11	1.659653067	0	547.0328046	9.095484	MIR548P	0	0.829826533	893.1261388	9.80272
BLOC1S4	19.81156349	135.5630732	6.842623667	2.77455	ENSG000001	1.659653067	0	547.0328046	9.095484	RNU6ATAC1	0	0.829826533	893.1261388	9.80272
SLC39A11	101.2591023	691.149439	6.825553686	2.770946	GJA1P1	1.659653067	0	547.0328046	9.095484	RNU6ATAC8	0	0.829826533	893.1261388	9.80272
ATAD3C	8.80513933	60.0033275	6.814580127	2.768625	IRAG1-AS1	1.659653067	0	547.0328046	9.095484	MIR1271	0	0.829826533	893.1261388	9.80272
VWA5B1	4.402569665	30.00166375	6.814580127	2.768625	CETN1	1.659653067	0	547.0328046	9.095484	MIR1251	0	0.829826533	893.1261388	9.80272
MARCHF10	4.402569665	30.00166375	6.814580127	2.768625	GJD4	1.659653067	0	547.0328046	9.095484	MIR1303	0	0.829826533	893.1261388	9.80272
PSAPL1	4.402569665	30.00166375	6.814580127	2.768625	LMO7DN	1.659653067	0	547.0328046	9.095484	SNORA77	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	30.00166375	6.814580127	2.768625	NSA2P3	1.659653067	0	547.0328046	9.095484	MIR1290	0	0.829826533	893.1261388	9.80272
JAM2	102.3597447	696.7053026	6.806438454	2.7669	ENSG000001	1.659653067	0	547.0328046	9.095484	MIR1282	0	0.829826533	893.1261388	9.80272
PTH1R	29.71734524	202.2334371	6.805232281	2.766644	OR2AP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC9A4	7.704496914	52.22511838	6.778524148	2.760971	LINC00652	1.659653067	0	547.0328046	9.095484	KRTAP10-10	0	0.829826533	893.1261388	9.80272

TIMP4	11.00642416	74.44857301	6.764101756	2.757898	SPDYE7P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
C11orf71	47.3276239	320.0177467	6.761753925	2.757398	XIAPP3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
BPIFB1	14.30835141	96.67202764	6.756335853	2.756241	LINC00304	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
NRN1	17.61027866	118.8954823	6.751482163	2.755204	OR56B1	1.659653067	0	547.0328046	9.095484	RN7SKP110	0	0.829826533	893.1261388	9.80272						
PRKD1	603.1520441	4069.114543	6.746415903	2.754121	OR52N4	1.659653067	0	547.0328046	9.095484	RN7SKP16	0	0.829826533	893.1261388	9.80272						
PRR22	24.21413316	163.3423915	6.745745984	2.753978	MUC16	1.659653067	0	547.0328046	9.095484	RNA5SP239	0	0.829826533	893.1261388	9.80272						
MGAT3	16.50963624	111.1172731	6.730449508	2.750703	FDCSP	1.659653067	0	547.0328046	9.095484	RNU6-892P	0	0.829826533	893.1261388	9.80272						
PAX3	6.603854498	44.44690926	6.730449508	2.750703	SLX1B	1.659653067	0	547.0328046	9.095484	RNU6-1156P	0	0.829826533	893.1261388	9.80272						
GPRC5D	3.301927249	22.22345463	6.730449508	2.750703	OGFRP1	1.659653067	0	547.0328046	9.095484	RNU2-26P	0	0.829826533	893.1261388	9.80272						
SLC17A3	3.301927249	22.22345463	6.730449508	2.750703	CRYGB	1.659653067	0	547.0328046	9.095484	RNA5SP296	0	0.829826533	893.1261388	9.80272						
GCM2	3.301927249	22.22345463	6.730449508	2.750703	FAM87A	1.659653067	0	547.0328046	9.095484	RNU6-121P	0	0.829826533	893.1261388	9.80272						
KLHDC8A	3.301927249	22.22345463	6.730449508	2.750703	KCNK4	1.659653067	0	547.0328046	9.095484	SNORA79B	0	0.829826533	893.1261388	9.80272						
KRTAP5-10	3.301927249	22.22345463	6.730449508	2.750703	TSPEAR-AS	1.659653067	0	547.0328046	9.095484	RNU6-519P	0	0.829826533	893.1261388	9.80272						
SLC26A2	407.237694	2733.484919	6.712259104	2.746798	NKX2-5	1.659653067	0	547.0328046	9.095484	RNU2-42P	0	0.829826533	893.1261388	9.80272						
HIF3A	59.43469048	397.7998379	6.693058122	2.742666	RPL29P16	1.659653067	0	547.0328046	9.095484	RN7SKP38	0	0.829826533	893.1261388	9.80272						
FBXW9	74.84368431	498.9165564	6.666114329	2.736846	ENSG000001	1.659653067	0	547.0328046	9.095484	RNA5SP29	0	0.829826533	893.1261388	9.80272						
GDPD4	5.503212081	36.66870014	6.663145013	2.736203	TFDP3	1.659653067	0	547.0328046	9.095484	RNU6-1148P	0	0.829826533	893.1261388	9.80272						
GPR4	16.50963624	110.0061004	6.663145013	2.736203	KLRC4	1.659653067	0	547.0328046	9.095484	RNU6-370P	0	0.829826533	893.1261388	9.80272						
ISG15	28.61670282	190.0105371	6.639847303	2.73115	PRR32	1.659653067	0	547.0328046	9.095484	Y_RNA.110	0	0.829826533	893.1261388	9.80272						
PTGFR	14.30835141	94.44968217	6.601017787	2.722688	HOATZ	1.659653067	0	547.0328046	9.095484	RNA5SP184	0	0.829826533	893.1261388	9.80272						
SLC35G1	16.50963624	108.8949277	6.595840518	2.721557	RFLNB	1.659653067	0	547.0328046	9.095484	RNU2-72P	0	0.829826533	893.1261388	9.80272						
PHLDA1	192.6124229	1267.848087	6.582379619	2.718609	CLDN6	1.659653067	0	547.0328046	9.095484	RNU2-64P	0	0.829826533	893.1261388	9.80272						
SLC9B2	86.95075089	571.142784	6.568577938	2.715581	NSMCE3	1.659653067	0	547.0328046	9.095484	RN7SKP194	0	0.829826533	893.1261388	9.80272						
GHSR	4.402569665	28.89049102	6.562188271	2.714177	MFSD6L	1.659653067	0	547.0328046	9.095484	RN7SKP85	0	0.829826533	893.1261388	9.80272						
CNGA4	4.402569665	28.89049102	6.562188271	2.714177	SPATA45	1.659653067	0	547.0328046	9.095484	RNU2-71P	0	0.829826533	893.1261388	9.80272						
PDYN	2.201284833	14.44524551	6.562188271	2.714177	LYG2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
DPPA4	2.201284833	14.44524551	6.562188271	2.714177	C11orf87	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
GH2	2.201284833	14.44524551	6.562188271	2.714177	HDHD5-AS1	1.659653067	0	547.0328046	9.095484	CLDN10-AS1	0	0.829826533	893.1261388	9.80272						
CHCT1	2.201284833	14.44524551	6.562188271	2.714177	DEFB128	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ASB10	2.201284833	14.44524551	6.562188271	2.714177	LINC02610	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
CABP2	2.201284833	14.44524551	6.562188271	2.714177	ENSG000001	1.659653067	0	547.0328046	9.095484	VOPP1-DT	0	0.829826533	893.1261388	9.80272						
OR2T33	2.201284833	14.44524551	6.562188271	2.714177	SLC36A2	1.659653067	0	547.0328046	9.095484	NEFHP1	0	0.829826533	893.1261388	9.80272						
OR56A4	2.201284833	14.44524551	6.562188271	2.714177	ZNF501	1.659653067	0	547.0328046	9.095484	VPS52	0	0.829826533	893.1261388	9.80272						
CD300E	2.201284833	14.44524551	6.562188271	2.714177	SPATA12	1.659653067	0	547.0328046	9.095484	CDRT15	0	0.829826533	893.1261388	9.80272						
ASPDH	2.201284833	14.44524551	6.562188271	2.714177	ACTL7A	1.659653067	0	547.0328046	9.095484	CSNK1A1P1	0	0.829826533	893.1261388	9.80272						
IGSF23	2.201284833	14.44524551	6.562188271	2.714177	SAMD7	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
NUP35P1	2.201284833	14.44524551	6.562188271	2.714177	LCE3B	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
RPS3P3	2.201284833	14.44524551	6.562188271	2.714177	DHRS4L2	1.659653067	0	547.0328046	9.095484	SNRPBP1	0	0.829826533	893.1261388	9.80272						
BTBD18	2.201284833	14.44524551	6.562188271	2.714177	OR2B7P	1.659653067	0	547.0328046	9.095484	SMPD4P1	0	0.829826533	893.1261388	9.80272						
SPDYE19P	2.201284833	14.44524551	6.562188271	2.714177	CARD9	1.659653067	0	547.0328046	9.095484	TRIM60P17	0	0.829826533	893.1261388	9.80272						
SLC6A11	44.02569665	288.9049102	6.562188271	2.714177	ASCL4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
MGAT4C	13.207709	86.67147305	6.562188271	2.714177	OR6C6	1.659653067	0	547.0328046	9.095484	LINC01312	0	0.829826533	893.1261388	9.80272						
KLK14	6.603854498	43.33573653	6.562188271	2.714177	IFNA2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ACSBG2	6.603854498	43.33573653	6.562188271	2.714177	ENSG000001	1.659653067	0	547.0328046	9.095484	LINC01946	0	0.829826533	893.1261388	9.80272						
KRT8P46	6.603854498	43.33573653	6.562188271	2.714177	TEKT4P2	1.659653067	0	547.0328046	9.095484	LINC02601	0	0.829826533	893.1261388	9.80272						
B4GALNT1	42.92505424	281.1267011	6.549245098	2.711329	TMCO2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
NWD2	23.11349074	151.1194915	6.538150951	2.708883	LINC01164	1.659653067	0	547.0328046	9.095484	DNAJA1P1	0	0.829826533	893.1261388	9.80272						
SLC16A10	16.50963624	107.7837549	6.528536023	2.70676	LINC03042	1.659653067	0	547.0328046	9.095484	PSMD4P1	0	0.829826533	893.1261388	9.80272						
DOC2A	24.21413316	157.7865279	6.516298842	2.704053	CCDC196	1.659653067	0	547.0328046	9.095484	LINC01983	0	0.829826533	893.1261388	9.80272						
ZNF534	12.10706658	78.89326393	6.516298842	2.704053	POU3F4	1.659653067	0	547.0328046	9.095484	UBE2E1-AS1	0	0.829826533	893.1261388	9.80272						
PZP	11.00642416	71.11505481	6.461231528	2.691809	TEX43	1.659653067	0	547.0328046	9.095484	IL10RB-DT	0	0.829826533	893.1261388	9.80272						
SLC17A7	5.503212081	35.55752741	6.461231528	2.691809	ZNF679	1.659653067	0	547.0328046	9.095484	LINC01342	0	0.829826533	893.1261388	9.80272						
TIGD3	5.503212081	35.55752741	6.461231528	2.691809	ENSG000001	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
MEIS3P1	5.503212081	35.55752741	6.461231528	2.691809	HMGA2-AS	1.659653067	0	547.0328046	9.095484	LINC01805	0	0.829826533	893.1261388	9.80272						
STAB1	1029.100659	6647.035279	6.459072025	2.691327	UBE2Q2P12	1.659653067	0	547.0328046	9.095484	ABCC5-AS1	0	0.829826533	893.1261388	9.80272						
FAM110C	19.81156349	127.7848641	6.450014112	2.689302	OR5H2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SPATA24	8.80513933	56.6698093	6.435992342	2.686163	ZNF734P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ENSG000002	45.12633907	290.0160829	6.426758494	2.684091	TMPRSS11F	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SCNN1B	24.21413316	155.5641824	6.424519985	2.683589	CSAG1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
GMNC	25.31477557	162.2312188	6.408558445	2.68	MIR340	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
MBOAT7	6.603854498	42.22456379	6.393927033	2.676702	RNA5SP46	1.659653067	0	547.0328046	9.095484	ROR1-AS1	0	0.829826533	893.1261388	9.80272						
TXNDC2	6.603854498	42.22456379	6.393927033	2.676702	SNORD9	1.659653067	0	547.0328046	9.095484	H2ACP2	0	0.829826533	893.1261388	9.80272						
C1orf167	6.603854498	42.22456379	6.393927033	2.676702	RNA5SP295	1.659653067	0	547.0328046	9.095484	UBBP3	0	0.829826533	893.1261388	9.80272						
IBSP	3.301927249	21.1122819	6.393927033	2.676702	RNU6-862P	1.659653067	0	547.0328046	9.095484	RPL26P28	0	0.829826533	893.1261388	9.80272						
PRMT8	3.301927249	21.1122819	6.393927033	2.676702	RN7SKP95	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SLC13A5	3.301927249	21.1122819	6.393927033	2.676702	Y_RNA.10	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
FBXO39	3.301927249	21.1122819	6.393927033	2.676702	U3	1.659653067	0	547.0328046	9.095484	LINC02612	0	0.829826533	893.1261388	9.80272						
ZSCAN4	3.301927249	21.1122819	6.393927033	2.676702	RNU6-942P	1.659653067	0	547.0328046	9.095484	RPL23AP41	0	0.829826533	893.1261388	9.80272						
ZNF709	3.301927249	21.1122819	6.393927033	2.676702	RN7SKP149	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
PEAR1	53.9314784	344.4635467	6.387059227	2.675152	Y_RNA.21	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
PIDD1	52.83083598	336.6853376	6.372894378	2.671949	RNU6-697P	1.659653067	0	547.0328046	9.095484	LINC00570	0	0.829826533	893.1261388	9.80272						
PCDHGA1	14.30835141	91.11616398	6.368040689	2.67085	RNA5SP352	1.659653067	0	547.0328046	9.095484	LINC01991	0	0.829826533	893.1261388	9.80272						
GPR37	69.34047223	441.1355744	6.361877273	2.669453	RNA5SP393	1.659653067	0	547.0328046	9.095484	WARS2-IT1	0	0.829826533	893.1261388	9.80272						
CLEC1A	11.00642416	70.00388208	6.360274785	2.669089	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
TELO2	144.1841565	916.7175034	6.357962799	2.668565	Y_RNA.22	1.659653067	0	547.0328046	9.095484	PINCR	0	0.829826533	893.1261388	9.80272						
GPR39	7.704496914	48.89160018	6.345852394	2.665814	RNA5SP322	1.659653067	0	547.0328046	9.095484	ANKRD30BF	0	0.829826533	893.1261388	9.80272						
KIAA1549L	19.81156349	125.5625187	6.337839954	2.663991	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01567	0	0.829826533	893.1261388	9.80272						
TNNC1	24.21413316	153.3418369	6.332741128	2.66283	RNA5SP429	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SLC10A5	47.3276239	298.9054648	6.315665992	2.658935	RNU6-640P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
HCN2	8.80513933	55.55863657	6.309796414	2.657593	RNU6-414P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
OR7C2	4.402569665	27.77931829	6.309796414	2.657593	RNA5SP335	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
DRC7	4.402569665	27.77931829	6.309796414	2.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
BPIFB6	4.402569665	27.77931829	6.309796414	2.657593	SNORD14E	1.659653067	0	547.0328046	9.095484	SLC31A1P1	0	0.829826533	893.1261388	9.80272						
CFAP47	183.8072835	1157.841986	6.299217115	2.655173	RNU1-146P	1.659653067	0	547.0328046	9.095484	LINC01708	0	0.829826533	893.1261388	9.80272						
DCAF12L2	23.11349074	145.5636278	6.297777754	2.654843	Y_RNA.32	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ETV4	29.71734524	186.6770189	6.281752874	2.651167	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL7AP40	0	0.829826533	893.1261388	9.80272						
SLC29A4	41.82441182	262.2367646	6.269945068	2.648453	RNA5SP435	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
GPR84	5.503212081	34.44635467	6.259318043	2.646005	RNA5SP232	1.659653067	0	547.0328046	9.095484	LINC00620	0	0.829826533	893.1261388	9.80272						
HCN1	5.503212081	34.44635467	6.259318043	2.646005	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01087	0	0.829826533	893.1261388	9.80272						
RAPSN	5.503212081	34.44635467	6.259318043	2.646005	RNVU1-3	1.659653067	0	547.0328046	9.095484	LINC01754	0	0.829826533	893.1261388	9.80272						
PDZD4	72.64239948	454.4696472	6.256258747	2.6453	Y_RNA.38	1.659653067	0	547.0328046	9.095484	CIAO2AP2	0	0.829826533	893.1261388	9.80272						
INAFM1	18.71092108	116.6731368	6.235563515	2.64052	RNU4-40P	1.659653067	0	547.0328046	9.095484	MIR3659HG	0	0.829826533	893.1261388	9.80272						
PCSK1	6.603854498	41.11339106	6.225665795	2.638228	RN7SKP227	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
OR9A4	6.603854498	41.11339106	6.225665795	2.638228	RNU6-522P	1.659653067	0	547.0328046	9.095484	TGFA-IT1	0	0.829826533	893.1261388	9.80272						
PLEKHB1	69.34047223	430.0238471	6.201628476	2.632647	SNORA16B	1.659653067	0	547.0328046	9.095484	LINC01706	0	0.829826533	893.1261388	9.80272						
ACSM2A	7.704496914	47.78042745	6.201628476	2.632647	RN7SKP78	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
XDH	215.7259136	1334.51845	6.186175913	2.629048	SNORD113-	1.659653067	0	547.0328046	9.095484	NTM-AS1	0	0.829826533	893.1261388	9.80272						
ACOT7	53.9314784	332.2406467	6.160421642	2.623029	SNORD114-	1.659653067	0	547.0328046	9.095484	USP21P1	0	0.829826533	893.1261388	9.80272						
KIF19	12.10706658	74.44857301	6.149183414	2.620395	RNU1-43P	1.659653067	0	547.0328046	9.095484	SBF1P2	0	0.829826533	893.1261388	9.80272						
SCRIB	85.85010847	525.584702	6.122120418	2.614031	RNA5SP363	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
FCGRT	237.7387619	1452.30276	6.108817713	2.610893	RNU6-302P	1.659653067	0	547.0328046	9.095484	VTA1P1	0	0.829826533	893.1261388	9.80272						

FLVCR2	70.44111464	430.0238471	6.104728031	2.609927	SNORD113-	1.659653067	0	547.0328046	9.095484	RPL37P11	0	0.829826533	893.1261388	9.80272	
SLC11A1	27.51606041	167.7870824	6.097787255	2.608286	Y_RNA.57	1.659653067	0	547.0328046	9.095484	KIF4CP	0	0.829826533	893.1261388	9.80272	
FGFRL1	254.2483982	1548.974788	6.092367932	2.607003	RNU1-55P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PRX	134.2783748	816.7119576	6.082229986	2.6046	Y_RNA.62	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ABCA12	50.62955115	307.7948466	6.079351675	2.603917	Y_RNA.63	1.659653067	0	547.0328046	9.095484	OR7E116P	0	0.829826533	893.1261388	9.80272	
PLGRKT	53.9314784	327.7959558	6.078007974	2.603599	RNA5SP248	1.659653067	0	547.0328046	9.095484	WWC3-AS1	0	0.829826533	893.1261388	9.80272	
BTNL8	6.603854498	40.00221833	6.057404557	2.5987	LINC02408	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GDF10	6.603854498	40.00221833	6.057404557	2.5987	LINC00970	1.659653067	0	547.0328046	9.095484	ZBTB45P1	0	0.829826533	893.1261388	9.80272	
GJD2	3.301927249	20.00110917	6.057404557	2.5987	RHOT1P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR4A15	3.301927249	20.00110917	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	OSTM1-AS1	0	0.829826533	893.1261388	9.80272	
OR56A3	3.301927249	20.00110917	6.057404557	2.5987	LINC01285	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
HTR3D	3.301927249	20.00110917	6.057404557	2.5987	ADD3-AS1	1.659653067	0	547.0328046	9.095484	PPIAP8	0	0.829826533	893.1261388	9.80272	
CD101-AS1	3.301927249	20.00110917	6.057404557	2.5987	RHOXF2B	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	20.00110917	6.057404557	2.5987	LINC01270	1.659653067	0	547.0328046	9.095484	RPL21P107	0	0.829826533	893.1261388	9.80272	
PRR29-AS1	3.301927249	20.00110917	6.057404557	2.5987	MYCLP1	1.659653067	0	547.0328046	9.095484	RPS2P1	0	0.829826533	893.1261388	9.80272	
SELENOO-A	3.301927249	20.00110917	6.057404557	2.5987	LINC02731	1.659653067	0	547.0328046	9.095484	ARMC8P1	0	0.829826533	893.1261388	9.80272	
KMT2CP4	3.301927249	20.00110917	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CBLN4	5.503212081	33.33518194	6.057404557	2.5987	PSORS1C2	1.659653067	0	547.0328046	9.095484	NOLC1P1	0	0.829826533	893.1261388	9.80272	
VGF	5.503212081	33.33518194	6.057404557	2.5987	MUC21	1.659653067	0	547.0328046	9.095484	OSTCP2	0	0.829826533	893.1261388	9.80272	
VAX2	4.402569665	26.66814555	6.057404557	2.5987	KRTAP5-11	1.659653067	0	547.0328046	9.095484	SFTA1P	0	0.829826533	893.1261388	9.80272	
PSKH2	4.402569665	26.66814555	6.057404557	2.5987	C5orf60	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR10G3	4.402569665	26.66814555	6.057404557	2.5987	PSG5	1.659653067	0	547.0328046	9.095484	ELF2P4	0	0.829826533	893.1261388	9.80272	
SYCE1	4.402569665	26.66814555	6.057404557	2.5987	CCNI2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CES3	4.402569665	26.66814555	6.057404557	2.5987	REXO1L1P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CNTN2	4.402569665	26.66814555	6.057404557	2.5987	SLC10A5P1	1.659653067	0	547.0328046	9.095484	RPL22P4	0	0.829826533	893.1261388	9.80272	
OR7D2	4.402569665	26.66814555	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND1P34	0	0.829826533	893.1261388	9.80272	
TOX4P1	4.402569665	26.66814555	6.057404557	2.5987	CLEC6A	1.659653067	0	547.0328046	9.095484	MTCO3P20	0	0.829826533	893.1261388	9.80272	
IL21R-AS1	4.402569665	26.66814555	6.057404557	2.5987	HBZP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DYNC1I2	2.201284833	13.33407278	6.057404557	2.5987	RNVU1-7	1.659653067	0	547.0328046	9.095484	TRIM53AP	0	0.829826533	893.1261388	9.80272	
ACTRT1	2.201284833	13.33407278	6.057404557	2.5987	SNORA22B	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FGFBP1	2.201284833	13.33407278	6.057404557	2.5987	SNORD116-	1.659653067	0	547.0328046	9.095484	LINCMD1	0	0.829826533	893.1261388	9.80272	
HTR3B	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.67	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LYZL2	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.73	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
UGT2A1	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.74	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TAS1R2	2.201284833	13.33407278	6.057404557	2.5987	RNU6-418P	1.659653067	0	547.0328046	9.095484	CCNT2P1	0	0.829826533	893.1261388	9.80272	
OR52D1	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.75	1.659653067	0	547.0328046	9.095484	NRG3-AS1	0	0.829826533	893.1261388	9.80272	
BPIFA1	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.77	1.659653067	0	547.0328046	9.095484	LINC02036	0	0.829826533	893.1261388	9.80272	
CATIP-AS1	2.201284833	13.33407278	6.057404557	2.5987	SNORA5A	1.659653067	0	547.0328046	9.095484	CROCCP1	0	0.829826533	893.1261388	9.80272	
CDC20P1	2.201284833	13.33407278	6.057404557	2.5987	RNU6-767P	1.659653067	0	547.0328046	9.095484	ACE2-DT	0	0.829826533	893.1261388	9.80272	
CLIC1P1	2.201284833	13.33407278	6.057404557	2.5987	RNU6-761P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TRIM67-AS1	2.201284833	13.33407278	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	WDR87BP	0	0.829826533	893.1261388	9.80272	
CAP1P1	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.78	1.659653067	0	547.0328046	9.095484	ANKRD65-A	0	0.829826533	893.1261388	9.80272	
IGKV1D-17	2.201284833	13.33407278	6.057404557	2.5987	RNU6-708P	1.659653067	0	547.0328046	9.095484	RPL26P36	0	0.829826533	893.1261388	9.80272	
GLYATL1B	2.201284833	13.33407278	6.057404557	2.5987	RNU6-1226F	1.659653067	0	547.0328046	9.095484	LINC01745	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	13.33407278	6.057404557	2.5987	Y_RNA.83	1.659653067	0	547.0328046	9.095484	RIMKLBP2	0	0.829826533	893.1261388	9.80272	
OR51B2	2.201284833	13.33407278	6.057404557	2.5987	SNORA2B	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CEACAM7	1.100642416	6.667036389	6.057404557	2.5987	RNU6-658P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SMIM24	1.100642416	6.667036389	6.057404557	2.5987	Y_RNA.90	1.659653067	0	547.0328046	9.095484	PRICKLE2-A	0	0.829826533	893.1261388	9.80272	
OSM	1.100642416	6.667036389	6.057404557	2.5987	Y_RNA.91	1.659653067	0	547.0328046	9.095484	RWDD3-DT	0	0.829826533	893.1261388	9.80272	
EPPIN	1.100642416	6.667036389	6.057404557	2.5987	Y_RNA.96	1.659653067	0	547.0328046	9.095484	ZP3P2	0	0.829826533	893.1261388	9.80272	
CACNG7	1.100642416	6.667036389	6.057404557	2.5987	Y_RNA.98	1.659653067	0	547.0328046	9.095484	HNRNPA3P4	0	0.829826533	893.1261388	9.80272	
PAEP	1.100642416	6.667036389	6.057404557	2.5987	MIR602	1.659653067	0	547.0328046	9.095484	SLC39A12-A	0	0.829826533	893.1261388	9.80272	
GDAP1L1	1.100642416	6.667036389	6.057404557	2.5987	MIR573	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CDKN1C	1.100642416	6.667036389	6.057404557	2.5987	MIR186	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BCAN	1.100642416	6.667036389	6.057404557	2.5987	MIR590	1.659653067	0	547.0328046	9.095484	PSMC1P12	0	0.829826533	893.1261388	9.80272	
MMD2	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL26P9	0	0.829826533	893.1261388	9.80272	
ATP13A2	1.100642416	6.667036389	6.057404557	2.5987	MIR626	1.659653067	0	547.0328046	9.095484	EIF4A1P5	0	0.829826533	893.1261388	9.80272	
IVL	1.100642416	6.667036389	6.057404557	2.5987	MIR221	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CAMP	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	ELOCP21	0	0.829826533	893.1261388	9.80272	
FABP7	1.100642416	6.667036389	6.057404557	2.5987	MIR561	1.659653067	0	547.0328046	9.095484	CLK3P2	0	0.829826533	893.1261388	9.80272	
C22orf15	1.100642416	6.667036389	6.057404557	2.5987	MT-TY	1.659653067	0	547.0328046	9.095484	RPS3AP27	0	0.829826533	893.1261388	9.80272	
SLC6A19	1.100642416	6.667036389	6.057404557	2.5987	MT-TK	1.659653067	0	547.0328046	9.095484	RBISP1	0	0.829826533	893.1261388	9.80272	
OR51S1	1.100642416	6.667036389	6.057404557	2.5987	MT-TL2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CACYBPP2	1.100642416	6.667036389	6.057404557	2.5987	MIR3065	1.659653067	0	547.0328046	9.095484	KRT18P36	0	0.829826533	893.1261388	9.80272	
ODF3	1.100642416	6.667036389	6.057404557	2.5987	IGLV6-57	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KCNG2	1.100642416	6.667036389	6.057404557	2.5987	TRGV1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZFP42	1.100642416	6.667036389	6.057404557	2.5987	TRAV13-1	1.659653067	0	547.0328046	9.095484	RPS3AP10	0	0.829826533	893.1261388	9.80272	
GPR3	1.100642416	6.667036389	6.057404557	2.5987	TRAV24	1.659653067	0	547.0328046	9.095484	PDCL3P1	0	0.829826533	893.1261388	9.80272	
AQP7P2	1.100642416	6.667036389	6.057404557	2.5987	TRAV26-1	1.659653067	0	547.0328046	9.095484	RPL23AP28	0	0.829826533	893.1261388	9.80272	
URAD	1.100642416	6.667036389	6.057404557	2.5987	TRAV26-2	1.659653067	0	547.0328046	9.095484	TMEM252-D	0	0.829826533	893.1261388	9.80272	
MRGPRX2	1.100642416	6.667036389	6.057404557	2.5987	TRAV36DV	1.659653067	0	547.0328046	9.095484	TERF1P5	0	0.829826533	893.1261388	9.80272	
OR7E31P	1.100642416	6.667036389	6.057404557	2.5987	TRDC	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AMY1C	1.100642416	6.667036389	6.057404557	2.5987	TRAJ34	1.659653067	0	547.0328046	9.095484	OR7H1P	0	0.829826533	893.1261388	9.80272	
OR7A11P	1.100642416	6.667036389	6.057404557	2.5987	TRAJ26	1.659653067	0	547.0328046	9.095484	LINC01824	0	0.829826533	893.1261388	9.80272	
DEFB121	1.100642416	6.667036389	6.057404557	2.5987	TRAJ24	1.659653067	0	547.0328046	9.095484	RPL26P27	0	0.829826533	893.1261388	9.80272	
C1QTNF9B	1.100642416	6.667036389	6.057404557	2.5987	RNU6-750P	1.659653067	0	547.0328046	9.095484	IPMKP1	0	0.829826533	893.1261388	9.80272	
FTH1P12	1.100642416	6.667036389	6.057404557	2.5987	Y_RNA.100	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AKR1B1P3	1.100642416	6.667036389	6.057404557	2.5987	RNU6-1246F	1.659653067	0	547.0328046	9.095484	LINC00390	0	0.829826533	893.1261388	9.80272	
PSMC1P11	1.100642416	6.667036389	6.057404557	2.5987	RNU11-3P	1.659653067	0	547.0328046	9.095484	MLXP1	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	U3.3	1.659653067	0	547.0328046	9.095484	NPM1P49	0	0.829826533	893.1261388	9.80272	
NF1P6	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	OR52M2P	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	AURKAP1	1.659653067	0	547.0328046	9.095484	LINC00974	0	0.829826533	893.1261388	9.80272	
BRAFP1	1.100642416	6.667036389	6.057404557	2.5987	PPP1R14BP2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR4F2P	1.100642416	6.667036389	6.057404557	2.5987	RPL7AP37	1.659653067	0	547.0328046	9.095484	MIR217HG	0	0.829826533	893.1261388	9.80272	
AIFM1P1	1.100642416	6.667036389	6.057404557	2.5987	RPL17P41	1.659653067	0	547.0328046	9.095484	SDCBPP1	0	0.829826533	893.1261388	9.80272	
UBXN7-AS1	1.100642416	6.667036389	6.057404557	2.5987	ST13P10	1.659653067	0	547.0328046	9.095484	LINC01709	0	0.829826533	893.1261388	9.80272	
PHF2P2	1.100642416	6.667036389	6.057404557	2.5987	LINC00671	1.659653067	0	547.0328046	9.095484	LINC02554	0	0.829826533	893.1261388	9.80272	
OSTCP8	1.100642416	6.667036389	6.057404557	2.5987	PP1P	1.659653067	0	547.0328046	9.095484	VPS25P1	0	0.829826533	893.1261388	9.80272	
THRAP3P1	1.100642416	6.667036389	6.057404557	2.5987	RPS2P17	1.659653067	0	547.0328046	9.095484	PP12613	0	0.829826533	893.1261388	9.80272	
TLE1P1	1.100642416	6.667036389	6.057404557	2.5987	KRT222	1.659653067	0	547.0328046	9.095484	TBCAP1	0	0.829826533	893.1261388	9.80272	
OR9H1P	1.100642416	6.667036389	6.057404557	2.5987	RPL32P15	1.659653067	0	547.0328046	9.095484	WBP11P2	0	0.829826533	893.1261388	9.80272	
ZFYVE9P1	1.100642416	6.667036389	6.057404557	2.5987	RPL36P7	1.659653067	0	547.0328046	9.095484	LINC00840	0	0.829826533	893.1261388	9.80272	
RPSAP8	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CEACAMP5	1.100642416	6.667036389	6.057404557	2.5987	PHB1P7	1.659653067	0	547.0328046	9.095484	ARHGAP29-J	0	0.829826533	893.1261388	9.80272	
KRT17P6	1.100642416	6.667036389	6.057404557	2.5987	FAM209B	1.659653067	0	547.0328046	9.095484	RPS29P10	0	0.829826533	893.1261388	9.80272	
RNF14P1	1.100642416	6.667036389	6.057404557	2.5987	RAB5CP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
USH2A-AS2	1.100642416	6.667036389	6.057404557	2.5987	RPS3AP20	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
EIF4A1P2	1.100642416	6.667036389	6.057404557	2.5987	ACTBP15	1.659653067	0	547.0328046	9.095484	LINC00454	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	CHCHD4P4	1.659653067	0	547.0328046	9.095484	ALG1L5P	0	0.829826533	893.1261388	9.80272	
VTI1BP1	1.100642416	6.667036389	6.057404557	2.5987	RBM39P1	1.659653067	0	547.0328046	9.095484	NEDD8P1	0	0.829826533	893.1261388	9.80272	
CXXC4-AS1	1.100642416	6.667036389	6.057404557	2.5987	RPS4XP1	1.659653067	0	547.0328046	9.095484	LINC01203	0	0.829826533	893.1261388	9.80272	

CBX3P3	1.100642416	6.667036389	6.057404557	2.5987	NPS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	ATP5MC1P6	1.659653067	0	547.0328046	9.095484	LINC00658	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	SMARCE1P6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ALDH1A2-AS	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	PARP1P1	0	0.829826533	893.1261388	9.80272
MOCS1P1	1.100642416	6.667036389	6.057404557	2.5987	NPM1P31	1.659653067	0	547.0328046	9.095484	CRIP1P3	0	0.829826533	893.1261388	9.80272
OR4K8P	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01630	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	GPR33	1.659653067	0	547.0328046	9.095484	PRR20D	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	TBC1D26	1.659653067	0	547.0328046	9.095484	DDX11L16	0	0.829826533	893.1261388	9.80272
ARL14EPL	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	THEM7P	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	RPL7AP26	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PDLIM1P1	1.100642416	6.667036389	6.057404557	2.5987	AKAP17BP	1.659653067	0	547.0328046	9.095484	LRRC2P1	0	0.829826533	893.1261388	9.80272
RN7SL726P	1.100642416	6.667036389	6.057404557	2.5987	LINC00269	1.659653067	0	547.0328046	9.095484	CNN2P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	ATXN7L3P1	1.659653067	0	547.0328046	9.095484	MIS18A-AS1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	LINC01020	1.659653067	0	547.0328046	9.095484	RPL39P25	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	CHMP5P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	KRTAP10-4	1.659653067	0	547.0328046	9.095484	KRT16P2	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	RPL27AP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	6.667036389	6.057404557	2.5987	OR7E37P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOXG1	15.40899383	93.33850944	6.057404557	2.5987	ESRRAP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GNAT2	7.704496914	46.66925472	6.057404557	2.5987	RSC1A1	1.659653067	0	547.0328046	9.095484	LINC01806	0	0.829826533	893.1261388	9.80272
FTH1P11	7.704496914	46.66925472	6.057404557	2.5987	MARCKSL1	1.659653067	0	547.0328046	9.095484	KRT8P20	0	0.829826533	893.1261388	9.80272
OLFM2	86.95075089	524.4735292	6.031845888	2.5926	MIR944	1.659653067	0	547.0328046	9.095484	ACNATP	0	0.829826533	893.1261388	9.80272
NALCN	31.91863007	192.2328825	6.022591888	2.590385	R3HDM2P2	1.659653067	0	547.0328046	9.095484	HNRNPA1P6	0	0.829826533	893.1261388	9.80272
CRLF1	24.21413316	145.5636278	6.011515129	2.587729	LY86-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WDR90	249.8458285	1498.972015	5.999587921	2.584863	SYCE3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADGRG6	274.0599617	1641.202124	5.988478267	2.582189	NDUFAB1P	1.659653067	0	547.0328046	9.095484	MYO1B-AS1	0	0.829826533	893.1261388	9.80272
C17orf100	13.207709	78.89326393	5.973273939	2.578522	KRT19P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ONECUT2	12.10706658	72.22622754	5.965625701	2.576673	RPL7P28	1.659653067	0	547.0328046	9.095484	CERS6-AS1	0	0.829826533	893.1261388	9.80272
TEKT5	8.80513933	52.22511838	5.931208629	2.568326	ENSG000002	1.659653067	0	547.0328046	9.095484	PHB1P11	0	0.829826533	893.1261388	9.80272
MYH6	8.80513933	52.22511838	5.931208629	2.568326	RPS3AP2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WDR87	26.41541799	156.6753551	5.931208629	2.568326	ENSG000002	1.659653067	0	547.0328046	9.095484	UST-AS1	0	0.829826533	893.1261388	9.80272
PSENEN	7.704496914	45.55808199	5.913180639	2.563934	SPTLC1P3	1.659653067	0	547.0328046	9.095484	ATP5F1AP2	0	0.829826533	893.1261388	9.80272
SLC2A5	37.42184215	221.1233736	5.908938759	2.562899	KRASP1	1.659653067	0	547.0328046	9.095484	LINC00111	0	0.829826533	893.1261388	9.80272
PCDHGA7	108.9635992	643.3690115	5.904439796	2.5618	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VWA5B2	14.30835141	84.44912759	5.902086492	2.561225	ENSG000002	1.659653067	0	547.0328046	9.095484	NTRAS	0	0.829826533	893.1261388	9.80272
CHRM4	6.603854498	38.8910456	5.88914332	2.558058	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL7P12	0	0.829826533	893.1261388	9.80272
ATP4A	5.503212081	32.22400921	5.855491072	2.54979	U3.4	1.659653067	0	547.0328046	9.095484	ASH1L-IT1	0	0.829826533	893.1261388	9.80272
HRG	5.503212081	32.22400921	5.855491072	2.54979	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMPRSS5	5.503212081	32.22400921	5.855491072	2.54979	SNORD88A	1.659653067	0	547.0328046	9.095484	SEPTIN2P1	0	0.829826533	893.1261388	9.80272
PAX6	9.905781747	57.78098203	5.833056241	2.544252	MIR1284	1.659653067	0	547.0328046	9.095484	KRT8P44	0	0.829826533	893.1261388	9.80272
MATN4	8.80513933	51.11394565	5.805012701	2.537299	MIR1301	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACSBG1	4.402569665	25.55697282	5.805012701	2.537299	MIR1285-1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
POM121L2	4.402569665	25.55697282	5.805012701	2.537299	SNORD99	1.659653067	0	547.0328046	9.095484	RAB11AP1	0	0.829826533	893.1261388	9.80272
PDIA2	4.402569665	25.55697282	5.805012701	2.537299	ENSG000002	1.659653067	0	547.0328046	9.095484	WBP11P3	0	0.829826533	893.1261388	9.80272
CYP2A7	4.402569665	25.55697282	5.805012701	2.537299	MIR1252	1.659653067	0	547.0328046	9.095484	RPL21P87	0	0.829826533	893.1261388	9.80272
OR8S1	4.402569665	25.55697282	5.805012701	2.537299	MRPS21P3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DPP3	115.5674537	666.7036389	5.768956721	2.52831	KIAA2012-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GLDN	15.40899383	88.89381852	5.768956721	2.52831	SNORA73.1	1.659653067	0	547.0328046	9.095484	SPTBN1-AS1	0	0.829826533	893.1261388	9.80272
PAPOLB	7.704496914	44.44690926	5.768956721	2.52831	RN7SKP139	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPFIA2	149.6873686	863.3812123	5.767896251	2.528045	RN7SKP56	1.659653067	0	547.0328046	9.095484	MDN1-AS1	0	0.829826533	893.1261388	9.80272
TMEM129	111.164884	640.0354933	5.757533045	2.525451	RNU6-1140F	1.659653067	0	547.0328046	9.095484	LINC01649	0	0.829826533	893.1261388	9.80272
SUSD5	17.61027866	101.1167186	5.741914737	2.521532	Y_RNA.106	1.659653067	0	547.0328046	9.095484	LINC01494	0	0.829826533	893.1261388	9.80272
APCDD1	741.8329886	4259.12508	5.741353034	2.521391	RNA5SP345	1.659653067	0	547.0328046	9.095484	CASP16P	0	0.829826533	893.1261388	9.80272
ANAPC11	48.42826632	277.7931829	5.736178558	2.52009	RNU2-63P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDKN2A	24.21413316	138.8965914	5.736178558	2.52009	Y_RNA.109	1.659653067	0	547.0328046	9.095484	NPM1P30	0	0.829826533	893.1261388	9.80272
GLDC	33.01927249	188.8993643	5.720882082	2.516238	RNA5SP104	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRPM5	6.603854498	37.77987287	5.720882082	2.516238	RN7SKP137	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAB21L3	6.603854498	37.77987287	5.720882082	2.516238	RN7SKP264	1.659653067	0	547.0328046	9.095484	UMLILO	0	0.829826533	893.1261388	9.80272
TNFAIP8L1	6.603854498	37.77987287	5.720882082	2.516238	RN7SKP296	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSME1	3.301927249	18.88993643	5.720882082	2.516238	RNU2-22P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NECAB2	3.301927249	18.88993643	5.720882082	2.516238	ZNF385D-AS	1.659653067	0	547.0328046	9.095484	GLIS3-AS2	0	0.829826533	893.1261388	9.80272
SH3GL2	3.301927249	18.88993643	5.720882082	2.516238	EHHADH-AS	1.659653067	0	547.0328046	9.095484	AMD1P1	0	0.829826533	893.1261388	9.80272
POMC	3.301927249	18.88993643	5.720882082	2.516238	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NXPH2	3.301927249	18.88993643	5.720882082	2.516238	TMSB4XP4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2T8	3.301927249	18.88993643	5.720882082	2.516238	RPL17P13	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
POTEC	3.301927249	18.88993643	5.720882082	2.516238	BCL10-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	18.88993643	5.720882082	2.516238	ENSG000002	1.659653067	0	547.0328046	9.095484	RPS20P25	0	0.829826533	893.1261388	9.80272
RNPS1P1	3.301927249	18.88993643	5.720882082	2.516238	LAPTM4A-I	1.659653067	0	547.0328046	9.095484	GAS2L1P2	0	0.829826533	893.1261388	9.80272
RAB39B	22.01284833	125.5625187	5.704055958	2.511988	PYDC2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RAMP1	180.5053563	1028.945949	5.700362419	2.511054	ENSG000002	1.659653067	0	547.0328046	9.095484	REL-DT	0	0.829826533	893.1261388	9.80272
SLC25A39	301.5760221	1714.539525	5.68526474	2.507228	ENSG000002	1.659653067	0	547.0328046	9.095484	DHFRP2	0	0.829826533	893.1261388	9.80272
MYH7	8.80513933	50.00277291	5.678816773	2.50559	RPL32P35	1.659653067	0	547.0328046	9.095484	LINC01546	0	0.829826533	893.1261388	9.80272
SPATA31D1	8.80513933	50.00277291	5.678816773	2.50559	TRDD1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
XKR9	8.80513933	50.00277291	5.678816773	2.50559	LINC01449	1.659653067	0	547.0328046	9.095484	DNAJB6P4	0	0.829826533	893.1261388	9.80272
HS6ST2	14.30835141	81.11560939	5.669109394	2.503122	TCEAL3-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LSS	92.45396297	523.3623565	5.660788783	2.501003	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DCP1B	36.32119974	205.5669553	5.659696177	2.500725	UBE2FP1	1.659653067	0	547.0328046	9.095484	CFTRP1	0	0.829826533	893.1261388	9.80272
C6orf226	11.00642416	62.22567296	5.653577587	2.499164	CENPVL3	1.659653067	0	547.0328046	9.095484	MTND4P1	0	0.829826533	893.1261388	9.80272
SLC16A6	24.21413316	136.674246	5.644399701	2.49682	AMMECR1-	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	13.207709	74.44857301	5.636751463	2.494864	LINC02054	1.659653067	0	547.0328046	9.095484	HNF4GP1	0	0.829826533	893.1261388	9.80272
B3GALT6	46.22698148	260.0144192	5.624732803	2.491785	SDHDP6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATP2A1	23.11349074	130.0072096	5.624732803	2.491785	ZCRB1P1	1.659653067	0	547.0328046	9.095484	PSMD10P1	0	0.829826533	893.1261388	9.80272
PIGUP1	9.905781747	55.55863657	5.608707924	2.487668	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TTC3P1	125.4732355	702.2611663	5.596900117	2.484628	MTCO1P39	1.659653067	0	547.0328046	9.095484	LINC00448	0	0.829826533	893.1261388	9.80272
IGSF11	14.30835141	80.00443666	5.591450361	2.483223	MSL3P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FIBIN	62.73661773	350.0194104	5.579188408	2.480055	ENSG000002	1.659653067	0	547.0328046	9.095484	TNKS2-DT	0	0.829826533	893.1261388	9.80272
TSPAN12	141.9828717	791.1549848	5.572186105	2.478243	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPN2	133.1777324	741.1522119	5.565136143	2.476417	SLC25A34-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCGN	6.603854498	36.66870014	5.552620844	2.473169	TANK-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FRMPD2B	6.603854498	36.66870014	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02521	0	0.829826533	893.1261388	9.80272
FREY1	6.603854498	36.66870014	5.552620844	2.473169	CDHR18P	1.659653067	0	547.0328046	9.095484	MIR365BHG	0	0.829826533	893.1261388	9.80272
SLC17A1	4.402569665	24.44580009	5.552620844	2.473169	LINC00365	1.659653067	0	547.0328046	9.095484	WEE2-AS1	0	0.829826533	893.1261388	9.80272
FAAP24	4.402569665	24.44580009	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	PDE4DIPP10	0	0.829826533	893.1261388	9.80272
PGLYRP3	4.402569665	24.44580009	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLHL38	4.402569665	24.44580009	5.552620844	2.473169	UBE2V1P13	1.659653067	0	547.0328046	9.095484	ATP5MFP2	0	0.829826533	893.1261388	9.80272
TEX38	4.402569665	24.44580009	5.552620844	2.473169	OR9R1P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLA2G4E	4.402569665	24.44580009	5.552620844	2.473169	ETV7-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP17L18	4.402569665	24.44580009	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL23AP26	0	0.829826533	893.1261388	9.80272
PDF	4.402569665	24.44580009	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01428	0	0.829826533	893.1261388	9.80272
SLC13A2	2.201284833	12.22290005	5.552620844	2.473169	CENPIP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

TCF15	2.201284833	12.22290005	5.552620844	2.473169	NQO2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CRNN	2.201284833	12.22290005	5.552620844	2.473169	OPA1-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MAGEC3	2.201284833	12.22290005	5.552620844	2.473169	GXYLT1P2	1.659653067	0	547.0328046	9.095484	MTND1P9	0	0.829826533	893.1261388	9.80272	
LMO1	2.201284833	12.22290005	5.552620844	2.473169	LINC02262	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DNAI2	2.201284833	12.22290005	5.552620844	2.473169	PARP4P2	1.659653067	0	547.0328046	9.095484	SPRR2C	0	0.829826533	893.1261388	9.80272	
OR4D9	2.201284833	12.22290005	5.552620844	2.473169	RC3H1-DT	1.659653067	0	547.0328046	9.095484	RPS3AP54	0	0.829826533	893.1261388	9.80272	
CCR9	2.201284833	12.22290005	5.552620844	2.473169	TMEM233	1.659653067	0	547.0328046	9.095484	OR5AW1P	0	0.829826533	893.1261388	9.80272	
BNIP3P1	2.201284833	12.22290005	5.552620844	2.473169	SETP20	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR6C68	2.201284833	12.22290005	5.552620844	2.473169	RPS12P10	1.659653067	0	547.0328046	9.095484	PIK3CA-DT	0	0.829826533	893.1261388	9.80272	
HNRNPA1P3	2.201284833	12.22290005	5.552620844	2.473169	HRGP1	1.659653067	0	547.0328046	9.095484	SRMP3	0	0.829826533	893.1261388	9.80272	
TRBV2	2.201284833	12.22290005	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	KCTD9P6	0	0.829826533	893.1261388	9.80272	
ANKRD11P1	2.201284833	12.22290005	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00377	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	12.22290005	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR5H3P	2.201284833	12.22290005	5.552620844	2.473169	LRRK2-DT	1.659653067	0	547.0328046	9.095484	EEF1DP6	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	12.22290005	5.552620844	2.473169	CT62	1.659653067	0	547.0328046	9.095484	LINC02768	0	0.829826533	893.1261388	9.80272	
OR5L1	2.201284833	12.22290005	5.552620844	2.473169	TMEM246-A	1.659653067	0	547.0328046	9.095484	TUBB8P1	0	0.829826533	893.1261388	9.80272	
VN1R1	11.00642416	61.11450023	5.552620844	2.473169	CYP4A22-A	1.659653067	0	547.0328046	9.095484	SREK1IP1P1	0	0.829826533	893.1261388	9.80272	
RAB41	8.80513933	48.89160018	5.552620844	2.473169	TMA7B	1.659653067	0	547.0328046	9.095484	ACTG1P9	0	0.829826533	893.1261388	9.80272	
CARNS1	8.80513933	48.89160018	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DYTN	8.80513933	48.89160018	5.552620844	2.473169	ENSG000002	1.659653067	0	547.0328046	9.095484	TAF12-DT	0	0.829826533	893.1261388	9.80272	
KLF2	133.1777324	738.9298664	5.548449078	2.472085	SAR1AP3	1.659653067	0	547.0328046	9.095484	LINC02069	0	0.829826533	893.1261388	9.80272	
CPXM1	37.42184215	206.678128	5.522927685	2.465433	TMED2P1	1.659653067	0	547.0328046	9.095484	THEMIS3P	0	0.829826533	893.1261388	9.80272	
INHA	16.50963624	91.11616398	5.518968597	2.464399	FAM225B	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ALKBH7	92.45396297	510.0282837	5.516564865	2.46377	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00404	0	0.829826533	893.1261388	9.80272	
TP53I13	61.63597531	340.0188558	5.516564865	2.46377	LINC02816	1.659653067	0	547.0328046	9.095484	RABGAP1L-	0	0.829826533	893.1261388	9.80272	
SHC2	201.4175622	1105.616868	5.489178083	2.45659	C3orf86P	1.659653067	0	547.0328046	9.095484	SACS-AS1	0	0.829826533	893.1261388	9.80272	
SLC10A6	7.704496914	42.22456379	5.480508885	2.45431	ENSG000002	1.659653067	0	547.0328046	9.095484	SUCLA2P3	0	0.829826533	893.1261388	9.80272	
ITM2A	38.52248457	211.122819	5.480508885	2.45431	ZFAND3-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CRB1	28.61670282	156.6753551	5.474961812	2.452849	GTF2IP14	1.659653067	0	547.0328046	9.095484	SKP2P1	0	0.829826533	893.1261388	9.80272	
CCDC154	13.207709	72.22622754	5.468490225	2.451143	PAICSP1	1.659653067	0	547.0328046	9.095484	LCEP2	0	0.829826533	893.1261388	9.80272	
ENSG000002	13.207709	72.22622754	5.468490225	2.451143	ENSG000002	1.659653067	0	547.0328046	9.095484	FTLP16	0	0.829826533	893.1261388	9.80272	
RETREG1	97.95717505	535.5852566	5.467544938	2.450893	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
UVSSA	375.319064	2050.11369	5.462322292	2.449514	LINC02519	1.659653067	0	547.0328046	9.095484	DYNLT3P2	0	0.829826533	893.1261388	9.80272	
YRDC	29.71734524	162.2312188	5.459142379	2.448674	NPIPB14P	1.659653067	0	547.0328046	9.095484	KRT18P26	0	0.829826533	893.1261388	9.80272	
SLCO4C1	11.00642416	60.0033275	5.451664102	2.446697	RPL12P10	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CAPN11	5.503212081	30.00166375	5.451664102	2.446697	RAD23BP3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GLUD2	5.503212081	30.00166375	5.451664102	2.446697	LINC00351	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
H4C15	5.503212081	30.00166375	5.451664102	2.446697	ST7-AS2	1.659653067	0	547.0328046	9.095484	OGFR-AS1	0	0.829826533	893.1261388	9.80272	
AFF2	52.83083598	287.7937374	5.447457571	2.445583	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
IKBKG	12.10706658	65.55919115	5.414952559	2.436949	RPL15P13	1.659653067	0	547.0328046	9.095484	ELOCP3	0	0.829826533	893.1261388	9.80272	
TRIM9	18.71092108	101.1167186	5.404155046	2.434069	ENSG000002	1.659653067	0	547.0328046	9.095484	KIF25-AS1	0	0.829826533	893.1261388	9.80272	
RNFT2	38.52248457	207.7893008	5.393974535	2.431349	PAPPA-AS2	1.659653067	0	547.0328046	9.095484	IL9RP1	0	0.829826533	893.1261388	9.80272	
ARHGEF16	97.95717505	527.8070474	5.388140758	2.429788	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
IGSF8	467.7730269	2519.028582	5.385151424	2.428987	ENSG000002	1.659653067	0	547.0328046	9.095484	MAGEA4-AS	0	0.829826533	893.1261388	9.80272	
ADGRG4	19.81156349	106.6725822	5.384359607	2.428775	LHFPL3-AS1	1.659653067	0	547.0328046	9.095484	SNAP47-AS1	0	0.829826533	893.1261388	9.80272	
NPHS1	9.905781747	53.33629111	5.384359607	2.428775	TRPC6P10	1.659653067	0	547.0328046	9.095484	IGSF21-AS1	0	0.829826533	893.1261388	9.80272	
ITLN2	6.603854498	35.55752741	5.384359607	2.428775	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NAALADL1	6.603854498	35.55752741	5.384359607	2.428775	BSN-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DHRSX	6.603854498	35.55752741	5.384359607	2.428775	HMGN1P24	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DHRS2	3.301927249	17.7787637	5.384359607	2.428775	LINC01692	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GRIN3B	3.301927249	17.7787637	5.384359607	2.428775	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01790	0	0.829826533	893.1261388	9.80272	
CFAP161	3.301927249	17.7787637	5.384359607	2.428775	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR2T12	3.301927249	17.7787637	5.384359607	2.428775	LINC02876	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR5AC2	3.301927249	17.7787637	5.384359607	2.428775	LINC01153	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TRAV22	3.301927249	17.7787637	5.384359607	2.428775	IL21-AS1	1.659653067	0	547.0328046	9.095484	XXYLT1-AS2	0	0.829826533	893.1261388	9.80272	
USP17L15	3.301927249	17.7787637	5.384359607	2.428775	GXYLT1P7	1.659653067	0	547.0328046	9.095484	PGAM1P3	0	0.829826533	893.1261388	9.80272	
CASP1P2	3.301927249	17.7787637	5.384359607	2.428775	LINC02832	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	17.7787637	5.384359607	2.428775	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	17.7787637	5.384359607	2.428775	LINC01537	1.659653067	0	547.0328046	9.095484	TOMM20P4	0	0.829826533	893.1261388	9.80272	
STAB2	17.61027866	94.44968217	5.363326952	2.423128	RPL39P16	1.659653067	0	547.0328046	9.095484	MTCO1P42	0	0.829826533	893.1261388	9.80272	
CACNA1F	14.30835141	76.67091847	5.358473262	2.421822	TSSK5P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SOCS7	22.01284833	117.7843095	5.350707359	2.41973	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL4P3	0	0.829826533	893.1261388	9.80272	
SHC4	11.00642416	58.89215477	5.350707359	2.41973	LINC01074	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CLEC18A	7.704496914	41.11339106	5.336284967	2.415836	LINC01714	1.659653067	0	547.0328046	9.095484	LINC01747	0	0.829826533	893.1261388	9.80272	
TUBB2B	31.91863007	170.0094279	5.32633849	2.413144	ISCA1P6	1.659653067	0	547.0328046	9.095484	RPL23P5	0	0.829826533	893.1261388	9.80272	
SLC26A11	139.7815869	744.4857301	5.326064375	2.41307	ENSG000002	1.659653067	0	547.0328046	9.095484	CTF2P	0	0.829826533	893.1261388	9.80272	
FNDC1	29.71734524	157.7865279	5.309576834	2.408597	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01381	0	0.829826533	893.1261388	9.80272	
B3GNT8	22.01284833	116.6731368	5.300228988	2.406055	LINC02803	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AMPD1	8.80513933	46.66925472	5.300228988	2.406055	ENSG000002	1.659653067	0	547.0328046	9.095484	HMGB1P49	0	0.829826533	893.1261388	9.80272	
PDE6A	8.80513933	46.66925472	5.300228988	2.406055	MRLN	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PPEF2	8.80513933	46.66925472	5.300228988	2.406055	LINC02344	1.659653067	0	547.0328046	9.095484	CALM1P2	0	0.829826533	893.1261388	9.80272	
TGM1	4.402569665	23.33462736	5.300228988	2.406055	RBM15-AS1	1.659653067	0	547.0328046	9.095484	TEX48	0	0.829826533	893.1261388	9.80272	
SLC7A10	4.402569665	23.33462736	5.300228988	2.406055	PIN4P1	1.659653067	0	547.0328046	9.095484	HMGB1P27	0	0.829826533	893.1261388	9.80272	
CRB2	4.402569665	23.33462736	5.300228988	2.406055	PABPC4-AS	1.659653067	0	547.0328046	9.095484	HM13-AS1	0	0.829826533	893.1261388	9.80272	
CYP17A1	4.402569665	23.33462736	5.300228988	2.406055	MTATP6P11	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SYNDIG1L	4.402569665	23.33462736	5.300228988	2.406055	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01818	0	0.829826533	893.1261388	9.80272	
HTR3E	4.402569665	23.33462736	5.300228988	2.406055	ENSG000002	1.659653067	0	547.0328046	9.095484	GRPEL2P3	0	0.829826533	893.1261388	9.80272	
OR2L2	4.402569665	23.33462736	5.300228988	2.406055	ENSG000002	1.659653067	0	547.0328046	9.095484	MRPL35P4	0	0.829826533	893.1261388	9.80272	
ENSG000002	4.402569665	23.33462736	5.300228988	2.406055	COL6A4P2	1.659653067	0	547.0328046	9.095484	FN1-DT	0	0.829826533	893.1261388	9.80272	
MAP3K15	9.905781747	52.22511838	5.272185448	2.398401	LINC01350	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LRP8	90.25267814	475.5819291	5.269449493	2.397652	MYADM-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DMBT1	25.31477557	133.3407278	5.267308311	2.397066	LINC00687	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
5_8S_rRNA.1	25.31477557	133.3407278	5.267308311	2.397066	ENSG000002	1.659653067	0	547.0328046	9.095484	ZNF341-AS1	0	0.829826533	893.1261388	9.80272	
GOT2P2	5.503212081	28.89049102	5.249750616	2.392249	ENSG000002	1.659653067	0	547.0328046	9.095484	NFU1P1	0	0.829826533	893.1261388	9.80272	
CHST2	49.52890873	260.0144192	5.249750616	2.392249	RPL15P18	1.659653067	0	547.0328046	9.095484	RPL31P2	0	0.829826533	893.1261388	9.80272	
TFPI2	38.52248457	202.2334371	5.249750616	2.392249	ITPKB-AS1	1.659653067	0	547.0328046	9.095484	RPL10P11	0	0.829826533	893.1261388	9.80272	
PLEKHH1	1373.601736	7207.066336	5.246838403	2.391448	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZFPM2	40.7237694	213.3451644	5.238836374	2.389246	VN1R4	1.659653067	0	547.0328046	9.095484	HMGB1P25	0	0.829826533	893.1261388	9.80272	
MYO15A	52.83083598	276.6820101	5.237131024	2.388777	ROCR	1.659653067	0	547.0328046	9.095484	LINC00692	0	0.829826533	893.1261388	9.80272	
FLG	41.82441182	218.9010281	5.233810078	2.387862	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCO1P53	0	0.829826533	893.1261388	9.80272	
PCARE	24.21413316	126.6736914	5.231394845	2.387196	SPATA13.1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MUC3A	140.8822293	735.5963482	5.221356533	2.384425	HMGB3P4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NQO1	26.41541799	137.7854187	5.216098369	2.382971	LAMA5-AS1	1.659653067	0	547.0328046	9.095484	CUBNP1	0	0.829826533	893.1261388	9.80272	
SLC17A9	13.207709	68.89270935	5.216098369	2.382971	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00326	0	0.829826533	893.1261388	9.80272	
CALML6	6.603854498	34.44635467	5.216098369	2.382971	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL6P6	0	0.829826533	893.1261388	9.80272	
CYP4A11	6.603854498	34.44635467	5.216098369	2.382971	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	6.603854498	34.44635467	5.216098369	2.382971	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02655	0	0.829826533	893.1261388	9.80272	
PKD1P4	35.22055732	183.3435007	5.205582042	2.380059	PSMA6P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MFSD3	58.33404806	303.3501557	5.200224667	2.378574	SMPD4P2	1.659653067	0	547.0328046	9.095484	LINC01436	0	0.829826533	893.1261388	9.80272	
DQX1	7.704496914	40.00221833	5.192061049	2.376307	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
POU5F1B	7.704496914	40.00221833	5.192061049	2.376307	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	

FAM107A	48.42826632	251.1250373	5.185505417	2.374485	MT1P3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TEKTIP1	24.21413316	125.5625187	5.185505417	2.374485	LINC01981	1.659653067	0	547.0328046	9.095484	LINC01098	0	0.829826533	893.1261388	9.80272
CAPN14	16.50963624	85.56030032	5.182446121	2.373633	LPGAT1-AS	1.659653067	0	547.0328046	9.095484	HNRNPA1P2	0	0.829826533	893.1261388	9.80272
FRAT1	8.80513933	45.55808199	5.17403306	2.371289	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC183	8.80513933	45.55808199	5.17403306	2.371289	NME2P3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
XKR8	26.41541799	136.674246	5.17403306	2.371289	LINC00452	1.659653067	0	547.0328046	9.095484	LINC01640	0	0.829826533	893.1261388	9.80272
FAM20A	133.1777324	688.9270935	5.172990118	2.370998	ENSG000002	1.659653067	0	547.0328046	9.095484	HMGN2P10	0	0.829826533	893.1261388	9.80272
CLU	3470.325539	17949.8843	5.172392072	2.370832	RPL17P1	1.659653067	0	547.0328046	9.095484	TBL1XR1-AS	0	0.829826533	893.1261388	9.80272
SELENBP1	482.0813783	2482.359882	5.149254864	2.364364	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GABRR2	12.10706658	62.22567296	5.139615988	2.361661	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ULBP3	12.10706658	62.22567296	5.139615988	2.361661	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL31P34	0	0.829826533	893.1261388	9.80272
AKAP17A	12.10706658	62.22567296	5.139615988	2.361661	LINC01718	1.659653067	0	547.0328046	9.095484	ARL4AP4	0	0.829826533	893.1261388	9.80272
TLE6	14.30835141	73.33740027	5.125496164	2.357692	LINC02851	1.659653067	0	547.0328046	9.095484	RPL36AP8	0	0.829826533	893.1261388	9.80272
ACOT1	17.61027866	90.00499125	5.110935095	2.353587	ENSG000002	1.659653067	0	547.0328046	9.095484	FILNC1	0	0.829826533	893.1261388	9.80272
FREM1	366.5139246	1870.103707	5.102408343	2.351178	MYOSLID	1.659653067	0	547.0328046	9.095484	WASIR2	0	0.829826533	893.1261388	9.80272
HOXB13	1073.126356	5472.525702	5.09960982	2.350387	ITGB1-DT	1.659653067	0	547.0328046	9.095484	TIMM8AP1	0	0.829826533	893.1261388	9.80272
NTRK3	315.8843735	1605.644597	5.083013697	2.345684	MAST4-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EXD3	148.5867262	754.4862846	5.07775024	2.344189	ENSG000002	1.659653067	0	547.0328046	9.095484	JKAMPP1	0	0.829826533	893.1261388	9.80272
ENSG000002	9.905781747	50.00277291	5.047837131	2.335665	CRPPA-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HROB	18.71092108	94.44968217	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02782	0	0.829826533	893.1261388	9.80272
CALB1	8.80513933	44.44690926	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CXCL13	8.80513933	44.44690926	5.047837131	2.335665	DNAJC8P4	1.659653067	0	547.0328046	9.095484	RPS6P2	0	0.829826533	893.1261388	9.80272
HS6ST3	7.704496914	38.8910456	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	RSL24D1P11	0	0.829826533	893.1261388	9.80272
LIPI	5.503212081	27.77931829	5.047837131	2.335665	SEPTIN7P7	1.659653067	0	547.0328046	9.095484	ATP5MKP1	0	0.829826533	893.1261388	9.80272
LRRC46	4.402569665	22.22345463	5.047837131	2.335665	LINC01435	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LAP3P2	4.402569665	22.22345463	5.047837131	2.335665	BIRC6-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	22.22345463	5.047837131	2.335665	TCERG1L-A	1.659653067	0	547.0328046	9.095484	LINC01307	0	0.829826533	893.1261388	9.80272
KCNA5	3.301927249	16.66759097	5.047837131	2.335665	RABGEF1P2	1.659653067	0	547.0328046	9.095484	EIF1P3	0	0.829826533	893.1261388	9.80272
NKX2-1	3.301927249	16.66759097	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00574	0	0.829826533	893.1261388	9.80272
HTR3A	3.301927249	16.66759097	5.047837131	2.335665	PHB1P4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MUC20	3.301927249	16.66759097	5.047837131	2.335665	LINC02926	1.659653067	0	547.0328046	9.095484	VN1R110P	0	0.829826533	893.1261388	9.80272
RIIAD1	3.301927249	16.66759097	5.047837131	2.335665	ELOVL2-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMIM23	3.301927249	16.66759097	5.047837131	2.335665	OR3D1P	1.659653067	0	547.0328046	9.095484	ITCH-IT1	0	0.829826533	893.1261388	9.80272
RNA5-8SN4	3.301927249	16.66759097	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	STAT4-AS1	0	0.829826533	893.1261388	9.80272
KRT32	2.201284833	11.11172731	5.047837131	2.335665	LINC00276	1.659653067	0	547.0328046	9.095484	KRT17P3	0	0.829826533	893.1261388	9.80272
ALOX12	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C4BPB	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DUSP9	2.201284833	11.11172731	5.047837131	2.335665	LINC00332	1.659653067	0	547.0328046	9.095484	MTND2P24	0	0.829826533	893.1261388	9.80272
HABP2	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	CT69	0	0.829826533	893.1261388	9.80272
FEZF2	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RAET1L	2.201284833	11.11172731	5.047837131	2.335665	VN1R108P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMED6	2.201284833	11.11172731	5.047837131	2.335665	ANKRD63	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCKAR	2.201284833	11.11172731	5.047837131	2.335665	ARHGAP26-	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPIC	2.201284833	11.11172731	5.047837131	2.335665	KIF19BP	1.659653067	0	547.0328046	9.095484	RPL32P28	0	0.829826533	893.1261388	9.80272
MOGAT2	2.201284833	11.11172731	5.047837131	2.335665	TMBIM7P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOXA3	2.201284833	11.11172731	5.047837131	2.335665	MIR205HG	1.659653067	0	547.0328046	9.095484	LINC02043	0	0.829826533	893.1261388	9.80272
FRG2C	2.201284833	11.11172731	5.047837131	2.335665	HMGN1P5	1.659653067	0	547.0328046	9.095484	ACTR3P2	0	0.829826533	893.1261388	9.80272
PDZK1	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNA4	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TCHHL1	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C6orf58	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC03002	0	0.829826533	893.1261388	9.80272
LHFPL3	2.201284833	11.11172731	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KRTAP26-1	2.201284833	11.11172731	5.047837131	2.335665	RPL7L1P9	1.659653067	0	547.0328046	9.095484	SEMA3B-AS	0	0.829826533	893.1261388	9.80272
CEACAM16	2.201284833	11.11172731	5.047837131	2.335665	GYG1P3	1.659653067	0	547.0328046	9.095484	FTLP2	0	0.829826533	893.1261388	9.80272
GAB4	2.201284833	11.11172731	5.047837131	2.335665	SPATA20P1	1.659653067	0	547.0328046	9.095484	LINC00112	0	0.829826533	893.1261388	9.80272
DDX10P2	2.201284833	11.11172731	5.047837131	2.335665	HAR1B	1.659653067	0	547.0328046	9.095484	EPB41L1-AS	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	11.11172731	5.047837131	2.335665	TRBV26OR9	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	11.11172731	5.047837131	2.335665	CCNQP3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLEC19A	2.201284833	11.11172731	5.047837131	2.335665	LINC01593	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	11.11172731	5.047837131	2.335665	ARPP19P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLA2G3	1.100642416	5.555863657	5.047837131	2.335665	CFAP97D1	1.659653067	0	547.0328046	9.095484	FAM136BP	0	0.829826533	893.1261388	9.80272
HOXB1	1.100642416	5.555863657	5.047837131	2.335665	APCDD1L-D	1.659653067	0	547.0328046	9.095484	ACTG1P21	0	0.829826533	893.1261388	9.80272
INSL4	1.100642416	5.555863657	5.047837131	2.335665	WBP1P1	1.659653067	0	547.0328046	9.095484	LINC01628	0	0.829826533	893.1261388	9.80272
PLAAT1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	AP1B1P2	0	0.829826533	893.1261388	9.80272
RAB33A	1.100642416	5.555863657	5.047837131	2.335665	FAM225A	1.659653067	0	547.0328046	9.095484	RPS12P3	0	0.829826533	893.1261388	9.80272
CFC1	1.100642416	5.555863657	5.047837131	2.335665	LINC01249	1.659653067	0	547.0328046	9.095484	LINC03033	0	0.829826533	893.1261388	9.80272
SLAMF9	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	SLC25A6P3	0	0.829826533	893.1261388	9.80272
LCE3D	1.100642416	5.555863657	5.047837131	2.335665	RFESDP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR1K1	1.100642416	5.555863657	5.047837131	2.335665	CD109-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDH16	1.100642416	5.555863657	5.047837131	2.335665	ARHGEF9-I	1.659653067	0	547.0328046	9.095484	CYCSP10	0	0.829826533	893.1261388	9.80272
TPD52L3	1.100642416	5.555863657	5.047837131	2.335665	NANOGP10	1.659653067	0	547.0328046	9.095484	LINC02543	0	0.829826533	893.1261388	9.80272
MRGPRD	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCO1P57	0	0.829826533	893.1261388	9.80272
KRT28	1.100642416	5.555863657	5.047837131	2.335665	AKAIN1	1.659653067	0	547.0328046	9.095484	CICP26	0	0.829826533	893.1261388	9.80272
PMCH	1.100642416	5.555863657	5.047837131	2.335665	HMGB3P14	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KRTAP23-1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	PTCHD1-AS	0	0.829826533	893.1261388	9.80272
POU5F1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL12P3	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	IDH1-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LDHBP2	1.100642416	5.555863657	5.047837131	2.335665	NEBL-AS1	1.659653067	0	547.0328046	9.095484	KLF4P1	0	0.829826533	893.1261388	9.80272
PRDX1P1	1.100642416	5.555863657	5.047837131	2.335665	TEX50	1.659653067	0	547.0328046	9.095484	RPS24P13	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	RPS15AP12	1.659653067	0	547.0328046	9.095484	MAPRE1P3	0	0.829826533	893.1261388	9.80272
ATP13A4-AS	1.100642416	5.555863657	5.047837131	2.335665	LINC02805	1.659653067	0	547.0328046	9.095484	KCNJ6-AS1	0	0.829826533	893.1261388	9.80272
RPL36AP7	1.100642416	5.555863657	5.047837131	2.335665	DAOA-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TTC3-AS1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL29P17	1.100642416	5.555863657	5.047837131	2.335665	VIPR1-AS1	1.659653067	0	547.0328046	9.095484	VKORC1P1	0	0.829826533	893.1261388	9.80272
RPL7P46	1.100642416	5.555863657	5.047837131	2.335665	KNOP1P4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EZR-AS1	1.100642416	5.555863657	5.047837131	2.335665	MTND5P3	1.659653067	0	547.0328046	9.095484	XXYLT1-AS	0	0.829826533	893.1261388	9.80272
TECRP1	1.100642416	5.555863657	5.047837131	2.335665	LINC02777	1.659653067	0	547.0328046	9.095484	MTCO1P54	0	0.829826533	893.1261388	9.80272
ZNF593OS	1.100642416	5.555863657	5.047837131	2.335665	EEF1A1P3	1.659653067	0	547.0328046	9.095484	PPIAP32	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	LINC01431	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ST13P12	1.100642416	5.555863657	5.047837131	2.335665	LINC01780	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRIM60P14	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	PDXP-DT	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	ITGA6-AS1	1.659653067	0	547.0328046	9.095484	MTND4P20	0	0.829826533	893.1261388	9.80272
SRSF3P1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	RPS2P48	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	LINC01700	1.659653067	0	547.0328046	9.095484	BETALINC1	0	0.829826533	893.1261388	9.80272
SPECC1L-AI	1.100642416	5.555863657	5.047837131	2.335665	SMG7-AS1	1.659653067	0	547.0328046	9.095484	RPL7P35	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	RANP8	0	0.829826533	893.1261388	9.80272
MIA	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	MKNK2P1	0	0.829826533	893.1261388	9.80272
SNORD3B-2	1.100642416	5.555863657	5.047837131	2.335665	PLCE1-AS2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	MTND6P24	1.659653067	0	547.0328046	9.095484	CYCSP33	0	0.829826533	893.1261388	9.80272
MRPL12	1.100642416	5.555863657	5.047837131	2.335665	PANK1-AS1	1.659653067	0	547.0328046	9.095484	RPS3AP8	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	LINC01722	1.659653067	0	547.0328046	9.095484	EIF4EP1	0	0.829826533	893.1261388	9.80272

RYKP1	1.100642416	5.555863657	5.047837131	2.335665	SAR1AP4	1.659653067	0	547.0328046	9.095484	HNRNPA1P4	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	GPR158-AS1	0	0.829826533	893.1261388	9.80272	
RAET1E-AS1	1.100642416	5.555863657	5.047837131	2.335665	LINC00642	1.659653067	0	547.0328046	9.095484	ARHGEF7-IT	0	0.829826533	893.1261388	9.80272	
MKI67P1	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	CENPNP1	0	0.829826533	893.1261388	9.80272	
TBC1D3K	1.100642416	5.555863657	5.047837131	2.335665	RPS6P12	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TEX13D	1.100642416	5.555863657	5.047837131	2.335665	LINC00028	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	TARDBPP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	1.100642416	5.555863657	5.047837131	2.335665	ENSG000002	1.659653067	0	547.0328046	9.095484	CLDN14-AS1	0	0.829826533	893.1261388	9.80272	
HELZ2	607.5546138	3063.503221	5.042350352	2.334096	LINC01222	1.659653067	0	547.0328046	9.095484	GIRGL	0	0.829826533	893.1261388	9.80272	
SLC3A2	353.3062156	1775.654025	5.025821642	2.329359	ENSG000002	1.659653067	0	547.0328046	9.095484	ERCC8-AS1	0	0.829826533	893.1261388	9.80272	
FAAP100	184.9079259	927.8292308	5.017790482	2.327052	AGGF1P2	1.659653067	0	547.0328046	9.095484	MFN1P1	0	0.829826533	893.1261388	9.80272	
SEMA5B	29.71734524	148.897146	5.010445745	2.324939	PPP6R2P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CFAP65	28.61670282	143.3412824	5.009007615	2.324525	ENSG000002	1.659653067	0	547.0328046	9.095484	LONRF2P2	0	0.829826533	893.1261388	9.80272	
NOL4	27.51606041	137.7854187	5.007454434	2.324077	PTPRT-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BHLHE40	852.9978726	4270.236807	5.006151767	2.323702	DNM3-IT1	1.659653067	0	547.0328046	9.095484	LINC02650	0	0.829826533	893.1261388	9.80272	
CASP9	113.3661689	566.698093	4.998829004	2.32159	LINC01884	1.659653067	0	547.0328046	9.095484	RCC2P3	0	0.829826533	893.1261388	9.80272	
FLG-AS1	61.63597531	307.7948466	4.993753162	2.320125	ANAPC1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PLCH2	16.50963624	82.22678213	4.980532636	2.3163	MTFR2P1	1.659653067	0	547.0328046	9.095484	RPS20P10	0	0.829826533	893.1261388	9.80272	
UNKL	126.5738779	630.0349387	4.977606354	2.315452	GOT2P3	1.659653067	0	547.0328046	9.095484	LINC01360	0	0.829826533	893.1261388	9.80272	
CYP4X1	75.94432672	377.7987287	4.974680071	2.314604	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SRCIN1	14.30835141	71.11505481	4.970178098	2.313298	LINC01237	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PKD1P5	128.7751627	640.0354933	4.970178098	2.313298	ENSG000002	1.659653067	0	547.0328046	9.095484	SPATA17-AS	0	0.829826533	893.1261388	9.80272	
INO80D	40.7237694	202.2334371	4.965980313	2.312079	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SPATC1	13.207709	65.55919115	4.963706512	2.311418	MTCO2P17	1.659653067	0	547.0328046	9.095484	FRMD4A-AS	0	0.829826533	893.1261388	9.80272	
SOX8	12.10706658	60.0033275	4.956058274	2.309193	RPSAP13	1.659653067	0	547.0328046	9.095484	SRP14P2	0	0.829826533	893.1261388	9.80272	
SLC38A10	823.2805274	4079.115097	4.954708585	2.3088	TLE1-DT	1.659653067	0	547.0328046	9.095484	RPL13AP6	0	0.829826533	893.1261388	9.80272	
AMH	44.02569665	217.7898554	4.946880389	2.306519	NUDT9P1	1.659653067	0	547.0328046	9.095484	RHBDF1P1	0	0.829826533	893.1261388	9.80272	
TAFA4	11.00642416	54.44746384	4.946880389	2.306519	KRT19P4	1.659653067	0	547.0328046	9.095484	RBPMSLP	0	0.829826533	893.1261388	9.80272	
SMIM11	11.00642416	54.44746384	4.946880389	2.306519	ELOBP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ORM2	9.905781747	48.89160018	4.935662973	2.303244	ELOBP4	1.659653067	0	547.0328046	9.095484	PIGO-AS1	0	0.829826533	893.1261388	9.80272	
PGBD5	17.61027866	86.67147305	4.921641203	2.299139	AIMP1P1	1.659653067	0	547.0328046	9.095484	H2AZ2-DT	0	0.829826533	893.1261388	9.80272	
MYO7B	8.80513933	43.33573653	4.921641203	2.299139	H3P3	1.659653067	0	547.0328046	9.095484	LINC01781	0	0.829826533	893.1261388	9.80272	
ZNF556	8.80513933	43.33573653	4.921641203	2.299139	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
COL5A3	90.25267814	443.3579198	4.912407355	2.29643	CDCA4P4	1.659653067	0	547.0328046	9.095484	CT66	0	0.829826533	893.1261388	9.80272	
UMOD	7.704496914	37.77987287	4.903613213	2.293845	ENSG000002	1.659653067	0	547.0328046	9.095484	RBPJP7	0	0.829826533	893.1261388	9.80272	
ENSG000002	7.704496914	37.77987287	4.903613213	2.293845	LINC01878	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DVL1	283.9657434	1390.077087	4.895228102	2.291376	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL7L1P1	0	0.829826533	893.1261388	9.80272	
GPM6A	20.91220591	102.2278913	4.888431748	2.289372	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01937	0	0.829826533	893.1261388	9.80272	
ERC2	52.83083598	257.7920737	4.879575894	2.286756	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00229	0	0.829826533	893.1261388	9.80272	
TYR	6.603854498	32.22400921	4.879575894	2.286756	KBTBD13	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SINHCAF	6.603854498	32.22400921	4.879575894	2.286756	ACTL11P	1.659653067	0	547.0328046	9.095484	RPS26P47	0	0.829826533	893.1261388	9.80272	
IGKV1OR2-1	6.603854498	32.22400921	4.879575894	2.286756	CDC20-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
H4C2	71.54175706	348.9082377	4.876987259	2.28599	HMGA1P4	1.659653067	0	547.0328046	9.095484	RPSAP31	0	0.829826533	893.1261388	9.80272	
AGPAT4	38.52248457	187.7881916	4.87476843	2.285334	GULOP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CD207	12.10706658	58.89215477	4.864279417	2.282226	FAM151AP1	1.659653067	0	547.0328046	9.095484	LINC03025	0	0.829826533	893.1261388	9.80272	
FAM3D	52.83083598	256.680901	4.858543239	2.280524	H2AC5P	1.659653067	0	547.0328046	9.095484	LINC02765	0	0.829826533	893.1261388	9.80272	
LRRC74A	5.503212081	26.66814555	4.845923646	2.276772	IQCM	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BEST4	5.503212081	26.66814555	4.845923646	2.276772	MIR155HG	1.659653067	0	547.0328046	9.095484	LINC01506	0	0.829826533	893.1261388	9.80272	
CXCR5	5.503212081	26.66814555	4.845923646	2.276772	RAB17-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MAGEE2	5.503212081	26.66814555	4.845923646	2.276772	LINC02966	1.659653067	0	547.0328046	9.095484	NDUFB1P2	0	0.829826533	893.1261388	9.80272	
ZNF98	5.503212081	26.66814555	4.845923646	2.276772	JAKMIP3-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF878	5.503212081	26.66814555	4.845923646	2.276772	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
A1BG-AS1	5.503212081	26.66814555	4.845923646	2.276772	RPL7P8	1.659653067	0	547.0328046	9.095484	MTND1P26	0	0.829826533	893.1261388	9.80272	
MROH1	607.5546138	2940.163047	4.839339511	2.27481	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DNAH3	30.81798766	148.897146	4.831501254	2.272472	LINC02532	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NOS1	82.54818122	397.7998379	4.819001848	2.268734	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RYR1	191.5117804	922.2733671	4.815752665	2.267761	ITGA9-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CFAP119	18.71092108	90.00499125	4.810291854	2.266124	SKAP1-AS2	1.659653067	0	547.0328046	9.095484	OTX2P1	0	0.829826533	893.1261388	9.80272	
VSNL1	17.61027866	84.44912759	4.795445275	2.261665	SAPCD2P2	1.659653067	0	547.0328046	9.095484	HMGN2P5	0	0.829826533	893.1261388	9.80272	
KCNC1	8.80513933	42.22456379	4.795445275	2.261665	LINC00345	1.659653067	0	547.0328046	9.095484	RIPOR3-AS1	0	0.829826533	893.1261388	9.80272	
DDC	8.80513933	42.22456379	4.795445275	2.261665	LINC00298	1.659653067	0	547.0328046	9.095484	GPR50-AS1	0	0.829826533	893.1261388	9.80272	
SPOCD1	8.80513933	42.22456379	4.795445275	2.261665	ENSG000002	1.659653067	0	547.0328046	9.095484	PRUNEP1	0	0.829826533	893.1261388	9.80272	
CHRNB3	8.80513933	42.22456379	4.795445275	2.261665	SNRPGP5	1.659653067	0	547.0328046	9.095484	TUBB8P11	0	0.829826533	893.1261388	9.80272	
GMPSP1	8.80513933	42.22456379	4.795445275	2.261665	BRD7P5	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FTCD	4.402569665	21.1122819	4.795445275	2.261665	LINC00607	1.659653067	0	547.0328046	9.095484	LINC02817	0	0.829826533	893.1261388	9.80272	
ODF3L2	4.402569665	21.1122819	4.795445275	2.261665	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL26P29	0	0.829826533	893.1261388	9.80272	
KLHL2P1	4.402569665	21.1122819	4.795445275	2.261665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TLCD5	22.01284833	105.5614095	4.795445275	2.261665	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GDF6	13.207709	63.33684569	4.795445275	2.261665	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02632	0	0.829826533	893.1261388	9.80272	
CFAP54	125.4732355	601.1444477	4.791017347	2.260332	ENSG000002	1.659653067	0	547.0328046	9.095484	GRK3-AS1	0	0.829826533	893.1261388	9.80272	
PLXNA4	221.2291257	1058.947613	4.786655509	2.259018	ARHGEF7-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TMEM54	159.5931504	762.2644938	4.776298306	2.255893	PKMP2	1.659653067	0	547.0328046	9.095484	APOC2	0	0.829826533	893.1261388	9.80272	
KLHL17	36.32119974	173.3429461	4.77250056	2.254745	MORC2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CCDC103	12.10706658	57.78098203	4.77250056	2.254745	RPL13AP12	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
IDUA	272.9593192	1301.183269	4.76694942	2.253066	ENSG000002	1.659653067	0	547.0328046	9.095484	GRID1-AS1	0	0.829826533	893.1261388	9.80272	
GAA	82.54818122	393.3551469	4.765158252	2.252524	ENSG000002	1.659653067	0	547.0328046	9.095484	FTH1P2	0	0.829826533	893.1261388	9.80272	
ANO2	107.8629568	513.3618019	4.759389295	2.250776	TCEA1P4	1.659653067	0	547.0328046	9.095484	PRADX	0	0.829826533	893.1261388	9.80272	
TTBK1	7.704496914	36.66870014	4.759389295	2.250776	ENSG000002	1.659653067	0	547.0328046	9.095484	VDAC1P4	0	0.829826533	893.1261388	9.80272	
SHISA2	7.704496914	36.66870014	4.759389295	2.250776	EEF1A1P23	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ABTB1	136.4796596	648.9248752	4.754736911	2.249366	SLC12A9-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GPAA1	187.1092108	887.8270124	4.744966903	2.246398	OR51B8P	1.659653067	0	547.0328046	9.095484	TP73-AS2	0	0.829826533	893.1261388	9.80272	
TREML1	11.00642416	52.22511838	4.744966903	2.246398	ENSG000002	1.659653067	0	547.0328046	9.095484	HSP90AB6P	0	0.829826533	893.1261388	9.80272	
ENSG000002	11.00642416	52.22511838	4.744966903	2.246398	SLC35G4	1.659653067	0	547.0328046	9.095484	COX6CP17	0	0.829826533	893.1261388	9.80272	
GSTA1	39.62312699	187.7881916	4.739358195	2.244692	VLDLR-AS1	1.659653067	0	547.0328046	9.095484	LINC01366	0	0.829826533	893.1261388	9.80272	
PIWIL2	31.91863007	151.1194915	4.734523102	2.243219	ATG10-IT1	1.659653067	0	547.0328046	9.095484	NUCB1-AS1	0	0.829826533	893.1261388	9.80272	
NSMF	258.6509678	1222.290005	4.725634761	2.240508	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MAGEC2	6.603854498	31.11283648	4.711314656	2.23613	RPL34P10	1.659653067	0	547.0328046	9.095484	LINC00383	0	0.829826533	893.1261388	9.80272	
CHRNB2	6.603854498	31.11283648	4.711314656	2.23613	LINC00896	1.659653067	0	547.0328046	9.095484	SUMO2P1	0	0.829826533	893.1261388	9.80272	
NIPA1	6.603854498	31.11283648	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR2M3	6.603854498	31.11283648	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FAUP1	6.603854498	31.11283648	4.711314656	2.23613	HNRNPA1P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ODAD1	3.301927249	15.55641824	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL12P25	0	0.829826533	893.1261388	9.80272	
TULP1	3.301927249	15.55641824	4.711314656	2.23613	EIF1AXP1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GABRG2	3.301927249	15.55641824	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
HHLA2	3.301927249	15.55641824	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND4P31	0	0.829826533	893.1261388	9.80272	
CHAC1	3.301927249	15.55641824	4.711314656	2.23613	RPL17P16	1.659653067	0	547.0328046	9.095484	CYMP-AS1	0	0.829826533	893.1261388	9.80272	
ATP6V0D2	3.301927249	15.55641824	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	DRG1P1	0	0.829826533	893.1261388	9.80272	
FRMD1	3.301927249	15.55641824	4.711314656	2.23613	LINC02827	1.659653067	0	547.0328046	9.095484	KATNBL1P3	0	0.829826533	893.1261388	9.80272	
OR13H1	3.301927249	15.55641824	4.711314656	2.23613	NF1P8	1.659653067	0	547.0328046	9.095484	MTATP6P17	0	0.829826533	893.1261388	9.80272	
ADGRD2	3.301927249	15.55641824	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	TRAPPC13P1	0	0.829826533	893.1261388	9.80272	

POU3F3	3.301927249	15.55641824	4.711314656	2.23613	DDX10P1	1.659653067	0	547.0328046	9.095484	LINC01664	0	0.829826533	893.1261388	9.80272	
LRRC10B	3.301927249	15.55641824	4.711314656	2.23613	RPL12P27	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	15.55641824	4.711314656	2.23613	ZBTB40-IT1	1.659653067	0	547.0328046	9.095484	HEBP2P1	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	15.55641824	4.711314656	2.23613	MAPK6P3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SMIM17	3.301927249	15.55641824	4.711314656	2.23613	RSL24D1P8	1.659653067	0	547.0328046	9.095484	ST13P2	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	15.55641824	4.711314656	2.23613	RLIMP2	1.659653067	0	547.0328046	9.095484	OR7E110P	0	0.829826533	893.1261388	9.80272	
SNX32	9.905781747	46.66925472	4.711314656	2.23613	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
D2HGDH	402.8351244	1894.549507	4.703039513	2.233593	PATE4	1.659653067	0	547.0328046	9.095484	LINC00484	0	0.829826533	893.1261388	9.80272	
LRRN1	2895.790197	13617.42182	4.702489095	2.233425	TUSC8	1.659653067	0	547.0328046	9.095484	MIR670HG	0	0.829826533	893.1261388	9.80272	
PCDHGB1	84.74946605	397.7998379	4.693832969	2.230767	LINC03062	1.659653067	0	547.0328046	9.095484	LDHAP2	0	0.829826533	893.1261388	9.80272	
JUND	563.5289171	2644.591101	4.692911083	2.230483	CAMTA1-IT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SIX2	18.71092108	87.78264578	4.691519216	2.230055	WAKMAR2	1.659653067	0	547.0328046	9.095484	LINC00993	0	0.829826533	893.1261388	9.80272	
ABCA7	247.6445437	1161.175504	4.688879824	2.229243	UNC5B-AS1	1.659653067	0	547.0328046	9.095484	KRT18P46	0	0.829826533	893.1261388	9.80272	
CCNL2	1101.743059	5161.397338	4.684755939	2.227974	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC03050	0	0.829826533	893.1261388	9.80272	
NEURL2	27.51606041	128.8960368	4.684392858	2.227862	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
UCN	12.10706658	56.6698093	4.680721703	2.226731	BANF1P3	1.659653067	0	547.0328046	9.095484	DPYD-AS2	0	0.829826533	893.1261388	9.80272	
CCNO	20.91220591	97.78320037	4.675891237	2.225241	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RLN1	226.7323378	1060.058786	4.675375362	2.225082	AMY1A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF233	38.52248457	180.0099825	4.672854944	2.224304	ENSG000002	1.659653067	0	547.0328046	9.095484	MYL6P2	0	0.829826533	893.1261388	9.80272	
OLFML2A	88.0513933	411.1339106	4.669249346	2.223191	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NAB1	280.6638162	1310.07265	4.667764688	2.222732	ENSG000002	1.659653067	0	547.0328046	9.095484	PRELID1P3	0	0.829826533	893.1261388	9.80272	
SLC27A1	179.4047139	836.7130668	4.663829889	2.221515	IRS4-AS1	1.659653067	0	547.0328046	9.095484	SRGAP3-AS4	0	0.829826533	893.1261388	9.80272	
GALNT13	39.62312699	184.4546734	4.655227577	2.218852	NFIA-AS2	1.659653067	0	547.0328046	9.095484	HSP90AB7P	0	0.829826533	893.1261388	9.80272	
TRNT1	355.5075005	1651.202679	4.64463528	2.215565	FMO8P	1.659653067	0	547.0328046	9.095484	LDHAP7	0	0.829826533	893.1261388	9.80272	
TCTE1	5.503212081	25.55697282	4.644010161	2.215371	LINC01053	1.659653067	0	547.0328046	9.095484	OR7E145P	0	0.829826533	893.1261388	9.80272	
DCSTAMP	5.503212081	25.55697282	4.644010161	2.215371	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ST8SIA3	5.503212081	25.55697282	4.644010161	2.215371	CD81-AS1	1.659653067	0	547.0328046	9.095484	RHOA-IT1	0	0.829826533	893.1261388	9.80272	
SMG1P4	5.503212081	25.55697282	4.644010161	2.215371	TSPY11P	1.659653067	0	547.0328046	9.095484	MRPS18CP7	0	0.829826533	893.1261388	9.80272	
TMEM178A	77.04496914	357.7976195	4.644010161	2.215371	ENSG000002	1.659653067	0	547.0328046	9.095484	NEXN-AS1	0	0.829826533	893.1261388	9.80272	
TSPAN5	71.54175706	332.2406467	4.644010161	2.215371	SNORD13E	1.659653067	0	547.0328046	9.095484	TPT1P14	0	0.829826533	893.1261388	9.80272	
LRPAP1	618.561038	2867.93682	4.636465351	2.213025	SNORD11	1.659653067	0	547.0328046	9.095484	HSPE1P12	0	0.829826533	893.1261388	9.80272	
KCNQ3	24.21413316	112.2284459	4.634832275	2.212517	RNU7-57P	1.659653067	0	547.0328046	9.095484	LINC01779	0	0.829826533	893.1261388	9.80272	
WDR86	47.3276239	218.9010281	4.625227511	2.209524	Y_RNA.111	1.659653067	0	547.0328046	9.095484	RPL7AP53	0	0.829826533	893.1261388	9.80272	
CYBC1	238.8394043	1104.505695	4.624470146	2.209288	SCARNA18I	1.659653067	0	547.0328046	9.095484	FBXL12P1	0	0.829826533	893.1261388	9.80272	
WRAP73	74.84368431	345.5747195	4.617286317	2.207045	RNU7-141P	1.659653067	0	547.0328046	9.095484	RPL23AP20	0	0.829826533	893.1261388	9.80272	
TEPSIN	97.95717505	452.2473017	4.616785871	2.206889	RNU7-45P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LEPR	1040.107083	4798.043854	4.613028726	2.205714	RNU7-82P	1.659653067	0	547.0328046	9.095484	LINC02941	0	0.829826533	893.1261388	9.80272	
EMC10	588.8436927	2714.594983	4.610043406	2.20478	RNU7-19P	1.659653067	0	547.0328046	9.095484	EYA2-AS1	0	0.829826533	893.1261388	9.80272	
PLIN5	25.31477557	116.6731368	4.608894772	2.204421	ENSG000002	1.659653067	0	547.0328046	9.095484	CHIAP1	0	0.829826533	893.1261388	9.80272	
NATD1	19.81156349	91.11616398	4.599140497	2.201364	SCARNA10	1.659653067	0	547.0328046	9.095484	LINC01920	0	0.829826533	893.1261388	9.80272	
PTPRH	9.905781747	45.55808199	4.599140497	2.201364	ENSG000002	1.659653067	0	547.0328046	9.095484	GSTM5P1	0	0.829826533	893.1261388	9.80272	
C1orf53	9.905781747	45.55808199	4.599140497	2.201364	RNU2-11P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NCAM1	140.8822293	647.8137024	4.598264137	2.201089	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TEKT3	24.21413316	111.1172731	4.588942847	2.198162	FHL1P1	1.659653067	0	547.0328046	9.095484	RPL6P1	0	0.829826533	893.1261388	9.80272	
IGSF10	150.788011	691.149439	4.583583497	2.196476	CLRN1-AS1	1.659653067	0	547.0328046	9.095484	LINC03070	0	0.829826533	893.1261388	9.80272	
HSPBP1	75.94432672	347.7970649	4.579631948	2.195232	LINC01119	1.659653067	0	547.0328046	9.095484	HAUS6P2	0	0.829826533	893.1261388	9.80272	
MYBPC3	18.71092108	85.56030032	4.572746578	2.193061	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR7515HG	0	0.829826533	893.1261388	9.80272	
PCDHGA2	97.95717505	446.691438	4.560068599	2.189056	RPS26P49	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PC	276.2612465	1257.847532	4.553108871	2.186852	ENSG000002	1.659653067	0	547.0328046	9.095484	C1DP2	0	0.829826533	893.1261388	9.80272	
DNAJC22	11.00642416	50.00277291	4.543053418	2.183662	RN7SL535P	1.659653067	0	547.0328046	9.095484	NDP-AS1	0	0.829826533	893.1261388	9.80272	
IL1RN	6.603854498	30.00166375	4.543053418	2.183662	KCNMB3P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LHCGR	6.603854498	30.00166375	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	TLX1NB	0	0.829826533	893.1261388	9.80272	
FHL5	8.80513933	40.00221833	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL34P34	0	0.829826533	893.1261388	9.80272	
MAP4K1	4.402569665	20.00110917	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	FMR1-IT1	0	0.829826533	893.1261388	9.80272	
NME2P1	4.402569665	20.00110917	4.543053418	2.183662	SLC9A9-AS	1.659653067	0	547.0328046	9.095484	LINC02653	0	0.829826533	893.1261388	9.80272	
CA6	4.402569665	20.00110917	4.543053418	2.183662	LNCSRLR	1.659653067	0	547.0328046	9.095484	VENTXP7	0	0.829826533	893.1261388	9.80272	
SPDYE1	4.402569665	20.00110917	4.543053418	2.183662	RPL23AP10	1.659653067	0	547.0328046	9.095484	KRTAP10-13	0	0.829826533	893.1261388	9.80272	
EXOC3L1	4.402569665	20.00110917	4.543053418	2.183662	CPHL1P	1.659653067	0	547.0328046	9.095484	CCDC200	0	0.829826533	893.1261388	9.80272	
ENSG000002	4.402569665	20.00110917	4.543053418	2.183662	HNRNPA1P	1.659653067	0	547.0328046	9.095484	KRTAP21-4P	0	0.829826533	893.1261388	9.80272	
HHATL	2.201284833	10.00055458	4.543053418	2.183662	RN7SL481P	1.659653067	0	547.0328046	9.095484	NRADDP	0	0.829826533	893.1261388	9.80272	
VDAC1P1	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
F11	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	COPRSP1	0	0.829826533	893.1261388	9.80272	
APOH	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RABGGTA	2.201284833	10.00055458	4.543053418	2.183662	LINC02030	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BFAR	2.201284833	10.00055458	4.543053418	2.183662	C21orf91-OT	1.659653067	0	547.0328046	9.095484	ARF4P2	0	0.829826533	893.1261388	9.80272	
KCNA1	2.201284833	10.00055458	4.543053418	2.183662	C1QTNF9-A	1.659653067	0	547.0328046	9.095484	RPS12P4	0	0.829826533	893.1261388	9.80272	
VSX2	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	MED28P7	0	0.829826533	893.1261388	9.80272	
PRDM12	2.201284833	10.00055458	4.543053418	2.183662	RN7SL582P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
WIF1	2.201284833	10.00055458	4.543053418	2.183662	ADAMTS9-/	1.659653067	0	547.0328046	9.095484	MYCL-AS1	0	0.829826533	893.1261388	9.80272	
OR2M5	2.201284833	10.00055458	4.543053418	2.183662	RN7SL165P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PTX3	2.201284833	10.00055458	4.543053418	2.183662	C3orf85	1.659653067	0	547.0328046	9.095484	CRLF3P1	0	0.829826533	893.1261388	9.80272	
SLC6A5	2.201284833	10.00055458	4.543053418	2.183662	RN7SL801P	1.659653067	0	547.0328046	9.095484	MTND5P17	0	0.829826533	893.1261388	9.80272	
GNGT2	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FABP6	2.201284833	10.00055458	4.543053418	2.183662	WWTR1-AS	1.659653067	0	547.0328046	9.095484	LINC00347	0	0.829826533	893.1261388	9.80272	
CYTL1	2.201284833	10.00055458	4.543053418	2.183662	SETP6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR7G3	2.201284833	10.00055458	4.543053418	2.183662	SYNPR-AS1	1.659653067	0	547.0328046	9.095484	SPA17P1	0	0.829826533	893.1261388	9.80272	
RNF186	2.201284833	10.00055458	4.543053418	2.183662	RPL36AP43	1.659653067	0	547.0328046	9.095484	SSBL2P	0	0.829826533	893.1261388	9.80272	
C10orf120	2.201284833	10.00055458	4.543053418	2.183662	EEF1A1P25	1.659653067	0	547.0328046	9.095484	SETD6P1	0	0.829826533	893.1261388	9.80272	
PRR23B	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
C2orf80	2.201284833	10.00055458	4.543053418	2.183662	AGGF1P3	1.659653067	0	547.0328046	9.095484	SDHDP4	0	0.829826533	893.1261388	9.80272	
IFIT1P1	2.201284833	10.00055458	4.543053418	2.183662	ACTG1P20	1.659653067	0	547.0328046	9.095484	PTGES3P4	0	0.829826533	893.1261388	9.80272	
CELA2B	2.201284833	10.00055458	4.543053418	2.183662	PAQR9-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	10.00055458	4.543053418	2.183662	ATP5F1AP7	1.659653067	0	547.0328046	9.095484	SULT1D1P	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	FABP5P1	0	0.829826533	893.1261388	9.80272	
CCDC192	2.201284833	10.00055458	4.543053418	2.183662	RPS23P6	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
COX7CP2	2.201284833	10.00055458	4.543053418	2.183662	RPL21P54	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MEIOSIN	2.201284833	10.00055458	4.543053418	2.183662	TOPORSLP	1.659653067	0	547.0328046	9.095484	ATP2B2-IT1	0	0.829826533	893.1261388	9.80272	
OR52B2	2.201284833	10.00055458	4.543053418	2.183662	RPL5P13	1.659653067	0	547.0328046	9.095484	PTMAP6	0	0.829826533	893.1261388	9.80272	
OR10G2	2.201284833	10.00055458	4.543053418	2.183662	ARHGDIG	1.659653067	0	547.0328046	9.095484	RPL36AP11	0	0.829826533	893.1261388	9.80272	
KDM4F	2.201284833	10.00055458	4.543053418	2.183662	RN7SL20P	1.659653067	0	547.0328046	9.095484	GLIS3-AS1	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	10.00055458	4.543053418	2.183662	BMS1P4	1.659653067	0	547.0328046	9.095484	LINC02087	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	10.00055458	4.543053418	2.183662	LINC01206	1.659653067	0	547.0328046	9.095484	EIF3IP1	0	0.829826533	893.1261388	9.80272	
DOC2B	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR52R1	2.201284833	10.00055458	4.543053418	2.183662	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	2.201284833	10.00055458	4.543053418	2.183662	RN7SL362P	1.659653067	0	547.0328046	9.095484	RPL21P111	0	0.829826533	893.1261388	9.80272	
TRIM62	166.1970049	754.4862846	4.53971048	2.1826	ENSG000002	1.659653067	0	547.0328046	9.095484	HUNK-AS1	0	0.829826533	893.1261388	9.80272	
GPRC5A	159.5931504	723.3734482	4.532609617	2.180342	PFN2-AS1	1.659653067	0	547.0328046	9.095484	MCFD2P1	0	0.829826533	893.1261388	9.80272	
SYBU	150.788011	682.2600571	4.524630655	2.1778	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01792	0	0.829826533	893.1261388	9.80272	
MORN1	114.4668113	517.8064929	4.52363866	2.177484	RPL12P7	1.659653067	0	547.0328046	9.095484	MMADHCP1	0	0.829826533	893.1261388	9.80272	
GASK1A	25.31477557	114.4507913	4.5211063	2.176676	RN7SL16P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CYP4B1	99.05781747	447.8026108	4.520618586	2.17652	ENSG000002	1.659653067	0	547.0328046	9.095484	GTF3AP1	0	0.829826533	893.1261388	9.80272	

CD320	94.6552478	427.8015016	4.519575106	2.176187	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00851	0	0.829826533	893.1261388	9.80272						
SPHK1	18.71092108	84.44912759	4.513360259	2.174202	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01732	0	0.829826533	893.1261388	9.80272						
SLC4A10	93.55460539	422.2456379	4.513360259	2.174202	RPS10P28	1.659653067	0	547.0328046	9.095484	EIF4BP9	0	0.829826533	893.1261388	9.80272						
RHBDL3	16.50963624	74.44857301	4.509401171	2.172936	RPSAP36	1.659653067	0	547.0328046	9.095484	MTCO1P19	0	0.829826533	893.1261388	9.80272						
CSRP2	144.1841565	650.0360479	4.508373621	2.172607	GSTA9P	1.659653067	0	547.0328046	9.095484	LINC01502	0	0.829826533	893.1261388	9.80272						
DOK6	64.93790256	292.2384284	4.500275137	2.170013	LINC01998	1.659653067	0	547.0328046	9.095484	SYP-AS1	0	0.829826533	893.1261388	9.80272						
DIPK1B	34.11991491	153.3418369	4.494203381	2.168065	LINC02045	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ENSG000002	9.905781747	44.44690926	4.486966339	2.16574	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01304	0	0.829826533	893.1261388	9.80272						
ACKR3	140.8822293	631.1461115	4.479955454	2.163484	ENSG000002	1.659653067	0	547.0328046	9.095484	NRXN2-AS1	0	0.829826533	893.1261388	9.80272						
LYPD6B	17.61027866	78.89326393	4.479955454	2.163484	TMEM35B	1.659653067	0	547.0328046	9.095484	RPSAP11	0	0.829826533	893.1261388	9.80272						
CPS1	50.62955115	226.6792372	4.477212064	2.162601	APOBEC3D	1.659653067	0	547.0328046	9.095484	HNRNPA1P5	0	0.829826533	893.1261388	9.80272						
SUMF1	348.903646	1561.197688	4.474581179	2.161753	CFAP44-AS1	1.659653067	0	547.0328046	9.095484	OR13D2P	0	0.829826533	893.1261388	9.80272						
STAG3	15.40899383	68.89270935	4.470941459	2.160579	RPS2P41	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
CERS6	548.1199233	2447.913527	4.466018153	2.158989	ENSG000002	1.659653067	0	547.0328046	9.095484	TAAR4P	0	0.829826533	893.1261388	9.80272						
SLC41A3	182.7066411	815.6007849	4.463990909	2.158334	IGKV2-28	1.659653067	0	547.0328046	9.095484	LRRC52-AS1	0	0.829826533	893.1261388	9.80272						
ZNF711	91.35332055	407.8003924	4.463990909	2.158334	GMCL2	1.659653067	0	547.0328046	9.095484	TUBB8P10	0	0.829826533	893.1261388	9.80272						
ATG4D	79.24625397	353.3529286	4.458922799	2.156695	SIAH2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
GUCA1B	13.207709	58.89215477	4.458922799	2.156695	ENSG000002	1.659653067	0	547.0328046	9.095484	OR7E24	0	0.829826533	893.1261388	9.80272						
GRM8	13.207709	58.89215477	4.458922799	2.156695	ENSG000002	1.659653067	0	547.0328046	9.095484	HLA-DQA2	0	0.829826533	893.1261388	9.80272						
KBTBD12	18.71092108	83.33795486	4.453973939	2.155093	LILRA6	1.659653067	0	547.0328046	9.095484	RPS6P3	0	0.829826533	893.1261388	9.80272						
JOSD2	24.21413316	107.7837549	4.451274561	2.154218	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
TMPRSS11D	5.503212081	24.44580009	4.442096675	2.151241	HDAC11-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
NPTX1	5.503212081	24.44580009	4.442096675	2.151241	LINC01213	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SKIC2	5.503212081	24.44580009	4.442096675	2.151241	KCNK15-AS	1.659653067	0	547.0328046	9.095484	DYRK3-AS1	0	0.829826533	893.1261388	9.80272						
LGMNP1	5.503212081	24.44580009	4.442096675	2.151241	OR2AE1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ENSG000002	28.61670282	126.6736914	4.426564869	2.146188	LINC02086	1.659653067	0	547.0328046	9.095484	UQCRHP2	0	0.829826533	893.1261388	9.80272						
PCDH12	46.22698148	204.4557826	4.42286682	2.144982	RN7SL280P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
CFAP57	75.94432672	335.5741649	4.418686416	2.143618	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
TSPO	52.83083598	233.3462736	4.41685749	2.14302	RN7SL47P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
LRRC61	17.61027866	77.7820912	4.41685749	2.14302	ENSG000002	1.659653067	0	547.0328046	9.095484	KCNH7-AS1	0	0.829826533	893.1261388	9.80272						
MLIP	17.61027866	77.7820912	4.41685749	2.14302	MIR3150BH	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
CPA4	8.80513933	38.8910456	4.41685749	2.14302	LINC02709	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
FOXD3	8.80513933	38.8910456	4.41685749	2.14302	RORA-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
FRMPD1	20.91220591	92.22733671	4.410215599	2.140849	DACT3-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ENDOU	12.10706658	53.33629111	4.405385133	2.139268	FRG1-DT	1.659653067	0	547.0328046	9.095484	NFIA-AS1	0	0.829826533	893.1261388	9.80272						
OPRM1	12.10706658	53.33629111	4.405385133	2.139268	ENSG000002	1.659653067	0	547.0328046	9.095484	PPIAP13	0	0.829826533	893.1261388	9.80272						
MGAM	12.10706658	53.33629111	4.405385133	2.139268	GS1-24F4.2	1.659653067	0	547.0328046	9.095484	MTCO1P18	0	0.829826533	893.1261388	9.80272						
MIIP	51.73019357	227.7904099	4.403432391	2.138629	MEF2C-AS2	1.659653067	0	547.0328046	9.095484	ACTG1P19	0	0.829826533	893.1261388	9.80272						
RGL3	173.9015018	765.598012	4.402480738	2.138317	MINDY2-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
NIPAL3	576.7366261	2539.029691	4.402407574	2.138293	LINC01513	1.659653067	0	547.0328046	9.095484	ATP6V0E1P3	0	0.829826533	893.1261388	9.80272						
MUTYH	15.40899383	67.78153662	4.3988295	2.13712	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL36AP24	0	0.829826533	893.1261388	9.80272						
ADAM11	22.01284833	96.67202764	4.391618304	2.134753	SLCO5A1-A	1.659653067	0	547.0328046	9.095484	LINC01685	0	0.829826533	893.1261388	9.80272						
ABCC8	28.61670282	125.5625187	4.387735353	2.133477	GPR176-DT	1.659653067	0	547.0328046	9.095484	MRPL48P1	0	0.829826533	893.1261388	9.80272						
ADAM8	99.05781747	434.468538	4.386009596	2.132909	LINC02466	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
CEBPD	298.2740948	1306.739132	4.381001082	2.131261	ARHGAP11I	1.659653067	0	547.0328046	9.095484	LINC01625	0	0.829826533	893.1261388	9.80272						
ANKLE1	9.905781747	43.33573653	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	MID1IP1-AS1	0	0.829826533	893.1261388	9.80272						
ZFR2	6.603854498	28.89049102	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ITPKA	6.603854498	28.89049102	4.37479218	2.129214	SYBU-AS1	1.659653067	0	547.0328046	9.095484	ARPC3P2	0	0.829826533	893.1261388	9.80272						
DMP1	6.603854498	28.89049102	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
C10orf71	6.603854498	28.89049102	4.37479218	2.129214	LINC01019	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SOWAHA	6.603854498	28.89049102	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	IFITM3P5	0	0.829826533	893.1261388	9.80272						
PCBP2P2	6.603854498	28.89049102	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	PHACTR3-AS	0	0.829826533	893.1261388	9.80272						
ENSG000002	6.603854498	28.89049102	4.37479218	2.129214	STX18-IT1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
OR1E2	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
TTC5	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	RDXP3	0	0.829826533	893.1261388	9.80272						
TRIM50	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	RNA5SP233	0	0.829826533	893.1261388	9.80272						
ARL11	3.301927249	14.44524551	4.37479218	2.129214	NDUFA5P12	1.659653067	0	547.0328046	9.095484	RNU7-87P	0	0.829826533	893.1261388	9.80272						
SLC66A1L	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	SNORD105B	0	0.829826533	893.1261388	9.80272						
HTR3C	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU7-93P	0	0.829826533	893.1261388	9.80272						
EXOC5P1	3.301927249	14.44524551	4.37479218	2.129214	GAPDHP40	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
C1QTNF8	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SERPINA5	3.301927249	14.44524551	4.37479218	2.129214	LINC01331	1.659653067	0	547.0328046	9.095484	RNU7-80P	0	0.829826533	893.1261388	9.80272						
OR10D3	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	Y_RNA.113	0	0.829826533	893.1261388	9.80272						
OR10Z1	3.301927249	14.44524551	4.37479218	2.129214	ZNF652-AS1	1.659653067	0	547.0328046	9.095484	RNU7-46P	0	0.829826533	893.1261388	9.80272						
PKP4-AS1	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	SCARNA18	0	0.829826533	893.1261388	9.80272						
C22orf42	3.301927249	14.44524551	4.37479218	2.129214	NPHP3-AS1	1.659653067	0	547.0328046	9.095484	U8.1	0	0.829826533	893.1261388	9.80272						
ENSG000002	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
RAD23BP1	3.301927249	14.44524551	4.37479218	2.129214	NUP210P3	1.659653067	0	547.0328046	9.095484	RNU7-133P	0	0.829826533	893.1261388	9.80272						
CLCA4-AS1	3.301927249	14.44524551	4.37479218	2.129214	ATP5MF-PT	1.659653067	0	547.0328046	9.095484	RNU7-187P	0	0.829826533	893.1261388	9.80272						
ENSG000002	3.301927249	14.44524551	4.37479218	2.129214	LINC01335	1.659653067	0	547.0328046	9.095484	LINC02023	0	0.829826533	893.1261388	9.80272						
SLURP2	3.301927249	14.44524551	4.37479218	2.129214	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL34P31	0	0.829826533	893.1261388	9.80272						
AKR1C3	26.41541799	115.5619641	4.37479218	2.129214	NDUFB2P1	1.659653067	0	547.0328046	9.095484	RN7SL184P	0	0.829826533	893.1261388	9.80272						
ZSCAN18	202.5182046	885.604667	4.372963254	2.128611	SEMA6A-AS	1.659653067	0	547.0328046	9.095484	MORC1-AS1	0	0.829826533	893.1261388	9.80272						
NAT14	17.61027866	76.67091847	4.353759526	2.122262	ATP5MGL	1.659653067	0	547.0328046	9.095484	RN7SL658P	0	0.829826533	893.1261388	9.80272						
FAM174C	100.1584599	435.5797107	4.348905836	2.120652	ENSG000002	1.659653067	0	547.0328046	9.095484	VPS51P4	0	0.829826533	893.1261388	9.80272						
ENSG000002	14.30835141	62.22567296	4.348905836	2.120652	TOMM40P3	1.659653067	0	547.0328046	9.095484	GM2AP2	0	0.829826533	893.1261388	9.80272						
ZBTB11-AS1	14.30835141	62.22567296	4.348905836	2.120652	LINC01060	1.659653067	0	547.0328046	9.095484	RN7SL569P	0	0.829826533	893.1261388	9.80272						
CLCN7	580.0385534	2516.806237	4.339032676	2.117373	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL21P97	0	0.829826533	893.1261388	9.80272						
LBHD1	18.71092108	81.11560939	4.335201301	2.116099	MED28-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
SRSF12	45.12633907	195.5664007	4.333752854	2.115617	LINC01234	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
PSG1	15.40899383	66.67036389	4.326717541	2.113273	LINC02465	1.659653067	0	547.0328046	9.095484	RPL32P34	0	0.829826533	893.1261388	9.80272						
ESPL1	7.704496914	33.33518194	4.326717541	2.113273	OR52V1P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
PAOX	7.704496914	33.33518194	4.326717541	2.113273	ENSG000002	1.659653067	0	547.0328046	9.095484	HMGN1P7	0	0.829826533	893.1261388	9.80272						
RAB37	7.704496914	33.33518194	4.326717541	2.113273	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
ADAT3	28.61670282	123.3401732	4.31007632	2.107713	OR7E43P	1.659653067	0	547.0328046	9.095484	MYADML	0	0.829826533	893.1261388	9.80272						
SLC66A1	49.52890873	213.3451644	4.307487685	2.106847	LINC02021	1.659653067	0	547.0328046	9.095484	RPL9P31	0	0.829826533	893.1261388	9.80272						
TLE1	664.7880194	2857.936265	4.299018908	2.104007	LGALS16	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
FCSK	86.95075089	373.3540378	4.293856395	2.102274	GJD2-DT	1.659653067	0	547.0328046	9.095484	RPL7AP67	0	0.829826533	893.1261388	9.80272						
RTBDN	4.402569665	18.88993643	4.290661562	2.1012	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
IL36RN	4.402569665	18.88993643	4.290661562	2.1012	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL795P	0	0.829826533	893.1261388	9.80272						
ABCG5	4.402569665	18.88993643	4.290661562	2.1012	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL213P	0	0.829826533	893.1261388	9.80272						
FCAMR	4.402569665	18.88993643	4.290661562	2.1012	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL754P	0	0.829826533	893.1261388	9.80272						
CA4	4.402569665	18.88993643	4.290661562	2.1012	SALL4P1	1.659653067	0	547.0328046	9.095484	RNF7P1	0	0.829826533	893.1261388	9.80272						
KRTAP19-6	4.402569665	18.88993643	4.290661562	2.1012	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL39P36	0	0.829826533	893.1261388	9.80272						
ZNF251	4.402569665	18.88993643	4.290661562	2.1012	PTPN11P4	1.659653067	0	547.0328046	9.095484	RN7SL606P	0	0.829826533	893.1261388	9.80272						
TEX35	4.402569665	18.88993643	4.290661562	2.1012	LINC02197	1.659653067	0	547.0328046	9.095484	TPT1P11	0	0.829826533	893.1261388	9.80272						
OR13C5	4.402569665	18.88993643	4.290661562	2.1012	CRLF3P2	1.659653067	0	547.0328046	9.095484	OR9A3P	0	0.829826533	893.1261388	9.80272						
GAS1	36.32119974	155.5641824	4.283013323	2.098626	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL351P	0	0.829826533	893.1261388	9.80272						
HS3ST2	31.91863007	136.674246	4.281958394	2.098271	PHOX2B-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272						
UNC13A	28.61670282	122.2290005	4.271246803	2.094657	ENSG000002	1.659653067	0	547.0328046	9.095484	B4GALT4-AS	0	0.829826533	893.1261388	9.80272						
ITGA2B	9.905781747	42.22456379	4.262618022	2.09174	LINC02999	1.659653067	0	547.0328046	9.095484	SOCAR	0	0.829826533	893.1261388	9.80272						

KCNQ2	9.905781747	42.22456379	4.262618022	2.09174	ADAMTS16	1.659653067	0	547.0328046	9.095484	RPS4XP13	0	0.829826533	893.1261388	9.80272
PEX5L	9.905781747	42.22456379	4.262618022	2.09174	LINC02492	1.659653067	0	547.0328046	9.095484	RPL5P15	0	0.829826533	893.1261388	9.80272
EMID1	9.905781747	42.22456379	4.262618022	2.09174	RPF2P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDX4	15.40899383	65.55919115	4.254605582	2.089025	LINC02381	1.659653067	0	547.0328046	9.095484	REPIN1-AS1	0	0.829826533	893.1261388	9.80272
STK11IP	171.7002169	730.0404846	4.251832045	2.088085	MTCO2P30	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SERTAD3	53.9314784	228.9015827	4.244303874	2.085528	LINC02221	1.659653067	0	547.0328046	9.095484	RPL36P11	0	0.829826533	893.1261388	9.80272
CLCN2	114.4668113	485.5824836	4.242124666	2.084787	EPHA5-AS1	1.659653067	0	547.0328046	9.095484	KCNAB1-AS	0	0.829826533	893.1261388	9.80272
FDXR	33.01927249	140.0077642	4.24018319	2.084127	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLB	11.00642416	46.66925472	4.24018319	2.084127	HNRNPKP1	1.659653067	0	547.0328046	9.095484	BTNL12P	0	0.829826533	893.1261388	9.80272
SPATA22	11.00642416	46.66925472	4.24018319	2.084127	ENSG000002	1.659653067	0	547.0328046	9.095484	KRT8P36	0	0.829826533	893.1261388	9.80272
CLIC3	11.00642416	46.66925472	4.24018319	2.084127	METTL21EP	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OIP5	5.503212081	23.33462736	4.24018319	2.084127	LNX1-AS1	1.659653067	0	547.0328046	9.095484	LINC01168	0	0.829826533	893.1261388	9.80272
BPIFA2	5.503212081	23.33462736	4.24018319	2.084127	FAM76AP1	1.659653067	0	547.0328046	9.095484	RN7SL382P	0	0.829826533	893.1261388	9.80272
TRGV11	5.503212081	23.33462736	4.24018319	2.084127	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ST20-AS1	5.503212081	23.33462736	4.24018319	2.084127	ZFPM2-AS1	1.659653067	0	547.0328046	9.095484	MTCO2P6	0	0.829826533	893.1261388	9.80272
ENSG000002	5.503212081	23.33462736	4.24018319	2.084127	GAPDHP62	1.659653067	0	547.0328046	9.095484	RPL4P1	0	0.829826533	893.1261388	9.80272
B3GAT3	127.6745203	541.1411202	4.238442557	2.083534	LINC02228	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCDHGB3	56.13276323	237.7909645	4.236224102	2.082779	LINC02384	1.659653067	0	547.0328046	9.095484	GPR199P	0	0.829826533	893.1261388	9.80272
GALNT16	115.5674537	488.9160018	4.230568262	2.080851	LINC00499	1.659653067	0	547.0328046	9.095484	RN7SL709P	0	0.829826533	893.1261388	9.80272
SI	58.33404806	246.6803464	4.228754125	2.080233	LINC00958	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
JCAD	456.7666028	1930.107035	4.225587035	2.079152	ENSG000001	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIGG	345.6017187	1458.969796	4.221535129	2.077768	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL110P	0	0.829826533	893.1261388	9.80272
GRM7	30.81798766	130.0072096	4.218549603	2.076747	ENSG000001	1.659653067	0	547.0328046	9.095484	RPL35AP11	0	0.829826533	893.1261388	9.80272
VAT1	239.9400468	1011.167186	4.214249348	2.075276	CTDNEP1P2	1.659653067	0	547.0328046	9.095484	LINC02032	0	0.829826533	893.1261388	9.80272
VWA3B	13.207709	55.55863657	4.206530943	2.072631	IMPA1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SIM1	6.603854498	27.77931829	4.206530943	2.072631	ENSG000002	1.659653067	0	547.0328046	9.095484	IQCJ-SCHIP1	0	0.829826533	893.1261388	9.80272
CELF3	6.603854498	27.77931829	4.206530943	2.072631	DDX18P4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WFDC10B	6.603854498	27.77931829	4.206530943	2.072631	GYG1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCTD21-AS1	6.603854498	27.77931829	4.206530943	2.072631	LINC02278	1.659653067	0	547.0328046	9.095484	ENPP7P4	0	0.829826533	893.1261388	9.80272
FRRS1	147.4860838	620.0343841	4.204019581	2.071769	RNA5SP217	1.659653067	0	547.0328046	9.095484	ACTG1P13	0	0.829826533	893.1261388	9.80272
CDK9	592.14562	2483.471055	4.194020813	2.068334	RNU6-377P	1.659653067	0	547.0328046	9.095484	RN7SL205P	0	0.829826533	893.1261388	9.80272
TNFRSF11A	42.92505424	180.0099825	4.193587771	2.068185	RNA5SP157	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RIMS3	28.61670282	120.006655	4.193587771	2.068185	RNU7-71P	1.659653067	0	547.0328046	9.095484	FBRSL1P1	0	0.829826533	893.1261388	9.80272
ENSG000002	14.30835141	60.0033275	4.193587771	2.068185	RNU6-1143P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NEK8	71.54175706	300.0166375	4.193587771	2.068185	Y_RNA.117	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAH17	22.01284833	92.22733671	4.189704819	2.066849	RNA5SP341	1.659653067	0	547.0328046	9.095484	GUSBP2	0	0.829826533	893.1261388	9.80272
LDHD	29.71734524	124.4513459	4.18783525	2.066205	RNU7-13P	1.659653067	0	547.0328046	9.095484	RN7SL482P	0	0.829826533	893.1261388	9.80272
NYAP2	15.40899383	64.44801842	4.182493623	2.064363	RNU6-1337P	1.659653067	0	547.0328046	9.095484	RN7SL316P	0	0.829826533	893.1261388	9.80272
FAM181B	15.40899383	64.44801842	4.182493623	2.064363	RNU6-100P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VIL1	7.704496914	32.22400921	4.182493623	2.064363	SCARNA20	1.659653067	0	547.0328046	9.095484	RN7SL265P	0	0.829826533	893.1261388	9.80272
LHX9	7.704496914	32.22400921	4.182493623	2.064363	RNU6-807P	1.659653067	0	547.0328046	9.095484	SUMO1P1	0	0.829826533	893.1261388	9.80272
WSCD1	7.704496914	32.22400921	4.182493623	2.064363	RNU6-453P	1.659653067	0	547.0328046	9.095484	RPS26P45	0	0.829826533	893.1261388	9.80272
AIFM3	7.704496914	32.22400921	4.182493623	2.064363	RNU6-1136P	1.659653067	0	547.0328046	9.095484	RPS15AP34	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	32.22400921	4.182493623	2.064363	RNU6-928P	1.659653067	0	547.0328046	9.095484	RN7SL434P	0	0.829826533	893.1261388	9.80272
ENPP5	730.8265644	3046.83563	4.169026932	2.059711	ENSG000001	1.659653067	0	547.0328046	9.095484	DENND6A-D	0	0.829826533	893.1261388	9.80272
PAX8	8.80513933	36.66870014	4.164465633	2.058131	RN7SKP5	1.659653067	0	547.0328046	9.095484	RPL17P31	0	0.829826533	893.1261388	9.80272
TMEM163	8.80513933	36.66870014	4.164465633	2.058131	Y_RNA.126	1.659653067	0	547.0328046	9.095484	RN7SL135P	0	0.829826533	893.1261388	9.80272
C19orf38	8.80513933	36.66870014	4.164465633	2.058131	Y_RNA.127	1.659653067	0	547.0328046	9.095484	RPL7AP2	0	0.829826533	893.1261388	9.80272
TMEM219	204.7194894	852.269485	4.163108688	2.057661	RNU6-1057P	1.659653067	0	547.0328046	9.095484	DNAJB8-AS1	0	0.829826533	893.1261388	9.80272
KLF16	57.23340565	237.7909645	4.154758254	2.054765	RN7SKP234	1.659653067	0	547.0328046	9.095484	MARK2P6	0	0.829826533	893.1261388	9.80272
NADK2	558.0257051	2316.795145	4.151771368	2.053727	RNU7-181P	1.659653067	0	547.0328046	9.095484	RPL7AP31	0	0.829826533	893.1261388	9.80272
ISYNA1	401.7344819	1667.87027	4.151673169	2.053693	RN7SKP57	1.659653067	0	547.0328046	9.095484	RPL11P5	0	0.829826533	893.1261388	9.80272
FKBP1C	19.81156349	82.22678213	4.150443863	2.053266	ENSG000001	1.659653067	0	547.0328046	9.095484	LASTR	0	0.829826533	893.1261388	9.80272
IQCA1L	9.905781747	41.11339106	4.150443863	2.053266	RGS21	1.659653067	0	547.0328046	9.095484	RN7SL745P	0	0.829826533	893.1261388	9.80272
MYH14	314.7837311	1303.405614	4.14063843	2.049853	ENSG000001	1.659653067	0	547.0328046	9.095484	RPS26P35	0	0.829826533	893.1261388	9.80272
PCSK2	11.00642416	45.55808199	4.139226448	2.049361	ENSG000001	1.659653067	0	547.0328046	9.095484	RN7SL97P	0	0.829826533	893.1261388	9.80272
DOHH	46.22698148	191.1217098	4.134418984	2.047685	ENSG000002	1.659653067	0	547.0328046	9.095484	RPS29P1	0	0.829826533	893.1261388	9.80272
LRG1	81.44753881	336.6853376	4.133769326	2.047458	USP12P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHBDL1	12.10706658	50.00277291	4.130048562	2.046159	ENSG000002	1.659653067	0	547.0328046	9.095484	PRDX5P1	0	0.829826533	893.1261388	9.80272
UBE2E4P	12.10706658	50.00277291	4.130048562	2.046159	LINC02143	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INTS3	116.6680961	481.1377927	4.123987694	2.04404	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL144P	0	0.829826533	893.1261388	9.80272
BTC	13.207709	54.44746384	4.122400324	2.043485	STAU2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EPHB1	27.51606041	113.3396186	4.119035099	2.042306	LINC02237	1.659653067	0	547.0328046	9.095484	RN7SL164P	0	0.829826533	893.1261388	9.80272
MEGF8	1123.755907	4616.922699	4.108474688	2.038603	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLEC4E	16.50963624	67.78153662	4.1055742	2.037584	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLAT	364.3126398	1495.638497	4.105370863	2.037513	ENSG000001	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SYTL2	2238.706675	9187.176144	4.103787355	2.036956	DPPA3P9	1.659653067	0	547.0328046	9.095484	RN7SL40P	0	0.829826533	893.1261388	9.80272
EIF3CL	68.23982981	280.0155283	4.103403087	2.036821	OXR1-AS1	1.659653067	0	547.0328046	9.095484	RN7SL516P	0	0.829826533	893.1261388	9.80272
NPIPA9	17.61027866	72.22622754	4.101367669	2.036105	ENSG000001	1.659653067	0	547.0328046	9.095484	RPS27AP9	0	0.829826533	893.1261388	9.80272
DUSP1	282.865101	1160.064332	4.101122152	2.036019	ENSG000001	1.659653067	0	547.0328046	9.095484	NMTRQ-TTC	0	0.829826533	893.1261388	9.80272
CCDC61	38.52248457	157.7865279	4.095959272	2.034201	LINC03022	1.659653067	0	547.0328046	9.095484	GLYCTK-AS	0	0.829826533	893.1261388	9.80272
FAM43A	78.14561156	320.0177467	4.095146743	2.033915	KCNIP1-OT1	1.659653067	0	547.0328046	9.095484	KRT8P35	0	0.829826533	893.1261388	9.80272
SLC2A8	81.44753881	333.3518194	4.092840917	2.033103	SOD1P3	1.659653067	0	547.0328046	9.095484	RPL13AP14	0	0.829826533	893.1261388	9.80272
WDR18	84.74946605	346.6858922	4.090714766	2.032353	ENSG000002	1.659653067	0	547.0328046	9.095484	AADACL2-A	0	0.829826533	893.1261388	9.80272
LOXHD1	26.41541799	107.7837549	4.080335014	2.028688	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL384P	0	0.829826533	893.1261388	9.80272
NDUFA2	53.9314784	220.0122008	4.079476539	2.028384	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL332P	0	0.829826533	893.1261388	9.80272
CDC42BPG	189.3104956	768.9315302	4.061748017	2.022101	ENSG000001	1.659653067	0	547.0328046	9.095484	RN7SL266P	0	0.829826533	893.1261388	9.80272
LAPTM4B	290.5695979	1177.843095	4.053566181	2.019192	ENSG000001	1.659653067	0	547.0328046	9.095484	RPL31P58	0	0.829826533	893.1261388	9.80272
PIGQ	254.2483982	1028.945949	4.047010548	2.016857	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL21P98	0	0.829826533	893.1261388	9.80272
MYO7A	149.6873686	605.5891386	4.045692995	2.016387	ENSG000001	1.659653067	0	547.0328046	9.095484	RN7SL849P	0	0.829826533	893.1261388	9.80272
MDGA2	31.91863007	128.8960368	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	RN7SL643P	0	0.829826533	893.1261388	9.80272
TMEM236	16.50963624	66.67036389	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	HNRNPA1P1	0	0.829826533	893.1261388	9.80272
ACSM2B	7.704496914	31.11283648	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PCDHAC2	0	0.829826533	893.1261388	9.80272
SLC22A7	7.704496914	31.11283648	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	RN7SL571P	0	0.829826533	893.1261388	9.80272
GDF9	7.704496914	31.11283648	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	VSIG8	0	0.829826533	893.1261388	9.80272
PNMA3	7.704496914	31.11283648	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	POM121L6P	0	0.829826533	893.1261388	9.80272
ARHGEF35	7.704496914	31.11283648	4.038269705	2.013737	MAPRE1P1	1.659653067	0	547.0328046	9.095484	RPS27P28	0	0.829826533	893.1261388	9.80272
CLK2P1	7.704496914	31.11283648	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	31.11283648	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	RPL15P12	0	0.829826533	893.1261388	9.80272
IL12B	6.603854498	26.66814555	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BRDT	6.603854498	26.66814555	4.038269705	2.013737	PIWIL2-DT	1.659653067	0	547.0328046	9.095484	RN7SL172P	0	0.829826533	893.1261388	9.80272
BEST2	3.301927249	13.33407278	4.038269705	2.013737	LINC01299	1.659653067	0	547.0328046	9.095484	SMIM34	0	0.829826533	893.1261388	9.80272
SCGB2A2	3.301927249	13.33407278	4.038269705	2.013737	CASC19	1.659653067	0	547.0328046	9.095484	RN7SL526P	0	0.829826533	893.1261388	9.80272
ATXN3L	3.301927249	13.33407278	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC22A14	3.301927249	13.33407278	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	RPL21P127	0	0.829826533	893.1261388	9.80272
KCNE2	3.301927249	13.33407278	4.038269705	2.013737	MYL12AP1	1.659653067	0	547.0328046	9.095484	RPL29P3	0	0.829826533	893.1261388	9.80272
PLA2G4D	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC39A2	3.301927249	13.33407278	4.038269705	2.013737	ENSG000001	1.659653067	0	547.0328046	9.095484	RPL12P6	0	0.829826533	893.1261388	9.80272
GSDMA	3.301927249	13.33407278	4.038269705	2.013737	PBOV1	1.659653067	0	547.0328046	9.095484	RN7SL430P	0	0.829826533	893.1261388	9.80272
MS4A10	3.301927249	13.33407278	4.038269705	2.013737	ALG9-IT1	1.659653067	0	547.0328046	9.095484	RN7SL308P	0	0.829826533	893.1261388	9.80272
KRTAP24-1	3.301927249	13.33407278	4.038269705	2.013737	PTP4A2P2	1.659653067	0	547.0328046	9.095484	PPIEL	0	0.829826533	893.1261388	9.80272

OR11H13P	3.301927249	13.33407278	4.038269705	2.013737	RANP3	1.659653067	0	547.0328046	9.095484	RN7SL143P	0	0.829826533	893.1261388	9.80272
MS4A18	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL35P6	0	0.829826533	893.1261388	9.80272
ADM5	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	KRTAP19-3	0	0.829826533	893.1261388	9.80272
PRKCIP1	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LCE3C	0	0.829826533	893.1261388	9.80272
PTTG2	3.301927249	13.33407278	4.038269705	2.013737	EIF4A2P3	1.659653067	0	547.0328046	9.095484	RN7SL833P	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	RPS23P3	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	13.33407278	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	HMGN1P10	0	0.829826533	893.1261388	9.80272
HTR7	11.00642416	44.44690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	EIF4E2P2	0	0.829826533	893.1261388	9.80272
SHMT1	11.00642416	44.44690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	CALHM6-AS	0	0.829826533	893.1261388	9.80272
TRAM1L1	9.905781747	40.00221833	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LRRC77P	0	0.829826533	893.1261388	9.80272
RTL1	9.905781747	40.00221833	4.038269705	2.013737	LINC02751	1.659653067	0	547.0328046	9.095484	LINC01995	0	0.829826533	893.1261388	9.80272
CHAT	5.503212081	22.22345463	4.038269705	2.013737	TRIM77BP	1.659653067	0	547.0328046	9.095484	RN7SL395P	0	0.829826533	893.1261388	9.80272
BMX	5.503212081	22.22345463	4.038269705	2.013737	CYCSP28	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GCK	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL636P	0	0.829826533	893.1261388	9.80272
SLC28A2	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	FAM3D-AS1	0	0.829826533	893.1261388	9.80272
ASGR1	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRC52	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	OR2A1-AS1	0	0.829826533	893.1261388	9.80272
DLK1	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	SLC9A9-AS2	0	0.829826533	893.1261388	9.80272
DAAM2-AS1	5.503212081	22.22345463	4.038269705	2.013737	TPBGL-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRODH2	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PRICKLE2-D	0	0.829826533	893.1261388	9.80272
AQP7B	5.503212081	22.22345463	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	KRTAP20-1	0	0.829826533	893.1261388	9.80272
LRP2	154.0899383	622.2567296	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HMGCLL1	38.52248457	155.5641824	4.038269705	2.013737	TOLLIP-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARL4D	35.22055732	142.2301096	4.038269705	2.013737	RNY1P9	1.659653067	0	547.0328046	9.095484	RN7SL153P	0	0.829826533	893.1261388	9.80272
SPHKAP	26.41541799	106.6725822	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PAXX	25.31477557	102.2278913	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	MRNIP-DT	0	0.829826533	893.1261388	9.80272
DCT	8.80513933	35.55752741	4.038269705	2.013737	AKTIPP3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CBLN3	8.80513933	35.55752741	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	MCPH1-DT	0	0.829826533	893.1261388	9.80272
XCL1	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00900	0	0.829826533	893.1261388	9.80272
KIRREL3	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SULT1C2	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ZBED9-AS1	0	0.829826533	893.1261388	9.80272
EIF4A1P10	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	KLC1-AS1	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	SMARCAD1-	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PICART1	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ARHGAP42-/	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TEX13C	4.402569665	17.7787637	4.038269705	2.013737	GAPDH-DT	1.659653067	0	547.0328046	9.095484	PTPN11P5	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	17.7787637	4.038269705	2.013737	CYP2A6	1.659653067	0	547.0328046	9.095484	HSPA8P11	0	0.829826533	893.1261388	9.80272
INSL6	2.201284833	8.889381852	4.038269705	2.013737	PUS1-AS1	1.659653067	0	547.0328046	9.095484	WDR45P1	0	0.829826533	893.1261388	9.80272
TEX101	2.201284833	8.889381852	4.038269705	2.013737	LINC02824	1.659653067	0	547.0328046	9.095484	KCTD9P5	0	0.829826533	893.1261388	9.80272
VRTN	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02513	0	0.829826533	893.1261388	9.80272
TSHB	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	FLJ12825	0	0.829826533	893.1261388	9.80272
TAGLN3	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
H2BC1	2.201284833	8.889381852	4.038269705	2.013737	DPPA4P3	1.659653067	0	547.0328046	9.095484	POU5F1P7	0	0.829826533	893.1261388	9.80272
KRT84	2.201284833	8.889381852	4.038269705	2.013737	TMEM167A	1.659653067	0	547.0328046	9.095484	LINC02434	0	0.829826533	893.1261388	9.80272
SSTR5	2.201284833	8.889381852	4.038269705	2.013737	USP30-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NTN3	2.201284833	8.889381852	4.038269705	2.013737	CADM1-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R14D	2.201284833	8.889381852	4.038269705	2.013737	LINC02375	1.659653067	0	547.0328046	9.095484	PCDHAC1	0	0.829826533	893.1261388	9.80272
LGI3	2.201284833	8.889381852	4.038269705	2.013737	YWHABP2	1.659653067	0	547.0328046	9.095484	LINC00498	0	0.829826533	893.1261388	9.80272
VAT1L	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL23AP94	0	0.829826533	893.1261388	9.80272
C9orf131	2.201284833	8.889381852	4.038269705	2.013737	OR13A1	1.659653067	0	547.0328046	9.095484	HNRNPA1P6	0	0.829826533	893.1261388	9.80272
CCR3	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNA5S9	2.201284833	8.889381852	4.038269705	2.013737	TMEM132D-	1.659653067	0	547.0328046	9.095484	LINC02220	0	0.829826533	893.1261388	9.80272
PPP1R11	2.201284833	8.889381852	4.038269705	2.013737	PGA5	1.659653067	0	547.0328046	9.095484	LINC02119	0	0.829826533	893.1261388	9.80272
IGLJ4	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C10orf105	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MTCP1	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	C4orf46P2	0	0.829826533	893.1261388	9.80272
C4B	2.201284833	8.889381852	4.038269705	2.013737	PRPF19-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AKTIPP2	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	LINC02388	1.659653067	0	547.0328046	9.095484	LINC02117	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHL1-AS1	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TEX51	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL29P14	2.201284833	8.889381852	4.038269705	2.013737	HSPA8P14	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLRN2	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01085	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	UHRF1BP1L	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	8.889381852	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01948	0	0.829826533	893.1261388	9.80272
SLC6A7	1.100642416	4.444690926	4.038269705	2.013737	LINC02386	1.659653067	0	547.0328046	9.095484	EGFLAM-AS	0	0.829826533	893.1261388	9.80272
DCX	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	R3HDM2P1	0	0.829826533	893.1261388	9.80272
GTSF1L	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
APOBEC2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC39A5	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	NMNAT1P4	0	0.829826533	893.1261388	9.80272
CELA3A	1.100642416	4.444690926	4.038269705	2.013737	NF1P4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CPA2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM174	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02115	0	0.829826533	893.1261388	9.80272
NGB	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCYBP37	0	0.829826533	893.1261388	9.80272
SMCO2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02432	0	0.829826533	893.1261388	9.80272
ACTRT2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR9K2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PTCRA	1.100642416	4.444690926	4.038269705	2.013737	RCCD1-AS1	1.659653067	0	547.0328046	9.095484	RPL7AP29	0	0.829826533	893.1261388	9.80272
MAL	1.100642416	4.444690926	4.038269705	2.013737	OR11H2	1.659653067	0	547.0328046	9.095484	LINC02065	0	0.829826533	893.1261388	9.80272
CBLL2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	UGT2A3P7	0	0.829826533	893.1261388	9.80272
ENSG000001	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PELO-AS1	0	0.829826533	893.1261388	9.80272
ZBED2	1.100642416	4.444690926	4.038269705	2.013737	LINC02290	1.659653067	0	547.0328046	9.095484	HMGB1P21	0	0.829826533	893.1261388	9.80272
TRIML2	1.100642416	4.444690926	4.038269705	2.013737	BLZF2P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GSX2	1.100642416	4.444690926	4.038269705	2.013737	PPIAP4	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR6S1	1.100642416	4.444690926	4.038269705	2.013737	SERPINA2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SH2D7	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PCNAP1	0	0.829826533	893.1261388	9.80272
TAFA3	1.100642416	4.444690926	4.038269705	2.013737	BCL2L2-PAI	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EFCAB10	1.100642416	4.444690926	4.038269705	2.013737	HSBP1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RTL4	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	IRX4-AS1	0	0.829826533	893.1261388	9.80272
BSPH1	1.100642416	4.444690926	4.038269705	2.013737	SUB1P2	1.659653067	0	547.0328046	9.095484	EPPIN-WFDC	0	0.829826533	893.1261388	9.80272
GOLGA8M	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02517	0	0.829826533	893.1261388	9.80272
OR10S1	1.100642416	4.444690926	4.038269705	2.013737	HIF1A-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SSXP1	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR6Y1	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02213	0	0.829826533	893.1261388	9.80272
LHFPL5	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

HSD3BP2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	NPM1P5	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PGGT1BP2	1.100642416	4.444690926	4.038269705	2.013737	COX4I1P1	1.659653067	0	547.0328046	9.095484	CASC16	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	NCOA4P3	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HSPD1P16	1.100642416	4.444690926	4.038269705	2.013737	CHORDC2P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGLV9-49	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	CTD-2194D2	0	0.829826533	893.1261388	9.80272
PDSS1P2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	VPS51P7	0	0.829826533	893.1261388	9.80272
C1DP3	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02997	0	0.829826533	893.1261388	9.80272
ARL14EPP1	1.100642416	4.444690926	4.038269705	2.013737	TTC7B-AS1	1.659653067	0	547.0328046	9.095484	GCLC-AS1	0	0.829826533	893.1261388	9.80272
ADIPOQ-AS1	1.100642416	4.444690926	4.038269705	2.013737	NMNAT1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USF1P1	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ANKRD34C	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRGV5P	1.100642416	4.444690926	4.038269705	2.013737	BUB1B-PAK	1.659653067	0	547.0328046	9.095484	LINC01179	0	0.829826533	893.1261388	9.80272
UBE3AP2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	JMJD4P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	MRPL15P1	1.659653067	0	547.0328046	9.095484	LINC02225	0	0.829826533	893.1261388	9.80272
PSMC1P3	1.100642416	4.444690926	4.038269705	2.013737	LINC02568	1.659653067	0	547.0328046	9.095484	LINC01187	0	0.829826533	893.1261388	9.80272
OR4F14P	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02173	0	0.829826533	893.1261388	9.80272
OR5H15	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PALLD-AS1	0	0.829826533	893.1261388	9.80272
HNRNPA1P2	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	FABP5P9	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL36AP15	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	PARM1-AS1	0	0.829826533	893.1261388	9.80272
HLTF-AS1	1.100642416	4.444690926	4.038269705	2.013737	LINGO1-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KRTAP10-5	1.100642416	4.444690926	4.038269705	2.013737	HSPE1P3	1.659653067	0	547.0328046	9.095484	ZCCHC10P2	0	0.829826533	893.1261388	9.80272
LINC02024	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	LINC01566	1.659653067	0	547.0328046	9.095484	LINC01377	0	0.829826533	893.1261388	9.80272
SBF1P1	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02945	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	LINC00261	1.659653067	0	547.0328046	9.095484	GAPDHP76	0	0.829826533	893.1261388	9.80272
IGLL5	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	CDH18-AS1	0	0.829826533	893.1261388	9.80272
MRPS35-DT	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LINC02292	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	RNF103-CHN	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00536	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	KRBOX5P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC9A3R1-A	1.100642416	4.444690926	4.038269705	2.013737	LSM3P5	1.659653067	0	547.0328046	9.095484	GOLGA8K	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	MBTPS1-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCO2P24	0	0.829826533	893.1261388	9.80272
AFAP1-AS1	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ECM1P2	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	MTCYBP28	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MIR6757	1.100642416	4.444690926	4.038269705	2.013737	LINC02240	1.659653067	0	547.0328046	9.095484	SLC7A11-AS	0	0.829826533	893.1261388	9.80272
MIR6803	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ITFG1-AS1	1.659653067	0	547.0328046	9.095484	ESAM-AS1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	EIF4EBP2P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PTENP1-AS	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	TRPC6P6	0	0.829826533	893.1261388	9.80272
SLC7A14-AS	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ACTR3BP3	1.659653067	0	547.0328046	9.095484	ANKRD33B-	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	HEXA-AS1	1.659653067	0	547.0328046	9.095484	LINC02060	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	C2CD5-AS1	0	0.829826533	893.1261388	9.80272
LINC03026	1.100642416	4.444690926	4.038269705	2.013737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP11	789.1606125	3182.398703	4.03263753	2.011724	LINC02134	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VIM	3704.762373	14930.82799	4.030171571	2.010841	ENSG000002	1.659653067	0	547.0328046	9.095484	SEPHS2P1	0	0.829826533	893.1261388	9.80272
WDR17	107.8629568	434.468538	4.027967997	2.010052	C2orf69P4	1.659653067	0	547.0328046	9.095484	CCDC74BP1	0	0.829826533	893.1261388	9.80272
TMEM14A	106.7623144	430.0238471	4.027861793	2.010014	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01612	0	0.829826533	893.1261388	9.80272
EML2	346.7023611	1395.632951	4.025449801	2.00915	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM147	62.73661773	252.23621	4.020557996	2.007396	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R3F	40.7237694	163.3423915	4.010984099	2.003956	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC17	57.23340565	228.9015827	3.999440189	1.999798	ENSG000002	1.659653067	0	547.0328046	9.095484	MRPL22P1	0	0.829826533	893.1261388	9.80272
TMEM100	23.11349074	92.22733671	3.990195066	1.996459	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LAMA3	873.9100785	3485.748859	3.988681381	1.995912	COSMOC	1.659653067	0	547.0328046	9.095484	EEF1GP2	0	0.829826533	893.1261388	9.80272
ATAD3B	149.6873686	596.6997568	3.986306676	1.995053	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPSB2	38.52248457	153.3418369	3.980580138	1.992979	ENSG000002	1.659653067	0	547.0328046	9.095484	MARK2P4	0	0.829826533	893.1261388	9.80272
LRIT3	37.42184215	148.897146	3.978883386	1.992364	ENSG000002	1.659653067	0	547.0328046	9.095484	H3P21	0	0.829826533	893.1261388	9.80272
CITED4	18.71092108	74.44857301	3.978883386	1.992364	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NPHP4	177.203429	704.4835117	3.975563654	1.991159	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MSTN	52.83083598	210.0116462	3.975171741	1.991017	ENSG000002	1.659653067	0	547.0328046	9.095484	SEC63P2	0	0.829826533	893.1261388	9.80272
SLC38A9	265.2548223	1051.169404	3.962866329	1.986544	ENSG000002	1.659653067	0	547.0328046	9.095484	CLSTN2-AS1	0	0.829826533	893.1261388	9.80272
GAMT	113.3661689	447.8026108	3.950055076	1.981873	ENSG000002	1.659653067	0	547.0328046	9.095484	HOXC-AS1	0	0.829826533	893.1261388	9.80272
FABP5	100.1584599	395.5774924	3.949516525	1.981676	CASC17	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC39A3	49.52890873	195.5664007	3.948530378	1.981316	PAPOLA-DT	1.659653067	0	547.0328046	9.095484	LINC02260	0	0.829826533	893.1261388	9.80272
CMTM7	49.52890873	195.5664007	3.948530378	1.981316	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL6P11	0	0.829826533	893.1261388	9.80272
MYCN	12.10706658	47.78042745	3.946490848	1.98057	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	12.10706658	47.78042745	3.946490848	1.98057	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02994	0	0.829826533	893.1261388	9.80272
DPP7	482.0813783	1902.327716	3.946071767	1.980417	CKBP1	1.659653067	0	547.0328046	9.095484	MIR583HG	0	0.829826533	893.1261388	9.80272
POLRMTP1	23.11349074	91.11616398	3.942120426	1.978972	ENSG000002	1.659653067	0	547.0328046	9.095484	KNOP1P5	0	0.829826533	893.1261388	9.80272
MRI1	132.07709	520.0288383	3.937312962	1.977211	LINC02193	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SFTPD	22.01284833	86.67147305	3.937312962	1.977211	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCO1P35	0	0.829826533	893.1261388	9.80272
ARRDC2	108.9635992	428.9126743	3.936293197	1.976838	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARHGAP39	294.9721676	1160.064332	3.932792511	1.975554	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01017	0	0.829826533	893.1261388	9.80272
TRIB2	298.2740948	1172.287232	3.930234814	1.974616	ENSG000002	1.659653067	0	547.0328046	9.095484	P3R3URF	0	0.829826533	893.1261388	9.80272
TCHH	9.905781747	38.8910456	3.926095547	1.973095	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGLV3-25	9.905781747	38.8910456	3.926095547	1.973095	ENSG000002	1.659653067	0	547.0328046	9.095484	C8orf17	0	0.829826533	893.1261388	9.80272
TTC36-AS1	9.905781747	38.8910456	3.926095547	1.973095	VPS39-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNFRSF25	28.61670282	112.2284459	3.921781156	1.971509	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01365	0	0.829826533	893.1261388	9.80272
PIGX	190.411138	745.5969028	3.915721058	1.969278	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CELF4	8.80513933	34.44635467	3.912073777	1.967934	LMO7-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLG	8.80513933	34.44635467	3.912073777	1.967934	ENSG000002	1.659653067	0	547.0328046	9.095484	EXOC1L	0	0.829826533	893.1261388	9.80272
CHST14	50.62955115	197.7887462	3.906586997	1.965909	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NIPSNAP3A	227.8329802	888.9381852	3.90170986	1.964106	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GSN	2386.192759	9303.84928	3.899035083	1.963117	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
JTB	7.704496914	30.00166375	3.894045787	1.96127	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01181	0	0.829826533	893.1261388	9.80272
NOTUM	7.704496914	30.00166375	3.894045787	1.96127	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	30.00166375	3.894045787	1.96127	TEN1-CDK3	1.659653067	0	547.0328046	9.095484	SNHG21	0	0.829826533	893.1261388	9.80272
TMEM205	302.6766645	1176.731923	3.88775238	1.958936	MPC1-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRDX1	773.7516187	3007.944584	3.887480829	1.958836	DHX35-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC25A15	22.01284833	85.56030032	3.886834591	1.958596	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02480	0	0.829826533	893.1261388	9.80272
BEX1	22.01284833	85.56030032	3.886834591	1.958596	ENSG000002	1.659653067	0	547.0328046	9.095484	ELL2P2	0	0.829826533	893.1261388	9.80272
MAN2B2	506.2955115	1967.886907	3.886834591	1.958596	LINC01686	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPRIN1	36.32119974	141.1189369	3.885304943	1.958028	PAQR5-DT	1.659653067	0	547.0328046	9.095484	WWC2-AS1	0	0.829826533	893.1261388	9.80272

FAM83H	27.51606041	106.6725822	3.876738917	1.954844	BEAN1-AS1	1.659653067	0	547.0328046	9.095484	F11-AS1	0	0.829826533	893.1261388	9.80272	
ARX	186.0085684	720.03993	3.871004096	1.952708	ECI1-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ARHGEF39	13.207709	51.11394565	3.870008467	1.952337	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CLCNKA	13.207709	51.11394565	3.870008467	1.952337	MIR3976HG	1.659653067	0	547.0328046	9.095484	TILRLS	0	0.829826533	893.1261388	9.80272	
WIZP1	13.207709	51.11394565	3.870008467	1.952337	AGGF1P8	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CASR	6.603854498	25.55697282	3.870008467	1.952337	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01217	0	0.829826533	893.1261388	9.80272	
ADAM21P1	6.603854498	25.55697282	3.870008467	1.952337	GOSR2-DT	1.659653067	0	547.0328046	9.095484	OR7H2P	0	0.829826533	893.1261388	9.80272	
MVB12A	84.74946605	327.7959558	3.867823256	1.951522	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02429	0	0.829826533	893.1261388	9.80272	
PPP2R1A	887.1177875	3430.190222	3.866668294	1.951091	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SGK2	51.73019357	200.0110917	3.866428441	1.951002	ENSG000002	1.659653067	0	547.0328046	9.095484	NDUFB4P2	0	0.829826533	893.1261388	9.80272	
ATP1B2	45.12633907	174.4541188	3.865904535	1.950806	ENSG000002	1.659653067	0	547.0328046	9.095484	MRPS33P3	0	0.829826533	893.1261388	9.80272	
NADSYN1	418.2441182	1616.756324	3.86558054	1.950685	ENSG000002	1.659653067	0	547.0328046	9.095484	RAB5CP2	0	0.829826533	893.1261388	9.80272	
SCNN1G	25.31477557	97.78320037	3.862692761	1.949607	C17orf114	1.659653067	0	547.0328046	9.095484	KHDC1P1	0	0.829826533	893.1261388	9.80272	
PCNX3	599.8501169	2316.795145	3.862290062	1.949457	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ARRB1	466.6723845	1798.988652	3.854928451	1.946704	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF225-AS1	60.5353329	233.3462736	3.854711991	1.946623	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SLC26A7	36.32119974	140.0077642	3.854711991	1.946623	FAM187B2P	1.659653067	0	547.0328046	9.095484	FAM90A25P	0	0.829826533	893.1261388	9.80272	
NELFB	291.6702403	1123.395631	3.851594973	1.945456	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ADGRB2	46.22698148	177.787637	3.845971148	1.943348	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND1P19	0	0.829826533	893.1261388	9.80272	
COL9A2	206.9207743	795.5996757	3.844948283	1.942964	ENSG000002	1.659653067	0	547.0328046	9.095484	HAUS1P1	0	0.829826533	893.1261388	9.80272	
AKAP3	28.61670282	110.0061004	3.844122123	1.942654	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF541	39.62312699	152.2306642	3.841964928	1.941844	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PRDX3	331.2933673	1271.181605	3.837027029	1.939989	ENSG000002	1.659653067	0	547.0328046	9.095484	PITPNM2-AS	0	0.829826533	893.1261388	9.80272	
EID2B	22.01284833	84.44912759	3.83635622	1.939737	ENSG000002	1.659653067	0	547.0328046	9.095484	CENPS-COR	0	0.829826533	893.1261388	9.80272	
FBXO24	11.00642416	42.22456379	3.83635622	1.939737	GTSCR1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
P2RX6	5.503212081	21.1122819	3.83635622	1.939737	RN7SL689P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PROX2	5.503212081	21.1122819	3.83635622	1.939737	SNORA70D	1.659653067	0	547.0328046	9.095484	LINC02241	0	0.829826533	893.1261388	9.80272	
SIK1	5.503212081	21.1122819	3.83635622	1.939737	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CCDC78	5.503212081	21.1122819	3.83635622	1.939737	MIR4744	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	5.503212081	21.1122819	3.83635622	1.939737	LASP1NB	1.659653067	0	547.0328046	9.095484	RNA5-8SP6	0	0.829826533	893.1261388	9.80272	
ENSG000002	5.503212081	21.1122819	3.83635622	1.939737	DLGAP1-AS	1.659653067	0	547.0328046	9.095484	RNU5E-3P	0	0.829826533	893.1261388	9.80272	
RDH14	70.44111464	270.0149737	3.833201322	1.93855	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU7-124P	0	0.829826533	893.1261388	9.80272	
IGSF21	69.34047223	265.5702828	3.829946268	1.937324	RN7SL336P	1.659653067	0	547.0328046	9.095484	Y_RNA.116	0	0.829826533	893.1261388	9.80272	
GAK	884.9165027	3389.076831	3.829826679	1.937279	LINC02003	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MST1P2	31.91863007	122.2290005	3.829393686	1.937116	MIR4803	1.659653067	0	547.0328046	9.095484	RNU6-202P	0	0.829826533	893.1261388	9.80272	
ABCC10	232.2355498	888.9381852	3.827743796	1.936494	ENSG000002	1.659653067	0	547.0328046	9.095484	RNA5SP96	0	0.829826533	893.1261388	9.80272	
TMEM258	72.64239948	277.7931829	3.824119039	1.935127	RN7SL665P	1.659653067	0	547.0328046	9.095484	VTRNA2-2P	0	0.829826533	893.1261388	9.80272	
ERVMER34-	75.94432672	290.0160829	3.818798525	1.933119	AIDAP3	1.659653067	0	547.0328046	9.095484	RN7SKP141	0	0.829826533	893.1261388	9.80272	
RAB3IL1	89.15203572	340.0188558	3.813921388	1.931275	RN7SL753P	1.659653067	0	547.0328046	9.095484	RN7SKP43	0	0.829826533	893.1261388	9.80272	
RGS6	9.905781747	37.77987287	3.813921388	1.931275	ZNF236-DT	1.659653067	0	547.0328046	9.095484	RNU4ATAC8	0	0.829826533	893.1261388	9.80272	
TMPRSS6	9.905781747	37.77987287	3.813921388	1.931275	MIR4694	1.659653067	0	547.0328046	9.095484	SNORA70.3	0	0.829826533	893.1261388	9.80272	
ZBTB46	108.9635992	415.5786016	3.813921388	1.931275	MIR548AT	1.659653067	0	547.0328046	9.095484	RNU6-1262P	0	0.829826533	893.1261388	9.80272	
NID1	945.4518356	3601.310823	3.809089672	1.929446	ENSG000002	1.659653067	0	547.0328046	9.095484	RNA5SP464	0	0.829826533	893.1261388	9.80272	
DOCK8-AS1	14.30835141	54.44746384	3.805292607	1.928007	MIR5706	1.659653067	0	547.0328046	9.095484	RN7SKP248	0	0.829826533	893.1261388	9.80272	
RPP25L	47.3276239	180.0099825	3.803486583	1.927323	MIR3162	1.659653067	0	547.0328046	9.095484	RNU6-313P	0	0.829826533	893.1261388	9.80272	
ABHD4	286.1670282	1087.838104	3.801409655	1.926535	MIR4798	1.659653067	0	547.0328046	9.095484	SNORD27	0	0.829826533	893.1261388	9.80272	
CHST7	18.71092108	71.11505481	3.800724428	1.926274	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU6-781P	0	0.829826533	893.1261388	9.80272	
RTN4RL1	113.3661689	430.0238471	3.793229068	1.923426	MIR3140	1.659653067	0	547.0328046	9.095484	Y_RNA.119	0	0.829826533	893.1261388	9.80272	
KIF3C	122.1713082	463.359029	3.79269925	1.923225	MIR4504	1.659653067	0	547.0328046	9.095484	Y_RNA.120	0	0.829826533	893.1261388	9.80272	
IGFBP2	810.0728184	3071.28143	3.791364628	1.922717	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MARCHF2	110.0642416	416.6897743	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU6-977P	0	0.829826533	893.1261388	9.80272	
NAP1L3	70.44111464	266.6814555	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	Y_RNA.121	0	0.829826533	893.1261388	9.80272	
DHPS	22.01284833	83.33795486	3.785877848	1.920628	MIR4540	1.659653067	0	547.0328046	9.095484	RNU7-3P	0	0.829826533	893.1261388	9.80272	
GRM1	22.01284833	83.33795486	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	RNA5SP134	0	0.829826533	893.1261388	9.80272	
NEURL1	17.61027866	66.67036389	3.785877848	1.920628	MIR4474	1.659653067	0	547.0328046	9.095484	RNU1-103P	0	0.829826533	893.1261388	9.80272	
IGSF22	8.80513933	33.33518194	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU6-1061P	0	0.829826533	893.1261388	9.80272	
GCNT2	4.402569665	16.66759097	3.785877848	1.920628	MIR4301	1.659653067	0	547.0328046	9.095484	RNA5SP438	0	0.829826533	893.1261388	9.80272	
EPX	4.402569665	16.66759097	3.785877848	1.920628	MIR548AM	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RGS20	4.402569665	16.66759097	3.785877848	1.920628	SNORD3B-1	1.659653067	0	547.0328046	9.095484	Y_RNA.122	0	0.829826533	893.1261388	9.80272	
LRIT1	4.402569665	16.66759097	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	RNA5SP449	0	0.829826533	893.1261388	9.80272	
ZDHHC19	4.402569665	16.66759097	3.785877848	1.920628	RN7SL74P	1.659653067	0	547.0328046	9.095484	RNU6ATAC3	0	0.829826533	893.1261388	9.80272	
INSM1	4.402569665	16.66759097	3.785877848	1.920628	LINC01915	1.659653067	0	547.0328046	9.095484	MIR2276	0	0.829826533	893.1261388	9.80272	
DNAJB8	4.402569665	16.66759097	3.785877848	1.920628	ENSG000002	1.659653067	0	547.0328046	9.095484	RNU6-798P	0	0.829826533	893.1261388	9.80272	
BRICD5	4.402569665	16.66759097	3.785877848	1.920628	MIR4471	1.659653067	0	547.0328046	9.095484	RNU6-577P	0	0.829826533	893.1261388	9.80272	
BPIFB4	4.402569665	16.66759097	3.785877848	1.920628	MIR3139	1.659653067	0	547.0328046	9.095484	RNU6-856P	0	0.829826533	893.1261388	9.80272	
CYP2F1	4.402569665	16.66759097	3.785877848	1.920628	RN7SL375P	1.659653067	0	547.0328046	9.095484	RNU1-117P	0	0.829826533	893.1261388	9.80272	
OR11L1	4.402569665	16.66759097	3.785877848	1.920628	LINC02958	1.659653067	0	547.0328046	9.095484	RNU6-334P	0	0.829826533	893.1261388	9.80272	
EBLN1	4.402569665	16.66759097	3.785877848	1.920628	ZNF516-AS1	1.659653067	0	547.0328046	9.095484	RNA5SP342	0	0.829826533	893.1261388	9.80272	
ANHX	4.402569665	16.66759097	3.785877848	1.920628	MIR3685	1.659653067	0	547.0328046	9.095484	RNU6-1015P	0	0.829826533	893.1261388	9.80272	
IGKV1D-16	4.402569665	16.66759097	3.785877848	1.920628	RN7SL577P	1.659653067	0	547.0328046	9.095484	RNU6-1223P	0	0.829826533	893.1261388	9.80272	
LMNTD1	13.207709	50.00277291	3.785877848	1.920628	MIR4725	1.659653067	0	547.0328046	9.095484	RNA5SP40	0	0.829826533	893.1261388	9.80272	
HOXB4	13.207709	50.00277291	3.785877848	1.920628	MIR5587	1.659653067	0	547.0328046	9.095484	RNU6-367P	0	0.829826533	893.1261388	9.80272	
TMEM238	26.41541799	100.0055458	3.785877848	1.920628	SRP68P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CD274	47.3276239	178.8988098	3.78000827	1.918389	DYNLL2-DT	1.659653067	0	547.0328046	9.095484	RNU7-156P	0	0.829826533	893.1261388	9.80272	
UNC93B1	183.8072835	692.2606117	3.766230578	1.913121	ENSG000002	1.659653067	0	547.0328046	9.095484	NRON	0	0.829826533	893.1261388	9.80272	
JUNB	517.3019357	1947.885798	3.765471698	1.912831	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	12.10706658	45.55808199	3.762933134	1.911858	MIR5681A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BCL2L12	44.02569665	165.564737	3.760638663	1.910978	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00967	0	0.829826533	893.1261388	9.80272	
BBC3	7.704496914	28.89049102	3.749821869	1.906822	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NPFF	7.704496914	28.89049102	3.749821869	1.906822	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PAH	7.704496914	28.89049102	3.749821869	1.906822	MIR4482	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR4Q3	7.704496914	28.89049102	3.749821869	1.906822	CEACAM16	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GSTCD	268.5567496	1005.611322	3.744502134	1.904774	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
VWDE	93.55460539	350.0194104	3.741338109	1.903554	MRPL37P1	1.659653067	0	547.0328046	9.095484	PSME2P5	0	0.829826533	893.1261388	9.80272	
ENSG000002	48.42826632	181.1211552	3.73998842	1.903034	LIMASI	1.659653067	0	547.0328046	9.095484	KRT18P41	0	0.829826533	893.1261388	9.80272	
FKRP	79.24625397	295.5719466	3.729790769	1.899095	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BCAS4	42.92505424	160.0088733	3.727633574	1.89826	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02209	0	0.829826533	893.1261388	9.80272	
STX16-NPEP	14.30835141	53.33629111	3.727633574	1.89826	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
QPCTL	78.14561156	291.1272556	3.725445995	1.897413	E2F3P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MCRIP2	35.22055732	131.1183823	3.722779884	1.89638	LINC01905	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MANBA	695.6060071	2589.032464	3.721981176	1.896071	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MATCAP1	83.64882364	311.1283648	3.719458939	1.895093	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CACNA1A	45.12633907	167.7870824	3.71816296	1.89459	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NENF	138.6809445	515.5841474	3.717772109	1.894438	LINC01924	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DEDD2	48.42826632	180.0099825	3.717043706	1.894156	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FSIP2	72.64239948	270.0149737	3.717043706	1.894156	BCAS3-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LSAMP	312.5824462	1160.064332	3.711226736	1.891896	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CPPED1	91.35332055	338.9076831	3.709856205	1.891363	ENSG000002	1.659653067	0	547.0328046	9.095484	POU5F1P2	0	0.829826533	893.1261388	9.80272	
MGMT	168.3982897	624.4790751	3.708345709	1.890776	PARD6G-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CTSF	504.0942267	1868.992534	3.707625351	1.890495	LINC01415	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PLIN4	347.8030036	1288.960368	3.706007008	1.889866	KIF18B-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	

PSAP	7105.74744	26310.34793	3.702685489	1.888572	KCNJ2-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SV2C	36.32119974	134.4519005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	NCRNA0025	0	0.829826533	893.1261388	9.80272
SRL	9.905781747	36.66870014	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	NDUFA5P2	0	0.829826533	893.1261388	9.80272
KLK12	9.905781747	36.66870014	3.70174723	1.888206	ZNF582-DT	1.659653067	0	547.0328046	9.095484	HMGB1P19	0	0.829826533	893.1261388	9.80272
MOCS1	59.43469048	220.0122008	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	IGKV1OR22-	0	0.829826533	893.1261388	9.80272
TMEM250	52.83083598	195.5664007	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02099	0	0.829826533	893.1261388	9.80272
SNAP91	23.11349074	85.56030032	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ODAM	6.603854498	24.44580009	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC116	6.603854498	24.44580009	3.70174723	1.888206	ZSCAN5A-A	1.659653067	0	547.0328046	9.095484	TUBAP7	0	0.829826533	893.1261388	9.80272
CLEC2A	6.603854498	24.44580009	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRR29	6.603854498	24.44580009	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01414	0	0.829826533	893.1261388	9.80272
CACNG3	3.301927249	12.22290005	3.70174723	1.888206	TSHZ3-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CACNG1	3.301927249	12.22290005	3.70174723	1.888206	LINC02078	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC22A18	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DPEP3	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	KCNIP1-AS1	0	0.829826533	893.1261388	9.80272
LDHAL6A	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL260P	0	0.829826533	893.1261388	9.80272
CACNG2	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TM4SF4	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	RPSAP74	0	0.829826533	893.1261388	9.80272
OR5AK2	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC190	3.301927249	12.22290005	3.70174723	1.888206	ARHGEF18-	1.659653067	0	547.0328046	9.095484	ADAM7-AS2	0	0.829826533	893.1261388	9.80272
NELFE	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	SMARCE1P4	0	0.829826533	893.1261388	9.80272
OR1J4	3.301927249	12.22290005	3.70174723	1.888206	VSIG10L-AS	1.659653067	0	547.0328046	9.095484	LINC02866	0	0.829826533	893.1261388	9.80272
LIX1-AS1	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	IGHEP1	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	12.22290005	3.70174723	1.888206	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02886	0	0.829826533	893.1261388	9.80272
SLC9A3-AS1	62.73661773	232.2351009	3.70174723	1.888206	TCP11X1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARL10	41.82441182	154.4530097	3.692891375	1.884751	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OBSCN	1852.381187	6839.268162	3.692149441	1.884461	ARPC1AP2	1.659653067	0	547.0328046	9.095484	MTND1P5	0	0.829826533	893.1261388	9.80272
ILDR2	28.61670282	105.5614095	3.688804057	1.883153	LINC02560	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADAM12	50.62955115	186.6770189	3.687115818	1.882493	SERTAD3-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLHL26	47.3276239	174.4541188	3.686095021	1.882093	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01170	0	0.829826533	893.1261388	9.80272
KATNB1	100.1584599	368.9093468	3.683256984	1.880982	ENSG000002	1.659653067	0	547.0328046	9.095484	IGLV1-62	0	0.829826533	893.1261388	9.80272
NXT2	78.14561156	287.7937374	3.682788217	1.880798	ENSG000002	1.659653067	0	547.0328046	9.095484	DSTNP3	0	0.829826533	893.1261388	9.80272
USP50	18.71092108	68.89270935	3.68195179	1.880471	MAGEA2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCN11A	15.40899383	56.6698093	3.67770991	1.878808	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PEX16	58.33404806	214.4563372	3.676349307	1.878274	ENSG000002	1.659653067	0	547.0328046	9.095484	MRPL49P2	0	0.829826533	893.1261388	9.80272
WNT4	91.35332055	335.5741649	3.673365816	1.877103	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL21P59	0	0.829826533	893.1261388	9.80272
FAAP20	199.2162773	730.0404846	3.664562426	1.873641	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SDF4	619.6616804	2269.014718	3.661699262	1.872513	CSAG2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MOGAT1	8.80513933	32.22400921	3.65968192	1.871718	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLEKHD1	8.80513933	32.22400921	3.65968192	1.871718	CALR3	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF648	8.80513933	32.22400921	3.65968192	1.871718	LINC02965	1.659653067	0	547.0328046	9.095484	NDUFB9P3	0	0.829826533	893.1261388	9.80272
ENSG000002	8.80513933	32.22400921	3.65968192	1.871718	ZNF209P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPAG6	26.41541799	96.67202764	3.65968192	1.871718	SPIB	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAPPC14	99.05781747	362.2423104	3.656877566	1.870612	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TWIST1	23.11349074	84.44912759	3.65367259	1.869347	CCDC194	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PBXIP1	521.7045053	1904.550062	3.650629892	1.868145	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02839	0	0.829826533	893.1261388	9.80272
ENSG000002	28.61670282	104.4502368	3.649974541	1.867886	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC4A1	14.30835141	52.22511838	3.649974541	1.867886	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF8-ERVK3	14.30835141	52.22511838	3.649974541	1.867886	ENSG000002	1.659653067	0	547.0328046	9.095484	HMGB1P46	0	0.829826533	893.1261388	9.80272
FAAH2	127.6745203	465.5813745	3.646627169	1.866563	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND6P20	0	0.829826533	893.1261388	9.80272
PTK7	1166.680961	4251.34687	3.643966955	1.86551	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HDAC6	598.7494745	2179.009726	3.639267873	1.863648	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IFNLR1	69.34047223	252.23621	3.63764771	1.863006	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00824	0	0.829826533	893.1261388	9.80272
SPATA2L	27.51606041	100.0055458	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	IGKV2D-14	0	0.829826533	893.1261388	9.80272
FAM171A2	60.5353329	220.0122008	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01111	0	0.829826533	893.1261388	9.80272
CFAP300	22.01284833	80.00443666	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC03021	0	0.829826533	893.1261388	9.80272
ARPC1B	11.00642416	40.00221833	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDKL4	11.00642416	40.00221833	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OTUD4P1	5.503212081	20.00110917	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND1P6	0	0.829826533	893.1261388	9.80272
A1CF	5.503212081	20.00110917	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TTC16	5.503212081	20.00110917	3.634442734	1.861734	ENSG000002	1.659653067	0	547.0328046	9.095484	PHB1P17	0	0.829826533	893.1261388	9.80272
FAM205A	5.503212081	20.00110917	3.634442734	1.861734	MTATP6P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABCA9	337.8972218	1226.734696	3.630496543	1.860167	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPARG	115.5674537	418.9121198	3.624827807	1.857912	ENSG000002	1.659653067	0	547.0328046	9.095484	CAPS2-AS1	0	0.829826533	893.1261388	9.80272
MED16	494.1884449	1790.09927	3.622300944	1.856906	KNOP1P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABHD17B	108.9635992	394.4663197	3.620166023	1.856056	ENSG000002	1.659653067	0	547.0328046	9.095484	THAP12P4	0	0.829826533	893.1261388	9.80272
AP2A2	58.33404806	211.122819	3.619203981	1.855672	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02749	0	0.829826533	893.1261388	9.80272
LLGL1	126.5738779	457.8031654	3.61688504	1.854748	ENSG000002	1.659653067	0	547.0328046	9.095484	SUGT1P4	0	0.829826533	893.1261388	9.80272
PNPLA6	398.4325547	1436.746342	3.605996359	1.850398	TAF15	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GNPTAB	3534.162799	12742.92888	3.605642866	1.850257	ENSG000002	1.659653067	0	547.0328046	9.095484	FBXO3-DT	0	0.829826533	893.1261388	9.80272
PTOV1-AS2	69.34047223	250.0138646	3.605597951	1.850239	H3P8	1.659653067	0	547.0328046	9.095484	MRGPRX7P	0	0.829826533	893.1261388	9.80272
ADGRG7	7.704496914	27.77931829	3.605597951	1.850239	ENSG000002	1.659653067	0	547.0328046	9.095484	ARL14EP-DT	0	0.829826533	893.1261388	9.80272
MOAP1	7.704496914	27.77931829	3.605597951	1.850239	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CFAP52	7.704496914	27.77931829	3.605597951	1.850239	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLITRK1	7.704496914	27.77931829	3.605597951	1.850239	ENSG000002	1.659653067	0	547.0328046	9.095484	BBOX1-AS1	0	0.829826533	893.1261388	9.80272
MAN1C1	345.6017187	1244.513459	3.601004832	1.8484	LINC03067	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KIAA1958	348.903646	1255.625187	3.598773475	1.847505	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02686	0	0.829826533	893.1261388	9.80272
CSMD2	68.23982981	245.5691736	3.598619374	1.847444	MTCO1P22	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WNT11	72.64239948	261.1255919	3.594671896	1.84586	DPRXP2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLD1	389.6274154	1400.077642	3.593375585	1.84534	HTATSF1P2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM186B	9.905781747	35.55752741	3.589573071	1.843812	IFITM3P8	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C1QTNF3-AM	9.905781747	35.55752741	3.589573071	1.843812	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
B3GALNT1	91.35332055	327.7959558	3.588221575	1.843269	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FER1L6	24.21413316	86.67147305	3.57937542	1.839708	LINC02550	1.659653067	0	547.0328046	9.095484	INS	0	0.829826533	893.1261388	9.80272
ALOX15	12.10706658	43.33573653	3.57937542	1.839708	ENSG000002	1.659653067	0	547.0328046	9.095484	OR4A11P	0	0.829826533	893.1261388	9.80272
GPC4	320.2869431	1145.619086	3.57685229	1.838691	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMED1	105.661672	377.7987287	3.575551301	1.838166	TNPO3P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLTP	441.3576089	1577.865279	3.575026796	1.837954	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IL1RAPL1	40.7237694	145.5636278	3.574414401	1.837707	MROH7-TT(	1.659653067	0	547.0328046	9.095484	LINC02695	0	0.829826533	893.1261388	9.80272
EPHA10	112.2655265	401.133356	3.573076871	1.837167	ENSG000002	1.659653067	0	547.0328046	9.095484	ANKRD33BF	0	0.829826533	893.1261388	9.80272
PGLS	243.241974	867.8259033	3.56774733	1.835013	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GABPAP	23.11349074	82.22678213	3.557523312	1.830873	ENSG000002	1.659653067	0	547.0328046	9.095484	SYS1-DBNDI	0	0.829826533	893.1261388	9.80272
BBLN	25.31477557	90.00499125	3.55543311	1.830025	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM98C	86.95075089	308.9060193	3.552654994	1.828898	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MCOLN3	31.91863007	113.3396186	3.550892327	1.828182	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	31.91863007	113.3396186	3.550892327	1.828182	TTC32-DT	1.659653067	0	547.0328046	9.095484	OR4V1P	0	0.829826533	893.1261388	9.80272
PTN	607.5546138	2156.786272	3.54994633	1.827797	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02551	0	0.829826533	893.1261388	9.80272
DNASE2	127.6745203	452.2473017	3.542189159	1.824641	ARF4-AS1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C5AR1	71.54175706	253.3473828	3.541251895	1.824259	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP54	2071.409027	7329.295337	3.538313891	1.823062	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

R3HDM4	117.7687385	416.6897743	3.538203597	1.823017	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INSIG1	119.9700234	424.4679834	3.538117035	1.822982	POU2F1-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADAMTS1	950.9550477	3361.297513	3.534654473	1.821569	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC00678	0	0.829826533	893.1261388	9.80272
BEND5	33.01927249	116.6731368	3.533485992	1.821092	RNU6-90P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GAREM2	22.01284833	77.7820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02763	0	0.829826533	893.1261388	9.80272
IRF7	17.61027866	62.22567296	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GTF2H1	11.00642416	38.8910456	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRPV3	11.00642416	38.8910456	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02324	0	0.829826533	893.1261388	9.80272
ATP1A4	8.80513933	31.11283648	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BTNL3	8.80513933	31.11283648	3.533485992	1.821092	ZSWIM8-AS	1.659653067	0	547.0328046	9.095484	COX5BP4	0	0.829826533	893.1261388	9.80272
TFAP2A-AS1	8.80513933	31.11283648	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ARL6IP1P3	0	0.829826533	893.1261388	9.80272
SLC22A9	6.603854498	23.33462736	3.533485992	1.821092	EFCAB10-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GLOD5	6.603854498	23.33462736	3.533485992	1.821092	PPP4R3B-D1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
S100A14	6.603854498	23.33462736	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	23.33462736	3.533485992	1.821092	HNRNPD-D	1.659653067	0	547.0328046	9.095484	TTC12-DT	0	0.829826533	893.1261388	9.80272
GUCY2F	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SOX21	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C1orf94	4.402569665	15.55641824	3.533485992	1.821092	HK2-DT	1.659653067	0	547.0328046	9.095484	OR5AM1P	0	0.829826533	893.1261388	9.80272
ASB15	4.402569665	15.55641824	3.533485992	1.821092	SLC30A6-D	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TGM6	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR10H3	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	OR5M11	0	0.829826533	893.1261388	9.80272
ACBD7	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02690	0	0.829826533	893.1261388	9.80272
SLC47A2	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	CHKA-DT	0	0.829826533	893.1261388	9.80272
GALR2	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GJB3	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AKR1B10	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DPRX	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	OR4A50P	0	0.829826533	893.1261388	9.80272
SF3A3P1	4.402569665	15.55641824	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ANKRD33BF	0	0.829826533	893.1261388	9.80272
FGF20	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC52A1	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NMUR2	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RGS8	2.201284833	7.77820912	3.533485992	1.821092	RALGPS2-A	1.659653067	0	547.0328046	9.095484	MTCO1P15	0	0.829826533	893.1261388	9.80272
SSC4D	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ASS1P13	0	0.829826533	893.1261388	9.80272
ART5	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02761	0	0.829826533	893.1261388	9.80272
TBX10	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	PCDHA3	0	0.829826533	893.1261388	9.80272
RNASE3	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	RSF1-IT1	0	0.829826533	893.1261388	9.80272
KRT83	2.201284833	7.77820912	3.533485992	1.821092	CNNM3-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HORMAD2	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2B11	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02951	0	0.829826533	893.1261388	9.80272
F2	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	OR8A2P	0	0.829826533	893.1261388	9.80272
FIGLA	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACOT6	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HNRNPA1P4	2.201284833	7.77820912	3.533485992	1.821092	LINC02725	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MIR433	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	RPA2P3	0	0.829826533	893.1261388	9.80272
ZNF402P	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	OR7E1P	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TDGF1P3	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SHISA5P1	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	RERG-AS1	0	0.829826533	893.1261388	9.80272
IL9RP3	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SDHDP2	2.201284833	7.77820912	3.533485992	1.821092	MIR6075	1.659653067	0	547.0328046	9.095484	OR4D2	0	0.829826533	893.1261388	9.80272
PPIAP19	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	GNAI2P1	0	0.829826533	893.1261388	9.80272
CTAGE7P	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LEFTY3P	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDX50P2	2.201284833	7.77820912	3.533485992	1.821092	Metazoa_SRI	1.659653067	0	547.0328046	9.095484	PABPN1P2	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FABP6-AS1	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SRPK2P	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ARAP1-AS1	0	0.829826533	893.1261388	9.80272
GLYATL1P4	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ELOCP31	0	0.829826533	893.1261388	9.80272
SPON1-AS1	2.201284833	7.77820912	3.533485992	1.821092	HEPFAL	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TIFAB	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	A2MP1	0	0.829826533	893.1261388	9.80272
PDE2A-AS2	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC01152	0	0.829826533	893.1261388	9.80272
NUP153-AS1	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EIF3FP1	2.201284833	7.77820912	3.533485992	1.821092	U2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPATA31A7	2.201284833	7.77820912	3.533485992	1.821092	GUSBP7	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	7.77820912	3.533485992	1.821092	Metazoa_SRI	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATP5MC1P2	2.201284833	7.77820912	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BOLA1	26.41541799	93.33850944	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	TAS2R31	0	0.829826533	893.1261388	9.80272
BPI	13.207709	46.66925472	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	DNAJB6P5	0	0.829826533	893.1261388	9.80272
ENSG000002	13.207709	46.66925472	3.533485992	1.821092	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCRN2	113.3661689	400.0221833	3.528585179	1.81909	SEC22B3P	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIP5K1B	51.73019357	182.232328	3.522745913	1.8167	RPL7AP45	1.659653067	0	547.0328046	9.095484	LINC02390	0	0.829826533	893.1261388	9.80272
TNK2	731.9272068	2576.809564	3.520581747	1.815814	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC01965	0	0.829826533	893.1261388	9.80272
CBX2	34.11991491	120.006655	3.517202646	1.814428	PDCD6IPP1	1.659653067	0	547.0328046	9.095484	RERG-IT1	0	0.829826533	893.1261388	9.80272
ZFHX3-AS1	25.31477557	88.89381852	3.511538874	1.812103	FGD5P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UBE2CP5	25.31477557	88.89381852	3.511538874	1.812103	LINC03043	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
G6PD	302.6766645	1062.281131	3.509623489	1.811316	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM45B	46.22698148	162.2312188	3.509448672	1.811244	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPFIA3	20.91220591	73.33740027	3.506918428	1.810204	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ISLR	18.71092108	65.55919115	3.503792832	1.808917	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMB5	325.7901552	1141.174395	3.502789685	1.808504	MIR7975	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
YIF1B	89.15203572	312.2395375	3.502326503	1.808314	ENSG00000	1.659653067	0	547.0328046	9.095484	TPT1P12	0	0.829826533	893.1261388	9.80272
SLC5A3	472.1755966	1653.425024	3.501716388	1.808062	Metazoa_SRI	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADCY8	16.50963624	57.78098203	3.499833744	1.807286	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EFNA1	214.6252712	751.1527665	3.499833744	1.807286	ENSG00000	1.659653067	0	547.0328046	9.095484	SLC5A8	0	0.829826533	893.1261388	9.80272
SEMA6C	158.4925079	554.475193	3.498431567	1.806708	ENSG00000	1.659653067	0	547.0328046	9.095484	KRT17P8	0	0.829826533	893.1261388	9.80272
RCBTB1	265.2548223	927.8292308	3.497878842	1.80648	ENSG00000	1.659653067	0	547.0328046	9.095484	PPP1R14B-A	0	0.829826533	893.1261388	9.80272
DENND1A	660.3854498	2309.016936	3.49646852	1.805899	ENSG00000	1.659653067	0	547.0328046	9.095484	TMEM109-D	0	0.829826533	893.1261388	9.80272
PLP1	14.30835141	50.00277291	3.494656475	1.805151	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRC43	14.30835141	50.00277291	3.494656475	1.805151	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	14.30835141	50.00277291	3.494656475	1.805151	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGF2BP2	28.61670282	100.0055458	3.494656475	1.805151	ENSG00000	1.659653067	0	547.0328046	9.095484	LINC02703	0	0.829826533	893.1261388	9.80272
CHST15	311.4818038	1087.838104	3.492461167	1.804244	ENSG00000	1.659653067	0	547.0328046	9.095484	RPEP6	0	0.829826533	893.1261388	9.80272
AURKAIP1	113.3661689	395.5774924	3.489378677	1.80297	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WFIKKN1	12.10706658	42.22456379	3.487596563	1.802233	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AFAP1L1	46.22698148	161.1200461	3.485411353	1.801329	MIR6083	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZDHHC15	29.71734524	103.339064	3.477398913	1.798009	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMIGD3	9.905781747	34.44635467	3.477398913	1.798009	ENSG00000	1.659653067	0	547.0328046	9.095484	HNRNPA1P5	0	0.829826533	893.1261388	9.80272
MAP1LC3B2	9.905781747	34.44635467	3.477398913	1.798009	ENSG00000	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
JRK	181.6059987	631.1461115	3.475359382	1.797162	DUSP12P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

KSR2	189.3104956	657.814257	3.474790211	1.796926	RNA5SP530	1.659653067	0	547.0328046	9.095484	LNCOG	0	0.829826533	893.1261388	9.80272
CNTNAP3P2	17.61027866	61.11450023	3.470388028	1.795097	ENSG000002	1.659653067	0	547.0328046	9.095484	KIRREL3-AS	0	0.829826533	893.1261388	9.80272
MACIR	118.869381	412.2450834	3.468051066	1.794125	SPANXA2-C	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SYTL5	25.31477557	87.78264578	3.467644638	1.793956	GTSE1-DT	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF730	25.31477557	87.78264578	3.467644638	1.793956	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TP53I11	368.7152095	1277.848641	3.465679224	1.793138	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR27	63.83726015	221.1233736	3.463860652	1.792381	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ESR1	541.5160688	1875.659571	3.463719137	1.792322	RN7SL473P	1.659653067	0	547.0328046	9.095484	VENTXP3	0	0.829826533	893.1261388	9.80272
HECW2	71.54175706	247.7915191	3.463592862	1.792269	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SFR1	7.704496914	26.66814555	3.461374033	1.791345	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ITGAD	7.704496914	26.66814555	3.461374033	1.791345	SLCO4A1-A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MFSD2B	7.704496914	26.66814555	3.461374033	1.791345	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01154	0	0.829826533	893.1261388	9.80272
RPTN	7.704496914	26.66814555	3.461374033	1.791345	ENSG000002	1.659653067	0	547.0328046	9.095484	PAFAH1B2P.	0	0.829826533	893.1261388	9.80272
LRTOMT	7.704496914	26.66814555	3.461374033	1.791345	H3C5P	1.659653067	0	547.0328046	9.095484	SFTA3.1	0	0.829826533	893.1261388	9.80272
ZNF517	46.22698148	160.0088733	3.461374033	1.791345	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ALPK2	23.11349074	80.00443666	3.461374033	1.791345	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COX8A	51.73019357	178.8988098	3.458305439	1.790065	ENSG000002	1.659653067	0	547.0328046	9.095484	GALNT4	0	0.829826533	893.1261388	9.80272
APBB3	106.7623144	368.9093468	3.455426655	1.788864	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARMC5	91.35332055	315.5730557	3.454423483	1.788445	ENSG000002	1.659653067	0	547.0328046	9.095484	C12orf75-AS1	0	0.829826533	893.1261388	9.80272
BTG3	91.35332055	315.5730557	3.454423483	1.788445	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UCP3	34.11991491	117.7843095	3.452069264	1.787461	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PTPRT	1139.164901	3932.440297	3.452037799	1.787448	ENSG000002	1.659653067	0	547.0328046	9.095484	CPNE8-AS1	0	0.829826533	893.1261388	9.80272
GNG4	86.95075089	300.0166375	3.450420318	1.786772	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02399	0	0.829826533	893.1261388	9.80272
CA11	63.83726015	220.0122008	3.446454317	1.785113	Metazoa_SRI	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SOWAHB	149.6873686	515.5841474	3.444406513	1.784255	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TBC1D17	332.3940097	1144.507913	3.443226652	1.783761	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC6A8	209.1220591	718.9287572	3.437842762	1.781504	ENSG000002	1.659653067	0	547.0328046	9.095484	KRT18P20	0	0.829826533	893.1261388	9.80272
ACADS	46.22698148	158.8977006	3.437336713	1.781291	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM234A	650.479668	2234.568363	3.435262427	1.78042	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LPAR2	90.25267814	310.0171921	3.434991609	1.780307	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SYNGAP1	33.01927249	113.3396186	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NUTM2A	11.00642416	37.77987287	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	NOVA1-DT	0	0.829826533	893.1261388	9.80272
NPIPB10P	11.00642416	37.77987287	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	CASC18	0	0.829826533	893.1261388	9.80272
SLC22A16	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	C12orf42-AS1	0	0.829826533	893.1261388	9.80272
FCN3	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NLRP14	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02258	0	0.829826533	893.1261388	9.80272
ALPI	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	TEN1	0	0.829826533	893.1261388	9.80272
SUN5	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HTR1E	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MARCHF3	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	R3HDM2-DT	0	0.829826533	893.1261388	9.80272
TSGA13	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FABP5P7	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ARHGAP42P	0	0.829826533	893.1261388	9.80272
HNRNPCP3	5.503212081	18.88993643	3.432529249	1.779272	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAPN5	928.9421994	3187.954566	3.431811547	1.77897	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02823	0	0.829826533	893.1261388	9.80272
GNG5	58.33404806	200.0110917	3.428719561	1.77767	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IER2	125.4732355	430.0238471	3.427215736	1.777037	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCDHGA3	50.62955115	173.3429461	3.423750402	1.775578	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRPS2	234.4368347	802.2667121	3.422101792	1.774883	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF213-AS1	79.24625397	271.1261465	3.421311833	1.77455	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UBL5	303.7773069	1038.946504	3.420092549	1.774035	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02424	0	0.829826533	893.1261388	9.80272
S100A16	48.42826632	165.564737	3.418762421	1.773474	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OXLD1	42.92505424	146.6748005	3.416997443	1.772729	ENSG000002	1.659653067	0	547.0328046	9.095484	ARHGAP42P	0	0.829826533	893.1261388	9.80272
GLUL	1635.554631	5586.976494	3.415952234	1.772288	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND2P17	0	0.829826533	893.1261388	9.80272
DNAH6	345.6017187	1180.065441	3.414524225	1.771685	OR4C16	1.659653067	0	547.0328046	9.095484	CLUHP8	0	0.829826533	893.1261388	9.80272
ATP6AP1	1005.987168	3434.634913	3.414193561	1.771545	ENSG000002	1.659653067	0	547.0328046	9.095484	BRWD1P2	0	0.829826533	893.1261388	9.80272
ENDOV	106.7623144	364.4646559	3.413795008	1.771376	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNASE1	337.8972218	1153.397295	3.413455988	1.771233	ENSG000002	1.659653067	0	547.0328046	9.095484	SNRPF-DT	0	0.829826533	893.1261388	9.80272
ADISSP	46.22698148	157.7865279	3.413299393	1.771167	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CPNE4	1277.845845	4361.352971	3.413050946	1.771062	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MEX3D	303.7773069	1035.612986	3.40911899	1.769399	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02318	0	0.829826533	893.1261388	9.80272
NUBP2	119.9700234	408.9115652	3.408447824	1.769115	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02320	0	0.829826533	893.1261388	9.80272
CDK11A	8.80513933	30.00166375	3.407290064	1.768625	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CASQ1	8.80513933	30.00166375	3.407290064	1.768625	ENSG000002	1.659653067	0	547.0328046	9.095484	EGILA	0	0.829826533	893.1261388	9.80272
RPL37AP1	8.80513933	30.00166375	3.407290064	1.768625	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COMMD5	117.7687385	401.133356	3.406110662	1.768125	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02313	0	0.829826533	893.1261388	9.80272
MICOS13	100.1584599	341.1300286	3.405903295	1.768037	ENSG000002	1.659653067	0	547.0328046	9.095484	PPIAP6	0	0.829826533	893.1261388	9.80272
SPHK2	156.2912231	532.2517384	3.405512656	1.767872	ENSG000002	1.659653067	0	547.0328046	9.095484	ZFP64P1	0	0.829826533	893.1261388	9.80272
OPLAH	321.3875856	1093.393968	3.40210393	1.766427	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02295	0	0.829826533	893.1261388	9.80272
PNMA8A	99.05781747	336.6853376	3.398877002	1.765058	OR51F1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OBSL1	894.8222845	3041.279766	3.398752824	1.765005	ENSG000002	1.659653067	0	547.0328046	9.095484	RHOXF1-AS	0	0.829826533	893.1261388	9.80272
WNK3	629.5674621	2137.896335	3.395817706	1.763759	LINC02912	1.659653067	0	547.0328046	9.095484	OR7E106P	0	0.829826533	893.1261388	9.80272
HDAC5	465.5717421	1580.087624	3.393864965	1.762929	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CSKMT	15.40899383	52.22511838	3.389262074	1.760971	ENSG000002	1.659653067	0	547.0328046	9.095484	OR4N1P	0	0.829826533	893.1261388	9.80272
PPA2	619.6616804	2100.116462	3.389133989	1.760917	ENSG000002	1.659653067	0	547.0328046	9.095484	H1-8P2	0	0.829826533	893.1261388	9.80272
INSYN1	64.93790256	220.0122008	3.388039837	1.760451	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAP4K2	168.3982897	570.0316112	3.385020194	1.759164	ENSG000002	1.659653067	0	547.0328046	9.095484	METTL5P1	0	0.829826533	893.1261388	9.80272
STK32C	63.83726015	215.5675099	3.376828977	1.755669	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GALE	45.12633907	152.2306642	3.373432619	1.754217	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DISP3	36.32119974	122.2290005	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01629	0	0.829826533	893.1261388	9.80272
NPIPB6	19.81156349	66.67036389	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OMD	9.905781747	33.33518194	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SYT6	9.905781747	33.33518194	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RSPH6A	6.603854498	22.22345463	3.365224754	1.750703	LINC01348	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC10A4	6.603854498	22.22345463	3.365224754	1.750703	PCAT5	1.659653067	0	547.0328046	9.095484	LINC02319	0	0.829826533	893.1261388	9.80272
SVOP	6.603854498	22.22345463	3.365224754	1.750703	CPS1-IT1	1.659653067	0	547.0328046	9.095484	OR11H3P	0	0.829826533	893.1261388	9.80272
A3GALT2	6.603854498	22.22345463	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	DDHD1-DT	0	0.829826533	893.1261388	9.80272
ELAVL3	6.603854498	22.22345463	3.365224754	1.750703	LINC00538	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	22.22345463	3.365224754	1.750703	DUX4L8	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PDE4C	3.301927249	11.11172731	3.365224754	1.750703	PAUPAR	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OPN1SW	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01568	0	0.829826533	893.1261388	9.80272
LIN28A	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	CDRT15P13	0	0.829826533	893.1261388	9.80272
CHST4	3.301927249	11.11172731	3.365224754	1.750703	FRG2EP	1.659653067	0	547.0328046	9.095484	SEPHS1P2	0	0.829826533	893.1261388	9.80272
OTOP1	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM47DP	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5J2	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC03058	0	0.829826533	893.1261388	9.80272
RNF222	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	TRAV33	0	0.829826533	893.1261388	9.80272
ADH7	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02289	0	0.829826533	893.1261388	9.80272
ARID3C	3.301927249	11.11172731	3.365224754	1.750703	MIR2052	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAV5	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	EEF1A1P33	0	0.829826533	893.1261388	9.80272
CDC14C	3.301927249	11.11172731	3.365224754	1.750703	MIR4320	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	11.11172731	3.365224754	1.750703	MIR4454	1.659653067	0	547.0328046	9.095484	LINC02296	0	0.829826533	893.1261388	9.80272

LINC03051	3.301927249	11.11172731	3.365224754	1.750703	MIR1244-2	1.659653067	0	547.0328046	9.095484	EIF4EBP1P1	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	11.11172731	3.365224754	1.750703	MIR3975	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GRM5-AS1	3.301927249	11.11172731	3.365224754	1.750703	MIR4317	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RDM1P5	3.301927249	11.11172731	3.365224754	1.750703	MIR924	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAP2K4P1	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02299	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	11.11172731	3.365224754	1.750703	ENSG000002	1.659653067	0	547.0328046	9.095484	MPPE1P1	0	0.829826533	893.1261388	9.80272
PAPLN	166.1970049	558.9198839	3.362996128	1.749747	ENSG000002	1.659653067	0	547.0328046	9.095484	PARP1P2	0	0.829826533	893.1261388	9.80272
APRT	104.5610295	351.1305831	3.35814007	1.747662	ENSG000002	1.659653067	0	547.0328046	9.095484	NF1P2	0	0.829826533	893.1261388	9.80272
COPZ2	50.62955115	170.0094279	3.357909048	1.747563	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ILVBL	128.7751627	432.2461925	3.356595973	1.746999	ENSG000002	1.659653067	0	547.0328046	9.095484	TPRX2	0	0.829826533	893.1261388	9.80272
BCO2	37.42184215	125.5625187	3.355327034	1.746453	TBCE	1.659653067	0	547.0328046	9.095484	TPRX1P1	0	0.829826533	893.1261388	9.80272
NTHL1	34.11991491	114.4507913	3.35436919	1.746041	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00524	0	0.829826533	893.1261388	9.80272
SYN2	34.11991491	114.4507913	3.35436919	1.746041	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC27A5	27.51606041	92.22733671	3.351763855	1.744921	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TAMALIN	27.51606041	92.22733671	3.351763855	1.744921	LINC02795	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AZIN2	51.73019357	173.3429461	3.350904649	1.744551	SOD2-OT1	1.659653067	0	547.0328046	9.095484	DUXAP1	0	0.829826533	893.1261388	9.80272
BAIAP3	318.0856583	1065.614649	3.350087065	1.744199	ENSG000002	1.659653067	0	547.0328046	9.095484	THRAP3P2	0	0.829826533	893.1261388	9.80272
MAD2L2	114.4668113	383.3545923	3.349045789	1.74375	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AGPAT2	175.0021442	585.5880295	3.346176312	1.742513	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LSR	830.9850243	2779.043001	3.344275673	1.741694	ENSG000002	1.659653067	0	547.0328046	9.095484	SMARCE1P3	0	0.829826533	893.1261388	9.80272
EPHB3	280.6638162	937.8297853	3.341470226	1.740483	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R3D	28.61670282	95.5608549	3.33933841	1.739562	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IRS2	416.0428334	1388.965914	3.338516621	1.739207	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRC14	209.1220591	696.7053026	3.331572507	1.736203	LINC02680	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R14C	11.00642416	36.66870014	3.331572507	1.736203	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRMT6	151.8886534	505.5835928	3.328646224	1.734936	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKP2	766.0471217	2549.030246	3.327511028	1.734443	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC9A5	18.71092108	62.22567296	3.325633875	1.733629	ENSG000002	1.659653067	0	547.0328046	9.095484	NPM1P42	0	0.829826533	893.1261388	9.80272
MFSD13A	18.71092108	62.22567296	3.325633875	1.733629	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	18.71092108	62.22567296	3.325633875	1.733629	ENSG000002	1.659653067	0	547.0328046	9.095484	IGHV2OR16-	0	0.829826533	893.1261388	9.80272
NCLN	225.6316953	748.930421	3.319260709	1.730862	ENSG000002	1.659653067	0	547.0328046	9.095484	ZHX1-C8orf7	0	0.829826533	893.1261388	9.80272
EML5	1031.301944	3421.30084	3.317457957	1.730078	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM187	15.40899383	51.11394565	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ST20-MTHFS	0	0.829826533	893.1261388	9.80272
RAB43P1	15.40899383	51.11394565	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00596	0	0.829826533	893.1261388	9.80272
PACRG	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOLH1B	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZIC4	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLCXD3	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CFAP299	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TUFMP1	7.704496914	25.55697282	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02895	0	0.829826533	893.1261388	9.80272
LAGE3	30.81798766	102.2278913	3.317150115	1.729944	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GDPD5	89.15203572	295.5719466	3.315369573	1.72917	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HPN	314.7837311	1042.280022	3.311098762	1.72731	LINC02964	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLOD1	666.9893043	2207.900217	3.31024831	1.726939	ENSG000002	1.659653067	0	547.0328046	9.095484	BMF-AS1	0	0.829826533	893.1261388	9.80272
MYL5	19.81156349	65.55919115	3.309137675	1.726455	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02883	0	0.829826533	893.1261388	9.80272
MRPL54	68.23982981	225.5680645	3.305519154	1.724877	RNVU1-8	1.659653067	0	547.0328046	9.095484	UBE2Q2P2	0	0.829826533	893.1261388	9.80272
MAMSTR	24.21413316	80.00443666	3.30403885	1.724231	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MEFV	12.10706658	40.00221833	3.30403885	1.724231	ENSG000002	1.659653067	0	547.0328046	9.095484	NPM1P43	0	0.829826533	893.1261388	9.80272
GABBR2	12.10706658	40.00221833	3.30403885	1.724231	ENSG000002	1.659653067	0	547.0328046	9.095484	WBP1LP5	0	0.829826533	893.1261388	9.80272
SLC24A4	12.10706658	40.00221833	3.30403885	1.724231	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NDUFB2-AS1	12.10706658	40.00221833	3.30403885	1.724231	ENSG000002	1.659653067	0	547.0328046	9.095484	ANP32BP3	0	0.829826533	893.1261388	9.80272
CMBL	239.9400468	792.2661575	3.30193383	1.723311	ENSG000002	1.659653067	0	547.0328046	9.095484	NDUFAF4P1	0	0.829826533	893.1261388	9.80272
ARRDC1	182.7066411	602.2556204	3.296298464	1.720847	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R32	20.91220591	68.89270935	3.294377917	1.720006	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02253	0	0.829826533	893.1261388	9.80272
PGAP3	255.3490406	841.1577577	3.294148886	1.719906	ENSG000002	1.659653067	0	547.0328046	9.095484	IGHV3OR15-	0	0.829826533	893.1261388	9.80272
CAPN10	170.5995745	561.1422294	3.289235808	1.717752	ENSG000002	1.659653067	0	547.0328046	9.095484	TFDP1P3	0	0.829826533	893.1261388	9.80272
MLF1	115.5674537	380.0210742	3.288305331	1.717344	ENSG000002	1.659653067	0	547.0328046	9.095484	GEMIN8P1	0	0.829826533	893.1261388	9.80272
SLC27A4	158.4925079	521.140011	3.28810502	1.717256	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHOB	534.9122143	1755.652916	3.282132785	1.714634	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANTKMT	17.61027866	57.78098203	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NEUROD2	8.80513933	28.89049102	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VSX1	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PMP2	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01491	0	0.829826533	893.1261388	9.80272
IGF2BP1	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HIPK4	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ISX	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01582	0	0.829826533	893.1261388	9.80272
TOB2P1	4.402569665	14.44524551	3.281094135	1.714177	MAP3K5-AS	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PDE6G	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2L13	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR13G1	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2L6P	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	IDH2-DT	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KPNA2P1	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01581	0	0.829826533	893.1261388	9.80272
CCDC28A-AS	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	14.44524551	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FANCE	26.41541799	86.67147305	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNU1	26.41541799	86.67147305	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CPNE9	13.207709	43.33573653	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	IGHV3OR16-	0	0.829826533	893.1261388	9.80272
ATP2C2-AS1	13.207709	43.33573653	3.281094135	1.714177	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RUSC1	106.7623144	350.0194104	3.278492157	1.713032	ENSG000002	1.659653067	0	547.0328046	9.095484	NR4A1AS	0	0.829826533	893.1261388	9.80272
CEL	46.22698148	151.1194915	3.269075475	1.708883	ENSG000002	1.659653067	0	547.0328046	9.095484	FRG2JP	0	0.829826533	893.1261388	9.80272
APC2	23.11349074	75.55974574	3.269075475	1.708883	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATG2A	501.8929418	1640.090952	3.267810353	1.708324	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ITM2C	1412.12422	4612.478008	3.26634013	1.707675	ENSG000002	1.659653067	0	547.0328046	9.095484	PKD1-AS1	0	0.829826533	893.1261388	9.80272
CHGB	18.71092108	61.11450023	3.266247555	1.707634	ENSG000002	1.659653067	0	547.0328046	9.095484	CDRT7	0	0.829826533	893.1261388	9.80272
TMEM276	70.44111464	230.0127554	3.265319644	1.707224	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC35G2	75.94432672	247.7915191	3.26280487	1.706113	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM131A	90.25267814	294.4607738	3.262626438	1.706034	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCUBE3	118.869381	387.7992833	3.262398442	1.705933	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
STBD1	14.30835141	46.66925472	3.261679377	1.705615	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COL25A1	42.92505424	140.0077642	3.261679377	1.705615	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AP1M2	374.2184215	1220.067659	3.260308924	1.705009	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INHBB	96.85653263	315.5730557	3.258149421	1.704053	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MORC1	19.81156349	64.44801842	3.253050596	1.701793	ENSG000002	1.659653067	0	547.0328046	9.095484	DDX59-AS1	0	0.829826533	893.1261388	9.80272
MAP3K14-AS	19.81156349	64.44801842	3.253050596	1.701793	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADH1A	9.905781747	32.22400921	3.253050596	1.701793	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHMP1A	118.869381	386.6881105	3.253050596	1.701793	ENSG000002	1.659653067	0	547.0328046	9.095484	MMP2-AS1	0	0.829826533	893.1261388	9.80272
TMEM175	189.3104956	615.5896932	3.251746245	1.701215	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KPTN	75.94432672	246.6803464	3.248173458	1.699629	ENSG000002	1.659653067	0	547.0328046	9.095484	CPNE2-DT	0	0.829826533	893.1261388	9.80272

PPP1R16A	179.4047139	582.2545113	3.24548056	1.698432	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CPAMD8	834.2869516	2705.705601	3.243135466	1.697389	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RECQL5	280.6638162	910.050467	3.242493028	1.697103	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PITPNM1	280.6638162	910.050467	3.242493028	1.697103	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02137	0	0.829826533	893.1261388	9.80272
ST3GAL1	136.4796596	442.2467471	3.240385771	1.696166	ENSG000002	1.659653067	0	547.0328046	9.095484	PPIAP48	0	0.829826533	893.1261388	9.80272
CLIC6	68.23982981	221.1233736	3.240385771	1.696166	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SEMA3B	126.5738779	410.0227379	3.239394611	1.695724	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLPP2	305.9785917	991.1660764	3.239331454	1.695696	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02533	0	0.829826533	893.1261388	9.80272
ZSWIM8	1625.648849	5264.736402	3.238544662	1.695346	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C19orf25	74.84368431	242.2356555	3.236554396	1.694459	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NIPAL1	70.44111464	227.7904099	3.233770662	1.693217	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADAM33	159.5931504	515.5841474	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	BMP2K-DT	0	0.829826533	893.1261388	9.80272
TTF2	209.1220591	675.5930207	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	TPSP2	0	0.829826533	893.1261388	9.80272
ADAMTS4	22.01284833	71.11505481	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ARMH2	0	0.829826533	893.1261388	9.80272
SYT9	22.01284833	71.11505481	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ACTG1P16	0	0.829826533	893.1261388	9.80272
ZNF410	11.00642416	35.55752741	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C4orf50	11.00642416	35.55752741	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	HSPB9	0	0.829826533	893.1261388	9.80272
TRIM16L	11.00642416	35.55752741	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ASB9	5.503212081	17.7787637	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	WBP11P1	0	0.829826533	893.1261388	9.80272
ESRRB	5.503212081	17.7787637	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	VPS51P1	0	0.829826533	893.1261388	9.80272
STRA8	5.503212081	17.7787637	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PM20D1	5.503212081	17.7787637	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	CISTR	0	0.829826533	893.1261388	9.80272
DMRT2	5.503212081	17.7787637	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANKRD29	77.04496914	248.9026918	3.230615764	1.691809	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIGO	482.0813783	1555.641824	3.226927846	1.690161	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNPEP	471.0749542	1517.861951	3.222124075	1.688012	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNFRSF21	522.8051477	1684.537861	3.222114144	1.688008	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLD3	790.2612549	2544.585555	3.219929535	1.687029	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
THAP8	40.7237694	131.1183823	3.219701522	1.686927	ENSG000002	1.659653067	0	547.0328046	9.095484	FRG2IP	0	0.829826533	893.1261388	9.80272
CCDC28A	99.05781747	318.9065739	3.219398348	1.686791	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCP	17.61027866	56.6698093	3.217996171	1.686163	ENSG000002	1.659653067	0	547.0328046	9.095484	RPL23AP97	0	0.829826533	893.1261388	9.80272
RABEP2	190.411138	612.256175	3.215443074	1.685018	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAVIN4	12.10706658	38.8910456	3.212259993	1.683589	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRN4CL	12.10706658	38.8910456	3.212259993	1.683589	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TECTA	30.81798766	98.8943731	3.208982176	1.682116	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HS3ST4	18.71092108	60.0033275	3.206861236	1.681162	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZBTB48	121.0706658	387.7992833	3.203082107	1.679461	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00543	0	0.829826533	893.1261388	9.80272
NR1H2	353.3062156	1130.062668	3.198536051	1.677412	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLS1	150.788011	482.2489654	3.198191701	1.677256	ENSG000002	1.659653067	0	547.0328046	9.095484	VN1R69P	0	0.829826533	893.1261388	9.80272
RABL3	171.7002169	548.9193293	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00554	0	0.829826533	893.1261388	9.80272
TTC29	6.603854498	21.1122819	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	CES1P2	0	0.829826533	893.1261388	9.80272
WFDC5	6.603854498	21.1122819	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2W3	6.603854498	21.1122819	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02280	0	0.829826533	893.1261388	9.80272
NACA2	6.603854498	21.1122819	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OVCH1	19.81156349	63.33684569	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HAL	26.41541799	84.44912759	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	NDUFB10P1	0	0.829826533	893.1261388	9.80272
C15orf48	26.41541799	84.44912759	3.196963516	1.676702	ELOA3BP	1.659653067	0	547.0328046	9.095484	VN1R65P	0	0.829826533	893.1261388	9.80272
SAMD13	13.207709	42.22456379	3.196963516	1.676702	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NPDC1	161.7944352	516.6953201	3.193529614	1.675152	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
STXBP6	48.42826632	154.4530097	3.189315278	1.673247	ENSG000002	1.659653067	0	547.0328046	9.095484	SPCS2P1	0	0.829826533	893.1261388	9.80272
ANO3	20.91220591	66.67036389	3.188107662	1.6727	ENSG000002	1.659653067	0	547.0328046	9.095484	MTCH2P4	0	0.829826533	893.1261388	9.80272
SPAG4	14.30835141	45.55808199	3.184020344	1.67085	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02555	0	0.829826533	893.1261388	9.80272
AP2S1	193.7130653	616.7008659	3.1835791	1.67065	ENSG000002	1.659653067	0	547.0328046	9.095484	FOXC2-AS1	0	0.829826533	893.1261388	9.80272
RELN	413.8415485	1315.628514	3.179063385	1.668602	ENSG000002	1.659653067	0	547.0328046	9.095484	USP7-AS1	0	0.829826533	893.1261388	9.80272
TMC7	45.12633907	143.3412824	3.176443853	1.667413	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENGASE	181.6059987	576.6986476	3.17554845	1.667006	ENSG000002	1.659653067	0	547.0328046	9.095484	RARRES2P6	0	0.829826533	893.1261388	9.80272
SMUG1	75.94432672	241.1244827	3.175016398	1.666764	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GOLGA6A	7.704496914	24.44580009	3.172926197	1.665814	ENSG000002	1.659653067	0	547.0328046	9.095484	GS1-279B7.1	0	0.829826533	893.1261388	9.80272
PTPRR	15.40899383	48.89160018	3.172926197	1.665814	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CTDNEP1	78.14561156	247.7915191	3.170894874	1.66489	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02544	0	0.829826533	893.1261388	9.80272
CTC1	517.3019357	1640.090952	3.170471322	1.664697	ENSG000002	1.659653067	0	547.0328046	9.095484	C2orf69P1	0	0.829826533	893.1261388	9.80272
UQCRQ	230.034265	728.9293118	3.168785797	1.66393	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ITPR3	1260.235567	3989.110106	3.165368612	1.662374	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLXNA1	902.5267814	2856.825093	3.165363235	1.662371	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PNKP	326.8907976	1034.501813	3.164670956	1.662056	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC2A1	300.4753796	950.0526854	3.161832049	1.660761	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ELOB	283.9657434	897.827567	3.161746048	1.660721	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NIBAN2	1615.743067	5101.39401	3.157305214	1.658694	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02473	0	0.829826533	893.1261388	9.80272
MPND	104.5610295	330.0183012	3.156226585	1.658201	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
THEG	8.80513933	27.77931829	3.154898207	1.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CNTNAP3	8.80513933	27.77931829	3.154898207	1.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	UBE2FP2	0	0.829826533	893.1261388	9.80272
C1QL1	8.80513933	27.77931829	3.154898207	1.657593	LINC01530	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
POPDC3	8.80513933	27.77931829	3.154898207	1.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDHR4	8.80513933	27.77931829	3.154898207	1.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CFAP418-AS	8.80513933	27.77931829	3.154898207	1.657593	ENSG000002	1.659653067	0	547.0328046	9.095484	ULK4P1	0	0.829826533	893.1261388	9.80272
PARPBP	45.12633907	142.2301096	3.151820258	1.656185	ENSG000002	1.659653067	0	547.0328046	9.095484	GOLGA6GP	0	0.829826533	893.1261388	9.80272
MIGA2	128.7751627	405.578047	3.149505219	1.655125	ENSG000002	1.659653067	0	547.0328046	9.095484	DIS3L-AS1	0	0.829826533	893.1261388	9.80272
NFKBIZ	592.14562	1864.547843	3.148799519	1.654802	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNHIT2	74.84368431	235.5686191	3.147474917	1.654195	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PDE1B	18.71092108	58.89215477	3.147474917	1.654195	ENSG000002	1.659653067	0	547.0328046	9.095484	EIF4BP5	0	0.829826533	893.1261388	9.80272
SLC49A4	654.8822377	2061.225417	3.147474917	1.654195	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
THAP3	47.3276239	148.897146	3.14609384	1.653562	ENSG000002	1.659653067	0	547.0328046	9.095484	GOLGA6L23	0	0.829826533	893.1261388	9.80272
LAMA5	2201.284833	6914.827908	3.141269047	1.651348	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMC3	9.905781747	31.11283648	3.140876437	1.651167	ENSG000002	1.659653067	0	547.0328046	9.095484	MAPK8IP3-A	0	0.829826533	893.1261388	9.80272
CLTCL1	305.9785917	960.05324	3.137648404	1.649684	ENSG000002	1.659653067	0	547.0328046	9.095484	CHEK2P6	0	0.829826533	893.1261388	9.80272
FOXE1	22.01284833	68.89270935	3.129659021	1.646005	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ODAD3	11.00642416	34.44635467	3.129659021	1.646005	ENSG000002	1.659653067	0	547.0328046	9.095484	GNAO1-AS1	0	0.829826533	893.1261388	9.80272
EIF6	160.6937928	502.2500746	3.125510114	1.644092	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC00559	0	0.829826533	893.1261388	9.80272
SIRT4	23.11349074	72.22622754	3.124851557	1.643788	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC01735	0	0.829826533	893.1261388	9.80272
PHPT1	302.6766645	945.6079945	3.12415229	1.643465	ENSG000002	1.659653067	0	547.0328046	9.095484	BBS7-DT	0	0.829826533	893.1261388	9.80272
ATOSB	94.6552478	295.5719466	3.122615528	1.642755	ENSG000002	1.659653067	0	547.0328046	9.095484	DLGAP1-AS	0	0.829826533	893.1261388	9.80272
KCNV1	12.10706658	37.77987287	3.120481136	1.641768	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	12.10706658	37.77987287	3.120481136	1.641768	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKD1	2122.038579	6615.922443	3.117720153	1.640491	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
XXYLT1	100.1584599	312.2395375	3.117455459	1.640369	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DGKZ	341.1991491	1063.392304	3.116632345	1.639988	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02191	0	0.829826533	893.1261388	9.80272
MAPK8IP1	230.034265	716.7064118	3.11565067	1.639533	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NME3	105.661672	328.9071285	3.112832898	1.638228	ENSG000002	1.659653067	0	547.0328046	9.095484	HPR	0	0.829826533	893.1261388	9.80272
SLC12A3	13.207709	41.11339106	3.112832898	1.638228	ENSG000002	1.659653067	0	547.0328046	9.095484	IGHV1OR16-	0	0.829826533	893.1261388	9.80272
RGS16	13.207709	41.11339106	3.112832898	1.638228	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHOJ	93.55460539	291.1272556	3.111843126	1.637769	ENSG000002	1.659653067	0	547.0328046	9.095484	GOLGA8S	0	0.829826533	893.1261388	9.80272

DONSON	95.75589022	297.794292	3.109931842	1.636883	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CD81	1053.314792	3273.514867	3.107821983	1.635904	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CEMIP2	1296.556766	4028.001151	3.106690934	1.635379	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KLC3	14.30835141	44.44690926	3.106361312	1.635226	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RRM2B	318.0856583	987.8325582	3.105555162	1.634851	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02164	0	0.829826533	893.1261388	9.80272	
SESN1	487.5845904	1513.41726	3.103907076	1.634085	ENSG000002	1.659653067	0	547.0328046	9.095484	SMIM36	0	0.829826533	893.1261388	9.80272	
MARCHF6	2780.222744	8624.922741	3.102241632	1.633311	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CPO	15.40899383	47.78042745	3.100814238	1.632647	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NDUFB11	293.8715252	910.050467	3.096763004	1.630761	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CARHSP1	102.3597447	316.6842285	3.093835661	1.629397	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TNFRSF19	154.0899383	476.6931018	3.093603042	1.629288	ENSG000002	1.659653067	0	547.0328046	9.095484	BCAR4	0	0.829826533	893.1261388	9.80272	
CUL7	551.4218506	1705.650143	3.093185627	1.629093	ENSG000002	1.659653067	0	547.0328046	9.095484	GARS1P1	0	0.829826533	893.1261388	9.80272	
CATSPERB	17.61027866	54.44746384	3.091800243	1.628447	ENSG000002	1.659653067	0	547.0328046	9.095484	LINC02861	0	0.829826533	893.1261388	9.80272	
CNTNAP3B	17.61027866	54.44746384	3.091800243	1.628447	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TSNARE1	177.203429	547.8081566	3.09140833	1.628264	ENSG000002	1.659653067	0	547.0328046	9.095484	CORO7	0	0.829826533	893.1261388	9.80272	
B4GALNT3	162.8950776	503.3612473	3.090094892	1.627651	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND4LP24	0	0.829826533	893.1261388	9.80272	
ACP3	15842.64694	48943.8253	3.089371712	1.627313	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KCNK2	56.13276323	173.3429461	3.088088598	1.626714	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LRRC45	75.94432672	234.4574463	3.087227927	1.626312	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TSTD1	139.7815869	431.1350198	3.084347727	1.624965	ENSG000002	1.659653067	0	547.0328046	9.095484	MAPK8IP1P1	0	0.829826533	893.1261388	9.80272	
MAST3	388.526773	1197.844204	3.083041602	1.624354	ENSG000002	1.659653067	0	547.0328046	9.095484	TXNP4	0	0.829826533	893.1261388	9.80272	
TBCD	703.310504	2167.897999	3.082419481	1.624063	ENSG000002	1.659653067	0	547.0328046	9.095484	TMEM231P1	0	0.829826533	893.1261388	9.80272	
PDE10A	364.3126398	1122.284459	3.080553174	1.623189	ENSG000002	1.659653067	0	547.0328046	9.095484	OR1D5	0	0.829826533	893.1261388	9.80272	
CARD10	85.85010847	264.4591101	3.080474967	1.623153	ENSG000002	1.659653067	0	547.0328046	9.095484	ZFP3-DT	0	0.829826533	893.1261388	9.80272	
SLC12A5	22.01284833	67.78153662	3.07918065	1.622547	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ALPL	92.45396297	284.4602192	3.076776918	1.62142	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NUP37	144.1841565	443.3579198	3.074942008	1.620559	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TMEM59	1558.509661	4790.265645	3.073619474	1.619939	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SPRING1	173.9015018	534.4740838	3.07342995	1.61985	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RSAD1	107.8629568	331.129474	3.069909112	1.618196	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
STX10	114.4668113	351.1305831	3.067531795	1.617078	FGD5P1.1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ANKRD16	144.1841565	442.2467471	3.067235387	1.616939	AP1B1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ECHS1	438.0556817	1343.407832	3.066751302	1.616711	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FBN3	89.15203572	273.3484919	3.066093665	1.616402	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PCDH8	29.71734524	91.11616398	3.066093665	1.616402	ENSG000002	1.659653067	0	547.0328046	9.095484	MTND1P8	0	0.829826533	893.1261388	9.80272	
HES4	30.81798766	94.44968217	3.064758258	1.615773	DSTNP2	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SNCA	77.04496914	235.5686191	3.057547062	1.612375	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CD24	416.0428334	1270.070432	3.052739598	1.610105	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR4747	0	0.829826533	893.1261388	9.80272	
TSHZ3	932.2441266	2842.379847	3.048965143	1.60832	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GCDH	224.5310529	684.4824026	3.048497718	1.608098	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GALNT12	232.2355498	707.8170299	3.047840998	1.607788	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL122P	0	0.829826533	893.1261388	9.80272	
MAGEE1	64.93790256	197.7887462	3.045813591	1.606828	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR5582	0	0.829826533	893.1261388	9.80272	
GPR137	154.0899383	468.9148927	3.043124671	1.605553	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR4522	0	0.829826533	893.1261388	9.80272	
MAP1LC3A	79.24625397	241.1244827	3.042724049	1.605363	LGALS17A	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GRN	2500.65957	7608.199692	3.042477186	1.605246	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR3155A	0	0.829826533	893.1261388	9.80272	
PIGS	493.0878025	1495.638497	3.033209276	1.600845	RP9P.1	1.659653067	0	547.0328046	9.095484	MIR378D1	0	0.829826533	893.1261388	9.80272	
CCDC50	563.5289171	1707.872488	3.03067409	1.599639	RHOXF1P1	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PPP2R5B	95.75589022	290.0160829	3.028702279	1.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	MIR4777	0	0.829826533	893.1261388	9.80272	
UNC5C	171.7002169	520.0288383	3.028702279	1.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	RN7SL470P	0	0.829826533	893.1261388	9.80272	
MEIS3	37.42184215	113.3396186	3.028702279	1.5987	SMG1P7.1	1.659653067	0	547.0328046	9.095484	MIR4457	0	0.829826533	893.1261388	9.80272	
DDX12B	19.81156349	60.0033275	3.028702279	1.5987	ENSG000002	1.659653067	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AGAP10P	17.61027866	53.33629111	3.028702279	1.5987	MYH16	0.829826533	0	547.0328046	9.095484	SLC25A51P2	0	0.829826533	893.1261388	9.80272	
UBQLN3	15.40899383	46.66925472	3.028702279	1.5987	MEOX1	0.829826533	0	547.0328046	9.095484	MIR3664	0	0.829826533	893.1261388	9.80272	
ADAMTS18	11.00642416	33.33518194	3.028702279	1.5987	ZPBP	0.829826533	0	547.0328046	9.095484	RN7SL498P	0	0.829826533	893.1261388	9.80272	
ABHD12B	9.905781747	30.00166375	3.028702279	1.5987	MRPS24	0.829826533	0	547.0328046	9.095484	MIR378E	0	0.829826533	893.1261388	9.80272	
SLC22A20P	9.905781747	30.00166375	3.028702279	1.5987	PRKACA	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RPAP3-DT	9.905781747	30.00166375	3.028702279	1.5987	FKBP6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	9.905781747	30.00166375	3.028702279	1.5987	HBQ1	0.829826533	0	547.0328046	9.095484	LINC01543	0	0.829826533	893.1261388	9.80272	
CHRNA10	8.80513933	26.66814555	3.028702279	1.5987	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TRIM42	8.80513933	26.66814555	3.028702279	1.5987	GGTLC2	0.829826533	0	547.0328046	9.095484	MIR4448	0	0.829826533	893.1261388	9.80272	
CASP5	7.704496914	23.33462736	3.028702279	1.5987	ACR	0.829826533	0	547.0328046	9.095484	MIR548Y	0	0.829826533	893.1261388	9.80272	
C1orf105	7.704496914	23.33462736	3.028702279	1.5987	SEL1L2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PEAK3	7.704496914	23.33462736	3.028702279	1.5987	LUZP4	0.829826533	0	547.0328046	9.095484	RN7SL850P	0	0.829826533	893.1261388	9.80272	
PAX2	5.503212081	16.66759097	3.028702279	1.5987	KCND1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ANGPT4	5.503212081	16.66759097	3.028702279	1.5987	ECH1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GCM1	5.503212081	16.66759097	3.028702279	1.5987	CGB3	0.829826533	0	547.0328046	9.095484	ABHD15-AS1	0	0.829826533	893.1261388	9.80272	
DRC1	5.503212081	16.66759097	3.028702279	1.5987	CEACAM4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GPR148	5.503212081	16.66759097	3.028702279	1.5987	TFPT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF623	5.503212081	16.66759097	3.028702279	1.5987	DUS4L	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MAPT	5.503212081	16.66759097	3.028702279	1.5987	FGF8	0.829826533	0	547.0328046	9.095484	MIR3189	0	0.829826533	893.1261388	9.80272	
FSCB	5.503212081	16.66759097	3.028702279	1.5987	CCL8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	5.503212081	16.66759097	3.028702279	1.5987	GNRHR	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ANKRD61	4.402569665	13.33407278	3.028702279	1.5987	APOA4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
JSRP1	4.402569665	13.33407278	3.028702279	1.5987	IL23A	0.829826533	0	547.0328046	9.095484	MIR3134	0	0.829826533	893.1261388	9.80272	
OR2AJ1	4.402569665	13.33407278	3.028702279	1.5987	PRR4	0.829826533	0	547.0328046	9.095484	MIR3122	0	0.829826533	893.1261388	9.80272	
PAX5	4.402569665	13.33407278	3.028702279	1.5987	DUSP16	0.829826533	0	547.0328046	9.095484	NEK4P2	0	0.829826533	893.1261388	9.80272	
OPALIN	4.402569665	13.33407278	3.028702279	1.5987	NR2E1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	4.402569665	13.33407278	3.028702279	1.5987	PCDHB3	0.829826533	0	547.0328046	9.095484	MIR4653	0	0.829826533	893.1261388	9.80272	
XPC-AS1	4.402569665	13.33407278	3.028702279	1.5987	IL4	0.829826533	0	547.0328046	9.095484	MIR4714	0	0.829826533	893.1261388	9.80272	
C19orf81	4.402569665	13.33407278	3.028702279	1.5987	TLX2	0.829826533	0	547.0328046	9.095484	VSTM2B-DT	0	0.829826533	893.1261388	9.80272	
ENSG000002	4.402569665	13.33407278	3.028702279	1.5987	NEU2	0.829826533	0	547.0328046	9.095484	RN7SL405P	0	0.829826533	893.1261388	9.80272	
SNRPA1-DT	4.402569665	13.33407278	3.028702279	1.5987	MEF2D	0.829826533	0	547.0328046	9.095484	SNX19P3	0	0.829826533	893.1261388	9.80272	
YTHDF2P1	4.402569665	13.33407278	3.028702279	1.5987	ZP4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MAP3K4-AS	4.402569665	13.33407278	3.028702279	1.5987	FMO6P	0.829826533	0	547.0328046	9.095484	MIR3173	0	0.829826533	893.1261388	9.80272	
ZNF285DP	4.402569665	13.33407278	3.028702279	1.5987	GHRH	0.829826533	0	547.0328046	9.095484	MIR5194	0	0.829826533	893.1261388	9.80272	
CREB3L3	2.201284833	6.667036389	3.028702279	1.5987	CPN1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TNNT2	2.201284833	6.667036389	3.028702279	1.5987	IFNA6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CALY	2.201284833	6.667036389	3.028702279	1.5987	MAGEB4	0.829826533	0	547.0328046	9.095484	KIAA0895LP	0	0.829826533	893.1261388	9.80272	
KRT71	2.201284833	6.667036389	3.028702279	1.5987	NPPB	0.829826533	0	547.0328046	9.095484	MIR4772	0	0.829826533	893.1261388	9.80272	
SRRM4	2.201284833	6.667036389	3.028702279	1.5987	OPN4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DMRTC2	2.201284833	6.667036389	3.028702279	1.5987	SERPINA7	0.829826533	0	547.0328046	9.095484	PPIAP14	0	0.829826533	893.1261388	9.80272	
IGFBP1	2.201284833	6.667036389	3.028702279	1.5987	PMS2P5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ASGR2	2.201284833	6.667036389	3.028702279	1.5987	CXCL6	0.829826533	0	547.0328046	9.095484	MIR4637	0	0.829826533	893.1261388	9.80272	
PROK2	2.201284833	6.667036389	3.028702279	1.5987	LINC00029	0.829826533	0	547.0328046	9.095484	MIR5009	0	0.829826533	893.1261388	9.80272	
PDCL2	2.201284833	6.667036389	3.028702279	1.5987	CST11	0.829826533	0	547.0328046	9.095484	MIR5191	0	0.829826533	893.1261388	9.80272	
S100P	2.201284833	6.667036389	3.028702279	1.5987	BPIFB9P	0.829826533	0	547.0328046	9.095484	MIR1273C	0	0.829826533	893.1261388	9.80272	
SSX3	2.201284833	6.667036389	3.028702279	1.5987	CSN1S1	0.829826533	0	547.0328046	9.095484	VN1R71P	0	0.829826533	893.1261388	9.80272	
RNASE7	2.201284833	6.667036389	3.028702279	1.5987	GALR3	0.829826533	0	547.0328046	9.095484	RN7SL45P	0	0.829826533	893.1261388	9.80272	
INSM2	2.201284833	6.667036389	3.028702279	1.5987	IGLL1	0.829826533	0	547.0328046	9.095484	RN7SL525P	0	0.829826533	893.1261388	9.80272	
KRT74	2.201284833	6.667036389	3.028702279	1.5987	APOBEC3A	0.829826533	0	547.0328046	9.095484	MIR4265	0	0.829826533	893.1261388	9.80272	
DIRC1	2.201284833	6.667036389	3.028702279	1.5987	ELL3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	

ZG16	2.201284833	6.667036389	3.028702279	1.5987	CD68	0.829826533	0	547.0328046	9.095484	MIR5094	0	0.829826533	893.1261388	9.80272
LCN15	2.201284833	6.667036389	3.028702279	1.5987	KLK8	0.829826533	0	547.0328046	9.095484	RN7SL630P	0	0.829826533	893.1261388	9.80272
DHRS7C	2.201284833	6.667036389	3.028702279	1.5987	FUT5	0.829826533	0	547.0328046	9.095484	MIR4765	0	0.829826533	893.1261388	9.80272
SMTNL2	2.201284833	6.667036389	3.028702279	1.5987	LILRB2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NUTM2B	2.201284833	6.667036389	3.028702279	1.5987	CDX4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C15orf62	2.201284833	6.667036389	3.028702279	1.5987	CLUHP3	0.829826533	0	547.0328046	9.095484	MIR4731	0	0.829826533	893.1261388	9.80272
OPTC	2.201284833	6.667036389	3.028702279	1.5987	FTHL17	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DHFRP1	2.201284833	6.667036389	3.028702279	1.5987	CFHR4	0.829826533	0	547.0328046	9.095484	RN7SL200P	0	0.829826533	893.1261388	9.80272
ENSG000001	2.201284833	6.667036389	3.028702279	1.5987	RAX	0.829826533	0	547.0328046	9.095484	MIR4312	0	0.829826533	893.1261388	9.80272
SEPHS1P6	2.201284833	6.667036389	3.028702279	1.5987	PRH2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GOLGA6B	2.201284833	6.667036389	3.028702279	1.5987	TAAR5	0.829826533	0	547.0328046	9.095484	MIR4472-1	0	0.829826533	893.1261388	9.80272
CALM2P3	2.201284833	6.667036389	3.028702279	1.5987	CNMD	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DEFB131B	2.201284833	6.667036389	3.028702279	1.5987	C7orf25	0.829826533	0	547.0328046	9.095484	CLUHP6	0	0.829826533	893.1261388	9.80272
NTF4	2.201284833	6.667036389	3.028702279	1.5987	CSH1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HNRNPA1P5	2.201284833	6.667036389	3.028702279	1.5987	BLK	0.829826533	0	547.0328046	9.095484	ARGFXP2	0	0.829826533	893.1261388	9.80272
SBK3	2.201284833	6.667036389	3.028702279	1.5987	SMPD4	0.829826533	0	547.0328046	9.095484	MIR4524B	0	0.829826533	893.1261388	9.80272
IGHV4-31	2.201284833	6.667036389	3.028702279	1.5987	FGF5	0.829826533	0	547.0328046	9.095484	MIR5188	0	0.829826533	893.1261388	9.80272
ERP29P1	2.201284833	6.667036389	3.028702279	1.5987	IL21	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R26P1	2.201284833	6.667036389	3.028702279	1.5987	PDE6H	0.829826533	0	547.0328046	9.095484	MIR3128	0	0.829826533	893.1261388	9.80272
RFPL4AP1	2.201284833	6.667036389	3.028702279	1.5987	PDX1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	RNF113B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	FITM1	0.829826533	0	547.0328046	9.095484	MIR4308	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	RDH12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	FAM181A	0.829826533	0	547.0328046	9.095484	KRT18P55	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	HDC	0.829826533	0	547.0328046	9.095484	LINC01892	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	RLBP1	0.829826533	0	547.0328046	9.095484	MIR5697	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	SLC6A3	0.829826533	0	547.0328046	9.095484	MIR4304	0	0.829826533	893.1261388	9.80272
OR52E5	2.201284833	6.667036389	3.028702279	1.5987	PADI3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	PADI1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	ARHGEF19	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	S100A7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	6.667036389	3.028702279	1.5987	IL2RG	0.829826533	0	547.0328046	9.095484	MIR3151	0	0.829826533	893.1261388	9.80272
FAM86EP	2.201284833	6.667036389	3.028702279	1.5987	CPXCR1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PI4KAP1	2.201284833	6.667036389	3.028702279	1.5987	NSDHL	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCL26	1.100642416	3.333518194	3.028702279	1.5987	IFNA16	0.829826533	0	547.0328046	9.095484	RN7SL378P	0	0.829826533	893.1261388	9.80272
ITIH4	1.100642416	3.333518194	3.028702279	1.5987	SURF1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARSF	1.100642416	3.333518194	3.028702279	1.5987	LCN9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CRYBA1	1.100642416	3.333518194	3.028702279	1.5987	HYOU1	0.829826533	0	547.0328046	9.095484	CXADRP3	0	0.829826533	893.1261388	9.80272
GABRA4	1.100642416	3.333518194	3.028702279	1.5987	SCP2D1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOLR3	1.100642416	3.333518194	3.028702279	1.5987	CDC42EP2	0.829826533	0	547.0328046	9.095484	MIR3939	0	0.829826533	893.1261388	9.80272
GNAT1	1.100642416	3.333518194	3.028702279	1.5987	HMGA2	0.829826533	0	547.0328046	9.095484	MIR548X	0	0.829826533	893.1261388	9.80272
MRM2	1.100642416	3.333518194	3.028702279	1.5987	CNTNAP4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGFLR1	1.100642416	3.333518194	3.028702279	1.5987	TMSB4Y	0.829826533	0	547.0328046	9.095484	MIR3174	0	0.829826533	893.1261388	9.80272
TAS2R16	1.100642416	3.333518194	3.028702279	1.5987	OTOA	0.829826533	0	547.0328046	9.095484	RN7SL96P	0	0.829826533	893.1261388	9.80272
PKD1L1-AS1	1.100642416	3.333518194	3.028702279	1.5987	MAGEA8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR32	1.100642416	3.333518194	3.028702279	1.5987	TNFRSF14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR17	1.100642416	3.333518194	3.028702279	1.5987	FAM86C1P	0.829826533	0	547.0328046	9.095484	LINC02079	0	0.829826533	893.1261388	9.80272
ECE2	1.100642416	3.333518194	3.028702279	1.5987	SLC5A11	0.829826533	0	547.0328046	9.095484	SNORA59B	0	0.829826533	893.1261388	9.80272
MCHR2	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNNI1	1.100642416	3.333518194	3.028702279	1.5987	TFF2	0.829826533	0	547.0328046	9.095484	MIR4654	0	0.829826533	893.1261388	9.80272
COQ8A	1.100642416	3.333518194	3.028702279	1.5987	LRRC56	0.829826533	0	547.0328046	9.095484	MIR5190	0	0.829826533	893.1261388	9.80272
RETNLB	1.100642416	3.333518194	3.028702279	1.5987	RNASEK-C1	0.829826533	0	547.0328046	9.095484	RN7SL804P	0	0.829826533	893.1261388	9.80272
GBX1	1.100642416	3.333518194	3.028702279	1.5987	MEIOB	0.829826533	0	547.0328046	9.095484	MIR4661	0	0.829826533	893.1261388	9.80272
CLEC1B	1.100642416	3.333518194	3.028702279	1.5987	KCNT2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MTNR1A	1.100642416	3.333518194	3.028702279	1.5987	LINC01931	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZBTB8OSP2	1.100642416	3.333518194	3.028702279	1.5987	LENEP	0.829826533	0	547.0328046	9.095484	COX6CP3	0	0.829826533	893.1261388	9.80272
FKBP2	1.100642416	3.333518194	3.028702279	1.5987	SYNPR	0.829826533	0	547.0328046	9.095484	LINC01910	0	0.829826533	893.1261388	9.80272
RPL10P2	1.100642416	3.333518194	3.028702279	1.5987	PPBP	0.829826533	0	547.0328046	9.095484	MIR744	0	0.829826533	893.1261388	9.80272
OR52W1	1.100642416	3.333518194	3.028702279	1.5987	CSF2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OLIG3	1.100642416	3.333518194	3.028702279	1.5987	SEPTIN7P5	0.829826533	0	547.0328046	9.095484	MIR4451	0	0.829826533	893.1261388	9.80272
CDKN2AIPN	1.100642416	3.333518194	3.028702279	1.5987	CLDN2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARL14	1.100642416	3.333518194	3.028702279	1.5987	MBL2	0.829826533	0	547.0328046	9.095484	MIR4318	0	0.829826533	893.1261388	9.80272
TIGD5	1.100642416	3.333518194	3.028702279	1.5987	BORCS5	0.829826533	0	547.0328046	9.095484	LINC01443	0	0.829826533	893.1261388	9.80272
LINC02908	1.100642416	3.333518194	3.028702279	1.5987	LRTM2	0.829826533	0	547.0328046	9.095484	RN7SL377P	0	0.829826533	893.1261388	9.80272
OR6T1	1.100642416	3.333518194	3.028702279	1.5987	OR10A5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NOG	1.100642416	3.333518194	3.028702279	1.5987	ATMIN	0.829826533	0	547.0328046	9.095484	MIR4754	0	0.829826533	893.1261388	9.80272
CARMIL3	1.100642416	3.333518194	3.028702279	1.5987	C16orf46	0.829826533	0	547.0328046	9.095484	MIR4274	0	0.829826533	893.1261388	9.80272
LIN28B	1.100642416	3.333518194	3.028702279	1.5987	CLEC3A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPANXN4	1.100642416	3.333518194	3.028702279	1.5987	CPLX4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPATA31D4	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	SLC25A6P4	0	0.829826533	893.1261388	9.80272
UGT2B15	1.100642416	3.333518194	3.028702279	1.5987	ANKRD40C	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLPSL2	1.100642416	3.333518194	3.028702279	1.5987	AQP2	0.829826533	0	547.0328046	9.095484	SOCS3-DT	0	0.829826533	893.1261388	9.80272
C14orf178	1.100642416	3.333518194	3.028702279	1.5987	SLC43A2	0.829826533	0	547.0328046	9.095484	FARSA-AS1	0	0.829826533	893.1261388	9.80272
C1orf68	1.100642416	3.333518194	3.028702279	1.5987	TOX-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
H3C14	1.100642416	3.333518194	3.028702279	1.5987	ZNF355P	0.829826533	0	547.0328046	9.095484	DHX40P1	0	0.829826533	893.1261388	9.80272
TXNDC8	1.100642416	3.333518194	3.028702279	1.5987	VASN	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SNORA70F	1.100642416	3.333518194	3.028702279	1.5987	POLR2J3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	CRYGA	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	TPTE2P5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SETP8	1.100642416	3.333518194	3.028702279	1.5987	SPRY3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EIF1P7	1.100642416	3.333518194	3.028702279	1.5987	TM4SF20	0.829826533	0	547.0328046	9.095484	MIX23P3	0	0.829826533	893.1261388	9.80272
EEF1A1P12	1.100642416	3.333518194	3.028702279	1.5987	KLK7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NFYBP1	1.100642416	3.333518194	3.028702279	1.5987	OR6F1	0.829826533	0	547.0328046	9.095484	HMGB3P27	0	0.829826533	893.1261388	9.80272
PNMA6E	1.100642416	3.333518194	3.028702279	1.5987	CT55	0.829826533	0	547.0328046	9.095484	ZNF222-DT	0	0.829826533	893.1261388	9.80272
RPL21P69	1.100642416	3.333518194	3.028702279	1.5987	ZNF35	0.829826533	0	547.0328046	9.095484	TPMTP1	0	0.829826533	893.1261388	9.80272
RBMXP1	1.100642416	3.333518194	3.028702279	1.5987	GYPA	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL10P1	1.100642416	3.333518194	3.028702279	1.5987	HSPB2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	SLN	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IQCB2P	1.100642416	3.333518194	3.028702279	1.5987	LGALS9B	0.829826533	0	547.0328046	9.095484	KC6	0	0.829826533	893.1261388	9.80272
HNRNPA1P5	1.100642416	3.333518194	3.028702279	1.5987	IRX1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RANP4	1.100642416	3.333518194	3.028702279	1.5987	NDUFA3	0.829826533	0	547.0328046	9.095484	TAF5LP1	0	0.829826533	893.1261388	9.80272
TUBAP9	1.100642416	3.333518194	3.028702279	1.5987	OBP2B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMARCE1P1	1.100642416	3.333518194	3.028702279	1.5987	CLDN20	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TPI1P4	1.100642416	3.333518194	3.028702279	1.5987	SPACA5	0.829826533	0	547.0328046	9.095484	MIR122HG	0	0.829826533	893.1261388	9.80272
SP3P	1.100642416	3.333518194	3.028702279	1.5987	UTF1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	PCDHB1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	PRND	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GAPDHP1	1.100642416	3.333518194	3.028702279	1.5987	LDHAL6B	0.829826533	0	547.0328046	9.095484	UQCRFS1-D	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	HMGN1P35	0.829826533	0	547.0328046	9.095484	ADAD1P2	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	DELEC1	0.829826533	0	547.0328046	9.095484	MIR23AHG	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	RXFP4	0.829826533	0	547.0328046	9.095484	LINC01864	0	0.829826533	893.1261388	9.80272

ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	CCDC63	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SEPHS1P4	1.100642416	3.333518194	3.028702279	1.5987	CST9	0.829826533	0	547.0328046	9.095484	STK25P1	0	0.829826533	893.1261388	9.80272
FAM41C	1.100642416	3.333518194	3.028702279	1.5987	SPATA3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AURKBP1	1.100642416	3.333518194	3.028702279	1.5987	C1orf100	0.829826533	0	547.0328046	9.095484	ZNF24TR	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HNRNPA1P3	1.100642416	3.333518194	3.028702279	1.5987	CRMA	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMD10P3	1.100642416	3.333518194	3.028702279	1.5987	PRM1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR52B3P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HNRNPA1P3	1.100642416	3.333518194	3.028702279	1.5987	KCNE5	0.829826533	0	547.0328046	9.095484	LINC01482	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	HMGB4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SOX9-AS1	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	LDLRAD4-A	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	RDM1P3	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	GJC3	0.829826533	0	547.0328046	9.095484	EDDM13	0	0.829826533	893.1261388	9.80272
MKRN8P	1.100642416	3.333518194	3.028702279	1.5987	CLK2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CREB3L2-AS	1.100642416	3.333518194	3.028702279	1.5987	OR4X1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SRRM1P3	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	UBE2L4	0	0.829826533	893.1261388	9.80272
TARDBPP2	1.100642416	3.333518194	3.028702279	1.5987	OR7A15P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL21P6	1.100642416	3.333518194	3.028702279	1.5987	PRDM16-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ASB14	1.100642416	3.333518194	3.028702279	1.5987	FAM9B	0.829826533	0	547.0328046	9.095484	OR7E16P	0	0.829826533	893.1261388	9.80272
RPL21P71	1.100642416	3.333518194	3.028702279	1.5987	SPACA4	0.829826533	0	547.0328046	9.095484	CBARP-DT	0	0.829826533	893.1261388	9.80272
TFAP2E-AS1	1.100642416	3.333518194	3.028702279	1.5987	DEFB4B	0.829826533	0	547.0328046	9.095484	LINC01987	0	0.829826533	893.1261388	9.80272
ELOCP19	1.100642416	3.333518194	3.028702279	1.5987	CBX3P1	0.829826533	0	547.0328046	9.095484	MAN1A2P1	0	0.829826533	893.1261388	9.80272
PSMC1P7	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LINC01322	1.100642416	3.333518194	3.028702279	1.5987	TEX44	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	DEFB114	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMARCA5-A	1.100642416	3.333518194	3.028702279	1.5987	RPS2P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCTD13-DT	1.100642416	3.333518194	3.028702279	1.5987	GPR150	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INSL3	1.100642416	3.333518194	3.028702279	1.5987	NEUROG2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	UCN3	0.829826533	0	547.0328046	9.095484	GABRQ	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	PPIAP33	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRIM51CP	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	PCGF7P	0	0.829826533	893.1261388	9.80272
C12orf29P3	1.100642416	3.333518194	3.028702279	1.5987	C5orf46	0.829826533	0	547.0328046	9.095484	VN1R91P	0	0.829826533	893.1261388	9.80272
LINC02600	1.100642416	3.333518194	3.028702279	1.5987	LGALS7B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	MTUS2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	RTL3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	LRRC2-AS1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR4K11P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RBPMS-AS1	1.100642416	3.333518194	3.028702279	1.5987	LSMEM2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NPIPA2	1.100642416	3.333518194	3.028702279	1.5987	OR1E1	0.829826533	0	547.0328046	9.095484	ILVBL-AS1	0	0.829826533	893.1261388	9.80272
RDXP1	1.100642416	3.333518194	3.028702279	1.5987	WFDC9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	TMEM277P	0.829826533	0	547.0328046	9.095484	ESPNP	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	KCTD4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF970P	1.100642416	3.333518194	3.028702279	1.5987	DEFB124	0.829826533	0	547.0328046	9.095484	MRPS17P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR6K6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RBM8B	1.100642416	3.333518194	3.028702279	1.5987	ADIPOQ	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAV30	1.100642416	3.333518194	3.028702279	1.5987	MTHFD2P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR8D4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LYPD8	1.100642416	3.333518194	3.028702279	1.5987	MRGPRG	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	ARL6IP4	0.829826533	0	547.0328046	9.095484	TMSB15C	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	PDSS1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TWSG1-DT	1.100642416	3.333518194	3.028702279	1.5987	CCNYL2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DSCAS	1.100642416	3.333518194	3.028702279	1.5987	OR10G7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	NDN	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	GSTA5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	FAM230E	0.829826533	0	547.0328046	9.095484	BNIP3P34	0	0.829826533	893.1261388	9.80272
DMRTC1	1.100642416	3.333518194	3.028702279	1.5987	RPS27AP20	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NOP53-AS1	1.100642416	3.333518194	3.028702279	1.5987	SOX1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	CALHM3	0.829826533	0	547.0328046	9.095484	TDGF1P7	0	0.829826533	893.1261388	9.80272
PPIAP75	1.100642416	3.333518194	3.028702279	1.5987	ZBTB8OSP1	0.829826533	0	547.0328046	9.095484	ZNF888-AS1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	PGPEP1L	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GTF2A1-AS1	1.100642416	3.333518194	3.028702279	1.5987	C15orf32	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	SLC9B1P1	0.829826533	0	547.0328046	9.095484	EXOSC3P2	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	RPL21P132	0.829826533	0	547.0328046	9.095484	MIR1470	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	SH2D1A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IKBKGP1	1.100642416	3.333518194	3.028702279	1.5987	OR4F6	0.829826533	0	547.0328046	9.095484	ZNF628-DT	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	UMODL1-A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	RPL23AP38	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	GAST	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	FAM167A-A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LINC02635	1.100642416	3.333518194	3.028702279	1.5987	TRARG1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	DMRTC1B	0.829826533	0	547.0328046	9.095484	MKNK1-AS1	0	0.829826533	893.1261388	9.80272
EEF1AKMT4	1.100642416	3.333518194	3.028702279	1.5987	DGAT1	0.829826533	0	547.0328046	9.095484	ERBIN-DT	0	0.829826533	893.1261388	9.80272
LINC02835	1.100642416	3.333518194	3.028702279	1.5987	SPDYE16	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR6C76	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	LINC01405	0.829826533	0	547.0328046	9.095484	PHACTR2P1	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	TMEM210	0.829826533	0	547.0328046	9.095484	BNIP3P9	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	TRIM69	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	LINC00839	0.829826533	0	547.0328046	9.095484	MTCO3P22	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	CALHM1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	KRT18P14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	FAM86MP	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	1.100642416	3.333518194	3.028702279	1.5987	OR10T2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C4orf54	23.11349074	70.00388208	3.028702279	1.5987	SERTAD4BI	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TREM1	12.10706658	36.66870014	3.028702279	1.5987	TMPRSS12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GRIN2C	12.10706658	36.66870014	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANK1	31.91863007	96.67202764	3.028702279	1.5987	FOXI2	0.829826533	0	547.0328046	9.095484	COX6CP4	0	0.829826533	893.1261388	9.80272
DNAAF8	6.603854498	20.00110917	3.028702279	1.5987	OR5D3P	0.829826533	0	547.0328046	9.095484	CSTBP1	0	0.829826533	893.1261388	9.80272
RBMXL2	6.603854498	20.00110917	3.028702279	1.5987	FGF3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRR15	6.603854498	20.00110917	3.028702279	1.5987	KRTAP19-2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
QRFPR	6.603854498	20.00110917	3.028702279	1.5987	KRTAP19-4	0.829826533	0	547.0328046	9.095484	PPIAP52	0	0.829826533	893.1261388	9.80272
TBC1D28	6.603854498	20.00110917	3.028702279	1.5987	LCE2A	0.829826533	0	547.0328046	9.095484	DPRXP5	0	0.829826533	893.1261388	9.80272
SMIM10L2B	6.603854498	20.00110917	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADRA2B	6.603854498	20.00110917	3.028702279	1.5987	RPL7P48	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CRYM	3.301927249	10.00055458	3.028702279	1.5987	TPM3P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HOXB8	3.301927249	10.00055458	3.028702279	1.5987	CYP26C1	0.829826533	0	547.0328046	9.095484	DPRXP6	0	0.829826533	893.1261388	9.80272
NFE2	3.301927249	10.00055458	3.028702279	1.5987	FOXD4L3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SULT6B1	3.301927249	10.00055458	3.028702279	1.5987	TSPY13P	0.829826533	0	547.0328046	9.095484	NANOGNBP	0	0.829826533	893.1261388	9.80272
CBY2	3.301927249	10.00055458	3.028702279	1.5987	C5orf52	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABRA	3.301927249	10.00055458	3.028702279	1.5987	OR52B6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VWC2L	3.301927249	10.00055458	3.028702279	1.5987	SSX7	0.829826533	0	547.0328046	9.095484	IGHV3OR16-	0	0.829826533	893.1261388	9.80272

NLRP6	3.301927249	10.00055458	3.028702279	1.5987	KRTAP10-8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLVS1	3.301927249	10.00055458	3.028702279	1.5987	HELT	0.829826533	0	547.0328046	9.095484	PPP1R14BP4	0	0.829826533	893.1261388	9.80272
ENSG000001	3.301927249	10.00055458	3.028702279	1.5987	KCTD9P3	0.829826533	0	547.0328046	9.095484	HNRNPA3P9	0	0.829826533	893.1261388	9.80272
PATE2	3.301927249	10.00055458	3.028702279	1.5987	SNHG28	0.829826533	0	547.0328046	9.095484	MTND4P35	0	0.829826533	893.1261388	9.80272
TRAV8-1	3.301927249	10.00055458	3.028702279	1.5987	FAM230G	0.829826533	0	547.0328046	9.095484	AK3P7	0	0.829826533	893.1261388	9.80272
RPL29P11	3.301927249	10.00055458	3.028702279	1.5987	IGFL1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCTD9P1	3.301927249	10.00055458	3.028702279	1.5987	PDCD1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACKR4P1	3.301927249	10.00055458	3.028702279	1.5987	CLEC20A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GEMIN8P4	3.301927249	10.00055458	3.028702279	1.5987	ZNF177	0.829826533	0	547.0328046	9.095484	CTAGE15	0	0.829826533	893.1261388	9.80272
USP17L1	3.301927249	10.00055458	3.028702279	1.5987	PLET1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPEP3	3.301927249	10.00055458	3.028702279	1.5987	VHLL	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LEF1-AS1	3.301927249	10.00055458	3.028702279	1.5987	LINC00994	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MCIDAS	3.301927249	10.00055458	3.028702279	1.5987	OR6M1	0.829826533	0	547.0328046	9.095484	PATJ-DT	0	0.829826533	893.1261388	9.80272
PRMT5-AS1	3.301927249	10.00055458	3.028702279	1.5987	IFITM3P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARPC1AP3	3.301927249	10.00055458	3.028702279	1.5987	OR10J1	0.829826533	0	547.0328046	9.095484	SREK1IP1P2	0	0.829826533	893.1261388	9.80272
PKD1P6	3.301927249	10.00055458	3.028702279	1.5987	LINC00523	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NASPP1	3.301927249	10.00055458	3.028702279	1.5987	ZKSCAN7	0.829826533	0	547.0328046	9.095484	KRT18P9	0	0.829826533	893.1261388	9.80272
NPIPB8	3.301927249	10.00055458	3.028702279	1.5987	OR4Q2	0.829826533	0	547.0328046	9.095484	HMGB1P50	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	10.00055458	3.028702279	1.5987	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MARCHF6-D	3.301927249	10.00055458	3.028702279	1.5987	OR9K1P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	10.00055458	3.028702279	1.5987	LUADT1	0.829826533	0	547.0328046	9.095484	CTAGE6	0	0.829826533	893.1261388	9.80272
CYP39A1	156.2912231	472.2484109	3.021592649	1.595309	LCE1B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CTBP1	839.7901636	2535.696173	3.019440192	1.594281	H2AC7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMB4	702.2098616	2119.006399	3.01762552	1.593414	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAMSAP3	299.3747372	903.3834307	3.017567344	1.593386	NPSR1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENTPD5	1440.740923	4334.684825	3.008649755	1.589116	GATA3-AS1	0.829826533	0	547.0328046	9.095484	MZT1P2	0	0.829826533	893.1261388	9.80272
INPP5K	182.7066411	548.9193293	3.004375353	1.587065	TMEM132E-	0.829826533	0	547.0328046	9.095484	EI24P6	0	0.829826533	893.1261388	9.80272
NUDT22	90.25267814	271.1261465	3.004078683	1.586923	S100A7L2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DFFB	38.52248457	115.5619641	2.999857495	1.584894	DCHS2	0.829826533	0	547.0328046	9.095484	CKAP2LP1	0	0.829826533	893.1261388	9.80272
SERTAD1	38.52248457	115.5619641	2.999857495	1.584894	OR7E85BP	0.829826533	0	547.0328046	9.095484	SQSTM1P1	0	0.829826533	893.1261388	9.80272
SLC30A4	957.5589022	2871.270338	2.998531298	1.584256	ENSG000001	0.829826533	0	547.0328046	9.095484	NIPA2P3	0	0.829826533	893.1261388	9.80272
GPR157	34.11991491	102.2278913	2.996135588	1.583103	CBX3P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPC3	91.35332055	273.3484919	2.99221189	1.581212	DSCR8	0.829826533	0	547.0328046	9.095484	KRT8P49	0	0.829826533	893.1261388	9.80272
TSEN54	81.44753881	243.3468282	2.98777387	1.579071	KCNRG	0.829826533	0	547.0328046	9.095484	RBISP4	0	0.829826533	893.1261388	9.80272
MAPK8IP3	868.4068665	2594.588328	2.987756578	1.579063	DDX39B	0.829826533	0	547.0328046	9.095484	IGHV3OR16-	0	0.829826533	893.1261388	9.80272
SPTBN5	79.24625397	236.6797918	2.986636969	1.578522	ENSG000001	0.829826533	0	547.0328046	9.095484	H3P42	0	0.829826533	893.1261388	9.80272
PCDHGB4	73.74304189	220.0122008	2.983497767	1.577005	OR2M2	0.829826533	0	547.0328046	9.095484	MTND5P10	0	0.829826533	893.1261388	9.80272
SH3GLB2	1122.655265	3345.741094	2.980203451	1.575411	MIR30E	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IDO1	20.91220591	62.22567296	2.975567151	1.573165	MIR345	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GOT2	259.7516102	772.2650483	2.973090514	1.571963	Y_RNA	0.829826533	0	547.0328046	9.095484	RN7SKP299	0	0.829826533	893.1261388	9.80272
ASPHD2	18.71092108	55.55863657	2.96931596	1.570131	RNU6-50P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDKN2D	18.71092108	55.55863657	2.96931596	1.570131	RNU1-58P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKHD1	461.1691724	1368.964805	2.968465559	1.569717	RNU6-858P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHPF	827.6830971	2456.802909	2.968289334	1.569632	RN7SKP25	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RETREG2	526.107075	1558.975342	2.963228241	1.56717	RNA5SP183	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDX12P	33.01927249	97.78320037	2.961397784	1.566278	RNU4-39P	0.829826533	0	547.0328046	9.095484	RNU6-6P	0	0.829826533	893.1261388	9.80272
LSM10	115.5674537	342.2412013	2.961397784	1.566278	RNA5SP432	0.829826533	0	547.0328046	9.095484	FCHO2-DT	0	0.829826533	893.1261388	9.80272
HYAL1	16.50963624	48.89160018	2.961397784	1.566278	VTRNA3-1P	0.829826533	0	547.0328046	9.095484	RN7SL715P	0	0.829826533	893.1261388	9.80272
B3GALT1	16.50963624	48.89160018	2.961397784	1.566278	Y_RNA.4	0.829826533	0	547.0328046	9.095484	FGF14-AS2	0	0.829826533	893.1261388	9.80272
DMWD	391.8287002	1160.064332	2.960641553	1.56591	Y_RNA.6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RIC8A	271.8586768	804.4890576	2.959217881	1.565216	RNU4-15P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TECPR1	158.4925079	468.9148927	2.95859343	1.564911	RNA5SP226	0.829826533	0	547.0328046	9.095484	PDE7A-DT	0	0.829826533	893.1261388	9.80272
BAD	108.9635992	322.2400921	2.957318723	1.56429	RNU6-37P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENO1	1286.650985	3804.655432	2.957022128	1.564145	RNU6-1272F	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	14.30835141	42.22456379	2.951043246	1.561225	Y_RNA.8	0.829826533	0	547.0328046	9.095484	SNORD114-2	0	0.829826533	893.1261388	9.80272
RASGRF1	70.44111464	207.7893008	2.949829824	1.560632	Y_RNA.9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DIPK2A	124.372593	366.6870014	2.948294254	1.559881	RNU6-227P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TPGS1	27.51606041	81.11560939	2.947936885	1.559706	Y_RNA.11	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TWSG1	355.5075005	1047.835886	2.947436789	1.559461	RNU1-134P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNQ1	108.9635992	321.1289194	2.947121073	1.559306	RNA5SP150	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WSB2	516.2012932	1520.084297	2.944751043	1.558146	RNA5SP358	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TCEA2	152.9892959	450.0249562	2.941545379	1.556574	RNA5SP375	0.829826533	0	547.0328046	9.095484	CUX2P1	0	0.829826533	893.1261388	9.80272
NOSIP	190.411138	560.0310566	2.941167531	1.556389	RNU1-72P	0.829826533	0	547.0328046	9.095484	MIR432	0	0.829826533	893.1261388	9.80272
CTXN1	37.42184215	110.0061004	2.9396228	1.555631	RNU6-490P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDH24	61.63597531	181.1211552	2.93856233	1.55511	RNU6-1120F	0.829826533	0	547.0328046	9.095484	RNU6-88P	0	0.829826533	893.1261388	9.80272
CDK19	642.7751711	1887.882471	2.937080577	1.554383	Y_RNA.13	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HSD11B1L	24.21413316	71.11505481	2.936923422	1.554306	Y_RNA.14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	12.10706658	35.55752741	2.936923422	1.554306	SNORD114-	0.829826533	0	547.0328046	9.095484	JTB-DT	0	0.829826533	893.1261388	9.80272
BTD	751.7387703	2206.789045	2.935579661	1.553645	RNY1P16	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GEMIN7	23.11349074	67.78153662	2.932553	1.552157	Y_RNA.15	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
XKRX	23.11349074	67.78153662	2.932553	1.552157	Y_RNA.17	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FKBP8	674.6938012	1977.887462	2.931533473	1.551656	Y_RNA.19	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NHLRC1	56.13276323	164.4535643	2.92972508	1.550765	RNU6-940P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ROM1	11.00642416	32.22400921	2.927745536	1.54979	RNU6-1255F	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HEPHL1	11.00642416	32.22400921	2.927745536	1.54979	RNU5E-8P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PHC1	800.1670366	2342.352118	2.927328933	1.549585	Y_RNA.24	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AP5B1	172.8008594	505.5835928	2.925816426	1.548839	Y_RNA.25	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MFAP3L	74.84368431	218.9010281	2.92477622	1.548326	RNU6-1214F	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GTPBP6	31.91863007	93.33850944	2.924264269	1.548074	SNORA33	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TEP1	41.82441182	122.2290005	2.922432023	1.547169	SNORD116-	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SNRPB	123.2719506	360.019965	2.92053434	1.546232	RN7SKP93	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM161B	141.9828717	414.4674288	2.919136822	1.545542	RN7SKP103	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
POLRMT	292.7708827	854.4918305	2.918636657	1.545295	RN7SKP180	0.829826533	0	547.0328046	9.095484	ARL2-SNX15	0	0.829826533	893.1261388	9.80272
ERN2	19.81156349	57.78098203	2.91652812	1.544252	RNA5SP234	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	19.81156349	57.78098203	2.91652812	1.544252	Y_RNA.29	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLDN16	9.905781747	28.89049102	2.91652812	1.544252	SNORD115-	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UNC5CL	9.905781747	28.89049102	2.91652812	1.544252	RNU6-324P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP2R2C	148.5867262	433.3573653	2.91652812	1.544252	RNU6-501P	0.829826533	0	547.0328046	9.095484	LINC01990	0	0.829826533	893.1261388	9.80272
NOXA1	97.95717505	285.571392	2.915267736	1.543628	Y_RNA.35	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SHKBP1	201.4175622	586.6992022	2.912850279	1.542432	Y_RNA.36	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDHR3	95.75589022	278.9043556	2.912660046	1.542337	RNA5SP245	0.829826533	0	547.0328046	9.095484	TMEM271	0	0.829826533	893.1261388	9.80272
ASS1	74.84368431	217.7898554	2.90992964	1.540984	RNY1P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VPS28	18.71092108	54.44746384	2.90992964	1.540984	RNU6-353P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TUSC1	46.22698148	134.4519005	2.90851568	1.540283	RNA5SP368	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HEBP1	303.7773069	883.3823215	2.90799313	1.540024	Y_RNA.37	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNPEPL1	329.0920825	955.608549	2.90377253	1.537928	RNU6-115P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GAD2	8.80513933	25.55697282	2.90250635	1.537299	RN7SKP118	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PNLIP	8.80513933	25.55697282	2.90250635	1.537299	RNA5SP69	0.829826533	0	547.0328046	9.095484	PMS2P10	0	0.829826533	893.1261388	9.80272
SPATA31E1	8.80513933	25.55697282	2.90250635	1.537299	RNU6-1251F	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM132E	8.80513933	25.55697282	2.90250635	1.537299	SNORA70.1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TDRD6	94.6552478	274.4596647	2.899571561	1.53584	RNA5SP140	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272

BSDC1	333.4946521	966.7202764	2.898757957	1.535435	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCDHGC4	34.11991491	98.8943731	2.898435514	1.535274	Y_RNA.42	0.829826533	0	547.0328046	9.095484	LINC02970	0	0.829826533	893.1261388	9.80272
MZF1	276.2612465	800.0443666	2.895970306	1.534047	RN7SKP50	0.829826533	0	547.0328046	9.095484	ENPP7P7	0	0.829826533	893.1261388	9.80272
SERF2	1199.700234	3473.525958	2.895328233	1.533727	RNU6-593P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TAF6L	146.3854414	423.3568107	2.892069093	1.532102	RNU4-16P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACKR2	31.91863007	92.22733671	2.889451599	1.530796	RNU6-7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CIAO3	184.9079259	533.3629111	2.884478361	1.52831	RNU6-60P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NUDT17	23.11349074	66.67036389	2.884478361	1.52831	RNA5SP90	0.829826533	0	547.0328046	9.095484	RN7SL733P	0	0.829826533	893.1261388	9.80272
C2orf16	23.11349074	66.67036389	2.884478361	1.52831	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAPPC3	154.0899383	444.4690926	2.884478361	1.52831	Y_RNA.47	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
MRPS28	53.9314784	155.5641824	2.884478361	1.52831	RN7SKP55	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMG1P6	38.52248457	111.1172731	2.884478361	1.52831	Y_RNA.48	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	15.40899383	44.44690926	2.884478361	1.52831	RNA5SP189	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GHRHR	7.704496914	22.22345463	2.884478361	1.52831	RNU5E-4P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLHL30	7.704496914	22.22345463	2.884478361	1.52831	RNA5SP166	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
LYPD6	7.704496914	22.22345463	2.884478361	1.52831	RN7SKP22	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HBD	7.704496914	22.22345463	2.884478361	1.52831	Y_RNA.49	0.829826533	0	547.0328046	9.095484	MIR7702	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	22.22345463	2.884478361	1.52831	RNU6-934P	0.829826533	0	547.0328046	9.095484	FAM74A3	0	0.829826533	893.1261388	9.80272
FPGS	294.9721676	850.0471396	2.881787616	1.526964	RNU6-290P	0.829826533	0	547.0328046	9.095484	ADAMTS7P1	0	0.829826533	893.1261388	9.80272
IKBKB	824.3811698	2374.576127	2.880434699	1.526287	Y_RNA.52	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SEPTIN4	89.15203572	256.680901	2.879136734	1.525636	Y_RNA.53	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPC6	170.5995745	491.1383473	2.878895499	1.525515	Y_RNA.54	0.829826533	0	547.0328046	9.095484	Y_RNA.130	0	0.829826533	893.1261388	9.80272
DYNC2I2	211.3233439	607.8114841	2.876215532	1.524172	RNU6-1283I	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPAG5	143.0835141	411.1339106	2.873384213	1.522751	RNA5SP355	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KHDRBS2	14.30835141	41.11339106	2.873384213	1.522751	SNORA30B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM8B	248.7451861	714.4840663	2.872353341	1.522233	RNY3P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACTG1	234.4368347	673.3706753	2.872290424	1.522202	Y_RNA.59	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
QRICH2	151.8886534	435.5797107	2.867756747	1.519923	RNU6-1051P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
METTL25B	103.4603871	296.6831193	2.867601094	1.519844	RN7SKP249	0.829826533	0	547.0328046	9.095484	MIR7974	0	0.829826533	893.1261388	9.80272
NELFA	234.4368347	672.2595025	2.867550671	1.519819	RNA5SP259	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	130.9764475	375.5763832	2.867510841	1.519799	RNY3P13	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLF11	165.0963624	473.3595836	2.867171491	1.519628	RNA5SP88	0.829826533	0	547.0328046	9.095484	TBC1D3B	0	0.829826533	893.1261388	9.80272
GATA2	1967.94864	5640.312785	2.866087391	1.519083	RNU6-669P	0.829826533	0	547.0328046	9.095484	MIR6078	0	0.829826533	893.1261388	9.80272
SOCS3	114.4668113	327.7959558	2.863676834	1.517869	Y_RNA.64	0.829826533	0	547.0328046	9.095484	MIR6772	0	0.829826533	893.1261388	9.80272
ANAPC2	355.5075005	1017.834222	2.863045704	1.517551	ENSG00000	0.829826533	0	547.0328046	9.095484	MIR7152	0	0.829826533	893.1261388	9.80272
ZNF324	146.3854414	418.9121198	2.861706163	1.516876	TDRKH-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKD2L2	6.603854498	18.88993643	2.860441041	1.516238	FAM78B-AS	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
AMELX	6.603854498	18.88993643	2.860441041	1.516238	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DSG1	6.603854498	18.88993643	2.860441041	1.516238	LINC01562	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAT1A	6.603854498	18.88993643	2.860441041	1.516238	FAM32BP	0.829826533	0	547.0328046	9.095484	RNU11	0	0.829826533	893.1261388	9.80272
CEACAM3	6.603854498	18.88993643	2.860441041	1.516238	HMGB1P39	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FFAR4	6.603854498	18.88993643	2.860441041	1.516238	ENSG00000	0.829826533	0	547.0328046	9.095484	MLLT6	0	0.829826533	893.1261388	9.80272
XKR4	6.603854498	18.88993643	2.860441041	1.516238	LINC00501	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM30A-D	6.603854498	18.88993643	2.860441041	1.516238	LINC00272	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HNRNPA1P8	6.603854498	18.88993643	2.860441041	1.516238	TMEM244	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCDHGB8P	6.603854498	18.88993643	2.860441041	1.516238	HSD3BP4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC187	6.603854498	18.88993643	2.860441041	1.516238	SPATA42	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WDR45BP1	6.603854498	18.88993643	2.860441041	1.516238	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SEMA6B	59.43469048	170.0094279	2.860441041	1.516238	OOEP	0.829826533	0	547.0328046	9.095484	GUSBP19	0	0.829826533	893.1261388	9.80272
LEXM	13.207709	37.77987287	2.860441041	1.516238	KHDC3L	0.829826533	0	547.0328046	9.095484	U1.1	0	0.829826533	893.1261388	9.80272
TMEM198	13.207709	37.77987287	2.860441041	1.516238	C1orf141	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF225	13.207709	37.77987287	2.860441041	1.516238	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ASB13	71.54175706	204.4557826	2.857852407	1.514931	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC01730	0	0.829826533	893.1261388	9.80272
TRIM16	64.93790256	185.5658462	2.857589156	1.514799	LCN8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
APBA3	181.6059987	518.9176656	2.857381746	1.514694	COL5A1-AS	0.829826533	0	547.0328046	9.095484	ELOA3CP	0	0.829826533	893.1261388	9.80272
YPEL1	58.33404806	166.6759097	2.857266301	1.514636	TRPC5OS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SGPP2	57.23340565	163.3423915	2.853969455	1.51297	LRRC37A5P	0.829826533	0	547.0328046	9.095484	MIR6796	0	0.829826533	893.1261388	9.80272
ZNF687	648.2783832	1850.102598	2.853870568	1.51292	NPY4R	0.829826533	0	547.0328046	9.095484	MIR6839	0	0.829826533	893.1261388	9.80272
FHOD1	209.1220591	596.6997568	2.853356357	1.51266	BMS1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RBP7	25.31477557	72.22622754	2.853125335	1.512543	GDF5-AS1	0.829826533	0	547.0328046	9.095484	MIR6724-4	0	0.829826533	893.1261388	9.80272
IFITM1	245.4432588	700.0388208	2.852141159	1.512045	LINC01993	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAPPC12	350.0042884	997.8331128	2.85091682	1.511426	HLA-DRA	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GRB7	74.84368431	213.3451644	2.850543321	1.511237	ENSG00000	0.829826533	0	547.0328046	9.095484	MIR8064	0	0.829826533	893.1261388	9.80272
LRRC4C	49.52890873	141.1189369	2.849223625	1.510569	CASP12	0.829826533	0	547.0328046	9.095484	EIF5P2	0	0.829826533	893.1261388	9.80272
TKFC	110.0642416	313.3507103	2.846980142	1.509432	C6orf47	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM38A	67.13918739	191.1217098	2.846649136	1.509265	LINC02872	0.829826533	0	547.0328046	9.095484	NAXD-AS1	0	0.829826533	893.1261388	9.80272
RGS19	36.32119974	103.339064	2.845144565	1.508502	TRIM64	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GSKIP	48.42826632	137.7854187	2.845144565	1.508502	NFKBIL1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PRSS36	24.21413316	68.89270935	2.845144565	1.508502	CDSN	0.829826533	0	547.0328046	9.095484	MIR7156	0	0.829826533	893.1261388	9.80272
BEST3	12.10706658	34.44635467	2.845144565	1.508502	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FABP4	12.10706658	34.44635467	2.845144565	1.508502	ABCF1	0.829826533	0	547.0328046	9.095484	THBS1-IT1	0	0.829826533	893.1261388	9.80272
CYC1	287.2676707	816.7119576	2.843034706	1.507432	HLA-E	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TXNRD3	208.0214167	591.1438931	2.841745348	1.506777	LINC01257	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABCC11	29.71734524	84.44912759	2.841745348	1.506777	LINC02210	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
SHISA4	112.2655265	318.9065739	2.840645601	1.506219	CBY3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANKRD46	117.7687385	334.4629922	2.839998087	1.50589	LINC01951	0.829826533	0	547.0328046	9.095484	UBE2NL	0	0.829826533	893.1261388	9.80272
VBP1	152.9892959	434.468538	2.839862329	1.505821	LINC01291	0.829826533	0	547.0328046	9.095484	MIR6835	0	0.829826533	893.1261388	9.80272
ZNF408	63.83726015	181.1211552	2.837232594	1.504484	FGF7P5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UBE2S	57.23340565	162.2312188	2.834554697	1.503122	LINC01545	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR137C	28.61670282	81.11560939	2.834554697	1.503122	PRR20B	0.829826533	0	547.0328046	9.095484	MIR6895	0	0.829826533	893.1261388	9.80272
PEF1	116.6680961	330.0183012	2.828693638	1.500136	BLACE	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
FAM166C	16.50963624	46.66925472	2.826788793	1.499164	PCDHA5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRMT112	192.6124229	544.4746384	2.826788793	1.499164	LINC02397	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATP2B3	11.00642416	31.11283648	2.826788793	1.499164	LINC02898	0.829826533	0	547.0328046	9.095484	CSPG4P10	0	0.829826533	893.1261388	9.80272
CYP4Z1	11.00642416	31.11283648	2.826788793	1.499164	LINC02716	0.829826533	0	547.0328046	9.095484	MIR7111	0	0.829826533	893.1261388	9.80272
PNPLA3	5.503212081	15.55641824	2.826788793	1.499164	TTLL10-AS1	0.829826533	0	547.0328046	9.095484	VAMP1-AS1	0	0.829826533	893.1261388	9.80272
GALNT8	5.503212081	15.55641824	2.826788793	1.499164	OR7E36P	0.829826533	0	547.0328046	9.095484	Y_RNA.132	0	0.829826533	893.1261388	9.80272
ALDOB	5.503212081	15.55641824	2.826788793	1.499164	ENSG00000	0.829826533	0	547.0328046	9.095484	MIR8073	0	0.829826533	893.1261388	9.80272
GLRA1	5.503212081	15.55641824	2.826788793	1.499164	MT1A	0.829826533	0	547.0328046	9.095484	LINC02227	0	0.829826533	893.1261388	9.80272
C9orf24	5.503212081	15.55641824	2.826788793	1.499164	ENSG000002	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
ZCCHC18	5.503212081	15.55641824	2.826788793	1.499164	NBPF22P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNASE2	5.503212081	15.55641824	2.826788793	1.499164	MAPRE3-AS	0.829826533	0	547.0328046	9.095484	LINC03079	0	0.829826533	893.1261388	9.80272
SMIM10L2A	5.503212081	15.55641824	2.826788793	1.499164	FLRT2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CNGA2	5.503212081	15.55641824	2.826788793	1.499164	SERF1B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MELTF-AS1	5.503212081	15.55641824	2.826788793	1.499164	ENSG00000	0.829826533	0	547.0328046	9.095484	RN7SL769P	0	0.829826533	893.1261388	9.80272
ENSG000002	5.503212081	15.55641824	2.826788793	1.499164	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	5.503212081	15.55641824	2.826788793	1.499164	SLCO1B7	0.829826533	0	547.0328046	9.095484	TEX28P3	0	0.829826533	893.1261388	9.80272
ATP6V0B	224.5310529	634.4796297	2.825799021	1.498659	DEFB136	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PINK1	472.1755966	1332.296105	2.821611525	1.496519	LHFPL7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMD2	967.4646839	2729.040228	2.820816381	1.496113	SERPINB4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLEKHH3	271.8586768	766.7091847	2.820249085	1.495823	KRTAP27-1	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272

DPH7	191.5117804	540.0299475	2.81982626	1.495606	FAM230H	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHTF18	95.75589022	270.0149737	2.81982626	1.495606	ELOA2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF132	84.74946605	238.9021373	2.818922034	1.495144	LINC02346	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF19A	1532.094243	4316.906062	2.817650468	1.494493	KRBOX1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TIAM2	136.4796596	384.4657651	2.817018786	1.494169	RNU6-945P	0.829826533	0	547.0328046	9.095484	LINC02881	0	0.829826533	893.1261388	9.80272
AATK	41.82441182	117.7843095	2.816161768	1.49373	Y_RNA.70	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MIB2	302.6766645	852.269485	2.815775331	1.493532	RNU1-11P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZDHHC12	140.8822293	396.6886651	2.81574665	1.493518	Y_RNA.71	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHOT2	378.6209912	1065.614649	2.81446268	1.49286	RNU6-26P	0.829826533	0	547.0328046	9.095484	SAGE3P	0	0.829826533	893.1261388	9.80272
SLC35A4	113.3661689	318.9065739	2.813066518	1.492144	Y_RNA.72	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PINLYP	15.40899383	43.33573653	2.812366402	1.491785	RNU6-936P	0.829826533	0	547.0328046	9.095484	LINC01796	0	0.829826533	893.1261388	9.80272
TSPAN4	102.3597447	287.7937374	2.811591004	1.491387	SNORA30	0.829826533	0	547.0328046	9.095484	PNMA8C	0	0.829826533	893.1261388	9.80272
SPTLC3	670.2912315	1884.548953	2.811537529	1.491359	RNU6-203P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BSPRY	178.3040714	501.1389019	2.810585859	1.490871	Y_RNA.76	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FBXO46	304.8779493	856.7141759	2.810023414	1.490582	RNVU1-30	0.829826533	0	547.0328046	9.095484	PGM5P3-AS1	0	0.829826533	893.1261388	9.80272
STRBP	1447.344777	4064.669852	2.808363228	1.48973	RNU6-1029P	0.829826533	0	547.0328046	9.095484	Y_RNA.133	0	0.829826533	893.1261388	9.80272
RDH10	488.6852328	1372.298323	2.808143629	1.489617	RNU6-48P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COX6A1P2	70.44111464	197.7887462	2.807859404	1.489471	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
APH1A	316.9850159	890.0493579	2.807859404	1.489471	RNU1-52P	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
FADS3	205.8201318	577.8098203	2.807353271	1.489211	RNU6-432P	0.829826533	0	547.0328046	9.095484	RBM22P4	0	0.829826533	893.1261388	9.80272
NAA10	55.03212081	154.4530097	2.806597445	1.488822	RNU6-1324P	0.829826533	0	547.0328046	9.095484	PSMB3	0	0.829826533	893.1261388	9.80272
SLC9A7	514.0000084	1442.302205	2.806035373	1.488533	RNU6-1316P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RCAN3	566.8308444	1590.088179	2.805225217	1.488117	Y_RNA.79	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RAP1GDS1	387.4261305	1086.726931	2.804991315	1.487996	RNU6-610P	0.829826533	0	547.0328046	9.095484	NLRP3P1	0	0.829826533	893.1261388	9.80272
TUBB4A	9.905781747	27.77931829	2.804353962	1.487668	RNU6-72P	0.829826533	0	547.0328046	9.095484	MLECP1	0	0.829826533	893.1261388	9.80272
AGXT2	9.905781747	27.77931829	2.804353962	1.487668	RNU1-8P	0.829826533	0	547.0328046	9.095484	DDX6P2	0	0.829826533	893.1261388	9.80272
XPNPEP2	9.905781747	27.77931829	2.804353962	1.487668	RNU6-1113P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AIDAP1	9.905781747	27.77931829	2.804353962	1.487668	Y_RNA.80	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SPINT2	1630.051419	4568.031099	2.802384665	1.486655	RNU6-31P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABHD8	116.6680961	326.684783	2.800120975	1.485489	U3.1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RIPOR2	198.1156349	554.475193	2.798745254	1.48478	RNU6-106P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNIP2	115.5674537	323.3512648	2.79794401	1.484367	RNU6-769P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LLGL2	461.1691724	1290.071541	2.797393274	1.484083	Y_RNA.85	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HEXD	201.4175622	563.3645748	2.796998279	1.483879	RNU6-905P	0.829826533	0	547.0328046	9.095484	NF1P7	0	0.829826533	893.1261388	9.80272
GPR82	14.30835141	40.00221833	2.79572518	1.483223	SNORA15	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC34A3	14.30835141	40.00221833	2.79572518	1.483223	RNU1-67P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLTB	198.1156349	553.3640203	2.793136546	1.481886	SNORA14B	0.829826533	0	547.0328046	9.095484	RNA5-8SN2	0	0.829826533	893.1261388	9.80272
B9D1	122.1713082	341.1300286	2.792227026	1.481416	RNU6-45P	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
GPC2	18.71092108	52.22511838	2.791157002	1.480863	SNORA80D	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
THPO	41.82441182	116.6731368	2.789594204	1.480055	SNORA70E	0.829826533	0	547.0328046	9.095484	MIR7856	0	0.829826533	893.1261388	9.80272
ARHGAP33	190.411138	531.1405656	2.789440634	1.479976	Y_RNA.86	0.829826533	0	547.0328046	9.095484	VWA8-AS1	0	0.829826533	893.1261388	9.80272
PEX6	379.7216336	1058.947613	2.788747122	1.479617	RNU6-125P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNFAIP8L2	23.11349074	64.44801842	2.788329082	1.479401	Y_RNA.87	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RGS12	512.899366	1430.079305	2.788225918	1.479347	SNORA70I	0.829826533	0	547.0328046	9.095484	NPAP1L	0	0.829826533	893.1261388	9.80272
DPH2	110.0642416	306.6836739	2.786406096	1.478406	RNU1-89P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSAT1	91.35332055	254.4585555	2.785433019	1.477902	Y_RNA.89	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NDUFB2	238.8394043	664.4812934	2.782125903	1.476188	RNU6-1263P	0.829826533	0	547.0328046	9.095484	BEND3P3	0	0.829826533	893.1261388	9.80272
SLC44A3	202.5182046	563.3645748	2.781797202	1.476017	RNU6-540P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AAMP	558.0257051	1551.197133	2.779795122	1.474979	Y_RNA.92	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRP10	1034.603871	2875.715029	2.779532446	1.474842	Y_RNA.93	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
RHOC	449.0621058	1247.846977	2.778784852	1.474454	RNU6-1060P	0.829826533	0	547.0328046	9.095484	Metazoa_SRP	0	0.829826533	893.1261388	9.80272
KLF4	208.0214167	577.8098203	2.777645829	1.473863	RNU6-1179P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM37	8.80513933	24.44580009	2.776310422	1.473169	RNU6-987P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FTH1P7	8.80513933	24.44580009	2.776310422	1.473169	RNU6-9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LERFS	8.80513933	24.44580009	2.776310422	1.473169	RNU6-1237P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IL17F	4.402569665	12.22290005	2.776310422	1.473169	RNU6-33P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NT5C1A	4.402569665	12.22290005	2.776310422	1.473169	Y_RNA.99	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KIF25	4.402569665	12.22290005	2.776310422	1.473169	MIR647	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FLRT1	4.402569665	12.22290005	2.776310422	1.473169	MIR661	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP29	4.402569665	12.22290005	2.776310422	1.473169	MIR662	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MYLK3	4.402569665	12.22290005	2.776310422	1.473169	MIR641	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM217A	4.402569665	12.22290005	2.776310422	1.473169	MIR595	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC1A7	4.402569665	12.22290005	2.776310422	1.473169	MIR571	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC2A2	4.402569665	12.22290005	2.776310422	1.473169	MIR489	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TBX20	4.402569665	12.22290005	2.776310422	1.473169	MIR556	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GBA1	4.402569665	12.22290005	2.776310422	1.473169	MIR10B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OTOL1	4.402569665	12.22290005	2.776310422	1.473169	MIR575	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR19	4.402569665	12.22290005	2.776310422	1.473169	MIR617	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOXE3	4.402569665	12.22290005	2.776310422	1.473169	MIR520G	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPL23AP2	4.402569665	12.22290005	2.776310422	1.473169	MIR483	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
R3HDML-AS	4.402569665	12.22290005	2.776310422	1.473169	MIR95	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CNOT7P1	4.402569665	12.22290005	2.776310422	1.473169	MIR640	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IFITM10	4.402569665	12.22290005	2.776310422	1.473169	MIR511	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF5P1	4.402569665	12.22290005	2.776310422	1.473169	MIR567	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	12.22290005	2.776310422	1.473169	MIR136	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NPAS4	13.207709	36.66870014	2.776310422	1.473169	MIR328	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OXTR	13.207709	36.66870014	2.776310422	1.473169	MIR219A2H	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACSM5	13.207709	36.66870014	2.776310422	1.473169	MIR569	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INSYN2A	13.207709	36.66870014	2.776310422	1.473169	MIR620	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NAGS	22.01284833	61.11450023	2.776310422	1.473169	MIR125B1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R26	358.8094277	995.6107674	2.774762006	1.472364	MIR301A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TARBP1	1730.209878	4789.154472	2.767961582	1.468824	MIR644A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNC4	132.07709	365.5758286	2.76789736	1.46879	MIR643	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VWA1	127.6745203	353.3529286	2.767607255	1.468639	MIR591	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC25A21	29.71734524	82.22678213	2.766962576	1.468303	SNORA40B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SQSTM1	92.45396297	255.5697282	2.764291762	1.46691	SNORD83A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIN1	146.3854414	404.4668742	2.76302664	1.466249	RNU6ATAC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIGH	125.4732355	346.6858922	2.76302664	1.466249	MIR190A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C12orf76	20.91220591	57.78098203	2.76302664	1.466249	IGKV6D-41	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NUDT16L1	66.03854498	182.232328	2.759484298	1.464399	IGLV3-1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAMK1G	16.50963624	45.55808199	2.759484298	1.464399	IGLJ3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC35E4	16.50963624	45.55808199	2.759484298	1.464399	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01666	0	0.829826533	893.1261388	9.80272
TRPC3	16.50963624	45.55808199	2.759484298	1.464399	TRGJP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPR146	16.50963624	45.55808199	2.759484298	1.464399	TRBV6-6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GRTP1	106.7623144	294.4607738	2.758096577	1.463673	TRAV10	0.829826533	0	547.0328046	9.095484	LINC00216	0	0.829826533	893.1261388	9.80272
PCDHGA5	122.1713082	336.6853376	2.755846218	1.462495	TRAV8-4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC5A6	134.2783748	370.0205196	2.755622565	1.462378	TRAV9-2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
THOC6	64.93790256	178.8988098	2.754921282	1.462011	TRDV1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATXN7L2	64.93790256	178.8988098	2.754921282	1.462011	TRAV8-7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SYNPO2L	12.10706658	33.33518194	2.753365708	1.461196	TRDJ2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNRD2	68.23982981	187.7881916	2.751885404	1.46042	TRAJ32	0.829826533	0	547.0328046	9.095484	MAPT-IT1	0	0.829826533	893.1261388	9.80272

ACOX3	368.7152095	1014.500704	2.751447941	1.460191	TRAJ30	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SLC9B1	19.81156349	54.44746384	2.748266883	1.458522	TRAJ21	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SLC25A11	193.7130653	532.2517384	2.747629529	1.458187	TRAJ14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MYO1H	27.51606041	75.55974574	2.746023399	1.457344	IGHD	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TMEM94	829.8843819	2277.904099	2.744845124	1.456725	IGHV1-2	0.829826533	0	547.0328046	9.095484	OR5D13	0	0.829826533	893.1261388	9.80272	
BORCS6	78.14561156	214.4563372	2.744317088	1.456447	MIR708	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NOS3	58.33404806	160.0088733	2.742975649	1.455742	TAS2R15P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PEX11B	81.44753881	223.345719	2.742203415	1.455336	U8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FBXL15	23.11349074	63.33684569	2.740254443	1.45431	RNA5SP18	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GRIK4	23.11349074	63.33684569	2.740254443	1.45431	SNORD72	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KCTD15	107.8629568	295.5719466	2.740254443	1.45431	Y_RNA.101	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR2K2	7.704496914	21.1122819	2.740254443	1.45431	RNU6-1275P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SIGLECL1	7.704496914	21.1122819	2.740254443	1.45431	RNU11-6P	0.829826533	0	547.0328046	9.095484	SLC7A2-IT1	0	0.829826533	893.1261388	9.80272	
PLAC9	7.704496914	21.1122819	2.740254443	1.45431	RNA5SP286	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SLC30A10	7.704496914	21.1122819	2.740254443	1.45431	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BMPR1AP1	7.704496914	21.1122819	2.740254443	1.45431	RNU6-530P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NSUN5P2	7.704496914	21.1122819	2.740254443	1.45431	Y_RNA.102	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RERE	8053.40056	22056.77872	2.738815554	1.453552	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CYB561A3	206.9207743	566.698093	2.738720146	1.453502	RNA5SP354	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CLSTN1	3348.15423	9161.619171	2.736319339	1.452237	RNA5SP467	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
STXBP2	68.23982981	186.6770189	2.735602058	1.451858	KRTAP2-1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CTNNBIP1	34.11991491	93.33850944	2.735602058	1.451858	RPS26P6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PEMT	121.0706658	331.129474	2.735009937	1.451546	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PPP4C	268.5567496	734.4851755	2.734934708	1.451506	TPM3P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
H3-5	26.41541799	72.22622754	2.734245113	1.451143	RPL29P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CAPN15	236.6381195	646.7025297	2.732875545	1.45042	RPL31P11	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PDK3	220.1284833	601.1444477	2.730879888	1.449366	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OAF	78.14561156	213.3451644	2.730097829	1.448953	LIN28AP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PIGV	148.5867262	405.578047	2.729571189	1.448674	CRIP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TMEM63B	486.483948	1327.851414	2.729486594	1.44863	NIP7P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MSMO1	219.0278408	597.8109295	2.729383293	1.448575	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MPP3	70.44111464	192.2328825	2.728986949	1.448365	CYCSP19	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FBLN7	72.64239948	197.7887462	2.722772756	1.445077	RPL36P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SSNA1	72.64239948	197.7887462	2.722772756	1.445077	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RPUSD1	97.95717505	266.6814555	2.722429015	1.444894	RPLP1P6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SLC1A2	14.30835141	38.8910456	2.718066148	1.442581	FTH1P3	0.829826533	0	547.0328046	9.095484	ZBTB7C-AS2	0	0.829826533	893.1261388	9.80272	
ITPKC	245.4432588	666.7036389	2.716324914	1.441656	EIF4A1P8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
EME2	113.3661689	307.7948466	2.715050263	1.440979	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MFSD9	84.74946605	230.0127554	2.714031912	1.440438	BOLA3P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SIGLEC8	17.61027866	47.78042745	2.713212458	1.440002	RSU1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
COMMD8	52.83083598	143.3412824	2.713212458	1.440002	OLA1P2	0.829826533	0	547.0328046	9.095484	FRG1KP	0	0.829826533	893.1261388	9.80272	
BSN	171.7002169	465.5813745	2.711594562	1.439141	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SIGLEC1	220.1284833	596.6997568	2.710688539	1.438659	RPL13AP9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
STK36	894.8222845	2424.5789	2.709564728	1.438061	RHOG2P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LIX1L	187.1092108	506.6947655	2.708016155	1.437236	KPNA4P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KCNK3	37.42184215	101.1167186	2.702077523	1.434069	KRT8P37	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ARVCF	187.1092108	505.5835928	2.702077523	1.434069	VDAC1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZFYVE28	128.7751627	347.7970649	2.700808585	1.433391	LTB4R2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ACAD10	389.6274154	1052.280577	2.700735459	1.433352	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01374	0	0.829826533	893.1261388	9.80272	
NDUFA8	135.3790172	365.5758286	2.700387669	1.433167	MEF2B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ASPSCR1	215.7259136	582.2545113	2.699047609	1.43245	ATP5PBP4	0.829826533	0	547.0328046	9.095484	LINC01127	0	0.829826533	893.1261388	9.80272	
RHPN1	224.5310529	605.5891386	2.697128663	1.431424	ARPC3P5	0.829826533	0	547.0328046	9.095484	MIR664A	0	0.829826533	893.1261388	9.80272	
CCDC24	83.64882364	225.5680645	2.696607731	1.431146	LINC02418	0.829826533	0	547.0328046	9.095484	ERC2-IT1	0	0.829826533	893.1261388	9.80272	
ACOT11	93.55460539	252.23621	2.696138891	1.430895	RPL21P17	0.829826533	0	547.0328046	9.095484	LINC01080	0	0.829826533	893.1261388	9.80272	
SLC35E2B	203.618847	548.9193293	2.695817884	1.430723	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01230	0	0.829826533	893.1261388	9.80272	
ZNF668	106.7623144	287.7937374	2.695649107	1.430633	SMCO1	0.829826533	0	547.0328046	9.095484	LINC00602	0	0.829826533	893.1261388	9.80272	
FAM131B	9.905781747	26.66814555	2.692179803	1.428775	SNRPEP9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TRIM46	9.905781747	26.66814555	2.692179803	1.428775	ZNF788P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	9.905781747	26.66814555	2.692179803	1.428775	MINDY4B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MTX1	33.01927249	88.89381852	2.692179803	1.428775	CTAGE11P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GIPR	16.50963624	44.44690926	2.692179803	1.428775	RPSAP53	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CACNA1S	16.50963624	44.44690926	2.692179803	1.428775	PDCL3P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CA8	16.50963624	44.44690926	2.692179803	1.428775	MRPS21P6	0.829826533	0	547.0328046	9.095484	CDC27P3	0	0.829826533	893.1261388	9.80272	
CEP19	29.71734524	80.00443666	2.692179803	1.428775	ABCD1P5	0.829826533	0	547.0328046	9.095484	MTND2P41	0	0.829826533	893.1261388	9.80272	
RSPH14	6.603854498	17.7787637	2.692179803	1.428775	LINC00488	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TNNT1	6.603854498	17.7787637	2.692179803	1.428775	RPS4XP3	0.829826533	0	547.0328046	9.095484	MIR384	0	0.829826533	893.1261388	9.80272	
CYP1A1	6.603854498	17.7787637	2.692179803	1.428775	RPL21P41	0.829826533	0	547.0328046	9.095484	CFAP97D2	0	0.829826533	893.1261388	9.80272	
CLEC3B	6.603854498	17.7787637	2.692179803	1.428775	CPEB1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KRT24	6.603854498	17.7787637	2.692179803	1.428775	RPL6P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TYMSOS	6.603854498	17.7787637	2.692179803	1.428775	RPL9P16	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DNAJB13	6.603854498	17.7787637	2.692179803	1.428775	IQCF5	0.829826533	0	547.0328046	9.095484	U6.1	0	0.829826533	893.1261388	9.80272	
PPM1F-AS1	6.603854498	17.7787637	2.692179803	1.428775	IQCF6	0.829826533	0	547.0328046	9.095484	MIR1244-3	0	0.829826533	893.1261388	9.80272	
FTLP3	6.603854498	17.7787637	2.692179803	1.428775	LINC01913	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RPEL1	6.603854498	17.7787637	2.692179803	1.428775	CDIPTOSP	0.829826533	0	547.0328046	9.095484	CSNKA2IP	0	0.829826533	893.1261388	9.80272	
ENSG000002	6.603854498	17.7787637	2.692179803	1.428775	CYCSP55	0.829826533	0	547.0328046	9.095484	GPR141BP	0	0.829826533	893.1261388	9.80272	
MMP20	3.301927249	8.889381852	2.692179803	1.428775	CDRT15L2	0.829826533	0	547.0328046	9.095484	MIR7153	0	0.829826533	893.1261388	9.80272	
METTL21C	3.301927249	8.889381852	2.692179803	1.428775	LINC00612	0.829826533	0	547.0328046	9.095484	LINC02775	0	0.829826533	893.1261388	9.80272	
TRIM48	3.301927249	8.889381852	2.692179803	1.428775	SEM1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AIRE	3.301927249	8.889381852	2.692179803	1.428775	SRSF9P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FPR2	3.301927249	8.889381852	2.692179803	1.428775	ENSG000002	0.829826533	0	547.0328046	9.095484	MTND5P42	0	0.829826533	893.1261388	9.80272	
OR4C5	3.301927249	8.889381852	2.692179803	1.428775	RPSAP55	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR52N1	3.301927249	8.889381852	2.692179803	1.428775	HSPD1P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SATL1	3.301927249	8.889381852	2.692179803	1.428775	DNAJA1P3	0.829826533	0	547.0328046	9.095484	MIR6759	0	0.829826533	893.1261388	9.80272	
CYP2A13	3.301927249	8.889381852	2.692179803	1.428775	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR5583-2	0	0.829826533	893.1261388	9.80272	
BRINP2	3.301927249	8.889381852	2.692179803	1.428775	NEURL4	0.829826533	0	547.0328046	9.095484	CD200LP	0	0.829826533	893.1261388	9.80272	
EEF1A1P16	3.301927249	8.889381852	2.692179803	1.428775	GLULP6	0.829826533	0	547.0328046	9.095484	MIR522	0	0.829826533	893.1261388	9.80272	
TAF9BP1	3.301927249	8.889381852	2.692179803	1.428775	DUSP8P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RPL32P16	3.301927249	8.889381852	2.692179803	1.428775	EEF1A1P29	0.829826533	0	547.0328046	9.095484	GNG14	0	0.829826533	893.1261388	9.80272	
IGKV1D-27	3.301927249	8.889381852	2.692179803	1.428775	TERF1P4	0.829826533	0	547.0328046	9.095484	TAF11L9	0	0.829826533	893.1261388	9.80272	
DNMBP-AS1	3.301927249	8.889381852	2.692179803	1.428775	TCEA1P3	0.829826533	0	547.0328046	9.095484	MIR5196	0	0.829826533	893.1261388	9.80272	
PPIAP3	3.301927249	8.889381852	2.692179803	1.428775	MUC5AC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	CYP51A1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PPP1R35-AS1	3.301927249	8.889381852	2.692179803	1.428775	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KRTAP5-8	3.301927249	8.889381852	2.692179803	1.428775	EIF5P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR52H2P	3.301927249	8.889381852	2.692179803	1.428775	FAM90A24P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SMAD1-AS1	3.301927249	8.889381852	2.692179803	1.428775	ZNF705G	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	DEFB115	0.829826533	0	547.0328046	9.095484	MIR133A2	0	0.829826533	893.1261388	9.80272	
CCDC90B-AS	3.301927249	8.889381852	2.692179803	1.428775	KRT18P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OVCH1-AS1	3.301927249	8.889381852	2.692179803	1.428775	FMO9P	0.829826533	0	547.0328046	9.095484	SCYGR2	0	0.829826533	893.1261388	9.80272	
PTBP1P	3.301927249	8.889381852	2.692179803	1.428775	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	

ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	RPL23AP17	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	MIR942	0.829826533	0	547.0328046	9.095484	LINC02780	0	0.829826533	893.1261388	9.80272
ENSG000002	3.301927249	8.889381852	2.692179803	1.428775	MIR921	0.829826533	0	547.0328046	9.095484	RPSAP56	0	0.829826533	893.1261388	9.80272
TSSK6	26.41541799	71.11505481	2.692179803	1.428775	RPL13AP15	0.829826533	0	547.0328046	9.095484	LINC02781	0	0.829826533	893.1261388	9.80272
SOX30	13.207709	35.55752741	2.692179803	1.428775	H1-12P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MYO1A	13.207709	35.55752741	2.692179803	1.428775	RPL21P68	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PFN2	854.098515	2297.905209	2.690445151	1.427845	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABHD15	97.95717505	263.3479374	2.688398652	1.426747	HMGA1P7	0.829826533	0	547.0328046	9.095484	SCYGR7	0	0.829826533	893.1261388	9.80272
PCDHGB5	234.4368347	630.0349387	2.68744005	1.426233	VN1R13P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAD	970.7666112	2605.700055	2.684167363	1.424475	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VCP	1621.246279	4351.352416	2.683955221	1.424361	FGF7P4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RANBP3L	543.7173537	1457.858624	2.68128029	1.422922	MTCO2P31	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C8orf34	130.9764475	351.1305831	2.680868123	1.4227	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
N6AMT1	152.9892959	410.0227379	2.680074678	1.422273	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM186	60.5353329	162.2312188	2.679942622	1.422202	TUBB4BP7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNK1	158.4925079	424.4679834	2.678158034	1.421241	RPL21P61	0.829826533	0	547.0328046	9.095484	LINC01488	0	0.829826533	893.1261388	9.80272
ADAMTSL4-	25.31477557	67.78153662	2.677548391	1.420913	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GCLM	115.5674537	308.9060193	2.672949948	1.418433	RSL24D1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM9B	115.5674537	308.9060193	2.672949948	1.418433	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AK8	56.13276323	150.0083187	2.672384364	1.418128	RPS4XP7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SECTM1	68.23982981	182.232328	2.670468676	1.417093	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EIF4A1	34.11991491	91.11616398	2.670468676	1.417093	RPS3AP23	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC38A7	77.04496914	205.5669553	2.668142484	1.415836	GPC1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DHDH	15.40899383	41.11339106	2.668142484	1.415836	H2AZP3	0.829826533	0	547.0328046	9.095484	TBCEL-TEC1	0	0.829826533	893.1261388	9.80272
TMEM50B	15.40899383	41.11339106	2.668142484	1.415836	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGF2	15.40899383	41.11339106	2.668142484	1.415836	HNRNPA1P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZBTB16	825.4818122	2201.233181	2.666604095	1.415004	GAPDHP63	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLF15	208.0214167	554.475193	2.66547167	1.414391	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SHISA6	330.1927249	880.0488033	2.665258005	1.414275	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VSIG4	244.3426164	651.1472206	2.664894197	1.414078	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MYH7B	39.62312699	105.5614095	2.664136264	1.413668	FAM8A6P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TSC2	1923.922944	5124.728637	2.663687054	1.413425	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000001	12.10706658	32.22400921	2.661586851	1.412287	CNN3P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COX20P1	12.10706658	32.22400921	2.661586851	1.412287	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AIFM2	108.9635992	290.0160829	2.661586851	1.412287	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C1QTNF6	72.64239948	193.3440553	2.661586851	1.412287	CELA3B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACER2	57.23340565	152.2306642	2.659821873	1.41133	RPL31P52	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ABCG1	347.8030036	924.4957126	2.658101578	1.410396	ATF1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SERINC5	1139.164901	3026.83452	2.657064415	1.409833	RPL23P8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF628	83.64882364	222.2345463	2.656756385	1.409666	TPT1P8	0.829826533	0	547.0328046	9.095484	FAM90A22	0	0.829826533	893.1261388	9.80272
SLC6A15	20.91220591	55.55863657	2.656756385	1.409666	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MEI1	20.91220591	55.55863657	2.656756385	1.409666	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SIVA1	104.5610295	277.7931829	2.656756385	1.409666	RPL35P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RAB43	71.54175706	190.0105371	2.655938921	1.409222	OR7E104P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAPK10	1018.094235	2702.372083	2.654343763	1.408355	KRT18P50	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NAIF1	38.52248457	102.2278913	2.653720092	1.408016	BTF3P7	0.829826533	0	547.0328046	9.095484	CDC42-AS1	0	0.829826533	893.1261388	9.80272
NDOR1	124.372593	330.0183012	2.653464828	1.407877	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C1orf112	413.8415485	1097.838659	2.652799514	1.407516	LAP3P1	0.829826533	0	547.0328046	9.095484	LINC02849	0	0.829826533	893.1261388	9.80272
EIPR1	202.5182046	536.6964293	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TAF1L	44.02569665	116.6731368	2.650114494	1.406055	TUBB3P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NPC1L1	17.61027866	46.66925472	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C20orf204	17.61027866	46.66925472	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HSD17B2	8.80513933	23.33462736	2.650114494	1.406055	H3P27	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GNLY	8.80513933	23.33462736	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADCY4	8.80513933	23.33462736	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC28B	8.80513933	23.33462736	2.650114494	1.406055	MIR548P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ITIH3	8.80513933	23.33462736	2.650114494	1.406055	RNU6ATAC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ESM1	8.80513933	23.33462736	2.650114494	1.406055	RNU6ATAC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VKORC1	8.80513933	23.33462736	2.650114494	1.406055	SNORD111E	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MROH2B	8.80513933	23.33462736	2.650114494	1.406055	RNU6ATAC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DUSP28	8.80513933	23.33462736	2.650114494	1.406055	MIR1303	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RARA-AS1	8.80513933	23.33462736	2.650114494	1.406055	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	8.80513933	23.33462736	2.650114494	1.406055	MIR1290	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	8.80513933	23.33462736	2.650114494	1.406055	MIR1278	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C3orf52	75.94432672	201.1222644	2.648285567	1.405059	MIR1282	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FRMPD3	130.9764475	346.6858922	2.646933084	1.404322	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHBDF2	203.618847	538.9187747	2.646703793	1.404197	TAS2R40	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SENP3	63.83726015	168.8982552	2.64576291	1.403684	FXYD7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COL6A6	23.11349074	61.11450023	2.644105164	1.40278	OR52B4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KIF7	146.3854414	386.6881105	2.64157492	1.401398	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UNC13B	2268.42402	5990.332195	2.640746237	1.400946	LINC02860	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SH3TC2	28.61670282	75.55974574	2.640407115	1.40076	LINC01118	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC85A	14.30835141	37.77987287	2.640407115	1.40076	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VAMP7	14.30835141	37.77987287	2.640407115	1.40076	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PUSL1	42.92505424	113.3396186	2.640407115	1.40076	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF827	1858.985041	4906.938782	2.639579487	1.400308	RN7SKP110	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
POMGNT1	919.0364176	2424.5789	2.638174999	1.39954	RN7SKP16	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC25A1	269.657392	711.1505481	2.637237358	1.399027	RNA5SP239	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SSPOP	269.657392	711.1505481	2.637237358	1.399027	RNA5SP129	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC8B1	167.2976473	441.1355744	2.636830712	1.398805	RNU6-892P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TTLL10	19.81156349	52.22511838	2.636092724	1.398401	RNU6-1156P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPATCH3	124.372593	327.7959558	2.635596378	1.398129	SNORD19C	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
B4GALT4	236.6381195	623.3679023	2.634266633	1.397401	Y_RNA.104	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RASGRP4	25.31477557	66.67036389	2.633654155	1.397066	RNU2-26P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RAPGEFL1	143.0835141	376.687556	2.632641212	1.396511	RNA5SP296	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FIZ1	78.14561156	205.5669553	2.630563012	1.395372	RNU6-121P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC25A25	200.3169198	526.6958747	2.629312967	1.394686	RNU6-519P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BAX	152.9892959	402.2445288	2.629233153	1.394642	RNU2-42P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ME1	160.6937928	422.2456379	2.627641246	1.393768	RN7SKP38	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PTOV1	659.2848074	1732.318288	2.627571982	1.39373	RNU2-62P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EML3	391.8287002	1028.945949	2.626009654	1.392872	RNU6-920P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GPS1	575.6359837	1511.194915	2.625261376	1.392461	RNU6-564P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMA6P1	16.50963624	43.33573653	2.624875308	1.392249	RNA5SP29	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UQCC4	38.52248457	101.1167186	2.624875308	1.392249	RNU6-1148P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYP4F22	22.01284833	57.78098203	2.624875308	1.392249	RNU6-370P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM218A	22.01284833	57.78098203	2.624875308	1.392249	Y_RNA.110	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC26A8	11.00642416	28.89049102	2.624875308	1.392249	RNA5SP184	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	11.00642416	28.89049102	2.624875308	1.392249	RNU2-72P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADIPOR2	5.503212081	14.44524551	2.624875308	1.392249	RNU6-1199P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF157	5.503212081	14.44524551	2.624875308	1.392249	SNORD71	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

NAT2	5.503212081	14.44524551	2.624875308	1.392249	RNU2-64P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FANCD2OS	5.503212081	14.44524551	2.624875308	1.392249	RN7SKP194	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHEBL1	5.503212081	14.44524551	2.624875308	1.392249	RN7SKP85	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR1L8	5.503212081	14.44524551	2.624875308	1.392249	RNU2-71P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRC3B	5.503212081	14.44524551	2.624875308	1.392249	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SULT1C3	5.503212081	14.44524551	2.624875308	1.392249	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GK2	5.503212081	14.44524551	2.624875308	1.392249	LINC02068	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC22A25	5.503212081	14.44524551	2.624875308	1.392249	CLDN10-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM26-AS	5.503212081	14.44524551	2.624875308	1.392249	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR11H12	5.503212081	14.44524551	2.624875308	1.392249	RPS26P15	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GEMIN7-AS1	5.503212081	14.44524551	2.624875308	1.392249	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADPRHL1	27.51606041	72.22622754	2.624875308	1.392249	VOPP1-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AIG1	285.0663858	747.8192483	2.623316131	1.391392	VPS52	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRPT1	125.4732355	328.9071285	2.621332966	1.390301	CDRT15	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRPV4	122.1713082	320.0177467	2.619418187	1.389246	CSNK1A1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHOH	29.71734524	77.7820912	2.617397031	1.388133	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAP1S	490.8865177	1284.515678	2.616726333	1.387763	SNRPBP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CTU1	24.21413316	63.33684569	2.615697423	1.387196	TRIM60P17	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PTDSS2	48.42826632	126.6736914	2.615697423	1.387196	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
B9D2	37.42184215	97.78320037	2.612998044	1.385706	LINC01312	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACADVL	1659.768764	4331.351307	2.609611291	1.383835	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PEX10	111.164884	290.0160829	2.608882161	1.383432	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LIN7A	26.41541799	68.89270935	2.608049184	1.382971	LINC01946	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TAF1C	274.0599617	714.4840663	2.607035563	1.38241	LINC02601	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NDUFB4	381.9229185	995.6107674	2.606836928	1.3823	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADPRS	68.23982981	177.787637	2.605335294	1.381469	DNAJA1P1	0.829826533	0	547.0328046	9.095484	ZBTB7C-AS1	0	0.829826533	893.1261388	9.80272
CILP2	34.11991491	88.89381852	2.605335294	1.381469	RPL18AP14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FRMD8	117.7687385	306.6836739	2.604117847	1.380795	PSMD4P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MANEAL	201.4175622	524.4735292	2.603911613	1.38068	LINC01983	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKDCC	62.73661773	163.3423915	2.603621257	1.38052	UBE2E1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TSPAN10	28.61670282	74.44857301	2.601577598	1.379387	IL10RB-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BMP3	72.64239948	188.8993643	2.600400946	1.378734	PRR15-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ADRA2C	72.64239948	188.8993643	2.600400946	1.378734	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLCB4	591.0449776	1536.751888	2.600059126	1.378544	LINC01805	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLEC	19567.22088	50873.93234	2.599956972	1.378488	ABCC5-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLA2G6	289.4689555	752.2639392	2.598772424	1.37783	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NCDN	356.6081429	926.718058	2.598701338	1.377791	SEC13P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACOT8	130.9764475	340.0188558	2.596030525	1.376307	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM186A	23.11349074	60.0033275	2.596030525	1.376307	RPL18AP9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM222A	61.63597531	160.0088733	2.596030525	1.376307	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMIM20	30.81798766	80.00443666	2.596030525	1.376307	ROR1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC38A8	7.704496914	20.00110917	2.596030525	1.376307	H2ACP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	20.00110917	2.596030525	1.376307	UBBP3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	7.704496914	20.00110917	2.596030525	1.376307	RPL26P28	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF578	63.83726015	165.564737	2.593543905	1.374925	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMA7	758.3426248	1965.664562	2.592053377	1.374095	ATP5F1CP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCDC162P	33.01927249	85.56030032	2.591223061	1.373633	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HK3	25.31477557	65.55919115	2.589759919	1.372818	HMGN1P4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZSCAN5A	95.75589022	247.7915191	2.587741794	1.371694	LINC02612	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PFKFB1	17.61027866	45.55808199	2.58701653	1.371289	VEZTP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	17.61027866	45.55808199	2.58701653	1.371289	RPL23AP41	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CEBPB	160.6937928	415.5786016	2.586152174	1.370807	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EMD	464.4710997	1201.177723	2.586119402	1.370789	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BTBD3	373.1177791	964.4979309	2.584969103	1.370147	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01622	0	0.829826533	893.1261388	9.80272
TMEM128	55.03212081	142.2301096	2.584492611	1.369881	LINC00570	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCD5	257.5503254	665.5924661	2.584320036	1.369785	LINC01991	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FZR1	355.5075005	917.8286762	2.581742087	1.368345	LINC02636	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SGSM2	1206.304088	3113.505993	2.581029132	1.367946	WARS2-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SWSAP1	19.81156349	51.11394565	2.580005645	1.367374	SOX1-OT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLCNKB	9.905781747	25.55697282	2.580005645	1.367374	LINC01133	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DHX9P1	9.905781747	25.55697282	2.580005645	1.367374	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	9.905781747	25.55697282	2.580005645	1.367374	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BTBD8	309.280519	797.8220212	2.579606449	1.367151	LINC01142	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHOD	73.74304189	190.0105371	2.576657163	1.365501	PINCR	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IMPG2	44.02569665	113.3396186	2.574396937	1.364235	LINC01567	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MRPL28	144.1841565	371.1316923	2.574011606	1.364019	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ECI1	172.8008594	444.4690926	2.572146309	1.362973	RPL21P21	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TACSTD2	2857.267713	7344.851755	2.570585781	1.362097	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
INPP5E	155.1905807	398.9110106	2.570458908	1.362026	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HPS5	24.21413316	62.22567296	2.569807994	1.361661	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANTXRL	12.10706658	31.11283648	2.569807994	1.361661	LINC02052	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	12.10706658	31.11283648	2.569807994	1.361661	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZMYND15	38.52248457	98.8943731	2.567185741	1.360188	RPL7AP40	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF123	375.319064	963.3867582	2.566847386	1.359998	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NOMO1	91.35332055	234.4574463	2.566490686	1.359797	POLR2KP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC4A3	144.1841565	370.0205196	2.566304984	1.359693	LINC00620	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LHPP	162.8950776	417.800947	2.564846975	1.358873	LINC01087	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMG3	14.30835141	36.66870014	2.562748082	1.357692	LINC01754	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNH7	14.30835141	36.66870014	2.562748082	1.357692	CIAO2AP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UGT2B11	14.30835141	36.66870014	2.562748082	1.357692	MIR3659HG	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DCDC2C	14.30835141	36.66870014	2.562748082	1.357692	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SGSM2-AS1	14.30835141	36.66870014	2.562748082	1.357692	TGFA-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAH2	71.54175706	183.3435007	2.562748082	1.357692	TNK2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VPS51	490.8865177	1257.847532	2.562399835	1.357496	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYP3A5	45.12633907	115.5619641	2.560853959	1.356625	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FBXL8	45.12633907	115.5619641	2.560853959	1.356625	RPL17P10	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
REX1BD	75.94432672	194.455228	2.560497096	1.356424	PDIA3P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COPS9	33.01927249	84.44912759	2.557570813	1.354774	MTND6P7	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENO2	150.788011	385.5769378	2.557079539	1.354497	LINC01706	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RTL8C	268.5567496	686.704748	2.557019137	1.354463	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TST	101.2591023	258.9032464	2.556839243	1.354361	NTM-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CUL9	816.6766729	2087.893562	2.556573038	1.354211	RPS27AP6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DBN1	630.6681045	1612.311633	2.556513674	1.354178	VPS26BP1	0.829826533	0	547.0328046	9.095484	LINC02993	0	0.829826533	893.1261388	9.80272
POLD1	119.9700234	306.6836739	2.556335868	1.354077	LINC01752	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CNKSR1	180.5053563	461.1366835	2.55469806	1.353153	VTA1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNH8	37.42184215	95.5608549	2.553611725	1.352539	RPL37P11	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VSIG10L	18.71092108	47.78042745	2.553611725	1.352539	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	83.64882364	213.3451644	2.550486129	1.350772	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLCN5	307.0792341	782.2656029	2.547438954	1.349048	OR7E116P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NEMP2	48.42826632	123.3401732	2.54686328	1.348722	WWC3-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC50A1	170.5995745	434.468538	2.546715249	1.348638	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

VPS8	1681.781612	4275.792671	2.542418492	1.346202	ZBTB45P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM161A	152.9892959	388.910456	2.542076253	1.346007	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LRRC3	36.32119974	92.22733671	2.539215042	1.344383	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SZT2	2314.651001	5873.659058	2.537600293	1.343465	OSTM1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
B4GALT3	327.9914401	832.2683758	2.537469806	1.343391	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CORO6	45.12633907	114.4507913	2.536230363	1.342686	PPIAP8	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF446	90.25267814	228.9015827	2.536230363	1.342686	RPS12P26	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MIF4GD	49.52890873	125.5625187	2.535135981	1.342063	LINC00092	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF442	103.4603871	262.2367646	2.534658645	1.341791	MIR137HG	0.829826533	0	547.0328046	9.095484	CNTNAP3P7	0	0.829826533	893.1261388	9.80272
TVP23B	209.1220591	530.0293929	2.534545591	1.341727	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SSTR1	138.6809445	351.1305831	2.531931006	1.340238	RPL21P107	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IARS1	162.8950776	412.2450834	2.530739967	1.339559	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANKS3	171.7002169	434.468538	2.530390152	1.33936	RPS2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ELP1	990.5781747	2505.694509	2.529527274	1.338868	ARMC8P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDC25B	141.9828717	358.9087923	2.527831618	1.3379	NOLC1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ARAP1	955.3576173	2412.356	2.525081662	1.33633	LINC01770	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAJA3	74.84368431	188.8993643	2.523918566	1.335665	OSTCP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TSSC4	55.03212081	138.8965914	2.523918566	1.335665	LINC00350	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	55.03212081	138.8965914	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EVA1B	37.42184215	94.44968217	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GDA	6.603854498	16.66759097	2.523918566	1.335665	FDPSP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAGE1	6.603854498	16.66759097	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SDR16C5	6.603854498	16.66759097	2.523918566	1.335665	RPL22P4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLF17	6.603854498	16.66759097	2.523918566	1.335665	PCDH8P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IL17D	6.603854498	16.66759097	2.523918566	1.335665	MTND1P34	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RHD	6.603854498	16.66759097	2.523918566	1.335665	LINC01393	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	16.66759097	2.523918566	1.335665	LINC01821	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CTDNEP1P1	6.603854498	16.66759097	2.523918566	1.335665	MTCO3P20	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	16.66759097	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	6.603854498	16.66759097	2.523918566	1.335665	CCT4P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BICDL1	129.8758051	327.7959558	2.523918566	1.335665	EDNRB-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TLCD1	44.02569665	111.1172731	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDHR2	11.00642416	27.77931829	2.523918566	1.335665	LINCMD1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CD24P4	11.00642416	27.77931829	2.523918566	1.335665	MYT1L-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TNFRSF18	11.00642416	27.77931829	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
P2RX2	11.00642416	27.77931829	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COL24A1	136.4796596	344.4635467	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DPM2	68.23982981	172.2317734	2.523918566	1.335665	CCNT2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZIK1	35.22055732	88.89381852	2.523918566	1.335665	NRG3-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC26A9	17.61027866	44.44690926	2.523918566	1.335665	LINC02036	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TMEM269	17.61027866	44.44690926	2.523918566	1.335665	DNAJC19P5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANXA13	8.80513933	22.22345463	2.523918566	1.335665	ACE2-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BHLHE22	8.80513933	22.22345463	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACTG1P14	8.80513933	22.22345463	2.523918566	1.335665	WDR87BP	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMC1P1	8.80513933	22.22345463	2.523918566	1.335665	ANKRD65-A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MYOM2	4.402569665	11.11172731	2.523918566	1.335665	LINC01745	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GALNTL5	4.402569665	11.11172731	2.523918566	1.335665	RIMKLBP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ALDH3A1	4.402569665	11.11172731	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WFDC8	4.402569665	11.11172731	2.523918566	1.335665	SATB2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SSMEM1	4.402569665	11.11172731	2.523918566	1.335665	NRIR	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NTSR2	4.402569665	11.11172731	2.523918566	1.335665	MICALL2-D	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5B12	4.402569665	11.11172731	2.523918566	1.335665	RPL23AP34	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USH1G	4.402569665	11.11172731	2.523918566	1.335665	PRICKLE2-A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C9orf163	4.402569665	11.11172731	2.523918566	1.335665	ZP3P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IGFL2	4.402569665	11.11172731	2.523918566	1.335665	HNRNPA3P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FAM83A-AS	4.402569665	11.11172731	2.523918566	1.335665	SLC39A12-A	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MS4A13	4.402569665	11.11172731	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	PSMC1P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACAA2P1	4.402569665	11.11172731	2.523918566	1.335665	RPL26P9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP17L14P	4.402569665	11.11172731	2.523918566	1.335665	EIF4A1P5	0.829826533	0	547.0328046	9.095484	PTCSC1	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	AP4B1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	ELOCP21	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR2S2	4.402569665	11.11172731	2.523918566	1.335665	CLK3P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	RPS3AP27	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	4.402569665	11.11172731	2.523918566	1.335665	RBISP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DRD4	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYP2D6	2.201284833	5.555863657	2.523918566	1.335665	KRT18P36	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CEACAM8	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RASL11B	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BPIFA3	2.201284833	5.555863657	2.523918566	1.335665	RPS3AP10	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ANKRD36	2.201284833	5.555863657	2.523918566	1.335665	PDCL3P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLTRN	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SNX29P1	2.201284833	5.555863657	2.523918566	1.335665	RPL23AP28	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLRN1	2.201284833	5.555863657	2.523918566	1.335665	TMEM252-D	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GOT1L1	2.201284833	5.555863657	2.523918566	1.335665	TERF1P5	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5A2	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5B3	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FADS6	2.201284833	5.555863657	2.523918566	1.335665	NOTCH2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
METRNL	2.201284833	5.555863657	2.523918566	1.335665	ADAM1B	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RPH3AL	2.201284833	5.555863657	2.523918566	1.335665	LINC01824	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CAV3	2.201284833	5.555863657	2.523918566	1.335665	RPL26P27	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR10J5	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
AKAP14	2.201284833	5.555863657	2.523918566	1.335665	LINC00390	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DPPA3	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DCAF8L2	2.201284833	5.555863657	2.523918566	1.335665	MLXP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5B21	2.201284833	5.555863657	2.523918566	1.335665	NPM1P49	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR10G6	2.201284833	5.555863657	2.523918566	1.335665	OR52M2P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR1F2P	2.201284833	5.555863657	2.523918566	1.335665	LINC00974	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCTD9P4	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIMREGP2	2.201284833	5.555863657	2.523918566	1.335665	MIR217HG	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SUPT20HL1	2.201284833	5.555863657	2.523918566	1.335665	SDCBPP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSME2P2	2.201284833	5.555863657	2.523918566	1.335665	LINC01709	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
USP8P2	2.201284833	5.555863657	2.523918566	1.335665	LINC02554	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CENPCP1	2.201284833	5.555863657	2.523918566	1.335665	VPS25P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	PP12613	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CHMP3-AS1	2.201284833	5.555863657	2.523918566	1.335665	GAPDHP54	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLSCR5	2.201284833	5.555863657	2.523918566	1.335665	TBCAP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	WBP11P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EDRF1-AS1	2.201284833	5.555863657	2.523918566	1.335665	LINC00840	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

KRTAP13-3	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
OR5H5P	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KRT8P31	2.201284833	5.555863657	2.523918566	1.335665	ARHGAP29-	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ALG1L10P	2.201284833	5.555863657	2.523918566	1.335665	ZNF277-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CCND2-AS1	2.201284833	5.555863657	2.523918566	1.335665	THORLNC	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C20orf141	2.201284833	5.555863657	2.523918566	1.335665	RPS29P10	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EIF1P5	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	LINC00454	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
EML2-AS1	2.201284833	5.555863657	2.523918566	1.335665	PPIAP60	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	PRKCZ-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SENP3-EIF4A	2.201284833	5.555863657	2.523918566	1.335665	LINC01203	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000002	2.201284833	5.555863657	2.523918566	1.335665	LINC00658	0.829826533	0	547.0328046	9.095484	ZCCHC14-DT	0	0.829826533	893.1261388	9.80272
ATP11A	812.2741032	2049.002517	2.522550588	1.334883	LINC01247	0.829826533	0	547.0328046	9.095484	5S_rRNA.2	0	0.829826533	893.1261388	9.80272
TRAF2	144.1841565	363.3534832	2.520065255	1.333461	ENSG000002	0.829826533	0	547.0328046	9.095484	C8orf44-SGK	0	0.829826533	893.1261388	9.80272
CACNA1H	852.9978726	2146.785717	2.516753894	1.331564	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
LETM1	308.1798766	775.5985665	2.51670737	1.331537	EPS15-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MCOLN1	140.8822293	354.4641013	2.51603132	1.33115	FOCAD-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MOV10	845.2933757	2126.784608	2.51603132	1.33115	ENSG000002	0.829826533	0	547.0328046	9.095484	F8A2	0	0.829826533	893.1261388	9.80272
ZNF513	314.7837311	791.1549848	2.513328698	1.329599	CRIP1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MAP2K2	663.687377	1667.87027	2.513035998	1.329431	LINC01630	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RNF34	408.3383364	1025.612431	2.511673139	1.328649	DDX11L16	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDIT4	130.9764475	328.9071285	2.511192926	1.328373	THEM7P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PDRG1	79.24625397	198.8999189	2.509896796	1.327628	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ATRAID	500.7922994	1256.736359	2.509496174	1.327398	CNN2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
IRF3	340.0985066	853.3806577	2.509216127	1.327237	CDRT15P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RCE1	70.44111464	176.6764643	2.508144075	1.32662	MIS18A-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
P3H1	384.1242033	963.3867582	2.508008477	1.326542	RPL39P25	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRAF7	477.6788087	1197.844204	2.50763522	1.326327	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SNX11	66.03854498	165.564737	2.507092442	1.326015	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ACAP3	148.5867262	372.242865	2.505222873	1.324939	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRUB2	148.5867262	372.242865	2.505222873	1.324939	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TIMM50	252.0471133	631.1461115	2.504079904	1.324281	LINC01806	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
WDR54	25.31477557	63.33684569	2.501971448	1.323065	KRT8P20	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RITA1	115.5674537	288.9049102	2.499881246	1.32186	AMYP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MED24	642.7751711	1605.644597	2.497987895	1.320766	ACNATP	0.829826533	0	547.0328046	9.095484	PPIAL4C	0	0.829826533	893.1261388	9.80272
CASKIN1	83.64882364	208.9004735	2.497351002	1.320399	PCGEM1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
UCHL1	41.82441182	104.4502368	2.497351002	1.320399	HNRNPA1P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NDUFB6	41.82441182	104.4502368	2.497351002	1.320399	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KLK4	3087.301978	7701.538202	2.494585323	1.3188	STK4-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TIMM13	128.7751627	321.1289194	2.493717831	1.318298	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SDF2	182.7066411	455.5808199	2.493509908	1.318178	LINC01483	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
RBBP8NL	53.9314784	134.4519005	2.49301344	1.317891	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MPST	107.8629568	268.903801	2.49301344	1.317891	SLC2A1-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COX6B1	286.1670282	713.3728936	2.492854952	1.317799	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DHX34	432.5524696	1077.837549	2.491807642	1.317193	CERS6-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BMP7	51.73019357	128.8960368	2.491698329	1.317129	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF837	16.50963624	41.11339106	2.490266318	1.3163	UST-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DRG2	158.4925079	394.4663197	2.488864141	1.315487	ATP5F1AP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PALS2	584.4411231	1454.525105	2.488745313	1.315419	LINC00111	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPIEL.1	30.81798766	76.67091847	2.487862586	1.314907	SNRNP40P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLX4	368.7152095	916.7175034	2.486248139	1.31397	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC1A3	235.5374771	585.5880295	2.486177727	1.313929	NTRAS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
FOXO4	161.7944352	402.2445288	2.486145635	1.313911	RPL7P12	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HDHD3	102.3597447	254.4585555	2.485924093	1.313782	ASH1L-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DNAH8	1338.381178	3325.739985	2.484897456	1.313186	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HS3ST1	195.9143501	486.6936564	2.484216476	1.312791	SNAP25-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SMG1P2	40.7237694	101.1167186	2.482990156	1.312079	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SCAF1	730.8265644	1814.54507	2.482866878	1.312007	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TAFAZZIN	50.62955115	125.5625187	2.48002433	1.310354	EPHA2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
STARD3	224.5310529	556.6975385	2.479378826	1.309979	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ST6GALNAC	111.164884	275.5708374	2.478937839	1.309722	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC16A11	12.10706658	30.00166375	2.478029137	1.309193	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ENSG000001	12.10706658	30.00166375	2.478029137	1.309193	RPL21P87	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VPS9D1	126.5738779	313.3507103	2.475634906	1.307799	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PLCD1	102.3597447	253.3473828	2.475068529	1.307468	IFNA14	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CLDN4	316.9850159	784.4879484	2.474842371	1.307337	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CUEDC2	112.2655265	277.7931829	2.474429966	1.307096	SPTBN1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GARNL3	766.0471217	1893.438334	2.471699561	1.305503	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NETO2	159.5931504	394.4663197	2.471699561	1.305503	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PIAS3	724.2227099	1788.988098	2.470218171	1.304638	MDN1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
C11orf68	155.1905807	383.3545923	2.470218171	1.304638	LINC01649	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
COLEC11	9.905781747	24.44580009	2.467831486	1.303244	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRIM67	9.905781747	24.44580009	2.467831486	1.303244	LINC01494	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
SLC39A12	9.905781747	24.44580009	2.467831486	1.303244	CASP16P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
VMO1	9.905781747	24.44580009	2.467831486	1.303244	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PKD1P3	9.905781747	24.44580009	2.467831486	1.303244	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CADM4	258.6509678	637.8131478	2.465922139	1.302127	NPM1P30	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NUP54	692.3040799	1706.761315	2.465334764	1.301784	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KAT2A	683.4989405	1683.426688	2.462954349	1.30039	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
BABAM1	45.12633907	111.1172731	2.462359576	1.300041	UMLILO	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TRMT1	188.2098532	463.359029	2.461927583	1.299788	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KIAA2013	286.1670282	704.4835117	2.461791339	1.299708	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PPP1R37	309.280519	761.153321	2.461045149	1.299271	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
TBC1D10B	211.3233439	520.0288383	2.460820601	1.299139	GLIS3-AS2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ZNF732	17.61027866	43.33573653	2.460820601	1.299139	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYB5D2	42.92505424	105.5614095	2.459202705	1.298191	AMD1P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
GRAMD2B	179.4047139	441.1355744	2.458885081	1.298004	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DTYMK	68.23982981	167.7870824	2.458785183	1.297946	LINC02585	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CYB561D1	68.23982981	167.7870824	2.458785183	1.297946	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
DDOST	1516.68525	3726.873341	2.457249019	1.297044	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
HOOK2	419.3447606	1030.057122	2.456349092	1.296516	RPS20P25	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PSMD3	737.4304189	1811.211552	2.456111798	1.296376	GAS2L1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CDON	267.4561072	656.7030843	2.455367691	1.295939	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ALDH16A1	89.15203572	218.9010281	2.455367691	1.295939	REL-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
NELL2	477.6788087	1172.287232	2.454132799	1.295213	DHFRP2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
CEMP1	15.40899383	37.77987287	2.451806607	1.293845	LINC01546	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
ASPG	7.704496914	18.88993643	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
MFSD2A	7.704496914	18.88993643	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
PCP2	7.704496914	18.88993643	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272
KCNK18	7.704496914	18.88993643	2.451806607	1.293845	CFTRP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272

MGAT4D	7.704496914	18.88993643	2.451806607	1.293845	MTND4P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TRAJ48	7.704496914	18.88993643	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GNAQP1	7.704496914	18.88993643	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	XNDC1N-ZN	0	0.829826533	893.1261388	9.80272	
TPRA1	92.45396297	226.6792372	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF404	154.0899383	377.7987287	2.451806607	1.293845	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SNAPC4	369.8158519	906.7169489	2.451806607	1.293845	PSMD10P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BCAP31	355.5075005	870.0482487	2.44734147	1.291215	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
H1-10	246.5439013	603.3667932	2.447299609	1.291191	LINC00448	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
USP21	296.07281	724.4846209	2.446981271	1.291003	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NCALD	93.55460539	228.9015827	2.446716351	1.290847	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DLEC1	114.4668113	280.0155283	2.446259533	1.290577	TNKS2-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LRRC24	28.61670282	70.00388208	2.446259533	1.290577	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GCN1	2281.631729	5581.42063	2.446240802	1.290566	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AMDHD2	99.05781747	242.2356555	2.445396655	1.290068	LINC02521	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SPATA20	714.3169282	1746.763534	2.445362086	1.290048	MIR365BHG	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NPC2	2246.411172	5492.526811	2.445022924	1.289848	WEE2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ASTN1	20.91220591	51.11394565	2.444215874	1.289372	PABPC1P11	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CRNDE	110.0642416	268.903801	2.443153172	1.288744	PDE4DIPP1(	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FANCG	89.15203572	217.7898554	2.442903896	1.288597	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SULF2	584.4411231	1426.745787	2.441213889	1.287599	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SNAP47	324.6895128	792.2661575	2.440073135	1.286924	RPL23AP26	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ENSG000002	13.207709	32.22400921	2.439787947	1.286756	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
UNC5D	97.95717505	238.9021373	2.438842659	1.286197	LINC01428	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MXD3	84.74946605	206.678128	2.438695341	1.28611	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FZD7	272.9593192	665.5924661	2.438431001	1.285953	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BMP1	569.0321292	1385.632396	2.435068821	1.283963	PPIAP55	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NOC2L	342.2997915	833.3795486	2.434648134	1.283713	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
UBIAD1	104.5610295	254.4585555	2.433588849	1.283085	PHF10P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
AOX1	281.7644586	685.5935753	2.433215242	1.282864	MTND1P9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FZD2	110.0642416	267.7926283	2.433057497	1.28277	RPL30P13	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KLHDC9	72.64239948	176.6764643	2.432139709	1.282226	SPRR2C	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LMNB2	159.5931504	387.7992833	2.429924357	1.280911	HECW2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ULK1	489.7858753	1190.065995	2.429767896	1.280819	RPS3AP54	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
THOP1	363.2119974	882.2711488	2.429080413	1.28041	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZER1	692.3040799	1681.204343	2.428418944	1.280017	PIK3CA-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ADRA2A	127.6745203	310.0171921	2.428183723	1.279878	ABHD17AP4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ARHGEF1	654.8822377	1590.088179	2.428052079	1.279799	MED4-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
WDR77	119.9700234	291.1272556	2.426666658	1.278976	KCNQ5-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
IPO13	309.280519	750.0415937	2.425117483	1.278055	SRMP3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MRPL14	117.7687385	285.571392	2.424848865	1.277895	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LIFR	1283.349057	3110.172475	2.423481326	1.277081	KCTD9P6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RBM20	22.01284833	53.33629111	2.422961823	1.276772	TTTY10	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CTIF	11.00642416	26.66814555	2.422961823	1.276772	LINC00377	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ARSL	11.00642416	26.66814555	2.422961823	1.276772	ENSG000002	0.829826533	0	547.0328046	9.095484	HERC2P3	0	0.829826533	893.1261388	9.80272	
IHO1	11.00642416	26.66814555	2.422961823	1.276772	EEF1DP6	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MROH2A	11.00642416	26.66814555	2.422961823	1.276772	TUBB8P1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SYN1	5.503212081	13.33407278	2.422961823	1.276772	ENSG000002	0.829826533	0	547.0328046	9.095484	CYP4Z2P	0	0.829826533	893.1261388	9.80272	
PRLHR	5.503212081	13.33407278	2.422961823	1.276772	ACTG1P9	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NXF3	5.503212081	13.33407278	2.422961823	1.276772	LRRC3-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DCD	5.503212081	13.33407278	2.422961823	1.276772	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LPO	5.503212081	13.33407278	2.422961823	1.276772	TAF12-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OR1F1	5.503212081	13.33407278	2.422961823	1.276772	LINC02069	0.829826533	0	547.0328046	9.095484	CYP4F29P	0	0.829826533	893.1261388	9.80272	
GSTA3	5.503212081	13.33407278	2.422961823	1.276772	THEMIS3P	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CHORDC1P4	5.503212081	13.33407278	2.422961823	1.276772	LINC02766	0.829826533	0	547.0328046	9.095484	LPAL2.1	0	0.829826533	893.1261388	9.80272	
ZNF358	234.4368347	567.8092658	2.422013872	1.276207	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PSMD14	312.5824462	756.7086301	2.420828934	1.275501	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MGAT1	648.2783832	1568.975897	2.420219365	1.275138	LINC00404	0.829826533	0	547.0328046	9.095484	PYY2	0	0.829826533	893.1261388	9.80272	
RBKS	47.3276239	114.4507913	2.418266161	1.273973	RABGAP1L-	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CDS1	198.1156349	478.9154472	2.417353115	1.273428	SACS-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MYH4	36.32119974	87.78264578	2.416843233	1.273124	PBX3-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TMEM229B	30.81798766	74.44857301	2.415750627	1.272472	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CRK	50.62955115	122.2290005	2.414182976	1.271535	SUCLA2P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CLSTN3	25.31477557	61.11450023	2.414182976	1.271535	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
GLIPR1L2	25.31477557	61.11450023	2.414182976	1.271535	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SPRED3	25.31477557	61.11450023	2.414182976	1.271535	SKP2P1	0.829826533	0	547.0328046	9.095484	TCP10L3	0	0.829826533	893.1261388	9.80272	
INTS12	498.5910146	1203.400068	2.413601595	1.271188	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PGAP6	586.6424079	1415.63406	2.413112385	1.270895	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KDM5C	1512.28268	3649.09125	2.412969016	1.270809	FTLP16	0.829826533	0	547.0328046	9.095484	YWHAEP7	0	0.829826533	893.1261388	9.80272	
RBM11	19.81156349	47.78042745	2.411744407	1.270077	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ANKDD1B	19.81156349	47.78042745	2.411744407	1.270077	DYNLT3P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RPL7P16	96.85653263	233.3462736	2.409194994	1.268551	KRT18P26	0.829826533	0	547.0328046	9.095484	LRRC37A5P.	0	0.829826533	893.1261388	9.80272	
FBXL19	265.2548223	638.9243206	2.408718963	1.268266	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
NCAPH2	128.7751627	310.0171921	2.407430016	1.267494	ENSG000002	0.829826533	0	547.0328046	9.095484	NMRAL2P	0	0.829826533	893.1261388	9.80272	
NDRG4	14.30835141	34.44635467	2.407430016	1.267494	ENSG000002	0.829826533	0	547.0328046	9.095484	CTSLP2	0	0.829826533	893.1261388	9.80272	
BBS1	14.30835141	34.44635467	2.407430016	1.267494	PGA3	0.829826533	0	547.0328046	9.095484	GLUD1P2	0	0.829826533	893.1261388	9.80272	
SDHAF1	14.30835141	34.44635467	2.407430016	1.267494	OGFR-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
HSD17B14	85.85010847	206.678128	2.407430016	1.267494	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ZNF544	275.1606041	662.2589479	2.406808744	1.267122	ELOCP3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ADAMTS7	66.03854498	158.8977006	2.406135699	1.266718	KIF25-AS1	0.829826533	0	547.0328046	9.095484	FLJ43315	0	0.829826533	893.1261388	9.80272	
KDF1	121.0706658	291.1272556	2.404606052	1.265801	IL9RP1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
DNAH10	46.22698148	111.1172731	2.403731967	1.265276	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ROS1	23.11349074	55.55863657	2.403731967	1.265276	FOSL2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
LDLR	438.0556817	1052.280577	2.40216169	1.264333	MAGEA4-A:	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
MUS81	168.3982897	404.4668742	2.401846687	1.264144	SNAP47-AS	0.829826533	0	547.0328046	9.095484	ABCC13	0	0.829826533	893.1261388	9.80272	
CNN3	2614.025739	6277.01476	2.401282691	1.263805	CT70	0.829826533	0	547.0328046	9.095484	CLEC4OP	0	0.829826533	893.1261388	9.80272	
DVL2	355.5075005	853.3806577	2.400457534	1.263309	IGSF21-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
TP53I3	58.33404806	140.0077642	2.400103693	1.263097	ENSG000002	0.829826533	0	547.0328046	9.095484	AOC4P	0	0.829826533	893.1261388	9.80272	
CD276	602.0514017	1444.524551	2.399337576	1.262636	LINC02028	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RTN4R	17.61027866	42.22456379	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	LSP1P5	0	0.829826533	893.1261388	9.80272	
LHX6	17.61027866	42.22456379	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
SYT14	8.80513933	21.1122819	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
KCNE4	8.80513933	21.1122819	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
OFCC1	8.80513933	21.1122819	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	KRT16P3	0	0.829826533	893.1261388	9.80272	
WDR97	79.24625397	190.0105371	2.397722637	1.261665	LINC01790	0.829826533	0	547.0328046	9.095484	GTF2IRD1P1	0	0.829826533	893.1261388	9.80272	
PLCD3	176.1027866	422.2456379	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ATP5ME	176.1027866	422.2456379	2.397722637	1.261665	RPL21P83	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
RAB32	44.02569665	105.5614095	2.397722637	1.261665	CIBAR1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
ASAH2	44.02569665	105.5614095	2.397722637	1.261665	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
FOXO3	607.5546138	1455.636278	2.395893711	1.260564	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CHCHD6	73.74304189	176.6764643	2.395839116	1.260531	XXYLT1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
PMVK	115.5674537	276.6820101	2.394117039	1.259494	PGAM1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	

TOMM34	145.284799	347.7970649	2.393898518	1.259362	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
BOP1	157.3918655	376.687556	2.393310192	1.259007	ENSG000002	0.829826533	0	547.0328046	9.095484	ADIPINT	0	0.829826533	893.1261388	9.80272	
EDA	29.71734524	71.11505481	2.393048714	1.25885	TOMM20P4	0.829826533	0	547.0328046	9.095484	ENSG000002	0	0.829826533	893.1261388	9.80272	
CPNE1	677.9957284	1621.201015	2.391167005	1.257715	MTCO1P42	0.829826533	0	547.0328046	9.095484	LINC00106	0	0.829826533	893.1261388	9.80272	
FBXO44	83.64882364	200.0110917	2.391080746	1.257663	ENSG000002	0.829826533	0	547.0328046	9.095484	CD99P1	0	0.829826533	893.1261388	9.80272	
FOXO3B	81.44753881	194.455228	2.387490535	1.255495	RPL4P3	0.829826533	0	547.0328046	9.095484	HBB	5.503212081	4915.062557	893.1261388	9.80272	
TSPOAP1	586.6424079	1400.077642	2.386594666	1.254954	ENSG000002	0.829826533	0	547.0328046	9.095484	LHX2	1.100642416	809.9106966	735.8527025	9.523273	
OGN	48.42826632	115.5619641	2.38625028	1.254745	LINC01747	0.829826533	0	547.0328046	9.095484	CBLN2	1.100642416	595.815451	541.3342627	9.080376	
ATP6V0A4	12.10706658	28.89049102	2.38625028	1.254745	RPL23P5	0.829826533	0	547.0328046	9.095484	GRP	1.100642416	512.0029711	465.1855712	8.861663	
ZNF229	172.8008594	412.2450834	2.385665702	1.254392	TFAMP1	0.829826533	0	547.0328046	9.095484	NKX2-1	3.301927249	1516.922903	459.4053075	8.843624	
SEMA5A	160.6937928	383.3545923	2.385621658	1.254365	CTF2P	0.829826533	0	547.0328046	9.095484	ASCL1	5.503212081	2472.883069	449.3526749	8.811704	
TBCB	280.6638162	668.9259843	2.383370944	1.253004	LINC01381	0.829826533	0	547.0328046	9.095484	SFTA3	1.100642416	482.1292159	438.0434633	8.77493	
ENSG000002	55.03212081	131.1183823	2.382579126	1.252524	ENSG000002	0.829826533	0	547.0328046	9.095484	RALYL	6.603854498	2831.368132	428.7447782	8.743975	
TSNAXIP1	27.51606041	65.55919115	2.382579126	1.252524	HMGB1P49	0.829826533	0	547.0328046	9.095484	DLL3	3.301927249	1375.022566	416.4303033	8.701931	
SHANK1	27.51606041	65.55919115	2.382579126	1.252524	LIMD1-AS1	0.829826533	0	547.0328046	9.095484	HBA2	4.402569665	1759.232251	399.5921438	8.642384	
H4C1	27.51606041	65.55919115	2.382579126	1.252524	ENSG000002	0.829826533	0	547.0328046	9.095484	NPTX1	5.503212081	2114.398007	384.211616	8.585757	
ENSG000002	30.81798766	73.33740027	2.379694648	1.250776	CALM1P2	0.829826533	0	547.0328046	9.095484	C1QL1	8.80513933	3225.535735	366.324213	8.516977	
ZNF804B	15.40899383	36.66870014	2.379694648	1.250776	APPAT	0.829826533	0	547.0328046	9.095484	PHACTR3	2.201284833	793.3141659	360.3868769	8.493403	
MARS2	77.04496914	183.3435007	2.379694648	1.250776	HMGB1P27	0.829826533	0	547.0328046	9.095484	CPLX2	1.100642416	391.6781237	355.8631922	8.475179	
COPE	333.4946521	793.3773302	2.378980668	1.250344	HM13-AS1	0.829826533	0	547.0328046	9.095484	DGKK	5.503212081	1812.341149	329.3242423	8.363365	
AKR7A2	266.3554647	633.3684569	2.377906748	1.249692	ENSG000002	0.829826533	0	547.0328046	9.095484	INSM1	4.402569665	1441.408688	327.4016763	8.354918	
MFSD11	242.1413316	575.5874749	2.377072395	1.249186	LINC01818	0.829826533	0	547.0328046	9.095484	HBA1	7.704496914	2220.615803	288.2233361	8.171043	
MDK	1633.353346	3882.437524	2.376973442	1.249126	RGPD4-AS1	0.829826533	0	547.0328046	9.095484	BTBD17	3.301927249	916.1284928	277.4526583	8.116098	
LAMP2	2917.803046	6934.829017	2.376729652	1.248978	GRPEL2P3	0.829826533	0	547.0328046	9.095484	PNMA2	2.201284833	521.9608895	237.1164702	7.889452	
LRP11	52.83083598	125.5625187	2.376689983	1.248954	FN1-DT	0.829826533	0	547.0328046	9.095484	MAGEA10	2.201284833	448.106328	203.5658091	7.669351	
HHIPL2	37.42184215	88.89381852	2.375452768	1.248203	ENSG000002	0.829826533	0	547.0328046	9.095484	C1orf127	1.100642416	221.5636844	201.3039668	7.653232	
TMEM141	18.71092108	44.44690926	2.375452768	1.248203	ENSG000002	0.829826533	0	547.0328046	9.095484	FSTL5	7.704496914	1509.454464	195.9186279	7.614111	
C8orf82	140.8822293	334.4629922	2.374060901	1.247357	ENSG000002	0.829826533	0	547.0328046	9.095484	SHISA2	7.704496914	1498.666719	194.5184398	7.603763	
LRRC47	313.6830886	744.4857301	2.373369037	1.246936	ZNF341-AS1	0.829826533	0	547.0328046	9.095484	BARX1	2.201284833	427.3606647	194.1414661	7.600964	
POLB	396.2312699	940.0521308	2.372483452	1.246398	ENSG000002	0.829826533	0	547.0328046	9.095484	SFTPB	2.201284833	410.764134	186.6019917	7.543821	
SMYD3	417.1434758	988.943731	2.370752004	1.245345	RPL31P2	0.829826533	0	547.0328046	9.095484	MAL	1.100642416	203.3075007	184.7171231	7.529174	
HTT	2652.548223	6288.126487	2.370598367	1.245251	RPL10P11	0.829826533	0	547.0328046	9.095484	DDC	8.80513933	1594.926597	181.1358727	7.500928	
INSR	1894.205598	4490.249008	2.370518286	1.245203	ENSG000002	0.829826533	0	547.0328046	9.095484	SEZ6	4.402569665	795.8036455	180.758899	7.497923	
KIF21A	1483.665977	3516.861695	2.370386427	1.245122	HMGB1P25	0.829826533	0	547.0328046	9.095484	NRG1-IT1	1.100642416	195.8390619	177.9315961	7.475179	
NUP62CL	25.31477557	60.0033275	2.37028874	1.245063	LINC00692	0.829826533	0	547.0328046	9.095484	KCND2	1.100642416	194.1794088	176.4237012	7.462901	
SYNM-AS2	25.31477557	60.0033275	2.37028874	1.245063	MTCO1P53	0.829826533	0	547.0328046	9.095484	APLP1	6.603854498	1127.734259	170.7690954	7.415903	
PLD2	385.2248457	912.2728125	2.368156734	1.243765	ENSG000002	0.829826533	0	547.0328046	9.095484	SYT4	3.301927249	559.3030835	169.3868584	7.404178	
ERICH2	35.22055732	83.33795486	2.366173655	1.242556	LINC00326	0.829826533	0	547.0328046	9.095484	NNAT	4.402569665	741.0350943	168.3187662	7.395052	
SUSD4	179.4047139	424.4679834	2.365980103	1.242438	LINC01911	0.829826533	0	547.0328046	9.095484	TEX47	1.100642416	175.9232251	159.8368575	7.320456	
KDM8	41.82441182	98.8943731	2.364513183	1.241543	ENSG000002	0.829826533	0	547.0328046	9.095484	PAX5	4.402569665	695.394635	157.9519889	7.303342	
STOX1	128.7751627	304.4613284	2.364286109	1.241405	RPL6P6	0.829826533	0	547.0328046	9.095484	ATP2B2	2.201284833	334.4200929	151.9204094	7.247172	
CTSA	1230.518221	2909.050211	2.36408544	1.241282	ENSG000002	0.829826533	0	547.0328046	9.095484	DRD2	7.704496914	1165.076453	151.2203153	7.240508	
TPRG1L	232.2355498	548.9193293	2.363631794	1.241005	LINC02655	0.829826533	0	547.0328046	9.095484	CRABP1	11.00642416	1653.844281	150.261725	7.231334	
ZNF764	51.73019357	122.2290005	2.362817381	1.240508	TSSK1A	0.829826533	0	547.0328046	9.095484	LINC01608	1.100642416	164.3056536	149.2815933	7.221892	
ANKH	934.4454114	2207.900217	2.36279208	1.240493	ENSG000002	0.829826533	0	547.0328046	9.095484	TNNT1	6.603854498	973.3865236	147.3967247	7.203561	
NTNG2	55.03212081	130.0072096	2.362387777	1.240246	LINC01436	0.829826533	0	547.0328046	9.095484	PCSK1	6.603854498	958.449646	145.1348824	7.18125	
DNHD1	347.8030036	821.1566485	2.360982051	1.239387	ENSG000002	0.829826533	0	547.0328046	9.095484	TRIM9	18.71092108	2690.297621	143.782212	7.167741	
SMYD5	84.74946605	200.0110917	2.36002775	1.238804	LNCAROD	0.829826533	0	547.0328046	9.095484	GRIN3A	22.01284833	3128.446031	142.1190927	7.150957	
SLC25A33	97.95717505	231.1239281	2.359438479	1.238444	ENSG000002	0.829826533	0	547.0328046	9.095484	SMC2-DT	1.100642416	150.1986025	136.4644868	7.092382	
GPR52	121.0706658	285.571392	2.358716623	1.238002	ENSG000002	0.829826533	0	547.0328046	9.095484	SNHG27	1.100642416	146.0494699	132.6947496	7.051967	
MED12L	351.1049308	827.8236849	2.357767187	1.237421	LINC01098	0.829826533	0	547.0328046	9.095484	FSD1	1.100642416	141.0705107	128.171065	7.001927	
EEF2KMT	49.52890873	116.6731368	2.355657328	1.23613	LINC01720	0.829826533	0	547.0328046	9.095484	CNTNAP5	6.603854498	844.763411	127.9197492	6.999095	
SPTA1	36.32119974	85.56030032	2.355657328	1.23613	KRT8P10	0.829826533	0	547.0328046	9.095484	HAPLN1	20.91220591	2673.701091	127.8536134	6.998349	
PCDHGA8	36.32119974	85.56030032	2.355657328	1.23613	HNRNPA1P:	0.829826533	0	547.0328046	9.095484	TAGLN3	2.201284833	281.3111948	127.7940913	6.997677	
NLRP12	6.603854498	15.55641824	2.355657328	1.23613	GS1-600G8.3	0.829826533	0	547.0328046	9.095484	CXCL13	8.80513933	1036.45334	117.7100442	6.879094	
LY6E	6.603854498	15.55641824	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CACNA1A	45.12633907	4858.634353	107.6673724	6.750437	
DCST1	6.603854498	15.55641824	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC187	6.603854498	709.501686	107.4375104	6.747354	
OR4D6	6.603854498	15.55641824	2.355657328	1.23613	LINC01640	0.829826533	0	547.0328046	9.095484	KCNH7	14.30835141	1499.496546	104.7986943	6.711477	
OR1A2	6.603854498	15.55641824	2.355657328	1.23613	HMGN2P10	0.829826533	0	547.0328046	9.095484	SLC6A5	2.201284833	228.2022967	103.6677732	6.695824	
RPRM	6.603854498	15.55641824	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	GRIK3	27.51606041	2840.496224	103.2304836	6.689725	
SLC25A41	6.603854498	15.55641824	2.355657328	1.23613	TBL1XR1-A	0.829826533	0	547.0328046	9.095484	CEL	46.22698148	4709.265577	101.8726602	6.670623	
MARCHF11	6.603854498	15.55641824	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000001	2.201284833	222.3935109	101.0289571	6.658625	
GZMM	6.603854498	15.55641824	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CALML3	12.10706658	1215.695871	100.412091	6.649789	
ZGLP1	6.603854498	15.55641824	2.355657328	1.23613	LINC01160	0.829826533	0	547.0328046	9.095484	PRLHR	5.503212081	510.343318	92.73553526	6.53505	
AKR1B15	6.603854498	15.55641824	2.355657328	1.23613	NAP1L5P1	0.829826533	0	547.0328046	9.095484	PSMC2P2	1.100642416	102.0686636	92.73553526	6.53505	
DND1	6.603854498	15.55641824	2.355657328	1.23613	ARL4AP4	0.829826533	0	547.0328046	9.095484	KIF19	12.10706658	1121.925473	92.66699458	6.533984	
SLC6A2	3.301927249	7.77820912	2.355657328	1.23613	RPL36AP8	0.829826533	0	547.0328046	9.095484	GFY	2.201284833	200.8180211	91.22764038	6.511399	
MYL2	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CACNA1E	17.61027866	1570.031801	89.15428491	6.478232	
FGF1	3.301927249	7.77820912	2.355657328	1.23613	HSP90AA3P	0.829826533	0	547.0328046	9.095484	INA	4.402569665	391.6781237	88.96579805	6.475179	
TSPAN16	3.301927249	7.77820912	2.355657328	1.23613	WASIR2	0.829826533	0	547.0328046	9.095484	KCNB2	15.40899383	1370.043607	88.91194466	6.474305	
DHH	3.301927249	7.77820912	2.355657328	1.23613	TIMM8AP1	0.829826533	0	547.0328046	9.095484	PCSK2	11.00642416	978.3654828	88.89040331	6.473956	
SLC30A2	3.301927249	7.77820912	2.355657328	1.23613	LINC01305	0.829826533	0	547.0328046	9.095484	SH3GL2	3.301927249	292.0989397	88.46316643	6.467005	
AGAP5	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	WDR72	12.10706658	1069.646402	88.34893197	6.465141	
ACSM6	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CCNA1	1.100642416	96.25987787	87.45790317	6.450517	
ZNF705A	3.301927249	7.77820912	2.355657328	1.23613	JKAMPP1	0.829826533	0	547.0328046	9.095484	CFAP77	3.301927249	286.290154	86.70395573	6.438026	
ENSG000002	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	ST8SIA3	5.503212081	453.9151138	82.48185006	6.366005	
ENSG000002	3.301927249	7.77820912	2.355657328	1.23613	LINC02782	0.829826533	0	547.0328046	9.095484	HABP2	2.201284833	180.0723577	81.80329736	6.354087	
ZNF735	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC7A14	8.80513933	719.4596044	81.70905393	6.352424	
THBS2-AS1	3.301927249	7.77820912	2.355657328	1.23613	RPS6P2	0.829826533	0	547.0328046	9.095484	ENTPD8	1.100642416	89.6212656	81.42632364	6.347423	
CACTIN-AS1	3.301927249	7.77820912	2.355657328	1.23613	RSL24D1P11	0.829826533	0	547.0328046	9.095484	RN7SKP106	1.100642416	89.6212656	81.42632364	6.347423	
CTXN2	3.301927249	7.77820912	2.355657328	1.23613	OR55B1P	0.829826533	0	547.0328046	9.095484	BEX1	22.01284833	1759.232251	79.91842876	6.320456	
ERVW-1	3.301927249	7.77820912	2.355657328	1.23613	ATP5MKP1	0.829826533	0	547.0328046	9.095484	ELAVL3	6.603854498	524.4503691	79.41579713	6.311354	
DPH6-DT	3.301927249	7.77820912	2.355657328	1.23613	MRM3P1	0.829826533	0	547.0328046	9.095484	RNA5SP202	3.301927249	259.7357049	78.66184969	6.297592	
ENSG000002	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	ELAVL2	7.704496914	599.9645836	77.87199999	6.283033	
MADCAM1-:	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	SOX11	5.503212081	418.2325728	75.99790207	6.247888	
PCCA-DT	3.301927249	7.77820912	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	SCN3A	73.74304189	5600.499274	75.94613851	6.246905	
ENSG000002	3.301927249	7.77820912	2.355657328	1.23613	DLG3-AS1	0.829826533	0	547.0328046	9.095484	SFRP5	4.402569665	331.9306133	75.39474411	6.236392	
UGT1A3	3.301927249	7.77820912	2.355657328	1.23613	LINC01307	0.829826533	0	547.0328046	9.095484	GABRD	2.201284833	165.9653067	75.39474411	6.236392	
PARL	23.11349074	54.44746384	2.355657328	1.23613	LINC00574	0.829826533	0	547.0328046	9.095484	CHGA	1.100642416	82.1528268	74.64079667	6.221892	
EVX1	16.50963624	38.8910456	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	CRB2	4.402569665	323.632348	73.50987551	6.199866	
HTR1D	16.50963624	38.8910456	2.355657328	1.23613	VN1R110P	0.829826533	0	547.0328046	9.095484	S100A8	3.301927249	238.9900416	72.37895435	6.177498	
TSHR	19.81156349	46.66925472	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	GINS3	1.100642416	79.6633472	72.37895435	6.177498	
TRPC7	9.905781747	23.33462736	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	78.83352067	71.62500691	6.162391	
SLC22A13	9.905781747	23.33462736	2.355657328	1.23613	LINC01354	0.829826533	0	547.0328046	9.095484	UGT8	11.00642416	783.3562475	71.17263844	6.153251	
METTL15P1	9.905781747	23.33462736	2.355657328	1.23613	KRT17P3	0.829826533	0	547.0328046	9.095484	CCNE2	49.52890873	3488.590746	70.43544539	6.13823	
SLC35D3	9.905781747	23.33462736	2.355657328	1.23613	MTND5P15	0.829826533	0	547.0328046	9.095484	FLRT1	4.402569665	308.6954704	70.11711203	6.131695	
FAM78B	9.905781747	23.33462736	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	TBXT	2.201284833	154.3477352	70.11711203	6.131695	
PRAMEF14	9.905781747	23.33462736	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM72B	3.301927249	230.6917763	69.86579621	6.126514	
ENSG000002	9.905781747	23.33462736	2.355657328	1.23613	COX7BP6	0.829826533	0	547.0328046	9.095484	IP6K3	4.402569665	302.0568581	68.60921714	6.10033	
PET100	26.41541799	62.22567296	2.355657328	1.23613	MTND2P24	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	224.8829905	68.10658552	6.089722	
FBXW10B	26.41541799	62.22567296	2.355657328	1.23613	ENSG000002	0.829826533	0	547.0328046	9.095484	IGF2	15.40899383	1027.325248	66.67049515	6.058977	

TTLL9	13.207709	31.11283648	2.355657328	1.23613	ENSG00000	0.829826533	0	547.0328046	9.095484	ULBP2	3.301927249	217.4145517	65.84474319	6.040996
IL34	13.207709	31.11283648	2.355657328	1.23613	CT69	0.829826533	0	547.0328046	9.095484	IGFBPL1	6.603854498	429.0203178	64.96513784	6.021594
HEXIM2	13.207709	31.11283648	2.355657328	1.23613	ENSG00000	0.829826533	0	547.0328046	9.095484	MTCH2	4.402569665	280.4813683	63.70855878	5.993415
STPG3-AS1	13.207709	31.11283648	2.355657328	1.23613	ENSG00000	0.829826533	0	547.0328046	9.095484	ATP2B3	11.00642416	672.159492	61.06974273	5.932386
TUBGCP2	1001.584599	2359.019709	2.355287523	1.235903	ENSG00000	0.829826533	0	547.0328046	9.095484	CAMK2N2	3.301927249	197.4987149	59.81316366	5.902391
CD151	258.6509678	608.9226568	2.354225317	1.235252	ENSG00000	0.829826533	0	547.0328046	9.095484	DRC1	5.503212081	328.6113072	59.71263734	5.899964
SPTBN4	129.8758051	305.5725011	2.352805443	1.234382	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC01833	1.100642416	65.55629614	59.56184785	5.896317
ALG14	113.3661689	266.6814555	2.352390119	1.234127	ENSG00000	0.829826533	0	547.0328046	9.095484	PBK	8.80513933	517.8117568	58.80790041	5.877938
EMC1	994.9807443	2339.0186	2.350817956	1.233163	RPL32P28	0.829826533	0	547.0328046	9.095484	DPF1	5.503212081	317.8235623	57.75237399	5.851808
MAP3K10	145.284799	341.1300286	2.34800909	1.231438	ENSG00000	0.829826533	0	547.0328046	9.095484	UNC79	1.100642416	63.06681654	57.30000553	5.840463
SCAMP4	294.9721676	692.2606117	2.346867562	1.230736	ENSG00000	0.829826533	0	547.0328046	9.095484	SLC30A2	3.301927249	185.8811435	56.29474227	5.814928
PIH1D1	210.2227015	493.3606928	2.346847839	1.230724	MCTS1	0.829826533	0	547.0328046	9.095484	GPRIN1	36.32119974	2041.373272	56.2033547	5.812584
FBXO6	34.11991491	80.00443666	2.344801764	1.229466	TERF1P7	0.829826533	0	547.0328046	9.095484	GLRA3	5.503212081	307.0358173	55.79211064	5.801989
PPFIA4	34.11991491	80.00443666	2.344801764	1.229466	TMEM114	0.829826533	0	547.0328046	9.095484	CENPA	4.402569665	239.8198681	54.47270262	5.767462
DHX37	225.6316953	528.9182202	2.344166317	1.229075	ACTR3P2	0.829826533	0	547.0328046	9.095484	C4orf54	23.11349074	1240.590667	53.67387736	5.746148
CLDND1	191.5117804	448.9137835	2.344053105	1.229005	ENSG00000	0.829826533	0	547.0328046	9.095484	KLK12	9.905781747	528.5995018	53.36272444	5.73776
UBR5	7543.803121	17676.53581	2.343186259	1.228472	ENSG00000	0.829826533	0	547.0328046	9.095484	UHRF1	44.02569665	2323.514293	52.77632088	5.721819
HSPA13	391.8287002	917.8286762	2.342423298	1.228002	ENSG00000	0.829826533	0	547.0328046	9.095484	SCIN	92.45396297	4825.441292	52.19290917	5.705782
TREM2	27.51606041	64.44801842	2.342196429	1.227862	LINC03002	0.829826533	0	547.0328046	9.095484	ZNF367	18.71092108	964.2584318	51.53452509	5.687467
TOGARAM2	24.21413316	56.6698093	2.340360852	1.226731	ENSG00000	0.829826533	0	547.0328046	9.095484	PCBP3	7.704496914	396.6570829	51.48383955	5.686048
UROD	238.8394043	558.9198839	2.34014938	1.226601	RPL4P2	0.829826533	0	547.0328046	9.095484	MEIOC	25.31477557	1302.827657	51.46510794	5.685523
GINM1	558.0257051	1304.516787	2.337736013	1.225112	ENSG00000	0.829826533	0	547.0328046	9.095484	TGIF2LX	4.402569665	226.5426436	51.45691286	5.685293
GRAMD1A	409.4389789	956.7197218	2.336660091	1.224448	ENSG00000	0.829826533	0	547.0328046	9.095484	OPRD1	4.402569665	221.5636844	50.3259917	5.653232
CD163	2018.578191	4715.817072	2.336207283	1.224168	SEMA3B-AS	0.829826533	0	547.0328046	9.095484	ADD2	5.503212081	275.5024091	50.06211009	5.645647
HK2	151.8886534	354.4641013	2.33371021	1.222625	ENSG00000	0.829826533	0	547.0328046	9.095484	CABP7	4.402569665	219.9040313	49.94901797	5.642384
PAICS	499.691657	1165.620195	2.332678921	1.221988	RPS3AP25	0.829826533	0	547.0328046	9.095484	CDK1	45.12633907	2230.573722	49.4295298	5.627301
ZGPAT	31.91863007	74.44857301	2.332448881	1.221845	ENSG00000	0.829826533	0	547.0328046	9.095484	SSC4D	2.201284833	107.0476228	48.62960995	5.603763
PLEKHM2	657.0835225	1532.307197	2.33198238	1.221557	RPL5P6	0.829826533	0	547.0328046	9.095484	RNF183	2.201284833	107.0476228	48.62960995	5.603763
KIF26A	46.22698148	107.7837549	2.331620008	1.221333	RAD17P1	0.829826533	0	547.0328046	9.095484	HPCAL4	2.201284833	106.2177963	48.25263623	5.592536
RALGAPA2	4176.93797	9734.9843	2.330650915	1.220733	LINC00112	0.829826533	0	547.0328046	9.095484	CALML3-AS	1.100642416	53.10889814	48.25263623	5.592536
SSR4	446.860821	1041.168849	2.329962262	1.220307	EPB41L1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	53.10889814	48.25263623	5.592536
GJA5	28.61670282	66.67036389	2.329770984	1.220188	ENSG00000	0.829826533	0	547.0328046	9.095484	CRLF1	24.21413316	1158.437841	47.84139217	5.580187
CHRNE	14.30835141	33.33518194	2.329770984	1.220188	ENSG00000	0.829826533	0	547.0328046	9.095484	CHST1	45.12633907	2146.761242	47.57224464	5.572048
SOD1	2293.738796	5340.296147	2.328205878	1.219219	ENSG00000	0.829826533	0	547.0328046	9.095484	NEUROD1	5.503212081	260.5655315	47.3478993	5.565229
CNNM3	345.6017187	804.4890576	2.32779241	1.218962	ENSG00000	0.829826533	0	547.0328046	9.095484	CLSPN	121.0706658	5717.504815	47.22452609	5.561464
EPN1	662.5867346	1542.307751	2.327706956	1.218909	FAM131C2P	0.829826533	0	547.0328046	9.095484	KIF15	1.100642416	51.44924507	46.74474135	5.546732
HIP1R	356.6081429	830.0460304	2.327613788	1.218852	ENSG00000	0.829826533	0	547.0328046	9.095484	ERFE	1.100642416	51.44924507	46.74474135	5.546732
PTRH1	64.93790256	151.1194915	2.327138474	1.218557	ST3GAL5-A	0.829826533	0	547.0328046	9.095484	CRTAC1	6.603854498	307.8656439	46.61908344	5.542849
NOTCH3	1719.203454	4000.221833	2.326787922	1.21834	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC02870	2.201284833	102.0686636	46.36776763	5.53505
E2F1	25.31477557	58.89215477	2.326394504	1.218096	KCND3-IT1	0.829826533	0	547.0328046	9.095484	PROX1	67.13918739	3091.103837	46.04023309	5.524823
RSPH4A	25.31477557	58.89215477	2.326394504	1.218096	MRTFA-AS1	0.829826533	0	547.0328046	9.095484	NEUROG3	2.201284833	101.2388371	45.99079391	5.523273
IL17RC	61.63597531	143.3412824	2.325610678	1.21761	FAM136BP	0.829826533	0	547.0328046	9.095484	SLCO6A1	2.201284833	101.2388371	45.99079391	5.523273
HRH1	61.63597531	143.3412824	2.325610678	1.21761	ENSG00000	0.829826533	0	547.0328046	9.095484	NGB	1.100642416	50.61941854	45.99079391	5.523273
NEFH	450.1627483	1046.724713	2.325213974	1.217363	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	49.789592	45.23684647	5.499426
COQ8B	156.2912231	363.3534832	2.324848932	1.217137	LINC01628	0.829826533	0	547.0328046	9.095484	NPTX2	13.207709	596.6452775	45.17401751	5.497421
COA3	141.9828717	330.0183012	2.324352912	1.216829	ENSG00000	0.829826533	0	547.0328046	9.095484	ST18	31.91863007	1428.96129	44.76887909	5.484424
NOX3	11.00642416	25.55697282	2.32200508	1.215371	AP1B1P2	0.829826533	0	547.0328046	9.095484	DGKB	24.21413316	1067.156922	44.07165497	5.461779
RNF126	169.4989321	393.3551469	2.320693954	1.214556	RPS12P3	0.829826533	0	547.0328046	9.095484	SEPTIN14	4.402569665	189.2004496	42.97500414	5.425426
LURAP1L	73.74304189	171.1206006	2.320498263	1.214435	TRIM80P	0.829826533	0	547.0328046	9.095484	PLA2G3	1.100642416	47.3001124	42.97500414	5.425426
ZNF581	51.73019357	120.006655	2.319857065	1.214036	GTF2I-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	47.3001124	42.97500414	5.425426
TMCO4	536.0128567	1243.402286	2.319724743	1.213954	PPP1R26P5	0.829826533	0	547.0328046	9.095484	DCX	1.100642416	46.47028587	42.2210567	5.399891
HSPA12B	40.7237694	94.44968217	2.31927652	1.213675	LINC03033	0.829826533	0	547.0328046	9.095484	DRD5	1.100642416	46.47028587	42.2210567	5.399891
ARHGEF15	29.71734524	68.89270935	2.318265942	1.213046	SCAND3P1	0.829826533	0	547.0328046	9.095484	S100A12	1.100642416	45.64045934	41.46710926	5.373896
LRP4	298.2740948	691.149439	2.317162137	1.212359	SLC25A6P3	0.829826533	0	547.0328046	9.095484	UNC13A	28.61670282	1181.672984	41.29312139	5.36783
NAGPA	67.13918739	155.5641824	2.317039995	1.212283	LUZP4P1	0.829826533	0	547.0328046	9.095484	TUBB2B	31.91863007	1300.338178	40.73916001	5.348344
TMEM132A	272.9593192	632.2572842	2.316305909	1.211826	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	44.8106328	40.71316182	5.347423
SDHC	583.3404806	1351.186041	2.316290548	1.211816	ENSG00000	0.829826533	0	547.0328046	9.095484	H2AC13	61.63597531	2491.139253	40.41696818	5.336889
TMEM44	37.42184215	86.67147305	2.316066448	1.211677	CYCSP10	0.829826533	0	547.0328046	9.095484	LMO3	129.8758051	5230.39664	40.27229425	5.331716
WDR59	476.5781663	1103.394522	2.315243543	1.211164	RPL35AP20	0.829826533	0	547.0328046	9.095484	SIX3	8.80513933	351.8464501	39.95921438	5.320456
SMG5	1072.025713	2481.248709	2.314542159	1.210727	LINC02543	0.829826533	0	547.0328046	9.095484	LINC02009	1.100642416	43.98080627	39.95921438	5.320456
SNORD3A	86.95075089	201.1222644	2.313059546	1.209802	IPO7P1	0.829826533	0	547.0328046	9.095484	XKR7	3.301927249	130.2827657	39.45658275	5.302194
ISOC2	178.3040714	412.2450834	2.312034044	1.209163	MTCO1P57	0.829826533	0	547.0328046	9.095484	MMP12	11.00642416	433.1694504	39.35605643	5.298514
MRPS16	220.1284833	508.917111	2.311909406	1.209085	LINC00327	0.829826533	0	547.0328046	9.095484	HORMAD1	14.30835141	561.7925631	39.2632629	5.295108
TRPC1	422.6466879	976.7208309	2.310962937	1.208494	CICP26	0.829826533	0	547.0328046	9.095484	CCDC92B	1.100642416	43.15097974	39.20526694	5.292976
GUCY1A1	1131.460404	2613.478264	2.309827419	1.207785	NALCN-AS1	0.829826533	0	547.0328046	9.095484	TMSB15A	6.603854498	258.9058784	39.20526694	5.292976
ANXA7	1567.314801	3616.867241	2.307683969	1.206446	ENSG00000	0.829826533	0	547.0328046	9.095484	NSG2	3.301927249	128.6231127	38.95395113	5.283698
SLC39A13	130.9764475	302.238983	2.307582689	1.206382	PHGR1	0.829826533	0	547.0328046	9.095484	TYMS	71.54175706	2760.00305	38.5789106	5.26974
CYP4F11	15.40899383	35.55752741	2.307582689	1.206382	ENSG00000	0.829826533	0	547.0328046	9.095484	CHRM4	6.603854498	253.9269192	38.4513195	5.264961
IZUMO1	15.40899383	35.55752741	2.307582689	1.206382	ENSG00000	0.829826533	0	547.0328046	9.095484	GPC3	91.35332055	3458.716991	37.86087873	5.242636
SPATA32	15.40899383	35.55752741	2.307582689	1.206382	PTCHD1-AS	0.829826533	0	547.0328046	9.095484	ASGR2	2.201284833	82.98265334	37.69737206	5.236392
FAM166A	15.40899383	35.55752741	2.307582689	1.206382	LINC01271	0.829826533	0	547.0328046	9.095484	LBX1	1.100642416	41.49132667	37.69737206	5.236392
RPL6P10	15.40899383	35.55752741	2.307582689	1.206382	LINC00892	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	41.49132667	37.69737206	5.236392
ANGPTL3	7.704496914	17.7787637	2.307582689	1.206382	RPL12P3	0.829826533	0	547.0328046	9.095484	GABBR2	12.10706658	455.5747668	37.62883138	5.233767
MEP1B	7.704496914	17.7787637	2.307582689	1.206382	ENSG00000	0.829826533	0	547.0328046	9.095484	SYN3	9.905781747	369.2728073	37.27851237	5.220272
OR8K5	7.704496914	17.7787637	2.307582689	1.206382	ENSG00000	0.829826533	0	547.0328046	9.095484	GINS2	16.50963624	614.9014612	37.24500359	5.218975
COLEC10	7.704496914	17.7787637	2.307582689	1.206382	BPIFB5P	0.829826533	0	547.0328046	9.095484	DPYSL5	18.71092108	688.7560227	36.81037507	5.202041
ENSG000002	7.704496914	17.7787637	2.307582689	1.206382	ENSG00000	0.829826533	0	547.0328046	9.095484	LHFPL4	4.402569665	161.816174	36.75493776	5.199866
TRNP1	7.704496914	17.7787637	2.307582689	1.206382	KLF4P1	0.829826533	0	547.0328046	9.095484	HECW2	71.54175706	2600.676356	36.35186585	5.183958
CRISPLD1	518.4025781	1195.621859	2.306357857	1.205616	RPS24P13	0.829826533	0	547.0328046	9.095484	MCM10	17.61027866	638.9664307	36.2837206	5.18125
AGTRAP	104.5610295	241.1244827	2.306064542	1.205433	MAPRE1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	39.8316736	36.18947717	5.177498
PLCB3	468.8736693	1081.171068	2.30588992	1.205324	KCNJ6-AS1	0.829826533	0	547.0328046	9.095484	RNF182	7.704496914	276.3322356	35.86635684	5.164559
THEM6	73.74304189	170.0094279	2.305430093	1.205036	LINC01687	0.829826533	0	547.0328046	9.095484	GRM8	13.207709	473.001124	35.81250345	5.162391
SCN3A	73.74304189	170.0094279	2.305430093	1.205036	ENSG00000	0.829826533	0	547.0328046	9.095484	CEACAM6	47.3276239	1689.526822	35.69853465	5.157793
GABARAPL2	279.5631737	644.4801842	2.305311446	1.204962	ENSG00000	0.829826533	0	547.0328046	9.095484	CELF3	6.603854498	234.0110824	35.43552973	5.147125
AP1G2	530.5096447	1222.290005	2.303992052	1.204136	VKORC1P1	0.829826533	0	547.0328046	9.095484	FOXD1	4.402569665	154.3477352	35.05855601	5.131695
GMNN	148.5867262	342.2412013	2.303309387	1.203708	ENSG00000	0.829826533	0	547.0328046	9.095484	FAM111B	81.44753881	2833.027785	34.78346708	5.12033
MYRF	35.22055732	81.11560939	2.303075691	1.203562	XXYLT1-AS	0.829826533	0	547.0328046	9.095484	HRH3	1.100642416	38.17202053	34.68158229	5.116098
RECQL4	62.73661773	144.4524551	2.3025222	1.203215	MTCO1P54	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	38.17202053	34.68158229	5.116098
C1orf159	82.54818122	190.0105371	2.301813732	1.202771	PPIAP32	0.829826533	0	547.0328046	9.095484	POU4F1	8.80513933	304.5463377	34.58733886	5.112172
ENTPD2	129.8758051	298.9054648	2.301471506	1.202557	MIPEPP3	0.829826533	0	547.0328046	9.095484	VIL1	7.704496914	264.7146641	34.35846196	5.102594
SLC22A1	19.81156349	45.55808199	2.299570249	1.201364	ENSG00000	0.829826533	0	547.0328046	9.095484	H2BC13	49.52890873	1687.037342	34.06166995	5.090077
C12orf60	19.81156349	45.55808199	2.299570249	1.201364	ENSG00000	0.829826533	0	547.0328046	9.095484	CASR	6.603854498	223.2233375	33.80197694	5.079036
ADGRA3P1	19.81156349	45.55808199	2.299570249	1.201364	ACTR1AP1	0.829826533	0	547.0328046	9.095484	MARCHF11	6.603854498	223.2233375	33.80197694	5.079036
TUBA1C	837.5888788	1925.662344	2.299054336	1.201041	MTND4P20	0.829826533	0	547.0328046	9.095484	STXBP5L	64.93790256	2189.082395	33.71039576	5.075122
GRID2IP	31.91863007	73.33740027	2.297636211	1.20015	RPS2P48	0.829826533	0	547.0328046	9.095484	H4C1	27.51606041	919.447799	33.41495059	5.062422
EDNRB	223.4304105	513.3618019	2.297636211	1.20015	ENSG00000	0.829826533	0	547.0328046	9.095484	JAKMIP2	64.93790256	2160.038466	33.2631388	5.055852
TYK2	906.929351	2083.448871	2.297255976	1.199912	BETALINC1	0.829826533	0	547.0328046	9.095484	RTBDN	4.402569665	146.0494699	33.17368741	5.051967
GABRG3	56.13276323	128.8960368	2.296271009	1.199293	RPL7P35	0.829826533	0	547.0328046	9.095484	SPINK2	2.201284833	73.02473494	33.17368741	5.051967
CFAP61	92.45396297	212.2339917	2.295564029	1.198849	MKNK2P1	0.829826533	0	547.0328046	9.095484	CALML5	1.100642416	36.51236747	33.17368741	5.051967
ZNF772	213.5246288	490.0271746	2.29494451	1.198459	ENSG00000	0.829826533	0	547.0328046	9.095484	LIN28B	1.100642416	36.51236747	33.17368741	5.051967
RAB11B-AS1	24.21413316	55.55863657	2.294471423	1.198162	CYCSP33	0.829826533	0	547.0328046	9.095484	GGH	30.81798766	1016.537503	32.98520055	5.043747

SLC16A8	12.10706658	27.77931829	2.294471423	1.198162	B4GALT1-A	0.829826533	0	547.0328046	9.095484	KIF1A	179.4047139	5888.449081	32.82215363	5.036598
MMP24	12.10706658	27.77931829	2.294471423	1.198162	KRT8P39	0.829826533	0	547.0328046	9.095484	SFTPC	3.301927249	107.8774493	32.67105578	5.029941
FAM169A	169.4989321	388.910456	2.294471423	1.198162	RPS3AP8	0.829826533	0	547.0328046	9.095484	PIMREG	4.402569665	142.7301637	32.41973997	5.018801
CTNNAL1	607.5546138	1393.410605	2.293473827	1.197534	LINC00690	0.829826533	0	547.0328046	9.095484	MKRN9P	4.402569665	142.7301637	32.41973997	5.018801
THSD7B	64.93790256	148.897146	2.292915849	1.197183	EIF4EP1	0.829826533	0	547.0328046	9.095484	STAP1	18.71092108	604.1137163	32.28669042	5.012868
JMJD8	704.4111464	1614.533979	2.292033547	1.196628	BTF3P5	0.829826533	0	547.0328046	9.095484	NEUROD4	2.201284833	69.7054288	31.66579253	4.984853
HDAC11	110.0642416	252.23621	2.291718058	1.19643	HNRNPA1P	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	207.4566333	31.41447671	4.973358
CALHM2	73.74304189	168.8982552	2.290361922	1.195576	ENSG000002	0.829826533	0	547.0328046	9.095484	IBSP	3.301927249	103.7283167	31.41447671	4.973358
CYP2C8	16.50963624	37.77987287	2.288352833	1.19431	GPR158-AS1	0.829826533	0	547.0328046	9.095484	DLGAP3	4.402569665	137.7512045	31.28881881	4.967575
SVOPL	16.50963624	37.77987287	2.288352833	1.19431	ARHGEF7-I	0.829826533	0	547.0328046	9.095484	BEST3	12.10706658	376.7412461	31.11746712	4.959653
CHPT1	922.3383449	2110.117017	2.287790623	1.193955	ENSG000002	0.829826533	0	547.0328046	9.095484	CARMIL3	1.100642416	34.02288787	30.91184509	4.950088
ERBB2	2648.145654	6058.113732	2.287681466	1.193886	CENPNP1	0.829826533	0	547.0328046	9.095484	CFAP74	9.905781747	305.3761643	30.82807315	4.946173
SNX17	527.2077174	1205.622414	2.286807218	1.193335	ENSG000000	0.829826533	0	547.0328046	9.095484	RIPPLY3	4.402569665	135.2617249	30.72335823	4.941264
LSM7	278.4625313	636.7019751	2.286490653	1.193135	ENSG000000	0.829826533	0	547.0328046	9.095484	DISP2	2.201284833	67.2159492	30.53487137	4.932386
AP4M1	41.82441182	95.5608549	2.284810491	1.192075	ENSG000002	0.829826533	0	547.0328046	9.095484	CHRNB2	6.603854498	201.6478476	30.53487137	4.932386
NLE1	108.9635992	248.9026918	2.284273773	1.191736	TRIM49D2	0.829826533	0	547.0328046	9.095484	RBP4	8.80513933	267.2041437	30.34638451	4.923453
HYDIN2	88.0513933	201.1222644	2.284146302	1.191655	CLDN14-AS	0.829826533	0	547.0328046	9.095484	TOP2A	594.3469048	17967.4041	30.23049999	4.917933
ADAM15	516.2012932	1178.954268	2.283904135	1.191502	GIRGL	0.829826533	0	547.0328046	9.095484	FIBCD1	2.201284833	66.38612267	30.15789765	4.914464
RRP12	239.9400468	547.8081566	2.283104317	1.190997	ERCC8-AS1	0.829826533	0	547.0328046	9.095484	PROX1-AS1	1.100642416	33.19306133	30.15789765	4.914464
ENSG000002	29.71734524	67.78153662	2.280874556	1.189587	ENSG000000	0.829826533	0	547.0328046	9.095484	LINC01134	1.100642416	33.19306133	30.15789765	4.914464
RPL15P3	29.71734524	67.78153662	2.280874556	1.189587	LONRF2P2	0.829826533	0	547.0328046	9.095484	ADAMTS18	11.00642416	331.1007868	30.0825029	4.910853
RBM42	212.4239863	484.4713109	2.280680818	1.189465	ENSG000002	0.829826533	0	547.0328046	9.095484	CHGB	18.71092108	562.6223896	30.06919795	4.910214
WIZ	684.5995829	1560.086515	2.278830653	1.188294	LINC02650	0.829826533	0	547.0328046	9.095484	SULT1C2	4.402569665	131.9424188	29.96941078	4.905419
RER1	457.8672452	1043.391195	2.278807243	1.188279	RCC2P3	0.829826533	0	547.0328046	9.095484	KIAA1549L	19.81156349	593.3259714	29.9484678	4.90441
TMC6	346.7023611	790.0438121	2.278737905	1.188235	BTF3P6	0.829826533	0	547.0328046	9.095484	KIF18B	23.11349074	690.4156758	29.87067957	4.900658
AP3B2	38.52248457	87.78264578	2.278737905	1.188235	ENSG000002	0.829826533	0	547.0328046	9.095484	FST	49.52890873	1478.750882	29.85631867	4.899964
MPP1	244.3426164	556.6975385	2.278348111	1.187988	RPS20P10	0.829826533	0	547.0328046	9.095484	H3C2	80.34689639	2397.368855	29.83772818	4.899066
HECTD3	331.2933673	754.4862846	2.277396287	1.187385	LINC01360	0.829826533	0	547.0328046	9.095484	GPR3	1.100642416	32.3632348	29.4039502	4.877938
NCAM2	47.3276239	107.7837549	2.277396287	1.187385	RPL22P21	0.829826533	0	547.0328046	9.095484	CEP55	9.905781747	284.6305009	28.7337747	4.844676
SLC37A1	462.2698148	1052.280577	2.276334173	1.186712	GDI2P2	0.829826533	0	547.0328046	9.095484	SLC38A3	13.207709	378.4008992	28.65000276	4.840463
LARGE2	246.5439013	561.1422294	2.276033706	1.186522	ENSG000000	0.829826533	0	547.0328046	9.095484	CDKN2B-AS	9.905781747	283.8006744	28.65000276	4.840463
ZNF599	64.93790256	147.7859733	2.275804537	1.186377	ENSG000000	0.829826533	0	547.0328046	9.095484	KCNF1	3.301927249	94.6002248	28.65000276	4.840463
PUS1	108.9635992	247.7915191	2.274076122	1.185281	ENSG000002	0.829826533	0	547.0328046	9.095484	ELP5	3.301927249	94.6002248	28.65000276	4.840463
PLEKHG5	144.1841565	327.7959558	2.273453364	1.184885	ENSG000000	0.829826533	0	547.0328046	9.095484	SHISA8	1.100642416	31.53340827	28.65000276	4.840463
CPT1A	913.5332055	2076.781835	2.273351228	1.184821	SPATA17-A1	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	156.8372148	28.49921327	4.83285
PLXND1	1355.991457	3082.393157	2.273165617	1.184703	CBX3P10	0.829826533	0	547.0328046	9.095484	CSPG4P13	3.301927249	93.77039827	28.39868695	4.827752
ENSG000002	22.01284833	50.00277291	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	UNC13C	27.51606041	779.2071148	28.31826589	4.823661
TEDC2	17.61027866	40.00221833	2.271526709	1.183662	FRMD4A-A1	0.829826533	0	547.0328046	9.095484	RGS16	13.207709	371.7622869	28.14737114	4.814928
ELFN1	17.61027866	40.00221833	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	ZNF98	5.503212081	154.3477352	28.04684481	4.809767
GCNT7	8.80513933	20.00110917	2.271526709	1.183662	RPL13AP6	0.829826533	0	547.0328046	9.095484	ZNF804B	15.40899383	431.5097974	28.0037621	4.807549
RFPL1	8.80513933	20.00110917	2.271526709	1.183662	RHBDF1P1	0.829826533	0	547.0328046	9.095484	CTNNA2	13.207709	369.2728073	27.95888428	4.805235
LANCL3	8.80513933	20.00110917	2.271526709	1.183662	AP2B1P1	0.829826533	0	547.0328046	9.095484	HOXB5	1.100642416	30.70358173	27.89605532	4.801989
SLC5A12	8.80513933	20.00110917	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	MAD2L1	34.11991491	949.3215542	27.82309267	4.798211
FBXO40	8.80513933	20.00110917	2.271526709	1.183662	LINC01675	0.829826533	0	547.0328046	9.095484	COL11A1	57.23340565	1589.947638	27.78006341	4.795978
LDLRAD2	8.80513933	20.00110917	2.271526709	1.183662	UGT1A13P	0.829826533	0	547.0328046	9.095484	GRIK2	105.661672	2920.989397	27.64473951	4.788933
INSYN2B	8.80513933	20.00110917	2.271526709	1.183662	RBPMSLP	0.829826533	0	547.0328046	9.095484	CTSV	23.11349074	638.1366042	27.60883725	4.787058
SEZ6	4.402569665	10.00055458	2.271526709	1.183662	ENSG000002	0.829826533	0	547.0328046	9.095484	CDKN2A	24.21413316	663.0314002	27.38200025	4.775156
CABP7	4.402569665	10.00055458	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	THBD	48.42826632	1315.275055	27.15924305	4.763371
SEMG2	4.402569665	10.00055458	2.271526709	1.183662	PIGO-AS1	0.829826533	0	547.0328046	9.095484	CKAP2L	67.13918739	1820.639414	27.11738829	4.761146
TMPRSS9	4.402569665	10.00055458	2.271526709	1.183662	H2AZ2-DT	0.829826533	0	547.0328046	9.095484	HES6	16.50963624	447.2765015	27.09184472	4.759787
KRT6B	4.402569665	10.00055458	2.271526709	1.183662	LINC01781	0.829826533	0	547.0328046	9.095484	NEURL1	17.61027866	475.4906036	27.00074274	4.754927
ZSCAN5B	4.402569665	10.00055458	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	FOXB1	9.905781747	267.2041437	26.974564	4.753528
ENSG000002	4.402569665	10.00055458	2.271526709	1.183662	RBPJP7	0.829826533	0	547.0328046	9.095484	CCNE1	16.50963624	443.1273688	26.8405289	4.746341
KMT5AP2	4.402569665	10.00055458	2.271526709	1.183662	ENSG000002	0.829826533	0	547.0328046	9.095484	LYPD1	23.11349074	619.8804204	26.81898755	4.745183
RPL15P2	4.402569665	10.00055458	2.271526709	1.183662	RPL7L1P1	0.829826533	0	547.0328046	9.095484	PCDH11X	41.82441182	1116.946514	26.70561199	4.739071
ENSG000002	4.402569665	10.00055458	2.271526709	1.183662	LINC01937	0.829826533	0	547.0328046	9.095484	FAM72A	8.80513933	234.8409089	26.67089073	4.737194
MZF1-AS1	4.402569665	10.00055458	2.271526709	1.183662	LINC00229	0.829826533	0	547.0328046	9.095484	PTPRN	16.50963624	439.8080627	26.63947625	4.735494
ENSG000002	4.402569665	10.00055458	2.271526709	1.183662	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH9	13.207709	351.8464501	26.63947625	4.735494
RELT	26.41541799	60.0033275	2.271526709	1.183662	ST13P18	0.829826533	0	547.0328046	9.095484	RGS17	11.00642416	292.0989397	26.53894993	4.730039
SLC18A1	13.207709	30.00166375	2.271526709	1.183662	MRPS10P2	0.829826533	0	547.0328046	9.095484	CRMP1	56.13276323	1472.942097	26.24032761	4.713714
UGT1A4	13.207709	30.00166375	2.271526709	1.183662	ENSG000002	0.829826533	0	547.0328046	9.095484	H3C7	73.74304189	1930.176517	26.17435445	4.710082
ENSG000002	13.207709	30.00166375	2.271526709	1.183662	ENSG000000	0.829826533	0	547.0328046	9.095484	CHD5	18.71092108	487.9380016	26.07771149	4.704745
MIER2	203.618847	462.2478563	2.270162429	1.182796	LINC03025	0.829826533	0	547.0328046	9.095484	ZNF488	2.201284833	57.2580308	26.01118672	4.70106
CLUL1	177.203429	402.2445288	2.269959058	1.182666	ENSG000000	0.829826533	0	547.0328046	9.095484	E2F1	25.31477557	657.2226144	25.96201623	4.698331
DAPK1	1206.304088	2737.92961	2.269684433	1.182492	LINC02765	0.829826533	0	547.0328046	9.095484	TMEM108	4.402569665	113.6862351	25.82269986	4.690568
WHRN	374.2184215	848.9359668	2.268557393	1.181775	RPL34-DT	0.829826533	0	547.0328046	9.095484	MIR924HG	4.402569665	113.6862351	25.82269986	4.690568
QTRT1	165.0963624	374.4652105	2.268161484	1.181523	ENSG000002	0.829826533	0	547.0328046	9.095484	NOL4	27.51606041	710.3315126	25.81516038	4.690147
MEAF6	527.2077174	1195.621859	2.26783831	1.181318	ENSG000002	0.829826533	0	547.0328046	9.095484	ZIC5	14.30835141	367.6131543	25.69220896	4.683259
INTS11	653.7815953	1482.304424	2.267277688	1.180961	LINC01506	0.829826533	0	547.0328046	9.095484	CA9	2.201284833	56.42820427	25.634213	4.679999
EXO5	58.33404806	132.229555	2.266764599	1.180635	ENSG000000	0.829826533	0	547.0328046	9.095484	NXPH1	1.100642416	28.21410213	25.634213	4.679999
PGS1	221.2291257	501.1389019	2.265248305	1.179669	NDUFB1P2	0.829826533	0	547.0328046	9.095484	CDC45	14.30835141	365.9535012	25.57621704	4.676731
ENO3	40.7237694	92.22733671	2.264705308	1.179323	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH23	85.85010847	2166.677079	25.23790729	4.65752
ADORA3	36.32119974	82.22678213	2.263878471	1.178797	ENSG000000	0.829826533	0	547.0328046	9.095484	HCN2	8.80513933	220.7338579	25.06875242	4.647818
AKAP8	409.4389789	926.718058	2.263385036	1.178482	ZFRP1	0.829826533	0	547.0328046	9.095484	H2AC12	61.63597531	1537.668566	24.94758229	4.640828
E2F5	268.5567496	607.8114841	2.263251566	1.178397	MTND1P26	0.829826533	0	547.0328046	9.095484	RNA5S9	2.201284833	54.7685512	24.88026556	4.63693
AHNAK2	1495.773044	3384.63214	2.262797925	1.178108	ENSG000002	0.829826533	0	547.0328046	9.095484	ARG1	1.100642416	27.3842756	24.88026556	4.63693
ATP13A1	925.6402721	2093.449426	2.261623105	1.177359	ENSG000000	0.829826533	0	547.0328046	9.095484	CA10	1.100642416	27.3842756	24.88026556	4.63693
WNT5A	878.3126482	1984.554498	2.259508049	1.176009	ENSG000000	0.829826533	0	547.0328046	9.095484	LHFPL5	1.100642416	27.3842756	24.88026556	4.63693
ANKRD24	46.22698148	104.4502368	2.259508049	1.176009	OTX2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	27.3842756	24.88026556	4.63693
ZC3H3	203.618847	460.0255108	2.259248186	1.175843	HMGN2P5	0.829826533	0	547.0328046	9.095484	PTPRG-AS1	5.503212081	136.921378	24.88026556	4.63693
ALG1	134.2783748	303.3501557	2.259113995	1.175757	ENSG000000	0.829826533	0	547.0328046	9.095484	EPHB1	27.51606041	682.1174104	24.78979186	4.631674
STK25	523.9057902	1183.398959	2.258801069	1.175557	RIPOR3-AS1	0.829826533	0	547.0328046	9.095484	PEX5L	9.905781747	244.7988273	24.71272168	4.627182
CMTM6	250.9464709	566.698093	2.258242927	1.175201	LINC01287	0.829826533	0	547.0328046	9.095484	SCGB2A1	15.40899383	380.0605523	24.664852	4.624385
TDRP	121.0706658	273.3484919	2.257759881	1.174892	ENSG000000	0.829826533	0	547.0328046	9.095484	MCOLN3	31.91863007	783.3562475	24.54228912	4.617198
NDUFC2	79.24625397	178.8988098	2.257504939	1.174729	LINC02817	0.829826533	0	547.0328046	9.095484	H3C3	77.04496914	1878.727272	24.38481438	4.607911
EPHX1	1394.513941	3147.952348	2.257383203	1.174651	RPL26P29	0.829826533	0	547.0328046	9.095484	TMEM74	6.603854498	160.1565209	24.25197602	4.60003
WDR24	182.7066411	412.2450834	2.25632238	1.173973	ENSG000000	0.829826533	0	547.0328046	9.095484	ZWINT	31.91863007	770.9088495	24.1523163	4.59409
THBS3	367.614567	828.9348577	2.254902096	1.173065	IFNA17	0.829826533	0	547.0328046	9.095484	NRN1	17.61027866	424.8711851	24.12631812	4.592536
GPR137B	585.5417655	1320.073205	2.254447561	1.172774	ENSG000000	0.829826533	0	547.0328046	9.095484	ID2-AS1	1.100642416	26.55444907	24.12631812	4.592536
SCN9A	90.25267814	203.3446099	2.253059012	1.171885	ENSG000002	0.829826533	0	547.0328046	9.095484	ALAS2	3.301927249	79.6633472	24.12631812	4.592536
YJU2B	209.1220591	471.1372381	2.252929414	1.171802	LINC02632	0.829826533	0	547.0328046	9.095484	TMPOP2	3.301927249	79.6633472	24.12631812	4.592536
MTHFR	366.5139246	825.6013395	2.252578371	1.171577	GRK3-AS1	0.829826533	0	547.0328046	9.095484	CDC6	72.64239948	1747.614679	24.05777744	4.588431
BRAT1	190.411138	428.9126743	2.252560847	1.171566	ENSG000002	0.829826533	0	547.0328046	9.095484	DPYSL4	13.207709	315.3340827	23.8750023	4.577429
HERC5	233.3361923	525.584702	2.252478267	1.171513	APOC2	0.829826533	0	547.0328046	9.095484	PSME1	3.301927249	78.83352067	23.8750023	4.577429
ELOVL6	28.61670282	64.44801842	2.252111951	1.171279	ENSG000000	0.829826533	0	547.0328046	9.095484	AQP9	2.201284833	52.2790716	23.7493444	4.569816
ENSG000002	14.30835141	32.22400921	2.252111951	1.171279	ENSG000000	0.829826533	0	547.0328046	9.095484	LRP2	154.0899383	3641.278828	23.63086694	4.562601
HGS	420.445403	945.6079945	2.249062512	1.169324	GRID1-AS1	0.829826533	0	547.0328046	9.095484	KIF4A	56.13276323	1323.573321	23.57933664	4.559451
DGKB	24.21413316	54.44746384	2.248581995	1.169015	FTH1P2	0.829826533	0	547.0328046	9.095484	TMPRSS6	9.905781747	233.1812559	23.53991455	4.557037
PELP1	622.9636076	1400.077642	2.247446921	1.168287	PRADX	0.829826533	0	547.0328046	9.095484	UCHL1	41.82441182	983.344442	23.51125573	4.55528
CECR2	305.9785917	686.704748	2.244290178	1.166259	ENSG000002	0.829826533	0	547.0328046	9.095484	GINS4	11.00642416	258.0760519	23.44776542	4.551379
LRRC42	305.9785917	686.704748	2.244290178	1.166259	VDAC1P4	0.829826533	0	547.0328046	9.095484	RETNLB	1.100642416	25.72462253	23.37237068	4.546732

LOXL3	59.43469048	133.3407278	2.243483169	1.16574	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU5A-1	1.100642416	25.72462253	23.37237068	4.546732
NIBAN3	29.71734524	66.67036389	2.243483169	1.16574	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNH8	37.42184215	872.9775131	23.32802083	4.543992
SKIDA1	29.71734524	66.67036389	2.243483169	1.16574	FAM237A	0.829826533	0	547.0328046	9.095484	H2AC4	27.51606041	641.4559103	23.31205488	4.543004
AXIN1	307.0792341	688.9270935	2.243483169	1.16574	TP73-AS2	0.829826533	0	547.0328046	9.095484	DTL	60.5353329	1404.896321	23.20787305	4.536542
OBSCN-AS1	39.62312699	88.89381852	2.243483169	1.16574	HSP90AB6P	0.829826533	0	547.0328046	9.095484	SYT2	3.301927249	75.51421454	22.86973905	4.515368
PPP1R42	19.81156349	44.44690926	2.243483169	1.16574	COX6CP17	0.829826533	0	547.0328046	9.095484	EEF1A2	40.7237694	926.0864112	22.74068498	4.507204
NUDT18	19.81156349	44.44690926	2.243483169	1.16574	LINC01366	0.829826533	0	547.0328046	9.095484	FAM163A	2.201284833	49.789592	22.61842323	4.499426
HAND2	9.905781747	22.22345463	2.243483169	1.16574	ENSG000002	0.829826533	0	547.0328046	9.095484	ART1	1.100642416	24.894796	22.61842323	4.499426
KCNJ4	9.905781747	22.22345463	2.243483169	1.16574	ENSG000002	0.829826533	0	547.0328046	9.095484	NTS	1.100642416	24.894796	22.61842323	4.499426
SNAI3	9.905781747	22.22345463	2.243483169	1.16574	TATDN2P3	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	24.894796	22.61842323	4.499426
ENSG000002	9.905781747	22.22345463	2.243483169	1.16574	LINC00383	0.829826533	0	547.0328046	9.095484	VGF	5.503212081	123.6441535	22.46763375	4.489776
ENSG000002	9.905781747	22.22345463	2.243483169	1.16574	SUMO2P1	0.829826533	0	547.0328046	9.095484	ZIC2	23.11349074	518.6415834	22.43891194	4.487931
LONRF3	125.4732355	281.1267011	2.240531218	1.163841	ENSG000002	0.829826533	0	547.0328046	9.095484	MGAT4C	13.207709	296.2480724	22.42993637	4.487354
AP2A1	654.8822377	1466.748005	2.239712609	1.163314	ENSG000002	0.829826533	0	547.0328046	9.095484	RASD1	100.1584599	2229.743895	22.26216236	4.476522
NAXD	146.3854414	327.7959558	2.239266096	1.163026	ENSG000002	0.829826533	0	547.0328046	9.095484	NUF2	16.50963624	365.9535012	22.16605477	4.47028
VSIR	202.5182046	453.3584744	2.238606032	1.162601	ENSG000002	0.829826533	0	547.0328046	9.095484	CHRNA4	7.704496914	170.1144393	22.07988935	4.464661
SPP1	283.9657434	635.5908024	2.238265767	1.162381	RPL12P25	0.829826533	0	547.0328046	9.095484	H2BC17	72.64239948	1603.224862	22.07009782	4.464021
CIC	1501.276256	3360.18634	2.238219866	1.162352	ENSG000002	0.829826533	0	547.0328046	9.095484	SYT13	20.91220591	461.3835526	22.06288301	4.463549
SPSB3	213.5246288	477.8042745	2.237700996	1.162017	MTND4P31	0.829826533	0	547.0328046	9.095484	CDC25C	19.81156349	436.4887566	22.03201967	4.46153
METRN	56.13276323	125.5625187	2.23688469	1.161491	CYMP-AS1	0.829826533	0	547.0328046	9.095484	KIRREL2	2.201284833	48.12993894	21.86447579	4.450517
FDPS	183.8072835	411.1339106	2.236766154	1.161414	KATNBL1P3	0.829826533	0	547.0328046	9.095484	LINC02024	1.100642416	24.06496947	21.86447579	4.450517
EAF1	189.3104956	423.3568107	2.236309241	1.16112	MTATP6P17	0.829826533	0	547.0328046	9.095484	5 8S rRNA.1	25.31477557	551.8346447	21.79891515	4.446184
ADAM29	15.40899383	34.44635467	2.23547073	1.160579	TRAPPC13P	0.829826533	0	547.0328046	9.095484	RUNDC3A	13.207709	285.4603275	21.61315998	4.433838
FPR1	15.40899383	34.44635467	2.23547073	1.160579	LINC01664	0.829826533	0	547.0328046	9.095484	SAMD13	13.207709	285.4603275	21.61315998	4.433838
RPS13P2	15.40899383	34.44635467	2.23547073	1.160579	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	71.36508187	21.61315998	4.433838
SLC25A21-A	15.40899383	34.44635467	2.23547073	1.160579	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH2	106.7623144	2304.428283	21.58466025	4.431934
MACROD1	82.54818122	184.4546734	2.234509237	1.159958	GUSBP17	0.829826533	0	547.0328046	9.095484	DYDC2	2.201284833	47.3001124	21.48750207	4.425426
AOC2	51.73019357	115.5619641	2.233936433	1.159588	SNX18P14	0.829826533	0	547.0328046	9.095484	LRFN5-DT	2.201284833	47.3001124	21.48750207	4.425426
DNAJC6	114.4668113	255.5697282	2.232697193	1.158788	POU5F1P3	0.829826533	0	547.0328046	9.095484	OIP5	5.503212081	117.8353677	21.41210733	4.420355
TCF3	427.0492575	953.3862036	2.232497041	1.158658	OR7E110P	0.829826533	0	547.0328046	9.095484	POMC	3.301927249	70.53525534	21.36184417	4.416964
ENSG000002	41.82441182	93.33850944	2.231675363	1.158127	ENSG000002	0.829826533	0	547.0328046	9.095484	SLCO4A1	13.207709	279.6515417	21.17335731	4.404178
PPP1R1A	20.91220591	46.66925472	2.231675363	1.158127	MIR670HG	0.829826533	0	547.0328046	9.095484	CPA2	1.100642416	23.23514293	21.11052835	4.399891
KLC2	305.9785917	682.2600571	2.229764028	1.156891	ENSG000002	0.829826533	0	547.0328046	9.095484	BMP7	51.73019357	1089.562238	21.06240405	4.396598
GRIN2D	26.41541799	58.89215477	2.2294614	1.156695	LINC00993	0.829826533	0	547.0328046	9.095484	ADIPOR2	5.503212081	115.3458881	20.95973886	4.389549
PLAAT3	275.1606041	613.3673478	2.229124877	1.156477	KRT18P46	0.829826533	0	547.0328046	9.095484	ADGRB1	44.02569665	918.6179724	20.86549543	4.383047
BCL6	1294.355482	2883.493238	2.227744448	1.155584	LINC03050	0.829826533	0	547.0328046	9.095484	H4C2	71.54175706	1488.708801	20.80894938	4.379132
CASZ1	1788.543926	3983.554242	2.22726106	1.155271	SEPTIN14P1	0.829826533	0	547.0328046	9.095484	GOLGA7B	7.704496914	160.1565209	20.78740802	4.377638
ZNF250	232.2355498	516.6953201	2.224876082	1.153725	ENSG000002	0.829826533	0	547.0328046	9.095484	MFSD2A	7.704496914	159.3266944	20.67970124	4.370143
SLC22A23	466.6723845	1037.835331	2.223905604	1.153096	DPYD-AS2	0.829826533	0	547.0328046	9.095484	EDN2	3.301927249	68.04577574	20.60789672	4.365125
PHF13	81.44753881	181.1211552	2.223776898	1.153012	ENSG000002	0.829826533	0	547.0328046	9.095484	OR52E8	3.301927249	68.04577574	20.60789672	4.365125
MYO5B	1075.327641	2391.243718	2.223735006	1.152985	PEF1-AS1	0.829826533	0	547.0328046	9.095484	CDCA7	18.71092108	383.3798584	20.48963046	4.356822
TMEM120A	92.45396297	205.5669553	2.22345207	1.152801	ENSG000002	0.829826533	0	547.0328046	9.095484	KHDRBS2	14.30835141	292.0989397	20.41457687	4.351528
ZFP36	750.6381279	1668.981443	2.223416824	1.152778	MYL6P2	0.829826533	0	547.0328046	9.095484	FOLR3	1.100642416	22.4053164	20.35658091	4.347423
OAZ1	972.967896	2162.342135	2.222418791	1.152131	ENSG000002	0.829826533	0	547.0328046	9.095484	SPTB	90.25267814	1837.235945	20.35658091	4.347423
POMT1	421.5460454	936.7186126	2.222102716	1.151926	PRELID1P3	0.829826533	0	547.0328046	9.095484	HEMGN	3.301927249	67.2159492	20.35658091	4.347423
LRBA	13010.694	28909.38095	2.221970707	1.15184	SRGAP3-AS	0.829826533	0	547.0328046	9.095484	E2F7	46.22698148	937.7039827	20.28477639	4.342325
H4C11	27.51606041	61.11450023	2.221048338	1.151241	HSP90AB7P	0.829826533	0	547.0328046	9.095484	UBE2T	44.02569665	887.0845642	20.14924536	4.332654
NLRP13	11.00642416	24.44580009	2.221048338	1.151241	LDHAP7	0.829826533	0	547.0328046	9.095484	AOC1	16.50963624	331.9306133	20.1052651	4.329501
RWDD4P2	11.00642416	24.44580009	2.221048338	1.151241	OR7E145P	0.829826533	0	547.0328046	9.095484	SYT5	3.301927249	66.38612267	20.1052651	4.329501
LILRB3	11.00642416	24.44580009	2.221048338	1.151241	ENSG000002	0.829826533	0	547.0328046	9.095484	ADGRB3	49.52890873	991.6427074	20.02149316	4.323478
CAMK2A	5.503212081	12.22290005	2.221048338	1.151241	FEM1AP4	0.829826533	0	547.0328046	9.095484	BFAR	2.201284833	43.98080627	19.97960719	4.320456
CST4	5.503212081	12.22290005	2.221048338	1.151241	ENSG000002	0.829826533	0	547.0328046	9.095484	ALX4	7.704496914	153.5179087	19.9257538	4.316562
TGM5	5.503212081	12.22290005	2.221048338	1.151241	RHOA-IT1	0.829826533	0	547.0328046	9.095484	NEIL3	17.61027866	350.1867971	19.88536376	4.313635
ULBP1	5.503212081	12.22290005	2.221048338	1.151241	MRPS18CP7	0.829826533	0	547.0328046	9.095484	ANK1	31.91863007	633.9874715	19.86261535	4.311984
PRAMEF12	5.503212081	12.22290005	2.221048338	1.151241	ENSG000002	0.829826533	0	547.0328046	9.095484	SCN9A	90.25267814	1791.595486	19.85088446	4.311131
MC3R	5.503212081	12.22290005	2.221048338	1.151241	TPT1P14	0.829826533	0	547.0328046	9.095484	CACNA1B	37.42184215	741.0350943	19.80220779	4.307589
HHLA1	5.503212081	12.22290005	2.221048338	1.151241	HSPE1P12	0.829826533	0	547.0328046	9.095484	MYBL2	72.64239948	1437.259556	19.78540861	4.306365
MS4A15	5.503212081	12.22290005	2.221048338	1.151241	LINC01553	0.829826533	0	547.0328046	9.095484	WDR62	38.52248457	760.9509311	19.75342296	4.304031
UGT2B7	5.503212081	12.22290005	2.221048338	1.151241	LINC01779	0.829826533	0	547.0328046	9.095484	ULBP1	5.503212081	108.7072759	19.75342296	4.304031
RSPH9	5.503212081	12.22290005	2.221048338	1.151241	H2BW3P	0.829826533	0	547.0328046	9.095484	DLGAP5	78.14561156	1541.817699	19.73006121	4.302324
KCNK7	5.503212081	12.22290005	2.221048338	1.151241	RPL7AP53	0.829826533	0	547.0328046	9.095484	SLC7A11	59.43469048	1165.906279	19.61659546	4.294003
LRRC55	5.503212081	12.22290005	2.221048338	1.151241	FBXL12P1	0.829826533	0	547.0328046	9.095484	LINC00310	2.201284833	43.15097974	19.60263347	4.292976
KRT25	5.503212081	12.22290005	2.221048338	1.151241	RPL23AP20	0.829826533	0	547.0328046	9.095484	HHIP-AS1	1.100642416	21.57548987	19.60263347	4.292976
OFD1P17	5.503212081	12.22290005	2.221048338	1.151241	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	21.57548987	19.60263347	4.292976
ENSG000002	5.503212081	12.22290005	2.221048338	1.151241	LINC02941	0.829826533	0	547.0328046	9.095484	HASPIN	15.40899383	302.0568581	19.60263347	4.292976
ENSG000002	5.503212081	12.22290005	2.221048338	1.151241	EYA2-AS1	0.829826533	0	547.0328046	9.095484	C10orf88B	3.301927249	64.7264696	19.60263347	4.292976
SIRT6	93.55460539	207.7893008	2.221048338	1.151241	CHIAP1	0.829826533	0	547.0328046	9.095484	MELK	88.0513933	1723.54971	19.57436044	4.290893
ALDH6A1	745.1349158	1653.425024	2.218960606	1.149884	ENSG000002	0.829826533	0	547.0328046	9.095484	BIRC5	17.61027866	344.3780113	19.55551175	4.289503
TMEM101	100.1584599	222.2345463	2.218829508	1.149799	LDHAP3	0.829826533	0	547.0328046	9.095484	UBE2S	57.23340565	1118.606167	19.54463751	4.288701
HPS6	83.64882364	185.5658462	2.218391581	1.149514	ENSG000002	0.829826533	0	547.0328046	9.095484	L1CAM	36.32119974	708.6718595	19.5112459	4.286234
FAM117B	490.8865177	1088.949277	2.218332013	1.149475	LINC03070	0.829826533	0	547.0328046	9.095484	H3C11	70.44111464	1374.192739	19.50839004	4.286023
WNT5B	78.14561156	173.3429461	2.218204486	1.149392	HAUS6P2	0.829826533	0	547.0328046	9.095484	ZNF492	6.603854498	128.6231127	19.47697556	4.283698
TUT1	78.14561156	173.3429461	2.218204486	1.149392	MIR7515HG	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	63.89664307	19.35131766	4.27436
CLCN6	472.1755966	1046.724713	2.21681239	1.148487	ENSG000002	0.829826533	0	547.0328046	9.095484	DHFRP1	2.201284833	42.3211532	19.22565975	4.264961
TRMT44	175.0021442	387.7992833	2.215968753	1.147938	CDC42EP3-/	0.829826533	0	547.0328046	9.095484	CDKN1A	85.85010847	1645.546016	19.16766379	4.260603
SNX8	163.99572	363.3534832	2.215627841	1.147716	EI24P2	0.829826533	0	547.0328046	9.095484	CDCA2	23.11349074	442.2975423	19.1359041	4.25821
GPLD1	68.23982981	151.1194915	2.214535	1.147004	ENSG000002	0.829826533	0	547.0328046	9.095484	TPX2	158.4925079	3007.291357	19.07434394	4.245978
SRSF2	1282.248415	2839.046329	2.214115686	1.146731	LINC01361	0.829826533	0	547.0328046	9.095484	UBE2C	24.21413316	458.894073	19.05149704	4.24424
ERICH3	28.61670282	63.33684569	2.213282434	1.146188	NDP-AS1	0.829826533	0	547.0328046	9.095484	STMN1	502.9935842	9510.641899	18.90807795	4.240931
SLFNL1-AS1	28.61670282	63.33684569	2.213282434	1.146188	MRGPRG-A	0.829826533	0	547.0328046	9.095484	ACTL6B	4.402569665	82.98265334	18.84868603	4.236392
NHSL1	445.7601786	985.6102128	2.211077301	1.144749	ENSG000002	0.829826533	0	547.0328046	9.095484	MND1	1.100642416	20.74566333	18.84868603	4.236392
MAGED2	916.8351328	2026.779062	2.210625433	1.144455	ENSG000002	0.829826533	0	547.0328046	9.095484	HAT1	1.100642416	20.74566333	18.84868603	4.236392
PACSIN3	168.3982897	372.242865	2.21049077	1.144367	TLX1NB	0.829826533	0	547.0328046	9.095484	HOXC9	1.100642416	20.74566333	18.84868603	4.236392
UBQLN4P1	40.7237694	90.00499125	2.210134095	1.144134	RPL34P34	0.829826533	0	547.0328046	9.095484	LINC01980	1.100642416	20.74566333	18.84868603	4.236392
MET	461.1691724	1018.945395	2.209482888	1.143709	FMR1-IT1	0.829826533	0	547.0328046	9.095484	GPR142	1.100642416	20.74566333	18.84868603	4.236392
LRATD2	222.3297681	491.1383473	2.209053477	1.143428	LINC02653	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	20.74566333	18.84868603	4.236392
FCRL5	35.22055732	77.7820912	2.208428745	1.14302	VENTXP7	0.829826533	0	547.0328046	9.095484	CDK5R1	19.81156349	373.42194	18.84868603	4.236392
ENSG000002	17.61027866	38.8910456	2.208428745	1.14302	KRTAP10-13	0.829826533	0	547.0328046	9.095484	SCN2A	128.7751627	2420.603998	18.79713407	4.232441
BTG1	671.3918739	1482.304424	2.207808109	1.142615	TAS2R39	0.829826533	0	547.0328046	9.095484	ACOT7	53.9314784	1008.239238	18.6948192	4.224567
FIBP	236.6381195	522.2511838	2.20696135	1.142061	NRADDP	0.829826533	0	547.0328046	9.095484	KCNK9	8.80513933	164.3056536	18.66019917	4.221892
MEOX2	47.3276239	104.4502368	2.20696135	1.142061	COPRSP1	0.829826533	0	547.0328046	9.095484	NDC80	35.22055732	656.3927879	18.63663831	4.22007
FLG2	47.3276239	104.4502368	2.20696135	1.142061	ENSG000002	0.829826533	0	547.0328046	9.095484	NMNAT2	7.704496914	142.7301637	18.5255657	4.211446
CYB561D2	29.71734524	65.55919115	2.206091783	1.141493	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF5A	8.80513933	162.6460005	18.47171231	4.207246
FSCN2	29.71734524	65.55919115	2.206091783	1.141493	ARF4P2	0.829826533	0	547.0328046	9.095484	ACBD7	4.402569665	81.32300027	18.47171231	4.207246
SAMD4B	662.5867346	1461.192142	2.205284328	1.140965	RPS12P4	0.829826533	0	547.0328046	9.095484	TRIM55	2.201284833	40.66150013	18.47171231	4.207246
MCRS1	191.5117804	422.2456379	2.204802425	1.140649	MED28P7	0.829826533	0	547.0328046	9.095484	PTX3	2.201284833	40.66150013	18.47171231	4.207246
APBB1	149.6873686	330.0183012	2.2047171	1.140594	ENSG000002	0.829826533	0	547.0328046	9.095484	BLACAT1	2.201284833	40.66150013	18.47171231	4.207246
PEBP1	548.1199233	1207.844759	2.203614041	1.139872	MYCL-AS1	0.829826533	0	547.0328046	9.095484	CDCA5	14.30835141	263.0550111	18.38471837	4.200435
KCNH3	12.10706658	26.66814555	2.202692566	1.139268	TCF3P1	0.829826533	0	547.0328046	9.095484	SYNGR4	5.503212081	100.4090105	18.24552808	4.189471
TUBBP1	217.9271984	480.02662	2.202692566	1.139268	ENSG000002	0.829826533	0	547.0328046	9.095484	DLK1	5.503212081	100.4090105	18.24552808	4.189471
KEAP1	577.8372686	1272.292777	2.201818482	1.138696	CRLF3P1	0.829826533	0	547.0328046	9.095484	TFCP2L1	126.5738779	2304.428283	18.20619169	4.186357

INSIG2	79.24625397	174.4541188	2.20141786	1.138433	MTND5P17	0.829826533	0	547.0328046	9.095484	EVA1A	1.100642416	19.9158368	18.09473859	4.177498
PNPLA2	451.2633907	993.3884219	2.201349461	1.138388	ENSG000002	0.829826533	0	547.0328046	9.095484	UROC1	1.100642416	19.9158368	18.09473859	4.177498
ZNF418	201.4175622	443.3579198	2.201187995	1.138282	PRKG1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	19.9158368	18.09473859	4.177498
CASTOR2	201.4175622	443.3579198	2.201187995	1.138282	LINC00347	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	19.9158368	18.09473859	4.177498
BCAT2	508.4967963	1118.950941	2.200507355	1.137836	LINC01829	0.829826533	0	547.0328046	9.095484	MLLT11	11.00642416	199.158368	18.09473859	4.177498
RHBDD2	399.5331971	878.9376306	2.199911389	1.137445	SSBL2P	0.829826533	0	547.0328046	9.095484	CASC9	3.301927249	59.7475104	18.09473859	4.177498
TRAF4	479.8800935	1055.614095	2.199745539	1.137337	SETD6P1	0.829826533	0	547.0328046	9.095484	CA2	7.704496914	137.7512045	17.87932503	4.16022
ZNF579	61.63597531	135.5630732	2.19941475	1.13712	ENSG000002	0.829826533	0	547.0328046	9.095484	CDCA8	22.01284833	393.3377768	17.86855435	4.159351
SSU72	435.8543969	957.8308945	2.197593741	1.135925	SDHDP4	0.829826533	0	547.0328046	9.095484	PRR11	37.42184215	665.5208798	17.78428964	4.152531
MTFR1L	212.4239863	466.6925472	2.196986109	1.135526	PTGES3P4	0.829826533	0	547.0328046	9.095484	HTR2C	4.402569665	78.00369414	17.71776487	4.147125
OGFOD3	381.9229185	838.9354122	2.196609242	1.135278	ENSG000002	0.829826533	0	547.0328046	9.095484	BUB1	130.9764475	2320.194987	17.71459702	4.146867
LONP1	790.2612549	1735.651807	2.196301281	1.135076	SULT1D1P	0.829826533	0	547.0328046	9.095484	SPC24	12.10706658	214.0952456	17.68349453	4.144331
MRPL27	113.3661689	248.9026918	2.195564111	1.134592	FABP5P1	0.829826533	0	547.0328046	9.095484	PTTG1	88.0513933	1555.92475	17.67064315	4.143283
POMK	341.1991491	748.930421	2.194994985	1.134218	ENSG000002	0.829826533	0	547.0328046	9.095484	NETO2	159.5931504	2813.941775	17.63197085	4.140122
PGGHG	133.1777324	292.2384284	2.194349034	1.133793	ENSG000002	0.829826533	0	547.0328046	9.095484	ODAD1	3.301927249	58.08785734	17.59210696	4.136856
RAD9A	133.1777324	292.2384284	2.194349034	1.133793	ATP2B2-IT1	0.829826533	0	547.0328046	9.095484	CERKL	11.00642416	193.3495823	17.56697538	4.134794
ZNF865	304.8779493	668.9259843	2.194077944	1.133615	PTMAP6	0.829826533	0	547.0328046	9.095484	RAB39A	17.61027866	308.6954704	17.52927801	4.131695
TSPAN17	184.9079259	405.578047	2.19340542	1.133172	WASF3-AS1	0.829826533	0	547.0328046	9.095484	EFR3B	73.74304189	1292.039912	17.5208383	4.131
GPX3	115.5674537	253.3473828	2.192203554	1.132382	RPL36AP11	0.829826533	0	547.0328046	9.095484	GDA	6.603854498	114.5160616	17.34079115	4.116098
HIGD2A	193.7130653	424.4679834	2.191220209	1.131734	GLIS3-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	38.17202053	17.34079115	4.116098
TLE2	465.5717421	1020.056567	2.190976117	1.131574	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM24	1.100642416	19.08601027	17.34079115	4.116098
GLYCTK	51.73019357	113.3396186	2.190976117	1.131574	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF20A	35.22055732	608.262849	17.27010857	4.110205
SLC25A22	51.73019357	113.3396186	2.190976117	1.131574	LINC02087	0.829826533	0	547.0328046	9.095484	CPS1	50.62955115	873.8073396	17.25884034	4.109264
EARS2	188.2098532	412.2450834	2.190348042	1.13116	EIF3IP1	0.829826533	0	547.0328046	9.095484	MGAM	12.10706658	208.2864599	17.20370979	4.104648
WRAP53	79.24625397	173.3429461	2.18739609	1.129214	ENSG000002	0.829826533	0	547.0328046	9.095484	TNR	5.503212081	94.6002248	17.19000166	4.103498
TMEM208	39.62312699	86.67147305	2.18739609	1.129214	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNK10	5.503212081	93.77039827	17.03921217	4.090787
NAPSA	6.603854498	14.44524551	2.18739609	1.129214	COX5BP6	0.829826533	0	547.0328046	9.095484	FSTL4	28.61670282	487.1081751	17.02181338	4.089313
ACOT12	6.603854498	14.44524551	2.18739609	1.129214	ENSG000002	0.829826533	0	547.0328046	9.095484	C9	39.62312699	673.8191451	17.00570339	4.087947
NLRP8	6.603854498	14.44524551	2.18739609	1.129214	RPL21P111	0.829826533	0	547.0328046	9.095484	LINC02301	6.603854498	112.026582	16.96381743	4.084389
TMEM207	6.603854498	14.44524551	2.18739609	1.129214	RPS20P9	0.829826533	0	547.0328046	9.095484	PHYHIPL	34.11991491	578.3890938	16.95165698	4.083354
HNRNPA3P1	6.603854498	14.44524551	2.18739609	1.129214	LINC01792	0.829826533	0	547.0328046	9.095484	SYT1	158.4925079	2685.318662	16.94287444	4.082607
ACSM5P1	6.603854498	14.44524551	2.18739609	1.129214	MBD3L5	0.829826533	0	547.0328046	9.095484	PNMA3	7.704496914	130.2827657	16.90996404	4.079802
ENSG000002	6.603854498	14.44524551	2.18739609	1.129214	MMADHCP	0.829826533	0	547.0328046	9.095484	TTK	50.62955115	853.8915028	16.86547645	4.076001
ENSG000002	6.603854498	14.44524551	2.18739609	1.129214	ENSG000002	0.829826533	0	547.0328046	9.095484	ECEL1	12.10706658	204.1373272	16.86100641	4.075619
ENSG000002	13.207709	28.89049102	2.18739609	1.129214	GTF3AP1	0.829826533	0	547.0328046	9.095484	ENHO	3.301927249	55.59837774	16.83815952	4.073663
DMPK	344.5010763	753.3751119	2.186858514	1.12886	LINC00851	0.829826533	0	547.0328046	9.095484	DGCR5	3.301927249	55.59837774	16.83815952	4.073663
PRKD2	671.3918739	1467.859178	2.186292738	1.128487	LINC01732	0.829826533	0	547.0328046	9.095484	DEPDC1B	63.83726015	1074.625361	16.83382649	4.073291
PKP3	93.55460539	204.4557826	2.185416546	1.127908	MTCO1P19	0.829826533	0	547.0328046	9.095484	H2BC9	117.7687385	1979.136282	16.80527708	4.070842
CORO1B	784.7580428	1714.539525	2.184800195	1.127501	SYP-AS1	0.829826533	0	547.0328046	9.095484	CHMP1B2P	14.30835141	239.8198681	16.76083158	4.067022
H3-3B	900.3254965	1966.775735	2.184516314	1.127314	CNN2P11	0.829826533	0	547.0328046	9.095484	DRAXIN	5.503212081	92.1107452	16.73763319	4.065024
PLIN3	384.1242033	838.9354122	2.184021223	1.126987	LINC01304	0.829826533	0	547.0328046	9.095484	CDT1	12.10706658	202.4776741	16.72392506	4.063842
SLC12A9	169.4989321	370.0205196	2.183025668	1.126329	NRXN2-AS1	0.829826533	0	547.0328046	9.095484	ONECUT2	12.10706658	200.8180211	16.5868437	4.051967
RPS6KA2	707.7130737	1544.530097	2.182424141	1.125932	XRCC6P1	0.829826533	0	547.0328046	9.095484	SLC6A20	11.00642416	182.5618373	16.5868437	4.051967
E4F1	245.4432588	535.5852566	2.182114347	1.125727	RPSAP11	0.829826533	0	547.0328046	9.095484	ESCO2	17.61027866	292.0989397	16.5868437	4.051967
MOB3C	102.3597447	223.345719	2.181968308	1.12563	LINC02790	0.829826533	0	547.0328046	9.095484	GJB2	4.402569665	73.02473494	16.5868437	4.051967
N4BP3	27.51606041	60.0033275	2.180665641	1.124769	CAMTA1-DT	0.829826533	0	547.0328046	9.095484	PCDHB2	2.201284833	36.51236747	16.5868437	4.051967
ZFHX2	413.8415485	902.2722579	2.180236038	1.124484	HNRNPA1P5	0.829826533	0	547.0328046	9.095484	DUSP9	2.201284833	36.51236747	16.5868437	4.051967
C2orf68	145.284799	316.6842285	2.179747852	1.124161	OR13D2P	0.829826533	0	547.0328046	9.095484	GBX2	1.100642416	18.25618373	16.5868437	4.051967
PRDX6	693.4047223	1511.194915	2.17938365	1.12392	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	18.25618373	16.5868437	4.051967
MECR	104.5610295	227.7904099	2.178540236	1.123362	TAAR4P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	18.25618373	16.5868437	4.051967
CREG1	322.488228	702.2611663	2.177633493	1.122761	LRRC52-AS	0.829826533	0	547.0328046	9.095484	GAS6-DT	1.100642416	18.25618373	16.5868437	4.051967
AFAP1	374.2184215	814.4896121	2.176508598	1.122016	ENSG000001	0.829826533	0	547.0328046	9.095484	LINC00511	12.10706658	199.9881945	16.51830303	4.045994
GIGYF1	449.0621058	976.7208309	2.17502394	1.121031	ENSG000001	0.829826533	0	547.0328046	9.095484	SAPCD2	11.00642416	181.7320108	16.51144896	4.045395
FRMPD4	28.61670282	62.22567296	2.174452918	1.120652	NONOP2	0.829826533	0	547.0328046	9.095484	H2AC11	195.9143501	3232.174347	16.49789485	4.04421
IL1R2	14.30835141	31.11283648	2.174452918	1.120652	RPS6P3	0.829826533	0	547.0328046	9.095484	PGBD5	17.61027866	289.6094601	16.44547856	4.039619
RPL32P18	14.30835141	31.11283648	2.174452918	1.120652	ENSG000000	0.829826533	0	547.0328046	9.095484	FCGR3B	7.704496914	126.1336331	16.37143015	4.033108
FREM3	14.30835141	31.11283648	2.174452918	1.120652	ENSG000000	0.829826533	0	547.0328046	9.095484	CXXC4	13.207709	215.7548987	16.33552789	4.029941
RFPL1S	14.30835141	31.11283648	2.174452918	1.120652	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	107.8774493	16.33552789	4.029941
TPCN2	71.54175706	155.5641824	2.174452918	1.120652	DYRK3-AS1	0.829826533	0	547.0328046	9.095484	PRMT8	3.301927249	53.93872467	16.33552789	4.029941
SBF1	939.9486235	2043.446653	2.17399824	1.120351	ENSG000000	0.829826533	0	547.0328046	9.095484	MRPS36	11.00642416	179.2425312	16.28526473	4.025495
POLR2E	358.8094277	780.0432575	2.173976482	1.120336	HMGB3P5	0.829826533	0	547.0328046	9.095484	ENSG000002	12.10706658	196.6688884	16.24414032	4.021847
ENSG000002	64.93790256	141.1189369	2.173136663	1.119779	ENSG000001	0.829826533	0	547.0328046	9.095484	H4C3	114.4668113	1858.811435	16.23886796	4.021379
CPLANE1	5002.419782	10863.9358	2.171736133	1.118849	ENSG000001	0.829826533	0	547.0328046	9.095484	FRMPD2	27.51606041	446.446675	16.22494893	4.020142
FA2H	22.01284833	47.78042745	2.170569966	1.118074	MTCO3P11	0.829826533	0	547.0328046	9.095484	GPR19	4.402569665	71.36508187	16.20986998	4.018801
RPS27AP16	22.01284833	47.78042745	2.170569966	1.118074	HEY2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	35.68254093	16.20986998	4.018801
UBR4	10616.79675	23034.61072	2.169638477	1.117455	KCNH7-AS1	0.829826533	0	547.0328046	9.095484	MCM4	428.1498999	6933.200686	16.19339555	4.017334
PTPA	369.8158519	802.2667121	2.1693681	1.117275	ENSG000000	0.829826533	0	547.0328046	9.095484	LRP4	298.2740948	4769.842914	15.99147561	3.999231
EFNA4	59.43469048	128.8960368	2.168700397	1.116831	LINC02631	0.829826533	0	547.0328046	9.095484	GALNT13	39.62312699	632.3278184	15.95855417	3.996258
MSH4	29.71734524	64.44801842	2.168700397	1.116831	ENSG000000	0.829826533	0	547.0328046	9.095484	CFAP46	13.207709	210.7759395	15.95855417	3.996258
SRGAP3	606.4539714	1314.517341	2.167546761	1.116063	ENSG000000	0.829826533	0	547.0328046	9.095484	CENPH	8.80513933	140.2406841	15.92713969	3.993415
PPDPF	1221.713082	2647.924619	2.167386646	1.115957	ENSG000000	0.829826533	0	547.0328046	9.095484	COL21A1	194.8137077	3091.933663	15.87123257	3.988342
IFI6	239.9400468	520.0288383	2.167328236	1.115918	NFIA-AS1	0.829826533	0	547.0328046	9.095484	SCG2	176.1027866	2794.025938	15.86588146	3.987856
LGMN	1579.421867	3420.189667	2.165469364	1.11468	PPIAP13	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	52.2790716	15.83289626	3.984853
NISCH	1897.507526	4106.894415	2.164362649	1.113942	MTCO1P18	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	34.8527144	15.83289626	3.984853
NUS1P1	15.40899383	33.33518194	2.163358771	1.113273	PRKCQ-AS1	0.829826533	0	547.0328046	9.095484	TLX1	1.100642416	17.4263572	15.83289626	3.984853
RPH3A	7.704496914	16.66759097	2.163358771	1.113273	LINC02773	0.829826533	0	547.0328046	9.095484	LDHBP2	1.100642416	17.4263572	15.83289626	3.984853
PLK5	7.704496914	16.66759097	2.163358771	1.113273	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	17.4263572	15.83289626	3.984853
HPDL	7.704496914	16.66759097	2.163358771	1.113273	ATP6V0E1P	0.829826533	0	547.0328046	9.095484	GATD1-DT	1.100642416	17.4263572	15.83289626	3.984853
ENSG000002	7.704496914	16.66759097	2.163358771	1.113273	RPL36AP24	0.829826533	0	547.0328046	9.095484	SINHCAFP2	1.100642416	17.4263572	15.83289626	3.984853
ZNF79	132.07709	285.571392	2.162156905	1.112471	LINC01685	0.829826533	0	547.0328046	9.095484	DCTN6-DT	1.100642416	17.4263572	15.83289626	3.984853
ANAPC5	1307.563191	2825.712256	2.161052159	1.111734	ENSG000000	0.829826533	0	547.0328046	9.095484	FOXM1	126.5738779	1993.243333	15.74766742	3.977066
LANCL1	446.860821	964.4979309	2.158385532	1.109953	LINC01625	0.829826533	0	547.0328046	9.095484	ESPL1	7.704496914	121.1546739	15.72518949	3.975005
GNG7	63.83726015	137.7854187	2.158385532	1.109953	LINC01410	0.829826533	0	547.0328046	9.095484	ABCC8	28.61670282	449.7659811	15.71690435	3.974245
PAFAH1B3	119.9700234	258.9032464	2.15806615	1.109739	MID1IP1-AS	0.829826533	0	547.0328046	9.095484	CEP152	222.3297681	3492.739879	15.70972663	3.973586
MAST2	2004.26984	4324.684271	2.157735543	1.109518	ENSG000001	0.829826533	0	547.0328046	9.095484	SYN1	5.503212081	86.30195947	15.68210678	3.971047
NADK	272.9593192	588.9215477	2.15754329	1.10939	ARPC3P2	0.829826533	0	547.0328046	9.095484	ASPM	631.768747	9769.547777	15.46380353	3.950823
SH3TC1	121.0706658	261.1255919	2.156803138	1.108895	ENSG000002	0.829826533	0	547.0328046	9.095484	FOLR1	4.402569665	68.04577574	15.45592254	3.950088
SLC2A3P2	24.21413316	52.22511838	2.156803138	1.108895	PHACTR3-A	0.829826533	0	547.0328046	9.095484	DHRS1	2.201284833	34.02288787	15.45592254	3.950088
VSIG10	202.5182046	436.6908835	2.15630434	1.108561	ENSG000002	0.829826533	0	547.0328046	9.095484	CAMK1D	151.8886534	2347.579263	15.45592254	3.950088
URM1	89.15203572	192.2328825	2.156236602	1.108515	ENSG000002	0.829826533	0	547.0328046	9.095484	CLCNKB	9.905781747	151.8582556	15.33026464	3.938311
DDX39A	146.3854414	315.5730557	2.155768038	1.108202	RDXP3	0.829826533	0	547.0328046	9.095484	EPIC1	9.905781747	151.8582556	15.33026464	3.938311
TMEM134	122.1713082	263.3479374	2.155562883	1.108065	ENSG000000	0.829826533	0	547.0328046	9.095484	DOK6	64.93790256	992.4725339	15.28340915	3.933894
RAB6B	138.6809445	298.9054648	2.155346331	1.10792	RNA5SP233	0.829826533	0	547.0328046	9.095484	CCDC102B	57.23340565	873.8073396	15.26743568	3.932386
SEPSECS	155.1905807	334.4629922	2.155175853	1.107806	RNU7-87P	0.829826533	0	547.0328046	9.095484	TSPEAR	4.402569665	67.2159492	15.26743568	3.932386
GNB1	1700.492533	3664.647668	2.155050726	1.107722	SNORD105E	0.829826533	0	547.0328046	9.095484	KIF26A	46.22698148	705.3525534	15.25846012	3.931537
VDAC2	392.9293426	846.7136214	2.154875011	1.107604	RNU7-93P	0.829826533	0	547.0328046	9.095484	CDKN2D	18.71092108	283.8006744	15.16764852	3.922926
SGPL1	975.1691808	2101.227635	2.15473138	1.107508	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF14	122.1713082	1852.172822	15.16045665	3.922241
PLXNB1	1855.683114	3997.999488	2.154462396	1.107328	ENSG000000	0.829826533	0	547.0328046	9.095484	TMEM59L	3.301927249	49.789592	15.07894882	3.914464
TPPP3	16.50963624	35.55752741	2.153743843	1.106847	RNU7-80P	0.829826533	0	547.0328046	9.095484	APLNR	2.201284833	33.19306133	15.07894882	3.914464
ANKRD62	16.50963624	35.55752741	2.153743843	1.106847	RNU7-127P	0.829826533	0	547.0328046	9.095484	RNF186	2.201284833	33.19306133	15.07894882	3.914464
C6orf120	215.7259136	464.4702017	2.153057062	1.106387	Y_RNA.113	0.829826533	0	547.0328046	9.095484	MIR3681HG	1.100642416	16.59653067	15.07894882	3.914464

ZNF585B	573.4346989	1234.512905	2.15283956	1.106241	RNU7-46P	0.829826533	0	547.0328046	9.095484	SLC25A5-AS	1.100642416	16.59653067	15.07894882	3.914464
SPTBN1	10383.46056	22335.68307	2.151082768	1.105063	SCARNA18	0.829826533	0	547.0328046	9.095484	DNAJC9-AS1	1.100642416	16.59653067	15.07894882	3.914464
HSD17B1-AS	144.1841565	310.0171921	2.150147419	1.104436	U8.1	0.829826533	0	547.0328046	9.095484	LINC01484	1.100642416	16.59653067	15.07894882	3.914464
REEP4	59.43469048	127.7848641	2.150004704	1.10434	ENSG000002	0.829826533	0	547.0328046	9.095484	STAG1-DT	1.100642416	16.59653067	15.07894882	3.914464
MAN1B1	903.6274238	1942.329935	2.149480951	1.103988	RNU7-133P	0.829826533	0	547.0328046	9.095484	ST8SIA5-DT	1.100642416	16.59653067	15.07894882	3.914464
PALD1	112.2655265	241.1244827	2.147805211	1.102863	RNU7-187P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	16.59653067	15.07894882	3.914464
TJP1	217.9271984	467.8037199	2.146605487	1.102057	RNU7-195P	0.829826533	0	547.0328046	9.095484	RRM2	148.5867262	2239.701814	15.07336403	3.91393
FLAD1	183.8072835	394.4663197	2.146086445	1.101708	LINC02023	0.829826533	0	547.0328046	9.095484	CENPF	462.2698148	6933.200686	14.99816874	3.906714
UHRF1	44.02569665	94.44968217	2.145330781	1.1012	RPL34P31	0.829826533	0	547.0328046	9.095484	MKI67	1654.265552	24766.17289	14.97109872	3.904108
CNBD2	35.22055732	75.55974574	2.145330781	1.1012	RBM43P1	0.829826533	0	547.0328046	9.095484	CLDN11	19.81156349	295.4182459	14.91140495	3.898344
XIRP1	8.80513933	18.88993643	2.145330781	1.1012	RN7SL184P	0.829826533	0	547.0328046	9.095484	NEK2	69.34047223	1032.304208	14.88747011	3.896027
KCNK9	8.80513933	18.88993643	2.145330781	1.1012	ENSG000002	0.829826533	0	547.0328046	9.095484	NCAN	7.704496914	114.5160616	14.86353527	3.893705
ADRA1B	8.80513933	18.88993643	2.145330781	1.1012	MORC1-AS1	0.829826533	0	547.0328046	9.095484	MBIP	304.8779493	4492.680852	14.735998	3.881273
ATP2A1-AS1	8.80513933	18.88993643	2.145330781	1.1012	RN7SL658P	0.829826533	0	547.0328046	9.095484	BMP2	11.00642416	161.816174	14.7019751	3.877938
H4C3	114.4668113	245.5691736	2.145330781	1.1012	VPS51P4	0.829826533	0	547.0328046	9.095484	CELF4	8.80513933	129.4529392	14.7019751	3.877938
ATP5MC3	363.2119974	778.9320847	2.144565957	1.100686	GM2AP2	0.829826533	0	547.0328046	9.095484	CDK5R2	6.603854498	97.0897044	14.7019751	3.877938
ETNK1	471.0749542	1010.056013	2.14415138	1.100407	RPL21P97	0.829826533	0	547.0328046	9.095484	YWHAZP3	2.201284833	32.3632348	14.7019751	3.877938
DMAC2L	115.5674537	247.7915191	2.144128915	1.100392	ENSG000002	0.829826533	0	547.0328046	9.095484	CNTFR	23.11349074	339.3990521	14.68402397	3.876175
TMTC1	347.8030036	745.5969028	2.143733364	1.100125	ENSG000002	0.829826533	0	547.0328046	9.095484	RIMS2	244.3426164	3570.743573	14.61367495	3.869247
TMEM161A	160.6937928	344.4635467	2.143602069	1.100037	RPL32P34	0.829826533	0	547.0328046	9.095484	ERBB4	37.42184215	546.8556855	14.6132754	3.869208
HSD17B10	197.0149925	422.2456379	2.143215765	1.099777	RPL21P45	0.829826533	0	547.0328046	9.095484	AMPH	19.81156349	285.4603275	14.40877332	3.848876
DYNC1LI1	342.2997915	733.3740027	2.142490358	1.099289	HOXB-AS2	0.829826533	0	547.0328046	9.095484	PLK4	97.95717505	1410.705107	14.40124326	3.848121
PLEKHN1	45.12633907	96.67202764	2.142252831	1.099129	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF730	25.31477557	364.2938481	14.39056203	3.847051
IGHMBP2	289.4689555	620.0343841	2.141971954	1.09894	HMGN1P7	0.829826533	0	547.0328046	9.095484	H2BC11	152.9892959	2192.401701	14.33042546	3.84101
ZDHHC1	72.64239948	155.5641824	2.141506662	1.098626	ENSG000002	0.829826533	0	547.0328046	9.095484	HPCA	2.201284833	31.53340827	14.32500138	3.840463
SERAC1	309.280519	662.2589479	2.141288918	1.098479	RPL9P31	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	31.53340827	14.32500138	3.840463
DYNC1I2P1	55.03212081	117.7843095	2.140282944	1.097802	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000001	1.100642416	15.76670413	14.32500138	3.840463
ZC3H11C	27.51606041	58.89215477	2.140282944	1.097802	RPL7AP67	0.829826533	0	547.0328046	9.095484	ZACN	1.100642416	15.76670413	14.32500138	3.840463
PSMB7	523.9057902	1121.173286	2.140028431	1.09763	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
NLRX1	111.164884	237.7909645	2.139083458	1.096993	RN7SL795P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
CPA6	186.0085684	397.7998379	2.138610288	1.096674	CDRT15P5	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
SAXO1	18.71092108	40.00221833	2.137907491	1.096199	RN7SL213P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
DPYSL5	18.71092108	40.00221833	2.137907491	1.096199	RN7SL754P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
ZFYVE26	1340.582463	2864.603302	2.136834832	1.095475	RNF7P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
TCFL5	228.9336226	488.9160018	2.135623402	1.094657	RN7SL606P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	15.76670413	14.32500138	3.840463
NECAB3	238.8394043	510.0282837	2.135444464	1.094536	TPT1P11	0.829826533	0	547.0328046	9.095484	GRM2	7.704496914	110.3669289	14.32500138	3.840463
USP35	152.9892959	326.684783	2.135344053	1.094469	RN7SL254P	0.829826533	0	547.0328046	9.095484	E2F8	25.31477557	361.8043685	14.29222106	3.837158
LRRC37A3	287.2676707	613.3673478	2.135177085	1.094356	OR9A3P	0.829826533	0	547.0328046	9.095484	TONSL	42.92505424	613.2418082	14.28633741	3.836564
EXTL3	297.1734524	634.4796297	2.13504815	1.094269	RN7SL351P	0.829826533	0	547.0328046	9.095484	KCNC1	8.80513933	125.3038065	14.23075795	3.830941
MTCH1	1094.038562	2334.573909	2.13390459	1.093496	ENSG000002	0.829826533	0	547.0328046	9.095484	AURKB	24.21413316	344.3780113	14.22219037	3.830072
TG	96.85653263	206.678128	2.133858424	1.093464	RN7SL587P	0.829826533	0	547.0328046	9.095484	FANCA	91.35332055	1292.869739	14.152411	3.822976
CDH26	48.42826632	103.339064	2.133858424	1.093464	B4GALT4-A	0.829826533	0	547.0328046	9.095484	SSUH2	3.301927249	46.47028587	14.07368557	3.814928
COQ6	224.5310529	478.9154472	2.132958631	1.092856	RPL29P18	0.829826533	0	547.0328046	9.095484	RAB3C	6.603854498	92.94057174	14.07368557	3.814928
JKAMP	626.2655349	1335.629623	2.132689009	1.092674	RPL36AP45	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	30.70358173	13.94802766	3.801989
GADD45G	19.81156349	42.22456379	2.131309011	1.09174	RPS4XP13	0.829826533	0	547.0328046	9.095484	CDKN3	58.33404806	813.2300027	13.94091495	3.801253
CACNG5	9.905781747	21.1122819	2.131309011	1.09174	SEC62-AS1	0.829826533	0	547.0328046	9.095484	SLFN13	90.25267814	1256.357372	13.92044422	3.799133
SIT1	9.905781747	21.1122819	2.131309011	1.09174	RPL5P15	0.829826533	0	547.0328046	9.095484	SMC2	387.4261305	5391.382987	13.91589922	3.798662
GPAT2	9.905781747	21.1122819	2.131309011	1.09174	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF18A	44.02569665	611.5821551	13.8914816	3.796129
DHRS7B	139.7815869	297.794292	2.13042575	1.091142	REPIN1-AS1	0.829826533	0	547.0328046	9.095484	CIBAR1P1	5.503212081	76.34404107	13.87263292	3.79417
LSM4	180.5053563	384.4657651	2.129941033	1.090813	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPI	39.62312699	549.3451651	13.86425572	3.793298
FAM171B	242.1413316	515.5841474	2.129269481	1.090359	RPL36P11	0.829826533	0	547.0328046	9.095484	NCAPG	62.73661773	869.658207	13.8620512	3.793069
ENSG000002	60.5353329	128.8960368	2.129269481	1.090359	KCNAB1-AS	0.829826533	0	547.0328046	9.095484	PTF1A	3.301927249	45.64045934	13.82236975	3.788933
WASF3	323.5888704	688.9270935	2.129019742	1.090189	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRC10B	3.301927249	45.64045934	13.82236975	3.788933
TRAPPC6A	50.62955115	107.7837549	2.128870442	1.090088	ENSG000002	0.829826533	0	547.0328046	9.095484	DIAPH3	55.03212081	760.1211046	13.81231712	3.787883
SAMD12	122.1713082	260.0144192	2.128277277	1.089686	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPM	11.00642416	151.8582556	13.79723817	3.786308
SNED1	1188.69381	2529.029137	2.127569872	1.089207	LINC01168	0.829826533	0	547.0328046	9.095484	KCNJ12	20.91220591	287.1199805	13.72977972	3.779237
PARS2	92.45396297	196.6775735	2.127302791	1.089025	ENSG000002	0.829826533	0	547.0328046	9.095484	MMP13	19.81156349	269.6936233	13.61293991	3.766907
RAVER1	342.2997915	727.8181391	2.12625937	1.088318	RN7SL382P	0.829826533	0	547.0328046	9.095484	DEPDC1	68.23982981	928.5758908	13.60753527	3.766334
IMPA1	427.0492575	907.8281216	2.125815947	1.088017	ENSG000002	0.829826533	0	547.0328046	9.095484	DBH-AS1	3.301927249	44.8106328	13.57105394	3.762461
PAQR6	41.82441182	88.89381852	2.125405108	1.087738	LINC00886	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	59.7475104	13.57105394	3.762461
FNDC5	20.91220591	44.44690926	2.125405108	1.087738	ENSG000002	0.829826533	0	547.0328046	9.095484	CDC20P1	2.201284833	29.8737552	13.57105394	3.762461
ZC3H12D	20.91220591	44.44690926	2.125405108	1.087738	MTCO2P6	0.829826533	0	547.0328046	9.095484	ADAP1	1.100642416	14.9368776	13.57105394	3.762461
TXNIP	3590.295562	7629.311974	2.124981591	1.08745	RPL4P1	0.829826533	0	547.0328046	9.095484	FAM131C	1.100642416	14.9368776	13.57105394	3.762461
GCH1	115.5674537	245.5691736	2.124899059	1.087394	ENSG000002	0.829826533	0	547.0328046	9.095484	H3C14	1.100642416	14.9368776	13.57105394	3.762461
ATP5MC1	169.4989321	360.019965	2.124024975	1.086801	GPR199P	0.829826533	0	547.0328046	9.095484	DENND3-AS	1.100642416	14.9368776	13.57105394	3.762461
GREB1	2383.991474	5058.058274	2.121676327	1.085205	RN7SL709P	0.829826533	0	547.0328046	9.095484	SLC28A2-AS	1.100642416	14.9368776	13.57105394	3.762461
COL22A1	86.95075089	184.4546734	2.121369529	1.084996	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	14.9368776	13.57105394	3.762461
PRMT7	241.0406892	511.1394565	2.120552585	1.08444	ENSG000002	0.829826533	0	547.0328046	9.095484	MGAT5B	16.50963624	223.2233375	13.52079078	3.757108
RAPGEF4	110.0642416	233.3462736	2.120091595	1.084127	RN7SL110P	0.829826533	0	547.0328046	9.095484	MAST1	23.11349074	310.3551235	13.4274449	3.747113
ERCC5	11.00642416	23.33462736	2.120091595	1.084127	HMGN1P8	0.829826533	0	547.0328046	9.095484	NRGN	4.402569665	58.91768387	13.38256708	3.742283
ABO	11.00642416	23.33462736	2.120091595	1.084127	RPL32P32	0.829826533	0	547.0328046	9.095484	PABPC5	33.01927249	440.6378892	13.34486971	3.738213
ACTRT3	11.00642416	23.33462736	2.120091595	1.084127	ENSG000002	0.829826533	0	547.0328046	9.095484	HJURP	116.6680961	1555.92475	13.33633445	3.73729
SMC3P1	11.00642416	23.33462736	2.120091595	1.084127	IQCJ-SCHIP	0.829826533	0	547.0328046	9.095484	ARHGEF39	13.207709	175.9232251	13.31973813	3.735494
SETP14	11.00642416	23.33462736	2.120091595	1.084127	ENSG000002	0.829826533	0	547.0328046	9.095484	ESRRB	5.503212081	73.02473494	13.26947496	3.730039
DHTKD1	628.4668197	1332.296105	2.119914788	1.084006	ENSG000002	0.829826533	0	547.0328046	9.095484	NLRP14	5.503212081	73.02473494	13.26947496	3.730039
DCTPP1	89.15203572	188.8993643	2.118845216	1.083278	ENPP7P4	0.829826533	0	547.0328046	9.095484	AURKA	67.13918739	886.2547376	13.20026012	3.722494
SMARCAL1	336.7965794	713.3728936	2.118112051	1.082779	ACTG1P13	0.829826533	0	547.0328046	9.095484	S100A14	6.603854498	87.131786	13.19408022	3.721819
SIGLEC9	34.11991491	72.22622754	2.116834926	1.081909	RN7SL205P	0.829826533	0	547.0328046	9.095484	S100Z	2.201284833	29.04392867	13.19408022	3.721819
XIRP2	34.11991491	72.22622754	2.116834926	1.081909	FBRSL1P1	0.829826533	0	547.0328046	9.095484	DNAH2	71.54175706	942.6829419	13.17668143	3.719915
MEST	261.9528951	554.475193	2.116698091	1.081816	ENSG000002	0.829826533	0	547.0328046	9.095484	NELL1	208.0214167	2731.788948	13.13224855	3.715042
DDX49	148.5867262	314.461883	2.116352456	1.08158	ENSG000002	0.829826533	0	547.0328046	9.095484	TYRP1	11.00642416	144.3898168	13.11868548	3.713551
FBXL16	23.11349074	48.89160018	2.115284131	1.080851	GUSBP2	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	144.3898168	13.11868548	3.713551
KIF18B	23.11349074	48.89160018	2.115284131	1.080851	RN7SL482P	0.829826533	0	547.0328046	9.095484	TIGD3	5.503212081	72.1949084	13.11868548	3.713551
SH2B1	545.9186385	1154.508468	2.114799508	1.080521	RN7SL316P	0.829826533	0	547.0328046	9.095484	RECQL4	62.73661773	822.3580946	13.10810376	3.712387
CDC7	140.8822293	297.794292	2.113781799	1.079826	ENSG000002	0.829826533	0	547.0328046	9.095484	IGFN1	108.9635992	1424.812158	13.07603794	3.708854
GALNT3	2211.190614	4673.592508	2.113609057	1.079709	SUMO1P1	0.829826533	0	547.0328046	9.095484	CELSR3	112.2655265	1467.963138	13.07581395	3.708829
CYSTM1	82.54818122	174.4541188	2.113361146	1.079539	RN7SL83P	0.829826533	0	547.0328046	9.095484	SOX2	33.01927249	431.5097974	13.06842231	3.708013
PARD6G	71.54175706	151.1194915	2.112325692	1.078832	CBLL1-AS1	0.829826533	0	547.0328046	9.095484	VSTM2B	3.301927249	43.15097974	13.06842231	3.708013
SYMPK	1376.903663	2907.939038	2.111940811	1.078569	RPS26P45	0.829826533	0	547.0328046	9.095484	RN7SL5P	74.84368431	977.5356563	13.06103067	3.707197
SLC44A2	851.8972302	1798.988652	2.111743751	1.078435	ENSG000002	0.829826533	0	547.0328046	9.095484	CYP4F3	7.704496914	100.4090105	13.03252005	3.704044
MXRA8	445.7601786	941.1633035	2.111366938	1.078177	RN7SL390P	0.829826533	0	547.0328046	9.095484	MMP9	46.22698148	599.9645836	12.97866667	3.69807
ZNF771	36.32119974	76.67091847	2.110913709	1.077868	MTND4P16	0.829826533	0	547.0328046	9.095484	MARCHF3	5.503212081	71.36508187	12.96789599	3.696873
VWCE	24.21413316	51.11394565	2.110913709	1.077868	RPS15AP34	0.829826533	0	547.0328046	9.095484	SLC27A3	2.201284833	28.21410213	12.8171065	3.679999
COPS8P2	12.10706658	25.55697282	2.110913709	1.077868	RN7SL434P	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	28.21410213	12.8171065	3.679999
EIF5AP4	12.10706658	25.55697282	2.110913709	1.077868	WDR70P1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	28.21410213	12.8171065	3.679999
THAP11	96.85653263	204.4557826	2.110913709	1.077868	DENND6A-I	0.829826533	0	547.0328046	9.095484	NRSN1	1.100642416	14.10705107	12.8171065	3.679999
XRCC1	220.1284833	464.4702017	2.109995921	1.07724	RN7SL517P	0.829826533	0	547.0328046	9.095484	NOL8P1	1.100642416	14.10705107	12.8171065	3.679999
FBLL1	37.42184215	78.89326393	2.108214331	1.076022	HNRNPA1P	0.829826533	0	547.0328046	9.095484	MYL12-AS1	1.100642416	14.10705107	12.8171065	3.679999
CHFR	387.4261305	816.7119576	2.10804562	1.075906	RPL17P31	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	14.10705107	12.8171065	3.679999
DNER	25.31477557	53.33629111	2.106923324	1.075138	RN7SL655P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	14.10705107	12.8171065	3.679999
ZNF222	75.94432672	160.0088733	2.106923324	1.075138	RN7SL135P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	14.10705107	12.8171065	3.679999

SHARPIN	369.8158519	778.9320847	2.106270136	1.07469	RPL7AP2	0.829826533	0	547.0328046	9.095484	SINHCAF	6.603854498	84.6423064	12.8171065	3.679999
PERM1	38.52248457	81.11560939	2.105669203	1.074279	DNAJB8-AS	0.829826533	0	547.0328046	9.095484	SATL1	3.301927249	42.3211532	12.8171065	3.679999
PKD1P2	38.52248457	81.11560939	2.105669203	1.074279	MARK2P6	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	97.91953094	12.70939972	3.667824
DGCR6L	143.0835141	301.1278102	2.104559789	1.073518	IGKV1-33	0.829826533	0	547.0328046	9.095484	HMCN2	202.5182046	2570.8026	12.69418029	3.666095
GTPBP2	356.6081429	750.0415937	2.103265471	1.072631	RPL7AP31	0.829826533	0	547.0328046	9.095484	FAM72D	13.207709	167.6249597	12.69144859	3.665785
BYSL	39.62312699	83.33795486	2.103265471	1.072631	LRRC78P	0.829826533	0	547.0328046	9.095484	FAM89A	3.301927249	41.49132667	12.56579069	3.65143
IRX4	13.207709	27.77931829	2.103265471	1.072631	RPL11P5	0.829826533	0	547.0328046	9.095484	KCTD9P1	3.301927249	41.49132667	12.56579069	3.65143
CCR10	13.207709	27.77931829	2.103265471	1.072631	LASTR	0.829826533	0	547.0328046	9.095484	GRM4	40.7237694	511.1731446	12.55220605	3.649869
DOLPP1	81.44753881	171.1206006	2.100991671	1.07107	RN7SL745P	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	110.3669289	12.53437621	3.647818
ILDR1	177.203429	372.242865	2.100652719	1.070838	RPS26P35	0.829826533	0	547.0328046	9.095484	ATP8A2	47.3276239	592.4961448	12.51903426	3.646051
CLCN3	1709.297673	3590.199095	2.100394304	1.07066	RN7SL97P	0.829826533	0	547.0328046	9.095484	ASRGL1	82.54818122	1031.474381	12.49542226	3.643328
FUT11	315.8843735	663.3701207	2.100040953	1.070417	RPS29P1	0.829826533	0	547.0328046	9.095484	H2AC14	177.203429	2212.317538	12.48462036	3.64208
CSRNP1	110.0642416	231.1239281	2.099900247	1.070321	ENSG000002	0.829826533	0	547.0328046	9.095484	POU2AF1	29.71734524	370.1026339	12.45409477	3.638548
INTS5	252.0471133	528.9182202	2.098489497	1.069351	PRDX5P1	0.829826533	0	547.0328046	9.095484	ATAD2	872.8094361	10868.23811	12.4520172	3.638308
PAK1	440.2569665	923.3845398	2.097376328	1.068586	ENSG000002	0.829826533	0	547.0328046	9.095484	H3C1	37.42184215	464.7028587	12.41795785	3.634356
PDK4	214.6252712	450.0249562	2.096793885	1.068185	DBIL5P2	0.829826533	0	547.0328046	9.095484	NCAM1	140.8822293	1743.465547	12.37534042	3.629396
EFNA2	14.30835141	30.00166375	2.096793885	1.068185	CFAP20DC-	0.829826533	0	547.0328046	9.095484	SYP	22.01284833	272.1831029	12.36473803	3.62816
FHIP1B	417.1434758	874.4929396	2.096384075	1.067903	ENSG000002	0.829826533	0	547.0328046	9.095484	NCAPH	74.84368431	923.5969316	12.34034562	3.625311
DALRD3	86.95075089	182.232328	2.09581086	1.067509	IGKV2D-28	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	40.66150013	12.31447487	3.622283
CLIC2	44.02569665	92.22733671	2.094852409	1.066849	SERPINB10	0.829826533	0	547.0328046	9.095484	FAM178B	7.704496914	94.6002248	12.27857261	3.618071
ARSI	29.71734524	62.22567296	2.093917625	1.066205	RN7SL144P	0.829826533	0	547.0328046	9.095484	SLITRK3	9.905781747	121.1546739	12.23070293	3.612435
TCP11L2	242.1413316	506.6947655	2.092557938	1.065268	DCAF13P1	0.829826533	0	547.0328046	9.095484	LMNB1	155.1905807	1896.153629	12.21822626	3.610963
SIN3B	1021.396162	2136.785163	2.09202388	1.064899	ENSG000002	0.829826533	0	547.0328046	9.095484	MYCL	60.5353329	739.3754412	12.21394855	3.610458
TMEM201	122.1713082	255.5697282	2.091896469	1.064811	RN7SL164P	0.829826533	0	547.0328046	9.095484	CCNB1	64.93790256	792.4843394	12.20372553	3.60925
TPI1P1	15.40899383	32.22400921	2.091246812	1.064363	RN7SL581P	0.829826533	0	547.0328046	9.095484	SKA3	33.01927249	401.6360421	12.16368538	3.604509
SDF2L1	77.04496914	161.1200461	2.091246812	1.064363	ENSG000002	0.829826533	0	547.0328046	9.095484	FAR2	68.23982981	829.8265334	12.1604426	3.604124
FANK1	170.5995745	356.6864468	2.090781573	1.064042	ENSG000002	0.829826533	0	547.0328046	9.095484	PLK1	108.9635992	1322.743494	12.13931537	3.601615
QSOX2	221.2291257	462.2478563	2.089452982	1.063125	ENSG000002	0.829826533	0	547.0328046	9.095484	FEN1	80.34689639	971.7268706	12.0941432	3.596237
BSG	1197.498949	2501.249818	2.088728195	1.062625	RN7SL516P	0.829826533	0	547.0328046	9.095484	BTNL9	8.80513933	106.2177963	12.06315906	3.592536
RNASEH2C	81.44753881	170.0094279	2.087348868	1.061672	RPS27AP9	0.829826533	0	547.0328046	9.095484	TEX55	4.402569665	53.10889814	12.06315906	3.592536
MICALL2	361.0107125	753.3751119	2.086849741	1.061327	NMTRQ-TT(	0.829826533	0	547.0328046	9.095484	SYCE2	2.201284833	26.55444907	12.06315906	3.592536
PRMT1	610.856541	1274.515123	2.086439348	1.061043	ENSG000002	0.829826533	0	547.0328046	9.095484	GSTA2	2.201284833	26.55444907	12.06315906	3.592536
ASB6	148.5867262	310.0171921	2.086439348	1.061043	RPS26P21	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	26.55444907	12.06315906	3.592536
VSIG1	16.50963624	34.44635467	2.086439348	1.061043	KRT8P35	0.829826533	0	547.0328046	9.095484	FAM167A	1.100642416	13.27722453	12.06315906	3.592536
TUB	99.05781747	206.678128	2.086439348	1.061043	RPL13AP14	0.829826533	0	547.0328046	9.095484	SMCO2	1.100642416	13.27722453	12.06315906	3.592536
BARX2	34.11991491	71.11505481	2.084268235	1.059541	RN7SL812P	0.829826533	0	547.0328046	9.095484	HES7	1.100642416	13.27722453	12.06315906	3.592536
ACRBP	69.34047223	144.4524551	2.083234372	1.058825	AADACL2-/	0.829826533	0	547.0328046	9.095484	RNU5D-1	1.100642416	13.27722453	12.06315906	3.592536
PKD1L1	52.83083598	110.0061004	2.082232817	1.058131	RN7SL384P	0.829826533	0	547.0328046	9.095484	C21orf62-AS1	1.100642416	13.27722453	12.06315906	3.592536
PSMC3	427.0492575	888.9381852	2.081582322	1.057681	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	13.27722453	12.06315906	3.592536
CCNQ	89.15203572	185.5658462	2.081453829	1.057592	RN7SL332P	0.829826533	0	547.0328046	9.095484	TEX21P	1.100642416	13.27722453	12.06315906	3.592536
DCAF12	286.1670282	595.5885841	2.081262079	1.057459	RN7SL239P	0.829826533	0	547.0328046	9.095484	SMAD9-IT1	1.100642416	13.27722453	12.06315906	3.592536
PIM1	91.35332055	190.0105371	2.079952167	1.05655	RN7SL266P	0.829826533	0	547.0328046	9.095484	DRG1P2	1.100642416	13.27722453	12.06315906	3.592536
RPS6KA4	202.5182046	421.1344652	2.079489427	1.056229	RPL31P58	0.829826533	0	547.0328046	9.095484	SLIT2-IT1	1.100642416	13.27722453	12.06315906	3.592536
ADGRF5P1	18.71092108	38.8910456	2.078521172	1.055557	RN7SL849P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	13.27722453	12.06315906	3.592536
CST3	2378.488262	4943.607482	2.07846621	1.055519	RN7SL643P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	13.27722453	12.06315906	3.592536
DOK3	75.94432672	157.7865279	2.0776605	1.05496	HNRNPA1P	0.829826533	0	547.0328046	9.095484	MALT1-AS1	1.100642416	13.27722453	12.06315906	3.592536
DDX28	75.94432672	157.7865279	2.0776605	1.05496	PCDHAC2	0.829826533	0	547.0328046	9.095484	CEP83-DT	1.100642416	13.27722453	12.06315906	3.592536
TMEM164	133.1777324	276.6820101	2.07753958	1.054876	RN7SL571P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	13.27722453	12.06315906	3.592536
ATP5F1D	155.1905807	322.2400921	2.076415274	1.054095	VSIG8	0.829826533	0	547.0328046	9.095484	PLCXD1	1.100642416	13.27722453	12.06315906	3.592536
URB1	1675.177758	3477.970649	2.076180055	1.053932	POM121L6P	0.829826533	0	547.0328046	9.095484	ZNF711	91.35332055	1095.371024	11.99048943	3.583819
CRAMP1	118.869381	246.6803464	2.075221932	1.053266	FGF14-IT1	0.829826533	0	547.0328046	9.095484	ADGRB2	46.22698148	552.6644712	11.95545228	3.579597
CIAO2B	118.869381	246.6803464	2.075221932	1.053266	PTPRVP	0.829826533	0	547.0328046	9.095484	CDC20	22.01284833	263.0550111	11.95006694	3.578947
AKR1B1	59.43469048	123.3401732	2.075221932	1.053266	RPS27P28	0.829826533	0	547.0328046	9.095484	WDHD1	137.580302	1641.396883	11.93046431	3.576578
ABCD1	139.7815869	290.0160829	2.074780301	1.052959	ENSG000002	0.829826533	0	547.0328046	9.095484	CDKAL1	496.3897298	5892.598213	11.87091082	3.569359
ATPSCKMT	181.6059987	376.687556	2.074202167	1.052557	RPL15P12	0.829826533	0	547.0328046	9.095484	KPNA2	423.7473303	5027.089139	11.86341194	3.568447
FBLN2	945.4518356	1960.108698	2.073197835	1.051858	ENSG000002	0.829826533	0	547.0328046	9.095484	ERCC6L	51.73019357	611.5821551	11.82253753	3.563468
GNPTG	432.5524696	896.7163943	2.073081204	1.051777	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC8A3	37.42184215	439.8080627	11.75271011	3.554922
TIMM29	41.82441182	86.67147305	2.07226998	1.051212	ENSG000002	0.829826533	0	547.0328046	9.095484	HAS3	12.10706658	141.9003372	11.72045568	3.550957
KCNJ12	20.91220591	43.33573653	2.07226998	1.051212	RPL12P40	0.829826533	0	547.0328046	9.095484	CCNB1IP1	2.201284833	25.72462253	11.68618534	3.546732
PIEZO1	2155.057851	4465.803208	2.072242843	1.051193	RPL21P115	0.829826533	0	547.0328046	9.095484	TEX101	2.201284833	25.72462253	11.68618534	3.546732
RBM47	1398.916511	2897.938484	2.071559282	1.050717	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRTM1	2.201284833	25.72462253	11.68618534	3.546732
RTN1	276.2612465	572.2539567	2.071423205	1.050622	SMIM34	0.829826533	0	547.0328046	9.095484	LINC01446	2.201284833	25.72462253	11.68618534	3.546732
ZNF799	149.6873686	310.0171921	2.071097882	1.050396	RN7SL526P	0.829826533	0	547.0328046	9.095484	URB1-AS1	2.201284833	25.72462253	11.68618534	3.546732
MKNK1	534.9122143	1107.839213	2.071067333	1.050374	ENSG000002	0.829826533	0	547.0328046	9.095484	SPAG5	143.0835141	1670.440812	11.67458615	3.5453
POLR2I	64.93790256	134.4519005	2.070468789	1.049957	RN7SL834P	0.829826533	0	547.0328046	9.095484	PARPBP	45.12633907	525.2801956	11.64021293	3.541046
GRAMD4	173.9015018	360.019965	2.070252191	1.049807	RPL29P3	0.829826533	0	547.0328046	9.095484	AUNIP	19.81156349	229.0321232	11.56052743	3.531135
SNAI1	22.01284833	45.55808199	2.069613224	1.049361	RPL12P6	0.829826533	0	547.0328046	9.095484	VWA5B2	14.30835141	165.1354801	11.54119544	3.528721
CD14	375.319064	776.7097393	2.069465193	1.049258	RPL5P17	0.829826533	0	547.0328046	9.095484	PAK1IP1	11.00642416	126.9634596	11.53539585	3.527996
RAMP2	133.1777324	275.5708374	2.069196047	1.04907	RN7SL430P	0.829826533	0	547.0328046	9.095484	ANKUB1	7.704496914	88.79143907	11.52462517	3.526648
FBXW5	826.5824546	1710.094834	2.06887386	1.048846	ENSG000002	0.829826533	0	547.0328046	9.095484	FAAP24	4.402569665	50.61941854	11.49769848	3.523273
ZDHHC24	67.13918739	138.8965914	2.06878571	1.048784	RN7SL308P	0.829826533	0	547.0328046	9.095484	DDIAS	40.7237694	468.0221648	11.49260424	3.522634
MRPS6	45.12633907	93.33850944	2.068382044	1.048503	RN7SL143P	0.829826533	0	547.0328046	9.095484	H2AC16	165.0963624	1893.664149	11.47005374	3.5198
DHX32	565.730202	1170.064886	2.068238327	1.048402	RPL35P6	0.829826533	0	547.0328046	9.095484	H2BC15	123.2719506	1408.215627	11.42365007	3.513952
RPGRIP1	23.11349074	47.78042745	2.067209492	1.047685	IL12A-AS1	0.829826533	0	547.0328046	9.095484	SGO1	60.5353329	690.4156758	11.40516856	3.511616
GTF2H2C	23.11349074	47.78042745	2.067209492	1.047685	LCE3C	0.829826533	0	547.0328046	9.095484	BRIP1	160.6937928	1825.618373	11.36085185	3.505999
ENSG000002	23.11349074	47.78042745	2.067209492	1.047685	ENSG000002	0.829826533	0	547.0328046	9.095484	LGI3	2.201284833	24.894796	11.30921162	3.499426
RPAP1	232.2355498	480.02662	2.06698165	1.047526	ENSG000002	0.829826533	0	547.0328046	9.095484	LHFPL3	2.201284833	24.894796	11.30921162	3.499426
GALK1	71.54175706	147.7859733	2.065730272	1.046652	RPS23P3	0.829826533	0	547.0328046	9.095484	NKX2-2	1.100642416	12.447398	11.30921162	3.499426
NDST3	24.21413316	50.00277291	2.065024281	1.046159	HMGN1P10	0.829826533	0	547.0328046	9.095484	NMBR	1.100642416	12.447398	11.30921162	3.499426
ENSG000002	24.21413316	50.00277291	2.065024281	1.046159	RPSAP51	0.829826533	0	547.0328046	9.095484	RNA5SP161	1.100642416	12.447398	11.30921162	3.499426
CCSER1	682.3982981	1408.967023	2.06472822	1.045952	EIF4E2P2	0.829826533	0	547.0328046	9.095484	SOGA3	1.100642416	12.447398	11.30921162	3.499426
NAA38	419.3447606	865.6035578	2.064181168	1.04557	CALHM6-AS	0.829826533	0	547.0328046	9.095484	EFHD2-AS1	1.100642416	12.447398	11.30921162	3.499426
EPHA2	172.8008594	356.6864468	2.064147413	1.045546	RN7SL81P	0.829826533	0	547.0328046	9.095484	ACAP2-IT1	1.100642416	12.447398	11.30921162	3.499426
GOLIM4	1555.207734	3209.066848	2.063432928	1.045047	LRRC77P	0.829826533	0	547.0328046	9.095484	MTCO2P12	1.100642416	12.447398	11.30921162	3.499426
SPAG1	150.788011	311.1283648	2.063349484	1.044988	RN7SL395P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
MTUS2	25.31477557	52.22511838	2.063029088	1.044764	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02846	1.100642416	12.447398	11.30921162	3.499426
ZNF564	25.31477557	52.22511838	2.063029088	1.044764	RN7SL636P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
OSBPL10	582.2398382	1201.177723	2.063029088	1.044764	RN7SL359P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
MYO15B	779.2548307	1606.75577	2.061913133	1.043984	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF793-AS1	1.100642416	12.447398	11.30921162	3.499426
TNRC18	3939.199208	8121.561494	2.061729064	1.043855	OR2A1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
SLC35F3	104.5610295	215.5675099	2.061642955	1.043795	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
MAEA	395.1306275	814.4896121	2.061317335	1.043567	PRICKLE2-I	0.829826533	0	547.0328046	9.095484	LINC00581	1.100642416	12.447398	11.30921162	3.499426
PRRC2A	52.83083598	108.8949277	2.061200162	1.043485	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
MPDU1	203.618847	418.9121198	2.057334701	1.040777	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	12.447398	11.30921162	3.499426
IVD	204.7194894	421.1344652	2.057129326	1.040632	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM74B	5.503212081	62.23699	11.30921162	3.499426
AJM1	60.5353329	124.4513459	2.055846395	1.039732	MTHFD2P1	0.829826533	0	547.0328046	9.095484	SERTM1	3.301927249	37.342194	11.30921162	3.499426
CDC42EP4	243.241974	500.0277291	2.05568028	1.039616	RPL10AP1	0.829826533	0	547.0328046	9.095484	LIN7A	26.41541799	297.9077255	11.27779714	3.495413
KRT14	30.81798766	63.33684569	2.055190832	1.039272	RN7SL153P	0.829826533	0	547.0328046	9.095484	SLC36A4	243.241974	2742.576693	11.27509635	3.495068
STON1	30.81798766	63.33684569	2.055190832	1.039272	ENSG000002	0.829826533	0	547.0328046	9.095484	HMGB3	132.07709	1484.559668	11.24009977	3.490583
SPIRE2	61.63597531	126.6736914	2.055190832	1.039272	ENSG000002	0.829826533	0	547.0328046	9.095484	TNFAIP8L1	6.603854498	73.85456147	11.18355371	3.483307
TDRD5	191.5117804	393.3551469	2.053947522	1.038399	BMAL2-AS1	0.829826533	0	547.0328046	9.095484	SHCBP1	40.7237694	453.0852872	11.125819	3.47584

FUZ	63.83726015	131.1183823	2.053947522	1.038399	MRNIP-DT	0.829826533	0	547.0328046	9.095484	OLFM3	4.402569665	48.95976547	11.12072476	3.475179
DGKI	31.91863007	65.55919115	2.053947522	1.038399	ENSG000002	0.829826533	0	547.0328046	9.095484	TCF19	13.207709	146.8792964	11.12072476	3.475179
SDHAF2	31.91863007	65.55919115	2.053947522	1.038399	LINC00461	0.829826533	0	547.0328046	9.095484	RFC4	178.3040714	1981.625762	11.11374376	3.474273
SMU1P1	31.91863007	65.55919115	2.053947522	1.038399	ENSG000002	0.829826533	0	547.0328046	9.095484	HMMR	41.82441182	463.8730322	11.09096367	3.471313
FGD1	166.1970049	341.1300286	2.052564237	1.037427	LINC00682	0.829826533	0	547.0328046	9.095484	TOX3	208.0214167	2304.428283	11.0778415	3.469605
WBP1	34.11991491	70.00388208	2.051701544	1.036821	ALDH1L1-A	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	36.51236747	11.0578958	3.467005
ABCB8	205.8201318	422.2456379	2.05152739	1.036698	MCPH1-DT	0.829826533	0	547.0328046	9.095484	TMPRSS15	8.80513933	97.0897044	11.02648133	3.462901
SLC23A2	1169.982889	2400.1331	2.051425814	1.036627	TTBK2-AS1	0.829826533	0	547.0328046	9.095484	KNL1	203.618847	2243.850946	11.01985882	3.462034
SLC22A17	243.241974	498.9165564	2.051112101	1.036406	ENSG000002	0.829826533	0	547.0328046	9.095484	H3C10	75.94432672	836.4651456	11.01418871	3.461291
GIT1	561.3276323	1151.17495	2.050807556	1.036192	ZBED9-AS1	0.829826533	0	547.0328046	9.095484	KCNK12	7.704496914	84.6423064	10.98609129	3.457606
NPIPB15	105.661672	216.6786826	2.050683835	1.036105	LACTB2-AS	0.829826533	0	547.0328046	9.095484	HSPA6	33.01927249	361.8043685	10.95736948	3.45383
NFKBIE	36.32119974	74.44857301	2.049727805	1.035432	LINC00968	0.829826533	0	547.0328046	9.095484	SLC44A5	39.62312699	433.999277	10.95318088	3.453278
SAMD8	412.7409061	845.6024486	2.04874883	1.034743	KLC1-AS1	0.829826533	0	547.0328046	9.095484	TCERG1L	8.80513933	96.25987787	10.9322379	3.450517
IL12RB1	39.62312699	81.11560939	2.047178392	1.033637	SMARCAD1	0.829826533	0	547.0328046	9.095484	RAD54L	19.81156349	216.5847252	10.9322379	3.450517
EGLN1	200.3169198	410.0227379	2.046870221	1.03342	UBE2D3-AS	0.829826533	0	547.0328046	9.095484	KCNT1	6.603854498	72.1949084	10.9322379	3.450517
CPEB2	165.0963624	337.7965104	2.046056651	1.032846	PICART1	0.829826533	0	547.0328046	9.095484	ALDH3A1	4.402569665	48.12993894	10.9322379	3.450517
SOWAHC	85.85010847	175.5652916	2.045021197	1.032116	LINC00920	0.829826533	0	547.0328046	9.095484	FOXC2	4.402569665	48.12993894	10.9322379	3.450517
KIF2C	42.92505424	87.78264578	2.045021197	1.032116	LY6E-DT	0.829826533	0	547.0328046	9.095484	TNFSF11	2.201284833	24.06496947	10.9322379	3.450517
CTU2	42.92505424	87.78264578	2.045021197	1.032116	MARCOL	0.829826533	0	547.0328046	9.095484	WIF1	2.201284833	24.06496947	10.9322379	3.450517
ECSIT	220.1284833	450.0249562	2.044374038	1.031659	ENSG000002	0.829826533	0	547.0328046	9.095484	MEGF11	2.201284833	24.06496947	10.9322379	3.450517
YARS2	177.203429	362.2423104	2.044217273	1.031549	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	24.06496947	10.9322379	3.450517
ZNF500	133.1777324	272.2373192	2.04416545	1.031512	FLJ12825	0.829826533	0	547.0328046	9.095484	ORC6	26.41541799	287.9498071	10.90082342	3.446365
IRF2BP2	1039.006441	2123.45109	2.043732364	1.031206	MTCYBP44	0.829826533	0	547.0328046	9.095484	KIF23	86.95075089	943.5127684	10.85111697	3.439772
CCN4	46.22698148	94.44968217	2.043172172	1.030811	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	71.36508187	10.80657999	3.433838
CLEC4F	46.22698148	94.44968217	2.043172172	1.030811	POU5F1P7	0.829826533	0	547.0328046	9.095484	DDX11-AS1	3.301927249	35.68254093	10.80657999	3.433838
ABHD6	94.6552478	193.3440553	2.042613165	1.030416	LINC02434	0.829826533	0	547.0328046	9.095484	GPR137C	28.61670282	308.6954704	10.787248	3.431255
B3GNT7	47.3276239	96.67202764	2.042613165	1.030416	ENSG000002	0.829826533	0	547.0328046	9.095484	BSN	171.7002169	1831.427159	10.66642309	3.415005
MCTP1	245.4432588	501.1389019	2.041770893	1.029821	ENSG000002	0.829826533	0	547.0328046	9.095484	ALK	7.704496914	82.1528268	10.66297095	3.414538
XAB2	860.7023695	1755.652916	2.039790964	1.028421	PCDHAC1	0.829826533	0	547.0328046	9.095484	ADAMTS14	27.51606041	292.9287663	10.64573787	3.412204
TSPAN18	55.03212081	112.2284459	2.039326201	1.028093	LINC02064	0.829826533	0	547.0328046	9.095484	RAD51	19.81156349	210.7759395	10.63903611	3.411296
TRAPPC9	1766.531078	3602.421995	2.0392633	1.028048	LINC00498	0.829826533	0	547.0328046	9.095484	IGSF11	14.30835141	151.8582556	10.61326013	3.407796
ANGEL1	390.7280578	796.7108484	2.039041816	1.027891	RPL23AP94	0.829826533	0	547.0328046	9.095484	LPL	51.73019357	546.8556855	10.57130561	3.402082
ATAD3A	173.9015018	354.4641013	2.038303854	1.027369	HNRNPA1P6	0.829826533	0	547.0328046	9.095484	GCK	5.503212081	58.08785734	10.55526418	3.399891
FHIP1A	708.8137161	1444.524551	2.037946668	1.027116	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC22A31	4.402569665	46.47028587	10.55526418	3.399891
LRRC23	62.73661773	127.7848641	2.036846562	1.026337	LINC02220	0.829826533	0	547.0328046	9.095484	SCARA5	3.301927249	34.8527144	10.55526418	3.399891
CFAP418	62.73661773	127.7848641	2.036846562	1.026337	LINC02119	0.829826533	0	547.0328046	9.095484	ATOH7	3.301927249	34.8527144	10.55526418	3.399891
MRPL24	204.7194894	416.6897743	2.035418198	1.025325	ENSG000002	0.829826533	0	547.0328046	9.095484	BCAR3-AS1	3.301927249	34.8527144	10.55526418	3.399891
TOMM40	70.44111464	143.3412824	2.034909344	1.024965	C4orf46P2	0.829826533	0	547.0328046	9.095484	TIAM1-AS1	3.301927249	34.8527144	10.55526418	3.399891
ZCCHC3	143.0835141	291.1272556	2.034666659	1.024792	ENSG000002	0.829826533	0	547.0328046	9.095484	C19orf73	2.201284833	23.23514293	10.55526418	3.399891
DUS1L	377.5203488	767.8203574	2.033851579	1.024214	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02848	2.201284833	23.23514293	10.55526418	3.399891
ING5	236.6381195	481.1377927	2.03322184	1.023768	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	23.23514293	10.55526418	3.399891
ZNF335	653.7815953	1328.962587	2.032773172	1.02342	PPP1R3B-D1	0.829826533	0	547.0328046	9.095484	C6orf52	1.100642416	11.61757147	10.55526418	3.399891
PORCN	83.64882364	170.0094279	2.032418634	1.023198	LINC02117	0.829826533	0	547.0328046	9.095484	SPATA41	1.100642416	11.61757147	10.55526418	3.399891
RNPEP	588.8436927	1196.733032	2.032344146	1.023145	ENSG000002	0.829826533	0	547.0328046	9.095484	H3C15	1.100642416	11.61757147	10.55526418	3.399891
GBA2	682.3982981	1386.743569	2.032161529	1.023015	ENSG000002	0.829826533	0	547.0328046	9.095484	TARDBPP2	1.100642416	11.61757147	10.55526418	3.399891
IRGQ	170.5995745	346.6858922	2.032161529	1.023015	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM174A-D	1.100642416	11.61757147	10.55526418	3.399891
SIRT5	179.4047139	364.4646559	2.031522183	1.022561	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC41A3-AS	1.100642416	11.61757147	10.55526418	3.399891
PLPPR2	544.8179961	1106.728041	2.031372033	1.022454	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU4ATAC1	1.100642416	11.61757147	10.55526418	3.399891
BICDL2	189.3104956	384.4657651	2.030874009	1.022101	HAS2-AS1	0.829826533	0	547.0328046	9.095484	SNORD3B-2	1.100642416	11.61757147	10.55526418	3.399891
GEMIN4	381.9229185	775.5985665	2.030772517	1.022029	LINC01085	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
FBXO9	859.6017271	1745.652361	2.030768792	1.022026	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
RFXANK	117.7687385	238.9021373	2.028570062	1.020463	LINC01948	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
TENM4	290.5695979	588.9215477	2.026783091	1.019192	R3HDM2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
ULK3	157.3918655	318.9065739	2.026194765	1.018773	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
IQCN	430.3511848	871.1594214	2.02429888	1.017422	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC7A14-AS	1.100642416	11.61757147	10.55526418	3.399891
PTPRU	756.14134	1530.084851	2.023543444	1.016884	NMNAT1P4	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	11.61757147	10.55526418	3.399891
VGLL4	530.5096447	1073.392859	2.023323929	1.016727	ENSG000002	0.829826533	0	547.0328046	9.095484	FABP5	100.1584599	1055.53935	10.5386939	3.397624
SDK1	1096.239847	2215.678426	2.021162096	1.015185	ENSG000002	0.829826533	0	547.0328046	9.095484	CHEK1	39.62312699	417.4027463	10.53432119	3.397025
USP22	2890.286985	5840.323876	2.020672655	1.014836	LINC02115	0.829826533	0	547.0328046	9.095484	KIF11	116.6680961	1227.313443	10.51970062	3.395022
TTC22	116.6680961	235.5686191	2.019134852	1.013737	MTCYBP37	0.829826533	0	547.0328046	9.095484	MCM2	230.034265	2417.284692	10.50836792	3.393467
EIF5AL1	40.7237694	82.22678213	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PKMYT1	16.50963624	173.4337455	10.50500101	3.393004
CCM2L	23.11349074	46.66925472	2.019134852	1.013737	LINC02432	0.829826533	0	547.0328046	9.095484	CDHR1	23.11349074	241.4795212	10.4475574	3.385094
LIPG	23.11349074	46.66925472	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CCNA2	96.85653263	1011.558544	10.44388558	3.384587
SLC31A2	23.11349074	46.66925472	2.019134852	1.013737	RPL7AP29	0.829826533	0	547.0328046	9.095484	SPP1	283.9657434	2963.310551	10.43545082	3.383421
USP6	18.71092108	37.77987287	2.019134852	1.013737	LINC02065	0.829826533	0	547.0328046	9.095484	LRFN5	125.4732355	1308.636443	10.42960627	3.382613
ENSG000002	18.71092108	37.77987287	2.019134852	1.013737	UGT2A3P7	0.829826533	0	547.0328046	9.095484	KIF24	97.95717505	1021.516463	10.42819438	3.382417
WDR93	16.50963624	33.33518194	2.019134852	1.013737	PELO-AS1	0.829826533	0	547.0328046	9.095484	SLC47A2	4.402569665	45.64045934	10.36677732	3.373896
GALT	16.50963624	33.33518194	2.019134852	1.013737	HMGB1P21	0.829826533	0	547.0328046	9.095484	S100A9	34.11991491	353.5061032	10.36069709	3.373049
FARSA	537.1134992	1084.504586	2.019134852	1.013737	MTND5P11	0.829826533	0	547.0328046	9.095484	SNAP25	33.01927249	341.0587052	10.32907994	3.36864
EDEM2	283.9657434	573.3651294	2.019134852	1.013737	MTCYBP40	0.829826533	0	547.0328046	9.095484	SEZ6L2	303.7773069	3137.574123	10.3285336	3.368564
HTRA2	148.5867262	300.0166375	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TLCD3B	6.603854498	68.04577574	10.30394836	3.365125
UBL4A	141.9828717	286.6825647	2.019134852	1.013737	ZSWIM5P3	0.829826533	0	547.0328046	9.095484	OR9A4	6.603854498	68.04577574	10.30394836	3.365125
PGAP4	93.55460539	188.8993643	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM17	3.301927249	34.02288787	10.30394836	3.365125
PGAM5	93.55460539	188.8993643	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	34.02288787	10.30394836	3.365125
MALRD1	30.81798766	62.22567296	2.019134852	1.013737	PCNAP1	0.829826533	0	547.0328046	9.095484	TUBB1	5.503212081	56.42820427	10.2536852	3.358071
NKPD1	20.91220591	42.22456379	2.019134852	1.013737	LINC01033	0.829826533	0	547.0328046	9.095484	EXO1	29.71734524	304.5463377	10.2481004	3.357285
IL15	15.40899383	31.11283648	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	NEURL1B	110.0642416	1126.074606	10.23106678	3.354885
SNTG2	14.30835141	28.89049102	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF114	14.30835141	146.0494699	10.20728843	3.351528
DPP6	12.10706658	24.44580009	2.019134852	1.013737	IRX4-AS1	0.829826533	0	547.0328046	9.095484	NOS2	11.00642416	112.026582	10.17829046	3.347423
NCBP2AS2	12.10706658	24.44580009	2.019134852	1.013737	EPPIN-WFD	0.829826533	0	547.0328046	9.095484	FOXD3-AS1	2.201284833	22.4053164	10.17829046	3.347423
CITED1	7.704496914	15.55641824	2.019134852	1.013737	LINC02517	0.829826533	0	547.0328046	9.095484	B3GNT5	132.07709	1343.489158	10.17200756	3.346533
FUOM	7.704496914	15.55641824	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CBX2	34.11991491	346.8674909	10.16613001	3.345699
NBPF17P	7.704496914	15.55641824	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM22	5.503212081	55.59837774	10.10289571	3.336697
PNPLA1	7.704496914	15.55641824	2.019134852	1.013737	LINC02213	0.829826533	0	547.0328046	9.095484	RAD51AP1	33.01927249	333.5902664	10.10289571	3.336697
OR4P4	7.704496914	15.55641824	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	12.10706658	121.9845004	10.07547944	3.332777
LYPLA1P3	7.704496914	15.55641824	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	MYCN	12.10706658	121.1546739	10.00693876	3.322929
SPCS3-AS1	7.704496914	15.55641824	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TEDC2	17.61027866	175.9232251	9.989803595	3.320456
GCATP1	7.704496914	15.55641824	2.019134852	1.013737	CASC16	0.829826533	0	547.0328046	9.095484	STK32A	8.80513933	87.96161254	9.989803595	3.320456
TSPAN32	6.603854498	13.33407278	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RAD54B	35.22055732	351.0166236	9.966242737	3.31705
DLX2	6.603854498	13.33407278	2.019134852	1.013737	LINC00939	0.829826533	0	547.0328046	9.095484	CCNB2	50.62955115	504.5345323	9.965218352	3.316901
MYBPH	6.603854498	13.33407278	2.019134852	1.013737	PDLIM1P4	0.829826533	0	547.0328046	9.095484	CDCA3	27.51606041	273.842756	9.952106223	3.315002
ABT1	6.603854498	13.33407278	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TADA2A	11.00642416	109.5371024	9.952106223	3.315002
ZNF852	6.603854498	13.33407278	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	MEIS3P1	5.503212081	54.7685512	9.952106223	3.315002
CATSPER4	6.603854498	13.33407278	2.019134852	1.013737	CTD-2194D2	0.829826533	0	547.0328046	9.095484	BRDT	6.603854498	65.55629614	9.926974642	3.311354
DPF3	6.603854498	13.33407278	2.019134852	1.013737	VPS51P7	0.829826533	0	547.0328046	9.095484	ZNF878	5.503212081	53.93872467	9.801316735	3.292976
CPB2	3.301927249	6.667036389	2.019134852	1.013737	LINC02997	0.829826533	0	547.0328046	9.095484	BARHL1	2.201284833	21.57548987	9.801316735	3.292976
ENSG000001	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORD116	2.201284833	21.57548987	9.801316735	3.292976
IL17B	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	21.57548987	9.801316735	3.292976
BARHL2	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	21.57548987	9.801316735	3.292976
C20orf144	3.301927249	6.667036389	2.019134852	1.013737	SPATS1	0.829826533	0	547.0328046	9.095484	LINC01116	1.100642416	10.78774493	9.801316735	3.292976
XKR6	3.301927249	6.667036389	2.019134852	1.013737	EGFLAM-AS	0.829826533	0	547.0328046	9.095484	LINC00471	1.100642416	10.78774493	9.801316735	3.292976

TTC36	3.301927249	6.667036389	2.019134852	1.013737	LINC01179	0.829826533	0	547.0328046	9.095484	ACP7	1.100642416	10.78774493	9.801316735	3.292976
BEND2	3.301927249	6.667036389	2.019134852	1.013737	JMJD4P1	0.829826533	0	547.0328046	9.095484	Y_RNA.26	1.100642416	10.78774493	9.801316735	3.292976
C2orf88	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ACOXL-AS1	1.100642416	10.78774493	9.801316735	3.292976
SLC22A12	3.301927249	6.667036389	2.019134852	1.013737	RPL7L1P4	0.829826533	0	547.0328046	9.095484	EIPR1-IT1	1.100642416	10.78774493	9.801316735	3.292976
FAM221B	3.301927249	6.667036389	2.019134852	1.013737	LINC02225	0.829826533	0	547.0328046	9.095484	INE1	1.100642416	10.78774493	9.801316735	3.292976
BASP1-AS1	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02641	1.100642416	10.78774493	9.801316735	3.292976
ATP6V0E1P2	3.301927249	6.667036389	2.019134852	1.013737	LINC01187	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
MTOR-AS1	3.301927249	6.667036389	2.019134852	1.013737	LINC02173	0.829826533	0	547.0328046	9.095484	SNRPGP10	1.100642416	10.78774493	9.801316735	3.292976
PROSER2-AS	3.301927249	6.667036389	2.019134852	1.013737	PALLD-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
TLK1P1	3.301927249	6.667036389	2.019134852	1.013737	IFNAR2-IL10	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
UGT1A11P	3.301927249	6.667036389	2.019134852	1.013737	LINC00942	0.829826533	0	547.0328046	9.095484	EEF1AKMT4	1.100642416	10.78774493	9.801316735	3.292976
MORF4	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PARTICL	1.100642416	10.78774493	9.801316735	3.292976
LINC00957	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
MRPS36P1	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
CYP51A1P1	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
ENSG000002	3.301927249	6.667036389	2.019134852	1.013737	PARM1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	10.78774493	9.801316735	3.292976
OR7E100P	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	COLCA1	234.4368347	2294.470365	9.787158097	3.29089
CASC9	3.301927249	6.667036389	2.019134852	1.013737	ZCCHC10P2	0.829826533	0	547.0328046	9.095484	SLC12A5	22.01284833	214.9250721	9.763619363	3.287416
ENSG000002	3.301927249	6.667036389	2.019134852	1.013737	LINC02972	0.829826533	0	547.0328046	9.095484	FAM166C	16.50963624	160.9863475	9.751053572	3.285558
ENSG000002	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SYDE2	541.5160688	5276.866926	9.744617435	3.284606
XKR7	3.301927249	6.667036389	2.019134852	1.013737	LINC01377	0.829826533	0	547.0328046	9.095484	CDC7	140.8822293	1366.7243	9.70118309	3.278161
ENSG000002	3.301927249	6.667036389	2.019134852	1.013737	LINC02945	0.829826533	0	547.0328046	9.095484	BRCA2	204.7194894	1982.455588	9.68376579	3.275568
MRPL20-DT	3.301927249	6.667036389	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BUB1B	96.85653263	936.0443296	9.664235382	3.272656
ENSG000002	3.301927249	6.667036389	2.019134852	1.013737	CDH18-AS1	0.829826533	0	547.0328046	9.095484	FBXL16	23.11349074	223.2233375	9.657707698	3.271681
IGFN1	108.9635992	220.0122008	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RPN2	133.1777324	1282.911821	9.633080529	3.267997
DNAH12	99.05781747	200.0110917	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FRMD3	74.84368431	720.289431	9.623917337	3.266624
CDKN1A	85.85010847	173.3429461	2.019134852	1.013737	RNF103-CHI	0.829826533	0	547.0328046	9.095484	ACAA2P1	4.402569665	42.3211532	9.612829874	3.264961
TOX2	79.24625397	160.0088733	2.019134852	1.013737	NGFR-AS1	0.829826533	0	547.0328046	9.095484	MYOM3	7.704496914	73.85456147	9.58590318	3.260914
CCDC170	47.3276239	95.5608549	2.019134852	1.013737	RACK1P1	0.829826533	0	547.0328046	9.095484	DSCC1	88.0513933	843.9335844	9.584556845	3.260712
AKR7L	38.52248457	77.7820912	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FOXJ1	48.42826632	463.0432056	9.561424367	3.257226
FBXW10	22.01284833	44.44690926	2.019134852	1.013737	LINC02223	0.829826533	0	547.0328046	9.095484	PRSS16	6.603854498	63.06681654	9.550000921	3.255501
PAK5	19.81156349	40.00221833	2.019134852	1.013737	XBP1P1	0.829826533	0	547.0328046	9.095484	ATP6V0D2	3.301927249	31.53340827	9.550000921	3.255501
MDFI	17.61027866	35.55752741	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CACNG5	9.905781747	94.6002248	9.550000921	3.255501
RPS7P1	17.61027866	35.55752741	2.019134852	1.013737	TRGV7	0.829826533	0	547.0328046	9.095484	CENPU	92.45396297	882.105605	9.541025356	3.254144
ENSG000002	17.61027866	35.55752741	2.019134852	1.013737	MTCO2P24	0.829826533	0	547.0328046	9.095484	AP3B2	38.52248457	366.7833277	9.521279114	3.251155
HGFAC	13.207709	26.66814555	2.019134852	1.013737	ECM1P2	0.829826533	0	547.0328046	9.095484	MCM3	487.5845904	4642.049628	9.520501096	3.251038
KCNJ13	13.207709	26.66814555	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	C21orf58	37.42184215	355.9955828	9.513042713	3.249907
KDM4D	13.207709	26.66814555	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF729	5.503212081	52.2790716	9.499737758	3.247888
HBEGF	11.00642416	22.22345463	2.019134852	1.013737	LINC01018	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	52.2790716	9.499737758	3.247888
FBXW11P1	11.00642416	22.22345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	HCN4	24.21413316	229.8619497	9.492883691	3.246846
KLK10	9.905781747	20.00110917	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPV	52.83083598	501.2152262	9.487171968	3.245978
KLRC1	9.905781747	20.00110917	2.019134852	1.013737	ESAM-AS1	0.829826533	0	547.0328046	9.095484	SLC35D3	9.905781747	93.77039827	9.466228983	3.24279
PGK2	9.905781747	20.00110917	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CCK	12.10706658	114.5160616	9.458613352	3.241629
PPIAP31	9.905781747	20.00110917	2.019134852	1.013737	TRPC6P6	0.829826533	0	547.0328046	9.095484	EPHA8	14.30835141	135.2617249	9.453340993	3.240824
PLCG1-AS1	9.905781747	20.00110917	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PCNA	627.3661773	5918.322836	9.433602018	3.237809
EPHX3	8.80513933	17.7787637	2.019134852	1.013737	ANKRD33B	0.829826533	0	547.0328046	9.095484	CRYBA2	6.603854498	62.23699	9.424343014	3.236392
TPSG1	8.80513933	17.7787637	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	20.74566333	9.424343014	3.236392
HAO2	8.80513933	17.7787637	2.019134852	1.013737	LINC02232	0.829826533	0	547.0328046	9.095484	DONSON	95.75589022	901.1916152	9.41134392	3.234401
MMP27	8.80513933	17.7787637	2.019134852	1.013737	LINC02060	0.829826533	0	547.0328046	9.095484	NEB	1193.096379	11215.1056	9.399999693	3.232661
CD19	8.80513933	17.7787637	2.019134852	1.013737	C2CD5-AS1	0.829826533	0	547.0328046	9.095484	DNAH3	30.81798766	289.6094601	9.39741632	3.232264
DCAF4L1	8.80513933	17.7787637	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	IL1R2	14.30835141	134.4318984	9.395345036	3.231946
ADAP2	8.80513933	17.7787637	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	25.31477557	237.3303885	9.375172529	3.228845
DCST1-AS1	8.80513933	17.7787637	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU5B-1	5.503212081	51.44924507	9.34894827	3.224804
FGF22	5.503212081	11.11172731	2.019134852	1.013737	SEPHS2P1	0.829826533	0	547.0328046	9.095484	DAAM2-AS1	5.503212081	51.44924507	9.34894827	3.224804
KCNK10	5.503212081	11.11172731	2.019134852	1.013737	CCDC74BP1	0.829826533	0	547.0328046	9.095484	VWDE	93.55460539	873.8073396	9.3400783	3.223435
SLC17A2	5.503212081	11.11172731	2.019134852	1.013737	LINC01612	0.829826533	0	547.0328046	9.095484	PCDH9	551.4218506	5149.07364	9.33781212	3.223085
ACTL8	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LYPD5	6.603854498	61.40716347	9.298685107	3.217027
LRFN1	5.503212081	11.11172731	2.019134852	1.013737	RDH10-AS1	0.829826533	0	547.0328046	9.095484	FAM83A	3.301927249	30.70358173	9.298685107	3.217027
NUTM2F	5.503212081	11.11172731	2.019134852	1.013737	TRMT9B	0.829826533	0	547.0328046	9.095484	MORN5	3.301927249	30.70358173	9.298685107	3.217027
CRHBP	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BRINP2	3.301927249	30.70358173	9.298685107	3.217027
NEUROD1	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	30.70358173	9.298685107	3.217027
ATP13A5	5.503212081	11.11172731	2.019134852	1.013737	MRPL22P1	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	30.70358173	9.298685107	3.217027
NPIPB9	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	NPAS4	13.207709	122.8143269	9.298685107	3.217027
EHBP1-AS1	5.503212081	11.11172731	2.019134852	1.013737	EEF1GP2	0.829826533	0	547.0328046	9.095484	WDR76	163.99572	1524.391342	9.295311741	3.216503
ENSG000002	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CD24P4	11.00642416	102.0686636	9.273553526	3.213122
ENSG000002	5.503212081	11.11172731	2.019134852	1.013737	MARK2P4	0.829826533	0	547.0328046	9.095484	TRPC3	16.50963624	152.6880821	9.248421945	3.209207
ENSG000002	5.503212081	11.11172731	2.019134852	1.013737	H3P21	0.829826533	0	547.0328046	9.095484	TMEM169	8.80513933	81.32300027	9.235856154	3.207246
CARD18	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	HCCS-DT	4.402569665	40.66150013	9.235856154	3.207246
ARHGEF17-/	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FADS1	183.8072835	1695.335608	9.223440852	3.205305
ENSG000002	5.503212081	11.11172731	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	DNER	25.31477557	233.1812559	9.211270911	3.2034
TAC1	4.402569665	8.889381852	2.019134852	1.013737	SEC63P2	0.829826533	0	547.0328046	9.095484	FRMPD2B	6.603854498	60.57733694	9.1730272	3.197398
OGFOD2	4.402569665	8.889381852	2.019134852	1.013737	CLSTN2-AS	0.829826533	0	547.0328046	9.095484	ATP2C2-AS1	13.207709	120.3248473	9.110198247	3.187482
CHRNB4	4.402569665	8.889381852	2.019134852	1.013737	LINC01332	0.829826533	0	547.0328046	9.095484	POLQ	194.8137077	1772.509475	9.098484374	3.185626
TNFRSF8	4.402569665	8.889381852	2.019134852	1.013737	HOXC-AS1	0.829826533	0	547.0328046	9.095484	FBXO43	35.22055732	320.3130419	9.094491009	3.184993
ARHGAP36	4.402569665	8.889381852	2.019134852	1.013737	LINC02260	0.829826533	0	547.0328046	9.095484	GADD45G	19.81156349	180.0723577	9.089255263	3.184162
KLHL1	4.402569665	8.889381852	2.019134852	1.013737	TRIM36-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	39.8316736	9.047369294	3.177498
NRGN	4.402569665	8.889381852	2.019134852	1.013737	RPL6P11	0.829826533	0	547.0328046	9.095484	SCARNA8	2.201284833	19.9158368	9.047369294	3.177498
CIB4	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RBFADN	2.201284833	19.9158368	9.047369294	3.177498
LMX1A	4.402569665	8.889381852	2.019134852	1.013737	LINC02994	0.829826533	0	547.0328046	9.095484	CEACAM7	1.100642416	9.9579184	9.047369294	3.177498
SH2D4B	4.402569665	8.889381852	2.019134852	1.013737	LINC01303	0.829826533	0	547.0328046	9.095484	GDAP1L1	1.100642416	9.9579184	9.047369294	3.177498
TMEM150B	4.402569665	8.889381852	2.019134852	1.013737	MIR583HG	0.829826533	0	547.0328046	9.095484	CAMKV	1.100642416	9.9579184	9.047369294	3.177498
AGTR2	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CACYBPP2	1.100642416	9.9579184	9.047369294	3.177498
SOWAHD	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ADGRG3	1.100642416	9.9579184	9.047369294	3.177498
GRK6P1	4.402569665	8.889381852	2.019134852	1.013737	MTCO1P35	0.829826533	0	547.0328046	9.095484	RPS16P5	1.100642416	9.9579184	9.047369294	3.177498
CEP57L1P1	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BRAFP1	1.100642416	9.9579184	9.047369294	3.177498
MYCBP2-AS	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SPOPL-DT	1.100642416	9.9579184	9.047369294	3.177498
PTX4	4.402569665	8.889381852	2.019134852	1.013737	LINC01017	0.829826533	0	547.0328046	9.095484	KCTD13-DT	1.100642416	9.9579184	9.047369294	3.177498
ENSG000002	4.402569665	8.889381852	2.019134852	1.013737	P3R3URF	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
CEROX1	4.402569665	8.889381852	2.019134852	1.013737	C8orf17	0.829826533	0	547.0328046	9.095484	MRFAP1P1	1.100642416	9.9579184	9.047369294	3.177498
GPIHBP1	4.402569665	8.889381852	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
RETSAT	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
SLC32A1	2.201284833	4.444690926	2.019134852	1.013737	LINC01365	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
CA9	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
ANXA10	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
CD160	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.9579184	9.047369294	3.177498
GPR31	2.201284833	4.444690926	2.019134852	1.013737	EXOC1L	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	98.74935747	8.971974549	3.165426
TP53AIP1	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	C9orf40	20.91220591	187.5407965	8.968006405	3.164787
CACNG8	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PAK5	19.81156349	177.5828781	8.963597356	3.164078
FAM86C2P	2.201284833	4.444690926	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	INSRR	7.704496914	68.87560227	8.939662516	3.16022
GNG3	2.201284833	4.444690926	2.019134852	1.013737	UGT2B26P	0.829826533	0	547.0328046	9.095484	SYN2	34.11991491	304.5463377	8.925764868	3.157976
ZNF474	2.201284833	4.444690926	2.019134852	1.013737	LINC01181	0.829826533	0	547.0328046	9.095484	OGDHL	9.905781747	87.96161254	8.879825418	3.150531

UCMA	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	CSMD2	68.23982981	604.9435428	8.864962655	3.148115
TEKT1	2.201284833	4.444690926	2.019134852	1.013737	SNHG21	0.829826533	0	547.0328046	9.095484	AATBC	3.301927249	29.04392867	8.79605348	3.136856
WFDC13	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	RNA5-8SN4	3.301927249	29.04392867	8.79605348	3.136856
OR8B12	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	CEACAM5	36.32119974	318.6533888	8.773206588	3.133104
GOLGA8Q	2.201284833	4.444690926	2.019134852	1.013737	LINC02480	0.829826533	0	547.0328046	9.095484	HPSE	59.43469048	516.9819303	8.698319552	3.120737
WFDC11	2.201284833	4.444690926	2.019134852	1.013737	ELL2P2	0.829826533	0	547.0328046	9.095484	CENPW	13.207709	114.5160616	8.670395573	3.116098
UTS2R	2.201284833	4.444690926	2.019134852	1.013737	ABITRAMP	0.829826533	0	547.0328046	9.095484	MRE11P1	2.201284833	19.08601027	8.670395573	3.116098
GBP6	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	FUNDC2P1	2.201284833	19.08601027	8.670395573	3.116098
RP1L1	2.201284833	4.444690926	2.019134852	1.013737	WWC2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	19.08601027	8.670395573	3.116098
OR10H1	2.201284833	4.444690926	2.019134852	1.013737	F11-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	19.08601027	8.670395573	3.116098
KRT16	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	C6orf118	6.603854498	57.2580308	8.670395573	3.116098
KRTAP15-1	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	DNAJC6	114.4668113	985.0040951	8.605150121	3.1052
CFAP95	2.201284833	4.444690926	2.019134852	1.013737	TILRLS	0.829826533	0	547.0328046	9.095484	ENO2	150.788011	1288.720606	8.546572088	3.095346
OR5D16	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	BCHE	19.81156349	169.2846128	8.544737666	3.095036
IGLV3-22	2.201284833	4.444690926	2.019134852	1.013737	WDFY3-AS1	0.829826533	0	547.0328046	9.095484	FPR2	3.301927249	28.21410213	8.544737666	3.095036
TRAJ13	2.201284833	4.444690926	2.019134852	1.013737	OR7H2P	0.829826533	0	547.0328046	9.095484	OR56A3	3.301927249	28.21410213	8.544737666	3.095036
PPIAP16	2.201284833	4.444690926	2.019134852	1.013737	LINC02429	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	28.21410213	8.544737666	3.095036
LDHAP5	2.201284833	4.444690926	2.019134852	1.013737	TUBB7P	0.829826533	0	547.0328046	9.095484	FOSB	41.82441182	356.8254093	8.531510518	3.092801
PPIAP23	2.201284833	4.444690926	2.019134852	1.013737	SLC25A15P2	0.829826533	0	547.0328046	9.095484	GCH1	115.5674537	985.0040951	8.523196311	3.091395
PRSS41	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	ORC1	30.81798766	262.2251845	8.508835407	3.088962
ZNF859P	2.201284833	4.444690926	2.019134852	1.013737	NDUFB4P2	0.829826533	0	547.0328046	9.095484	KIF2C	42.92505424	365.1236747	8.506073695	3.088493
RPL23AP53	2.201284833	4.444690926	2.019134852	1.013737	MRPS33P3	0.829826533	0	547.0328046	9.095484	STUM	17.61027866	149.368776	8.481908713	3.084389
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RAB5CP2	0.829826533	0	547.0328046	9.095484	PTPRH	9.905781747	83.81247987	8.460965728	3.080822
SFR1P1	2.201284833	4.444690926	2.019134852	1.013737	LINC02236	0.829826533	0	547.0328046	9.095484	TINCR	5.503212081	46.47028587	8.444211341	3.077963
SNX19P1	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	EME1	11.00642416	92.94057174	8.444211341	3.077963
RPL35AP21	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	BLM	62.73661773	528.5995018	8.425693333	3.074795
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	CDCA4	50.62955115	426.5308382	8.424543147	3.074598
SDHCP3	2.201284833	4.444690926	2.019134852	1.013737	FAM90A25P	0.829826533	0	547.0328046	9.095484	NUP62CL	25.31477557	213.2654191	8.424543147	3.074598
MFRP	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	KIF4B	6.603854498	55.59837774	8.419079759	3.073663
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	MTND1P19	0.829826533	0	547.0328046	9.095484	ZNF99	19.81156349	166.7951332	8.419079759	3.073663
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RASGRF2-A	0.829826533	0	547.0328046	9.095484	ASPHD1	7.704496914	64.7264696	8.40112863	3.070583
KLF7P1	2.201284833	4.444690926	2.019134852	1.013737	HAUS1P1	0.829826533	0	547.0328046	9.095484	PXMP2	7.704496914	64.7264696	8.40112863	3.070583
OR14A2	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	HELLS	198.1156349	1663.802199	8.398136775	3.070069
ABCF2P1	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	COTL1	290.5695979	2435.540875	8.38195356	3.067287
BGLAP	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	PARN	11.00642416	92.1107452	8.368816597	3.065024
C9orf85P2	2.201284833	4.444690926	2.019134852	1.013737	NRBF2P6	0.829826533	0	547.0328046	9.095484	ECT2	348.903646	2919.329744	8.367151728	3.064737
ASLP1	2.201284833	4.444690926	2.019134852	1.013737	OR7E28P	0.829826533	0	547.0328046	9.095484	CCDC150	40.7237694	340.2288787	8.354552726	3.062563
TNXA	2.201284833	4.444690926	2.019134852	1.013737	PITPNM2-A	0.829826533	0	547.0328046	9.095484	SSX2IP	408.3383364	3400.629134	8.327969309	3.057965
GLDCP1	2.201284833	4.444690926	2.019134852	1.013737	CENPS-COR	0.829826533	0	547.0328046	9.095484	AKAP5	15.40899383	127.7932861	8.293421852	3.051967
LINC01095	2.201284833	4.444690926	2.019134852	1.013737	C5orf64-AS1	0.829826533	0	547.0328046	9.095484	PRR19	4.402569665	36.51236747	8.293421852	3.051967
ANKHD1-DT	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	36.51236747	8.293421852	3.051967
SLC2A3P4	2.201284833	4.444690926	2.019134852	1.013737	LINC02241	0.829826533	0	547.0328046	9.095484	NTN3	2.201284833	18.25618373	8.293421852	3.051967
PPIAP43	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	POT1-AS1	2.201284833	18.25618373	8.293421852	3.051967
OR4C7P	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	SNORD13	2.201284833	18.25618373	8.293421852	3.051967
C12orf71BP	2.201284833	4.444690926	2.019134852	1.013737	PCDHA12	0.829826533	0	547.0328046	9.095484	LHX4	1.100642416	9.128091867	8.293421852	3.051967
SKP1P2	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	ADCYAP1	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RNU5E-3P	0.829826533	0	547.0328046	9.095484	SLC39A4	1.100642416	9.128091867	8.293421852	3.051967
PRMT5-DT	2.201284833	4.444690926	2.019134852	1.013737	Y_RNA.115	0.829826533	0	547.0328046	9.095484	NEIL2	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RNU7-124P	0.829826533	0	547.0328046	9.095484	TMSB15B	1.100642416	9.128091867	8.293421852	3.051967
MYL6B-AS1	2.201284833	4.444690926	2.019134852	1.013737	RNU6-999P	0.829826533	0	547.0328046	9.095484	GON7	1.100642416	9.128091867	8.293421852	3.051967
TUBB3	2.201284833	4.444690926	2.019134852	1.013737	Y_RNA.116	0.829826533	0	547.0328046	9.095484	FUNDC2P2	1.100642416	9.128091867	8.293421852	3.051967
DUT-AS1	2.201284833	4.444690926	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	DCDC2B	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RNU6-202P	0.829826533	0	547.0328046	9.095484	NFIB-AS1	1.100642416	9.128091867	8.293421852	3.051967
FKBP4P6	2.201284833	4.444690926	2.019134852	1.013737	RNA5SP96	0.829826533	0	547.0328046	9.095484	PGAM4	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	VTRNA2-2P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RN7SKP141	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RN7SKP43	0.829826533	0	547.0328046	9.095484	RN7SL683P	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RNU4ATAC	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
GOLGA6L22	2.201284833	4.444690926	2.019134852	1.013737	SNORA70.3	0.829826533	0	547.0328046	9.095484	LINC01290	1.100642416	9.128091867	8.293421852	3.051967
RCAN3AS	2.201284833	4.444690926	2.019134852	1.013737	RNU6-1262P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RNA5SP464	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
ENSG000002	2.201284833	4.444690926	2.019134852	1.013737	RN7SKP248	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
ASB4	1.100642416	2.222345463	2.019134852	1.013737	RNU6-313P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
CPSF1	1.100642416	2.222345463	2.019134852	1.013737	SNORD27	0.829826533	0	547.0328046	9.095484	TUBGCP5	1.100642416	9.128091867	8.293421852	3.051967
NCR2	1.100642416	2.222345463	2.019134852	1.013737	RNU6-781P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
NKAIN4	1.100642416	2.222345463	2.019134852	1.013737	Y_RNA.119	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
PAX4	1.100642416	2.222345463	2.019134852	1.013737	Y_RNA.120	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
RHOXF2	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
FCRLA	1.100642416	2.222345463	2.019134852	1.013737	RNU6-977P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
GPR12	1.100642416	2.222345463	2.019134852	1.013737	Y_RNA.121	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
GRP	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
SMIM2	1.100642416	2.222345463	2.019134852	1.013737	RNU7-3P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	9.128091867	8.293421852	3.051967
DUOXA2	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP92	0.829826533	0	547.0328046	9.095484	LINC01518	6.603854498	54.7685512	8.293421852	3.051967
CELA2A	1.100642416	2.222345463	2.019134852	1.013737	Vault	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	27.3842756	8.293421852	3.051967
RPL7A	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP134	0.829826533	0	547.0328046	9.095484	MARCHF6-D	3.301927249	27.3842756	8.293421852	3.051967
FAM167A	1.100642416	2.222345463	2.019134852	1.013737	RNU1-103P	0.829826533	0	547.0328046	9.095484	SP2-DT	3.301927249	27.3842756	8.293421852	3.051967
B3GALNT2	1.100642416	2.222345463	2.019134852	1.013737	RNU6-1061P	0.829826533	0	547.0328046	9.095484	HOXB4	13.207709	108.7072759	8.230592899	3.040996
BIRC8	1.100642416	2.222345463	2.019134852	1.013737	RNU2-34P	0.829826533	0	547.0328046	9.095484	COL6A6	23.11349074	190.0302761	8.221617334	3.039422
SPRR2D	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	FOXG1	15.40899383	126.1336331	8.185715075	3.033108
NAXE	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP438	0.829826533	0	547.0328046	9.095484	MARCHF4	6.603854498	53.93872467	8.167763946	3.029941
KIF15	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	MT-TT	6.603854498	53.93872467	8.167763946	3.029941
IL25	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	SEC11C	488.6852328	3980.677881	8.145688908	3.026037
GNG8	1.100642416	2.222345463	2.019134852	1.013737	Y_RNA.122	0.829826533	0	547.0328046	9.095484	RMI2	11.00642416	89.6212656	8.142632364	3.025495
LY6D	1.100642416	2.222345463	2.019134852	1.013737	Y_RNA.123	0.829826533	0	547.0328046	9.095484	ANGPTL4	5.503212081	44.8106328	8.142632364	3.025495
MOBP	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP449	0.829826533	0	547.0328046	9.095484	RGS7	27.51606041	224.053164	8.142632364	3.025495
ACTBL2	1.100642416	2.222345463	2.019134852	1.013737	RNU6ATAC	0.829826533	0	547.0328046	9.095484	FANCE	26.41541799	214.9250721	8.136349469	3.024382
GP9	1.100642416	2.222345463	2.019134852	1.013737	MIR2276	0.829826533	0	547.0328046	9.095484	DRD1	25.31477557	205.7969803	8.129520235	3.02317
OR10A4	1.100642416	2.222345463	2.019134852	1.013737	SCARNA14	0.829826533	0	547.0328046	9.095484	CKS2	106.7623144	865.5090743	8.106878156	3.019146
XAGE5	1.100642416	2.222345463	2.019134852	1.013737	RNU6-798P	0.829826533	0	547.0328046	9.095484	CA1	8.80513933	71.36508187	8.104934992	3.018801
CYLC1	1.100642416	2.222345463	2.019134852	1.013737	RNU6-577P	0.829826533	0	547.0328046	9.095484	ENSG000002	13.207709	107.0476228	8.104934992	3.018801
OR5D18	1.100642416	2.222345463	2.019134852	1.013737	RNU6-856P	0.829826533	0	547.0328046	9.095484	RIBC2	27.51606041	222.3935109	8.082316569	3.014769
LINC01551	1.100642416	2.222345463	2.019134852	1.013737	RNU1-117P	0.829826533	0	547.0328046	9.095484	BRI3BP	70.44111464	569.2610019	8.081374135	3.014601
TMEM221	1.100642416	2.222345463	2.019134852	1.013737	RNU6-334P	0.829826533	0	547.0328046	9.095484	FDXR	33.01927249	266.3743172	8.06723762	3.012075
SCGB1C1	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP342	0.829826533	0	547.0328046	9.095484	LCT	6.603854498	53.10889814	8.042106039	3.007573
RNASE9	1.100642416	2.222345463	2.019134852	1.013737	RNU6-1015P	0.829826533	0	547.0328046	9.095484	WDR11-DT	3.301927249	26.55444907	8.042106039	3.007573
OR8A1	1.100642416	2.222345463	2.019134852	1.013737	RNU6-1223P	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	26.55444907	8.042106039	3.007573
ATP11AUN	1.100642416	2.222345463	2.019134852	1.013737	RNA5SP40	0.829826533	0	547.0328046	9.095484	ZNF695	18.71092108	150.1986025	8.027322756	3.004919
OR7E13P	1.100642416	2.222345463	2.019134852	1.013737	RNU6-367P	0.829826533	0	547.0328046	9.095484	GPC2	18.71092108	150.1986025	8.027322756	3.004919
Y_RNA.66	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	BEGAIN	51.73019357	414.9132667	8.020717459	3.003731
Metazoa_SRP	1.100642416	2.222345463	2.019134852	1.013737	ENSG00000	0.829826533	0	547.0328046	9.095484	H3C13	12.10706658	97.0897044	8.019259147	3.003469
ACOXL-AS1	1.100642416	2.222345463	2.019134852	1.013737	RNU7-156P	0.829826533	0	547.0328046	9.095484	ATAD5	184.9079259	1482.070189	8.015179344	3.002735

CALML3-AS	1.100642416	2.222345463	2.019134852	1.013737	NRON	0.829826533	0	547.0328046	9.095484	LYNX1	49.52890873	396.6570829	8.008597264	3.00155	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PCDHGA1	14.30835141	114.5160616	8.003442067	3.000621	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	IGSF21	69.34047223	553.4942978	7.98226894	2.996799	
VN1R64P	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FOXA2	13.207709	105.3879697	7.979277085	2.996258	
KRT18P17	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	GPR39	7.704496914	61.40716347	7.970301521	2.994634	
PAFAH1B2P	1.100642416	2.222345463	2.019134852	1.013737	LINC00967	0.829826533	0	547.0328046	9.095484	ENO3	40.7237694	323.632348	7.947013569	2.990413	
TRIM64C	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	NMU	8.80513933	69.7054288	7.916448132	2.984853	
SYT14P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TNFRSF13C	8.80513933	69.7054288	7.916448132	2.984853	
DHRS4-AS1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	34.8527144	7.916448132	2.984853	
ANKRD20A1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SCN4A	2.201284833	17.4263572	7.916448132	2.984853	
C20orf202	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TACR3	2.201284833	17.4263572	7.916448132	2.984853	
LINC01139	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FKBP4P6	2.201284833	17.4263572	7.916448132	2.984853	
ST13P20	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	17.4263572	7.916448132	2.984853	
ANXA2P3	1.100642416	2.222345463	2.019134852	1.013737	PSME2P5	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	52.2790716	7.916448132	2.984853	
RPL7P58	1.100642416	2.222345463	2.019134852	1.013737	KRT18P41	0.829826533	0	547.0328046	9.095484	CARHSP1	102.3597447	809.9106966	7.912394651	2.984114	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RACGAP1	159.5931504	1262.166157	7.908648676	2.983431	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	NRBF2P4	0.829826533	0	547.0328046	9.095484	UNG	163.99572	1291.210086	7.873437707	2.976994	
RABGAP1L-1	1.100642416	2.222345463	2.019134852	1.013737	LINC02209	0.829826533	0	547.0328046	9.095484	NNT-AS1	13.207709	103.7283167	7.853619178	2.973358	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FABP5P7	5.503212081	43.15097974	7.841053388	2.971047	
SLC25A5-AS	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPK	31.91863007	249.7777865	7.825454475	2.968175	
LMX1B-DT	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BEND2	3.301927249	25.72462253	7.790790225	2.96177	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORD67	3.301927249	25.72462253	7.790790225	2.96177	
RPL29P20	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	OR1J4	3.301927249	25.72462253	7.790790225	2.96177	
IPO7P2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CLIC3	11.00642416	85.47213294	7.765658644	2.957108	
HMGB1P26	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RFC3	66.03854498	512.0029711	7.753092853	2.954772	
USP12PX	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BTG3	91.35332055	707.0122064	7.739315902	2.952206	
RPSAP21	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CNOT7P1	4.402569665	34.02288787	7.727961272	2.950088	
TRAF6P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	H1-3	257.5503254	1986.604721	7.713462282	2.947379	
LINC02798	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	POLE2	84.74946605	653.0734818	7.70593034	2.945969	
SLC6A17-AS	1.100642416	2.222345463	2.019134852	1.013737	POU5F1P2	0.829826533	0	547.0328046	9.095484	MRPS6	45.12633907	346.8674909	7.686586107	2.942343	
QRSL1P2	1.100642416	2.222345463	2.019134852	1.013737	ENTPD4-DT	0.829826533	0	547.0328046	9.095484	TMPO	939.9486235	7214.511881	7.675432147	2.940248	
THAP12P3	1.100642416	2.222345463	2.019134852	1.013737	LINC01605.1	0.829826533	0	547.0328046	9.095484	LAMA1	112.2655265	860.5301151	7.665132318	2.938311	
NANOGP2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RASAL1	22.01284833	168.4547863	7.652566527	2.935944	
PPIAP59	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LRFN2	8.80513933	67.2159492	7.633717841	2.932386	
KRT8P18	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	KNTC1	707.7130737	5400.511079	7.630933043	2.931859	
MYLKP1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	DNAJC22	11.00642416	83.81247987	7.614869155	2.928819	
RASA4CP	1.100642416	2.222345463	2.019134852	1.013737	NCRNA0025	0.829826533	0	547.0328046	9.095484	CHL1	227.8329802	1734.337455	7.612319575	2.928336	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	RNU6-988P	0.829826533	0	547.0328046	9.095484	BMAL2	110.0642416	835.6353191	7.592250732	2.924528	
NKX1-2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SNAI1	22.01284833	166.7951332	7.577171783	2.921659	
PYHIN5P	1.100642416	2.222345463	2.019134852	1.013737	NDUFA5P2	0.829826533	0	547.0328046	9.095484	LGI2	33.01927249	249.7777865	7.564605993	2.919265	
LINC02641	1.100642416	2.222345463	2.019134852	1.013737	HMGB1P19	0.829826533	0	547.0328046	9.095484	ENO1	1286.650985	9728.056451	7.560757786	2.918531	
TPI1P2	1.100642416	2.222345463	2.019134852	1.013737	IGKV1OR22	0.829826533	0	547.0328046	9.095484	PPM1E	124.372593	940.1934623	7.559490715	2.918289	
PROX1-AS1	1.100642416	2.222345463	2.019134852	1.013737	LINC02099	0.829826533	0	547.0328046	9.095484	SCML2	107.8629568	814.0598292	7.547167753	2.915935	
FAM136EP	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FOXI1	7.704496914	58.08785734	7.539474411	2.914464	
GCNT1P3	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ZIC1	6.603854498	49.789592	7.539474411	2.914464	
FARSBP1	1.100642416	2.222345463	2.019134852	1.013737	TUBAP7	0.829826533	0	547.0328046	9.095484	CATSPERD	3.301927249	24.894796	7.539474411	2.914464	
BEND3P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC03051	3.301927249	24.894796	7.539474411	2.914464	
FMN2P1	1.100642416	2.222345463	2.019134852	1.013737	LINC01414	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	24.894796	7.539474411	2.914464	
TPM4P1	1.100642416	2.222345463	2.019134852	1.013737	TARDBPP4	0.829826533	0	547.0328046	9.095484	GBA1	4.402569665	33.19306133	7.539474411	2.914464	
ATP5MGP2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BRICD5	4.402569665	33.19306133	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CALY	2.201284833	16.59653067	7.539474411	2.914464	
MTIF2P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	GPR37L1	2.201284833	16.59653067	7.539474411	2.914464	
LINC01723	1.100642416	2.222345463	2.019134852	1.013737	KCNIP1-AS	0.829826533	0	547.0328046	9.095484	RPS12P16	2.201284833	16.59653067	7.539474411	2.914464	
FOXP4-AS1	1.100642416	2.222345463	2.019134852	1.013737	RN7SL260P	0.829826533	0	547.0328046	9.095484	GBX2-AS1	2.201284833	16.59653067	7.539474411	2.914464	
EEF1GP5	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	16.59653067	7.539474411	2.914464	
TEX21P	1.100642416	2.222345463	2.019134852	1.013737	RPSAP74	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	16.59653067	7.539474411	2.914464	
ACTG1P25	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	16.59653067	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR548D1	2.201284833	16.59653067	7.539474411	2.914464	
ESRRAP2	1.100642416	2.222345463	2.019134852	1.013737	ADAM7-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	16.59653067	7.539474411	2.914464	
SRSF6P2	1.100642416	2.222345463	2.019134852	1.013737	SMARCE1P	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	16.59653067	7.539474411	2.914464	
LINC02940	1.100642416	2.222345463	2.019134852	1.013737	LINC02866	0.829826533	0	547.0328046	9.095484	HOXB6	1.100642416	8.298265334	7.539474411	2.914464	
FABP5P2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SFTPA1	1.100642416	8.298265334	7.539474411	2.914464	
EEF1E1P1	1.100642416	2.222345463	2.019134852	1.013737	IGKV2OR22	0.829826533	0	547.0328046	9.095484	MRO	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SCGB3A2	1.100642416	8.298265334	7.539474411	2.914464	
SDR42E1P5	1.100642416	2.222345463	2.019134852	1.013737	LINC02886	0.829826533	0	547.0328046	9.095484	GNG8	1.100642416	8.298265334	7.539474411	2.914464	
PPIAP36	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	EFCAB10	1.100642416	8.298265334	7.539474411	2.914464	
LINC02814	1.100642416	2.222345463	2.019134852	1.013737	MARK2P11	0.829826533	0	547.0328046	9.095484	SNORA5C	1.100642416	8.298265334	7.539474411	2.914464	
LINC01684	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
SPATA3-AS1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC00595	1.100642416	8.298265334	7.539474411	2.914464	
NUDCP2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01804	1.100642416	8.298265334	7.539474411	2.914464	
RPS2P35	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01719	1.100642416	8.298265334	7.539474411	2.914464	
MRPL50P2	1.100642416	2.222345463	2.019134852	1.013737	SIRLNT	0.829826533	0	547.0328046	9.095484	FOXP4-AS1	1.100642416	8.298265334	7.539474411	2.914464	
RPL7P24	1.100642416	2.222345463	2.019134852	1.013737	LINC01170	0.829826533	0	547.0328046	9.095484	ACTG1P25	1.100642416	8.298265334	7.539474411	2.914464	
RPL13P5	1.100642416	2.222345463	2.019134852	1.013737	IGLV1-62	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
KRBOX1	1.100642416	2.222345463	2.019134852	1.013737	DSTNP3	0.829826533	0	547.0328046	9.095484	SLC20A1-DT	1.100642416	8.298265334	7.539474411	2.914464	
RPS23P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
EEF1A1P10	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPS30-DT	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TGFB3-AS1	1.100642416	8.298265334	7.539474411	2.914464	
PANCR	1.100642416	2.222345463	2.019134852	1.013737	MRPL49P2	0.829826533	0	547.0328046	9.095484	SSTR5-AS1	1.100642416	8.298265334	7.539474411	2.914464	
NCAPGP1	1.100642416	2.222345463	2.019134852	1.013737	RPL21P59	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
CCT5P1	1.100642416	2.222345463	2.019134852	1.013737	CCT3P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TEX101P1	1.100642416	8.298265334	7.539474411	2.914464	
CIDECP2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RNA5-8SN1	1.100642416	8.298265334	7.539474411	2.914464	
SERPINE3	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	NDUFB9P3	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
GUSBP14	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
PPIAP84	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
UBQLN1-AS	1.100642416	2.222345463	2.019134852	1.013737	SLIT3-AS2	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	8.298265334	7.539474411	2.914464	
OR2AT1P	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	GAREM2	22.01284833	165.1354801	7.501777039	2.907232	
ANKRD33BP	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH12	16.50963624	123.6441535	7.489211249	2.904814	
RRM1-AS1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	USP49	13.207709	98.74935747	7.476645458	2.902391	
PRECSIT	1.100642416	2.222345463	2.019134852	1.013737	MTND2P32	0.829826533	0	547.0328046	9.095484	ANLN	128.7751627	962.5987787	7.475034459	2.90208	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	HMGB2	275.1606041	2054.650497	7.467095457	2.900547	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	LINC02839	0.829826533	0	547.0328046	9.095484	ELAVL4	11.00642416	82.1528268	7.464079667	2.899964	
ODC1-DT	1.100642416	2.222345463	2.019134852	1.013737	CD8B2	0.829826533	0	547.0328046	9.095484	MT-TP	16.50963624	122.8143269	7.438948086	2.895099	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	MTND6P3	0.829826533	0	547.0328046	9.095484	ENTPD2	129.8758051	963.4286052	7.418076094	2.891045	
LINC02305	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	GLDC	33.01927249	244.7988273	7.413816504	2.890216	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	FFAR4	6.603854498	48.95976547	7.413816504	2.890216	

GOLGA8VP	1.100642416	2.222345463	2.019134852	1.013737	HMGB1P46	0.829826533	0	547.0328046	9.095484	KCNG3	19.81156349	146.8792964	7.413816504	2.890216	
PRELID1P4	1.100642416	2.222345463	2.019134852	1.013737	MTND6P20	0.829826533	0	547.0328046	9.095484	CDH7	26.41541799	195.8390619	7.413816504	2.890216	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	CHAF1B	170.5995745	1261.336331	7.3935491	2.886267	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	MIAT	27.51606041	203.3075007	7.388684923	2.885318	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	KNSTRN	36.32119974	268.0339703	7.379546166	2.883532	
HERC2P8	1.100642416	2.222345463	2.019134852	1.013737	BTF3P3	0.829826533	0	547.0328046	9.095484	SGO2	139.7815869	1031.474381	7.379186373	2.883462	
DISC1FP1	1.100642416	2.222345463	2.019134852	1.013737	LINC00824	0.829826533	0	547.0328046	9.095484	FANCB	48.42826632	356.8254093	7.36812272	2.881297	
STAG1-DT	1.100642416	2.222345463	2.019134852	1.013737	IGKV2D-14	0.829826533	0	547.0328046	9.095484	SRSF12	45.12633907	331.9306133	7.355584792	2.87884	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD44-IT	4.402569665	32.3632348	7.350987551	2.877938	
IL9RP4	1.100642416	2.222345463	2.019134852	1.013737	LINC01111	0.829826533	0	547.0328046	9.095484	DLGAP1	55.03212081	404.1255217	7.343448077	2.876458	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TICRR	59.43469048	435.65893	7.330044567	2.873822	
C19orf84	1.100642416	2.222345463	2.019134852	1.013737	LINC03021	0.829826533	0	547.0328046	9.095484	ZDHHC15	29.71734524	217.4145517	7.316082577	2.871071	
HNRNPCP4	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	GFI1	26.41541799	192.5197557	7.288158598	2.865554	
SH3GL1P2	1.100642416	2.222345463	2.019134852	1.013737	MTND1P6	0.829826533	0	547.0328046	9.095484	CPA1	3.301927249	24.06496947	7.288158598	2.865554	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	DHRS2	3.301927249	24.06496947	7.288158598	2.865554	
CBX3P2	1.100642416	2.222345463	2.019134852	1.013737	PHB1P17	0.829826533	0	547.0328046	9.095484	XRCC3	26.41541799	191.6899292	7.256744121	2.859322	
MIR4746	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	TDGP1	31.91863007	231.5216028	7.253494347	2.858676	
IGBP1C	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	79.6633472	7.237895435	2.85557	
POLR3GP2	1.100642416	2.222345463	2.019134852	1.013737	CAPS2-AS1	0.829826533	0	547.0328046	9.095484	SOX30	13.207709	95.43005134	7.225329644	2.853063	
RPIAP1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	TIMELESS	234.4368347	1692.016302	7.217365411	2.851472	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	THAP12P4	0.829826533	0	547.0328046	9.095484	PRRT4	7.704496914	55.59837774	7.216354079	2.85127	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	LINC02749	0.829826533	0	547.0328046	9.095484	ELOVL2	71.54175706	516.1521038	7.214697052	2.850939	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	SUGT1P4	0.829826533	0	547.0328046	9.095484	CDC25B	141.9828717	1024.005942	7.212179398	2.850435	
LETM1P2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	JPT1	220.1284833	1587.458158	7.211507274	2.850301	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	FBXO3-DT	0.829826533	0	547.0328046	9.095484	MELTF	91.35332055	658.052441	7.203377359	2.848673	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	MRGPRX7P	0.829826533	0	547.0328046	9.095484	TP73	78.14561156	561.7925631	7.189048136	2.845801	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ARL14EP-D	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	47.3001124	7.162500691	2.840463	
IGHV3OR16-	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	LINC02894	6.603854498	47.3001124	7.162500691	2.840463	
SMC2-DT	1.100642416	2.222345463	2.019134852	1.013737	BBOX1-AS1	0.829826533	0	547.0328046	9.095484	ABCA12	50.62955115	362.6341951	7.162500691	2.840463	
LAMB2P1	1.100642416	2.222345463	2.019134852	1.013737	LINC02686	0.829826533	0	547.0328046	9.095484	TOB2P1	4.402569665	31.53340827	7.162500691	2.840463	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	CFHR3	2.201284833	15.76670413	7.162500691	2.840463	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	FADS6	2.201284833	15.76670413	7.162500691	2.840463	
NAMA	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	VTRNA1-3	2.201284833	15.76670413	7.162500691	2.840463	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	15.76670413	7.162500691	2.840463	
ATP1B3P1	1.100642416	2.222345463	2.019134852	1.013737	COX6CP5	0.829826533	0	547.0328046	9.095484	CIT	278.4625313	1993.243333	7.158030647	2.839563	
SAP30P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	BRCA1	574.5353413	4099.343075	7.135058159	2.834925	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	RN7SL3	88.0513933	628.1786858	7.134227662	2.834757	
INTS4P2	1.100642416	2.222345463	2.019134852	1.013737	OR4A11P	0.829826533	0	547.0328046	9.095484	SNORD3A	86.95075089	619.8804204	7.129097956	2.83372	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC6A17	25.31477557	180.0723577	7.113330205	2.830525	
FOXD4L6	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	SFR1	7.704496914	54.7685512	7.108647302	2.829575	
NOL12	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	PITPNM2	222.3297681	1579.98972	7.106514495	2.829142	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	LINC02695	0.829826533	0	547.0328046	9.095484	GINS1	71.54175706	507.8538384	7.098705138	2.827556	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	SENCR	0.829826533	0	547.0328046	9.095484	SARDH	42.92505424	303.7165112	7.075506755	2.822833	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ANKRD33B	0.829826533	0	547.0328046	9.095484	OLFM1	78.14561156	552.6644712	7.072239377	2.822167	
XKR5	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	46.47028587	7.036842784	2.814928	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	OR52N1	3.301927249	23.23514293	7.036842784	2.814928	
RNA5-8SN1	1.100642416	2.222345463	2.019134852	1.013737	FDPSP4	0.829826533	0	547.0328046	9.095484	DSP-AS1	3.301927249	23.23514293	7.036842784	2.814928	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	SYS1-DBND	0.829826533	0	547.0328046	9.095484	LINC00907	3.301927249	23.23514293	7.036842784	2.814928	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	FAM241B	14.30835141	100.4090105	7.017510798	2.810959	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	NT5C1A	4.402569665	30.70358173	6.97401383	2.801989	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	LMNTD2-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	30.70358173	6.97401383	2.801989	
NDUFAF2P1	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	30.70358173	6.97401383	2.801989	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	EFNB3	13.207709	92.1107452	6.97401383	2.801989	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	OR5M10	0.829826533	0	547.0328046	9.095484	FANCI	279.5631737	1948.4327	6.969561385	2.801068	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	OR4V1P	0.829826533	0	547.0328046	9.095484	HROB	18.71092108	130.2827657	6.962926368	2.799694	
METTL14-DT	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	PPFIA3	20.91220591	145.2196433	6.944252747	2.795819	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	ZNF726	44.02569665	305.3761643	6.936316458	2.79417	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LIFR	1283.349057	8882.463213	6.921315103	2.791046	
OR8B2	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	VAMP7	14.30835141	98.74935747	6.901518884	2.786914	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	LINC00678	0.829826533	0	547.0328046	9.095484	WDR17	107.8629568	744.3544004	6.900927089	2.78679	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LYPD6	7.704496914	53.10889814	6.893233747	2.785181	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	OR4A19P	0.829826533	0	547.0328046	9.095484	KCNJ6	8.80513933	60.57733694	6.8797704	2.78236	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	60.57733694	6.8797704	2.78236	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	FHDC1	239.9400468	1650.524975	6.878905782	2.782179	
ENSG000002	1.100642416	2.222345463	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRCC1	195.9143501	1345.978637	6.870240166	2.780361	
LRRC37A11P	1.100642416	2.222345463	2.019134852	1.013737	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	68.04577574	6.869298908	2.780163	
TMEM191A	1.100642416	2.222345463	2.019134852	1.013737	LINC02324	0.829826533	0	547.0328046	9.095484	ZMAT4	119.9700234	822.3580946	6.85469646	2.777093	
RANGRF	71.54175706	144.4524551	2.019134852	1.013737	ENSG000002	0.829826533	0	547.0328046	9.095484	PAQR4	71.54175706	489.5976547	6.843522927	2.774739	
KLHDC3	626.2655349	1263.403396	2.017360569	1.012469	COX5BP4	0.829826533	0	547.0328046	9.095484	MSH2	825.4818122	5647.799386	6.841821712	2.774381	
CRABP2	244.3426164	492.24952	2.014587251	1.010484	ENSG000000	0.829826533	0	547.0328046	9.095484	LYVE1	23.11349074	157.6670413	6.821429229	2.770074	
LRP12	457.8672452	922.2733671	2.014281163	1.010265	SUGT1P4-S1	0.829826533	0	547.0328046	9.095484	TLL2	31.91863007	217.4145517	6.811525158	2.767978	
COPS7A	301.5760221	606.7003114	2.011765747	1.008462	BCAS2P1	0.829826533	0	547.0328046	9.095484	HELLPAR	33.01927249	224.8829905	6.810658552	2.767794	
ARFGEF3	5146.603939	10350.57399	2.011146402	1.008018	ENSG000000	0.829826533	0	547.0328046	9.095484	IL17RB	145.284799	987.4935747	6.796950416	2.764888	
ARG2	580.0385534	1165.620195	2.009556414	1.006877	OR5B10P	0.829826533	0	547.0328046	9.095484	ATP4A	5.503212081	37.342194	6.78552697	2.762461	
ZNF443	346.7023611	696.7053026	2.009519925	1.006851	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	37.342194	6.78552697	2.762461	
PSMD10	100.1584599	201.1222644	2.008040705	1.005789	TTC12-DT	0.829826533	0	547.0328046	9.095484	KCNMB2	6.603854498	44.8106328	6.78552697	2.762461	
TMPPE	94.6552478	190.0105371	2.007395696	1.005325	ENSG000000	0.829826533	0	547.0328046	9.095484	MYCBP	6.603854498	44.8106328	6.78552697	2.762461	
LTBP3	1590.428292	3191.288085	2.006558926	1.004724	ENSG000000	0.829826533	0	547.0328046	9.095484	HTR3A	3.301927249	22.4053164	6.78552697	2.762461	
SLC10A3	247.6445437	496.694211	2.005673953	1.004087	OR5AM1P	0.829826533	0	547.0328046	9.095484	LINC02975	3.301927249	22.4053164	6.78552697	2.762461	
COMMD9	82.54818122	165.564737	2.005673953	1.004087	ENSG000000	0.829826533	0	547.0328046	9.095484	UBE2SP1	4.402569665	29.8737552	6.78552697	2.762461	
DCUN1D3	82.54818122	165.564737	2.005673953	1.004087	CCDC166	0.829826533	0	547.0328046	9.095484	FAM88B	2.201284833	14.9368776	6.78552697	2.762461	
FBXO33	226.7323378	454.4696472	2.004432414	1.003194	ENSG000000	0.829826533	0	547.0328046	9.095484	AVPR1B	2.201284833	14.9368776	6.78552697	2.762461	
UNC13D	146.3854414	293.3496011	2.003953387	1.002849	LINC02690	0.829826533	0	547.0328046	9.095484	ANKHD1-DT	2.201284833	14.9368776	6.78552697	2.762461	
CD83	68.23982981	136.674246	2.002851507	1.002055	CHKA-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	14.9368776	6.78552697	2.762461	
THTPA	61.63597531	123.3401732	2.001106863	1.000798	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	14.9368776	6.78552697	2.762461	
SPPL2B	169.4989321	338.9076831	1.999467955	0.999616	ENSG000002	0.829826533	0	547.0328046	9.095484	IGFALS	1.100642416	7.4684388	6.78552697	2.762461	
NFE2L1	2633.837302	5265.847574	1.999306324	0.9995	ENSG000000	0.829826533	0	547.0328046	9.095484	ACTL7B	1.100642416	7.4684388	6.78552697	2.762461	
TM7SF2	277.3618889	554.475193	1.999103753	0.999353	OR4A50P	0.829826533	0	547.0328046	9.095484	TNNI1	1.100642416	7.4684388	6.78552697	2.762461	
DUS3L	159.5931504	318.9065739	1.998247251	0.998735	ENSG000000	0.829826533	0	547.0328046	9.095484	SBSN	1.100642416	7.4684388	6.78552697	2.762461	
UBE2E3	464.4710997	927.8292308	1.997603794	0.99827	ENSG000002	0.829826533	0	547.0328046	9.095484	RNA5SP145	1.100642416	7.4684388	6.78552697	2.762461	
REXO2	308.1798766	615.5896932	1.997501265	0.998196	LINC02756	0.829826533	0	547.0328046	9.095484	Y_RNA.94	1.100642416	7.4684388	6.78552697	2.762461	
IRF2BP1	250.9464709	501.1389019	1.996995216	0.997831	TMEM123-D	0.829826533	0	547.0328046	9.095484	SNORA80E	1.100642416	7.4684388	6.78552697	2.762461	
NUP188	980.6723929	1957.886353	1.996473406	0.997454	MTCO1P15	0.829826533	0	547.0328046	9.095484	MIR553	1.100642416	7.4684388	6.78552697	2.762461	
GPX4	1548.60388	3091.282539	1.996173831	0.997237	ASS1P13	0.829826533	0	547.0328046	9.095484	CERS1	1.100642416	7.4684388	6.78552697	2.762461	
NRIP1	3731.177791	7445.968473	1.99560806	0.996828	PATL1-DT	0.829826533	0	547.0328046	9.095484	OSTCP8	1.100642416	7.4684388	6.78552697	2.762461	
ZNF471	326.8907976	652.2583934	1.995340334	0.996635	LINC02761	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461	
HARBI1	46.22698148	92.22733671	1.995097533	0.996459	PCDHA3	0.829826533	0	547.0328046	9.095484	GAPDHP1	1.100642416	7.4684388	6.78552697	2.762461	
DPM3	89.15203572	177.787637	1.994207262	0.995815	RSF1-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461	
BACH1	1309.764475	2611.255919	1.993683573	0.995436	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461	
NUDT2	42.92505424	85.56030032	1.993248508	0.995122	ENSG000000	0.829826533	0	547.0328046	9.095484	PRR7-AS1	1.100642416	7.4684388	6.78552697	2.762461	
HECA	211.3233439	421.1344652	1.992844034	0.994829	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461	

FGR	40.7237694	81.11560939	1.991849246	0.994108	LINC02951	0.829826533	0	547.0328046	9.095484	ODC1-DT	1.100642416	7.4684388	6.78552697	2.762461
OTOGL	40.7237694	81.11560939	1.991849246	0.994108	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
YIF1A	241.0406892	480.02662	1.991475471	0.993838	OR8A2P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
CGRRF1	117.7687385	234.4574463	1.990829224	0.993369	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
FASTK	234.4368347	466.6925472	1.990696333	0.993273	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
APOO	116.6680961	232.2351009	1.990562189	0.993176	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
GPSM1	155.1905807	308.9060193	1.990494642	0.993127	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC03060	1.100642416	7.4684388	6.78552697	2.762461
ESYT3	77.04496914	153.3418369	1.990290069	0.992979	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
TTLL6	38.52248457	76.67091847	1.990290069	0.992979	ENSG000002	0.829826533	0	547.0328046	9.095484	RN7SL600P	1.100642416	7.4684388	6.78552697	2.762461
PPP1R12C	469.9743118	934.4962671	1.988398608	0.991607	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
SANBR	107.8629568	214.4563372	1.988229727	0.991484	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
BTBD19	35.22055732	70.00388208	1.98758587	0.991017	RERG-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
SSBP4	169.4989321	336.6853376	1.986356689	0.990125	LINC02700	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
RAP2A	101.2591023	201.1222644	1.986214176	0.990021	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
SH3PXD2A	966.3640415	1918.995307	1.985789231	0.989713	OR4D2	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	7.4684388	6.78552697	2.762461
USP19	530.5096447	1053.391749	1.985622241	0.989591	IFNG-AS1	0.829826533	0	547.0328046	9.095484	MMP24	12.10706658	82.1528268	6.78552697	2.762461
AGT	99.05781747	196.6775735	1.985482605	0.98949	ENSG000002	0.829826533	0	547.0328046	9.095484	B3GALT9	7.704496914	52.2790716	6.78552697	2.762461
TRIM28	1016.993593	2019.000853	1.985264084	0.989331	GNAI2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	19.81156349	133.6020719	6.743641001	2.753528
CBX8	64.93790256	128.8960368	1.984912228	0.989075	ENSG000002	0.829826533	0	547.0328046	9.095484	PIP5K1B	51.73019357	348.527144	6.737402665	2.752193
XPO6	1798.449708	3569.086813	1.984535234	0.988801	KLRC4-KLR	0.829826533	0	547.0328046	9.095484	ATP5MK	67.13918739	450.5958076	6.711368205	2.746607
FBXL12	124.372593	246.6803464	1.983397952	0.987974	ENSG000002	0.829826533	0	547.0328046	9.095484	C2orf15	11.00642416	73.85456147	6.710132226	2.746341
PECR	91.35332055	181.1211552	1.982644464	0.987426	ENSG000002	0.829826533	0	547.0328046	9.095484	MCM6	416.0428334	2790.706632	6.707738742	2.745826
CDC34	150.788011	298.9054648	1.982289326	0.987168	ENSG000002	0.829826533	0	547.0328046	9.095484	BRINP1	37.42184215	250.6076131	6.696827271	2.743478
INPPL1	1346.085675	2667.925728	1.981988054	0.986948	ENSG000002	0.829826533	0	547.0328046	9.095484	GTSE1	56.13276323	375.9114196	6.696827271	2.743478
CARD19	86.95075089	172.2317734	1.980796849	0.986081	ARAP1-AS1	0.829826533	0	547.0328046	9.095484	TK1	36.32119974	243.1391743	6.694139402	2.742899
BAHCC1	85.85010847	170.0094279	1.980305336	0.985723	ELOCP31	0.829826533	0	547.0328046	9.095484	KREMEN2	7.704496914	51.44924507	6.677820193	2.739377
HEY1	28.61670282	56.6698093	1.980305336	0.985723	CBX3P4	0.829826533	0	547.0328046	9.095484	TP53I3	58.33404806	389.1886441	6.671723583	2.73806
CELSR3	112.2655265	222.2345463	1.979543973	0.985168	ENSG000002	0.829826533	0	547.0328046	9.095484	EMC3-AS1	14.30835141	95.43005134	6.669535056	2.737586
LRRCC1	195.9143501	387.7992833	1.979432763	0.985087	A2MP1	0.829826533	0	547.0328046	9.095484	PSRC1	26.41541799	175.9232251	6.659869063	2.735494
AKTIS1	193.7130653	383.3545923	1.978981603	0.984758	ENSG000002	0.829826533	0	547.0328046	9.095484	IRS4	6.603854498	43.98080627	6.659869063	2.735494
DRAP1	346.7023611	685.5935753	1.977470165	0.983656	LINC01152	0.829826533	0	547.0328046	9.095484	FAM81B	6.603854498	43.98080627	6.659869063	2.735494
RAB11B	770.4496914	1523.417815	1.977309916	0.983539	ENSG000002	0.829826533	0	547.0328046	9.095484	ADRA2B	6.603854498	43.98080627	6.659869063	2.735494
PDZD7	26.41541799	52.22511838	1.977069543	0.983364	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	43.98080627	6.659869063	2.735494
CNTNAP2	551.4218506	1090.06045	1.976817655	0.98318	ENSG000002	0.829826533	0	547.0328046	9.095484	PRKACB	704.4111464	4688.519914	6.655942254	2.734643
NEXMIF	206.9207743	408.9115652	1.976174536	0.98271	ENSG000002	0.829826533	0	547.0328046	9.095484	ULBP3	12.10706658	80.49317374	6.648445617	2.733017
KLHL25	128.7751627	254.4585555	1.975990945	0.982576	OSBPL9P4	0.829826533	0	547.0328046	9.095484	SEMA3A	188.2098532	1249.718759	6.640028341	2.731189
TNFRSF10B	102.3597447	202.2334371	1.975712598	0.982373	TAS2R31	0.829826533	0	547.0328046	9.095484	B3GNT8	22.01284833	146.0494699	6.634737482	2.730039
TRPV1	101.2591023	200.0110917	1.975240617	0.982028	DNAJB6P5	0.829826533	0	547.0328046	9.095484	MT1F	17.61027866	116.1757147	6.59704011	2.721819
SCARA3	227.8329802	450.0249562	1.975240617	0.982028	ENSG000002	0.829826533	0	547.0328046	9.095484	SULT4A1	8.80513933	58.08785734	6.59704011	2.721819
RASD1	100.1584599	197.7887462	1.974758262	0.981676	MRGPRF-AS	0.829826533	0	547.0328046	9.095484	LIFR-AS1	8.80513933	58.08785734	6.59704011	2.721819
TPCN1	722.0214251	1425.634614	1.974504585	0.981491	ENSG000002	0.829826533	0	547.0328046	9.095484	VAX2	4.402569665	29.04392867	6.59704011	2.721819
NDFIP1	1078.629568	2129.006953	1.973807335	0.980981	LINC02390	0.829826533	0	547.0328046	9.095484	CBX3P9	4.402569665	29.04392867	6.59704011	2.721819
UPF1	1101.743059	2174.565035	1.973749703	0.980939	AK6P1	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	29.04392867	6.59704011	2.721819
RPUSD2	48.42826632	95.5608549	1.973245424	0.98057	LINC01965	0.829826533	0	547.0328046	9.095484	CEROX1	4.402569665	29.04392867	6.59704011	2.721819
SMPD2	72.64239948	143.3412824	1.973245424	0.98057	RERG-IT1	0.829826533	0	547.0328046	9.095484	WNT9A	42.92505424	282.1410213	6.572875128	2.716525
MMS19	333.4946521	657.814257	1.972488173	0.980017	ENSG000002	0.829826533	0	547.0328046	9.095484	PKHD1L1	117.7687385	773.3983291	6.567093599	2.715255
MED25	422.6466879	833.3795486	1.971811379	0.979522	CLEC12B	0.829826533	0	547.0328046	9.095484	MED30	51.73019357	338.5692256	6.544905446	2.710372
ZNF543	209.1220591	412.2450834	1.971313238	0.979157	ENSG000002	0.829826533	0	547.0328046	9.095484	STMN3	112.2655265	733.5666555	6.534211156	2.708013
LYSMD1	92.45396297	182.232328	1.971060213	0.978972	BTG1P1	0.829826533	0	547.0328046	9.095484	TMEM198	13.207709	86.30195947	6.534211156	2.708013
NDUFAF3	208.0214167	410.0227379	1.971060213	0.978972	ENSG000002	0.829826533	0	547.0328046	9.095484	CHAC1	3.301927249	21.57548987	6.534211156	2.708013
PCDHGB2	160.6937928	316.6842285	1.970730935	0.978731	ENSG000002	0.829826533	0	547.0328046	9.095484	GSDMA	3.301927249	21.57548987	6.534211156	2.708013
ACCS	159.5931504	314.461883	1.970397115	0.978486	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	21.57548987	6.534211156	2.708013
IFT140	609.7558986	1201.177723	1.969932108	0.978146	ENSG000002	0.829826533	0	547.0328046	9.095484	NEXMIF	206.9207743	1349.297943	6.520843294	2.705059
PROX1	67.13918739	132.229555	1.969483995	0.977818	TPT1P12	0.829826533	0	547.0328046	9.095484	TRAF3IP2-AS	5.503212081	35.68254093	6.483947994	2.696873
ARHGAP32	1947.036434	3834.657096	1.969483995	0.977818	ENSG000002	0.829826533	0	547.0328046	9.095484	NTNG1	161.7944352	1048.070912	6.477793321	2.695502
SPCS3	309.280519	608.9226568	1.96883612	0.977343	SLC5A8	0.829826533	0	547.0328046	9.095484	PLS1	150.788011	975.0461767	6.466337543	2.692949
RPLP0P9	22.01284833	43.33573653	1.968656481	0.977211	KRT17P8	0.829826533	0	547.0328046	9.095484	CPE	2224.398323	14370.9359	6.460594649	2.691667
MDGA1	280.6638162	552.2528475	1.967666709	0.976486	PPP1R14B-A	0.829826533	0	547.0328046	9.095484	MTND4P12	9.905781747	63.89664307	6.450439219	2.689397
FLRT2	451.2633907	887.8270124	1.967425301	0.976309	TMEM109-I	0.829826533	0	547.0328046	9.095484	DTYMK	68.23982981	439.8080627	6.445034577	2.688188
PANX1	128.7751627	253.3473828	1.967362164	0.976263	ENSG000002	0.829826533	0	547.0328046	9.095484	TLE6	14.30835141	92.1107452	6.437551228	2.686512
SMOC1	85.85010847	168.8982552	1.967362164	0.976263	ENSG000002	0.829826533	0	547.0328046	9.095484	NGF	16.50963624	106.2177963	6.433684831	2.685645
ZNF727	84.74946605	166.6759097	1.966689791	0.975769	ENSG000002	0.829826533	0	547.0328046	9.095484	GPSM2	230.034265	1479.580709	6.432001376	2.685268
GASK1B	504.0942267	991.1660764	1.966231756	0.975433	C11orf97	0.829826533	0	547.0328046	9.095484	FBN3	89.15203572	572.580308	6.422515239	2.683138
ISM1	83.64882364	164.4535643	1.965999725	0.975263	LINC02703	0.829826533	0	547.0328046	9.095484	CACYBP	408.3383364	2622.251845	6.421762571	2.682969
SLC7A9	20.91220591	41.11339106	1.965999725	0.975263	RPEP6	0.829826533	0	547.0328046	9.095484	ZNF724	17.61027866	112.8564085	6.40855325	2.679999
OR2B6	20.91220591	41.11339106	1.965999725	0.975263	ENSG000002	0.829826533	0	547.0328046	9.095484	MYLK3	4.402569665	28.21410213	6.40855325	2.679999
TMEM222	184.9079259	363.3534832	1.965050883	0.974567	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	28.21410213	6.40855325	2.679999
ATG16L2	266.3554647	523.3623565	1.964901892	0.974457	CLLU1	0.829826533	0	547.0328046	9.095484	CATSPER3	2.201284833	14.10705107	6.40855325	2.679999
SIGIRR	143.0835141	281.1267011	1.96477353	0.974363	ENSG000002	0.829826533	0	547.0328046	9.095484	SELENOV	2.201284833	14.10705107	6.40855325	2.679999
PLEKHA6	725.3233523	1424.523442	1.963983976	0.973783	ENSG000002	0.829826533	0	547.0328046	9.095484	DAPK1-IT1	2.201284833	14.10705107	6.40855325	2.679999
CDK2AP2	80.34689639	157.7865279	1.963816089	0.97366	ENSG000002	0.829826533	0	547.0328046	9.095484	DUT-AS1	2.201284833	14.10705107	6.40855325	2.679999
NAALADL2	1134.762331	2227.901327	1.963319777	0.973295	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPE	220.1284833	1410.705107	6.40855325	2.679999
CCDC22	114.4668113	224.4568918	1.960890578	0.971509	ENSG000002	0.829826533	0	547.0328046	9.095484	TUBB8B	6.603854498	42.3211532	6.40855325	2.679999
METTL26	171.7002169	336.6853376	1.960890578	0.971509	LNCOG	0.829826533	0	547.0328046	9.095484	MSH6	1549.704522	9928.874472	6.406946827	2.679637
CEP170B	1350.488245	2646.813446	1.959893732	0.970775	KIRREL3-AS	0.829826533	0	547.0328046	9.095484	FBXO5	274.0599617	1750.933985	6.388871891	2.675561
CDAN1	205.8201318	403.3557015	1.959748533	0.970669	ENSG000002	0.829826533	0	547.0328046	9.095484	CXCR2	9.905781747	63.06681654	6.366667281	2.670538
CASQ2	18.71092108	36.66870014	1.959748533	0.970669	ENSG000002	0.829826533	0	547.0328046	9.095484	KIT	594.3469048	3781.519513	6.362478684	2.669589
ENAM	18.71092108	36.66870014	1.959748533	0.970669	ENSG000002	0.829826533	0	547.0328046	9.095484	FSIP2	72.64239948	461.3835526	6.351436019	2.667083
SLC17A4	18.71092108	36.66870014	1.959748533	0.970669	ENSG000002	0.829826533	0	547.0328046	9.095484	DARS2	337.8972218	2145.931415	6.35084066	2.666948
SLC45A2	18.71092108	36.66870014	1.959748533	0.970669	HNRNPA1P	0.829826533	0	547.0328046	9.095484	SLC35G1	16.50963624	104.5581432	6.333158505	2.662925
ANKS6	370.9164943	726.7069664	1.959219872	0.970279	ENSG000002	0.829826533	0	547.0328046	9.095484	ADCY1	72.64239948	459.7238995	6.328589127	2.661884
CSF1	294.9721676	577.8098203	1.95886217	0.970016	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC88A	767.1477642	4845.357128	6.316067588	2.659027
EFR3B	73.74304189	144.4524551	1.95886217	0.970016	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC25A33	97.95717505	618.2207674	6.311133075	2.657899
FAM20B	423.7473303	830.0460304	1.958823032	0.969987	VENTXP3	0.829826533	0	547.0328046	9.095484	KCNH3	12.10706658	76.34404107	6.305742235	2.656666
CCDC9	202.5182046	396.6886651	1.958780278	0.969956	ENSG000002	0.829826533	0	547.0328046	9.095484	PLOD2	436.9550393	2753.364438	6.301253425	2.655639
ARMH4	183.8072835	360.019965	1.958681713	0.969883	ENSG000002	0.829826533	0	547.0328046	9.095484	ZBTB7C	93.55460539	589.1768387	6.297678626	2.65482
UHRF2	729.725922	1428.968133	1.958225807	0.969547	ENSG000002	0.829826533	0	547.0328046	9.095484	PHTF1	272.9593192	1718.570751	6.296069156	2.654451
CDO1	36.32119974	71.11505481	1.957948948	0.969343	ENSG000002	0.829826533	0	547.0328046	9.095484	LPGAT1	886.0171451	5572.285172	6.289139214	2.652863
DYNLT3	126.5738779	247.7915191	1.957682922	0.969147	PPFIA2-AS1	0.829826533	0	547.0328046	9.095484	APOLD1	45.12633907	283.8006744	6.289024997	2.652836
TWF2	53.9314784	105.5614095	1.957324602	0.968883	LINC01154	0.829826533	0	547.0328046	9.095484	PSMC3IP	33.01927249	207.4566333	6.282895343	2.65143
RPS14	555.8244202	1087.838104	1.957161407	0.968763	PAFAH1B2P	0.829826533	0	547.0328046	9.095484	ITGA2B	9.905781747	62.23699	6.282895343	2.65143
TMEM234	141.9828717	277.7931829	1.95652602	0.968294	SFTA3.1	0.829826533	0	547.0328046	9.095484	GPR83	3.301927249	20.74566333	6.282895343	2.65143
CIRBP	1704.895103	3333.518194	1.95526293	0.967363	ENSG000002	0.829826533	0	547.0328046	9.095484	TRAM2-AS1	3.301927249	20.74566333	6.282895343	2.65143
LPL	51.73019357	101.1167186	1.954694378	0.966943	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM15-AS1	3.301927249	20.74566333	6.282895343	2.65143
NDUFA13	34.11991491	66.67036389	1.95400147	0.966432	ENSG000002	0.829826533	0	547.0328046	9.095484	QSOX2	221.2291257	1384.150658	6.256638467	2.645388
ENSG000002	34.11991491	66.67036389	1.95400147	0.966432	GALNT4	0.829826533	0	547.0328046	9.095484	BDKRB1	7.704496914	48.12993894	6.246993084	2.643162
HAGH	203.618847	397.7998379	1.953649398	0.966172	ENSG000002	0.829826533	0	547.0328046	9.095484	NTF3	16.50963624	102.8984901	6.23263218	2.639842
TGOLN2	169.4989321	331.129474	1.953578526	0.966119	C12orf75-AS	0.829826533	0	547.0328046	9.095484	DLEU2L	4.402569665	27.3842756	6.220066389	2.63693
FOXD2	100.1584599	195.5664007	1.952569967	0.965374	ENSG000002	0.829826533	0	547.0328046	9.095484	HNRNPA1P1	4.402569665	27.3842756	6.220066389	2.63693
POFUT1	315.8843735	616.7008659	1.952299378	0.965174	ENSG000002	0.829826533	0	547.0328046	9.095484	DPY19L2P2	4.402569665	27.3842756	6.220066389	2.63693
ZNF416	112.2655265	218.9010281	1.949850813	0.963364	KRT7-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	14.30835141	88.79143907	6.2055674	2.633563

PDE11A	1298.758051	2532.362655	1.949834038	0.963351	ENSG000002	0.829826533	0	547.0328046	9.095484	DNAJC9	166.1970049	1029.814728	6.1963495	2.631419
EGR1	1081.931495	2109.005844	1.949297024	0.962954	ENSG000002	0.829826533	0	547.0328046	9.095484	LINGO1	73.74304189	456.4045934	6.189120785	2.629734
GPN2	237.7387619	463.359029	1.949026003	0.962753	CPNE8-AS1	0.829826533	0	547.0328046	9.095484	TIAM1	370.9164943	2294.470365	6.18594859	2.628995
SYT17	424.8479727	827.8236849	1.948517442	0.962377	LINC02399	0.829826533	0	547.0328046	9.095484	SLC16A10	16.50963624	102.0686636	6.182369017	2.62816
TMEM185A	140.8822293	274.4596647	1.948149643	0.962104	ENSG000002	0.829826533	0	547.0328046	9.095484	HSPE1P2	5.503212081	34.02288787	6.182369017	2.62816
HMG20B	672.4925164	1310.07265	1.948085099	0.962057	ENSG000002	0.829826533	0	547.0328046	9.095484	RCOR2	27.51606041	170.1144393	6.182369017	2.62816
GET3	292.7708827	570.0316112	1.947022893	0.96127	ENSG000002	0.829826533	0	547.0328046	9.095484	GABRG3	56.13276323	346.0376644	6.164629077	2.624014
PSD	15.40899383	30.00166375	1.947022893	0.96127	ENSG000002	0.829826533	0	547.0328046	9.095484	LEMD1	6.603854498	40.66150013	6.157237436	2.622283
ENSG000002	15.40899383	30.00166375	1.947022893	0.96127	KRT18P20	0.829826533	0	547.0328046	9.095484	DDX12B	19.81156349	121.9845004	6.157237436	2.622283
CFL1	1733.511806	3374.631585	1.946702396	0.961032	ENSG000002	0.829826533	0	547.0328046	9.095484	CFAP65	28.61670282	175.9232251	6.147571443	2.620017
PLEKHM3	531.6102871	1034.501813	1.945977793	0.960495	LINC02395	0.829826533	0	547.0328046	9.095484	THBS3-AS1	14.30835141	87.96161254	6.147571443	2.620017
UBXN6	834.2869516	1623.423361	1.945881279	0.960424	ENSG000002	0.829826533	0	547.0328046	9.095484	DCTPP1	89.15203572	547.685512	6.143275446	2.619008
COL6A2	5068.458327	9861.657992	1.945691837	0.960283	ENSG000002	0.829826533	0	547.0328046	9.095484	PAH	7.704496914	47.3001124	6.139286306	2.618071
CXXC1	316.9850159	616.7008659	1.945520561	0.960156	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC35G2	75.94432672	465.5326852	6.1299205	2.615868
NBL1	301.5760221	586.6992022	1.945443799	0.960099	NOVA1-DT	0.829826533	0	547.0328046	9.095484	GMPSP1	8.80513933	53.93872467	6.125822959	2.614904
BLOC1S1	29.71734524	57.78098203	1.94435208	0.959289	CASC18	0.829826533	0	547.0328046	9.095484	SETP14	11.00642416	67.2159492	6.106974273	2.610458
SH3D21	178.3040714	346.6858922	1.94435208	0.959289	C12orf42-AS	0.829826533	0	547.0328046	9.095484	SCNN1B	24.21413316	146.8792964	6.065849867	2.60071
DNAH1	782.556758	1521.195469	1.943878771	0.958938	ENSG000002	0.829826533	0	547.0328046	9.095484	PLXNA2	573.4346989	3474.483695	6.059074733	2.599098
UCK1	130.9764475	254.4585555	1.942781014	0.958123	ENSG000002	0.829826533	0	547.0328046	9.095484	TRIB2	298.2740948	1804.87271	6.051054186	2.597187
ACTR1A	333.4946521	647.8137024	1.942501021	0.957915	LINC02258	0.829826533	0	547.0328046	9.095484	TMEM107	44.02569665	266.3743172	6.050428215	2.597037
PODXL2	289.4689555	562.2534021	1.942361664	0.957812	TEN1	0.829826533	0	547.0328046	9.095484	NIPSNAP3A	227.8329802	1378.341872	6.04979082	2.596885
RPTOR	723.1220675	1404.522333	1.942303237	0.957768	QRSL1P3	0.829826533	0	547.0328046	9.095484	CHST11	165.0963624	996.6216666	6.036605845	2.593738
KIAA1755	361.0107125	701.1499935	1.942186116	0.957681	ENSG000002	0.829826533	0	547.0328046	9.095484	CHRNA9	5.503212081	33.19306133	6.031579529	2.592536
TONSL	42.92505424	83.33795486	1.94147582	0.957154	ENSG000002	0.829826533	0	547.0328046	9.095484	RSPO4	4.402569665	26.55444907	6.031579529	2.592536
DSC1	14.30835141	27.77931829	1.94147582	0.957154	R3HDM2-DT	0.829826533	0	547.0328046	9.095484	HHATL	2.201284833	13.27722453	6.031579529	2.592536
ZNF114	14.30835141	27.77931829	1.94147582	0.957154	HMGA1P3	0.829826533	0	547.0328046	9.095484	RGS8	2.201284833	13.27722453	6.031579529	2.592536
SLFN14	14.30835141	27.77931829	1.94147582	0.957154	ARHGAP42I	0.829826533	0	547.0328046	9.095484	NKX2-8	2.201284833	13.27722453	6.031579529	2.592536
NUBPL	127.6745203	247.7915191	1.940806345	0.956656	ENSG000002	0.829826533	0	547.0328046	9.095484	OR14K1	2.201284833	13.27722453	6.031579529	2.592536
ERGIC3	1511.182038	2932.384838	1.940457711	0.956397	LINC02823	0.829826533	0	547.0328046	9.095484	TBX10	2.201284833	13.27722453	6.031579529	2.592536
ARHGDIA	1123.755907	2180.120899	1.940030647	0.956079	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL8P3	2.201284833	13.27722453	6.031579529	2.592536
MAPK4	83.64882364	162.2312188	1.939432161	0.955634	ENSG000002	0.829826533	0	547.0328046	9.095484	DNM1P35	2.201284833	13.27722453	6.031579529	2.592536
CRB3	41.82441182	81.11560939	1.939432161	0.955634	ENSG000002	0.829826533	0	547.0328046	9.095484	ARPC3P3	2.201284833	13.27722453	6.031579529	2.592536
ERI3	344.5010763	667.8148116	1.938498477	0.95494	ENSG000002	0.829826533	0	547.0328046	9.095484	CSAG3	2.201284833	13.27722453	6.031579529	2.592536
TMEM179B	520.6038629	1008.94484	1.938027956	0.954589	LINC02424	0.829826533	0	547.0328046	9.095484	H4C14	2.201284833	13.27722453	6.031579529	2.592536
ACOT2	107.8629568	208.9004735	1.936721185	0.953616	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	13.27722453	6.031579529	2.592536
PRUNE2	4449.897289	8614.922187	1.935982255	0.953066	MTND2P17	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	13.27722453	6.031579529	2.592536
ECE1	2444.526807	4732.484663	1.935951224	0.953043	BRWD1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	13.27722453	6.031579529	2.592536
MECOM	425.9486151	824.4901667	1.935656409	0.952823	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	13.27722453	6.031579529	2.592536
STRIP1	372.0171367	720.03993	1.935502048	0.952708	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	13.27722453	6.031579529	2.592536
LHFPL2	66.03854498	127.7848641	1.935004234	0.952337	SNRPF-DT	0.829826533	0	547.0328046	9.095484	ABCG8	1.100642416	6.638612267	6.031579529	2.592536
EFNB3	13.207709	25.55697282	1.935004234	0.952337	ENSG000002	0.829826533	0	547.0328046	9.095484	SIGLEC11	1.100642416	6.638612267	6.031579529	2.592536
MTLN	13.207709	25.55697282	1.935004234	0.952337	NSA2P2	0.829826533	0	547.0328046	9.095484	SPATA48	1.100642416	6.638612267	6.031579529	2.592536
DCC	13.207709	25.55697282	1.935004234	0.952337	PAPLN-AS1	0.829826533	0	547.0328046	9.095484	LINC00311	1.100642416	6.638612267	6.031579529	2.592536
FAU	519.5032205	1004.500149	1.933578291	0.951273	ENSG000002	0.829826533	0	547.0328046	9.095484	C1QL4	1.100642416	6.638612267	6.031579529	2.592536
SCN2A	128.7751627	248.9026918	1.932847038	0.950727	LINC02318	0.829826533	0	547.0328046	9.095484	GUSBP15	1.100642416	6.638612267	6.031579529	2.592536
STK16	88.0513933	170.0094279	1.930797703	0.949197	LINC02320	0.829826533	0	547.0328046	9.095484	RNU5F-1	1.100642416	6.638612267	6.031579529	2.592536
ERCC2	446.860821	862.2700396	1.929616559	0.948314	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPL38	1.100642416	6.638612267	6.031579529	2.592536
AKR1C1	49.52890873	95.5608549	1.929395526	0.948149	ENSG000002	0.829826533	0	547.0328046	9.095484	VSTM5	1.100642416	6.638612267	6.031579529	2.592536
RXRA	654.8822377	1263.403396	1.929206998	0.948008	ENSG000002	0.829826533	0	547.0328046	9.095484	CHCHD3P3	1.100642416	6.638612267	6.031579529	2.592536
CFAP69	1448.44542	2792.377074	1.927844181	0.946988	LINC02313	0.829826533	0	547.0328046	9.095484	KRTAP10-1	1.100642416	6.638612267	6.031579529	2.592536
UBXN8	48.42826632	93.33850944	1.927355996	0.946623	ZFP64P1	0.829826533	0	547.0328046	9.095484	SNORA11	1.100642416	6.638612267	6.031579529	2.592536
KCNJ11	24.21413316	46.66925472	1.927355996	0.946623	DIO3OS	0.829826533	0	547.0328046	9.095484	MTND6P21	1.100642416	6.638612267	6.031579529	2.592536
FER1L4	12.10706658	23.33462736	1.927355996	0.946623	ENSG000002	0.829826533	0	547.0328046	9.095484	TPI1P2	1.100642416	6.638612267	6.031579529	2.592536
CAPSL	12.10706658	23.33462736	1.927355996	0.946623	LINC02295	0.829826533	0	547.0328046	9.095484	FAM27C	1.100642416	6.638612267	6.031579529	2.592536
WDR72	12.10706658	23.33462736	1.927355996	0.946623	FKBP1BP1	0.829826533	0	547.0328046	9.095484	SSR4P1	1.100642416	6.638612267	6.031579529	2.592536
CREG2	12.10706658	23.33462736	1.927355996	0.946623	ENSG000002	0.829826533	0	547.0328046	9.095484	EEF1E1P1	1.100642416	6.638612267	6.031579529	2.592536
H1-10-AS1	12.10706658	23.33462736	1.927355996	0.946623	RHOXF1-AS	0.829826533	0	547.0328046	9.095484	RN7SL146P	1.100642416	6.638612267	6.031579529	2.592536
SGMS1-AS1	12.10706658	23.33462736	1.927355996	0.946623	H1-8P2	0.829826533	0	547.0328046	9.095484	LINC02112	1.100642416	6.638612267	6.031579529	2.592536
ENSG000002	12.10706658	23.33462736	1.927355996	0.946623	ENSG000002	0.829826533	0	547.0328046	9.095484	YPEL3-DT	1.100642416	6.638612267	6.031579529	2.592536
TMEM135	446.860821	861.1588669	1.927129939	0.946454	LINC02274	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
TMEM9	325.7901552	627.8125933	1.927045932	0.946391	METTL5P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
UBA1	2522.672418	4856.936009	1.925313796	0.945094	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR4746	1.100642416	6.638612267	6.031579529	2.592536
CENPL	35.22055732	67.78153662	1.924487906	0.944475	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
GART	769.349049	1480.082078	1.923810889	0.943967	LINC01629	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
IL1RAP	150.788011	290.0160829	1.923336484	0.943611	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
UBAC1	345.6017187	664.4812934	1.922679366	0.943118	SEC23A-AS	0.829826533	0	547.0328046	9.095484	GTF2A1-AS1	1.100642416	6.638612267	6.031579529	2.592536
SLC35B1	263.0535375	505.5835928	1.921979828	0.942593	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
ABLIM2	91.35332055	175.5652916	1.921827149	0.942479	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
B4GAT1	170.5995745	327.7959558	1.921434779	0.942184	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
PSMB1	997.1820292	1915.661789	1.921075323	0.941914	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
ELFN2	543.7173537	1044.502368	1.921039232	0.941887	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
NOL6	528.3083598	1014.500704	1.920281375	0.941318	LINC02319	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
ALAD	201.4175622	386.6881105	1.919833138	0.940981	OR11H3P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
CCDC85B	100.1584599	192.2328825	1.919287525	0.940571	DDHD1-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
GHITM	819.9786001	1573.420588	1.918855672	0.940246	LINC02328	0.829826533	0	547.0328046	9.095484	LINC03026	1.100642416	6.638612267	6.031579529	2.592536
C1orf122	33.01927249	63.33684569	1.91817811	0.939737	PPP1R13B-I	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
RFX4	11.00642416	21.1122819	1.91817811	0.939737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
DNASE2B	11.00642416	21.1122819	1.91817811	0.939737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
ELAVL4	11.00642416	21.1122819	1.91817811	0.939737	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
CERKL	11.00642416	21.1122819	1.91817811	0.939737	LINC01568	0.829826533	0	547.0328046	9.095484	POM121L9P	1.100642416	6.638612267	6.031579529	2.592536
ENSG000002	11.00642416	21.1122819	1.91817811	0.939737	SEPHS1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	6.638612267	6.031579529	2.592536
C1orf210	11.00642416	21.1122819	1.91817811	0.939737	ENSG000002	0.829826533	0	547.0328046	9.095484	TBX21	7.704496914	46.47028587	6.031579529	2.592536
GADD45GIP	99.05781747	190.0105371	1.91817811	0.939737	ENSG000002	0.829826533	0	547.0328046	9.095484	SPX	6.603854498	39.8316736	6.031579529	2.592536
SAMD11	55.03212081	105.5614095	1.91817811	0.939737	LINC03058	0.829826533	0	547.0328046	9.095484	PCF11-AS1	3.301927249	19.9158368	6.031579529	2.592536
NACC2	219.0278408	420.0232925	1.91767079	0.939355	TRAV33	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	19.9158368	6.031579529	2.592536
FUCA1	643.8758135	1234.512905	1.917315232	0.939088	RBM25-AS1	0.829826533	0	547.0328046	9.095484	LRR1	72.64239948	436.4887566	6.008732637	2.587061
ANAPC16	250.9464709	481.1377927	1.917292524	0.93907	LINC02289	0.829826533	0	547.0328046	9.095484	FAT3	367.614567	2203.189446	5.993204959	2.583328
SUSD6	293.8715252	563.3645748	1.917043764	0.938883	ENSG000002	0.829826533	0	547.0328046	9.095484	BAALC	16.50963624	98.74935747	5.981316366	2.580463
PGAM1	236.6381195	453.3584744	1.915830279	0.93797	LINC02296	0.829826533	0	547.0328046	9.095484	PSD	15.40899383	92.1107452	5.97772614	2.579597
NAAA	376.4197064	721.1511027	1.915816549	0.937959	ENSG000002	0.829826533	0	547.0328046	9.095484	ABR	13.207709	78.83352067	5.968750576	2.577429
FN1	19437.34507	37219.84181	1.91486243	0.937241	ENSG000002	0.829826533	0	547.0328046	9.095484	TREM1	12.10706658	72.1949084	5.963038853	2.576048
HPS1	52.83083598	101.1167186	1.913971579	0.936569	ENSG000002	0.829826533	0	547.0328046	9.095484	STC2	62.73661773	373.42194	5.95221664	2.573427
CRYBG2	20.91220591	40.00221833	1.912864597	0.935735	ZMYND19P	0.829826533	0	547.0328046	9.095484	CDC25A	29.71734524	176.7530516	5.947807591	2.572358
RUVBL2	302.6766645	578.9209931	1.912671378	0.935589	ENSG000002	0.829826533	0	547.0328046	9.095484	ZFP92	8.80513933	52.2790716	5.937336099	2.569816
POLR2G	135.3790172	258.9032464	1.912432604	0.935409	ENSG000002	0.829826533	0	547.0328046	9.095484	CACNA2D1	836.4882364	4962.36267	5.932375918	2.56861
RPS6KB2	176.1027866	336.6853376	1.911868313	0.934983	HIF1AP1	0.829826533	0	547.0328046	9.095484	TMEM52	16.50963624	97.91953094	5.931053204	2.568288
HADHB	1096.239847	2095.671771	1.91169093	0.934849	LINC02299	0.829826533	0	547.0328046	9.095484	LINC02980	7.704496914	45.64045934	5.923872752	2.566541
KDM5A	2561.194903	4895.827055	1.911540215	0.934736	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNMB3	126.5738779	749.3333596	5.920126429	2.565628
CYP27A1	143.0835141	273.3484919	1.910412207	0.933884	NF1P2	0.829826533	0	547.0328046	9.095484	CEP97	269.657392	1595.756424	5.917718079	2.565041
TUBGCP6	1418.728075	2710.150292	1.910267613	0.933775	ENSG000002	0.829826533	0	547.0328046	9.095484	HS6ST2	14.30835141	84.6423064	5.915587615	2.564521
ETFB	50.62955115	96.67202764	1.909399263	0.933119	TPRX1P1	0.829826533	0	547.0328046	9.095484	CCNF	129.8758051	767.5895434	5.910181212	2.563202

MAP2K7	263.0535375	502.2500746	1.909307434	0.933049	LINC00524	0.829826533	0	547.0328046	9.095484	RBBP8	324.6895128	1917.729119	5.906347581	2.562266						
ASPH	1394.513941	2661.258692	1.908377258	0.932346	ENSG000002	0.829826533	0	547.0328046	9.095484	SHOX2	6.603854498	39.00184707	5.905921622	2.562162						
ANKS1B	509.5974387	972.27614	1.907929801	0.932008	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	39.00184707	5.905921622	2.562162						
DOT1L	758.3426248	1446.746896	1.90777473	0.931891	ENSG000002	0.829826533	0	547.0328046	9.095484	GPR162	13.207709	78.00369414	5.905921622	2.562162						
SEMA4C	556.9250626	1062.281131	1.90740407	0.931611	ENSG000002	0.829826533	0	547.0328046	9.095484	H2AZ1	89.15203572	525.2801956	5.891959633	2.558748						
CCNG2	2194.680978	4185.787679	1.907241973	0.931488	DUXAP1	0.829826533	0	547.0328046	9.095484	MTFR2	17.61027866	103.7283167	5.890214384	2.55832						
PIGT	1944.83515	3709.094578	1.907151143	0.931419	THRAP3P2	0.829826533	0	547.0328046	9.095484	CRHBP	5.503212081	32.3632348	5.880790041	2.55601						
ADD3	1713.700242	3267.959003	1.906960694	0.931275	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRC3B	5.503212081	32.3632348	5.880790041	2.55601						
ETNPPL	9.905781747	18.88993643	1.906960694	0.931275	POC1B-GAL	0.829826533	0	547.0328046	9.095484	AGAP1-IT1	5.503212081	32.3632348	5.880790041	2.55601						
SLC25A10	9.905781747	18.88993643	1.906960694	0.931275	LINC00517	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	32.3632348	5.880790041	2.55601						
FOSL1P1	9.905781747	18.88993643	1.906960694	0.931275	ENSG000002	0.829826533	0	547.0328046	9.095484	MCUB	64.93790256	381.7202053	5.878234287	2.555383						
JMJD1C-AS1	9.905781747	18.88993643	1.906960694	0.931275	ENSG000002	0.829826533	0	547.0328046	9.095484	ST8SIA2	26.41541799	155.1775617	5.874507145	2.554468						
LMF1	305.9785917	583.365684	1.90655719	0.93097	HSPA2-AS1	0.829826533	0	547.0328046	9.095484	FLT4	130.9764475	769.2491964	5.873187209	2.554144						
CEP131	157.3918655	300.0166375	1.906176259	0.930682	ENSG000002	0.829826533	0	547.0328046	9.095484	THEG	8.80513933	51.44924507	5.843092669	2.546732						
PALM	225.6316953	430.0238471	1.905866312	0.930447	ENSG000002	0.829826533	0	547.0328046	9.095484	CNR1	4.402569665	25.72462253	5.843092669	2.546732						
ACO1	665.8886619	1268.959259	1.905662811	0.930293	DDX18P1	0.829826533	0	547.0328046	9.095484	LINC01012	4.402569665	25.72462253	5.843092669	2.546732						
PCIF1	433.653112	825.6013395	1.903828928	0.928904	ENSG000002	0.829826533	0	547.0328046	9.095484	CIB2	15.40899383	89.6212656	5.816165974	2.540068						
SMPDL3B	115.5674537	220.0122008	1.903755718	0.928848	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM97	314.7837311	1830.597333	5.81541278	2.539882						
KCNA2	38.52248457	73.33740027	1.903755718	0.928848	ENSG000002	0.829826533	0	547.0328046	9.095484	LGSN	34.11991491	198.3285415	5.812691562	2.539206						
CDK5RAP3	95.75589022	182.232328	1.90309262	0.928346	ENSG000002	0.829826533	0	547.0328046	9.095484	DCLRE1B	97.95717505	569.2610019	5.81132522	2.538867						
ZNF597	95.75589022	182.232328	1.90309262	0.928346	ENSG000002	0.829826533	0	547.0328046	9.095484	TUBBP1	217.9271984	1265.485463	5.806918423	2.537773						
ZNF524	85.85010847	163.3423915	1.902646303	0.928007	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	63.89664307	5.805395297	2.537394						
C1orf216	57.23340565	108.8949277	1.902646303	0.928007	NPM1P42	0.829826533	0	547.0328046	9.095484	ENSG000002	50.62955115	293.7585928	5.802117264	2.536579						
ASAH2B	28.61670282	54.44746384	1.902646303	0.928007	ENSG000002	0.829826533	0	547.0328046	9.095484	LSM14A	46.22698148	268.0339703	5.798214845	2.535609						
SLC48A1	28.61670282	54.44746384	1.902646303	0.928007	ZHX1-C8orf	0.829826533	0	547.0328046	9.095484	C4orf46	49.52890873	287.1199805	5.797018103	2.535311						
HSD17B12	380.822276	724.4846209	1.902421855	0.927837	ACTG1P17	0.829826533	0	547.0328046	9.095484	DUSP2	6.603854498	38.17202053	5.780263715	2.531135						
NTNG1	161.7944352	307.7948466	1.902382157	0.927807	ENSG000002	0.829826533	0	547.0328046	9.095484	FAUP1	6.603854498	38.17202053	5.780263715	2.531135						
NSD2	836.4882364	1591.199351	1.902237572	0.927697	ST20-MTHF	0.829826533	0	547.0328046	9.095484	LINC00899	3.301927249	19.08601027	5.780263715	2.531135						
DEPP1	66.03854498	125.5625187	1.901351986	0.927026	LINC00596	0.829826533	0	547.0328046	9.095484	NQO1	26.41541799	152.6880821	5.780263715	2.531135						
UBC	10756.57833	20451.13412	1.901267623	0.926962	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC25A5	458.9678876	2646.316815	5.765799496	2.527521						
DEAF1	254.2483982	483.3601382	1.901133465	0.92686	ENSG000002	0.829826533	0	547.0328046	9.095484	TRIM58	24.21413316	139.4108576	5.757416823	2.525422						
CHMP1B	206.9207743	393.3551469	1.900993983	0.926754	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM163	8.80513933	50.61941854	5.748849239	2.523273						
TMEM181	460.06853	874.4929396	1.900788432	0.926598	ENSG000002	0.829826533	0	547.0328046	9.095484	SRRM3	8.80513933	50.61941854	5.748849239	2.523273						
SOX6	130.9764475	248.9026918	1.900362214	0.926274	LINC02895	0.829826533	0	547.0328046	9.095484	SYTL3	350.0042884	2007.350384	5.735216541	2.519848						
FRAS1	3868.758093	7349.296446	1.899652619	0.925736	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	31.53340827	5.730000553	2.518535						
PYGO2	334.5952946	635.5908024	1.899580815	0.925681	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	31.53340827	5.730000553	2.518535						
CDIPT	230.034265	436.6908835	1.898373199	0.924764	ENSG000002	0.829826533	0	547.0328046	9.095484	ELOVL6	28.61670282	163.4758271	5.712601765	2.514148						
ARFGAP2	394.029985	747.8192483	1.897873961	0.924384	ENSG000002	0.829826533	0	547.0328046	9.095484	RAB39B	22.01284833	125.3038065	5.692303181	2.509013						
FZD1	282.865101	536.6964293	1.897358237	0.923992	BMF-AS1	0.829826533	0	547.0328046	9.095484	SYT9	22.01284833	125.3038065	5.692303181	2.509013						
DCN	4476.312707	8491.582014	1.897003755	0.923723	HNRNPA1P	0.829826533	0	547.0328046	9.095484	PAICS	499.691657	2842.155877	5.687819352	2.507876						
TRADD	45.12633907	85.56030032	1.896016874	0.922972	ENSG000002	0.829826533	0	547.0328046	9.095484	SPHKAP	26.41541799	150.1986025	5.686020285	2.507419						
TYRO3	62.73661773	118.8954823	1.895152888	0.922314	LINC02883	0.829826533	0	547.0328046	9.095484	SELENOI	257.5503254	1463.814005	5.683603787	2.506806						
TMEM259	1129.259119	2140.118681	1.895152888	0.922314	UBE2Q2P2	0.829826533	0	547.0328046	9.095484	ACAA2	97.95717505	555.9837774	5.675784107	2.50482						
CPTP	44.02569665	83.33795486	1.892938924	0.920628	ENSG000002	0.829826533	0	547.0328046	9.095484	DOCK3	170.5995745	966.7479114	5.666766251	2.502526						
CARS1	35.22055732	66.67036389	1.892938924	0.920628	NPM1P43	0.829826533	0	547.0328046	9.095484	DDX12P	33.01927249	186.71097	5.654605808	2.499426						
FBXO2	17.61027866	33.33518194	1.892938924	0.920628	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC25A15	22.01284833	124.47398	5.654605808	2.499426						
LRFN2	8.80513933	16.66759097	1.892938924	0.920628	WBP1LP5	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	24.894796	5.654605808	2.499426						
PIP4P1	8.80513933	16.66759097	1.892938924	0.920628	ENSG000002	0.829826533	0	547.0328046	9.095484	RABGGTA	2.201284833	12.447398	5.654605808	2.499426						
SLC28A3	8.80513933	16.66759097	1.892938924	0.920628	ANP32BP3	0.829826533	0	547.0328046	9.095484	GDF5	2.201284833	12.447398	5.654605808	2.499426						
ABCC2	52.83083598	100.0055458	1.892938924	0.920628	CPEB1-AS1	0.829826533	0	547.0328046	9.095484	EMX1	2.201284833	12.447398	5.654605808	2.499426						
OR52H1	26.41541799	50.00277291	1.892938924	0.920628	NDUFAF4P1	0.829826533	0	547.0328046	9.095484	DDX50P2	2.201284833	12.447398	5.654605808	2.499426						
TENT5A	332.3940097	628.923766	1.89210319	0.919991	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	12.447398	5.654605808	2.499426						
STRN4	838.6895212	1586.75466	1.891945255	0.91987	LINC02253	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	12.447398	5.654605808	2.499426						
U2AF2	1281.147773	2423.467727	1.891637935	0.919636	IGHV3OR15	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	12.447398	5.654605808	2.499426						
NUP160	78.14561156	147.7859733	1.891161517	0.919273	TFDP1P3	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	12.447398	5.654605808	2.499426						
YIPF6	320.2869431	605.5891386	1.890770609	0.918974	GEMIN8P1	0.829826533	0	547.0328046	9.095484	MAD2L2	114.4668113	644.7752164	5.632857325	2.493867						
HADH	335.695937	634.4796297	1.890042624	0.918419	TPM1-AS	0.829826533	0	547.0328046	9.095484	B4GALNT1	42.92505424	241.4795212	5.62560783	2.492009						
UTP18	223.4304105	422.2456379	1.88983065	0.918257	ENSG000002	0.829826533	0	547.0328046	9.095484	NDRG4	14.30835141	80.49317374	5.62560783	2.492009						
GALNT2	1287.751627	2433.468282	1.889703131	0.91816	ENSG000002	0.829826533	0	547.0328046	9.095484	IGSF1	17.61027866	98.74935747	5.607484093	2.487354						
CADPS	42.92505424	81.11560939	1.889703131	0.91816	ENSG000002	0.829826533	0	547.0328046	9.095484	FGF9	7.704496914	43.15097974	5.60075242	2.485621						
AIDA	197.0149925	372.242865	1.889413898	0.917939	ENSG000002	0.829826533	0	547.0328046	9.095484	PFN2	854.098515	4783.120138	5.60019723	2.485478						
VAC14	443.5588938	837.8242395	1.888868088	0.917522	LINC01491	0.829826533	0	547.0328046	9.095484	PGK1	620.7623228	3475.313522	5.598460786	2.48503						
SATB1	1389.010729	2623.478819	1.88873906	0.917423	ENSG000002	0.829826533	0	547.0328046	9.095484	EZH2	241.0406892	1349.297943	5.597801549	2.48486						
FOCAD	1391.212014	2625.701164	1.887347965	0.91636	LINC01582	0.829826533	0	547.0328046	9.095484	MYBL1	152.9892959	856.3809824	5.597652944	2.484822						
PRKCA	1136.963616	2144.563372	1.886219877	0.915498	ENSG000002	0.829826533	0	547.0328046	9.095484	H2BC3	50.62955115	282.9708479	5.589045161	2.482602						
EXD2	248.7451861	468.9148927	1.885121477	0.914657	ENSG000002	0.829826533	0	547.0328046	9.095484	OR2D2	5.503212081	30.70358173	5.579211064	2.480061						
REXO1	496.3897298	935.6074399	1.88482433	0.91443	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	30.70358173	5.579211064	2.480061						
MGAT5B	16.50963624	31.11283648	1.884525862	0.914202	UBE2Q2P13	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	30.70358173	5.579211064	2.480061						
HNRNPRP1	16.50963624	31.11283648	1.884525862	0.914202	ENSG000002	0.829826533	0	547.0328046	9.095484	MUC1	362.111355	2015.64865	5.566377916	2.476739						
HMCES	198.1156349	373.3540378	1.884525862	0.914202	IDH2-DT	0.829826533	0	547.0328046	9.095484	LIG1	228.9336226	1273.783729	5.563987126	2.476119						
SPACA9	66.03854498	124.4513459	1.884525862	0.914202	ENSG000002	0.829826533	0	547.0328046	9.095484	ASTN1	20.91220591	116.1757147	5.555402198	2.473891						
C1orf198	321.3875856	605.5891386	1.884295367	0.914025	LINC01581	0.829826533	0	547.0328046	9.095484	TNFRSF11B	15.40899383	85.47213294	5.546899031	2.471681						
XYLT2	562.4282747	1058.947613	1.882813615	0.91289	ENSG000002	0.829826533	0	547.0328046	9.095484	HULC	18.71092108	103.7283167	5.543731185	2.470857						
CUBN	692.3040799	1303.405614	1.882706822	0.912808	ENSG000002	0.829826533	0	547.0328046	9.095484	KIAA0319	19.81156349	109.5371024	5.528947902	2.467005						
SNPH	48.42826632	91.11616398	1.881466567	0.911858	ENSG000002	0.829826533	0	547.0328046	9.095484	GPR173	19.81156349	109.5371024	5.528947902	2.467005						
MYH13	24.21413316	45.55808199	1.881466567	0.911858	ENSG000002	0.829826533	0	547.0328046	9.095484	PTH2R	9.905781747	54.7685512	5.528947902	2.467005						
OR51A7	24.21413316	45.55808199	1.881466567	0.911858	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02976	3.301927249	18.25618373	5.528947902	2.467005						
S100A13	24.21413316	45.55808199	1.881466567	0.911858	ENSG000002	0.829826533	0	547.0328046	9.095484	UICLM	3.301927249	18.25618373	5.528947902	2.467005						
EIF4BP6	24.21413316	45.55808199	1.881466567	0.911858	CZIB-DT	0.829826533	0	547.0328046	9.095484	SCARNA1	3.301927249	18.25618373	5.528947902	2.467005						
EFCAB8	24.21413316	45.55808199	1.881466567	0.911858	LINC00567	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	18.25618373	5.528947902	2.467005						
DOCK6	1249.229142	2350.130327	1.881264411	0.911703	IGHV3OR16	0.829826533	0	547.0328046	9.095484	ZNF887P	3.301927249	18.25618373	5.528947902	2.467005						
AKR1A1	434.7537544	817.8231303	1.88111804	0.91159	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	18.25618373	5.528947902	2.467005						
PRPSAP1	264.1541799	496.694211	1.880319331	0.910978	NR4A1AS	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	18.25618373	5.528947902	2.467005						
PEX14	88.0513933	165.564737	1.880319331	0.910978	FIGNL2-DT	0.829826533	0	547.0328046	9.095484	H2BC6	107.8629568	595.815451	5.523819007	2.465666						
MUL1	175.0021442	328.9071285	1.879446278	0.910308	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNQ5	47.3276239	261.395358	5.523103348	2.465479						
SIRT7	86.95075089	163.3423915	1.878562173	0.909629	ENSG000002	0.829826533	0	547.0328046	9.095484	C3orf14	140.8822293	775.8878087	5.507350449	2.461358						
SLC45A4	584.4411231	1097.838659	1.87844184	0.909536	CDRT7	0.829826533	0	547.0328046	9.095484	MET	461.1691724	2538.439366	5.504356139	2.460574						
RAD51B	165.0963624	310.0171921	1.877795413	0.90904	ENSG000002	0.829826533	0	547.0328046	9.095484	MASP2	11.00642416	60.57733694	5.50381632	2.460432						
C19orf12	69.34047223	130.0072096	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	KLHL14	23.11349074	126.9634596	5.493045643	2.457606						
CDNF	30.81798766	57.78098203	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF257	61.63597531	338.5692256	5.493045643	2.457606						
ALOXE3	23.11349074	43.33573653	1.874910934	0.906822	LINC01992	0.829826533	0	547.0328046	9.095484	SMAD9	548.1199233	3009.780837	5.491099134	2.457095						
ENSG000002	23.11349074	43.33573653	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	VRK1	210.2227015	1153.458881	5.486842634	2.455976						
NCAN	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	C18orf54	31.91863007	175.0933985	5.485617589	2.455654						
LACRT	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	CD24	416.0428334	2280.363314	5.481078223	2.45446						
DRD2	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	XK	13.207709	72.1949084	5.466118948	2.450517						
ANKRD55	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	MMP8	4.402569665	24.06496947	5.466118948	2.450517						
GSG1L	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF251	4.402569665	24.06496947	5.466118948	2.450517						
PXMP2	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	CHST2	49.52890873	270.5234499	5.461930351	2.449411						
CCER1	7.704496914	14.44524551	1.874910934	0.906822	DDX59-AS1	0.829826533	0	547.0328046	9.095484	DHX9P1	9.905781747	53.93872467	5.445175964	2.444979						
RPS10P7	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	GABRA3	31.91863007	173.4337455	5.433621214	2.441914						
PITX1-AS1	7.704496914	14.44524551	1.874910934	0.906822	ENSG000002	0.829826533	0	547.0328046	9.095484	TEX30	27.51606041	149.368776	5.428421576	2.440533						

ALG1L2	7.704496914	14.44524551	1.874910934	0.906822	ENSG00000	0.829826533	0	547.0328046	9.095484	PCYT1B	22.01284833	119.4950208	5.428421576	2.440533
GRK6	176.1027866	330.0183012	1.874009535	0.906128	MMP2-AS1	0.829826533	0	547.0328046	9.095484	PRR18	5.503212081	29.8737552	5.428421576	2.440533
NINL	611.9571835	1146.730259	1.873873352	0.906023	ENSG00000	0.829826533	0	547.0328046	9.095484	MT-TS1	5.503212081	29.8737552	5.428421576	2.440533
LRCH4	227.8329802	426.6903289	1.872820733	0.905213	CPNE2-DT	0.829826533	0	547.0328046	9.095484	FOS	156.2912231	846.423064	5.415678802	2.437142
SCPEP1	744.0342734	1393.410605	1.872777445	0.905179	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	35.68254093	5.403289995	2.433838
ANKRD13B	68.23982981	127.7848641	1.872584742	0.905031	ENSG00000	0.829826533	0	547.0328046	9.095484	RPS20P14	26.41541799	142.7301637	5.403289995	2.433838
MTMR14	377.5203488	706.7058572	1.871967589	0.904555	LINC02137	0.829826533	0	547.0328046	9.095484	H1-2	735.2291341	3965.741003	5.393884463	2.431325
ULK2	483.1820208	904.4946034	1.87195418	0.904545	PPIAP48	0.829826533	0	547.0328046	9.095484	RNU4-1	14.30835141	77.1738676	5.393624002	2.431255
NMNAT1	97.95717505	183.3435007	1.871669948	0.904326	ENSG00000	0.829826533	0	547.0328046	9.095484	SCART1	7.704496914	41.49132667	5.385338865	2.429037
VAMP3	180.5053563	337.7965104	1.871393278	0.904113	ENSG00000	0.829826533	0	547.0328046	9.095484	ELOCP2	7.704496914	41.49132667	5.385338865	2.429037
AIP	217.9271984	407.8003924	1.871268916	0.904017	ENSG00000	0.829826533	0	547.0328046	9.095484	TACC3	103.4603871	556.8136039	5.381901415	2.428116
JAGN1	119.9700234	224.4568918	1.870941469	0.903764	LINC02533	0.829826533	0	547.0328046	9.095484	PPFIA4	34.11991491	183.3916639	5.374915629	2.426242
TMEM115	157.3918655	294.4607738	1.870876699	0.903714	ENSG00000	0.829826533	0	547.0328046	9.095484	GNAO1	162.8950776	875.4669927	5.374422638	2.42611
SIGLEC10	104.5610295	195.5664007	1.870356495	0.903313	ENSG00000	0.829826533	0	547.0328046	9.095484	SPATA24	8.80513933	47.3001124	5.371875518	2.425426
JAG2	282.865101	528.9182202	1.869860291	0.90293	ENSG00000	0.829826533	0	547.0328046	9.095484	KCNC4	132.07709	708.6718595	5.365592623	2.423738
COG4	297.1734524	555.5863657	1.869569308	0.902706	BMP2K-DT	0.829826533	0	547.0328046	9.095484	NRCAM	1051.113508	5627.053723	5.353421569	2.420461
MIEN1	59.43469048	111.1172731	1.869569308	0.902706	TPSP2	0.829826533	0	547.0328046	9.095484	SLIT1	69.34047223	370.9324604	5.349436606	2.419387
SIGLEC14	29.71734524	55.55863657	1.869569308	0.902706	ARMH2	0.829826533	0	547.0328046	9.095484	STARD4	48.42826632	258.9058784	5.346172764	2.418506
DENND1B	646.0770984	1207.844759	1.869505609	0.902657	ENSG000002	0.829826533	0	547.0328046	9.095484	MZT1	24.21413316	129.4529392	5.346172764	2.418506
CHCHD2	266.3554647	497.8053837	1.868951268	0.902229	ACTG1P16	0.829826533	0	547.0328046	9.095484	SHANK1	27.51606041	146.8792964	5.337947883	2.416285
ELP2	837.5888788	1564.531206	1.867898733	0.901416	ENSG00000	0.829826533	0	547.0328046	9.095484	TPD52	248.7451861	1327.722453	5.337680999	2.416213
CHEK2	66.03854498	123.3401732	1.867699739	0.901263	ENSG00000	0.829826533	0	547.0328046	9.095484	SCHIP1	16.50963624	87.96161254	5.327895251	2.413566
ENSG000002	22.01284833	41.11339106	1.867699739	0.901263	SMG1-DT	0.829826533	0	547.0328046	9.095484	FUT9	20.91220591	111.1967555	5.317313532	2.410698
BCL3	168.3982897	314.461883	1.867369815	0.901008	WBP11P1	0.829826533	0	547.0328046	9.095484	TTC39B	343.4004339	1825.618373	5.316296059	2.410421
UBE2M	203.618847	380.0210742	1.866335458	0.900208	ENSG00000	0.829826533	0	547.0328046	9.095484	DERA	124.372593	660.5419206	5.310992594	2.408982
AOPEP	594.3469048	1107.839213	1.8639606	0.898371	ENSG00000	0.829826533	0	547.0328046	9.095484	DNMT1	915.7344904	4851.165914	5.297568198	2.40533
COMMD4	28.61670282	53.33629111	1.863816787	0.89826	VPS51P1	0.829826533	0	547.0328046	9.095484	RIMKLA	86.95075089	460.553726	5.296719365	2.405099
WASH9P	28.61670282	53.33629111	1.863816787	0.89826	LINC01917	0.829826533	0	547.0328046	9.095484	H2AC21	271.8586768	1435.599903	5.280684507	2.400725
ARHGAP19	14.30835141	26.66814555	1.863816787	0.89826	ENSG00000	0.829826533	0	547.0328046	9.095484	OCIAD2	287.2676707	1516.922903	5.280520775	2.40068
MRPL20	321.3875856	598.9221022	1.863550831	0.898054	ENSG00000	0.829826533	0	547.0328046	9.095484	MATN3	16.50963624	87.131786	5.277632088	2.399891
MRPL49	192.6124229	358.9087923	1.863373021	0.897917	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	29.04392867	5.277632088	2.399891
TESK1	480.9807359	895.6052215	1.862039692	0.896884	ENSG00000	0.829826533	0	547.0328046	9.095484	SVOP	6.603854498	34.8527144	5.277632088	2.399891
TADA2B	268.5567496	500.0277291	1.861907139	0.896781	CISTR	0.829826533	0	547.0328046	9.095484	DRC7	4.402569665	23.23514293	5.277632088	2.399891
PFAS	338.9978642	631.1461115	1.861799669	0.896698	E2F5-DT	0.829826533	0	547.0328046	9.095484	SF3A3P1	4.402569665	23.23514293	5.277632088	2.399891
GM2A	322.488228	600.033275	1.860636212	0.895796	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	23.23514293	5.277632088	2.399891
METTL13	308.1798766	573.3651294	1.860488543	0.895682	ENSG00000	0.829826533	0	547.0328046	9.095484	DUSP13	3.301927249	17.4263572	5.277632088	2.399891
GLB1	970.7666112	1805.655689	1.860030689	0.895326	ENSG00000	0.829826533	0	547.0328046	9.095484	CD101-AS1	3.301927249	17.4263572	5.277632088	2.399891
GMIP	215.7259136	401.133356	1.859458372	0.894882	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	17.4263572	5.277632088	2.399891
APOE	285.0663858	530.0293929	1.85931916	0.894774	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	17.4263572	5.277632088	2.399891
LRP1B	285.0663858	530.0293929	1.85931916	0.894774	ENSG00000	0.829826533	0	547.0328046	9.095484	TBX18	2.201284833	11.61757147	5.277632088	2.399891
ATP6V0E1	562.4282747	1045.61354	1.859105574	0.894609	CDH3-AS1	0.829826533	0	547.0328046	9.095484	UCN2	2.201284833	11.61757147	5.277632088	2.399891
RLN2	90.25267814	167.7870824	1.85908148	0.89459	ENSG00000	0.829826533	0	547.0328046	9.095484	TMEM151B	2.201284833	11.61757147	5.277632088	2.399891
BCKDK	298.2740948	554.475193	1.858945187	0.894484	FRG2IP	0.829826533	0	547.0328046	9.095484	HMX3	2.201284833	11.61757147	5.277632088	2.399891
ATP8A1	3317.336243	6164.786314	1.858354373	0.894026	ENSG000002	0.829826533	0	547.0328046	9.095484	SARNP	2.201284833	11.61757147	5.277632088	2.399891
SH3BP5L	179.4047139	333.3518194	1.858099558	0.893828	ENSG00000	0.829826533	0	547.0328046	9.095484	KRTAP12-2	2.201284833	11.61757147	5.277632088	2.399891
C3orf20	27.51606041	51.11394565	1.857604064	0.893443	RPL23AP97	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	11.61757147	5.277632088	2.399891
ETFBKMT	82.54818122	153.3418369	1.857604064	0.893443	ENSG00000	0.829826533	0	547.0328046	9.095484	RC3H1-IT1	2.201284833	11.61757147	5.277632088	2.399891
GABARAP	34.11991491	63.33684569	1.856301397	0.892431	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	11.61757147	5.277632088	2.399891
ZNF737	613.0578259	1137.840877	1.856009057	0.892204	ENSG00000	0.829826533	0	547.0328046	9.095484	MTA1-DT	2.201284833	11.61757147	5.277632088	2.399891
SLC39A9	639.4732439	1186.732477	1.855796921	0.892039	ENSG00000	0.829826533	0	547.0328046	9.095484	CAPN1-AS1	2.201284833	11.61757147	5.277632088	2.399891
NACC1	467.7730269	867.8259033	1.855228612	0.891597	LINC00543	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	11.61757147	5.277632088	2.399891
FBXL17	507.3961539	941.1633035	1.854888525	0.891332	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	11.61757147	5.277632088	2.399891
DEGS2	47.3276239	87.78264578	1.854786667	0.891253	VN1R69P	0.829826533	0	547.0328046	9.095484	C2orf49-DT	2.201284833	11.61757147	5.277632088	2.399891
MFN2	714.3169282	1324.517896	1.854244025	0.890831	LINC00554	0.829826533	0	547.0328046	9.095484	OPN5	1.100642416	5.808785734	5.277632088	2.399891
ANKRD52	658.1841649	1220.067659	1.853687348	0.890398	CES1P2	0.829826533	0	547.0328046	9.095484	SEPTIN12	1.100642416	5.808785734	5.277632088	2.399891
CCDC87	67.13918739	124.4513459	1.853631996	0.890355	ENSG00000	0.829826533	0	547.0328046	9.095484	SLC28A1	1.100642416	5.808785734	5.277632088	2.399891
LINGO1	73.74304189	136.674246	1.853384977	0.890163	LINC02280	0.829826533	0	547.0328046	9.095484	CLEC1B	1.100642416	5.808785734	5.277632088	2.399891
MAST4	2060.402603	3817.989505	1.85303081	0.889887	ENSG000002	0.829826533	0	547.0328046	9.095484	PRL	1.100642416	5.808785734	5.277632088	2.399891
ETHE1	186.0085684	344.4635467	1.851869243	0.888982	RARRES2P7	0.829826533	0	547.0328046	9.095484	LINC02908	1.100642416	5.808785734	5.277632088	2.399891
STIM1	564.6295596	1045.61354	1.851857599	0.888973	PPIAP47	0.829826533	0	547.0328046	9.095484	NBPF4	1.100642416	5.808785734	5.277632088	2.399891
AMY2B	444.6595362	823.378994	1.851706591	0.888856	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR604	1.100642416	5.808785734	5.277632088	2.399891
ZCCHC4	138.6809445	256.680901	1.850873615	0.888206	NDUFB10P1	0.829826533	0	547.0328046	9.095484	MSMP	1.100642416	5.808785734	5.277632088	2.399891
FSCN3	6.603854498	12.22290005	1.850873615	0.888206	VN1R65P	0.829826533	0	547.0328046	9.095484	HSPA8P15	1.100642416	5.808785734	5.277632088	2.399891
NANOG	6.603854498	12.22290005	1.850873615	0.888206	ENSG00000	0.829826533	0	547.0328046	9.095484	RNU6ATAC2	1.100642416	5.808785734	5.277632088	2.399891
LCT	6.603854498	12.22290005	1.850873615	0.888206	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC01124	1.100642416	5.808785734	5.277632088	2.399891
SLC30A8	6.603854498	12.22290005	1.850873615	0.888206	SPCS2P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
MYOZ2	6.603854498	12.22290005	1.850873615	0.888206	MTCH2P4	0.829826533	0	547.0328046	9.095484	RPL36AP54	1.100642416	5.808785734	5.277632088	2.399891
SGO1-AS1	6.603854498	12.22290005	1.850873615	0.888206	LINC02555	0.829826533	0	547.0328046	9.095484	LINC01876	1.100642416	5.808785734	5.277632088	2.399891
CYP51A1P2	6.603854498	12.22290005	1.850873615	0.888206	FOXC2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
RPL29P24	6.603854498	12.22290005	1.850873615	0.888206	USP7-AS1	0.829826533	0	547.0328046	9.095484	RPL7AP22	1.100642416	5.808785734	5.277632088	2.399891
UBE2MP1	6.603854498	12.22290005	1.850873615	0.888206	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC02609	1.100642416	5.808785734	5.277632088	2.399891
SLC25A18	13.207709	24.44580009	1.850873615	0.888206	RARRES2P6	0.829826533	0	547.0328046	9.095484	LINC02940	1.100642416	5.808785734	5.277632088	2.399891
ENSG000002	13.207709	24.44580009	1.850873615	0.888206	ENSG00000	0.829826533	0	547.0328046	9.095484	BRWD1-AS1	1.100642416	5.808785734	5.277632088	2.399891
EEFSEC	26.41541799	48.89160018	1.850873615	0.888206	ENSG00000	0.829826533	0	547.0328046	9.095484	CNTF	1.100642416	5.808785734	5.277632088	2.399891
RABL6	487.5845904	902.2722579	1.850493793	0.88791	GS1-279B7.1	0.829826533	0	547.0328046	9.095484	RBM14-RBM	1.100642416	5.808785734	5.277632088	2.399891
ARMT1	236.6381195	437.8020562	1.850091004	0.887596	ENSG00000	0.829826533	0	547.0328046	9.095484	TRIM7-AS2	1.100642416	5.808785734	5.277632088	2.399891
INF2	632.8693894	1170.064886	1.848825217	0.886609	LINC02544	0.829826533	0	547.0328046	9.095484	CCT5P1	1.100642416	5.808785734	5.277632088	2.399891
FAM135B	154.0899383	284.4602192	1.846066151	0.884454	C2orf69P1	0.829826533	0	547.0328046	9.095484	UBQLN1-AS	1.100642416	5.808785734	5.277632088	2.399891
CCDC171	236.6381195	436.6908835	1.845395342	0.88393	ENSG00000	0.829826533	0	547.0328046	9.095484	OR4A40P	1.100642416	5.808785734	5.277632088	2.399891
RAB11FIP5	166.1970049	306.6836739	1.845302051	0.883857	ENSG00000	0.829826533	0	547.0328046	9.095484	PRR13P2	1.100642416	5.808785734	5.277632088	2.399891
CTNND2	396.2312699	731.1516573	1.845264907	0.883828	ENSG00000	0.829826533	0	547.0328046	9.095484	ALG1L9P.1	1.100642416	5.808785734	5.277632088	2.399891
POMT2	331.2933673	611.1450023	1.844724533	0.883405	ENSG00000	0.829826533	0	547.0328046	9.095484	OR5AK1P	1.100642416	5.808785734	5.277632088	2.399891
PPM1J	57.23340565	105.5614095	1.844402029	0.883153	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
CNNM2	310.3811614	572.2539567	1.843713562	0.882615	ENSG00000	0.829826533	0	547.0328046	9.095484	RACGAP1P1	1.100642416	5.808785734	5.277632088	2.399891
YIPF4	335.695937	618.9232114	1.843701824	0.882605	LINC02473	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
CLEC11A	25.31477557	46.66925472	1.843557909	0.882493	ENSG00000	0.829826533	0	547.0328046	9.095484	HMBOX1-IT1	1.100642416	5.808785734	5.277632088	2.399891
CCDC81	25.31477557	46.66925472	1.843557909	0.882493	UBE2FP2	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
RPLP0P6	75.94432672	140.0077642	1.843557909	0.882493	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
ZNF667	233.3361923	430.0238471	1.842936764	0.882007	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
NUCB1	1474.860838	2717.928501	1.842837257	0.881929	ENSG00000	0.829826533	0	547.0328046	9.095484	DNAH17-AS	1.100642416	5.808785734	5.277632088	2.399891
GTF3C2	799.0663942	1472.303869	1.842530082	0.881688	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
TCTN3	357.7087853	658.9254297	1.842072258	0.88133	ULK4P1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
UNC119	244.3426164	450.0249562	1.841778413	0.881099	NUP93-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
PSMB6	444.6595362	818.9343031	1.841710874	0.881047	GOLGA6GP	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
EXT2	923.4389873	1700.094279	1.841046677	0.880526	DIS3L-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
KCNK15	18.71092108	34.44635467	1.840975895	0.880471	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
ZFYVE27	130.9764475	241.1244827	1.840975895	0.880471	ENSG00000	0.829826533	0	547.0328046	9.095484	SNURF	1.100642416	5.808785734	5.277632088	2.399891
SPACA6	56.13276323	103.339064	1.840975895	0.880471	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
TRAPPC1	199.2162773	366.6870014	1.840647794	0.880214	GOLGA6L23	0.829826533	0	547.0328046	9.095484	LINC02930	1.100642416	5.808785734	5.277632088	2.399891
KLHL23	421.5460454	775.5985665	1.839890505	0.87962	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
LAMA2	3042.175639	5593.64353	1.838698417	0.878685	ENSG00000	0.829826533	0	547.0328046	9.095484	SUNO1	1.100642416	5.808785734	5.277632088	2.399891

MARCHF8	42.92505424	78.89326393	1.837930443	0.878082	MAPK8IP3-/	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
ZNF491	55.03212081	101.1167186	1.837412716	0.877676	CHEK2P6	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
ARMC10	134.2783748	246.6803464	1.83708171	0.877416	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
CACTIN	292.7708827	537.807602	1.836957272	0.877318	GNAO1-AS1	0.829826533	0	547.0328046	9.095484	SMG6-IT1	1.100642416	5.808785734	5.277632088	2.399891
USP5	780.3554732	1433.412824	1.836871622	0.877251	LINC00559	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
DHCR7	474.3768814	871.1594214	1.836428915	0.876903	LINC01735	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
SRA1	127.6745203	234.4574463	1.836368336	0.876855	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
CYFIP1	24.21413316	44.44690926	1.835577139	0.876234	BBS7-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
FAM124B	12.10706658	22.22345463	1.835577139	0.876234	DLGAP1-AS	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
PNLDC1	12.10706658	22.22345463	1.835577139	0.876234	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
HAP1	12.10706658	22.22345463	1.835577139	0.876234	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
KIAA2012	12.10706658	22.22345463	1.835577139	0.876234	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
PLXNB3	162.8950776	298.9054648	1.834957011	0.875746	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
MRC2	1091.837277	2003.444435	1.834929506	0.875725	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
ABLIM1	464.4710997	852.269485	1.834924682	0.875721	LINC02177	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
AMOTL1	3232.586777	5930.328868	1.834545916	0.875423	LINC02605	0.829826533	0	547.0328046	9.095484	TALAM1	1.100642416	5.808785734	5.277632088	2.399891
ITGA5	497.4903722	912.2728125	1.833749684	0.874797	LINC02191	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
SYS1	106.7623144	195.5664007	1.831792443	0.873256	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	5.808785734	5.277632088	2.399891
FAM193B	852.9978726	1562.30886	1.831550711	0.873066	ENSG000002	0.829826533	0	547.0328046	9.095484	IL3RA	1.100642416	5.808785734	5.277632088	2.399891
C17orf75	171.7002169	314.461883	1.831458857	0.872993	ENSG000002	0.829826533	0	547.0328046	9.095484	SPAG6	26.41541799	139.4108576	5.277632088	2.399891
TBC1D25	94.6552478	173.3429461	1.831308355	0.872875	ENSG000002	0.829826533	0	547.0328046	9.095484	ARC	7.704496914	40.66150013	5.277632088	2.399891
RALBP1	662.5867346	1213.400623	1.831308355	0.872875	IGHV1OR16	0.829826533	0	547.0328046	9.095484	LNMICC	7.704496914	40.66150013	5.277632088	2.399891
MNT	804.5696063	1472.303869	1.829927277	0.871786	GOLGA8S	0.829826533	0	547.0328046	9.095484	ANGPT2	71.54175706	375.9114196	5.254433705	2.393535
TMPRSS13	35.22055732	64.44801842	1.82984096	0.871718	ENSG000002	0.829826533	0	547.0328046	9.095484	STK32C	63.83726015	335.2499195	5.2516339	2.392766
C1QTNF3	17.61027866	32.22400921	1.82984096	0.871718	ENSG000002	0.829826533	0	547.0328046	9.095484	OPRK1	166.1970049	870.4880335	5.237687853	2.38893
MT1F	17.61027866	32.22400921	1.82984096	0.871718	ENSG000002	0.829826533	0	547.0328046	9.095484	YRDC	29.71734524	155.1775617	5.221784129	2.384543
PSKH1	222.3297681	406.6892197	1.829216228	0.871226	ENSG000002	0.829826533	0	547.0328046	9.095484	WNT11	72.64239948	379.2307257	5.220514858	2.384192
RAPGEF1	1446.244135	2644.591101	1.828592446	0.870734	ENSG000002	0.829826533	0	547.0328046	9.095484	STRIP2	41.82441182	218.2443783	5.218109921	2.383527
MTMR4	1036.805156	1895.66068	1.828367335	0.870556	LINC02164	0.829826533	0	547.0328046	9.095484	KLF11	165.0963624	861.3599416	5.217316293	2.383308
GABARAPL1	221.2291257	404.4668742	1.828271359	0.87048	ENSG000002	0.829826533	0	547.0328046	9.095484	UBE2E4P	12.10706658	63.06681654	5.209091411	2.381032
TCTN1	692.3040799	1265.625741	1.82813561	0.870373	ENSG000002	0.829826533	0	547.0328046	9.095484	CCL28	67.13918739	349.3569705	5.203473323	2.379475
ROMO1	285.0663858	521.140011	1.82813561	0.870373	LINC02186	0.829826533	0	547.0328046	9.095484	TUBG1	533.8115719	2774.939928	5.198351017	2.378054
MPV17L2	46.22698148	84.44912759	1.826836295	0.869347	SMIM36	0.829826533	0	547.0328046	9.095484	SDC1	399.5331971	2076.225986	5.19662947	2.377576
NLRC4	23.11349074	42.22456379	1.826836295	0.869347	ENSG000002	0.829826533	0	547.0328046	9.095484	AGPAT4	38.52248457	199.9881945	5.191466666	2.376142
BNIPL	23.11349074	42.22456379	1.826836295	0.869347	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	45.64045934	5.183388658	2.373896
SMO	356.6081429	651.1472206	1.825946024	0.868644	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	45.64045934	5.183388658	2.373896
ATP10D	775.9529035	1416.745233	1.82581343	0.868539	ENSG000002	0.829826533	0	547.0328046	9.095484	GJC1	219.0278408	1134.372871	5.179126392	2.372709
ATG9A	338.9978642	618.9232114	1.82574369	0.868484	BCAR4	0.829826533	0	547.0328046	9.095484	TESC	79.24625397	409.9343075	5.172917166	2.370978
LRRC27	148.5867262	271.1261465	1.824699644	0.867659	GARS1P1	0.829826533	0	547.0328046	9.095484	SLC26A7	36.32119974	187.5407965	5.163397627	2.368321
VASP	324.6895128	592.2550659	1.824065892	0.867158	MYMX	0.829826533	0	547.0328046	9.095484	PRR29	6.603854498	34.02288787	5.151974181	2.365125
SAMD5	227.8329802	415.5786016	1.824049359	0.867145	LINC02861	0.829826533	0	547.0328046	9.095484	FOXD2-AS1	6.603854498	34.02288787	5.151974181	2.365125
ZNF428	141.9828717	258.9032464	1.823482251	0.866696	ENSG000002	0.829826533	0	547.0328046	9.095484	SMC4	552.522493	2846.305009	5.151473552	2.364985
KANSL1	39.62312699	72.22622754	1.822830075	0.86618	CORO7	0.829826533	0	547.0328046	9.095484	RNFT2	38.52248457	198.3285415	5.148383955	2.36412
ZNF213	90.25267814	164.4535643	1.822146086	0.865639	MTND4LP24	0.829826533	0	547.0328046	9.095484	ARHGAP33	190.411138	976.7058298	5.129457446	2.358806
DENND10P1	45.12633907	82.22678213	1.822146086	0.865639	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	28.21410213	5.1268426	2.358071
ZNF529	242.1413316	441.1355744	1.82181031	0.865373	ENSG000002	0.829826533	0	547.0328046	9.095484	NRARP	49.52890873	253.9269192	5.1268426	2.358071
MFSD5	146.3854414	266.6814555	1.821775807	0.865345	ENSG000002	0.829826533	0	547.0328046	9.095484	ACYP1	85.85010847	438.9782362	5.11331021	2.354258
SLC25A32	50.62955115	92.22733671	1.821610791	0.865215	ENSG000002	0.829826533	0	547.0328046	9.095484	TMIGD3	9.905781747	50.61941854	5.110088212	2.353348
LRRC66	50.62955115	92.22733671	1.821610791	0.865215	ENSG000002	0.829826533	0	547.0328046	9.095484	CDKN2C	155.1905807	792.4843394	5.106523449	2.352341
INPP4A	674.6938012	1228.957041	1.821503382	0.86513	ENSG000002	0.829826533	0	547.0328046	9.095484	SNTG2	14.30835141	73.02473494	5.103644217	2.351528
PRKAR1B	61.63597531	112.2284459	1.820826965	0.864594	MAPK8IP1P	0.829826533	0	547.0328046	9.095484	CIP2A	145.284799	740.2052678	5.094856951	2.349042
MST1	67.13918739	122.2290005	1.820531424	0.86436	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPL	35.22055732	179.2425312	5.089145228	2.347423
PPP5C	618.561038	1125.617977	1.819736304	0.863729	TMEM231P1	0.829826533	0	547.0328046	9.095484	ELFN1	17.61027866	89.6212656	5.089145228	2.347423
MAPK1IP1L	560.2269899	1018.945395	1.818808114	0.862993	LINC00621	0.829826533	0	547.0328046	9.095484	FOXD3	8.80513933	44.8106328	5.089145228	2.347423
CTBS	188.2098532	342.2412013	1.818402148	0.862671	ENSG000002	0.829826533	0	547.0328046	9.095484	SOX21	4.402569665	22.4053164	5.089145228	2.347423
RALGDS	33.01927249	60.0033275	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL15P2	4.402569665	22.4053164	5.089145228	2.347423
MYCBPAP	27.51606041	50.00277291	1.817221367	0.861734	ZFP3-DT	0.829826533	0	547.0328046	9.095484	LINC02762	4.402569665	22.4053164	5.089145228	2.347423
CCNE1	16.50963624	30.00166375	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	EID2B	22.01284833	112.026582	5.089145228	2.347423
PKMYT1	16.50963624	30.00166375	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	POLR2A	63.83726015	323.632348	5.069646587	2.341885
CHCHD1	110.0642416	200.0110917	1.817221367	0.861734	LINC01977	0.829826533	0	547.0328046	9.095484	ISLR2	18.71092108	94.6002248	5.055882841	2.337963
SLC16A13	22.01284833	40.00221833	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF165	42.92505424	216.5847252	5.04564826	2.33504
HRAS	11.00642416	20.00110917	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH24	61.63597531	310.3551235	5.035291839	2.332075
CCDC163	11.00642416	20.00110917	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM44	37.42184215	188.3706231	5.033707916	2.331622
SLC5A7	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	IL2RB	83.64882364	420.7220524	5.029623061	2.33045
TTLL8	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	TRAM1L1	9.905781747	49.789592	5.026316274	2.329501
CHRNA6	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	RBMXP2	3.301927249	16.59653067	5.026316274	2.329501
CD1A	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	THBS2-AS1	3.301927249	16.59653067	5.026316274	2.329501
NLRP4	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	16.59653067	5.026316274	2.329501
TMEM225	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	16.59653067	5.026316274	2.329501
OR4A5	5.503212081	10.00055458	1.817221367	0.861734	MTND1P8	0.829826533	0	547.0328046	9.095484	C1GALT1C1I	42.92505424	215.7548987	5.026316274	2.329501
ENSG000002	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	TBX15	25.31477557	126.9634596	5.0153895	2.326362
ENSG000002	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	BTBD3	373.1177791	1871.258833	5.015196105	2.326306
LINC00639	5.503212081	10.00055458	1.817221367	0.861734	ENSG000002	0.829826533	0	547.0328046	9.095484	PRTFDC1	47.3276239	237.3303885	5.014627167	2.326142
TCF24	5.503212081	10.00055458	1.817221367	0.861734	ABHD17AP5	0.829826533	0	547.0328046	9.095484	CFAP300	22.01284833	110.3669289	5.013750484	2.32589
TECR	383.0235609	695.5941299	1.816060945	0.860813	MIR4747	0.829826533	0	547.0328046	9.095484	NOMO1	91.35332055	456.4045934	4.99603726	2.320784
EOLA2	141.9828717	257.7920737	1.815656146	0.860491	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORD15B	44.02569665	219.9040313	4.994901797	2.320456
COLGALT1	594.3469048	1078.948722	1.815351798	0.860249	ENSG000002	0.829826533	0	547.0328046	9.095484	RPS6KL1	23.11349074	115.3458881	4.990414015	2.31916
LRRC41	852.9978726	1547.863615	1.814616032	0.859664	ENSG000002	0.829826533	0	547.0328046	9.095484	B3GNT7	47.3276239	235.6707355	4.979559844	2.316018
RAP2C	146.3854414	265.5702828	1.814185074	0.859322	RN7SL122P	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	54.7685512	4.976053111	2.315002
ATG14	254.2483982	461.1366835	1.81372503	0.858956	MIR5582	0.829826533	0	547.0328046	9.095484	LINC01194	5.503212081	27.3842756	4.976053111	2.315002
ELMOD3	183.8072835	333.3518194	1.813594179	0.858852	MIR4522	0.829826533	0	547.0328046	9.095484	MYH14	314.7837311	1565.882668	4.974471404	2.314543
UBE4B	1511.182038	2740.151956	1.813250745	0.858578	ENSG000002	0.829826533	0	547.0328046	9.095484	PAFAH1B3	119.9700234	596.6452775	4.973286332	2.314199
SNORA74B	48.42826632	87.78264578	1.812632424	0.858086	MIR3155A	0.829826533	0	547.0328046	9.095484	TNNC1	24.21413316	120.3248473	4.969199044	2.313013
RHPN2	655.9828801	1188.954823	1.812478433	0.857964	MIR378D1	0.829826533	0	547.0328046	9.095484	PPAT	152.9892959	760.1211046	4.968459396	2.312799
AMN1	123.2719506	223.345719	1.81181297	0.857434	MIR4777	0.829826533	0	547.0328046	9.095484	RRM1	421.5460454	2093.652344	4.966604162	2.31226
ETNK2	112.2655265	203.3446099	1.811282735	0.857012	MIR4457	0.829826533	0	547.0328046	9.095484	DDX39A	146.3854414	726.9280432	4.965849311	2.31204
GEN1	256.449683	464.4702017	1.811155297	0.85691	ENSG000002	0.829826533	0	547.0328046	9.095484	PAX9	191.5117804	950.1513807	4.961320805	2.310724
TSPAN14	461.1691724	834.4907213	1.809511067	0.8556	MIR3664	0.829826533	0	547.0328046	9.095484	LOXL2	200.3169198	992.4725339	4.954511756	2.308743
GALNT7	1292.154197	2337.907427	1.809309936	0.85544	RN7SL498P	0.829826533	0	547.0328046	9.095484	WNT3A	7.704496914	38.17202053	4.954511756	2.308743
DNAJC4	222.3297681	402.2445288	1.809224794	0.855372	MIR378E	0.829826533	0	547.0328046	9.095484	LNCOC1	7.704496914	38.17202053	4.954511756	2.308743
MLST8	412.7409061	746.7080755	1.809144828	0.855308	ENSG000002	0.829826533	0	547.0328046	9.095484	ELOVL4	25.31477557	125.3038065	4.949828853	2.307379
USP20	407.237694	736.7075209	1.809035685	0.855221	ENSG000002	0.829826533	0	547.0328046	9.095484	NANOS1	9.905781747	48.95976547	4.942544336	2.305254
ZNF696	79.24625397	143.3412824	1.808808305	0.85504	LINC01543	0.829826533	0	547.0328046	9.095484	MLF1	115.5674537	570.920655	4.940150852	2.304555
DBNDD1	26.41541799	47.78042745	1.808808305	0.85504	ENSG000002	0.829826533	0	547.0328046	9.095484	CAMTA1	293.8715252	1451.366607	4.938779305	2.304155
AKIP1	73.74304189	133.3407278	1.808180465	0.854539	MIR4448	0.829826533	0	547.0328046	9.095484	DDX11	206.9207743	1019.85681	4.928730878	2.301216
HAPLN1	20.91220591	37.77987287	1.806594342	0.853273	MIR548Y	0.829826533	0	547.0328046	9.095484	CA8	16.50963624	81.32300027	4.925789949	2.300355
KANK3	20.91220591	37.77987287	1.806594342	0.853273	ENSG000002	0.829826533	0	547.0328046	9.095484	EPCAM	2148.453997	10545.43559	4.908383239	2.295248
MYBBP1A	797.9657518	1441.191033	1.806081313	0.852863	RN7SL850P	0.829826533	0	547.0328046	9.095484	GDAP1	247.6445437	1214.866045	4.905684684	2.294455
RSKR	156.2912231	282.2378738	1.80584596	0.852675	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNH6	55.03212081	269.6936233	4.900658367	2.292976
ACD	114.4668113	206.678128	1.805572512	0.852456	ABHD15-AS	0.829826533	0	547.0328046	9.095484	HBEGF	11.00642416	53.93872467	4.900658367	2.292976
KLHL21	171.7002169	310.0171921	1.805572512	0.852456	ENSG000002	0.829826533	0	547.0328046	9.095484	GRIA1	11.00642416	53.93872467	4.900658367	2.292976

SRM	347.8030036	627.8125933	1.805080999	0.852064	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	43.15097974	4.900658367	2.292976	
B4GALNT4	72.64239948	131.1183823	1.804984186	0.851986	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC10A4	6.603854498	32.3632348	4.900658367	2.292976	
BLTP2	4316.719557	7787.098502	1.80393894	0.851151	ENSG000002	0.829826533	0	547.0328046	9.095484	ZMPSTE24-I	6.603854498	32.3632348	4.900658367	2.292976	
PGM2	464.4710997	837.8242395	1.803824264	0.851059	ENSG000002	0.829826533	0	547.0328046	9.095484	GAL	4.402569665	21.57548987	4.900658367	2.292976	
ENSG000002	195.9143501	353.3529286	1.803609222	0.850887	MIR3189	0.829826533	0	547.0328046	9.095484	MT-TW	4.402569665	21.57548987	4.900658367	2.292976	
IFT52	226.7323378	408.9115652	1.803499092	0.850799	ENSG000000	0.829826533	0	547.0328046	9.095484	C19orf81	4.402569665	21.57548987	4.900658367	2.292976	
CR2	30.81798766	55.55863657	1.802798975	0.850239	ENSG000000	0.829826533	0	547.0328046	9.095484	KRTAP5-7	4.402569665	21.57548987	4.900658367	2.292976	
EIF1	1415.426147	2551.252591	1.802462528	0.849969	ANXA8L1	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	21.57548987	4.900658367	2.292976	
SHC1	394.029985	710.0393754	1.801993255	0.849594	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	21.57548987	4.900658367	2.292976	
STT3B	2477.546079	4461.358517	1.800716667	0.848571	RN7SL154P	0.829826533	0	547.0328046	9.095484	ENSG000001	2.201284833	10.78774493	4.900658367	2.292976	
SIDT1	294.9721676	531.1405656	1.80064638	0.848515	ENSG000002	0.829826533	0	547.0328046	9.095484	OR8G2P	2.201284833	10.78774493	4.900658367	2.292976	
G6PC3	355.5075005	640.0354933	1.80034315	0.848272	MIR3134	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
MTG1	25.31477557	45.55808199	1.799663673	0.847727	MIR3122	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
SLC6A17	25.31477557	45.55808199	1.799663673	0.847727	NEK4P2	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
BDNF-AS	25.31477557	45.55808199	1.799663673	0.847727	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02646	2.201284833	10.78774493	4.900658367	2.292976	
GNPDA1	166.1970049	298.9054648	1.798500912	0.846795	MIR4653	0.829826533	0	547.0328046	9.095484	MUC5B-AS1	2.201284833	10.78774493	4.900658367	2.292976	
NDUFS1	35.22055732	63.33684569	1.798291978	0.846627	MIR4714	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
PRELID3A	35.22055732	63.33684569	1.798291978	0.846627	RN7SL405P	0.829826533	0	547.0328046	9.095484	TUBB3	2.201284833	10.78774493	4.900658367	2.292976	
TIMM8B	35.22055732	63.33684569	1.798291978	0.846627	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
ATP6V1E2	35.22055732	63.33684569	1.798291978	0.846627	MIR3173	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
TRMT12	195.9143501	352.2417559	1.797937495	0.846343	MIR5194	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
TLL1	90.25267814	162.2312188	1.797522491	0.84601	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
NUMA1	8942.719632	16073.11356	1.797340655	0.845864	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
MTOR	1737.914375	3123.506548	1.79727298	0.84581	MIR4772	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
PRRT3	320.2869431	575.5874749	1.797099405	0.84567	ENSG000002	0.829826533	0	547.0328046	9.095484	RELA-DT	2.201284833	10.78774493	4.900658367	2.292976	
ATF3	84.74946605	152.2306642	1.796243343	0.844983	PPIAP14	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
MVK	94.6552478	170.0094279	1.796090886	0.84486	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	10.78774493	4.900658367	2.292976	
IGSF3	860.7023695	1545.641269	1.795790652	0.844619	MIR4637	0.829826533	0	547.0328046	9.095484	HUNK	102.3597447	501.2152262	4.896604886	2.291782	
CTDSP1	432.5524696	776.7097393	1.795642827	0.8445	MIR5009	0.829826533	0	547.0328046	9.095484	H4C8	441.3576089	2152.570028	4.877156265	2.28604	
TPP1	589.9443351	1058.947613	1.794995816	0.84398	MIR5191	0.829826533	0	547.0328046	9.095484	ZNF738	139.7815869	679.6279308	4.862070506	2.281571	
LPAR5	29.71734524	53.33629111	1.794786536	0.843812	MIR1273C	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	48.12993894	4.858772398	2.280592	
ENSG000002	29.71734524	53.33629111	1.794786536	0.843812	VN1R71P	0.829826533	0	547.0328046	9.095484	CTXN1	37.42184215	181.7320108	4.856308518	2.27986	
SLX9	39.62312699	71.11505481	1.794786536	0.843812	RN7SL45P	0.829826533	0	547.0328046	9.095484	LEF1	334.5952946	1624.800352	4.856016743	2.279773	
PKN3	39.62312699	71.11505481	1.794786536	0.843812	RN7SL525P	0.829826533	0	547.0328046	9.095484	TTBK1	7.704496914	37.342194	4.846804979	2.277034	
ATP10B	9.905781747	17.7787637	1.794786536	0.843812	MIR4265	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	37.342194	4.846804979	2.277034	
TCP11	9.905781747	17.7787637	1.794786536	0.843812	ENSG000002	0.829826533	0	547.0328046	9.095484	HSPA13	391.8287002	1897.813282	4.84347696	2.276043	
FFAR2	9.905781747	17.7787637	1.794786536	0.843812	MIR5094	0.829826533	0	547.0328046	9.095484	TMEM14A	106.7623144	516.9819303	4.842363462	2.275711	
PTH2R	9.905781747	17.7787637	1.794786536	0.843812	RN7SL630P	0.829826533	0	547.0328046	9.095484	DIPK1B	34.11991491	165.1354801	4.839856154	2.274964	
GABRA2	9.905781747	17.7787637	1.794786536	0.843812	ENSG000000	0.829826533	0	547.0328046	9.095484	TFRC	1061.019289	5130.817456	4.835743805	2.273738	
AKNAD1	9.905781747	17.7787637	1.794786536	0.843812	MIR4765	0.829826533	0	547.0328046	9.095484	C5AR2	5.503212081	26.55444907	4.825263623	2.270608	
PLSCR2	9.905781747	17.7787637	1.794786536	0.843812	ENSG000000	0.829826533	0	547.0328046	9.095484	LNC-LBCS	5.503212081	26.55444907	4.825263623	2.270608	
LENG8	9.905781747	17.7787637	1.794786536	0.843812	ENSG000000	0.829826533	0	547.0328046	9.095484	FOXE1	22.01284833	106.2177963	4.825263623	2.270608	
UGT1A2P	9.905781747	17.7787637	1.794786536	0.843812	ENSG000002	0.829826533	0	547.0328046	9.095484	NCAPG2	491.9871601	2370.814406	4.818854227	2.26869	
LRRC37A17I	9.905781747	17.7787637	1.794786536	0.843812	MIR4731	0.829826533	0	547.0328046	9.095484	MARCKSL1	190.411138	916.1284928	4.811317775	2.266432	
TSC1	2227.700251	3996.888315	1.794176893	0.843322	ENSG000000	0.829826533	0	547.0328046	9.095484	C12orf42	17.61027866	84.6423064	4.806414937	2.264961	
DNAJB2	395.1306275	708.9282027	1.79416161	0.84331	RN7SL200P	0.829826533	0	547.0328046	9.095484	FTH1P7	8.80513933	42.3211532	4.806414937	2.264961	
ZNF805	334.5952946	600.033275	1.79331056	0.842625	MIR4312	0.829826533	0	547.0328046	9.095484	USP1	707.7130737	3397.309828	4.800405636	2.263156	
PIGN	491.9871601	882.2711488	1.793280842	0.842601	ENSG000000	0.829826533	0	547.0328046	9.095484	GRIN2C	12.10706658	58.08785734	4.797847353	2.262387	
TMEM30B	622.9636076	1116.728595	1.792606472	0.842059	ENSG000000	0.829826533	0	547.0328046	9.095484	LRRN4	15.40899383	73.85456147	4.79295159	2.260914	
HENMT1	225.6316953	404.4668742	1.792597771	0.842052	MIR4472-1	0.829826533	0	547.0328046	9.095484	PRPS2	234.4368347	1123.585126	4.792698757	2.260838	
UBE2J2	195.9143501	351.1305831	1.792265768	0.841785	ENSG000002	0.829826533	0	547.0328046	9.095484	OTUD6B-AS	62.73661773	300.3972051	4.788227609	2.259492	
ADAMTS17	121.0706658	216.6786826	1.78968771	0.839708	CLUHP6	0.829826533	0	547.0328046	9.095484	RFC5	183.8072835	877.9564723	4.776505346	2.255955	
ZNF547	48.42826632	86.67147305	1.78968771	0.839708	ARGFXP2	0.829826533	0	547.0328046	9.095484	SORCS2	72.64239948	346.8674909	4.77500046	2.255501	
TFAP2E	24.21413316	43.33573653	1.78968771	0.839708	FEM1AP2	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	47.3001124	4.77500046	2.255501	
MICU1	676.895086	1211.178277	1.789314625	0.839407	ENSG000000	0.829826533	0	547.0328046	9.095484	RPRM	6.603854498	31.53340827	4.77500046	2.255501	
IQSEC1	2523.773061	4515.805981	1.789307466	0.839401	MIR4524B	0.829826533	0	547.0328046	9.095484	SPEN-AS1	6.603854498	31.53340827	4.77500046	2.255501	
SELENOW	216.826556	387.7992833	1.788523004	0.838769	MIR5188	0.829826533	0	547.0328046	9.095484	LARRPM	6.603854498	31.53340827	4.77500046	2.255501	
MTG2	255.3490406	456.6919926	1.788500915	0.838751	ENSG000002	0.829826533	0	547.0328046	9.095484	MYLK2	3.301927249	15.76670413	4.77500046	2.255501	
NLGN3	154.0899383	275.5708374	1.788376584	0.838651	ENSG000000	0.829826533	0	547.0328046	9.095484	AGMO	3.301927249	15.76670413	4.77500046	2.255501	
LRATD1	408.3383364	730.0404846	1.787832342	0.838211	MIR3128	0.829826533	0	547.0328046	9.095484	AARD	3.301927249	15.76670413	4.77500046	2.255501	
ACTR6	187.1092108	334.4629922	1.787528208	0.837966	ENSG000002	0.829826533	0	547.0328046	9.095484	PCDHA10	3.301927249	15.76670413	4.77500046	2.255501	
HSD17B11	187.1092108	334.4629922	1.787528208	0.837966	ENSG000000	0.829826533	0	547.0328046	9.095484	RDM1P5	3.301927249	15.76670413	4.77500046	2.255501	
ARHGAP31	368.7152095	658.9254297	1.787085026	0.837608	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	15.76670413	4.77500046	2.255501	
INTS1	1692.788036	3024.612175	1.786763676	0.837349	MIR4308	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	15.76670413	4.77500046	2.255501	
DENND10	291.6702403	521.140011	1.78674386	0.837333	MIR3682	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	15.76670413	4.77500046	2.255501	
EPHA8	14.30835141	25.55697282	1.786157754	0.83686	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	15.76670413	4.77500046	2.255501	
OIT3	14.30835141	25.55697282	1.786157754	0.83686	ENSG000000	0.829826533	0	547.0328046	9.095484	LANCL1	446.860821	2130.164711	4.766953402	2.253068	
HHEX	14.30835141	25.55697282	1.786157754	0.83686	DTX2P1-UPI	0.829826533	0	547.0328046	9.095484	ESPN	34.11991491	162.6460005	4.766893499	2.253049	
TEKT4	14.30835141	25.55697282	1.786157754	0.83686	KRT18P55	0.829826533	0	547.0328046	9.095484	RAD21	2720.788053	12966.03958	4.765545618	2.252641	
FRAT2	14.30835141	25.55697282	1.786157754	0.83686	ARHGAP44-	0.829826533	0	547.0328046	9.095484	SNX16	278.4625313	1326.0628	4.762087	2.251594	
FTH1P8	14.30835141	25.55697282	1.786157754	0.83686	LINC01892	0.829826533	0	547.0328046	9.095484	FANCG	89.15203572	423.211532	4.747076481	2.247039	
ENSG000002	14.30835141	25.55697282	1.786157754	0.83686	MIR5697	0.829826533	0	547.0328046	9.095484	NTAQ1	169.4989321	804.1019108	4.743993964	2.246102	
ATP6AP2	1273.443276	2274.570581	1.786157754	0.83686	MIR4304	0.829826533	0	547.0328046	9.095484	HOXD8	52.83083598	250.6076131	4.743585984	2.245978	
MPG	186.0085684	332.2406467	1.786157754	0.83686	ENSG000000	0.829826533	0	547.0328046	9.095484	ERO1A	407.237694	1931.006343	4.741718096	2.24541	
HDAC7	576.7366261	1030.057122	1.78600955	0.83674	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNK16	7.704496914	36.51236747	4.739098201	2.244613	
FBXO30	871.7087937	1556.752997	1.785863591	0.836622	ENSG000002	0.829826533	0	547.0328046	9.095484	KNDC1	27.51606041	130.2827657	4.73478993	2.2433	
CERS5	276.2612465	493.3606928	1.785848356	0.83661	ENSG000000	0.829826533	0	547.0328046	9.095484	RERGL	31.91863007	151.0284291	4.731670148	2.24235	
TRPM2	147.4860838	263.3479374	1.785578209	0.836391	MIR3151	0.829826533	0	547.0328046	9.095484	FGFR4	24.21413316	114.5160616	4.729306676	2.241629	
LYPLA2	75.94432672	135.5630732	1.785032261	0.83595	ENSG000002	0.829826533	0	547.0328046	9.095484	SPDL1	139.7815869	660.5419206	4.725528844	2.240476	
MRPS26	123.2719506	220.0122008	1.784770986	0.835739	ENSG000000	0.829826533	0	547.0328046	9.095484	KSR2	189.3104956	893.7231764	4.720938338	2.239074	
BICD2	417.1434758	744.4857301	1.784723418	0.835701	RN7SL378P	0.829826533	0	547.0328046	9.095484	DSN1	101.2591023	477.9800832	4.720366588	2.238899	
FOXRED1	127.6745203	227.7904099	1.784149331	0.835236	ENSG000002	0.829826533	0	547.0328046	9.095484	RMST	22.01284833	103.7283167	4.712171507	2.236392	
CASP10	80.34689639	143.3412824	1.784030109	0.83514	LINC01970	0.829826533	0	547.0328046	9.095484	BOLA2B	8.80513933	41.49132667	4.712171507	2.236392	
C19orf18	33.01927249	58.89215477	1.78356912	0.834767	ENSG000000	0.829826533	0	547.0328046	9.095484	LRRC46	4.402569665	20.74566333	4.712171507	2.236392	
SHROOM2	611.9571835	1091.171622	1.783084915	0.834375	MIR4427	0.829826533	0	547.0328046	9.095484	IPO9-AS1	4.402569665	20.74566333	4.712171507	2.236392	
TULP4	2306.946505	4111.339106	1.782156239	0.833624	ENSG000002	0.829826533	0	547.0328046	9.095484	GAS2L3	249.8458285	1176.694024	4.709680491	2.235629	
CENPO	126.5738779	225.5680645	1.782105979	0.833583	CXADRP3	0.829826533	0	547.0328046	9.095484	TET1	1062.119932	5002.194343	4.709632306	2.235614	
DCST2	74.84368431	133.3407278	1.781589576	0.833165	ENSG000000	0.829826533	0	547.0328046	9.095484	FBLN7	72.64239948	341.8885317	4.706459784	2.234642	
GABRA6	18.71092108	33.33518194	1.781589576	0.833165	MIR3939	0.829826533	0	547.0328046	9.095484	RAPGEF5	152.9892959	719.4596044	4.702679363	2.233483	
MYLK4	18.71092108	33.33518194	1.781589576	0.833165	MIR548X	0.829826533	0	547.0328046	9.095484	CCT5	1158.976464	5449.470845	4.701968515	2.233265	
TDRD10	18.71092108	33.33518194	1.781589576	0.833165	ENSG000000	0.829826533	0	547.0328046	9.095484	MT-CO3	4423.481871	20759.77039	4.693083636	2.230536	
ENSG000001	56.13276323	100.0055458	1.781589576	0.833165	MIR3174	0.829826533	0	547.0328046	9.095484	TRIM46	9.905781747	46.47028587	4.691228523	2.229966	
ATP1B3	275.1606041	490.0271746	1.78087694	0.832588	RN7SL96P	0.829826533	0	547.0328046	9.095484	ENSG000002	19.81156349	92.94057174	4.691228523	2.229966	
H4C16	256.449683	456.6919926	1.780824945	0.832546	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM106B	19.81156349	92.94057174	4.691228523	2.229966	
USP44	79.24625397	141.1189369	1.780764766	0.832497	ENSG000000	0.829826533	0	547.0328046	9.095484	BMP3	72.64239948	340.2288787	4.683612892	2.227622	
SLC25A29	582.2398382	1036.724158	1.780579222	0.832347	LINC02079	0.829826533	0	547.0328046	9.095484	SBK1	90.25267814	422.3817055	4.679990824	2.226506	
MAN2B1	679.0963709	1208.955932	1.780242074	0.832073	SNORA59B	0.829826533	0	547.0328046	9.095484	PTMAP5	5.503212081	25.72462253	4.674474135	2.224804	
NARS2	209.1220591	372.242865	1.780026778	0.831899	ENSG000000	0.829826533	0	547.0328046	9.095484	CHORDC1P4	5.503212081	25.72462253	4.674474135	2.224804	
ARHGEF17	1490.269832	2651.258137	1.779045701	0.831104	ENSG000000	0.829826533	0	547.0328046	9.095484	MIR5690	5.503212081	25.72462253	4.674474135	2.224804	
NUCB2	1221.713082	2173.453863	1.779021519	0.831084	ZNF415P1	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	25.72462253	4.674474135	2.224804	
P3H4	189.3104956	336.6853376	1.778482152	0.830646	MIR4654	0.829826533	0	547.0328046	9.095484	H1-4	676.895086	3164.128572	4.674474135	2.224804	

PGK1	620.7623228	1103.394522	1.777483075	0.829836	MIR5190	0.829826533	0	547.0328046	9.095484	BNIP3	425.9486151	1984.945068	4.660057569	2.220348
GPC1	638.3726015	1134.507359	1.777186797	0.829595	RN7SL804P	0.829826533	0	547.0328046	9.095484	SNRPB	123.2719506	574.2399611	4.658318118	2.219809
UNC13C	27.51606041	48.89160018	1.77683867	0.829313	MIR4661	0.829826533	0	547.0328046	9.095484	DENND11	6.603854498	30.70358173	4.649342554	2.217027
PLPP1	1605.837285	2850.158056	1.774873508	0.827716	ENSG000002	0.829826533	0	547.0328046	9.095484	GALNT15	20.91220591	97.0897044	4.64272898	2.214973
PTPN13	3950.205632	7009.27759	1.774408282	0.827338	MIR3611	0.829826533	0	547.0328046	9.095484	ETV4	29.71734524	137.7512045	4.635380564	2.212688
GTPBP3	77.04496914	136.674246	1.773954192	0.826969	MIR3176	0.829826533	0	547.0328046	9.095484	KCNK3	37.42184215	173.4337455	4.63455927	2.212432
PCCB	701.1092192	1243.402286	1.773478728	0.826582	ENSG000001	0.829826533	0	547.0328046	9.095484	RAB30-DT	45.12633907	209.1162864	4.634018419	2.212264
L3HYPDH	126.5738779	224.4568918	1.773327131	0.826459	COX6CP3	0.829826533	0	547.0328046	9.095484	SNORA74A	7.704496914	35.68254093	4.631391424	2.211446
RFX3	1272.342633	2255.680645	1.772856293	0.826076	LINC01910	0.829826533	0	547.0328046	9.095484	FANCD2	230.034265	1064.667442	4.628299363	2.210482
CCS	275.1606041	487.8048291	1.7728004	0.82603	MIR744	0.829826533	0	547.0328046	9.095484	PHF13	81.44753881	376.7412461	4.625569436	2.209631
CYB561	482.0813783	854.4918305	1.772505367	0.82579	ENSG000002	0.829826533	0	547.0328046	9.095484	RTN4R	17.61027866	81.32300027	4.617928077	2.207246
ENPP4	454.5653179	805.6002303	1.772243061	0.825576	ENSG000002	0.829826533	0	547.0328046	9.095484	PDK4	214.6252712	989.9830543	4.612611781	2.205584
NDUFAF8	53.9314784	95.5608549	1.77189385	0.825292	SNHG25	0.829826533	0	547.0328046	9.095484	RHOQP1	9.905781747	45.64045934	4.607456585	2.203971
GLUD1	1365.897239	2420.134209	1.771827441	0.825238	MIR4451	0.829826533	0	547.0328046	9.095484	TDG	223.4304105	1027.325248	4.597965183	2.200996
FLOT2	756.14134	1338.963141	1.770784205	0.824388	ARHGAP28-	0.829826533	0	547.0328046	9.095484	USH1C	13.207709	60.57733694	4.5865136	2.197398
AUP1	362.111355	641.146666	1.770578738	0.824221	ENSG000001	0.829826533	0	547.0328046	9.095484	H2BC7	753.9400552	3457.057338	4.585321226	2.197023
TBC1D1	698.9079343	1236.73525	1.769525268	0.823362	ENSG000001	0.829826533	0	547.0328046	9.095484	PRTG	88.0513933	403.2956952	4.580230705	2.19542
SYNGR1	137.580302	243.3468282	1.768762131	0.82274	MIR4318	0.829826533	0	547.0328046	9.095484	CEP78	259.7516102	1187.481769	4.571605035	2.192701
PCDHGA4	146.3854414	258.9032464	1.768640679	0.822641	LINC01443	0.829826533	0	547.0328046	9.095484	CKAP2	413.8415485	1890.344843	4.567798593	2.191499
KAT5	372.0171367	657.814257	1.768236439	0.822311	ENSG000001	0.829826533	0	547.0328046	9.095484	XKRX	23.11349074	105.3879697	4.559586906	2.188903
NDUFV1	659.2848074	1165.620195	1.768007062	0.822124	ENSG000001	0.829826533	0	547.0328046	9.095484	SLITRK4	61.63597531	280.4813683	4.550611341	2.18606
NCSTN	1147.97004	2029.001408	1.767468955	0.821685	COP1P1	0.829826533	0	547.0328046	9.095484	CMTM7	49.52890873	224.8829905	4.540439034	2.182832
GSS	450.1627483	795.5996757	1.767360091	0.821596	MIR4742	0.829826533	0	547.0328046	9.095484	MTBP	203.618847	924.4267582	4.539986213	2.182688
BDKRB2	22.01284833	38.8910456	1.766742996	0.821092	MIR4754	0.829826533	0	547.0328046	9.095484	BARD1	611.9571835	2778.259234	4.539956894	2.182679
TEX29	17.61027866	31.11283648	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	SYNE2	10343.83743	46955.73439	4.539488823	2.18253
POU4F1	8.80513933	15.55641824	1.766742996	0.821092	MIR5692C2	0.829826533	0	547.0328046	9.095484	CFAP418	62.73661773	284.6305009	4.536911795	2.181711
JPH3	8.80513933	15.55641824	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	RECQL	487.5845904	2206.508752	4.52538656	2.178041
OR5M1	8.80513933	15.55641824	1.766742996	0.821092	MIR4274	0.829826533	0	547.0328046	9.095484	CALN1	5.503212081	24.894796	4.523684647	2.177498
EBF3-AS1	8.80513933	15.55641824	1.766742996	0.821092	ENSG000002	0.829826533	0	547.0328046	9.095484	H4C15	5.503212081	24.894796	4.523684647	2.177498
P2RX3	4.402569665	7.77820912	1.766742996	0.821092	GAPLINC	0.829826533	0	547.0328046	9.095484	CNIH2	19.81156349	89.6212656	4.523684647	2.177498
PRKAG3	4.402569665	7.77820912	1.766742996	0.821092	ENSG000000	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	34.8527144	4.523684647	2.177498
SFRP5	4.402569665	7.77820912	1.766742996	0.821092	AKR1B1P7	0.829826533	0	547.0328046	9.095484	ZSCAN16-AS	13.207709	59.7475104	4.523684647	2.177498
GFAP	4.402569665	7.77820912	1.766742996	0.821092	SLC25A6P4	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	39.8316736	4.523684647	2.177498
ASB11	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	SNCB	6.603854498	29.8737552	4.523684647	2.177498
CSN3	4.402569665	7.77820912	1.766742996	0.821092	SOCS3-DT	0.829826533	0	547.0328046	9.095484	NAALADL1	6.603854498	29.8737552	4.523684647	2.177498
TSPEAR	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	NTSR1	4.402569665	19.9158368	4.523684647	2.177498
OR51G2	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	NKX6-2	4.402569665	19.9158368	4.523684647	2.177498
ZNF705EP	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	LINC01588	4.402569665	19.9158368	4.523684647	2.177498
THAP12P8	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	UQCRBP1	4.402569665	19.9158368	4.523684647	2.177498
SIRPAP1	4.402569665	7.77820912	1.766742996	0.821092	ENSG000002	0.829826533	0	547.0328046	9.095484	C4orf48	4.402569665	19.9158368	4.523684647	2.177498
LRRC37A15I	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	TMPO-AS1	4.402569665	19.9158368	4.523684647	2.177498
CHCHD2P6	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	19.9158368	4.523684647	2.177498
FAM21FP	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	MZF1-AS1	4.402569665	19.9158368	4.523684647	2.177498
PSMD12P1	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	PLA2G4D	3.301927249	14.9368776	4.523684647	2.177498
MAP2K1P1	4.402569665	7.77820912	1.766742996	0.821092	PCAT19	0.829826533	0	547.0328046	9.095484	SHISA7	3.301927249	14.9368776	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	RPL10P15	0.829826533	0	547.0328046	9.095484	GTF3C6P2	3.301927249	14.9368776	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	SCAT1	0.829826533	0	547.0328046	9.095484	MTND1P23	3.301927249	14.9368776	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	HMGB3P27	0.829826533	0	547.0328046	9.095484	PPP2R5CP	3.301927249	14.9368776	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	ZNF222-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.9368776	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	TPMTP1	0.829826533	0	547.0328046	9.095484	RETSAT	2.201284833	9.9579184	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	ANXA10	2.201284833	9.9579184	4.523684647	2.177498
ENSG000002	4.402569665	7.77820912	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	SNORA7B	2.201284833	9.9579184	4.523684647	2.177498
TMEM200C	26.41541799	46.66925472	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	YWHAZP5	2.201284833	9.9579184	4.523684647	2.177498
CCNP	13.207709	23.33462736	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	FAM149B1P1	2.201284833	9.9579184	4.523684647	2.177498
ABR	13.207709	23.33462736	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	FBXW4P1	2.201284833	9.9579184	4.523684647	2.177498
TMEM31	13.207709	23.33462736	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	THEGL	2.201284833	9.9579184	4.523684647	2.177498
SNORC	13.207709	23.33462736	1.766742996	0.821092	SELENOKP1	0.829826533	0	547.0328046	9.095484	Y_RNA.125	2.201284833	9.9579184	4.523684647	2.177498
SLC38A3	13.207709	23.33462736	1.766742996	0.821092	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.9579184	4.523684647	2.177498
RIMKLBP1	13.207709	23.33462736	1.766742996	0.821092	ENSG000001	0.829826533	0	547.0328046	9.095484	OR52B2	2.201284833	9.9579184	4.523684647	2.177498
ZDHHC17	947.6531204	1673.426134	1.765863582	0.820374	LINC01478	0.829826533	0	547.0328046	9.095484	HIF1A-AS3	2.201284833	9.9579184	4.523684647	2.177498
GGT7	311.4818038	550.0305021	1.765851152	0.820364	ENSG000001	0.829826533	0	547.0328046	9.095484	CRTC3-AS1	2.201284833	9.9579184	4.523684647	2.177498
ZNF433	289.4689555	511.1394565	1.765783331	0.820308	TAF5LP1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.9579184	4.523684647	2.177498
APMAP	1568.415443	2767.931274	1.764794708	0.8195	SMCO4P1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.9579184	4.523684647	2.177498
KLHL3	86.95075089	153.3418369	1.763548162	0.818481	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.9579184	4.523684647	2.177498
ASRGL1	82.54818122	145.5636278	1.763377771	0.818342	MIR122HG	0.829826533	0	547.0328046	9.095484	AQP8	1.100642416	4.9789592	4.523684647	2.177498
DGKZP1	78.14561156	137.7854187	1.763188181	0.818186	ENSG000001	0.829826533	0	547.0328046	9.095484	DKKL1	1.100642416	4.9789592	4.523684647	2.177498
RABGAP1L	1200.800876	2116.784053	1.762810217	0.817877	ENSG000001	0.829826533	0	547.0328046	9.095484	MRM2	1.100642416	4.9789592	4.523684647	2.177498
FAM234B	285.0663858	502.2500746	1.761870566	0.817108	ENSG000001	0.829826533	0	547.0328046	9.095484	GPR12	1.100642416	4.9789592	4.523684647	2.177498
BMP5	271.8586768	478.9154472	1.761633849	0.816914	ENSG000001	0.829826533	0	547.0328046	9.095484	IL36G	1.100642416	4.9789592	4.523684647	2.177498
TOR4A	51.73019357	91.11616398	1.761372956	0.8167	LINC02594	0.829826533	0	547.0328046	9.095484	COX6A2	1.100642416	4.9789592	4.523684647	2.177498
SPINT1	533.8115719	940.0521308	1.761018645	0.81641	ENSG000001	0.829826533	0	547.0328046	9.095484	HJV	1.100642416	4.9789592	4.523684647	2.177498
NDUFS8	576.7366261	1015.611877	1.76096303	0.816365	ENSG000002	0.829826533	0	547.0328046	9.095484	HES3	1.100642416	4.9789592	4.523684647	2.177498
TMEM143	47.3276239	83.33795486	1.760873418	0.816291	LINC01837	0.829826533	0	547.0328046	9.095484	HTR1A	1.100642416	4.9789592	4.523684647	2.177498
B3GNT3	47.3276239	83.33795486	1.760873418	0.816291	UQCRFS1-D	0.829826533	0	547.0328046	9.095484	CDH4	1.100642416	4.9789592	4.523684647	2.177498
FAM162A	408.3383364	718.9287572	1.760620282	0.816084	ADAD1P2	0.829826533	0	547.0328046	9.095484	POU3F1	1.100642416	4.9789592	4.523684647	2.177498
EXOSC5	90.25267814	158.8977006	1.760587097	0.816057	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM9C	1.100642416	4.9789592	4.523684647	2.177498
MAD2L1BP	85.85010847	151.1194915	1.76027141	0.815798	MIR23AHG	0.829826533	0	547.0328046	9.095484	CLPSL2	1.100642416	4.9789592	4.523684647	2.177498
F10	42.92505424	75.55974574	1.76027141	0.815798	ENSG000001	0.829826533	0	547.0328046	9.095484	RNA5SP188	1.100642416	4.9789592	4.523684647	2.177498
MRPL4	346.7023611	610.0338296	1.7595318	0.815192	MTCO2P2	0.829826533	0	547.0328046	9.095484	PDCD4-AS1	1.100642416	4.9789592	4.523684647	2.177498
PLXNA3	1180.989313	2077.893008	1.759451153	0.815125	ENSG000001	0.829826533	0	547.0328046	9.095484	IFIT1B	1.100642416	4.9789592	4.523684647	2.177498
CRADD	111.164884	195.5664007	1.759246208	0.814957	ENSG000001	0.829826533	0	547.0328046	9.095484	LINC01973	1.100642416	4.9789592	4.523684647	2.177498
CWF19L2	538.2141416	946.7191672	1.759000914	0.814756	STK25P1	0.829826533	0	547.0328046	9.095484	HNRNPA1P3	1.100642416	4.9789592	4.523684647	2.177498
STK40	332.3940097	584.4768567	1.75838565	0.814252	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01521	1.100642416	4.9789592	4.523684647	2.177498
PHF12	3005.854439	5284.737511	1.75814818	0.814057	ZNF24TR	0.829826533	0	547.0328046	9.095484	PGGT1BP2	1.100642416	4.9789592	4.523684647	2.177498
COL4A5	1435.237711	2522.3621	1.757452498	0.813486	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498
COA6	59.43469048	104.4502368	1.757395149	0.813439	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD49P1	1.100642416	4.9789592	4.523684647	2.177498
NHP2	208.0214167	365.5758286	1.757395149	0.813439	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498
CNGA1	343.4004339	603.3667932	1.757035617	0.813143	ENSG000001	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498
ANKRD13D	254.2483982	446.691438	1.756909547	0.81304	ENSG000001	0.829826533	0	547.0328046	9.095484	CEACAMP5	1.100642416	4.9789592	4.523684647	2.177498
SF3B5	394.029985	692.2606117	1.756872923	0.81301	ENSG000002	0.829826533	0	547.0328046	9.095484	SRP14P3	1.100642416	4.9789592	4.523684647	2.177498
DPY19L4	898.1242117	1577.865279	1.756845276	0.812987	LDLRAD4-A	0.829826533	0	547.0328046	9.095484	KDM5C-IT1	1.100642416	4.9789592	4.523684647	2.177498
COX11	224.5310529	394.4663197	1.756845276	0.812987	RDM1P3	0.829826533	0	547.0328046	9.095484	RPL36AP33	1.100642416	4.9789592	4.523684647	2.177498
JPT1	220.1284833	386.6881105	1.756647322	0.812825	EDDM13	0.829826533	0	547.0328046	9.095484	CHFR-DT	1.100642416	4.9789592	4.523684647	2.177498
SLC12A7	126.5738779	222.2345463	1.755769437	0.812103	ENSG000001	0.829826533	0	547.0328046	9.095484	UGT1A10	1.100642416	4.9789592	4.523684647	2.177498
TEX14	46.22698148	81.11560939	1.754724336	0.811244	ENSG000001	0.829826533	0	547.0328046	9.095484	RNU6-518P	1.100642416	4.9789592	4.523684647	2.177498
ADCY10	46.22698148	81.11560939	1.754724336	0.811244	ENSG000001	0.829826533	0	547.0328046	9.095484	LINC01151	1.100642416	4.9789592	4.523684647	2.177498
SRSF9	941.0492659	1651.202679	1.754639995	0.811175	UBE2L4	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498
PRTG	88.0513933	154.4530097	1.754123403	0.81075	ENSG000001	0.829826533	0	547.0328046	9.095484	PRECSIT	1.100642416	4.9789592	4.523684647	2.177498
LRRC75B	108.9635992	191.1217098	1.753995932	0.810645	ENSG000001	0.829826533	0	547.0328046	9.095484	LINC01397	1.100642416	4.9789592	4.523684647	2.177498
RALGPS1	561.3276323	984.4990401	1.75387596	0.810547	CBARP-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498
ALOX12B	20.91220591	36.66870014	1.753459214	0.810204	LINC01533	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498

DNASE1L1	162.8950776	285.571392	1.753100193	0.809908	LINC01987	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
FBXL13	79.24625397	138.8965914	1.752721226	0.809597	MAN1A2P1	0.829826533	0	547.0328046	9.095484	NDUFB10P2	1.100642416	4.9789592	4.523684647	2.177498	
KRBA1	137.580302	241.1244827	1.752609052	0.809504	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
ECHDC3	95.75589022	167.7870824	1.752237717	0.809199	ENSG000002	0.829826533	0	547.0328046	9.095484	MSANTD3P1	1.100642416	4.9789592	4.523684647	2.177498	
CLDN12	320.2869431	561.1422294	1.751998454	0.809002	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
ZNF16	166.1970049	291.1272556	1.751699773	0.808756	SNX6P1	0.829826533	0	547.0328046	9.095484	ZNF460-AS1	1.100642416	4.9789592	4.523684647	2.177498	
RYR3	53.9314784	94.44968217	1.751290433	0.808418	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
NDUFS7	215.7259136	377.7987287	1.751290433	0.808418	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
MED28	260.8522527	456.6919926	1.750768828	0.807989	FMR1-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
MED12	1822.663841	3190.176912	1.750282657	0.807588	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR6081	1.100642416	4.9789592	4.523684647	2.177498	
DDX54	466.6723845	816.7119576	1.750075609	0.807417	GABRQ	0.829826533	0	547.0328046	9.095484	HERC2P2	1.100642416	4.9789592	4.523684647	2.177498	
TOPAZ1	16.50963624	28.89049102	1.749916872	0.807286	ENSG000002	0.829826533	0	547.0328046	9.095484	RN7SL856P	1.100642416	4.9789592	4.523684647	2.177498	
SPATA31C1	16.50963624	28.89049102	1.749916872	0.807286	PCGF7P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
PLEKHO2	111.164884	194.455228	1.749250491	0.806737	VN1R91P	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
TBX3	2704.278417	4730.262318	1.749177262	0.806676	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
ARHGEF11	1456.149917	2546.8079	1.749001165	0.806531	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
PTGER4	61.63597531	107.7837549	1.748715006	0.806295	ENSG000002	0.829826533	0	547.0328046	9.095484	PTENP1-AS	1.100642416	4.9789592	4.523684647	2.177498	
SH3RF3	135.3790172	236.6797918	1.748275299	0.805932	ENSG000002	0.829826533	0	547.0328046	9.095484	NBPF13P	1.100642416	4.9789592	4.523684647	2.177498	
AAAS	28.61670282	50.00277291	1.747328238	0.805151	LRRC2-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
ZNF420	200.3169198	350.0194104	1.747328238	0.805151	FENDRR	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
SMPD4BP	269.657392	471.1372381	1.74716975	0.80502	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02835	1.100642416	4.9789592	4.523684647	2.177498	
BAHD1	253.1477557	442.2467471	1.74699059	0.804872	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
MRFAP1	533.8115719	932.2739217	1.746447568	0.804423	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
PCDHGA10	122.1713082	213.3451644	1.746278791	0.804284	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
IDNK	40.7237694	71.11505481	1.746278791	0.804284	ILVBL-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.9789592	4.523684647	2.177498	
SLC29A3	134.2783748	234.4574463	1.746055139	0.804099	IGFL2-AS1	0.829826533	0	547.0328046	9.095484	LAPTM4B	290.5695979	1310.296096	4.509405339	2.172937	
LHFPL6	429.2505424	748.930421	1.744739603	0.803012	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM13	36.32119974	163.4758271	4.500837755	2.170194	
PITPNM2	222.3297681	387.7992833	1.744252632	0.802609	ENSG000002	0.829826533	0	547.0328046	9.095484	DYNC2I2	211.3233439	948.4917276	4.48834336	2.166183	
CRLS1	36.32119974	63.33684569	1.743798282	0.802233	ENSG000002	0.829826533	0	547.0328046	9.095484	CYRIB	626.2655349	2808.962815	4.485258503	2.165191	
COL23A1	24.21413316	42.22456379	1.743798282	0.802233	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPO	126.5738779	565.9416958	4.471236129	2.160674	
HAS3	12.10706658	21.1122819	1.743798282	0.802233	ESPNP	0.829826533	0	547.0328046	9.095484	C8orf88	38.52248457	171.7740924	4.45906058	2.15674	
SEMA6A-AS	12.10706658	21.1122819	1.743798282	0.802233	ENSG000002	0.829826533	0	547.0328046	9.095484	CNKSR3	176.1027866	784.186074	4.453002074	2.154778	
ENSG000002	12.10706658	21.1122819	1.743798282	0.802233	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPL13	199.2162773	887.0845642	4.452871904	2.154736	
CAMTA2	915.7344904	1596.755215	1.743687971	0.802142	CT45A1	0.829826533	0	547.0328046	9.095484	BFSP1	44.02569665	195.8390619	4.448289903	2.153251	
SLC44A1	943.2505508	1644.535643	1.743477002	0.801967	ENSG000002	0.829826533	0	547.0328046	9.095484	PPP1R14C	11.00642416	48.95976547	4.448289903	2.153251	
AKAP8L	912.4325631	1590.088179	1.742691178	0.801317	ENSG000002	0.829826533	0	547.0328046	9.095484	PANX1	128.7751627	572.580308	4.446356704	2.152624	
MTMR8	56.13276323	97.78320037	1.741998696	0.800744	MAN1B1-DT	0.829826533	0	547.0328046	9.095484	TBC1D31	361.0107125	1604.054689	4.443232938	2.15161	
EHD4	368.7152095	642.2578388	1.741880515	0.800646	BNIP3P18	0.829826533	0	547.0328046	9.095484	NPEPPSP1	9.905781747	43.98080627	4.439912709	2.150531	
DENND4B	771.5503338	1343.407832	1.741179769	0.800065	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC5A3	472.1755966	2093.652344	4.434054531	2.148627	
CERCAM	455.6659603	793.3773302	1.741138025	0.800031	ENSG000002	0.829826533	0	547.0328046	9.095484	MEAK7	146.3854414	648.9243491	4.432984203	2.148278	
ACER3	355.5075005	618.9232114	1.740956831	0.79988	TMSB15C	0.829826533	0	547.0328046	9.095484	PFN4	8.80513933	39.00184707	4.429441217	2.147125	
LCMT1	302.6766645	526.6958747	1.740127127	0.799193	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	39.00184707	4.429441217	2.147125	
LRFN3	135.3790172	235.5686191	1.740067434	0.799143	ENSG000002	0.829826533	0	547.0328046	9.095484	SLITRK1	7.704496914	34.02288787	4.415977869	2.142733	
ADM	71.54175706	124.4513459	1.739562334	0.798724	ENSG000002	0.829826533	0	547.0328046	9.095484	C2CD4C	7.704496914	34.02288787	4.415977869	2.142733	
RNF43	39.62312699	68.89270935	1.738699456	0.798009	ENSG000002	0.829826533	0	547.0328046	9.095484	GPRIN2	7.704496914	34.02288787	4.415977869	2.142733	
ZNF99	19.81156349	34.44635467	1.738699456	0.798009	ENSG000002	0.829826533	0	547.0328046	9.095484	PITPNA-AS1	7.704496914	34.02288787	4.415977869	2.142733	
WDSUB1	213.5246288	371.1316923	1.738121239	0.797529	BNIP3P34	0.829826533	0	547.0328046	9.095484	MT-ND1	9338.950902	41120.39421	4.40310637	2.138522	
NECTIN2	694.5053647	1206.733586	1.737543938	0.797049	ENSG000002	0.829826533	0	547.0328046	9.095484	KLHL23	421.5460454	1855.492129	4.401635714	2.13804	
TDRD9	47.3276239	82.22678213	1.737395106	0.796926	ENSG000002	0.829826533	0	547.0328046	9.095484	MORC1	19.81156349	87.131786	4.39802674	2.136856	
HNRNPLP2	47.3276239	82.22678213	1.737395106	0.796926	TDGF1P7	0.829826533	0	547.0328046	9.095484	PIGAP1	6.603854498	29.04392867	4.39802674	2.136856	
TNFSF13	27.51606041	47.78042745	1.736455973	0.796146	ENSG000002	0.829826533	0	547.0328046	9.095484	HK2	151.8886534	666.3507063	4.387099965	2.133268	
ARHGEF4	82.54818122	143.3412824	1.736455973	0.796146	ZNF888-AS1	0.829826533	0	547.0328046	9.095484	MEDAG	17.61027866	77.1738676	4.382319502	2.131695	
LAMTOR4	82.54818122	143.3412824	1.736455973	0.796146	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFAB1	123.2719506	539.3872467	4.375587828	2.129477	
BLTP3A	616.3597531	1070.05934	1.736095413	0.795846	ENSG000002	0.829826533	0	547.0328046	9.095484	CHN2	161.7944352	707.842033	4.374946716	2.129265	
SCCPDH	1189.794452	2064.558935	1.735223199	0.795121	EXOSC3P2	0.829826533	0	547.0328046	9.095484	GOLT1B	144.1841565	630.6681654	4.374046223	2.128968	
RAC3	35.22055732	61.11450023	1.735194014	0.795097	MIR1470	0.829826533	0	547.0328046	9.095484	TMPRSS5	5.503212081	24.06496947	4.372895159	2.128589	
DDX11	206.9207743	358.9087923	1.734522759	0.794539	ZNF628-DT	0.829826533	0	547.0328046	9.095484	TXNP6	5.503212081	24.06496947	4.372895159	2.128589	
HAUS4	42.92505424	74.44857301	1.734385066	0.794424	ENSG000002	0.829826533	0	547.0328046	9.095484	RTL9	5.503212081	24.06496947	4.372895159	2.128589	
PCDH15	42.92505424	74.44857301	1.734385066	0.794424	ENSG000002	0.829826533	0	547.0328046	9.095484	DNMT3B	116.6680961	509.5134915	4.367204989	2.12671	
PCDHGA6	124.372593	215.5675099	1.733239652	0.793471	ENSG000002	0.829826533	0	547.0328046	9.095484	RUNX1T1	504.0942267	2199.040313	4.362359648	2.125109	
ARNT2	345.6017187	598.9221022	1.732983576	0.793258	ENSG000002	0.829826533	0	547.0328046	9.095484	PBX2	15.40899383	67.2159492	4.362124481	2.125031	
H2AC20	1015.89295	1760.097607	1.732562084	0.792907	ENSG000002	0.829826533	0	547.0328046	9.095484	PCDH8	29.71734524	129.4529392	4.356140771	2.123051	
RAI2	468.8736693	812.2672667	1.732379785	0.792755	ENSG000002	0.829826533	0	547.0328046	9.095484	SRL	9.905781747	43.15097974	4.356140771	2.123051	
EZR	1978.955065	3427.967876	1.732211073	0.792615	ENSG000002	0.829826533	0	547.0328046	9.095484	BAALC-AS1	9.905781747	43.15097974	4.356140771	2.123051	
MAPK7	263.0535375	455.5808199	1.731893911	0.792351	MKNK1-AS	0.829826533	0	547.0328046	9.095484	TMEM255B	49.52890873	215.7548987	4.356140771	2.123051	
RPS19	737.4304189	1276.737468	1.731332795	0.791883	ERBIN-DT	0.829826533	0	547.0328046	9.095484	NAIF1	38.52248457	167.6249597	4.351353803	2.121464	
RNF149	412.7409061	714.4840663	1.731071614	0.791665	ENSG000002	0.829826533	0	547.0328046	9.095484	RAD51D	33.01927249	143.5599903	4.347763577	2.120273	
SLC35F6	231.1349074	400.0221833	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORA12	8.80513933	38.17202053	4.335197786	2.116098	
PPEF1	15.40899383	26.66814555	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	EIF4A1P10	4.402569665	19.08601027	4.335197786	2.116098	
HRC	15.40899383	26.66814555	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF747-DT	4.402569665	19.08601027	4.335197786	2.116098	
ADGRG5	15.40899383	26.66814555	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	CHROMR	30.81798766	133.6020719	4.335197786	2.116098	
ENSG000002	15.40899383	26.66814555	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	CLCNKA	13.207709	57.2580308	4.335197786	2.116098	
FGF9	7.704496914	13.33407278	1.730687016	0.791345	PHACTR2P1	0.829826533	0	547.0328046	9.095484	FRMPD1	20.91220591	90.45109214	4.325277425	2.112793	
MORN3	7.704496914	13.33407278	1.730687016	0.791345	BNIP3P9	0.829826533	0	547.0328046	9.095484	LRATD2	222.3297681	960.9391256	4.322134341	2.111744	
RELL2	7.704496914	13.33407278	1.730687016	0.791345	PPIAL4H	0.829826533	0	547.0328046	9.095484	TMEM65	329.0920825	1421.492852	4.319438016	2.110844	
TMEM191C	7.704496914	13.33407278	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	CKS1B	24.21413316	104.5581432	4.318062617	2.110384	
ANKUB1	7.704496914	13.33407278	1.730687016	0.791345	MTCO3P22	0.829826533	0	547.0328046	9.095484	PDK3	220.1284833	948.4917276	4.308809626	2.107289	
ADPGK-AS1	7.704496914	13.33407278	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	FPR1	15.40899383	66.38612267	4.308271092	2.107109	
ENSG000002	7.704496914	13.33407278	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR4453HG	7.704496914	33.19306133	4.308271092	2.107109	
ENSG000002	7.704496914	13.33407278	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFB6	41.82441182	180.0723577	4.305436703	2.10616	
MSI1	100.1584599	173.3429461	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	SIPA1L2	975.1691808	4198.092432	4.304988831	2.106009	
ANO8	277.3618889	480.02662	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	TIMM10	128.7751627	554.3241243	4.304588809	2.105875	
NIP7	53.9314784	93.33850944	1.730687016	0.791345	ENSG000002	0.829826533	0	547.0328046	9.095484	SIX2	18.71092108	80.49317374	4.301935399	2.104986	
UTRN	17314.20585	29964.99505	1.730659512	0.791322	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNS3	259.7516102	1116.946514	4.300056168	2.104356	
CATSPERG	191.5117804	331.129474	1.72902927	0.789962	COX6CP4	0.829826533	0	547.0328046	9.095484	IPMK	165.0963624	709.501686	4.297500414	2.103498	
C9orf64	171.7002169	296.6831193	1.72791348	0.789031	CSTBP1	0.829826533	0	547.0328046	9.095484	H2AC8	626.2655349	2682.829182	4.283852508	2.098909	
COPS8	213.5246288	368.9093468	1.727713327	0.788864	LINC01235	0.829826533	0	547.0328046	9.095484	CLSTN2	24.21413316	103.7283167	4.283792279	2.098889	
SIAH1	235.5374771	406.6892197	1.726643355	0.78797	ENSG000002	0.829826533	0	547.0328046	9.095484	ELOC	149.6873686	639.7962572	4.274216743	2.09566	
TMEM254	227.8329802	393.3551469	1.726506613	0.787856	ENSG000002	0.829826533	0	547.0328046	9.095484	SMC5-DT	16.50963624	70.53525534	4.272368833	2.095036	
CAPN1	806.7708911	1392.299432	1.725768056	0.787239	PPIAP52	0.829826533	0	547.0328046	9.095484	POC1A	49.52890873	211.605766	4.272368833	2.095036	
CEP68	223.4304105	385.5769378	1.725713778	0.787193	DPRXP5	0.829826533	0	547.0328046	9.095484	LINC00861	9.905781747	42.3211532	4.272368833	2.095036	
DAGLA	155.1905807	267.7926283	1.725572693	0.787075	ENSG000002	0.829826533	0	547.0328046	9.095484	KLK14	6.603854498	28.21410213	4.272368833	2.095036	
ZDHHC8	260.8522527	450.0249562	1.725210159	0.786772	HNRNPA1P6	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	28.21410213	4.272368833	2.095036	
AARS2	347.8030036	600.033275	1.725210159	0.786772	ENSG000002	0.829826533	0	547.0328046	9.095484	NFE2	3.301927249	14.10705107	4.272368833	2.095036	
ENSG000001	26.41541799	45.55808199	1.724677687	0.786327	BUD13P1	0.829826533	0	547.0328046	9.095484	SLC13A5	3.301927249	14.10705107	4.272368833	2.095036	
MCM3AP-AS	45.12633907	77.7820912	1.723651703	0.785468	ENSG000002	0.829826533	0	547.0328046	9.095484	BEAN1	3.301927249	14.10705107	4.272368833	2.095036	
HSP90AA2P	406.1370516	700.0388208	1.723651703	0.785468	ENSG000002	0.829826533	0	547.0328046	9.095484	TPRXL	3.301927249	14.10705107	4.272368833	2.095036	
ARHGEF18	496.3897298	855.6030032	1.723651703	0.785468	ENSG000002	0.829826533	0	547.0328046	9.095484	TUBB2BP1	3.301927249	14.10705107	4.272368833	2.095036	
LEF1	334.5952946	576.6986476	1.723570705	0.7854	MICOS10P2	0.829826533	0	547.0328046	9.095484	GEMIN8P4	3.301927249	14.10705107	4.272368833	2.095036	
PLCG1	2024.081404	3486.860031	1.722687647	0.784661	DPRXP6	0.829826533	0	547.0328046	9.095484	SNHG31	3.301927249	14.10705107	4.272368833	2.095036	
CRYZL1	314.7837311	542.2522929	1.722618545	0.784603	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036	

SLC66A2	157.3918655	271.1261465	1.722618545	0.784603	NANOGNBP	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036
TAGLN2P1	18.71092108	32.22400921	1.722203257	0.784255	ENSG000002	0.829826533	0	547.0328046	9.095484	NKAPP1	3.301927249	14.10705107	4.272368833	2.095036
EXOC3	822.179885	1415.63406	1.721805758	0.783922	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF503-AS2	3.301927249	14.10705107	4.272368833	2.095036
KDM2B	388.526773	668.9259843	1.721698557	0.783833	IGHV3OR16	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036
SNRNP40	316.9850159	545.5858111	1.721172244	0.783391	ZNF30-AS1	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036
NARF	249.8458285	430.0238471	1.721156802	0.783379	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036
ADAMTS15	48.42826632	83.33795486	1.720853567	0.783124	HNRNPA3P	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	14.10705107	4.272368833	2.095036
TENM2	197.0149925	338.9076831	1.720212654	0.782587	MTND4P35	0.829826533	0	547.0328046	9.095484	CAMK2B	132.07709	563.4522162	4.266085938	2.092913
CYP2E1	267.4561072	460.0255108	1.720003763	0.782412	AK3P7	0.829826533	0	547.0328046	9.095484	SCPEP1	744.0342734	3170.767184	4.261587533	2.091391
WDR1	2382.890831	4098.005034	1.719761971	0.782209	ENSG000002	0.829826533	0	547.0328046	9.095484	POLA2	15.40899383	65.55629614	4.254417704	2.088962
ARPC5	624.06425	1072.281686	1.718223221	0.780917	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-ND6	541.5160688	2303.598457	4.253979871	2.088813
POP4	177.203429	304.4613284	1.718145806	0.780852	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	12.10706658	51.44924507	4.249521941	2.087301
AGTPBP1	1109.447556	1905.661234	1.717666802	0.78045	CTAGE15	0.829826533	0	547.0328046	9.095484	ALOX5	17.61027866	74.684388	4.240954356	2.084389
SYTL4	401.7344819	690.0382662	1.717647594	0.780434	ENSG000002	0.829826533	0	547.0328046	9.095484	GARIN5A	8.80513933	37.342194	4.240954356	2.084389
RNASEL	372.0171367	638.9243206	1.717459379	0.780276	ENSG000002	0.829826533	0	547.0328046	9.095484	POLD1	119.9700234	508.683665	4.240089738	2.084095
MRPL55	191.5117804	328.9071285	1.717425047	0.780247	ENSG000002	0.829826533	0	547.0328046	9.095484	KCTD12	346.7023611	1469.622791	4.238860058	2.083676
ING4	290.5695979	498.9165564	1.717029448	0.779915	IGHV3OR16	0.829826533	0	547.0328046	9.095484	PDK1	224.5310529	950.9812072	4.235410625	2.082502
TMUB2	209.1220591	358.9087923	1.716264625	0.779272	PATJ-DT	0.829826533	0	547.0328046	9.095484	NPIPB9	5.503212081	23.23514293	4.22210567	2.077963
SRD5A1	66.03854498	113.3396186	1.716264625	0.779272	ENSG000002	0.829826533	0	547.0328046	9.095484	RAP2C-AS1	5.503212081	23.23514293	4.22210567	2.077963
SLC10A7	220.1284833	377.7987287	1.716264625	0.779272	RPL21P136	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	23.23514293	4.22210567	2.077963
PLEK2	77.04496914	132.229555	1.716264625	0.779272	SREK1IP1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	23.23514293	4.22210567	2.077963
CENPM	11.00642416	18.88993643	1.716264625	0.779272	ENSG000002	0.829826533	0	547.0328046	9.095484	BSCL2	11.00642416	46.47028587	4.22210567	2.077963
MRPS36	11.00642416	18.88993643	1.716264625	0.779272	HMGB1P50	0.829826533	0	547.0328046	9.095484	TOMM5	11.00642416	46.47028587	4.22210567	2.077963
GINS4	11.00642416	18.88993643	1.716264625	0.779272	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000001	11.00642416	46.47028587	4.22210567	2.077963
ARMC12	11.00642416	18.88993643	1.716264625	0.779272	DIMT1P1	0.829826533	0	547.0328046	9.095484	H2BC10	46.22698148	195.0092353	4.218515444	2.076735
DIRAS2	11.00642416	18.88993643	1.716264625	0.779272	ENSG000002	0.829826533	0	547.0328046	9.095484	KIAA0040	216.826556	913.6390132	4.213685953	2.075083
FCRL6	11.00642416	18.88993643	1.716264625	0.779272	ENSG000002	0.829826533	0	547.0328046	9.095484	BCL2	129.8758051	546.025859	4.204215392	2.071837
GANAB	2404.90368	4126.895525	1.716033602	0.779078	ENSG000002	0.829826533	0	547.0328046	9.095484	RMRP	1485.867262	6241.955184	4.200883446	2.070693
U2AF1L4	80.34689639	137.7854187	1.714881656	0.778109	ENSG000002	0.829826533	0	547.0328046	9.095484	RCAN1	46.22698148	194.1794088	4.200564315	2.070583
PTBP1	1270.141348	2177.898554	1.714689909	0.777948	ENSG000002	0.829826533	0	547.0328046	9.095484	CENPQ	23.11349074	97.0897044	4.200564315	2.070583
FES	127.6745203	218.9010281	1.714523991	0.777808	MZT1P2	0.829826533	0	547.0328046	9.095484	NSG1	15.40899383	64.7264696	4.200564315	2.070583
APLP2	4974.903722	8529.361887	1.71447778	0.777769	EI24P6	0.829826533	0	547.0328046	9.095484	PSENEN	7.704496914	32.3632348	4.200564315	2.070583
GRPEL1	116.6680961	200.0110917	1.71435978	0.77767	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM30	7.704496914	32.3632348	4.200564315	2.070583
BDH2	152.9892959	262.2367646	1.714085702	0.777439	CKAP2LP1	0.829826533	0	547.0328046	9.095484	UCK2	143.0835141	600.7944102	4.198907288	2.070014
FHDC1	239.9400468	411.1339106	1.713485999	0.776934	SQSTM1P1	0.829826533	0	547.0328046	9.095484	AQP1	63.83726015	268.0339703	4.198707301	2.069945
TRIM35	119.9700234	205.5669553	1.713485999	0.776934	UNC5C-AS1	0.829826533	0	547.0328046	9.095484	GRB14	52.83083598	221.5636844	4.193832641	2.068269
NPTN	1390.111372	2381.243163	1.712987327	0.776514	NIPA2P3	0.829826533	0	547.0328046	9.095484	PSMD14	312.5824462	1309.46627	4.189186838	2.06667
FARS2	268.5567496	460.0255108	1.712954567	0.776487	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	19.81156349	82.98265334	4.188596895	2.066467
FKBP1A	946.552478	1621.201015	1.712742878	0.776309	ENSG000002	0.829826533	0	547.0328046	9.095484	PIM1	91.35332055	382.5500319	4.187587595	2.066119
CTTN	112.2655265	192.2328825	1.712305537	0.77594	KRT8P49	0.829826533	0	547.0328046	9.095484	DNAAF3	14.30835141	59.7475104	4.175708905	2.062021
CNOT8	188.2098532	322.2400921	1.712131892	0.775794	RBISP4	0.829826533	0	547.0328046	9.095484	MTHFD1L	283.9657434	1183.332637	4.167166865	2.059067
LRP2BP	25.31477557	43.33573653	1.711875201	0.775578	IGHV3OR16	0.829826533	0	547.0328046	9.095484	H4C5	1423.130644	5928.280754	4.165661655	2.058546
FBXO15	25.31477557	43.33573653	1.711875201	0.775578	H3P42	0.829826533	0	547.0328046	9.095484	RBP7	25.31477557	105.3879697	4.163101088	2.057659
GPN3	115.5674537	197.7887462	1.711457161	0.775225	SLC46A2-AS	0.829826533	0	547.0328046	9.095484	GAD1	40.7237694	169.2846128	4.156899405	2.055508
MALL	64.93790256	111.1172731	1.711131231	0.77495	MTND5P10	0.829826533	0	547.0328046	9.095484	DYNLT1	184.9079259	766.7597168	4.146710926	2.051967
CRYL1	183.8072835	314.461883	1.710823842	0.774691	ENSG000002	0.829826533	0	547.0328046	9.095484	NIPBL-DT	63.83726015	264.7146641	4.146710926	2.051967
CMPK2	53.9314784	92.22733671	1.7100836	0.774067	ENSG000002	0.829826533	0	547.0328046	9.095484	LANCL3	8.80513933	36.51236747	4.146710926	2.051967
NTPCR	230.034265	393.3551469	1.709985019	0.773984	ENSG000002	0.829826533	0	547.0328046	9.095484	CARNS1	8.80513933	36.51236747	4.146710926	2.051967
TMOD1	150.788011	257.7920737	1.70963243	0.773686	ENSG000002	0.829826533	0	547.0328046	9.095484	DIRC3-AS1	6.603854498	27.3842756	4.146710926	2.051967
AP1G2-AS1	222.3297681	380.0210742	1.709267623	0.773378	RN7SKP299	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	27.3842756	4.146710926	2.051967
OLFML3	465.5717421	795.5996757	1.708865904	0.773039	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	27.3842756	4.146710926	2.051967
NPFFR2	14.30835141	24.44580009	1.708498721	0.772729	ENSG000002	0.829826533	0	547.0328046	9.095484	MAB21L2	4.402569665	18.25618373	4.146710926	2.051967
ATF6B	28.61670282	48.89160018	1.708498721	0.772729	RN7SKP4	0.829826533	0	547.0328046	9.095484	COPS8-DT	4.402569665	18.25618373	4.146710926	2.051967
APPL2	1420.929359	2425.690073	1.707115175	0.77156	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	18.25618373	4.146710926	2.051967
NOP9	49.52890873	84.44912759	1.705047209	0.769812	MIR98	0.829826533	0	547.0328046	9.095484	LINC02616	4.402569665	18.25618373	4.146710926	2.051967
RAB40C	116.6680961	198.8999189	1.704835559	0.769633	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	18.25618373	4.146710926	2.051967
LEMD2	307.0792341	523.3623565	1.704323505	0.769199	SNORA35B	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	18.25618373	4.146710926	2.051967
DHX36	956.4582598	1630.090397	1.70429852	0.769178	ENSG000002	0.829826533	0	547.0328046	9.095484	U2.1	4.402569665	18.25618373	4.146710926	2.051967
MGST3	595.4475472	1014.500704	1.703761664	0.768724	ENSG000002	0.829826533	0	547.0328046	9.095484	PTPN5	2.201284833	9.128091867	4.146710926	2.051967
CLCA4	52.83083598	90.00499125	1.703645032	0.768625	ENSG000002	0.829826533	0	547.0328046	9.095484	CEACAM8	2.201284833	9.128091867	4.146710926	2.051967
COL9A1	17.61027866	30.00166375	1.703645032	0.768625	LINC02973	0.829826533	0	547.0328046	9.095484	SRD5A3	2.201284833	9.128091867	4.146710926	2.051967
FAM227B	17.61027866	30.00166375	1.703645032	0.768625	ENSG000002	0.829826533	0	547.0328046	9.095484	NTAN1	2.201284833	9.128091867	4.146710926	2.051967
LPAR3	186.0085684	316.6842285	1.70252495	0.767676	ENSG000002	0.829826533	0	547.0328046	9.095484	PROK2	2.201284833	9.128091867	4.146710926	2.051967
TFB1M	112.2655265	191.1217098	1.702407817	0.767577	RNU6-6P	0.829826533	0	547.0328046	9.095484	AQP7	2.201284833	9.128091867	4.146710926	2.051967
FAM120A	4776.788087	8130.450876	1.702074852	0.767294	FCHO2-DT	0.829826533	0	547.0328046	9.095484	B4GALNT2	2.201284833	9.128091867	4.146710926	2.051967
RNF167	458.9678876	781.1544302	1.701980577	0.767215	RN7SL715P	0.829826533	0	547.0328046	9.095484	DNAI2	2.201284833	9.128091867	4.146710926	2.051967
ANXA1	730.8265644	1243.402286	1.701364382	0.766692	ENSG000002	0.829826533	0	547.0328046	9.095484	LCN15	2.201284833	9.128091867	4.146710926	2.051967
HDAC1	849.6959454	1445.635724	1.701356505	0.766685	FGF14-AS2	0.829826533	0	547.0328046	9.095484	C3orf22	2.201284833	9.128091867	4.146710926	2.051967
CIAO1	286.1670282	486.6936564	1.700732818	0.766157	ENSG000002	0.829826533	0	547.0328046	9.095484	RPH3AL	2.201284833	9.128091867	4.146710926	2.051967
PRR12	1736.813733	2953.49712	1.700526121	0.765981	ENSG000002	0.829826533	0	547.0328046	9.095484	OR2L3	2.201284833	9.128091867	4.146710926	2.051967
RNF112	20.91220591	35.55752741	1.700324086	0.76581	PDE7A-DT	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
TMPRSS3	20.91220591	35.55752741	1.700324086	0.76581	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL7P7	2.201284833	9.128091867	4.146710926	2.051967
ARPP21	20.91220591	35.55752741	1.700324086	0.76581	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC00240	2.201284833	9.128091867	4.146710926	2.051967
ZNF426	400.6338395	681.1488844	1.700178111	0.765686	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
UBE3B	1002.685241	1704.53897	1.699974129	0.765513	LINC00551	0.829826533	0	547.0328046	9.095484	RPSAP9	2.201284833	9.128091867	4.146710926	2.051967
ZNF219	239.9400468	407.8003924	1.699592869	0.765189	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
DNASE1	239.9400468	407.8003924	1.699592869	0.765189	SNORD114-	0.829826533	0	547.0328046	9.095484	LINC00964	2.201284833	9.128091867	4.146710926	2.051967
WDR53	132.07709	224.4568918	1.699438501	0.765058	ENSG000002	0.829826533	0	547.0328046	9.095484	RHPN1-AS1	2.201284833	9.128091867	4.146710926	2.051967
OR51E2	1144.668113	1944.55228	1.698791342	0.764509	ENSG000002	0.829826533	0	547.0328046	9.095484	HCAR3	2.201284833	9.128091867	4.146710926	2.051967
HNRNPA0	509.5974387	865.6035578	1.698602646	0.764348	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
GRINA	2162.762348	3673.53705	1.698539395	0.764295	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
GRID1	141.9828717	241.1244827	1.698264585	0.764061	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
MAFG	72.64239948	123.3401732	1.697908853	0.763759	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	9.128091867	4.146710926	2.051967
CC2D1B	266.3554647	452.2473017	1.697908853	0.763759	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM86EP	2.201284833	9.128091867	4.146710926	2.051967
SEC31B	169.4989321	287.7937374	1.697908853	0.763759	CUX2P1	0.829826533	0	547.0328046	9.095484	YPEL1	58.33404806	241.4795212	4.139598215	2.049491
NAIP	24.21413316	41.11339106	1.697908853	0.763759	ENSG000002	0.829826533	0	547.0328046	9.095484	EPOR	114.4668113	473.001124	4.132211937	2.046914
CNNM4	494.1884449	838.9354122	1.697602242	0.763498	ENSG000002	0.829826533	0	547.0328046	9.095484	FSCN1	84.74946605	350.1867971	4.132023638	2.046849
PHTF1	272.9593192	463.359029	1.697538777	0.763445	FAM193B-D	0.829826533	0	547.0328046	9.095484	DNAJC12	23.11349074	95.43005134	4.128759797	2.045708
KDELR1	1101.743059	1870.103707	1.697404574	0.76333	ENSG000002	0.829826533	0	547.0328046	9.095484	MXD1	44.02569665	181.7320108	4.12786224	2.045395
SLC20A2	541.5160688	918.9398489	1.696976141	0.762966	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC29A4	41.82441182	172.6039189	4.126870204	2.045048
KLHL24	967.4646839	1641.202124	1.696394868	0.762472	RNU6-88P	0.829826533	0	547.0328046	9.095484	SLBP	204.7194894	843.9335844	4.122390041	2.043481
DOK1	55.03212081	93.33850944	1.696073276	0.762199	ENSG000002	0.829826533	0	547.0328046	9.095484	CHD4	30.81798766	126.9634596	4.119784232	2.042569
ADAMTS14	27.51606041	46.66925472	1.696073276	0.762199	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-TI	30.81798766	126.9634596	4.119784232	2.042569
KCNN2	82.54818122	140.0077642	1.696073276	0.762199	LINC02538	0.829826533	0	547.0328046	9.095484	LSM4	180.5053563	742.6947474	4.114530243	2.040728
PROSER3	116.6680961	197.7887462	1.695311338	0.76155	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM258	72.64239948	298.737552	4.112440588	2.039995
LZIC	264.1541799	447.8026108	1.69523197	0.761483	ENSG000002	0.829826533	0	547.0328046	9.095484	BYSL	39.62312699	162.6460005	4.104824957	2.037321
CCHCR1	30.81798766	52.22511838	1.694631037	0.760971	JTB-DT	0.829826533	0	547.0328046	9.095484	LINC02987	19.81156349	81.32300027	4.104824957	2.037321
VPS13B	8314.252813	14088.55906	1.694506936	0.760866	ENSG000002	0.829826533	0	547.0328046	9.095484	COLEC11	9.905781747	40.66150013	4.104824957	2.037321
PRKCZ	386.3254881	654.4807388	1.694117419	0.760534	ENSG000002	0.829826533	0	547.0328046	9.095484	ZRANB2-DT	9.905781747	40.66150013	4.104824957	2.037321
LIG1	228.9336226	387.7992833	1.693937653	0.760381	ENSG000002	0.829826533	0	547.0328046	9.095484	MST1R	27.51606041	112.8564085	4.10147408	2.036143
SESTD1	700.0085768	1185.621304	1.693723968	0.760199	ENSG000002	0.829826533	0	547.0328046	9.095484	METTL9	27.51606041	112.8564085	4.10147408	2.036143

SLC24A3	201.4175622	341.1300286	1.693645901	0.760132	ENSG000002	0.829826533	0	547.0328046	9.095484	CDH22	42.92505424	175.9232251	4.098380962	2.035054
HS1BP3	272.9593192	462.2478563	1.693467941	0.759981	ENSG000002	0.829826533	0	547.0328046	9.095484	SCNN1A	1083.032138	4433.763168	4.093842661	2.033456
CCN2	897.0235693	1518.973124	1.693348063	0.759879	ENSG000002	0.829826533	0	547.0328046	9.095484	ACKR3	140.8822293	576.7294407	4.093698997	2.033405
MDH1	320.2869431	542.2522929	1.693020289	0.759599	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	31.53340827	4.092857538	2.033108
TMTC4	336.7965794	570.0316112	1.692510097	0.759164	ENSG000002	0.829826533	0	547.0328046	9.095484	MCM7	469.9743118	1922.708078	4.091091853	2.032486
CHMP6	78.14561156	132.229555	1.692091883	0.758808	ENSG000002	0.829826533	0	547.0328046	9.095484	ITGB3BP	124.372593	508.683665	4.089998066	2.0321
BST1	40.7237694	68.89270935	1.691707579	0.75848	ENSG000002	0.829826533	0	547.0328046	9.095484	RIMS3	28.61670282	117.0055412	4.088714969	2.031647
ABCF3	457.8672452	774.4873938	1.691510808	0.758312	ENSG000002	0.829826533	0	547.0328046	9.095484	DNM1	243.241974	993.3023604	4.083597679	2.029841
THNSL2	210.2227015	355.5752741	1.691421866	0.758237	ENSG000002	0.829826533	0	547.0328046	9.095484	HOXB2	124.372593	507.8538384	4.083325964	2.029745
UBTD1	47.3276239	80.00443666	1.690438481	0.757398	TRIM8-DT	0.829826533	0	547.0328046	9.095484	MT1E	180.5053563	736.8859616	4.082349559	2.0294
TTC31	97.95717505	165.564737	1.69017468	0.757172	ENSG000002	0.829826533	0	547.0328046	9.095484	SLCO4C1	11.00642416	44.8106328	4.071316182	2.025495
POFUT2	253.1477557	427.8015016	1.689928083	0.756962	ENSG000002	0.829826533	0	547.0328046	9.095484	ACTRT3	11.00642416	44.8106328	4.071316182	2.025495
CABLES1	155.1905807	262.2367646	1.68977243	0.756829	ENSG000002	0.829826533	0	547.0328046	9.095484	UBR7	5.503212081	22.4053164	4.071316182	2.025495
SLC4A2	468.8736693	792.2661575	1.689722007	0.756786	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01547	5.503212081	22.4053164	4.071316182	2.025495
ATP5F1B	1929.426156	3260.180794	1.689715247	0.75678	ARL2-SNX1	0.829826533	0	547.0328046	9.095484	SMG1P4	5.503212081	22.4053164	4.071316182	2.025495
LTBP2	1654.265552	2794.59942	1.689329393	0.756451	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF674-AS1	5.503212081	22.4053164	4.071316182	2.025495
FLYWCH1	390.7280578	660.0366025	1.689248032	0.756381	ENSG000002	0.829826533	0	547.0328046	9.095484	ILDR2	28.61670282	116.1757147	4.059716991	2.021379
WDR13	797.9657518	1347.852523	1.689110742	0.756264	ENSG000002	0.829826533	0	547.0328046	9.095484	PRKDC	9835.340632	39899.71938	4.056770464	2.020332
CD2BP2	353.3062156	596.6997568	1.688902517	0.756086	PPM1B-DT	0.829826533	0	547.0328046	9.095484	SFXN1	394.029985	1595.756424	4.049834998	2.017863
COPRS	127.6745203	215.5675099	1.688414489	0.755669	ENSG000002	0.829826533	0	547.0328046	9.095484	H1-10	246.5439013	998.2813196	4.049101659	2.017602
CAPS2	268.5567496	453.3584744	1.688129139	0.755425	ENSG000002	0.829826533	0	547.0328046	9.095484	ZDHHC23	111.164884	449.7659811	4.045935773	2.016473
GFRA1	134.2783748	226.6792372	1.688129139	0.755425	PACERR	0.829826533	0	547.0328046	9.095484	MME	1057.717362	4279.415433	4.045896934	2.01646
EPB41L5	624.06425	1053.391749	1.687954004	0.755276	ENSG000002	0.829826533	0	547.0328046	9.095484	AJAP1	27.51606041	111.1967555	4.041158284	2.014769
DIS3L2	730.8265644	1233.401732	1.687680487	0.755042	ENSG000002	0.829826533	0	547.0328046	9.095484	CCP110	994.9807443	4019.679728	4.039957306	2.01434
RNF144A	311.4818038	525.584702	1.687368878	0.754775	ENSG000002	0.829826533	0	547.0328046	9.095484	CPLX1	15.40899383	62.23699	4.039004149	2.014
TUBB4B	2323.456141	3920.217397	1.687235377	0.754661	ENSG000002	0.829826533	0	547.0328046	9.095484	B3GNT2	124.372593	502.0450527	4.036621256	2.013148
ZNRF1	80.34689639	135.5630732	1.687222274	0.75465	ENSG000002	0.829826533	0	547.0328046	9.095484	DIPK2A	124.372593	502.0450527	4.036621256	2.013148
GNB5	183.8072835	310.0171921	1.686642586	0.754154	ENSG000002	0.829826533	0	547.0328046	9.095484	MXD3	84.74946605	341.8885317	4.034108386	2.01225
PEPD	558.0257051	941.1633035	1.686594892	0.754113	ENSG000002	0.829826533	0	547.0328046	9.095484	LZTS1	47.3276239	190.8601027	4.032742127	2.011761
RFK	93.55460539	157.7865279	1.686571465	0.754093	TMEM271	0.829826533	0	547.0328046	9.095484	FUT1	50.62955115	204.1373272	4.031979794	2.011488
ACVR2B	139.7815869	235.5686191	1.68526216	0.752973	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRC3	36.32119974	146.0494699	4.021053019	2.007573
ELAC2	735.2291341	1238.957596	1.685131258	0.752861	ENSG000002	0.829826533	0	547.0328046	9.095484	ENKUR	6.603854498	26.55444907	4.021053019	2.007573
C19orf47	159.5931504	268.903801	1.684933222	0.752691	ENSG000002	0.829826533	0	547.0328046	9.095484	MANBAL	3.301927249	13.27722453	4.021053019	2.007573
PDE6D	172.8008594	291.1272556	1.684755832	0.75254	ENSG000002	0.829826533	0	547.0328046	9.095484	C2orf50	3.301927249	13.27722453	4.021053019	2.007573
NCEH1	199.2162773	335.5741649	1.684471617	0.752296	ENSG000002	0.829826533	0	547.0328046	9.095484	CACNG2	3.301927249	13.27722453	4.021053019	2.007573
LAMC3	145.284799	244.4580009	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM167B	3.301927249	13.27722453	4.021053019	2.007573
ATP8B3	29.71734524	50.00277291	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF232-AS1	3.301927249	13.27722453	4.021053019	2.007573
PARD6A	23.11349074	38.8910456	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	AMACR	3.301927249	13.27722453	4.021053019	2.007573
NBPF26	23.11349074	38.8910456	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	13.27722453	4.021053019	2.007573
CDH17	19.81156349	33.33518194	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF233	38.52248457	154.3477352	4.006692116	2.002412
LRRIQ3	19.81156349	33.33518194	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	CFAP54	125.4732355	502.0450527	4.001212297	2.000437
RNASEK	19.81156349	33.33518194	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	SNRNP25	93.55460539	374.2517665	4.000356423	2.000129
AKAP4	9.905781747	16.66759097	1.682612377	0.750703	PMS2P10	0.829826533	0	547.0328046	9.095484	PIP5KL1	11.00642416	43.98080627	3.995921438	1.998528
IL31RA	9.905781747	16.66759097	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	C6orf226	11.00642416	43.98080627	3.995921438	1.998528
IFI27L1	9.905781747	16.66759097	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF850	274.0599617	1094.541198	3.993801907	1.997763
OR5D14	9.905781747	16.66759097	1.682612377	0.750703	BLVRBP1	0.829826533	0	547.0328046	9.095484	MFSD13A	18.71092108	74.684388	3.991486453	1.996926
ARHGAP27P	9.905781747	16.66759097	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	30.70358173	3.98515076	1.994634
SPAG5-AS1	9.905781747	16.66759097	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	PLCH1	220.1284833	877.1266458	3.984612226	1.994439
TXNDC12	42.92505424	72.22622754	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	OSBPL3	270.7580344	1077.944667	3.981210268	1.993207
ZNF165	42.92505424	72.22622754	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	TLCD4	47.3276239	188.3706231	3.980141143	1.99282
SEMG1	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	WHSC1L2P	12.10706658	48.12993894	3.975359235	1.991085
CNDP1	6.603854498	11.11172731	1.682612377	0.750703	LINC02970	0.829826533	0	547.0328046	9.095484	CEP250	960.8608294	3819.691533	3.975280723	1.991057
PLPP7	6.603854498	11.11172731	1.682612377	0.750703	ENPP7P7	0.829826533	0	547.0328046	9.095484	ILF3-DT	16.50963624	65.55629614	3.970789857	1.989426
CRYBA2	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	RDH14	70.44111464	279.6515417	3.970004495	1.989141
ZPLD1	6.603854498	11.11172731	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	EML6	102.3597447	405.7851748	3.964304287	1.987068
GAP43	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	SPTSSA	155.1905807	614.9014612	3.962234425	1.986314
OTOP3	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	CEP85	169.4989321	671.3296655	3.960671947	1.985745
SLC23A3	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	SNHG6	39.62312699	156.8372148	3.958224066	1.984853
CAP1P2	6.603854498	11.11172731	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	MPP2	44.02569665	174.263572	3.958224066	1.984853
TMEM229A	6.603854498	11.11172731	1.682612377	0.750703	RN7SL733P	0.829826533	0	547.0328046	9.095484	CA6	4.402569665	17.4263572	3.958224066	1.984853
ROPN1	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	CEP20	4.402569665	17.4263572	3.958224066	1.984853
KCNA7	3.301927249	5.555863657	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	CHAD	4.402569665	17.4263572	3.958224066	1.984853
SLC46A2	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	NEMP2-DT	4.402569665	17.4263572	3.958224066	1.984853
KCNA10	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	L3MBTL4	156.2912231	618.2207674	3.955569321	1.983885
LIX1	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ARHGAP19	14.30835141	56.42820427	3.943725077	1.979559
ALAS2	3.301927249	5.555863657	1.682612377	0.750703	Y_RNA.129	0.829826533	0	547.0328046	9.095484	UGT2B11	14.30835141	56.42820427	3.943725077	1.979559
PRR35	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	C5orf34	85.85010847	338.5692256	3.943725077	1.979559
NKX6-3	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ESYT3	77.04496914	303.7165112	3.942068049	1.978953
RPS9	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	MPHOSPH9	808.972176	3185.704062	3.937964934	1.97745
OR5B2	3.301927249	5.555863657	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	KCNQ2	9.905781747	39.00184707	3.937281081	1.9772
H2AC25	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ARPC5L	114.4668113	450.5958076	3.936475582	1.976905
ADRB3	3.301927249	5.555863657	1.682612377	0.750703	MIR7702	0.829826533	0	547.0328046	9.095484	TOMM40	70.44111464	277.1620621	3.934663208	1.97624
KRT35	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	NAB1	280.6638162	1102.839463	3.929396664	1.974308
CCT8L2	3.301927249	5.555863657	1.682612377	0.750703	FAM74A3	0.829826533	0	547.0328046	9.095484	GPR153	68.23982981	268.0339703	3.927822959	1.97373
TRIM51BP	3.301927249	5.555863657	1.682612377	0.750703	ADAMTS7P	0.829826533	0	547.0328046	9.095484	ECI1	172.8008594	677.9682778	3.923408022	1.972107
GRXCR2	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	FADS2	345.6017187	1355.936556	3.923408022	1.972107
TRAV20	3.301927249	5.555863657	1.682612377	0.750703	TPTE	0.829826533	0	547.0328046	9.095484	MANEAL	201.4175622	789.9948598	3.922174666	1.971654
TRAV25	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	IPO5P1	11.00642416	43.15097974	3.920526694	1.971047
TRAJ39	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	MAP7D2	16.50963624	64.7264696	3.920526694	1.971047
ENSG000002	3.301927249	5.555863657	1.682612377	0.750703	Y_RNA.130	0.829826533	0	547.0328046	9.095484	YWHAZ	1757.725939	6889.21988	3.919393648	1.97063
LACTBL1	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	NAT14	17.61027866	68.87560227	3.911102351	1.967575
HNRNPA1P4	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	HAGLR	29.71734524	116.1757147	3.909357102	1.966931
OR4E2	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	CEP43	71.54175706	279.6515417	3.908927502	1.966773
RPS4XP16	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	ATP2A3	408.3383364	1594.096771	3.903862626	1.964902
SMARCE1P5	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	LZIC	264.1541799	1030.644554	3.901678008	1.964095
MTHFD1P1	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	E2F3	147.4860838	575.0697876	3.899146095	1.963158
ELF2P3	3.301927249	5.555863657	1.682612377	0.750703	MIR7974	0.829826533	0	547.0328046	9.095484	PGD	681.2976557	2656.274733	3.898846137	1.963047
KRT18P15	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	COX17	160.6937928	626.5190327	3.898837795	1.963044
CSP2	3.301927249	5.555863657	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	SOX6	130.9764475	510.343318	3.896451061	1.962161
YWHAQP6	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	NCAPD2	664.7880194	2589.888611	3.895811198	1.961924
FER1L6-AS2	3.301927249	5.555863657	1.682612377	0.750703	TBC1D3B	0.829826533	0	547.0328046	9.095484	OXTR	13.207709	51.44924507	3.895395113	1.96177
ENSG000002	3.301927249	5.555863657	1.682612377	0.750703	MIR6078	0.829826533	0	547.0328046	9.095484	KDM4D	13.207709	51.44924507	3.895395113	1.96177
ENSG000002	3.301927249	5.555863657	1.682612377	0.750703	MIR6772	0.829826533	0	547.0328046	9.095484	LY6E	6.603854498	25.72462253	3.895395113	1.96177
MIR3942	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	NIPA1	6.603854498	25.72462253	3.895395113	1.96177
ENSG000002	3.301927249	5.555863657	1.682612377	0.750703	MIR7152	0.829826533	0	547.0328046	9.095484	SMIM1	6.603854498	25.72462253	3.895395113	1.96177
ENSG000002	3.301927249	5.555863657	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	UBE2MP1	6.603854498	25.72462253	3.895395113	1.96177
GFI1	26.41541799	44.44690926	1.682612377	0.750703	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	TRIP13	53.9314784	209.9461129	3.892830665	1.96082
AQP7P1	26.41541799	44.44690926	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	CORO1C	1222.813725	4755.735863	3.889174424	1.959464
C10orf90	13.207709	22.22345463	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	RIMS4	20.91220591	81.32300027	3.888781538	1.959318
POLR2MP1	13.207709	22.22345463	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	SOX4	540.4154264	2101.120782	3.887973362	1.959018
HOXB7	13.207709	22.22345463	1.682612377	0.750703	ENSG000002	0.829826533	0	547.0328046	9.095484	MASTL	267.4561072	1039.772646	3.887638452	1.958894

TVP23CP2	13.207709	22.22345463	1.682612377	0.750703	ENSG00000	0.829826533	0	547.0328046	9.095484	HAUS1	70.44111464	273.842756	3.887541493	1.958858	
NAA30	213.5246288	358.9087923	1.680877725	0.749215	RNU11	0.829826533	0	547.0328046	9.095484	PFKFB2	358.8094277	1394.108576	3.885373316	1.958053	
CDC42BPB	3769.700276	6334.795742	1.680450773	0.748848	ENSG00000	0.829826533	0	547.0328046	9.095484	DAPP1	29.71734524	115.3458881	3.881433123	1.956589	
RPL8	4991.413358	8387.131777	1.680312003	0.748729	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	29.71734524	115.3458881	3.881433123	1.956589	
DYNC1H1	12350.30855	20745.5949	1.679763287	0.748258	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC00630	15.40899383	59.7475104	3.877443983	1.955106	
FOXP4	935.5460539	1571.198242	1.679445107	0.747985	ENSG00000	0.829826533	0	547.0328046	9.095484	OTOF	7.704496914	29.8737552	3.877443983	1.955106	
NECTIN4	192.6124229	323.3512648	1.678766406	0.747401	ENSG00000	0.829826533	0	547.0328046	9.095484	GPR4	16.50963624	63.89664307	3.870263531	1.952432	
PREX1	681.2976557	1143.396741	1.678263137	0.746969	ENSG00000	0.829826533	0	547.0328046	9.095484	KCTD8	16.50963624	63.89664307	3.870263531	1.952432	
BROX	611.9571835	1026.723604	1.677770327	0.746545	ENSG00000	0.829826533	0	547.0328046	9.095484	PIGX	190.411138	736.8859616	3.869972993	1.952323	
PARD3	2004.26984	3362.408685	1.677622752	0.746418	ENSG00000	0.829826533	0	547.0328046	9.095484	CHN1	322.488228	1247.22928	3.867518785	1.951408	
SEC61A2	217.9271984	365.5758286	1.677513552	0.746324	ENSG00000	0.829826533	0	547.0328046	9.095484	SPIN4	89.15203572	344.3780113	3.862817137	1.949653	
NUDT8	71.54175706	120.006655	1.677435108	0.746257	MIR6124	0.829826533	0	547.0328046	9.095484	ZNRF1	80.34689639	310.3551235	3.86268963	1.949606	
KMT2B	2109.931512	3539.08515	1.677345985	0.74618	U1.1	0.829826533	0	547.0328046	9.095484	IVNS1ABP	1046.710938	4042.914871	3.862494146	1.949533	
NSMCE1	359.9100701	603.3667932	1.676437653	0.745399	ENSG00000	0.829826533	0	547.0328046	9.095484	UBE2V2	236.6381195	912.8091867	3.857405513	1.947631	
MAN2C1	538.2141416	902.2722579	1.676418712	0.745383	ENSG00000	0.829826533	0	547.0328046	9.095484	LRP8	90.25267814	347.6973175	3.852487535	1.94579	
PEX7	236.6381195	396.6886651	1.676351494	0.745325	ENSG00000	0.829826533	0	547.0328046	9.095484	FGD5-AS1	151.8886534	585.027706	3.851688014	1.945491	
MYDGF	175.0021442	293.3496011	1.676262896	0.745248	ELOA3CP	0.829826533	0	547.0328046	9.095484	PHF19	122.1713082	470.5116444	3.851245037	1.945325	
TFAP4	175.0021442	293.3496011	1.676262896	0.745248	ENSG00000	0.829826533	0	547.0328046	9.095484	RMI1	267.4561072	1028.984901	3.847303815	1.943848	
C17orf58	55.03212081	92.22733671	1.675881928	0.744921	ENSG00000	0.829826533	0	547.0328046	9.095484	SCAMP5	37.42184215	143.5599903	3.83626198	1.939701	
FSTL1	2852.865143	4779.153918	1.675211999	0.744344	ENSG00000	0.829826533	0	547.0328046	9.095484	DBF4	129.8758051	497.89592	3.833631057	1.938712	
SARAF	1904.11138	3189.065739	1.674831511	0.744016	MIR6796	0.829826533	0	547.0328046	9.095484	DTD1	14.30835141	54.7685512	3.827733163	1.93649	
HMGCR	464.4710997	777.820912	1.674637911	0.743849	MIR6839	0.829826533	0	547.0328046	9.095484	CERS6	548.1199233	2097.801476	3.827267332	1.936315	
DNA2	361.0107125	604.4779659	1.674404512	0.743648	ENSG00000	0.829826533	0	547.0328046	9.095484	RAD17	16.50963624	63.06681654	3.820000368	1.933573	
PMPCA	354.406858	593.3662386	1.67425157	0.743516	MIR6724-4	0.829826533	0	547.0328046	9.095484	NEBL	750.6381279	2865.39102	3.817273481	1.932543	
NUDCD2	132.07709	221.1233736	1.674199315	0.743471	ENSG00000	0.829826533	0	547.0328046	9.095484	NRG1	62.73661773	238.9900416	3.80941865	1.929571	
STRIP2	41.82441182	70.00388208	1.673756522	0.74309	ENSG00000	0.829826533	0	547.0328046	9.095484	GPC6	170.5995745	649.7541756	3.808650622	1.92928	
OVGP1	77.04496914	128.8960368	1.672997449	0.742435	ENSG00000	0.829826533	0	547.0328046	9.095484	ATP5PO	278.4625313	1060.51831	3.808477588	1.929214	
CAB39L	635.0706742	1062.281131	1.672697503	0.742177	MIR8064	0.829826533	0	547.0328046	9.095484	SESTD1	700.0085768	2665.402825	3.807671668	1.928909	
STUB1	522.8051477	874.4929396	1.67269382	0.742173	EIF5P2	0.829826533	0	547.0328046	9.095484	POLA1	790.2612549	3005.631704	3.80333932	1.927267	
TM7SF3	910.2312783	1522.306642	1.672439388	0.741954	LINC03082	0.829826533	0	547.0328046	9.095484	SNHG29	125.4732355	477.1502567	3.802805076	1.927064	
EMP1	246.5439013	412.2450834	1.67209605	0.741658	ENSG00000	0.829826533	0	547.0328046	9.095484	TOPBP1	1287.751627	4888.508108	3.796157586	1.92454	
BLMH	342.2997915	572.2539567	1.671791719	0.741395	ENSG00000	0.829826533	0	547.0328046	9.095484	NUDT15	33.01927249	125.3038065	3.794868787	1.92405	
P4HA1	1252.53107	2093.449426	1.671375247	0.741036	ENSG00000	0.829826533	0	547.0328046	9.095484	DUSP4	105.661672	400.8062156	3.793298063	1.923453	
KLC4	305.9785917	511.1394565	1.670507252	0.740286	MIR7156	0.829826533	0	547.0328046	9.095484	CTPS1	380.822276	1443.898168	3.791527594	1.922779	
RPL4P4	60.5353329	101.1167186	1.670375196	0.740172	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	40.7237694	154.3477352	3.790114164	1.922241	
PCYT2	143.0835141	238.9021373	1.669669205	0.739562	THBS1-IT1	0.829826533	0	547.0328046	9.095484	DNASE2	127.6745203	483.788869	3.789235846	1.921907	
RUNX3	136.4796596	227.7904099	1.669042922	0.739021	ENSG00000	0.829826533	0	547.0328046	9.095484	CADPS	42.92505424	162.6460005	3.789069191	1.921843	
GGCX	434.7537544	725.5957936	1.668981087	0.738968	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	MTND2P28	424.8479727	1608.203822	3.785363059	1.920432	
GLE1	374.2184215	624.4790751	1.668755569	0.738773	ENSG00000	0.829826533	0	547.0328046	9.095484	LMNB2	159.5931504	604.1137163	3.785336118	1.920421	
RPUSD4	104.5610295	174.4541188	1.66844301	0.738502	UBE2NL	0.829826533	0	547.0328046	9.095484	DIRAS1	56.13276323	212.4355925	3.784520489	1.920111	
XPNPEP1	646.0770984	1077.837549	1.668280074	0.738362	MIR6835	0.829826533	0	547.0328046	9.095484	MAP2	690.102795	2607.314968	3.778154482	1.917682	
FXR2	436.9550393	728.9293118	1.668202095	0.738294	ENSG00000	0.829826533	0	547.0328046	9.095484	CRIPT	122.1713082	461.3835526	3.776529525	1.917061	
UBE2O	538.2141416	897.827567	1.668160492	0.738258	ENSG00000	0.829826533	0	547.0328046	9.095484	POLD3	249.8458285	943.5127684	3.776379914	1.917004	
ENSG000002	50.62955115	84.44912759	1.667980965	0.738103	ENSG00000	0.829826533	0	547.0328046	9.095484	DYNLT3	126.5738779	477.9800832	3.77629327	1.916971	
PSD4	806.7708911	1345.630178	1.667921082	0.738051	ENSG00000	0.829826533	0	547.0328046	9.095484	H2AC15	148.5867262	560.9627366	3.775322002	1.9166	
FAM229A	141.9828717	236.6797918	1.666960169	0.73722	MIR6895	0.829826533	0	547.0328046	9.095484	TMCC2	25.31477557	95.43005134	3.769737206	1.914464	
GPX1	163.99572	273.3484919	1.666802596	0.737083	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	23.11349074	87.131786	3.769737206	1.914464	
H6PD	514.0000084	856.7141759	1.66675907	0.737046	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	KLK1	18.71092108	70.53525534	3.769737206	1.914464	
ANKRD27	554.7237778	924.4957126	1.666587497	0.736897	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	37.342194	3.769737206	1.914464	
UNC45A	377.5203488	628.923766	1.665933421	0.736331	ENSG00000	0.829826533	0	547.0328046	9.095484	SCGN	6.603854498	24.894796	3.769737206	1.914464	
BFSP1	44.02569665	73.33740027	1.665786253	0.736203	CSPG4P10	0.829826533	0	547.0328046	9.095484	ABT1	6.603854498	24.894796	3.769737206	1.914464	
CILP	44.02569665	73.33740027	1.665786253	0.736203	MIR7111	0.829826533	0	547.0328046	9.095484	RGS18	6.603854498	24.894796	3.769737206	1.914464	
NAT8L	22.01284833	36.66870014	1.665786253	0.736203	VAMP1-AS1	0.829826533	0	547.0328046	9.095484	KLHDC8A	3.301927249	12.447398	3.769737206	1.914464	
NPEPL1	22.01284833	36.66870014	1.665786253	0.736203	Y_RNA.132	0.829826533	0	547.0328046	9.095484	C2orf74-DT	3.301927249	12.447398	3.769737206	1.914464	
FURIN	701.1092192	1167.842541	1.665707009	0.736135	ENSG00000	0.829826533	0	547.0328046	9.095484	H2BC12L	3.301927249	12.447398	3.769737206	1.914464	
TCF25	983.9743202	1638.979779	1.665673326	0.736105	MIR8073	0.829826533	0	547.0328046	9.095484	ELOA-AS1	3.301927249	12.447398	3.769737206	1.914464	
IL17RD	238.8394043	397.7998379	1.665553634	0.736002	ENSG00000	0.829826533	0	547.0328046	9.095484	OVCH1-AS1	3.301927249	12.447398	3.769737206	1.914464	
SLC30A7	630.6681045	1050.058231	1.664993399	0.735516	LINC02227	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	12.447398	3.769737206	1.914464	
INTU	313.6830886	522.2511838	1.664900668	0.735436	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	SMIM47	3.301927249	12.447398	3.769737206	1.914464	
MVP	501.8929418	835.601894	1.664900668	0.735436	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	12.447398	3.769737206	1.914464	
DAPK3	269.657392	448.9137835	1.664756082	0.735311	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	12.447398	3.769737206	1.914464	
GAD1	40.7237694	67.78153662	1.664421973	0.735021	LINC03079	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	12.447398	3.769737206	1.914464	
GJD3-AS1	40.7237694	67.78153662	1.664421973	0.735021	ENSG00000	0.829826533	0	547.0328046	9.095484	LIN52	84.74946605	319.4832153	3.769737206	1.914464	
PLA2G15	59.43469048	98.8943731	1.663916684	0.734583	RN7SL769P	0.829826533	0	547.0328046	9.095484	PLCD4	15.40899383	58.08785734	3.769737206	1.914464	
PDE2A	78.14561156	130.0072096	1.663653364	0.734355	ENSG00000	0.829826533	0	547.0328046	9.095484	JTB	7.704496914	29.04392867	3.769737206	1.914464	
YIPF3	756.14134	1257.847532	1.663508481	0.734229	ENSG00000	0.829826533	0	547.0328046	9.095484	GDF9	7.704496914	29.04392867	3.769737206	1.914464	
NAGLU	193.7130653	322.2400921	1.663491782	0.734215	TEX28P3	0.829826533	0	547.0328046	9.095484	MIR4435-2H	28.61670282	107.8774493	3.769737206	1.914464	
ENSG000002	18.71092108	31.11283648	1.662816937	0.733629	ENSG00000	0.829826533	0	547.0328046	9.095484	RHEBL1	5.503212081	20.74566333	3.769737206	1.914464	
PSTK	56.13276323	93.33850944	1.662816937	0.733629	ENSG00000	0.829826533	0	547.0328046	9.095484	RNASE2	5.503212081	20.74566333	3.769737206	1.914464	
USP45	449.0621058	746.7080755	1.662816937	0.733629	ENSG00000	0.829826533	0	547.0328046	9.095484	PPM1N	5.503212081	20.74566333	3.769737206	1.914464	
RASSF2	461.1691724	766.7091847	1.66253347	0.733383	ENSG00000	0.829826533	0	547.0328046	9.095484	ATP5MC2P4	5.503212081	20.74566333	3.769737206	1.914464	
C1orf174	255.3490406	424.4679834	1.662304986	0.733185	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	20.74566333	3.769737206	1.914464	
FBXO8	214.6252712	356.6864468	1.661903302	0.732836	ENSG00000	0.829826533	0	547.0328046	9.095484	A1BG-AS1	5.503212081	20.74566333	3.769737206	1.914464	
DUSP4	105.661672	175.5652916	1.661579722	0.732556	ENSG00000	0.829826533	0	547.0328046	9.095484	SRGAP2D	12.10706658	45.64045934	3.769737206	1.914464	
LNX1	52.83083598	87.78264578	1.661579722	0.732556	ENSG00000	0.829826533	0	547.0328046	9.095484	MEG8	8.80513933	33.19306133	3.769737206	1.914464	
METTL4	173.9015018	288.9049102	1.661313486	0.732324	ENSG00000	0.829826533	0	547.0328046	9.095484	ATP2A1-AS1	8.80513933	33.19306133	3.769737206	1.914464	
YPEL3	242.1413316	402.2445288	1.66119731	0.732223	ENSG00000	0.829826533	0	547.0328046	9.095484	NME2P1	4.402569665	16.59653067	3.769737206	1.914464	
DARS2	337.8972218	561.1422294	1.660689089	0.731782	ENSG00000	0.829826533	0	547.0328046	9.095484	CA4	4.402569665	16.59653067	3.769737206	1.914464	
MYH3	423.7473303	703.372339	1.659886184	0.731084	KDM5DP1	0.829826533	0	547.0328046	9.095484	ASCL2	4.402569665	16.59653067	3.769737206	1.914464	
SON	10223.8674	16967.60761	1.659607557	0.730842	ENSG00000	0.829826533	0	547.0328046	9.095484	EMSLR	4.402569665	16.59653067	3.769737206	1.914464	
TRO	80.34689639	133.3407278	1.659562892	0.730803	SAGE3P	0.829826533	0	547.0328046	9.095484	YTHDF2P1	4.402569665	16.59653067	3.769737206	1.914464	
L2HGDH	188.2098532	312.2395375	1.658996765	0.730311	ENSG00000	0.829826533	0	547.0328046	9.095484	SLC13A2	2.201284833	8.298265334	3.769737206	1.914464	
OGG1	323.5888704	536.6964293	1.658575057	0.729944	MIR8078	0.829826533	0	547.0328046	9.095484	FEZF2	2.201284833	8.298265334	3.769737206	1.914464	
SLC4A8	77.04496914	127.7848641	1.658575057	0.729944	LINC01796	0.829826533	0	547.0328046	9.095484	SSTR5	2.201284833	8.298265334	3.769737206	1.914464	
IFT43	200.3169198	332.2406467	1.658575057	0.729944	PNMA8C	0.829826533	0	547.0328046	9.095484	FBXW12	2.201284833	8.298265334	3.769737206	1.914464	
KCNB2	15.40899383	25.55697282	1.658575057	0.729944	ENSG00000	0.829826533	0	547.0328046	9.095484	KCNA4	2.201284833	8.298265334	3.769737206	1.914464	
EHHADH	320.2869431	531.1405656	1.65832725	0.729729	ENSG00000	0.829826533	0	547.0328046	9.095484	GABRA5	2.201284833	8.298265334	3.769737206	1.914464	
GNB2	753.9400552	1250.069323	1.658048693	0.729486	ENSG00000	0.829826533	0	547.0328046	9.095484	CD300E	2.201284833	8.298265334	3.769737206	1.914464	
MYH10	2812.141374	4662.480781	1.657982356	0.729429	ENSG00000	0.829826533	0	547.0328046	9.095484	ATP6AP1-DT	2.201284833	8.298265334	3.769737206	1.914464	
UCKL1	441.3576089	731.1516573	1.656596924	0.728223	PGM5P3-AS	0.829826533	0	547.0328046	9.095484	SPATA31A1	2.201284833	8.298265334	3.769737206	1.914464	
NDUFB7	324.6895128	537.807602	1.656375032	0.728029	Y_RNA.133	0.829826533	0	547.0328046	9.095484	HIGD1AP16	2.201284833	8.298265334	3.769737206	1.914464	
ARHGEF40	465.5717421	771.1538756	1.656358851	0.728015	ENSG00000	0.829826533	0	547.0328046	9.095484	PSG7	2.201284833	8.298265334	3.769737206	1.914464	
MYL6B	70.44111464	116.6731368	1.656321559	0.727983	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464	
IRX5	55.03212081	91.11616398	1.655690579	0.727433	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	RPS7P10	2.201284833	8.298265334	3.769737206	1.914464	
SHFL	192.6124229	318.9065739	1.655690579	0.727433	RBM22P4	0.829826533	0	547.0328046	9.095484	LMCD1-AS1	2.201284833	8.298265334	3.769737206	1.914464	
GUCY1B1	347.8030036	575.5874749	1.654923819	0.726765	PSMB3	0.829826533	0	547.0328046	9.095484	KLHL7-DT	2.201284833	8.298265334	3.769737206	1.914464	
DDAH1	1085.233422	1795.655134	1.654625721	0.726505	ENSG00000	0.829826533	0	547.0328046	9.095484	LINC00412	2.201284833	8.298265334	3.769737206	1.914464	
TESC	79.24625397	131.1183823	1.654568837	0.726455	ENSG00000	0.829826533	0	547.0328046	9.095484	NUP107-DT	2.201284833	8.298265334	3.769737206	1.914464	
NSFP1	39.62312699	65.55919115	1.654568837	0.726455	ENSG00000	0.829826533	0	547.0328046	9.095484	FAR1-IT1	2.201284833	8.298265334	3.769737206	1.914464	
PTGES2	198.1156349	327.7959558	1.654568837	0.726455	ENSG00000	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464	
DENND2C	206.9207743	342.2412013	1.653972166	0.725935	NLRP3P1	0.829826533	0	547.0328046	9.095484	PRKACB-DT	2.201284833	8.298265334	3.769737206	1.914464	

TCIRG1	279.5631737	462.2478563	1.653464761	0.725492	MLECP1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
EVI5L	163.99572	271.1261465	1.653251356	0.725306	DDX6P2	0.829826533	0	547.0328046	9.095484	DOC2B	2.201284833	8.298265334	3.769737206	1.914464
GRB2	633.9700318	1047.835886	1.652816116	0.724926	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM106A	2.201284833	8.298265334	3.769737206	1.914464
HCFC1R1	209.1220591	345.5747195	1.652502471	0.724652	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
GMEB2	181.6059987	300.0166375	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
ATE1	435.8543969	720.03993	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
NTAQ1	169.4989321	280.0155283	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
SHOC1	36.32119974	60.0033275	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
SMIM13	36.32119974	60.0033275	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
TRIM58	24.21413316	40.00221833	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	8.298265334	3.769737206	1.914464
MUCL1	24.21413316	40.00221833	1.652019425	0.724231	NF1P7	0.829826533	0	547.0328046	9.095484	SUGT1P3.1	2.201284833	8.298265334	3.769737206	1.914464
RPS24P19	24.21413316	40.00221833	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	TNMD	1.100642416	4.149132667	3.769737206	1.914464
DLX6	12.10706658	20.00110917	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	PF4V1	1.100642416	4.149132667	3.769737206	1.914464
HEATR4	12.10706658	20.00110917	1.652019425	0.724231	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	TREML2	1.100642416	4.149132667	3.769737206	1.914464
ZNF296	60.5353329	100.0055458	1.652019425	0.724231	ENSG000002	0.829826533	0	547.0328046	9.095484	IGFLR1	1.100642416	4.149132667	3.769737206	1.914464
TUSC3	1282.248415	2117.895226	1.651704304	0.723955	VWA8-AS1	0.829826533	0	547.0328046	9.095484	KRT36	1.100642416	4.149132667	3.769737206	1.914464
MAP3K11	510.6980812	843.3801032	1.651426027	0.723712	ENSG000002	0.829826533	0	547.0328046	9.095484	GDPD2	1.100642416	4.149132667	3.769737206	1.914464
TBC1D7	166.1970049	274.4596647	1.651411618	0.7237	ENSG000002	0.829826533	0	547.0328046	9.095484	MMD2	1.100642416	4.149132667	3.769737206	1.914464
HSF4	126.5738779	208.9004735	1.650423271	0.722836	ENSG000002	0.829826533	0	547.0328046	9.095484	OR4D1	1.100642416	4.149132667	3.769737206	1.914464
SBK1	90.25267814	148.897146	1.649780916	0.722274	ZBTB2P1	0.829826533	0	547.0328046	9.095484	IL19	1.100642416	4.149132667	3.769737206	1.914464
COG1	708.8137161	1168.953713	1.64916915	0.721739	ENSG000002	0.829826533	0	547.0328046	9.095484	CER1	1.100642416	4.149132667	3.769737206	1.914464
LGI2	33.01927249	54.44746384	1.64896013	0.721557	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNS2	1.100642416	4.149132667	3.769737206	1.914464
BCORL1	1070.925071	1765.65347	1.648718027	0.721345	ENSG000002	0.829826533	0	547.0328046	9.095484	IRX6	1.100642416	4.149132667	3.769737206	1.914464
ANKMY1	446.860821	736.7075209	1.64862858	0.721266	ENSG000002	0.829826533	0	547.0328046	9.095484	IZUMO2	1.100642416	4.149132667	3.769737206	1.914464
BLVRB	410.5396213	676.7041934	1.648328586	0.721004	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	LY6D	1.100642416	4.149132667	3.769737206	1.914464
TDRD7	287.2676707	473.3595836	1.647799707	0.720541	Metazoa_SRI	0.829826533	0	547.0328046	9.095484	LINC01620	1.100642416	4.149132667	3.769737206	1.914464
COLEC12	2498.458285	4115.783797	1.647329404	0.720129	ENSG000002	0.829826533	0	547.0328046	9.095484	SERPINA9	1.100642416	4.149132667	3.769737206	1.914464
ARMC7	41.82441182	68.89270935	1.647188959	0.720006	LINC00624	0.829826533	0	547.0328046	9.095484	OR10H5	1.100642416	4.149132667	3.769737206	1.914464
EFTUD2	803.4689639	1323.406723	1.647116171	0.719942	ENSG000002	0.829826533	0	547.0328046	9.095484	TRIM60	1.100642416	4.149132667	3.769737206	1.914464
SLC20A1	489.7858753	806.711403	1.647069554	0.719901	ENSG000002	0.829826533	0	547.0328046	9.095484	FLJ40194	1.100642416	4.149132667	3.769737206	1.914464
ZSWIM9	92.45396297	152.2306642	1.646556398	0.719452	ENSG000002	0.829826533	0	547.0328046	9.095484	OLIG3	1.100642416	4.149132667	3.769737206	1.914464
RPS15P4	71.54175706	117.7843095	1.646371495	0.71929	ENSG000002	0.829826533	0	547.0328046	9.095484	CYLC1	1.100642416	4.149132667	3.769737206	1.914464
SLC25A5	458.9678876	755.5974574	1.646297002	0.719225	ENSG000002	0.829826533	0	547.0328046	9.095484	C1QTNF12	1.100642416	4.149132667	3.769737206	1.914464
ARHGAP45	172.8008594	284.4602192	1.646173638	0.719117	ENSG000002	0.829826533	0	547.0328046	9.095484	POU3F2	1.100642416	4.149132667	3.769737206	1.914464
AP5Z1	220.1284833	362.2423104	1.645594905	0.718609	ENSG000002	0.829826533	0	547.0328046	9.095484	ARGFX	1.100642416	4.149132667	3.769737206	1.914464
MAIP1	59.43469048	97.78320037	1.645220991	0.718281	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM215	1.100642416	4.149132667	3.769737206	1.914464
IFT122	624.06425	1026.723604	1.645220991	0.718281	ENSG000002	0.829826533	0	547.0328046	9.095484	MEIG1	1.100642416	4.149132667	3.769737206	1.914464
PYCR2	97.95717505	161.1200461	1.644800863	0.717913	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORA73	1.100642416	4.149132667	3.769737206	1.914464
ACVR1	376.4197064	618.9232114	1.644237007	0.717418	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU6-433P	1.100642416	4.149132667	3.769737206	1.914464
A4GALT	352.2055732	578.9209931	1.643701966	0.716949	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU6-1284P	1.100642416	4.149132667	3.769737206	1.914464
ZBTB3	141.9828717	233.3462736	1.643481857	0.716756	ENSG000002	0.829826533	0	547.0328046	9.095484	TIMM23B	1.100642416	4.149132667	3.769737206	1.914464
COG7	895.9229269	1472.303869	1.643337641	0.716629	ENSG000002	0.829826533	0	547.0328046	9.095484	OR5L2	1.100642416	4.149132667	3.769737206	1.914464
ARSG	64.93790256	106.6725822	1.642685982	0.716057	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU1-109P	1.100642416	4.149132667	3.769737206	1.914464
TAF11	203.618847	334.4629922	1.642593488	0.715975	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-TV	1.100642416	4.149132667	3.769737206	1.914464
KBTBD3	82.54818122	135.5630732	1.64222968	0.715656	ENSG000002	0.829826533	0	547.0328046	9.095484	POLD2P1	1.100642416	4.149132667	3.769737206	1.914464
WBP2	1034.603871	1698.983106	1.642158079	0.715593	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR320B2	1.100642416	4.149132667	3.769737206	1.914464
PGAP2	126.5738779	207.7893008	1.641644424	0.715142	ENSG000002	0.829826533	0	547.0328046	9.095484	RABGAP1L-I	1.100642416	4.149132667	3.769737206	1.914464
ENSG000002	135.3790172	222.2345463	1.641573051	0.715079	OR10X1	0.829826533	0	547.0328046	9.095484	MIR181A2HC	1.100642416	4.149132667	3.769737206	1.914464
PSMA5	467.7730269	767.8203574	1.641437862	0.71496	ENSG000002	0.829826533	0	547.0328046	9.095484	RPSAP18	1.100642416	4.149132667	3.769737206	1.914464
HLA-C	911.3319207	1495.638497	1.64115671	0.714713	ENSG000002	0.829826533	0	547.0328046	9.095484	TMLHE-AS1	1.100642416	4.149132667	3.769737206	1.914464
WDTC1	931.1434842	1527.862506	1.640845403	0.714439	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
DHODH	61.63597531	101.1167186	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	SNX30-DT	1.100642416	4.149132667	3.769737206	1.914464
IRF5	70.44111464	115.5619641	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02679	1.100642416	4.149132667	3.769737206	1.914464
BRI3BP	70.44111464	115.5619641	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	SUGT1P1	1.100642416	4.149132667	3.769737206	1.914464
MTFR2	17.61027866	28.89049102	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02798	1.100642416	4.149132667	3.769737206	1.914464
SYCP2L	17.61027866	28.89049102	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	DOCK8-AS2	1.100642416	4.149132667	3.769737206	1.914464
ANKRD23	17.61027866	28.89049102	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL35AP2	1.100642416	4.149132667	3.769737206	1.914464
TERT	17.61027866	28.89049102	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	NKX1-2	1.100642416	4.149132667	3.769737206	1.914464
BMP15	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	RHEBP1	1.100642416	4.149132667	3.769737206	1.914464
CLEC18B	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
C1orf87	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD66	1.100642416	4.149132667	3.769737206	1.914464
LCN12	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
TM4SF19-AS	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02595	1.100642416	4.149132667	3.769737206	1.914464
ZNF230-DT	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	MMADHC-D	1.100642416	4.149132667	3.769737206	1.914464
ENSG000002	8.80513933	14.44524551	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	RNF14P1	1.100642416	4.149132667	3.769737206	1.914464
LRRC53	26.41541799	43.33573653	1.640547068	0.714177	ENSG000002	0.829826533	0	547.0328046	9.095484	ERVH48-1	1.100642416	4.149132667	3.769737206	1.914464
ADRM1	486.483948	797.8220212	1.639976045	0.713675	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01762	1.100642416	4.149132667	3.769737206	1.914464
NUP93	363.2119974	595.5885841	1.639782244	0.713504	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
HAUS5	116.6680961	191.1217098	1.638166012	0.712082	ENSG000002	0.829826533	0	547.0328046	9.095484	USP27X-DT	1.100642416	4.149132667	3.769737206	1.914464
TBC1D8	1391.212014	2279.015272	1.638150942	0.712068	ENSG000002	0.829826533	0	547.0328046	9.095484	SOD1-DT	1.100642416	4.149132667	3.769737206	1.914464
ERCC1	556.9250626	912.2728125	1.638053077	0.711982	ENSG000002	0.829826533	0	547.0328046	9.095484	C2CD4D-AS1	1.100642416	4.149132667	3.769737206	1.914464
CCNE2	49.52890873	81.11560939	1.637742714	0.711709	ENSG000002	0.829826533	0	547.0328046	9.095484	KDM4E	1.100642416	4.149132667	3.769737206	1.914464
SREBF2	1409.922935	2309.016936	1.637690173	0.711662	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
PDPR	497.4903722	814.4896121	1.637196733	0.711228	ENSG000002	0.829826533	0	547.0328046	9.095484	MSH2-OT1	1.100642416	4.149132667	3.769737206	1.914464
SIRT3	122.1713082	200.0110917	1.637136367	0.711174	ENSG000002	0.829826533	0	547.0328046	9.095484	FRGCA	1.100642416	4.149132667	3.769737206	1.914464
THAP4	502.9935842	823.378994	1.636957249	0.711017	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
TIE1	72.64239948	118.8954823	1.636722949	0.71081	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
USB1	86.95075089	142.2301096	1.635754817	0.709957	ENSG000002	0.829826533	0	547.0328046	9.095484	SCIRT	1.100642416	4.149132667	3.769737206	1.914464
SRGAP2	582.2398382	952.2750308	1.635537399	0.709765	ENSG000002	0.829826533	0	547.0328046	9.095484	RNF216-IT1	1.100642416	4.149132667	3.769737206	1.914464
SELENOI	257.5503254	421.1344652	1.635154079	0.709427	ENSG000002	0.829826533	0	547.0328046	9.095484	TFAP2E-AS1	1.100642416	4.149132667	3.769737206	1.914464
RPS27A	778.1541883	1272.292777	1.635013724	0.709303	LINC01666	0.829826533	0	547.0328046	9.095484	RN7SL751P	1.100642416	4.149132667	3.769737206	1.914464
SMIM14	369.8158519	604.4779659	1.634537738	0.708883	ENSG000002	0.829826533	0	547.0328046	9.095484	PSG2	1.100642416	4.149132667	3.769737206	1.914464
CSNK1D	1636.655273	2674.592765	1.634182108	0.708569	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
ZC3H12A	366.5139246	598.9221022	1.634104633	0.7085	ENSG000002	0.829826533	0	547.0328046	9.095484	ICE2P2	1.100642416	4.149132667	3.769737206	1.914464
TMEM86A	37.42184215	61.11450023	1.633123778	0.707634	LINC00216	0.829826533	0	547.0328046	9.095484	LINC02150	1.100642416	4.149132667	3.769737206	1.914464
ICMT	187.1092108	305.5725011	1.633123778	0.707634	ENSG000002	0.829826533	0	547.0328046	9.095484	USP38-DT	1.100642416	4.149132667	3.769737206	1.914464
ATP6V1D	313.6830886	512.2506292	1.633019591	0.707542	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
KLHL28	347.8030036	567.8092658	1.632559984	0.707136	ENSG000002	0.829826533	0	547.0328046	9.095484	RNU6-998P	1.100642416	4.149132667	3.769737206	1.914464
PDGFRL	51.73019357	84.44912759	1.632492008	0.707076	ENSG000002	0.829826533	0	547.0328046	9.095484	RNA5SP168	1.100642416	4.149132667	3.769737206	1.914464
BTBD9	706.6124313	1153.397295	1.632291259	0.706899	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01605	1.100642416	4.149132667	3.769737206	1.914464
VDAC2P5	94.6552478	154.4530097	1.631742701	0.706414	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
PABIR2	252.0471133	411.1339106	1.631178811	0.705915	MAPT-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
OTUB1	604.2526865	985.6102128	1.631122599	0.705865	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
NOVA2	28.61670282	46.66925472	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
OPRPN	14.30835141	23.33462736	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	PRSS23-AS1	1.100642416	4.149132667	3.769737206	1.914464
FOXL1	14.30835141	23.33462736	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	KLRF2	1.100642416	4.149132667	3.769737206	1.914464
THBS3-AS1	14.30835141	23.33462736	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
ENSG000002	14.30835141	23.33462736	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464
KCTD17	42.92505424	70.00388208	1.630839689	0.705615	OR5D13	0.829826533	0	547.0328046	9.095484	SIPA1L1-AS1	1.100642416	4.149132667	3.769737206	1.914464
WNT9A	42.92505424	70.00388208	1.630839689	0.705615	ENSG000002	0.829826533	0	547.0328046	9.095484	GOLGA8VP	1.100642416	4.149132667	3.769737206	1.914464
CYTH2	771.5503338	1257.847532	1.630285772	0.705125	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464

MLF2	562.4282747	916.7175034	1.629927841	0.704808	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
COASY	587.7430503	957.8308945	1.629676257	0.704585	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD20A1	1.100642416	4.149132667	3.769737206	1.914464	
HDAC4	670.2912315	1092.282795	1.629564499	0.704486	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02911	1.100642416	4.149132667	3.769737206	1.914464	
MRPL35	125.4732355	204.4557826	1.629477249	0.704409	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
SEMA4B	783.6574004	1276.737468	1.629203613	0.704167	ENSG000002	0.829826533	0	547.0328046	9.095484	GOLGA8H	1.100642416	4.149132667	3.769737206	1.914464	
AGBL5	532.7109295	867.8259033	1.629074711	0.704053	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
PPP1CA	914.6338479	1488.97146	1.627942661	0.70305	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
DPH1	314.7837311	512.2506292	1.627309733	0.702489	SLC7A2-IT1	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
RPS5	1227.216294	1996.777398	1.627078623	0.702284	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
SCN5A	39.62312699	64.44801842	1.626525298	0.701793	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
CFAP157	19.81156349	32.22400921	1.626525298	0.701793	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
TMPRSS7	19.81156349	32.22400921	1.626525298	0.701793	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
AGAP7P	19.81156349	32.22400921	1.626525298	0.701793	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
KIF1B	1709.297673	2779.043001	1.625839107	0.701184	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
POLR3K	84.74946605	137.7854187	1.625796894	0.701147	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
SFT2D1	129.8758051	211.122819	1.625574669	0.70095	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
APP	6508.098608	10578.3644	1.625415508	0.700809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ADD1	1998.766628	3247.957894	1.62498105	0.700423	ENSG000002	0.829826533	0	547.0328046	9.095484	LAMB2P1	1.100642416	4.149132667	3.769737206	1.914464	
PASK	256.449683	416.6897743	1.624840278	0.700298	ENSG000002	0.829826533	0	547.0328046	9.095484	YTHDF3-DT	1.100642416	4.149132667	3.769737206	1.914464	
ATG4B	969.6659688	1574.53176	1.62378779	0.699363	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
NDRG3	1033.503229	1677.870824	1.623479035	0.699089	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
TBC1D2	179.4047139	291.1272556	1.62274028	0.698432	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
CALCOCO1	1138.064258	1846.76908	1.6227283	0.698421	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ENSG000002	30.81798766	50.00277291	1.622519078	0.698235	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
TARBP2	83.64882364	135.5630732	1.620621395	0.696547	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ENSG000002	130.9764475	212.2339917	1.620398138	0.696348	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
FKBP9	713.2162858	1155.619641	1.6202934	0.696255	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
KDM6A	1855.683114	3005.722239	1.619738961	0.695761	ENSG000002	0.829826533	0	547.0328046	9.095484	RN7SL166P	1.100642416	4.149132667	3.769737206	1.914464	
RMND5B	253.1477557	410.0227379	1.619697306	0.695724	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
LPA	52.83083598	85.56030032	1.619514413	0.695561	ZBTB7C-AS	0.829826533	0	547.0328046	9.095484	RNVU1-4	1.100642416	4.149132667	3.769737206	1.914464	
TF	74.84368431	121.1178277	1.618277198	0.694459	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
CHERP	803.4689639	1300.072096	1.61807382	0.694277	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
OAS3	274.0599617	443.3579198	1.617740575	0.69398	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
TSPAN6	340.0985066	550.0305021	1.617268207	0.693559	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
NRP1	5583.558978	9028.278443	1.616939747	0.693266	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
VPS35L	1195.297664	1931.218207	1.61567973	0.692141	ENSG000002	0.829826533	0	547.0328046	9.095484	ERICD	1.100642416	4.149132667	3.769737206	1.914464	
OAS1	132.07709	213.3451644	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
TMEM52	16.50963624	26.66814555	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	METTL14-DT	1.100642416	4.149132667	3.769737206	1.914464	
DDX3P3	16.50963624	26.66814555	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ZNF433-AS1	27.51606041	44.44690926	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
EEF1A1P9	27.51606041	44.44690926	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
RAB36	49.52890873	80.00443666	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
NR2C2AP	38.52248457	62.22567296	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ANKRD18CP	11.00642416	17.7787637	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
SAPCD2	11.00642416	17.7787637	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ENSG000002	11.00642416	17.7787637	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
XG	5.503212081	8.889381852	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
FNDC11	5.503212081	8.889381852	1.615307882	0.691809	LINC01374	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
WDR88	5.503212081	8.889381852	1.615307882	0.691809	THRIL	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ATOH1	5.503212081	8.889381852	1.615307882	0.691809	LINC00836	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
OR5A1	5.503212081	8.889381852	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	1.100642416	4.149132667	3.769737206	1.914464	
ZNF729	5.503212081	8.889381852	1.615307882	0.691809	ELDR	0.829826533	0	547.0328046	9.095484	RAET1K	1.100642416	4.149132667	3.769737206	1.914464	
ASB12	5.503212081	8.889381852	1.615307882	0.691809	LINC01127	0.829826533	0	547.0328046	9.095484	BTN2A3P.1	1.100642416	4.149132667	3.769737206	1.914464	
ENSG000002	5.503212081	8.889381852	1.615307882	0.691809	ENSG000002	0.829826533	0	547.0328046	9.095484	INHBB	96.85653263	364.2938481	3.761169621	1.911181	
RTL9	5.503212081	8.889381852	1.615307882	0.691809	MIR664A	0.829826533	0	547.0328046	9.095484	CHML	226.7323378	851.4020232	3.75509745	1.90885	
USP2-AS1	5.503212081	8.889381852	1.615307882	0.691809	ERC2-IT1	0.829826533	0	547.0328046	9.095484	MT-CO1	8729.195004	32755.74275	3.752435676	1.907827	
ENSG000002	5.503212081	8.889381852	1.615307882	0.691809	LINC01080	0.829826533	0	547.0328046	9.095484	GBE1	494.1884449	1853.832476	3.751266333	1.907378	
ENSG000002	5.503212081	8.889381852	1.615307882	0.691809	LINC01230	0.829826533	0	547.0328046	9.095484	MIS12	96.85653263	362.6341951	3.744034452	1.904594	
H3-3A	1037.905799	1675.648479	1.614451409	0.691044	LINC00602	0.829826533	0	547.0328046	9.095484	HSPA4L	167.2976473	625.6892062	3.739976122	1.903029	
ATG13	751.7387703	1213.400623	1.614125373	0.690753	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF93	161.7944352	604.9435428	3.738963841	1.902639	
ARMC6	312.5824462	504.4724201	1.613885956	0.690539	ENSG000002	0.829826533	0	547.0328046	9.095484	RELT	26.41541799	98.74935747	3.738322729	1.902391	
ZNF813	202.5182046	326.684783	1.61311317	0.689848	ENSG000002	0.829826533	0	547.0328046	9.095484	PASK	256.449683	958.449646	3.737378946	1.902027	
RHBDD3	79.24625397	127.7848641	1.612503528	0.689302	ENSG000002	0.829826533	0	547.0328046	9.095484	WDR54	25.31477557	94.6002248	3.736956882	1.901864	
ADAT2	73.74304189	118.8954823	1.612294248	0.689115	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF883	25.31477557	94.6002248	3.736956882	1.901864	
EPHA5	57.23340565	92.22733671	1.61142493	0.688337	TMEM275	0.829826533	0	547.0328046	9.095484	ERH	395.1306275	1476.261403	3.736135091	1.901547	
COPG2	452.3640331	728.9293118	1.611377692	0.688295	PTMAP12	0.829826533	0	547.0328046	9.095484	ARL6IP6	199.2162773	742.6947474	3.728082651	1.898434	
FAM200C	166.1970049	267.7926283	1.611296356	0.688222	ENSG000002	0.829826533	0	547.0328046	9.095484	MMS22L	223.4304105	830.6563599	3.71774083	1.894426	
WDR81	103.4603871	166.6759097	1.61101185	0.687967	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM147-A	31.91863007	118.6651943	3.71774083	1.894426	
EMILIN3	51.73019357	83.33795486	1.61101185	0.687967	MTND2P41	0.829826533	0	547.0328046	9.095484	MT-CO2	5159.811648	19153.22622	3.712001043	1.892197	
FZD4	747.3362007	1203.400068	1.610252611	0.687287	MIR4521	0.829826533	0	547.0328046	9.095484	KALRN	1543.100668	5722.483774	3.708431922	1.890809	
CDK10	198.1156349	318.9065739	1.609699174	0.686791	ENSG000002	0.829826533	0	547.0328046	9.095484	HOXB7	13.207709	48.95976547	3.706908252	1.890216	
CCDC124	187.1092108	301.1278102	1.60936925	0.686495	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	13.207709	48.95976547	3.706908252	1.890216	
TMEM79	111.164884	178.8988098	1.609310452	0.686443	MIR384	0.829826533	0	547.0328046	9.095484	SOX8	12.10706658	44.8106328	3.701196529	1.887992	
KAT8	270.7580344	435.5797107	1.60874159	0.685933	ENSG000002	0.829826533	0	547.0328046	9.095484	RCC2	12.10706658	44.8106328	3.701196529	1.887992	
APOL2	484.2826632	778.9320847	1.608424468	0.685648	CFAP97D2	0.829826533	0	547.0328046	9.095484	PDZD4	72.64239948	268.8637968	3.701196529	1.887992	
PELI3	154.0899383	247.7915191	1.608096686	0.685354	ENSG000002	0.829826533	0	547.0328046	9.095484	CD320	94.6552478	350.1867971	3.69960256	1.88737	
ZNF785	183.8072835	295.5719466	1.608053505	0.685315	ENSG000002	0.829826533	0	547.0328046	9.095484	PCDH12	46.22698148	170.9442659	3.697932687	1.886719	
SPATA25	29.71734524	47.78042745	1.607829605	0.685115	ENSG000002	0.829826533	0	547.0328046	9.095484	HPRT1	358.8094277	1325.232974	3.693417373	1.884956	
ZNF497	29.71734524	47.78042745	1.607829605	0.685115	U6.1	0.829826533	0	547.0328046	9.095484	ANKLE1	9.905781747	36.51236747	3.685965268	1.882042	
DYNC1I1	83.64882364	134.4519005	1.607337613	0.684673	MIR1244-3	0.829826533	0	547.0328046	9.095484	LRP12	457.8672452	1687.037342	3.684555644	1.881491	
DEXI	53.9314784	86.67147305	1.607066515	0.68443	ENSG000002	0.829826533	0	547.0328046	9.095484	SLFNL1-AS1	28.61670282	105.3879697	3.68274327	1.880781	
SNU13	420.445403	675.5930207	1.606850773	0.684236	CSNKA2IP	0.829826533	0	547.0328046	9.095484	UCP2	310.3811614	1141.84131	3.678835741	1.879249	
H3C6	78.14561156	125.5625187	1.606776326	0.684169	GPR141BP	0.829826533	0	547.0328046	9.095484	ARL4C	151.8886534	558.473257	3.676859622	1.878474	
RBCK1	514.0000084	825.6013395	1.606228261	0.683677	MIR7153	0.829826533	0	547.0328046	9.095484	MIS18A	79.24625397	291.2691132	3.675493776	1.877938	
SPAG7	169.4989321	272.2373192	1.606129996	0.683589	LINC02775	0.829826533	0	547.0328046	9.095484	CMTM8	17.61027866	64.7264696	3.675493776	1.877938	
ZNF136	169.4989321	272.2373192	1.606129996	0.683589	ENSG000002	0.829826533	0	547.0328046	9.095484	SYT14	8.80513933	32.3632348	3.675493776	1.877938	
IDS	435.8543969	700.0388208	1.606129996	0.683589	ENSG000002	0.829826533	0	547.0328046	9.095484	PHACTR1	60.5353329	222.3935109	3.673780259	1.877265	
MYH15	48.42826632	77.7820912	1.606129996	0.683589	ENSG000002	0.829826533	0	547.0328046	9.095484	NPHP4	177.203429	650.5840022	3.671396235	1.876329	
NUP85	343.4004339	551.1416748	1.604953344	0.682531	MTND5P42	0.829826533	0	547.0328046	9.095484	TRPV2	99.05781747	363.4640216	3.66921088	1.87547	
NR5A2	42.92505424	68.89270935	1.604953344	0.682531	ENSG000002	0.829826533	0	547.0328046	9.095484	MUCL1	24.21413316	88.79143907	3.666926191	1.874571	
PARK7	670.2912315	1075.615204	1.604698306	0.682302	ENSG000002	0.829826533	0	547.0328046	9.095484	MT2A	835.387594	3062.889735	3.666429519	1.874376	
TRMT2B	412.7409061	662.2589479	1.604539163	0.682159	MIR6759	0.829826533	0	547.0328046	9.095484	MT-TQ	23.11349074	84.6423064	3.662030428	1.872644	
CDC14B	280.6638162	450.0249562	1.603430618	0.681162	MIR5583-2	0.829826533	0	547.0328046	9.095484	TPI1P1	15.40899383	56.42820427	3.662030428	1.872644	
SLC9C2	18.71092108	30.00166375	1.603430618	0.681162	CD200LP	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	28.21410213	3.662030428	1.872644	
KLK1	18.71092108	30.00166375	1.603430618	0.681162	MIR522	0.829826533	0	547.0328046	9.095484	FAM20B	423.7473303	1549.286138	3.656155513	1.870327	
RCN1P2	18.71092108	30.00166375	1.603430618	0.681162	MIR6715B	0.829826533	0	547.0328046	9.095484	PEG13	14.30835141	52.2790716	3.653745292	1.869376	
GTF2IP4	219.0278408	351.1305831	1.603132194	0.680893	ENSG000002	0.829826533	0	547.0328046	9.095484	NHP2	208.0214167	759.291278	3.650063009	1.867921	
GTF2H5	125.4732355	201.1222644	1.602909686	0.680693	ENSG000002	0.829826533	0	547.0328046	9.095484	DDB2	96.85653263	353.5061032	3.649791022	1.867814	
GLMN	189.3104956	303.3501557	1.60239481	0.68023	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF232	151.8886534	554.3241243	3.649542686	1.867716	
ZFYVE16	1818.261272	2913.494902	1.602352174	0.680191	TAF11L9	0.829826533	0	547.0328046	9.095484	IMPA1	427.0492575	1557.584403	3.647317905	1.866836	
TP53	1624.548206	2602.366537	1.601901702	0.679786	MIR5196	0.829826533	0	547.0328046	9.095484	POLE	974.0685384	3552.487389	3.647061012	1.866734	

COG8	146.3854414	234.4574463	1.601644563	0.679554	ENSG000002	0.829826533	0	547.0328046	9.095484	MCMBP	759.4432672	2769.131142	3.646264654	1.866419
NTN5	31.91863007	51.11394565	1.601382814	0.679318	MIR3605	0.829826533	0	547.0328046	9.095484	SCOC	172.8008594	629.8383388	3.644879668	1.865871
SLC16A5	31.91863007	51.11394565	1.601382814	0.679318	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR600HG	19.81156349	72.1949084	3.644079299	1.865554
FAM124A	63.83726015	102.2278913	1.601382814	0.679318	ENSG000002	0.829826533	0	547.0328046	9.095484	MAGEA3	6.603854498	24.06496947	3.644079299	1.865554
REEP1	71.54175706	114.4507913	1.599776075	0.67787	ENSG000002	0.829826533	0	547.0328046	9.095484	TRPM2-AS	6.603854498	24.06496947	3.644079299	1.865554
ZFP28	269.657392	431.1350198	1.598825149	0.677012	MIR133A2	0.829826533	0	547.0328046	9.095484	RPEL1	6.603854498	24.06496947	3.644079299	1.865554
GPRC5B	132.07709	211.122819	1.598481758	0.676702	LINC01226	0.829826533	0	547.0328046	9.095484	KPNB1-DT	6.603854498	24.06496947	3.644079299	1.865554
MCUR1	211.3233439	337.7965104	1.598481758	0.676702	ENSG000002	0.829826533	0	547.0328046	9.095484	POMK	341.1991491	1243.080147	3.643268603	1.865233
EIF4BP7	26.41541799	42.22456379	1.598481758	0.676702	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	146.3854414	532.7486344	3.639355317	1.863683
ATP6V1H	617.4603955	986.7213855	1.598031862	0.676296	SCYGR2	0.829826533	0	547.0328046	9.095484	METTL21A	183.8072835	668.8401859	3.638812201	1.863468
ABHD3	173.9015018	277.7931829	1.597416814	0.675741	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC103	12.10706658	43.98080627	3.632655853	1.861025
CASKIN2	221.2291257	353.3529286	1.597226077	0.675569	ENSG000002	0.829826533	0	547.0328046	9.095484	NCBP2AS2	12.10706658	43.98080627	3.632655853	1.861025
SNF8	249.8458285	398.9110106	1.596628661	0.675029	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF620	102.3597447	371.7622869	3.631918856	1.860732
CSAD	236.6381195	377.7987287	1.596525232	0.674935	ENSG000002	0.829826533	0	547.0328046	9.095484	DNA2	361.0107125	1310.296096	3.629521371	1.859779
ARL2	81.44753881	130.0072096	1.596207958	0.674649	LINC02780	0.829826533	0	547.0328046	9.095484	XRCC4	52.83083598	191.6899292	3.62837206	1.859322
GPBP1L1	1302.059978	2077.893008	1.595850454	0.674325	RPSAP56	0.829826533	0	547.0328046	9.095484	TMEM38B	122.1713082	443.1273688	3.627098501	1.858816
SOAT1	1103.944344	1761.208779	1.595378236	0.673899	LINC02781	0.829826533	0	547.0328046	9.095484	PSIP1	1857.884399	6738.191451	3.626808781	1.858701
PMS2P4	130.9764475	208.9004735	1.594946858	0.673508	ENSG000002	0.829826533	0	547.0328046	9.095484	RBL1	315.8843735	1145.160616	3.625252504	1.858081
CSRNP2	292.7708827	466.6925472	1.594053831	0.6727	ENSG000002	0.829826533	0	547.0328046	9.095484	CHAF1A	399.5331971	1448.047301	3.624347892	1.857721
RIMKLB	376.4197064	600.033275	1.594053831	0.6727	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	198.1156349	717.7999514	3.623136314	1.857239
SDHAF4	20.91220591	33.33518194	1.594053831	0.6727	SCYGR7	0.829826533	0	547.0328046	9.095484	TROAP	67.13918739	243.1391743	3.621419676	1.856555
ENSG000002	20.91220591	33.33518194	1.594053831	0.6727	ENSG000002	0.829826533	0	547.0328046	9.095484	IER3IP1	16.50963624	59.7475104	3.618947717	1.85557
CCDC142	133.1777324	212.2339917	1.593614698	0.672303	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC25A34	5.503212081	19.9158368	3.618947717	1.85557
NR4A2	91.35332055	145.5636278	1.593413649	0.672121	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF623	5.503212081	19.9158368	3.618947717	1.85557
DIPK1A	129.8758051	206.678128	1.591352045	0.670253	LINC02359	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	19.9158368	3.618947717	1.85557
APTX	321.3875856	511.1394565	1.590414439	0.669403	CCDC39	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	19.9158368	3.618947717	1.85557
SCAP	1088.53535	1731.207116	1.590400455	0.66939	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	19.9158368	3.618947717	1.85557
BRF1	346.7023611	551.1416748	1.589668074	0.668726	ENSG000002	0.829826533	0	547.0328046	9.095484	SGCB	651.5803104	2355.047702	3.614362902	1.853741
ENC1	1971.250568	3133.507103	1.589603653	0.668667	ENSG000002	0.829826533	0	547.0328046	9.095484	RRAGD	234.4368347	847.2528906	3.613992194	1.853593
TANC2	1692.788036	2690.149183	1.589182535	0.668285	LINC01488	0.829826533	0	547.0328046	9.095484	WDR53	132.07709	477.1502567	3.612664822	1.853063
ZNF10	239.9400468	381.1322469	1.588447831	0.667618	ENSG000002	0.829826533	0	547.0328046	9.095484	INKA2	47.3276239	170.9442659	3.611934253	1.852772
ZNF200	82.54818122	131.1183823	1.588386084	0.667562	ENSG000002	0.829826533	0	547.0328046	9.095484	SPTBN5	79.24625397	285.4603275	3.60219333	1.848876
ZNF316	370.9164943	588.9215477	1.587746991	0.666981	ENSG000002	0.829826533	0	547.0328046	9.095484	RBM11	19.81156349	71.36508187	3.60219333	1.848876
GDI1	1578.321225	2505.694509	1.587569419	0.66682	ENSG000002	0.829826533	0	547.0328046	9.095484	SPSB4	9.905781747	35.68254093	3.60219333	1.848876
PAG1	311.4818038	494.4718655	1.587482349	0.666741	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	35.68254093	3.60219333	1.848876
FAM8A1	213.5246288	338.9076831	1.587206521	0.66649	ENSG000002	0.829826533	0	547.0328046	9.095484	RPP40	82.54818122	297.0778989	3.598842452	1.847533
AGL	1220.61244	1936.774071	1.586723196	0.66605	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNJ11	24.21413316	87.131786	3.598385514	1.84735
BCAM	2649.246296	4203.566443	1.586702773	0.666032	ENSG000002	0.829826533	0	547.0328046	9.095484	HMGA1	143.0835141	514.4924507	3.595749335	1.846292
KLHDC8B	46.22698148	73.33740027	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	MIS18BP1	1008.188453	3624.682298	3.59524282	1.846089
TCEAL9	123.2719506	195.5664007	1.586463098	0.665814	TBCEL-TEC	0.829826533	0	547.0328046	9.095484	COPS9	33.01927249	118.6651943	3.593816136	1.845517
SLC16A3	61.63597531	97.78320037	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	FBLL1	37.42184215	134.4318984	3.592337808	1.844923
ICAM5	15.40899383	24.44580009	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC34	79.24625397	284.6305009	3.591721838	1.844676
POU6F2	15.40899383	24.44580009	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	NOCT	64.93790256	233.1812559	3.590834423	1.844319
TTLL2	7.704496914	12.22290005	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD33B	64.93790256	233.1812559	3.590834423	1.844319
FAM178B	7.704496914	12.22290005	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	SMIM15	184.9079259	663.8612267	3.59022591	1.844075
ENSG000002	7.704496914	12.22290005	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	CHAC2	23.11349074	82.98265334	3.59022591	1.844075
ENSG000002	7.704496914	12.22290005	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF200	82.54818122	296.2480724	3.58878982	1.843497
WDR62	38.52248457	61.11450023	1.586463098	0.665814	ENSG000002	0.829826533	0	547.0328046	9.095484	PTMA	978.4711081	3510.166236	3.587398961	1.842938
KALRN	1543.100668	2447.913527	1.586360228	0.66572	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM161A	152.9892959	548.5153386	3.585318407	1.842101
ANKFY1	1376.903663	2183.454417	1.585771377	0.665185	ENSG000002	0.829826533	0	547.0328046	9.095484	APOO	116.6680961	418.2325728	3.584806701	1.841895
AAR2	225.6316953	357.7976195	1.585759567	0.665174	ENSG000002	0.829826533	0	547.0328046	9.095484	LCN12	8.80513933	31.53340827	3.581250345	1.840463
ZNF692	397.3319123	630.0349387	1.585664074	0.665087	ENSG000002	0.829826533	0	547.0328046	9.095484	ZSCAN1	4.402569665	15.76670413	3.581250345	1.840463
LRP3	235.5374771	373.3540378	1.585115211	0.664588	ENSG000002	0.829826533	0	547.0328046	9.095484	USH1G	4.402569665	15.76670413	3.581250345	1.840463
NPRL3	564.6295596	894.4940488	1.584213992	0.663767	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM139-A	4.402569665	15.76670413	3.581250345	1.840463
ADCY2	255.3490406	404.4668742	1.583976479	0.663551	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02315	4.402569665	15.76670413	3.581250345	1.840463
PSMD4	416.0428334	658.9254297	1.583792285	0.663383	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	15.76670413	3.581250345	1.840463
NBR1	1628.950776	2579.03191	1.583247295	0.662887	ENSG000002	0.829826533	0	547.0328046	9.095484	GOLPH3-DT	4.402569665	15.76670413	3.581250345	1.840463
DDB1	2829.751652	4479.13728	1.582872927	0.662545	FAM90A22	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	15.76670413	3.581250345	1.840463
FRS3	147.4860838	233.3462736	1.582157907	0.661894	ENSG000002	0.829826533	0	547.0328046	9.095484	H3-5	26.41541799	94.6002248	3.581250345	1.840463
PMM1	73.74304189	116.6731368	1.582157907	0.661894	ENSG000002	0.829826533	0	547.0328046	9.095484	RNA5-8SN3	13.207709	47.3001124	3.581250345	1.840463
MAPK8IP2	66.03854498	104.4502368	1.581655634	0.661436	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-ND4	16911.37073	60550.78249	3.580477506	1.840152
SLC35E1	532.7109295	842.2689304	1.581099399	0.660928	ENSG000002	0.829826533	0	547.0328046	9.095484	FBXO32	682.3982981	2438.860182	3.57395408	1.837521
ARHGEF28	233.3361923	368.9093468	1.581020686	0.660856	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPS16	220.1284833	786.6755536	3.573710871	1.837423
EEIG1	648.2783832	1024.501258	1.58034154	0.660236	CDC42-AS1	0.829826533	0	547.0328046	9.095484	SAE1	468.8736693	1675.419771	3.573286112	1.837251
SLCO2B1	640.5738863	1012.278358	1.580267913	0.660169	ENSG000002	0.829826533	0	547.0328046	9.095484	BICDL1	129.8758051	463.8730322	3.571666268	1.836597
PTHLH	25.31477557	40.00221833	1.580192493	0.6601	LINC02849	0.829826533	0	547.0328046	9.095484	PCGF6	20.91220591	74.684388	3.571329984	1.836461
KANSL3	905.8287086	1431.190478	1.579979156	0.659906	ENSG000002	0.829826533	0	547.0328046	9.095484	KLHL2	465.5717421	1659.653067	3.564763315	1.833806
GOLT1A	42.92505424	67.78153662	1.579067	0.659072	ENSG000002	0.829826533	0	547.0328046	9.095484	ATP6V0A4	12.10706658	43.15097974	3.564115176	1.833544
MFSD6	901.4261389	1423.412269	1.579067	0.659072	ENSG000002	0.829826533	0	547.0328046	9.095484	DISP3	36.32119974	129.4529392	3.564115176	1.833544
SUGP2	2312.449717	3651.313596	1.578980753	0.658994	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFA8	135.3790172	482.1292159	3.56132897	1.832416
NUP210	1249.229142	1972.331598	1.578838927	0.658864	ENSG000002	0.829826533	0	547.0328046	9.095484	HSP90AA2P	406.1370516	1443.898168	3.555199316	1.82993
PDCL	249.8458285	394.4663197	1.578838927	0.658864	ENSG000002	0.829826533	0	547.0328046	9.095484	JADE3	220.1284833	782.526421	3.554862185	1.829794
PPP6R1	425.9486151	672.2595025	1.578264323	0.658339	ENSG000002	0.829826533	0	547.0328046	9.095484	CNFN	69.34047223	246.4584804	3.554323651	1.829575
AFDN	6870.209963	10842.82351	1.578237575	0.658314	ENSG000002	0.829826533	0	547.0328046	9.095484	NR2C2AP	38.52248457	136.921378	3.554323651	1.829575
SIGLEC12	17.61027866	27.77931829	1.577449104	0.657593	ENSG000002	0.829826533	0	547.0328046	9.095484	PLEKHG4	15.40899383	54.7685512	3.554323651	1.829575
ZNF574	485.3833056	765.598012	1.577306024	0.657463	LINC02858	0.829826533	0	547.0328046	9.095484	NOTUM	7.704496914	27.3842756	3.554323651	1.829575
PLK4	97.95717505	154.4530097	1.576740138	0.656945	ENSG000002	0.829826533	0	547.0328046	9.095484	BVES-AS1	7.704496914	27.3842756	3.554323651	1.829575
GNS	1586.025722	2500.138646	1.576354413	0.656592	ENSG000002	0.829826533	0	547.0328046	9.095484	C5orf58	7.704496914	27.3842756	3.554323651	1.829575
FBXO32	682.3982981	1075.615204	1.576227853	0.656476	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC20A1	489.7858753	1740.14624	3.552871425	1.828985
ORMDL1	263.0535375	414.4674288	1.575601046	0.655902	ENSG000002	0.829826533	0	547.0328046	9.095484	TUBA1A	1873.293393	6654.378971	3.552235329	1.828727
PIM3	200.3169198	315.5730557	1.575368951	0.65569	ENSG000002	0.829826533	0	547.0328046	9.095484	DIRAS2	11.00642416	39.00184707	3.543552973	1.825197
AKAP10	585.5417655	922.2733671	1.575077	0.655422	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	39.00184707	3.543552973	1.825197
APOC1	27.51606041	43.33573653	1.574925185	0.655283	ENSG000002	0.829826533	0	547.0328046	9.095484	SPRED3	25.31477557	89.6212656	3.540274941	1.823861
GOLGA8B	82.54818122	130.0072096	1.574925185	0.655283	ENSG000002	0.829826533	0	547.0328046	9.095484	ADAMTS6	79.24625397	280.4813683	3.539364376	1.82349
AMFR	717.6188554	1130.062668	1.574739375	0.655113	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	39.62312699	140.2406841	3.539364376	1.82349
TYSND1	147.4860838	232.2351009	1.574623822	0.655007	ENSG000002	0.829826533	0	547.0328046	9.095484	SRR	189.3104956	669.6700124	3.537416192	1.822696
CNTROB	444.6595362	700.0388208	1.574325442	0.654734	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC16A4-AS	27.51606041	97.0897044	3.528474024	1.819044
ABHD10	204.7194894	322.2400921	1.57405674	0.654488	ENSG000002	0.829826533	0	547.0328046	9.095484	CSRP2	144.1841565	508.683665	3.528013599	1.818856
DOCK9	1650.963624	2597.921846	1.573579095	0.65405	ENSG000002	0.829826533	0	547.0328046	9.095484	EXO5	58.33404806	205.7969803	3.527905008	1.818812
EPN2	545.9186385	858.9365214	1.573378267	0.653866	ENSG000002	0.829826533	0	547.0328046	9.095484	MFSD9	84.74946605	298.737552	3.524949075	1.817602
CLBA1	216.826556	341.1300286	1.573285278	0.65378	ENSG000002	0.829826533	0	547.0328046	9.095484	ENY2	401.7344819	1414.024413	3.519798465	1.815493
ZNF274	368.7152095	580.0321658	1.573117004	0.653626	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	34.8527144	3.518421392	1.814928
PBLD	94.6552478	148.897146	1.57304692	0.653562	ENSG000002	0.829826533	0	547.0328046	9.095484	SPDYA	6.603854498	23.23514293	3.518421392	1.814928
SS18L2	47.3276239	74.44857301	1.57304692	0.653562	PCSEAT	0.829826533	0	547.0328046	9.095484	FUT2	6.603854498	23.23514293	3.518421392	1.814928
MORN4	47.3276239	74.44857301	1.57304692	0.653562	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	23.23514293	3.518421392	1.814928
BICRA	532.7109295	837.8242395	1.572755867	0.653295	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFB4P12	3.301927249	11.61757147	3.518421392	1.814928
TMEM177	57.23340565	90.00499125	1.572595414	0.653148	ENSG000002	0.829826533	0	547.0328046	9.095484	HIGD1B	3.301927249	11.61757147	3.518421392	1.814928
DOCK1	3606.805198	5671.425621	1.572423602	0.65299	ENSG000002	0.829826533	0	547.0328046	9.095484	ACOT4	3.301927249	11.61757147	3.518421392	1.814928
COLQ	67.13918739	105.5614095	1.572277139	0.652856	ENSG000002	0.829826533	0	547.0328046	9.095484	U3.2	3.301927249	11.61757147	3.518421392	1.814928
ABCA6	355.5075005	558.9198839	1.572174661	0.652762	ENSG000002	0.829826533	0	547.0328046	9.095484	HMSD	3.301927249	11.61757147	3.518421392	1.814928
CLN5	96.85653263	152.2306642	1.571712925	0.652338	ENSG000002	0.829826533	0	547.0328046	9.095484	RPS4XP16	3.301927249	11.61757147	3.518421392	1.814928

BRMS1	96.85653263	152.2306642	1.571712925	0.652338	ENSG000002	0.829826533	0	547.0328046	9.095484	ADGRB3-DT	3.301927249	11.61757147	3.518421392	1.814928
SLC2A4RG	533.8115719	838.9354122	1.571594653	0.652229	ENSG000002	0.829826533	0	547.0328046	9.095484	CD2BP2-DT	3.301927249	11.61757147	3.518421392	1.814928
GLMP	528.3083598	830.0460304	1.571139307	0.651811	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	11.61757147	3.518421392	1.814928
PCDHGA9	118.869381	186.6770189	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	11.61757147	3.518421392	1.814928
MCOLN2	59.43469048	93.33850944	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	11.61757147	3.518421392	1.814928
GRIP2	29.71734524	46.66925472	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	BRIX1	266.3554647	936.8741562	3.517382897	1.814502
LINC00623	39.62312699	62.22567296	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	RAD18	217.9271984	765.9298903	3.514613577	1.813366
CD209	19.81156349	31.11283648	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	DISC1	41.82441182	146.8792964	3.511807818	1.812214
PGC	19.81156349	31.11283648	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	HSD11B2	35.22055732	123.6441535	3.510567773	1.811704
ABCG4	9.905781747	15.55641824	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRC24	28.61670282	100.4090105	3.508755399	1.810959
NLRP9	9.905781747	15.55641824	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	C2orf69	193.7130653	679.6279308	3.508425877	1.810824
WASF4P	9.905781747	15.55641824	1.570438219	0.651167	ENSG000002	0.829826533	0	547.0328046	9.095484	TTL	294.9721676	1033.134034	3.502479717	1.808377
ENSG000002	9.905781747	15.55641824	1.570438219	0.651167	LINC00279	0.829826533	0	547.0328046	9.095484	CRYBG3	2533.678842	8864.207029	3.49855194	1.806758
ARHGEF10L	517.3019357	812.2672667	1.57019955	0.650948	ENSG000002	0.829826533	0	547.0328046	9.095484	DCAF13	635.0706742	2216.466671	3.490110252	1.803273
PABPC1L	505.1948691	792.2661575	1.568238725	0.649145	ENSG000002	0.829826533	0	547.0328046	9.095484	ZDHHC13	270.7580344	944.342595	3.487773122	1.802306
ZNF530	51.73019357	81.11560939	1.568051534	0.648973	ENSG000002	0.829826533	0	547.0328046	9.095484	PCDHGB1	84.74946605	295.4182459	3.485782975	1.801483
DEF8	145.284799	227.7904099	1.567888806	0.648823	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF706	607.5546138	2117.717313	3.485641068	1.801424
CFI	41.82441182	65.55919115	1.567486267	0.648453	ENSG000002	0.829826533	0	547.0328046	9.095484	BEX2	373.1177791	1298.678525	3.480612818	1.799341
TUFM	832.0856667	1303.405614	1.566431999	0.647482	ENSG000002	0.829826533	0	547.0328046	9.095484	PROSER3	116.6680961	405.7851748	3.478116026	1.798306
TRIM8	684.5995829	1072.281686	1.5662903	0.647352	ENSG000002	0.829826533	0	547.0328046	9.095484	CIBAR1	74.84368431	259.7357049	3.470375722	1.795092
OPA3	117.7687385	184.4546734	1.566244792	0.64731	ENSG000002	0.829826533	0	547.0328046	9.095484	TPI1	450.1627483	1561.733536	3.469264265	1.79463
LRRC17	53.9314784	84.44912759	1.565859682	0.646955	ENSG000002	0.829826533	0	547.0328046	9.095484	ADAMTS4	22.01284833	76.34404107	3.468158229	1.79417
SMIM29	75.94432672	118.8954823	1.565561081	0.64668	ENSG000002	0.829826533	0	547.0328046	9.095484	CHRM3	5.503212081	19.08601027	3.468158229	1.79417
MED11	97.95717505	153.3418369	1.565396683	0.646528	ENSG000002	0.829826533	0	547.0328046	9.095484	MAGEE2	5.503212081	19.08601027	3.468158229	1.79417
UQCC3	97.95717505	153.3418369	1.565396683	0.646528	ENSG000002	0.829826533	0	547.0328046	9.095484	DNAJC3-DT	5.503212081	19.08601027	3.468158229	1.79417
MTPN	425.9486151	666.7036389	1.565220816	0.646366	ENSG000002	0.829826533	0	547.0328046	9.095484	RNVU1-27	5.503212081	19.08601027	3.468158229	1.79417
LRSAM1	318.0856583	497.8053837	1.565004176	0.646167	ENSG000002	0.829826533	0	547.0328046	9.095484	PFDN2	150.788011	522.790716	3.467057576	1.793712
ENTR1	210.2227015	328.9071285	1.564565226	0.645762	ENSG000002	0.829826533	0	547.0328046	9.095484	NUP210	1249.229142	4324.226065	3.46151552	1.791404
RBM19	791.3618973	1237.846423	1.564197653	0.645423	ENSG000002	0.829826533	0	547.0328046	9.095484	HSPD1	1278.946488	4424.635076	3.459593594	1.790603
HMOX1	56.13276323	87.78264578	1.563839739	0.645093	ENSG000002	0.829826533	0	547.0328046	9.095484	LIN9	169.4989321	585.8575326	3.456408399	1.789274
PROS1	326.8907976	511.1394565	1.563639785	0.644908	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	79.24625397	273.842756	3.455592439	1.788933
C20orf96	326.8907976	511.1394565	1.563639785	0.644908	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR17HG	13.207709	45.64045934	3.455592439	1.788933
APEX2	248.7451861	388.910456	1.563489377	0.644769	ENSG000002	0.829826533	0	547.0328046	9.095484	COX6C	829.8843819	2867.050673	3.454759163	1.788585
BMP8A	80.34689639	125.5625187	1.562755057	0.644092	ENSG000002	0.829826533	0	547.0328046	9.095484	TBCB	280.6638162	969.237391	3.453374946	1.788007
ITGA3	954.2569749	1491.193806	1.562675301	0.644018	ENSG000002	0.829826533	0	547.0328046	9.095484	FGFR3	41.82441182	144.3898168	3.452285651	1.787552
MCC	394.029985	615.5896932	1.562291492	0.643664	ENSG000002	0.829826533	0	547.0328046	9.095484	PNMA8A	99.05781747	341.8885317	3.451403842	1.787183
C6orf62	1207.404731	1885.660125	1.561746511	0.64316	ENSG000002	0.829826533	0	547.0328046	9.095484	RFWD3	246.5439013	850.5721967	3.449982711	1.786589
DOCK10	1044.509653	1631.20157	1.561691235	0.643109	ENSG000002	0.829826533	0	547.0328046	9.095484	ATOH8	30.81798766	106.2177963	3.446616874	1.785181
SLC25A3	1601.434716	2500.138646	1.561186742	0.642643	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC38A8	7.704496914	26.55444907	3.446616874	1.785181
VAMP5	48.42826632	75.55974574	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	MYBPHL	7.704496914	26.55444907	3.446616874	1.785181
NCF4	12.10706658	18.88993643	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	TSPYL5	430.3511848	1482.070189	3.443862225	1.784027
SCN1B	12.10706658	18.88993643	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	LSM3	155.1905807	534.4082875	3.443561362	1.783901
PSMC2P1	12.10706658	18.88993643	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	CTNNAL1	607.5546138	2091.992691	3.443299817	1.783792
FIGNL2	12.10706658	18.88993643	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	PHLDA1	192.6124229	663.0314002	3.442308603	1.783376
TUBB8	12.10706658	18.88993643	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	NUDCD2	132.07709	453.9151138	3.436743752	1.781042
PPM1M	72.64239948	113.3396186	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	47.3276239	162.6460005	3.436597639	1.780981
PRPH2	36.32119974	56.6698093	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFAF6	258.6509678	888.7442172	3.436075359	1.780762
ZNF554	217.9271984	340.0188558	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	NPIPB6	19.81156349	68.04577574	3.434649454	1.780163
RFPL3S	60.5353329	94.44968217	1.560240568	0.641768	ENSG000002	0.829826533	0	547.0328046	9.095484	TRIM52-AS1	9.905781747	34.02288787	3.434649454	1.780163
FBH1	1107.246271	1726.762425	1.559510716	0.641093	ENSG000002	0.829826533	0	547.0328046	9.095484	REXO5	123.2719506	423.211532	3.433153527	1.779534
TBKBP1	99.05781747	154.4530097	1.559220803	0.640825	ENSG000002	0.829826533	0	547.0328046	9.095484	H2BC14	136.4796596	468.0221648	3.429244813	1.777891
QDPR	151.8886534	236.6797918	1.558245375	0.639922	ENSG000002	0.829826533	0	547.0328046	9.095484	MCM8	72.64239948	248.94796	3.427033823	1.77696
TMC5	1893.104956	2949.052429	1.557786017	0.639497	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	12.10706658	41.49132667	3.427033823	1.77696
ASL	77.04496914	120.006655	1.557618315	0.639342	ENSG000002	0.829826533	0	547.0328046	9.095484	MUC3A	140.8822293	482.1292159	3.422214557	1.77493
ZDHHC6	420.445403	654.4807388	1.556636686	0.638432	ENSG000002	0.829826533	0	547.0328046	9.095484	PANK3	923.4389873	3159.149613	3.421070213	1.774448
ETS2	631.768747	983.3878673	1.556563018	0.638364	ENSG000002	0.829826533	0	547.0328046	9.095484	PLEKHG1	314.7837311	1076.285014	3.419125284	1.773627
VWF	1070.925071	1666.759097	1.556373216	0.638188	ENSG000002	0.829826533	0	547.0328046	9.095484	DPP3	115.5674537	394.1676033	3.410714615	1.770074
TAPT1	278.4625313	433.3573653	1.556250183	0.638074	ENSG000002	0.829826533	0	547.0328046	9.095484	NTHL1	34.11991491	116.1757147	3.404923928	1.767623
MAGT1	669.1905891	1041.168849	1.555862958	0.637715	ENSG000002	0.829826533	0	547.0328046	9.095484	RPF1	646.0770984	2199.040313	3.403680952	1.767096
GNAQ	1004.886526	1563.420033	1.55581749	0.637673	ENSG000002	0.829826533	0	547.0328046	9.095484	IMPA2	137.580302	468.0221648	3.401810854	1.766303
ATP6V1A	700.0085768	1088.949277	1.555622764	0.637492	ENSG000002	0.829826533	0	547.0328046	9.095484	MEX3A	144.1841565	490.4274812	3.401396471	1.766127
CENPX	40.7237694	63.33684569	1.555279549	0.637174	ENSG000002	0.829826533	0	547.0328046	9.095484	FANCC	135.3790172	459.7238995	3.395828312	1.763764
EIF2B5	548.1199233	852.269485	1.554896016	0.636818	ENSG000002	0.829826533	0	547.0328046	9.095484	ICMT	187.1092108	634.817298	3.392763485	1.762461
ACBD4	152.9892959	237.7909645	1.554298052	0.636263	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	11.00642416	37.342194	3.392763485	1.762461
NBEAL2	1971.250568	3063.503221	1.554091231	0.636071	ZBTB7C-AS	0.829826533	0	547.0328046	9.095484	TRMT112P6	6.603854498	22.4053164	3.392763485	1.762461
BAP1	657.0835225	1021.16774	1.554091231	0.636071	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORA23	13.207709	44.8106328	3.392763485	1.762461
H4C5	1423.130644	2211.233736	1.553781267	0.635783	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC28B	8.80513933	29.8737552	3.392763485	1.762461
CCDC85C	296.07281	460.0255108	1.553758046	0.635762	ENSG000002	0.829826533	0	547.0328046	9.095484	TMSB4XP8	8.80513933	29.8737552	3.392763485	1.762461
GCA	381.9229185	593.3662386	1.553628258	0.635641	ENSG000002	0.829826533	0	547.0328046	9.095484	DUSP28	8.80513933	29.8737552	3.392763485	1.762461
ZNF559	472.1755966	733.3740027	1.553180656	0.635226	ENSG000002	0.829826533	0	547.0328046	9.095484	TREX2	4.402569665	14.9368776	3.392763485	1.762461
HCST	14.30835141	22.22345463	1.553180656	0.635226	ENSG000002	0.829826533	0	547.0328046	9.095484	SULT1A2	4.402569665	14.9368776	3.392763485	1.762461
PDILT	14.30835141	22.22345463	1.553180656	0.635226	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-TL1	4.402569665	14.9368776	3.392763485	1.762461
FUT8	304.8779493	473.3595836	1.552619941	0.634705	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	14.9368776	3.392763485	1.762461
SDHD	161.7944352	251.1250373	1.55212407	0.634244	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	14.9368776	3.392763485	1.762461
COL5A2	2062.603888	3200.177467	1.551523046	0.633685	ENSG000002	0.829826533	0	547.0328046	9.095484	HOXC11	2.201284833	7.4684388	3.392763485	1.762461
USP46	358.8094277	556.6975385	1.551513131	0.633676	ENSG000002	0.829826533	0	547.0328046	9.095484	NT5DC4	2.201284833	7.4684388	3.392763485	1.762461
FANCC	135.3790172	210.0116462	1.551286533	0.633465	ENSG000002	0.829826533	0	547.0328046	9.095484	CPA5	2.201284833	7.4684388	3.392763485	1.762461
MRPL16	303.7773069	471.1372381	1.550929669	0.633133	ENSG000002	0.829826533	0	547.0328046	9.095484	LMO1	2.201284833	7.4684388	3.392763485	1.762461
ENSG000001	30.81798766	47.78042745	1.550407119	0.632647	ENSG000002	0.829826533	0	547.0328046	9.095484	MAGEA6	2.201284833	7.4684388	3.392763485	1.762461
ZNF490	156.2912231	242.2356555	1.549899288	0.632174	ENSG000002	0.829826533	0	547.0328046	9.095484	BCRP3	2.201284833	7.4684388	3.392763485	1.762461
SEMA6A	250.9464709	388.910456	1.549774558	0.632058	ENSG000002	0.829826533	0	547.0328046	9.095484	PSG3	2.201284833	7.4684388	3.392763485	1.762461
NTMT1	47.3276239	73.33740027	1.549568608	0.631867	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL23AP53	2.201284833	7.4684388	3.392763485	1.762461
NAGK	205.8201318	318.9065739	1.549443055	0.63175	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
AP2B1	1821.563199	2822.378738	1.549426745	0.631735	ENSG000002	0.829826533	0	547.0328046	9.095484	CDPF1P1	2.201284833	7.4684388	3.392763485	1.762461
AMBRA1	893.721642	1384.521223	1.549163809	0.63149	ENSG000002	0.829826533	0	547.0328046	9.095484	PPIAP19	2.201284833	7.4684388	3.392763485	1.762461
MARK4	327.9914401	507.8059383	1.548229241	0.630619	ENSG000002	0.829826533	0	547.0328046	9.095484	MTATP6P19	2.201284833	7.4684388	3.392763485	1.762461
DCLK2	344.5010763	533.3629111	1.548218417	0.630609	ENSG000002	0.829826533	0	547.0328046	9.095484	PTGES3P3	2.201284833	7.4684388	3.392763485	1.762461
PNMA8B	33.01927249	51.11394565	1.548003387	0.630409	ENSG000002	0.829826533	0	547.0328046	9.095484	DARS1-AS1	2.201284833	7.4684388	3.392763485	1.762461
ENSG000002	33.01927249	51.11394565	1.548003387	0.630409	ENSG000002	0.829826533	0	547.0328046	9.095484	SDHCP3	2.201284833	7.4684388	3.392763485	1.762461
RFX8	16.50963624	25.55697282	1.548003387	0.630409	ENSG000002	0.829826533	0	547.0328046	9.095484	SNORA71B	2.201284833	7.4684388	3.392763485	1.762461
LRRC51	99.05781747	153.3418369	1.548003387	0.630409	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
AFG3L2	737.4304189	1141.174395	1.547501115	0.62994	ENSG000002	0.829826533	0	547.0328046	9.095484	EXO5-DT	2.201284833	7.4684388	3.392763485	1.762461
TBC1D13	202.5182046	313.3507103	1.547271816	0.629727	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
ADIPOR1	614.1584683	950.0526854	1.546917831	0.629397	LINC01622	0.829826533	0	547.0328046	9.095484	FLNB-AS1	2.201284833	7.4684388	3.392763485	1.762461
ABCA10	136.4796596	211.122819	1.546917831	0.629397	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
CNBP	1147.97004	1775.654025	1.546777322	0.629266	ENSG000002	0.829826533	0	547.0328046	9.095484	GIHCG	2.201284833	7.4684388	3.392763485	1.762461
CYB5D1	86.95075089	134.4519005	1.546299476	0.62882	ENSG000002	0.829826533	0	547.0328046	9.095484	C17orf113	2.201284833	7.4684388	3.392763485	1.762461
CLPTM1L	35.22055732	54.44746384	1.545900121	0.628447	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
FBXO43	35.22055732	54.44746384	1.545900121	0.628447	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
ZNF213-AS1	35.22055732	54.44746384	1.545900121	0.628447	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
ZNF689	161.7944352	250.0138646	1.545256265	0.627846	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461

ADAMTS10	217.9271984	336.6853376	1.544944092	0.627555	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
SIGMAR1	217.9271984	336.6853376	1.544944092	0.627555	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
C1QTNF1	91.35332055	141.1189369	1.544759797	0.627383	ENSG000002	0.829826533	0	547.0328046	9.095484	SENP3-EIF4A	2.201284833	7.4684388	3.392763485	1.762461
TRMT61A	110.0642416	170.0094279	1.544638162	0.627269	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
FAM166B	18.71092108	28.89049102	1.544044299	0.626714	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
PPIE	336.7965794	520.0288383	1.544044299	0.626714	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
PRMT5	731.9272068	1130.062668	1.543954996	0.626631	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	7.4684388	3.392763485	1.762461
CDC14A	588.8436927	908.9392943	1.543600289	0.626299	ENSG000002	0.829826533	0	547.0328046	9.095484	SKP2	285.0663858	966.7479114	3.391307988	1.761842
FBXW8	337.8972218	521.140011	1.542303332	0.625087	ENSG000002	0.829826533	0	547.0328046	9.095484	JAG2	282.865101	958.449646	3.388363014	1.760588
C14orf93	100.1584599	154.4530097	1.542086508	0.624884	ENSG000002	0.829826533	0	547.0328046	9.095484	MALL	64.93790256	219.9040313	3.3863741	1.759741
SCAI	260.8522527	402.2445288	1.542039697	0.62484	ENSG000002	0.829826533	0	547.0328046	9.095484	GALNT16	115.5674537	390.8482972	3.381992807	1.757874
TSPYL5	430.3511848	663.3701207	1.541462285	0.6243	ENSG000002	0.829826533	0	547.0328046	9.095484	MSMO1	219.0278408	740.2052678	3.379503103	1.756811
ADCY5	767.1477642	1182.287786	1.541147405	0.624005	ENSG000002	0.829826533	0	547.0328046	9.095484	MCUR1	211.3233439	713.6508187	3.377056247	1.755766
SDR42E1	83.64882364	128.8960368	1.540918703	0.623791	ENSG000002	0.829826533	0	547.0328046	9.095484	C5orf24	140.8822293	475.4906036	3.375092842	1.754927
RNF32	20.91220591	32.22400921	1.540918703	0.623791	ENSG000002	0.829826533	0	547.0328046	9.095484	VANGL2	69.34047223	234.0110824	3.374812356	1.754807
PDE6B	20.91220591	32.22400921	1.540918703	0.623791	ENSG000002	0.829826533	0	547.0328046	9.095484	MDK	1633.353346	5511.707835	3.374473655	1.754662
C19orf48P	188.2098532	290.0160829	1.540918703	0.623791	ENSG000002	0.829826533	0	547.0328046	9.095484	HNRNPAB	932.2441266	3145.042561	3.373625504	1.7543
TSPYL4	278.4625313	428.9126743	1.540288642	0.623201	ENSG000002	0.829826533	0	547.0328046	9.095484	C12orf75	141.9828717	478.8099098	3.372307547	1.753736
GLOD4	440.2569665	677.8153662	1.539590325	0.622547	ENSG000002	0.829826533	0	547.0328046	9.095484	TAGLN2P1	18.71092108	63.06681654	3.37058856	1.753001
ERICH6	46.22698148	71.11505481	1.538388459	0.62142	ENSG000002	0.829826533	0	547.0328046	9.095484	MAPK1IP1L	560.2269899	1887.025537	3.368323146	1.752031
ADAR	5963.280612	9172.730898	1.538202123	0.621245	ENSG000002	0.829826533	0	547.0328046	9.095484	TPPP3	16.50963624	55.59837774	3.367631904	1.751734
ALDH4A1	307.0792341	472.2484109	1.537871527	0.620935	ENSG000002	0.829826533	0	547.0328046	9.095484	TNFRSF25	28.61670282	96.25987787	3.363765507	1.750077
EFNA5	214.6252712	330.0183012	1.537648849	0.620726	ENSG000002	0.829826533	0	547.0328046	9.095484	DMC1	14.30835141	48.12993894	3.363765507	1.750077
SEL1L3	705.5117888	1084.504586	1.537188468	0.620294	ENSG000002	0.829826533	0	547.0328046	9.095484	TIPIN	95.75589022	321.9726949	3.362432266	1.749505
WDR55	195.9143501	301.1278102	1.537038048	0.620153	ENSG000002	0.829826533	0	547.0328046	9.095484	HAL	26.41541799	88.79143907	3.361349008	1.74904
ELOC	149.6873686	230.0127554	1.536621009	0.619761	ENSG000002	0.829826533	0	547.0328046	9.095484	L2HGDH	188.2098532	632.3278184	3.359695615	1.748331
ERV3-1	1001.584599	1538.974233	1.536539434	0.619685	ENSG000002	0.829826533	0	547.0328046	9.095484	EEIG2	175.0021442	587.5171856	3.357199927	1.747258
MFNG	25.31477557	38.8910456	1.536298257	0.619458	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC18	158.4925079	531.0889814	3.350877516	1.744539
NBR2	25.31477557	38.8910456	1.536298257	0.619458	ENSG000002	0.829826533	0	547.0328046	9.095484	DLL4	39.62312699	132.7722453	3.350877516	1.744539
NFXL1	533.8115719	820.0454758	1.536207754	0.619373	ENSG000002	0.829826533	0	547.0328046	9.095484	WSB2	516.2012932	1726.869016	3.345340352	1.742153
NID2	726.4239948	1115.617422	1.535766206	0.618959	ENSG000002	0.829826533	0	547.0328046	9.095484	DCAF12L2	23.11349074	77.1738676	3.338910096	1.739377
TSC22D3	365.4132822	561.1422294	1.5356372	0.618837	ENSG000002	0.829826533	0	547.0328046	9.095484	TFAP2A-AS2	7.704496914	25.72462253	3.338910096	1.739377
PLEKHG1	314.7837311	483.3601382	1.535530876	0.618738	ENSG000002	0.829826533	0	547.0328046	9.095484	PABIR2	252.0471133	841.4441048	3.338439761	1.739174
HOXD8	52.83083598	81.11560939	1.535383794	0.618599	ENSG000002	0.829826533	0	547.0328046	9.095484	PPP1R1A	20.91220591	69.7054288	3.333241319	1.736926
ATP13A3	1721.404739	2642.368755	1.53500725	0.618245	ENSG000002	0.829826533	0	547.0328046	9.095484	CRYBG2	20.91220591	69.7054288	3.333241319	1.736926
ATP6V0D1	458.9678876	704.4835117	1.534929852	0.618173	ENSG000002	0.829826533	0	547.0328046	9.095484	JUND	563.5289171	1877.897445	3.332388788	1.736557
CNGB3	27.51606041	42.22456379	1.534542488	0.617809	ENSG000002	0.829826533	0	547.0328046	9.095484	ANKRD13B	68.23982981	227.3724701	3.331961272	1.736372
PRCP	949.8544053	1456.747451	1.533653413	0.616972	ENSG000002	0.829826533	0	547.0328046	9.095484	MKRN2OS	13.207709	43.98080627	3.329934532	1.735494
MYPOP	118.869381	182.232328	1.533046832	0.616402	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	13.207709	43.98080627	3.329934532	1.735494
SPIN4	89.15203572	136.674246	1.533046832	0.616402	LINC02993	0.829826533	0	547.0328046	9.095484	GALE	45.12633907	150.1986025	3.328402118	1.73483
NDUFB8	29.71734524	45.55808199	1.533046832	0.616402	ENSG000002	0.829826533	0	547.0328046	9.095484	VDAC3	543.7173537	1808.192016	3.325610272	1.733619
RPS21	614.1584683	941.1633035	1.532443746	0.615834	ENSG000002	0.829826533	0	547.0328046	9.095484	PDIK1L	147.4860838	490.4274812	3.325245804	1.733461
COX7C	369.8158519	566.698093	1.532379129	0.615773	ENSG000002	0.829826533	0	547.0328046	9.095484	PERP	698.9079343	2323.514293	3.324492654	1.733134
C14orf119	184.9079259	283.3490465	1.532379129	0.615773	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	24.21413316	80.49317374	3.324222809	1.733017
SFI1	342.2997915	524.4735292	1.532205226	0.61561	ENSG000002	0.829826533	0	547.0328046	9.095484	FSBP	53.9314784	179.2425312	3.323523414	1.732714
MAF1	599.8501169	918.9398489	1.531949104	0.615368	ENSG000002	0.829826533	0	547.0328046	9.095484	PCSK1N	51.73019357	171.7740924	3.320577028	1.731434
SNX21	195.9143501	300.0166375	1.531366321	0.614819	ENSG000002	0.829826533	0	547.0328046	9.095484	SNRPB2	390.7280578	1296.189045	3.317368741	1.730039
DENND5A	1129.259119	1728.98477	1.531078865	0.614549	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF410	11.00642416	36.51236747	3.317368741	1.730039
MARCKSL1	190.411138	291.1272556	1.528940264	0.612532	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC00910	11.00642416	36.51236747	3.317368741	1.730039
NET1	1304.261263	1993.44388	1.528408407	0.61203	ENSG000002	0.829826533	0	547.0328046	9.095484	PADI2	5.503212081	18.25618373	3.317368741	1.730039
DNMT3A	593.2462624	906.7169489	1.528398924	0.612021	ENSG000002	0.829826533	0	547.0328046	9.095484	PRC1	5.503212081	18.25618373	3.317368741	1.730039
RTN4IP1	79.24625397	121.1178277	1.528372909	0.611997	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	18.25618373	3.317368741	1.730039
BCL7C	165.0963624	252.23621	1.527812038	0.611467	ENSG000002	0.829826533	0	547.0328046	9.095484	RPA2	253.1477557	838.1247987	3.310812676	1.727185
ALG3	377.5203488	576.6986476	1.527596193	0.611263	ENSG000002	0.829826533	0	547.0328046	9.095484	UTP18	223.4304105	739.3754412	3.309197882	1.726482
SLC25A17	126.5738779	193.3440553	1.52751941	0.611191	ENSG000002	0.829826533	0	547.0328046	9.095484	TTC32	57.23340565	189.2004496	3.30576955	1.724986
RGP1	637.271959	973.3873127	1.527428438	0.611105	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC6A1	14.30835141	47.3001124	3.30576955	1.724986
SGSM1	255.3490406	390.0216287	1.527405891	0.611083	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-CYB	7736.415544	25539.57122	3.301215023	1.722997
ERAL1	264.1541799	403.3557015	1.526970732	0.610672	ENSG000002	0.829826533	0	547.0328046	9.095484	ERRFI1	657.0835225	2169.166558	3.301203704	1.722992
USH2A	88.0513933	134.4519005	1.526970732	0.610672	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	17.61027866	58.08785734	3.298520055	1.721819
SMPD1	586.6424079	895.6052215	1.526662937	0.610382	ENSG000002	0.829826533	0	547.0328046	9.095484	VKORC1	8.80513933	29.04392867	3.298520055	1.721819
ZNF57	137.580302	210.0116462	1.526465948	0.610195	ENSG000002	0.829826533	0	547.0328046	9.095484	OXR1	1234.920791	4070.299146	3.296000177	1.720716
SRSF6	1010.389738	1542.307751	1.526448353	0.610179	ENSG000002	0.829826533	0	547.0328046	9.095484	SLF1	192.6124229	634.817298	3.295827386	1.720641
SYNE4	94.6552478	144.4524551	1.526090295	0.60984	CNTNAP3P7	0.829826533	0	547.0328046	9.095484	SAMD12	122.1713082	402.4658687	3.294274855	1.719961
ENKD1	47.3276239	72.22622754	1.526090295	0.60984	ENSG000002	0.829826533	0	547.0328046	9.095484	GNG4	86.95075089	286.290154	3.292555281	1.719208
TAF1B	213.5246288	325.5736103	1.524759051	0.608581	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC24A4	12.10706658	39.8316736	3.28995247	1.718067
RMI1	267.4561072	407.8003924	1.524737636	0.608561	ENSG000002	0.829826533	0	547.0328046	9.095484	ZDBF2	12.10706658	39.8316736	3.28995247	1.718067
PRRC2B	4692.038621	7153.730045	1.524652848	0.608481	ENSG000002	0.829826533	0	547.0328046	9.095484	LETM2	30.81798766	101.2388371	3.285056708	1.715918
SFMBT2	442.4582514	674.481848	1.524396586	0.608238	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	15.40899383	50.61941854	3.285056708	1.715918
CEP152	222.3297681	338.9076831	1.524346856	0.608191	ENSG000002	0.829826533	0	547.0328046	9.095484	ACTL6A	347.8030036	1141.84131	3.283011642	1.71502
ASB1	228.9336226	348.9082377	1.524058518	0.607918	ENSG000002	0.829826533	0	547.0328046	9.095484	USB1	86.95075089	285.4603275	3.283011642	1.71502
PPM1K	352.2055732	536.6964293	1.523815834	0.607689	ENSG000002	0.829826533	0	547.0328046	9.095484	RFK	93.55460539	307.0358173	3.281888861	1.714526
ATXN7L3	300.4753796	457.8031654	1.523596262	0.607481	ENSG000002	0.829826533	0	547.0328046	9.095484	USP51	156.2912231	512.8327976	3.281264216	1.714252
PEX13	266.3554647	405.578047	1.522694672	0.606627	ENSG000002	0.829826533	0	547.0328046	9.095484	HSPA14	144.1841565	473.001124	3.280534668	1.713931
SLC35B2	550.3212081	837.8242395	1.522427679	0.606374	ENSG000002	0.829826533	0	547.0328046	9.095484	PARK7	670.2912315	2198.210487	3.279485668	1.71347
URB2	344.5010763	524.4735292	1.522414777	0.606361	ENSG000002	0.829826533	0	547.0328046	9.095484	GMNN	148.5867262	487.1081751	3.27827517	1.712937
PCED1A	628.4668197	956.7197218	1.52230745	0.60626	ENSG000002	0.829826533	0	547.0328046	9.095484	PITX1	48.42826632	158.4968679	3.272817301	1.710533
ITPKB	775.9529035	1181.176614	1.522227197	0.606184	ENSG000002	0.829826533	0	547.0328046	9.095484	RBBP4	1559.610304	5104.263007	3.272781024	1.710517
ZMYM3	1061.019289	1614.533979	1.521682023	0.605667	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF250	232.2355498	759.291278	3.269487719	1.709065
ROR2	460.06853	700.0388208	1.521596839	0.605586	ENSG000002	0.829826533	0	547.0328046	9.095484	CTHRC1	137.580302	449.7659811	3.269116105	1.708901
ZDHHC18	234.4368347	356.6864468	1.521460769	0.605457	ENSG000002	0.829826533	0	547.0328046	9.095484	POLR2H	193.7130653	633.157645	3.268533509	1.708643
EMC8	78.14561156	118.8954823	1.521460769	0.605457	ENSG000002	0.829826533	0	547.0328046	9.095484	PIDD1	52.83083598	172.6039189	3.267105578	1.708013
ECHDC2	919.0364176	1397.855296	1.521000985	0.605021	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC39A3	49.52890873	161.816174	3.267105578	1.708013
SH3GLB1	680.1970133	1034.501813	1.520885556	0.604912	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-TA	16.50963624	53.93872467	3.267105578	1.708013
GNL3L	615.2591107	935.6074399	1.520672223	0.604709	ENSG000002	0.829826533	0	547.0328046	9.095484	SNHG7	16.50963624	53.93872467	3.267105578	1.708013
MTX2	521.7045053	792.2661575	1.518610918	0.602752	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	16.50963624	53.93872467	3.267105578	1.708013
PIGC	141.9828717	215.5675099	1.518264191	0.602423	ENSG000002	0.829826533	0	547.0328046	9.095484	RASGEF1C	6.603854498	21.57548987	3.267105578	1.708013
TXNRD1	806.7708911	1224.51235	1.517794412	0.601976	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR1915HG	6.603854498	21.57548987	3.267105578	1.708013
B4GALT5	548.1199233	831.1572031	1.516378383	0.60063	ENSG000002	0.829826533	0	547.0328046	9.095484	KCTD21-AS1	6.603854498	21.57548987	3.267105578	1.708013
VPS37C	514.0000084	778.9320847	1.515432047	0.599729	ENSG000002	0.829826533	0	547.0328046	9.095484	ARL11	3.301927249	10.78774493	3.267105578	1.708013
SOGA1	1759.927224	2666.814555	1.515298201	0.599602	ENSG000002	0.829826533	0	547.0328046	9.095484	STARD6	3.301927249	10.78774493	3.267105578	1.708013
CAT	826.5824546	1252.291668	1.515023288	0.59934	ENSG000002	0.829826533	0	547.0328046	9.095484	VWC2L	3.301927249	10.78774493	3.267105578	1.708013
SKOR1	33.01927249	50.00277291	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC4A5	3.301927249	10.78774493	3.267105578	1.708013
PLEKHA7	409.4389789	620.0343841	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
FOXC1	354.406858	536.6964293	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
HNRNPCP2	41.82441182	63.33684569	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPS36P1	3.301927249	10.78774493	3.267105578	1.708013
ABL1	1096.239847	1660.092061	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
TMEM40	17.61027866	26.66814555	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
TPRG1	17.61027866	26.66814555	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
PRRT3-AS1	17.61027866	26.66814555	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	10.78774493	3.267105578	1.708013
ADAM7	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HSBP1	19.81156349	64.7264696	3.267105578	1.708013
FAHD2A	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MMP25	9.905781747	32.3632348	3.267105578	1.708013

FCRLB	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SLC25A48	9.905781747	32.3632348	3.267105578	1.708013
STK32A	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FBLN2	945.4518356	3085.295051	3.263302196	1.706333
IFNA10	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CPPED1	91.35332055	297.9077255	3.261049775	1.705336
ENSG000002	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FSIP1	27.51606041	89.6212656	3.257052946	1.703567
ZNF807P	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PRIM1	103.4603871	336.9095725	3.256411288	1.703283
GAS2L2	8.80513933	13.33407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	DCLRE1A	783.6574004	2551.71659	3.256163457	1.703173
HAMP	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CKAP5	3267.807334	10631.73755	3.253477472	1.701983
HAVCR1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	URB2	344.5010763	1120.26582	3.251849986	1.701261
CENPA	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	RAC3	35.22055732	114.5160616	3.25139834	1.70106
TPO	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MCRIP2	35.22055732	114.5160616	3.25139834	1.70106
OPRD1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SRC	17.61027866	57.2580308	3.25139834	1.70106
DEFB129	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	17.61027866	57.2580308	3.25139834	1.70106
ADAMTS19	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	RBP1	123.2719506	400.8062156	3.25139834	1.70106
SEPTIN14	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SHISAL1	31.91863007	103.7283167	3.249773453	1.700339
CHTF8	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	H2BC8	989.4775323	3214.74799	3.248934802	1.699967
TREX2	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HTATIP2	146.3854414	475.4906036	3.248209652	1.699645
LRRC14B	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	14.30835141	46.47028587	3.247773593	1.699451
RNFT1P3	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SCNN1G	25.31477557	82.1528268	3.245252029	1.698331
TRAV6	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	VDAC2P5	94.6552478	307.0358173	3.243727363	1.697653
TAX1BP3	4.402569665	6.667036389	1.514351139	0.5987	PTCSC1	0.829826533	0	547.0328046	9.095484	ITGA10	80.34689639	260.5655315	3.243006802	1.697332
SLC9A7P1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	EGFL7	88.0513933	285.4603275	3.241973997	1.696873
OBI1-AS1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01572	11.00642416	35.68254093	3.241973997	1.696873
ENSG000002	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ANAPC11	48.42826632	156.8372148	3.238546963	1.695347
PSME2P1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CFAP119	18.71092108	60.57733694	3.237539012	1.694898
NHLRC4	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	COL5A3	90.25267814	292.0989397	3.236457308	1.694415
LINC02616	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ARL17B	161.7944352	523.6205426	3.236332213	1.69436
TRABD-AS1	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	WSCD1	7.704496914	24.894796	3.231203319	1.692072
UBE2Q2P13.	4.402569665	6.667036389	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	24.894796	3.231203319	1.692072
SCTR	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FAM222A	61.63597531	199.158368	3.231203319	1.692072
CCNB1IP1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PLP2	574.5353413	1855.492129	3.229552641	1.691334
GOLGA8UP	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	OSGIN2	592.14562	1909.430853	3.22459677	1.689119
GFUS	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CDK2AP2	80.34689639	258.9058784	3.222350707	1.688114
MYF6	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PPP1R14B	96.85653263	312.0147765	3.221411794	1.687693
HOXC11	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TSEN54	81.44753881	262.2251845	3.219559343	1.686863
ZSCAN10	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HPCAL1	151.8886534	488.7678282	3.217935093	1.686135
CACNG6	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NUP160	78.14561156	251.4374396	3.217550347	1.685963
FBP2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HTR1D	16.50963624	53.10889814	3.216842415	1.685645
REG4	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	EMP2	326.8907976	1051.390218	3.216334707	1.685418
DNAJC5B	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PDCL3	278.4625313	895.3828295	3.215451735	1.685021
TRIM55	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PLOD1	666.9893043	2143.441936	3.213607657	1.684194
SPINT4	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SAC3D1	55.03212081	176.7530516	3.211816099	1.683389
CPA5	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FNDC1	29.71734524	95.43005134	3.21125762	1.683138
FAM170A	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNK17	93.55460539	300.3972051	3.210929102	1.682991
SERPINB7	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FRAS1	3868.758093	12421.67338	3.210765077	1.682917
SERPINB12	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NENF	138.6809445	444.7870219	3.20726848	1.681345
GCSAML	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PGP	79.24625397	253.9269192	3.204276625	1.679999
MRGPRX1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TMPRSS13	35.22055732	112.8564085	3.204276625	1.679999
KRT78	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HES4	30.81798766	98.74935747	3.204276625	1.679999
KISS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	RPL37AP1	8.80513933	28.21410213	3.204276625	1.679999
S100Z	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	28.21410213	3.204276625	1.679999
PMS2P6	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	28.21410213	3.204276625	1.679999
TRHR	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PCSK9	4.402569665	14.10705107	3.204276625	1.679999
CA5A	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TEX41	4.402569665	14.10705107	3.204276625	1.679999
OR51V1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SNTG2-AS1	4.402569665	14.10705107	3.204276625	1.679999
ZBTB12BP	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CAPN10-DT	4.402569665	14.10705107	3.204276625	1.679999
GKN2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	14.10705107	3.204276625	1.679999
LINC02875	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC28A-A	4.402569665	14.10705107	3.204276625	1.679999
MEIS3P2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MMP17	13.207709	42.3211532	3.204276625	1.679999
HMX3	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TVP23CP2	13.207709	42.3211532	3.204276625	1.679999
RPL10AP2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	BRK1	213.5246288	683.7770635	3.202333461	1.679124
SPRR2B	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	IRX5	55.03212081	175.9232251	3.19673715	1.6766
OR51D1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CMAS	469.9743118	1501.986025	3.195889622	1.676218
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	POMP	336.7965794	1076.285014	3.195653043	1.676111
TRBV7-6	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRFIP1P1	88.0513933	281.3111948	3.194852282	1.675749
KRTAP3-1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF418	201.4175622	643.1155634	3.192946814	1.674889
FIRRE	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MGAT4A	804.5696063	2568.313121	3.192157771	1.674532
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF22	392.9293426	1253.867892	3.191077265	1.674044
RBM38-AS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KLF16	57.23340565	182.5618373	3.189777636	1.673456
TUBBP9	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	DCK	267.4561072	853.0616763	3.189538969	1.673348
RBM7P1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SI	58.33404806	185.8811435	3.186494846	1.67197
SIRPB3P	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MOCS1	59.43469048	189.2004496	3.18333364	1.670538
FLVCR2-AS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CNOT8	188.2098532	599.1347571	3.18333364	1.670538
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	GMPS	1639.9572	5220.438721	3.183277418	1.670513
RPS27AP12	2.201284833	3.333518194	1.514351139	0.5987	ZNF75CP	0.829826533	0	547.0328046	9.095484	PLEKHG5	144.1841565	458.894073	3.18269416	1.670249
CFLAR-AS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MTHFD1	899.2248541	2861.241887	3.181898136	1.669888
BOD1L2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	GEN1	256.449683	815.7194823	3.180816887	1.669397
ATP5PDP2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SNRPCP2	15.40899383	48.95976547	3.17734993	1.667824
FBXW4P1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LRATD1	408.3383364	1295.359219	3.172269422	1.665515
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFB1	181.6059987	575.8996142	3.171148631	1.665005
LINC01517	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TRMT112	192.6124229	610.7523286	3.170887524	1.664887
GBX2-AS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MMD	85.85010847	272.1831029	3.17044565	1.664686
HSPA8P1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SMC3	1387.910087	4399.74028	3.170047052	1.664504
SLC16A12-A	2.201284833	3.333518194	1.514351139	0.5987	C8orf44-SGK	0.829826533	0	547.0328046	9.095484	ARL5B	224.5310529	711.1613391	3.167318417	1.663262
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	SNORA74C-	0.829826533	0	547.0328046	9.095484	ENSG000002	16.50963624	52.2790716	3.166579253	1.662925
SNORA71B	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PAXBP1-AS1	22.01284833	69.7054288	3.166579253	1.662925
PTCSC2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	RWDD4P2	11.00642416	34.8527144	3.166579253	1.662925
RC3H1-IT1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF670-ZNF	5.503212081	17.4263572	3.166579253	1.662925
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	DNAJB6P7	5.503212081	17.4263572	3.166579253	1.662925
SNAI1P1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01569	5.503212081	17.4263572	3.166579253	1.662925
RPL34P18	2.201284833	3.333518194	1.514351139	0.5987	F8A2	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	17.4263572	3.166579253	1.662925
ATP5MC1P3	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	17.4263572	3.166579253	1.662925
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ACE	71.54175706	226.5426436	3.166579253	1.662925
ELFN2.1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	FBXO45	115.5674537	365.1236747	3.159398801	1.65965
RN7SL735P	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	DCLK1	125.4732355	395.8272564	3.154674819	1.657491
IFT122P2	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HMGN2	316.9850159	999.9409727	3.154537037	1.657428
SUMO2P17	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MSANTD3	198.1156349	624.8593796	3.154013462	1.657189
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000001	12.10706658	38.17202053	3.152871117	1.656666
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SRRM2-AS1	12.10706658	38.17202053	3.152871117	1.656666
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	COX20P1	12.10706658	38.17202053	3.152871117	1.656666
PGAM1P8	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SIVA1	104.5610295	329.4411337	3.150706675	1.655675
TBX5-AS1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KRT10-AS1	37.42184215	117.8353677	3.148839313	1.65482

ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LRFN4	37.42184215	117.8353677	3.148839313	1.65482
HIF1A-AS3	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF572	106.7623144	336.079746	3.147924883	1.654401
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CFAP20DC	82.54818122	259.7357049	3.146473988	1.653736
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KIF20B	213.5246288	671.3296655	3.144038556	1.652619
FSCN1P1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MAGEE1	64.93790256	204.1373272	3.143577466	1.652407
MIR4728	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	20.74566333	3.141447671	1.65143
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	6.603854498	20.74566333	3.141447671	1.65143
CYP4F24P	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-TE	13.207709	41.49132667	3.141447671	1.65143
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	13.207709	41.49132667	3.141447671	1.65143
PLA2G4C-AS	2.201284833	3.333518194	1.514351139	0.5987	PPIAL4C	0.829826533	0	547.0328046	9.095484	WDR31	113.3661689	355.9955828	3.140227692	1.650869
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	SMANTIS	0.829826533	0	547.0328046	9.095484	CRNDE	110.0642416	345.2078379	3.136421355	1.649119
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	N4BP3	27.51606041	86.30195947	3.136421355	1.649119
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PLEKHB1	69.34047223	217.4145517	3.135463962	1.648679
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	HMGN1	319.1863007	1000.770799	3.135381428	1.648641
KMT2CP1	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SLIT2	1582.723795	4958.213537	3.132709291	1.647411
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	H2BC18	795.764467	2492.798906	3.132583836	1.647353
LINC01126	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TATDN2	14.30835141	44.8106328	3.131781679	1.646984
LINC02666	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CEBPG	147.4860838	461.3835526	3.128319233	1.645388
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	COX8A	51.73019357	161.816174	3.128079809	1.645277
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF486	104.5610295	326.9516541	3.126897808	1.644732
ENSG000002	2.201284833	3.333518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CTNND2	396.2312699	1238.931014	3.126787582	1.644681
STOML2	297.1734524	450.0249562	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CDC34	150.788011	471.3414 71	3.125855084	1.644251
SRGAP2C	88.0513933	133.3407278	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NUP155	1488.068547	4650.347893	3.125089837	1.643898
CACNA1I	22.01284833	33.33518194	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ERVMER34-	75.94432672	237.3303885	3.12505751	1.643883
SLC2A14	11.00642416	16.66759097	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-ATP6	6394.732439	19983.88258	3.125053748	1.643881
FAM86JP	11.00642416	16.66759097	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	B3GALNT1	91.35332055	285.4603275	3.124794214	1.643761
ADGRL3	85.85010847	130.0072096	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PPM1D	344.5010763	1076.285014	3.124184764	1.64348
TRIM59	37.42184215	56.6698093	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MEP1B	7.704496914	24.06496947	3.123496542	1.643162
MMP21	28.61670282	43.33573653	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TTLL7-IT1	7.704496914	24.06496947	3.123496542	1.643162
EGFL6	15.40899383	23.33462736	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	DPP3-DT	7.704496914	24.06496947	3.123496542	1.643162
PCDHGC5	39.62312699	60.0033275	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR762HG	7.704496914	24.06496947	3.123496542	1.643162
CPNE5	19.81156349	30.00166375	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NARF-IT1	7.704496914	24.06496947	3.123496542	1.643162
IL20RB	19.81156349	30.00166375	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	7.704496914	24.06496947	3.123496542	1.643162
ANKRD39	19.81156349	30.00166375	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MRPL18	238.8394043	745.184227	3.12002213	1.641556
ALG6	316.9850159	480.02662	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	EFHD2	305.9785917	954.3005134	3.118847328	1.641013
SLC13A3	211.3233439	320.0177467	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CASP8AP2	24.21413316	75.51421454	3.118600779	1.640899
ZBTB32	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PSMA6P1	16.50963624	51.44924507	3.11631609	1.639842
GATA1	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	BMP8B	74.84368431	233.1812559	3.115576926	1.639499
PRSS16	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CFAP221	58.33404806	181.7320108	3.115367728	1.639402
IDI2	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	CMTM6	250.9464709	781.6965944	3.114993375	1.639229
FCN2	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SNRPF	454.5653179	1415.684066	3.114368849	1.63894
ZG16B	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PLCZ1	25.31477557	78.83352067	3.114130735	1.63883
PITX2	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	LRRC45	75.94432672	236.500562	3.114130735	1.63883
SDR9C7	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-ND2	8914.10293	27757.69754	3.113908125	1.638726
TUBB8B	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ATF3	84.74946605	263.8848376	3.113705017	1.638632
AMBN	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	E2F6	77.04496914	239.8198681	3.112725864	1.638179
MRAP-AS1	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ESM1	8.80513933	27.3842756	3.110033195	1.63693
ENSG000002	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	8.80513933	27.3842756	3.110033195	1.63693
ENSG000002	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	WDR90	249.8458285	776.7176352	3.108787687	1.636352
NEPRO-AS1	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	GLRX3	259.7516102	807.421217	3.108435848	1.636189
SMKR1	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFS6	316.9850159	985.0040951	3.107415322	1.635715
TRMT112P6	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PPIF	63.83726015	198.3285415	3.106783421	1.635422
ENSG000002	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	PSMB2	738.5310613	2293.640538	3.105679176	1.634909
PDCL3P2	6.603854498	10.00055458	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	KHK	37.42184215	116.1757147	3.104489463	1.634356
KCNIP2	26.41541799	40.00221833	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	SYK	282.865101	877.9564723	3.103799193	1.634035
S1PR5	26.41541799	40.00221833	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ARHGAP39	294.9721676	914.4688398	3.100186866	1.632355
ZNF451-AS1	13.207709	20.00110917	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	AIFM2	108.9635992	337.7393991	3.099561702	1.632064
ALDH1A3-AS	13.207709	20.00110917	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	TARS1-DT	9.905781747	30.70358173	3.099561702	1.632064
SLC22A3	127.6745203	193.3440553	1.514351139	0.5987	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	9.905781747	30.70358173	3.099561702	1.632064
SQLE	670.2912315	1014.500704	1.513522266	0.59791	ENSG000002	0.829826533	0	547.0328046	9.095484	TXN	369.8158519	1145.990443	3.098813739	1.631716
MYO10	2027.383331	3065.725566	1.512158811	0.59661	ENSG000002	0.829826533	0	547.0328046	9.095484	DDOST	1516.68525	4694.328699	3.095123857	1.629997
WDR25	190.411138	287.7937374	1.511433314	0.595917	ENSG000002	0.829826533	0	547.0328046	9.095484	ZFP69	75.94432672	234.8409089	3.092277186	1.62867
GALNS	181.6059987	274.4596647	1.511291844	0.595782	ENSG000002	0.829826533	0	547.0328046	9.095484	BLMH	342.2997915	1058.02883	3.090942082	1.628047
UQCC2	148.5867262	224.4568918	1.510612001	0.595133	LINC01512	0.829826533	0	547.0328046	9.095484	H2AZ2	523.9057902	1618.991567	3.090234155	1.627716
CCT3	1799.550351	2717.928501	1.510337569	0.594871	ENSG000002	0.829826533	0	547.0328046	9.095484	PDIA6	2410.406892	7447.693137	3.089807436	1.627517
CHPF2	412.7409061	623.3679023	1.51031287	0.594847	ENSG000002	0.829826533	0	547.0328046	9.095484	USP37	693.4047223	2141.782283	3.088791025	1.627042
STRADB	235.5374771	355.5752741	1.509633535	0.594198	ENSG000002	0.829826533	0	547.0328046	9.095484	FKBP3	681.2976557	2102.780436	3.086434274	1.625941
CYP2R1	113.3661689	171.1206006	1.509450327	0.594023	ENSG000002	0.829826533	0	547.0328046	9.095484	POLR3K	84.74946605	261.395358	3.084330441	1.624957
HSDL1	108.9635992	164.4535643	1.509252314	0.593834	ENSG000002	0.829826533	0	547.0328046	9.095484	MAP3K9-DT	12.10706658	37.342194	3.084330441	1.624957
DHX40	576.7366261	870.0482487	1.508571173	0.593183	ENSG000002	0.829826533	0	547.0328046	9.095484	ZFP91	133.1777324	410.764134	3.084330441	1.624957
PIK3CA	974.0685384	1468.970351	1.508076992	0.59271	ENSG000002	0.829826533	0	547.0328046	9.095484	DYNC1LI1	342.2997915	1055.53935	3.083669277	1.624648
FAM110A	82.54818122	124.4513459	1.50762069	0.592273	ENSG000002	0.829826533	0	547.0328046	9.095484	C14orf132	63.83726015	196.6688884	3.080785234	1.623298
RALGAPA1P	160.6937928	242.2356555	1.507436294	0.592097	ENSG000002	0.829826533	0	547.0328046	9.095484	TRAPPC3	154.0899383	474.6607771	3.080413831	1.623124
MOB3B	75.94432672	114.4507913	1.507035433	0.591713	ENSG000002	0.829826533	0	547.0328046	9.095484	CHMP1A	118.869381	365.9535012	3.078618718	1.622283
NBPF12	813.3747456	1225.623523	1.506837444	0.591524	ENSG000002	0.829826533	0	547.0328046	9.095484	KHDC1	13.207709	40.66150013	3.078618718	1.622283
RPS6KA5	730.8265644	1101.172177	1.506748975	0.591439	ENSG000002	0.829826533	0	547.0328046	9.095484	PRELID1P6	13.207709	40.66150013	3.078618718	1.622283
ZSCAN31	145.284799	218.9010281	1.506702901	0.591395	ENSG000002	0.829826533	0	547.0328046	9.095484	SCN5A	39.62312699	121.9845004	3.078618718	1.622283
ARHGAP6	1565.113516	2357.908536	1.506541546	0.59124	ENSG000002	0.829826533	0	547.0328046	9.095484	SNRPD1	219.0278408	673.8191451	3.076408654	1.621247
MME	1057.717362	1593.421697	1.506472101	0.591174	ENSG000002	0.829826533	0	547.0328046	9.095484	CECR2	305.9785917	941.0232888	3.07545467	1.6208
HMGCL	348.903646	525.584702	1.506389251	0.591095	ENSG000002	0.829826533	0	547.0328046	9.095484	TPM3	321.3875856	988.3234012	3.075176036	1.620669
CRY2	333.4946521	502.2500746	1.506021375	0.590742	ENSG000002	0.829826533	0	547.0328046	9.095484	INTS7	783.6574004	2408.986426	3.074030087	1.620131
RPL7P9	127.6745203	192.2328825	1.505647972	0.590385	ENSG000002	0.829826533	0	547.0328046	9.095484	FRAT2	14.30835141	43.98080627	3.073785722	1.620017
ZNF117	1003.785884	1511.194915	1.505495285	0.590238	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	71.54175706	219.9040313	3.073785722	1.620017
IFNAR1	780.3554732	1174.509577	1.505095585	0.589855	ENSG000002	0.829826533	0	547.0328046	9.095484	GULP1	288.3683131	886.2547376	3.073343004	1.619809
SERGEF	175.0021442	263.3479374	1.504826918	0.589598	ENSG000002	0.829826533	0	547.0328046	9.095484	MT-RNR2	68877.10177	211619.8731	3.072427086	1.619379
PYROXD2	172.8008594	260.0144192	1.504705591	0.589481	ENSG000002	0.829826533	0	547.0328046	9.095484	IL22RA1	15.40899383	47.3001124	3.069643153	1.618071
WDR11	1261.336209	1897.883025	1.504660702	0.589438	ENSG000002	0.829826533	0	547.0328046	9.095484	PGAM5	93.55460539	287.1199805	3.069009584	1.617773
CREB3	226.7323378	341.1300286	1.504549514	0.589332	ENSG000002	0.829826533	0	547.0328046	9.095484	PSPH	62.73661773	192.5197557	3.068698357	1.617627
ATP5F1A	1024.69809	1541.196579	1.504049431	0.588852	ENSG000002	0.829826533	0	547.0328046	9.095484	PUF60	62.73661773	192.5197557	3.068698357	1.617627
PILRA	51.73019357	77.7820912	1.50361106	0.588431	ENSG000002	0.829826533	0	547.0328046	9.095484	BLOC1S5	31.91863007	97.91953094	3.06778614	1.617198
HACL1	706.6124313	1062.281131	1.503343395	0.588175	ENSG000002	0.829826533	0	547.0328046	9.095484	CCDC171	236.6381195	725.2683902	3.064884016	1.615832
SIX5	252.0471133	378.9099014	1.503329661	0.588161	ENSG000002	0.829826533	0	547.0328046	9.095484	VBP1	152.9892959	468.8519914	3.064606505	1.615702
RILPL1	297.1734524	446.691438	1.503133724	0.587973	ENSG000002	0.829826533	0	547.0328046	9.095484	RNF128	51.73019357	158.4968679	3.063914069	1.615376
BNIP3	425.9486151	640.0354933	1.502611983	0.587473	ENSG000002	0.829826533	0	547.0328046	9.095484	KRAS	792.4625397	2427.24261	3.06291148	1.614904
NFKB1	1077.528926	1618.97867	1.502492074	0.587357	ENSG000002	0.829826533	0	547.0328046	9.095484	RPS7P1	17.61027866	53.93872467	3.06291148	1.614904
LPGAT1	886.0171451	1331.184932	1.50243699	0.587304	ENSG000002	0.829826533	0	547.0328046	9.095484	SF3B6	649.3790256	1987.434547	3.06051546	1.613775
TBC1D14	803.4689639	1206.733586	1.501904418	0.586793	ENSG000002	0.829826533	0	547.0328046	9.095484	CHST7	18.71092108	57.2580308	3.060139614	1.613597
PRDX4	534.9122143	803.3778848	1.501887344	0.586777	ENSG000002	0.829826533	0	547.0328046	9.095484	SEH1L	621.8629652	1901.132588	3.057156792	1.612191
EMB	526.107075	790.0438121	1.501678745	0.586576	ENSG000002	0.829826533	0	547.0328046	9.095484	TGFA	20.91220591	63.89664307	3.055471209	1.611395
EXOC7	2558.993618	3842.435305	1.501541574	0.586444	ENSG000002	0.829826533	0	547.0328046	9.095484	SQLE	670.2912315	2045.522405	3.051692024	1.609609
CLASP2	1929.426156	2896.827311	1.5013932	0.586302	XNDC1N-ZI	0.829826533	0	547.0328046	9.095484	KIF3C	122.1713082	372.5921135	3.049751361	1.608692

ZFAND5	770.4496914	1156.730813	1.501370987	0.586281	PYDC5	0.829826533	0	547.0328046	9.095484	METTL5	397.3319123	1211.546739	3.049205718	1.608433
LRRC28	126.5738779	190.0105371	1.501182869	0.5861	ENSG000002	0.829826533	0	547.0328046	9.095484	UBL5	303.7773069	925.2565847	3.045838394	1.606839
PRXL2A	547.0192809	821.1566485	1.501147541	0.586066	ENSG000002	0.829826533	0	547.0328046	9.095484	SOCS4	463.3704573	1410.705107	3.044443349	1.606178
ODC1	4332.128551	6502.582824	1.501013358	0.585937	ENSG000002	0.829826533	0	547.0328046	9.095484	UBA2	1341.683105	4083.576371	3.043622115	1.605789
RUVBL1	475.4775238	713.3728936	1.50032937	0.585279	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF879	132.07709	401.6360421	3.040921346	1.604509
TRPV6	274.0599617	411.1339106	1.500160433	0.585117	ENSG000002	0.829826533	0	547.0328046	9.095484	DANT2	33.01927249	100.4090105	3.040921346	1.604509
ZNF585A	344.5010763	516.6953201	1.499836592	0.584805	ENSG000002	0.829826533	0	547.0328046	9.095484	COX7B	336.7965794	1024.005942	3.04042857	1.604275
CDK17	943.2505508	1414.522887	1.499625827	0.584603	ENSG000002	0.829826533	0	547.0328046	9.095484	NUDT1	34.11991491	103.7283167	3.04011065	1.604124
SGMS2	369.8158519	554.475193	1.499327815	0.584316	ENSG000002	0.829826533	0	547.0328046	9.095484	GPR161	138.6809445	421.551879	3.039724604	1.603941
SLC66A3	143.0835141	214.4563372	1.498819333	0.583826	ENSG000002	0.829826533	0	547.0328046	9.095484	GCLM	115.5674537	351.0166236	3.03733112	1.602804
EVC	490.8865177	735.5963482	1.498505911	0.583525	ENSG000002	0.829826533	0	547.0328046	9.095484	NDUFB11	293.8715252	892.0635234	3.035556177	1.601961
JMJD4	170.5995745	255.5697282	1.498067794	0.583103	ENSG000002	0.829826533	0	547.0328046	9.095484	F11R	42.92505424	130.2827657	3.03512175	1.601754
IZUMO4	34.11991491	51.11394565	1.498067794	0.583103	ENSG000002	0.829826533	0	547.0328046	9.095484	VDAC2	392.9293426	1192.460728	3.034796843	1.6016
HSP90AB3P	34.11991491	51.11394565	1.498067794	0.583103	ENSG000002	0.829826533	0	547.0328046	9.095484	NNT	867.306224	2628.890458	3.031098342	1.599841
NKAP	270.7580344	405.578047	1.497935409	0.582975	ENSG000002	0.829826533	0	547.0328046	9.095484	MVB12B	336.7965794	1020.686636	3.030573048	1.599591
ZBTB37	436.9550393	654.4807388	1.497821698	0.582866	ENSG000002	0.829826533	0	547.0328046	9.095484	NSD2	836.4882364	2534.290233	3.02967827	1.599165
ELF2	1032.402586	1545.641269	1.497130373	0.5822	ENSG000002	0.829826533	0	547.0328046	9.095484	PDCD5	182.7066411	553.4942978	3.029415321	1.599039
FDXACB1	31.91863007	47.78042745	1.496944804	0.582021	ENSG000002	0.829826533	0	547.0328046	9.095484	ARMC1	255.3490406	773.3983291	3.028788858	1.598741
UBQLN4	538.2141416	805.6002303	1.496802421	0.581884	ENSG000002	0.829826533	0	547.0328046	9.095484	CLDND1	191.5117804	580.0487468	3.028788858	1.598741
NIT1	344.5010763	515.5841474	1.496611137	0.581699	ENSG000002	0.829826533	0	547.0328046	9.095484	CYC1	287.2676707	868.8283804	3.024455827	1.596676
EEF2	19077.435	28550.47216	1.496557171	0.581647	ENSG000002	0.829826533	0	547.0328046	9.095484	PLEKHA5	1704.895103	5154.052599	3.02309074	1.596024
CSTF2	235.5374771	352.2417559	1.49548072	0.580609	ENSG000002	0.829826533	0	547.0328046	9.095484	OSBPL11	509.5974387	1540.158046	3.022303349	1.595648
CCNI	5033.23777	7527.084083	1.495475562	0.580604	ENSG000002	0.829826533	0	547.0328046	9.095484	RAB6B	138.6809445	419.0623993	3.021773474	1.595396
PIP5K1C	752.8394127	1125.617977	1.495163454	0.580303	ENSG000002	0.829826533	0	547.0328046	9.095484	PSMD2	967.4646839	2922.649051	3.020936163	1.594996
EMC3	432.5524696	646.7025297	1.495084585	0.580227	ENSG000002	0.829826533	0	547.0328046	9.095484	CNTLN	166.1970049	502.0450527	3.020782794	1.594922
SEMA3G	27.51606041	41.11339106	1.494159791	0.579334	ENSG000002	0.829826533	0	547.0328046	9.095484	H3-3A	1037.905799	3134.254817	3.019787365	1.594447
TOR3A	215.7259136	322.2400921	1.493747723	0.578937	ENSG000002	0.829826533	0	547.0328046	9.095484	TTF2	209.1220591	631.4979919	3.019757909	1.594433
MAP1B	8517.87166	12722.92777	1.49367451	0.578866	ENSG000002	0.829826533	0	547.0328046	9.095484	LRP2BP	25.31477557	76.34404107	3.015789765	1.592536
CMTR1	760.5439097	1135.618532	1.493166295	0.578375	ENSG000002	0.829826533	0	547.0328046	9.095484	F8A1	25.31477557	76.34404107	3.015789765	1.592536
RNF19B	379.7216336	566.698093	1.492404021	0.577638	ENSG000002	0.829826533	0	547.0328046	9.095484	ZWILCH	124.372593	375.0815931	3.015789765	1.592536
LIPE	25.31477557	37.77987287	1.492404021	0.577638	ENSG000002	0.829826533	0	547.0328046	9.095484	SUV39H1	46.22698148	139.4108576	3.015789765	1.592536
TMCC2	25.31477557	37.77987287	1.492404021	0.577638	ENSG000002	0.829826533	0	547.0328046	9.095484	PLCXD3	7.704496914	23.23514293	3.015789765	1.592536
YWHAEP1	25.31477557	37.77987287	1.492404021	0.577638	ENSG000002	0.829826533	0	547.0328046	9.095484	C16orf96	7.704496914	23.23514293	3.015789765	1.592536
SIAH2	347.8030036	518.9176656	1.491987304	0.577235	ENSG000002	0.829826533	0	547.0328046	9.095484	MEFV	12.10706658	36.51236747	3.015789765	1.592536
E2F3	147.4860838	220.0122008	1.491748884	0.577005	ENSG000002	0.829826533	0	547.0328046	9.095484	LDHB	12.10706658	36.51236747	3.015789765	1.592536
LAMP1	2018.578191	3010.166929	1.491231275	0.576504	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	12.10706658	36.51236747	3.015789765	1.592536
ZMYND19	119.9700234	178.8988098	1.491195923	0.57647	ENSG000002	0.829826533	0	547.0328046	9.095484	SRD5A1	66.03854498	199.158368	3.015789765	1.592536
NT5E	214.6252712	320.0177467	1.49105343	0.576332	ENSG000002	0.829826533	0	547.0328046	9.095484	TMEM187	15.40899383	46.47028587	3.015789765	1.592536
ACTR10	668.0899467	995.6107674	1.490234619	0.575539	ENSG000002	0.829826533	0	547.0328046	9.095484	ANAPC10	39.62312699	119.4950208	3.015789765	1.592536
FBXL5	1491.370474	2222.345463	1.490136423	0.575444	ENSG000002	0.829826533	0	547.0328046	9.095484	CA13	38.52248457	116.1757147	3.015789765	1.592536
FHIP2B	409.4389789	610.0338296	1.489926121	0.575241	ENSG000002	0.829826533	0	547.0328046	9.095484	ODAD3	11.00642416	33.19306133	3.015789765	1.592536
SLC41A1	340.0985066	506.6947655	1.489847076	0.575164	ENSG000002	0.829826533	0	547.0328046	9.095484	TRPC7	9.905781747	29.8737552	3.015789765	1.592536
ABCB9	90.25267814	134.4519005	1.489727544	0.575049	ENSG000002	0.829826533	0	547.0328046	9.095484	TYMSOS	6.603854498	19.9158368	3.015789765	1.592536
PSMD11	833.1863091	1241.179941	1.489678752	0.575001	ENSG000002	0.829826533	0	547.0328046	9.095484	PCP4	6.603854498	19.9158368	3.015789765	1.592536
PPIL1	152.9892959	227.7904099	1.488930377	0.574276	ENSG000002	0.829826533	0	547.0328046	9.095484	SOWAHA	6.603854498	19.9158368	3.015789765	1.592536
CLPP	171.7002169	255.5697282	1.488464795	0.573825	ENSG000002	0.829826533	0	547.0328046	9.095484	FPGT-TNNI3	6.603854498	19.9158368	3.015789765	1.592536
COA8	85.85010847	127.7848641	1.488464795	0.573825	ENSG000002	0.829826533	0	547.0328046	9.095484	RN7SL648P	6.603854498	19.9158368	3.015789765	1.592536
ENSG000002	41.82441182	62.22567296	1.487783576	0.573165	ENSG000002	0.829826533	0	547.0328046	9.095484	TCF12-DT	6.603854498	19.9158368	3.015789765	1.592536
TTC30A	439.1563241	653.3695661	1.487783576	0.573165	ENSG000002	0.829826533	0	547.0328046	9.095484	BPIFA2	5.503212081	16.59653067	3.015789765	1.592536
MRPL34	62.73661773	93.33850944	1.487783576	0.573165	HERC2P3	0.829826533	0	547.0328046	9.095484	SDS	5.503212081	16.59653067	3.015789765	1.592536
SLC9A1	578.937911	861.1588669	1.487480523	0.572871	SORD2P	0.829826533	0	547.0328046	9.095484	MRAP2	5.503212081	16.59653067	3.015789765	1.592536
ELOF1	102.3597447	152.2306642	1.48721223	0.572611	ASNSP1	0.829826533	0	547.0328046	9.095484	OR1J2	5.503212081	16.59653067	3.015789765	1.592536
TUSC2	81.44753881	121.1178277	1.487065533	0.572468	ENSG000002	0.829826533	0	547.0328046	9.095484	HNRNPA3P1	5.503212081	16.59653067	3.015789765	1.592536
MAPK3	526.107075	782.2656029	1.486894285	0.572302	ENSG000002	0.829826533	0	547.0328046	9.095484	TMCO1-AS1	5.503212081	16.59653067	3.015789765	1.592536
METTL17	321.3875856	477.8042745	1.486691758	0.572106	CYP4Z2P	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	16.59653067	3.015789765	1.592536
NDFIP2	179.4047139	266.6814555	1.486479646	0.5719	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	16.59653067	3.015789765	1.592536
DUT	179.4047139	266.6814555	1.486479646	0.5719	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	5.503212081	16.59653067	3.015789765	1.592536
LMO2	39.62312699	58.89215477	1.4863076	0.571733	CYP4F29P	0.829826533	0	547.0328046	9.095484	CHTF8	4.402569665	13.27722453	3.015789765	1.592536
DGKD	744.0342734	1105.616868	1.485975724	0.571411	ENSG000002	0.829826533	0	547.0328046	9.095484	TMIE	4.402569665	13.27722453	3.015789765	1.592536
AKR1C2	58.33404806	86.67147305	1.485778476	0.571219	ENSG000002	0.829826533	0	547.0328046	9.095484	OR2AG2	4.402569665	13.27722453	3.015789765	1.592536
KHK	37.42184215	55.55863657	1.48465798	0.570131	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	13.27722453	3.015789765	1.592536
MYH8	18.71092108	27.77931829	1.48465798	0.570131	LPAL2.1	0.829826533	0	547.0328046	9.095484	ENSG000002	4.402569665	13.27722453	3.015789765	1.592536
GRIN1	18.71092108	27.77931829	1.48465798	0.570131	ENSG000002	0.829826533	0	547.0328046	9.095484	TTC5	3.301927249	9.9579184	3.015789765	1.592536
SEPTIN4-AS1	18.71092108	27.77931829	1.48465798	0.570131	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNE2	3.301927249	9.9579184	3.015789765	1.592536
MAP3K14	332.3940097	493.3606928	1.484264693	0.569748	ENSG000002	0.829826533	0	547.0328046	9.095484	EXOC5P1	3.301927249	9.9579184	3.015789765	1.592536
GPI	969.6659688	1438.968687	1.483983901	0.569475	ENSG000002	0.829826533	0	547.0328046	9.095484	OR13C3	3.301927249	9.9579184	3.015789765	1.592536
FBXO21	802.3683215	1190.065995	1.483191651	0.568705	ENSG000002	0.829826533	0	547.0328046	9.095484	C2CD4B	3.301927249	9.9579184	3.015789765	1.592536
BCKDHB	514.0000084	762.2644938	1.483004827	0.568523	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR548U	3.301927249	9.9579184	3.015789765	1.592536
P2RY14	51.73019357	76.67091847	1.482130902	0.567673	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
DNAJB12	510.6980812	756.7086301	1.481714261	0.567267	ENSG000002	0.829826533	0	547.0328046	9.095484	CSRP1-AS1	3.301927249	9.9579184	3.015789765	1.592536
ADGRA3	1330.676681	1971.220426	1.481366927	0.566929	ENSG000002	0.829826533	0	547.0328046	9.095484	TEX46	3.301927249	9.9579184	3.015789765	1.592536
OAT	433.653112	642.2578388	1.481040539	0.566611	SLC25A51P4	0.829826533	0	547.0328046	9.095484	COA6-AS1	3.301927249	9.9579184	3.015789765	1.592536
JPH1	332.3940097	492.24952	1.480921754	0.566495	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC01424	3.301927249	9.9579184	3.015789765	1.592536
MSTO2P	16.50963624	24.44580009	1.480698892	0.566278	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF709	3.301927249	9.9579184	3.015789765	1.592536
MSNP1	16.50963624	24.44580009	1.480698892	0.566278	YWHAEP7	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
CHMP4C	231.1349074	342.2412013	1.480698892	0.566278	ENSG000002	0.829826533	0	547.0328046	9.095484	EMSY-DT	3.301927249	9.9579184	3.015789765	1.592536
CSF1R	1012.591023	1498.972015	1.480333107	0.565922	ENSG000002	0.829826533	0	547.0328046	9.095484	BAZ1A-AS1	3.301927249	9.9579184	3.015789765	1.592536
LMBR1L	193.7130653	286.6825647	1.479934068	0.565533	LRRC37A5P	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
METTL6	193.7130653	286.6825647	1.479934068	0.565533	CROCCP3	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
HSDL2	449.0621058	664.4812934	1.47970912	0.565314	ENSG000002	0.829826533	0	547.0328046	9.095484	FRG1HP	3.301927249	9.9579184	3.015789765	1.592536
DISP1	449.0621058	664.4812934	1.47970912	0.565314	CTSLP2	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
MAP1LC3B	158.4925079	234.4574463	1.479296715	0.564911	GLUD1P2	0.829826533	0	547.0328046	9.095484	ENSG000002	3.301927249	9.9579184	3.015789765	1.592536
B3GNT9	78.14561156	115.5619641	1.478802991	0.56443	ENSG000002	0.829826533	0	547.0328046	9.095484	ASIC4	2.201284833	6.638612267	3.015789765	1.592536
PDLIM5	3547.370508	5245.846465	1.478798579	0.564426	ENSG000002	0.829826533	0	547.0328046	9.095484	ALOX12	2.201284833	6.638612267	3.015789765	1.592536
FBXO36	61.63597531	91.11616398	1.47829516	0.563934	ENSG000002	0.829826533	0	547.0328046	9.095484	FKBP1B	2.201284833	6.638612267	3.015789765	1.592536
CASK	1429.734499	2113.450535	1.47821189	0.563853	ENSG000002	0.829826533	0	547.0328046	9.095484	TRHR	2.201284833	6.638612267	3.015789765	1.592536
ELK1	287.2676707	424.4679834	1.477604432	0.56326	ENSG000002	0.829826533	0	547.0328046	9.095484	TEX36	2.201284833	6.638612267	3.015789765	1.592536
APOLD1	45.12633907	66.67036389	1.477415746	0.563076	ENSG000002	0.829826533	0	547.0328046	9.095484	NUTM2B	2.201284833	6.638612267	3.015789765	1.592536
OSTC	280.6638162	414.4674288	1.476739804	0.562416	ENSG000002	0.829826533	0	547.0328046	9.095484	GRM3	2.201284833	6.638612267	3.015789765	1.592536
FLYWCH2	147.4860838	217.7898554	1.476680713	0.562358	FLJ43315	0.829826533	0	547.0328046	9.095484	IBA57-DT	2.201284833	6.638612267	3.015789765	1.592536
PDCL3	278.4625313	411.1339106	1.476442481	0.562125	ENSG000002	0.829826533	0	547.0328046	9.095484	ASPDH	2.201284833	6.638612267	3.015789765	1.592536
EEPD1	247.6445437	365.5758286	1.476211925	0.5619	ENSG000002	0.829826533	0	547.0328046	9.095484	LINC02656	2.201284833	6.638612267	3.015789765	1.592536
RBL2	1685.083539	2486.804573	1.475775245	0.561473	ENSG000002	0.829826533	0	547.0328046	9.095484	C1orf220	2.201284833	6.638612267	3.015789765	1.592536
EI24	400.6338395	591.1438931	1.475521623	0.561225	ABCC13	0.829826533	0	547.0328046	9.095484	RBBP4P4	2.201284833	6.638612267	3.015789765	1.592536
LYG1	28.61670282	42.22456379	1.475521623	0.561225	CLEC4OP	0.829826533	0	547.0328046	9.095484	LINC01208	2.201284833	6.638612267	3.015789765	1.592536
MAFF	28.61670282	42.22456379	1.475521623	0.561225	AOC4P	0.829826533	0	547.0328046	9.095484	NPM1P39	2.201284833	6.638612267	3.015789765	1.592536
AURKC	14.30835141	21.1122819	1.475521623	0.561225	ALOX12P2.1	0.829826533	0	547.0328046	9.095484	NHSL1-AS1	2.201284833	6.638612267	3.015789765	1.592536
RGSL1	14.30835141	21.1122819	1.475521623	0.561225	ENSG000002	0.829826533	0	547.0328046	9.095484	IL9RP3	2.201284833	6.638612267	3.015789765	1.592536
CDCA5	14.30835141	21.1122819	1.475521623	0.561225	ENSG000002	0.829826533	0	547.0328046	9.095484	RPS3P3	2.201284833	6.638612267	3.015789765	1.592536
CLCN1	14.30835141	21.1122819	1.475521623	0.561225	SIGLEC17P	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
TMEM240	14.30835141	21.1122819	1.475521623	0.561225	ZNF300P1	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536

PDXP	14.30835141	21.1122819	1.475521623	0.561225	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
C1GALT1C11	42.92505424	63.33684569	1.475521623	0.561225	WASH2P	0.829826533	0	547.0328046	9.095484	SPAAR	2.201284833	6.638612267	3.015789765	1.592536
MSTO1	71.54175706	105.5614095	1.475521623	0.561225	FCGR1BP	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
IARS2	1554.107092	2292.349345	1.475026629	0.560741	ENSG000002	0.829826533	0	547.0328046	9.095484	EIF2S2P3	2.201284833	6.638612267	3.015789765	1.592536
TMEM98	267.4561072	394.4663197	1.474882454	0.5606	ENSG000002	0.829826533	0	547.0328046	9.095484	KCNMB2-AS	2.201284833	6.638612267	3.015789765	1.592536
SNRPD2	556.9250626	821.1566485	1.474447289	0.560174	LSP1P5	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
ZSWIM6	1266.839421	1867.881362	1.474442088	0.560169	ENSG000002	0.829826533	0	547.0328046	9.095484	CAP1P1	2.201284833	6.638612267	3.015789765	1.592536
KDM4A	275.1606041	405.578047	1.473968442	0.559706	ENSG000002	0.829826533	0	547.0328046	9.095484	EAF1-AS1	2.201284833	6.638612267	3.015789765	1.592536
PRPF6	1627.850134	2399.021927	1.473736358	0.559478	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
PDE4A	136.4796596	201.1222644	1.473642775	0.559387	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
SRSF8	215.7259136	317.7954012	1.473144306	0.558899	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
EEIG2	175.0021442	257.7920737	1.473079515	0.558835	KRT16P3	0.829826533	0	547.0328046	9.095484	PPP1R12A-A	2.201284833	6.638612267	3.015789765	1.592536
ZNF773	67.13918739	98.8943731	1.472975425	0.558733	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
ENSG000002	26.41541799	38.8910456	1.47228583	0.558058	ENSG000002	0.829826533	0	547.0328046	9.095484	AKAP1-DT	2.201284833	6.638612267	3.015789765	1.592536
BTBD2	1169.982889	1722.317734	1.472087969	0.557864	ENSG000002	0.829826533	0	547.0328046	9.095484	MIR544B	2.201284833	6.638612267	3.015789765	1.592536
SPRYD3	375.319064	552.2528475	1.471422319	0.557211	ENSG000002	0.829826533	0	547.0328046	9.095484	RHOT1P1	2.201284833	6.638612267	3.015789765	1.592536
SGTA	373.1177791	548.9193293	1.471169052	0.556963	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
DERL2	154.0899383	226.6792372	1.471083964	0.55688	ENSG000002	0.829826533	0	547.0328046	9.095484	NAPA-AS1	2.201284833	6.638612267	3.015789765	1.592536
C11orf96	89.15203572	131.1183823	1.470727856	0.55653	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
NR2F6	163.99572	241.1244827	1.470309607	0.55612	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
AGAP4	250.9464709	368.9093468	1.470071866	0.555887	ENSG000002	0.829826533	0	547.0328046	9.095484	CDC37L1-DT	2.201284833	6.638612267	3.015789765	1.592536
DYNC2LI1	337.8972218	496.694211	1.469956481	0.555773	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
NIT2	260.8522527	383.3545923	1.469623469	0.555447	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
KATNIP	1566.214158	2301.238727	1.469300168	0.555129	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
SEC24C	2091.220591	3072.392602	1.469186281	0.555017	ADIPINT	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
ANKS1A	1015.89295	1492.304978	1.468958888	0.554794	ENSG000002	0.829826533	0	547.0328046	9.095484	ENSG000002	2.201284833	6.638612267	3.015789765	1.592536
YJU2	145.284799	213.3451644	1.468461711	0.554306	ENSG000002	0.829826533	0	547.0328046	9.095484	ZNF781.1	2.201284833	6.638612267	3.015789765	1.592536
SLC35A5	399.5331971	586.6992022	1.468461711	0.554306	P2RY8	0.829826533	0	547.0328046	9.095484	PAX7	1.100642416	3.319306133	3.015789765	1.592536
REEP2	24.21413316	35.55752741	1.468461711	0.554306	CD99P1	0.829826533	0	547.0328046	9.095484	OSM	1.100642416	3.319306133	3.015789765	1.592536
HSD17B1	12.10706658	17.7787637	1.468461711	0.554306	CALML3	1215.695871	2.222345463	547.0328046	9.095484	PRODH	1.100642416	3.319306133	3.015789765	1.592536
TNFAIP6	12.10706658	17.7787637	1.468461711	0.554306	DIAPH3	760.1211046	2.222345463	342.0355283	8.418002	MYL7	1.100642416	3.319306133	3.015789765	1.592536
LINC00511	12.10706658	17.7787637	1.468461711	0.554306	EXO1	304.5463377	1.111172731	274.0765042	8.098435	CYP2C18	1.100642416	3.319306133	3.015789765	1.592536
UGT1A8	12.10706658	17.7787637	1.468461711	0.554306	ORC6	287.9498071	1.111172731	259.1404549	8.01759	GABRA4	1.100642416	3.319306133	3.015789765	1.592536
PSG11	12.10706658	17.7787637	1.468461711	0.554306	LCAL1	263.8848376	1.111172731	237.4831834	7.891682	NKX3-2	1.100642416	3.319306133	3.015789765	1.592536
SIGLEC5.1	12.10706658	17.7787637	1.468461711	0.554306	PBK	517.8117568	2.222345463	233.0023687	7.864201	CCKBR	1.100642416	3.319306133	3.015789765	1.592536
EXOC2	778.1541883	1142.285568	1.467942453	0.553795	GRP	512.0029711	2.222345463	230.38856	7.847925	GNAT1	1.100642416	3.319306133	3.015789765	1.592536
CAPN2	967.4646839	1420.078751	1.467835234	0.55369	NR0B2	252.2672661	1.111172731	227.0279489	7.826726	C10orf95	1.100642416	3.319306133	3.015789765	1.592536
PKN1	713.2162858	1046.724713	1.467611907	0.553471	ENSG000002	237.3303885	1.111172731	213.5855046	7.73867	HOXC12	1.100642416	3.319306133	3.015789765	1.592536
PFKL	1559.610304	2287.904654	1.466972005	0.552841	BTBD17	916.1284928	4.444690926	206.11748	7.687323	AIPL1	1.100642416	3.319306133	3.015789765	1.592536
TMEM267	175.0021442	256.680901	1.466730034	0.552603	CAMK2N2	197.4987149	1.111172731	177.7389863	7.473616	PLAAT2	1.100642416	3.319306133	3.015789765	1.592536
CFAP43	255.3490406	374.4652105	1.466483718	0.552361	CDCA8	393.3377768	2.222345463	176.9921839	7.467542	SLC39A5	1.100642416	3.319306133	3.015789765	1.592536
BCL10	160.6937928	235.5686191	1.465947222	0.551833	NUF2	365.9535012	2.222345463	164.6699432	7.363433	CMTM2	1.100642416	3.319306133	3.015789765	1.592536
LIPA	482.0813783	706.7058572	1.465947222	0.551833	CHST1	2146.761242	13.33407278	160.9981645	7.3309	RXRG	1.100642416	3.319306133	3.015789765	1.592536
VPS25	309.280519	453.3584744	1.46584879	0.551736	CLSPN	5717.504815	35.55752741	160.7959055	7.329087	AMT	1.100642416	3.319306133	3.015789765	1.592536
RELA	1023.597447	1500.083187	1.465501103	0.551394	TFCP2L1	2304.428283	14.44524551	159.5284955	7.31767	ENSG000001	1.100642416	3.319306133	3.015789765	1.592536
CR1L	34.11991491	50.00277291	1.465501103	0.551394	NEIL3	350.1867971	2.222345463	157.5753198	7.299898	STAR	1.100642416	3.319306133	3.015789765	1.592536
GPAM	373.1177791	546.6969839	1.465212902	0.55111	LMO3	5230.39664	34.44635467	151.8418041	7.246425	EXTL1	1.100642416	3.319306133	3.015789765	1.592536
ZNF133	383.0235609	561.1422294	1.46503319	0.550933	FAM111B	2833.027785	18.88993643	149.9755065	7.228583	PGLYRP2	1.100642416	3.319306133	3.015789765	1.592536
IGSF9	202.5182046	296.6831193	1.464970124	0.550871	LINC01608	164.3056536	1.111172731	147.8668878	7.208155	NAXE	1.100642416	3.319306133	3.015789765	1.592536
HMCN2	202.5182046	296.6831193	1.464970124	0.550871	FST	1478.750882	10.00055458	147.8668878	7.208155	CAMP	1.100642416	3.319306133	3.015789765	1.592536
PREB	212.4239863	311.1283648	1.464657406	0.550563	LHFPL4	161.816174	1.111172731	145.6264804	7.186129	SOHLH1	1.100642416	3.319306133	3.015789765	1.592536
ZFYVE9	1165.580319	1706.761315	1.464301763	0.550213	GOLGA7B	160.1565209	1.111172731	144.1328755	7.171256	AHSP	1.100642416	3.319306133	3.015789765	1.592536
STOML1	44.02569665	64.44801842	1.463872768	0.54979	PITX1	158.4968679	1.111172731	142.6392706	7.156227	OR9K2	1.100642416	3.319306133	3.015789765	1.592536
MPP2	44.02569665	64.44801842	1.463872768	0.54979	ENSG000002	156.8372148	1.111172731	141.1456656	7.141041	KRT28	1.100642416	3.319306133	3.015789765	1.592536
ZNF726	44.02569665	64.44801842	1.463872768	0.54979	EPIC1	151.8582556	1.111172731	136.6648508	7.094498	CIDEA	1.100642416	3.319306133	3.015789765	1.592536
SMIM3	44.02569665	64.44801842	1.463872768	0.54979	RRM2	2239.701814	16.66759097	134.3746566	7.070117	DCAF4L2	1.100642416	3.319306133	3.015789765	1.592536
ANKRD34A	22.01284833	32.22400921	1.463872768	0.54979	NEK2	1032.304208	7.77820912	132.7174664	7.052214	ENSG000001	1.100642416	3.319306133	3.015789765	1.592536
TANGO6	335.695937	491.1383473	1.463045254	0.548974	ESCO2	292.0989397	2.222345463	131.4372336	7.03823	CDKN2AIPN	1.100642416	3.319306133	3.015789765	1.592536
JAM3	259.7516102	380.0210742	1.463017202	0.548947	SNHG27	146.0494699	1.111172731	131.4372336	7.03823	SPINK6	1.100642416	3.319306133	3.015789765	1.592536
AP3D1	3298.625322	4823.600827	1.462306372	0.548246	PTTG1	1555.92475	12.22290005	127.2958745	6.992042	KCNG2	1.100642416	3.319306133	3.015789765	1.592536
PIK3R6	31.91863007	46.66925472	1.462132135	0.548074	PTPRG-AS1	136.921378	1.111172731	123.2224065	6.945121	GLTPD2	1.100642416	3.319306133	3.015789765	1.592536
CACNA2D2	307.0792341	448.9137835	1.461882581	0.547827	RIPPLY3	135.2617249	1.111172731	121.7288016	6.927527	OR51B4	1.100642416	3.319306133	3.015789765	1.592536
TRAPPC2L	105.661672	154.4530097	1.461769503	0.547716	C1QL1	3225.535735	27.77931829	116.112847	6.859384	TAL2	1.100642416	3.319306133	3.015789765	1.592536
NUMBL	420.445403	614.4785205	1.461494206	0.547444	CCNB2	504.5345323	4.444690926	113.5139745	6.826726	LINC01551	1.100642416	3.319306133	3.015789765	1.592536
HCCS	115.5674537	168.8982552	1.461469036	0.547419	TOP2A	17967.4041	160.0088733	112.2900482	6.811086	HSPE1P11	1.100642416	3.319306133	3.015789765	1.592536
HMGN5	115.5674537	168.8982552	1.461469036	0.547419	KIF14	1852.172822	16.66759097	111.1242066	6.796029	KIAA0408	1.100642416	3.319306133	3.015789765	1.592536
UBA52	711.0150009	1038.946504	1.461216012	0.547169	MT-TP	122.8143269	1.111172731	110.5267646	6.788252	OR8G1	1.100642416	3.319306133	3.015789765	1.592536
TCTA	41.82441182	61.11450023	1.461216012	0.547169	ZNF367	964.2584318	8.889381852	108.4730578	6.761193	TUBA3C	1.100642416	3.319306133	3.015789765	1.592536
PSMD8	569.0321292	831.1572031	1.460650744	0.546611	CHMP1B2P	239.8198681	2.222345463	107.912956	6.753724	RNU6-251P	1.100642416	3.319306133	3.015789765	1.592536
MED30	51.73019357	75.55974574	1.460650744	0.546611	ENSG000002	237.3303885	2.222345463	106.7927523	6.73867	Y_RNA.28	1.100642416	3.319306133	3.015789765	1.592536
ATG7	527.2077174	770.0427029	1.460605901	0.546567	ASPM	9769.547777	92.22733671	105.9289808	6.726954	Y_RNA.33	1.100642416	3.319306133	3.015789765	1.592536
NDUFAB1	123.2719506	180.0099825	1.46026717	0.546232	CENPF	6933.200686	68.89270935	100.6376546	6.653026	RNY4P7	1.100642416	3.319306133	3.015789765	1.592536
BNC2	705.5117888	1030.057122	1.460014047	0.545982	GRIK3	2840.496224	28.89049102	98.31941666	6.619404	PRAMEF19	1.100642416	3.319306133	3.015789765	1.592536
SCOC	172.8008594	252.23621	1.45969303	0.545665	H3C2	2397.368855	24.44580009	98.0687417	6.615721	PCDHA1	1.100642416	3.319306133	3.015789765	1.592536
MID1IP1	111.164884	162.2312188	1.459374695	0.54535	SFTPC	107.8774493	1.111172731	97.08432027	6.601166	C11orf91	1.100642416	3.319306133	3.015789765	1.592536
MFSD14B	555.8244202	811.1560939	1.459374695	0.54535	WDFY1	107.0476228	1.111172731	96.33751781	6.590026	VCX3B	1.100642416	3.319306133	3.015789765	1.592536
PRDM11	261.9528951	382.2434196	1.4592067	0.545184	ENSG000002	107.0476228	1.111172731	96.33751781	6.590026	HSP90AB2P	1.100642416	3.319306133	3.015789765	1.592536
WDR74	150.788011	220.0122008	1.45908285	0.545062	HPCAL4	106.2177963	1.111172731	95.59071535	6.578799	MIR23B	1.100642416	3.319306133	3.015789765	1.592536
MCM2	230.034265	335.5741649	1.458800779	0.544783	AMER3	103.7283167	1.111172731	93.35030795	6.544583	MIR550A3	1.100642416	3.319306133	3.015789765	1.592536
WDR6	2587.610321	3774.653769	1.458741194	0.544724	MT-ND3	5251.142303	56.6698093	92.66207823	6.533907	TAS2R50	1.100642416	3.319306133	3.015789765	1.592536
BRD8	745.1349158	1086.726931	1.458429753	0.544416	MT-ND5	37667.486	406.6892197	92.61982904	6.533249	GPSM3	1.100642416	3.319306133	3.015789765	1.592536
ZNF682	128.7751627	187.7881916	1.45826406	0.544252	MTATP6P1	4375.67531	47.78042745	91.57882304	6.516942	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
COA4	158.4925079	231.1239281	1.45826406	0.544252	MIAT	203.3075007	2.222345463	91.4833018	6.515437	DHRS4-AS1	1.100642416	3.319306133	3.015789765	1.592536
CHRD	79.24625397	115.5619641	1.45826406	0.544252	WDR76	1524.391342	16.66759097	91.45840838	6.515044	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ANAPC10	39.62312699	57.78098203	1.45826406	0.544252	NKX2-1	1516.922903	16.66759097	91.0103269	6.507958	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
B3GAT2	9.905781747	14.44524551	1.45826406	0.544252	IP6K3	302.0568581	3.333518194	90.61203225	6.501631	MIR548L	1.100642416	3.319306133	3.015789765	1.592536
ARTN	9.905781747	14.44524551	1.45826406	0.544252	ENSG000002	99.579184	1.111172731	89.61629564	6.485689	MIR1183	1.100642416	3.319306133	3.015789765	1.592536
LMOD2	9.905781747	14.44524551	1.45826406	0.544252	ENSG000002	97.91953094	1.111172731	88.12269071	6.461442	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
RPP38-DT	9.905781747	14.44524551	1.45826406	0.544252	H3C13	97.0897044	1.111172731	87.37588825	6.449163	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
CYSRT1	9.905781747	14.44524551	1.45826406	0.544252	MT-CO2	19153.22622	220.0122008	87.05529123	6.44386	MTCO3P19	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	9.905781747	14.44524551	1.45826406	0.544252	NPTX1	2114.398007	24.44580009	86.49330352	6.434517	RANP4	1.100642416	3.319306133	3.015789765	1.592536
GMEB1	237.7387619	346.6858922	1.45826406	0.544252	INSM1	1441.408688	16.66759097	86.47972529	6.43429	PPIAP21	1.100642416	3.319306133	3.015789765	1.592536
THAP10	29.71734524	43.33573653	1.45826406	0.544252	TYMS	2760.00305	32.22400921	85.65051704	6.42039	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ADGRB3	49.52890873	72.22622754	1.45826406	0.544252	CEP55	284.6305009	3.333518194	85.38441501	6.415901	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
KPNA6	582.2398382	848.9359668	1.458052011	0.544042	H3C3	1878.727272	22.22345463	84.53803888	6.401529	SOX21-AS1	1.100642416	3.319306133	3.015789765	1.592536
RAF1	1427.533214	2081.226526	1.457918111	0.54391	CSPG4P13	93.77039827	1.111172731	84.38867839	6.398978	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
NKIRAS2	235.5374771	343.352374	1.457739882	0.543733	HORMAD1	561.7925631	6.667036389	84.26421131	6.396848	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
RPIA	136.4796596	198.8999189	1.45735943	0.543357	MT-ND4	60550.78249	728.9293118	83.06811306	6.376223	SNRPGP9	1.100642416	3.319306133	3.015789765	1.592536
KBTBD7	223.4304105	325.5736103	1.457158896	0.543158	BRIP1	1825.618373	22.22345463	82.148271	6.360158	TMEM44-AS	1.100642416	3.319306133	3.015789765	1.592536
C1orf109	203.618847	296.6831193	1.457051367	0.543052	DLGAP5	1541.817699	18.88993643	81.62111632	6.350871	RPSAP8	1.100642416	3.319306133	3.015789765	1.592536
PACS2	1130.359762	1646.757988	1.456844134	0.542847	FSBP	179.2425312	2.222345463	80.65466607	6.333686	ENSG000002	1.100642416	3.319306133	3.015789765	1.592536

ADH5	395.1306275	575.5874749	1.456701746	0.542706
FARP2	796.8651094	1160.064332	1.455785073	0.541797
FOXA1	4687.636051	6823.711744	1.455682922	0.541696
EXT1	1482.565335	2157.897444	1.455515918	0.541531
PBX3	1050.012865	1527.862506	1.45508932	0.541108
TRAP1	963.0621143	1401.188814	1.454930885	0.540951
AACS	242.1413316	352.2417559	1.454694882	0.540717
HPF1	184.9079259	268.903801	1.45425784	0.540283
TRMT2A	220.1284833	320.0177467	1.453777094	0.539806
DYNLRB1	27.51606041	40.00221833	1.453777094	0.539806
NUDT19	137.580302	200.0110917	1.453777094	0.539806
PHLDB3	292.7708827	425.5791561	1.453625279	0.539655
NCOA2	3520.95509	5118.061601	1.453600364	0.539631
DNAAF5	310.3811614	451.136129	1.453490692	0.539522
SPPL3	679.0963709	986.7213855	1.452991693	0.539026
NUDT6	45.12633907	65.55919115	1.45279215	0.538828
ZNF454	45.12633907	65.55919115	1.45279215	0.538828
SESN3	1316.36833	1912.328271	1.452730385	0.538767
DVL3	1387.910087	2015.667335	1.452303974	0.538343
TRPM6	80.34689639	116.6731368	1.452117531	0.538158
MRPL9	241.0406892	350.0194104	1.452117531	0.538158
FGD5	238.8394043	346.6858922	1.451543949	0.537588
SGSH	679.0963709	985.6102128	1.451355441	0.537401
WBP2NL	52.83083598	76.67091847	1.451253175	0.537299
ENSG000002	17.61027866	25.55697282	1.451253175	0.537299
CCNDBP1	219.0278408	317.7954012	1.4509361	0.536984
MRPS23	183.8072835	266.6814555	1.450875343	0.536924
ASXL1	1592.629576	2310.128109	1.450511872	0.536562
ITGAM	189.3104956	274.4596647	1.449785781	0.53584
STPG2	42.92505424	62.22567296	1.449635279	0.53569
ZNF74	154.0899383	223.345719	1.449450376	0.535506
HID1	1081.931495	1567.864724	1.449134932	0.535192
ZC3H4	1105.044986	1601.199906	1.448990698	0.535048
PANK3	923.4389873	1337.851969	1.448771372	0.53483
NPR1	25.31477557	36.66870014	1.448509785	0.534569
RBMS1P1	25.31477557	36.66870014	1.448509785	0.534569
MRM3	83.64882364	121.1178277	1.44793223	0.533994
TOGARAM1	1090.736635	1578.976451	1.447623928	0.533687
GTF3C4	584.4411231	845.6024486	1.446856519	0.532922
ABCD4	294.9721676	426.6903289	1.446544372	0.532611
IQSEC2	851.8972302	1232.290559	1.446524904	0.532591
SPG7	717.6188554	1037.835331	1.446220822	0.532288
DPY19L3	463.3704573	670.0371571	1.446007501	0.532075
ACP6	259.7516102	375.5763832	1.44590589	0.531974
SLC35C1	137.580302	198.8999189	1.445700554	0.531769
UNK	693.4047223	1002.277804	1.445444156	0.531513
HS2ST1	160.6937928	232.2351009	1.445202686	0.531272
ZNF337-AS1	272.9593192	394.4663197	1.445146921	0.531216
GDAP1	247.6445437	357.7976195	1.444803161	0.530873
CAMSAP1	996.0813867	1438.968687	1.44462963	0.5307
LIMD1	334.5952946	483.3601382	1.444611284	0.530681
TTC7B	676.895086	977.8320037	1.444584285	0.530654
AHCY	547.0192809	790.0438121	1.444270503	0.530341
PGP	79.24625397	114.4507913	1.44424229	0.530313
CACNA2D3	245.4432588	354.4641013	1.444179412	0.53025
MKRN2	363.2119974	524.4735292	1.443987349	0.530058
CAPRIN2	1692.788036	2443.468836	1.443458238	0.529529
MAU2	491.9871601	710.0393754	1.443207126	0.529278
MAP2K4	381.9229185	551.1416748	1.443070442	0.529142
USP40	1066.522501	1538.974233	1.44298337	0.529055
PHB1	410.5396213	592.2550659	1.44262584	0.528697
ATOH8	30.81798766	44.44690926	1.44223918	0.52831
MYPN	15.40899383	22.22345463	1.44223918	0.52831
ATP6V1E1P1	15.40899383	22.22345463	1.44223918	0.52831
ENSG000002	15.40899383	22.22345463	1.44223918	0.52831
ENSG000002	15.40899383	22.22345463	1.44223918	0.52831
PLA2G2D	7.704496914	11.11172731	1.44223918	0.52831
TMCO5A	7.704496914	11.11172731	1.44223918	0.52831
PHOSPHO1	7.704496914	11.11172731	1.44223918	0.52831
CCDC185	7.704496914	11.11172731	1.44223918	0.52831
KCNK12	7.704496914	11.11172731	1.44223918	0.52831
BTBD7P1	7.704496914	11.11172731	1.44223918	0.52831
GBP7	7.704496914	11.11172731	1.44223918	0.52831
SSTR3	7.704496914	11.11172731	1.44223918	0.52831
PRPSAP2	319.1863007	460.0255108	1.441244533	0.527315
FIG4	455.6659603	656.7030843	1.441194079	0.527265
SLC9A6	234.4368347	337.7965104	1.440884965	0.526955
RPP40	82.54818122	118.8954823	1.440316195	0.526386
CCND3	134.2783748	193.3440553	1.439874854	0.525943
MINK1	1482.565335	2134.562817	1.43977656	0.525845
CENPB	618.561038	890.0493579	1.43890304	0.524969
PLSCR4	220.1284833	316.6842285	1.438633582	0.524699
MARCHF5	292.7708827	421.1344652	1.438443814	0.524509
NEK9	1589.327649	2285.682309	1.43814418	0.524208
ADGRV1	1812.75806	2606.811228	1.438035933	0.5241
NBAS	2860.56964	4113.561452	1.438021782	0.524086
ABCC5	1997.665986	2872.381511	1.437868759	0.523932
GMPPA	433.653112	623.3679023	1.437480523	0.523542
GYG2	93.55460539	134.4519005	1.437148924	0.52321
TJAP1	278.4625313	400.0221833	1.43653863	0.522597
ILKAP	249.8458285	358.9087923	1.436521051	0.522579
SKI	646.0770984	927.8292308	1.436096765	0.522153
CHST10	219.0278408	314.461883	1.435716491	0.521771
LAP3	534.9122143	767.8203574	1.435413769	0.521467
WDR19	903.6274238	1296.738578	1.435036768	0.521088
PEX11G	20.91220591	30.00166375	1.434648448	0.520697
BEX3	742.933631	1065.614649	1.434333573	0.520381
TRPM4	751.7387703	1077.837549	1.433792684	0.519836
DYNLL1	330.1927249	473.3595836	1.433585745	0.519628
PRAM1	89.15203572	127.7848641	1.433336469	0.519377
FAM3A	170.5995745	244.4580009	1.432934411	0.518973
DRD2	1165.076453	14.44524551	80.65466607	6.333686
MTND2P28	1608.203822	20.00110917	80.40573192	6.329226
FAM83D	1155.118534	14.44524551	79.96530995	6.321302
CDCA2	442.2975423	5.555863657	79.60914262	6.314862
SEZ6	795.8036455	10.00055458	79.5759514	6.314261
KIF11	1227.313443	15.55641824	78.89434598	6.30185
NPTX2	596.6452775	7.77820912	76.70728162	6.261292
MT-ND2	27757.69754	362.2423104	76.6274307	6.259789
H2AC11	3232.174347	42.22456379	76.54725252	6.258279
WAC-AS1	82.1528268	1.111172731	73.9334439	6.208155
MT-ND4L	5062.77168	68.89270935	73.48777146	6.199432
H2AC12	1537.668566	21.1122819	72.8328929	6.186518
MCM10	638.9664307	8.889381852	71.87973713	6.167513
HAPLN1	2673.701091	37.77987287	70.77051582	6.145077
SNHG6	156.8372148	2.222345463	70.57283281	6.141041
UGT8	783.3562475	11.11172731	70.49815257	6.139514
INA	391.6781237	5.555863657	70.49815257	6.139514
MT-ATP8	2330.982732	33.33518194	69.92560401	6.127749
JAKMIP2	2160.038466	31.11283648	69.4259576	6.117403
CKAP2L	1820.639414	26.66814555	68.27019188	6.093184
TPX2	3007.291357	44.44690926	67.66030321	6.080238
SMC2-DT	150.1986025	2.222345463	67.58562296	6.078644
CDKN3	813.2300027	12.22290005	66.5333104	6.056005
C2orf15	73.85456147	1.111172731	66.46541926	6.054532
H2BC9	1979.136282	30.00166375	65.96755095	6.043685
MT-CYB	25539.57122	387.7992833	65.85770608	6.04128
MEIOC	1302.827657	20.00110917	65.13777044	6.025422
MKI67	24766.17289	381.1322469	64.9805234	6.021935
NELL1	2731.788948	42.22456379	64.69667659	6.01562
MT-ATP6	19983.88258	310.0171921	64.46056247	6.010345
NEUROD4	69.7054288	1.111172731	62.73140695	5.971116
TNFRSF13C	69.7054288	1.111172731	62.73140695	5.971116
GINS2	614.9014612	10.00055458	61.48673617	5.942203
OR52E8	68.04577574	1.111172731	61.23780202	5.936351
KIFC1	68.04577574	1.111172731	61.23780202	5.936351
ERCC6L	611.5821551	10.00055458	61.15482397	5.934394
C9	673.8191451	11.11172731	60.64036005	5.922206
H2AC14	2212.317538	36.66870014	60.33258691	5.914866
DTL	1404.896321	23.33462736	60.20650338	5.911847
HBB	4915.062557	82.22678213	59.77447287	5.901458
MT-CO3	20759.77039	352.2417559	58.93614269	5.881081
TMSB15A	258.9058784	4.444690926	58.25059216	5.864201
H3C7	1930.176517	33.33518194	57.90208435	5.855543
XRCC3	191.6899292	3.333518194	57.5037897	5.845585
ENSG000002	63.89664307	1.111172731	57.5037897	5.845585
UNC79	63.06681654	1.111172731	56.75698724	5.826726
MT-ND1	41120.39421	730.0404846	56.32618338	5.815734
MCM8	248.94796	4.444690926	56.01018477	5.807617
ENSG000002	62.23699	1.111172731	56.01018477	5.807617
SOX2	431.5097974	7.77820912	55.47675444	5.793811
NCAPH	923.5969316	16.66759097	55.4127428	5.792146
IGFBPL1	429.0203178	7.77820912	55.15669624	5.785464
TNNT1	973.3865236	17.7787637	54.74995562	5.774786
KCNB2	1370.043607	25.55697282	53.60742902	5.744361
CDH9	351.8464501	6.667036389	52.77404076	5.721757
SIX3	351.8464501	6.667036389	52.77404076	5.721757
MT-CO1	32755.74275	624.4790751	52.45290685	5.712951
SULT4A1	58.08785734	1.111172731	52.27617245	5.708082
HMMR	463.8730322	8.889381852	52.18282215	5.705503
PAX5	695.394635	13.33407278	52.15170538	5.704643
GUSBP8	57.2580308	1.111172731	51.52936999	5.687323
SEMA3A	1249.718759	24.44580009	51.12202319	5.675873
SCIN	4825.441292	94.44968217	51.09007442	5.674971
CDKN2B-AS	283.8006744	5.555863657	51.08128851	5.674723
GINS1	507.8538384	10.00055458	50.78256753	5.666261
ZNF724	112.8564085	2.222345463	50.78256753	5.666261
SV2B	56.42820427	1.111172731	50.78256753	5.666261
LINC02301	112.026582	2.222345463	50.4091663	5.655614
DGCR5	55.59837774	1.111172731	50.03576506	5.644888
MYBL2	1437.259556	28.89049102	49.74853335	5.636582
PTPRN	439.8080627	8.889381852	49.47566322	5.628647
ST18	1428.96129	28.89049102	49.46130163	5.628228
LINC01518	54.7685512	1.111172731	49.2889626	5.623193
H2AC16	1893.664149	38.8910456	48.69152063	5.605599
ENSG000002	107.8774493	2.222345463	48.54216014	5.601166
MARCHF4	53.93872467	1.111172731	48.54216014	5.601166
MT-TT	53.93872467	1.111172731	48.54216014	5.601166
ENSG000002	53.10889814	1.111172731	47.79535767	5.578799
ENSG000002	53.10889814	1.111172731	47.79535767	5.578799
POU2AF1	370.1026339	7.77820912	47.58198554	5.572344
H3C11	1374.192739	28.89049102	47.5655723	5.571846
HDHD2	52.2790716	1.111172731	47.04855521	5.556079
ZFP92	52.2790716	1.111172731	47.04855521	5.556079
PEG13	52.2790716	1.111172731	47.04855521	5.556079
CHEK1	417.4027463	8.889381852	46.9552049	5.553213
NNT-AS1	103.7283167	2.222345463	46.67515398	5.544583
ST8SIA2	155.1775617	3.333518194	46.5506869	5.540731
SPOCK3	930.2355439	20.00110917	46.50919787	5.539444
MT-ND6	2303.598457	50.00277291	46.0694142	5.525737
WDR72	1069.646402	23.33462736	45.83944646	5.518518
MAL	203.3075007	4.444690926	45.7416509	5.515437
OTUD6B-AS	300.3972051	6.667036389	45.05708197	5.493682
FAM163A	49.789592	1.111172731	44.80814782	5.485689
CDK1	2230.573722	50.00277291	44.60900049	5.479263
CDKN2C	792.4843394	17.7787637	44.57477205	5.478156
USP49	98.74935747	2.222345463	44.43474659	5.473616
NRCAM	5627.053723	126.6736914	44.42164479	5.473191
TCF19	146.8792964	3.333518194	44.06134535	5.461442
SLC16A4-AS	97.0897044	2.222345463	43.68794412	5.449163
BUB1	2320.194987	53.33629111	43.50124351	5.442985
WHSC1L2P	48.12993894	1.111172731	43.31454289	5.43678
SPRY4-AS1	1.100642416	3.319306133	3.015789765	1.592536
MYO3B-AS1	1.100642416	3.319306133	3.015789765	1.592536
RPL37A-DT	1.100642416	3.319306133	3.015789765	1.592536
SEC1P	1.100642416	3.319306133	3.015789765	1.592536
SNRPEP4	1.100642416	3.319306133	3.015789765	1.592536
LINC02574	1.100642416	3.319306133	3.015789765	1.592536
PAGE2	1.100642416	3.319306133	3.015789765	1.592536
TPT1P9	1.100642416	3.319306133	3.015789765	1.592536
SOX9-AS1	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
TECRP1	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
CCDST	1.100642416	3.319306133	3.015789765	1.592536
GCNT1P1	1.100642416	3.319306133	3.015789765	1.592536
RPS3AP12	1.100642416	3.319306133	3.015789765	1.592536
ZDHHC20-IT	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
PDE7B-AS1	1.100642416	3.319306133	3.015789765	1.592536
RPL21P118	1.100642416	3.319306133	3.015789765	1.592536
RPL21P57	1.100642416	3.319306133	3.015789765	1.592536
RN7SL344P	1.100642416	3.319306133	3.015789765	1.592536
CA15P1	1.100642416	3.319306133	3.015789765	1.592536
RPL13P8	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
RPL23AP68	1.100642416	3.319306133	3.015789765	1.592536
FTH1P23	1.100642416	3.319306133	3.015789765	1.592536
RN7SL173P	1.100642416	3.319306133	3.015789765	1.592536
EOGT-DT	1.100642416	3.319306133	3.015789765	1.592536
IGFBP7-AS1	1.100642416	3.319306133	3.015789765	1.592536
TNFRSF10A-	1.100642416	3.319306133	3.015789765	1.592536
SBF1P1	1.100642416	3.319306133	3.015789765	1.592536
ARHGAP22-I	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
EPIST	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
MAP9-AS1	1.100642416	3.319306133	3.015789765	1.592536
ZNF969P	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
NPIPA2	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
NDUFAF2P2	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
PHLDA1-DT	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ATXN2-AS	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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SPECC1-DT	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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MTND3P13	1.100642416	3.319306133	3.015789765	1.592536
RYKP1	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
DSCAS	1.100642416	3.319306133	3.015789765	1.592536
MIR5192	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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LINC01140	1.100642416	3.319306133	3.015789765	1.592536
LINC01764	1.100642416	3.319306133	3.015789765	1.592536
KDSR-DT	1.100642416	3.319306133	3.015789765	1.592536
NUDT19-DT	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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SPANXN2	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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LINC02427	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
MAP7-AS1	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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CFAP53	34.11991491	48.89160018	1.432934411	0.518973
SH3PXD2B	619.6616804	887.8270124	1.432760877	0.518798
SLC36A1	323.5888704	463.359029	1.431937472	0.517968
LMAN2L	194.8137077	278.9043556	1.431646463	0.517675
GRHL1	329.0920825	471.1372381	1.431627387	0.517656
COX10	221.2291257	316.6842285	1.431476201	0.517504
H2AC6	861.803012	1233.401732	1.431187539	0.517213
ILRUN	751.7387703	1075.615204	1.430836411	0.516859
ENSG000002	198.1156349	283.3490465	1.430220521	0.516238
TUBB2A	290.5695979	415.5786016	1.430220521	0.516238
MRPS18A	211.3233439	302.238983	1.430220521	0.516238
SLC44A5	39.62312699	56.6698093	1.430220521	0.516238
FUT4	39.62312699	56.6698093	1.430220521	0.516238
MRPS14	171.7002169	245.5691736	1.430220521	0.516238
IL1A	13.207709	18.88993643	1.430220521	0.516238
PPP1R3A	13.207709	18.88993643	1.430220521	0.516238
THSD4	1900.809453	2717.928501	1.429879516	0.515894
RNF121	367.614567	525.584702	1.429716744	0.515729
TRIM65	97.95717505	140.0077642	1.429275233	0.515284
ACYP2	97.95717505	140.0077642	1.429275233	0.515284
FAM210A	84.74946605	121.1178277	1.429127915	0.515135
PAQR3	201.4175622	287.7937374	1.42884133	0.514846
RNF144B	389.6274154	556.6975385	1.428794578	0.514799
SELENOM	408.3383364	583.365684	1.42863315	0.514636
RNF7	77.04496914	110.0061004	1.427816789	0.513811
PHC2	563.5289171	804.4890576	1.427591439	0.513583
CD82	281.7644586	402.2445288	1.427591439	0.513583
CKAP4	957.5589022	1366.74246	1.427319465	0.513308
LIN7B	63.83726015	91.11616398	1.427319465	0.513308
C17orf107	210.2227015	300.0166375	1.427137199	0.513124
FKBP3	681.2976557	972.27614	1.427094504	0.513081
TRPC4AP	1240.424003	1770.098161	1.427010568	0.512996
PIGZ	82.54818122	117.7843095	1.426855296	0.512839
JARID2	453.4646755	646.7025297	1.42613651	0.512112
MGAT2	627.3661773	894.4940488	1.425792593	0.511764
CSTPP1	395.1306275	563.3645748	1.425767925	0.511739
PKIA	181.6059987	258.9032464	1.425631578	0.511601
ZNF76	368.7152095	525.584702	1.425448933	0.511416
BRD7P2	18.71092108	26.66814555	1.425271661	0.511237
CACNB1	130.9764475	186.6770189	1.425271661	0.511237
EHMT1	1466.055699	2089.004735	1.424914986	0.510876
ZBTB17	291.6702403	415.5786016	1.424823462	0.510783
TPI1	450.1627483	641.146666	1.424255269	0.510208
AP4E1	184.9079259	263.3479374	1.424211191	0.510163
CEP72	166.1970049	236.6797918	1.4240918	0.510042
GATD3	171.7002169	244.4580009	1.423748934	0.509695
FGD6	1336.179893	1902.327716	1.423706288	0.509652
NPRL2	177.203429	252.23621	1.423427365	0.509369
LRRC8D	655.9828801	933.3850944	1.422880265	0.508814
WDFY3	5186.227066	7379.298109	1.422864448	0.508798
IGF1	242.1413316	344.4635467	1.422572282	0.508502
FANCB	48.42826632	68.89270935	1.422572282	0.508502
NUDT16	271.8586768	386.6881105	1.422386495	0.508314
GGT5	223.4304105	317.7954012	1.422346226	0.508273
SMIM12	102.3597447	145.5636278	1.422078848	0.508001
LGR6	53.9314784	76.67091847	1.421635763	0.507552
GET1	53.9314784	76.67091847	1.421635763	0.507552
PHKA2	1095.139204	1556.752997	1.421511522	0.507426
SELENON	852.9978726	1212.28945	1.421210403	0.50712
LRP1	17741.25511	25210.28693	1.420997938	0.506904
CPM	499.691657	710.0393754	1.420955034	0.506861
GRAMD1C	118.869381	168.8982552	1.420872674	0.506777
HPSE	59.43469048	84.44912759	1.420872674	0.506777
RPUSD3	148.5867262	211.122819	1.420872674	0.506777
MCUB	64.93790256	92.22733671	1.420238922	0.506134
IBA57	64.93790256	92.22733671	1.420238922	0.506134
BCAS3	945.4518356	1342.29666	1.419740921	0.505628
HSD11B2	35.22055732	50.00277291	1.419704193	0.50559
SMIM26	35.22055732	50.00277291	1.419704193	0.50559
MXD4	398.4325547	565.5869203	1.419529889	0.505413
CBX4	548.1199233	777.820912	1.419070679	0.504946
P4HA3	81.44753881	115.5619641	1.418851518	0.504724
LSM11	40.7237694	57.78098203	1.418851518	0.504724
CENPBD1P	40.7237694	57.78098203	1.418851518	0.504724
PDIA6	2410.406892	3419.078495	1.418465283	0.504331
GSTA4	375.319064	532.2517384	1.41813137	0.503991
UQCRC1	539.314784	764.4868392	1.41751508	0.503364
CAPN13	217.9271984	308.9060193	1.417473457	0.503322
TTC32	57.23340565	81.11560939	1.417277348	0.503122
NFKB2	341.1991491	483.3601382	1.416651066	0.502484
COQ5	215.7259136	305.5725011	1.416484909	0.502315
OSR1	311.4818038	441.1355744	1.416248298	0.502074
RNF26	163.99572	232.2351009	1.416104645	0.501928
AVEN	84.74946605	120.006655	1.41601665	0.501838
TFDP1	303.7773069	430.0238471	1.415589109	0.501403
POLL	123.2719506	174.4541188	1.415197196	0.501003
MAPRE3	161.7944352	228.9015827	1.414767958	0.500565
TSC22D2	1007.087811	1424.523442	1.414497749	0.50029
INTS2	422.6466879	597.8109295	1.414446029	0.500237
PRDM10	530.5096447	750.0415937	1.413813304	0.499592
IL4R	629.5674621	890.0493579	1.413747392	0.499524
CFAP141	16.50963624	23.33462736	1.413394397	0.499164
OCM	11.00642416	15.55641824	1.413394397	0.499164
SETSIP	11.00642416	15.55641824	1.413394397	0.499164
PTP4A2P1	11.00642416	15.55641824	1.413394397	0.499164
SPAM1	5.503212081	7.77820912	1.413394397	0.499164
CHIA	5.503212081	7.77820912	1.413394397	0.499164
TTPA	5.503212081	7.77820912	1.413394397	0.499164
NR1I3	5.503212081	7.77820912	1.413394397	0.499164
ANKRD22	5.503212081	7.77820912	1.413394397	0.499164
CFAP107	5.503212081	7.77820912	1.413394397	0.499164
MELK	1723.54971	40.00221833	43.08635325	5.429159
CCNE2	3488.590746	81.11560939	43.00763777	5.426521
MAD2L1	949.3215542	22.22345463	42.71710092	5.416742
TTK	853.8915028	20.00110917	42.6922075	5.415901
SFRP5	331.9306133	7.77820912	42.67442649	5.4153
DYDC2	47.3001124	1.111172731	42.56774043	5.411689
LINC02894	47.3001124	1.111172731	42.56774043	5.411689
BRCA2	1982.455588	46.66925472	42.47883537	5.408672
H2BC3	282.9708479	6.667036389	42.44327335	5.407464
FAM72A	234.8409089	5.555863657	42.26901944	5.401529
GRM4	511.1731446	12.22290005	41.82093796	5.386154
TOMM5	46.47028587	1.111172731	41.82093796	5.386154
SLC22A31	46.47028587	1.111172731	41.82093796	5.386154
GNAO1	875.4669927	21.1122819	41.46718943	5.373898
PTF1A	45.64045934	1.111172731	41.0741355	5.360158
ENSG000002	45.64045934	1.111172731	41.0741355	5.360158
LINC02980	45.64045934	1.111172731	41.0741355	5.360158
COL21A1	3091.933663	75.55974574	40.92038205	5.354748
KCNH7	1499.496546	36.66870014	40.89309248	5.353785
SHISA2	1498.666719	36.66870014	40.8704621	5.352987
SHCBP1	453.0852872	11.11172731	40.77541451	5.349628
TJP2	44.8106328	1.111172731	40.32733304	5.333686
TATDN2	44.8106328	1.111172731	40.32733304	5.333686
CHST6	44.8106328	1.111172731	40.32733304	5.333686
MYCBP	44.8106328	1.111172731	40.32733304	5.333686
ENSG000002	44.8106328	1.111172731	40.32733304	5.333686
ENSG000002	44.8106328	1.111172731	40.32733304	5.333686
SKA3	401.6360421	10.00055458	40.16137693	5.327737
ENSG000002	133.6020719	3.333518194	40.07839888	5.324753
H2BC13	1687.037342	42.22456379	39.9539318	5.320266
SNHG1	43.98080627	1.111172731	39.58053057	5.306719
HERPUD2-A	43.98080627	1.111172731	39.58053057	5.306719
RALY-AS1	43.98080627	1.111172731	39.58053057	5.306719
CRTAC1	307.8656439	7.77820912	39.58053057	5.306719
H2BC11	2192.401701	55.55863657	39.46104218	5.302357
MT-RNR2	211619.8731	5375.853675	39.36488712	5.298837
ZNF492	128.6231127	3.333518194	38.58479395	5.26996
PRLHR	510.343318	13.33407278	38.27362626	5.258279
ENSG000002	211.605766	5.555863657	38.08692565	5.251224
MAP2	2607.314968	68.89270935	37.84602163	5.24207
DDC	1594.926597	42.22456379	37.7724825	5.239264
SKA2	293.7585928	7.77820912	37.76686745	5.239049
CCDC187	709.501686	18.88993643	37.55977097	5.231116
MT-TE	41.49132667	1.111172731	37.34012318	5.222655
WDHD1	1641.396883	44.44690926	36.92938183	5.206697
C4orf46	287.1199805	7.77820912	36.91337892	5.206072
KNL1	2243.850946	61.11450023	36.71552476	5.198318
AMPH	285.4603275	7.77820912	36.70000678	5.197708
LRRC63	40.66150013	1.111172731	36.59332072	5.193508
LINC00648	40.66150013	1.111172731	36.59332072	5.193508
CDT1	202.4776741	5.555863657	36.44396023	5.187608
B2M	121.1546739	3.333518194	36.34438656	5.183661
ENSG000002	80.49317374	2.222345463	36.21991949	5.178711
E2F8	361.8043685	10.00055458	36.17843046	5.177058
CENPA	239.8198681	6.667036389	35.97098533	5.168762
ENSG000002	79.6633472	2.222345463	35.84651825	5.163761
DYNLT2B	39.8316736	1.111172731	35.84651825	5.163761
ENSG000002	39.8316736	1.111172731	35.84651825	5.163761
ENSG000002	39.8316736	1.111172731	35.84651825	5.163761
CSRNP3	317.8235623	8.889381852	35.75316795	5.159999
HBA1	2220.615803	62.22567296	35.68648916	5.157306
RACGAP1	1262.166157	35.55752741	35.4964546	5.149603
ENSG000002	39.00184707	1.111172731	35.09971579	5.133387
ENSG000002	39.00184707	1.111172731	35.09971579	5.133387
FANCI	1948.4327	55.55863657	35.06984369	5.132159
MMP13	269.6936233	7.77820912	34.67297153	5.11574
RPS6KL1	115.3458881	3.333518194	34.60184748	5.112777
CIBAR1P1	76.34404107	2.222345463	34.35291333	5.102361
HRH3	38.17202053	1.111172731	34.35291333	5.102361
ZEB1-AS1	38.17202053	1.111172731	34.35291333	5.102361
ENSG000002	38.17202053	1.111172731	34.35291333	5.102361
FOXB1	267.2041437	7.77820912	34.35291333	5.102361
HASPIN	302.0568581	8.889381852	33.9795121	5.086593
GTSE1	375.9114196	11.11172731	33.8301516	5.080238
ASCL1	2472.883069	73.33740027	33.71926275	5.075501
STUM	149.368776	4.444690926	33.60611086	5.070652
MAP3K9-DT	37.342194	1.111172731	33.60611086	5.070652
ENSG000001	222.3935109	6.667036389	33.35717671	5.059925
PRR11	665.5208798	20.00110917	33.27419866	5.056332
OPRD1	221.5636844	6.667036389	33.23270963	5.054532
ZWINT	770.9088495	23.33462736	33.03711851	5.046016
ENSG000002	219.9040313	6.667036389	32.98377548	5.043685
SCN3A	5600.499274	170.0094279	32.94228645	5.041869
ENSG000002	36.51236747	1.111172731	32.8593084	5.03823
MT-RNR1	113185.8497	3474.637131	32.57486909	5.025687
HSPA6	361.8043685	11.11172731	32.56058741	5.025055
PPM1E	940.1934623	28.89049102	32.54335351	5.024291
CCNA2	1011.558544	31.11283648	32.51257868	5.022926
RAD54L	216.5847252	6.667036389	32.48590717	5.021742
MIR4435-2H	107.8774493	3.333518194	32.36144009	5.016204
FANCA	1292.869739	40.00221833	32.31995107	5.014353
TRAF3IP2-A	35.68254093	1.111172731	32.11250594	5.005063
LINC00491	35.68254093	1.111172731	32.11250594	5.005063
ENSG000002	35.68254093	1.111172731	32.11250594	5.005063
DLL3	1375.022566	43.33573653	31.72953031	4.987754
NEURL1B	1126.074606	35.55752741	31.66909197	4.985004
TAGLN3	281.3111948	8.889381852	31.6457544	4.98394
H2AC13	2491.139253	78.89326393	31.57607036	4.98076
GOLGA2P5.	140.2406841	4.444690926	31.55240409	4.979678
CBLN2	595.815451	18.88993643	31.5414217	4.979176
H2BC17	1603.224862	51.11394565	31.36570347	4.971116
XKR5	1.100642416	3.319306133	3.015789765	1.592536
IKBKGP1	1.100642416	3.319306133	3.015789765	1.592536
CEBPB-AS1	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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LBHD2	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
SMIM38	1.100642416	3.319306133	3.015789765	1.592536
SMIM41	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
ENSG000002	1.100642416	3.319306133	3.015789765	1.592536
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CRABP2	244.3426164	736.0561351	3.012393605	1.59091
SPINDOC	155.1905807	467.1923383	3.01044262	1.589976
PRMT6	151.8886534	457.2344199	3.010326377	1.58992
PHYH	244.3426164	735.2263086	3.008997445	1.589283
FSD1L	204.7194894	615.7312878	3.007682803	1.588652
MT-ATP8	775.9529035	2330.982732	3.004026046	1.586897
TRPC6	58.33404806	175.0933985	3.001564341	1.585715
HNRNPLP2	47.3276239	141.9003372	2.998256103	1.584124
DNM1L	1328.475396	3979.848054	2.9958011	1.582942
ATP13A3	1721.404739	5154.052599	2.994096903	1.582121
RBIS	190.411138	570.0908284	2.993999376	1.582074
WRAP73	74.84368431	224.053164	2.99361484	1.581889
GRB7	74.84368431	224.053164	2.99361484	1.581889
TMX1	292.7708827	876.2968192	2.993114654	1.581648
PDCD2L	35.22055732	105.3879697	2.992228907	1.581221
CXCR4	312.5824462	935.2145031	2.991897064	1.581061
CDON	267.4561072	799.1229516	2.987865785	1.579115
VPS26C	286.1670282	854.7213294	2.986791786	1.578597
ZNF569	177.203429	528.5995018	2.983009441	1.576769
ZNF271P	25.31477557	75.51421454	2.983009441	1.576769
PYGL	278.4625313	830.6563599	2.983009441	1.576769
ITPR3	1260.235567	3756.624717	2.980890887	1.575744
MCM5	353.3062156	1053.049871	2.980558576	1.575583
MT-RNR1	38004.08199	113185.8497	2.978255065	1.574467
ENSG000002	20.91220591	62.23699	2.97610832	1.573427
CHD7	3417.494703	10170.35399	2.975967742	1.573359
KITLG	342.2997915	1018.197156	2.974577203	1.572685
EBLN3P	134.2783748	399.1465625	2.972530485	1.571692
FAM204A	236.6381195	702.8630738	2.970202245	1.570561
ATP5MC3	363.2119974	1078.774493	2.97009598	1.57051
AMN1	123.2719506	365.9535012	2.968668049	1.569816
HDHD2	17.61027866	52.2790716	2.968668049	1.569816
NUP188	980.6723929	2910.201653	2.967557437	1.569276
MTHFD2	199.2162773	590.8364918	2.965804299	1.568423
ARL4A	49.52890873	146.8792964	2.965526602	1.568288
EEF1E1	80.34689639	238.1602151	2.964149529	1.567618
ENSG000002	15.40899383	45.64045934	2.961936376	1.566541
SRM	347.8030036	1029.814728	2.960913843	1.566043
GPC4	320.2869431	947.6619011	2.958790302	1.565007
PSMG3	14.30835141	42.3211532	2.957793808	1.564521
B3GALT5	14.30835141	42.3211532	2.957793808	1.564521
C17orf100	13.207709	39.00184707	2.952960811	1.562162
NEMP2	48.42826632	142.7301637	2.947249088	1.559369
COL23A1	24.21413316	71.36508187	2.947249088	1.559369
ERICH6-AS1	12.10706658	35.68254093	2.947249088	1.559369
RAP2A	101.2591023	297.9077255	2.942034037	1.556814
STIL	806.7708911	2373.303885	2.941732171	1.556666
MAK	132.07709	388.3588176	2.94039502	1.55601
AACS	242.1413316	711.9911656	2.94039502	1.55601
GPR52	121.0706658	355.9955828	2.94039502	1.55601
ENSG000002	11.00642416	32.3632348	2.94039502	1.55601
LINC00680	11.00642416	32.3632348	2.94039502	1.55601
USP11	789.1606125	2320.194987	2.940079561	1.555855
SPA17	64.93790256	190.8601027	2.939117143	1.555383
HNRNPA3P6	30.81798766	90.45109214	2.935009682	1.553365
MCOLN2	59.43469048	174.263572	2.932017827	1.551894
SEC61A2	217.9271984	638.9664307	2.932017827	1.551894
H2AC20	1015.89295	2977.417602	2.93083794	1.551313

LEAP2	5.503212081	7.77820912	1.413394397	0.499164
GPR85	5.503212081	7.77820912	1.413394397	0.499164
SLC22A11	5.503212081	7.77820912	1.413394397	0.499164
OR7G2	5.503212081	7.77820912	1.413394397	0.499164
OR2M4	5.503212081	7.77820912	1.413394397	0.499164
ADH6	5.503212081	7.77820912	1.413394397	0.499164
GFRAL	5.503212081	7.77820912	1.413394397	0.499164
OR51I2	5.503212081	7.77820912	1.413394397	0.499164
PRC1	5.503212081	7.77820912	1.413394397	0.499164
IGLV1-50	5.503212081	7.77820912	1.413394397	0.499164
ARL4AP5	5.503212081	7.77820912	1.413394397	0.499164
OCLNP1	5.503212081	7.77820912	1.413394397	0.499164
ENSG000002	5.503212081	7.77820912	1.413394397	0.499164
HNRNPUP1	5.503212081	7.77820912	1.413394397	0.499164
MBLAC2	55.03212081	77.7820912	1.413394397	0.499164
ZNF30	126.5738779	178.8988098	1.413394397	0.499164
FDX1	60.5353329	85.56030032	1.413394397	0.499164
NRARP	49.52890873	70.00388208	1.413394397	0.499164
ASAP2	691.2034374	976.7208309	1.413072878	0.498836
FPGT	195.9143501	276.6820101	1.412260051	0.498006
ITPRID2	1925.023586	2717.928501	1.41189361	0.497631
KCNS3	259.7516102	366.6870014	1.411683266	0.497416
STEAP1	1150.171325	1623.423361	1.41146221	0.497191
COPG1	2518.269848	3553.530395	1.411099925	0.49682
ARFGAP1	708.8137161	1000.055458	1.410886155	0.496602
AK5	80.34689639	113.3396186	1.410628459	0.496338
MERTK	963.0621143	1357.853078	1.409933023	0.495627
SF3A2	505.1948691	712.2617209	1.409875207	0.495567
FMOD	2258.518238	3183.509876	1.40955686	0.495242
USP31	1020.29552	1437.857514	1.409255933	0.494934
AARS1	1004.886526	1415.63406	1.408750165	0.494416
HGSNAT	1099.541774	1548.974788	1.408745738	0.494411
ACAD11	41.82441182	58.89215477	1.408080884	0.49373
ANXA11	1452.84799	2045.668999	1.40804063	0.493689
TLE4	536.0128567	754.4862846	1.407589902	0.493227
FNDC4	72.64239948	102.2278913	1.407275806	0.492905
ST14	938.8479811	1321.184378	1.407239941	0.492868
LAMTOR1	606.4539714	853.3806577	1.407164761	0.492791
AMD1	777.0535459	1093.393968	1.407102475	0.492727
RNF40	822.179885	1156.730813	1.406907216	0.492527
DOCK3	170.5995745	240.01331	1.406881059	0.4925
DMRTA1	221.2291257	311.1283648	1.406362584	0.491969
ALYREF	266.3554647	374.4652105	1.405885218	0.491479
SCAND1	342.2997915	481.1377927	1.405603523	0.49119
SEC61B	168.3982897	236.6797918	1.405476221	0.491059
PRAC1	222.3297681	312.2395375	1.404398251	0.489952
MTA1	1176.586743	1652.313852	1.404328122	0.48988
STXBP1	549.2205657	771.1538756	1.404087763	0.489633
IRF2BPL	1515.584607	2127.895781	1.404009892	0.489553
HEATR6	702.2098616	985.6102128	1.403583553	0.489115
PPOX	129.8758051	182.232328	1.403127609	0.488646
MCF2L	762.7451945	1070.05934	1.402905385	0.488418
GNA11	717.6188554	1006.722495	1.402865166	0.488376
CYREN	104.5610295	146.6748005	1.402767371	0.488276
UNC50	562.4282747	788.9326393	1.402725778	0.488233
PWWP2B	163.99572	230.0127554	1.402553404	0.488056
TMSB10	1763.229151	2472.359327	1.402176981	0.487668
RPS6KA6	396.2312699	555.5863657	1.402176981	0.487668
AK7	79.24625397	111.1172731	1.402176981	0.487668
FGF18	19.81156349	27.77931829	1.402176981	0.487668
WRNIP1	786.9593277	1103.394522	1.402098537	0.487588
ZNF792	212.4239863	297.794292	1.401886374	0.487369
DCAKD	320.2869431	448.9137835	1.401598764	0.487073
CLUH	1097.340489	1537.86306	1.401445655	0.486916
CYP20A1	482.0813783	675.5930207	1.401408665	0.486878
TOP3B	383.0235609	536.6964293	1.401209962	0.486673
WDFY2	224.5310529	314.461883	1.400527361	0.48597
S100A9	34.11991491	47.78042745	1.40036772	0.485806
FNDC10	34.11991491	47.78042745	1.40036772	0.485806
MYO18A	1306.462548	1828.990316	1.399956178	0.485382
NDUFB5	48.42826632	67.78153662	1.399627568	0.485043
TIMP1	2636.038587	3689.093468	1.399483864	0.484895
LAS1L	555.8244202	777.820912	1.399400393	0.484809
ADARB1	855.1991575	1196.733032	1.399361799	0.484769
TTC21B	2977.237736	4165.78657	1.399211934	0.484614
ZSCAN22	91.35332055	127.7848641	1.398798241	0.484188
KIAA1217	4120.805207	5763.652958	1.398671538	0.484057
MAGEF1	422.6466879	591.1438931	1.398671538	0.484057
ZNF460	1143.567471	1598.977561	1.39823631	0.483608
UBE2E1	526.107075	735.5963482	1.398187523	0.483558
MRPL11	171.7002169	240.01331	1.39786259	0.483223
PAK4	615.2591107	860.0476941	1.39786259	0.483223
C1QA	114.4668113	160.0088733	1.39786259	0.483223
HPX	42.92505424	60.0033275	1.39786259	0.483223
DNAI1	42.92505424	60.0033275	1.39786259	0.483223
CCDC167	42.92505424	60.0033275	1.39786259	0.483223
UMODL1	14.30835141	20.00110917	1.39786259	0.483223
BRD2	71.54175706	100.0055458	1.39786259	0.483223
LMAN2	2149.554639	3004.611066	1.397783062	0.48314
DUSP3	395.1306275	552.2528475	1.39764627	0.482999
GGA3	632.8693894	884.4934942	1.397592472	0.482944
GUSB	589.9443351	824.4901667	1.397572818	0.482923
REEP6	350.0042884	488.9160018	1.396885747	0.482214
CNPY3	278.4625313	388.910456	1.396634779	0.481955
GNAS	6534.514026	9126.061643	1.39659378	0.481912
SWI5	198.1156349	276.6820101	1.396568273	0.481886
JUP	3284.31697	4584.69869	1.395936729	0.481234
MFSD1	978.4711081	1365.631287	1.395678703	0.480967
MED26	74.84368431	104.4502368	1.395578501	0.480863
MOGS	400.6338395	558.9198839	1.395089053	0.480357
E2F4	297.1734524	414.4674288	1.394698704	0.479953
ENSG000002	34.8527144	1.111172731	31.36570347	4.971116
ENSG000002	34.8527144	1.111172731	31.36570347	4.971116
GRIK2	2920.989397	93.33850944	31.29457943	4.967841
CEL	4709.265577	151.1194915	31.16252927	4.96174
AURKB	344.3780113	11.11172731	30.99230224	4.953838
EDN2	68.04577574	2.222345463	30.61890101	4.936351
GPRIN2	34.02288787	1.111172731	30.61890101	4.936351
PITPNA-AS1	34.02288787	1.111172731	30.61890101	4.936351
TRIM52-AS1	34.02288787	1.111172731	30.61890101	4.936351
MEG3	271.3532764	8.889381852	30.5255507	4.931945
CHN2	707.842033	23.33462736	30.33440483	4.922883
DEPDC1B	1074.625361	35.55752741	30.2221622	4.917535
MT1E	736.8859616	24.44580009	30.14366308	4.913783
SYNGR4	100.4090105	3.333518194	30.1210327	4.912699
NUTM2B-AS	234.0110824	7.77820912	30.08547068	4.910995
CHROMR	133.6020719	4.444690926	30.05879916	4.909715
RAD51AP1	333.5902664	11.11172731	30.02145904	4.907922
MMP12	433.1694504	14.44524551	29.98699123	4.906265
MEG8	33.19306133	1.111172731	29.87209855	4.900727
ENSG000002	33.19306133	1.111172731	29.87209855	4.900727
NIPBL-DT	264.7146641	8.889381852	29.77874824	4.896211
FOXJ1	463.0432056	15.55641824	29.76541248	4.895565
HCN4	229.8619497	7.77820912	29.55204035	4.885186
AUNIP	229.0321232	7.77820912	29.44535428	4.879968
CPLX2	391.6781237	13.33407278	29.37423024	4.876479
LHX2	809.9106966	27.77931829	29.15516818	4.86568
MAK	388.3588176	13.33407278	29.12529608	4.864201
CDK5R2	97.0897044	3.333518194	29.12529608	4.864201
TMEM14C	64.7264696	2.222345463	29.12529608	4.864201
SMIM30	32.3632348	1.111172731	29.12529608	4.864201
LINC00680	32.3632348	1.111172731	29.12529608	4.864201
H2BC7	3457.057338	118.8954823	29.07643985	4.861779
CACNA1A	4858.634353	167.7870824	28.95714188	4.855847
LMNB1	1896.153629	65.55919115	28.92277338	4.854134
CKS2	865.5090743	30.00166375	28.84870258	4.850435
MTCO1P12	63.89664307	2.222345463	28.75189485	4.845585
SLC38A1	2998.163265	104.4502368	28.70422661	4.843191
SNHG29	477.1502567	16.66759097	28.62742777	4.839326
FOXM1	1993.243333	70.00388208	28.47332568	4.831539
ENSG000002	31.53340827	1.111172731	28.37849362	4.826726
RNF157-AS1	31.53340827	1.111172731	28.37849362	4.826726
LARRPM	31.53340827	1.111172731	28.37849362	4.826726
SEPTIN14	189.2004496	6.667036389	28.37849362	4.826726
MUC4	532.7486344	18.88993643	28.20277539	4.817765
ANLN	962.5987787	34.44635467	27.94486638	4.804511
RAB4A-AS1	61.40716347	2.222345463	27.63169115	4.788252
FAM83A	30.70358173	1.111172731	27.63169115	4.788252
SCGB1D1	30.70358173	1.111172731	27.63169115	4.788252
ENSG000002	30.70358173	1.111172731	27.63169115	4.788252
ENSG000002	30.70358173	1.111172731	27.63169115	4.788252
DENND11	30.70358173	1.111172731	27.63169115	4.788252
ENSG000002	30.70358173	1.111172731	27.63169115	4.788252
CENPE	1410.705107	51.11394565	27.59922148	4.786556
UBE2C	458.894073	16.66759097	27.53211749	4.783044
CFAP74	305.3761643	11.11172731	27.48233066	4.780432
KIF20A	608.262849	22.22345463	27.37031029	4.77454
ENSG000002	60.57733694	2.222345463	27.25828992	4.768623
CASC2	90.45109214	3.333518194	27.13382285	4.76202
GGH	1016.537503	37.77987287	26.90685347	4.749902
HOXB2	507.8538384	18.88993643	26.88488869	4.748724
LINC00630	59.7475104	2.222345463	26.88488869	4.748724
MT-TS1	29.8737552	1.111172731	26.88488869	4.748724
TRIM9	2690.297621	101.1167186	26.60586359	4.733672
AURKA	886.2547376	33.33518194	26.58616771	4.732604
LYPD1	619.8804204	23.33462736	26.56483049	4.731446
ENSG000002	58.91768387	2.222345463	26.51148746	4.728546
SFTPB	410.764134	15.55641824	26.40480139	4.722728
SCHIP1	87.96161254	3.333518194	26.38702038	4.721757
CXCL8	58.08785734	2.222345463	26.13808623	4.708082
RNA5SP141	29.04392867	1.111172731	26.13808623	4.708082
ENSG000002	29.04392867	1.111172731	26.13808623	4.708082
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ENSG000002	29.04392867	1.111172731	26.13808623	4.708082
ENSG000002	115.3458881	4.444690926	25.95138561	4.69774
TCF7	172.6039189	6.667036389	25.88915207	4.694276
CNGB1	229.8619497	8.889381852	25.8580353	4.692541
CDC6	1747.614679	67.78153662	25.78304899	4.688351
CNTN1	1030.644554	40.00221833	25.764685	4.687323
NDC80	656.3927879	25.55697282	25.68351081	4.682771
LINC00472	112.8564085	4.444690926	25.39128376	4.666261
ENSG000002	28.21410213	1.111172731	25.39128376	4.666261
ENSG000002	28.21410213	1.111172731	25.39128376	4.666261
FLRT1	308.6954704	12.22290005	25.2555015	4.658526
MAGEA10	448.106328	17.7787637	25.20458315	4.655614
H1-3	1986.604721	78.89326393	25.18091687	4.654259
RN7SL5P	977.5356563	38.8910456	25.1352372	4.651639
PRRT4	55.59837774	2.222345463	25.01788253	4.644888
SMIM22	55.59837774	2.222345463	25.01788253	4.644888
AJAP1	111.1967555	4.444690926	25.01788253	4.644888
KIF18A	611.5821551	24.44580009	25.01788253	4.644888
IGF2	1027.325248	41.11339106	24.98760676	4.643141
CDH2	2304.428283	92.22733671	24.98639086	4.643071
SPECC1L	54.7685512	2.222345463	24.6444813	4.623193
HEIH	54.7685512	2.222345463	24.6444813	4.623193
DLEU2L	27.3842756	1.111172731	24.6444813	4.623193
TMEM255A	27.3842756	1.111172731	24.6444813	4.623193
BVES-AS1	27.3842756	1.111172731	24.6444813	4.623193
ENSG000002	27.3842756	1.111172731	24.6444813	4.623193
HNRNPA1P	27.3842756	1.111172731	24.6444813	4.623193
ENSG000002	27.3842756	1.111172731	24.6444813	4.623193
CAND2	68.23982981	199.9881945	2.930666666	1.551229
INIP	134.2783748	393.3377768	2.929271206	1.550542
KIF2A	822.179885	2408.1566	2.928989925	1.550403
MRPL14	117.7687385	344.3780113	2.924188674	1.548036
RBBP7	2260.719523	6608.738512	2.923289884	1.547593
GAPDH	1360.394027	3975.698921	2.922461319	1.547184
SNX7	115.5674537	337.7393991	2.922443891	1.547175
TFR2	8.80513933	25.72462253	2.921546334	1.546732
FHL5	8.80513933	25.72462253	2.921546334	1.546732
ENSG000002	8.80513933	25.72462253	2.921546334	1.546732
LINC01535	8.80513933	25.72462253	2.921546334	1.546732
CHRAC1	138.6809445	404.9553483	2.920050407	1.545993
C12orf56	25.31477557	73.85456147	2.917448794	1.544707
DEK	2320.154214	6766.405553	2.916360263	1.544169
DUT	179.4047139	522.790716	2.914029987	1.543016
CFL1	1733.511806	5049.494456	2.912869955	1.542441
SUZ12	759.4432672	2210.657885	2.910892729	1.541462
SLCO1B1	7.704496914	22.4053164	2.908082987	1.540068
SNHG19	7.704496914	22.4053164	2.908082987	1.540068
RASSF6	253.1477557	736.0561351	2.907614697	1.539836
NUDC	472.1755966	1372.533086	2.906827663	1.539446
RFC2	197.0149925	572.580308	2.906277846	1.539173
TIFA	60.5353329	175.9232251	2.906124682	1.539097
RTKN2	179.4047139	521.131063	2.904779098	1.538428
ZNF354C	176.1027866	511.1731446	2.902697648	1.537394
COMMD4	28.61670282	82.98265334	2.89979785	1.535952
RPL26L1	99.05781747	287.1199805	2.898509051	1.535311
GART	769.349049	2229.743895	2.898221422	1.535168
RASGRF1	70.44111464	204.1373272	2.897985477	1.53505
ZIK1	35.22055732	102.0686636	2.897985477	1.53505
PPIL1	152.9892959	443.1273688	2.896459954	1.534291
GOLGA2P5.1	48.42826632	140.2406841	2.895843581	1.533984
FKBP5	2232.10282	6463.518868	2.895708392	1.533916
MAMDC4	55.03212081	159.3266944	2.895158174	1.533642
NDUFAF8	53.9314784	156.0073883	2.892696305	1.532415
DESI2	214.6252712	620.710247	2.892065056	1.5321
COL22A1	86.95075089	251.4374396	2.891722464	1.531929
SLC25A53	13.207709	38.17202053	2.890131858	1.531135
SULT1B1	6.603854498	19.08601027	2.890131858	1.531135
GCSHP5	6.603854498	19.08601027	2.890131858	1.531135
GDF10	6.603854498	19.08601027	2.890131858	1.531135
ENSG000002	6.603854498	19.08601027	2.890131858	1.531135
IGFBP2	810.0728184	2340.940651	2.889790396	1.530965
CEMIP2	1296.556766	3746.666798	2.889705175	1.530922
RAN	729.725922	2108.589221	2.88956327	1.530851
CSRNP3	110.0642416	317.8235623	2.8876187	1.52988
NOL7	211.3233439	609.922502	2.886205048	1.529174
LIPE-AS1	31.91863007	92.1107452	2.885798826	1.528971
EXOSC2	192.6124229	555.1539508	2.882233361	1.527187
PSMG1	272.9593192	785.8457271	2.878984785	1.52556
BAIAP2-DT	36.32119974	104.5581432	2.878708412	1.525422
CAPSL	12.10706658	34.8527144	2.878708412	1.525422
COPS8P2	12.10706658	34.8527144	2.878708412	1.525422
PSMC2P1	12.10706658	34.8527144	2.878708412	1.525422
HMCES	198.1156349	570.0908284	2.877566067	1.524849
SEMA5B	29.71734524	85.47213294	2.876169868	1.524149
POLR2I	64.93790256	186.71097	2.875223292	1.523674
SUSD5	17.61027866	50.61941854	2.874424619	1.523273
TUBA1C	837.5888788	2407.326773	2.874115015	1.523118
ETS2	631.768747	1814.830628	2.872618561	1.522366
DLEU2	23.11349074	66.38612267	2.872180728	1.522147
ROBO1	3151.139238	9050.088173	2.872005167	1.522058
ZMYND19	119.9700234	344.3780113	2.870533835	1.521319
ZNF544	275.1606041	789.1650332	2.868016066	1.520053
TSPAN17	184.9079259	530.2591548	2.867692946	1.519891
KLC2	305.9785917	877.1266458	2.866627501	1.519354
CHEK2	66.03854498	189.2004496	2.865000276	1.518535
CBARP	16.50963624	47.3001124	2.865000276	1.518535
ZCCHC18	5.503212081	15.76670413	2.865000276	1.518535
KYAT1	5.503212081	15.76670413	2.865000276	1.518535
FAM89B	5.503212081	15.76670413	2.865000276	1.518535
RNF227	5.503212081	15.76670413	2.865000276	1.518535
OFD1P17	5.503212081	15.76670413	2.865000276	1.518535
ENSG000002	5.503212081	15.76670413	2.865000276	1.518535
TRIT1	745.1349158	2130.164711	2.858763783	1.515391
BANF1	300.4753796	858.870462	2.858372167	1.515194
OAT	433.653112	1238.931014	2.856963273	1.514482
HNRNPA3	1497.974329	4277.75578	2.855693651	1.513841
SCGB2B2	15.40899383	43.98080627	2.854229599	1.513101
MT-ND5	13204.40707	37667.486	2.852645015	1.5123
CCDC138	151.8886534	433.1694504	2.851888147	1.511917
PCMT1	472.1755966	1344.318984	2.847074253	1.50948
ABTB3	278.4625313	792.4843394	2.845928088	1.508899
UBTD2	272.9593192	776.7176352	2.845543568	1.508704
GNG5	58.33404806	165.9653067	2.845084684	1.508472
HAUS6	374.2184215	1063.837616	2.842825352	1.507325
TEKT2	14.30835141	40.66150013	2.841801893	1.506806
ENSG000002	14.30835141	40.66150013	2.841801893	1.506806
GMFB	117.7687385	334.4200929	2.83963382	1.505705
ACAT2	388.526773	1102.839463	2.838516004	1.505137
QSOX1	401.7344819	1139.35183	2.836081744	1.503899
AP2S1	193.7130653	549.3451651	2.835870489	1.503792
AMIGO2	175.0021442	496.236267	2.835601068	1.503655
TBC1D10B	211.3233439	599.1347571	2.835156523	1.503428
IL1RAP	150.788011	427.3606647	2.834181987	1.502932
CASC2	31.91863007	90.45109214	2.833802451	1.502739
INCENP	276.2612465	782.526421	2.83255951	1.502106
SORT1	897.0235693	2539.269192	2.830771988	1.501196
RANGRF	71.54175706	202.4776741	2.830202702	1.500905
RRM2B	318.0856583	899.5319622	2.827955108	1.499759
ANXA13	8.80513933	24.894796	2.827302904	1.499426

AZIN1	1803.95292	2515.695064	1.394545853	0.479795
ENSG000002	282.865101	394.4663197	1.394538663	0.479788
TPGS2	430.3511848	600.033275	1.394287494	0.479528
MPPE1	124.372593	173.3429461	1.393739102	0.478961
CHMP5	500.7922994	697.8164753	1.393424931	0.478635
ADAMTSL4	141.9828717	197.7887462	1.393046526	0.478243
PTRHD1	191.5117804	266.6814555	1.392506795	0.477684
GABRA3	31.91863007	44.44690926	1.392506795	0.477684
RAB7B	31.91863007	44.44690926	1.392506795	0.477684
LAMC1	2343.267704	3262.40314	1.392245168	0.477413
ATPAF2	154.0899383	214.4563372	1.391760809	0.476911
NMRK1	81.44753881	113.3396186	1.391565912	0.476709
DERL1	416.0428334	578.9209931	1.391493728	0.476634
PNPLA7	704.4111464	980.0543491	1.391310109	0.476444
HES1	387.4261305	538.9187747	1.3910233	0.476147
FLT3	49.52890873	68.89270935	1.390959565	0.47608
JAK1	3219.379068	4478.026108	1.390959565	0.47608
CERS4	1172.184173	1630.090397	1.390643582	0.475753
TADA3	609.7558986	847.8247941	1.390433116	0.475534
KLHDC2	653.7815953	908.9392943	1.390279722	0.475375
FMNL2	748.4368431	1040.057677	1.389639869	0.474711
RALB	199.2162773	276.6820101	1.388852426	0.473893
HARS1	252.0471133	350.0194104	1.388706285	0.473741
KLHL8	419.3447606	582.2545113	1.388486434	0.473513
STX5	445.7601786	618.9232114	1.388466806	0.473493
TARS2	202.5182046	281.1267011	1.388155211	0.473169
RMDN3	176.1027866	244.4580009	1.388155211	0.473169
GRB14	52.83083598	73.33740027	1.388155211	0.473169
MEDAG	17.61027866	24.44580009	1.388155211	0.473169
SLC13A1	8.80513933	12.22290005	1.388155211	0.473169
USHBP1	8.80513933	12.22290005	1.388155211	0.473169
CDH18	8.80513933	12.22290005	1.388155211	0.473169
LECT2	8.80513933	12.22290005	1.388155211	0.473169
KIF5A	8.80513933	12.22290005	1.388155211	0.473169
GPATCH4	8.80513933	12.22290005	1.388155211	0.473169
BOLA2B	8.80513933	12.22290005	1.388155211	0.473169
UPF3AP1	8.80513933	12.22290005	1.388155211	0.473169
PTPN2P1	8.80513933	12.22290005	1.388155211	0.473169
LRRC37A6P	8.80513933	12.22290005	1.388155211	0.473169
CDC42P6	8.80513933	12.22290005	1.388155211	0.473169
ENSG000002	8.80513933	12.22290005	1.388155211	0.473169
ENSG000002	8.80513933	12.22290005	1.388155211	0.473169
UBE2T	44.02569665	61.11450023	1.388155211	0.473169
VRK3	482.0813783	668.9259843	1.387578974	0.47257
MCCC1	1064.321217	1476.74856	1.387502699	0.472491
DLG4	197.0149925	273.3484919	1.387450206	0.472436
PLXNA2	573.4346989	795.5996757	1.387428555	0.472413
OGFR	423.7473303	587.8103749	1.387171866	0.472147
MBD6	1047.81158	1453.413933	1.387094741	0.472066
CPD	2903.494694	4026.889979	1.38691143	0.471876
PLK3	108.9635992	151.1194915	1.386880505	0.471843
PLPP6	108.9635992	151.1194915	1.386880505	0.471843
RNF25	173.9015018	241.1244827	1.386557794	0.471508
PTPRS	8418.813842	11668.42485	1.385993926	0.470921
DUSP5	56.13276323	77.7820912	1.385680781	0.470595
LRRC8B	440.2569665	610.0338296	1.385631293	0.470543
PPME1	843.0920909	1167.842541	1.385189772	0.470084
CDK14	502.9935842	696.7053026	1.385117672	0.470009
EFHC1	544.8179961	754.4862846	1.384840975	0.46972
NDUFC1	201.4175622	278.9043556	1.384707235	0.469581
E2F6	77.04496914	106.6725822	1.384549613	0.469417
SIKE1	213.5246288	295.5719466	1.384252244	0.469107
ZNF135	374.2184215	517.8064929	1.383701237	0.468532
WDR4	118.869381	164.4535643	1.383481288	0.468303
TGFBR3	784.7580428	1085.615759	1.383376403	0.468194
PEX11A	288.3683131	398.9110106	1.383338573	0.468154
ZNF584	232.2355498	321.1289194	1.382772446	0.467564
SLC12A2	2459.9358	3401.299731	1.382678251	0.467465
FUT1	50.62955115	70.00388208	1.382668432	0.467455
CTSL	1086.334065	1501.19436	1.381890165	0.466643
ITPRID1	20.91220591	28.89049102	1.38151332	0.466249
FAM83G	188.2098532	260.0144192	1.38151332	0.466249
PI4KAP2	62.73661773	86.67147305	1.38151332	0.466249
TIMM44	257.5503254	355.5752741	1.380605027	0.465301
UHMK1	554.7237778	765.598012	1.380142771	0.464818
ATP2B1	2842.959361	3922.439742	1.379703064	0.464358
MTURN	177.203429	244.4580009	1.379533129	0.46418
MYO1B	1659.768764	2289.015827	1.379117306	0.463745
MMADHC	315.8843735	435.5797107	1.378921363	0.46354
TMCO3	758.3426248	1045.61354	1.378814148	0.463428
INTS4	647.1777408	892.2717033	1.378711978	0.463321
MKS1	159.5931504	220.0122008	1.378581727	0.463185
SPOCK1	695.6060071	958.9420672	1.37857071	0.463173
PTCH2	69.34047223	95.5608549	1.378139661	0.462722
ARL16	117.7687385	162.2312188	1.3775406	0.462095
H2AC21	271.8586768	374.4652105	1.377426003	0.461975
SGMS1	486.483948	670.0371571	1.377305787	0.461849
C1orf43	750.6381279	1033.39064	1.376682854	0.461196
NKIRAS1	108.9635992	150.0083187	1.376682854	0.461196
ASIC2	12.10706658	16.66759097	1.376682854	0.461196
HKDC1	12.10706658	16.66759097	1.376682854	0.461196
TMEM266	12.10706658	16.66759097	1.376682854	0.461196
SRGAP2D	12.10706658	16.66759097	1.376682854	0.461196
ZNF266	499.691657	687.8159208	1.376480698	0.460984
KHNYN	502.9935842	692.2606117	1.376281196	0.460775
SCP2	936.6466963	1288.960368	1.376143613	0.460631
THSD7A	461.1691724	634.4796297	1.375806683	0.460278
TSG101	573.4346989	788.9326393	1.375802059	0.460273
HPS3	669.1905891	920.0510216	1.374871429	0.459297
ACP2	477.6788087	656.7030843	1.374779606	0.4592
NR6A1	103.4603871	142.2301096	1.374730112	0.459148
SP2-DT	27.3842756	1.111172731	24.6444813	4.623193
SNHG30	27.3842756	1.111172731	24.6444813	4.623193
SCUBE3-AS	27.3842756	1.111172731	24.6444813	4.623193
UHRF1	2323.514293	94.44968217	24.60055174	4.620619
PCDH9	5149.07364	210.0116462	24.51803855	4.615772
PVT1	189.2004496	7.77820912	24.3244231	4.604334
TP73	561.7925631	23.33462736	24.07548895	4.589493
H2AC4	641.4559103	26.66814555	24.05326268	4.588161
SLC30A2	185.8811435	7.77820912	23.89767884	4.578799
CALML3-AS	53.10889814	2.222345463	23.89767884	4.578799
TIGAR	26.55444907	1.111172731	23.89767884	4.578799
WDR11-DT	26.55444907	1.111172731	23.89767884	4.578799
ID2-AS1	26.55444907	1.111172731	23.89767884	4.578799
ENSG000002	26.55444907	1.111172731	23.89767884	4.578799
SGO1	690.4156758	28.89049102	23.89767884	4.578799
RALYL	2831.368132	118.8954823	23.81392529	4.573734
PHYHIPL	578.3890938	24.44580009	23.66005987	4.564382
ENSG000002	78.83352067	3.333518194	23.64874468	4.563692
L1CAM	708.6718595	30.00166375	23.62108533	4.562003
ELAVL3	524.4503691	22.22345463	23.59895785	4.560651
CDC45	365.9535012	15.55641824	23.5242776	4.556079
B3GALT9	52.2790716	2.222345463	23.5242776	4.556079
ENSG000002	52.2790716	2.222345463	23.5242776	4.556079
NEUROD1	260.5655315	11.11172731	23.44959736	4.551491
PROX1	3091.103837	132.229555	23.37679981	4.547006
KIF4A	1323.573321	56.6698093	23.35588097	4.545714
RUNDC3A	285.4603275	12.22290005	23.35454977	4.545632
CXCL13	1036.45334	44.44690926	23.31890693	4.543428
PCSK1	958.449646	41.11339106	23.31234718	4.543022
DGKK	1812.341149	77.7820912	23.30023687	4.542273
TFF3	1600.735383	68.89270935	23.23519278	4.53824
SNORD67	25.72462253	1.111172731	23.15087637	4.532995
AHI1-DT	25.72462253	1.111172731	23.15087637	4.532995
ENSG000002	25.72462253	1.111172731	23.15087637	4.532995
CD200R1L-/	25.72462253	1.111172731	23.15087637	4.532995
ZNF804A	411.5939605	17.7787637	23.15087637	4.532995
KIF15	51.44924507	2.222345463	23.15087637	4.532995
RNU4-1	77.1738676	3.333518194	23.15087637	4.532995
DSCC1	843.9335844	36.66870014	23.01509411	4.524508
CDCA7	383.3798584	16.66759097	23.00151588	4.523657
KIT	3781.519513	164.4535643	22.99445153	4.523214
MCM4	6933.200686	302.238983	22.93946538	4.51976
HOXC10	76.34404107	3.333518194	22.90194222	4.517398
SLC6A5	228.2022967	10.00055458	22.81896417	4.512161
SNHG17	101.2388371	4.444690926	22.77747514	4.509536
ENSG000002	50.61941854	2.222345463	22.77747514	4.509536
CDC25A	176.7530516	7.77820912	22.72413211	4.506153
FCGR3B	126.1336331	5.555863657	22.70279489	4.504798
CKAP2	1890.344843	83.33795486	22.68288016	4.503532
CASP8AP2	75.51421454	3.333518194	22.65300806	4.501631
RIMS2	3570.743573	157.7865279	22.63021832	4.500179
TEX47	175.9232251	7.77820912	22.61744604	4.499364
OLFM1	552.6644712	24.44580009	22.60774731	4.498745
DANT2	100.4090105	4.444690926	22.59077453	4.497662
MMP9	599.9645836	26.66814555	22.49742422	4.491688
DLGAP1-AS	49.789592	2.222345463	22.40407391	4.485689
HTR2B	24.894796	1.111172731	22.40407391	4.485689
RPS27P3	24.894796	1.111172731	22.40407391	4.485689
ENSG000002	24.894796	1.111172731	22.40407391	4.485689
ENSG000002	24.894796	1.111172731	22.40407391	4.485689
ENSG000002	24.894796	1.111172731	22.40407391	4.485689
ENSG000002	24.894796	1.111172731	22.40407391	4.485689
NCAPG	869.658207	38.8910456	22.36139948	4.482939
LYNX1	396.6570829	17.7787637	22.3107236	4.479665
BUB1B	936.0443296	42.22456379	22.16824155	4.470422
SNRPCP2	48.95976547	2.222345463	22.03067268	4.461442
ENSG000002	48.95976547	2.222345463	22.03067268	4.461442
H3C1	464.7028587	21.1122819	22.01101998	4.460154
CABP7	219.9040313	10.00055458	21.98918365	4.458722
S100A2	73.02473494	3.333518194	21.9062056	4.453268
SYT13	461.3835526	21.1122819	21.85379841	4.449812
C3orf14	775.8878087	35.55752741	21.82063448	4.447621
SLITRK3	121.1546739	5.555863657	21.80663194	4.446695
SCG2	2794.025938	128.8960368	21.6765853	4.438066
CDH13	72.1949084	3.333518194	21.65727145	4.43678
KIRREL2	48.12993894	2.222345463	21.65727145	4.43678
CPA1	24.06496947	1.111172731	21.65727145	4.43678
NFATC4	24.06496947	1.111172731	21.65727145	4.43678
SLCO1C1	24.06496947	1.111172731	21.65727145	4.43678
TRPM2-AS	24.06496947	1.111172731	21.65727145	4.43678
TTLL7-IT1	24.06496947	1.111172731	21.65727145	4.43678
ENSG000002	24.06496947	1.111172731	21.65727145	4.43678
ENSG000002	24.06496947	1.111172731	21.65727145	4.43678
ENSG000002	24.06496947	1.111172731	21.65727145	4.43678
GAS2L3	1176.694024	54.44746384	21.61154885	4.433731
ATP2B3	672.159492	31.11283648	21.60392841	4.433222
B3GNT5	1343.489158	62.22567296	21.59059265	4.432331
CDC20	263.0550111	12.22290005	21.52148918	4.427706
ENSG000002	119.4950208	5.555863657	21.50791095	4.426795
MBIP	4492.680852	208.9004735	21.50632201	4.426689
PCSK2	978.3654828	45.55808199	21.4751245	4.424595
SNHG16	95.43005134	4.444690926	21.47057083	4.424289
COL10A1	236.500562	11.11172731	21.28387021	4.411689
KCNF1	94.6002248	4.444690926	21.28387021	4.411689
ENSG000002	47.3001124	2.222345463	21.28387021	4.411689
CTSV	638.1366042	30.00166375	21.27004054	4.410751
HJURP	1555.92475	73.33740027	21.21597908	4.407079
SYDE2	5276.866926	248.9026918	21.20052172	4.406028
SYT1	2685.318662	127.7848641	21.01437193	4.393304
POLE2	653.0734818	31.11283648	20.99048353	4.391663
NMU	69.7054288	3.333518194	20.91046898	4.386154
PAX8	8.80513933	24.894796	2.827302904	1.499426
GCNT2	4.402569665	12.447398	2.827302904	1.499426
TUBAL3	4.402569665	12.447398	2.827302904	1.499426
RNU6-171P	4.402569665	12.447398	2.827302904	1.499426
CEP57L1P1	4.402569665	12.447398	2.827302904	1.499426
ENSG000002	4.402569665	12.447398	2.827302904	1.499426
ENSG000002	4.402569665	12.447398	2.827302904	1.499426
CES4A	13.207709	37.342194	2.827302904	1.499426
ZCCHC12	13.207709	37.342194	2.827302904	1.499426
LINC01089	13.207709	37.342194	2.827302904	1.499426
SAMD8	412.7409061	1166.736106	2.826800273	1.49917
H2BC12	1230.518221	3477.803001	2.826291347	1.49891
UBE2W	73.74304189	208.2864599	2.824489668	1.49799
PGAM1	236.6381195	668.0103594	2.822919489	1.497188
PTBP3	1737.914375	4903.444986	2.821453724	1.496439
SSRP1	1987.760204	5607.967712	2.821249616	1.496334
NUDT21	46.22698148	130.2827657	2.818327339	1.494839
NUDCD1	443.5588938	1249.718759	2.817481008	1.494406
ENSG000002	20.91220591	58.91768387	2.817382543	1.494355
PIGC	141.9828717	399.9763891	2.817074935	1.494198
HAUS2	61.63597531	173.4337455	2.813839557	1.49254
MRPL15	277.3618889	780.0369414	2.81234363	1.491773
CRACDL	203.618847	572.580308	2.812020186	1.491607
ZNF804A	146.3854414	411.5939605	2.811713765	1.49145
NRIP3	24.21413316	68.04577574	2.810167735	1.490656
COX7A2	350.0042884	983.344442	2.809521125	1.490324
DPY30	212.4239863	596.6452775	2.808747203	1.489927
ZNF180	309.280519	867.9985539	2.80650898	1.488777
AGO2	1387.910087	3892.716268	2.804732313	1.487863
UBE2D2	219.0278408	614.0716347	2.80362365	1.487293
KATNA1	313.6830886	878.7862988	2.801509965	1.486205
MNS1	119.9700234	336.079746	2.801364345	1.48613
PGBD1	247.6445437	693.7349819	2.801333603	1.486114
TSPAN7	15.40899383	43.15097974	2.80037621	1.485621
RPS13P2	15.40899383	43.15097974	2.80037621	1.485621
MORN3	7.704496914	21.57548987	2.80037621	1.485621
LYPLA1P3	7.704496914	21.57548987	2.80037621	1.485621
ENSG000002	7.704496914	21.57548987	2.80037621	1.485621
SNHG20	7.704496914	21.57548987	2.80037621	1.485621
ENSG000002	7.704496914	21.57548987	2.80037621	1.485621
INPP5F	495.2890873	1386.640137	2.799658165	1.485251
CMSS1	191.5117804	536.0679406	2.799138201	1.484983
GABARAP	34.11991491	95.43005134	2.796901798	1.48383
TENT5D	34.11991491	95.43005134	2.796901798	1.48383
TFF3	572.3340565	1600.735383	2.796855027	1.483805
ENPEP	154.0899383	430.6799708	2.794990871	1.482844
TOP3A	18.71092108	52.2790716	2.794040517	1.482353
RAD1	310.3811614	867.1687274	2.793883248	1.482272
MTATP6P1	1567.314801	4375.67531	2.791829254	1.481211
TSNARE1	177.203429	494.5766139	2.791010403	1.480788
VAMP3	180.5053563	503.7047058	2.79052498	1.480537
FA2H	22.01284833	61.40716347	2.789605532	1.480061
NDUFA4L2	22.01284833	61.40716347	2.789605532	1.480061
ANKRD18CF	11.00642416	30.70358173	2.789605532	1.480061
SHC4	11.00642416	30.70358173	2.789605532	1.480061
ENSG000002	11.00642416	30.70358173	2.789605532	1.480061
BRMS1L	223.4304105	623.1997266	2.789234129	1.479869
SLC24A3	201.4175622	560.9627366	2.785073608	1.477715
ENSG000002	14.30835141	39.8316736	2.783805936	1.477059
ALG10	345.6017187	961.7689522	2.782882434	1.47658
ZNF8	49.52890873	137.7512045	2.781228338	1.475722
THOC3	208.0214167	578.3890938	2.78043051	1.475308
COX6B1	286.1670282	794.973819	2.778006341	1.47405
PELI1	286.1670282	794.973819	2.778006341	1.47405
MT-ND3	1890.903671	5251.142303	2.77705437	1.473555
SPATA33	34.11991491	94.6002248	2.772580913	1.47123
MRTO4	105.661672	292.9287663	2.77232757	1.471098
ANKRD18B	71.54175706	198.3285415	2.772206745	1.471035
SLC4A8	77.04496914	213.2654191	2.768064177	1.468877
KLF10	1438.539638	3979.848054	2.76658908	1.468108
GPN3	115.5674537	319.4832153	2.76447951	1.467005
MTCO1P12	23.11349074	63.89664307	2.76447951	1.467005
RNU6-118P	6.603854498	18.25618373	2.76447951	1.467005
ENSG000002	6.603854498	18.25618373	2.76447951	1.467005
BEST2	3.301927249	9.128091867	2.76447951	1.467005
FGF1	3.301927249	9.128091867	2.76447951	1.467005
APLN	3.301927249	9.128091867	2.76447951	1.467005
SLC66A1L	3.301927249	9.128091867	2.76447951	1.467005
CLVS1	3.301927249	9.128091867	2.76447951	1.467005
FBXO39	3.301927249	9.128091867	2.76447951	1.467005
OR11H13P	3.301927249	9.128091867	2.76447951	1.467005
LINC00702	3.301927249	9.128091867	2.76447951	1.467005
SELENOTP1	3.301927249	9.128091867	2.76447951	1.467005
BRWD1-AS2	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
PLD5P1	3.301927249	9.128091867	2.76447951	1.467005
C2orf81	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
ENSG000002	3.301927249	9.128091867	2.76447951	1.467005
HAGHL	9.905781747	27.3842756	2.76447951	1.467005
TRIM67	9.905781747	27.3842756	2.76447951	1.467005
RHEBP2	9.905781747	27.3842756	2.76447951	1.467005
RNASEH1-D	9.905781747	27.3842756	2.76447951	1.467005
ANKRD65	9.905781747	27.3842756	2.76447951	1.467005
SNHG30	9.905781747	27.3842756	2.76447951	1.467005

GATB	170.5995745	234.4574463	1.374314367	0.458712
RAPGEF3	79.24625397	108.8949277	1.374133441	0.458522
NUP210L	39.62312699	54.44746384	1.374133441	0.458522
TUBB6	482.0813783	662.2589479	1.373749283	0.458119
CRIPT	122.1713082	167.7870824	1.373375508	0.457726
CAPN8	55.03212081	75.55974574	1.3730117	0.457344
GJA4	27.51606041	37.77987287	1.3730117	0.457344
RAP2B	285.0663858	391.1328015	1.372076193	0.456361
FUCA2	460.06853	631.1461115	1.371852388	0.456125
FLNB	14955.52915	20516.69331	1.3718467	0.456119
POLR1C	187.1092108	256.680901	1.371823973	0.456095
AHCYL2	497.4903722	682.2600571	1.371403539	0.455653
BCL9	1732.411163	2375.6873	1.371318397	0.455564
TMEM104	221.2291257	303.3501557	1.371203519	0.455443
MAN2A1	682.3982981	935.6074399	1.371057698	0.455289
SH2B3	104.5610295	143.3412824	1.370886295	0.455109
SYNGR2	882.7152179	1210.067105	1.370846543	0.455067
AGMAT	15.40899383	21.1122819	1.370127221	0.45431
AKAP5	15.40899383	21.1122819	1.370127221	0.45431
RPL17P39	15.40899383	21.1122819	1.370127221	0.45431
ENSG000002	15.40899383	21.1122819	1.370127221	0.45431
DDX31	302.6766645	414.4674288	1.369340545	0.453481
PSD3	1139.164901	1558.975342	1.368524733	0.452622
ABCB7	430.3511848	588.9215477	1.368467355	0.452561
PLBD2	795.764467	1088.949277	1.368431643	0.452523
ZDHHC4	291.6702403	398.9110106	1.367678136	0.451729
CALCOCO2	900.3254965	1231.179386	1.367482528	0.451522
POLR3A	919.0364176	1256.736359	1.367450011	0.451488
RBM45	173.9015018	237.7909645	1.367388793	0.451424
SLCO5A1	376.4197064	514.4729747	1.366753562	0.450753
MRFAP1L1	236.6381195	323.3512648	1.366437772	0.45042
ZFHX4	679.0963709	927.8292308	1.366270342	0.450243
TOP3A	18.71092108	25.55697282	1.365885341	0.449836
EIF5A2	74.84368431	102.2278913	1.365885341	0.449836
ZNF142	1326.274112	1811.211552	1.365638925	0.449576
HSP90AB1	6400.235651	8739.373533	1.365476837	0.449405
LMF2	458.9678876	626.7014205	1.365458102	0.449385
KLHDC4	305.9785917	417.800947	1.365458102	0.449385
MGRN1	1010.389738	1378.96536	1.364785595	0.448674
EMC4	278.4625313	380.0210742	1.364711699	0.448596
ENSG000002	40.7237694	55.55863657	1.364280306	0.44814
ABCA2	2956.32553	4032.445842	1.364006027	0.44785
SNX29	564.6295596	770.0427029	1.363801611	0.447634
SLC22A15	62.73661773	85.56030032	1.363801611	0.447634
PUF60	62.73661773	85.56030032	1.363801611	0.447634
CTNNB1	3953.507559	5390.29892	1.363421933	0.447232
ZNF665	238.8394043	325.5736103	1.363148645	0.446943
MAPK14	569.0321292	775.5985665	1.363013663	0.4468
DM1-AS	22.01284833	30.00166375	1.362916025	0.446697
PRKCH	446.860821	608.9226568	1.362667364	0.446433
ANKLE2	1035.704514	1411.189369	1.362540522	0.446299
WWC2	624.06425	850.0471396	1.362114781	0.445848
RNF215	69.34047223	94.44968217	1.362114781	0.445848
KLHL36	416.0428334	566.698093	1.362114781	0.445848
WFS1	603.1520441	821.1566485	1.361442204	0.445136
PEX2	540.4154264	735.5963482	1.361168302	0.444845
ZZEF1	2440.124237	3321.295294	1.361117292	0.444791
BCR	724.2227099	985.6102128	1.360921439	0.444584
RIPOR3	50.62955115	68.89270935	1.360721314	0.444372
SEC14L5	50.62955115	68.89270935	1.360721314	0.444372
OSGIN1	50.62955115	68.89270935	1.360721314	0.444372
ELOVL4	25.31477557	34.44635467	1.360721314	0.444372
ARHGAP4	227.8329802	310.0171921	1.360721314	0.444372
PFKM	509.5974387	693.3717844	1.36062651	0.444271
SPTSSA	155.1905807	211.122819	1.360410007	0.444042
ALKBH5	716.518213	974.4984855	1.360047055	0.443657
FLCN	241.0406892	327.7959558	1.359919592	0.443521
SRRM2	33543.17828	45614.7518	1.359881625	0.443481
LYSMD4	107.8629568	146.6748005	1.359825513	0.443422
ELF4	165.0963624	224.4568918	1.359550801	0.44313
VPS53	197.0149925	267.7926283	1.359249998	0.442811
DCTN3	200.3169198	272.2373192	1.359033074	0.442581
UCK2	143.0835141	194.455228	1.359033074	0.442581
NOP16	175.0021442	237.7909645	1.358788863	0.442321
SLC52A3	89.15203572	121.1178277	1.358553697	0.442072
EBNA1BP2	598.7494745	813.3784394	1.358462051	0.441974
TPD52L2	302.6766645	411.1339106	1.358327083	0.441831
GFM1	947.6531204	1286.738023	1.357815423	0.441287
CMTM4	191.5117804	260.0144192	1.357694125	0.441158
FBXO4	63.83726015	86.67147305	1.357694125	0.441158
GDE1	686.8008678	932.2739217	1.357415177	0.440862
ZNF653	134.2783748	182.232328	1.357123425	0.440552
APEH	575.6359837	781.1544302	1.357028491	0.440451
KIAA1191	665.8886619	903.3834307	1.356658376	0.440057
CHD1L	35.22055732	47.78042745	1.356606229	0.440002
HSD17B7	105.661672	143.3412824	1.356606229	0.440002
MFSD12	449.0621058	608.9226568	1.355987622	0.439344
SIPA1L2	975.1691808	1322.29555	1.355965279	0.43932
IFI35	80.34689639	108.8949277	1.355309696	0.438623
LPIN2	948.7537628	1285.62685	1.35506904	0.438366
MYH1	41.82441182	56.6698093	1.354945756	0.438235
RHCE	41.82441182	56.6698093	1.354945756	0.438235
BAG1	215.7259136	292.2384284	1.354674659	0.437946
KIF23	86.95075089	117.7843095	1.354609458	0.437877
RAB15	90.25267814	122.2290005	1.354297767	0.437545
RCC1	135.3790172	183.3435007	1.354297767	0.437545
GLIPR1	315.8843735	427.8015016	1.354297767	0.437545
RPL7L1	238.8394043	323.3512648	1.353843876	0.437061
TMEM53	100.1584599	135.5630732	1.353486	0.43668
SMARCD2	604.2526865	817.8231303	1.353445584	0.436637
EFEMP2	413.8415485	560.0310566	1.353249954	0.436428
APTR	23.23514293	1.111172731	20.91046898	4.386154
MIR2052HG	23.23514293	1.111172731	20.91046898	4.386154
ENSG000002	23.23514293	1.111172731	20.91046898	4.386154
ENSG000002	23.23514293	1.111172731	20.91046898	4.386154
HAGLR	116.1757147	5.555863657	20.91046898	4.386154
TINCR	46.47028587	2.222345463	20.91046898	4.386154
ZNF667-AS1	92.1107452	4.444690926	20.72376837	4.373214
POLQ	1772.509475	85.56030032	20.71649432	4.372708
CCDC102B	873.8073396	42.22456379	20.69428932	4.371161
STMN1	9510.641899	460.0255108	20.67416192	4.369757
E2F7	937.7039827	45.55808199	20.58260449	4.363354
BEX1	1759.232251	85.56030032	20.56131458	4.361861
MIR17HG	45.64045934	2.222345463	20.53706775	4.360158
LINC00667	113.6862351	5.555863657	20.4623875	4.354903
PHACTR3	793.3141659	38.8910456	20.39837586	4.350382
LINC00641	180.0723577	8.889381852	20.25701683	4.34035
SLC25A25-A	44.8106328	2.222345463	20.16366652	4.333686
ENSG000002	22.4053164	1.111172731	20.16366652	4.333686
ZNF674-AS1	22.4053164	1.111172731	20.16366652	4.333686
OLMALINC	22.4053164	1.111172731	20.16366652	4.333686
LINC02762	22.4053164	1.111172731	20.16366652	4.333686
ENSG000002	22.4053164	1.111172731	20.16366652	4.333686
KPNA2	5027.089139	250.0138646	20.10724144	4.329643
CRMP1	1472.942097	73.33740027	20.0844602	4.328008
RIBC2	222.3935109	11.11172731	20.01430603	4.32296
SNCAIP	621.5400735	31.11283648	19.9769659	4.320266
ZFAS1	66.38612267	3.333518194	19.91473236	4.315764
DLEU2	66.38612267	3.333518194	19.91473236	4.315764
SEC11C	3980.677881	200.0110917	19.90228566	4.314862
LINC01205	43.98080627	2.222345463	19.79026529	4.306719
ENSG000002	43.98080627	2.222345463	19.79026529	4.306719
SLC8A3	439.8080627	22.22345463	19.79026529	4.306719
COTL1	2435.540875	123.3401732	19.74653361	4.303528
DRC1	328.6113072	16.66759097	19.71558504	4.301265
LRRC15	109.5371024	5.555863657	19.71558504	4.301265
DGKB	1067.156922	54.44746384	19.59975445	4.292764
POU4F1	304.5463377	15.55641824	19.57689315	4.29108
XKR7	130.2827657	6.667036389	19.54133113	4.288457
DEPDC1	928.5758908	47.78042745	19.43423155	4.280528
BARHL1	21.57548987	1.111172731	19.41686405	4.279238
TMEM11-DT	21.57548987	1.111172731	19.41686405	4.279238
HHIP-AS1	21.57548987	1.111172731	19.41686405	4.279238
KDM7A-DT	21.57548987	1.111172731	19.41686405	4.279238
DLGAP1-AS	21.57548987	1.111172731	19.41686405	4.279238
ENSG000002	21.57548987	1.111172731	19.41686405	4.279238
PRELID2	149.368776	7.77820912	19.20349192	4.263297
KLHL14	126.9634596	6.667036389	19.04346282	4.251224
SERPINB5	63.06681654	3.333518194	18.91899575	4.241764
ATAD2	10868.23811	577.8098203	18.80936897	4.23338
CAMK1D	2347.579263	125.5625187	18.69649708	4.224696
PLCXD2	41.49132667	2.222345463	18.67006159	4.222655
HAT1	20.74566333	1.111172731	18.67006159	4.222655
ONECUT1	20.74566333	1.111172731	18.67006159	4.222655
HLCS-AS1	20.74566333	1.111172731	18.67006159	4.222655
FRMD3-AS1	20.74566333	1.111172731	18.67006159	4.222655
IPO9-AS1	20.74566333	1.111172731	18.67006159	4.222655
ENSG000002	20.74566333	1.111172731	18.67006159	4.222655
EPCAM-DT	20.74566333	1.111172731	18.67006159	4.222655
ENSG000002	20.74566333	1.111172731	18.67006159	4.222655
ENSG000002	20.74566333	1.111172731	18.67006159	4.222655
ENSG000002	20.74566333	1.111172731	18.67006159	4.222655
SHISAL1	103.7283167	5.555863657	18.67006159	4.222655
ATP1A3	123.6441535	6.667036389	18.54559451	4.213005
LYPD5	61.40716347	3.333518194	18.42112744	4.203289
LINC00342	61.40716347	3.333518194	18.42112744	4.203289
ZNF395	81.32300027	4.444690926	18.29666036	4.193508
ZRANB2-DT	40.66150013	2.222345463	18.29666036	4.193508
GPSM2	1479.580709	81.11560939	18.24039442	4.189065
BIRC5	344.3780113	18.88993643	18.23076602	4.188303
ENSG000002	60.57733694	3.333518194	18.17219328	4.183661
FSD1	141.0705107	7.77820912	18.13663126	4.180835
EZH2	1349.297943	74.44857301	18.12389263	4.179821
CENPU	882.105605	48.89160018	18.04206861	4.173293
CENPH	140.2406841	7.77820912	18.02994519	4.172323
SFN	499.5555731	27.77931829	17.98300332	4.168562
LINC00467	39.8316736	2.222345463	17.92325913	4.163761
ENSG000002	39.8316736	2.222345463	17.92325913	4.163761
TCL6	19.9158368	1.111172731	17.92325913	4.163761
IGHG1	19.9158368	1.111172731	17.92325913	4.163761
ENSG000002	19.9158368	1.111172731	17.92325913	4.163761
INTS6-AS1	19.9158368	1.111172731	17.92325913	4.163761
UQCRBP1	19.9158368	1.111172731	17.92325913	4.163761
ENSG000002	19.9158368	1.111172731	17.92325913	4.163761
RBFADN	19.9158368	1.111172731	17.92325913	4.163761
ENSG000002	19.9158368	1.111172731	17.92325913	4.163761
TCF12-DT	19.9158368	1.111172731	17.92325913	4.163761
ENSG000002	19.9158368	1.111172731	17.92325913	4.163761
MLLT11	199.158368	11.11172731	17.92325913	4.163761
CDKAL1	5892.598213	328.9071285	17.91569018	4.163152
ST8SIA3	453.9151138	25.55697282	17.76091077	4.150634
SLC36A4	2742.576693	154.4530097	17.75670606	4.150292
DPYSL4	315.3340827	17.7787637	17.73655851	4.148654
C4orf54	1240.590667	70.00388208	17.721741	4.147448
HELLS	1663.802199	94.44968217	17.61575223	4.138794
AVPR1A	117.0055412	6.667036389	17.5498579	4.133387
APLP1	1127.734259	64.44801842	17.49835428	4.129147
SNORA22	116.1757147	6.667036389	17.42539082	4.123119
LIFR-AS1	58.08785734	3.333518194	17.42539082	4.123119
ENSG000002	58.08785734	3.333518194	17.42539082	4.123119
LINC00632	1199.099341	68.89270935	17.40531548	4.121456
DPYSL5	688.7560227	40.00221833	17.21794569	4.105841
ABHD17B	108.9635992	301.2270316	2.764473951	1.467005
PIF1	26.41541799	73.02473494	2.764473951	1.467005
ENSG000002	26.41541799	73.02473494	2.764473951	1.467005
DDX3P3	16.50963624	45.64045934	2.764473951	1.467005
ENSG000002	13.207709	36.51236747	2.764473951	1.467005
SIKE1	213.5246288	590.0066652	2.763178508	1.466329
MRE11	564.6295596	1560.073883	2.763004268	1.466238
HENMT1	225.6316953	623.1997266	2.762022089	1.465725
RBM38	224.5310529	619.8804204	2.76077813	1.465075
FUT8	304.8779493	841.4441048	2.759937564	1.464636
BNIP3L	460.06853	1269.634596	2.759664079	1.464493
ZKSCAN2	228.9336226	630.6681654	2.754807958	1.461952
SLC48A1	28.61670282	78.83352067	2.754807958	1.461952
NRAV	28.61670282	78.83352067	2.754807958	1.461952
SERBP1P5	28.61670282	78.83352067	2.754807958	1.461952
LRRC20	79.24625397	218.2443783	2.754002459	1.46153
RPS27AP16	22.01284833	60.57733694	2.75190816	1.460432
GTF2H5	125.4732355	345.2078379	2.751246803	1.460086
FZD6	911.3319207	2506.905957	2.750815483	1.459859
MAIP1	59.43469048	163.4758271	2.750511961	1.4597
ELF4	165.0963624	453.9151138	2.749395002	1.459114
ZFP69B	86.95075089	238.9900416	2.748567887	1.45868
CACNA2D2	307.0792341	843.9335844	2.748260027	1.458519
RADIL	34.11991491	93.77039827	2.748260027	1.458519
SEMA6D	148.5867262	408.2746544	2.747719563	1.458235
COX6A1	95.75589022	263.0550111	2.747141826	1.457931
ARL6IP1	919.0364176	2524.332315	2.746716306	1.457708
ENSG000002	46.22698148	126.9634596	2.746522821	1.457606
UBQLN3	15.40899383	42.3211532	2.746522821	1.457606
MT-ND4L	1844.67669	5062.77168	2.744530631	1.456559
FABP4	12.10706658	33.19306133	2.741627059	1.455032
P2RY11	12.10706658	33.19306133	2.741627059	1.455032
STXBP1	549.2205657	1505.305332	2.740802922	1.454599
FANCL	268.5567496	736.0561351	2.740784345	1.454589
CFAP276	20.91220591	57.2580308	2.738019655	1.453133
SLC25A21	29.71734524	81.32300027	2.736549972	1.452358
DNAJB11	233.3361923	638.1366042	2.734837652	1.451455
SRGAP2C	88.0513933	240.6496947	2.733059474	1.450517
ADRA1B	8.80513933	24.06496947	2.733059474	1.450517
CLPB	331.2933673	905.3407479	2.732746373	1.450352
DCAF12	286.1670282	781.6965944	2.731609575	1.449751
ADGRG2	58.33404806	159.3266944	2.731281296	1.449578
NEDD1	591.0449776	1614.012607	2.730777976	1.449312
PSMC3	427.0492575	1165.906279	2.730144729	1.448977
ARPP19	316.9850159	864.6792478	2.727823728	1.44775
TDRD7	287.2676707	783.3562475	2.726921013	1.447273
MYCT1	14.30835141	39.00184707	2.725809979	1.446685
SOCS1	14.30835141	39.00184707	2.725809979	1.446685
GSKIP	48.42826632	131.9424188	2.72449189	1.445987
HSPA2	107.8629568	293.7585928	2.723442798	1.445432
CDK7	19.81156349	53.93872467	2.722587982	1.444979
CHTF18	95.75589022	260.5655315	2.721143638	1.444213
SBF2-AS1	25.31477557	68.87560227	2.720766853	1.444013
CEP131	157.3918655	428.1904912	2.72053762	1.443892
BCL2L11	348.903646	948.4917276	2.718491878	1.442807
RANBP1	140.8822293	382.5500319	2.715388831	1.441159
ENSG000002	16.50963624	44.8106328	2.714210788	1.440533
PIK3C2G	49.52890873	134.4318984	2.714210788	1.440533
VN1R1	11.00642416	29.8737552	2.714210788	1.440533
KCNH4	5.503212081	14.9368776	2.714210788	1.440533
CHIA	5.503212081	14.9368776	2.714210788	1.440533
FCN3	5.503212081	14.9368776	2.714210788	1.440533
AMER2	5.503212081	14.9368776	2.714210788	1.440533
RAB26	5.503212081	14.9368776	2.714210788	1.440533
PLCG2	5.503212081	14.9368776	2.714210788	1.440533
PDC-AS1	5.503212081	14.9368776	2.714210788	1.440533
HSPD1P11	5.503212081	14.9368776	2.714210788	1.440533
ENSG000002	5.503212081	14.9368776	2.714210788	1.440533
ENSG000002	5.503212081	14.9368776	2.714210788	1.440533
YWHAQ	2643.743084	7163.892463	2.709753647	1.438162
SKIDA1	29.71734524	80.49317374	2.708625992	1.437561
ID1	72.64239948	196.6688884	2.70735672	1.436885
SLC8A2	26.41541799	71.36508187	2.701644997	1.433838
TTLL9	13.207709	35.68254093	2.701644997	1.433838
ANXA2R-OT	13.207709	35.68254093	2.701644997	1.433838
HIGD1A	13.207709	35.68254093	2.701644997	1.433838
KCTD15	107.8629568	291.2691132	2.700362774	1.433153
MTSS1	201.4175622	543.5363794	2.698555049	1.432187
EIF1AX	203.618847	549.3451651	2.697909222	1.431842
CYP26B1	44.02569665	118.6651943	2.695362102	1.430479
NPM1P27	51.73019357	139.4108576	2.694961066	1.430264
NDUFS4	236.6381195	637.3067776	2.693170394	1.429306
GEMIN7	23.11349074	62.23699	2.692669433	1.429037
GLDN	15.40899383	41.49132667	2.692669433	1.429037
BBC3	7.704496914	20.74566333	2.692669433	1.429037
ONECUT1	7.704496914	20.74566333	2.692669433	1.429037
PDCL3P5	7.704496914	20.74566333	2.692669433	1.429037
ENSG000002	7.704496914	20.74566333	2.692669433	1.429037
FRMD3-AS1	7.704496914	20.74566333	2.692669433	1.429037
ENSG000002	7.704496914	20.74566333	2.692669433	1.429037
SMIM12	102.3597447	275.5024091	2.691511295	1.428416
MEST	261.9528951	703.6929003	2.68633374	1.425639
PCNT	1791.845854	4812.993894	2.686053537	1.425488
MCM3AP-AS	45.12633907	121.1546739	2.684788449	1.424808
ATG4D	79.24625397	212.4355925	2.680702013	1.422611
EMID1	9.905781747	26.55444907	2.680702013	1.422611
ENSG000002	9.905781747	26.55444907	2.680702013	1.422611
SEPHS1	464.4710997	1244.7398	2.679907966	1.422183
PSMB6	444.6595362	1191.630902	2.679872588	1.422164
CEP85L	320.2869431	858.0406355	2.678974756	1.421681
DMAC2L	115.5674537	309.5252969	2.678308529	1.421322

FBXL20	417.1434758	564.4757476	1.353193278	0.436368
PYGL	278.4625313	376.687556	1.352740543	0.435885
NYNRIN	281.7644586	381.1322469	1.352662606	0.435802
ALDH9A1	1026.899374	1388.965914	1.352582297	0.435716
C12orf43	61.63597531	83.33795486	1.352099232	0.435201
ANKRD33B	64.93790256	87.78264578	1.351793672	0.434875
RPL35	873.9100785	1181.176614	1.351599715	0.434668
POLR1A	1358.192742	1835.657352	1.351544075	0.434609
EXOC1	712.1156433	962.2755854	1.351291176	0.434339
ALDH1L2	234.4368347	316.6842285	1.350829655	0.433846
SDC4	749.5374855	1012.278358	1.350537335	0.433534
MCMBP	759.4432672	1025.612431	1.350479325	0.433472
RMND1	257.5503254	347.7970649	1.350404292	0.433391
GOLGA3	2500.65957	3376.853931	1.350385303	0.433371
XRRA1	287.2676707	387.7992833	1.349957976	0.432914
ZMPSTE24	1352.68953	1825.656798	1.349649537	0.432585
PACS1	977.3704657	1318.962032	1.349500602	0.432426
PPP2R5D	346.7023611	467.8037199	1.349294878	0.432206
RABEPK	232.2355498	313.3507103	1.349279688	0.432189
PKHD1L1	117.7687385	158.8977006	1.349234972	0.432142
ADSS1	127.6745203	172.2317734	1.348990957	0.431881
ZDHHC2	396.2312699	534.4740838	1.348894256	0.431777
ASB16-AS1	150.788011	203.3446099	1.34854627	0.431405
PERP	698.9079343	942.2744763	1.348209728	0.431045
WNK2	3773.002203	5084.726419	1.347660602	0.430457
MED29	253.1477557	341.1300286	1.347553043	0.430342
CHUK	289.4689555	390.0216287	1.347369455	0.430145
ZNF32	342.2997915	461.1366835	1.347171967	0.429934
MBD1	368.7152095	496.694211	1.347094446	0.429851
BPGM	95.75589022	128.8960368	1.346089902	0.428775
BTN2A1	23.11349074	31.11283648	1.346089902	0.428775
STAG3L4	19.81156349	26.66814555	1.346089902	0.428775
PRDM7	9.905781747	13.33407278	1.346089902	0.428775
DYNLT5	9.905781747	13.33407278	1.346089902	0.428775
RPSAP12	9.905781747	13.33407278	1.346089902	0.428775
ABCA11P	9.905781747	13.33407278	1.346089902	0.428775
VPS18	307.0792341	413.3562561	1.346089902	0.428775
ABHD17A	184.9079259	248.9026918	1.346089902	0.428775
PLIN1	62.73661773	84.44912759	1.346089902	0.428775
ATG9B	33.01927249	44.44690926	1.346089902	0.428775
SUPT16HP1	33.01927249	44.44690926	1.346089902	0.428775
CYP51A1	29.71734524	40.00221833	1.346089902	0.428775
C1orf226	29.71734524	40.00221833	1.346089902	0.428775
GCKR	16.50963624	22.22345463	1.346089902	0.428775
HTRA4	16.50963624	22.22345463	1.346089902	0.428775
PAIP1P2	16.50963624	22.22345463	1.346089902	0.428775
MAP7D2	16.50963624	22.22345463	1.346089902	0.428775
ENSG000002	16.50963624	22.22345463	1.346089902	0.428775
ENSG000002	52.83083598	71.11505481	1.346089902	0.428775
MPO	6.603854498	8.889381852	1.346089902	0.428775
GSG1	6.603854498	8.889381852	1.346089902	0.428775
KCNS1	6.603854498	8.889381852	1.346089902	0.428775
PLGLB2	6.603854498	8.889381852	1.346089902	0.428775
HNF1A	6.603854498	8.889381852	1.346089902	0.428775
CRIP3	6.603854498	8.889381852	1.346089902	0.428775
LPAR4	6.603854498	8.889381852	1.346089902	0.428775
POU4F2	6.603854498	8.889381852	1.346089902	0.428775
SHOX2	6.603854498	8.889381852	1.346089902	0.428775
TRIM72	6.603854498	8.889381852	1.346089902	0.428775
EXOSC4	6.603854498	8.889381852	1.346089902	0.428775
CPSF4L	6.603854498	8.889381852	1.346089902	0.428775
RNF224	6.603854498	8.889381852	1.346089902	0.428775
KPNB1-DT	6.603854498	8.889381852	1.346089902	0.428775
ENSG000002	6.603854498	8.889381852	1.346089902	0.428775
LY75	3.301927249	4.444690926	1.346089902	0.428775
MANBAL	3.301927249	4.444690926	1.346089902	0.428775
TREH	3.301927249	4.444690926	1.346089902	0.428775
GFRA4	3.301927249	4.444690926	1.346089902	0.428775
SYT5	3.301927249	4.444690926	1.346089902	0.428775
HIGD1B	3.301927249	4.444690926	1.346089902	0.428775
GFRA3	3.301927249	4.444690926	1.346089902	0.428775
KCNF1	3.301927249	4.444690926	1.346089902	0.428775
PGLYRP4	3.301927249	4.444690926	1.346089902	0.428775
ATOH7	3.301927249	4.444690926	1.346089902	0.428775
OR3A1	3.301927249	4.444690926	1.346089902	0.428775
EPGN	3.301927249	4.444690926	1.346089902	0.428775
GOLGA6L4	3.301927249	4.444690926	1.346089902	0.428775
PAQR9	3.301927249	4.444690926	1.346089902	0.428775
OR6K3	3.301927249	4.444690926	1.346089902	0.428775
BTBD17	3.301927249	4.444690926	1.346089902	0.428775
OR1C1	3.301927249	4.444690926	1.346089902	0.428775
SRSF3P4	3.301927249	4.444690926	1.346089902	0.428775
HNRNPA3P1	3.301927249	4.444690926	1.346089902	0.428775
MRPS18AP1	3.301927249	4.444690926	1.346089902	0.428775
SPDYE21	3.301927249	4.444690926	1.346089902	0.428775
ZNF232-AS1	3.301927249	4.444690926	1.346089902	0.428775
RPL26P30	3.301927249	4.444690926	1.346089902	0.428775
RPL9P7	3.301927249	4.444690926	1.346089902	0.428775
RAD21P1	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
MAPK6P5	3.301927249	4.444690926	1.346089902	0.428775
PRXL2AP2	3.301927249	4.444690926	1.346089902	0.428775
NAP1L1P1	3.301927249	4.444690926	1.346089902	0.428775
NLRP9P1	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
BAZ1A-AS1	3.301927249	4.444690926	1.346089902	0.428775
VPS35P1	3.301927249	4.444690926	1.346089902	0.428775
SMIM47	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775

SRRM2-AS1	38.17202053	2.222345463	17.17645666	4.102361
BIVM	19.08601027	1.111172731	17.17645666	4.102361
BORCS7	19.08601027	1.111172731	17.17645666	4.102361
GCSHP5	19.08601027	1.111172731	17.17645666	4.102361
ENSG000002	19.08601027	1.111172731	17.17645666	4.102361
RAB35-AS1	19.08601027	1.111172731	17.17645666	4.102361
RBFOX3	151.8582556	8.889381852	17.08310636	4.094498
FRMD3	720.289431	42.22456379	17.05854049	4.092422
TUBB1	56.42820427	3.333518194	16.92752251	4.081299
ATAD5	1482.070189	87.78264578	16.8834076	4.077534
ENSG000002	37.342194	2.222345463	16.80305543	4.070652
H2BC6	595.815451	35.55752741	16.75638028	4.066639
ECT2	2919.329744	174.4541188	16.73408323	4.064718
ENSG000002	92.94057174	5.555863657	16.72837519	4.064225
TOX3	2304.428283	137.7854187	16.72476163	4.063914
CHST8	184.2214904	11.11172731	16.57901469	4.051286
GRM2	110.3669289	6.667036389	16.55412128	4.049119
MIRLET7A1	110.3669289	6.667036389	16.55412128	4.049119
IL2RB	420.7220524	25.55697282	16.46212387	4.041079
ENSG000002	54.7685512	3.333518194	16.4296542	4.03823
ENSG000002	36.51236747	2.222345463	16.4296542	4.03823
SULT1A1	18.25618373	1.111172731	16.4296542	4.03823
LINC02976	18.25618373	1.111172731	16.4296542	4.03823
ENSG000002	18.25618373	1.111172731	16.4296542	4.03823
ENSG000002	18.25618373	1.111172731	16.4296542	4.03823
POC1B-AS1	18.25618373	1.111172731	16.4296542	4.03823
GAS6-DT	18.25618373	1.111172731	16.4296542	4.03823
ENSG000002	18.25618373	1.111172731	16.4296542	4.03823
ENSG000002	18.25618373	1.111172731	16.4296542	4.03823
SLC38A3	378.4008992	23.33462736	16.21628207	4.019371
SMC4	2846.305009	175.5652916	16.2122307	4.019011
ADGRB1	918.6179724	56.6698093	16.21000642	4.018813
HABP2	180.0723577	11.11172731	16.20561346	4.018422
CNTFR	339.3990521	21.1122819	16.07590566	4.006828
ANXA2R-O	35.68254093	2.222345463	16.05625297	4.005063
NIHCOLE	35.68254093	2.222345463	16.05625297	4.005063
ENSG000002	35.68254093	2.222345463	16.05625297	4.005063
ENSG000002	35.68254093	2.222345463	16.05625297	4.005063
UNC13C	779.2071148	48.89160018	15.93744349	3.994348
GLRB	106.2177963	6.667036389	15.93178589	3.993836
RPL36A	53.10889814	3.333518194	15.93178589	3.993836
FAR2	829.8265334	52.22511838	15.88941412	3.989994
COLCA1	2294.470365	144.4524551	15.88391394	3.989495
PSRC1	175.9232251	11.11172731	15.83221223	3.984791
RAB3B	994.9620135	63.33684569	15.70905533	3.973525
ENSG000002	69.7054288	4.444690926	15.68285174	3.971116
MED20	34.8527144	2.222345463	15.68285174	3.971116
NOTCH2NL	34.8527144	2.222345463	15.68285174	3.971116
PTMAP4	17.4263572	1.111172731	15.68285174	3.971116
SUCLG2-DT	17.4263572	1.111172731	15.68285174	3.971116
SOX2-OT	17.4263572	1.111172731	15.68285174	3.971116
GATD1-DT	17.4263572	1.111172731	15.68285174	3.971116
VASH1-AS1	17.4263572	1.111172731	15.68285174	3.971116
ENSG000002	17.4263572	1.111172731	15.68285174	3.971116
ENSG000002	17.4263572	1.111172731	15.68285174	3.971116
ENSG000002	17.4263572	1.111172731	15.68285174	3.971116
GABPB1-IT1	52.2790716	3.333518194	15.68285174	3.971116
SMC2	5391.382987	346.6858922	15.55120387	3.958954
TMEM97	1830.597333	117.7843095	15.54194561	3.958095
SNORD17	551.8346447	35.55752741	15.5194887	3.956009
SH3GL2	292.0989397	18.88993643	15.46320395	3.950767
PLP2	1855.492129	120.006655	15.46157693	3.950616
CENPI	549.3451651	35.55752741	15.44947597	3.949486
CDH10	274.6725825	17.7787637	15.44947597	3.949486
DRD1	205.7969803	13.33407278	15.43391758	3.948032
LINC01278	238.9900416	15.55641824	15.36279354	3.941369
BLM	528.5995018	34.44635467	15.34558611	3.939752
ZKSCAN2-D	34.02288787	2.222345463	15.3094505	3.936351
CDK5R1	373.42194	24.44580009	15.27550494	3.933148
MEIS2	848.0827171	55.55863657	15.26464236	3.932122
RBBP8	1917.729119	126.6736914	15.13912714	3.92021
FEN1	971.7268706	64.44801842	15.07768422	3.914343
KIF19	1121.925473	74.44857301	15.06980494	3.913589
DDIAS	468.0221648	31.11283648	15.04273534	3.910995
EBLN3P	399.1465625	26.66814555	14.96716604	3.903729
SYT5	66.38612267	4.444690926	14.93604927	3.900727
PROX1-AS1	33.19306133	2.222345463	14.93604927	3.900727
MIR4453HG	33.19306133	2.222345463	14.93604927	3.900727
ENSG000002	33.19306133	2.222345463	14.93604927	3.900727
STN1	16.59653067	1.111172731	14.93604927	3.900727
IL1RL1	16.59653067	1.111172731	14.93604927	3.900727
SDS	16.59653067	1.111172731	14.93604927	3.900727
DET1	16.59653067	1.111172731	14.93604927	3.900727
GPR37L1	16.59653067	1.111172731	14.93604927	3.900727
RPS12P16	16.59653067	1.111172731	14.93604927	3.900727
LINC00951	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	16.59653067	1.111172731	14.93604927	3.900727
PPATP1	16.59653067	1.111172731	14.93604927	3.900727
LINC01484	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	16.59653067	1.111172731	14.93604927	3.900727
MIR325HG	16.59653067	1.111172731	14.93604927	3.900727
ENSG000002	99.579184	6.667036389	14.93604927	3.900727
PTMA	3510.166236	235.5686191	14.90082274	3.89732
SLFN13	1256.357372	84.44912759	14.87709118	3.895021
VRK1	1153.458881	77.7820912	14.82936321	3.890385
SPC24	214.0952456	14.44524551	14.82115659	3.889586
CCNE1	443.1273688	30.00166375	14.77009317	3.884607
ENSG000002	65.55629614	4.444690926	14.74934866	3.882579

SLC6A11	44.02569665	117.8353677	2.676513416	1.420355
CYTOR	22.01284833	58.91768387	2.676513416	1.420355
DLX6	12.10706658	32.3632348	2.673086382	1.418506
ARL17A	12.10706658	32.3632348	2.673086382	1.418506
ISG15	28.61670282	76.34404107	2.667814022	1.415658
ZEB1-AS1	14.30835141	38.17202053	2.667814022	1.415658
ENSG000002	14.30835141	38.17202053	2.667814022	1.415658
ATP6V0D1	458.9678876	1223.994137	2.666840469	1.415132
SEC61B	168.3982897	448.9361546	2.66591873	1.414633
SPIRE2	61.63597531	164.3056536	2.665742738	1.414538
UQCRFS1	558.0257051	1487.049148	2.664839871	1.414049
KATNAL1	231.1349074	615.7312878	2.663947625	1.413566
CD177	16.50963624	43.98080627	2.663947625	1.413566
C10orf95-AS1	16.50963624	43.98080627	2.663947625	1.413566
HERPUD2-A	16.50963624	43.98080627	2.663947625	1.413566
DHFR	53.9314784	143.5599903	2.661896068	1.412454
CDK18	172.8008594	459.7238995	2.660426002	1.411657
RPA3	67.13918739	178.4127047	2.657355735	1.409991
TESMIN	90.25267814	239.8198681	2.657205006	1.40991
TMEM267	175.0021442	464.7028587	2.655412371	1.408936
ENSG000001	25.31477557	67.2159492	2.655206206	1.408824
COMMD8	52.83083598	140.2406841	2.654523282	1.408453
ZNF669	162.8950776	432.3396239	2.654098762	1.408222
VMA21	220.1284833	583.368053	2.650125256	1.406061
ZNF473	224.5310529	594.9856244	2.649903506	1.40594
CNPY3	278.4625313	737.7157882	2.649246147	1.405582
C16orf87	203.618847	539.3872467	2.649004523	1.40545
TSTD1	139.7815869	370.1026339	2.647720935	1.404751
CDKN2AIPN	51.73019357	136.921378	2.646836761	1.404269
MRPS28	53.9314784	142.7301637	2.646509385	1.404091
SIAH1	235.5374771	623.1997266	2.645862282	1.403738
ARL3	244.3426164	646.4348695	2.645608363	1.4036
TAF11	203.618847	538.5574202	2.644929131	1.403229
XRCC5	3370.167079	8911.507142	2.644233041	1.402849
GNAI3	402.8351244	1064.667442	2.642935975	1.402141
SSBP2	333.4946521	880.4459519	2.640060182	1.400571
PCBD1	373.1177791	985.0040951	2.639928061	1.400499
HEY1	28.61670282	75.51421454	2.638816044	1.399891
TIMM17A	235.5374771	621.5400735	2.638816044	1.399891
B3GLCT	88.0513933	232.3514293	2.638816044	1.399891
DNAH17	22.01284833	58.08785734	2.638816044	1.399891
ENSG000002	8.80513933	23.23514293	2.638816044	1.399891
DGCR11	8.80513933	23.23514293	2.638816044	1.399891
KLHL4	4.402569665	11.61757147	2.638816044	1.399891
AK1	4.402569665	11.61757147	2.638816044	1.399891
PPAN	4.402569665	11.61757147	2.638816044	1.399891
RGS20	4.402569665	11.61757147	2.638816044	1.399891
VWA5B1	4.402569665	11.61757147	2.638816044	1.399891
IGF2BP1	4.402569665	11.61757147	2.638816044	1.399891
EN1	4.402569665	11.61757147	2.638816044	1.399891
GLRX3P2	4.402569665	11.61757147	2.638816044	1.399891
ENSG000002	4.402569665	11.61757147	2.638816044	1.399891
PSMD12P1	4.402569665	11.61757147	2.638816044	1.399891
ENSG000002	4.402569665	11.61757147	2.638816044	1.399891
RNU4ATAC	4.402569665	11.61757147	2.638816044	1.399891
ENSG000002	4.402569665	11.61757147	2.638816044	1.399891
ENSG000002	4.402569665	11.61757147	2.638816044	1.399891
TFAP2B	6.603854498	17.4263572	2.638816044	1.399891
DNAJB13	6.603854498	17.4263572	2.638816044	1.399891
RWDD4P1	6.603854498	17.4263572	2.638816044	1.399891
SUGT1P4-ST	6.603854498	17.4263572	2.638816044	1.399891
ENSG000002	6.603854498	17.4263572	2.638816044	1.399891
ANTKMT	17.61027866	46.47028587	2.638816044	1.399891
GCHFR	17.61027866	46.47028587	2.638816044	1.399891
ENSG000002	17.61027866	46.47028587	2.638816044	1.399891
MADCAM1	2.201284833	5.808785734	2.638816044	1.399891
PROKR2	2.201284833	5.808785734	2.638816044	1.399891
REG1A	2.201284833	5.808785734	2.638816044	1.399891
APOA1	2.201284833	5.808785734	2.638816044	1.399891
TNNT2	2.201284833	5.808785734	2.638816044	1.399891
NR1I2	2.201284833	5.808785734	2.638816044	1.399891
SPIC	2.201284833	5.808785734	2.638816044	1.399891
C9orf131	2.201284833	5.808785734	2.638816044	1.399891
CA5A	2.201284833	5.808785734	2.638816044	1.399891
ZNF285BP	2.201284833	5.808785734	2.638816044	1.399891
F2	2.201284833	5.808785734	2.638816044	1.399891
GJB4	2.201284833	5.808785734	2.638816044	1.399891
HCG27	2.201284833	5.808785734	2.638816044	1.399891
RNU6-1062P	2.201284833	5.808785734	2.638816044	1.399891
SNORA20	2.201284833	5.808785734	2.638816044	1.399891
RPL17P9	2.201284833	5.808785734	2.638816044	1.399891
NUP35P1	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
PSME2P2	2.201284833	5.808785734	2.638816044	1.399891
UQCRFS1P1	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
VDAC1P8	2.201284833	5.808785734	2.638816044	1.399891
ZFAND2A-D	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
DFFBP1	2.201284833	5.808785734	2.638816044	1.399891
HSPA8P3	2.201284833	5.808785734	2.638816044	1.399891
RBBP4P2	2.201284833	5.808785734	2.638816044	1.399891
ASAH1-AS1	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
HADHAP1	2.201284833	5.808785734	2.638816044	1.399891
RNU6-759P	2.201284833	5.808785734	2.638816044	1.399891
SLC39A13-A	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
MTND4P34	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891

ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
FRG1HP	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
ENSG000002	3.301927249	4.444690926	1.346089902	0.428775
EML6	102.3597447	137.7854187	1.346089902	0.428775
F12	26.41541799	35.55752741	1.346089902	0.428775
ADAMTSL5	26.41541799	35.55752741	1.346089902	0.428775
ZBED10P	26.41541799	35.55752741	1.346089902	0.428775
LRRC73	26.41541799	35.55752741	1.346089902	0.428775
LTK	13.207709	17.7787637	1.346089902	0.428775
IGF2BP3	13.207709	17.7787637	1.346089902	0.428775
DPYSL4	13.207709	17.7787637	1.346089902	0.428775
L1TD1	13.207709	17.7787637	1.346089902	0.428775
TTC39A-AS1	13.207709	17.7787637	1.346089902	0.428775
N4BP2	932.2441266	1254.514014	1.345692591	0.428349
ATP9A	2082.415452	2801.266456	1.345200572	0.427821
DNAJC11	537.1134992	722.2622754	1.344710711	0.427296
MRPS15	261.9528951	352.2417559	1.344675942	0.427259
AKIRIN1	248.7451861	334.4629922	1.344600864	0.427178
ZDHHC20	368.7152095	495.5830382	1.344080812	0.42662
POLM	176.1027866	236.6797918	1.343986636	0.426519
EIF3G	674.6938012	906.7169489	1.343893996	0.426419
GXYLT2	159.5931504	214.4563372	1.343769057	0.426285
TTPAL	156.2912231	210.0116462	1.343720025	0.426233
KCNC2	253.1477557	340.0188558	1.343163619	0.425635
KAZN	253.1477557	340.0188558	1.343163619	0.425635
LSM6	126.5738779	170.0094279	1.343163619	0.425635
ADCY7	226.7323378	304.4613284	1.342822693	0.425269
FAT3	367.614567	493.3606928	1.342059692	0.424449
XPR1	773.7516187	1037.835331	1.341302953	0.423635
RPL18	1072.025713	1437.857514	1.341252823	0.423581
SCARB2	3667.340531	4916.939337	1.340737053	0.423026
RHBDF1	479.8800935	643.3690115	1.340687018	0.422972
GARRE1	523.9057902	702.2611663	1.340434062	0.4227
BRF2	188.2098532	252.23621	1.340185999	0.422433
HDGFL2	366.5139246	491.1383473	1.340026434	0.422261
CLTC	9653.734633	12934.05059	1.33979761	0.422015
CMC1	104.5610295	140.0077642	1.339005218	0.421162
FZD6	911.3319207	1220.067659	1.338774196	0.420913
EIF3I	992.7794595	1328.962587	1.338628206	0.420755
SREBF1	1358.192742	1817.878589	1.338454059	0.420568
TRIP6	141.9828717	190.0105371	1.338263798	0.420363
ATP8A2	47.3276239	63.33684569	1.338263798	0.420363
ENSG000002	132.07709	176.6764643	1.33767684	0.41973
SMCO4	44.02569665	58.89215477	1.33767684	0.41973
PROB1	44.02569665	58.89215477	1.33767684	0.41973
DHRS3	1314.167045	1757.875261	1.337634563	0.419684
KLHL35	40.7237694	54.44746384	1.3369947	0.418994
PSMD1	1779.738787	2379.020818	1.336724712	0.418702
OSCP1	275.1606041	367.7981741	1.336667272	0.41864
PBX4	37.42184215	50.00277291	1.336192182	0.418128
MYL12B	1182.089955	1578.976451	1.335749826	0.41765
WIPI1	385.2248457	514.4729747	1.335513481	0.417395
PRSS23	992.7794595	1325.629069	1.335270443	0.417132
JOSD1	136.4796596	182.232328	1.335234338	0.417093
CPT1C	34.11991491	45.55808199	1.335234338	0.417093
ITGB4	1397.815869	1865.659016	1.334695834	0.416511
SNRNP200	6564.231371	8760.485815	1.334579073	0.416385
KLF9	698.9079343	932.2739217	1.333900899	0.415651
ZNF414	212.4239863	283.3490465	1.333884423	0.415634
ZSWIM5	504.0942267	672.2595025	1.333598893	0.415325
MAP3K6	411.6402637	548.9193293	1.333492804	0.41521
NUP43	408.3383364	544.4746384	1.33339094	0.4151
TAF10	58.33404806	77.7820912	1.33339094	0.4151
TEX30	27.51606041	36.66870014	1.332629003	0.414275
PRAG1	27.51606041	36.66870014	1.332629003	0.414275
IMMT	1197.498949	1595.644042	1.332480537	0.414114
PREPL	2391.695971	3186.843394	1.332461748	0.414094
DBR1	216.826556	288.9049102	1.332424014	0.414053
PSMA6	79.24625397	105.5614095	1.332068132	0.413668
MBTPS2	358.8094277	477.8042745	1.331638016	0.413202
ACTN2	24.21413316	32.22400921	1.330793426	0.412287
ENSG000002	24.21413316	32.22400921	1.330793426	0.412287
ENSG000002	24.21413316	32.22400921	1.330793426	0.412287
OLFML2B	259.7516102	345.5747195	1.330404532	0.411865
SNAPC2	69.34047223	92.22733671	1.330065022	0.411497
PDCD2	346.7023611	461.1366835	1.330065022	0.411497
BMAL1	249.8458285	332.2406467	1.329782645	0.41119
ITGAE	135.3790172	180.0099825	1.329674171	0.411073
EDC4	361.0107125	480.02662	1.329674171	0.411073
LRRC58	427.0492575	567.8092658	1.329610708	0.411004
ARSA	309.280519	411.1339106	1.329323657	0.410692
LIG3	1357.092099	1803.433343	1.328895323	0.410227
PNPLA4	128.7751627	171.1206006	1.328832339	0.410159
ENO4	41.82441182	55.55863657	1.328378192	0.409666
IL1B	20.91220591	27.77931829	1.328378192	0.409666
ADGRE1	20.91220591	27.77931829	1.328378192	0.409666
ECT2L	20.91220591	27.77931829	1.328378192	0.409666
PTOV1-AS1	20.91220591	27.77931829	1.328378192	0.409666
LDAH	104.5610295	138.8965914	1.328378192	0.409666
CITED2	578.937911	768.9315302	1.328176158	0.409447
ATP6V1C1	614.1584683	815.6007849	1.327997295	0.409252
BCL7A	101.2591023	134.4519005	1.327800637	0.409039
DHX8	964.1627567	1280.070987	1.327650314	0.408875
ZFAT	500.7922994	664.4812934	1.326860046	0.408016
ENSG000002	38.52248457	51.11394565	1.326860046	0.408016
ZMAT3	154.0899383	204.4557826	1.326860046	0.408016
CIAPIN1	94.6552478	125.5625187	1.326524641	0.407651
ZNF486	326.9516541	22.22345463	14.71200853	3.878922
MAST1	310.3551235	21.1122819	14.70021692	3.877766
PLK1	1322.743494	90.00499125	14.6963349	3.877385
TMEM169	81.32300027	5.555863657	14.63732829	3.87158
PCNA	5918.322836	405.578047	14.59231554	3.867137
HSBP1	64.7264696	4.444690926	14.56264804	3.864201
ANKRD44-I	32.3632348	2.222345463	14.56264804	3.864201
ENSG000002	32.3632348	2.222345463	14.56264804	3.864201
UBE2T	887.0845642	61.11450023	14.51512425	3.859485
GPRIN1	2041.373272	141.1189369	14.46562252	3.854557
BDKRB1	48.12993894	3.333518194	14.43818096	3.851817
ENSG000002	48.12993894	3.333518194	14.43818096	3.851817
KLK12	528.5995018	36.66870014	14.41555059	3.849554
MARCHF11	223.2233375	15.55641824	14.34927591	3.842906
ALAS2	79.6633472	5.555863657	14.3386073	3.841833
MYBL1	856.3809824	60.0033275	14.27222486	3.835138
CACNA2D1	4962.36267	347.7970649	14.26798317	3.83471
H2AC18	63.06681654	4.444690926	14.18924681	3.826726
SPEN-AS1	31.53340827	2.222345463	14.18924681	3.826726
ITGB3	31.53340827	2.222345463	14.18924681	3.826726
COPG2IT1	31.53340827	2.222345463	14.18924681	3.826726
PELATON	15.76670413	1.111172731	14.18924681	3.826726
UBE2V1P1	15.76670413	1.111172731	14.18924681	3.826726
BACH1-IT2	15.76670413	1.111172731	14.18924681	3.826726
TMEM139-A	15.76670413	1.111172731	14.18924681	3.826726
PCDHA10	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
SLC38A4-AS	15.76670413	1.111172731	14.18924681	3.826726
TRMT61A-D	15.76670413	1.111172731	14.18924681	3.826726
TBC1D22A-I	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
CASC15	15.76670413	1.111172731	14.18924681	3.826726
MAGI1-IT1	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	15.76670413	1.111172731	14.18924681	3.826726
ENSG000002	47.3001124	3.333518194	14.18924681	3.826726
ENSG000002	47.3001124	3.333518194	14.18924681	3.826726
ENSG000002	110.3669289	7.77820912	14.18924681	3.826726
FSTL5	1509.454464	106.6725822	14.15035085	3.822766
FSTL4	487.1081751	34.44635467	14.14106601	3.821819
KIF18B	690.4156758	48.89160018	14.12135568	3.819807
NUTM2A-A	109.5371024	7.77820912	14.08256074	3.815838
CENPK	249.7777865	17.7787637	14.04922135	3.812418
H4C1	919.447799	65.55919115	14.02469711	3.809898
CHAF1B	1261.336331	90.00499125	14.01407092	3.808804
FBXO5	1750.933985	125.5625187	13.94471857	3.801647
RAB39A	308.6954704	22.22345463	13.89052582	3.796029
CRB2	323.632348	23.33462736	13.86918861	3.793811
MYCL	739.3754412	53.33629111	13.86252073	3.793118
HMGN1	1000.770799	72.22622754	13.85605802	3.792445
TUG1	507.8538384	36.66870014	13.84979114	3.791792
CARMN	61.40716347	4.444690926	13.81584558	3.788252
GRAP2	30.70358173	2.222345463	13.81584558	3.788252
ENSG000002	30.70358173	2.222345463	13.81584558	3.788252
DRAXIN	92.1107452	6.667036389	13.81584558	3.788252
SSC4D	107.0476228	7.77820912	13.76250254	3.782671
NEAT1	10311.4245	750.0415937	13.74780358	3.781129
ANO9	152.6880821	11.11172731	13.74116533	3.780432
ADGRB3	991.6427074	72.22622754	13.72967606	3.779226
CDCA4	426.5308382	31.11283648	13.70915951	3.777068
ENSG000002	45.64045934	3.333518194	13.6913785	3.775196
BMAL2	835.6353191	61.11450023	13.6732742	3.773287
GINS4	258.0760519	18.88993643	13.66209213	3.772107
H2BC15	1408.215627	103.339064	13.62713743	3.768411
SYP	272.1831029	20.00110917	13.60840045	3.766426
DCAF12L1	165.9653067	12.22290005	13.57822661	3.763223
TRIP13	209.9461129	15.55641824	13.49578738	3.754437
SYTL3	2007.350384	148.897146	13.48145641	3.752904
CHORDC1	29.8737552	2.222345463	13.44244435	3.748724
PRR18	29.8737552	2.222345463	13.44244435	3.748724
ENSG000002	29.8737552	2.222345463	13.44244435	3.748724
ADAP1	14.9368776	1.111172731	13.44244435	3.748724
FAM88B	14.9368776	1.111172731	13.44244435	3.748724
LINC02649	14.9368776	1.111172731	13.44244435	3.748724
CKLF	14.9368776	1.111172731	13.44244435	3.748724
PDC-AS1	14.9368776	1.111172731	13.44244435	3.748724
EFCAB15P	14.9368776	1.111172731	13.44244435	3.748724
ENSG000002	14.9368776	1.111172731	13.44244435	3.748724
ENSG000002	14.9368776	1.111172731	13.44244435	3.748724
ENSG000002	14.9368776	1.111172731	13.44244435	3.748724
ENSG000002	14.9368776	1.111172731	13.44244435	3.748724
ENSG000002	14.9368776	1.111172731	13.44244435	3.748724
KNTC1	5400.511079	402.2445288	13.42594042	3.746951
KIF5A	162.6460005	12.22290005	13.30666208	3.734077
CCNF	767.5895434	57.78098203	13.2844669	3.731668
RUNX1T1	2199.040313	165.564737	13.28205724	3.731407
NORAD	1696.165434	127.7848641	13.27360205	3.730488
HMGB3	1484.559668	112.2284459	13.22801592	3.725525
PABPC5	440.6378892	33.33518194	13.21840361	3.724476
VCAN	6725.744053	508.917111	13.21579469	3.724191
SPDL1	660.5419206	50.00277291	13.2101058	3.72357
ENSG000002	43.98080627	3.333518194	13.19351019	3.721757
PABPN1	73.02473494	5.555863657	13.14372336	3.716302
CNKSR3	784.186074	60.0033275	13.06904311	3.708082
ILRUN-AS1	2.201284833	5.808785734	2.638816044	1.399891
LINC01023	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
OR51B2	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
UCKL1-AS1	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
WASH5P	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
CDR1	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	2.201284833	5.808785734	2.638816044	1.399891
ZNF286B	2.201284833	5.808785734	2.638816044	1.399891
ENSG000002	26.41541799	69.7054288	2.638816044	1.399891
TPBGL	13.207709	34.8527144	2.638816044	1.399891
FGD1	166.1970049	438.1484096	2.636319529	1.398525
BOP1	157.3918655	414.9132667	2.636179864	1.398449
RHOBTB3	654.8822377	1725.209363	2.634381059	1.397464
TMEM178B	114.4668113	301.2270316	2.631566549	1.395922
TUBA1B	4252.882297	11191.04063	2.631401447	1.395831
ZNF101	152.9892959	402.4658687	2.63067992	1.395436
SNRPE	85.85010847	225.7128171	2.629150051	1.394596
ADGRV1	1812.75806	4763.204302	2.627600675	1.393746
MYL6B	70.44111464	185.0513169	2.627035615	1.393436
NTPCR	230.034265	604.1137163	2.62619013	1.392971
SRSF1	95.75589022	251.4374396	2.62581695	1.392766
ALS2CL	63.83726015	167.6249597	2.62581695	1.392766
RGL3	173.9015018	456.4045934	2.624500586	1.392043
KLHL32	86.95075089	228.2022967	2.624500586	1.392043
PPP1R26	358.8094277	941.0232888	2.622626988	1.391013
RPS15A	124.372593	326.1218276	2.622135791	1.390742
COPS3	785.8586852	2058.799629	2.619808966	1.389462
PIGA	102.3597447	268.0339703	2.61854864	1.388767
PLEKHA1	626.2655349	1638.907403	2.616952893	1.387888
CALM2	862.9036544	2257.957997	2.616697688	1.387747
MAGOHB	128.7751627	336.9095725	2.616262061	1.387507
ACOT2	107.8629568	282.1410213	2.61573602	1.387217
SANBR	107.8629568	282.1410213	2.61573602	1.387217
AZIN1	1803.95292	4717.563842	2.61512581	1.38688
PIR	86.95075089	227.3724701	2.614956948	1.386787
FAM210A	84.74946605	221.5636844	2.614337231	1.386445
ATPSCKMT	181.6059987	474.6607771	2.613684463	1.386085
MAPK8IP2	66.03854498	172.6039189	2.613684463	1.386085
CENPBD2P	16.50963624	43.15097974	2.613684463	1.386085
TMEM199	16.50963624	43.15097974	2.613684463	1.386085
HSPBP1	75.94432672	198.3285415	2.611499108	1.384878
FAM174A	121.0706658	316.1639092	2.611399773	1.384823
MED25	422.6466879	1103.669289	2.611328377	1.384784
UBE2E3	464.4710997	1212.376565	2.610230359	1.384177
PCSK4	28.61670282	74.684388	2.609818065	1.383949
KLHL15	408.3383364	1065.497269	2.609349095	1.38369
NCALD	93.55460539	243.9690008	2.607771149	1.382817
EXOC5	1000.483956	2608.974621	2.607712602	1.382785
NAP1L4	24.21413316	63.06681654	2.604545706	1.381032
ENSG000002	12.10706658	31.53340827	2.604545706	1.381032
GSTA4	375.319064	977.5356563	2.604545706	1.381032
TIPRL	635.0706742	1653.844281	2.604189342	1.380834
SNRNP40	316.9850159	824.8475742	2.602165821	1.379713
MACROH2A	392.9293426	1022.346289	2.601857836	1.379542
LHFPL2	66.03854498	171.7740924	2.601118672	1.379132
DMKN	171.7002169	446.446675	2.600152073	1.378596
ANKRD46	117.7687385	306.2059908	2.600061736	1.378546
ZNF681	117.7687385	306.2059908	2.600061736	1.378546
PRDX4	534.9122143	1390.78927	2.600032739	1.37853
DPY19L4	898.1242117	2335.131865	2.600009926	1.378517
UBA6	1504.578183	3911.802278	2.599932873	1.378474
CBX1	725.3233523	1885.365884	2.599345351	1.378148
NTRK1	19.81156349	51.44924507	2.596930075	1.376807
IFI27L1	9.905781747	25.72462253	2.596930075	1.376807
MAP3K15	9.905781747	25.72462253	2.596930075	1.376807
ACAD9-DT	9.905781747	25.72462253	2.596930075	1.376807
RNASE1	337.8972218	877.1266458	2.595838584	1.376201
CHRNA5	241.0406892	625.6892062	2.595782514	1.37617
MAPK13	315.8843735	819.868615	2.595470634	1.375996
SMPD3	94.6552478	245.6286539	2.59498189	1.375724
ST8SIA5	27.51606041	71.36508187	2.593579197	1.374944
NDUFB3	305.9785917	793.3141659	2.592711344	1.374462
MRPL51	418.2441182	1083.753453	2.591198311	1.373619
NFATC2IP	214.6252712	555.9837774	2.59048608	1.373223
DPM2	68.23982981	176.7530516	2.590174274	1.373049
SUPT16HP1	33.01927249	85.47213294	2.588552881	1.372146
COLGALT1	594.3469048	1537.668566	2.587156682	1.371367
PLEKHG4B	269.657392	697.054288	2.584962655	1.370143
GPX2	15.40899383	39.8316736	2.584962655	1.370143
GNAQP1	7.704496914	19.9158368	2.584962655	1.370143
ENSG000002	7.704496914	19.9158368	2.584962655	1.370143
ENSG000002	7.704496914	19.9158368	2.584962655	1.370143
MFSD14CP	107.8629568	278.8217152	2.584962655	1.370143
BSG	1197.498949	3091.933663	2.581992799	1.368485
PTENP1	36.32119974	93.77039827	2.581698814	1.368321
GLS	665.8886619	1718.570751	2.580868017	1.367856
ADGRL3	85.85010847	221.5636844	2.580820087	1.36783
NARF	249.8458285	644.7752164	2.580692343	1.367758
SMYD3	417.1434758	1075.455187	2.578142173	1.366332
EMD	464.4710997	1197.439688	2.578071463	1.366292

JUN	1731.310521	2295.682863	1.325979849	0.407059
ZNF182	341.1991491	452.2473017	1.325464331	0.406498
IGF1R	1253.631712	1661.203234	1.325112645	0.406115
RAB28	176.1027866	233.3462736	1.325057247	0.406055
CFAP58	176.1027866	23.33462736	1.325057247	0.406055
CCDC89	176.1027866	23.33462736	1.325057247	0.406055
AHNAK	82121.13196	108812.7009	1.325026802	0.406022
TFB2M	190.411138	252.23621	1.324692519	0.405658
TMEM185B	286.1670282	378.9099014	1.324086509	0.404997
MAPKAPK5	689.0021526	912.2728125	1.324049292	0.404957
RHOBTB1	484.2826632	641.146666	1.323910011	0.404805
INCENP	276.2612465	365.5758286	1.323297543	0.404137
ZNF7	386.3254881	511.1394565	1.323079818	0.4039
STARD10	620.7623228	821.1566485	1.32281973	0.403616
ELOVL1	298.2740948	394.4663197	1.322496075	0.403263
CNPPD1	436.9550393	577.8098203	1.322355319	0.40311
PTBP3	1737.914375	2297.905209	1.322220036	0.402962
ZBTB2	341.1991491	451.136129	1.322207661	0.402949
DFFA	352.2055732	465.5813745	1.321902349	0.402616
PPP2R5A	423.7473303	560.0310566	1.32161554	0.402303
INTS8	1532.094243	2024.556717	1.321430927	0.402101
IGBP1	313.6830886	414.4674288	1.321293509	0.401951
NBDY	178.3040714	235.5686191	1.321162311	0.401808
GNA14	89.15203572	117.7843095	1.321162311	0.401808
MYO1D	2361.978625	3120.17303	1.320999689	0.40163
KLHL22	364.3126398	481.1377927	1.320672796	0.401273
TSR3	275.1606041	363.3534832	1.320514194	0.4011
ZDHHC5	1083.032138	1430.079305	1.320440323	0.401019
NDUFAF4	28.61670282	37.77987287	1.320203557	0.40076
RNF212	14.30835141	18.88993643	1.320203557	0.40076
ANP32C	14.30835141	18.88993643	1.320203557	0.40076
MIR4639	14.30835141	18.88993643	1.320203557	0.40076
TMEM223	143.0835141	188.8993643	1.320203557	0.40076
VPS9D1-AS1	42.92505424	56.6698093	1.320203557	0.40076
VAMP8	197.0149925	260.0144192	1.319769708	0.400286
XPO5	878.3126482	1158.953159	1.319522338	0.400016
LAMTOR2	208.0214167	274.4596647	1.319381769	0.399862
NBPF3	204.7194894	270.0149737	1.318950992	0.399391
CREBZF	872.8094361	1151.17495	1.318930458	0.399368
MRPS2	190.411138	251.1250373	1.318856869	0.399288
RGS11	269.657392	355.5752741	1.318618679	0.399027
AP4B1	280.6638162	370.0205196	1.318376286	0.398762
FAM199X	453.4646755	597.8109295	1.318318629	0.398699
CCDC106	79.24625397	104.4502368	1.318046362	0.398401
ZNF627	248.7451861	327.7959558	1.317798189	0.398129
NRBP1	941.0492659	1240.068768	1.317751167	0.398078
LMLN	209.1220591	275.5708374	1.317751167	0.398078
CELSR2	742.933631	978.9431764	1.317672448	0.397992
CXorf38	64.93790256	85.56030032	1.317571048	0.397881
COMT	527.2077174	694.4829571	1.317285264	0.397568
USP28	473.276239	623.3679023	1.317133317	0.397401
MAP9	357.7087853	471.1372381	1.317097196	0.397362
RPL10A	1832.569623	2413.467173	1.316985255	0.397239
ORMDL3	556.9250626	733.3740027	1.316827078	0.397066
FGD2	126.5738779	166.6759097	1.316827078	0.397066
DTNB	774.8522611	1020.056567	1.316452979	0.396656
TOR1B	286.1670282	376.687556	1.316320606	0.396511
ENSG000002	36.32119974	47.78042745	1.315496949	0.395608
CD93	189.3104956	248.9026918	1.314785485	0.394827
UNG	163.99572	215.5675099	1.31447034	0.394482
PRKDC	9835.340632	12927.38356	1.314380868	0.394383
YWHAZ	1757.725939	2310.128109	1.314270932	0.394263
TMEM127	299.3747372	393.3551469	1.313922312	0.39388
SEMA4F	91.35332055	120.006655	1.313654	0.393585
C5orf15	522.8051477	686.704748	1.313500357	0.393417
ERH	395.1306275	518.9176656	1.313281304	0.393176
MYRIP	146.3854414	192.2328825	1.313196727	0.393083
KYAT3	347.8030036	456.6919926	1.313076621	0.392951
TNFSF12	44.02569665	57.78098203	1.312437654	0.392249
NUDT15	33.01927249	43.33573653	1.312437654	0.392249
RHOXF1	11.00642416	14.44524551	1.312437654	0.392249
BMP2	11.00642416	14.44524551	1.312437654	0.392249
EME1	11.00642416	14.44524551	1.312437654	0.392249
TAL1	11.00642416	14.44524551	1.312437654	0.392249
GPT	11.00642416	14.44524551	1.312437654	0.392249
ACTN3	11.00642416	14.44524551	1.312437654	0.392249
MMP12	11.00642416	14.44524551	1.312437654	0.392249
MTMR3	1200.800876	1575.642933	1.312160046	0.391944
EVPL	609.7558986	800.0443666	1.312073189	0.391848
TBRG4	227.8329802	298.9054648	1.31194994	0.391713
PRKCI	1019.194877	1336.740796	1.311565458	0.39129
ZNF749	235.5374771	308.9060193	1.311494133	0.391211
DUSP6	283.9657434	372.242865	1.310872433	0.390527
DEDD	346.7023611	454.4696472	1.310835166	0.390486
ABI3	51.73019357	67.78153662	1.310289638	0.389886
TOR1A	484.2826632	634.4796297	1.310143183	0.389724
SNTA1	184.9079259	242.2356555	1.310033922	0.389604
NCK2	255.3490406	334.4629922	1.309826704	0.389376
TMX1	292.7708827	383.3545923	1.309401361	0.388907
CRBN	627.3661773	821.1566485	1.308895312	0.38835
RAMP3	29.71734524	38.8910456	1.308698516	0.388133
C7	1620.145637	2120.117572	1.308596908	0.388021
TTC12	323.5888704	423.3568107	1.308316971	0.387712
SLC35C2	479.8800935	627.8125933	1.308269715	0.38766
ZNF264	536.0128567	701.1499935	1.308084283	0.387456
RNF213	8877.78173	11611.75504	1.307956807	0.387315
RAD23A	987.2762474	1291.182714	1.307823132	0.387167
RPL36	1096.239847	1433.412824	1.307572269	0.386891
APAF1	507.3961539	663.3701207	1.307400767	0.386701
OSTM1	209.1220591	273.3484919	1.307124141	0.386396
SMARCA4	2949.721676	3854.658205	1.30678709	0.386024
FOXI1	58.08785734	4.444690926	13.06904311	3.708082
ZNNT1	29.04392867	2.222345463	13.06904311	3.708082
TDGP1	231.5216028	17.7787637	13.02236796	3.70292
CNKSR2	201.6478476	15.55641824	12.96235705	3.696256
MZT1	129.4529392	10.00055458	12.94457604	3.694276
DHFR	143.5599903	11.11172731	12.91968262	3.691499
ENSG000002	57.2580308	4.444690926	12.8823425	3.687323
TK1	243.1391743	18.88993643	12.87136011	3.686093
POSTN	872.1476866	67.78153662	12.86703917	3.685608
CA1	71.36508187	5.555863657	12.84500237	3.683135
NME1	156.8372148	12.22290005	12.83142415	3.681609
MCM6	2790.706632	217.7898554	12.8137586	3.679622
ZNF519	239.8198681	18.88993643	12.69564188	3.666261
CA9	56.42820427	4.444690926	12.69564188	3.666261
SDHAP4	42.3211532	3.333518194	12.69564188	3.666261
MINCR	28.21410213	2.222345463	12.69564188	3.666261
ENSG000002	28.21410213	2.222345463	12.69564188	3.666261
N4BP2L2-IT2	28.21410213	2.222345463	12.69564188	3.666261
TPRXL	14.10705107	1.111172731	12.69564188	3.666261
SMN2	14.10705107	1.111172731	12.69564188	3.666261
NKAPP1	14.10705107	1.111172731	12.69564188	3.666261
CCDC188	14.10705107	1.111172731	12.69564188	3.666261
DAPK1-IT1	14.10705107	1.111172731	12.69564188	3.666261
SCARNA9	14.10705107	1.111172731	12.69564188	3.666261
TMEM167B-	14.10705107	1.111172731	12.69564188	3.666261
ENSG000002	14.10705107	1.111172731	12.69564188	3.666261
ENSG000002	14.10705107	1.111172731	12.69564188	3.666261
ENSG000002	14.10705107	1.111172731	12.69564188	3.666261
GPC3	3458.716991	273.3484919	12.65314093	3.661424
RFC4	1981.625762	156.6753551	12.64797364	3.660834
IL17RB	987.4935747	78.89326393	12.51683002	3.645797
LDB3	97.0897044	7.77820912	12.48226975	3.641808
CDCA5	263.0550111	21.1122819	12.45980952	3.63921
CIT	1993.243333	160.0088733	12.45707998	3.638894
WDR62	760.9509311	61.11450023	12.4512338	3.638217
DBF4	497.89592	40.00221833	12.44670773	3.637692
ASGR2	82.98265334	6.667036389	12.44670773	3.637692
FAM89A	41.49132667	3.333518194	12.44670773	3.637692
CDC42	248.1181335	20.00110917	12.4052187	3.632875
SGO2	1031.474381	83.33795486	12.37700616	3.62959
TCERG1L	96.25987787	7.77820912	12.37558368	3.629425
GLIPR2	123.6441535	10.00055458	12.36372968	3.628042
GPR173	109.5371024	8.889381852	12.32224065	3.623193
LINC00339	27.3842756	2.222345463	12.32224065	3.623193
ENSG000002	27.3842756	2.222345463	12.32224065	3.623193
DPY19L2P2	27.3842756	2.222345463	12.32224065	3.623193
SCNN1A	4433.763168	360.019965	12.31532581	3.622383
STARD4	258.9058784	21.1122819	12.26328256	3.616273
FOLR1	68.04577574	5.555863657	12.2475604	3.614423
ENSG000002	121.9845004	10.00055458	12.19777357	3.608546
TEKT2	40.66150013	3.333518194	12.19777357	3.608546
ENSG000001	40.66150013	3.333518194	12.19777357	3.608546
TRIM55	40.66150013	3.333518194	12.19777357	3.608546
THAP2	40.66150013	3.333518194	12.19777357	3.608546
RAD54B	351.0166236	28.89049102	12.14990162	3.602873
TIPIN	321.9726949	26.66814555	12.0733065	3.593749
DLX3	80.49317374	6.667036389	12.0733065	3.593749
MOB4	80.49317374	6.667036389	12.0733065	3.593749
C9orf40	187.5407965	15.55641824	12.05552548	3.591623
MUC1	2015.64865	167.7870824	12.01313367	3.586541
MT1X	253.0970927	21.1122819	11.98814481	3.583537
CACNA1E	1570.031801	131.1183823	11.97415476	3.581852
RPSAP47	66.38612267	5.555863657	11.94883942	3.578799
IL10RB	39.8316736	3.333518194	11.94883942	3.578799
TNFRSF10C	26.55444907	2.222345463	11.94883942	3.578799
RNU1-4	13.27722453	1.111172731	11.94883942	3.578799
E2F3-IT1	13.27722453	1.111172731	11.94883942	3.578799
DHDDS-AS1	13.27722453	1.111172731	11.94883942	3.578799
ERICH2-DT	13.27722453	1.111172731	11.94883942	3.578799
SMAD9-IT1	13.27722453	1.111172731	11.94883942	3.578799
LINC00299	13.27722453	1.111172731	11.94883942	3.578799
DRG1P2	13.27722453	1.111172731	11.94883942	3.578799
AMACR	13.27722453	1.111172731	11.94883942	3.578799
DUBR	13.27722453	1.111172731	11.94883942	3.578799
ARHGAP5-A	13.27722453	1.111172731	11.94883942	3.578799
DUX4L27	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
PAXIP1-DT	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
SAMD12-AS	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
ENSG000002	13.27722453	1.111172731	11.94883942	3.578799
UNC5A	118.6651943	10.00055458	11.86586137	3.568745
ENSG000002	78.83352067	6.667036389	11.82437234	3.563692
LINC01128	65.55629614	5.555863657	11.79947893	3.560651
GRIN3A	3128.446031	265.5702828	11.78010581	3.558281
ZNF804B	431.5097974	36.66870014	11.7677964	3.556772
NEB	11215.1056	955.608549	11.73608755	3.55288
THAP9-AS1	39.00184707	3.333518194	11.69990526	3.548425
SYNCRIP	363.4640216	31.11283648	11.68212425	3.546231
PSMC3IP	207.4566333	17.7787637	11.66878849	3.544583
ERO1A	1931.006343	165.564737	11.66314989	3.543886
RNU5B-1	51.44924507	4.444690926	11.57543819	3.532995
ENSG000002	51.44924507	4.444690926	11.57543819	3.532995
ENSG000002	25.72462253	2.222345463	11.57543819	3.532995
LINC01535	25.72462253	2.222345463	11.57543819	3.532995
MIR34AHG	25.72462253	2.222345463	11.57543819	3.532995
CAMSAP1-I	25.72462253	2.222345463	11.57543819	3.532995
RRAGD	847.2528906	73.33740027	11.55280781	3.530172
MRPS23	183.8072835	473.8309506	2.577868197	1.366179
H3P6	210.2227015	541.8767263	2.577631828	1.366046
DBF4B	126.5738779	326.1218276	2.576533429	1.365431
HSPH1	1266.839421	3262.877929	2.575604986	1.364911
DHX40	576.7366261	1484.559668	2.574068649	1.364051
ABHD10	204.7194894	526.9398487	2.57396035	1.36399
GNAQ	1004.886526	2584.909651	2.572339846	1.363081
METTL4	173.9015018	447.2765015	2.572010574	1.362897
CEP19	29.71734524	76.34404107	2.569006096	1.36121
RNU4-2	64.93790256	166.7951332	2.568532808	1.360945
SRPK1	1005.987168	2583.249998	2.567875694	1.360575
ADISSP	46.22698148	118.6651943	2.567011526	1.36009
NRXN2	125.4732355	321.9726949	2.566066729	1.359559
MRPL35	125.4732355	321.9726949	2.566066729	1.359559
PRDX3	331.2933673	849.7423702	2.564924185	1.358916
EIF2S1	534.9122143	1371.70326	2.564352099	1.358594
AP3M2	310.3811614	795.8036455	2.563956014	1.358372
FOXN4	11.00642416	28.21410213	2.5634213	1.358071
TMCC1-DT	11.00642416	28.21410213	2.5634213	1.358071
CCDC184	5.503212081	14.10705107	2.5634213	1.358071
ENSG000002	5.503212081	14.10705107	2.5634213	1.358071
VIRMA-DT	5.503212081	14.10705107	2.5634213	1.358071
SCARNA9	5.503212081	14.10705107	2.5634213	1.358071
LARP4P	5.503212081	14.10705107	2.5634213	1.358071
GKAP1	137.580302	352.6762767	2.5634213	1.358071
FGD4	533.8115719	1367.554127	2.561866769	1.357195
MAD2L1BP	85.85010847	219.9040313	2.561488101	1.356982
SLC25A14	144.1841565	369.2728073	2.56111917	1.356774
HAUS8	86.95075089	222.3935109	2.557695117	1.354844
CD209	19.81156349	50.61941854	2.555044106	1.353348
CCDC144CP	105.661672	269.6936233	2.552426233	1.351869
SPATA5	526.107075	1342.659331	2.552064769	1.351665
APBA2	14.30835141	36.51236747	2.551822108	1.351528
ENSG000002	14.30835141	36.51236747	2.551822108	1.351528
ENSG000002	40.7237694	103.7283167	2.547119734	1.348867
HNRNPA3P5	35.22055732	89.6212656	2.544572614	1.347423
KCNE4	8.80513933	22.4053164	2.544572614	1.347423
DCST1-AS1	8.80513933	22.4053164	2.544572614	1.347423
FOXN2	198.1156349	503.7047058	2.542478315	1.346235
CHCHD1	110.0642416	279.6515417	2.540802877	1.345284
SUMO2	193.7130653	492.0871343	2.540288822	1.344993
SDHAF4	20.91220591	53.10889814	2.539612433	1.344608
DUSP10	179.4047139	455.5747668	2.539368989	1.34447
SET	1637.755915	4154.941453	2.536972337	1.343108
ENSG000002	12.10706658	30.70358173	2.536005029	1.342558
B4GALNT4	72.64239948	184.2214904	2.536005029	1.342558
ZNF667-AS1	36.32119974	92.1107452	2.536005029	1.342558
STIP1	1175.486101	2980.736908	2.535748323	1.342412
DYNLL1	330.1927249	836.4651456	2.533263402	1.340997
TTC3P1	125.4732355	317.8235623	2.532998859	1.340846
C17orf75	171.7002169	434.8291035	2.532490123	1.340557
NUP37	144.1841565	365.1236747	2.53234255	1.340473
CCNQ	89.15203572	225.7128171	2.531774123	1.340149
SVBP	104.5610295	264.7146641	2.531676144	1.340093
AGTPBP1	1109.447556	2808.132989	2.531109267	1.33977
SLC25A24	15.40899383	39.00184707	2.531109267	1.33977
NYAP2	15.40899383	39.00184707	2.531109267	1.33977
CCT3	1799.550351	4553.258189	2.530219945	1.339263
PALS2	584.4411231	1477.091229	2.527356771	1.337629
CBFA2T2	979.5717505	2472.883069	2.52445323	1.335971
PPP1R3D	28.61670282	72.1949084	2.52282413	1.33504
POLR2D	116.6680961	293.7585928	2.517899945	1.332221
CYCS	294.9721676	742.6947474	2.517846865	1.332191
CDC5L	899.2248541	2263.766783	2.51746465	1.331972
STRBP	1447.344777	3642.108655	2.516407087	1.331365
NRG3	9.905781747	24.894796	2.513158137	1.329501
ZNF286A	9.905781747	24.894796	2.513158137	1.329501
BSG-AS1	9.905781747	24.894796	2.513158137	1.329501
ZNF892	82.54818122	207.4566333	2.513158137	1.329501
NLRP12	6.603854498	16.59653067	2.513158137	1.329501
CAGE1	6.603854498	16.59653067	2.513158137	1.329501
ZPLD1	6.603854498	16.59653067	2.513158137	1.329501
TTC41P	6.603854498	16.59653067	2.513158137	1.329501
TNNI3K	3.301927249	8.298265334	2.513158137	1.329501
TNFSF18	3.301927249	8.298265334	2.513158137	1.329501
BTG4	3.301927249	8.298265334	2.513158137	1.329501
SPATA31C2	3.301927249	8.298265334	2.513158137	1.329501
PAQR9	3.301927249	8.298265334	2.513158137	1.329501
ASTL	3.301927249	8.298265334	2.513158137	1.329501
Y_RNA.40	3.301927249	8.298265334	2.513158137	1.329501
EXOC3-AS1	3.301927249	8.298265334	2.513158137	1.329501
ADM5	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
CLCA4-AS1	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
GLIPR1-AS1	3.301927249	8.298265334	2.513158137	1.329501
PYCARD-AS	3.301927249	8.298265334	2.513158137	1.329501
CARD8-AS1	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
TTC23L-AS1	3.301927249	8.298265334	2.513158137	1.329501
MRPL20-DT	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
SNORA28	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501

ARHGAP29	2248.612456	2937.940702	1.306557159	0.38577
ZNF140	299.3747372	391.1328015	1.306499022	0.385706
KERA	18.71092108	24.44580009	1.306499022	0.385706
CD1D	18.71092108	24.44580009	1.306499022	0.385706
ENSG000002	18.71092108	24.44580009	1.306499022	0.385706
LINGO3	18.71092108	24.44580009	1.306499022	0.385706
TMEM202-A	18.71092108	24.44580009	1.306499022	0.385706
LRFN4	37.42184215	48.89160018	1.306499022	0.385706
CSMD1	37.42184215	48.89160018	1.306499022	0.385706
CRMP1	56.13276323	73.33740027	1.306499022	0.385706
STMN3	112.2655265	146.6748005	1.306499022	0.385706
MYO9B	2029.584616	2651.258137	1.306305791	0.385493
CCAR2	621.8629652	812.2672667	1.306183697	0.385358
ESRP2	517.3019357	675.5930207	1.305993607	0.385148
TTC30B	423.7473303	553.3640203	1.305882021	0.385025
AKR7A3	101.2591023	132.229555	1.305853519	0.384993
ALG10B	247.6445437	323.3512648	1.305707205	0.384831
SF1	3347.053588	4370.242353	1.305698352	0.384822
ALDH5A1	263.0535375	343.352374	1.305256631	0.384333
S100PBP	368.7152095	481.1377927	1.304903569	0.383943
GGA2	817.7773153	1066.725822	1.304420901	0.383409
NUDT3	150.788011	196.6775735	1.304331638	0.383311
ZNF419	230.034265	300.0166375	1.304225862	0.383194
EHD3	256.449683	334.4629922	1.30420513	0.383171
SYNJ1	932.2441266	1215.622968	1.303974928	0.382916
AR	3435.104981	4479.13728	1.303930245	0.382867
DLX5	86.95075089	113.3396186	1.30349212	0.382382
TBP	468.8736693	611.1450023	1.303432123	0.382315
DNAJC14	249.8458285	325.5736103	1.303098044	0.381946
HEMK1	197.0149925	256.680901	1.302849584	0.381671
GRHPR	614.1584683	800.0443666	1.302667647	0.381469
CALHM5	34.11991491	44.44690926	1.302667647	0.381469
HYAL3	34.11991491	44.44690926	1.302667647	0.381469
SH3GL1	451.2633907	587.8103749	1.302588216	0.381381
CXXC5	110.0642416	143.3412824	1.30234198	0.381108
DIP2C	1406.621008	1831.212661	1.301852205	0.380566
MVD	167.2976473	217.7898554	1.301810629	0.38052
PMF1	41.82441182	54.44746384	1.301810629	0.38052
RPL39P3	41.82441182	54.44746384	1.301810629	0.38052
SMG6	2347.670274	3055.725011	1.301598885	0.380285
BEX2	373.1177791	485.5824836	1.301418777	0.380085
RMDN1	373.1177791	485.5824836	1.301418777	0.380085
LSG1	578.937911	753.3751119	1.301305542	0.37996
CRTC1	830.9850243	1081.171068	1.301071663	0.3797
YDJC	106.7623144	138.8965914	1.300988951	0.379609
KCTD13	335.695937	436.6908835	1.300852454	0.379457
FMO4	64.93790256	84.44912759	1.300459736	0.379022
CCNB1	64.93790256	84.44912759	1.300459736	0.379022
NDUFS2	703.310504	914.495158	1.300272288	0.378814
PGAP1	565.730202	735.5963482	1.300259993	0.3788
PGD	681.2976557	885.604667	1.299879222	0.378378
NXPE3	191.5117804	248.9026918	1.299673008	0.378149
HARS2	199.2162773	258.9032464	1.299608897	0.378078
CDC37	1122.655265	1458.969796	1.299570618	0.378035
IFRD2	172.8008594	224.4568918	1.298933886	0.377328
ZNF169	195.9143501	254.4585555	1.298825509	0.377208
PRMT3	195.9143501	254.4585555	1.298825509	0.377208
ERCC3	618.561038	803.3778848	1.298785141	0.377163
UBQLN2	719.8201403	934.4962671	1.298235788	0.376552
GPR161	138.6809445	180.0099825	1.298015262	0.376307
SLC29A2	200.3169198	260.0144192	1.298015262	0.376307
SLC26A6	169.4989321	220.0122008	1.298015262	0.376307
CTSV	23.11349074	30.00166375	1.298015262	0.376307
ORC1	30.81798766	40.00221833	1.298015262	0.376307
PWP2	15.40899383	20.00110917	1.298015262	0.376307
ENSG000002	15.40899383	20.00110917	1.298015262	0.376307
STX1B	7.704496914	10.00055458	1.298015262	0.376307
UGT2B10	7.704496914	10.00055458	1.298015262	0.376307
ENSG000001	7.704496914	10.00055458	1.298015262	0.376307
PLPPR3	7.704496914	10.00055458	1.298015262	0.376307
SLC24A2	7.704496914	10.00055458	1.298015262	0.376307
ERICH6B	7.704496914	10.00055458	1.298015262	0.376307
ASPHD1	7.704496914	10.00055458	1.298015262	0.376307
CHST13	7.704496914	10.00055458	1.298015262	0.376307
NKAPL	7.704496914	10.00055458	1.298015262	0.376307
SNORA74A	7.704496914	10.00055458	1.298015262	0.376307
RPA4	7.704496914	10.00055458	1.298015262	0.376307
POLR2J2	7.704496914	10.00055458	1.298015262	0.376307
PA2G4P4	7.704496914	10.00055458	1.298015262	0.376307
CRYBB2	7.704496914	10.00055458	1.298015262	0.376307
DPP3-DT	7.704496914	10.00055458	1.298015262	0.376307
ELOCP2	7.704496914	10.00055458	1.298015262	0.376307
PPP1R21	643.8758135	835.601894	1.297768726	0.376033
ZXDC	1234.920791	1602.311079	1.297501095	0.375736
PIGR	738.5310613	957.8308945	1.296940568	0.375112
EP400	4409.17352	5718.094876	1.296863199	0.375026
ESYT1	676.895086	877.8264578	1.29684271	0.375004
OS9	1721.404739	2232.346017	1.29681647	0.374974
CCND1	4386.060029	5686.98204	1.296603786	0.374738
RUSF1	770.4496914	998.9442856	1.296573023	0.374703
GFOD2	104.5610295	135.5630732	1.296497116	0.374619
MTSS1	201.4175622	261.1255919	1.296439045	0.374554
ADIRF	96.85653263	125.5625187	1.296376354	0.374485
IPO5	1526.591031	1978.998635	1.29635154	0.374457
CTBP2	744.0342734	964.4979309	1.29630847	0.374409
CAPNS1	1655.366194	2145.674544	1.296193285	0.374281
ZNF212	124.372593	161.1200461	1.295462627	0.373467
RPS19BP1	151.8886534	196.6775735	1.29487996	0.372818
TBC1D4	1118.252695	1447.858069	1.294750351	0.372674
ZBTB7C	93.55460539	121.1178277	1.294621758	0.372531
CLPTM1	1942.633865	2514.583891	1.294419879	0.372306
RMI2	89.6212656	7.77820912	11.52209515	3.526331
EFCAB5	63.89664307	5.555863657	11.50075794	3.523657
KCTD8	63.89664307	5.555863657	11.50075794	3.523657
PIFO	216.5847252	18.88993643	11.46561429	3.519242
PAK1IP1	126.9634596	11.11172731	11.42607769	3.514258
GABBR2	455.5747668	40.00221833	11.38873757	3.509536
NGB	50.61941854	4.444690926	11.38873757	3.509536
SNAP25	341.0587052	30.00166375	11.36799306	3.506906
SLITRK6	893.7231764	78.89326393	11.32825709	3.501854
ZNF738	679.6279308	60.0033275	11.32650403	3.501631
ZNF271P	75.51421454	6.667036389	11.32650403	3.501631
NRG1	238.9900416	21.1122819	11.31995313	3.500796
TIFA	175.9232251	15.55641824	11.30872302	3.499364
LINC00205	87.96161254	7.77820912	11.30872302	3.499364
RASD1	2229.743895	197.7887462	11.27336079	3.494846
PFDN4	325.2920011	28.89049102	11.2594833	3.493069
DCAF7	399.9763891	35.55752741	11.24871211	3.491688
LINC00511	199.9881945	17.7787637	11.24871211	3.491688
RMRP	6241.955184	555.5863657	11.23489626	3.489915
PPP1R14BP3	24.894796	2.222345463	11.20203695	3.485689
SERBP1P6	24.894796	2.222345463	11.20203695	3.485689
ENSG000002	24.894796	2.222345463	11.20203695	3.485689
ENSG000002	24.894796	2.222345463	11.20203695	3.485689
GDF5	12.447398	1.111172731	11.20203695	3.485689
EFHD2-AS1	12.447398	1.111172731	11.20203695	3.485689
TMSB15B-A	12.447398	1.111172731	11.20203695	3.485689
RPL29P2	12.447398	1.111172731	11.20203695	3.485689
SRP14-DT	12.447398	1.111172731	11.20203695	3.485689
ENSG000002	12.447398	1.111172731	11.20203695	3.485689
CYP4F23P	12.447398	1.111172731	11.20203695	3.485689
TLCD4-RWI	12.447398	1.111172731	11.20203695	3.485689
ENSG000002	12.447398	1.111172731	11.20203695	3.485689
ENSG000002	12.447398	1.111172731	11.20203695	3.485689
ENSG000002	12.447398	1.111172731	11.20203695	3.485689
RGS7	224.053164	20.00110917	11.20203695	3.485689
CDCA3	273.842756	24.44580009	11.20203695	3.485689
ENSG000002	273.842756	24.44580009	11.20203695	3.485689
BMP2	161.816174	14.44524551	11.20203695	3.485689
E2F1	657.2226144	58.89215477	11.15976512	3.480235
BAALC	98.74935747	8.889381852	11.10868665	3.473616
PAX9	950.1513807	85.56030032	11.10504962	3.473144
AGRP	61.40716347	5.555863657	11.05267646	3.466324
CCDC144CP	269.6936233	24.44580009	11.03230912	3.463663
BARX1	427.3606647	38.8910456	10.98866482	3.457944
RFC3	512.0029711	46.66925472	10.97088381	3.455608
APBA2	36.51236747	3.333518194	10.9531028	3.453268
LIN28B	36.51236747	3.333518194	10.9531028	3.453268
CCDC180	36.51236747	3.333518194	10.9531028	3.453268
ENSG000002	36.51236747	3.333518194	10.9531028	3.453268
BEST3	376.7412461	34.44635467	10.93704253	3.451151
SUSD2	777.5474618	71.11505481	10.93365482	3.450704
ANGPT2	375.9114196	34.44635467	10.91295213	3.44797
MFSD14CP	278.8217152	25.55697282	10.9098099	3.447554
LRFN5	1308.636443	120.006655	10.90469894	3.446878
TICRR	435.65893	40.00221833	10.89086926	3.445047
MT-TQ	84.6423064	7.77820912	10.88197876	3.443869
BRD3OS	48.12993894	4.444690926	10.82863572	3.43678
SEPTIN7P6	24.06496947	2.222345463	10.82863572	3.43678
ENSG000002	24.06496947	2.222345463	10.82863572	3.43678
PAGR1	24.06496947	2.222345463	10.82863572	3.43678
PSIP1	6738.191451	622.2567296	10.82863572	3.43678
ENSG000002	144.3898168	13.33407278	10.82863572	3.43678
SSX2IP	3400.629134	314.461883	10.81412189	3.434845
MNS1	336.079746	31.11283648	10.80196421	3.433222
IER3IP1	59.7475104	5.555863657	10.75395548	3.426795
ZSCAN16-A	59.7475104	5.555863657	10.75395548	3.426795
SPSB4	35.68254093	3.333518194	10.70416865	3.420101
ENSG000002	35.68254093	3.333518194	10.70416865	3.420101
LINC00649	35.68254093	3.333518194	10.70416865	3.420101
ENSG000002	35.68254093	3.333518194	10.70416865	3.420101
KCNQ5	261.395358	24.44580009	10.69285346	3.418575
CIBAR1	259.7357049	24.44580009	10.62496232	3.409386
LRR1	436.4887566	41.11339106	10.61670529	3.408264
LAMA1	860.5301151	81.11560939	10.60868705	3.407174
MSANTD7	117.8353677	11.11172731	10.60459498	3.406618
KCNH6	269.6936233	25.55697282	10.55264351	3.399533
SYNJ2BP	281.3111948	26.66814555	10.5485848	3.398978
ZNF257	338.5692256	32.22400921	10.50673811	3.393243
HECW2	2600.676356	247.7915191	10.49542117	3.391688
H3C10	836.4651456	80.00443666	10.45523449	3.386154
MCPH1	58.08785734	5.555863657	10.45523449	3.386154
DCX	46.47028587	4.444690926	10.45523449	3.386154
SPDYA	23.23514293	2.222345463	10.45523449	3.386154
ENSG000001	23.23514293	2.222345463	10.45523449	3.386154
ENSG000002	23.23514293	2.222345463	10.45523449	3.386154
ENSG000002	23.23514293	2.222345463	10.45523449	3.386154
HOXC8	11.61757147	1.111172731	10.45523449	3.386154
C6orf52	11.61757147	1.111172731	10.45523449	3.386154
ACOT4	11.61757147	1.111172731	10.45523449	3.386154
H3C15	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
U3.2	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
PA2G4P2	11.61757147	1.111172731	10.45523449	3.386154
CDRT4	11.61757147	1.111172731	10.45523449	3.386154
RN7SL674P	11.61757147	1.111172731	10.45523449	3.386154
ARHGAP8	11.61757147	1.111172731	10.45523449	3.386154
FAM174A-D	11.61757147	1.111172731	10.45523449	3.386154
RNU4ATAC	11.61757147	1.111172731	10.45523449	3.386154
THOC1-DT	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
SLURP2	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
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ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
ENSG000002	3.301927249	8.298265334	2.513158137	1.329501
C2orf68	145.284799	365.1236747	2.513158137	1.329501
TMEM63C	42.92505424	107.8774493	2.513158137	1.329501
ZFAS1	26.41541799	66.38612267	2.513158137	1.329501
LRRC57	26.41541799	66.38612267	2.513158137	1.329501
TSN	289.4689555	726.9280432	2.51124699	1.328404
LRRC1	270.7580344	679.6279308	2.51009331	1.327741
EPS8	1018.094235	2554.20607	2.508811053	1.327004
MAPK8	369.8158519	927.7460643	2.508670355	1.326923
PHPT1	302.6766645	759.291278	2.508588759	1.326876
FAM171B	242.1413316	607.4330224	2.508588759	1.326876
ABAT	264.1541799	662.2015736	2.506875242	1.32589
HSP90AA1	10858.93808	27210.01203	2.505770991	1.325255
MECOM	425.9486151	1067.156922	2.505365399	1.325021
MED12L	351.1049308	879.6161254	2.505279898	1.324972
CDC42	99.05781747	248.1181335	2.504780943	1.324684
RUVBL1	475.4775238	1190.801075	2.504431894	1.324483
ACTR1A	333.4946521	834.8054926	2.503205036	1.323776
SLC11A1	27.51606041	68.87560227	2.503105505	1.323719
MSI1	100.1584599	250.6076131	2.502111288	1.323146
AFG3L1P	24.21413316	60.57733694	2.501734691	1.322929
HLTF	1679.580327	4199.752085	2.500477064	1.322203
GABPB1-AS1	59.43469048	148.5389495	2.499196147	1.321464
PRMT3	195.9143501	489.5976547	2.499039271	1.321374
ILF2	1329.576039	3322.62544	2.49901122	1.321357
TEAD1	567.9314868	1419.003372	2.498546753	1.321089
ANAPC15	147.4860838	368.4429808	2.498154208	1.320863
TCP1	2609.623169	6519.117246	2.498106747	1.320835
LSR	830.9850243	2075.39616	2.497513312	1.320492
C1QTNF3	17.61027866	43.98080627	2.497450899	1.320456
SNHG1	17.61027866	43.98080627	2.497450899	1.320456
IGSF8	467.7730269	1167.565932	2.496009529	1.319623
PTMAP2	14.30835141	35.68254093	2.493826151	1.318361
SRP9	563.5289171	1404.896321	2.493033238	1.317902
HIRIP3	147.4860838	367.6131543	2.492527734	1.31761
PKN3	39.62312699	98.74935747	2.492215153	1.317429
GRAMD1C	118.869381	296.2480724	2.492215153	1.317429
PVT1	75.94432672	189.2004496	2.491304588	1.316901
MYLK-AS1	25.31477557	63.06681654	2.491304588	1.316901
PPP2R2C	148.5867262	370.1026339	2.490818954	1.31662
CASP3	123.2719506	307.0358173	2.490719225	1.316562
TAF2	1728.008594	4298.501443	2.487546334	1.314723
PDE6D	172.8008594	429.8501443	2.487546334	1.314723
STK33	117.7687385	292.9287663	2.487321932	1.314593
CENPBD1P	40.7237694	101.2388371	2.48598886	1.31382
IQCC	59.43469048	147.7091229	2.485234158	1.313382
ATL1	280.6638162	697.054288	2.483591571	1.312428
TOX2	79.24625397	196.6688884	2.48174366	1.311354
RNASEH1	52.83083598	131.1125923	2.48174366	1.311354
CCDC15	220.1284833	546.025859	2.480487081	1.310623
RNF168	945.4518356	2343.43013	2.478635127	1.309546
CHMP1B	206.9207743	512.8327976	2.478401695	1.30941
LAMB4	46.22698148	114.5160616	2.477255878	1.308743
NIP7	53.9314784	133.6020719	2.477255878	1.308743
BORCS7	7.704496914	19.08601027	2.477255878	1.308743
RPS10P7	7.704496914	19.08601027	2.477255878	1.308743
TMSB4XP6	7.704496914	19.08601027	2.477255878	1.308743
BCDIN3D-AS	7.704496914	19.08601027	2.477255878	1.308743
LINC02977	7.704496914	19.08601027	2.477255878	1.308743
CCDC177	7.704496914	19.08601027	2.477255878	1.308743
FIGNL1	315.8843735	782.526421	2.477255878	1.308743
ARL13B	300.4753796	744.3544004	2.477255878	1.308743
NOPCHAP1	117.7687385	291.2691132	2.473229456	1.306396
DDA1	94.6552478	234.0110824	2.47224626	1.305822
DKC1	611.9571835	1511.943944	2.470669492	1.304902
ANKRD9	63.83726015	157.6670413	2.469827824	1.30441
ENSG000002	31.91863007	78.83352067	2.469827824	1.30441
IDI1	320.2869431	790.8246863	2.469113098	1.303993
NUDT5	453.4646755	1119.435994	2.468628879	1.30371
MAMSTR	24.21413316	59.7475104	2.467464353	1.303029
H1-10-AS1	12.10706658	29.8737552	2.467464353	1.303029
MTX2	521.7045053	1287.060953	2.467030551	1.302776
PIERCE1	52.83083598	130.2827657	2.466036422	1.302194
COX5A	451.2633907	1112.797381	2.465959801	1.302149
COQ3	40.7237694	100.4090105	2.465611902	1.301946
C9orf64	171.7002169	423.211532	2.464828173	1.301487
BRD7	908.0299934	2238.04216	2.464722726	1.301425
SGPL1	975.1691808	2402.347814	2.463519009	1.300721
XNDC1N	49.52890873	121.9845004	2.462894974	1.300355
MAGEF1	422.6466879	1040.602473	2.462109612	1.299895
MDC1	556.9250626	1370.873433	2.461504294	1.29954
DBR1	216.826556	533.578461	2.460853831	1.299159
PDE6B	20.91220591	51.44924507	2.460249545	1.298805
FASTKD1	326.8907976	804.1019108	2.459848722	1.29857
BCL6B	25.31477557	62.23699	2.458524265	1.297793
IER5	55.03212081	135.2617249	2.457868658	1.297408
PSMA7	758.3426248	1863.790394	2.457715461	1.297318
H3-3B	900.3254965	2212.317538	2.457241905	1.29704
HDGF	616.3597531	1514.433423	2.457060857	1.296934
WEE1	308.1798766	756.8017984	2.455714523	1.296143
ANKRD37	38.52248457	94.6002248	2.455714523	1.296143
DCAF7	162.8950776	399.9763891	2.455423423	1.295972
KCTD17	42.92505424	105.3879697	2.45516218	1.295818
OLA1	806.7708911	1979.966109	2.45418635	1.295245
MRPL1	181.6059987	445.6168484	2.453756217	1.294992
SELENOW	216.826556	531.9188079	2.453199542	1.294665
MTRFR	78.14561156	191.6899292	2.452983928	1.294538

NR4A3	42.92505424	55.55863657	1.294317213	0.372191
KIAA1671	1319.670257	1707.872488	1.294166084	0.372023
CHD3	6137.182113	7941.551512	1.294006168	0.371844
TIMELESS	234.4368347	303.3501557	1.293952617	0.371785
HYAL2	211.3233439	273.3484919	1.293508265	0.371289
IGF2R	4490.621058	5805.877522	1.292889657	0.370599
GATAD2A	871.7087937	1126.72915	1.292552235	0.370223
SLC35F2	145.284799	187.7881916	1.292552235	0.370223
SAC3D1	55.03212081	71.11505481	1.292246306	0.369881
NFKBID	27.51606041	35.55752741	1.292246306	0.369881
EBPL	122.1713082	157.7865279	1.291518689	0.369069
SHLD1	47.3276239	61.11450023	1.291307173	0.368832
PHETA1	47.3276239	61.11450023	1.291307173	0.368832
STK11	691.2034374	892.2717033	1.290895929	0.368373
PSMG2	395.1306275	510.0282837	1.29078398	0.368248
PARP14	2620.629593	3382.409794	1.290685949	0.368138
POLR1B	454.5653179	586.6992022	1.290681843	0.368133
TSSK3	19.81156349	25.55697282	1.290002822	0.367374
GSDME	79.24625397	102.2278913	1.290002822	0.367374
ATXN1	1514.483965	1953.441662	1.289839779	0.367192
BUB3	618.561038	797.8220212	1.289803224	0.367151
WDR12	460.06853	593.3662386	1.289734463	0.367074
TADA1	130.9764475	168.8982552	1.289531502	0.366847
SPIN2B	71.54175706	92.22733671	1.289139944	0.366409
OSBPL7	123.2719506	158.8977006	1.289001267	0.366254
TBXAS1	226.7323378	292.2384284	1.288913753	0.366156
LRRC8C	206.9207743	266.6814555	1.28880948	0.366039
BRD9	529.4090022	682.2600571	1.288720166	0.365939
SAT2	147.4860838	190.0105371	1.288328581	0.365501
ADAM20	191.5117804	246.6803464	1.288068785	0.36521
PRKG2	159.5931504	205.5669553	1.288068785	0.36521
ST8SIA6	31.91863007	41.11339106	1.288068785	0.36521
FBXO34	554.7237778	714.4840663	1.287999712	0.365132
NMT2	451.2633907	581.1433385	1.287814058	0.364924
CIB1	387.4261305	498.9165564	1.287772086	0.364877
HOXD3	44.02569665	56.6698093	1.287198468	0.364235
ADGRB1	44.02569665	56.6698093	1.287198468	0.364235
NOMO2	376.4197064	484.4713109	1.287050871	0.364069
HCFC1	5269.875889	6780.376007	1.286629164	0.363596
FAM117A	260.8522527	335.5741649	1.286453007	0.363399
RGCC	68.23982981	87.78264578	1.286384301	0.363322
AIF1L	148.5867262	191.1217098	1.286263684	0.363186
THAP9	228.9336226	294.4607738	1.286227731	0.363146
MSI2	1397.815869	1797.877479	1.2862048	0.36312
PTCHD1	92.45396297	118.8954823	1.285996602	0.362887
PSMD13	407.237694	523.3623565	1.285152048	0.361939
MED14	2677.862999	3441.301949	1.28509261	0.361872
TMCO6	72.64239948	93.33850944	1.284903997	0.361661
LRRC4	36.32119974	46.66925472	1.284903997	0.361661
KATNAL2	36.32119974	46.66925472	1.284903997	0.361661
POLD4	36.32119974	46.66925472	1.284903997	0.361661
VENTX	12.10706658	15.55641824	1.284903997	0.361661
OR13D1	12.10706658	15.55641824	1.284903997	0.361661
ZDBF2	12.10706658	15.55641824	1.284903997	0.361661
GSTO1	121.0706658	155.5641824	1.284903997	0.361661
VEGFC	121.0706658	155.5641824	1.284903997	0.361661
AMOT	505.1948691	648.9248752	1.284504089	0.361211
ATG2B	2316.852286	2975.720575	1.284380792	0.361073
NEPRO	497.4903722	638.9243206	1.284294845	0.360976
FBN2	206.9207743	265.5702828	1.283439441	0.360015
ZNF205	129.8758051	166.6759097	1.283348423	0.359913
DAP	1644.35977	2110.117017	1.283245343	0.359797
RAB11FIP1	970.7666112	1245.624632	1.283135017	0.359673
DDX56	341.1991491	437.8020562	1.283127632	0.359665
ZNF324B	122.1713082	156.6753551	1.282423487	0.358873
COQ3	40.7237694	52.22511838	1.282423487	0.358873
PARD3B	1034.603871	1326.740241	1.282365433	0.358807
MXI1	767.1477642	983.3878673	1.281875426	0.358256
DBF4B	126.5738779	162.2312188	1.281711689	0.358072
EXOSC9	281.7644586	361.1311377	1.281677397	0.358033
TTLL4	522.8051477	670.0371571	1.28161928	0.357968
IPPK	57.23340565	73.33740027	1.281374041	0.357692
SNX16	278.4625313	356.6864468	1.280913612	0.357173
TAB1	323.5888704	414.4674288	1.280845748	0.357097
TESMIN	90.25267814	115.5619641	1.28042698	0.356625
MBTD1	496.3897298	635.5908024	1.28042698	0.356625
H2AC13	61.63597531	78.89326393	1.279987273	0.356129
ZBTB25	366.5139246	468.9148927	1.279391753	0.355458
FKBP4	626.2655349	801.1555394	1.279258549	0.355308
SPTAN1	5246.762398	6710.372125	1.278954833	0.354965
CD79A	16.50963624	21.1122819	1.278785407	0.354774
MEP1A	16.50963624	21.1122819	1.278785407	0.354774
PPP4R4	16.50963624	21.1122819	1.278785407	0.354774
SSR2	1180.989313	1510.083742	1.278659956	0.354633
SDCBP	646.0770984	825.6013395	1.277868139	0.353739
MAP3K21	227.8329802	291.1272556	1.277809979	0.353673
SUPT3H	161.7944352	206.678128	1.277411845	0.353224
AUH	558.0257051	712.2617209	1.276395898	0.352076
TRIM25	930.0428418	1186.732477	1.275997646	0.351626
GTF3C1	4314.518272	5504.749712	1.275866589	0.351477
RPS16	1415.426147	1805.655689	1.275697564	0.351286
GAS2L1	183.8072835	234.4574463	1.275561239	0.351132
PAFAH1B2	434.7537544	554.475193	1.275377584	0.350924
ACAN	20.91220591	26.66814555	1.275243065	0.350772
BRINP3	20.91220591	26.66814555	1.275243065	0.350772
EFHD1	125.4732355	160.0088733	1.275243065	0.350772
ZNF345	125.4732355	160.0088733	1.275243065	0.350772
ZNF329	338.9978642	432.2461925	1.275070548	0.350577
CRYZ	398.4325547	507.8059383	1.274509154	0.349942
FBRS	996.0813867	1268.959259	1.273951382	0.34931
TNPO2	1009.289096	1285.62685	1.273794452	0.349132
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
EIF1B-AS1	11.61757147	1.111172731	10.45523449	3.386154
THCAT155	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	11.61757147	1.111172731	10.45523449	3.386154
ENSG000002	162.6460005	15.55641824	10.45523449	3.386154
CUTALP	81.32300027	7.77820912	10.45523449	3.386154
LINC02987	81.32300027	7.77820912	10.45523449	3.386154
RNF216P1	34.8527144	3.333518194	10.45523449	3.386154
ENSG000001	34.8527144	3.333518194	10.45523449	3.386154
BCAR3-AS1	34.8527144	3.333518194	10.45523449	3.386154
HBA2	1759.232251	168.8982552	10.4159291	3.38072
U2AF1	230.6917763	22.22345463	10.38055424	3.375812
DAPP1	115.3458881	11.11172731	10.38055424	3.375812
HULC	103.7283167	10.00055458	10.37225644	3.374658
RGS2	241.4795212	23.33462736	10.34854842	3.371357
CEP152	3492.739879	338.9076831	10.305874	3.365395
ENSG000002	45.64045934	4.444690926	10.26853388	3.360158
CEACAM5	318.6533888	31.11283648	10.24186236	3.356406
SAPCD2	181.7320108	17.7787637	10.22185872	3.353586
KIF24	1021.516463	100.0055458	10.21459814	3.352561
PPP3CB-AS1	68.04577574	6.667036389	10.20630034	3.351388
SMG1P5	34.02288787	3.333518194	10.20630034	3.351388
CARMIL3	34.02288787	3.333518194	10.20630034	3.351388
PCMTD1-DT	34.02288787	3.333518194	10.20630034	3.351388
HNRNPA3P6	90.45109214	8.889381852	10.17518357	3.346983
USP13	56.42820427	5.555863657	10.15651351	3.344333
ENSG000002	157.6670413	15.55641824	10.13517629	3.341299
NRAV	78.83352067	7.77820912	10.13517629	3.341299
PRIM1	336.9095725	33.33518194	10.10672667	3.337244
BEGAIN	414.9132667	41.11339106	10.09192518	3.33513
FGF7	44.8106328	4.444690926	10.08183326	3.333686
CCDC144A	44.8106328	4.444690926	10.08183326	3.333686
COX10-DT	44.8106328	4.444690926	10.08183326	3.333686
PCAT1	44.8106328	4.444690926	10.08183326	3.333686
LINC02963	44.8106328	4.444690926	10.08183326	3.333686
ENSG000002	44.8106328	4.444690926	10.08183326	3.333686
FJX1	22.4053164	2.222345463	10.08183326	3.333686
LINC01547	22.4053164	2.222345463	10.08183326	3.333686
FOXP1-IT1	22.4053164	2.222345463	10.08183326	3.333686
ENSG000001	67.2159492	6.667036389	10.08183326	3.333686
GJC1	1134.372871	113.3396186	10.00861733	3.323171
KBTBD8	55.59837774	5.555863657	10.00715301	3.32296
USP1	3397.309828	340.0188558	9.991533615	3.320706
EOLA2-DT	88.79143907	8.889381852	9.988482951	3.320266
FAM133B	66.38612267	6.667036389	9.957366182	3.315764
DLX6-AS1	33.19306133	3.333518194	9.957366182	3.315764
ENSG000002	33.19306133	3.333518194	9.957366182	3.315764
ADAMTS18	331.1007868	33.33518194	9.932472766	3.312153
SLC16A7	165.1354801	16.66759097	9.907579351	3.308533
ZMAT4	822.3580946	83.33795486	9.867749886	3.302721
SRSF1	251.4374396	25.55697282	9.838310717	3.298411
POLA2	65.55629614	6.667036389	9.832899105	3.297617
ZFP41	65.55629614	6.667036389	9.832899105	3.297617
ZNF892	207.4566333	21.1122819	9.826348206	3.296655
SLC7A14	719.4596044	73.33740027	9.810268727	3.294293
SMAD9	3009.780837	307.7948466	9.778529099	3.289617
PDCD5	553.4942978	56.6698093	9.76700477	3.287916
KLK11	466.3625118	47.78042745	9.760534525	3.28696
SCN2A	2420.603998	248.9026918	9.725101725	3.281713
TSPAN7	43.15097974	4.444690926	9.708432027	3.279238
CENPBD2P	43.15097974	4.444690926	9.708432027	3.279238
BAALC-AS1	43.15097974	4.444690926	9.708432027	3.279238
MT-TM	21.57548987	2.222345463	9.708432027	3.279238
TPM3P9	21.57548987	2.222345463	9.708432027	3.279238
RTEL1	21.57548987	2.222345463	9.708432027	3.279238
RUNDC3B	10.78774493	1.111172731	9.708432027	3.279238
CKMT2	10.78774493	1.111172731	9.708432027	3.279238
DDIT4L	10.78774493	1.111172731	9.708432027	3.279238
CSNK1A1L	10.78774493	1.111172731	9.708432027	3.279238
OR8G2P	10.78774493	1.111172731	9.708432027	3.279238
LINC00471	10.78774493	1.111172731	9.708432027	3.279238
Y_RNA.26	10.78774493	1.111172731	9.708432027	3.279238
RPL37P18	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
LINC02696	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ZNF566-AS1	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
MIR223HG	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
LINC02335	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
SNHG4	10.78774493	1.111172731	9.708432027	3.279238
RELA-DT	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ENSG000002	10.78774493	1.111172731	9.708432027	3.279238
ARL17A	32.3632348	3.333518194	9.708432027	3.279238
ENSG000002	32.3632348	3.333518194	9.708432027	3.279238
ZMPSTE24-I	32.3632348	3.333518194	9.708432027	3.279238
VTA1	431.4518272	1058.02883	2.452252519	1.294108
RCC1	135.3790172	331.9306133	2.451861597	1.293878
YTHDF2	879.4132906	2155.889334	2.451508701	1.29367
HPF1	184.9079259	453.0852872	2.450329184	1.292976
NPIPA9	17.61027866	43.15097974	2.450329184	1.292976
ENSG000002	17.61027866	43.15097974	2.450329184	1.292976
CFAP418-AS	8.80513933	21.57548987	2.450329184	1.292976
DLGAP1-AS2	8.80513933	21.57548987	2.450329184	1.292976
NRTN	4.402569665	10.78774493	2.450329184	1.292976
TMPRSS9	4.402569665	10.78774493	2.450329184	1.292976
EXOC3L1	4.402569665	10.78774493	2.450329184	1.292976
GP1BA	4.402569665	10.78774493	2.450329184	1.292976
DDAH2	4.402569665	10.78774493	2.450329184	1.292976
ENSG000002	4.402569665	10.78774493	2.450329184	1.292976
RPS27P4	4.402569665	10.78774493	2.450329184	1.292976
NDUFV2-AS	4.402569665	10.78774493	2.450329184	1.292976
ENSG000002	4.402569665	10.78774493	2.450329184	1.292976
ENSG000002	4.402569665	10.78774493	2.450329184	1.292976
SNHG4	4.402569665	10.78774493	2.450329184	1.292976
HDAC2	1007.087811	2467.074284	2.449711194	1.292612
NARS2	209.1220591	512.0029711	2.448345111	1.291807
BCL10	160.6937928	393.3377768	2.447747172	1.291455
H2BC21	2061.503246	5045.345323	2.447410807	1.291256
VPS26A	434.7537544	1063.007789	2.445080182	1.289882
PSAT1	91.35332055	223.2233375	2.443516406	1.288959
KLHL42	294.9721676	720.289431	2.441889474	1.287998
LSS	92.45396297	225.7128171	2.441353619	1.287681
HAGH	203.618847	497.0660935	2.441159553	1.287567
ATE1	435.8543969	1063.837616	2.440809645	1.28736
CBX8	64.93790256	158.4968679	2.440745106	1.287322
NOMO2	376.4197064	918.6179724	2.440408823	1.287123
ATP6V1C1	614.1584683	1497.836893	2.438844321	1.286198
PFKP	1028.000017	2506.076131	2.437817208	1.28559
MOB4	33.01927249	80.49317374	2.437763393	1.285558
KCMF1	724.2227099	1765.041036	2.437152291	1.285196
PAK1	440.2569665	1072.965708	2.437135103	1.285186
PSMD10	100.1584599	243.9690008	2.435830194	1.284414
SNN	28.61670282	69.7054288	2.435830194	1.284414
SLC4A1	14.30835141	34.8527144	2.435830194	1.284414
AKIRIN1	248.7451861	605.7733694	2.435316956	1.28411
GLE1	374.2184215	911.1495336	2.434806736	1.283807
SLCO3A1	182.7066411	444.7870219	2.434432701	1.283586
ZNF829	38.52248457	93.77039827	2.434173167	1.283432
KPNB1	3475.828751	8459.251681	2.43373661	1.283173
CTDNEP1	78.14561156	190.0302761	2.431745972	1.281993
RHNO1	249.8458285	607.4330224	2.431231396	1.281687
WRAP53	79.24625397	192.5197557	2.429386199	1.280592
STC1	49.52890873	120.3248473	2.429386199	1.280592
MFSD4A	19.81156349	48.12993894	2.429386199	1.280592
BRD3OS	19.81156349	48.12993894	2.429386199	1.280592
NFATC4	9.905781747	24.06496947	2.429386199	1.280592
CPB2-AS1	9.905781747	24.06496947	2.429386199	1.280592
MTERF3	388.526773	943.5127684	2.428436942	1.280028
POLR2K	291.6702403	707.0122064	2.42401215	1.277397
ARL10	41.82441182	101.2388371	2.4205681	1.275346
TMSB10	1763.229151	4263.648728	2.418091106	1.273869
ZNF16	166.1970049	401.6360421	2.416626235	1.272994
FDPS	183.8072835	443.9571954	2.415340605	1.272227
SASS6	255.3490406	616.5611143	2.414581676	1.271773
SPCS2	272.9593192	658.8822675	2.413847856	1.271335
CAMK2N1	399.5331971	964.2584318	2.413462608	1.271104
B3GALT1	16.50963624	39.8316736	2.412631812	1.270608
SNHG12	11.00642416	26.55444907	2.412631812	1.270608
C1orf210	11.00642416	26.55444907	2.412631812	1.270608
FEZF1	5.503212081	13.27722453	2.412631812	1.270608
DHDDS-AS1	5.503212081	13.27722453	2.412631812	1.270608
KATNBL1P6	5.503212081	13.27722453	2.412631812	1.270608
LINC00299	5.503212081	13.27722453	2.412631812	1.270608
C10orf143	5.503212081	13.27722453	2.412631812	1.270608
ENSG000002	5.503212081	13.27722453	2.412631812	1.270608
ZNF818P	5.503212081	13.27722453	2.412631812	1.270608
ENSG000002	5.503212081	13.27722453	2.412631812	1.270608
CBX3	194.8137077	469.6818179	2.410927976	1.269589
PDCD2	346.7023611	835.6353191	2.410238328	1.269176
CFAP298	73.74304189	177.5828781	2.408130633	1.267914
RPL7L1	238.8394043	575.0697876	2.407767635	1.267696
GPR89A	96.85653263	233.1812559	2.407491261	1.267531
ZNF124	315.8843735	760.1211046	2.406327025	1.266833
MMP15	161.7944352	389.1886441	2.40545136	1.266308
CEP135	248.7451861	598.3049306	2.4052925	1.266212
THNSL1	99.05781747	238.1602151	2.404254618	1.26559
DNAL1	157.3918655	378.4008992	2.404196036	1.265555
ZNF551	255.3490406	613.2418082	2.401582582	1.263985
SAAL1	130.9764475	314.5042561	2.401227565	1.263772
MAP3K21	227.8329802	546.8556855	2.400248134	1.263184
ATP5MC1	169.4989321	406.6150013	2.398923676	1.262387
ALYREF	266.3554647	638.9664307	2.398923676	1.262387
CD207	12.10706658	29.04392867	2.398923676	1.262387
TNFAIP6	12.10706658	29.04392867	2.398923676	1.262387
ENSG000002	12.10706658	29.04392867	2.398923676	1.262387
ATP5ME	176.1027866	422.3817055	2.398495297	1.26213
ST8SIA4	139.7815869	335.2499195	2.398383986	1.262063
MFSD14B	555.8244202	1332.701413	2.397702159	1.261652
FAM200C	166.1970049	398.316736	2.396654117	1.261022
LRRC4C	49.52890873	118.6651943	2.395877424	1.260554
CCSER2	1725.807309	4133.365963	2.395033294	1.260046
PAQR8	56.13276323	134.4318984	2.394891872	1.259961
ZNF345	125.4732355	300.3972051	2.394113804	1.259492
CCDC81	25.31477557	60.57733694	2.392963617	1.258798
SHISA9	25.31477557	60.57733694	2.392963617	1.258798
STX10	114.4668113	273.842756	2.392333227	1.258418

CEP43	71.54175706	91.11616398	1.273608138	0.348921
STARD13	336.7965794	428.9126743	1.273506623	0.348806
ZKSCAN4	122.1713082	155.5641824	1.273328285	0.348604
MANEA	223.4304105	284.4602192	1.27314907	0.348401
HUWE1	17483.70478	22255.67864	1.272938368	0.348163
PIK3AP1	236.6381195	301.1278102	1.272524523	0.347693
ZBTB42	211.3233439	268.903801	1.27247561	0.347638
GTF3C5	516.2012932	656.7030843	1.272184113	0.347307
TMEM138	110.0642416	140.0077642	1.272054957	0.347161
PAFAH2	194.8137077	247.7915191	1.271940882	0.347032
MCM3AP	2062.603888	2623.478819	1.271925663	0.347014
SRGAP2B	84.74946605	107.7837549	1.271792732	0.346864
CACNG4	144.1841565	183.3435007	1.27159256	0.346636
OGT	6177.905883	7853.768866	1.27126716	0.346267
OSBPL11	509.5974387	647.8137024	1.27122637	0.346221
NBPF20	301.5760221	383.3545923	1.271170664	0.346158
FTSJ1	212.4239863	270.0149737	1.271113392	0.346093
ACOX1	1134.762331	1442.302205	1.271016992	0.345983
THSD1	93.55460539	118.8954823	1.270867231	0.345813
PCDHGC3	570.1327716	724.4846209	1.270729656	0.345657
MN1	285.0663858	362.2423104	1.270729656	0.345657
PRR36	2100.02573	2667.925728	1.270425257	0.345311
ZP1	34.11991491	43.33573653	1.270100956	0.344943
G2E3P1	34.11991491	43.33573653	1.270100956	0.344943
MYO1C	1555.207734	1974.553944	1.269639997	0.344419
CCDC92	72.64239948	92.22733671	1.269607521	0.344383
FADS1	183.8072835	233.3462736	1.269515925	0.344278
EFHC2	154.0899383	195.5664007	1.269170479	0.343886
MRPL52	119.9700234	152.2306642	1.268905848	0.343585
EHD1	681.2976557	864.4923851	1.268890885	0.343568
RETREG3	642.7751711	815.6007849	1.268874128	0.343549
GRHL2	2880.381203	3653.535941	1.268420977	0.343034
ACTL6A	347.8030036	441.1355744	1.26834895	0.342952
LRRC8E	133.1777324	168.8982552	1.268216932	0.342802
MRPL41	313.6830886	397.7998379	1.268158381	0.342735
ERCC6	954.2569749	1210.067105	1.26807258	0.342637
TMEM245	1733.511806	2197.899663	1.267888488	0.342428
MAPKBP1	283.9657434	360.019965	1.267828861	0.34236
CCDC115	99.05781747	125.5625187	1.267567991	0.342063
MRPL50	400.6338395	507.8059383	1.267506357	0.341993
PFDN2	150.788011	191.1217098	1.267486112	0.34197
NFYC	555.8244202	704.4835117	1.267456927	0.341937
PIGM	357.7087853	453.3584744	1.267395415	0.341867
NOL7	211.3233439	267.7926283	1.267217446	0.341664
LMO4	319.1863007	404.4668742	1.267181183	0.341623
ZNF701	336.7965794	426.6903289	1.266908143	0.341312
ZYG11B	803.4689639	1017.834222	1.266799675	0.341188
USP9X	7382.008686	9349.407362	1.266512647	0.340861
KIAA1522	2357.576056	2985.721129	1.266436823	0.340775
CLCN4	129.8758051	164.4535643	1.266237111	0.340548
SPRY4	129.8758051	164.4535643	1.266237111	0.340548
ARF5	389.6274154	493.3606928	1.266237111	0.340548
PSME3	429.2505424	543.3634657	1.265842234	0.340098
VPS45	551.4218506	697.8164753	1.265485716	0.339691
SETD1B	1876.59532	2374.576127	1.265363982	0.339552
BANF1	300.4753796	380.0210742	1.26473282	0.338833
NCKAP5L	344.5010763	435.5797107	1.264378374	0.338428
KCNB1	126.5738779	160.0088733	1.264153995	0.338172
MTHFD1L	283.9657434	358.9087923	1.263915809	0.3379
SEPTIN8	292.7708827	370.0205196	1.263856966	0.337833
DNAL1	157.3918655	198.8999189	1.263724261	0.337682
ATOX1	166.1970049	210.0116462	1.263630752	0.337575
NRDE2	744.0342734	940.0521308	1.263452726	0.337372
GNAI3	402.8351244	508.917111	1.263338473	0.337241
KREMEN1	315.8843735	398.9110106	1.262838697	0.33667
ZNF45	377.5203488	476.6931018	1.262695119	0.336506
MRPL43	403.9357668	510.0282837	1.262646999	0.336451
METTL3	883.8158603	1115.617422	1.262273594	0.336025
FAM50B	101.2591023	127.7848641	1.261959283	0.335665
C5	431.4518272	544.4746384	1.261959283	0.335665
DEPDC4	44.02569665	55.55863657	1.261959283	0.335665
COQ4	206.9207743	261.1255919	1.261959283	0.335665
TNN	26.41541799	33.33518194	1.261959283	0.335665
RAB39A	17.61027866	22.22345463	1.261959283	0.335665
UGT2B27P	17.61027866	22.22345463	1.261959283	0.335665
AGXT	13.207709	16.66759097	1.261959283	0.335665
SLC25A53	13.207709	16.66759097	1.261959283	0.335665
MIR3648-1	13.207709	16.66759097	1.261959283	0.335665
OR2M7	8.80513933	11.11172731	1.261959283	0.335665
SRRM3	8.80513933	11.11172731	1.261959283	0.335665
LRRIQ4	8.80513933	11.11172731	1.261959283	0.335665
RBM34	8.80513933	11.11172731	1.261959283	0.335665
ENSG000002	8.80513933	11.11172731	1.261959283	0.335665
ENSG000002	8.80513933	11.11172731	1.261959283	0.335665
KLHL4	4.402569665	5.555863657	1.261959283	0.335665
FOLR1	4.402569665	5.555863657	1.261959283	0.335665
IAPP	4.402569665	5.555863657	1.261959283	0.335665
RFPL3	4.402569665	5.555863657	1.261959283	0.335665
DMRT1	4.402569665	5.555863657	1.261959283	0.335665
INA	4.402569665	5.555863657	1.261959283	0.335665
MATN1	4.402569665	5.555863657	1.261959283	0.335665
ALPG	4.402569665	5.555863657	1.261959283	0.335665
CDX2	4.402569665	5.555863657	1.261959283	0.335665
MAP6D1	4.402569665	5.555863657	1.261959283	0.335665
RNF135	4.402569665	5.555863657	1.261959283	0.335665
SPNS3	4.402569665	5.555863657	1.261959283	0.335665
ASCL2	4.402569665	5.555863657	1.261959283	0.335665
LRRC3C	4.402569665	5.555863657	1.261959283	0.335665
TRAJ50	4.402569665	5.555863657	1.261959283	0.335665
UGT1A9	4.402569665	5.555863657	1.261959283	0.335665
RTEL1P1	4.402569665	5.555863657	1.261959283	0.335665
UNC13A	1181.672984	122.2290005	9.667697347	3.273172
SCARNA7	590.0066652	61.11450023	9.654119121	3.271145
ZNF561-AS1	53.10889814	5.555863657	9.559071535	3.25687
GMDS-DT	158.4968679	16.66759097	9.509284704	3.249337
SMC1B	116.1757147	12.22290005	9.504758628	3.24865
ARMC3	190.0302761	20.00110917	9.500986899	3.248077
C12orf56	73.85456147	7.77820912	9.495059895	3.247177
CDKN1A	1645.546016	173.3429461	9.49300824	3.246865
MRPS36	179.2425312	18.88993643	9.488784244	3.246223
RAD51	210.7759395	22.22345463	9.484391288	3.245555
GAS5	94.6002248	10.00055458	9.459497873	3.241764
C21orf58	355.9955828	37.77987287	9.422889909	3.23617
LIN9	585.8575326	62.22567296	9.415045345	3.234968
UCHL1	983.344442	104.4502368	9.414477866	3.234881
BAIAP2-DT	104.5581432	11.11172731	9.409711042	3.23415
MIR9-1HG	52.2790716	5.555863657	9.409711042	3.23415
ANKRD18B	198.3285415	21.1122819	9.393988885	3.231738
SCML2	814.0598292	86.67147305	9.392477139	3.231506
CCNB1	792.4843394	84.44912759	9.384162537	3.230228
SST	239.8198681	25.55697282	9.383735304	3.230162
ATP8A2	592.4961448	63.33684569	9.354683492	3.225689
ADAMTS6	280.4813683	30.00166375	9.348860471	3.224791
H2BC18	2492.798906	266.6814555	9.347477503	3.224577
TDG	1027.325248	110.0061004	9.338802525	3.223238
CISH	82.98265334	8.889381852	9.335030795	3.222655
C20orf203	20.74566333	2.222345463	9.335030795	3.222655
PDCL3P5	20.74566333	2.222345463	9.335030795	3.222655
PPM1N	20.74566333	2.222345463	9.335030795	3.222655
DPH5-DT	20.74566333	2.222345463	9.335030795	3.222655
ENSG000002	20.74566333	2.222345463	9.335030795	3.222655
ENSG000002	20.74566333	2.222345463	9.335030795	3.222655
BRCA1	4099.343075	440.0244016	9.316172147	3.219737
CEP85L	858.0406355	92.22733671	9.303539125	3.21778
KIF20B	671.3296655	72.22622754	9.294818355	3.216427
H2BC8	3214.74799	346.6858922	9.272797257	3.213005
CDH12	123.6441535	13.33407278	9.272797257	3.213005
NTF3	102.8984901	11.11172731	9.260350549	3.211067
KREMEN2	51.44924507	5.555863657	9.260350549	3.211067
CHGA	82.1528268	8.889381852	9.241680488	3.208155
NMI	195.0092353	21.1122819	9.236767313	3.207388
ENSG000002	30.70358173	3.333518194	9.210563718	3.203289
ENSG000002	30.70358173	3.333518194	9.210563718	3.203289
CHGB	562.6223896	61.11450023	9.206037643	3.20258
CBS	194.1794088	21.1122819	9.197461921	3.201236
CRABP1	1653.844281	180.0099825	9.187514259	3.199675
SEPTIN3	204.1373272	22.22345463	9.185670303	3.199385
TFRC	5130.817456	560.0310566	9.161665938	3.19561
CERKL	193.3495823	21.1122819	9.158156528	3.195057
ARC	40.66150013	4.444690926	9.14833018	3.193508
PRELID1P6	40.66150013	4.444690926	9.14833018	3.193508
KCNH8	872.9775131	95.5608549	9.135304555	3.191453
PLK4	1410.705107	154.4530097	9.133555311	3.191177
TMPO	7214.511881	790.0438121	9.131787087	3.190897
LETM2	101.2388371	11.11172731	9.110990056	3.187608
LINC00847	50.61941854	5.555863657	9.110990056	3.187608
SHISA9	60.57733694	6.667036389	9.086096641	3.183661
PSMD7P1	60.57733694	6.667036389	9.086096641	3.183661
STC2	373.42194	41.11339106	9.082732666	3.183126
CAMK2B	563.4522162	62.22567296	9.054979872	3.178711
RGS16	371.7622869	41.11339106	9.042364965	3.1767
MTCH2	280.4813683	31.11283648	9.014972597	3.172323
NPM1P27	139.4108576	15.55641824	8.961629564	3.163761
SPX	39.8316736	4.444690926	8.961629564	3.163761
NTSR1	19.9158368	2.222345463	8.961629564	3.163761
ENSG000002	19.9158368	2.222345463	8.961629564	3.163761
ENSG000002	19.9158368	2.222345463	8.961629564	3.163761
ENSG000002	19.9158368	2.222345463	8.961629564	3.163761
ZC3H11A	9.9579184	1.111172731	8.961629564	3.163761
PROC	9.9579184	1.111172731	8.961629564	3.163761
OR6A2	9.9579184	1.111172731	8.961629564	3.163761
GIMAP1	9.9579184	1.111172731	8.961629564	3.163761
YWHAZP5	9.9579184	1.111172731	8.961629564	3.163761
RPL21P72	9.9579184	1.111172731	8.961629564	3.163761
SPOPL-DT	9.9579184	1.111172731	8.961629564	3.163761
MTND1P11	9.9579184	1.111172731	8.961629564	3.163761
SNRPFP1	9.9579184	1.111172731	8.961629564	3.163761
SRD5A1P1	9.9579184	1.111172731	8.961629564	3.163761
LLPHP3	9.9579184	1.111172731	8.961629564	3.163761
EPM2A-DT	9.9579184	1.111172731	8.961629564	3.163761
EOLA1-DT	9.9579184	1.111172731	8.961629564	3.163761
EMSY-DT	9.9579184	1.111172731	8.961629564	3.163761
G2E3-AS1	9.9579184	1.111172731	8.961629564	3.163761
MRFAP1P1	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
ASAP1-IT2	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
ENSG000002	9.9579184	1.111172731	8.961629564	3.163761
RAB30-DT	209.1162864	23.33462736	8.961629564	3.163761
CASC9	59.7475104	6.667036389	8.961629564	3.163761
FXYD6	29.8737552	3.333518194	8.961629564	3.163761
AP1S3	29.8737552	3.333518194	8.961629564	3.163761
LINC00355	29.8737552	3.333518194	8.961629564	3.163761
TADA2A	109.5371024	12.22290005	8.961629564	3.163761
EFR3B	1292.039912	144.4524551	8.944395661	3.160984
CNTNAP5	844.763411	94.44968217	8.944057741	3.16093
ULBP1	108.7072759	12.22290005	8.893738431	3.15279
SNHG14	1610.693301	181.1211552	8.892905411	3.152655
MAGI2-AS3	88.79143907	10.00055458	8.878651512	3.150341
FAM162A	408.3383364	976.7058298	2.391903337	1.258159
GTPBP2	356.6081429	852.2318498	2.389827229	1.256906
NRAS	483.1820208	1154.288708	2.388931414	1.256365
PSMA5	467.7730269	1116.946514	2.387795896	1.25568
CNEP1R1	66.03854498	157.6670413	2.38750023	1.255501
AHRR	6.603854498	15.76670413	2.38750023	1.255501
TRPM5	6.603854498	15.76670413	2.38750023	1.255501
CHRNA1	6.603854498	15.76670413	2.38750023	1.255501
GABRB2	6.603854498	15.76670413	2.38750023	1.255501
A3GALT2	6.603854498	15.76670413	2.38750023	1.255501
TBC1D22A-I	6.603854498	15.76670413	2.38750023	1.255501
ENSG000002	6.603854498	15.76670413	2.38750023	1.255501
ENSG000002	6.603854498	15.76670413	2.38750023	1.255501
SWSAP1	19.81156349	47.3001124	2.38750023	1.255501
F12	26.41541799	63.06681654	2.38750023	1.255501
SERPINB5	26.41541799	63.06681654	2.38750023	1.255501
ROPN1B	13.207709	31.53340827	2.38750023	1.255501
ZNF584-DT	13.207709	31.53340827	2.38750023	1.255501
TMEM164	133.1777324	317.8235623	2.386461735	1.254873
PPM1G	1191.995737	2844.645356	2.386455982	1.25487
DNAJB1	1044.509653	2491.139253	2.384984424	1.25398
UBE2M	203.618847	485.448522	2.384104071	1.253447
FAM91A1	761.6445521	1815.660455	2.383868499	1.253305
BSPRY	178.3040714	424.8711851	2.382846234	1.252686
EXOSC9	281.7644586	671.3296655	2.382591718	1.252532
IMMT	1197.498949	2851.283969	2.381032544	1.251587
SCGB1D2	20.91220591	49.789592	2.380886656	1.251499
DLGAP1-AS1	20.91220591	49.789592	2.380886656	1.251499
ENSG000002	41.82441182	99.579184	2.380886656	1.251499
IQCD	77.04496914	183.3916639	2.380319778	1.251155
DENND5B	479.8800935	1141.84131	2.379430456	1.250616
CAMSAP1	996.0813867	2369.984579	2.379308168	1.250542
MRPL33	242.1413316	575.8996142	2.378361473	1.249968
TAF5	114.4668113	272.1831029	2.377834237	1.249648
PSMA6	79.24625397	188.3706231	2.377028738	1.249159
PAX8-AS1	50.62955115	120.3248473	2.376573456	1.248883
BAX	152.9892959	363.4640216	2.375748052	1.248382
MPC1	124.372593	295.4182459	2.375268045	1.24809
ING2	220.1284833	522.790716	2.37493444	1.247888
RBM4	111.164884	263.8848376	2.373814716	1.247207
NDST4	37.42184215	88.79143907	2.372716947	1.24654
TAGLN2	540.4154264	1282.081994	2.372400808	1.246348
KCNN1	7.704496914	18.25618373	2.369549101	1.244613
MFAP5	7.704496914	18.25618373	2.369549101	1.244613
TM9SF5P	7.704496914	18.25618373	2.369549101	1.244613
SRP54-AS1	7.704496914	18.25618373	2.369549101	1.244613
ENSG000002	7.704496914	18.25618373	2.369549101	1.244613
ENSG000002	7.704496914	18.25618373	2.369549101	1.244613
MTF2	554.7237778	1314.445229	2.369549101	1.244613
RAB30	146.3854414	346.8674909	2.369549101	1.244613
MBD3	38.52248457	91.28091867	2.369549101	1.244613
ID2	288.3683131	682.947237	2.368315817	1.243861
H3C12	24.21413316	57.2580308	2.364653338	1.241629
MIR3609	24.21413316	57.2580308	2.364653338	1.241629
RMDN1	373.1177791	882.105605	2.364147876	1.24132
SNRPG	129.8758051	307.0358173	2.364072485	1.241274
TMEM181	460.06853	1087.072759	2.362849636	1.240528
MYORG	132.07709	312.0147765	2.362368649	1.240234
PPP4R4	16.50963624	39.00184707	2.362368649	1.240234
CPSF3	666.9893043	1575.01076	2.361373339	1.239626
HTATSF1	846.3940181	1998.222292	2.360865329	1.239316
SCAI	260.8522527	615.7312878	2.360459921	1.239068
BBLN	25.31477557	59.7475104	2.360183294	1.238899
GINM1	558.0257051	1316.934708	2.359989328	1.23878
BUB3	618.561038	1459.664872	2.359774998	1.238649
SLC6A6	179.4047139	423.211532	2.358976656	1.238161
PSMB5	325.7901552	768.4193699	2.358632873	1.237951
PLPP4	42.92505424	101.2388371	2.358502252	1.237871
TUFT1	252.0471133	594.1557979	2.357320384	1.237148
KIAA1958	348.903646	822.3580946	2.356977647	1.236938
PSMA3	479.8800935	1131.053565	2.356950372	1.236921
TRNAU1AP	122.1713082	287.9498071	2.356934793	1.236912
FRAT1	8.80513933	20.74566333	2.356085754	1.236392
CCDC183	8.80513933	20.74566333	2.356085754	1.236392
TMEM200C	26.41541799	62.23699	2.356085754	1.236392
DGKH	451.2633907	1063.007789	2.355626029	1.236111
STK26	221.2291257	521.131063	2.355616881	1.236105
CEBPD	298.2740948	702.0332472	2.353651421	1.234901
ACADM	745.1349158	1753.423465	2.353162397	1.234601
RPAIN	223.4304105	525.2801956	2.350978967	1.233262
RALY-AS1	18.71092108	43.98080627	2.350542022	1.232993
USP2	47.3276239	111.1967555	2.34951063	1.23236
RPE	559.1263475	1313.615402	2.349407085	1.232297
DGKZ	341.1991491	801.6124312	2.34939751	1.232291
CABP4	38.52248457	90.45109214	2.348007745	1.231437
G2E3	539.314784	1266.31529	2.348007745	1.231437
ADPRS	68.23982981	160.1565209	2.346965422	1.230797
ZNF43	460.06853	1079.60432	2.346616318	1.230582
YARS2	177.203429	415.7430932	2.346134584	1.230286
ENSG000001	9.905781747	23.23514293	2.345614261	1.229966
SLC25A10	9.905781747	23.23514293	2.345614261	1.229966
ENSG000002	9.905781747	23.23514293	2.345614261	1.229966
ENSG000002	9.905781747	23.23514293	2.345614261	1.229966
MAPRE1	713.2162858	1672.930291	2.345614261	1.229966
SNORA22	49.52890873	116.1757147	2.345614261	1.229966
KDF1	121.0706658	283.8006744	2.344091135	1.229029
TFDP1	303.7773069	711.9911656	2.343793132	1.228845
THAP8	40.7237694	95.43005134	2.343350155	1.228573
MEA1	314.7837311	736.8859616	2.340927719	1.22708
NCAPH2	128.7751627	301.2270316	2.339170266	1.225997
LYRM4	172.8008594	404.1255217	2.338677731	1.225693

LINC02166	4.402569665	5.555863657	1.261959283	0.335665
CAPN10-DT	4.402569665	5.555863657	1.261959283	0.335665
ENSG000002	4.402569665	5.555863657	1.261959283	0.335665
ENSG000002	4.402569665	5.555863657	1.261959283	0.335665
ENSG000002	4.402569665	5.555863657	1.261959283	0.335665
SAR1A	1100.642416	1387.854742	1.260949715	0.334511
CCT5	1158.976464	1461.192142	1.260760841	0.334295
ATG4C	203.618847	256.680901	1.260595003	0.334105
HEXA	588.8436927	742.2633846	1.260544001	0.334046
GCLC	877.2120058	1105.616868	1.260375896	0.333854
MIDN	474.3768814	597.8109295	1.260202495	0.333656
KIFAP3	709.9143585	894.4940488	1.260002757	0.333427
BEND7	399.5331971	503.3612473	1.2598734	0.333279
HEATR5B	1780.83943	2243.457745	1.259775422	0.333167
B3GNT2	124.372593	156.6753551	1.259725727	0.33311
PRDM6	111.164884	140.0077642	1.259460354	0.332806
CDK16	840.8908061	1058.947613	1.259316436	0.332641
ANAPC13	214.6252712	270.0149737	1.258076331	0.331219
KCNC3	214.6252712	270.0149737	1.258076331	0.331219
CYP4F12	71.54175706	90.00499125	1.258076331	0.331219
TMEM120B	255.3490406	321.1289194	1.257607699	0.330682
KLF6	471.0749542	592.2550659	1.257241678	0.330262
ZNF704	1700.492533	2137.896335	1.25722183	0.330239
CNTLN	166.1970049	208.9004735	1.256944875	0.329921
ZNF317	431.4518272	542.2522929	1.256808429	0.329765
TMEM241	53.9314784	67.78153662	1.256808429	0.329765
PPAT	152.9892959	192.2328825	1.256511977	0.329424
RPLP2	1040.107083	1306.739132	1.256350575	0.329239
PROSER2	49.52890873	62.22567296	1.256350575	0.329239
KRT10	193.7130653	243.3468282	1.256223104	0.329093
SEC13	974.0685384	1223.401177	1.255970323	0.328802
GADD45B	90.25267814	113.3396186	1.255803384	0.328611
TK2	90.25267814	113.3396186	1.255803384	0.328611
COL13A1	90.25267814	113.3396186	1.255803384	0.328611
EYS	45.12633907	56.6698093	1.255803384	0.328611
ILF3	2232.10282	2802.377629	1.255487697	0.328248
ARMCX3	574.5353413	721.1511027	1.255190153	0.327906
SNAPIN	117.7687385	147.7859733	1.254882876	0.327553
IFT172	1175.486101	1474.526215	1.25439698	0.326994
SOCS6	290.5695979	364.4646559	1.254311045	0.326895
CLIC5	36.32119974	45.55808199	1.254311045	0.326895
ZNF728	36.32119974	45.55808199	1.254311045	0.326895
CFAP70	567.9314868	712.2617209	1.254133179	0.326691
FECH	486.483948	610.0338296	1.253964971	0.326497
COX6A1	95.75589022	120.006655	1.253256115	0.325681
TMEM88	63.83726015	80.00443666	1.253256115	0.325681
PHC1P1	63.83726015	80.00443666	1.253256115	0.325681
RRAS	127.6745203	160.0088733	1.253256115	0.325681
KDM3A	985.0749626	1234.512905	1.253217219	0.325636
ITGA6	1708.19703	2140.118681	1.25285236	0.325216
FANCM	356.6081429	446.691438	1.252611436	0.324939
FADD	114.4668113	143.3412824	1.252251904	0.324525
CDK11B	591.0449776	740.0410391	1.25208921	0.324337
LYPD3	165.0963624	206.678128	1.251863609	0.324077
FAM177A1	744.0342734	931.1627489	1.251505182	0.323664
MEN1	739.6317038	925.6068853	1.251442955	0.323593
GTF2F1	700.0085768	875.6041124	1.250847692	0.322906
ESRRA	96.85653263	121.1178277	1.250486926	0.32249
DPP9	1030.201302	1287.849196	1.250094708	0.322037
NCMAP	46.22698148	57.78098203	1.249940623	0.32186
P2RY4	46.22698148	57.78098203	1.249940623	0.32186
UBXN1	430.3511848	537.807602	1.249694717	0.321576
RBM4B	450.1627483	562.2534021	1.249000288	0.320774
WNT2B	106.7623144	133.3407278	1.248949393	0.320715
ZBTB10	1764.329793	2203.455526	1.248890958	0.320648
CPNE3	2128.642433	2657.925174	1.248648027	0.320367
C11orf80	841.9914485	1051.169404	1.248432399	0.320118
HHIPL1	60.5353329	75.55974574	1.248192454	0.31984
RPL18A	611.9571835	763.3756665	1.247433133	0.318962
ENSG000002	37.42184215	46.66925472	1.247112703	0.318592
C16orf74	18.71092108	23.33462736	1.247112703	0.318592
ZNF322P1	18.71092108	23.33462736	1.247112703	0.318592
ENSG000002	18.71092108	23.33462736	1.247112703	0.318592
IMPDH1	187.1092108	233.3462736	1.247112703	0.318592
AGFG1	1675.177758	2089.004735	1.247034666	0.318502
INPP5B	435.8543969	543.3634657	1.246662807	0.318071
CBFA2T2	979.5717505	1221.178832	1.24664562	0.318051
POLR3D	126.5738779	157.7865279	1.2465963	0.317994
BACE1-AS	89.15203572	111.1172731	1.246379539	0.317743
KCTD2	140.8822293	175.5652916	1.246184792	0.317518
AKT1	2218.895111	2764.597756	1.245934403	0.317228
RFNG	136.4796596	170.0094279	1.245675937	0.316929
PITPNM3	183.8072835	228.9015827	1.245334669	0.316534
RPL24P4	183.8072835	228.9015827	1.245334669	0.316534
MORC4	556.9250626	693.3717844	1.245000146	0.316146
DNMT1	915.7344904	1140.063222	1.244971369	0.316113
GLB1L	127.6745203	158.8977006	1.244552948	0.315628
AP5S1	47.3276239	58.89215477	1.244350549	0.315393
CEP250	960.8608294	1195.621859	1.244323655	0.315362
TRIM13	265.2548223	330.0183012	1.244155708	0.315167
ZFP37	108.9635992	135.5630732	1.244113394	0.315118
FASTKD1	326.8907976	406.6892197	1.244113394	0.315118
PCOLCE	862.9036544	1073.392859	1.243931293	0.314907
VOPP1	123.2719506	153.3418369	1.243931293	0.314907
HPCAL1	151.8886534	188.8993643	1.243670018	0.314604
ZNF334	1519.987177	1890.104816	1.243500501	0.314407
PCBP4	209.1220591	260.0144192	1.243361988	0.314246
URI1	1463.854414	1818.989761	1.242602915	0.313365
L3MBTL1	57.23340565	71.11505481	1.242544525	0.313298
TDRD12	28.61670282	35.55752741	1.242544525	0.313298
ING2	522.790716	58.89215477	8.877085889	3.150086
IPMK	709.501686	80.00443666	8.868279256	3.148654
MTHFD2	590.8364918	66.67036389	8.862055902	3.147641
SBF2-AS1	68.87560227	7.77820912	8.854943497	3.146483
RTKN2	521.131063	58.89215477	8.848904663	3.145499
CFAP298-TC	48.95976547	5.555863657	8.812269071	3.139514
ENSG000002	48.95976547	5.555863657	8.812269071	3.139514
SCN9A	1791.595486	203.3446099	8.810636716	3.139246
DGKG	87.96161254	10.00055458	8.795673461	3.136794
ACAA2	555.9837774	63.33684569	8.778204397	3.133926
GPATCH11	156.0073883	17.7787637	8.774928948	3.133387
RRM1	2093.652344	238.9021373	8.763640073	3.13153
SLC8A1	1905.281721	217.7898554	8.748257431	3.128996
CASR	223.2233375	25.55697282	8.734341857	3.126699
MATR3	116.1757147	13.33407278	8.712695409	3.123119
CELF5	29.04392867	3.333518194	8.712695409	3.123119
S100Z	29.04392867	3.333518194	8.712695409	3.123119
KCNK9	164.3056536	18.88993643	8.698052224	3.120692
NGF	106.2177963	12.22290005	8.690065031	3.119367
HMCN2	2570.8026	296.6831193	8.665146189	3.115224
SUZ12P1	96.25987787	11.11172731	8.662908578	3.114851
PDK1	950.9812072	110.0061004	8.644804276	3.111833
TSPEAR	67.2159492	7.77820912	8.641571365	3.111294
PCDH17	220.7338579	25.55697282	8.63693284	3.110519
KCNQ1OT1	719.4596044	83.33795486	8.63303648	3.109868
PCBP1-AS1	95.43005134	11.11172731	8.588228332	3.102361
CFAP77	286.290154	33.33518194	8.588228332	3.102361
SH2D2A	19.08601027	2.222345463	8.588228332	3.102361
C1orf50	19.08601027	2.222345463	8.588228332	3.102361
LINC00899	19.08601027	2.222345463	8.588228332	3.102361
NIFK-AS1	19.08601027	2.222345463	8.588228332	3.102361
FUNDC2P1	19.08601027	2.222345463	8.588228332	3.102361
MIRLET7IH	19.08601027	2.222345463	8.588228332	3.102361
ENSG000002	19.08601027	2.222345463	8.588228332	3.102361
ENSG000002	19.08601027	2.222345463	8.588228332	3.102361
CD302	57.2580308	6.667036389	8.588228332	3.102361
MIR3609	57.2580308	6.667036389	8.588228332	3.102361
ENSG000002	532.7486344	62.22567296	8.561556815	3.097873
THY1	332.7604399	38.8910456	8.556222512	3.096974
MCM3	4642.049628	543.3634657	8.543175831	3.094772
PLA2G3	47.3001124	5.555863657	8.513548085	3.089761
NCAPG2	2370.814406	278.9043556	8.500456728	3.08754
LGSN	198.3285415	23.33462736	8.499323277	3.087348
ENSG000002	28.21410213	3.333518194	8.463761255	3.081299
ENSG000002	28.21410213	3.333518194	8.463761255	3.081299
BMP7	1089.562238	128.8960368	8.453031334	3.079469
OBI1	1042.262126	123.3401732	8.450305354	3.079003
ELOVL2	516.1521038	61.11450023	8.445656952	3.07821
H2AC8	2682.829182	317.7954012	8.442001276	3.077585
KCNK10	93.77039827	11.11172731	8.438867839	3.077049
OIP5-AS1	253.0970927	30.00166375	8.436101904	3.076577
MFSD2A	159.3266944	18.88993643	8.434474883	3.076298
LINC00938	65.55629614	7.77820912	8.428199232	3.075224
CELF3	234.0110824	27.77931829	8.42393179	3.074494
RASAL1	168.4547863	20.00110917	8.422272229	3.07421
ARL6IP1	2524.332315	300.0166375	8.413974424	3.072787
DPF1	317.8235623	37.77987287	8.412510105	3.072536
MTBP	924.4267582	110.0061004	8.403413581	3.070975
ALOX5	74.684388	8.889381852	8.401527716	3.070652
CDH7	195.8390619	23.33462736	8.39263721	3.069124
RASSF6	736.0561351	87.78264578	8.384984623	3.067808
ZNF93	604.9435428	72.22622754	8.375676861	3.066206
TBX21	46.47028587	5.555863657	8.364187593	3.064225
GCHFR	46.47028587	5.555863657	8.364187593	3.064225
GABPB1-AS	148.5389495	17.7787637	8.354852562	3.062614
TIMM10B	82.98265334	10.00055458	8.297805152	3.05273
EMP2	1051.390218	127.7848641	8.227814969	3.040509
PIF1	73.02473494	8.889381852	8.2148271	3.03823
ENSG000002	36.51236747	4.444690926	8.2148271	3.03823
MAD1L1	18.25618373	2.222345463	8.2148271	3.03823
HOXD10	18.25618373	2.222345463	8.2148271	3.03823
GABBR1	18.25618373	2.222345463	8.2148271	3.03823
POT1-AS1	18.25618373	2.222345463	8.2148271	3.03823
RPL14P3	18.25618373	2.222345463	8.2148271	3.03823
SCARNA1	18.25618373	2.222345463	8.2148271	3.03823
SRP54-AS1	18.25618373	2.222345463	8.2148271	3.03823
ENSG000002	18.25618373	2.222345463	8.2148271	3.03823
ZNF528-AS1	18.25618373	2.222345463	8.2148271	3.03823
ENSG000002	18.25618373	2.222345463	8.2148271	3.03823
GLIDR	18.25618373	2.222345463	8.2148271	3.03823
ENSG000002	18.25618373	2.222345463	8.2148271	3.03823
TBR1	9.128091867	1.111172731	8.2148271	3.03823
KCNMB1	9.128091867	1.111172731	8.2148271	3.03823
ZMIZ1-AS1	9.128091867	1.111172731	8.2148271	3.03823
LINC00240	9.128091867	1.111172731	8.2148271	3.03823
LINC00115	9.128091867	1.111172731	8.2148271	3.03823
ZNF567-DT	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
LINC00702	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
PRKCH-AS1	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
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ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ARPC5	624.06425	1458.835046	2.337635981	1.22505
CHMP4C	231.1349074	540.2170732	2.337237068	1.224804
SH3PXD2B	619.6616804	1448.047301	2.336835319	1.224556
PRPF4	452.3640331	1056.369177	2.335219203	1.223558
JRK	181.6059987	424.0413586	2.334952378	1.223393
CTNNBIP1	34.11991491	79.6633472	2.334804979	1.223302
SNCAIP	266.3554647	621.5400735	2.333498485	1.222495
HNRNPA0	509.5974387	1189.141422	2.333491756	1.22249
PGS1	221.2291257	516.1521038	2.333110987	1.222255
TIMM13	128.7751627	300.3972051	2.332726271	1.222017
STPG1	178.3040714	415.7430932	2.331652272	1.221353
ZNF225-AS1	60.5353329	141.0705107	2.330383	1.220567
LAMTOR5-A	36.32119974	84.6423064	2.330383	1.220567
ELOVL7	133.1777324	310.3551235	2.330383	1.220567
SCN1B	12.10706658	28.21410213	2.330383	1.220567
ENSG000002	12.10706658	28.21410213	2.330383	1.220567
CNOT6	980.6723929	2283.68262	2.328690637	1.219519
RNPS1	827.6830971	1926.85721	2.328013242	1.219099
HMGN3	504.0942267	1173.374718	2.327689261	1.218898
PPM1L	216.826556	504.5345323	2.326903778	1.218412
TTF1	556.9250626	1295.359219	2.325912956	1.217797
RRP36	197.0149925	458.0642464	2.325022277	1.217245
CNN3-DT	13.207709	30.70358173	2.324671277	1.217027
IQCJ-SCHIP1	13.207709	30.70358173	2.324671277	1.217027
GANAB	2404.90368	5582.24309	2.321191962	1.214866
ZNF670	56.13276323	130.2827657	2.320975456	1.214731
GNB5	183.8072835	426.5308382	2.320532843	1.214456
DLX6-AS1	14.30835141	33.19306133	2.31983828	1.214024
PPTC7	169.4989321	392.5079503	2.315695712	1.211446
SNX10	77.04496914	178.4127047	2.315695712	1.211446
MRPL42	539.314784	1248.888933	2.315695712	1.211446
ACVR2B	139.7815869	323.632348	2.31527167	1.211181
ZFTRAF1	31.91863007	73.85456147	2.313838699	1.210288
LRRC58	427.0492575	987.4935747	2.312364575	1.209369
KDM2B	388.526773	897.8723091	2.310966378	1.208496
SRGAP2B	84.74946605	195.8390619	2.310799949	1.208392
ABCB7	430.3511848	994.132187	2.310048682	1.207923
ENSG000002	51.73019357	119.4950208	2.309966628	1.207872
DENR	385.2248457	889.5740438	2.309233305	1.207414
TP53I11	368.7152095	851.4020232	2.3091047	1.207334
DMAC2	265.2548223	612.4119816	2.308768513	1.207124
SLC41A3	182.7066411	421.551879	2.307260844	1.206181
ENSG000002	18.71092108	43.15097974	2.306192173	1.205513
SUPT16H	2062.603888	4753.246383	2.30448823	1.204446
TXNRD1	806.7708911	1858.811435	2.304014008	1.204149
SNHG10	19.81156349	45.64045934	2.303728292	1.203971
FAM171A2	60.5353329	139.4108576	2.302966729	1.203494
MRGBP	82.54818122	190.0302761	2.302052854	1.202921
RAB33B-AS1	41.82441182	96.25987787	2.301523768	1.202589
CCDC96	20.91220591	48.12993894	2.301523768	1.202589
AOPEP	594.3469048	1367.554127	2.300935894	1.202221
HSDL2	449.0621058	1033.134034	2.300648442	1.202041
PITPNM1	280.6638162	645.605043	2.30027886	1.201809
FBXO46	304.8779493	701.2034207	2.29994797	1.201601
ESAM	44.02569665	101.2388371	2.299539695	1.201345
EIF6	160.6937928	369.2728073	2.297990488	1.200373
ACADS	46.22698148	106.2177963	2.297744582	1.200218
PSMG2	395.1306275	907.8302275	2.29754457	1.200093
KCNQ3	24.21413316	55.59837774	2.296112662	1.199193
NRBF2	97.95717505	224.8829905	2.295727602	1.198951
CFAP68	147.4860838	338.5692256	2.295601164	1.198872
NBR2	25.31477557	58.08785734	2.294622647	1.198257
H4C16	256.449683	588.3470122	2.294200583	1.197992
FAM83F	130.9764475	300.3972051	2.293520787	1.197564
BOLA1	26.41541799	60.57733694	2.2932568	1.197398
ENSG000002	26.41541799	60.57733694	2.2932568	1.197398
CFAP20	344.5010763	789.9948598	2.293156434	1.197335
SLC25A4	297.1734524	681.2875839	2.292558701	1.196959
KANTR	55.03212081	126.1336331	2.292000221	1.196607
PFDN4	141.9828717	325.2920011	2.291065092	1.196018
JPT2	345.6017187	791.6545128	2.290655601	1.195761
ATP8B3	29.71734524	68.04577574	2.289766303	1.1952
MTAP	181.6059987	415.7430932	2.289258594	1.19488
SLC22A15	62.73661773	143.5599903	2.28829662	1.194274
HSD17B10	197.0149925	450.5958076	2.287114305	1.193528
CRY1	405.0364092	926.0864112	2.286427566	1.193095
C1orf112	413.8415485	946.002248	2.285904476	1.192765
ENSG000002	35.22055732	80.49317374	2.285403181	1.192449
MEIS3	37.42184215	85.47213294	2.284017248	1.191574
FBXO33	226.7323378	517.8117568	2.283801958	1.191438
ID4	114.4668113	261.395358	2.283590807	1.191304
MEG3	118.869381	271.3532764	2.282785308	1.190795
EIPR1	202.5182046	462.2133791	2.282330026	1.190507
DCUN1D3	82.54818122	188.3706231	2.281947588	1.190266
ZNF727	84.74946605	193.3495823	2.281425374	1.189935
MAN2A1	682.3982981	1556.754577	2.281299032	1.189856
SLC25A39	301.5760221	687.9261962	2.281103754	1.189732
GRK6	176.1027866	401.6360421	2.280691009	1.189471
PLEKHJ1	44.02569665	100.4090105	2.280691009	1.189471
TMX2P1	44.02569665	100.4090105	2.280691009	1.189471
TUSC1	46.22698148	105.3879697	2.279793453	1.188903
FHAD1	97.95717505	223.2233375	2.278784963	1.188265
INTS8	1532.094243	3489.420573	2.277549562	1.187482
SERTAD3	53.9314784	122.8143269	2.277229006	1.187279
KCNN3	55.03212081	125.3038065	2.276921272	1.187084
ATP5PF	758.3426248	1726.039189	2.276067747	1.186543
SMNDC1	308.1798766	701.2034207	2.275305671	1.18606
COX6A1P2	70.44111464	160.1565209	2.273622752	1.184993
ZBTB5	446.860821	1015.707677	2.272984404	1.184588
PDGFD	86.95075089	197.4987149	2.271385962	1.183573
MRPS35	442.4582514	1004.919932	2.271219779	1.183467

ENSG000002	28.61670282	35.55752741	1.242544525	0.313298
BTBD16	14.30835141	17.7787637	1.242544525	0.313298
SHCBP1L	14.30835141	17.7787637	1.242544525	0.313298
EMC3-AS1	14.30835141	17.7787637	1.242544525	0.313298
ACE	71.54175706	88.89381852	1.242544525	0.313298
RPA2	253.1477557	314.461883	1.242206877	0.312905
NOTCH1	1944.83515	2415.689518	1.242105028	0.312787
CARMIL1	921.2377024	1143.396741	1.241152786	0.311681
TSPAN33	52.83083598	65.55919115	1.240926628	0.311418
PIERCE1	52.83083598	65.55919115	1.240926628	0.311418
NFE2L2	2862.770925	3552.419222	1.240902369	0.31139
KLHL20	298.2740948	370.0205196	1.240538572	0.310967
GTF2H3	154.0899383	191.1217098	1.240325695	0.310719
MINDY1	139.7815869	173.3429461	1.240098571	0.310455
PRPF40B	236.6381195	293.3496011	1.239654886	0.309939
CRELD2	323.5888704	401.133356	1.239638915	0.30992
DCTN5	347.8030036	431.1350198	1.239595447	0.309869
JADE2	454.5653179	563.3645748	1.239347906	0.309581
LONP2	2809.940089	3482.41534	1.239320139	0.309549
LZTS3	193.7130653	240.01331	1.239014569	0.309193
CLYBL	48.42826632	60.0033275	1.239014569	0.309193
TMEM231	24.21413316	30.00166375	1.239014569	0.309193
METTL25	217.9271984	270.0149737	1.239014569	0.309193
PHLDB2	930.0428418	1152.286123	1.238960262	0.30913
APOOL	383.0235609	474.4707563	1.238750836	0.308886
USF2	713.2162858	883.3823215	1.238589666	0.308698
C19orf44	237.7387619	294.4607738	1.238589666	0.308698
RNF220	539.314784	667.8148116	1.238265353	0.308321
GPR160	738.5310613	914.495158	1.238262283	0.308317
RNF4	116.6680961	144.4524551	1.23814873	0.308185
LAPTM4A	1857.884399	2300.127554	1.238035884	0.308053
SPTBN2	2695.473278	3336.851713	1.237946501	0.307949
TUBG2	379.7216336	470.0260654	1.237817453	0.307799
PWWP3A	604.2526865	747.8192483	1.237593584	0.307538
AFF3	682.3982981	844.4912759	1.237534264	0.307468
IFFO1	102.3597447	126.6736914	1.237534264	0.307468
PPP2R3A	828.7837395	1025.612431	1.237491015	0.307418
ENOX2	224.5310529	277.7931829	1.237214983	0.307096
TOMM20	414.9421909	513.3618019	1.237188729	0.307066
TAF8	342.2997915	423.3568107	1.236801252	0.306614
ZNF518A	1442.942208	1784.543407	1.236739349	0.306541
MXD1	44.02569665	54.44746384	1.236720097	0.306519
NLGN1	572.3340565	707.8170299	1.236720097	0.306519
PPP2R3C	259.7516102	321.1289194	1.236292314	0.30602
NOS1AP	161.7944352	200.0110917	1.236205012	0.305918
SIPA1L1	1128.158477	1394.521778	1.236104507	0.305801
GPR176	117.7687385	145.5636278	1.236012456	0.305693
ZSCAN23	117.7687385	145.5636278	1.236012456	0.305693
TIMM17A	235.5374771	291.1272556	1.236012456	0.305693
PCNX1	3259.002195	4028.001151	1.235961473	0.305634
SMG8	245.4432588	303.3501557	1.235927836	0.305595
TTC7A	309.280519	382.2434196	1.235911725	0.305576
ATIC	947.6531204	1171.176059	1.235869997	0.305527
NR4A1	275.1606041	340.0188558	1.23571053	0.305341
COMMD6	221.2291257	273.3484919	1.235589984	0.3052
PHF2	1032.402586	1275.626296	1.235589984	0.3052
SEC61A1	2376.286977	2935.718356	1.235422483	0.305004
ENOSF1	1040.107083	1284.515678	1.234984069	0.304492
DIP2A	1636.655273	2021.223198	1.234971855	0.304478
PPP6C	823.2805274	1016.723049	1.234965501	0.304471
BPHL	266.3554647	328.9071285	1.234842802	0.304327
NEU3	266.3554647	328.9071285	1.234842802	0.304327
CDH5	158.4925079	195.5664007	1.233915743	0.303244
CYP3A43	19.81156349	24.44580009	1.233915743	0.303244
CDK5R1	19.81156349	24.44580009	1.233915743	0.303244
SLC26A3	9.905781747	12.22290005	1.233915743	0.303244
FGF12	9.905781747	12.22290005	1.233915743	0.303244
SLC25A48	9.905781747	12.22290005	1.233915743	0.303244
MMP3	9.905781747	12.22290005	1.233915743	0.303244
TMEM217	9.905781747	12.22290005	1.233915743	0.303244
CXCR2	9.905781747	12.22290005	1.233915743	0.303244
ANGPTL5	9.905781747	12.22290005	1.233915743	0.303244
STIMATE	9.905781747	12.22290005	1.233915743	0.303244
CROCC2	9.905781747	12.22290005	1.233915743	0.303244
ENSG000002	9.905781747	12.22290005	1.233915743	0.303244
TIMM10	128.7751627	158.8977006	1.233915743	0.303244
ZNF518B	1332.877966	1644.535643	1.233823114	0.303136
HADHA	2726.291265	3363.519858	1.233734598	0.303032
NPC1	696.7066495	858.9365214	1.232852481	0.302
MYC	463.3704573	571.142784	1.232583509	0.301685
MAP3K8	234.4368347	288.9049102	1.232335825	0.301395
EZH1	1197.498949	1475.637387	1.232266123	0.301314
TMEM214	708.8137161	873.3817669	1.232173908	0.301206
THADA	2292.638153	2824.601083	1.232030916	0.301038
PTS	129.8758051	160.0088733	1.232014486	0.301019
SAP30	64.93790256	80.00443666	1.232014486	0.301019
SLIT3	304.8779493	375.5763832	1.231890939	0.300875
RNF181	230.034265	283.3490465	1.231768869	0.300732
WWP2	1065.421859	1312.294996	1.231713978	0.300667
HPS4	711.0150009	875.6041124	1.231484724	0.300399
KIAA1549	626.2655349	771.1538756	1.231352889	0.300244
ERF	331.2933673	407.8003924	1.23093437	0.299754
NDUFA4	381.9229185	470.0260654	1.230683059	0.299459
RAD21	2720.788053	3347.96344	1.230512401	0.299259
RRAGC-DT	35.22055732	43.33573653	1.230410301	0.299139
EEF1A1P13	35.22055732	43.33573653	1.230410301	0.299139
ENSG000002	35.22055732	43.33573653	1.230410301	0.299139
VPS13A	4630.402645	5696.982594	1.230342808	0.29906
EIF4G3	4998.017212	6148.118723	1.230111555	0.298789
CACYBP	408.3383364	502.2500746	1.229985112	0.298641
TSPAN31	156.2912231	192.2328825	1.229965949	0.298618
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
PLD5P1	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
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ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
ENSG000002	9.128091867	1.111172731	8.2148271	3.03823
LINC00869	9.128091867	1.111172731	8.2148271	3.03823
SNHG10	45.64045934	5.555863657	8.2148271	3.03823
RHOQP1	45.64045934	5.555863657	8.2148271	3.03823
GGNBP2	45.64045934	5.555863657	8.2148271	3.03823
LLPH	27.3842756	3.333518194	8.2148271	3.03823
RHEBP2	27.3842756	3.333518194	8.2148271	3.03823
RNASEH1-D	27.3842756	3.333518194	8.2148271	3.03823
ENSG000002	27.3842756	3.333518194	8.2148271	3.03823
VIL1	264.7146641	32.22400921	8.2148271	3.03823
RANBP1	382.5500319	46.66925472	8.197046089	3.035104
DAPL1	154.3477352	18.88993643	8.170897543	3.030495
SLITRK4	280.4813683	34.44635467	8.142555894	3.025482
SNHG3	72.1949084	8.889381852	8.121476792	3.021742
USP12	755.9719719	93.33850944	8.099250528	3.017788
SNORA23	44.8106328	5.555863657	8.065466607	3.011758
SUMO2	492.0871343	61.11450023	8.051888381	3.009327
C14orf132	196.6688884	24.44580009	8.045099267	3.00811
GPR153	268.0339703	33.33518194	8.040573192	3.007298
CENPM	151.8582556	18.88993643	8.039108873	3.007036
ZFP91	410.764134	51.11394565	8.036243902	3.006521
GRM8	473.001124	58.89215477	8.031649137	3.005696
PSMA3-AS1	178.4127047	22.22345463	8.028126484	3.005063
ENSG000002	35.68254093	4.444690926	8.028126484	3.005063
BCHE	169.2846128	21.1122819	8.018300136	3.003296
KIF23	943.5127684	117.7843095	8.010513218	3.001895
CPLX1	62.23699	7.77820912	8.001454968	3.000262
ADIPOR2	115.3458881	14.44524551	7.985041727	2.9973
SLIT2	4958.213537	621.1455569	7.982369804	2.996817
CBX3	469.6818179	58.89215477	7.975286687	2.995536
HNRNPH1	159.3266944	20.00110917	7.965892945	2.993836
SDAD1P1	26.55444907	3.333518194	7.965892945	2.993836
CRLF1	1158.437841	145.5636278	7.958291903	2.992459
DIO2	282.9708479	35.55752741	7.958113753	2.992427
ST8SIA4	335.2499195	42.22456379	7.93968935	2.989083
NCAN	114.5160616	14.44524551	7.927595383	2.986883
ACTL10	43.98080627	5.555863657	7.916106115	2.984791
MDC1	1370.873433	173.3429461	7.908446602	2.983394
FOXA2	105.3879697	13.33407278	7.903659407	2.982521
RN7SL3	628.1786858	80.00443666	7.851798125	2.973023
ATOH7	34.8527144	4.444690926	7.841425868	2.971116
LINC01106	17.4263572	2.222345463	7.841425868	2.971116
DNAJB6P7	17.4263572	2.222345463	7.841425868	2.971116
ENSG000002	17.4263572	2.222345463	7.841425868	2.971116
HMGN1P38	17.4263572	2.222345463	7.841425868	2.971116
ENSG000002	17.4263572	2.222345463	7.841425868	2.971116
ENSG000002	17.4263572	2.222345463	7.841425868	2.971116
ENSG000002	52.2790716	6.667036389	7.841425868	2.971116
F11R	130.2827657	16.66759097	7.816532453	2.966529
DNAJC12	95.43005134	12.22290005	7.807480302	2.964857
SELL	121.1546739	15.55641824	7.788082835	2.961268
CENPV	501.2152262	64.44801842	7.777046345	2.959222
SNRPD1	673.8191451	86.67147305	7.774405134	2.958732
LAYN	43.15097974	5.555863657	7.766745622	2.95731
FGD5-AS1	585.027706	75.55974574	7.742584366	2.952815
FAM178B	94.6002248	12.22290005	7.739589169	2.952257
RTBDN	146.0494699	18.88993643	7.731601976	2.950767
TBXT	154.3477352	20.00110917	7.716958791	2.948032
ENSG000002	154.3477352	20.00110917	7.716958791	2.948032
CCNB1IP1	25.72462253	3.333518194	7.716958791	2.948032
RETNLB	25.72462253	3.333518194	7.716958791	2.948032
RAPGEF5	719.4596044	93.33850944	7.708068285	2.946369
TET1	5002.194343	650.0360479	7.695256839	2.943969
ARPIN	85.47213294	11.11172731	7.692065375	2.943371
HMGB2	2054.650497	267.7926283	7.672543153	2.939705
ADCY1	459.7238995	60.0033275	7.66164009	2.937653
SLC44A5	433.999277	56.6698093	7.658386049	2.93704
ZNF681	306.2059908	40.00221833	7.654725252	2.936351
RTCA-AS1	34.02288787	4.444690926	7.654725252	2.936351
TUBB2B	1300.338178	170.0094279	7.648623925	2.9352
CYP26B1	118.6651943	15.55641824	7.628053736	2.931315
FADS2	1355.936556	177.787637	7.62672016	2.931063
KCNK12	84.6423064	11.11172731	7.617385129	2.929296
POC1A	211.605766	27.77931829	7.617385129	2.929296
CBX5	3534.231206	465.5813745	7.591006426	2.924291
C16orf87	539.3872467	71.11505481	7.584712521	2.923094
H4C3	1858.811435	245.5691736	7.569400536	2.920179
MACROD2	159.3266944	21.1122819	7.546635422	2.915834
CCDC88A	4845.357128	644.4801842	7.518240664	2.910395
GNAZ	399.1465625	53.33629111	7.483583021	2.903729
H1-5	58.08785734	7.77820912	7.468024636	2.900727
DOK2	33.19306133	4.444690926	7.468024636	2.900727
MRAP2	16.59653067	2.222345463	7.468024636	2.900727
KRTAP10-3	16.59653067	2.222345463	7.468024636	2.900727
SLC25A5-AS	16.59653067	2.222345463	7.468024636	2.900727
PPP1CB-DT	16.59653067	2.222345463	7.468024636	2.900727
RPL21P60	16.59653067	2.222345463	7.468024636	2.900727
STAG1-DT	16.59653067	2.222345463	7.468024636	2.900727
ENSG000000	16.59653067	2.222345463	7.468024636	2.900727
ENSG000002	16.59653067	2.222345463	7.468024636	2.900727
ENSG000002	16.59653067	2.222345463	7.468024636	2.900727
FGL1	8.298265334	1.111172731	7.468024636	2.900727
TNFSF18	8.298265334	1.111172731	7.468024636	2.900727
C1QL2	8.298265334	1.111172731	7.468024636	2.900727
EAF1	189.3104956	429.8501443	2.270609154	1.183079
MDH1	320.2869431	726.9280432	2.269614977	1.182448
RTN2	116.6680961	264.7146641	2.268955035	1.182028
PLPP2	305.9785917	693.7349819	2.267266406	1.180954
SPIDR	1849.079259	4191.45382	2.266778884	1.180644
ABCE1	599.8501169	1359.255862	2.265992493	1.180143
SLIRP	523.9057902	1186.651943	2.26501017	1.179518
CKB	1349.387602	3056.251122	2.26491715	1.179458
HACE1	290.5695979	658.052441	2.264698185	1.179319
ACP1	417.1434758	944.342595	2.263831631	1.178767
CTDSPL2	505.1948691	1143.500963	2.26348491	1.178546
GALNS	181.6059987	410.764134	2.261842323	1.177498
TMEM236	16.50963624	37.342194	2.261842323	1.177498
TMEM167A	160.6937928	363.4640216	2.261842323	1.177498
R3HDM4	117.7687385	266.3743172	2.261842323	1.177498
ZNF696	79.24625397	179.2425312	2.261842323	1.177498
EIF5A2	74.84368431	169.2846128	2.261842323	1.177498
GJA4	27.51606041	62.23699	2.261842323	1.177498
YWHAEP1	25.31477557	57.2580308	2.261842323	1.177498
ENSG000002	22.01284833	49.789592	2.261842323	1.177498
SLC25A25-A	19.81156349	44.8106328	2.261842323	1.177498
CLDN5	15.40899383	34.8527144	2.261842323	1.177498
RPS27P3	11.00642416	24.894796	2.261842323	1.177498
GIPC3	9.905781747	22.4053164	2.261842323	1.177498
RPS10P3	9.905781747	22.4053164	2.261842323	1.177498
PCAT6	9.905781747	22.4053164	2.261842323	1.177498
ENSG000002	9.905781747	22.4053164	2.261842323	1.177498
LINC00863	7.704496914	17.4263572	2.261842323	1.177498
FSCB	5.503212081	12.447398	2.261842323	1.177498
MTCYBP32	5.503212081	12.447398	2.261842323	1.177498
ENSG000002	5.503212081	12.447398	2.261842323	1.177498
ENSG000002	5.503212081	12.447398	2.261842323	1.177498
ENSG000002	5.503212081	12.447398	2.261842323	1.177498
KCNH1	36.32119974	82.1528268	2.261842323	1.177498
LINC00654	12.10706658	27.3842756	2.261842323	1.177498
LINC00339	12.10706658	27.3842756	2.261842323	1.177498
GRPEL2	70.44111464	159.3266944	2.261842323	1.177498
TIMM8B	35.22055732	79.6633472	2.261842323	1.177498
LNP1	28.61670282	64.7264696	2.261842323	1.177498
ENSG000002	28.61670282	64.7264696	2.261842323	1.177498
LRRC61	17.61027866	39.8316736	2.261842323	1.177498
ENSG000002	17.61027866	39.8316736	2.261842323	1.177498
SDHAF1	14.30835141	32.3632348	2.261842323	1.177498
TMEM132E	8.80513933	19.9158368	2.261842323	1.177498
IL1RAPL2	8.80513933	19.9158368	2.261842323	1.177498
ENSG000002	8.80513933	19.9158368	2.261842323	1.177498
PSMC1P1	8.80513933	19.9158368	2.261842323	1.177498
RSPH6A	6.603854498	14.9368776	2.261842323	1.177498
ZNF876P	6.603854498	14.9368776	2.261842323	1.177498
SNHG26	6.603854498	14.9368776	2.261842323	1.177498
ADAM21P1	6.603854498	14.9368776	2.261842323	1.177498
ENSG000002	6.603854498	14.9368776	2.261842323	1.177498
PROC	4.402569665	9.9579184	2.261842323	1.177498
DMRT1	4.402569665	9.9579184	2.261842323	1.177498
RAB4B	4.402569665	9.9579184	2.261842323	1.177498
RPL21P72	4.402569665	9.9579184	2.261842323	1.177498
SLC9A7P1	4.402569665	9.9579184	2.261842323	1.177498
RPS4XP11	4.402569665	9.9579184	2.261842323	1.177498
RNF5P1	4.402569665	9.9579184	2.261842323	1.177498
ENSG000002	4.402569665	9.9579184	2.261842323	1.177498
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RTEL1-TNFR	3.301927249	7.4684388	2.261842323	1.177498
SLC5A2	3.301927249	7.4684388	2.261842323	1.177498
ABCC12	3.301927249	7.4684388	2.261842323	1.177498
NXPH2	3.301927249	7.4684388	2.261842323	1.177498
NAPEPLD	3.301927249	7.4684388	2.261842323	1.177498
OR2T8	3.301927249	7.4684388	2.261842323	1.177498
LINC03040	3.301927249	7.4684388	2.261842323	1.177498
GYPE	3.301927249	7.4684388	2.261842323	1.177498
UBE2SP2	3.301927249	7.4684388	2.261842323	1.177498
LINC02611	3.301927249	7.4684388	2.261842323	1.177498
MCIDAS	3.301927249	7.4684388	2.261842323	1.177498
RPL9P7	3.301927249	7.4684388	2.261842323	1.177498
DBTP1	3.301927249	7.4684388	2.261842323	1.177498
RNPS1P1	3.301927249	7.4684388	2.261842323	1.177498
SETP12	3.301927249	7.4684388	2.261842323	1.177498
SF3A3P2	3.301927249	7.4684388	2.261842323	1.177498
ENSG000002	3.301927249	7.4684388	2.261842323	1.177498
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ENSG000002	3.301927249	7.4684388	2.261842323	1.177498
ZNF426-DT	3.301927249	7.4684388	2.261842323	1.177498
ENSG000002	3.301927249	7.4684388	2.261842323	1.177498
ENSG000002	3.301927249	7.4684388	2.261842323	1.177498
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QPRT	2.201284833	4.9789592	2.261842323	1.177498
SULT1E1	2.201284833	4.9789592	2.261842323	1.177498
SLC4A9	2.201284833	4.9789592	2.261842323	1.177498
TCF15	2.201284833	4.9789592	2.261842323	1.177498
NPAS1	2.201284833	4.9789592	2.261842323	1.177498
CLTRN	2.201284833	4.9789592	2.261842323	1.177498
ASB16	2.201284833	4.9789592	2.261842323	1.177498
CDC20B	2.201284833	4.9789592	2.261842323	1.177498
FBXL21P	2.201284833	4.9789592	2.261842323	1.177498
CYTL1	2.201284833	4.9789592	2.261842323	1.177498
CATSPER1	2.201284833	4.9789592	2.261842323	1.177498
C8G	2.201284833	4.9789592	2.261842323	1.177498
OR2B11	2.201284833	4.9789592	2.261842323	1.177498

KMT5C	60.5353329	74.44857301	1.229836683	0.298467
SMAD2	935.5460539	1150.063777	1.229296807	0.297833
SFXN2	177.203429	217.7898554	1.229038606	0.29753
NXN	350.0042884	430.0238471	1.228624509	0.297044
UFC1	431.4518272	530.0293929	1.22847873	0.296873
DOLK	629.5674621	773.3762211	1.2284247	0.296809
LRWD1	122.1713082	150.0083187	1.227852275	0.296137
ALDH3B1	40.7237694	50.00277291	1.227852275	0.296137
CCDC150	40.7237694	50.00277291	1.227852275	0.296137
ZC3H11B	81.44753881	100.0055458	1.227852275	0.296137
STPG1	178.3040714	218.9010281	1.227683845	0.295939
COP1	760.5439097	933.3850944	1.227259968	0.295441
FOXO1	71.54175706	87.78264578	1.227012718	0.29515
MMUT	1278.946488	1568.975897	1.226772122	0.294867
EPS8	1018.094235	1248.95815	1.226760851	0.294854
RAB35	204.7194894	251.1250373	1.226678701	0.294757
GCAT	102.3597447	125.5625187	1.226678701	0.294757
ZNF26	471.0749542	577.8098203	1.226577247	0.294638
TLE5	898.1242117	1101.172177	1.226080048	0.294053
ENSG000002	46.22698148	56.6698093	1.225903303	0.293845
GGH	30.81798766	37.77987287	1.225903303	0.293845
PXN-AS1	30.81798766	37.77987287	1.225903303	0.293845
CROCC	15.40899383	18.88993643	1.225903303	0.293845
CACNA1C	15.40899383	18.88993643	1.225903303	0.293845
CLDND2	15.40899383	18.88993643	1.225903303	0.293845
AGO1	982.8736778	1204.511241	1.225499541	0.29337
NUP88	761.6445521	933.3850944	1.225486471	0.293355
COX7A2	350.0042884	428.9126743	1.225449769	0.293311
C10orf88	113.3661689	138.8965914	1.225203187	0.293021
WDR31	113.3661689	138.8965914	1.225203187	0.293021
SPINDOC	155.1905807	190.0105371	1.224369006	0.292038
SARM1	206.9207743	253.3473828	1.224369006	0.292038
ZNF646	668.0899467	817.8231303	1.224121294	0.291747
PCBD1	373.1177791	456.6919926	1.223988827	0.29159
ITSN1	1529.892959	1872.326052	1.223828139	0.291401
DDX41	669.1905891	818.9343031	1.22376841	0.291331
COPS7B	181.6059987	222.2345463	1.223718092	0.291271
HAX1	363.2119974	444.4690926	1.223718092	0.291271
HACE1	290.5695979	355.5752741	1.223718092	0.291271
PDZD8	2595.314818	3175.731666	1.223640248	0.291179
PDCD11	633.9700318	775.5985665	1.223399416	0.290895
BRD3	1794.047139	2194.566145	1.223248875	0.290718
HSPA7	114.4668113	140.0077642	1.223129766	0.290577
POGLUT1	171.7002169	210.0116462	1.223129766	0.290577
LAMTOR5	427.0492575	522.2511838	1.222929614	0.290341
OCEL1	140.8822293	172.2317734	1.222523055	0.289862
RAB30	146.3854414	178.8988098	1.222107937	0.289372
ALDH8A1	41.82441182	51.11394565	1.222107937	0.289372
CTBP2P8	20.91220591	25.55697282	1.222107937	0.289372
ISCU	507.3961539	620.0343841	1.221992676	0.289236
TLR4	381.9229185	466.6925472	1.22195481	0.289191
RELL1	309.280519	377.7987287	1.221540658	0.288702
RPN1	2932.111397	3581.309713	1.22140984	0.288547
CPE	2224.398323	2716.817328	1.221371775	0.288502
CILK1	1100.642416	1343.407832	1.220567018	0.287552
DNAAF2	253.1477557	308.9060193	1.220259759	0.287188
FITM2	126.5738779	154.4530097	1.220259759	0.287188
DPYSL2	1140.265543	1391.18826	1.220056388	0.286948
DGAT2	52.83083598	64.44801842	1.219893973	0.286756
CENPV	52.83083598	64.44801842	1.219893973	0.286756
EPS8L2	396.2312699	483.3601382	1.219893973	0.286756
IHH	26.41541799	32.22400921	1.219893973	0.286756
UBB	3626.616762	4423.578644	1.219753543	0.28659
JMJD6	333.4946521	406.6892197	1.219477485	0.286263
VHL	895.9229269	1092.282795	1.219170491	0.2859
SNX27	652.6809529	795.5996757	1.2189718	0.285665
POP5	122.1713082	148.897146	1.218757073	0.285411
LDAF1	95.75589022	116.6731368	1.218443445	0.285039
HERPUD1	1304.261263	1588.977006	1.218296557	0.284865
RTTN	367.614567	447.8026108	1.218130757	0.284669
TPST2	208.0214167	253.3473828	1.217890863	0.284385
AGO4	534.9122143	651.1472206	1.217297349	0.283682
NUTF2	117.7687385	143.3412824	1.217142037	0.283498
EIF4G1	6697.409103	8149.340812	1.216790058	0.28308
SETD1A	1067.623144	1298.960923	1.216684867	0.282956
MPV17	177.203429	215.5675099	1.216497396	0.282733
PINK1-AS	139.7815869	170.0094279	1.216250521	0.28244
P2RX4	312.5824462	380.0210742	1.215746689	0.281843
ZFYVE1	340.0985066	413.3562561	1.215401562	0.281433
ZNF14	254.2483982	308.9060193	1.214977249	0.280929
COPS5	547.0192809	664.4812934	1.214731028	0.280637
GTF3C3	622.9636076	756.7086301	1.21469155	0.28059
SLC35E3	281.7644586	342.2412013	1.21463581	0.280524
HABP4	216.826556	263.3479374	1.214555736	0.280429
CCDC102A	75.94432672	92.22733671	1.214407194	0.280252
COL2A1	553.6231354	672.2595025	1.214290841	0.280114
GYS1	830.9850243	1008.94484	1.214155262	0.279953
UBE2V1	86.95075089	105.5614095	1.214036778	0.279812
UBR3	2940.916536	3567.975641	1.213218939	0.27884
ATP7B	403.9357668	490.0271746	1.21313143	0.278736
C2CD3	2387.293401	2894.604965	1.212504908	0.277991
RAB33B	224.5310529	272.2373192	1.212470683	0.27795
POLR2B	1948.137077	2361.242054	1.212051289	0.277451
IFT57	856.2997999	1037.835331	1.211999969	0.27739
GOLGA1	565.730202	685.5935753	1.211873739	0.277239
HINT3	110.0642416	133.3407278	1.211480911	0.276772
CNIH3	27.51606041	33.33518194	1.211480911	0.276772
GADL1	22.01284833	26.66814555	1.211480911	0.276772
UPK3BL3P	22.01284833	26.66814555	1.211480911	0.276772
CETP	11.00642416	13.33407278	1.211480911	0.276772
PRDM13	11.00642416	13.33407278	1.211480911	0.276772
SCGB3A2	8.298265334	1.111172731	7.468024636	2.900727
OR1N2	8.298265334	1.111172731	7.468024636	2.900727
TLR10	8.298265334	1.111172731	7.468024636	2.900727
NAP1L4P1	8.298265334	1.111172731	7.468024636	2.900727
CAPZA3	8.298265334	1.111172731	7.468024636	2.900727
WDFY3-AS2	8.298265334	1.111172731	7.468024636	2.900727
ADGRA1	8.298265334	1.111172731	7.468024636	2.900727
LDLRAD1	8.298265334	1.111172731	7.468024636	2.900727
AGAP6	8.298265334	1.111172731	7.468024636	2.900727
KRTAP10-2	8.298265334	1.111172731	7.468024636	2.900727
IGHG4	8.298265334	1.111172731	7.468024636	2.900727
ST7-OT4	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
LMCD1-AS1	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
TIPARP-AS1	8.298265334	1.111172731	7.468024636	2.900727
UGDH-AS1	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
TEX101P1	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
FAM106A	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
CKAP2-DT	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
ENSG000002	8.298265334	1.111172731	7.468024636	2.900727
SUGT1P3.1	8.298265334	1.111172731	7.468024636	2.900727
CA5BP1.1	8.298265334	1.111172731	7.468024636	2.900727
INHBA	157.6670413	21.1122819	7.468024636	2.900727
EIF4EBP1	610.7523286	82.22678213	7.427656936	2.892907
MPHOSPH9	3185.704062	428.9126743	7.427395487	2.892856
SULT1C2	131.9424188	17.7787637	7.421349482	2.891682
RIPK2-DT	189.2004496	25.55697282	7.403085292	2.888127
S100A9	353.5061032	47.78042745	7.39855464	2.887243
PLOD2	2753.364438	372.242865	7.396688282	2.886879
FSD1L	615.7312878	83.33795486	7.388365707	2.885255
ACP5	221.5636844	30.00166375	7.385046585	2.884607
ATP5MK	450.5958076	61.11450023	7.37297705	2.882247
LAMB4	114.5160616	15.55641824	7.36133857	2.879968
TONSL	613.2418082	83.33795486	7.358493608	2.87941
H2BC12	3477.803001	473.3595836	7.347063674	2.877168
DISC1	146.8792964	20.00110917	7.343557559	2.876479
RAB13	40.66150013	5.555863657	7.318664144	2.87158
ZNF529-AS1	40.66150013	5.555863657	7.318664144	2.87158
JPX	284.6305009	38.8910456	7.318664144	2.87158
ENSG000002	186.71097	25.55697282	7.305676275	2.869018
UBA6-DT	146.0494699	20.00110917	7.302068533	2.868305
NCKAP5	819.0387884	112.2284459	7.297960709	2.867493
ZNF8	137.7512045	18.88993643	7.29230641	2.866375
ENSG000002	64.7264696	8.889381852	7.28132402	2.864201
GTF3C2-AS2	32.3632348	4.444690926	7.28132402	2.864201
RNF187	97.0897044	13.33407278	7.28132402	2.864201
FADS1	1695.335608	233.3462736	7.265321111	2.861027
ZNF107	370.9324604	51.11394565	7.256971766	2.859368
OSBPL3	1077.944667	148.897146	7.239525375	2.855895
PROM1	233.1812559	32.22400921	7.236258355	2.855244
DANCR	72.1949084	10.00055458	7.219090482	2.851817
NOP10	48.12993894	6.667036389	7.219090482	2.851817
TMEM121	24.06496947	3.333518194	7.219090482	2.851817
TXNP6	24.06496947	3.333518194	7.219090482	2.851817
CPB2-AS1	24.06496947	3.333518194	7.219090482	2.851817
MCM2	2417.284692	335.5741649	7.203429062	2.848684
HMGN3	1173.374718	163.3423915	7.18352846	2.844693
MGAT5B	223.2233375	31.11283648	7.174637954	2.842906
MSH6	9928.874472	1386.743569	7.15984894	2.839929
KCNA3	151.0284291	21.1122819	7.153581494	2.838666
NCAPD3	2025.606568	283.3490465	7.148803191	2.837702
APEX1	111.1967555	15.55641824	7.147966438	2.837533
NETO2	2813.941775	394.4663197	7.133541279	2.834618
NEURL1	475.4906036	66.67036389	7.131963528	2.834299
RNF138	419.8922259	58.89215477	7.129849936	2.833872
RALA	277.1620621	38.8910456	7.126629224	2.83322
HNRNPAB	3145.042561	442.2467471	7.111510897	2.830156
CFAP221	181.7320108	25.55697282	7.110858241	2.830024
KHDRBS2	292.0989397	41.11339106	7.10471533	2.828777
POLR2A	323.632348	45.55808199	7.103730752	2.828577
CTHRC1	449.7659811	63.33684569	7.101174303	2.828058
ENSG000002	31.53340827	4.444690926	7.094623405	2.826726
FAM89B	15.76670413	2.222345463	7.094623405	2.826726
OR56A1	15.76670413	2.222345463	7.094623405	2.826726
AARD	15.76670413	2.222345463	7.094623405	2.826726
LINC02315	15.76670413	2.222345463	7.094623405	2.826726
ENSG000002	15.76670413	2.222345463	7.094623405	2.826726
AQP1	268.0339703	37.77987287	7.094623405	2.826726
PLCZ1	78.83352067	11.11172731	7.094623405	2.826726
SPATA33	94.6002248	13.33407278	7.094623405	2.826726
ASRGL1	1031.474381	145.5636278	7.086072231	2.824986
CHMP3	180.9021843	25.55697282	7.078388568	2.823421
RECQL	2206.508752	312.2395375	7.066717974	2.82104
DEK	6766.405553	961.1644127	7.039800334	2.815535
THUMPD3-/	171.7740924	24.44580009	7.026732272	2.812854
ARPP19	864.6792478	123.3401732	7.010524028	2.809522
DNAJC28	2.201284833	4.9789592	2.261842323	1.177498
OR56A4	2.201284833	4.9789592	2.261842323	1.177498
SBK2	2.201284833	4.9789592	2.261842323	1.177498
NYX	2.201284833	4.9789592	2.261842323	1.177498
LINC02934	2.201284833	4.9789592	2.261842323	1.177498
ACOT6	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
GNRHR2	2.201284833	4.9789592	2.261842323	1.177498
SNORA3B	2.201284833	4.9789592	2.261842323	1.177498
RPL23AP3	2.201284833	4.9789592	2.261842323	1.177498
CALM2P3	2.201284833	4.9789592	2.261842323	1.177498
LINC00598	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
LEMD1-DT	2.201284833	4.9789592	2.261842323	1.177498
KIRREL1-IT1	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
RPL23AP74	2.201284833	4.9789592	2.261842323	1.177498
FBXO36-IT1	2.201284833	4.9789592	2.261842323	1.177498
HOXD-AS2	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
ST3GAL6-AS	2.201284833	4.9789592	2.261842323	1.177498
RN7SL328P	2.201284833	4.9789592	2.261842323	1.177498
RPL29P14	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
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BRPF3-AS1	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
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TIRAP-AS1	2.201284833	4.9789592	2.261842323	1.177498
MYL6B-AS1	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
ITPRID2-DT	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
ARIH2P1	2.201284833	4.9789592	2.261842323	1.177498
MIR3619	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
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NHIP	2.201284833	4.9789592	2.261842323	1.177498
ENSG000002	2.201284833	4.9789592	2.261842323	1.177498
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NOX1	1.100642416	2.4894796	2.261842323	1.177498
ZNF285CP	1.100642416	2.4894796	2.261842323	1.177498
RDH8	1.100642416	2.4894796	2.261842323	1.177498
NCR2	1.100642416	2.4894796	2.261842323	1.177498
HNF4A	1.100642416	2.4894796	2.261842323	1.177498
OXT	1.100642416	2.4894796	2.261842323	1.177498
EPPIN	1.100642416	2.4894796	2.261842323	1.177498
RS1	1.100642416	2.4894796	2.261842323	1.177498
LHB	1.100642416	2.4894796	2.261842323	1.177498
CCR6	1.100642416	2.4894796	2.261842323	1.177498
RBP2	1.100642416	2.4894796	2.261842323	1.177498
HOXB1	1.100642416	2.4894796	2.261842323	1.177498
SEC16B	1.100642416	2.4894796	2.261842323	1.177498
SPART-AS1	1.100642416	2.4894796	2.261842323	1.177498
CD70	1.100642416	2.4894796	2.261842323	1.177498
CST8	1.100642416	2.4894796	2.261842323	1.177498
HNRNPR	1.100642416	2.4894796	2.261842323	1.177498
SHBG	1.100642416	2.4894796	2.261842323	1.177498
GNG5B	1.100642416	2.4894796	2.261842323	1.177498
RAB33A	1.100642416	2.4894796	2.261842323	1.177498
UGT2B28	1.100642416	2.4894796	2.261842323	1.177498
OR1L4	1.100642416	2.4894796	2.261842323	1.177498
TM4SF5	1.100642416	2.4894796	2.261842323	1.177498
AWAT2	1.100642416	2.4894796	2.261842323	1.177498
GPHA2	1.100642416	2.4894796	2.261842323	1.177498
IVL	1.100642416	2.4894796	2.261842323	1.177498
RHO	1.100642416	2.4894796	2.261842323	1.177498
OR1K1	1.100642416	2.4894796	2.261842323	1.177498
CDH16	1.100642416	2.4894796	2.261842323	1.177498
MS4A5	1.100642416	2.4894796	2.261842323	1.177498
OR51I1	1.100642416	2.4894796	2.261842323	1.177498
MTNR1A	1.100642416	2.4894796	2.261842323	1.177498
BRD7P3	1.100642416	2.4894796	2.261842323	1.177498
NR0B1	1.100642416	2.4894796	2.261842323	1.177498
OR5AU1	1.100642416	2.4894796	2.261842323	1.177498
GSX1	1.100642416	2.4894796	2.261842323	1.177498
SOX7	1.100642416	2.4894796	2.261842323	1.177498
PTCRA	1.100642416	2.4894796	2.261842323	1.177498

PPP1R36	11.00642416	13.33407278	1.211480911	0.276772
UFSP1	11.00642416	13.33407278	1.211480911	0.276772
KCNIP1	11.00642416	13.33407278	1.211480911	0.276772
SLITRK2	11.00642416	13.33407278	1.211480911	0.276772
OR2AK2	11.00642416	13.33407278	1.211480911	0.276772
TEX22	11.00642416	13.33407278	1.211480911	0.276772
ENSG000002	11.00642416	13.33407278	1.211480911	0.276772
ENSG000002	11.00642416	13.33407278	1.211480911	0.276772
UBR7	5.503212081	6.667036389	1.211480911	0.276772
CCN5	5.503212081	6.667036389	1.211480911	0.276772
RPE65	5.503212081	6.667036389	1.211480911	0.276772
CCDC54	5.503212081	6.667036389	1.211480911	0.276772
CDRT15P1	5.503212081	6.667036389	1.211480911	0.276772
DRAXIN	5.503212081	6.667036389	1.211480911	0.276772
TBATA	5.503212081	6.667036389	1.211480911	0.276772
OR51B5	5.503212081	6.667036389	1.211480911	0.276772
CYP27C1	5.503212081	6.667036389	1.211480911	0.276772
NPSR1	5.503212081	6.667036389	1.211480911	0.276772
ENSG000001	5.503212081	6.667036389	1.211480911	0.276772
PSORS1C1	5.503212081	6.667036389	1.211480911	0.276772
OR5K2	5.503212081	6.667036389	1.211480911	0.276772
RPS6P25	5.503212081	6.667036389	1.211480911	0.276772
ENSG000002	5.503212081	6.667036389	1.211480911	0.276772
ENSG000002	5.503212081	6.667036389	1.211480911	0.276772
ENSG000002	5.503212081	6.667036389	1.211480911	0.276772
ENSG000002	5.503212081	6.667036389	1.211480911	0.276772
OR1S1	5.503212081	6.667036389	1.211480911	0.276772
C3orf36	5.503212081	6.667036389	1.211480911	0.276772
CYB5R1	335.695937	406.6892197	1.211480911	0.276772
KIAA1614	60.5353329	73.33740027	1.211480911	0.276772
STAC2	33.01927249	40.00221833	1.211480911	0.276772
CORO2B	16.50963624	20.00110917	1.211480911	0.276772
FAM209A	16.50963624	20.00110917	1.211480911	0.276772
CADM3-AS1	16.50963624	20.00110917	1.211480911	0.276772
C8orf58	16.50963624	20.00110917	1.211480911	0.276772
DBNDD2	16.50963624	20.00110917	1.211480911	0.276772
THAP12P7	16.50963624	20.00110917	1.211480911	0.276772
LIN37	16.50963624	20.00110917	1.211480911	0.276772
RASL10B	16.50963624	20.00110917	1.211480911	0.276772
GRAMD1B	49.52890873	60.0033275	1.211480911	0.276772
NTN4	624.06425	755.5974574	1.210768695	0.275923
NUDT14	248.7451861	301.1278102	1.210587489	0.275707
SPIDR	1849.079259	2237.901881	1.210279046	0.27534
EPS15L1	882.7152179	1067.836995	1.209718574	0.274671
MMP24OS	233.3361923	282.2378738	1.209576067	0.274501
THUMPD2	311.4818038	376.687556	1.209340486	0.27422
CCDC97	245.4432588	296.6831193	1.208764587	0.273533
TMEM67	865.1049392	1045.61354	1.20865515	0.273403
IDE	982.8736778	1187.84365	1.208541521	0.273267
PTCH1	1340.582463	1620.089842	1.208496968	0.273214
FYN	435.8543969	526.6958747	1.208421616	0.273124
RNPS1	827.6830971	1000.055458	1.208258888	0.27293
RBM23	660.3854498	797.8220212	1.208115687	0.272759
ANKRD28	1679.580327	2029.001408	1.208040708	0.272669
ALOX12-AS1	61.63597531	74.44857301	1.207875314	0.272472
DCAF17	280.6638162	338.9076831	1.207521824	0.272049
ARL4C	151.8886534	183.3435007	1.207091488	0.271535
ROBO3	50.62955115	61.11450023	1.207091488	0.271535
SPATA18	50.62955115	61.11450023	1.207091488	0.271535
TMED5	545.9186385	658.9254297	1.207002991	0.271429
ITPA	186.0085684	224.4568918	1.206701894	0.271069
CELF1	1009.289096	1217.845314	1.206636749	0.270991
TLN1	6976.972277	8416.022268	1.206257089	0.270537
ZNF700	356.6081429	430.0238471	1.205872204	0.270077
MIS18A	79.24625397	95.5608549	1.205872204	0.270077
FBXL7	340.0985066	410.0227379	1.205599936	0.269751
TEAD3	550.3212081	663.3701207	1.205423507	0.26954
KDM1A	1444.04285	1740.096497	1.205017218	0.269054
CLCF1	34.11991491	41.11339106	1.204967573	0.268994
ENSG000002	34.11991491	41.11339106	1.204967573	0.268994
NPLOC4	1349.387602	1625.645706	1.204728503	0.268708
NOVA1	159.5931504	192.2328825	1.204518378	0.268456
TBRG1	245.4432588	295.5719466	1.204237378	0.26812
ANKRD36C	908.0299934	1093.393968	1.204138603	0.268001
XPC	851.8972302	1025.612431	1.203915678	0.267734
LRRN2	234.4368347	282.2378738	1.203897306	0.267712
MED13	4462.004356	5371.408984	1.203810789	0.267609
FSTL4	28.61670282	34.44635467	1.203715008	0.267494
DZIP3	762.7451945	917.8286762	1.203322791	0.267024
PDP1	729.725922	877.8264578	1.202953645	0.266581
ZNHIT1	155.1905807	186.6770189	1.202888848	0.266503
MUC19	224.5310529	270.0149737	1.202572964	0.266124
DMAC2	265.2548223	318.9065739	1.202264943	0.265755
EPG5	1373.601736	1651.202679	1.202097112	0.265553
USP24	3671.743101	4413.578089	1.202038914	0.265484
GLTP	514.0000084	617.8120387	1.201968927	0.2654
DNM1L	1328.475396	1596.755215	1.201945643	0.265372
AQP11	92.45396297	111.1172731	1.201865984	0.265276
BIK	46.22698148	55.55863657	1.201865984	0.265276
DRICH1	46.22698148	55.55863657	1.201865984	0.265276
LINGO2	23.11349074	27.77931829	1.201865984	0.265276
FUNDC1	104.5610295	125.5625187	1.200853886	0.264061
PDXK	628.4668197	754.4862846	1.200518883	0.263658
RTL6	221.2291257	265.5702828	1.20043092	0.263552
TTLL1	192.6124229	231.1239281	1.199942998	0.262966
XRCC5	3370.167079	4043.55757	1.199809231	0.262805
OR51E1	847.4946605	1016.723049	1.199680773	0.262651
SUPT5H	1625.648849	1950.108144	1.199587565	0.262538
SEC22C	257.5503254	308.9060193	1.199400618	0.262314
ATN1	4323.323411	5183.620792	1.198989828	0.261819
PPP1R16B	163.4758271	23.33462736	7.005718349	2.808533
UQCRB	5017.961047	716.7064118	7.001417826	2.807647
PCBP3	396.6570829	56.6698093	6.999442698	2.80724
ENSG000002	85.47213294	12.22290005	6.992786705	2.805868
ZNF731P	69.7054288	10.00055458	6.970156327	2.801191
CKMT1B	69.7054288	10.00055458	6.970156327	2.801191
ENSG000002	46.47028587	6.667036389	6.970156327	2.801191
SYNE2	46955.73439	6770.375453	6.935469786	2.793994
STX2	215.7548987	31.11283648	6.934594305	2.793811
GRIA1	53.93872467	7.77820912	6.934594305	2.793811
NRXN3	2218.126324	320.0177467	6.931260366	2.793118
DCLRE1B	569.2610019	82.22678213	6.923060676	2.79141
MCOLN3	783.3562475	113.3396186	6.911583585	2.789016
NDNF	2287.831752	331.129474	6.909175813	2.788514
LRP4	4769.842914	691.149439	6.90131923	2.786872
UBE2S	1118.606167	162.2312188	6.895135075	2.785579
KNSTRN	268.0339703	38.8910456	6.891919879	2.784906
GDA	114.5160616	16.66759097	6.870582665	2.780432
SMIM15	663.8612267	96.67202764	6.867149091	2.779711
SARDH	303.7165112	44.44690926	6.833242542	2.77257
SNAI2	485.448522	71.11505481	6.826241269	2.771091
SNORD15B	219.9040313	32.22400921	6.824229409	2.770666
AFG3L1P	60.57733694	8.889381852	6.814572481	2.768623
ZNF675	590.0066652	86.67147305	6.807391688	2.767102
CCDC150	340.2288787	50.00277291	6.804200224	2.766426
ENSG000002	82.98265334	12.22290005	6.789113306	2.763223
IGFBP3	210.7759395	31.11283648	6.774565206	2.760128
SAMD13	285.4603275	42.22456379	6.760527566	2.757136
MIS18BP1	3624.682298	537.807602	6.739737936	2.752692
DLGAP1	404.1255217	60.0033275	6.735051848	2.751689
CIP2A	740.2052678	110.0061004	6.728765632	2.750342
KLHL2	1659.653067	246.6803464	6.727950123	2.750167
ENSG000002	74.684388	11.11172731	6.721222173	2.748724
KRT80	37.342194	5.555863657	6.721222173	2.748724
LINC01089	37.342194	5.555863657	6.721222173	2.748724
NOTCH2NL	37.342194	5.555863657	6.721222173	2.748724
ENSG000002	29.8737552	4.444690926	6.721222173	2.748724
PRSS53	14.9368776	2.222345463	6.721222173	2.748724
FOXS1	14.9368776	2.222345463	6.721222173	2.748724
ZBED5-AS1	14.9368776	2.222345463	6.721222173	2.748724
ENSG000002	14.9368776	2.222345463	6.721222173	2.748724
ACTL7B	7.4684388	1.111172731	6.721222173	2.748724
MEPE	7.4684388	1.111172731	6.721222173	2.748724
TENT5B	7.4684388	1.111172731	6.721222173	2.748724
NAPEPLD	7.4684388	1.111172731	6.721222173	2.748724
OXGR1	7.4684388	1.111172731	6.721222173	2.748724
SPNS1	7.4684388	1.111172731	6.721222173	2.748724
MIR7-3HG	7.4684388	1.111172731	6.721222173	2.748724
BEX5	7.4684388	1.111172731	6.721222173	2.748724
KRTAP10-6	7.4684388	1.111172731	6.721222173	2.748724
CERS1	7.4684388	1.111172731	6.721222173	2.748724
CDPF1P1	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ACVR2B-AS	7.4684388	1.111172731	6.721222173	2.748724
MTND5P2	7.4684388	1.111172731	6.721222173	2.748724
ZNF687-AS1	7.4684388	1.111172731	6.721222173	2.748724
PITRM1-AS	7.4684388	1.111172731	6.721222173	2.748724
EXO5-DT	7.4684388	1.111172731	6.721222173	2.748724
DBTP1	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
RUSF1-DT	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
COQ7-DT	7.4684388	1.111172731	6.721222173	2.748724
MIR5699	7.4684388	1.111172731	6.721222173	2.748724
C17orf113	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
LINC03073	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
LINC02960	7.4684388	1.111172731	6.721222173	2.748724
ZNF426-DT	7.4684388	1.111172731	6.721222173	2.748724
MRPL45	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
ENSG000002	7.4684388	1.111172731	6.721222173	2.748724
FOLR3	22.4053164	3.333518194	6.721222173	2.748724
PCAT6	22.4053164	3.333518194	6.721222173	2.748724
KHDC1-AS1	22.4053164	3.333518194	6.721222173	2.748724
HAS3	141.9003372	21.1122819	6.721222173	2.748724
FIGNL1	782.526421	116.6731368	6.706997364	2.745667
GFY	200.8180211	30.00166375	6.693562822	2.742774
ZC3H8	565.1118692	84.44912759	6.691743128	2.742382
KANTR	126.1336331	18.88993643	6.677292616	2.739263
CHASERR	126.1336331	18.88993643	6.677292616	2.739263
PAQR4	489.5976547	73.33740027	6.675961417	2.738976
FUT9	111.1967555	16.66759097	6.671435342	2.737997
ANKUB1	88.79143907	13.33407278	6.658988634	2.735303
DKK3	147.7091229	22.22345463	6.646541926	2.732604
C1orf127	221.5636844	33.33518194	6.646541926	2.732604
DGKH	1063.007789	160.0088733	6.643430249	2.731928
ENSG000002	140.2406841	21.1122819	6.642611387	2.731751
LRRC57	66.38612267	10.00055458	6.638244121	2.730802
TOPBP1	4888.508108	736.7075209	6.635615857	2.73023
LKAAEAR1	1.100642416	2.4894796	2.261842323	1.177498
SLC6A19	1.100642416	2.4894796	2.261842323	1.177498
ENSG000001	1.100642416	2.4894796	2.261842323	1.177498
TRIML2	1.100642416	2.4894796	2.261842323	1.177498
OR10A7	1.100642416	2.4894796	2.261842323	1.177498
MYL11	1.100642416	2.4894796	2.261842323	1.177498
TPT1P10	1.100642416	2.4894796	2.261842323	1.177498
GPR139	1.100642416	2.4894796	2.261842323	1.177498
OR52L1	1.100642416	2.4894796	2.261842323	1.177498
NOG	1.100642416	2.4894796	2.261842323	1.177498
SREBF2-AS1	1.100642416	2.4894796	2.261842323	1.177498
GDF3	1.100642416	2.4894796	2.261842323	1.177498
TEX33	1.100642416	2.4894796	2.261842323	1.177498
OR5D18	1.100642416	2.4894796	2.261842323	1.177498
CA5BP1	1.100642416	2.4894796	2.261842323	1.177498
SLC36A3	1.100642416	2.4894796	2.261842323	1.177498
FAM228A	1.100642416	2.4894796	2.261842323	1.177498
KRTAP12-1	1.100642416	2.4894796	2.261842323	1.177498
AMY1C	1.100642416	2.4894796	2.261842323	1.177498
C2orf66	1.100642416	2.4894796	2.261842323	1.177498
OSTN	1.100642416	2.4894796	2.261842323	1.177498
ZAR1L	1.100642416	2.4894796	2.261842323	1.177498
KRT77	1.100642416	2.4894796	2.261842323	1.177498
PFN3	1.100642416	2.4894796	2.261842323	1.177498
C14orf178	1.100642416	2.4894796	2.261842323	1.177498
RNU4-21P	1.100642416	2.4894796	2.261842323	1.177498
LINC00222	1.100642416	2.4894796	2.261842323	1.177498
CSNK2B	1.100642416	2.4894796	2.261842323	1.177498
RP9P	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
MIR532	1.100642416	2.4894796	2.261842323	1.177498
TRAV12-3	1.100642416	2.4894796	2.261842323	1.177498
ACTN4P1	1.100642416	2.4894796	2.261842323	1.177498
AKR1B1P3	1.100642416	2.4894796	2.261842323	1.177498
RPS10P2	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
NFYBP1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
UBE2QL1	1.100642416	2.4894796	2.261842323	1.177498
ZNF663P	1.100642416	2.4894796	2.261842323	1.177498
LINC01139	1.100642416	2.4894796	2.261842323	1.177498
RPL21P69	1.100642416	2.4894796	2.261842323	1.177498
RBMXP1	1.100642416	2.4894796	2.261842323	1.177498
RPL10P1	1.100642416	2.4894796	2.261842323	1.177498
NPM1P37	1.100642416	2.4894796	2.261842323	1.177498
Y_RNA.103	1.100642416	2.4894796	2.261842323	1.177498
RNU2-37P	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RNPC3-DT	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
TAF1A-AS1	1.100642416	2.4894796	2.261842323	1.177498
LRRC3B-AS1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
PTPRD-AS1	1.100642416	2.4894796	2.261842323	1.177498
BMS1P11	1.100642416	2.4894796	2.261842323	1.177498
CYP4F26P	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
DISC1-IT1	1.100642416	2.4894796	2.261842323	1.177498
KIF1C-AS1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RD3L	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
TLE1P1	1.100642416	2.4894796	2.261842323	1.177498
NUTM2E	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ACTR3-AS1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RPS7P4	1.100642416	2.4894796	2.261842323	1.177498
ST13P13	1.100642416	2.4894796	2.261842323	1.177498
LINC03036	1.100642416	2.4894796	2.261842323	1.177498
PGBD4P8	1.100642416	2.4894796	2.261842323	1.177498
LINC00858	1.100642416	2.4894796	2.261842323	1.177498
RPL29P17	1.100642416	2.4894796	2.261842323	1.177498
RPL7P46	1.100642416	2.4894796	2.261842323	1.177498
RPL4P6	1.100642416	2.4894796	2.261842323	1.177498
FAM41C	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
THAP12P1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
GCNT1P3	1.100642416	2.4894796	2.261842323	1.177498
LINC00689	1.100642416	2.4894796	2.261842323	1.177498
LUARIS	1.100642416	2.4894796	2.261842323	1.177498
SPATA31B1I	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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LINC01819	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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OR52I1	1.100642416	2.4894796	2.261842323	1.177498
HSD17B3-AS	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
STEAP1B-AS	1.100642416	2.4894796	2.261842323	1.177498
PLPPR5-AS1	1.100642416	2.4894796	2.261842323	1.177498
HOXB-AS3	1.100642416	2.4894796	2.261842323	1.177498
HMGB1P31	1.100642416	2.4894796	2.261842323	1.177498
AK4P3	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
HNRNPA1P3	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498

PFN1	1989.961489	2385.687854	1.198861319	0.261665
MSX2	70.44111464	84.44912759	1.198861319	0.261665
SLC25A45	70.44111464	84.44912759	1.198861319	0.261665
SULT1C4	35.22055732	42.22456379	1.198861319	0.261665
ADAT1	217.9271984	261.1255919	1.198223965	0.260898
SERINC2	672.4925164	805.6002303	1.197931889	0.260546
BICC1	1292.154197	1547.863615	1.197893888	0.2605
ATP6V0A1	1218.411155	1458.969796	1.197436342	0.259949
HECTD1	5422.865185	6492.58227	1.197260498	0.259737
WNT2	77.04496914	92.22733671	1.19705852	0.259494
LRP5	1828.167053	2187.899108	1.196771982	0.259148
RTL10	195.9143501	234.4574463	1.196734421	0.259103
DENND3	742.933631	888.9381852	1.196524357	0.25885
TTC23L	59.43469048	71.11505481	1.196524357	0.25885
DSN1	101.2591023	121.1178277	1.196117929	0.25836
TP53RK	172.8008594	206.678128	1.196048034	0.258275
TP53INP1	638.3726015	763.3756665	1.19581521	0.257994
MYT1L	41.82441182	50.00277291	1.195540373	0.257663
MLEC	1308.663833	1564.531206	1.195518029	0.257636
NDRG2	629.5674621	752.2639392	1.194890118	0.256878
MAP7D3	198.1156349	236.6797918	1.194654788	0.256594
PSMB2	738.5310613	882.2711488	1.194629712	0.256564
GJA1	596.5481896	712.2617209	1.193971809	0.255769
PDZD11	126.5738779	151.1194915	1.193923217	0.25571
PPP1R14B	96.85653263	115.5619641	1.19312514	0.254745
NCF1	24.21413316	28.89049102	1.19312514	0.254745
CALCR	12.10706658	14.44524551	1.19312514	0.254745
SPATA9	12.10706658	14.44524551	1.19312514	0.254745
TRIM74	12.10706658	14.44524551	1.19312514	0.254745
SPC24	12.10706658	14.44524551	1.19312514	0.254745
INSC	12.10706658	14.44524551	1.19312514	0.254745
ERICH6-AS1	12.10706658	14.44524551	1.19312514	0.254745
ENSG000002	12.10706658	14.44524551	1.19312514	0.254745
ENSG000002	12.10706658	14.44524551	1.19312514	0.254745
MYH2	36.32119974	43.33573653	1.19312514	0.254745
DDX19B	60.5353329	72.22622754	1.19312514	0.254745
ASB3	509.5974387	607.8114841	1.192728687	0.254266
PKNOX1	236.6381195	282.2378738	1.192698262	0.254229
FGGY	352.2055732	420.0232925	1.192551522	0.254052
LEPROT	291.6702403	347.7970649	1.192432469	0.253908
GPR108	845.2933757	1007.833667	1.192288614	0.253734
MID2	529.4090022	631.1461115	1.192171098	0.253591
SLC2A3	103.4603871	123.3401732	1.192148769	0.253564
GUK1	487.5845904	581.1433385	1.191882086	0.253242
MRPS27	335.695937	400.0221833	1.191620569	0.252925
HS3ST3B1	42.92505424	51.11394565	1.190771836	0.251897
PPCDC	42.92505424	51.11394565	1.190771836	0.251897
MYB	374.2184215	445.5802653	1.1906957	0.251805
MRPL51	418.2441182	497.8053837	1.19022686	0.251237
GAL3ST4	104.5610295	124.4513459	1.19022686	0.251237
LRRC40	227.8329802	271.1261465	1.190021507	0.250988
TBCCD1	277.3618889	330.0183012	1.189847324	0.250776
AFMID	253.1477557	301.1278102	1.189533794	0.250396
ZNF862	574.5353413	683.3712298	1.189432887	0.250274
RNF11	507.3961539	603.3667932	1.189143411	0.249923
ACADSB	655.9828801	780.0432575	1.189121364	0.249896
UBQLN1	1986.659561	2362.353227	1.189108226	0.24988
BRI3	322.488228	383.3545923	1.188739802	0.249433
MAP3K5	2682.265569	3187.954566	1.188530548	0.249179
SPOCK2	124.372593	147.7859733	1.188251926	0.248841
SMAGP	37.42184215	44.44690926	1.187726384	0.248203
CPB1	18.71092108	22.22345463	1.187726384	0.248203
ARIH2OS	18.71092108	22.22345463	1.187726384	0.248203
ENSG000002	18.71092108	22.22345463	1.187726384	0.248203
DCAF10	418.2441182	496.694211	1.187570104	0.248013
AGPAT3	343.4004339	407.8003924	1.187536043	0.247971
SSH3	570.1327716	676.7041934	1.186923866	0.247227
CPQ	1102.843701	1308.961478	1.186896635	0.247194
CCT6B	62.73661773	74.44857301	1.186684519	0.246936
HOPX	106.7623144	126.6736914	1.186501924	0.246714
PLEKHJ1	44.02569665	52.22511838	1.186241726	0.246398
ESAM	44.02569665	52.22511838	1.186241726	0.246398
WARS2	208.0214167	246.6803464	1.185841104	0.245911
RRAS2	309.280519	366.6870014	1.185612992	0.245633
ZNF180	309.280519	366.6870014	1.185612992	0.245633
ITGB5	1175.486101	1393.410605	1.185390967	0.245363
BACE2	1007.087811	1193.399514	1.185000454	0.244888
YIPF1	551.4218506	653.3695661	1.18488153	0.244743
PCSK6	330.1927249	391.1328015	1.184559113	0.24435
ECRG4	57.23340565	67.78153662	1.18430025	0.244035
MAP2K1	375.319064	444.4690926	1.184243315	0.243966
PTAR1	636.1713166	753.3751119	1.184233071	0.243953
TMEM216	89.15203572	105.5614095	1.184060562	0.243743
ZSWIM7	89.15203572	105.5614095	1.184060562	0.243743
GEMIN8	121.0706658	143.3412824	1.183947254	0.243605
KLHL15	408.3383364	483.3601382	1.18372461	0.243333
BCOR	3013.558936	3566.864468	1.183605346	0.243188
CAMTA1	293.8715252	347.7970649	1.183500391	0.24306
METTL22	230.034265	272.2373192	1.183464208	0.243016
SCARB1	861.803012	1018.945395	1.182341417	0.241647
RUSC2	651.5803104	770.0427029	1.181807815	0.240995
POLR2H	193.7130653	228.9015827	1.181652783	0.240806
YTHDF2	879.4132906	1038.946504	1.18140869	0.240508
SASH3	51.73019357	61.11450023	1.18140869	0.240508
POMP	336.7965794	397.7998379	1.181127904	0.240165
NT5C	58.33404806	68.89270935	1.181003404	0.240013
HTRA1	811.1734608	957.8308945	1.180796637	0.239761
SIX1	266.3554647	314.461883	1.180609841	0.239532
VPS13D	7679.182139	9066.058316	1.180602068	0.239523
TGFBRAP1	279.5631737	330.0183012	1.180478447	0.239372
USP39	638.3726015	753.3751119	1.180149509	0.23897
NRGN	58.91768387	8.889381852	6.627871865	2.728546
ENSG000002	58.91768387	8.889381852	6.627871865	2.728546
KCNJ12	287.1199805	43.33573653	6.625478267	2.728025
BORA	169.2846128	25.55697282	6.623813156	2.727662
PPIF	198.3285415	30.00166375	6.610584771	2.724778
CELSR3	1467.963138	222.2345463	6.605467791	2.723661
STK32A	87.96161254	13.33407278	6.596755095	2.721757
MICOS10	43.98080627	6.667036389	6.596755095	2.721757
SCGB2B2	43.98080627	6.667036389	6.596755095	2.721757
NPEPPSP1	43.98080627	6.667036389	6.596755095	2.721757
ENSG000002	80.49317374	12.22290005	6.585439907	2.71928
TIAM1	2294.470365	348.9082377	6.576142713	2.717242
DOK5	36.51236747	5.555863657	6.57186168	2.716302
H2AZ1	525.2801956	80.00443666	6.565638326	2.714935
RBM38	619.8804204	94.44968217	6.563075769	2.714372
LINC02870	102.0686636	15.55641824	6.561193073	2.713958
ANK1	633.9874715	96.67202764	6.558127382	2.713284
ORC1	262.2251845	40.00221833	6.55526607	2.712654
ZNF883	94.6002248	14.44524551	6.548883143	2.711249
L3MBTL4	618.2207674	94.44968217	6.545503946	2.710504
KIF26A	705.3525534	107.7837549	6.5441453	2.710205
HNRNPA3	4277.75578	654.4807388	6.536106452	2.708431
HYCC1	965.9180848	147.7859733	6.535925321	2.708391
CBX3P9	29.04392867	4.444690926	6.534521557	2.708082
ENSG000002	29.04392867	4.444690926	6.534521557	2.708082
PIGAP1	29.04392867	4.444690926	6.534521557	2.708082
ENSG000002	29.04392867	4.444690926	6.534521557	2.708082
RBSN	87.131786	13.33407278	6.534521557	2.708082
H2AZ2	1618.991567	247.7915191	6.533684334	2.707897
ABCC9	718.6297779	110.0061004	6.532635692	2.707665
CHRM4	253.9269192	38.8910456	6.529187254	2.706903
HELLPAR	224.8829905	34.44635467	6.528498956	2.706751
GINS3	79.6633472	12.22290005	6.517548774	2.704329
TNS2-AS1	209.9461129	32.22400921	6.5152077	2.703811
CHRNB2	201.6478476	31.11283648	6.481178524	2.696256
IGFN1	1424.812158	220.0122008	6.476059748	2.695116
LOXL2	992.4725339	153.3418369	6.472288018	2.694276
CHRNA5	625.6892062	96.67202764	6.472288018	2.694276
ASPHD1	64.7264696	10.00055458	6.472288018	2.694276
SYN1	86.30195947	13.33407278	6.472288018	2.694276
IPO5P1	43.15097974	6.667036389	6.472288018	2.694276
EYA4	21.57548987	3.333518194	6.472288018	2.694276
WASL-DT	21.57548987	3.333518194	6.472288018	2.694276
ENSG000002	21.57548987	3.333518194	6.472288018	2.694276
MT2A	3062.889735	473.3595836	6.470534961	2.693885
RAD51D	143.5599903	22.22345463	6.45984131	2.691499
MASTL	1039.772646	161.1200461	6.453403358	2.69006
ENSG000002	293.7585928	45.55808199	6.448001759	2.688852
C8orf88	171.7740924	26.66814555	6.441171249	2.687323
EME1	92.94057174	14.44524551	6.433990456	2.685714
KCNMB3	749.3333596	116.6731368	6.422501187	2.683135
STOX2	206.6268068	32.22400921	6.412200464	2.68082
SNORA73B	419.8922259	65.55919115	6.404780451	2.679149
DCK	853.0616763	133.3407278	6.397607772	2.677533
TMEM161B-	170.1144393	26.66814555	6.37893771	2.673316
COA1	276.3322356	43.33573653	6.376544113	2.672775
PSMG1	785.8457271	123.3401732	6.371368766	2.671603
ATP5PF	1726.039189	271.1261465	6.366184936	2.670429
ESPN	162.6460005	25.55697282	6.364055777	2.669946
NOCT	233.1812559	36.66870014	6.35913613	2.668831
ENTPD3	112.8564085	17.7787637	6.347820941	2.666261
ENSG000002	28.21410213	4.444690926	6.347820941	2.666261
TMCC1-DT	28.21410213	4.444690926	6.347820941	2.666261
PRORSD1P	14.10705107	2.222345463	6.347820941	2.666261
RNF32-DT	14.10705107	2.222345463	6.347820941	2.666261
ENSG000002	14.10705107	2.222345463	6.347820941	2.666261
ENSG000002	14.10705107	2.222345463	6.347820941	2.666261
UBR5-DT	14.10705107	2.222345463	6.347820941	2.666261
LUCAT1	14.10705107	2.222345463	6.347820941	2.666261
VIRMA-DT	14.10705107	2.222345463	6.347820941	2.666261
LARP4P	14.10705107	2.222345463	6.347820941	2.666261
ENSG000002	14.10705107	2.222345463	6.347820941	2.666261
LINC00663	14.10705107	2.222345463	6.347820941	2.666261
ALOXE3P1	14.10705107	2.222345463	6.347820941	2.666261
MRPL39	761.7807576	120.006655	6.347820941	2.666261
DHFRP1	42.3211532	6.667036389	6.347820941	2.666261
CHST11	996.6216666	157.7865279	6.316265907	2.659072
KIAA1586	455.5747668	72.22622754	6.307608501	2.657093
PRSS16	63.06681654	10.00055458	6.306331915	2.656801
RAD17	63.06681654	10.00055458	6.306331915	2.656801
MSH2	5647.799386	895.6052215	6.306126014	2.656754
CYRIB	2808.962815	446.691438	6.288373979	2.652687
ADAMTS14	292.9287663	46.66925472	6.276696897	2.650006
CORO1C	4755.735863	757.8198028	6.275549735	2.649742
ZNF608	578.3890938	92.22733671	6.271341171	2.648774
ITGB3BP	508.683665	81.11560939	6.27109466	2.648717
COX17	626.5190327	100.0055458	6.264842889	2.647278
HSPA4L	625.6892062	100.0055458	6.256545084	2.645366
HDAC8	319.4832153	51.11394565	6.250411924	2.643951
MVB12B	1020.686636	163.3423915	6.248755308	2.643569
CENPQ	97.0897044	15.55641824	6.241134875	2.641808
NNAT	741.0350943	118.8954823	6.232659813	2.639848
CCDC112	497.89592	80.00443666	6.223353864	2.637692
ANGPTL2	103.7283167	16.66759097	6.223353864	2.637692
ENSG000002	41.49132667	6.667036389	6.223353864	2.637692
RHOF	20.74566333	3.333518194	6.223353864	2.637692
LINC01004	20.74566333	3.333518194	6.223353864	2.637692
WDR5B-DT	20.74566333	3.333518194	6.223353864	2.637692
LINC00997	20.74566333	3.333518194	6.223353864	2.637692
ENTPD8	89.6212656	14.44524551	6.204205083	2.633246
ANKFN1	137.7512045	22.22345463	6.198460448	2.63191
TATDN1P1	1.100642416	2.4894796	2.261842323	1.177498
LINC01426	1.100642416	2.4894796	2.261842323	1.177498
EEF1GP5	1.100642416	2.4894796	2.261842323	1.177498
ECI2-DT	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
SLC25A5P2	1.100642416	2.4894796	2.261842323	1.177498
SRSF6P2	1.100642416	2.4894796	2.261842323	1.177498
APOA1-AS	1.100642416	2.4894796	2.261842323	1.177498
NSA2P1	1.100642416	2.4894796	2.261842323	1.177498
LINC02889	1.100642416	2.4894796	2.261842323	1.177498
KCNMA1-AS	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
PPIAP67	1.100642416	2.4894796	2.261842323	1.177498
SRRM1P3	1.100642416	2.4894796	2.261842323	1.177498
HLCS-IT1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RPS15AP29	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
MYO5BP2	1.100642416	2.4894796	2.261842323	1.177498
HSPA5-DT	1.100642416	2.4894796	2.261842323	1.177498
RN7SL608P	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RPL13P5	1.100642416	2.4894796	2.261842323	1.177498
KRTAP10-5	1.100642416	2.4894796	2.261842323	1.177498
RN7SL809P	1.100642416	2.4894796	2.261842323	1.177498
HSPA8P9	1.100642416	2.4894796	2.261842323	1.177498
RPL29P26	1.100642416	2.4894796	2.261842323	1.177498
CORT	1.100642416	2.4894796	2.261842323	1.177498
VWFP1	1.100642416	2.4894796	2.261842323	1.177498
ELOCP19	1.100642416	2.4894796	2.261842323	1.177498
RN7SL57P	1.100642416	2.4894796	2.261842323	1.177498
PDE6B-AS1	1.100642416	2.4894796	2.261842323	1.177498
RN7SL749P	1.100642416	2.4894796	2.261842323	1.177498
LINC02932	1.100642416	2.4894796	2.261842323	1.177498
RN7SL558P	1.100642416	2.4894796	2.261842323	1.177498
RN7SL393P	1.100642416	2.4894796	2.261842323	1.177498
ENO1P3	1.100642416	2.4894796	2.261842323	1.177498
LINC01322	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
NPM1P21	1.100642416	2.4894796	2.261842323	1.177498
PDCD6-DT	1.100642416	2.4894796	2.261842323	1.177498
RBMXP4	1.100642416	2.4894796	2.261842323	1.177498
SRD5A3-AS1	1.100642416	2.4894796	2.261842323	1.177498
NCAPGP1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
KRT18P54	1.100642416	2.4894796	2.261842323	1.177498
LINC02600	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
SHANK3	1.100642416	2.4894796	2.261842323	1.177498
MTCO1P31	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RBM12B-DT	1.100642416	2.4894796	2.261842323	1.177498
LINC01863	1.100642416	2.4894796	2.261842323	1.177498
NRIP3-DT	1.100642416	2.4894796	2.261842323	1.177498
ANK3-DT	1.100642416	2.4894796	2.261842323	1.177498
FNTAP1	1.100642416	2.4894796	2.261842323	1.177498
SIGLEC10-AS	1.100642416	2.4894796	2.261842323	1.177498
OR4A4P	1.100642416	2.4894796	2.261842323	1.177498
RSF1-IT2	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RDXP1	1.100642416	2.4894796	2.261842323	1.177498
LINC02747	1.100642416	2.4894796	2.261842323	1.177498
LINC02955	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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BICD1-AS1	1.100642416	2.4894796	2.261842323	1.177498
ST13P3	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
RBM8B	1.100642416	2.4894796	2.261842323	1.177498
PTCD2P1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
SERPINE4P	1.100642416	2.4894796	2.261842323	1.177498
LINC02292	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
EIF5-DT	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
GREP1	1.100642416	2.4894796	2.261842323	1.177498
MRPL12	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
KRT18P8	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498

PSME4	2953.023603	3484.637686	1.180023648	0.238816
EGLN3	91.35332055	107.7837549	1.179855908	0.238611
EPB41L1	816.6766729	963.3867582	1.179642801	0.23835
SPTY2D1	516.2012932	608.9226568	1.179622494	0.238325
FTL	2419.212031	2853.491574	1.179512807	0.238191
STK3	1026.899374	1211.178277	1.179451763	0.238116
SART3	931.1434842	1097.838659	1.179022006	0.237591
SHTN1	2344.368347	2763.486583	1.178776615	0.23729
ZNF48	230.034265	271.1261465	1.178633742	0.237115
SYK	282.865101	333.3518194	1.178483377	0.236931
SORT1	897.0235693	1056.725268	1.178035119	0.236383
ZNF232	151.8886534	178.8988098	1.177828664	0.23613
TMEM232	66.03854498	77.7820912	1.177828664	0.23613
CRTAC1	6.603854498	7.7782091	1.177828664	0.23613
PYCR3	6.603854498	7.7782091	1.177828664	0.23613
PLPPR5	6.603854498	7.7782091	1.177828664	0.23613
CTCFL	6.603854498	7.7782091	1.177828664	0.23613
POLN	6.603854498	7.7782091	1.177828664	0.23613
IGFBPL1	6.603854498	7.7782091	1.177828664	0.23613
CELF6	6.603854498	7.7782091	1.177828664	0.23613
SNRPA1P1	6.603854498	7.7782091	1.177828664	0.23613
NPFFR1	6.603854498	7.7782091	1.177828664	0.23613
FGB	6.603854498	7.7782091	1.177828664	0.23613
ZNF843	6.603854498	7.7782091	1.177828664	0.23613
MYOZ1	6.603854498	7.7782091	1.177828664	0.23613
OR7A17	6.603854498	7.7782091	1.177828664	0.23613
LEMD1	6.603854498	7.7782091	1.177828664	0.23613
ENSG000002	6.603854498	7.7782091	1.177828664	0.23613
ENSG000002	6.603854498	7.7782091	1.177828664	0.23613
RPLP0P2	6.603854498	7.7782091	1.177828664	0.23613
ENSG000002	6.603854498	7.7782091	1.177828664	0.23613
ENSG000002	6.603854498	7.7782091	1.177828664	0.23613
ENSG000002	6.603854498	7.7782091	1.177828664	0.23613
LRRC34	19.81156349	23.33462736	1.177828664	0.23613
TSTD2	336.7965794	396.6886651	1.177828664	0.23613
RAB11FIP4	211.3233439	248.9026918	1.177828664	0.23613
MRRF	165.0963624	194.455228	1.177828664	0.23613
MPL	26.41541799	31.11283648	1.177828664	0.23613
RPS20P14	26.41541799	31.11283648	1.177828664	0.23613
ENSG000002	26.41541799	31.11283648	1.177828664	0.23613
LGI1	13.207709	15.55641824	1.177828664	0.23613
SYPL2	13.207709	15.55641824	1.177828664	0.23613
SPDYE18	13.207709	15.55641824	1.177828664	0.23613
ITFG1	1533.194886	1805.655689	1.177707873	0.235982
MTPAP	379.7216336	446.691438	1.176365523	0.234336
FN3K	239.9400468	282.2378738	1.176284983	0.234238
DNAH7	1188.69381	1397.855296	1.175959095	0.233838
EDEM1	635.0706742	746.7080755	1.175787366	0.233627
CRTC2	736.3297765	865.6035578	1.17556506	0.233354
IFNAR2	80.34689639	94.44968217	1.175523715	0.233304
EID2	73.74304189	86.67147305	1.175317302	0.23305
UBAP1	724.2227099	851.1583123	1.175271502	0.232994
DHX15	2388.394043	2806.82232	1.175192313	0.232897
PPP1R7	342.2997915	402.2445288	1.175123499	0.232812
TMED10	2358.676698	2771.264792	1.174923547	0.232567
FBRSL1	746.2355583	876.7152851	1.174850589	0.232477
GTF2IRD1	356.6081429	418.9121198	1.174712715	0.232308
CEP97	269.657392	316.6842285	1.174394761	0.231917
USP38	762.7451945	895.6052215	1.174186646	0.231662
CLPB	331.2933673	388.910456	1.173915612	0.231329
IQCK	169.4989321	198.8999189	1.173458242	0.230767
TMEM41B	203.618847	238.9021373	1.173281063	0.230549
SLBP	204.7194894	240.01331	1.172400882	0.229466
ARMH1	34.11991491	40.00221833	1.172400882	0.229466
STYK1	61.63597531	72.22622754	1.171819334	0.22875
UGGT2	987.2762474	1156.730813	1.171638451	0.228527
HSPA14	144.1841565	168.8982552	1.171406479	0.228242
SPG21	804.5696063	942.2744763	1.171153458	0.22793
IER5	55.03212081	64.44801842	1.171098214	0.227862
OXER1	27.51606041	32.22400921	1.171098214	0.227862
RAD51AP2	27.51606041	32.22400921	1.171098214	0.227862
MAPK12	82.54818122	96.67202764	1.171098214	0.227862
NUP62	662.5867346	775.5985665	1.170561567	0.227201
ITM2B	4679.931554	5476.970393	1.170309935	0.226891
ENSG000002	442.4582514	517.8064929	1.170294579	0.226872
USP43	263.0535375	307.7948466	1.170084423	0.226613
RPS15	2074.710955	2426.801245	1.169705708	0.226146
CDYL	361.0107125	422.2456379	1.169620799	0.226041
NAPA	715.4175706	836.7130668	1.169545034	0.225947
ZDHHC23	111.164884	130.0072096	1.1694989	0.225891
OSBP2	111.164884	130.0072096	1.1694989	0.225891
PEX19	132.07709	154.4530097	1.169415602	0.225788
EMX2	20.91220591	24.44580009	1.168972809	0.225241
BTBD7	62.73661773	73.33740027	1.168972809	0.225241
ENSG000002	41.82441182	48.89160018	1.168972809	0.225241
TXNRD2	307.0792341	358.9087923	1.168782361	0.225006
TOR1AIP2	893.721642	1044.502368	1.16871106	0.224918
LDLRAD3	160.6937928	187.7881916	1.16860887	0.224792
CRIM1	1971.250568	2303.461072	1.168527792	0.224692
BICD1	1077.528926	1258.958705	1.168375785	0.224504
VPS35	2249.713099	2627.92351	1.168114953	0.224182
SF3B2	2054.899391	2400.1331	1.168005164	0.224047
RPS7	646.0770984	754.4862846	1.167796052	0.223788
MORF4L2	1250.329785	1460.080969	1.167756688	0.22374
SMG9	330.1927249	385.5769378	1.16773299	0.22371
P3H2	1025.798732	1197.844204	1.167718547	0.223693
ATP1A1	6958.261356	8124.895012	1.167661661	0.223622
ALDH7A1	647.1777408	755.5974574	1.167526956	0.223456
SPAG8	70.44111464	82.22678213	1.167312337	0.223191
RFT1	176.1027866	205.5669553	1.167312337	0.223191
RAI1	2575.503254	3005.722239	1.167042687	0.222857
RAB33B-AS	96.25987787	15.55641824	6.187791842	2.629425
ATP2A3	1594.096771	257.7920737	6.183653158	2.628459
OCIAD2	1516.922903	245.5691736	6.177171509	2.626946
ACYP1	438.9782362	71.11505481	6.172789114	2.625923
TMPRSS6	233.1812559	37.77987287	6.172102714	2.625762
RBL1	1145.160616	185.5658462	6.171182035	2.625547
CTDP1	54.7685512	8.889381852	6.161120325	2.623193
DTD1	54.7685512	8.889381852	6.161120325	2.623193
RNA5S9	54.7685512	8.889381852	6.161120325	2.623193
LHFPL5	27.3842756	4.444690926	6.161120325	2.623193
LINC00654	27.3842756	4.444690926	6.161120325	2.623193
ANKRD65	27.3842756	4.444690926	6.161120325	2.623193
ENSG000002	27.3842756	4.444690926	6.161120325	2.623193
TRIM2	116.1757147	18.88993643	6.150137936	2.620619
DERA	660.5419206	107.7837549	6.128399599	2.61551
FLT4	769.2491964	125.5625187	6.12642375	2.615045
RCOR2	170.1144393	27.77931829	6.123780202	2.614423
HPSE	516.9819303	84.44912759	6.121814932	2.613959
NEBL	2865.39102	470.0260654	6.096238551	2.607919
H3P6	541.8767263	88.89381852	6.095775109	2.60781
POLA1	3005.631704	493.3606928	6.092158836	2.606954
NPM1	2077.88564	341.1300286	6.091183612	2.606723
PGF	47.3001124	7.77820912	6.081105775	2.604334
LYZ	256.4163988	42.22456379	6.072683191	2.602334
SLC16A14	390.8482972	64.44801842	6.064551041	2.600401
MASP2	60.57733694	10.00055458	6.057397761	2.598698
BMI1	60.57733694	10.00055458	6.057397761	2.598698
AKAP5	127.7932861	21.1122819	6.053030495	2.597658
KIAA0040	913.6390132	151.1194915	6.045805239	2.595935
CISD1	287.9498071	47.78042745	6.026522207	2.591326
EPHB1	682.1174104	113.3396186	6.018349266	2.589368
ZNF252P	113.6862351	18.88993643	6.018349266	2.589368
EFHD2	954.3005134	158.8977006	6.005754078	2.586345
CFAP20DC	259.7357049	43.33573653	5.99356849	2.583415
UNG	1291.210086	215.5675099	5.989817698	2.582512
RPS15A	326.1218276	54.44746384	5.989660576	2.582474
CCDC18	531.0889814	88.89381852	5.974419709	2.578799
CHRNA9	33.19306133	5.555863657	5.974419709	2.578799
RAD51-AS1	33.19306133	5.555863657	5.974419709	2.578799
FNTB	53.10889814	8.889381852	5.974419709	2.578799
ENSG000002	46.47028587	7.77820912	5.974419709	2.578799
ENSG000002	26.55444907	4.444690926	5.974419709	2.578799
UQCR11	13.27722453	2.222345463	5.974419709	2.578799
EGR4	13.27722453	2.222345463	5.974419709	2.578799
FAM167A	13.27722453	2.222345463	5.974419709	2.578799
TMIE	13.27722453	2.222345463	5.974419709	2.578799
FAM167B	13.27722453	2.222345463	5.974419709	2.578799
MATN1-AS1	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
TEX21P	13.27722453	2.222345463	5.974419709	2.578799
RPL8P3	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
ARPC3P3	13.27722453	2.222345463	5.974419709	2.578799
ZNRD2-DT	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
H4C14	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
ENSG000002	13.27722453	2.222345463	5.974419709	2.578799
FGF4	6.638612267	1.111172731	5.974419709	2.578799
CD69	6.638612267	1.111172731	5.974419709	2.578799
HOXD11	6.638612267	1.111172731	5.974419709	2.578799
ADCY10P1	6.638612267	1.111172731	5.974419709	2.578799
INHBC	6.638612267	1.111172731	5.974419709	2.578799
CLDN7	6.638612267	1.111172731	5.974419709	2.578799
SLC15A5	6.638612267	1.111172731	5.974419709	2.578799
GUSBP15	6.638612267	1.111172731	5.974419709	2.578799
TOMM20L	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
MRPL38	6.638612267	1.111172731	5.974419709	2.578799
LINC02656	6.638612267	1.111172731	5.974419709	2.578799
SNORA11F	6.638612267	1.111172731	5.974419709	2.578799
PPP1R26-AS	6.638612267	1.111172731	5.974419709	2.578799
RPS3AP38	6.638612267	1.111172731	5.974419709	2.578799
ELL2P1	6.638612267	1.111172731	5.974419709	2.578799
SDAD1P2	6.638612267	1.111172731	5.974419709	2.578799
RFKP4	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
SILC1	6.638612267	1.111172731	5.974419709	2.578799
ARPC1AP1	6.638612267	1.111172731	5.974419709	2.578799
NR2F2-AS1	6.638612267	1.111172731	5.974419709	2.578799
MEF2C-AS1	6.638612267	1.111172731	5.974419709	2.578799
YPEL3-DT	6.638612267	1.111172731	5.974419709	2.578799
ZNF252P-AS	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
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ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
AKAP1-DT	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
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ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
POLR2J3.1	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
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ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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CBX3P2	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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HEATR6-DT	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
LETM1P2	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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TAS2R6P	1.100642416	2.4894796	2.261842323	1.177498
MMP28	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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AFAP1-AS1	1.100642416	2.4894796	2.261842323	1.177498
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INTS4P1.1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
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NPEPPSP1.1	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	1.100642416	2.4894796	2.261842323	1.177498
ENSG000002	13.207709	29.8737552	2.261842323	1.177498
POLR2B	1948.137077	4398.910453	2.258008692	1.175051
TOP1MT	409.4389789	924.4267582	2.257788843	1.174911
MED21	350.0042884	789.9948598	2.257100516	1.174471
ZNF664	1074.226998	2421.433824	2.254117452	1.172563
HIGD2A	193.7130653	436.4887566	2.253274739	1.172023
EGLN3	91.35332055	205.7969803	2.252758619	1.171693

MCL1	1398.916511	1632.312742	1.166840715	0.222608
DNM2	2608.522527	3043.502111	1.166753241	0.222499
MSANTD3	198.1156349	231.1239281	1.166611248	0.222324
ZNF606	672.4925164	784.4879484	1.166537812	0.222233
TRIM3	276.2612465	322.2400921	1.166432485	0.222103
EAPP	665.8886619	776.7097393	1.166425836	0.222095
PI4KB	1346.085675	1570.08707	1.166409463	0.222074
NIPSNAP1	226.7323378	264.4591101	1.166393434	0.222055
TWNK	113.3661689	132.229555	1.166393434	0.222055
RNF10	1703.79446	1986.776844	1.166089508	0.221679
SLC7A5	92.45396297	107.7837549	1.165810004	0.221333
CCDC88B	121.0706658	141.1189369	1.165591483	0.221062
ADNP2	676.895086	788.9326393	1.165516866	0.22097
MPRIP	2317.952929	2701.26091	1.165364869	0.220782
MACROH2A	392.9293426	457.8031654	1.165103024	0.220458
ARFRP1	214.6252712	250.0138646	1.164885492	0.220188
RPS2P5	214.6252712	250.0138646	1.164885492	0.220188
FBL	14.30835141	16.66759097	1.164885492	0.220188
SORCS3	14.30835141	16.66759097	1.164885492	0.220188
MAGEB17	14.30835141	16.66759097	1.164885492	0.220188
CYYR1	42.92505424	50.00277291	1.164885492	0.220188
RTKN	171.7002169	200.0110917	1.164885492	0.220188
ENSG000002	422.6466879	492.24952	1.164683255	0.219938
SELENOT	1097.340489	1277.848641	1.164496028	0.219706
UQCRH	617.4603955	718.9287572	1.164331773	0.219502
FEM1A	194.8137077	226.6792372	1.163569237	0.218557
SBF2	2422.513958	2817.934047	1.163227166	0.218133
PSMD9	50.62955115	58.89215477	1.163197252	0.218096
SLC45A1	50.62955115	58.89215477	1.163197252	0.218096
MRPL18	238.8394043	277.7931829	1.163096113	0.21797
AIMP1	427.0492575	496.694211	1.163084123	0.217955
PNPO	86.95075089	101.1167186	1.16291944	0.217751
TUBA1A	1873.293393	2176.787381	1.162010921	0.216624
ULK4	526.107075	611.1450023	1.16163616	0.216158
ARHGAP12	1469.357626	1706.761315	1.161569713	0.216076
NOL3	124.372593	144.4524551	1.161449251	0.215926
CXADR	519.5032205	603.3667932	1.161430323	0.215903
MECP2	1296.556766	1505.639051	1.161259646	0.215691
DHX30	777.0535459	902.2722579	1.161145538	0.215549
BRSK1	110.0642416	127.7848641	1.16100254	0.215371
CYP7A1	22.01284833	25.55697282	1.16100254	0.215371
KIF9-AS1	22.01284833	25.55697282	1.16100254	0.215371
FAM219A	88.0513933	102.2278913	1.16100254	0.215371
MED27	205.8201318	238.9021373	1.160732602	0.215036
ACTMAP	279.5631737	324.4624376	1.160605073	0.214877
MAZ	1494.672401	1734.540634	1.160482145	0.214724
CHCHD5	169.4989321	196.6775735	1.160346977	0.214556
CEP85	169.4989321	196.6775735	1.160346977	0.214556
PRIM2	442.4582514	513.3618019	1.160249132	0.214435
AKT2	1452.84799	1685.649034	1.160237716	0.21442
FBXO38	767.1477642	890.0493579	1.160205894	0.214381
PVR	228.9336226	265.5702828	1.160031802	0.214164
ZNF415	466.6723845	541.1411202	1.159573907	0.213595
RPS8	1350.488245	1565.642379	1.159315814	0.213274
TASOR2	2817.644586	3265.736658	1.159030729	0.212919
DHDDS	231.1349074	267.7926283	1.158598808	0.212381
AK3	693.4047223	803.3778848	1.158598808	0.212381
RANGAP1	455.6659603	527.8070474	1.158320115	0.212034
TMTC3	1001.584599	1160.064332	1.158229003	0.211921
HP1BP3	3384.47543	3919.106224	1.15796563	0.211592
ZC2HC1C	45.12633907	52.22511838	1.157309001	0.210774
INVS	729.725922	844.4912759	1.157271861	0.210728
PHF10	1294.355482	1497.860842	1.157225247	0.21067
PRKCE	278.4625313	322.2400921	1.157211674	0.210653
HMGXB3	790.2612549	914.495158	1.157206117	0.210646
PIP4P2	188.2098532	217.7898554	1.157165003	0.210595
FAH	143.0835141	165.564737	1.157119589	0.210538
ZBTB1	1310.865118	1516.750778	1.157060904	0.210465
ZFP90	309.280519	357.7976195	1.156870859	0.210228
CAVIN3	52.83083598	61.11450023	1.156796009	0.210134
LCORL	249.8458285	288.9049102	1.156332735	0.209557
SRR	189.3104956	218.9010281	1.156306878	0.209524
NAT9	128.7751627	148.897146	1.15625671	0.209462
CD164	1553.006449	1795.655134	1.15624448	0.209446
GORASP1	325.7901552	376.687556	1.156227559	0.209425
ERMAP	272.9593192	315.5730557	1.156117537	0.209288
RPL17P7	220.1284833	254.4585555	1.155954703	0.209085
TKT	1484.76662	1715.650697	1.155501932	0.20852
LASP1	687.9015102	794.488503	1.154945136	0.207824
RACK1	7641.760296	8824.933833	1.154829973	0.20768
TBC1D16	690.102795	796.7108484	1.154481411	0.207245
DAZAP2	1330.676681	1535.640715	1.154029928	0.206681
SHPRH	2046.094252	2361.242054	1.154024089	0.206673
TXN	369.8158519	426.6903289	1.153791344	0.206382
CNTN5	23.11349074	26.66814555	1.153791344	0.206382
CCN3	1602.535358	1848.991425	1.153791344	0.206382
ANKRD6	161.7944352	186.6770189	1.153791344	0.206382
TOR2A	61.63597531	71.11505481	1.153791344	0.206382
ADGB	30.81798766	35.55752741	1.153791344	0.206382
TRIM7	30.81798766	35.55752741	1.153791344	0.206382
APOF	15.40899383	17.7787637	1.153791344	0.206382
CCDC152	15.40899383	17.7787637	1.153791344	0.206382
KCNK16	7.704496914	8.889381852	1.153791344	0.206382
GNRH1	7.704496914	8.889381852	1.153791344	0.206382
GHRL	7.704496914	8.889381852	1.153791344	0.206382
PLA2G1B	7.704496914	8.889381852	1.153791344	0.206382
ZNF479	7.704496914	8.889381852	1.153791344	0.206382
PRR23A	7.704496914	8.889381852	1.153791344	0.206382
C5orf58	7.704496914	8.889381852	1.153791344	0.206382
SNHG20	7.704496914	8.889381852	1.153791344	0.206382
PCP4L1	7.704496914	8.889381852	1.153791344	0.206382
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
ENSG000002	6.638612267	1.111172731	5.974419709	2.578799
FKBP9P1.1	6.638612267	1.111172731	5.974419709	2.578799
CROCCP2.1	6.638612267	1.111172731	5.974419709	2.578799
HNRNPUL2	172.6039189	28.89049102	5.974419709	2.578799
STMN2	39.8316736	6.667036389	5.974419709	2.578799
FAM151B-D	39.8316736	6.667036389	5.974419709	2.578799
LINC01588	19.9158368	3.333518194	5.974419709	2.578799
ENSG000002	19.9158368	3.333518194	5.974419709	2.578799
ENSG000002	19.9158368	3.333518194	5.974419709	2.578799
TMPO-AS1	19.9158368	3.333518194	5.974419709	2.578799
PCF11-AS1	19.9158368	3.333518194	5.974419709	2.578799
ENSG000002	19.9158368	3.333518194	5.974419709	2.578799
STAG3L5P	19.9158368	3.333518194	5.974419709	2.578799
KITLG	1018.197156	171.1206006	5.950172876	2.572932
CHD7	10170.35399	1711.206006	5.943383763	2.571285
CLCNKB	151.8582556	25.55697282	5.941950037	2.570936
DNAJC9	1029.814728	173.3429461	5.940909342	2.570684
PRKACB	4688.519914	791.1549848	5.926171235	2.5671
DIABLO	92.1107452	15.55641824	5.921076676	2.56586
TROAP	243.1391743	41.11339106	5.913868158	2.564102
COX7B	1024.005942	173.3429461	5.907398975	2.562523
VAV3	656.3927879	111.1172731	5.907207487	2.562476
SLCO3A1	444.7870219	75.55974574	5.886560596	2.557425
FBXO43	320.3130419	54.44746384	5.882974509	2.556546
CKS1B	104.5581432	17.7787637	5.881069401	2.556079
ZNF729	52.2790716	8.889381852	5.881069401	2.556079
FXYD5	561.7925631	95.5608549	5.878898464	2.555546
C4orf47	45.64045934	7.77820912	5.867733643	2.552803
LRP2	3641.278828	622.2567296	5.851730733	2.548863
CD40	39.00184707	6.667036389	5.849952632	2.548425
TMEM107	266.3743172	45.55808199	5.846916849	2.547676
TRPV2	363.4640216	62.22567296	5.841062126	2.546231
GPR19	71.36508187	12.22290005	5.838637443	2.545632
C18orf54	175.0933985	30.00166375	5.836122957	2.54501
LINC-PINT	97.0897044	16.66759097	5.825059216	2.542273
RNU1-1	32.3632348	5.555863657	5.825059216	2.542273
B3GLCT	232.3514293	40.00221833	5.808463606	2.538157
TTC39B	1825.618373	314.461883	5.805531519	2.537428
FGD4	1367.554127	235.5686191	5.805332359	2.537379
PEX5L	244.7988273	42.22456379	5.797545441	2.535442
RAD18	765.9298903	132.229555	5.792425831	2.534168
LINC02614	25.72462253	4.444690926	5.787719093	2.532995
ENSG000002	25.72462253	4.444690926	5.787719093	2.532995
ZNF98	154.3477352	26.66814555	5.787719093	2.532995
PKMYT1	173.4337455	30.00166375	5.780804256	2.53127
SMC5-DT	70.53525534	12.22290005	5.77074631	2.528758
C18orf21	89.6212656	15.55641824	5.761047577	2.526331
TACC3	556.8136039	96.67202764	5.7598213	2.526024
RIMKLA	460.553726	80.00443666	5.756602324	2.525218
PFKFB2	1394.108576	242.2356555	5.755174949	2.52486
MMS22L	830.6563599	144.4524551	5.75037897	2.523657
C5orf34	338.5692256	58.89215477	5.748969909	2.523303
CMSS1	536.0679406	93.33850944	5.743266566	2.521872
SNRNP48	159.3266944	27.77931829	5.735442921	2.519905
MAPRE2	554.3241243	96.67202764	5.734069491	2.519559
ST6GALNA(	38.17202053	6.667036389	5.725485555	2.517398
HSPD1P1	19.08601027	3.333518194	5.725485555	2.517398
TMED2-DT	19.08601027	3.333518194	5.725485555	2.517398
BCDIN3D-A	19.08601027	3.333518194	5.725485555	2.517398
ENSG000002	19.08601027	3.333518194	5.725485555	2.517398
RNVU1-27	19.08601027	3.333518194	5.725485555	2.517398
EPCAM	10545.43559	1843.435561	5.720533881	2.51615
KLF10	3979.848054	696.7053026	5.712383757	2.514093
RECQL4	822.3580946	144.4524551	5.692932627	2.509172
UCHL3	31.53340827	5.555863657	5.675698724	2.504798
ZNF584-DT	31.53340827	5.555863657	5.675698724	2.504798
SERPINA1	94.6002248	16.66759097	5.675698724	2.504798
CCDC110	201.6478476	35.55752741	5.671031208	2.503611
NR2F1-AS1	75.51421454	13.33407278	5.663252016	2.501631
H1-2	3965.741003	701.1499935	5.656052256	2.499795
TMX2P1	100.4090105	17.7787637	5.647693631	2.497662
LCA5	463.8730322	82.22678213	5.641386178	2.49605
HTATIP2	475.4906036	84.44912759	5.630497522	2.493262
TRPC6	175.0933985	31.11283648	5.627689994	2.492543
DIRAS1	212.4355925	37.77987287	5.622983256	2.491336
ENSG000002	224.8829905	40.00221833	5.62176299	2.491023
SNRPB2	1296.189045	231.1239281	5.60819927	2.487538
TMEM151A	24.894796	4.444690926	5.601018477	2.485689
ENSG000002	24.894796	4.444690926	5.601018477	2.485689
ENSG000002	24.894796	4.444690926	5.601018477	2.485689
RNU6-171P	12.447398	2.222345463	5.601018477	2.485689
SELENOH	12.447398	2.222345463	5.601018477	2.485689
ENSG000002	12.447398	2.222345463	5.601018477	2.485689
MIR4500HG	12.447398	2.222345463	5.601018477	2.485689
MTCYBP32	12.447398	2.222345463	5.601018477	2.485689
TMEM44-AS	12.447398	2.222345463	5.601018477	2.485689
ELOA-AS1	12.447398	2.222345463	5.601018477	2.485689
RPL21P123	12.447398	2.222345463	5.601018477	2.485689
ENSG000002	12.447398	2.222345463	5.601018477	2.485689
ENSG000002	12.447398	2.222345463	5.601018477	2.485689
ENSG000002	12.447398	2.222345463	5.601018477	2.485689
ENSG000002	12.447398	2.222345463	5.601018477	2.485689
ITCH	99.579184	17.7787637	5.601018477	2.485689
PCGF6	74.684388	13.33407278	5.601018477	2.485689
ENSG000002	37.342194	6.667036389	5.601018477	2.485689
CRYBA2	62.23699	11.11172731	5.601018477	2.485689
TIMELESS	1692.016302	303.3501557	5.577766386	2.479688
SNRPD2	556.9250626	1253.867892	2.25141222	1.17083
B4GALT4	236.6381195	532.7486344	2.251322127	1.170772
FBXW7	849.6959454	1912.750159	2.251099549	1.17063
SDF2L1	77.04496914	173.4337455	2.251071646	1.170612
KHDRBS1	1659.768764	3735.879053	2.25084309	1.170465
PARP1	2897.991482	6514.968113	2.248097744	1.168705
H2AX	115.5674537	259.7357049	2.24748142	1.168309
NUP85	343.4004339	771.738676	2.247343334	1.168221
UTP11	169.4989321	380.8903788	2.247155036	1.1681
C17orf58	55.03212081	123.6441535	2.246763375	1.167848
MIIP	51.73019357	116.1757147	2.245800888	1.16723
PALM2AKAI	649.3790256	1457.175393	2.243952045	1.166042
AFAP1L1	46.22698148	103.7283167	2.243891194	1.166003
CENPJ	528.3083598	1184.99229	2.242993637	1.165426
TFAP4	175.0021442	392.5079503	2.242875092	1.165349
FRMPD3	130.9764475	293.7585928	2.242835245	1.165324
FAAH2	127.6745203	286.290154	2.242343683	1.165007
HECA	211.3233439	473.8309506	2.242208275	1.16492
NPM1	926.7409145	2077.88564	2.242142984	1.164878
SLC4A11	237.7387619	532.7486344	2.240899339	1.164078
TUSC3	1282.248415	2872.859459	2.240485872	1.163812
ENPP4	454.5653179	1018.197156	2.23993586	1.163457
CYBA	175.0021442	391.6781237	2.238133284	1.162296
MRPS21	172.8008594	386.6991645	2.237831258	1.162101
THOC6	64.93790256	145.2196433	2.236284783	1.161104
PDCL	249.8458285	558.473257	2.235271488	1.16045
NID1	945.4518356	2112.738354	2.23463351	1.160038
EXOSC5	90.25267814	201.6478476	2.23425888	1.159796
EDA	29.71734524	66.38612267	2.233918344	1.159576
NEAT1	4616.094294	10311.4245	2.233798499	1.159499
MT1X	113.3661689	253.0970927	2.232562811	1.158701
WDR18	84.74946605	189.2004496	2.232467748	1.158639
CD36	53.9314784	120.3248473	2.231068958	1.157735
PSMB7	523.9057902	1168.395759	2.230163859	1.15715
HSPA5	6741.4348	15023.17956	2.228483996	1.156063
EMC6	148.5867262	331.1007868	2.228333548	1.155965
SSNA1	72.64239948	161.816174	2.227571985	1.155472
ERCC8	332.3940097	740.2052678	2.226891118	1.155031
RMND1	257.5503254	573.4101346	2.22640035	1.154713
ATP2A1	23.11349074	51.44924507	2.225940064	1.154415
SRSF3	751.7387703	1672.930291	2.225414409	1.154074
NAE1	283.9657434	631.4979919	2.223852724	1.153061
DCLK2	344.5010763	765.9298903	2.223301879	1.152704
NUP35	102.3597447	227.3724701	2.221307515	1.151409
CPT1A	913.5332055	2028.096048	2.220057284	1.150597
FBXL2	79.24625397	175.9232251	2.219956354	1.150531
SLX9	39.62312699	87.96161254	2.219956354	1.150531
NATD1	19.81156349	43.98080627	2.219956354	1.150531
REEP4	59.43469048	131.9424188	2.219956354	1.150531
FAM83D	520.6038629	1155.118534	2.218805154	1.149783
ENSG000002	38.52248457	85.47213294	2.218759612	1.149753
SDK2	774.8522611	1717.740924	2.216862504	1.148519
TMEM9	325.7901552	721.949084	2.215994168	1.147954
ZNF718	86.95075089	192.5197557	2.214124131	1.146736
POGK	538.2141416	1191.630902	2.214046064	1.146685
TSEN15	134.2783748	297.0778989	2.212403147	1.145614
DOK5	16.50963624	36.51236747	2.211579161	1.145077
ENSG000002	16.50963624	36.51236747	2.211579161	1.145077
DEDD2	48.42826632	107.0476228	2.210436816	1.144331
ENSG000002	80.34689639	177.5828781	2.210202088	1.144178
TRAF2	144.1841565	318.6533888	2.210044408	1.144075
BCAT1	63.83726015	141.0705107	2.209845948	1.143946
TPPP	62.73661773	138.5810311	2.208933731	1.14335
ACTR6	187.1092108	413.2536136	2.208622504	1.143147
ZNF517	46.22698148	102.0686636	2.207988935	1.142733
ENSG000002	15.40899383	34.02288787	2.207988935	1.142733
TMEM116	107.8629568	238.1602151	2.207988935	1.142733
PRR36	2100.02573	4635.411015	2.207311534	1.14229
ZNF222	75.94432672	167.6249597	2.207208451	1.142223
STT3B	2477.546079	5467.727028	2.206912345	1.142029
TMEM170B	45.12633907	99.579184	2.206675437	1.141874
RAP1GAP2	523.9057902	1155.948361	2.206405012	1.141698
TBCD	703.310504	1551.775617	2.20638766	1.141686
GHITM	819.9786001	1809.021843	2.206181774	1.141552
ZFP41	29.71734524	65.55629614	2.205994365	1.141429
SPCS3	309.280519	682.1174104	2.205497497	1.141104
CBX5	1602.535358	3534.231206	2.20539983	1.14104
DNMT3A	593.2462624	1307.806617	2.204491961	1.140446
UQCRQ	230.034265	507.0240119	2.204123859	1.140205
ELF2	1032.402586	2275.384354	2.203970025	1.140105
ITGB3	14.30835141	31.53340827	2.203846366	1.140024
ZNF8-ERVK3	14.30835141	31.53340827	2.203846366	1.140024
C14orf93	100.1584599	220.7338579	2.203846366	1.140024
ELOB	283.9657434	625.6892062	2.203396785	1.139729
DYNC1I2P1	55.03212081	121.1546739	2.201526528	1.138504
FRYL	3586.993635	7895.799465	2.201230409	1.13831
GPX4	1548.60388	3406.437919	2.199683188	1.137296
NRSN2-AS1	13.207709	29.04392867	2.19901337	1.136856
ENSG000002	13.207709	29.04392867	2.19901337	1.136856
SNORD17	250.9464709	551.8346447	2.19901337	1.136856
FUNDC1	104.5610295	229.8619497	2.198352013	1.136422
NOP56	662.5867346	1456.345566	2.1979697	1.136171
ZNF682	128.7751627	282.9708479	2.197402371	1.135799
BORA	77.04496914	169.2846128	2.197218257	1.135678
NUP43	408.3383364	897.0424826	2.196811816	1.135411
UMPS	347.8030036	763.4404107	2.195036854	1.134245
CAVIN4	12.10706658	26.55444907	2.193301647	1.133104
SLC16A11	12.10706658	26.55444907	2.193301647	1.133104
MIEN1	59.43469048	130.2827657	2.192032375	1.132269
PRELID3A	35.22055732	77.1738676	2.191159751	1.131695
DCAF17	280.6638162	614.9014612	2.190882564	1.131512

ENSG000002	7.704496914	8.889381852	1.153791344	0.206382
MIR130AHG	7.704496914	8.889381852	1.153791344	0.206382
KRT8P50	7.704496914	8.889381852	1.153791344	0.206382
SH3GL1P1	7.704496914	8.889381852	1.153791344	0.206382
KIAA0513	154.0899383	177.787637	1.153791344	0.206382
ANKRD37	38.52248457	44.44690926	1.153791344	0.206382
KDM4B	921.2377024	1062.281131	1.153102102	0.20552
ENOPH1	201.4175622	232.2351009	1.153003235	0.205397
ZNF768	379.7216336	437.8020562	1.152955264	0.205337
ATXN2L	2513.867279	2897.938484	1.152781019	0.205118
MYORG	132.07709	152.2306642	1.152589478	0.204879
ARF4	879.4132906	1013.389531	1.1523473	0.204576
GOLGA2	1284.4497	1480.082078	1.152308322	0.204527
NSFL1C	716.518213	825.6013395	1.152240549	0.204442
ZMYM1	576.7366261	664.4812934	1.152139925	0.204316
TIMMDC1	647.1777408	745.5969028	1.152074393	0.204234
BLVRA	179.4047139	206.678128	1.152021726	0.204168
ECPAS	7448.047231	8578.253487	1.151745313	0.203822
PRKCSH	2330.059995	2683.482146	1.151679421	0.203739
PWP1	516.2012932	594.4774113	1.151638748	0.203688
ZNF503	416.0428334	478.9154472	1.151120531	0.203039
MRPL10	157.3918655	181.1211552	1.150765668	0.202594
SGTB	149.6873686	172.2317734	1.150609934	0.202399
H4C8	441.3576089	507.8059383	1.150554398	0.202329
TRDMT1	150.788011	173.3429461	1.149580427	0.201107
EEF1D	111.164884	127.7848641	1.149507466	0.201016
TJP3	500.7922994	575.5874749	1.149353685	0.200823
AP1B1	1646.561055	1892.327162	1.149260245	0.200706
SIRPA	454.5653179	522.2511838	1.148902398	0.200256
GNB1L	31.91863007	36.66870014	1.148818106	0.20015
LIPE-AS1	31.91863007	36.66870014	1.148818106	0.20015
RPAIN	223.4304105	256.680901	1.148818106	0.20015
ZNF787	151.8886534	174.4541188	1.14856584	0.199834
LCMT2	200.3169198	230.0127554	1.148244271	0.19943
ZNF461	224.5310529	257.7920737	1.148135504	0.199293
RBM10	970.7666112	1114.50625	1.148068173	0.199208
SLC38A11	192.6124229	221.1233736	1.148022388	0.199151
THAP6	192.6124229	221.1233736	1.148022388	0.199151
BANP	160.6937928	184.4546734	1.147864334	0.198952
AHDC1	1087.434707	1247.846977	1.147514392	0.198512
HSP90AA1	10858.93808	12458.46866	1.147300829	0.198244
DDB2	96.85653263	111.1172731	1.147235712	0.198162
CFAP144	24.21413316	27.77931829	1.147235712	0.198162
PCMTD2	24.21413316	27.77931829	1.147235712	0.198162
TMEM50A	968.5653263	1111.172731	1.147235712	0.198162
RABGAP1	1980.055707	2271.237063	1.147057154	0.197937
PSMD5	509.5974387	584.4768567	1.146938372	0.197788
HSH2D	89.15203572	102.2278913	1.146669175	0.197449
AP1M1	324.6895128	372.242865	1.146457925	0.197183
BBS2	406.1370516	465.5813745	1.14636518	0.197067
DIAPH2	1186.492525	1360.075423	1.146299193	0.196984
WSB1	2596.41546	2975.720575	1.14608799	0.196718
CCDC183-AS	40.7237694	46.66925472	1.145995457	0.196601
APIP	195.9143501	224.4568918	1.145688877	0.196215
PTPN9	417.1434758	477.8042745	1.145419507	0.195876
GRK2	1227.216294	1405.633505	1.145383672	0.195831
ZNF846	392.9293426	450.0249562	1.145307584	0.195735
MAL2	1378.004305	1576.754106	1.144230174	0.194377
STARD5	66.03854498	75.55974574	1.144176416	0.19431
UGT1A6	16.50963624	18.88993643	1.144176416	0.19431
ALX1	16.50963624	18.88993643	1.144176416	0.19431
LINC01359	16.50963624	18.88993643	1.144176416	0.19431
SEPTIN10P1	16.50963624	18.88993643	1.144176416	0.19431
GPR135	148.5867262	170.0094279	1.144176416	0.19431
PARD6B	198.1156349	226.6792372	1.144176416	0.19431
SUPT7L	695.6060071	795.5996757	1.143750439	0.193772
C5orf24	140.8822293	161.1200461	1.1436506	0.193646
CNDP2	812.2741032	928.9404035	1.143629225	0.193619
UFD1	489.7858753	560.0310566	1.143420186	0.193356
GPN1	166.1970049	190.0105371	1.143284966	0.193185
SLC23A1	58.33404806	66.67036389	1.14290652	0.192707
TTI2	100.1584599	114.4507913	1.142697197	0.192443
STX3	342.2997915	391.1328015	1.142661524	0.192398
SH3BP4	1488.068547	1700.094279	1.142483848	0.192174
NPEPPS	1180.989313	1348.963696	1.142231925	0.191856
KHDRBS1	1659.768764	1895.66068	1.142123362	0.191718
ARMC9	520.6038629	594.4774113	1.141899732	0.191436
NBPF8	226.7323378	258.9032464	1.14188937	0.191423
ZNF580	159.5931504	182.232328	1.141855572	0.19138
PRPF19	1193.096379	1362.297769	1.141817034	0.191331
ARHGAP10	875.010721	998.9442856	1.141636624	0.191104
RB1CC1	2322.355498	2651.258137	1.141624587	0.191088
CDK2AP1	269.657392	307.7948466	1.141429294	0.190841
ZHX3	2464.33837	2812.378183	1.14123053	0.19059
NFATC1	296.07281	337.7965104	1.140923783	0.190202
GRWD1	194.8137077	222.2345463	1.140754154	0.189988
MICU2	508.4967963	580.0321658	1.140680079	0.189894
TMEM167B	169.4989321	193.3440553	1.140680079	0.189894
PUDP	93.55460539	106.6725822	1.140217328	0.189309
ZNRF3	255.3490406	291.1272556	1.140114938	0.189179
ARL17B	161.7944352	184.4546734	1.140055733	0.189104
DDX5	10614.59546	12100.67105	1.140003035	0.189038
COG5	102.3597447	116.6731368	1.139834191	0.188824
PIGA	102.3597447	116.6731368	1.139834191	0.188824
NUDT1	34.11991491	38.8910456	1.139834191	0.188824
GLRX5	213.5246288	243.3468282	1.139666321	0.188611
SFMBT1	392.9293426	447.8026108	1.139651744	0.188593
TMED4	632.8693894	721.1511027	1.139494365	0.188394
CEP89	514.0000084	585.5880295	1.139276303	0.188118
RAB25	429.2505424	488.9160018	1.138999148	0.187767
NNT	867.306224	987.8325582	1.138966297	0.187725
FAM106B	92.94057174	16.66759097	5.576125062	2.479263
SASS6	616.5611143	111.1172731	5.548742305	2.472161
MIS12	362.6341951	65.55919115	5.531401298	2.467645
GNAI1	424.0413586	76.67091847	5.530667521	2.467454
RPSAP15	30.70358173	5.555863657	5.526338231	2.466324
ENSG000002	30.70358173	5.555863657	5.526338231	2.466324
S100A8	238.9900416	43.33573653	5.514848962	2.463321
NANOS1	48.95976547	8.889381852	5.507668169	2.461442
H2AC19	48.95976547	8.889381852	5.507668169	2.461442
ZNF92	214.0952456	38.8910456	5.505001018	2.460743
SNTB1	867.9985539	157.7865279	5.501094204	2.459719
PRTFDC1	237.3303885	43.33573653	5.4765514	2.453268
NINJ2-AS1	18.25618373	3.333518194	5.4765514	2.453268
VEZF1P1	18.25618373	3.333518194	5.4765514	2.453268
ISL1	133.6020719	24.44580009	5.465236211	2.450284
HNRNPA1L	97.0897044	17.7787637	5.460993015	2.449163
GPR180	321.1428684	58.89215477	5.453067046	2.447068
LAMTOR5-/	84.6423064	15.55641824	5.440989378	2.443869
FXN	42.3211532	7.77820912	5.440989378	2.443869
PWWP2A	1878.727272	345.5747195	5.436529832	2.442686
KRBA2	108.7072759	20.00110917	5.435062374	2.442297
PERCC1	66.38612267	12.22290005	5.431290645	2.441295
VDR	24.06496947	4.444690926	5.414317861	2.43678
LINC02024	24.06496947	4.444690926	5.414317861	2.43678
MIR762HG	24.06496947	4.444690926	5.414317861	2.43678
PTMS	1256.357372	232.2351009	5.409851339	2.435589
LPL	546.8556855	101.1167186	5.408162896	2.435139
ZNF706	2117.717313	393.3551469	5.383728495	2.428606
CIB2	89.6212656	16.66759097	5.376977738	2.426795
PCYT1B	119.4950208	22.22345463	5.376977738	2.426795
SNCB	29.8737552	5.555863657	5.376977738	2.426795
ARMCX5-G	29.8737552	5.555863657	5.376977738	2.426795
POLD3	943.5127684	175.5652916	5.374141779	2.426034
EMC3-AS1	95.43005134	17.7787637	5.367642707	2.424289
LSM14A	268.0339703	50.00277291	5.360382128	2.422336
COX15	178.4127047	33.33518194	5.352084323	2.420101
ISY1	35.68254093	6.667036389	5.352084323	2.420101
SNRPE	225.7128171	42.22456379	5.345533424	2.418334
PLEKHA5	5154.052599	964.4979309	5.343767398	2.417857
ZBED3	118.6651943	22.22345463	5.339637615	2.416742
FAIM	355.9955828	66.67036389	5.339637615	2.416742
KCNK5	207.4566333	38.8910456	5.334303312	2.4153
RAB19	41.49132667	7.77820912	5.334303312	2.4153
SCART1	41.49132667	7.77820912	5.334303312	2.4153
WEE1	756.8017984	142.2301096	5.320967553	2.411689
RNF165	47.3001124	8.889381852	5.320967553	2.411689
FCGR3A	195.0092353	36.66870014	5.318138756	2.410921
SPESP1	100.4090105	18.88993643	5.315476359	2.410199
TPD52	1327.722453	250.0138646	5.310595297	2.408874
PPIAP22	235.6707355	44.44690926	5.302297492	2.406618
STX16	188.3706231	35.55752741	5.297629976	2.405347
EPHA8	135.2617249	25.55697282	5.29255659	2.403965
CPE	14370.9359	2716.817328	5.289621704	2.403165
ABTB3	792.4843394	150.0083187	5.282935946	2.40134
STK26	521.131063	98.8943731	5.26957244	2.397686
TBC1D31	1604.054689	304.4613284	5.268500592	2.397392
CAMK2N1	964.2584318	183.3435007	5.259299774	2.394871
ZNF114	146.0494699	27.77931829	5.257489344	2.394374
PALM2AKA	1457.175393	277.7931829	5.245540505	2.391091
RFWD3	850.5721967	162.2312188	5.242962502	2.390382
SFXN1	1595.756424	304.4613284	5.241245028	2.38991
ELF3-AS1	58.08785734	11.11172731	5.227617245	2.386154
GRIA2	29.04392867	5.555863657	5.227617245	2.386154
CPA2	23.23514293	4.444690926	5.227617245	2.386154
DGCR11	23.23514293	4.444690926	5.227617245	2.386154
AK1	11.61757147	2.222345463	5.227617245	2.386154
GLRX3P2	11.61757147	2.222345463	5.227617245	2.386154
ENSG000002	11.61757147	2.222345463	5.227617245	2.386154
PRKAR1AP	11.61757147	2.222345463	5.227617245	2.386154
ENSG000002	11.61757147	2.222345463	5.227617245	2.386154
RPS18P5	11.61757147	2.222345463	5.227617245	2.386154
CAPN1-AS1	11.61757147	2.222345463	5.227617245	2.386154
ENSG000002	11.61757147	2.222345463	5.227617245	2.386154
C2orf49-DT	11.61757147	2.222345463	5.227617245	2.386154
ENSG000002	11.61757147	2.222345463	5.227617245	2.386154
ENSG000002	11.61757147	2.222345463	5.227617245	2.386154
BCL2	546.025859	104.4502368	5.227617245	2.386154
ZNF514	75.51421454	14.44524551	5.227617245	2.386154
SLC25A12	5.808785734	1.111172731	5.227617245	2.386154
SLC34A1	5.808785734	1.111172731	5.227617245	2.386154
SYCP3	5.808785734	1.111172731	5.227617245	2.386154
RPS3AP5	5.808785734	1.111172731	5.227617245	2.386154
DIPK1C	5.808785734	1.111172731	5.227617245	2.386154
GGTA1	5.808785734	1.111172731	5.227617245	2.386154
SNORA37	5.808785734	1.111172731	5.227617245	2.386154
LINC01124	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
DNAJC27-A	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
UQCRFS1P1	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
RPL7AP22	5.808785734	1.111172731	5.227617245	2.386154
KRT18P4	5.808785734	1.111172731	5.227617245	2.386154
TMEM18-D1	5.808785734	1.111172731	5.227617245	2.386154
LINC02609	5.808785734	1.111172731	5.227617245	2.386154
MYCNOS	5.808785734	1.111172731	5.227617245	2.386154
PSIP1P1	5.808785734	1.111172731	5.227617245	2.386154
LINC01934	5.808785734	1.111172731	5.227617245	2.386154
LINC01473	5.808785734	1.111172731	5.227617245	2.386154
RBBP4P2	5.808785734	1.111172731	5.227617245	2.386154
TRIM7-AS2	5.808785734	1.111172731	5.227617245	2.386154
MRPL39	347.8030036	761.7807576	2.190265035	1.131105
ABCD3	729.725922	1598.245903	2.190200259	1.131063
CCT2	960.8608294	2104.440089	2.190161181	1.131037
COX7C	369.8158519	809.9106966	2.190037805	1.130956
ENSG000002	23.11349074	50.61941854	2.190037805	1.130956
ENSG000002	23.11349074	50.61941854	2.190037805	1.130956
TENT5A	332.3940097	727.7578698	2.189443397	1.130564
B4GALT5	548.1199233	1199.929167	2.189172691	1.130386
SIPA1L1	1128.158477	2468.733937	2.188286475	1.129802
SNRPC	225.6316953	493.7467874	2.188286475	1.129802
FIBP	236.6381195	517.8117568	2.188200945	1.129745
TP53	1624.548206	3554.147042	2.187775671	1.129465
TBCA	201.4175622	440.6378892	2.187683559	1.129404
RAB11FIP4	211.3233439	462.2133791	2.187232941	1.129107
ERP29	821.0792426	1795.744618	2.187053971	1.128989
SCARNA21	33.01927249	72.1949084	2.186447579	1.128589
TLDC2	11.00642416	24.06496947	2.186447579	1.128589
SMC3P1	11.00642416	24.06496947	2.186447579	1.128589
ENSG000002	11.00642416	24.06496947	2.186447579	1.128589
NPBWR1	11.00642416	24.06496947	2.186447579	1.128589
SMU1P1	31.91863007	69.7054288	2.183847761	1.126872
ADRA2A	127.6745203	278.8217152	2.183847761	1.126872
MTCL1	403.9357668	882.105605	2.183776921	1.126825
SOD1	2293.738796	5008.003129	2.18333628	1.126534
TMEM147	62.73661773	136.921378	2.182479435	1.125968
BROX	611.9571835	1335.190892	2.181837109	1.125543
ZNF511	30.81798766	67.2159492	2.18106224	1.125031
CENPX	40.7237694	88.79143907	2.180334492	1.124549
MIRLET7A1I	50.62955115	110.3669289	2.179891515	1.124256
FAM210B	411.6402637	897.0424826	2.179190331	1.123792
PPP5C	618.561038	1347.63829	2.178666627	1.123445
ATP2C1	3806.021476	8290.796895	2.178336866	1.123227
SEMA6C	158.4925079	345.2078379	2.178070385	1.123051
TSHR	19.81156349	43.15097974	2.178070385	1.123051
MAP3K14-AS	19.81156349	43.15097974	2.178070385	1.123051
UNC5CL	9.905781747	21.57548987	2.178070385	1.123051
NHEJ1	9.905781747	21.57548987	2.178070385	1.123051
ENSG000002	38.52248457	83.81247987	2.175676902	1.121464
NXPE3	191.5117804	416.5729197	2.175181698	1.121136
DHX9	3261.203479	7090.037901	2.174055666	1.120389
WNK3	629.5674621	1368.383954	2.173530298	1.12004
ZNF75A	336.7965794	731.9070024	2.173142624	1.119783
BPNT2	1054.415435	2290.321232	2.172124152	1.119107
NAP1L1	3299.725964	7165.552116	2.171559758	1.118732
NAA10	55.03212081	119.4950208	2.17136863	1.118605
TARDBP	1619.044994	3515.145195	2.171122611	1.118441
NHSL1	445.7601786	967.5777379	2.170623991	1.11811
SKA2	135.3790172	293.7585928	2.169897513	1.117627
UNC80	421.5460454	914.4688398	2.169321358	1.117244
TXNDC17	134.2783748	291.2691132	2.169143868	1.117126
DEPDC4	44.02569665	95.43005134	2.167598893	1.116098
ADCY2	255.3490406	553.4942978	2.167598893	1.116098
NIPAL1	70.44111464	152.6880821	2.167598893	1.116098
NDUFS1	35.22055732	76.34404107	2.167598893	1.116098
SNORA47	17.61027866	38.17202053	2.167598893	1.116098
ENSG000002	17.61027866	38.17202053	2.167598893	1.116098
PTPN2P1	8.80513933	19.08601027	2.167598893	1.116098
AK7	79.24625397	171.7740924	2.167598893	1.116098
DBNDD1	26.41541799	57.2580308	2.167598893	1.116098
FAM219A	88.0513933	190.8601027	2.167598893	1.116098
KMT5C	60.5353329	131.1125923	2.165885376	1.114957
SLC16A14	180.5053563	390.8482972	2.165300273	1.114567
CCDC167	42.92505424	92.94057174	2.165182395	1.114489
CDKN1B	539.314784	1167.565932	2.164906224	1.114305
GTPBP3	77.04496914	166.7951332	2.164906224	1.114305
DFFA	352.2055732	761.7807576	2.162886722	1.112958
TEP1	41.82441182	90.45109214	2.162638713	1.112793
RALGDS	33.01927249	71.36508187	2.161315998	1.11191
CDYL	361.0107125	780.0369414	2.160703033	1.111501
TUBB4B	2323.456141	5018.790874	2.160054062	1.111067
PIN4	159.5931504	344.3780113	2.157849573	1.109594
MYB	374.2184215	807.421217	2.157620177	1.109441
MVK	94.6552478	204.1373272	2.156640355	1.108786
NTMT1	47.3276239	102.0686636	2.156640355	1.108786
BBIP1	335.695937	723.6087371	2.155548094	1.108055
PSMB1	997.1820292	2149.250721	2.155324363	1.107905
ATP5PD	525.0064326	1131.053565	2.154361346	1.10726
ANKEF1	331.2933673	713.6508187	2.154135546	1.107109
TRIM2	53.9314784	116.1757147	2.154135546	1.107109
CFAP52	7.704496914	16.59653067	2.154135546	1.107109
PPATP1	7.704496914	16.59653067	2.154135546	1.107109
ENSG000002	7.704496914	16.59653067	2.154135546	1.107109
ENSG000002	7.704496914	16.59653067	2.154135546	1.107109
PKD1P2	38.52248457	82.98265334	2.154135546	1.107109
PCNP	488.6852328	1052.220044	2.153165215	1.106459
RPA1	922.3383449	1985.774894	2.152978791	1.106334
EFCAB11	144.1841565	310.3551235	2.152491168	1.106007
SPAG1	150.788011	324.4621745	2.151777004	1.105529
MYO1B	1659.768764	3569.913747	2.150850061	1.104907
SP5	29.71734524	63.89664307	2.150146406	1.104435
VPS33A	22.01284833	47.3001124	2.148750207	1.103498
ATP1B3	275.1606041	590.8364918	2.147242312	1.102485
SLC1A4	137.580302	295.4182459	2.147242312	1.102485
LRRC66	50.62955115	108.7072759	2.147111191	1.102397
ZBTB8A	14.30835141	30.70358173	2.145850409	1.10155
ENSG000002	14.30835141	30.70358173	2.145850409	1.10155
NXT2	78.14561156	167.6249597	2.145033565	1.101
RMND5A	695.6060071	1492.028107	2.144932752	1.100932
RPL39P3	41.82441182	89.6212656	2.142797991	1.099496
SPAST	589.9443351	1263.82581	2.142279763	1.099147
MTPAP	379.7216336	813.2300027	2.141647804	1.098721

SEPHS2	498.5910146	567.8092658	1.138827715	0.18755
GPER1	51.73019357	58.89215477	1.138448374	0.187069
GAPVD1	1510.081395	1718.984216	1.138338782	0.18693
LRRC59	440.2569665	501.1389019	1.138287273	0.186865
PER1	1821.563199	2073.448317	1.138279648	0.186855
PRICKLE1	397.3319123	452.2473017	1.138210367	0.186767
CDK18	172.8008594	196.6775735	1.138174742	0.186722
TLR2	250.9464709	285.571392	1.137977318	0.186472
RRAGA	528.3083598	601.1444477	1.13786662	0.186331
ERCC4	424.8479727	483.3601382	1.137724949	0.186152
TSC22D4	278.4625313	316.6842285	1.137259749	0.185562
FHOD3	801.2676791	911.1616398	1.137150123	0.185423
DAD1	453.4646755	515.5841474	1.136988558	0.185218
STARD8	122.1713082	138.8965914	1.136900255	0.185106
TMEM203	130.9764475	148.897146	1.136823825	0.185009
ZNF528	419.3447606	476.6931018	1.136757023	0.184924
RSBN1	823.2805274	935.6074399	1.136438199	0.184519
CASP7	227.8329802	258.9032464	1.136372997	0.184436
CTTNBP2NL	1019.194877	1157.841986	1.136035916	0.184008
TBX19	44.02569665	50.00277291	1.135763355	0.183662
SLC35D2	52.83083598	60.0033275	1.135763355	0.183662
SDSL	70.44111464	80.00443666	1.135763355	0.183662
XYLT1	35.22055732	40.00221833	1.135763355	0.183662
HNF4G	35.22055732	40.00221833	1.135763355	0.183662
GPX1P1	17.61027866	20.00110917	1.135763355	0.183662
LINC00571	17.61027866	20.00110917	1.135763355	0.183662
TFR2	8.80513933	10.00055458	1.135763355	0.183662
TMEM140	8.80513933	10.00055458	1.135763355	0.183662
MAJIN	8.80513933	10.00055458	1.135763355	0.183662
KCNJ5-AS1	8.80513933	10.00055458	1.135763355	0.183662
IGDCC3	8.80513933	10.00055458	1.135763355	0.183662
TMEM33	827.6830971	940.0521308	1.135763355	0.183662
LGI4	26.41541799	30.00166375	1.135763355	0.183662
SGK1	592.14562	672.2595025	1.135294225	0.183066
DAP3	742.933631	843.3801032	1.135202484	0.18295
SLC5A1	177.203429	201.1222644	1.134979529	0.182666
SASH1	1205.203446	1367.853632	1.134956623	0.182637
ATP2C1	3806.021476	4319.128407	1.134814513	0.182457
TEFM	141.9828717	161.1200461	1.134785092	0.182419
TRIO	4785.593226	5430.301139	1.134718494	0.182334
CCDC191	747.3362007	847.8247941	1.134462366	0.182009
TBC1D9	1769.833005	2006.777953	1.133879833	0.181268
PARP6	671.3918739	761.153321	1.133694569	0.181032
KHSRP	1236.021434	1401.188814	1.13362825	0.180948
ERLEC1	1191.995737	1351.186041	1.133549391	0.180847
DCLK1	125.4732355	142.2301096	1.133549391	0.180847
ZBTB45	439.1563241	497.8053837	1.133549391	0.180847
ZNF18	233.3361923	264.4591101	1.133382299	0.180635
DNMT3B	116.6680961	132.229555	1.133382299	0.180635
TMEM116	107.8629568	122.2290005	1.133187927	0.180387
DIDO1	3112.616753	3526.86225	1.13308593	0.180257
UQCRFS1	558.0257051	632.2572842	1.133025376	0.18018
FOXN2	198.1156349	224.4568918	1.132959001	0.180096
MAPK8	369.8158519	418.9121198	1.13275869	0.179841
PLAC8	45.12633907	51.11394565	1.132685405	0.179747
UBFD1	270.7580344	306.6836739	1.132685405	0.179747
AGFG2	208.0214167	235.5686191	1.132424838	0.179415
PARP9	1736.813733	1966.775735	1.132404528	0.179389
TMEM160	36.32119974	41.11339106	1.131939235	0.178797
ZCCHC24	435.8543969	493.3606928	1.131939235	0.178797
FAM204A	236.6381195	267.7926283	1.13165465	0.178434
ABAT	264.1541799	298.9054648	1.131556824	0.178309
DOCK7	2232.10282	2524.584446	1.131034119	0.177642
TET3	750.6381279	848.9359668	1.130952366	0.177538
ZNF337	1218.411155	1377.854187	1.130861435	0.177422
RPL13	1237.122076	1398.966469	1.1308233	0.177374
HTR7P1	27.51606041	31.11283648	1.130715517	0.177236
RCAN1	46.22698148	52.22511838	1.129754025	0.176009
SEPHS1	464.4710997	524.4735292	1.12918442	0.175281
ZFYVE21	186.0085684	210.0116462	1.129042861	0.1751
AGAP3	615.2591107	694.4829571	1.128765011	0.174745
UBE2Z	1026.899374	1158.953159	1.128594668	0.174527
RTN3	1728.008594	1950.108144	1.128529193	0.174444
RAVER2	607.5546138	685.5935753	1.128447649	0.174339
DUSP22	205.8201318	232.2351009	1.128340065	0.174202
NAP1L5	37.42184215	42.22456379	1.128340065	0.174202
ISLR2	18.71092108	21.1122819	1.128340065	0.174202
ENSG000002	18.71092108	21.1122819	1.128340065	0.174202
DBP	187.1092108	211.122819	1.128340065	0.174202
FOLR2	112.2655265	126.6736914	1.128340065	0.174202
PCNX4	1801.751635	2032.334926	1.127977289	0.173738
ANK3	4841.725989	5459.19163	1.127530067	0.173166
ZSCAN32	198.1156349	223.345719	1.127350293	0.172936
NHSL2	443.5588938	500.0277291	1.12730854	0.172882
SEMA4G	47.3276239	53.33629111	1.126958987	0.172435
GBGT1	47.3276239	53.33629111	1.126958987	0.172435
ENSG000002	47.3276239	53.33629111	1.126958987	0.172435
NBPF1	227.8329802	256.680901	1.126618722	0.171999
SFXN4	209.1220591	235.5686191	1.126464707	0.171802
IAH1	333.4946521	375.5763832	1.126184126	0.171443
TECPR2	648.2783832	730.0404846	1.1261219	0.171363
PELI1	286.1670282	322.2400921	1.126055975	0.171279
CCDC91	449.0621058	505.5835928	1.125865635	0.171035
ABL2	717.6188554	807.8225758	1.125698649	0.170821
ATPAF1	631.768747	711.1505481	1.125650092	0.170758
CD55	701.1092192	788.9326393	1.125263536	0.170263
ZKSCAN3	211.3233439	237.7909645	1.125247027	0.170242
ZMAT5	77.04496914	86.67147305	1.124946561	0.169856
TPK1	38.52248457	43.33573653	1.124946561	0.169856
PLEKHG4B	269.657392	303.3501557	1.124946561	0.169856
SPON2	897.0235693	1008.94484	1.124769599	0.16963
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
AFG3L2P1	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
PRR13P2	5.808785734	1.111172731	5.227617245	2.386154
ALG1L9P.1	5.808785734	1.111172731	5.227617245	2.386154
SDHCP4	5.808785734	1.111172731	5.227617245	2.386154
SLC39A13-A	5.808785734	1.111172731	5.227617245	2.386154
RACGAP1P	5.808785734	1.111172731	5.227617245	2.386154
LINC02691	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
CDK13-DT	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
AARSD1	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ZNF470-DT	5.808785734	1.111172731	5.227617245	2.386154
GAS5-AS1	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
SNURF	5.808785734	1.111172731	5.227617245	2.386154
LINC02930	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
SND1-IT1	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
WASH5P	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
CCDC15-DT	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
ENSG000002	5.808785734	1.111172731	5.227617245	2.386154
CSF2RA	5.808785734	1.111172731	5.227617245	2.386154
ACBD7	81.32300027	15.55641824	5.227617245	2.386154
KHDC1	40.66150013	7.77820912	5.227617245	2.386154
LEMD1	40.66150013	7.77820912	5.227617245	2.386154
PTGES3P1	40.66150013	7.77820912	5.227617245	2.386154
DUSP13	17.4263572	3.333518194	5.227617245	2.386154
ENSG000002	17.4263572	3.333518194	5.227617245	2.386154
SUGT1P4-S1	17.4263572	3.333518194	5.227617245	2.386154
LINC01569	17.4263572	3.333518194	5.227617245	2.386154
CACYBP	2622.251845	502.2500746	5.221008374	2.384328
PCNP	1052.220044	202.2334371	5.202997384	2.379343
RNA5SP202	259.7357049	50.00277291	5.194426025	2.376964
UCP2	1141.84131	220.0122008	5.189899949	2.375707
FANCB	356.8254093	68.89270935	5.179436441	2.372795
APOBEC3F	80.49317374	15.55641824	5.174274212	2.371357
STIL	2373.303885	458.9143381	5.171561855	2.3706
LRRFIP1P1	281.3111948	54.44746384	5.166653779	2.36923
CFAP68	338.5692256	65.55919115	5.164328901	2.368581
RET	1147.650096	222.2345463	5.164139036	2.368528
CXCR2	63.06681654	12.22290005	5.159726112	2.367294
CNFN	246.4584804	47.78042745	5.158147249	2.366853
SNRPF	1415.684066	274.4596647	5.158076935	2.366833
NOL4	710.3315126	137.7854187	5.155346039	2.366069
DNAH2	942.6829419	183.3435007	5.14162181	2.362223
CNTRL	1284.571474	250.0138646	5.13800095	2.361207
COL4A1	4040.425391	788.9326393	5.121381965	2.356533
SMC3	4399.74028	861.1588669	5.109092467	2.353067
CHML	851.4020232	166.6759097	5.108128851	2.352795
CDKN2D	283.8006744	55.55863657	5.108128851	2.352795
ENSG000002	34.02288787	6.667036389	5.103150168	2.351388
PIK3R3	130.2827657	25.55697282	5.097738556	2.349857
ENSG000002	62.23699	12.22290005	5.091834979	2.348186
ENSG000002	28.21410213	5.555863657	5.078256753	2.344333
ENSG000002	28.21410213	5.555863657	5.078256753	2.344333
PEDS1	169.2846128	33.33518194	5.078256753	2.344333
CD59	84.6423064	16.66759097	5.078256753	2.344333
SDC1	2076.225986	408.9115652	5.077445011	2.344103
ARSJ	1038.112993	204.4557826	5.077445011	2.344103
RASIP1	78.83352067	15.55641824	5.067588146	2.341299
ADD2	275.5024091	54.44746384	5.059967713	2.339128
GBE1	1853.832476	366.6870014	5.055626375	2.33789
OIP5	117.8353677	23.33462736	5.049807135	2.336228
CNIH2	89.6212656	17.7787637	5.04091663	2.333686
EEF1AKMT:	44.8106328	8.889381852	5.04091663	2.333686
EIF3J-DT	22.4053164	4.444690926	5.04091663	2.333686
ENSG000002	22.4053164	4.444690926	5.04091663	2.333686
PHF19	470.5116444	93.33850944	5.04091663	2.333686
CFAP210	67.2159492	13.33407278	5.04091663	2.333686
CEP97	1595.756424	316.6842285	5.03895136	2.333124
PFN4	39.00184707	7.77820912	5.014245113	2.326033
RPF1	2199.040313	438.9132289	5.010193743	2.324866
STMN3	733.5666555	146.6748005	5.001313469	2.322307
XK	72.1949084	14.44524551	4.997831872	2.321302
DNM1	993.3023604	198.8999189	4.993980721	2.32019
ENSG000002	49.789592	10.00055458	4.978683091	2.315764
C2orf49	199.158368	40.00221833	4.978683091	2.315764
CHAC2	82.98265334	16.66759097	4.978683091	2.315764
P2RY11	33.19306133	6.667036389	4.978683091	2.315764
SEMA3G	27.51606041	58.91768387	2.141210733	1.098427
UGCG	675.7944436	1446.387648	2.140277508	1.097798
INTS2	422.6466879	904.5109214	2.140111226	1.097686
NASP	1164.479676	2491.96908	2.139985034	1.097601
SDCBP	646.0770984	1382.491005	2.139823572	1.097492
HCCS	115.5674537	247.2883069	2.139774642	1.097459
PRPSAP2	319.1863007	682.947237	2.139650842	1.097375
SEZ6L	40.7237694	87.131786	2.139580576	1.097328
RBSN	40.7237694	87.131786	2.139580576	1.097328
LSM11	40.7237694	87.131786	2.139580576	1.097328
UQCC2	148.5867262	317.8235623	2.138976814	1.096921
DERL1	416.0428334	889.5740438	2.138178986	1.096383
RUSC1	106.7623144	228.2022967	2.137479859	1.095911
PRXL2A	547.0192809	1169.225586	2.137448581	1.09589
MGAT5	580.0385534	1239.760841	2.137376617	1.095841
LRRIQ3	19.81156349	42.3211532	2.136184417	1.095036
SCD5	257.5503254	550.1749916	2.136184417	1.095036
RAB5C	52.83083598	112.8564085	2.136184417	1.095036
SLC16A12	6.603854498	14.10705107	2.136184417	1.095036
PLCL2	6.603854498	14.10705107	2.136184417	1.095036
TRIM72	6.603854498	14.10705107	2.136184417	1.095036
RNF32-DT	6.603854498	14.10705107	2.136184417	1.095036
RPS3AP37	6.603854498	14.10705107	2.136184417	1.095036
ATF4P3	6.603854498	14.10705107	2.136184417	1.095036
CTDNEP1P1	6.603854498	14.10705107	2.136184417	1.095036
LUCAT1	6.603854498	14.10705107	2.136184417	1.095036
HNRNPA3P1	6.603854498	14.10705107	2.136184417	1.095036
LINC00663	6.603854498	14.10705107	2.136184417	1.095036
ENSG000002	6.603854498	14.10705107	2.136184417	1.095036
PIANP	13.207709	28.21410213	2.136184417	1.095036
ENSG000002	13.207709	28.21410213	2.136184417	1.095036
RSRC1	302.6766645	646.4348695	2.135727479	1.094728
KDM3A	985.0749626	2103.610262	2.135482417	1.094562
NCAPD3	948.7537628	2025.606568	2.135018218	1.094248
CSTF3	619.6616804	1321.913668	2.133282902	1.093075
MRPL17	219.0278408	467.1923383	2.133027183	1.092902
CDH10	128.7751627	274.6725825	2.132962419	1.092859
DERL2	154.0899383	328.6113072	2.132594191	1.092609
PEMT	121.0706658	258.0760519	2.131615038	1.091947
NBDY	178.3040714	380.0605523	2.13153042	1.09189
CCDC91	449.0621058	956.789993	2.130640685	1.091287
MLF2	562.4282747	1198.269514	2.130528581	1.091211
DUSP1	282.865101	602.4540632	2.12982818	1.090737
LINC00467	18.71092108	39.8316736	2.128792775	1.090036
TMEM45A	49.52890873	105.3879697	2.127807223	1.089367
ARPC3	222.3297681	473.001124	2.127475453	1.089142
UBXN2A	283.9657434	604.1137163	2.127417586	1.089103
DPYSL2	1140.265543	2425.582957	2.127208852	1.088962
CCHCR1	30.81798766	65.55629614	2.127208852	1.088962
TRPM2	147.4860838	313.6744296	2.126806961	1.088689
HILPDA	24.21413316	51.44924507	2.12476097	1.087301
MRPL28	144.1841565	306.2059908	2.123714548	1.08659
MRM3	83.64882364	177.5828781	2.122957268	1.086075
RFXAP	41.82441182	88.79143907	2.122957268	1.086075
G6PD	302.6766645	642.2857368	2.122019343	1.085438
PRKRA	604.2526865	1282.081994	2.121764657	1.085265
SERPINI1	58.33404806	123.6441535	2.119588089	1.083784
SH3GLB1	680.1970133	1441.408688	2.119104701	1.083455
ZNF675	278.4625313	590.0066652	2.118800912	1.083248
KLK11	220.1284833	466.3625118	2.11859231	1.083106
CCM2L	23.11349074	48.95976547	2.118233287	1.082861
LAMTOR5	427.0492575	904.5109214	2.118048224	1.082735
TRMT12	195.9143501	414.9132667	2.117829891	1.082587
AIP	217.9271984	461.3835526	2.11714534	1.08212
ZBTB26	285.0663858	603.2838898	2.116292624	1.081539
EIF4A1	34.11991491	72.1949084	2.115917012	1.081283
PCGF5	355.5075005	751.8228392	2.114787559	1.080513
GEMIN6	66.03854498	139.4108576	2.111052835	1.077963
CKMT1B	33.01927249	69.7054288	2.111052835	1.077963
MGAT3	16.50963624	34.8527144	2.111052835	1.077963
PTP4A2P1	11.00642416	23.23514293	2.111052835	1.077963
MSX1	5.503212081	11.61757147	2.111052835	1.077963
DCSTAMP	5.503212081	11.61757147	2.111052835	1.077963
UGT2B7	5.503212081	11.61757147	2.111052835	1.077963
ARL4AP5	5.503212081	11.61757147	2.111052835	1.077963
SEPTIN7-DT	5.503212081	11.61757147	2.111052835	1.077963
AQP7B	5.503212081	11.61757147	2.111052835	1.077963
THOC1-DT	5.503212081	11.61757147	2.111052835	1.077963
GEMIN7-AS1	5.503212081	11.61757147	2.111052835	1.077963
ENSG000002	5.503212081	11.61757147	2.111052835	1.077963
ENSG000002	5.503212081	11.61757147	2.111052835	1.077963
ENSG000002	5.503212081	11.61757147	2.111052835	1.077963
ENSG000002	5.503212081	11.61757147	2.111052835	1.077963
RPL23AP7.1	5.503212081	11.61757147	2.111052835	1.077963
PLEK2	77.04496914	162.6460005	2.111052835	1.077963
TIMM50	252.0471133	531.9188079	2.110394366	1.077513
EIF4EBP1	289.4689555	610.7523286	2.109906147	1.077179
DSP	34600.89564	72994.86118	2.10962346	1.076986
TMEM68	341.1991491	719.4596044	2.108620747	1.0763
CRLF3	312.5824462	658.8822675	2.107867142	1.075784
SEPTIN3	96.85653263	204.1373272	2.107625801	1.075619
NXT1	128.7751627	271.3532764	2.107186438	1.075318
DNAJA3	74.84368431	157.6670413	2.10661785	1.074929
RPS21	614.1584683	1293.699566	2.10645889	1.07482
NONO	2195.781621	4623.793444	2.105761976	1.074342
GNAI1	201.4175622	424.0413586	2.105284931	1.074016
CEP76	152.9892959	321.9726949	2.104543936	1.073508
TRA2B	1744.51823	3670.322757	2.103917686	1.073078
STK3	1026.899374	2160.038466	2.103456794	1.072762
ACTL10	20.91220591	43.98080627	2.103116546	1.072529
ZNF34	182.7066411	384.2096849	2.102877501	1.072365

AMPD2	424.8479727	477.8042745	1.124647651	0.169473
ARPC3	222.3297681	250.0138646	1.124518173	0.169307
EBF4	493.0878025	554.475193	1.124495861	0.169278
EXOSC10	1102.843701	1240.068768	1.124428391	0.169192
CEP70	1056.61672	1187.84365	1.124195394	0.168893
TCTN2	553.6231354	622.2567296	1.123971687	0.168606
RASGRF2	223.4304105	251.1250373	1.123951913	0.16858
DTX3L	1196.398307	1344.519005	1.123805507	0.168392
NR1D2	827.6830971	930.0515762	1.123680766	0.168232
POLG2	263.0535375	295.5719466	1.123618976	0.168153
KARS1	1014.792308	1140.063222	1.12344488	0.167929
CTPS1	380.822276	427.8015016	1.123362599	0.167824
SPDEF	870.6081513	977.8320037	1.123159716	0.167563
PRKACB	704.4111464	791.1549848	1.123143762	0.167543
TBC1D5	922.3383449	1035.612986	1.12281246	0.167117
TTL	294.9721676	331.129474	1.122578705	0.166817
POLH	314.7837311	353.3529286	1.122526019	0.166749
BZW1	964.1627567	1082.28224	1.122509901	0.166728
TMEM109	413.8415485	464.4702017	1.122338256	0.166508
EBI3	29.71734524	33.33518194	1.121741585	0.16574
HS6ST1	287.2676707	322.2400921	1.121741585	0.16574
RAD51	19.81156349	22.22345463	1.121741585	0.16574
RRN3	19.81156349	22.22345463	1.121741585	0.16574
RASSF7	19.81156349	22.22345463	1.121741585	0.16574
RIGI	19.81156349	22.22345463	1.121741585	0.16574
SCN10A	19.81156349	22.22345463	1.121741585	0.16574
ENSG000002	19.81156349	22.22345463	1.121741585	0.16574
FCRL2	9.905781747	11.11172731	1.121741585	0.16574
CFAP74	9.905781747	11.11172731	1.121741585	0.16574
GTF2H2	9.905781747	11.11172731	1.121741585	0.16574
NIPAL4	9.905781747	11.11172731	1.121741585	0.16574
RNF152P1	9.905781747	11.11172731	1.121741585	0.16574
RPS10P3	9.905781747	11.11172731	1.121741585	0.16574
ENSG000002	9.905781747	11.11172731	1.121741585	0.16574
RBBP4	1559.610304	1748.985879	1.121424932	0.165333
SCYL2	1621.246279	1817.878589	1.121284664	0.165153
ATL3	1186.492525	1330.07376	1.121013181	0.164803
CSNK1G2	598.7494745	671.1483298	1.120916775	0.164679
SS18L1	260.8522527	292.2384284	1.120321659	0.163913
XPO4	562.4282747	630.0349387	1.120204952	0.163763
TMEM19	70.44111464	78.89326393	1.119988863	0.163484
FAM120AOS	342.2997915	383.3545923	1.119938142	0.163419
ZSCAN9	201.4175622	225.5680645	1.119902664	0.163373
SRRT	1623.447564	1817.878589	1.119764278	0.163195
CHMP7	233.3361923	261.1255919	1.119095968	0.162334
IPO8	1856.783756	2077.893008	1.119081854	0.162316
MEA1	314.7837311	352.2417559	1.118996063	0.162205
ZBTB26	285.0663858	318.9065739	1.118709851	0.161836
NUP35	102.3597447	114.4507913	1.118123063	0.161079
CHAF1A	399.5331971	446.691438	1.118033348	0.160963
GLG1	3567.182071	3987.998933	1.117968989	0.16088
CWC15	605.353329	676.7041934	1.117866477	0.160748
TRIM11	184.9079259	206.678128	1.117735365	0.160579
SLC7A7	92.45396297	103.339064	1.117735365	0.160579
LURAP1	30.81798766	34.44635467	1.117735365	0.160579
TAFA2	30.81798766	34.44635467	1.117735365	0.160579
ZNF202	154.0899383	172.2317734	1.117735365	0.160579
HECTD4	10073.07939	11258.40211	1.11767233	0.160497
KIF13A	2972.835166	3321.295294	1.117214749	0.159907
MBTPS1	2101.126373	2346.796809	1.116923208	0.15953
RALGPS2	530.5096447	592.2550659	1.116388876	0.15884
GSK3A	478.7794511	534.4740838	1.116326281	0.158759
ZNF587	990.5781747	1105.616868	1.116132877	0.158509
STX4	219.0278408	244.4580009	1.116104692	0.158472
GSTK1	365.4132822	407.8003924	1.115997727	0.158334
YJEFN3	62.73661773	70.00388208	1.115837682	0.158127
POP1	178.3040714	198.8999189	1.115509687	0.157703
KIAA0825	367.614567	410.0227379	1.11536042	0.15751
NAE1	283.9657434	316.6842285	1.115219831	0.157328
RTL8A	495.2890873	552.2528475	1.115011135	0.157058
RDH11	2065.905815	2303.461072	1.114988425	0.157029
PLAA	1075.327641	1198.955377	1.114967506	0.157002
SP110	706.6124313	787.8214666	1.114927267	0.15695
CREM	232.2355498	258.9032464	1.114830381	0.156824
MRTO4	105.661672	117.7843095	1.1147307	0.156695
RAB5C	52.83083598	58.89215477	1.1147307	0.156695
MCU	380.822276	424.4679834	1.114609124	0.156538
TRIM66	465.5717421	518.9176656	1.114581532	0.156502
MCM3	487.5845904	543.3634657	1.114398355	0.156265
ZBTB8OS	191.5117804	213.3451644	1.114005436	0.155756
TOM1L2	1021.396162	1137.840877	1.114005436	0.155756
CHADL	31.91863007	35.55752741	1.114005436	0.155756
ARAF	819.9786001	913.3839852	1.113911979	0.155635
WDR45B	961.9614718	1071.170513	1.113527459	0.155137
MIEF1	267.4561072	297.794292	1.113432388	0.155014
GALNT6	42.92505424	47.78042745	1.113112803	0.1546
ST3GAL4	150.788011	167.7870824	1.1127349	0.15411
STIM2	691.2034374	768.9315302	1.112453279	0.153745
NOL9	368.7152095	410.0227379	1.112030986	0.153197
SHOC2	1259.134924	1400.077642	1.111936151	0.153074
NBEAL1	3176.454013	3531.306941	1.111713541	0.152785
DTNBP1	241.0406892	267.7926283	1.110985159	0.15184
TTC14	757.2419824	841.1577577	1.110817648	0.151622
HSD17B4	2525.974345	2805.711147	1.110744118	0.151527
PSMG4	132.07709	146.6748005	1.110524169	0.151241
TMEM91	33.01927249	36.66870014	1.110524169	0.151241
PLD6	33.01927249	36.66870014	1.110524169	0.151241
ST6GALNAC	33.01927249	36.66870014	1.110524169	0.151241
TMEM80	88.0513933	97.78320037	1.110524169	0.151241
CRYBB1	11.00642416	12.22290005	1.110524169	0.151241
PRSS35	11.00642416	12.22290005	1.110524169	0.151241

PRKY	16.59653067	3.333518194	4.978683091	2.315764
FAM163B	16.59653067	3.333518194	4.978683091	2.315764
GBX2-AS1	16.59653067	3.333518194	4.978683091	2.315764
PRC1-AS1	16.59653067	3.333518194	4.978683091	2.315764
ENSG000002	16.59653067	3.333518194	4.978683091	2.315764
POLE3	386.6991645	77.7820912	4.971570687	2.313702
CHD4	126.9634596	25.55697282	4.967859867	2.312624
SOCS4	1410.705107	284.4602192	4.95923511	2.310118
SCLT1	313.6744296	63.33684569	4.952479496	2.308151
BARD1	2778.259234	561.1422294	4.951078511	2.307743
FTX	813.2300027	164.4535643	4.94504334	2.305983
SERPINE1	318.6533888	64.44801842	4.944347345	2.30578
TMEM117	126.1336331	25.55697282	4.935390194	2.303164
TUBG1	2774.939928	562.2534021	4.935390194	2.303164
H2BC21	5045.345323	1023.390086	4.930031465	2.301597
HMGB1P5	448.9361546	91.11616398	4.927074791	2.300731
BRI3BP	569.2610019	115.5619641	4.926023943	2.300424
NEDD1	1614.012607	327.7959558	4.923833192	2.299782
CXCR4	935.2145031	190.0105371	4.921908635	2.299218
TMEM65	1421.492852	288.9049102	4.920279309	2.29874
NDUFV2	224.053164	45.55808199	4.917967443	2.298062
ILF3-DT	65.55629614	13.33407278	4.916449552	2.297617
IBSP	103.7283167	21.1122819	4.913174103	2.296655
LZTS1	190.8601027	38.8910456	4.907559047	2.295006
CHRNA3	38.17202053	7.77820912	4.907559047	2.295006
OSGEPL1	201.6478476	41.11339106	4.90467564	2.294158
TMEM171	223.2233375	45.55808199	4.899752749	2.292709
LINC00665	48.95976547	10.00055458	4.895705039	2.291517
CNEP1R1	157.6670413	32.22400921	4.892843727	2.290673
PHF6	1390.78927	284.4602192	4.889222379	2.289605
PKHD1L1	773.3983291	158.8977006	4.867272001	2.283113
ZBTB7C	589.1768387	121.1178277	4.864493112	2.282289
KATNAL1	615.7312878	126.6736914	4.860766912	2.281184
ENSG000002	43.15097974	8.889381852	4.854216014	2.279238
LINC02901	21.57548987	4.444690926	4.854216014	2.279238
ENSG000002	21.57548987	4.444690926	4.854216014	2.279238
RBM24	10.78774493	2.222345463	4.854216014	2.279238
ACOXL-AS1	10.78774493	2.222345463	4.854216014	2.279238
RNU6-2	10.78774493	2.222345463	4.854216014	2.279238
EDRF1-DT	10.78774493	2.222345463	4.854216014	2.279238
ENSG000002	10.78774493	2.222345463	4.854216014	2.279238
LINC02641	10.78774493	2.222345463	4.854216014	2.279238
LINC00852	10.78774493	2.222345463	4.854216014	2.279238
SNHG15	10.78774493	2.222345463	4.854216014	2.279238
DICER1-AS1	10.78774493	2.222345463	4.854216014	2.279238
GSK3B-DT	10.78774493	2.222345463	4.854216014	2.279238
TTC4	10.78774493	2.222345463	4.854216014	2.279238
ENSG000002	10.78774493	2.222345463	4.854216014	2.279238
SNORD3C	10.78774493	2.222345463	4.854216014	2.279238
ENSG000002	10.78774493	2.222345463	4.854216014	2.279238
ENSG000002	10.78774493	2.222345463	4.854216014	2.279238
C2orf69	679.6279308	140.0077642	4.854216014	2.279238
STAU2P1	64.7264696	13.33407278	4.854216014	2.279238
GPR3	32.3632348	6.667036389	4.854216014	2.279238
ZNF99	166.7951332	34.44635467	4.842170813	2.275654
KCTD12	1469.622791	304.4613284	4.826960449	2.271115
ADAM19	316.1639092	65.55919115	4.822571841	2.269803
OXR1	4070.299146	844.4912759	4.819823795	2.26898
TPM3	988.3234012	205.5669553	4.807793158	2.265375
SPCS2P4	122.8143269	25.55697282	4.805511505	2.26469
MEAK7	648.9243491	135.5630732	4.786881365	2.259086
ANKRD42-I	53.10889814	11.11172731	4.779535767	2.25687
POLR2M	26.55444907	5.555863657	4.779535767	2.25687
CDKN2A	663.0314002	138.8965914	4.773561348	2.255066
MED7	694.5648084	145.5636278	4.771554672	2.254459
KRT15	68.87560227	14.44524551	4.768046499	2.253398
SATL1	42.3211532	8.889381852	4.760865706	2.251224
OARD1	565.9416958	118.8954823	4.759993273	2.25096
MANF	702.0332472	147.7859733	4.750337475	2.24803
ZNF726	305.3761643	64.44801842	4.738332873	2.24438
ASAP1	5257.780915	1111.172731	4.73174041	2.242371
RNA5-8SN3	47.3001124	10.00055458	4.729748936	2.241764
SORCS2	346.8674909	73.33740027	4.729748936	2.241764
SNCG	31.53340827	6.667036389	4.729748936	2.241764
HINT2	15.76670413	3.333518194	4.729748936	2.241764
ZNF747	15.76670413	3.333518194	4.729748936	2.241764
KYAT1	15.76670413	3.333518194	4.729748936	2.241764
PLAC8L1	15.76670413	3.333518194	4.729748936	2.241764
RNF227	15.76670413	3.333518194	4.729748936	2.241764
ENSG000002	15.76670413	3.333518194	4.729748936	2.241764
ZNF37BP	141.9003372	30.00166375	4.729748936	2.241764
KIAA1549L	593.3259714	125.5625187	4.725343022	2.240419
ZNF37A	760.9509311	161.1200461	4.722881787	2.239667
RRP15	262.2251845	55.55863657	4.71979157	2.238723
CCNJ	199.158368	42.22456379	4.716647139	2.237762
ARPC5L	450.5958076	95.5608549	4.71527602	2.237342
ENSG000002	68.04577574	14.44524551	4.710600155	2.235911
DENR	889.5740438	188.8993643	4.709248477	2.235497
NABP2	313.6744296	66.67036389	4.704855521	2.23415
FANCD2	1064.667442	226.6792372	4.696801769	2.231679
STYX	448.106328	95.5608549	4.689224772	2.229349
ATP5MC2P4	20.74566333	4.444690926	4.667515398	2.222655
FLJ46284	20.74566333	4.444690926	4.667515398	2.222655
MTRFR	191.6899292	41.11339106	4.662469435	2.221094
SPP1	2963.310551	635.5908024	4.662293003	2.22104
CCP110	4019.679728	865.6035578	4.643788362	2.215302
TRAPPC2B	128.6231127	27.77931829	4.630175275	2.211067
ABCA13	25.72462253	5.555863657	4.630175275	2.211067
PTMAP5	25.72462253	5.555863657	4.630175275	2.211067
LINC02175	25.72462253	5.555863657	4.630175275	2.211067
ACAD9-DT	25.72462253	5.555863657	4.630175275	2.211067

PCDHGB5	234.4368347	492.9169608	2.102557653	1.072145
XPR1	773.7516187	1626.460005	2.102044075	1.071793
USP12	359.9100701	755.9719719	2.100446847	1.070696
SLC16A3	61.63597531	129.4529392	2.100282157	1.070583
C1QBP	403.9357668	848.0827171	2.09954846	1.070079
NAA40	127.6745203	268.0339703	2.099353651	1.069945
NAT1	56.13276323	117.8353677	2.099226209	1.069858
CSTPP1	395.1306275	828.9967068	2.098032016	1.069037
ENSG000002	25.31477557	53.10889814	2.097940706	1.068974
CHD1L	35.22055732	73.85456147	2.096916321	1.068269
GTF3C3	622.9636076	1305.317137	2.095334496	1.067181
PPP1R16A	179.4047139	375.9114196	2.095326324	1.067175
ZNF146	661.4860922	1385.810311	2.094995386	1.066947
MAP1LC3A	79.24625397	165.9653067	2.094298448	1.066467
LMX1B	9.905781747	20.74566333	2.094298448	1.066467
PLSCR2	9.905781747	20.74566333	2.094298448	1.066467
PSMD11	833.1863091	1744.295373	2.093523806	1.065933
MTOR	1737.914375	3637.959522	2.093290426	1.065772
MRPL47	221.2291257	463.0432056	2.09304812	1.065605
COMMD5	117.7687385	246.4584804	2.092732617	1.065388
LSM12	156.2912231	326.9516541	2.091938675	1.064841
SERGEF	175.0021442	365.9535012	2.091137242	1.064288
AGPAT2	175.0021442	365.9535012	2.091137242	1.064288
RANBP9	1766.531078	3692.728073	2.090383871	1.063768
ISCA1	188.2098532	393.3377768	2.089889398	1.063427
TTLL7	689.0021526	1439.749035	2.089614713	1.063237
MARS2	77.04496914	160.9863475	2.08951148	1.063166
ZNF766	682.3982981	1425.641984	2.089164038	1.062926
PAXBP1	1144.668113	2390.730243	2.088579402	1.062522
CDK2	234.4368347	489.5976547	2.088399015	1.062397
CSE1L	1931.627441	4033.786779	2.088284052	1.062318
ERICH3	28.61670282	59.7475104	2.087854452	1.062021
HHEX	14.30835141	29.8737552	2.087854452	1.062021
TAF1B	213.5246288	445.6168484	2.086957608	1.061401
HSDL1	108.9635992	227.3724701	2.086682817	1.061211
ZNF813	202.5182046	422.3817055	2.085648084	1.060496
APEX2	248.7451861	518.6415834	2.08503164	1.060069
NUTM2B-AS	112.2655265	234.0110824	2.084442925	1.059662
ZFP82	172.8008594	360.1447155	2.084160442	1.059466
MRPL36	275.1606041	573.4101346	2.083910727	1.059293
PRPS1	411.6402637	857.210809	2.082427023	1.058266
TMEM45B	46.22698148	96.25987787	2.082331028	1.058199
XRCC2	46.22698148	96.25987787	2.082331028	1.058199
C21orf91	479.8800935	999.1111462	2.082001649	1.057971
PPME1	843.0920909	1755.083118	2.081721721	1.057777
FYN	435.8543969	907.000401	2.080971094	1.057257
ARMC3	91.35332055	190.0302761	2.080168241	1.0567
FLT1	641.6745287	1334.361066	2.07949826	1.056235
VHL	895.9229269	1862.960567	2.079375928	1.056151
EIF5AL1	40.7237694	84.6423064	2.078449703	1.055508
C5orf22	370.9164943	770.9088495	2.078389237	1.055466
CHCHD2	266.3554647	553.4942978	2.078028691	1.055216
STOML2	297.1734524	617.3909408	2.07754406	1.054879
LRPPRC	3106.012899	6451.901297	2.077229396	1.054661
SYNCRIP	175.0021442	363.4640216	2.076911819	1.05444
ASH2L	858.5010847	1782.467394	2.076255261	1.053984
TXNDC16	548.1199233	1137.692177	2.075626389	1.053547
ST6GALNAC	111.164884	230.6917763	2.07522167	1.053265
ZNF48	230.034265	477.1502567	2.074257314	1.052595
NLN	304.8779493	632.3278184	2.074035921	1.052441
GTPBP4	679.0963709	1408.215627	2.073660952	1.05218
LINC00662	35.22055732	73.02473494	2.073355463	1.051967
FBXO10	8.80513933	18.25618373	2.073355463	1.051967
PLEKHD1	8.80513933	18.25618373	2.073355463	1.051967
BAZ2B-AS1	8.80513933	18.25618373	2.073355463	1.051967
SLC6A13	4.402569665	9.128091867	2.073355463	1.051967
SLC9A3	4.402569665	9.128091867	2.073355463	1.051967
EXD1	4.402569665	9.128091867	2.073355463	1.051967
KCNJ14	4.402569665	9.128091867	2.073355463	1.051967
LINC01560	4.402569665	9.128091867	2.073355463	1.051967
LAP3P2	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
PRKCH-AS1	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
MAP3K4-AS	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
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ENSG000002	4.402569665	9.128091867	2.073355463	1.051967
CCDC126	79.24625397	164.3056536	2.073355463	1.051967
AKR1C3	26.41541799	54.7685512	2.073355463	1.051967
HEIH	26.41541799	54.7685512	2.073355463	1.051967
ENSG000002	13.207709	27.3842756	2.073355463	1.051967
STPG3-AS1	13.207709	27.3842756	2.073355463	1.051967
ENSG000002	13.207709	27.3842756	2.073355463	1.051967
CACNG4	144.1841565	298.737552	2.071916632	1.050966
LINC00641	86.95075089	180.0723577	2.070969553	1.050306
MRPS25	169.4989321	351.0166236	2.070907582	1.050263
RUVBL2	302.6766645	626.5190327	2.069928429	1.049581
TENM3	444.6595362	920.2776255	2.06962305	1.049368
CNTRL	620.7623228	1284.571474	2.069345104	1.049174
RIDA	154.0899383	318.6533888	2.067970124	1.048215
ZDHHC12	140.8822293	291.2691132	2.067465249	1.047863
ENSG000002	102.3597447	211.605766	2.067275242	1.04773
IARS2	1554.107092	3212.258511	2.066947978	1.047502
SENP3	63.83726015	131.9424188	2.066855916	1.047438
KCTD5	148.5867262	307.0358173	2.066374468	1.047102

ENSG000002	11.00642416	12.22290005	1.110524169	0.151241
TADA2A	11.00642416	12.22290005	1.110524169	0.151241
AMZ2P1.1	11.00642416	12.22290005	1.110524169	0.151241
COL6A5	44.02569665	48.89160018	1.110524169	0.151241
ETF1	463.3704573	514.4729747	1.110284367	0.150929
ELMO2	585.5417655	650.0360479	1.110144632	0.150748
C2CD5	1456.149917	1615.645152	1.109532153	0.149951
GSK3B	1624.548206	1802.32217	1.109429787	0.149818
DMAP1	367.614567	407.8003924	1.109315106	0.149669
TMEM184C	814.4753881	903.3834307	1.109159889	0.149467
CCNL1	1564.012874	1734.540634	1.109032197	0.149301
CASTOR3P	212.4239863	235.5686191	1.108954893	0.149201
VAPA	1118.252695	1240.068768	1.108934299	0.149174
AIFM1	537.1134992	595.5885841	1.10886914	0.149089
VEGFB	325.7901552	361.1311377	1.108477748	0.14858
WDR47	484.2826632	536.6964293	1.108229697	0.148257
BIRC6	11063.65757	12260.67992	1.108194089	0.148211
CDK1	45.12633907	50.00277291	1.108061809	0.148038
SF3B3	1809.456132	2004.555608	1.107822164	0.147726
SHROOM3	2255.216311	2497.9163	1.107617167	0.147459
EXOSC7	249.8458285	276.6820101	1.107410965	0.147191
RASSF10	136.4796596	151.1194915	1.1072675	0.147004
GLP1R	34.11991491	37.77987287	1.1072675	0.147004
ARHGEF25	102.3597447	113.3396186	1.1072675	0.147004
NCR3LG1	57.23340565	63.33684569	1.106641217	0.146188
SIL1	286.1670282	316.6842285	1.106641217	0.146188
ADAM9	3981.02362	4404.688707	1.106421144	0.145901
RPL3	4923.173528	5446.96873	1.106393813	0.145865
IPP	424.8479727	470.0260654	1.106339433	0.145794
ABCA3	1160.077107	1283.404505	1.106309656	0.145755
TGFBR1	2177.070699	2407.911309	1.106032666	0.145394
JPT2	345.6017187	382.2434196	1.106022913	0.145381
CASP8	311.4818038	344.4635467	1.10588658	0.145203
UQCRHL	46.22698148	51.11394565	1.105716705	0.144982
PTK6	23.11349074	25.55697282	1.105716705	0.144982
FOXL2NB	23.11349074	25.55697282	1.105716705	0.144982
RIMS1	416.0428334	460.0255108	1.105716705	0.144982
BIRC2	856.2997999	946.7191672	1.10559312	0.144821
NCOA5	1078.629568	1192.288341	1.105373315	0.144534
CORO1A	104.5610295	115.5619641	1.105210656	0.144321
ZNF526	453.4646755	501.1389019	1.105133275	0.14422
RTN2	116.6680961	128.8960368	1.104809636	0.143798
GID8	363.2119974	401.133356	1.104405578	0.14327
ACSF3	199.2162773	220.0122008	1.104388676	0.143248
ERRFI1	657.0835225	725.5957936	1.104267218	0.143089
SPAG9	2430.218455	2683.482146	1.104214372	0.14302
HMGN2	316.9850159	350.0194104	1.104214372	0.14302
ZNF2	105.661672	116.6731368	1.104214372	0.14302
PDCD2L	35.22055732	38.8910456	1.104214372	0.14302
KCNAB3	35.22055732	38.8910456	1.104214372	0.14302
SOX4	540.4154264	596.6997568	1.104150118	0.142936
SUPV3L1	469.9743118	518.9176656	1.104140487	0.142924
ASB8	307.0792341	338.9076831	1.103648979	0.142281
USP32	2116.535367	2335.685081	1.103541721	0.142141
SYCP2	486.483948	536.6964293	1.103215083	0.141714
NFIB	4049.26345	4465.803208	1.102868031	0.14126
MLLT1	970.7666112	1070.05934	1.102282802	0.140494
ADO	132.07709	145.5636278	1.102111107	0.14027
SPRED2	408.3383364	450.0249562	1.10208843	0.14024
SLC25A44	168.3982897	185.5658462	1.101946145	0.140054
CHKA	529.4090022	583.365684	1.101918708	0.140018
C11orf65	24.21413316	26.66814555	1.101346283	0.139268
ZAN	12.10706658	13.33407278	1.101346283	0.139268
OXCT2	12.10706658	13.33407278	1.101346283	0.139268
MAD2L1P1	12.10706658	13.33407278	1.101346283	0.139268
GLA	121.0706658	133.3407278	1.101346283	0.139268
CCDC74B	36.32119974	40.00221833	1.101346283	0.139268
GPATCH8	2973.935809	3274.62604	1.101108514	0.138957
UROS	376.4197064	414.4674288	1.101077924	0.138917
WWP1	2833.05358	3119.061857	1.100954066	0.138754
XPO7	1391.212014	1531.196024	1.100620185	0.138317
DNAH14	1477.062123	1625.645706	1.100593997	0.138282
MYL6	1575.019298	1733.429461	1.100576649	0.13826
TMEM38B	122.1713082	134.4519005	1.100519447	0.138185
ABHD5	232.2355498	255.5697282	1.100476341	0.138128
DBT	563.5289171	620.0343841	1.10027075	0.137859
MAPKAP1	1461.653129	1607.866942	1.100033182	0.137547
ZNF276	283.9657434	312.2395375	1.099567623	0.136936
TMEM87A	914.6338479	1005.611322	1.099468737	0.136807
CABLES2	99.05781747	108.8949277	1.099306753	0.136594
TMEM45A	49.52890873	54.44746384	1.099306753	0.136594
TMEM255B	49.52890873	54.44746384	1.099306753	0.136594
ELAVL1	1314.167045	1444.524551	1.099194015	0.136446
GPATCH1	323.5888704	355.5752741	1.098848899	0.135993
SMG1	6635.773128	7290.404291	1.09865183	0.135734
RASGRP2	212.4239863	233.3462736	1.098493054	0.135526
IMPA2	137.580302	151.1194915	1.09840936	0.135416
FAM221A	100.1584599	110.0061004	1.098320607	0.135299
IQCB1	551.4218506	605.5891386	1.098232031	0.135183
TNS2	1632.252703	1791.210443	1.097385496	0.13407
PHKG2	202.5182046	222.2345463	1.097355898	0.134032
CYP46A1	25.31477557	27.77931829	1.097355898	0.134032
TIGIT	25.31477557	27.77931829	1.097355898	0.134032
ZNG1E	241.0406892	264.4591101	1.097155468	0.133768
ATM	2924.4069	3207.955676	1.096959413	0.13351
NF1	636.1713166	697.8164753	1.096900249	0.133432
ZNF891	407.237694	446.691438	1.096881366	0.133407
HLCS	611.9571835	671.1483298	1.096724326	0.133201
CEP44	191.5117804	210.0116462	1.096599101	0.133036
CFAP410	63.83726015	70.00388208	1.096599101	0.133036
GDAP2	640.5738863	702.2611663	1.096300023	0.132643
H1-4	3164.128572	683.3712298	4.630175275	2.211067
KCNH1	82.1528268	17.7787637	4.620840244	2.208155
PFN1P1	138.5810311	30.00166375	4.619111534	2.207615
ZNF713	343.5481848	74.44857301	4.614570447	2.206196
SEZ6L	87.131786	18.88993643	4.612603452	2.205581
TMEM167A	363.4640216	78.89326393	4.607034917	2.203839
LSM8	639.7962572	138.8965914	4.606277596	2.203601
PLEKHA8P1	61.40716347	13.33407278	4.605281859	2.203289
ZBTB8A	30.70358173	6.667036389	4.605281859	2.203289
TMEM198B	30.70358173	6.667036389	4.605281859	2.203289
PCA3	30.70358173	6.667036389	4.605281859	2.203289
FRG1FP	30.70358173	6.667036389	4.605281859	2.203289
CEP135	598.3049306	130.0072096	4.602090396	2.202289
CDC7	1366.7243	297.794292	4.58949126	2.198334
TRAPPC6B	423.211532	92.22733671	4.588786222	2.198113
LGI2	249.7777865	54.44746384	4.587500848	2.197708
RPS20P14	142.7301637	31.11283648	4.587500848	2.197708
ST8SIA5	71.36508187	15.55641824	4.587500848	2.197708
EEF1B2P6	35.68254093	7.77820912	4.587500848	2.197708
ROBO1	9050.088173	1974.553944	4.583358283	2.196405
ZNF273	112.026582	24.44580009	4.582651481	2.196183
VANGL2	234.0110824	51.11394565	4.578223799	2.194788
MNDA	117.0055412	25.55697282	4.578223799	2.194788
ENY2	1414.024413	308.9060193	4.577523015	2.194567
SYT4	559.3030835	122.2290005	4.575862368	2.194044
FBXL16	223.2233375	48.89160018	4.565678698	2.190829
HUNK	501.2152262	110.0061004	4.556249374	2.187847
CHRAC1	404.9553483	88.89381852	4.555495028	2.187608
SRRM3	50.61941854	11.11172731	4.555495028	2.187608
PHACTR1	222.3935109	48.89160018	4.548705915	2.185456
PPM1D	1076.285014	236.6797918	4.547430964	2.185052
ARL6IP6	742.6947474	163.3423915	4.546858537	2.18487
ITGB1P1	1080.434146	237.7909645	4.543629942	2.183845
RAB3A	378.4008992	83.33795486	4.540558979	2.18287
DYNLT1	766.7597168	168.8982552	4.539772871	2.18262
ZNF850	1094.541198	241.1244827	4.539320044	2.182476
RNASEH1	131.1125923	28.89049102	4.538261125	2.18214
UFM1	70.53525534	15.55641824	4.534157815	2.180835
LACC1	70.53525534	15.55641824	4.534157815	2.180835
ANO1	316.9937357	70.00388208	4.528230811	2.178947
GADD45A	170.9442659	37.77987287	4.524744339	2.177836
CCDC3	85.47213294	18.88993643	4.524744339	2.177836
CRACDL	572.580308	126.6736914	4.520120175	2.176361
MMAA	381.7202053	84.44912759	4.520120175	2.176361
DLK1	100.4090105	22.22345463	4.518154905	2.175734
DUSP7	205.7969803	45.55808199	4.51724417	2.175443
THAP1	461.3835526	102.2278913	4.513284454	2.174178
PCLO	9908.128808	2195.677317	4.512561445	2.173947
DPY30	596.6452775	132.229555	4.512193037	2.173829
RHOBTB3	1725.209363	383.3545923	4.500296585	2.17002
PCDH10	409.9343075	91.11616398	4.499029476	2.169614
HMGA1	514.4924507	114.4507913	4.495315801	2.168422
CRYBG3	8864.207029	1972.331598	4.494278263	2.168089
PTGES3	848.0827171	188.8993643	4.489600693	2.166587
GK4P	24.894796	5.555863657	4.480814782	2.163761
MED30	338.5692256	75.55974574	4.480814782	2.163761
SH2D3A	44.8106328	10.00055458	4.480814782	2.163761
RFC2	572.580308	127.7848641	4.480814782	2.163761
MLXIP	34.8527144	7.77820912	4.480814782	2.163761
KLF3P1	19.9158368	4.444690926	4.480814782	2.163761
IQCH-AS1	19.9158368	4.444690926	4.480814782	2.163761
CYCSP34	9.9579184	2.222345463	4.480814782	2.163761
PIWIL3	9.9579184	2.222345463	4.480814782	2.163761
ISCA1P1	9.9579184	2.222345463	4.480814782	2.163761
MTCO1P11	9.9579184	2.222345463	4.480814782	2.163761
RPS4XP11	9.9579184	2.222345463	4.480814782	2.163761
LINC01695	9.9579184	2.222345463	4.480814782	2.163761
CHD1-DT	9.9579184	2.222345463	4.480814782	2.163761
ENSG000002	9.9579184	2.222345463	4.480814782	2.163761
ENSG000002	9.9579184	2.222345463	4.480814782	2.163761
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ENSG000002	9.9579184	2.222345463	4.480814782	2.163761
LINC00921	9.9579184	2.222345463	4.480814782	2.163761
ENSG000002	9.9579184	2.222345463	4.480814782	2.163761
CLDN18	4.9789592	1.111172731	4.480814782	2.163761
NME8	4.9789592	1.111172731	4.480814782	2.163761
LHX5	4.9789592	1.111172731	4.480814782	2.163761
PRSS33	4.9789592	1.111172731	4.480814782	2.163761
CCL1	4.9789592	1.111172731	4.480814782	2.163761
KLRB1	4.9789592	1.111172731	4.480814782	2.163761
IL1RL2	4.9789592	1.111172731	4.480814782	2.163761
SERPINA12	4.9789592	1.111172731	4.480814782	2.163761
OTUD7A	4.9789592	1.111172731	4.480814782	2.163761
C5orf64	4.9789592	1.111172731	4.480814782	2.163761
TRIM49B	4.9789592	1.111172731	4.480814782	2.163761
RPL12P4	4.9789592	1.111172731	4.480814782	2.163761
OR7A5	4.9789592	1.111172731	4.480814782	2.163761
NYX	4.9789592	1.111172731	4.480814782	2.163761
ZNF849P	4.9789592	1.111172731	4.480814782	2.163761
RNA5SP188	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
PDCD4-AS1	4.9789592	1.111172731	4.480814782	2.163761
LINC02934	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
NCBP2-AS1	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
HSPE1P13	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
RPL23AP74	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
TOB1-AS1	4.9789592	1.111172731	4.480814782	2.163761
MYO1D	2361.978625	4878.55019	2.065450609	1.046457
UBAC1	345.6017187	713.6508187	2.06495159	1.046108
ADIPOR1	614.1584683	1267.974943	2.064572921	1.045843
TRIM28	1016.993593	2099.461129	2.064379898	1.045708
PUS1	108.9635992	224.8829905	2.063835925	1.045328
SNX4	396.2312699	817.3791354	2.062883971	1.044663
ZFAND5	770.4496914	1589.117811	2.062584785	1.044453
CABLES2	99.05781747	204.1373272	2.060789672	1.043197
ADAM21	16.50963624	34.02288787	2.060789672	1.043197
C8orf76	16.50963624	34.02288787	2.060789672	1.043197
ENSG000002	16.50963624	34.02288787	2.060789672	1.043197
CNOT7	778.1541883	1603.224862	2.060292017	1.042849
ZNF845	407.237694	838.9546252	2.06011044	1.042722
CISD1	139.7815869	287.9498071	2.059998127	1.042643
FAM83G	188.2098532	387.5289911	2.059026053	1.041962
MRPS14	171.7002169	353.5061032	2.058856474	1.041843
EIF1AD	138.6809445	285.4603275	2.058396188	1.041521
NUP58	758.3426248	1560.903709	2.058309342	1.04146
ZBBX	40.7237694	83.81247987	2.058072745	1.041294
ARL16	117.7687385	242.3093477	2.057501428	1.040893
FER1L6	24.21413316	49.789592	2.056220294	1.039995
ENSG000002	12.10706658	24.894796	2.056220294	1.039995
CPM	499.691657	1027.325248	2.055918353	1.039783
LYN	305.9785917	629.0085123	2.055727196	1.039649
MED7	337.8972218	694.5648084	2.055550515	1.039525
ZNF611	782.556758	1608.203822	2.055063489	1.039183
ZNF416	112.2655265	230.6917763	2.054876359	1.039052
TMSB4X	567.9314868	1166.736106	2.054360663	1.038689
ZNF749	235.5374771	483.788869	2.053978309	1.038421
ZBTB8OS	191.5117804	393.3377768	2.053856822	1.038336
ZSCAN5A	95.75589022	196.6688884	2.053856822	1.038336
APMAP	1568.415443	3220.556776	2.053382469	1.038002
RNF19A	1532.094243	3145.872388	2.053315193	1.037955
PANK2	616.3597531	1264.655637	2.051814108	1.0369
RAPGEF4	110.0642416	225.7128171	2.05073704	1.036143
USP13	27.51606041	56.42820427	2.05073704	1.036143
MTA2	957.5589022	1963.369578	2.050390397	1.035899
GPC1	638.3726015	1308.636443	2.049957094	1.035594
SNHG3	35.22055732	72.1949084	2.049794606	1.035479
ENSG000002	35.22055732	72.1949084	2.049794606	1.035479
TOR1A	484.2826632	992.4725339	2.049366226	1.035178
BAD	108.9635992	223.2233375	2.048604663	1.034642
SRGAP2	582.2398382	1192.460728	2.048057605	1.034256
ORMDL1	263.0535375	538.5574202	2.047330081	1.033744
AFG3L2	737.4304189	1509.454464	2.046911038	1.033448
ENSG000001	30.81798766	63.06681654	2.046428769	1.033108
ADAM29	15.40899383	31.53340827	2.046428769	1.033108
PIPSL	15.40899383	31.53340827	2.046428769	1.033108
PWP2	15.40899383	31.53340827	2.046428769	1.033108
RNF157-AS1	15.40899383	31.53340827	2.046428769	1.033108
LHX9	7.704496914	15.76670413	2.046428769	1.033108
HTR6	7.704496914	15.76670413	2.046428769	1.033108
CHST13	7.704496914	15.76670413	2.046428769	1.033108
PANK2-AS1	7.704496914	15.76670413	2.046428769	1.033108
SPCS3-AS1	7.704496914	15.76670413	2.046428769	1.033108
ENSG000002	7.704496914	15.76670413	2.046428769	1.033108
ENSG000002	7.704496914	15.76670413	2.046428769	1.033108
ENSG000002	7.704496914	15.76670413	2.046428769	1.033108
MARCHF6	2780.222744	5686.801233	2.045448066	1.032417
OLFML2A	88.0513933	180.0723577	2.045082434	1.032159
GTF3C4	584.4411231	1194.950208	2.04460323	1.031821
DCUN1D5	244.3426164	499.5555731	2.044488106	1.03174
KIAA2013	286.1670282	585.027706	2.044357485	1.031647
PKN1	713.2162858	1458.005219	2.044267985	1.031584
MYDGF	175.0021442	357.6552359	2.043719164	1.031197
HNRNPH3	2231.002178	4559.066974	2.043506286	1.031047
BRSK1	110.0642416	224.8829905	2.043197565	1.030829
PTK2	3658.535392	7474.247586	2.042961673	1.030662
CFAP91	34.11991491	69.7054288	2.042954357	1.030657
ELOF1	102.3597447	209.1162864	2.042954357	1.030657
PKD1P5	128.7751627	263.0550111	2.042746486	1.03051
NDUFS5	405.0364092	827.3370538	2.04262391	1.030424
LRRN2	234.4368347	478.8099098	2.042383444	1.030254
CLP1	86.95075089	177.5828781	2.042338638	1.030222
MRPL27	113.3661689	231.5216028	2.042245981	1.030157
C9orf153	26.41541799	53.93872467	2.041940986	1.029941
TMEM126A	101.2591023	206.6268068	2.04057514	1.028976
JAGN1	119.9700234	244.7988273	2.040499955	1.028923
PSMD5	509.5974387	1039.772646	2.04038044	1.028838
BRD7P2	18.71092108	38.17202053	2.040093076	1.028635
MUC19	224.5310529	458.0642464	2.040093076	1.028635
TRIM37	1061.019289	2164.187599	2.039725027	1.028375
TRUB2	148.5867262	302.8866847	2.038450489	1.027473
PAFAH1B1	1359.293384	2769.960968	2.037794784	1.027009
ALPL	92.45396297	188.3706231	2.037453204	1.026767
CALM1	2206.788045	4496.000158	2.037350242	1.026694
CADM4	258.6509678	526.9398487	2.037262235	1.026632
CPOX	103.4603871	210.7759395	2.037262235	1.026632
ZNF530	51.73019357	105.3879697	2.037262235	1.026632
TARS1	1259.134924	2564.993815	2.03710799	1.026522
DRAP1	346.7023611	706.1823799	2.036854833	1.026343
CISD2	147.4860838	300.3972051	2.036783386	1.026293
SF3B3	1809.456132	3685.259635	2.036667023	1.02621
LYPLA1	460.06853	936.8741562	2.036379572	1.026006
SLC16A13	22.01284833	44.8106328	2.035658091	1.025495
ENSG000002	11.00642416	22.4053164	2.035658091	1.025495
MTHFD2L	165.0963624	336.079746	2.035658091	1.025495
FKBP4	626.2655349	1274.613555	2.035260579	1.025214
ULK2	483.1820208	983.344442	2.035142865	1.02513
CASP9	113.3661689	230.6917763	2.034926103	1.024976
TLCD3A	94.6552478	192.5197557	2.033904725	1.024252

NRP2	551.4218506	604.4779659	1.096216926	0.132533
ARHGAP35	4449.897289	4878.048291	1.096215929	0.132532
SBNO2	90.25267814	98.8943731	1.095750011	0.131919
PRPF4	452.3640331	495.5830382	1.095540321	0.131643
TPRN	299.3747372	327.7959558	1.09493526	0.130846
ARSK	78.14561156	85.56030032	1.094882983	0.130777
GATC	78.14561156	85.56030032	1.094882983	0.130777
TMEM62	234.4368347	256.680901	1.094882983	0.130777
YTHDC2	782.556758	856.7141759	1.09476299	0.130619
NR3C2	613.0578259	671.1483298	1.094755342	0.130608
ABHD12	1461.653129	1600.088733	1.094711667	0.130551
TM2D2	287.2676707	314.461883	1.094665064	0.13049
CATSPERE	170.5995745	186.6770189	1.094240823	0.12993
RFC5	183.8072835	201.1222644	1.094201821	0.129879
TM2D3	184.9079259	202.2334371	1.093698045	0.129214
MMAB	171.7002169	187.7881916	1.093698045	0.129214
DLL4	39.62312699	43.33573653	1.093698045	0.129214
PKD1L3	26.41541799	28.89049102	1.093698045	0.129214
GABRA1	13.207709	14.44524551	1.093698045	0.129214
XK	13.207709	14.44524551	1.093698045	0.129214
CYSLTR2	13.207709	14.44524551	1.093698045	0.129214
ADGRF2	13.207709	14.44524551	1.093698045	0.129214
BLID	13.207709	14.44524551	1.093698045	0.129214
NPHP1	372.0171367	406.6892197	1.093200231	0.128558
BMPR1B	745.1349158	814.4896121	1.093076696	0.128395
SUCLG1	652.6809529	713.3728936	1.092988681	0.128278
SOX9	706.6124313	772.2650483	1.092911778	0.128177
CCDC51	93.55460539	102.2278913	1.092708273	0.127908
SCML1	173.9015018	190.0105371	1.092633101	0.127809
MTO1	334.5952946	365.5758286	1.092591063	0.127754
LIMK2	443.5588938	484.4713109	1.092236719	0.127286
SLC22A5	242.1413316	264.4591101	1.092168397	0.127195
GPR132	53.9314784	58.89215477	1.091981094	0.126948
RPS6	6775.554715	7398.188046	1.091894075	0.126833
USP14	783.6574004	855.6030032	1.091807469	0.126718
ZNF211	391.8287002	427.8015016	1.091807469	0.126718
ACO2	1068.723786	1166.731368	1.09170525	0.126583
APBA1	81.44753881	88.89381852	1.091424245	0.126212
PDE12	516.2012932	563.3645748	1.091366066	0.126135
SPCS2	272.9593192	297.794292	1.090984154	0.12563
ARFIP1	397.3319123	433.3573653	1.090668411	0.125213
BCAS2	315.8843735	344.4635467	1.090473527	0.124955
FBXL18	343.4004339	374.4652105	1.090462252	0.12494
VCPKMT	82.54818122	90.00499125	1.09033282	0.124769
DLGAP1	55.03212081	60.0033275	1.09033282	0.124769
FSIP1	27.51606041	30.00166375	1.09033282	0.124769
OTUD7B	689.0021526	751.1527665	1.090203802	0.124598
GAB1	1036.805156	1130.062668	1.089946998	0.124258
P4HB	5853.21637	6379.242651	1.089869612	0.124156
RPS2P46	83.64882364	91.11616398	1.089270118	0.123362
ZSCAN26	237.7387619	258.9032464	1.089024122	0.123036
OSER1	531.6102871	578.9209931	1.088995091	0.122997
SH2D4A	195.9143501	213.3451644	1.088971606	0.122966
AP5M1	685.7002254	746.7080755	1.088971606	0.122966
RPL7	1828.167053	1990.110362	1.088582336	0.122451
HAUS1	70.44111464	76.67091847	1.088439881	0.122262
CEP290	1750.021442	1904.550062	1.088300987	0.122078
PXN	1455.049274	1583.421142	1.0882251	0.121977
IVNS1ABP	1046.710938	1138.95205	1.088124723	0.121844
NDUFA10	835.387594	908.9392943	1.088045	0.121738
NR2C2	893.721642	972.27614	1.087895933	0.121541
TOE1	100.1584599	108.8949277	1.087226459	0.120652
PSMA1	28.61670282	31.11283648	1.087226459	0.120652
SERBP1P5	28.61670282	31.11283648	1.087226459	0.120652
UGT1A5	28.61670282	31.11283648	1.087226459	0.120652
NR1H4	14.30835141	15.55641824	1.087226459	0.120652
CDC45	14.30835141	15.55641824	1.087226459	0.120652
ENSG000002	14.30835141	15.55641824	1.087226459	0.120652
UBTF	1608.03857	1747.874707	1.086960685	0.1203
ERI2	562.4282747	611.1450023	1.086618561	0.119846
PSMA3	479.8800935	521.140011	1.08597964	0.118997
PISD	247.6445437	268.903801	1.085845854	0.118819
SAMD10	58.33404806	63.33684569	1.085761194	0.118707
ZNF285	160.6937928	174.4541188	1.085630725	0.118533
ZFAND2B	132.07709	143.3412824	1.085284983	0.118074
FBXW4	484.2826632	525.584702	1.085284983	0.118074
RELB	176.1027866	191.1217098	1.085284983	0.118074
SLC25A51	176.1027866	191.1217098	1.085284983	0.118074
DHX9	3261.203479	3539.08515	1.08520832	0.117972
MAP7D1	515.1006508	558.9198839	1.085069264	0.117787
PGM1	824.3811698	894.4940488	1.085049103	0.11776
MSH2	825.4818122	895.6052215	1.084948461	0.117627
YBX3P1	73.74304189	80.00443666	1.084908279	0.117573
RPL30	4722.856608	5123.617465	1.084855605	0.117503
YY1	730.8265644	792.2661575	1.084068637	0.116456
NAGA	329.0920825	356.6864468	1.083849979	0.116165
ZNF582	74.84368431	81.11560939	1.083800325	0.116099
SMARCA2	3712.46687	4021.334115	1.083197307	0.115296
SLC9A8	514.0000084	556.6975385	1.083069123	0.115125
SAE1	468.8736693	507.8059383	1.0830336	0.115078
NPNT	6115.169265	6622.589479	1.082977297	0.115003
BEX4	289.4689555	313.3507103	1.082501955	0.11437
NUP133	1220.61244	1321.184378	1.082394653	0.114227
MED8	335.695937	363.3534832	1.082388683	0.114219
CEP78	259.7516102	281.1267011	1.082290504	0.114088
MSRB2	199.2162773	215.5675099	1.082077794	0.113804
FBF1	46.22698148	50.00277291	1.081679385	0.113273
LSM14A	46.22698148	50.00277291	1.081679385	0.113273
B3GALT2	61.63597531	66.67036389	1.081679385	0.113273
TMEM132B	30.81798766	33.33518194	1.081679385	0.113273
CIB2	15.40899383	16.66759097	1.081679385	0.113273
GNB1-DT	4.9789592	1.111172731	4.480814782	2.163761
HMGA1P8	4.9789592	1.111172731	4.480814782	2.163761
ERI3-IT1	4.9789592	1.111172731	4.480814782	2.163761
RMDN2-AS1	4.9789592	1.111172731	4.480814782	2.163761
UOX	4.9789592	1.111172731	4.480814782	2.163761
LNCRNA-IU	4.9789592	1.111172731	4.480814782	2.163761
LINC02882	4.9789592	1.111172731	4.480814782	2.163761
ZBED6	4.9789592	1.111172731	4.480814782	2.163761
ZNF625	4.9789592	1.111172731	4.480814782	2.163761
MESTP2	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
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LINC02986	4.9789592	1.111172731	4.480814782	2.163761
ENSG000002	4.9789592	1.111172731	4.480814782	2.163761
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CACNG5	94.6002248	21.1122819	4.480814782	2.163761
ISLR2	94.6002248	21.1122819	4.480814782	2.163761
MINAR1	14.9368776	3.333518194	4.480814782	2.163761
SHISA7	14.9368776	3.333518194	4.480814782	2.163761
ZNF876P	14.9368776	3.333518194	4.480814782	2.163761
H3C14	14.9368776	3.333518194	4.480814782	2.163761
FRG1GP	14.9368776	3.333518194	4.480814782	2.163761
PXMP2	64.7264696	14.44524551	4.480814782	2.163761
ENSG000002	64.7264696	14.44524551	4.480814782	2.163761
PNMA2	521.9608895	116.6731368	4.473702377	2.161469
FAT3	2203.189446	493.3606928	4.465676894	2.158879
TSEN15	297.0778989	66.67036389	4.455921366	2.155724
ARF3	138.5810311	31.11283648	4.454143265	2.155148
LMCD1	257.2462253	57.78098203	4.45209161	2.154483
NUAK2	252.2672661	56.6698093	4.451528411	2.154301
PTENP1	93.77039827	21.1122819	4.441509389	2.15105
PAK5	177.5828781	40.00221833	4.439325756	2.150341
CFAP298	177.5828781	40.00221833	4.439325756	2.150341
NDST4	88.79143907	20.00110917	4.439325756	2.150341
H2AC15	560.9627366	126.6736914	4.428407591	2.146788
SSBP2	880.4459519	198.8999189	4.426577731	2.146192
DNAJC8	151.8582556	34.44635467	4.408543576	2.140302
DLEU1	48.95976547	11.11172731	4.406134535	2.139514
ENSG000002	48.95976547	11.11172731	4.406134535	2.139514
TEDC2	175.9232251	40.00221833	4.39783673	2.136794
BFAR	43.98080627	10.00055458	4.39783673	2.136794
DCAF11	126.9634596	28.89049102	4.394645267	2.135747
SHOX2	39.00184707	8.889381852	4.387464474	2.133387
RERGL	151.0284291	34.44635467	4.384453174	2.132397
ENSG000002	73.02473494	16.66759097	4.38124112	2.13134
REXO5	423.211532	96.67202764	4.377807545	2.130209
DNER	233.1812559	53.33629111	4.371906089	2.128262
UBE2V2	912.8091867	208.9004735	4.369588883	2.127498
PLXNA2	3474.483695	795.5996757	4.36712558	2.126684
SHB	126.1336331	28.89049102	4.365922095	2.126286
RFC5	877.9564723	201.1222644	4.365287329	2.126077
SUZ12	2210.657885	506.6947655	4.362898603	2.125287
ANAPC15	368.4429808	84.44912759	4.362898603	2.125287
SNORA53	87.131786	20.00110917	4.356347705	2.123119
ACAT2	1102.839463	253.3473828	4.353072255	2.122034
GOLGA7	667.1805328	153.3418369	4.350936093	2.121326
FAM13C	667.1805328	153.3418369	4.350936093	2.121326
CCDC15	546.025859	125.5625187	4.348637355	2.120563
LCT	53.10889814	12.22290005	4.345032516	2.119367
ENSG000002	53.10889814	12.22290005	4.345032516	2.119367
MAP3K20	1105.328942	254.4585555	4.343846644	2.118973
DCAF13	2216.466671	511.1394565	4.33632474	2.116473
NFE2L3	173.4337455	40.00221833	4.335603192	2.116233
GOLT1B	630.6681654	145.5636278	4.332594446	2.115231
GFI1	192.5197557	44.44690926	4.331454289	2.114851
ALDH3A1	48.12993894	11.11172731	4.331454289	2.114851
CD36	120.3248473	27.77931829	4.331454289	2.114851
CEBPG	461.3835526	106.6725822	4.325230935	2.112777
LIN7A	297.9077255	68.89270935	4.324227168	2.112442
SET	4154.941453	961.1644127	4.322820735	2.111973
IL1R2	134.4318984	31.11283648	4.320785682	2.111294
ENSG000002	67.2159492	15.55641824	4.320785682	2.111294
GPNMB	746.0140535	173.3429461	4.303688556	2.105574
TMSB4X	1166.736106	271.1261465	4.303296163	2.105442
MGST1	2252.149212	523.3623565	4.303231181	2.10542
RASSF8-AS	38.17202053	8.889381852	4.294114166	2.102361
SULT1B1	19.08601027	4.444690926	4.294114166	2.102361
CD28	19.08601027	4.444690926	4.294114166	2.102361
RABIF	119.9700234	243.9690008	2.033583006	1.024024
ATP6V1H	617.4603955	1255.527545	2.033373402	1.023875
KIF1B	1709.297673	3475.313522	2.033182153	1.023739
STYK1	61.63597531	125.3038065	2.032965422	1.023586
POP4	177.203429	360.1447155	2.032380059	1.02317
UBIAD1	104.5610295	212.4355925	2.031689947	1.02268
PLGRKT	53.9314784	109.5371024	2.031042086	1.02222
NDUFAF4	28.61670282	58.08785734	2.029858495	1.021379
MPG	186.0085684	377.5710727	2.029858495	1.021379
PRPSAP1	264.1541799	536.0679406	2.029375196	1.021036
YIF1B	89.15203572	180.9021843	2.029142496	1.02087
RTRAF	872.8094361	1770.849822	2.028907742	1.020703
WDR5	331.2933673	672.159492	2.028895107	1.020694
HARBI1	46.22698148	93.77039827	2.028477639	1.020397
MAPK8IP1	230.034265	466.3625118	2.027361062	1.019603
EFCAB7	190.411138	385.869338	2.026506128	1.018995
HMGB1P6	35.22055732	71.36508187	2.026233748	1.018801
ISY1	17.61027866	35.68254093	2.026233748	1.018801
MAPK7	263.0535375	532.7486344	2.025247938	1.018099
KLHDC3	626.2655349	1267.145116	2.023335224	1.016735
SHKBP1	201.4175622	407.4448279	2.022886304	1.016415
NCKAP5	405.0364092	819.0387884	2.022136208	1.01588
XRCC1	220.1284833	444.7870219	2.020579142	1.014769
C16orf89	27.51606041	55.59837774	2.020579142	1.014769
SPATA2L	27.51606041	55.59837774	2.020579142	1.014769
SLC47A1	55.03212081	111.1967555	2.020579142	1.014769
SLC25A3	1601.434716	3235.493654	2.020371871	1.014621
NFE2L3	85.85010847	173.4337455	2.020192503	1.014493
MED27	205.8201318	415.7430932	2.019934054	1.014308
ENSG000002	92.45396297	186.71097	2.019502074	1.014
GRM7	30.81798766	62.23699	2.019502074	1.014
RYR1	191.5117804	386.6991645	2.019192572	1.013779
MYO3B	34.11991491	68.87560227	2.018633471	1.013379
RNF138	208.0214167	419.8922259	2.018504789	1.013287
RPL30	4722.856608	9530.557736	2.017964661	1.012901
CPD	2903.494694	5857.745499	2.017481041	1.012555
NDUFB4	381.9229185	770.079023	2.016320534	1.011725
GCA	381.9229185	770.079023	2.016320534	1.011725
PTPN11	1088.53535	2193.231528	2.014846397	1.01067
HERC5	233.3361923	469.6818179	2.012897414	1.009274
KIF5C	269.657392	542.7065528	2.012578067	1.009045
SDF2	182.7066411	367.6131543	2.01204046	1.008659
INO80C	36.32119974	73.02473494	2.01052651	1.007573
ENSG000002	16.50963624	33.19306133	2.01052651	1.007573
SCLY	19.81156349	39.8316736	2.01052651	1.007573
ENSG000002	19.81156349	39.8316736	2.01052651	1.007573
ENSG000002	9.905781747	19.9158368	2.01052651	1.007573
MPO	6.603854498	13.27722453	2.01052651	1.007573
FAM184B	6.603854498	13.27722453	2.01052651	1.007573
RSPH14	6.603854498	13.27722453	2.01052651	1.007573
POLN	6.603854498	13.27722453	2.01052651	1.007573
IL1RN	6.603854498	13.27722453	2.01052651	1.007573
ITPKA	6.603854498	13.27722453	2.01052651	1.007573
MAT1A	6.603854498	13.27722453	2.01052651	1.007573
RN7SL832P	6.603854498	13.27722453	2.01052651	1.007573
ENSG000002	6.603854498	13.27722453	2.01052651	1.007573
ZNRD2-DT	6.603854498	13.27722453	2.01052651	1.007573
SNAI3-AS1	6.603854498	13.27722453	2.01052651	1.007573
ENSG000002	6.603854498	13.27722453	2.01052651	1.007573
ENSG000002	6.603854498	13.27722453	2.01052651	1.007573
FGF4	3.301927249	6.638612267	2.01052651	1.007573
GABRG2	3.301927249	6.638612267	2.01052651	1.007573
CFP	3.301927249	6.638612267	2.01052651	1.007573
CDH15	3.301927249	6.638612267	2.01052651	1.007573
TNNI3	3.301927249	6.638612267	2.01052651	1.007573
CFAP161	3.301927249	6.638612267	2.01052651	1.007573
DPPA2	3.301927249	6.638612267	2.01052651	1.007573
C7orf57	3.301927249	6.638612267	2.01052651	1.007573
TH	3.301927249	6.638612267	2.01052651	1.007573
ADGRD2	3.301927249	6.638612267	2.01052651	1.007573
CLDN7	3.301927249	6.638612267	2.01052651	1.007573
C1QTNF8	3.301927249	6.638612267	2.01052651	1.007573
KTI12	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ARID3C	3.301927249	6.638612267	2.01052651	1.007573
KRT81	3.301927249	6.638612267	2.01052651	1.007573
MAGEA12	3.301927249	6.638612267	2.01052651	1.007573
SUMO2P3	3.301927249	6.638612267	2.01052651	1.007573
PPP1R26-AS1	3.301927249	6.638612267	2.01052651	1.007573
LINC02937	3.301927249	6.638612267	2.01052651	1.007573
RFKP4	3.301927249	6.638612267	2.01052651	1.007573
RPS6KA2-IT1	3.301927249	6.638612267	2.01052651	1.007573
ING2-DT	3.301927249	6.638612267	2.01052651	1.007573
BACH1-IT3	3.301927249	6.638612267	2.01052651	1.007573
PRMT5-AS1	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
OR52H2P	3.301927249	6.638612267	2.01052651	1.007573
USP46-DT	3.301927249	6.638612267	2.01052651	1.007573
MAPK6P5	3.301927249	6.638612267	2.01052651	1.007573
CCDC90B-AS	3.301927249	6.638612267	2.01052651	1.007573
B3GAT1-DT	3.301927249	6.638612267	2.01052651	1.007573
TROAP-AS1	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
ENSG000002	3.301927249	6.638612267	2.01052651	1.007573
GABARAPL3	3.301927249	6.638612267	2.01052651	1.007573

ADAMTS16	15.40899383	16.66759097	1.081679385	0.113273
PBX2	15.40899383	16.66759097	1.081679385	0.113273
IQCD	77.04496914	83.33795486	1.081679385	0.113273
ENSG000002	184.9079259	200.0110917	1.081679385	0.113273
EYA3	1042.308368	1126.72915	1.080994055	0.112359
CDS2	844.1927333	912.2728125	1.080645185	0.111893
DNAJC16	767.1477642	828.9348577	1.08054132	0.111754
DIP2B	1479.263408	1597.866388	1.080177053	0.111268
RANBP9	1766.531078	1907.88358	1.080016991	0.111054
CELSR1	2945.319106	3180.176357	1.079739153	0.110683
ZNF618	779.2548307	841.1577577	1.079438618	0.110281
SF3B4	906.929351	978.9431764	1.079404008	0.110235
RPL10	2042.792325	2204.566699	1.079192766	0.109953
RNF208	63.83726015	68.89270935	1.079192766	0.109953
HSD3B7	31.91863007	34.44635467	1.079192766	0.109953
RERGL	31.91863007	34.44635467	1.079192766	0.109953
CLASP1	1710.398315	1845.657907	1.079080756	0.109803
MRS2	271.8586768	293.3496011	1.079051824	0.109764
SRSF3	751.7387703	811.1560939	1.079039855	0.109748
PCNX2	1953.640289	2107.894672	1.078957413	0.109638
MEX3A	144.1841565	155.5641824	1.07892702	0.109597
FAM222B	961.9614718	1037.835331	1.078874115	0.109527
DYNC2H1	3119.220608	3364.631031	1.078676841	0.109263
RBM14	920.13706	992.2772492	1.078401569	0.108895
CEP57L1	96.85653263	104.4502368	1.078401569	0.108895
ANXA9	48.42826632	52.22511838	1.078401569	0.108895
TEC	242.1413316	261.1255919	1.078401569	0.108895
EPHB4	807.8715336	871.1594214	1.078339049	0.108811
TENT5C	455.6659603	491.1383473	1.077847349	0.108153
MARVELD3	81.44753881	87.78264578	1.077781442	0.108065
TANC1	3355.858727	3616.867241	1.077776967	0.108059
KRI1	359.9100701	387.7992833	1.077489394	0.107674
ZNF594	559.1263475	602.2556204	1.0771369	0.107202
ACTR2	1201.901519	1294.516232	1.077056824	0.107094
RAG1	33.01927249	35.55752741	1.076871921	0.106847
ETV2	16.50963624	17.7787637	1.076871921	0.106847
TACO1	16.50963624	17.7787637	1.076871921	0.106847
KLRG2	16.50963624	17.7787637	1.076871921	0.106847
ENSG000002	16.50963624	17.7787637	1.076871921	0.106847
DDX11L2	16.50963624	17.7787637	1.076871921	0.106847
TMEM199	16.50963624	17.7787637	1.076871921	0.106847
TAGAP-AS1	16.50963624	17.7787637	1.076871921	0.106847
OSBPL2	778.1541883	837.8242395	1.076681527	0.106592
LARP4B	1542.000025	1660.092061	1.076583679	0.10646
MRPL13	199.2162773	214.4563372	1.076500073	0.106348
ZNF34	182.7066411	196.6775735	1.076466473	0.106303
DARS1	598.7494745	644.4801842	1.076377035	0.106184
ELOVL7	133.1777324	143.3412824	1.076315686	0.106101
FUS	3500.042884	3766.87556	1.076236973	0.105996
MAN2A2	751.7387703	808.9337485	1.076083582	0.10579
NSUN2	1121.554622	1206.733586	1.075947228	0.105607
RBMX	1561.811589	1680.09317	1.075733579	0.105321
GON4L	2893.588912	3112.394821	1.075617482	0.105165
PLCH1	220.1284833	236.6797918	1.075189309	0.104591
BACH2	84.74946605	91.11616398	1.075123753	0.104503
PAN3	881.6145755	947.8303399	1.075107384	0.104481
AHCYL1	2188.077124	2352.352672	1.075077586	0.104441
RENBP	68.23982981	73.33740027	1.074700809	0.103935
BAK1	102.3597447	110.0061004	1.074700809	0.103935
HUNK	102.3597447	110.0061004	1.074700809	0.103935
SPPL2A	512.899366	551.1416748	1.074561037	0.103747
TTLL12	514.0000084	552.2528475	1.074421865	0.103561
TBCK	883.8158603	948.9415126	1.073686902	0.102573
PAXBP1	1144.668113	1228.957041	1.073636128	0.102505
ZPR1	243.241974	261.1255919	1.073521924	0.102352
L3MBTL2	417.1434758	447.8026108	1.073497817	0.102319
CLEC16A	1182.089955	1268.959259	1.073487896	0.102306
PLAUR	86.95075089	93.33850944	1.073464099	0.102274
ARHGAP22	86.95075089	93.33850944	1.073464099	0.102274
ZFP69B	86.95075089	93.33850944	1.073464099	0.102274
CUL3	1637.755915	1757.875261	1.073343863	0.102112
ERMP1	644.976456	692.2606117	1.073311445	0.102069
NCAPD2	664.7880194	713.3728936	1.073083258	0.101762
PRELID1	332.3940097	356.6864468	1.073083258	0.101762
BIRC5	17.61027866	18.88993643	1.07266539	0.1012
RAB5IF	17.61027866	18.88993643	1.07266539	0.1012
POLR3G	17.61027866	18.88993643	1.07266539	0.1012
IL12RB2	52.83083598	56.6698093	1.07266539	0.1012
MNAT1	212.4239863	227.7904099	1.072338458	0.10076
RNF115	514.0000084	551.1416748	1.07226005	0.100655
HEXIM2-AS1	159.5931504	171.1206006	1.072230232	0.100615
STX12	392.9293426	421.1344652	1.071781665	0.100011
ZBTB5	446.860821	478.9154472	1.071732908	0.099945
RBBP4P1	71.54175706	76.67091847	1.071694652	0.099894
CARS2	519.5032205	556.6975385	1.071595933	0.099761
WLS	1384.60816	1483.415596	1.071361299	0.099445
CGGBP1	614.1584683	657.814257	1.071082287	0.099069
GNPAT	707.7130737	757.8198028	1.070800909	0.09869
RPS29	326.8907976	350.0194104	1.070753331	0.098626
KNSTRN	36.32119974	38.8910456	1.070753331	0.098626
TMEM170A	36.32119974	38.8910456	1.070753331	0.098626
ZNF552	603.1520441	645.591357	1.070362545	0.0981
NUTM2D	55.03212081	58.89215477	1.070141472	0.097802
HMGCS1	405.0364092	433.3573653	1.069922001	0.097506
MOCS3	166.1970049	177.787637	1.069740319	0.097261
VPS16	592.14562	633.3684569	1.069616046	0.097093
ATP5PO	278.4625313	297.794292	1.069423203	0.096833
BABAM2	540.4154264	577.8098203	1.069195645	0.096526
SCAMP5	37.42184215	40.00221833	1.068953745	0.096199
RND2	18.71092108	20.00110917	1.068953745	0.096199
POM121B	18.71092108	20.00110917	1.068953745	0.096199
CENPP	19.08601027	4.444690926	4.294114166	2.102361
HAUS3	19.08601027	4.444690926	4.294114166	2.102361
ZNF747-DT	19.08601027	4.444690926	4.294114166	2.102361
CCT6A	1749.274332	407.8003924	4.289535677	2.100821
CTDSPL2	1143.500963	266.6814555	4.287890812	2.100268
TAF12	433.1694504	101.1167186	4.28385589	2.09891
KCTD9	190.0302761	44.44690926	4.275444104	2.096074
GCNT1	963.4286052	225.5680645	4.271121479	2.094615
SPRTN	303.7165112	71.11505481	4.270776589	2.094498
INTS7	2408.986426	564.4757476	4.267652661	2.093443
H4C2	1488.708801	348.9082377	4.26676312	2.093142
C12orf75	478.8099098	112.2284459	4.266386352	2.093015
MAPK13	819.868615	192.2328825	4.26497592	2.092538
GADD45G	180.0723577	42.22456379	4.264635121	2.092422
ROGDI	80.49317374	18.88993643	4.261166998	2.091249
IKBIP	316.9937357	74.44857301	4.257888673	2.090138
APOLD1	283.8006744	66.67036389	4.256774043	2.089761
DNMT1	4851.165914	1140.063222	4.255172712	2.089218
EIF1B	420.7220524	98.8943731	4.254256731	2.088907
STK33	292.9287663	68.89270935	4.251955962	2.088127
RPL26	117.8353677	27.77931829	4.241837993	2.08469
H4C8	2152.570028	507.8059383	4.238961905	2.083711
TUBB8B	42.3211532	10.00055458	4.231880627	2.081299
METTL9	112.8564085	26.66814555	4.231880627	2.081299
PIANP	28.21410213	6.667036389	4.231880627	2.081299
FOXN4	28.21410213	6.667036389	4.231880627	2.081299
PRR34-AS1	28.21410213	6.667036389	4.231880627	2.081299
MFHAS1	14.10705107	3.333518194	4.231880627	2.081299
ADAM32	14.10705107	3.333518194	4.231880627	2.081299
PRDX6-AS1	14.10705107	3.333518194	4.231880627	2.081299
ENSG000002	14.10705107	3.333518194	4.231880627	2.081299
ZNF503-AS2	14.10705107	3.333518194	4.231880627	2.081299
ENSG000002	14.10705107	3.333518194	4.231880627	2.081299
BCKDHA	14.10705107	3.333518194	4.231880627	2.081299
ENSG000002	14.10705107	3.333518194	4.231880627	2.081299
CLGN	404.1255217	95.5608549	4.228986044	2.080312
ZDHHC13	944.342595	223.345719	4.228165192	2.080032
ZFP69	234.8409089	55.55863657	4.226901944	2.079601
RPA3	178.4127047	42.22456379	4.225329728	2.079064
CEP78	1187.481769	281.1267011	4.224009192	2.078613
PEX26	136.0915515	32.22400921	4.223296691	2.07837
NRAS	1154.288708	273.3484919	4.22277328	2.078191
RBM8A	201.6478476	47.78042745	4.220302295	2.077346
ARL5B	711.1613391	168.8982552	4.210590206	2.074022
MCM7	1922.708078	456.6919926	4.210076176	2.073846
CCDC136	102.8984901	24.44580009	4.20925025	2.073563
NTRK1	51.44924507	12.22290005	4.20925025	2.073563
KIF1A	5888.449081	1398.966469	4.2091424	2.073526
ACP1	944.342595	224.4568918	4.207233681	2.072872
NFYB	668.0103594	158.8977006	4.204027855	2.071772
CD180	37.342194	8.889381852	4.200763858	2.070652
ENSG000002	37.342194	8.889381852	4.200763858	2.070652
FLT1	1334.361066	317.7954012	4.19880546	2.069979
QSER1	4169.87833	993.3884219	4.197631297	2.069575
BLOC1S5	97.91953094	23.33462736	4.196318605	2.069124
MRPL42	1248.888933	297.794292	4.193797417	2.068257
GIMAP7	60.57733694	14.44524551	4.193583065	2.068183
MIR548XHC	60.57733694	14.44524551	4.193583065	2.068183
RANBP20P	60.57733694	14.44524551	4.193583065	2.068183
PROSER1	2795.685591	666.7036389	4.193295833	2.068085
ARMCX4	647.264696	154.4530097	4.190690084	2.067188
NDUFAF6	888.7442172	212.2339917	4.187567741	2.066113
PNMA3	130.2827657	31.11283648	4.1874281	2.066064
LPGAT1	5572.285172	1331.184932	4.185958717	2.065558
CC2D2B	23.23514293	5.555863657	4.182093796	2.064225
ENSG000002	23.23514293	5.555863657	4.182093796	2.064225
BSCL2	46.47028587	11.11172731	4.182093796	2.064225
AP3B2	366.7833277	87.78264578	4.178312518	2.06292
PSME1	78.83352067	18.88993643	4.173307885	2.061191
CAMTA1	1451.366607	347.7970649	4.173027185	2.061094
RAB3IP	1422.322678	341.1300286	4.169444374	2.059855
CDH22	175.9232251	42.22456379	4.166371639	2.058792
MMP25	32.3632348	7.77820912	4.160756583	2.056846
ATP8B1-AS1	32.3632348	7.77820912	4.160756583	2.056846
KIF2C	365.1236747	87.78264578	4.159406127	2.056378
SNRNP25	374.2517665	90.00499125	4.158122359	2.055932
HEY2	138.5810311	33.33518194	4.157200381	2.055612
CRIP2	650.5840022	156.6753551	4.152433557	2.053957
ZNF730	364.2938481	87.78264578	4.149952931	2.053095
KCTD9P1	41.49132667	10.00055458	4.148902576	2.05273
DNAJC8P2	41.49132667	10.00055458	4.148902576	2.05273
ELOCP2	41.49132667	10.00055458	4.148902576	2.05273
EFCAB2	248.94796	60.0033275	4.148902576	2.05273
HAUS6	1063.837616	256.680901	4.144592028	2.05123
FAM107B	487.9380016	117.7843095	4.142640081	2.05055
HDDC3	50.61941854	12.22290005	4.141359117	2.050104
MCUB	381.7202053	92.22733671	4.13890522	2.049249
5 8S rRNA	551.8346447	133.3407278	4.138530319	2.049119
MRPL13	887.0845642	214.4563372	4.136434371	2.048388
PIGP	427.3606647	103.339064	4.135519019	2.048068
TTC28-AS1	68.87560227	16.66759097	4.132306965	2.046947
HNRNPH3	4559.066974	1103.394522	4.131855725	2.04679
ARL4A	146.8792964	35.55752741	4.130751127	2.046404
ZNF620	371.7622869	90.00499125	4.130463009	2.046304
ENSG000002	87.131786	21.1122819	4.127066246	2.045117
METTL21A	668.8401859	162.2312188	4.122758806	2.04361
ESRRB	73.02473494	17.7787637	4.10741355	2.03823
KCNK16	36.51236747	8.889381852	4.10741355	2.03823
FBXO10	18.25618373	4.444690926	4.10741355	2.03823
KRTCAP2	18.25618373	4.444690926	4.10741355	2.03823
ENSG000002	18.25618373	4.444690926	4.10741355	2.03823
HEXIM2	13.207709	26.55444907	2.01052651	1.007573
TNFRSF10C	13.207709	26.55444907	2.01052651	1.007573
HSP90B1	6462.972269	12980.14663	2.008386559	1.006037
FOXRED1	127.6745203	256.4163988	2.008359994	1.006018
B3GAT3	127.6745203	256.4163988	2.008359994	1.006018
ZNF543	209.1220591	419.8922259	2.00788108	1.005674
ELF3	443.5588938	890.4038703	2.007408447	1.005334
ANAPC16	250.9464709	503.7047058	2.007219723	1.005199
SLC25A19	78.14561156	156.8372148	2.00698685	1.005031
H3C6	78.14561156	156.8372148	2.00698685	1.005031
BTBD8	309.280519	620.710247	2.00694906	1.005004
ATXN7L3B	422.6466879	848.0827171	2.0065997	1.004753
THYN1	278.4625313	558.473257	2.005559794	1.004005
CHID1	220.1284833	441.4677158	2.005500193	1.003962
KATNB1	100.1584599	200.8180211	2.005003085	1.003604
RIMKLB	376.4197064	754.3123188	2.003912936	1.00282
LAMTOR2	208.0214167	416.5729197	2.00254823	1.001837
VAT1	239.9400468	480.4695628	2.002456736	1.001771
MAP9	357.7087853	716.1402983	2.002020436	1.001457
FXYD5	280.6638162	561.7925631	2.00165654	1.001194
CHST10	219.0278408	438.1484096	2.000423361	1.000305
MPND	104.5610295	209.1162864	1.999944791	0.99996
IPO9	1774.235575	3548.338257	1.999925098	0.999946
GATB	170.5995745	341.0587052	1.999176763	0.999406
C11orf71	47.3276239	94.6002248	1.998837402	0.999161
YBEY	140.8822293	281.3111948	1.996782676	0.997677
DNAJC11	537.1134992	1072.135881	1.99610675	0.997189
ENSG000002	18.71092108	37.342194	1.995743227	0.996926
EIF1	1415.426147	2824.72952	1.995674253	0.996876
PTS	129.8758051	258.9058784	1.993488149	0.995295
PLXNA1	902.5267814	1799.063924	1.993363478	0.995205
FMR1	1019.194877	2031.415354	1.99315695	0.995055
OARD1	283.9657434	565.9416958	1.992992848	0.994937
FOXQ1	30.81798766	61.40716347	1.99257538	0.994634
FRG1FP	15.40899383	30.70358173	1.99257538	0.994634
SYBU	150.788011	300.3972051	1.99218229	0.99435
DHRS13	73.74304189	146.8792964	1.991771598	0.994052
CHMP5	500.7922994	997.4514931	1.991746866	0.994034
HAUS5	116.6680961	232.3514293	1.991559278	0.993898
POLR1D	334.5952946	666.3507063	1.991512484	0.993865
ALG14	113.3661689	225.7128171	1.991006835	0.993498
OTUD3	180.5053563	359.3148889	1.990605134	0.993207
GLOD4	440.2569665	876.2968192	1.990421245	0.993074
USP9X	7382.008686	14692.07877	1.990254875	0.992953
MEMO1	39.62312699	78.83352067	1.989583525	0.992466
KDM1A	1444.04285	2872.029632	1.988881169	0.991957
ZNF408	63.83726015	126.9634596	1.988861353	0.991943
PPP6C	823.2805274	1637.24775	1.988687569	0.991817
SNORA74B	48.42826632	96.25987787	1.987679618	0.991085
MAD2L1P1	12.10706658	24.06496947	1.987679618	0.991085
IKBKG	12.10706658	24.06496947	1.987679618	0.991085
PAGR1	12.10706658	24.06496947	1.987679618	0.991085
FRMD8	117.7687385	234.0110824	1.98703905	0.99062
CEP126	358.8094277	712.8209922	1.98662838	0.990322
LINC00667	57.23340565	113.6862351	1.986361528	0.990128
C18orf21	45.12633907	89.6212656	1.986007894	0.989871
WARS2-AS1	45.12633907	89.6212656	1.986007894	0.989871
PCLO	4989.212073	9908.128808	1.985910533	0.989801
RTN3	1728.008594	3431.332715	1.985715076	0.989659
LINC01128	33.01927249	65.55629614	1.985394928	0.989426
CARD19	86.95075089	172.6039189	1.985076807	0.989195
RAB40C	116.6680961	231.5216028	1.984446567	0.988737
HSPE1	20.91220591	41.49132667	1.984072213	0.988465
FRMD5	20.91220591	41.49132667	1.984072213	0.988465
PCCB	701.1092192	1390.78927	1.983698448	0.988193
ITGB1P1	544.8179961	1080.434146	1.983110239	0.987765
NT5DC2	576.7366261	1143.500963	1.98270911	0.987473
CIAO2B	118.869381	235.6707355	1.98260253	0.987395
MRPL58	118.869381	235.6707355	1.98260253	0.987395
ARHGEF15	29.71734524	58.91768387	1.98260253	0.987395
IQCB1	551.4218506	1092.881544	1.981933693	0.986909
ZBTB10	1764.329793	3496.059185	1.981522501	0.986609
HMGCS1	405.0364092	802.4422578	1.981160803	0.986346
DTNBP1	241.0406892	477.1502567	1.979542368	0.985167
MYH6	8.80513933	17.4263572	1.979112033	0.984853
MRPS26	123.2719506	243.9690008	1.979112033	0.984853
GID8	363.2119974	718.6297779	1.978540861	0.984437
FUNDC2	248.7451861	492.0871343	1.97827802	0.984245
EPB41L4B	700.0085768	1384.150658	1.977333855	0.983556
SLC66A1	49.52890873	97.91953094	1.977017735	0.983326
MRPL11	171.7002169	339.3990521	1.976695535	0.983091
RBM42	212.4239863	419.8922259	1.976670493	0.983072
SNORA73B	212.4239863	419.8922259	1.976670493	0.983072
EGR1	1081.931495	2138.462976	1.976523455	0.982965
ENSG000002	23.11349074	45.64045934	1.974624251	0.981578
TMTC2	704.4111464	1390.78927	1.974399861	0.981414
UHMK1	554.7237778	1094.541198	1.973128323	0.980485
GOT1	155.1905807	306.2059908	1.973096495	0.980462
ZNF57	137.580302	271.3532764	1.972326506	0.979898
BRWD3	2303.644577	4543.30027	1.972222762	0.979823
MINCR	14.30835141	28.21410213	1.971862538	0.979559
ENSG000002	14.30835141	28.21410213	1.971862538	0.979559
TRAPPC2L	105.661672	208.2864599	1.971258414	0.979117
RPS20	1196.398307	2358.367008	1.971222289	0.97909
FAM136A	125.4732355	247.2883069	1.970845065	0.978814
ADAM17	1059.918647	2087.843558	1.969814914	0.97806
NDUFA2	53.9314784	106.2177963	1.969495356	0.977826
BBS12	107.8629568	212.4355925	1.969495356	0.977826
ISYNA1	401.7344819	790.8246863	1.968525785	0.977116
NGEF	25.31477557	49.789592	1.966819412	0.975864
PAXX	25.31477557	49.789592	1.966819412	0.975864

BTBD6	355.5075005	380.0210742	1.068953745	0.096199
CHRDL2	56.13276323	60.0033275	1.068953745	0.096199
PHYH	244.3426164	261.1255919	1.068686239	0.095838
ANXA2	1622.346922	1733.429461	1.068470275	0.095547
GLYR1	1207.404731	1290.071541	1.068466529	0.095542
SPRYD4	302.6766645	323.3512648	1.068305895	0.095325
RAPGEF2	1839.173478	1964.553389	1.068171879	0.095144
TM9SF4	1210.706658	1292.293887	1.067388106	0.094085
ENSG000002	38.52248457	41.11339106	1.067256993	0.093908
PPIL3	366.5139246	391.1328015	1.067170372	0.093791
DMXL2	2934.312682	3131.284757	1.067127159	0.093732
UMPS	347.8030036	371.1316923	1.067074432	0.093661
PITPNC1	270.7580344	288.9049102	1.067022483	0.093591
GPR89A	96.85653263	103.339064	1.066929212	0.093464
TESK2	407.237694	434.468538	1.066867199	0.093381
RIOX2	526.107075	561.1422294	1.066593201	0.09301
RRP7A	214.6252712	228.9015827	1.066517384	0.092907
ADCK2	156.2912231	166.6759097	1.066444464	0.092809
RASL11A	97.95717505	104.4502368	1.066284697	0.092593
NQO2	333.4946521	355.5752741	1.066209823	0.092491
SLC1A4	137.580302	146.6748005	1.066103202	0.092347
MAP7	1043.409011	1112.283904	1.066009487	0.09222
MADD	1521.087819	1621.201015	1.065816841	0.09196
PIGU	474.3768814	505.5835928	1.065784638	0.091916
FHIP2A	632.8693894	674.481848	1.065752048	0.091872
BCHE	19.81156349	21.1122819	1.065654505	0.09174
FAAH	536.0128567	571.142784	1.065539337	0.091584
PRDX2	933.344769	994.4995946	1.065522225	0.091561
IMP3	219.0278408	233.3462736	1.065372661	0.091358
PPM1A	958.6595446	1021.16774	1.065203748	0.091129
AGBL4	119.9700234	127.7848641	1.065139945	0.091043
HGH1	80.34689639	85.56030032	1.064886189	0.090699
PLA2R1	744.0342734	792.2661575	1.064824815	0.090616
IRAK1	1149.070683	1223.401177	1.064687487	0.09043
P4HTM	302.6766645	322.2400921	1.06463474	0.090359
DGUOK	323.5888704	344.4635467	1.064509871	0.090189
EMP3	101.2591023	107.7837549	1.064435221	0.090088
BCAR1	40.7237694	43.33573653	1.064138638	0.089686
PHB2	774.8522611	824.4901667	1.064061123	0.089581
NRBP2	348.903646	371.1316923	1.063708266	0.089103
RAB20	61.63597531	65.55919115	1.063651396	0.089025
NPIPB2	61.63597531	65.55919115	1.063651396	0.089025
PDCL3P4	61.63597531	65.55919115	1.063651396	0.089025
AGBL1	61.63597531	65.55919115	1.063651396	0.089025
PKD2	1379.104948	1466.748005	1.06355068	0.088889
ATRN	2534.779485	2695.705046	1.063487007	0.088802
COX6C	829.8843819	882.2711488	1.06312538	0.088312
ZKSCAN2	228.9336226	243.3468282	1.062958011	0.088085
BLTP1	11020.73251	11712.87176	1.06280338	0.087875
TRAM2	313.6830886	333.3518194	1.062702554	0.087738
SLC38A4	20.91220591	22.22345463	1.062702554	0.087738
EIF3LP2	20.91220591	22.22345463	1.062702554	0.087738
VAV2	882.7152179	937.8297853	1.062437541	0.087378
CRAT	988.3768898	1050.058231	1.062406701	0.087336
NEK11	336.7965794	357.7976195	1.062355266	0.087266
RHOT1	762.7451945	810.0449212	1.062012487	0.086801
DNAJB11	233.3361923	247.7915191	1.061950642	0.086717
C15orf40	127.6745203	135.5630732	1.061786431	0.086494
MFSD4B	425.9486151	452.2473017	1.061741453	0.086432
RPL15	1777.537502	1886.771298	1.061452316	0.08604
GALNT11	600.9507593	637.8131478	1.061340115	0.085887
SPTLC2	1036.805156	1100.061004	1.061010352	0.085439
NFIL3	671.3918739	712.2617209	1.060873312	0.085252
RMND5A	695.6060071	737.8186937	1.060684764	0.084996
HAUS8	86.95075089	92.22733671	1.060684764	0.084996
DGCR2	961.9614718	1020.056567	1.060392331	0.084598
SHE	66.03854498	70.00388208	1.060045798	0.084127
MCF2	22.01284833	23.33462736	1.060045798	0.084127
IL21R	22.01284833	23.33462736	1.060045798	0.084127
VPS33A	22.01284833	23.33462736	1.060045798	0.084127
TRAFD1	639.4732439	677.8153662	1.059958916	0.084008
MARVELD1	111.164884	117.7843095	1.059546012	0.083446
OTUD1	245.4432588	260.0144192	1.059366716	0.083202
MACO1	938.8479811	994.4995946	1.059276491	0.083079
RASAL2	1074.226998	1137.840877	1.059218283	0.083
MAP3K4	1818.261272	1925.662344	1.059068008	0.082795
SRP9	563.5289171	596.6997568	1.058862711	0.082516
SMAP1	384.1242033	406.6892197	1.058744063	0.082354
PPP1R13L	613.0578259	648.9248752	1.058505165	0.082028
FAM219B	91.35332055	96.67202764	1.058221278	0.081641
RAD50	23.11349074	24.44580009	1.057642066	0.080851
WWP1P1	23.11349074	24.44580009	1.057642066	0.080851
CCT7	1041.207726	1101.172177	1.057591247	0.080782
TRIR	512.899366	542.2522929	1.057229408	0.080288
SEC16A	7345.687486	7764.875047	1.057065804	0.080065
ARL6	140.8822293	148.897146	1.056890899	0.079826
TEX261	70.44111464	74.44857301	1.056890899	0.079826
RGS3	329.0920825	347.7970649	1.056838142	0.079754
CACNA1G	354.406858	374.4652105	1.056596965	0.079425
FEZ2	496.3897298	524.4735292	1.056576109	0.079397
METTL8	213.5246288	225.5680645	1.056403028	0.07916
HERC6	619.6616804	654.4807388	1.056190433	0.07887
UBE3D	48.42826632	51.11394565	1.055456855	0.077868
TXNDC9	267.4561072	282.2378738	1.055268009	0.077609
ESD	729.725922	770.0427029	1.05524921	0.077584
KPNA5	170.5995745	180.0099825	1.055160794	0.077463
PLEKHG7	49.52890873	52.22511838	1.05443709	0.076473
ENSG000002	49.52890873	52.22511838	1.05443709	0.076473
TANK	891.5203572	940.0521308	1.05443709	0.076473
PIK3R4	1324.072827	1395.632951	1.054045459	0.075937
PPCS	525.0064326	553.3640203	1.054013791	0.075894
ENSG000002	18.25618373	4.444690926	4.10741355	2.03823
CD22	9.128091867	2.222345463	4.10741355	2.03823
SDCCAG8	9.128091867	2.222345463	4.10741355	2.03823
HTR1B	9.128091867	2.222345463	4.10741355	2.03823
GRAP	9.128091867	2.222345463	4.10741355	2.03823
CXCL3	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
RAB1AP1	9.128091867	2.222345463	4.10741355	2.03823
EMC1-AS1	9.128091867	2.222345463	4.10741355	2.03823
PSMG3-AS1	9.128091867	2.222345463	4.10741355	2.03823
RPSAP9	9.128091867	2.222345463	4.10741355	2.03823
RPL7AP70	9.128091867	2.222345463	4.10741355	2.03823
DUXAP10	9.128091867	2.222345463	4.10741355	2.03823
EEF1A1P19	9.128091867	2.222345463	4.10741355	2.03823
VPS13B-DT	9.128091867	2.222345463	4.10741355	2.03823
RHPN1-AS1	9.128091867	2.222345463	4.10741355	2.03823
HCAR3	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
C2orf81	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ENSG000002	9.128091867	2.222345463	4.10741355	2.03823
ZBED1	9.128091867	2.222345463	4.10741355	2.03823
RP1	63.89664307	15.55641824	4.10741355	2.03823
NT5M	45.64045934	11.11172731	4.10741355	2.03823
CCNT2-AS1	45.64045934	11.11172731	4.10741355	2.03823
MCUR1P1	27.3842756	6.667036389	4.10741355	2.03823
JPT1	1587.458158	386.6881105	4.105267566	2.037476
ERVK3-1	186.71097	45.55808199	4.098306203	2.035028
MORF4L1P1	355.1657563	86.67147305	4.097839159	2.034863
HSPH1	3262.877929	796.7108484	4.095435547	2.034017
ZNF300	395.8272564	96.67202764	4.094537645	2.033701
SNRPD3	113.6862351	27.77931829	4.092477501	2.032974
RN7SL1	6266.84998	1532.307197	4.089813057	2.032035
KIF2A	2408.1566	590.0327204	4.081395008	2.029062
PITPNM2	1579.98972	387.7992833	4.074246105	2.026533
TP73-AS1	49.789592	12.22290005	4.073467983	2.026258
TEX30	149.368776	36.66870014	4.073467983	2.026258
PTX3	40.66150013	10.00055458	4.065924524	2.023583
XNDC1N	121.9845004	30.00166375	4.065924524	2.023583
SPAG5	1670.440812	411.1339106	4.063009079	2.022549
MED21	789.9948598	194.455228	4.062605402	2.022405
NAP1L4	63.06681654	15.55641824	4.054070517	2.019371
WNT7B	107.8774493	26.66814555	4.045180011	2.016204
NEMP1	341.0587052	84.44912759	4.038629113	2.013866
FAXC	121.1546739	30.00166375	4.038265174	2.013736
SLC25A19	156.8372148	38.8910456	4.032733304	2.011758
GIPC3	22.4053164	5.555863657	4.032733304	2.011758
LRFN2	67.2159492	16.66759097	4.032733304	2.011758
ZNF511	67.2159492	16.66759097	4.032733304	2.011758
PBX2	67.2159492	16.66759097	4.032733304	2.011758
WNT9A	282.1410213	70.00388208	4.030362502	2.01091
PRR15L	192.5197557	47.78042745	4.029259804	2.010515
IRAK1BP1	147.7091229	36.66870014	4.028207228	2.010138
DOCK3	966.7479114	240.01331	4.027892917	2.010025
SMPD3	245.6286539	61.11450023	4.019155077	2.006892
SLC35D3	93.77039827	23.33462736	4.018508495	2.00666
FHDC1	1650.524975	411.1339106	4.014567838	2.005245
TMA7	142.7301637	35.55752741	4.014063242	2.005063
RRAGC	35.68254093	8.889381852	4.014063242	2.005063
RIBC1	35.68254093	8.889381852	4.014063242	2.005063
OSER1-DT	35.68254093	8.889381852	4.014063242	2.005063
GMFB	334.4200929	83.33795486	4.012818571	2.004616
GCH1	985.0040951	245.5691736	4.011106445	2.004
NUDC	1372.533086	342.2412013	4.010426217	2.003756
FBXO45	365.1236747	91.11616398	4.007232732	2.002606
IL18R1	48.95976547	12.22290005	4.00557685	2.00201
MTHFD1	2861.241887	714.4840663	4.004626586	2.001668
CCDC34	284.6305009	71.11505481	4.002394454	2.000863
RPL36AP37	88.79143907	22.22345463	3.99539318	1.998337
TMA16	243.9690008	61.11450023	3.991998624	1.997111
FYTTD1	1574.180934	394.4663197	3.990659925	1.996627
ENSG000002	208.2864599	52.22511838	3.988242944	1.995753
SLIRP	1186.651943	297.794292	3.98480419	1.994509
GGCT	119.4950208	30.00166375	3.982946473	1.993836
CRCP	53.10889814	13.33407278	3.982946473	1.993836
TSPAN11	26.55444907	6.667036389	3.982946473	1.993836
UGT2B4	26.55444907	6.667036389	3.982946473	1.993836
DLX4	13.27722453	3.333518194	3.982946473	1.993836
CTBP2P4	13.27722453	3.333518194	3.982946473	1.993836
ENSG000002	13.27722453	3.333518194	3.982946473	1.993836
ZNF818P	13.27722453	3.333518194	3.982946473	1.993836
ENSG000002	13.27722453	3.333518194	3.982946473	1.993836
FAM238C	13.27722453	3.333518194	3.982946473	1.993836
PRXL2C	176.7530516	44.44690926	3.976723119	1.99158
RPL26L1	287.1199805	72.22622754	3.97528696	1.991059
LSM3	534.4082875	134.4519005	3.974717244	1.990852
HCN2	220.7338579	55.55863657	3.972989107	1.990225
SLC35A3	207.4566333	52.22511838	3.97235353	1.989994
BBIP1	723.6087371	182.232328	3.970803343	1.989431
CDK2	489.5976547	123.3401732	3.969490572	1.988954
TMEM255B	215.7548987	54.44746384	3.962625317	1.986457
SLCO6A1	101.2388371	25.55697282	3.961300025	1.985974
TIPRL	1653.844281	417.800947	3.958450293	1.984936
ISG20	87.96161254	22.22345463	3.958053057	1.984791
PIP5KL1	43.98080627	11.11172731	3.958053057	1.984791
PPAT	760.1211046	192.2328825	3.954167958	1.983374
ENSG000002	50.62955115	99.579184	1.966819412	0.975864
COQ6	224.5310529	441.4677158	1.96617666	0.975393
PCDH17	112.2655265	220.7338579	1.96617666	0.975393
SYNJ2BP	143.0835141	281.3111948	1.966062943	0.97531
CCDC77	92.45396297	181.7320108	1.965648686	0.975005
LAGE3	30.81798766	60.57733694	1.965648686	0.975005
ZFAND1	659.2848074	1295.359219	1.964794584	0.974378
ZNF665	238.8394043	468.8519914	1.963042877	0.973092
NCK2	255.3490406	501.2152262	1.962863166	0.97296
ZRANB1	1100.642416	2160.038466	1.962525189	0.972711
CABLES1	155.1905807	304.5463377	1.962402205	0.972621
NDUFA1	942.1499084	1848.02369	1.961496439	0.971955
AGPS	587.7430503	1152.629055	1.961110479	0.971671
CDC123	677.9957284	1329.382106	1.960752923	0.971408
UCHL5	454.5653179	891.2336968	1.960628455	0.971316
ADAMTS20	27.51606041	53.93872467	1.960263347	0.971047
TLCD5	22.01284833	43.15097974	1.960263347	0.971047
ARRDC1-AS	16.50963624	32.3632348	1.960263347	0.971047
DNASE2B	11.00642416	21.57548987	1.960263347	0.971047
C4orf50	11.00642416	21.57548987	1.960263347	0.971047
FAM131B-AS	11.00642416	21.57548987	1.960263347	0.971047
CSNK1A1L	5.503212081	10.78774493	1.960263347	0.971047
ARNILA	5.503212081	10.78774493	1.960263347	0.971047
ENSG000002	5.503212081	10.78774493	1.960263347	0.971047
ENSG000002	5.503212081	10.78774493	1.960263347	0.971047
ENSG000002	5.503212081	10.78774493	1.960263347	0.971047
SNORD3C	5.503212081	10.78774493	1.960263347	0.971047
ENSG000002	5.503212081	10.78774493	1.960263347	0.971047
RTN3P1	143.0835141	280.4813683	1.960263347	0.971047
RET	585.5417655	1147.650096	1.959979908	0.970839
CFAP36	337.8972218	662.2015736	1.959772176	0.970686
UBE2I	1100.642416	2156.71916	1.959509399	0.970492
KIFC2	252.0471133	493.7467874	1.958946408	0.970078
SUSD6	293.8715252	575.0697876	1.956874819	0.968551
KDM1B	739.6317038	1447.217474	1.956673121	0.968403
CHMP3	92.45396297	180.9021843	1.956673121	0.968403
IRX3	89.15203572	174.263572	1.954678551	0.966931
ANP32E	664.7880194	1298.678525	1.953522757	0.966078
DOC2A	24.21413316	47.3001124	1.953409279	0.965994
PGAP6	586.6424079	1145.160616	1.952059041	0.964997
STARD7	680.1970133	1327.722453	1.951967485	0.964929
SMARCA5	2975.036451	5807.12608	1.951951237	0.964917
UBA6-DT	74.84368431	146.0494699	1.951393377	0.964505
B9D2	37.42184215	73.02473494	1.951393377	0.964505
LBHD1	18.71092108	36.51236747	1.951393377	0.964505
H2BC4	1858.985041	3624.682298	1.949817894	0.963339
GPR137	154.0899383	300.3972051	1.949492669	0.963099
STRAP	1951.439004	3803.924829	1.9492922	0.96295
LINC00205	45.12633907	87.96161254	1.94922997	0.962904
ZNF347	859.6017271	1675.419771	1.949065152	0.962782
OSTC	280.6638162	546.8556855	1.94843672	0.962317
RTN4IP1	79.24625397	154.3477352	1.947697556	0.96177
TTYH2	100.1584599	195.0092353	1.947007128	0.961258
RN7SL1	3219.379068	6266.84998	1.946602077	0.960958
EMC1	994.9807443	1936.815129	1.946585539	0.960946
ZNF260	530.5096447	1032.304208	1.945872649	0.960417
MAN1A2	2698.775205	5250.312477	1.945442684	0.960098
TRMT6	589.9443351	1147.650096	1.945353192	0.960032
ILRUN	751.7387703	1462.154352	1.945029855	0.959792
ZNF529-AS1	20.91220591	40.66150013	1.944390769	0.959318
ZMAT3	154.0899383	299.5673785	1.94410733	0.959108
AIF1L	148.5867262	288.7796336	1.943508959	0.958664
SNAI2	249.8458285	485.448522	1.942992304	0.95828
AXIN1	307.0792341	596.6452775	1.942968495	0.958263
CLGN	208.0214167	404.1255217	1.942711131	0.958071
SAP30	64.93790256	126.1336331	1.942373069	0.95782
EXOSC3	453.4646755	880.4459519	1.941597658	0.957244
PAFAH1B2	434.7537544	843.9335844	1.94117607	0.956931
SLC38A1	1545.301952	2998.163265	1.940179562	0.95619
TMED1	105.661672	204.9671537	1.939843937	0.955941
RALY	865.1049392	1677.90925	1.939544181	0.955718
CDK5	46.22698148	89.6212656	1.938721991	0.955106
GABPAP	23.11349074	44.8106328	1.938721991	0.955106
IZUMO1	15.40899383	29.8737552	1.938721991	0.955106
PLPPR3	7.704496914	14.9368776	1.938721991	0.955106
ZNF407-AS1	7.704496914	14.9368776	1.938721991	0.955106
ZFP30	256.449683	497.0660935	1.938259731	0.954762
DBN1	630.6681045	1222.334484	1.938158082	0.954686
FUCA2	460.06853	891.2336968	1.937175961	0.953955
APP	6508.098608	12605.89487	1.936955112	0.953791
RPUSD2	48.42826632	93.77039827	1.93627411	0.953283
ENSG000001	99.05781747	191.6899292	1.935131766	0.952432
DCLRE1C	636.1713166	1230.632749	1.934436082	0.951913
CLEC11A	25.31477557	48.95976547	1.934039088	0.951617
ADORA1	25.31477557	48.95976547	1.934039088	0.951617
DLEU1	25.31477557	48.95976547	1.934039088	0.951617
CD83	68.23982981	131.9424188	1.933510373	0.951223
IPO11	558.0257051	1078.774493	1.933198567	0.95099
TAF6L	146.3854414	282.9708479	1.933053214	0.950881
KLHL24	967.4646839	1869.59918	1.932472793	0.950448
NCSTN	1147.97004	2218.126324	1.932216213	0.950257
ARL4D	35.22055732	68.04577574	1.931990318	0.950088
AREG	17.61027866	34.02288787	1.931990318	0.950088
RTCA-AS1	17.61027866	34.02288787	1.931990318	0.950088
IRGQ	170.5995745	329.4411337	1.931078285	0.949407
ASAP1	2722.989338	5257.780915	1.930885605	0.949263
SNORA53	45.12633907	87.131786	1.930841008	0.949229
KCNAB2	117.7687385	227.3724701	1.930669148	0.949101
DUSP23	100.1584599	193.3495823	1.930436855	0.948927
HNRNPM	2272.82659	4386.463055	1.929959406	0.948571
ADCY7	226.7323378	437.3185831	1.928787871	0.947694

USP33	1325.173469	1396.744123	1.054008517	0.075887
ITPRIPL2	300.4753796	316.6842285	1.053944016	0.075798
RRP9	125.4732355	132.229555	1.053846699	0.075665
PRDM16	25.31477557	26.66814555	1.053461662	0.075138
MBLAC1	25.31477557	26.66814555	1.053461662	0.075138
DUSP18	75.94432672	80.00443666	1.053461662	0.075138
H3C10	75.94432672	80.00443666	1.053461662	0.075138
TUBG1	533.8115719	562.2534021	1.053280655	0.07489
RNF128	51.73019357	54.44746384	1.052527742	0.073858
NOTCH2	8145.854523	8572.697623	1.05240004	0.073683
ALS2	1765.430436	1857.880807	1.052367043	0.073638
CPT2	499.691657	525.584702	1.051818045	0.072885
WDR3	737.4304189	775.5985665	1.051758304	0.072803
HEXB	1251.430427	1315.628514	1.051299765	0.072174
MIGA1	889.3190724	934.4962671	1.050799759	0.071488
KIF5C	269.657392	283.3490465	1.05077426	0.071453
HYI	162.8950776	171.1206006	1.050495835	0.07107
B4GALT7	353.3062156	371.1316923	1.050453334	0.071012
MRPS34	301.5760221	316.6842285	1.050097505	0.070523
SKIC8	439.1563241	461.1366835	1.050051333	0.07046
GPAT3	110.0642416	115.5619641	1.049950123	0.070321
GRIK3	27.51606041	28.89049102	1.049950123	0.070321
MST1R	27.51606041	28.89049102	1.049950123	0.070321
GPR21	165.0963624	173.3429461	1.049950123	0.070321
COX4I1	968.5653263	1016.723049	1.049720676	0.070005
RGPD3	111.164884	116.6731368	1.049550295	0.069771
NGRN	56.13276323	58.89215477	1.049158306	0.069232
PRCC	589.9443351	618.9232114	1.049121374	0.069182
BRPF3	955.3576173	1002.277804	1.049112694	0.06917
CDK4	253.1477557	265.5702828	1.049072239	0.069114
SLC35D1	197.0149925	206.678128	1.049047717	0.06908
ATXN7L3B	422.6466879	443.3579198	1.049003654	0.06902
EAF2	114.4668113	120.006655	1.048396943	0.068185
NPM3	28.61670282	30.00166375	1.048396943	0.068185
MYO18B	28.61670282	30.00166375	1.048396943	0.068185
PANX2	286.1670282	300.0166375	1.048396943	0.068185
TNFSF10	1064.321217	1115.617422	1.04819617	0.067909
TM9SF2	2827.550367	2963.497675	1.048079535	0.067748
PDGFD	86.95075089	91.11616398	1.04790543	0.067509
SMARCAD1	814.4753881	853.3806577	1.047767275	0.067318
SNX25	465.5717421	487.8048291	1.047754374	0.067301
PSMC5	585.5417655	613.3673478	1.047521089	0.066979
SCYL1	909.1306359	952.2750308	1.047456761	0.066891
IRAK2	88.0513933	92.22733671	1.047426205	0.066849
MARS1	914.6338479	957.8308945	1.047228786	0.066577
FAM104A	592.14562	620.0343841	1.047097814	0.066396
FASTKD2	681.2976557	713.3728936	1.047079625	0.066371
DNAJC10	1155.674537	1210.067105	1.047065645	0.066352
DCAF5	2564.49683	2684.593319	1.04683043	0.066028
EIF2D	689.0021526	721.1511027	1.046660159	0.065793
MYNN	331.2933673	346.6858922	1.046461917	0.06552
PUM2	3902.878008	4083.559788	1.046294498	0.065289
CLTA	608.6552562	636.7019751	1.046079811	0.064993
AKAP11	2299.242008	2404.577791	1.045813265	0.064625
PLOD3	399.5331971	417.800947	1.045722734	0.0645
POLR2C	246.5439013	257.7920737	1.045623406	0.064363
FOXL2	61.63597531	64.44801842	1.045623406	0.064363
GTF3C6	92.45396297	96.67202764	1.045623406	0.064363
DAB2IP	1143.567471	1195.621859	1.045519298	0.06422
EXOSC6	62.73661773	65.55919115	1.044990845	0.06349
GAREM1	598.7494745	625.5902478	1.044828053	0.063266
SLC31A1	189.3104956	197.7887462	1.044784895	0.063206
PIGF	158.4925079	165.564737	1.044621851	0.062981
KDM6B	2601.918672	2717.928501	1.044586263	0.062932
ZNF383	254.2483982	265.5702828	1.0445308	0.062855
EXOC3L2	31.91863007	33.33518194	1.044380096	0.062647
ST8SIA1	194.8137077	203.3446099	1.043790051	0.061832
GRSF1	1238.222718	1292.293887	1.04366837	0.061663
ENTPD6	2174.869415	2269.014718	1.043287796	0.061137
ZNF775	66.03854498	68.89270935	1.043219674	0.061043
STRADA	66.03854498	68.89270935	1.043219674	0.061043
HELLPAR	33.01927249	34.44635467	1.043219674	0.061043
LMBRD1	860.7023695	897.827567	1.043133607	0.060924
CALM3	1661.970049	1733.429461	1.042996811	0.060735
DNAJC9	166.1970049	173.3429461	1.042996811	0.060735
SPG11	3118.119965	3251.291412	1.042708891	0.060336
DCUN1D2	101.2591023	105.5614095	1.042488103	0.060031
PRDX5	677.9957284	706.7058572	1.042345589	0.059834
KCTD20	509.5974387	531.1405656	1.042274794	0.059736
CCNYL1	170.5995745	177.787637	1.042134117	0.059541
SNX31	34.11991491	35.55752741	1.042134117	0.059541
RC3H2	1950.338362	2032.334926	1.042042225	0.059414
POR	753.9400552	785.5991211	1.04199149	0.059343
RSRP1	1987.760204	2071.225971	1.041989857	0.059341
SVBP	104.5610295	108.8949277	1.041448503	0.058592
TMEM60	35.22055732	36.66870014	1.041116408	0.058131
MAT2A	1450.646705	1510.083742	1.040972786	0.057932
NUP153	2513.867279	2616.811783	1.040950652	0.057902
NFATC2IP	214.6252712	223.345719	1.040631039	0.057459
PHF5A	71.54175706	74.44857301	1.040631039	0.057459
TARDBP	1619.044994	1683.426688	1.039765228	0.056258
ZNF254	741.8329886	771.1538756	1.039524917	0.055924
SCYL3	370.9164943	385.5769378	1.039524917	0.055924
BCL2L2	148.5867262	154.4530097	1.039480535	0.055863
GFOD1	149.6873686	155.5641824	1.039260586	0.055557
BMP8B	74.84368431	77.7820912	1.039260586	0.055557
NRAP	37.42184215	38.8910456	1.039260586	0.055557
PYGB	3024.56536	3142.396485	1.038958035	0.055137
KIDINS220	4550.055749	4725.817627	1.038628511	0.05468
ZBTB49	152.9892959	158.8977006	1.038619726	0.054668
FAM171A1	926.7409145	962.2755854	1.038343695	0.054284
NAV1	3311.837695	837.8242395	3.952902695	1.982912
SLC6A17	180.0723577	45.55808199	3.952588649	1.982798
MMD	272.1831029	68.89270935	3.950825937	1.982154
ARL5A	92.1107452	23.33462736	3.947384451	1.980897
DSN1	477.9800832	121.1178277	3.946405679	1.980539
EFCAB7	385.869338	97.78320037	3.946172109	1.980454
LYPLA1	936.8741562	237.7909645	3.939906455	1.978161
DR1	590.8364918	150.0083187	3.938691512	1.977716
TM4SF18	48.12993894	12.22290005	3.937685717	1.977348
BSN	1831.427159	465.5813745	3.933634934	1.975863
TRMT6	1147.650096	292.2384284	3.927101929	1.973465
SUV39H2	440.6378892	112.2284459	3.926258497	1.973155
MAK16	440.6378892	112.2284459	3.926258497	1.973155
CCSAP	326.9516541	83.33795486	3.923202276	1.972032
OR52E6	87.131786	22.22345463	3.920712934	1.971116
CLDN5	34.8527144	8.889381852	3.920712934	1.971116
PAPPA-AS1	34.8527144	8.889381852	3.920712934	1.971116
TPBGL	34.8527144	8.889381852	3.920712934	1.971116
PSPN	17.4263572	4.444690926	3.920712934	1.971116
FKBP4P6	17.4263572	4.444690926	3.920712934	1.971116
PDE7A	1110.307902	283.3490465	3.918516456	1.970308
HSF2	343.5481848	87.78264578	3.913623037	1.968505
GULP1	886.2547376	226.6792372	3.909730545	1.967069
MST1R	112.8564085	28.89049102	3.906351348	1.965822
UBE2W	208.2864599	53.33629111	3.905154549	1.96538
MGAM	208.2864599	53.33629111	3.905154549	1.96538
GABRA3	173.4337455	44.44690926	3.902042873	1.96423
TCEAL8	541.8767263	138.8965914	3.90129607	1.963953
AADAT	407.4448279	104.4502368	3.900851166	1.963789
SMIM8	156.0073883	40.00221833	3.899968421	1.963462
YBX1P10	39.00184707	10.00055458	3.899968421	1.963462
PRRG1	78.00369414	20.00110917	3.899968421	1.963462
ENSG000002	177.5828781	45.55808199	3.897944566	1.962714
MTAP	415.7430932	106.6725822	3.897375357	1.962503
PDE4D	1125.244779	288.9049102	3.89486208	1.961572
RPS27	527.7696752	135.5630732	3.893166942	1.960944
ELAVL4	82.1528268	21.1122819	3.891233889	1.960228
PPP3R1	168.4547863	43.33573653	3.887202567	1.958732
SLF1	634.817298	163.3423915	3.886420984	1.958442
MT3	21.57548987	5.555863657	3.883372811	1.95731
RBM44	21.57548987	5.555863657	3.883372811	1.95731
ENSG000002	21.57548987	5.555863657	3.883372811	1.95731
ENSG000002	21.57548987	5.555863657	3.883372811	1.95731
DESI2	620.710247	160.0088733	3.879223908	1.955768
ZBTB21	1896.153629	488.9160018	3.878280976	1.955417
TXNDC16	1137.692177	293.3496011	3.878280976	1.955417
PUS3	90.45109214	23.33462736	3.876260407	1.954665
FANCL	736.0561351	190.0105371	3.873764826	1.953736
ERCC8	740.2052678	191.1217098	3.872952311	1.953434
RAD21	12966.03958	3347.96344	3.872813971	1.953382
IL22RA1	47.3001124	12.22290005	3.869794584	1.952257
DYRK3	412.4237871	106.6725822	3.866258588	1.950938
NLRP14	73.02473494	18.88993643	3.865800988	1.950767
ZNF551	613.2418082	158.8977006	3.859349795	1.948358
BEND2	25.72462253	6.667036389	3.858479395	1.948032
LACTB2	501.2152262	130.0072096	3.855287932	1.946839
PPID	1267.974943	328.9071285	3.85511542	1.946774
CPS1	873.8073396	226.6792372	3.854818599	1.946663
DNAJC6	985.0040951	255.5697282	3.854150106	1.946413
EIF4E3	107.0476228	27.77931829	3.853500712	1.94617
DNMT3B	509.5134915	132.229555	3.853249686	1.946076
PABIR3	81.32300027	21.1122819	3.851928497	1.945581
ZNF714	585.8575326	152.2306642	3.848485689	1.944291
MTERF3	943.5127684	245.5691736	3.842146612	1.941913
PDIK1L	490.4274812	127.7848641	3.83791527	1.940323
TRIT1	2130.164711	555.5863657	3.834083848	1.938882
H2AC21	1435.599903	374.4652105	3.833733715	1.93875
THBD	1315.275055	343.352374	3.830685776	1.937603
DBI	672.159492	175.5652916	3.828544276	1.936796
ENSG000002	34.02288787	8.889381852	3.827362626	1.936351
GET4	34.02288787	8.889381852	3.827362626	1.936351
NUDCD1	1249.718759	326.684783	3.825457518	1.935632
CSE1L	4033.786779	1054.502922	3.825296919	1.935572
H2BC5	2834.687438	741.1522119	3.824703472	1.935348
DARS2	2145.931415	561.1422294	3.824220141	1.935166
CCSER2	4133.365963	1081.171068	3.823045294	1.934722
NDUFS6	985.0040951	257.7920737	3.820924674	1.933922
AP1S2	339.3990521	88.89381852	3.818027595	1.932828
F8A1	76.34404107	20.00110917	3.81699037	1.932436
TMBIM4	38.17202053	10.00055458	3.81699037	1.932436
SSBP1	156.8372148	41.11339106	3.81474772	1.931588
LCOR	1219.845004	320.0177467	3.811804241	1.930474
VPS4A	42.3211532	11.11172731	3.808692565	1.929296
CCDC74A	42.3211532	11.11172731	3.808692565	1.929296
ACAA2P1	42.3211532	11.11172731	3.808692565	1.929296
GPR137C	308.6954704	81.11560939	3.805623513	1.928133
H1-0	2906.05252	764.4868392	3.801311377	1.926497
CMAS	1501.986025	395.5774924	3.79694511	1.924839
LRRN3	50.61941854	13.33407278	3.796245857	1.924573
MRPL30	50.61941854	13.33407278	3.796245857	1.924573
FAM174A	316.1639092	83.33795486	3.793756515	1.923627
MARCHF3	71.36508187	18.88993643	3.777941875	1.917601
HMGB1P6	71.36508187	18.88993643	3.777941875	1.917601
THBS3-AS1	87.96161254	23.33462736	3.76957434	1.914402
EEF1E1	238.1602151	63.33684569	3.760215913	1.910816
KRAS	2427.24261	645.591357	3.759719804	1.910625
CELF4	129.4529392	34.44635467	3.75810272	1.910005
RBP4	267.2041437	71.11505481	3.757349895	1.909715
INPP1	150.1986025	40.00221833	3.754756831	1.908719
TCIM	150.1986025	40.00221833	3.754756831	1.908719
ETS1	633.9874715	168.8982552	3.753665015	1.9083
NOL9	368.7152095	711.1613391	1.928755096	0.94767
ATP2A2	2908.997906	5607.137886	1.92751527	0.946742
GLB1	970.7666112	1870.429006	1.926754572	0.946173
PTH1R	29.71734524	57.2580308	1.926754572	0.946173
TMEM217	9.905781747	19.08601027	1.926754572	0.946173
CROCC2	9.905781747	19.08601027	1.926754572	0.946173
RAB35-AS1	9.905781747	19.08601027	1.926754572	0.946173
ENSG000002	9.905781747	19.08601027	1.926754572	0.946173
ENSG000002	9.905781747	19.08601027	1.926754572	0.946173
NET1	1304.261263	2512.714743	1.926542491	0.946014
PGAP1	565.730202	1089.562238	1.92593967	0.945563
PITHD1	333.4946521	642.2857368	1.925925147	0.945552
TSPAN5	71.54175706	137.7512045	1.925465773	0.945207
TXNL4A	347.8030036	669.6700124	1.925429066	0.94518
ARMT1	236.6381195	455.5747668	1.925196024	0.945005
USP39	638.3726015	1228.973096	1.925165794	0.944983
ODF2L	366.5139246	705.3525534	1.924490465	0.944477
RAB4A-AS1	31.91863007	61.40716347	1.923865884	0.944008
GPD2	399.5331971	768.4193699	1.923292921	0.943579
PATL1	1039.006441	1998.222292	1.923204913	0.943512
ING1	227.8329802	438.1484096	1.923112314	0.943443
TRAPPC10	1097.340489	2110.248874	1.923057515	0.943402
ATG101	156.2912231	300.3972051	1.922035026	0.942635
PIN1	146.3854414	281.3111948	1.921715658	0.942395
GPT2	411.6402637	790.8246863	1.921154843	0.941974
ENSG000002	12.10706658	23.23514293	1.919138941	0.940459
MAFG	72.64239948	139.4108576	1.919138941	0.940459
NKIRAS1	108.9635992	209.1162864	1.919138941	0.940459
MGST3	595.4475472	1141.84131	1.91761863	0.939316
ZNF229	172.8008594	331.1007868	1.916082987	0.93816
LSM6	126.5738779	242.3093477	1.914370894	0.93687
SCRIB	85.85010847	164.3056536	1.913866581	0.93649
EFNA2	14.30835141	27.3842756	1.913866581	0.93649
FGFBP3	14.30835141	27.3842756	1.913866581	0.93649
VAV2	882.7152179	1688.696995	1.913071126	0.935891
OBI1	544.8179961	1042.262126	1.913046436	0.935872
ZNF252P	59.43469048	113.6862351	1.912792582	0.93568
POLR2G	135.3790172	258.9058784	1.912452046	0.935424
TEDC1	30.81798766	58.91768387	1.911795297	0.934928
ENSG000002	30.81798766	58.91768387	1.911795297	0.934928
EFHC1	544.8179961	1041.432299	1.91152331	0.934723
MORN4	47.3276239	90.45109214	1.911169095	0.934455
BRMS1	96.85653263	185.0513169	1.910571356	0.934004
TERF1	340.0985066	649.7541756	1.910488176	0.933941
PAIP1	649.3790256	1240.590667	1.910426143	0.933894
MFSD6	901.4261389	1721.890057	1.910184298	0.933712
WDR12	460.06853	878.7862988	1.910120431	0.933664
SPACA9	66.03854498	126.1336331	1.910000184	0.933573
ANKRD62	16.50963624	31.53340827	1.910000184	0.933573
HNRNPRP1	16.50963624	31.53340827	1.910000184	0.933573
ENSG000002	16.50963624	31.53340827	1.910000184	0.933573
UGGT2	987.2762474	1885.365884	1.909663976	0.933319
SNAPIN	117.7687385	224.8829905	1.909530435	0.933218
PROM1	122.1713082	233.1812559	1.90864172	0.932546
ZNF213-AS1	35.22055732	67.2159492	1.90842946	0.932386
ASPHD2	18.71092108	35.68254093	1.907043528	0.931338
OSER1-DT	18.71092108	35.68254093	1.907043528	0.931338
LCA5	243.241974	463.8730322	1.907043528	0.931338
SNF8	249.8458285	476.3204302	1.906457406	0.930894
SSH2	1337.280536	2548.397284	1.905656454	0.930288
ITGA6	1708.19703	3253.749837	1.904786029	0.929629
ACAN	20.91220591	39.8316736	1.904709325	0.929571
FAM151B-DT	20.91220591	39.8316736	1.904709325	0.929571
XPO5	878.3126482	1672.930291	1.904709325	0.929571
CCSAP	171.7002169	326.9516541	1.904200588	0.929185
PNO1	111.164884	211.605766	1.903530668	0.928678
TMEM38A	67.13918739	127.7932861	1.903408294	0.928585
WARS2	208.0214167	395.8272564	1.902819732	0.928139
TRAPPC6A	50.62955115	96.25987787	1.901258765	0.926955
NOP10	25.31477557	48.12993894	1.901258765	0.926955
PLCB4	591.0449776	1123.585126	1.901014591	0.92677
MRPS15	261.9528951	497.89592	1.900707835	0.926537
UTP4	105.661672	200.8180211	1.900575841	0.926437
ZNF585A	344.5010763	654.7331348	1.900525658	0.926399
CD109	332.3940097	631.4979919	1.899847691	0.925884
API5	1056.61672	2007.350384	1.899790479	0.92584
LINC00472	59.43469048	112.8564085	1.898830592	0.925111
CDC27	785.8586852	1491.19828	1.897539988	0.92413
MRPS33	136.4796596	258.9058784	1.897029045	0.923742
RPS29	326.8907976	619.8804204	1.896292049	0.923181
MACROH2A	1089.635992	2065.438242	1.895530486	0.922602
XRN2	2015.276264	3819.691533	1.89536869	0.922479
POP5	122.1713082	231.5216028	1.895057082	0.922241
TMEM201	122.1713082	231.5216028	1.895057082	0.922241
ISOC1	250.9464709	475.4906036	1.894788964	0.922037
SPRING1	173.9015018	329.4411337	1.894412241	0.92175
ERMP1	644.976456	1221.504657	1.893874801	0.921341
EEF2KMT	49.52890873	93.77039827	1.893245797	0.920862
ATRNL1	370.9164943	701.2034207	1.890461685	0.918739
ALG10B	247.6445437	468.0221648	1.889894919	0.918306
GPAA1	187.1092108	353.5061032	1.889303588	0.917855
VIRMA	2616.227024	4942.446833	1.889150593	0.917738
USP14	783.6574004	1479.580709	1.888045348	0.916893
QSER1	2210.089972	4169.87833	1.886745962	0.9159
EML1	359.9100701	678.7981043	1.886021428	0.915346
PHC1	800.1670366	1508.624638	1.885387136	0.914861
SENP5	859.6017271	1620.65122	1.885351284	0.914833
BTNL8	6.603854498	12.447398	1.884868603	0.914464
PAPPA2	6.603854498	12.447398	1.884868603	0.914464
MBOAT7	6.603854498	12.447398	1.884868603	0.914464
MYBPH	6.603854498	12.447398	1.884868603	0.914464

RAB29	193.7130653	201.1222644	1.038248319	0.054152
PCBP2	855.1991575	887.8270124	1.038152347	0.054018
PIKFYVE	2417.010746	2509.028028	1.038070696	0.053905
SUN1	1649.862982	1712.317179	1.037854172	0.053604
LRRC20	79.24625397	82.22678213	1.037610966	0.053266
KIF21B	198.1156349	205.5669553	1.037610966	0.053266
CYFIP2	1350.488245	1401.188814	1.0375424	0.05317
HIPK1	2716.385483	2817.934047	1.037383709	0.05295
ZNF680	1319.670257	1368.964805	1.037353686	0.052908
NVL	961.9614718	997.8331128	1.037290102	0.052819
TRIM23	402.8351244	417.800947	1.037151236	0.052626
PCSK7	325.7901552	337.7965104	1.036853032	0.052211
SKP1	81.44753881	84.44912759	1.036853032	0.052211
EXOSC1	122.1713082	126.6736914	1.036853032	0.052211
MPZL2	408.3383364	423.3568107	1.036779486	0.052109
PPP2R5C	1683.982897	1745.652361	1.036621194	0.051889
TVP23C	246.5439013	255.5697282	1.036609411	0.051872
ZNF674	124.372593	128.8960368	1.036370101	0.051539
WDR70	706.6124313	732.26283	1.03630052	0.051442
ZC3H12B	83.64882364	86.67147305	1.03613499	0.051212
AGGF1	41.82441182	43.33573653	1.03613499	0.051212
SUGP1	463.3704573	480.02662	1.035945673	0.050948
RHOG	212.4239863	220.0122008	1.035722023	0.050637
TMUB1	213.5246288	221.1233736	1.035587205	0.050449
SARDH	42.92505424	44.44690926	1.035453771	0.050263
THBS1	3343.751661	3461.303058	1.035155541	0.049848
ZFAND1	659.2848074	682.2600571	1.034848747	0.04942
ZNF536	88.0513933	91.11616398	1.034806612	0.049361
TMEM107	44.02569665	45.55808199	1.034806612	0.049361
METTL5	397.3319123	411.1339106	1.034736697	0.049264
RIC1	1303.160621	1347.852523	1.034295007	0.048648
ZNF561	585.5417655	605.5891386	1.034237307	0.048567
ZNF221	225.6316953	233.3462736	1.034191022	0.048503
REEP3	457.8672452	473.3595836	1.033835874	0.048007
GID4	137.580302	142.2301096	1.033797044	0.047953
DCAF8	92.45396297	95.5608549	1.033604746	0.047685
RPP38	138.6809445	143.3412824	1.033604746	0.047685
PCED1B	187.1092108	193.3440553	1.033321954	0.04729
DNAJC13	2484.149934	2566.80901	1.033274592	0.047224
HYDIN	235.5374771	243.3468282	1.03315545	0.047057
FHL3	94.6552478	97.78320037	1.033045738	0.046904
PRDM15	378.6209912	391.1328015	1.033045738	0.046904
CREBRF	669.1905891	691.149439	1.032814045	0.046581
MPDZ	2971.734524	3069.059084	1.032750086	0.046491
EFCAB11	144.1841565	148.897146	1.032687291	0.046403
NPIPA7	97.95717505	101.1167186	1.032254335	0.045798
CISD2	147.4860838	152.2306642	1.032169682	0.04568
STC1	49.52890873	51.11394565	1.032002258	0.045446
C22orf39	49.52890873	51.11394565	1.032002258	0.045446
MBOAT1	405.0364092	417.800947	1.031514544	0.044764
FAM91A1	761.6445521	785.5991211	1.031451113	0.044675
GMDS	611.9571835	631.1461115	1.031356651	0.044543
SNRPN	152.9892959	157.7865279	1.031356651	0.044543
OAZ2	255.3490406	263.3479374	1.031325345	0.0445
ENSG000002	102.3597447	105.5614095	1.031278554	0.044434
ALG8	410.5396213	423.3568107	1.031220347	0.044353
SLC43A1	205.8201318	212.2339917	1.031162451	0.044272
FCHSD1	156.2912231	161.1200461	1.030896316	0.043899
RCC1L	315.8843735	325.5736103	1.030673365	0.043587
FAM193A	1533.194886	1580.087624	1.030584982	0.043463
EFCAB14	1217.310512	1254.514014	1.030562047	0.043431
FKBP15	1222.813725	1260.069877	1.030467562	0.043299
DSP	34600.89564	35653.08826	1.030409404	0.043218
KDSR	428.1498999	441.1355744	1.030329738	0.043106
FAM104B	214.6252712	221.1233736	1.030276502	0.043032
BBS12	107.8629568	111.1172731	1.030170843	0.042884
SLC2A10	433.653112	446.691438	1.030066257	0.042737
ZNF607	283.9657434	292.2384284	1.029132686	0.041429
TM2D1	633.9700318	652.2583934	1.02884736	0.041029
UTP20	1382.406875	1421.189924	1.028054728	0.039917
LRPPRC	3106.012899	3192.399257	1.027812621	0.039577
PIK3CB	1586.025722	1630.090397	1.027783077	0.039536
C2orf42	183.8072835	188.8993643	1.027703368	0.039424
RBP1	123.2719506	126.6736914	1.027595416	0.039272
TOMM40L	123.2719506	126.6736914	1.027595416	0.039272
ZNF568	124.372593	127.7848641	1.027435876	0.039048
ZNF441	187.1092108	192.2328825	1.027383322	0.038975
FAM136A	125.4732355	128.8960368	1.027279135	0.038828
ZNF66	63.83726015	65.55919115	1.026973761	0.038399
TOM1	446.860821	458.9143381	1.026973761	0.038399
SPA17	64.93790256	66.67036389	1.026678739	0.037985
UBP1	1121.554622	1151.17495	1.026410062	0.037607
DCAF6	2612.925096	2681.259801	1.026152569	0.037245
TUBA1B	4252.882297	4361.352971	1.025505214	0.036335
DGLUCY	212.4239863	217.7898554	1.025260184	0.03599
SLC17A5	354.406858	363.3534832	1.025243939	0.035967
ZNF134	429.2505424	440.0244016	1.025099233	0.035764
PAQR4	71.54175706	73.33740027	1.025099233	0.035764
CEP126	358.8094277	367.7981741	1.025051589	0.035697
ZNF549	294.9721676	302.238983	1.024635597	0.035111
ELF3	443.5588938	454.4696472	1.024598207	0.035058
INO80E	369.8158519	378.9099014	1.024590751	0.035048
GAPDH	1360.394027	1393.410605	1.024269864	0.034596
CEP83	378.6209912	387.7992833	1.024241371	0.034556
ING1	227.8329802	233.3462736	1.024198838	0.034496
MMACHC	152.9892959	156.6753551	1.024093576	0.034348
CZIB	230.034265	235.5686191	1.024058825	0.034299
BNIP3L	460.06853	471.1372381	1.024058825	0.034299
TEAD2	312.5824462	320.0177467	1.023786686	0.033915
UBA2	1341.683105	1373.409496	1.023646709	0.033718
PTPN23	1823.764484	1866.770189	1.023580734	0.033625
XRCC4	191.6899292	51.11394565	3.750247154	1.906986
SKP2	966.7479114	257.7920737	3.750107199	1.906932
VMA21	583.368053	155.5641824	3.750015228	1.906896
SGCB	2355.047702	628.923766	3.74456783	1.904799
ANP32B	1909.430853	510.0282837	3.743774442	1.904494
BRMS1L	623.1997266	166.6759097	3.738991001	1.902649
ENSG000002	37.342194	10.00055458	3.734012318	1.900727
RGS18	24.894796	6.667036389	3.734012318	1.900727
CD52	24.894796	6.667036389	3.734012318	1.900727
TUBAL3	12.447398	3.333518194	3.734012318	1.900727
MAFA	12.447398	3.333518194	3.734012318	1.900727
SYCP1	12.447398	3.333518194	3.734012318	1.900727
RN7SKP255	12.447398	3.333518194	3.734012318	1.900727
H2BC12L	12.447398	3.333518194	3.734012318	1.900727
CCNY-AS1	12.447398	3.333518194	3.734012318	1.900727
GARS1-DT	95.43005134	25.55697282	3.734012318	1.900727
POMC	70.53525534	18.88993643	3.734012318	1.900727
HSPE1	41.49132667	11.11172731	3.734012318	1.900727
LIN52	319.4832153	85.56030032	3.734012318	1.900727
S100A14	87.131786	23.33462736	3.734012318	1.900727
ODAD1	58.08785734	15.55641824	3.734012318	1.900727
NRSN2-AS1	29.04392867	7.77820912	3.734012318	1.900727
DDX43	16.59653067	4.444690926	3.734012318	1.900727
RPL24P8	16.59653067	4.444690926	3.734012318	1.900727
ENSG000002	16.59653067	4.444690926	3.734012318	1.900727
ZNF710-AS1	16.59653067	4.444690926	3.734012318	1.900727
ENSG000002	16.59653067	4.444690926	3.734012318	1.900727
FBXL19-AS1	16.59653067	4.444690926	3.734012318	1.900727
ENSG000002	16.59653067	4.444690926	3.734012318	1.900727
TNNI3K	8.298265334	2.222345463	3.734012318	1.900727
KLRF1	8.298265334	2.222345463	3.734012318	1.900727
GNG8	8.298265334	2.222345463	3.734012318	1.900727
SH2D5	8.298265334	2.222345463	3.734012318	1.900727
RAMP2-AS1	8.298265334	2.222345463	3.734012318	1.900727
FAM177B	8.298265334	2.222345463	3.734012318	1.900727
QRICH1	8.298265334	2.222345463	3.734012318	1.900727
EXOC3-AS1	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ZC3H12A-D	8.298265334	2.222345463	3.734012318	1.900727
FOXP4-AS1	8.298265334	2.222345463	3.734012318	1.900727
ACTG1P25	8.298265334	2.222345463	3.734012318	1.900727
TRHDE-AS1	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
LINC01301	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
PYCARD-AS	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
SNORA28	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
RNA5-8SN1	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
ENSG000002	8.298265334	2.222345463	3.734012318	1.900727
STON1-GTF	4.149132667	1.111172731	3.734012318	1.900727
IPCEF1	4.149132667	1.111172731	3.734012318	1.900727
ABCC6	4.149132667	1.111172731	3.734012318	1.900727
POLDIP3	4.149132667	1.111172731	3.734012318	1.900727
SLC19A3	4.149132667	1.111172731	3.734012318	1.900727
NKD2	4.149132667	1.111172731	3.734012318	1.900727
TATDN1	4.149132667	1.111172731	3.734012318	1.900727
GARIN4	4.149132667	1.111172731	3.734012318	1.900727
CHRFAM7A	4.149132667	1.111172731	3.734012318	1.900727
VXN	4.149132667	1.111172731	3.734012318	1.900727
ZSCAN2	4.149132667	1.111172731	3.734012318	1.900727
LINC02910	4.149132667	1.111172731	3.734012318	1.900727
PCNPP5	4.149132667	1.111172731	3.734012318	1.900727
H3P47	4.149132667	1.111172731	3.734012318	1.900727
PLGLB1	4.149132667	1.111172731	3.734012318	1.900727
NPB	4.149132667	1.111172731	3.734012318	1.900727
S100A7A	4.149132667	1.111172731	3.734012318	1.900727
SEPTIN7P13	4.149132667	1.111172731	3.734012318	1.900727
HS6ST1P1	4.149132667	1.111172731	3.734012318	1.900727
GTF2IRD2	4.149132667	1.111172731	3.734012318	1.900727
RN7SKP9	4.149132667	1.111172731	3.734012318	1.900727
PCDHA4	4.149132667	1.111172731	3.734012318	1.900727
DNLZ	4.149132667	1.111172731	3.734012318	1.900727
ANAPC10P1	4.149132667	1.111172731	3.734012318	1.900727
NPIPA8	4.149132667	1.111172731	3.734012318	1.900727
RPL21P28	4.149132667	1.111172731	3.734012318	1.900727
LINC01117	4.149132667	1.111172731	3.734012318	1.900727
KCNC4-DT	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
FKBP14-AS1	4.149132667	1.111172731	3.734012318	1.900727
IL6STP1	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
FCF1P1	4.149132667	1.111172731	3.734012318	1.900727
REV3L-IT1	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
RPL7P32	4.149132667	1.111172731	3.734012318	1.900727
YBX1P2	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
DEPDC1P2	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
NKX1-1	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
GPS2P1	6.603854498	12.447398	1.884868603	0.914464
OR2W3	6.603854498	12.447398	1.884868603	0.914464
TLCD4-RWD	6.603854498	12.447398	1.884868603	0.914464
ENSG000002	6.603854498	12.447398	1.884868603	0.914464
ENSG000002	6.603854498	12.447398	1.884868603	0.914464
PPEF1	15.40899383	29.04392867	1.884868603	0.914464
ZNNT1	15.40899383	29.04392867	1.884868603	0.914464
ENSG000002	15.40899383	29.04392867	1.884868603	0.914464
CCNP	13.207709	24.894796	1.884868603	0.914464
ZNF100	13.207709	24.894796	1.884868603	0.914464
ENSG000002	13.207709	24.894796	1.884868603	0.914464
SERBP1P6	13.207709	24.894796	1.884868603	0.914464
MPP3	70.44111464	132.7722453	1.884868603	0.914464
RXFP1	24.21413316	45.64045934	1.884868603	0.914464
POLR3G	17.61027866	33.19306133	1.884868603	0.914464
RFX4	11.00642416	20.74566333	1.884868603	0.914464
PZP	11.00642416	20.74566333	1.884868603	0.914464
ENSG000002	11.00642416	20.74566333	1.884868603	0.914464
ENSG000002	11.00642416	20.74566333	1.884868603	0.914464
KIF26B	8.80513933	16.59653067	1.884868603	0.914464
ZNF230-DT	8.80513933	16.59653067	1.884868603	0.914464
ENSG000002	8.80513933	16.59653067	1.884868603	0.914464
SLC7A10	4.402569665	8.298265334	1.884868603	0.914464
C1QL2	4.402569665	8.298265334	1.884868603	0.914464
C2orf73	4.402569665	8.298265334	1.884868603	0.914464
SH2D4B	4.402569665	8.298265334	1.884868603	0.914464
RPSAP19	4.402569665	8.298265334	1.884868603	0.914464
APCDD1L	4.402569665	8.298265334	1.884868603	0.914464
ZNF705EP	4.402569665	8.298265334	1.884868603	0.914464
RNF212B	4.402569665	8.298265334	1.884868603	0.914464
PTPN2P2	4.402569665	8.298265334	1.884868603	0.914464
DCAF8-DT	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
PSME2P1	4.402569665	8.298265334	1.884868603	0.914464
NSMCE1-DT	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
MTCYBP33	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
ENSG000002	4.402569665	8.298265334	1.884868603	0.914464
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ABCC6	2.201284833	4.149132667	1.884868603	0.914464
PDYN	2.201284833	4.149132667	1.884868603	0.914464
F9	2.201284833	4.149132667	1.884868603	0.914464
GLIS2	2.201284833	4.149132667	1.884868603	0.914464
VPREB3	2.201284833	4.149132667	1.884868603	0.914464
DPT	2.201284833	4.149132667	1.884868603	0.914464
LYZL2	2.201284833	4.149132667	1.884868603	0.914464
PDCL2	2.201284833	4.149132667	1.884868603	0.914464
ZNF474	2.201284833	4.149132667	1.884868603	0.914464
HEPACAM	2.201284833	4.149132667	1.884868603	0.914464
RNASE7	2.201284833	4.149132667	1.884868603	0.914464
SOST	2.201284833	4.149132667	1.884868603	0.914464
INSM2	2.201284833	4.149132667	1.884868603	0.914464
C11orf16	2.201284833	4.149132667	1.884868603	0.914464
OR2M1P	2.201284833	4.149132667	1.884868603	0.914464
C9orf50	2.201284833	4.149132667	1.884868603	0.914464
FUT7	2.201284833	4.149132667	1.884868603	0.914464
ZNF716	2.201284833	4.149132667	1.884868603	0.914464
S100A7A	2.201284833	4.149132667	1.884868603	0.914464
FAM47A	2.201284833	4.149132667	1.884868603	0.914464
SEPTIN7P13	2.201284833	4.149132667	1.884868603	0.914464
AKAP14	2.201284833	4.149132667	1.884868603	0.914464
MYMK	2.201284833	4.149132667	1.884868603	0.914464
MEIS3P2	2.201284833	4.149132667	1.884868603	0.914464
FAM47B	2.201284833	4.149132667	1.884868603	0.914464
BNIP3P1	2.201284833	4.149132667	1.884868603	0.914464
Y_RNA.51	2.201284833	4.149132667	1.884868603	0.914464
PCDHA4	2.201284833	4.149132667	1.884868603	0.914464
CRTC1P1	2.201284833	4.149132667	1.884868603	0.914464
TM6SF2	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
LINC02608	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ATF6-DT	2.201284833	4.149132667	1.884868603	0.914464
DLG1-AS1	2.201284833	4.149132667	1.884868603	0.914464
FCF1P1	2.201284833	4.149132667	1.884868603	0.914464
INKA2-AS1	2.201284833	4.149132667	1.884868603	0.914464
MACROD2-I	2.201284833	4.149132667	1.884868603	0.914464
IDH3B-DT	2.201284833	4.149132667	1.884868603	0.914464
PGK1P1	2.201284833	4.149132667	1.884868603	0.914464
HOTAIR	2.201284833	4.149132667	1.884868603	0.914464
SERPINH1P1	2.201284833	4.149132667	1.884868603	0.914464
ZBTB46-AS2	2.201284833	4.149132667	1.884868603	0.914464
CDC42-IT1	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
RHOQP3	2.201284833	4.149132667	1.884868603	0.914464
RPL7P32	2.201284833	4.149132667	1.884868603	0.914464
YBX1P2	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
RPS26P42	2.201284833	4.149132667	1.884868603	0.914464
PRR23C	2.201284833	4.149132667	1.884868603	0.914464
LINC01122	2.201284833	4.149132667	1.884868603	0.914464
LINC02925	2.201284833	4.149132667	1.884868603	0.914464

GGA1	556.9250626	570.0316112	1.023533774	0.033559
SDC1	399.5331971	408.9115652	1.023473314	0.033473
PKP4	3159.944377	3233.512648	1.023281508	0.033203
TRIM37	1061.019289	1085.615759	1.023181925	0.033063
KDM1B	739.6317038	756.7086301	1.023088419	0.032931
REPS1	1237.122076	1265.625741	1.023040301	0.032863
CD63	1991.062131	2036.779617	1.022961356	0.032752
CORO2A	334.5952946	342.2412013	1.022851208	0.032596
OSGIN2	592.14562	605.5891386	1.022703062	0.032387
BRPF1	680.1970133	695.5941299	1.02263626	0.032293
UBE2Q1	616.3597531	630.0349387	1.022187019	0.031659
BRIX1	266.3554647	272.2373192	1.022082725	0.031512
ZSCAN30	178.3040714	182.232328	1.022031222	0.031439
PTPRF	7980.758161	8156.007849	1.021959028	0.031337
DCUN1D4	450.1627483	460.0255108	1.021909326	0.031267
SCIN	92.45396297	94.44968217	1.021586086	0.030811
KCNK17	93.55460539	95.5608549	1.02144469	0.030611
STEAP3	94.6552478	96.67202764	1.021306582	0.030416
MOCOS	96.85653263	98.8943731	1.021039783	0.030039
KIF24	97.95717505	100.0055458	1.02091088	0.029857
ENSG000001	99.05781747	101.1167186	1.020784842	0.029679
HNRNPLL	529.4090022	540.0299475	1.02006189	0.028657
BBX	2022.980761	2063.447762	1.020003651	0.028574
NDUFA12	544.8179961	555.5863657	1.019765077	0.028237
SNRPC	225.6316953	230.0127554	1.019416865	0.027744
ITFG2	348.903646	355.5752741	1.019121692	0.027326
WIPI2	600.9507593	612.256175	1.018812549	0.026889
PARP1	2897.991482	2952.385947	1.018769712	0.026828
DCDC1	122.1713082	124.4513459	1.018662628	0.026676
PCGF3	494.1884449	503.3612473	1.018561345	0.026533
ZNF362	899.2248541	915.6063307	1.018217331	0.026046
IQCG	522.8051477	532.2517384	1.018069047	0.025835
KLHL9	815.5760305	830.0460304	1.017742061	0.025372
RPE	559.1263475	568.9204385	1.017516776	0.025053
RBM39	4623.798791	4702.482999	1.017017222	0.024344
ORC3	462.2698148	470.0260654	1.016778622	0.024006
CEP104	624.06425	634.4796297	1.016689595	0.023879
ATG101	156.2912231	158.8977006	1.016677056	0.023861
HIBCH	643.8758135	654.4807388	1.016470451	0.023568
IL17RA	490.8865177	498.9165564	1.016358239	0.023409
WDR5	331.2933673	336.6853376	1.016275515	0.023292
ARID1B	3841.242033	3903.549806	1.016220736	0.023214
MYD88	169.4989321	172.2317734	1.016123059	0.023075
NLK	692.3040799	703.372339	1.015987569	0.022883
DGCR8	358.8094277	364.4646559	1.015761091	0.022561
PES1	381.9229185	387.7992833	1.015386259	0.022029
RHOBTB2	405.0364092	411.1339106	1.015054206	0.021557
PDSS2	210.2227015	213.3451644	1.01485312	0.021271
NFYA	421.5460454	427.8015016	1.014839319	0.021251
KLHL11	650.479668	660.0366025	1.014692134	0.021042
CADM1	1884.299817	1911.217098	1.014285031	0.020463
TAF4	238.8394043	242.2356555	1.014219811	0.02037
YIPF2	485.3833056	492.24952	1.014145963	0.020265
RAN	729.725922	740.0410391	1.014135605	0.020251
TICAM1	260.8522527	264.4591101	1.013827204	0.019812
MIDEAS	1095.139204	1110.061559	1.013625989	0.019525
PARP4	1655.366194	1677.870824	1.013594956	0.019481
YWHAQ	2643.743084	2679.037455	1.013350152	0.019133
TRMT5	298.2740948	302.238983	1.013292767	0.019051
PUM1	4117.503279	4171.342434	1.01307568	0.018742
TBL2	324.6895128	328.9071285	1.012989689	0.018619
ARF1	1639.9572	1661.203234	1.012955236	0.01857
NUP155	1488.068547	1506.750224	1.012554312	0.017999
GLCE	375.319064	380.0210742	1.012528035	0.017962
SLC46A1	395.1306275	400.0221833	1.012379592	0.01775
PRKAA2	432.5524696	437.8020562	1.0121363	0.017404
RANBP3	1024.69809	1036.724158	1.011736207	0.016833
LMBR1	661.4860922	668.9259843	1.011247239	0.016136
TNIP1	723.1220675	731.1516573	1.011104059	0.015931
AASDH	741.8329886	750.0415937	1.011065301	0.015876
KPNA1	970.7666112	981.1655219	1.010712061	0.015372
SF3B1	10127.01087	10231.67851	1.010335492	0.014834
GOLT1B	144.1841565	145.5636278	1.009567426	0.013737
SNX7	115.5674537	116.6731368	1.009567426	0.013737
TRNAU1AP	122.1713082	123.3401732	1.009567426	0.013737
RTF2	713.2162858	720.03993	1.009567426	0.013737
IRX3	89.15203572	90.00499125	1.009567426	0.013737
PABPC5	33.01927249	33.33518194	1.009567426	0.013737
LY86	16.50963624	16.66759097	1.009567426	0.013737
C8orf76	16.50963624	16.66759097	1.009567426	0.013737
SNHG7	16.50963624	16.66759097	1.009567426	0.013737
ENSG000002	16.50963624	16.66759097	1.009567426	0.013737
SORCS2	72.64239948	73.33740027	1.009567426	0.013737
DYRK1B	37.42184215	37.77987287	1.009567426	0.013737
TBX6	37.42184215	37.77987287	1.009567426	0.013737
C21orf58	37.42184215	37.77987287	1.009567426	0.013737
GOLGA6L9	18.71092108	18.88993643	1.009567426	0.013737
A2M-AS1	18.71092108	18.88993643	1.009567426	0.013737
TRIM6	41.82441182	42.22456379	1.009567426	0.013737
SYT13	20.91220591	21.1122819	1.009567426	0.013737
NUDT7	20.91220591	21.1122819	1.009567426	0.013737
TGFA	20.91220591	21.1122819	1.009567426	0.013737
H1-4	676.895086	683.3712298	1.009567426	0.013737
LYPD1	23.11349074	23.33462736	1.009567426	0.013737
ERCC6L2-AS	23.11349074	23.33462736	1.009567426	0.013737
ABCD3	729.725922	736.7075209	1.009567426	0.013737
BCDIN3D	96.85653263	97.78320037	1.009567426	0.013737
CRYBB3	24.21413316	24.44580009	1.009567426	0.013737
HILPDA	24.21413316	24.44580009	1.009567426	0.013737
NYAP1	24.21413316	24.44580009	1.009567426	0.013737
SPEF1	12.10706658	12.22290005	1.009567426	0.013737
OR9A1P	4.149132667	1.111172731	3.734012318	1.900727
ETF1P2	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
CCZ1P1	4.149132667	1.111172731	3.734012318	1.900727
LINC01391	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
MTND6P4	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
RNU2-58P	4.149132667	1.111172731	3.734012318	1.900727
RNU6-789P	4.149132667	1.111172731	3.734012318	1.900727
LINC03044	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ANKRD20A	4.149132667	1.111172731	3.734012318	1.900727
LINC02911	4.149132667	1.111172731	3.734012318	1.900727
LINC01979	4.149132667	1.111172731	3.734012318	1.900727
AK4P1	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
LINC03049	4.149132667	1.111172731	3.734012318	1.900727
TMEM14B-I	4.149132667	1.111172731	3.734012318	1.900727
LINC01607	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
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ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
RNVU1-4	4.149132667	1.111172731	3.734012318	1.900727
NKILA	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
HEXD-IT1	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
ERICD	4.149132667	1.111172731	3.734012318	1.900727
ENSG000002	4.149132667	1.111172731	3.734012318	1.900727
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NOX4	91.28091867	24.44580009	3.734012318	1.900727
RASGEF1A	78.83352067	21.1122819	3.734012318	1.900727
ITGB1	18984.77143	5085.837592	3.732870169	1.900285
UBE2I	2156.71916	577.8098203	3.73257616	1.900172
CCT5	5449.470845	1461.192142	3.729469033	1.89897
POLE	3552.487389	953.3862036	3.726178726	1.897697
HMGB1	2470.39359	663.3701207	3.724004915	1.896855
RCAN1	194.1794088	52.22511838	3.718122904	1.894574
GLS	1718.570751	462.2478563	3.717855534	1.894471
SNX16	1326.0628	356.6864468	3.717726906	1.894421
ENPP2	355.1657563	95.5608549	3.716644819	1.894001
ATP5MJ	1044.751606	281.1267011	3.716301588	1.893868
MRPS6	346.8674909	93.33850944	3.716231307	1.89384
NEGR1	169.2846128	45.55808199	3.715797624	1.893672
TAF5	272.1831029	73.33740027	3.711381941	1.891956
VGF	123.6441535	33.33518194	3.709118903	1.891077
PHTF1	1718.570751	463.359029	3.708939813	1.891007
LRRC1	679.6279308	183.3435007	3.706855865	1.890196
PLCH1	877.1266458	236.6797918	3.705963399	1.889849
NACAD	102.8984901	27.77931829	3.70414022	1.889139
VASH2	102.8984901	27.77931829	3.70414022	1.889139
MCM5	1053.049871	284.4602192	3.70192315	1.888275
RAB27A	267.2041437	72.22622754	3.699544512	1.887348
RAD1	867.1687274	234.4574463	3.698618837	1.886987
PARPBP	525.2801956	142.2301096	3.693171558	1.88486
USP51	512.8327976	138.8965914	3.69219138	1.884477
PAIP2	1222.334484	331.129474	3.691409493	1.884172
GEMIN6	139.4108576	37.77987287	3.690082762	1.883653
CFAP91	69.7054288	18.88993643	3.690082762	1.883653
LBR	1315.275055	356.6864468	3.68748257	1.882636
INIP	393.3377768	106.6725822	3.687337164	1.882579
JADE3	782.526421	212.2339917	3.687092792	1.882484
RADX	61.40716347	16.66759097	3.684225487	1.881361
CCDC122	175.9232251	47.78042745	3.681909821	1.880454
SRC	57.2580308	15.55641824	3.680669285	1.879968
ARL13B	744.3544004	202.2334371	3.680669285	1.879968
ID2	682.947237	185.5658462	3.680349866	1.879843
SIMC1	1327.722453	361.1311377	3.676565975	1.878359
ENSG000002	53.10889814	14.44524551	3.676565975	1.878359
CD24P4	102.0686636	27.77931829	3.674268121	1.877457
TMEM52	97.91953094	26.66814555	3.67177878	1.876479
ERGIC2	1933.495823	526.6958747	3.670991013	1.87617
HPRT1	1325.232974	361.1311377	3.669672414	1.875651
INKA2	170.9442659	46.66925472	3.662888274	1.872982
ACOT9	508.683665	138.8965914	3.662319282	1.872758
SNAI1	166.7951332	45.55808199	3.661153541	1.872298
SSBL5P	2.201284833	4.149132667	1.884868603	0.914464
RNF217-AS1	2.201284833	4.149132667	1.884868603	0.914464
PKN2-AS1	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
LINC00926	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
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ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
PRMT5-DT	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
BHLHB9P1	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
MIF4GD-DT	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
RANBP3-DT	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
EML2-AS1	2.201284833	4.149132667	1.884868603	0.914464
SF1-DT	2.201284833	4.149132667	1.884868603	0.914464
MEI4	2.201284833	4.149132667	1.884868603	0.914464
SCML2P2	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
VDAC3P1	2.201284833	4.149132667	1.884868603	0.914464
LINC01607	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
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ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
ENSG000002	2.201284833	4.149132667	1.884868603	0.914464
CARMIL1	921.2377024	1735.997108	1.884418216	0.914119
RAE1	271.8586768	512.0029711	1.883342393	0.913295
ACTG1	234.4368347	441.4677158	1.883098773	0.913109
ABHD5	232.2355498	437.3185831	1.883081998	0.913096
ASNSD1	363.2119974	683.7770635	1.882583914	0.912714
GNA13	690.102795	1298.678525	1.881862433	0.912161
NUP205	1688.385467	3176.57597	1.881428165	0.911828
COQ10B	211.3233439	397.4869095	1.880941793	0.911455
CCT8P1	104.5610295	196.6688884	1.880900458	0.911424
NFYA	421.5460454	792.4843394	1.879947275	0.910692
REEP1	71.54175706	134.4318984	1.879069007	0.910018
NUAK2	134.2783748	252.2672661	1.878688706	0.909726
PDP1	729.725922	1370.873433	1.878614137	0.909669
MAOA	2542.483982	4774.821873	1.878014535	0.909208
STK38L	574.5353413	1078.774493	1.877646884	0.908926
FZD2	110.0642416	206.6268068	1.877329128	0.908682
APIP	195.9143501	367.6131543	1.876397283	0.907965
CFAP61	92.45396297	173.4337455	1.875893038	0.907578
YY1	730.8265644	1370.873433	1.875784899	0.907494
PIGP	227.8329802	427.3606647	1.875762957	0.907478
NEGR1	90.25267814	169.2846128	1.875674122	0.907409
NELFB	291.6702403	546.8556855	1.874910806	0.906822
YOD1	275.1606041	515.3222772	1.872805444	0.905201
RELL1	309.280519	579.2189203	1.872794711	0.905193
RAD51C	540.4154264	1011.558544	1.87181656	0.904439
EXOC2	778.1541883	1456.345566	1.871538556	0.904225
POLR1B	454.5653179	850.5721967	1.871177063	0.903946
EXT2	923.4389873	1727.698842	1.870939896	0.903763
ABRACL	57.23340565	107.0476228	1.870369614	0.903323
ABCA7	247.6445437	463.0432056	1.869789654	0.902876
LSM12P1	82.54818122	154.3477352	1.869789654	0.902876
ACTR10	668.0899467	1248.888933	1.869342502	0.902531
CEP295	1534.295528	2867.050673	1.868643048	0.901991
NUP62	662.5867346	1238.101188	1.868587346	0.901948
HNRNPKP4	50.62955115	94.6002248	1.868478441	0.901864
ZNF568	124.372593	232.3514293	1.86818835	0.90164
LURAP1L	73.74304189	137.7512045	1.867989182	0.901486
CEP57L1	96.85653263	180.9021843	1.867733434	0.901289
RPS7	646.0770984	1206.56778	1.867529096	0.901131
BOD1	409.4389789	764.2702372	1.866627939	0.900434
CITED2	578.937911	1080.434146	1.866234921	0.900131
ECHS1	438.0556817	817.3791354	1.8659252	0.899891
BAHCC1	85.85010847	160.1565209	1.865536617	0.899591
AATK	41.82441182	78.00369414	1.865027881	0.899197
LYRM4-AS1	18.71092108	34.8527144	1.862693678	0.89739
DDIT4	130.9764475	243.9690008	1.862693678	0.89739
KCNK2	56.13276323	104.5581432	1.862693678	0.89739

LDHB	12.10706658	12.22290005	1.009567426	0.013737	CMTM1	40.66150013	11.11172731	3.659332072	1.87158	PRIM2	442.4582514	824.0177476	1.862362709	0.897134	
RDH16	12.10706658	12.22290005	1.009567426	0.013737	EIF3E	7460.970361	2042.33548	3.653156121	1.869143	DLG4	197.0149925	366.7833277	1.86170262	0.896623	
CD164L2	12.10706658	12.22290005	1.009567426	0.013737	TFPI	332.7604399	91.11616398	3.652046194	1.868705	RO60	1364.796596	2539.269192	1.860547718	0.895727	
SMIM27	12.10706658	12.22290005	1.009567426	0.013737	LINC00662	73.02473494	20.00110917	3.651034267	1.868305	NSMCE2	289.4689555	538.5574202	1.86050148	0.895692	
ALG1L9P	12.10706658	12.22290005	1.009567426	0.013737	CTNND1	109.5371024	30.00166375	3.651034267	1.868305	JPX	152.9892959	284.6305009	1.860460232	0.89566	
RPL13P12	25.31477557	25.55697282	1.009567426	0.013737	PLCB1	1062.177963	291.1272556	3.648500586	1.867304	MVB12A	84.74946605	157.6670413	1.86038979	0.895605	
SH3YL1	674.6938012	681.1488844	1.009567426	0.013737	DCLRE1A	2551.71659	700.0388208	3.645107263	1.865961	ENSG000002	132.07709	245.6286539	1.859737021	0.895099	
POLR1E	260.8522527	263.3479374	1.009567426	0.013737	CNOT7	1603.224862	440.0244016	3.643490807	1.865321	CLEC4E	16.50963624	30.70358173	1.859737021	0.895099	
SCG3	6.603854498	6.667036389	1.009567426	0.013737	GNG2	64.7264696	17.7787637	3.64066201	1.864201	ZNF66	63.83726015	118.6651943	1.858870415	0.894426	
IQSEC3	6.603854498	6.667036389	1.009567426	0.013737	CXCR1	32.3632348	8.889381852	3.64066201	1.864201	YES1	1080.830853	2009.010037	1.858764516	0.894344	
GNRH2	6.603854498	6.667036389	1.009567426	0.013737	RPS20	2358.367008	647.8137024	3.64050189	1.864137	ALKBH7	92.45396297	171.7740924	1.857941908	0.893705	
CHRNA1	6.603854498	6.667036389	1.009567426	0.013737	AGPS	1152.629055	316.6842285	3.639679375	1.863811	HBS1L	1768.732363	3285.283246	1.857422476	0.893302	
SNTG1	6.603854498	6.667036389	1.009567426	0.013737	CKAP5	10631.73755	2921.273111	3.639419233	1.863708	PPP4R1	1155.674537	2145.931415	1.856864841	0.892869	
RGS18	6.603854498	6.667036389	1.009567426	0.013737	ELOVL4	125.3038065	34.44635467	3.63765071	1.863007	MAFF	28.61670282	53.10889814	1.855870624	0.892096	
NIM1K	6.603854498	6.667036389	1.009567426	0.013737	CDC123	1329.382106	365.5758286	3.636405917	1.862513	SPAG4	14.30835141	26.55444907	1.855870624	0.892096	
PP2D1	6.603854498	6.667036389	1.009567426	0.013737	CALM2	2257.957997	621.1455569	3.635151169	1.862015	SDAD1P1	14.30835141	26.55444907	1.855870624	0.892096	
SLC18A3	6.603854498	6.667036389	1.009567426	0.013737	FMR1	2031.415354	558.9198839	3.634537636	1.861772	MAPKAPK5-	14.30835141	26.55444907	1.855870624	0.892096	
SLC22A24	6.603854498	6.667036389	1.009567426	0.013737	ESPL1	121.1546739	33.33518194	3.634438656	1.861733	GEMIN2	143.0835141	265.5444907	1.855870624	0.892096	
ENSG000002	6.603854498	6.667036389	1.009567426	0.013737	COPS3	2058.799629	566.698093	3.632974338	1.861151	NEMP1	183.8072835	341.0587052	1.855523343	0.891826	
GPS2P1	6.603854498	6.667036389	1.009567426	0.013737	TIMM21	234.0110824	64.44801842	3.631005082	1.860369	RPUSD1	97.95717505	181.7320108	1.855218984	0.891589	
ENSG000002	6.603854498	6.667036389	1.009567426	0.013737	UQCC5	117.0055412	32.22400921	3.631005082	1.860369	SPINT2	1630.051419	3023.887888	1.855087424	0.891487	
WDR86-AS1	6.603854498	6.667036389	1.009567426	0.013737	NCAPD2	2589.888611	713.3728936	3.630483628	1.860162	PFN1	1989.961489	3689.408767	1.854010135	0.890649	
SNAI3-AS1	6.603854498	6.667036389	1.009567426	0.013737	RCN2	1209.887086	333.3518194	3.629459973	1.859755	GFRA1	134.2783748	248.94796	1.853969118	0.890617	
ENSG000002	6.603854498	6.667036389	1.009567426	0.013737	FERMT2	2322.684467	640.0354933	3.628993222	1.859569	FXR2	436.9550393	809.9106966	1.853533256	0.890278	
EIF5AP3	6.603854498	6.667036389	1.009567426	0.013737	NRARP	253.9269192	70.00388208	3.627326252	1.858907	CSTF2	235.5374771	436.4887566	1.853160533	0.889988	
ENSG000002	6.603854498	6.667036389	1.009567426	0.013737	BCAT1	141.0705107	38.8910456	3.627326252	1.858907	SLC7A1	403.9357668	748.5035331	1.853026136	0.889883	
ENSG000002	6.603854498	6.667036389	1.009567426	0.013737	NXPH1	28.21410213	7.77820912	3.627326252	1.858907	STAG2	2691.070708	4986.427639	1.852953036	0.889826	
STMN4	3.301927249	3.333518194	1.009567426	0.013737	SLC25A26	28.21410213	7.77820912	3.627326252	1.858907	MRPL49	192.6124229	356.8254093	1.85255657	0.889518	
DUSP13	3.301927249	3.333518194	1.009567426	0.013737	OTUD6B	523.6205426	144.4524551	3.624864266	1.857927	FH	525.0064326	972.5566971	1.852466249	0.889447	
NPVF	3.301927249	3.333518194	1.009567426	0.013737	ADAMTSL2	382.5500319	105.5614095	3.623957218	1.857566	FANCM	356.6081429	660.5419206	1.852290627	0.88931	
CALCA	3.301927249	3.333518194	1.009567426	0.013737	PLEKHA1	1638.907403	452.2473017	3.623918589	1.857551	PSME4	2953.023603	5468.556855	1.851850032	0.888967	
PHF24	3.301927249	3.333518194	1.009567426	0.013737	POLR2D	293.7585928	81.11560939	3.62148044	1.85658	ZNF7	386.3254881	715.3104718	1.851574628	0.888753	
GNG13	3.301927249	3.333518194	1.009567426	0.013737	SNRNP27	128.6231127	35.55752741	3.617324433	1.854923	OGG1	323.5888704	599.1347571	1.851530791	0.888719	
AHSG	3.301927249	3.333518194	1.009567426	0.013737	COQ10A	76.34404107	21.1122819	3.61609614	1.854433	GLRX2	123.2719506	228.2022967	1.851210235	0.888469	
CRH	3.301927249	3.333518194	1.009567426	0.013737	MIR600HG	72.1949084	20.00110917	3.609545241	1.851817	CHST6	24.21413316	44.8106328	1.850598265	0.887992	
CLEC18C	3.301927249	3.333518194	1.009567426	0.013737	ENSG000002	72.1949084	20.00110917	3.609545241	1.851817	SPEF1	12.10706658	22.4053164	1.850598265	0.887992	
C7orf57	3.301927249	3.333518194	1.009567426	0.013737	PSPH	192.5197557	53.33629111	3.609545241	1.851817	DUSP15	12.10706658	22.4053164	1.850598265	0.887992	
SPDYE5	3.301927249	3.333518194	1.009567426	0.013737	TNPO1P1	48.12993894	13.33407278	3.609545241	1.851817	MAPK11	36.32119974	67.2159492	1.850598265	0.887992	
CDV3P1	3.301927249	3.333518194	1.009567426	0.013737	CCND2	24.06496947	6.667036389	3.609545241	1.851817	SIMC1	717.6188554	1327.722453	1.85017777	0.887664	
ACTG1P1	3.301927249	3.333518194	1.009567426	0.013737	GLT1D1	24.06496947	6.667036389	3.609545241	1.851817	EED	368.7152095	682.1174104	1.849984467	0.887513	
FAM89A	3.301927249	3.333518194	1.009567426	0.013737	NARF-IT1	24.06496947	6.667036389	3.609545241	1.851817	TRAPPC9	1766.531078	3267.856888	1.849872289	0.887426	
DGAT2L6	3.301927249	3.333518194	1.009567426	0.013737	CDC42EP3	621.5400735	172.2317734	3.608742228	1.851496	TRMT10C	247.6445437	458.0642464	1.849684389	0.887279	
SH3BGR	3.301927249	3.333518194	1.009567426	0.013737	NANP	236.500562	65.55919115	3.607435629	1.850974	C1orf43	750.6381279	1388.29979	1.84949277	0.88713	
EZHIP	3.301927249	3.333518194	1.009567426	0.013737	SVIL-AS1	188.3706231	52.22511838	3.606897005	1.850758	TVP23B	209.1220591	386.6991645	1.849155303	0.886866	
SHISA7	3.301927249	3.333518194	1.009567426	0.013737	MT1F	116.1757147	32.22400921	3.605253273	1.850101	CSTB	1051.113508	1943.453741	1.848947547	0.886704	
C17orf99	3.301927249	3.333518194	1.009567426	0.013737	USP27X	184.2214904	51.11394565	3.604133629	1.849653	TCF3	427.0492575	789.1650332	1.847948496	0.885925	
PROS2P	3.301927249	3.333518194	1.009567426	0.013737	EFNB3	92.1107452	25.55697282	3.604133629	1.849653	NAA15	1021.396162	1887.025537	1.847496208	0.885571	
OR6C74	3.301927249	3.333518194	1.009567426	0.013737	KLHL32	228.2022967	63.33684569	3.602994342	1.849196	TKFC	110.0642416	203.3075007	1.847171231	0.885318	
CFD	3.301927249	3.333518194	1.009567426	0.013737	CALM1	4496.000158	1248.95815	3.599800488	1.847917	CUTALP	44.02569665	81.32300027	1.847171231	0.885318	
OR5B17	3.301927249	3.333518194	1.009567426	0.013737	MKRN2OS	43.98080627	12.22290005	3.598230052	1.847287	CPNE2	274.0599617	506.1941854	1.847019836	0.885199	
KTI12	3.301927249	3.333518194	1.009567426	0.013737	GLRX3	807.421217	224.4568918	3.597221768	1.846883	UBE2N	873.9100785	1614.012607	1.846886364	0.885095	
SNF8P1	3.301927249	3.333518194	1.009567426	0.013737	EIF2S3B	1054.709524	293.3496011	3.595401255	1.846153	DNAH6	345.6017187	638.1366042	1.846450899	0.884755	
HSP90B3P	3.301927249	3.333518194	1.009567426	0.013737	OLA1	1979.966109	551.1416748	3.592481206	1.844981	NUTF2	117.7687385	217.4145517	1.846114295	0.884492	
TMEM235	3.301927249	3.333518194	1.009567426	0.013737	BMF	207.4566333	57.78098203	3.59039646	1.844143	SMC6	1063.220574	1962.539751	1.845844408	0.884281	
DHX16	3.301927249	3.333518194	1.009567426	0.013737	MTFR2	103.7283167	28.89049102	3.59039646	1.844143	SPAG7	169.4989321	312.8446031	1.845702502	0.88417	
TECRL	3.301927249	3.333518194	1.009567426	0.013737	SCAMP5	143.5599903	40.00221833	3.588800728	1.843502	TCEA1	948.7537628	1750.933985	1.845509398	0.884019	
DPP9-AS1	3.301927249	3.333518194	1.009567426	0.013737	DTNA	307.0358173	85.56030032	3.588531319	1.843394	PMVK	115.5674537	213.2654191	1.845376118	0.883915	
SNORD94	3.301927249	3.333518194	1.009567426	0.013737	PSMA2	19.9158368	5.555863657	3.584651825	1.841833	WRNIP1	786.9593277	1452.196433	1.845325905	0.883876	
TRAJ10	3.301927249	3.333518194	1.009567426	0.013737	HNRNPH1P	19.9158368	5.555863657	3.584651825	1.841833	KAT8	270.7580344	499.5555731	1.845025852	0.883641	
MTCH1P1	3.301927249	3.333518194	1.009567426	0.013737	ATP2B2	334.4200929	93.33850944	3.582873724	1.841117	MRPL24	204.7194894	377.5710727	1.844333794	0.8831	
CCT7P1	3.301927249	3.333518194	1.009567426	0.013737	EIF1AX	549.3451651	153.3418369	3.582487181	1.840962	HMGB1	1339.481821	2470.39359	1.844290495	0.883066	
RBMX2P3	3.301927249	3.333518194	1.009567426	0.013737	ABCC8	449.7659811	125.5625187	3.582008277	1.840769	PHF5A	71.54175706	131.9424188	1.844271433	0.883051	
BCAR3-AS1	3.301927249	3.333518194	1.009567426	0.013737	ERVK13-1	175.0933985	48.89160018	3.581257269	1.840466	DYNLL2	663.687377	1223.994137	1.844232961	0.883021	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	RAB9B	95.43005134	26.66814555	3.578428472	1.839326	SERPINE1	172.8008594	318.6533888	1.844049792	0.882878	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	MTFR1	444.7870219	124.4513459	3.573983219	1.837533	MID1IP1	111.164884	204.9671537	1.843812059	0.882692	
SUMO2P3	3.301927249	3.333518194	1.009567426	0.013737	NRN1	424.8711851	118.8954823	3.573484686	1.837332	PPP2CA	39.62312699	73.02473494	1.842982634	0.882042	
PRPF38AP1	3.301927249	3.333518194	1.009567426	0.013737	THNSL1	238.1602151	66.67036389	3.572205118	1.836815	WFDC3	9.905781747	18.25618373	1.842982634	0.882042	
LAGE3P1	3.301927249	3.333518194	1.009567426	0.013737	HAUS1	273.842756	76.67091847	3.571663957	1.836596	GLIDR	9.905781747	18.25618373	1.842982634	0.882042	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	SULF1	1476.261403	413.3562561	3.571402104	1.836491	WDR89	270.7580344	498.7257466	1.841961025	0.881243	
GRM3-AS1	3.301927249	3.333518194	1.009567426	0.013737	LINC00963	71.36508187	20.00110917	3.568056215	1.835138	TRAF4	479.8800935	883.765258	1.841637672	0.880989	
H2BC12L	3.301927249	3.333518194	1.009567426	0.013737	ZNF137P	35.68254093	10.00055458	3.568056215	1.835138	PSMB4	702.2098616	1292.869739	1.841144378	0.880603	
UBE2R2-AS1	3.301927249	3.333518194	1.009567426	0.013737	SNORA74A	35.68254093	10.00055458	3.568056215	1.835138	TRIM59	37.42184215	68.87560227	1.840518753	0.880112	
RPS2P7	3.301927249	3.333518194	1.009567426	0.013737	HSPD1	4424.635076	1240.068768	3.568056215	1.835138	P4HA2	257.5503254	473.8309506	1.839760636	0.879518	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	ZNF354C	511.1731446	143.3412824	3.566126493	1.834358	MRPL30	27.51606041	50.61941854	1.839631756	0.879417	
ZNF503-AS2	3.301927249	3.333518194	1.009567426	0.013737	ATP5PO	1060.51831	297.794292	3.561244584	1.832382	H4C11	27.51606041	50.61941854	1.839631756	0.879417	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	VDAC3	1808.192016	507.8059383	3.560793366	1.832199	CDIN1	125.4732355	230.6917763	1.838573585	0.878587	
RN7SL530P	3.301927249	3.333518194	1.009567426	0.013737	CD34	185.8811435	52.22511838	3.559228763	1.831565	ZCCHC3	143.0835141	263.0550111	1.838471837	0.878507	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	MAPK11	67.2159492	18.88993643	3.558294091	1.831186	ZNF772	213.5246288	392.5079503	1.838232679	0.878319	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	MACC1	82.98265334	23.33462736	3.556202208	1.830337	PMPCA	354.406858	651.4138287	1.838039569	0.878168	
PELP1-DT	3.301927249	3.333518194	1.009567426	0.013737	CENPJ	1184.99229	333.3518194	3.554779727	1.82976	LRRC69	52.83083598	97.0897044	1.837746888	0.877938	
PIGFP1	3.301927249	3.333518194	1.009567426	0.013737	NUP62CL	213.2654191	60.0033275	3.55422654	1.829536	TMEM14C	35.22055732	64.7264696	1.837746888	0.877938	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	ZWILCH	375.0815931	105.5614095	3.553207511	1.829122	PKD1P4	35.22055732	64.7264696	1.837746888	0.877938	
RPL41P5	3.301927249	3.333518194	1.009567426	0.013737	SPATA17	130.2827657	36.66870014	3.552969297	1.829025	LYPD6B	17.61027866	32.3632348	1.837746888	0.877938	
PHLDA1-AS1	3.301927249	3.333518194	1.009567426	0.013737	NXPH4	146.0494699	41.11339106	3.552357665	1.828777	ACOT1	17.61027866	32.3632348	1.837746888	0.877938	
ANP32AP1	3.301927249	3.333518194	1.009567426	0.013737	CCDC43	339.3990521	95.5608549	3.551653577	1.828491	RNU1-1	17.61027866	32.3632348	1.837746888	0.877938	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	MTRF1L	209.1162864	58.89215477	3.550834355	1.828158	RASGEF1A	42.92505424	78.83352067	1.836538639	0.876989	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	IVNS1ABP	4042.914871	1138.95205	3.549679613	1.827689	GRPEL1	116.6680961	214.0952456	1.835079621	0.875843	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	MYLK-AS1	63.06681654	17.7787637	3.547311702	1.826726	CLNS1A	695.6060071	1276.273208	1.834764501	0.875595	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	ROPN1B	31.53340827	8.889381852	3.547311702	1.826726	NAV1	1805.053563	3311.837695	1.834758681	0.87559	
ZNF45-AS1	3.301927249	3.333518194	1.009567426	0.013737	PIPSL	31.53340827	8.889381852	3.547311702	1.826726	BEX4	289.4689555	531.0889814	1.834700997	0.875545	
CEBPA-DT	3.301927249	3.333518194	1.009567426	0.013737	ENSG000002	31.53340827	8.889381852	3.547311702	1.826726	HSF2BP	33.01927249	60.57733694	1.83460544	0.87547	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	AHRR	15.76670413	4.444690926	3.547311702	1.826726	STRADA	66.03854498	121.1546739	1.83460544	0.87547	
PCF11-AS1	3.301927249	3.333518194	1.009567426	0.013737	ENSG000001	15.76670413	4.444690926	3.547311702	1.826726	SLC44A1	943.2505508	1730.188322	1.834282864	0.875216	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	ENSG000002	15.76670413	4.444690926	3.547311702	1.826726	PPP1CC	2191.379051	4018.849901	1.833936443	0.874944	
TBC1D3C	3.301927249	3.333518194	1.009567426	0.013737	ENSG000002	15.76670413	4.444690926	3.547311702	1.826726	NEPRO	497.4903722	911.9793602	1.833159818	0.874333	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	ENSG000002	15.76670413	4.444690926	3.547311702	1.826726	PALB2	694.5053647	1272.953902	1.832892828	0.874122	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	RWDD1	374.2517665	105.5614095	3.545346433	1.825927	SUPV3L1	469.9743118	861.3599416	1.832780899	0.874034	
GABARAPL3	3.301927249	3.333518194	1.009567426	0.013737	NCS1	216.5847252	61.11450023	3.543917146	1.825345	MRPL21	214.6252712	393.3377768	1.832672242	0.873949	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	TBCA	440.6378892	124.4513459	3.540643823	1.824012	RGPD8	341.1991491	624.8593796	1.831362655	0.872918	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	RPS27L	373.42194	105.5614095	3.537485354	1.822724	PCBD2	46.22698148	84.6423064	1.831015214	0.872644	
ENSG000002	3.301927249	3.333518194	1.009567426	0.013737	HES6	447.2765015	126.6736914	3.530934455	1.82005	KCNMB4	7.704496914	14.10705107	1.831015214	0.872644	

ENSG000002	3.301927249	3.333518194	1.009567426	0.013737
KLKP1	3.301927249	3.333518194	1.009567426	0.013737
RCOR2	27.51606041	27.77931829	1.009567426	0.013737
LRMDA	28.61670282	28.89049102	1.009567426	0.013737
RNF122	14.30835141	14.44524551	1.009567426	0.013737
FGFBP3	14.30835141	14.44524551	1.009567426	0.013737
IFT122P3	14.30835141	14.44524551	1.009567426	0.013737
LONRF1	29.71734524	30.00166375	1.009567426	0.013737
BBS5	29.71734524	30.00166375	1.009567426	0.013737
RPL29P4	61.63597531	62.22567296	1.009567426	0.013737
OMP	30.81798766	31.11283648	1.009567426	0.013737
KRT72	15.40899383	15.55641824	1.009567426	0.013737
ZNF560	15.40899383	15.55641824	1.009567426	0.013737
SIRPB1	7.704496914	7.77820912	1.009567426	0.013737
SLC1A6	7.704496914	7.77820912	1.009567426	0.013737
FAM83E	7.704496914	7.77820912	1.009567426	0.013737
CRTAM	7.704496914	7.77820912	1.009567426	0.013737
SLCO1B1	7.704496914	7.77820912	1.009567426	0.013737
TEX12	7.704496914	7.77820912	1.009567426	0.013737
ADGRF4	7.704496914	7.77820912	1.009567426	0.013737
YIPF7	7.704496914	7.77820912	1.009567426	0.013737
FOXD4L1	7.704496914	7.77820912	1.009567426	0.013737
SERPINA3	7.704496914	7.77820912	1.009567426	0.013737
SCART1	7.704496914	7.77820912	1.009567426	0.013737
ENSG000002	7.704496914	7.77820912	1.009567426	0.013737
OR5H1	7.704496914	7.77820912	1.009567426	0.013737
TFAP2A-AS2	7.704496914	7.77820912	1.009567426	0.013737
ENSG000002	7.704496914	7.77820912	1.009567426	0.013737
FASTKD3	188.2098532	190.0105371	1.009567426	0.013737
FCGR1A	73.74304189	74.44857301	1.009567426	0.013737
EPN3	330.1927249	333.3518194	1.009567426	0.013737
LIN52	84.74946605	85.56030032	1.009567426	0.013737
ZNF596	91.35332055	92.22733671	1.009567426	0.013737
INTS9	209.1220591	211.122819	1.009567426	0.013737
CES2	266.3554647	268.903801	1.009567426	0.013737
SNX19	877.2120058	885.604667	1.009567426	0.013737
CR1	252.0471133	254.4585555	1.009567426	0.013737
GHDC	88.0513933	88.89381852	1.009567426	0.013737
CACNB4	79.24625397	80.00443666	1.009567426	0.013737
KIF4A	56.13276323	56.6698093	1.009567426	0.013737
ENSG000002	47.3276239	47.78042745	1.009567426	0.013737
HIRA	39.62312699	40.00221833	1.009567426	0.013737
PCYT1B	22.01284833	22.22345463	1.009567426	0.013737
DUSP8P5	22.01284833	22.22345463	1.009567426	0.013737
NUGGC	19.81156349	20.00110917	1.009567426	0.013737
MIR600HG	19.81156349	20.00110917	1.009567426	0.013737
GRIA4	17.61027866	17.7787637	1.009567426	0.013737
XACT	17.61027866	17.7787637	1.009567426	0.013737
ZNF571-AS1	17.61027866	17.7787637	1.009567426	0.013737
ENSG000002	17.61027866	17.7787637	1.009567426	0.013737
PAK1IP1	11.00642416	11.11172731	1.009567426	0.013737
PIP5KL1	11.00642416	11.11172731	1.009567426	0.013737
BSCL2	11.00642416	11.11172731	1.009567426	0.013737
UGT8	11.00642416	11.11172731	1.009567426	0.013737
TMPRSS11B	11.00642416	11.11172731	1.009567426	0.013737
MLLT11	11.00642416	11.11172731	1.009567426	0.013737
STXBP5-AS1	11.00642416	11.11172731	1.009567426	0.013737
IGKV1D-43	11.00642416	11.11172731	1.009567426	0.013737
ENSG000002	11.00642416	11.11172731	1.009567426	0.013737
MLNR	9.905781747	10.00055458	1.009567426	0.013737
OR2L8	9.905781747	10.00055458	1.009567426	0.013737
TKTL1	8.80513933	8.889381852	1.009567426	0.013737
P2RX5	8.80513933	8.889381852	1.009567426	0.013737
AVPI1	8.80513933	8.889381852	1.009567426	0.013737
GPR25	8.80513933	8.889381852	1.009567426	0.013737
MRGPRE	8.80513933	8.889381852	1.009567426	0.013737
ENSG000002	8.80513933	8.889381852	1.009567426	0.013737
HSPA9P1	8.80513933	8.889381852	1.009567426	0.013737
NPIPB7	8.80513933	8.889381852	1.009567426	0.013737
ENSG000002	8.80513933	8.889381852	1.009567426	0.013737
CAPS	5.503212081	5.555863657	1.009567426	0.013737
EQTN	5.503212081	5.555863657	1.009567426	0.013737
LRAT	5.503212081	5.555863657	1.009567426	0.013737
BTN2A3P	5.503212081	5.555863657	1.009567426	0.013737
KRT85	5.503212081	5.555863657	1.009567426	0.013737
SLC26A10P	5.503212081	5.555863657	1.009567426	0.013737
REN	5.503212081	5.555863657	1.009567426	0.013737
DRD3	5.503212081	5.555863657	1.009567426	0.013737
PRXL2B	5.503212081	5.555863657	1.009567426	0.013737
OSCAR	5.503212081	5.555863657	1.009567426	0.013737
DNAJB7	5.503212081	5.555863657	1.009567426	0.013737
CHRNA9	5.503212081	5.555863657	1.009567426	0.013737
OR6C75	5.503212081	5.555863657	1.009567426	0.013737
IL17REL	5.503212081	5.555863657	1.009567426	0.013737
SLC12A5-AS	5.503212081	5.555863657	1.009567426	0.013737
ACCSL	5.503212081	5.555863657	1.009567426	0.013737
CYS1	5.503212081	5.555863657	1.009567426	0.013737
PTMAP5	5.503212081	5.555863657	1.009567426	0.013737
SPINK13	5.503212081	5.555863657	1.009567426	0.013737
HNRNPA3P1	5.503212081	5.555863657	1.009567426	0.013737
LINC01277	5.503212081	5.555863657	1.009567426	0.013737
ENSG000002	5.503212081	5.555863657	1.009567426	0.013737
ENSG000002	5.503212081	5.555863657	1.009567426	0.013737
C10orf143	5.503212081	5.555863657	1.009567426	0.013737
PHF5AP5	5.503212081	5.555863657	1.009567426	0.013737
RPL30-AS1	5.503212081	5.555863657	1.009567426	0.013737
CASC11	5.503212081	5.555863657	1.009567426	0.013737
ZIM2	5.503212081	5.555863657	1.009567426	0.013737
SPATA31A3	5.503212081	5.555863657	1.009567426	0.013737
ENSG000002	5.503212081	5.555863657	1.009567426	0.013737
ENSG000002	5.503212081	5.555863657	1.009567426	0.013737
MRPL33	575.8996142	163.3423915	3.525720475	1.817918
SOX4	2101.120782	596.6997568	3.521236197	1.816082
FAM216A	54.7685512	15.55641824	3.520640186	1.815838
PPIAP29	27.3842756	7.77820912	3.520640186	1.815838
TSN	726.9280432	206.678128	3.5171987	1.814427
SLBP	843.9335844	240.01331	3.516194933	1.814015
SOCS1	39.00184707	11.11172731	3.509971579	1.811459
ENO3	323.632348	92.22733671	3.509071817	1.811089
RBM17	1663.802199	474.4707563	3.50664857	1.810093
RAMAC	163.4758271	46.66925472	3.502859175	1.808533
GREB1L	276.3322356	78.89326393	3.502608738	1.80843
SLC25A5	2646.316815	755.5974574	3.502283907	1.808296
NDUFB1	575.8996142	164.4535643	3.501898039	1.808137
API5	2007.350384	573.3651294	3.500998371	1.807766
THG1L	224.8829905	64.44801842	3.489370132	1.802967
TIMM10	554.3241243	158.8977006	3.48855976	1.802632
GMPS	5220.438721	1496.749669	3.487850259	1.802338
EIF2S1	1371.70326	393.3551469	3.487187775	1.802064
TRIM58	139.4108576	40.00221833	3.485078164	1.801191
PIGBOS1	34.8527144	10.00055458	3.485078164	1.801191
LINC00174	23.23514293	6.667036389	3.485078164	1.801191
H4C9	23.23514293	6.667036389	3.485078164	1.801191
ASCL3	11.61757147	3.333518194	3.485078164	1.801191
HMX3	11.61757147	3.333518194	3.485078164	1.801191
SEPTIN7-DT	11.61757147	3.333518194	3.485078164	1.801191
SSBL4P	11.61757147	3.333518194	3.485078164	1.801191
RC3H1-IT1	11.61757147	3.333518194	3.485078164	1.801191
TARDBPP2	11.61757147	3.333518194	3.485078164	1.801191
ENSG000002	11.61757147	3.333518194	3.485078164	1.801191
LINC02482	11.61757147	3.333518194	3.485078164	1.801191
ENSG000002	11.61757147	3.333518194	3.485078164	1.801191
ENSG000002	11.61757147	3.333518194	3.485078164	1.801191
ENSG000002	11.61757147	3.333518194	3.485078164	1.801191
ENSG000002	46.47028587	13.33407278	3.485078164	1.801191
SEH1L	1901.132588	545.5858111	3.484571169	1.800981
HIRIP3	367.6131543	105.5614095	3.482457804	1.800106
SELENOI	1463.814005	421.1344652	3.475882707	1.797379
DUSP10	455.5747668	131.1183823	3.474530106	1.796818
LRRCC1	1345.978637	387.7992833	3.470812596	1.795273
MGAT4A	2568.313121	740.0410391	3.470500938	1.795144
TMEM243	42.3211532	12.22290005	3.462447786	1.791792
B3GALT5	42.3211532	12.22290005	3.462447786	1.791792
DCLRE1C	1230.632749	355.5752741	3.460962667	1.791173
CWC27	473.001124	136.674246	3.460791905	1.791102
NFASC	346.0376644	100.0055458	3.460184748	1.790849
ZDHHC23	449.7659811	130.0072096	3.459546455	1.790583
ZNF43	1079.60432	312.2395375	3.457615677	1.789778
MMRN1	134.4318984	38.8910456	3.456628546	1.789366
BNIP2	1336.020719	386.6881105	3.455034386	1.7887
TAGLN2	1282.081994	371.1316923	3.454520378	1.788485
CCL2	61.40716347	17.7787637	3.453961394	1.788252
BRINP2	30.70358173	8.889381852	3.453961394	1.788252
IQCJ-SCHIP	30.70358173	8.889381852	3.453961394	1.788252
USP2	111.1967555	32.22400921	3.450742418	1.786907
FAM166C	160.9863475	46.66925472	3.449516142	1.786394
SPECC1	2667.062478	773.3762211	3.448596434	1.786009
RAD51C	1011.558544	293.3496011	3.4483038	1.785887
NGEF	49.789592	14.44524551	3.446780601	1.785249
RPS10	49.789592	14.44524551	3.446780601	1.785249
ARHGEF39	175.9232251	51.11394565	3.441785267	1.783157
BRIX1	936.8741562	272.2373192	3.441387679	1.78299
CRISPLD2	309.5252969	90.00499125	3.438979246	1.78198
ADAL	133.6020719	38.8910456	3.435291333	1.780432
DRP2	38.17202053	11.11172731	3.435291333	1.780432
ZBED3-AS1	19.08601027	5.555863657	3.435291333	1.780432
PRANCR	19.08601027	5.555863657	3.435291333	1.780432
ENSG000002	19.08601027	5.555863657	3.435291333	1.780432
MAOA	4774.821873	1390.077087	3.434933154	1.780282
SF3A3	1141.011483	332.2406467	3.434292266	1.780013
LRRC49	263.0550111	76.67091847	3.430962043	1.778613
GALNT13	632.3278184	184.4546734	3.428093237	1.777406
UBTD2	776.7176352	226.6792372	3.426505421	1.776738
RN7SKP203	64.7264696	18.88993643	3.426505421	1.776738
PPIA	7607.019831	2220.123117	3.426395488	1.776692
SSRP1	5607.967712	1636.757433	3.426266836	1.776638
SYN3	369.2728073	107.7837549	3.426052539	1.776547
SDHAF3	201.6478476	58.89215477	3.424018843	1.775691
TNFAIP8	136.921378	40.00221833	3.422844625	1.775196
GLRX2	228.2022967	66.67036389	3.422844625	1.775196
S100A12	45.64045934	13.33407278	3.422844625	1.775196
RXFP1	45.64045934	13.33407278	3.422844625	1.775196
MPLKIP	346.0376644	101.1167186	3.42216074	1.774908
FAT1	18681.88475	5460.302802	3.421400868	1.774587
NAT1	117.8353677	34.44635467	3.420837092	1.774349
DNAJC15	288.7796336	84.44912759	3.419569176	1.773815
MGAT4C	296.2480724	86.67147305	3.41805743	1.773177
ENSG000002	26.55444907	7.77820912	3.413954119	1.771444
CRYBB2P1	26.55444907	7.77820912	3.413954119	1.771444
CEP85	671.3296655	196.6775735	3.413351373	1.771189
REV3L	5990.517744	1755.652916	3.412131003	1.770673
RNU4-2	166.7951332	48.89160018	3.411529436	1.770419
RWDD4	140.2406841	41.11339106	3.411070712	1.770225
IQCC	147.7091229	43.33573653	3.408483039	1.76913
PFKP	2506.076131	735.5963482	3.406863203	1.768444
C1GALT1C1	215.7548987	63.33684569	3.406467378	1.768276
NTNG1	1048.070912	307.7948466	3.40509571	1.767695
ALDOA	34.02288787	10.00055458	3.402100112	1.766426
ENSG000002	34.02288787	10.00055458	3.402100112	1.766426
ZNF845	838.9546252	246.6803464	3.400978787	1.76595
STRAP	3803.924829	1118.950941	3.399545674	1.765342
DOK6	992.4725339	292.2384284	3.3961055	1.763881
PRORSD1P	7.704496914	14.10705107	1.831015214	0.872644
CLK2P1	7.704496914	14.10705107	1.831015214	0.872644
UBR5-DT	7.704496914	14.10705107	1.831015214	0.872644
UHRF2	729.725922	1336.020719	1.830852761	0.872516
C1orf198	321.3875856	588.3470122	1.830646355	0.872353
FPGT	195.9143501	358.4850624	1.829805026	0.87169
PPP2R5C	1683.982897	3080.316092	1.829184903	0.871201
LACTB2	274.0599617	501.2152262	1.828852427	0.870939
RPL22P1	191.5117804	350.1867971	1.828539196	0.870692
DLX3	44.02569665	80.49317374	1.828322545	0.870521
RGS3	329.0920825	601.6242367	1.828133427	0.870371
SUV39H2	241.0406892	440.6378892	1.828064344	0.870317
HDAC6	598.7494745	1094.541198	1.828045358	0.870302
TMEM67	865.1049392	1580.819546	1.827315363	0.869726
LAMP1	2018.578191	3687.749114	1.826904268	0.869401
SOWAHC	85.85010847	156.8372148	1.826872646	0.869376
RIF1	2363.079268	4315.9278	1.826399926	0.869003
RB1CC1	2322.355498	4240.413586	1.825910628	0.868616
EPB41	1244.826573	2272.894875	1.825872716	0.868586
BZW2	182.7066411	333.5902664	1.825824526	0.868548
PECR	91.35332055	166.7951332	1.825824526	0.868548
STYX	245.4432588	448.106328	1.825702324	0.868452
METTL13	308.1798766	562.6223896	1.825629875	0.868394
VAPA	1118.252695	2041.373272	1.825502663	0.868294
SUSD2	425.9486151	777.5474618	1.825448972	0.868251
TIMM29	41.82441182	76.34404107	1.825346436	0.86817
RPP25	41.82441182	76.34404107	1.825346436	0.86817
AP4M1	41.82441182	76.34404107	1.825346436	0.86817
LSM1	418.2441182	763.4404107	1.825346436	0.86817
MMAA	209.1220591	381.7202053	1.825346436	0.86817
GTF3A	407.237694	742.6947474	1.823737729	0.866898
XKR8	26.41541799	48.12993894	1.822039649	0.865554
TNPO1P1	26.41541799	48.12993894	1.822039649	0.865554
ENSG000002	26.41541799	48.12993894	1.822039649	0.865554
GLT1D1	13.207709	24.06496947	1.822039649	0.865554
RIMKLBP1	13.207709	24.06496947	1.822039649	0.865554
GDAP2	640.5738863	1166.736106	1.821391928	0.865041
TMEM219	204.7194894	372.5921135	1.820012909	0.863949
RPL26P19	127.6745203	232.3514293	1.819873134	0.863838
TM7SF3	910.2312783	1656.333761	1.819684513	0.863688
NORAD	932.2441266	1696.165434	1.819443412	0.863497
PYROXD1	427.0492575	776.7176352	1.818801044	0.862988
PCMTD1-DT	18.71092108	34.02288787	1.818343829	0.862625
EIF2S3	3087.301978	5612.116845	1.817806255	0.862198
EGLN2	42.92505424	78.00369414	1.817206653	0.861722
IGF2R	4490.621058	8158.02465	1.816680709	0.861305
DLAT	497.4903722	903.6810948	1.816479565	0.861145
ZNF300	217.9271984	395.8272564	1.816327926	0.861025
PDZD11	126.5738779	229.8619497	1.816029923	0.860788
JADE1	272.9593192	495.4064404	1.814946058	0.859927
FAM32A	100.1584599	181.7320108	1.814444941	0.859528
NUP88	761.6445521	1381.661178	1.81404984	0.859214
TMEM242	122.1713082	221.5636844	1.81354925	0.858816
ENSG000002	86.95075089	157.6670413	1.813291314	0.858611
LYSMD1	92.45396297	167.6249597	1.813064085	0.85843
ZSWIM9	92.45396297	167.6249597	1.813064085	0.85843
FBXO41	46.22698148	83.81247987	1.813064085	0.85843
OPA1	1374.702378	2491.96908	1.812733519	0.858167
TANC2	1692.788036	3067.868694	1.812317094	0.857835
SLC9A6	234.4368347	424.8711851	1.812305586	0.857826
TRIO	4785.593226	8672.5171	1.812213594	0.857753
ITGB1BP1	308.1798766	558.473257	1.812166528	0.857716
UTP23	210.2227015	380.8903788	1.81184228	0.857457
ANP32B	1054.415435	1909.430853	1.810890461	0.856699
AHCY	547.0192809	989.9830543	1.809777258	0.855812
C19orf47	159.5931504	288.7796336	1.809473859	0.85557
HSPA12A	82.54818122	149.368776	1.809473859	0.85557
GGCT	66.03854498	119.4950208	1.809473859	0.85557
CORO2B	16.50963624	29.8737552	1.809473859	0.85557
NUTM2A-AS	60.5353329	109.5371024	1.809473859	0.85557
PEX14	88.0513933	159.3266944	1.809473859	0.85557
TCL6	11.00642416	19.9158368	1.809473859	0.85557
INTS6-AS1	11.00642416	19.9158368	1.809473859	0.85557
ENSG000002	11.00642416	19.9158368	1.809473859	0.85557
ENSG000002	11.00642416	19.9158368	1.809473859	0.85557
KISS1R	5.503212081	9.9579184	1.809473859	0.85557
XG	5.503212081	9.9579184	1.809473859	0.85557
OR51B5	5.503212081	9.9579184	1.809473859	0.85557
NHLH2	5.503212081	9.9579184	1.809473859	0.85557
GLUD2	5.503212081	9.9579184	1.809473859	0.85557
HMX2	5.503212081	9.9579184	1.809473859	0.85557
ISCA1P1	5.503212081	9.9579184	1.809473859	0.85557
ANKRD49P2	5.503212081	9.9579184	1.809473859	0.85557
MELTF-AS1	5.503212081	9.9579184	1.809473859	0.85557
SNRPFP1	5.503212081	9.9579184	1.809473859	0.85557
RN7SL329P	5.503212081	9.9579184	1.809473859	0.85557
SCAMP1-AS	5.503212081	9.9579184	1.809473859	0.85557
ENSG000002	5.503212081	9.9579184	1.809473859	0.85557
FRMD6-AS2	5.503212081	9.9579184	1.809473859	0.85557
ENSG000002	5.503212081	9.9579184	1.809473859	0.85557
ENSG000002	5.503212081	9.9579184	1.809473859	0.85557
ENSG000002	5.503212081	9.9579184	1.809473859	0.85557
ASAP1-IT2	5.503212081	9.9579184	1.809473859	0.85557
ZNF584	232.2355498	419.8922259	1.808044574	0.85443
RCN2	669.1905891	1209.887086	1.807985805	0.854383
BBS7	379.7216336	686.2665431	1.807288504	0.853827
PHC1P1	63.83726015	115.3458881	1.80687404	0.853496
TENT4A	621.8629652	1123.585126	1.806805018	0.853441
EMC10	588.8436927	1063.837616	1.806655364	0.853321
DCUN1D4	450.1627483	813.2300027	1.806524431	0.853217
ERC2	52.83083598	95.43005134	1.806332411	0.853063

ARR3	4.402569665	4.444690926	1.009567426	0.013737
LYZL1	4.402569665	4.444690926	1.009567426	0.013737
HMGB1P1	4.402569665	4.444690926	1.009567426	0.013737
AMHR2	4.402569665	4.444690926	1.009567426	0.013737
PROK1	4.402569665	4.444690926	1.009567426	0.013737
SCN2B	4.402569665	4.444690926	1.009567426	0.013737
RGL4	4.402569665	4.444690926	1.009567426	0.013737
EN1	4.402569665	4.444690926	1.009567426	0.013737
RAB4B	4.402569665	4.444690926	1.009567426	0.013737
C2orf73	4.402569665	4.444690926	1.009567426	0.013737
RPSAP19	4.402569665	4.444690926	1.009567426	0.013737
OPCML	4.402569665	4.444690926	1.009567426	0.013737
CCIN	4.402569665	4.444690926	1.009567426	0.013737
OR5W2	4.402569665	4.444690926	1.009567426	0.013737
FABP12	4.402569665	4.444690926	1.009567426	0.013737
APCDD1L	4.402569665	4.444690926	1.009567426	0.013737
PNLIPRP3	4.402569665	4.444690926	1.009567426	0.013737
CBX3P9	4.402569665	4.444690926	1.009567426	0.013737
RPL21P3	4.402569665	4.444690926	1.009567426	0.013737
EEF1DP2	4.402569665	4.444690926	1.009567426	0.013737
PSPC1P1	4.402569665	4.444690926	1.009567426	0.013737
LINC02916	4.402569665	4.444690926	1.009567426	0.013737
ZNF747-DT	4.402569665	4.444690926	1.009567426	0.013737
PRSS56	4.402569665	4.444690926	1.009567426	0.013737
CNTN4-AS1	4.402569665	4.444690926	1.009567426	0.013737
RPL7AP11	4.402569665	4.444690926	1.009567426	0.013737
KLRK1-AS1	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
FAM86HP	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
TPM4P3	4.402569665	4.444690926	1.009567426	0.013737
OR8G5	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
TVP23C-CDI	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
MIR7161	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ENSG000002	4.402569665	4.444690926	1.009567426	0.013737
ADAM20P1	4.402569665	4.444690926	1.009567426	0.013737
PRSS3	2.201284833	2.222345463	1.009567426	0.013737
CCT8L1P	2.201284833	2.222345463	1.009567426	0.013737
FETUB	2.201284833	2.222345463	1.009567426	0.013737
SLC17A6	2.201284833	2.222345463	1.009567426	0.013737
MADCAM1	2.201284833	2.222345463	1.009567426	0.013737
AVP	2.201284833	2.222345463	1.009567426	0.013737
OCA2	2.201284833	2.222345463	1.009567426	0.013737
SLC4A9	2.201284833	2.222345463	1.009567426	0.013737
KIRREL2	2.201284833	2.222345463	1.009567426	0.013737
DEFB118	2.201284833	2.222345463	1.009567426	0.013737
RNASE2CP	2.201284833	2.222345463	1.009567426	0.013737
WDR38	2.201284833	2.222345463	1.009567426	0.013737
SLC39A1	2.201284833	2.222345463	1.009567426	0.013737
NT5DC4	2.201284833	2.222345463	1.009567426	0.013737
NR1I2	2.201284833	2.222345463	1.009567426	0.013737
HEPACAM	2.201284833	2.222345463	1.009567426	0.013737
TERB2	2.201284833	2.222345463	1.009567426	0.013737
DNAJC28	2.201284833	2.222345463	1.009567426	0.013737
OR1D2	2.201284833	2.222345463	1.009567426	0.013737
CHRM5	2.201284833	2.222345463	1.009567426	0.013737
KRT3	2.201284833	2.222345463	1.009567426	0.013737
SBK2	2.201284833	2.222345463	1.009567426	0.013737
MYMK	2.201284833	2.222345463	1.009567426	0.013737
MMP23B	2.201284833	2.222345463	1.009567426	0.013737
GJB4	2.201284833	2.222345463	1.009567426	0.013737
ENSG000001	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
SNORA80B	2.201284833	2.222345463	1.009567426	0.013737
GNRHR2	2.201284833	2.222345463	1.009567426	0.013737
TRAV16	2.201284833	2.222345463	1.009567426	0.013737
TRAV40	2.201284833	2.222345463	1.009567426	0.013737
RPL12P38	2.201284833	2.222345463	1.009567426	0.013737
RPL13AP7	2.201284833	2.222345463	1.009567426	0.013737
LINC00598	2.201284833	2.222345463	1.009567426	0.013737
LINC03010	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
RNF14P4	2.201284833	2.222345463	1.009567426	0.013737
RPL15P11	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
DAZAP2P1	2.201284833	2.222345463	1.009567426	0.013737
LMX1A-AS2	2.201284833	2.222345463	1.009567426	0.013737
POT1-AS1	2.201284833	2.222345463	1.009567426	0.013737
RPL3P7	2.201284833	2.222345463	1.009567426	0.013737
NPM1P39	2.201284833	2.222345463	1.009567426	0.013737
RPF2P1	2.201284833	2.222345463	1.009567426	0.013737
PPIAP66	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ZFAND2A-D	2.201284833	2.222345463	1.009567426	0.013737
PTGES3P3	2.201284833	2.222345463	1.009567426	0.013737
SERPINH1P1	2.201284833	2.222345463	1.009567426	0.013737
RPL21P93	2.201284833	2.222345463	1.009567426	0.013737
RHOQP3	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
DARS1-AS1	2.201284833	2.222345463	1.009567426	0.013737
DFFBP1	2.201284833	2.222345463	1.009567426	0.013737
PPP4R2P5	2.201284833	2.222345463	1.009567426	0.013737
LINC01122	2.201284833	2.222345463	1.009567426	0.013737
BCAS2P2	2.201284833	2.222345463	1.009567426	0.013737

PSMD12	2543.418325	748.930421	3.396067583	1.763865
GDAP1	1214.866045	357.7976195	3.395400021	1.763582
BOLA2B	41.49132667	12.22290005	3.394556653	1.763223
USP37	2141.782283	631.1461115	3.393480913	1.762766
YWHAH	667.1805328	196.6775735	3.392255259	1.762245
PRRG4	161.816174	47.78042745	3.386662335	1.759864
EIF4EP2	199.158368	58.89215477	3.381747005	1.757769
COL8A2	71.36508187	21.1122819	3.380263783	1.757136
CASP1	78.83352067	23.33462736	3.378392097	1.756337
ABR	78.83352067	23.33462736	3.378392097	1.756337
GKAP1	352.6762767	104.4502368	3.3765005	1.755529
CTPS1	1443.898168	427.8015016	3.375159186	1.754956
MED9	116.1757147	34.44635467	3.372656287	1.753885
ETV1	408.2746544	121.1178277	3.370888184	1.753129
C21orf91	999.1111462	296.6831193	3.367603619	1.751722
NT5DC3	945.1724215	281.1267011	3.362086981	1.749357
ID4	261.395358	77.7820912	3.360611086	1.748724
CCDC18-AS	74.684388	22.22345463	3.360611086	1.748724
HNRNPA3P	89.6212656	26.66814555	3.360611086	1.748724
UBR7	22.4053164	6.667036389	3.360611086	1.748724
SSBP3P1	22.4053164	6.667036389	3.360611086	1.748724
UPF3B	463.0432056	137.7854187	3.360611086	1.748724
SLC12A2-D	29.8737552	8.889381852	3.360611086	1.748724
ZNF707	14.9368776	4.444690926	3.360611086	1.748724
FZD9	14.9368776	4.444690926	3.360611086	1.748724
PLCG2	14.9368776	4.444690926	3.360611086	1.748724
ANKHD1-D	14.9368776	4.444690926	3.360611086	1.748724
RTEL1-TNFI	7.4684388	2.222345463	3.360611086	1.748724
NT5DC4	7.4684388	2.222345463	3.360611086	1.748724
JMJD7-PLA	7.4684388	2.222345463	3.360611086	1.748724
METTL7B	7.4684388	2.222345463	3.360611086	1.748724
DYDC1	7.4684388	2.222345463	3.360611086	1.748724
SNHG11	7.4684388	2.222345463	3.360611086	1.748724
TTC9B	7.4684388	2.222345463	3.360611086	1.748724
KTN1-AS1	7.4684388	2.222345463	3.360611086	1.748724
GYPE	7.4684388	2.222345463	3.360611086	1.748724
ANXA2R-A	7.4684388	2.222345463	3.360611086	1.748724
ICMT-DT	7.4684388	2.222345463	3.360611086	1.748724
PTGES3P3	7.4684388	2.222345463	3.360611086	1.748724
DARS1-AS1	7.4684388	2.222345463	3.360611086	1.748724
HDAC1P2	7.4684388	2.222345463	3.360611086	1.748724
TSPY26P	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
SF3A3P2	7.4684388	2.222345463	3.360611086	1.748724
SMIM14-DT	7.4684388	2.222345463	3.360611086	1.748724
ODC1-DT	7.4684388	2.222345463	3.360611086	1.748724
MC1R	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
ENSG000002	7.4684388	2.222345463	3.360611086	1.748724
VPS26C	854.7213294	254.4585555	3.358980513	1.748023
KCNAB2	227.3724701	67.78153662	3.354489755	1.746093
PIP4K2A	1069.646402	318.9065739	3.354105838	1.745928
TRPC3	152.6880821	45.55808199	3.351503739	1.744809
RIF1	4315.9278	1287.849196	3.351268001	1.744707
NPAS4	122.8143269	36.66870014	3.349295898	1.743858
SUPT16H	4753.246383	1421.189924	3.344553958	1.741814
ENO2	1288.720606	385.5769378	3.342317654	1.740849
PGBD5	289.6094601	86.67147305	3.341462305	1.74048
LEPROTL1	486.2783486	145.5636278	3.340658349	1.740132
LINGO1	456.4045934	136.674246	3.33936061	1.739572
DPM1	1279.592514	383.3545923	3.337882316	1.738933
MXD1	181.7320108	54.44746384	3.337749786	1.738876
TEAD1	1419.003372	425.5791561	3.334287762	1.737379
G2E3	1266.31529	380.0210742	3.332223858	1.736485
ARMC1	773.3983291	232.2351009	3.330238737	1.735626
ALG10	961.7689522	288.9049102	3.329015598	1.735096
PYROXD1	776.7176352	233.3462736	3.328605267	1.734918
GTF2F2	343.5481848	103.339064	3.324475843	1.733127
ZNF101	402.4658687	121.1178277	3.322928393	1.732455
RNF186	33.19306133	10.00055458	3.319122061	1.730802
KIF22	1253.867892	377.7987287	3.318878008	1.730696
S100A6	427.3606647	128.8960368	3.31554542	1.729246
NUDT5	1119.435994	337.7965104	3.313935932	1.728546
RSL24D1	235.6707355	71.11505481	3.313935932	1.728546
MTF2	1314.445229	396.6886651	3.313543704	1.728375
GTF2E2	551.8346447	166.6759097	3.310824255	1.72719
SUB1	824.0177476	248.9026918	3.310601993	1.727094
ZNF267	603.2838898	182.232328	3.310520677	1.727058
NOL4L	1080.434146	326.684783	3.307268053	1.72564
TFAP2A-AS	25.72462253	7.77820912	3.307268053	1.72564
EXOC5	2608.974621	788.9326393	3.306967529	1.725509
RTRAF	1770.849822	535.5852566	3.306382692	1.725254
ZNF473	594.9856244	180.0099825	3.305292385	1.724778
RNASEH2B	414.9132667	125.5625187	3.30443568	1.724404
AHR	95.43005134	28.89049102	3.303164743	1.723849
MIX23	95.43005134	28.89049102	3.303164743	1.723849
TENT5D	95.43005134	28.89049102	3.303164743	1.723849
SUV39H1	139.4108576	42.22456379	3.301652997	1.723189
PAXBP1-AS	69.7054288	21.1122819	3.301652997	1.723189
H2BC4	3624.682298	1097.838659	3.301652997	1.723189
TMEM209	700.3735942	212.2339917	3.300006698	1.722469
NEXMIF	1349.297943	408.9115652	3.299730451	1.722348
SAE1	1675.419771	507.8059383	3.299330797	1.722173
MTHFD1L	1183.332637	358.9087923	3.297028833	1.721167
ZNF131	549.3451651	166.6759097	3.295888206	1.720667
TMEM38B	443.1273688	134.4519005	3.295805914	1.720631
CEP76	321.9726949	97.78320037	3.292719953	1.71928
ZNF512B	493.7467874	150.0083187	3.29146271	1.718729

NUBP1	258.6509678	467.1923383	1.806265572	0.85301
TMED9	1668.573903	3012.270316	1.805296314	0.852236
ZSCAN31	145.284799	262.2251845	1.80490448	0.851922
ADAT1	217.9271984	393.3377768	1.80490448	0.851922
PPP4C	268.5567496	484.6186955	1.804529941	0.851623
VCAN	3727.875864	6725.744053	1.80417597	0.85134
LIPE	25.31477557	45.64045934	1.802917794	0.850334
ITGB1	10530.94664	18984.77143	1.802760196	0.850208
C8orf82	140.8822293	253.9269192	1.802405601	0.849924
NUDT6	45.12633907	81.32300027	1.802118274	0.849694
ZNF395	45.12633907	81.32300027	1.802118274	0.849694
ANO9	84.74946605	152.6880821	1.801640639	0.849311
SLU7	1130.359762	2036.394313	1.801545297	0.849235
GSTA1	39.62312699	71.36508187	1.801096665	0.848876
RRAGC	19.81156349	35.68254093	1.801096665	0.848876
C4orf33	19.81156349	35.68254093	1.801096665	0.848876
SRSF9	941.0492659	1694.505781	1.80065576	0.848522
MGME1	224.5310529	404.1255217	1.799864725	0.847888
INPP5K	182.7066411	328.6113072	1.798573414	0.846853
CAD	970.7666112	1745.955026	1.798532218	0.84682
RAB22A	388.526773	698.7139411	1.798367551	0.846688
PLEKHG2	805.6702487	1448.877127	1.798350044	0.846674
PARD6G	71.54175706	128.6231127	1.797874667	0.846292
CHRNE	14.30835141	25.72462253	1.797874667	0.846292
FTH1P8	14.30835141	25.72462253	1.797874667	0.846292
SMOC1	85.85010847	154.3477352	1.797874667	0.846292
IFNAR2	80.34689639	144.3898168	1.797080202	0.845655
PWWP2A	1045.610295	1878.727272	1.796775797	0.84541
PTDSS1	983.9743202	1767.530516	1.796317729	0.845043
CCT6A	974.0685384	1749.274332	1.795843171	0.844661
DDHD2	1216.20987	2184.103436	1.795827751	0.844649
DSCAML1	46.22698148	82.98265334	1.795112955	0.844075
LIPG	23.11349074	41.49132667	1.795112955	0.844075
PLCXD2	23.11349074	41.49132667	1.795112955	0.844075
FIZ1	78.14561156	140.2406841	1.794607289	0.843668
CXXC5	110.0642416	197.4987149	1.79439491	0.843497
ZNF121	730.8265644	1311.125923	1.794031562	0.843205
GTF2F2	191.5117804	343.5481848	1.793874946	0.843079
ZDHHC20	368.7152095	661.3717471	1.793719733	0.842954
ZNF765	241.0406892	432.3396239	1.79363752	0.842888
PABPN1	40.7237694	73.02473494	1.793172292	0.842514
CCDC28A	99.05781747	177.5828781	1.792719471	0.84215
DVL2	355.5075005	637.3067776	1.7926676	0.842108
CCDC87	67.13918739	120.3248473	1.792170147	0.841708
GABPB1	277.3618889	497.0660935	1.7921211	0.841668
PSME3	429.2505424	769.2491964	1.792075072	0.841631
MRPL16	303.7773069	544.3662059	1.791991019	0.841563
GPSM1	155.1905807	277.9918887	1.791293566	0.841002
CANX	252.0471133	451.4256342	1.791036716	0.840795
VAV3	366.5139246	656.3927879	1.790908186	0.840691
HNRNPF	2094.522518	3750.815931	1.790773744	0.840583
ATP6V1C2	17.61027866	31.53340827	1.790625173	0.840463
HINT2	8.80513933	15.76670413	1.790625173	0.840463
RAB42	8.80513933	15.76670413	1.790625173	0.840463
RPS24P8	8.80513933	15.76670413	1.790625173	0.840463
TM4SF19-AS	8.80513933	15.76670413	1.790625173	0.840463
ENSG000002	8.80513933	15.76670413	1.790625173	0.840463
TRMT61A-D	8.80513933	15.76670413	1.790625173	0.840463
ENSG000002	8.80513933	15.76670413	1.790625173	0.840463
ENSG000002	8.80513933	15.76670413	1.790625173	0.840463
SCAMP1	554.7237778	993.3023604	1.790625173	0.840463
SLC27A4	158.4925079	283.8006744	1.790625173	0.840463
RAB20	61.63597531	110.3669289	1.790625173	0.840463
PELI2	355.5075005	636.4769511	1.790333397	0.840228
ROMO1	285.0663858	510.343318	1.790261298	0.84017
MICOS13	100.1584599	179.2425312	1.789589531	0.839629
LRRC8B	440.2569665	787.5053802	1.788740304	0.838944
SLC2A3	103.4603871	185.0513169	1.788619993	0.838847
ILF3	2232.10282	3990.635799	1.787836906	0.838215
UQCRH	617.4603955	1103.669289	1.787433327	0.837889
FNTB	29.71734524	53.10889814	1.787134675	0.837648
BCL7A	101.2591023	180.9021843	1.786527632	0.837158
RBBP4P1	71.54175706	127.7932861	1.786275476	0.836955
MAPRE2	310.3811614	554.3241243	1.785946421	0.836689
PRELID2	83.64882364	149.368776	1.785664992	0.836461
ARPC1A	20.91220591	37.342194	1.785664992	0.836461
ENSG000002	20.91220591	37.342194	1.785664992	0.836461
EXT1	1482.565335	2646.316815	1.784957973	0.83589
DEXI	53.9314784	96.25987787	1.784855167	0.835807
JKAMP	626.2655349	1117.77634	1.784828125	0.835785
PSMD4	416.0428334	741.8649208	1.783145535	0.834424
INTS13	646.0770984	1151.799228	1.782758174	0.834111
MTMR2	1251.430427	2230.573722	1.78241928	0.833837
ENSA	489.7858753	872.9775131	1.782365636	0.833793
RTN4	2071.409027	3691.898247	1.782312522	0.83375
AKAP17A	12.10706658	21.57548987	1.782057588	0.833544
DNAJC10	1155.674537	2058.799629	1.781470097	0.833068
AP5M1	685.7002254	1221.504657	1.781397485	0.833009
CEP57	479.8800935	854.7213294	1.781114368	0.83278
LMO2	39.62312699	70.53525534	1.78015368	0.832002
ABHD3	173.9015018	309.5252969	1.779888579	0.831787
LPIN1	485.3833056	863.8494212	1.779726273	0.831655
CNOT6L	920.13706	1637.24775	1.779352035	0.831352
ENSG000002	27.51606041	48.95976547	1.779315961	0.831323
MAP4K2	168.3982897	299.5673785	1.77892174	0.831003
RBM8A	113.3661689	201.6478476	1.778730371	0.830848
VSIG10	202.5182046	360.1447155	1.778332551	0.830525
PEF1	116.6680961	207.4566333	1.778177927	0.8304
EID2	73.74304189	131.1125923	1.777965607	0.830227
RRP1	119.9700234	213.2654191	1.777655893	0.829976
WDR74	150.788011	268.0339703	1.777554916	0.829894

LINC01250	2.201284833	2.222345463	1.009567426	0.013737
RPSAP9	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
PSMC1P10	2.201284833	2.222345463	1.009567426	0.013737
RNF217-AS1	2.201284833	2.222345463	1.009567426	0.013737
KRT18P52	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
PHKA2-AS1	2.201284833	2.222345463	1.009567426	0.013737
RNF14P3	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
RPL21P4	2.201284833	2.222345463	1.009567426	0.013737
RPL21P125	2.201284833	2.222345463	1.009567426	0.013737
RPL8P3	2.201284833	2.222345463	1.009567426	0.013737
RPL22P2	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
RPL37P23	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
DEPTOR-AS	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
PPP4R2P4	2.201284833	2.222345463	1.009567426	0.013737
EAF1-AS1	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
CRYZL2P-SE	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
RHPN1-AS1	2.201284833	2.222345463	1.009567426	0.013737
CAPN1-AS1	2.201284833	2.222345463	1.009567426	0.013737
HCAR3	2.201284833	2.222345463	1.009567426	0.013737
FUNDC2P1	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ARPC3P3	2.201284833	2.222345463	1.009567426	0.013737
GPR84-AS1	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
POU2F2-AS2	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ST3GAL1-DT	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
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ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
SPDYE22P	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
BRCA1P1	2.201284833	2.222345463	1.009567426	0.013737
ZNF725P	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
H4C14	2.201284833	2.222345463	1.009567426	0.013737
VDAC3P1	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
C2orf49-DT	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
PCDHGB9P	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
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ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
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RASSF1-AS1	2.201284833	2.222345463	1.009567426	0.013737
ABALON	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
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LINC02348	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
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ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ENSG000002	2.201284833	2.222345463	1.009567426	0.013737
ZNF781.1	2.201284833	2.222345463	1.009567426	0.013737
SMG1P5.1	2.201284833	2.222345463	1.009567426	0.013737
SERPINA4	1.100642416	1.111172731	1.009567426	0.013737
HRH3	1.100642416	1.111172731	1.009567426	0.013737
SPINT3	1.100642416	1.111172731	1.009567426	0.013737
ADAP1	1.100642416	1.111172731	1.009567426	0.013737
MYL7	1.100642416	1.111172731	1.009567426	0.013737
CSF3	1.100642416	1.111172731	1.009567426	0.013737
CCKBR	1.100642416	1.111172731	1.009567426	0.013737
HNRNPR	1.100642416	1.111172731	1.009567426	0.013737
FFAR1	1.100642416	1.111172731	1.009567426	0.013737
HAT1	1.100642416	1.111172731	1.009567426	0.013737
ANGPTL8	1.100642416	1.111172731	1.009567426	0.013737
EIF5A	1.100642416	1.111172731	1.009567426	0.013737
UNC79	1.100642416	1.111172731	1.009567426	0.013737
C6orf52	1.100642416	1.111172731	1.009567426	0.013737
GOLGA6D	1.100642416	1.111172731	1.009567426	0.013737
CARD14	1.100642416	1.111172731	1.009567426	0.013737
REG3G	1.100642416	1.111172731	1.009567426	0.013737
AMT	1.100642416	1.111172731	1.009567426	0.013737
ACTL7B	1.100642416	1.111172731	1.009567426	0.013737
CACNA2D4	1.100642416	1.111172731	1.009567426	0.013737
TGM4	1.100642416	1.111172731	1.009567426	0.013737
PRDM9	1.100642416	1.111172731	1.009567426	0.013737
SCGB3A2	1.100642416	1.111172731	1.009567426	0.013737

AKIRIN2	215.7548987	65.55919115	3.290993908	1.718523
DUSP9	36.51236747	11.11172731	3.28593084	1.716302
RASD2	18.25618373	5.555863657	3.28593084	1.716302
NSD3	9564.580624	2911.272556	3.285360762	1.716052
LIG1	1273.783729	387.7992833	3.284646939	1.715738
MRPS21	386.6991645	117.7843095	3.283112718	1.715064
CEP63	138.5810311	42.22456379	3.282000301	1.714575
MRE11	1560.073883	475.5819291	3.28034727	1.713849
MEIS1	353.5061032	107.7837549	3.279771644	1.713595
SNX10	178.4127047	54.44746384	3.27678632	1.712282
NSMCE2	538.5574202	164.4535643	3.274829722	1.71142
CSNK1G1	170.9442659	52.22511838	3.273219309	1.71071
AP3M2	795.8036455	243.3468282	3.270244578	1.709399
HDAC2	2467.074284	754.4862846	3.269872937	1.709235
CEROX1	29.04392867	8.889381852	3.267260778	1.708082
QPCT	126.9634596	38.8910456	3.264593627	1.706903
SAMD9	612.4119816	187.7881916	3.261184723	1.705396
CNIH4	575.8996142	176.6764643	3.259628363	1.704707
NUDT21	130.2827657	40.00221833	3.256888522	1.703494
PLIN2	311.18495	95.5608549	3.256406091	1.703281
CABP4	90.45109214	27.77931829	3.256058741	1.703127
STIP1	2980.736908	915.6063307	3.255478701	1.70287
RSRC1	646.4348695	198.8999189	3.250050945	1.700462
COX6C	2867.050673	882.2711488	3.24962533	1.700273
SMARCA5	5807.12608	1787.876925	3.248056955	1.699577
ZNF829	93.77039827	28.89049102	3.2457184	1.698538
MRPL44	407.4448279	125.5625187	3.244955838	1.698199
CHAF1A	1448.047301	446.691438	3.241717162	1.696758
DMKN	446.446675	137.7854187	3.240159076	1.696065
FGF9	43.15097974	13.33407278	3.236144009	1.694276
ABCF2	21.57548987	6.667036389	3.236144009	1.694276
PTEN	21.57548987	6.667036389	3.236144009	1.694276
RNY1	21.57548987	6.667036389	3.236144009	1.694276
OASL	10.78774493	3.333518194	3.236144009	1.694276
NRTN	10.78774493	3.333518194	3.236144009	1.694276
RPL12P20	10.78774493	3.333518194	3.236144009	1.694276
CFHR1	10.78774493	3.333518194	3.236144009	1.694276
OXA1L-DT	10.78774493	3.333518194	3.236144009	1.694276
ENSG000002	10.78774493	3.333518194	3.236144009	1.694276
MILIP	10.78774493	3.333518194	3.236144009	1.694276
ENSG000002	10.78774493	3.333518194	3.236144009	1.694276
ENSG000002	10.78774493	3.333518194	3.236144009	1.694276
ENSG000002	10.78774493	3.333518194	3.236144009	1.694276
EEF1AKMT4	10.78774493	3.333518194	3.236144009	1.694276
PPP5D1P	10.78774493	3.333518194	3.236144009	1.694276
SNHG7	53.93872467	16.66759097	3.236144009	1.694276
ZNF22	377.5710727	116.6731368	3.236144009	1.694276
SSB	1350.957596	417.800947	3.233495773	1.693095
NDUFB3	793.3141659	245.5691736	3.230512015	1.691763
TMEM47	595.815451	184.4546734	3.230145596	1.691599
ZNF430	179.2425312	55.55863657	3.226186643	1.68983
LCA5L	89.6212656	27.77931829	3.226186643	1.68983
ENTPD2	963.4286052	298.9054648	3.223188328	1.688488
KCNH2	386.6991645	120.006655	3.222314334	1.688097
KCNN3	125.3038065	38.8910456	3.2219192	1.68792
ZNF155	365.1236747	113.3396186	3.221500824	1.687733
MDM2	1620.65122	503.3612473	3.219658304	1.686908
MGME1	404.1255217	125.5625187	3.218520352	1.686398
RBM48	185.8811435	57.78098203	3.216995228	1.685714
CFAP45	46.47028587	14.44524551	3.216995228	1.685714
CAND2	199.9881945	62.22567296	3.213917745	1.684333
ACADM	1753.423465	545.5858111	3.213836264	1.684296
TERF1	649.7541756	202.2334371	3.212891918	1.683872
PIMREG	142.7301637	44.44690926	3.211250594	1.683135
SLC8A2	71.36508187	22.22345463	3.211250594	1.683135
C4orf33	35.68254093	11.11172731	3.211250594	1.683135
STX18-AS1	35.68254093	11.11172731	3.211250594	1.683135
PITHD1	642.2857368	200.0110917	3.211250594	1.683135
NKAPD1	299.5673785	93.33850944	3.209472493	1.682336
RBIS	570.0908284	177.787637	3.206583078	1.681037
IDI1	790.8246863	246.6803464	3.205868234	1.680715
TMEM68	719.4596044	224.4568918	3.205335327	1.680475
BRK1	683.7770635	213.3451644	3.20502724	1.680337
B3GNT2	502.0450527	156.6753551	3.204365181	1.680039
IFRD1	24.894796	7.77820912	3.200581987	1.678334
NTS	24.894796	7.77820912	3.200581987	1.678334
MRPL22	252.2672661	78.89326393	3.197576746	1.676979
MORN2	479.6397363	150.0083187	3.197420918	1.676909
CEP250	3819.691533	1195.621859	3.1947321	1.675695
UBE2D2	614.0716347	192.2328825	3.194415162	1.675552
STK38L	1078.774493	337.7965104	3.193563167	1.675167
ZNF569	528.5995018	165.564737	3.192705834	1.67478
UBE2N	1614.012607	505.5835928	3.192375367	1.67463
RHEB	439.8080627	137.7854187	3.191978272	1.674451
MAGOHB	336.9095725	105.5614095	3.191597897	1.674279
STK4	1219.845004	382.2434196	3.19127797	1.674134
MYCT1	39.00184707	12.22290005	3.190883254	1.673956
SRP19	39.00184707	12.22290005	3.190883254	1.673956
AP3S2	39.00184707	12.22290005	3.190883254	1.673956
EGLN2	78.00369414	24.44580009	3.190883254	1.673956
ZNF572	336.079746	105.5614095	3.183736819	1.670721
CYCS	742.6947474	233.3462736	3.182800976	1.670297
DDB2	353.5061032	111.1172731	3.181378495	1.669652
UBXN2A	604.1137163	190.0105371	3.179369553	1.668741
GXYLT1	303.7165112	95.5608549	3.178252345	1.668234
MRPL15	780.0369414	245.5691736	3.176444868	1.667413
SIPA1L2	4198.092432	1322.29555	3.174851818	1.666689
FPR2	28.21410213	8.889381852	3.17391047	1.666261
GMPR2	14.10705107	4.444690926	3.17391047	1.666261
PLCL2	14.10705107	4.444690926	3.17391047	1.666261
HESX1	14.10705107	4.444690926	3.17391047	1.666261

ELAVL1	1314.167045	2335.961691	1.777522652	0.829868
ENSG000002	15.40899383	27.3842756	1.777161826	0.829575
ENSG000002	15.40899383	27.3842756	1.777161826	0.829575
SRSF10	857.4004423	1523.561515	1.776954431	0.829407
OAZ1	972.967896	1728.528669	1.776552624	0.82908
CASK	1429.734499	2539.269192	1.776042471	0.828666
SDR42E1	83.64882364	148.5389495	1.775744631	0.828424
HNRNPK	4157.126406	7380.477188	1.775379545	0.828127
ZDHHC17	947.6531204	1682.058383	1.774972663	0.827797
WBP11	1562.912231	2773.280275	1.774431231	0.827357
MEX3D	303.7773069	538.5574202	1.772869164	0.826086
TAF12	244.3426164	433.1694504	1.772795335	0.826026
H2BC5	1599.233431	2834.687438	1.772528877	0.825809
ENSG000002	22.01284833	39.00184707	1.771776487	0.825197
PPA1	336.7965794	596.6452775	1.771530099	0.824996
MS4A8	69.34047223	122.8143269	1.771178116	0.824709
RAD23B	2862.770925	5070.240119	1.771095296	0.824642
ZFHX3-AS1	25.31477557	44.8106328	1.77013747	0.823861
UTP20	1382.406875	2446.32862	1.769615491	0.823436
GABARAPL2	279.5631737	494.5766139	1.769105019	0.82302
PNPT1	673.5931588	1191.630902	1.769066218	0.822988
RAB2A	1472.659553	2604.825488	1.768789998	0.822763
COP1	760.5439097	1345.148811	1.768666863	0.822662
GCNT1	544.8179961	963.4286052	1.768349453	0.822403
GTF3C6	92.45396297	163.4758271	1.768186261	0.82227
H2AC6	861.803012	1523.561515	1.767876759	0.822018
ENOPH1	201.4175622	355.9955828	1.767450559	0.82167
NAGPA	67.13918739	118.6651943	1.767450559	0.82167
PRELID3B	377.5203488	667.1805328	1.767270387	0.821523
CBFB	314.7837311	555.9837774	1.766240509	0.820682
ALG11	237.7387619	419.8922259	1.766191691	0.820642
BMP8A	80.34689639	141.9003372	1.766096061	0.820564
ALDH3A2	1124.856549	1986.604721	1.766096061	0.820564
SFN	282.865101	499.5555731	1.766055874	0.820531
ZNF585B	573.4346989	1012.388371	1.765481532	0.820062
TXNDC9	267.4561072	472.1712975	1.765416025	0.820008
NT5C	58.33404806	102.8984901	1.763952504	0.818812
ESRP1	2178.171342	3842.096849	1.763909375	0.818776
TMEM145	61.63597531	108.7072759	1.763698478	0.818604
ZNF579	61.63597531	108.7072759	1.763698478	0.818604
RPIA	136.4796596	240.6496947	1.763264177	0.818249
C11orf58	730.8265644	1287.89078	1.762238597	0.817409
CCDC110	114.4668113	201.6478476	1.761627194	0.816909
BMF	117.7687385	207.4566333	1.761559442	0.816853
TUBGCP3	356.6081429	628.1786858	1.761537694	0.816835
ZNF627	248.7451861	438.1484096	1.76143473	0.816751
MPPE1	124.372593	219.0742048	1.76143473	0.816751
RRAGB	390.7280578	687.9261962	1.76062656	0.816089
CHUK	289.4689555	509.5134915	1.760166269	0.815712
UGP2	819.9786001	1443.068342	1.759885369	0.815481
AK2	801.2676791	1409.87528	1.75955591	0.815211
PRSS27	16.50963624	29.04392867	1.759210696	0.814928
ALX1	16.50963624	29.04392867	1.759210696	0.814928
ZNF597	95.75589022	168.4547863	1.759210696	0.814928
RP1	36.32119974	63.89664307	1.759210696	0.814928
TTC29	6.603854498	11.61757147	1.759210696	0.814928
SLC30A8	6.603854498	11.61757147	1.759210696	0.814928
DNAAF8	6.603854498	11.61757147	1.759210696	0.814928
MPPED1	6.603854498	11.61757147	1.759210696	0.814928
LPAL2	6.603854498	11.61757147	1.759210696	0.814928
MTND2P2	6.603854498	11.61757147	1.759210696	0.814928
PRKAR1AP1	6.603854498	11.61757147	1.759210696	0.814928
FREY1	6.603854498	11.61757147	1.759210696	0.814928
PA2G4P2	6.603854498	11.61757147	1.759210696	0.814928
JDP2-AS1	6.603854498	11.61757147	1.759210696	0.814928
ENSG000002	6.603854498	11.61757147	1.759210696	0.814928
ENSG000002	6.603854498	11.61757147	1.759210696	0.814928
AGT	99.05781747	174.263572	1.759210696	0.814928
KCNA3	85.85010847	151.0284291	1.759210696	0.814928
GABPB1-IT1	29.71734524	52.2790716	1.759210696	0.814928
SLC31A2	23.11349074	40.66150013	1.759210696	0.814928
RAB13	23.11349074	40.66150013	1.759210696	0.814928
MED20	19.81156349	34.8527144	1.759210696	0.814928
MTND1P32	9.905781747	17.4263572	1.759210696	0.814928
ENSG000002	9.905781747	17.4263572	1.759210696	0.814928
ENSG000002	9.905781747	17.4263572	1.759210696	0.814928
PDZD8	2595.314818	4565.705587	1.759210696	0.814928
AFP	3.301927249	5.808785734	1.759210696	0.814928
CRYM	3.301927249	5.808785734	1.759210696	0.814928
FCER2	3.301927249	5.808785734	1.759210696	0.814928
SCGB2A2	3.301927249	5.808785734	1.759210696	0.814928
DHH	3.301927249	5.808785734	1.759210696	0.814928
RPS9	3.301927249	5.808785734	1.759210696	0.814928
ABRA	3.301927249	5.808785734	1.759210696	0.814928
GALNTL6	3.301927249	5.808785734	1.759210696	0.814928
CLEC17A	3.301927249	5.808785734	1.759210696	0.814928
TECRL	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
SLC8A1-AS1	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
MORF4L2-AS	3.301927249	5.808785734	1.759210696	0.814928
KIAA1614-A	3.301927249	5.808785734	1.759210696	0.814928
TMEM18-DT	3.301927249	5.808785734	1.759210696	0.814928
MYCNOS	3.301927249	5.808785734	1.759210696	0.814928
PSIP1P1	3.301927249	5.808785734	1.759210696	0.814928
API5P1	3.301927249	5.808785734	1.759210696	0.814928
KRT18P15	3.301927249	5.808785734	1.759210696	0.814928
HIPK1-AS1	3.301927249	5.808785734	1.759210696	0.814928
DCLRE1CP1	3.301927249	5.808785734	1.759210696	0.814928
MVP-DT	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928

FAM86FP	1.100642416	1.111172731	1.009567426	0.013737
SOHLH1	1.100642416	1.111172731	1.009567426	0.013737
AGBL2	1.100642416	1.111172731	1.009567426	0.013737
POTED	1.100642416	1.111172731	1.009567426	0.013737
ATP23	1.100642416	1.111172731	1.009567426	0.013737
LALBA	1.100642416	1.111172731	1.009567426	0.013737
BRD7P3	1.100642416	1.111172731	1.009567426	0.013737
RAB24	1.100642416	1.111172731	1.009567426	0.013737
RNF139	1.100642416	1.111172731	1.009567426	0.013737
NDUFA11	1.100642416	1.111172731	1.009567426	0.013737
ENSG000001	1.100642416	1.111172731	1.009567426	0.013737
TAC4	1.100642416	1.111172731	1.009567426	0.013737
LINC01561	1.100642416	1.111172731	1.009567426	0.013737
ENSG000001	1.100642416	1.111172731	1.009567426	0.013737
FDX1P1	1.100642416	1.111172731	1.009567426	0.013737
LINC00471	1.100642416	1.111172731	1.009567426	0.013737
ENSG000001	1.100642416	1.111172731	1.009567426	0.013737
SREBF2-AS1	1.100642416	1.111172731	1.009567426	0.013737
KRTAP6-1	1.100642416	1.111172731	1.009567426	0.013737
KLHL33	1.100642416	1.111172731	1.009567426	0.013737
SPATA31A6	1.100642416	1.111172731	1.009567426	0.013737
TAL2	1.100642416	1.111172731	1.009567426	0.013737
GOLGA8R	1.100642416	1.111172731	1.009567426	0.013737
DEFB132	1.100642416	1.111172731	1.009567426	0.013737
EEF1GP1	1.100642416	1.111172731	1.009567426	0.013737
GOLGA6EP	1.100642416	1.111172731	1.009567426	0.013737
OR5H7P	1.100642416	1.111172731	1.009567426	0.013737
LCN10	1.100642416	1.111172731	1.009567426	0.013737
NUTM2G	1.100642416	1.111172731	1.009567426	0.013737
SRP72P2	1.100642416	1.111172731	1.009567426	0.013737
CYP51A1-AS	1.100642416	1.111172731	1.009567426	0.013737
GUSBP15	1.100642416	1.111172731	1.009567426	0.013737
OR14A16	1.100642416	1.111172731	1.009567426	0.013737
KRTAP13-1	1.100642416	1.111172731	1.009567426	0.013737
LTN1	1.100642416	1.111172731	1.009567426	0.013737
RNA5SP188	1.100642416	1.111172731	1.009567426	0.013737
Y_RNA.26	1.100642416	1.111172731	1.009567426	0.013737
Y_RNA.34	1.100642416	1.111172731	1.009567426	0.013737
RNU1-100P	1.100642416	1.111172731	1.009567426	0.013737
PDCD4-AS1	1.100642416	1.111172731	1.009567426	0.013737
H3C15	1.100642416	1.111172731	1.009567426	0.013737
C10orf62	1.100642416	1.111172731	1.009567426	0.013737
TCEA3	1.100642416	1.111172731	1.009567426	0.013737
PAGE3	1.100642416	1.111172731	1.009567426	0.013737
MRPL38	1.100642416	1.111172731	1.009567426	0.013737
HSPA1B	1.100642416	1.111172731	1.009567426	0.013737
PCDHA2	1.100642416	1.111172731	1.009567426	0.013737
LINC01597	1.100642416	1.111172731	1.009567426	0.013737
RP9P	1.100642416	1.111172731	1.009567426	0.013737
HSP90AB2P	1.100642416	1.111172731	1.009567426	0.013737
SNORA70B	1.100642416	1.111172731	1.009567426	0.013737
RNY1P14	1.100642416	1.111172731	1.009567426	0.013737
Y_RNA.97	1.100642416	1.111172731	1.009567426	0.013737
MIR23B	1.100642416	1.111172731	1.009567426	0.013737
MIR200A	1.100642416	1.111172731	1.009567426	0.013737
TRGJP	1.100642416	1.111172731	1.009567426	0.013737
TRAV12-3	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
YWHAZP2	1.100642416	1.111172731	1.009567426	0.013737
PCNPP3	1.100642416	1.111172731	1.009567426	0.013737
RPL17P34	1.100642416	1.111172731	1.009567426	0.013737
HNRNPA1P6	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL29P5	1.100642416	1.111172731	1.009567426	0.013737
SETP22	1.100642416	1.111172731	1.009567426	0.013737
NPM1P6	1.100642416	1.111172731	1.009567426	0.013737
LTB4R	1.100642416	1.111172731	1.009567426	0.013737
DNAJB1P1	1.100642416	1.111172731	1.009567426	0.013737
RPS10P2	1.100642416	1.111172731	1.009567426	0.013737
RPSAP61	1.100642416	1.111172731	1.009567426	0.013737
MRPL23	1.100642416	1.111172731	1.009567426	0.013737
MANEALP1	1.100642416	1.111172731	1.009567426	0.013737
PRCD	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL21P1	1.100642416	1.111172731	1.009567426	0.013737
HMGB1P4	1.100642416	1.111172731	1.009567426	0.013737
NLRP2B	1.100642416	1.111172731	1.009567426	0.013737
FAM66B	1.100642416	1.111172731	1.009567426	0.013737
CFL1P6	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PRELID1P1	1.100642416	1.111172731	1.009567426	0.013737
ASS1P9	1.100642416	1.111172731	1.009567426	0.013737
HNRNPA1P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
SELENOKP2	1.100642416	1.111172731	1.009567426	0.013737
PPIAP74	1.100642416	1.111172731	1.009567426	0.013737
PTPN11P3	1.100642416	1.111172731	1.009567426	0.013737
RPL35P2	1.100642416	1.111172731	1.009567426	0.013737
RPL5P18	1.100642416	1.111172731	1.009567426	0.013737
LINC02902	1.100642416	1.111172731	1.009567426	0.013737
LINC01124	1.100642416	1.111172731	1.009567426	0.013737
ADH5P3	1.100642416	1.111172731	1.009567426	0.013737
CERS1	1.100642416	1.111172731	1.009567426	0.013737
NPM1P19	1.100642416	1.111172731	1.009567426	0.013737
ZNF587P1	1.100642416	1.111172731	1.009567426	0.013737
EGFR-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
TEX26-AS1	1.100642416	1.111172731	1.009567426	0.013737
LINC01645	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737

ATF4P3	14.10705107	4.444690926	3.17391047	1.666261
SAP30L-AS1	14.10705107	4.444690926	3.17391047	1.666261
DUT-AS1	14.10705107	4.444690926	3.17391047	1.666261
ARNT2-DT	14.10705107	4.444690926	3.17391047	1.666261
LRRC4B	42.3211532	13.33407278	3.17391047	1.666261
SF3B6	1987.434547	626.7014205	3.171262235	1.665057
SLC12A5	214.9250721	67.78153662	3.170849805	1.66487
CHCHD4	147.7091229	46.66925472	3.165019965	1.662215
YBEY	281.3111948	88.89381852	3.16457544	1.662012
RBP1	400.8062156	126.6736914	3.164084122	1.661788
KATNA1	878.7862988	277.7931829	3.163455236	1.661501
CEP295	2867.050673	906.7169489	3.162012882	1.660843
BCL2L11	948.4917276	300.0166375	3.161463763	1.660593
PDIA3P1	1028.984901	325.5736103	3.160529198	1.660166
YEATS4	136.921378	43.33573653	3.159548885	1.659719
MEDAG	77.1738676	24.44580009	3.156937687	1.658526
ENSG000002	31.53340827	10.00055458	3.153165958	1.656801
OSGIN2	1909.430853	605.5891386	3.153013704	1.656731
MEX3A	490.4274812	155.5641824	3.152573257	1.65653
PGK1	3475.313522	1103.394522	3.149656312	1.655194
MARCKSL1	916.1284928	291.1272556	3.146831755	1.6539
SPSB1	132.7722453	42.22456379	3.144431426	1.652799
KCNK17	300.3972051	95.5608549	3.143517347	1.65238
ZNF879	401.6360421	127.7848641	3.143064282	1.652172
PCNT	4812.993894	1533.418369	3.138734992	1.650183
ZNF669	432.3396239	137.7854187	3.137774867	1.649742
LSM1	763.4404107	243.3468282	3.137252359	1.649502
ENSG000002	34.8527144	11.11172731	3.136570347	1.649188
PNP	17.4263572	5.555863657	3.136570347	1.649188
LDHBP2	17.4263572	5.555863657	3.136570347	1.649188
RWDD4P1	17.4263572	5.555863657	3.136570347	1.649188
FAM86C2P	17.4263572	5.555863657	3.136570347	1.649188
ENSG000002	17.4263572	5.555863657	3.136570347	1.649188
THAP12	1745.955026	556.6975385	3.136272223	1.649051
CD2AP	1936.815129	617.8120387	3.134958543	1.648446
ILF2	3322.62544	1060.058786	3.134378474	1.648179
PIN4	344.3780113	110.0061004	3.13053558	1.646409
INO80C	73.02473494	23.33462736	3.129457943	1.645913
PTPRJ	1105.328942	353.3529286	3.12811598	1.645294
TESC	409.9343075	131.1183823	3.126444212	1.644523
RPP25	76.34404107	24.44580009	3.122992121	1.642929
UCHL5	891.2336968	285.571392	3.120878778	1.641952
TTL	1033.134034	331.129474	3.120030427	1.64156
TYW3	356.8254093	114.4507913	3.117719023	1.640491
STRIP2	218.2443783	70.00388208	3.117603936	1.640438
UNC80	914.4688398	293.3496011	3.117334526	1.640313
GDF11	79.6633472	25.55697282	3.117088544	1.640199
UTP11	380.8903788	122.2290005	3.116203007	1.639789
SCD	864.6792478	277.7931829	3.112672668	1.638154
FRMD5	41.49132667	13.33407278	3.111676932	1.637692
ENSG000002	41.49132667	13.33407278	3.111676932	1.637692
SNHG5	20.74566333	6.667036389	3.111676932	1.637692
C5orf22	770.9088495	247.7915191	3.111118783	1.637433
PANK2	1264.655637	406.6892197	3.109636488	1.636746
COL6A6	190.0302761	61.11450023	3.109413894	1.636643
MRPL1	445.6168484	143.3412824	3.108782349	1.63635
EIF3J	148.5389495	47.78042745	3.108782349	1.63635
ADGRB2	552.6644712	177.787637	3.108565255	1.636249
DZIP1L	127.7932861	41.11339106	3.108312957	1.636132
DSC2	1755.912945	565.5869203	3.104585487	1.634401
BNIP3	1984.945068	640.0354933	3.101304675	1.632875
TCP1	6519.117246	2102.338808	3.100888031	1.632681
ZNF232	554.3241243	178.8988098	3.098534445	1.631586
IMPA2	468.0221648	151.1194915	3.097033746	1.630887
BCAR3	234.0110824	75.55974574	3.097033746	1.630887
LAMP3	306.2059908	98.8943731	3.09629336	1.630542
ZNF770	2131.824364	688.9270935	3.094412144	1.629665
TLDC2	24.06496947	7.77820912	3.093895921	1.629425
UCK2	600.7944102	194.455228	3.089628478	1.627433
HOXD8	250.6076131	81.11560939	3.089511562	1.627379
MTMR10	75.51421454	24.44580009	3.089046554	1.627162
MTCL1	882.105605	285.571392	3.08891447	1.6271
DNAJC19	126.9634596	41.11339106	3.088129106	1.626733
PRKDC	39899.71938	12927.38356	3.086449721	1.625948
NUP155	4650.347893	1506.750224	3.086342925	1.625898
SOX11	418.2325728	135.5630732	3.085151161	1.625341
GABPB1	497.0660935	161.1200461	3.085066729	1.625302
SNORD3A	619.8804204	201.1222644	3.082107405	1.623917
PTH2R	54.7685512	17.7787637	3.080560163	1.623193
C5orf58	27.3842756	8.889381852	3.080560163	1.623193
ST3GAL3	82.1528268	26.66814555	3.080560163	1.623193
SRPK1	2583.249998	838.9354122	3.079200092	1.622556
RFXAP	88.79143907	28.89049102	3.07337937	1.619826
EIF2AK2	3198.15146	1041.168849	3.071693378	1.619034
PNO1	211.605766	68.89270935	3.071526262	1.618956
ATP5F1E	2248.829905	732.26283	3.071069312	1.618741
ZNG1A	887.0845642	288.9049102	3.070507052	1.618477
TEX15	61.40716347	20.00110917	3.070187906	1.618327
HOXB5	30.70358173	10.00055458	3.070187906	1.618327
PSD	92.1107452	30.00166375	3.070187906	1.618327
PHAX	368.4429808	120.006655	3.070187906	1.618327
CEP43	279.6515417	91.11616398	3.069175979	1.617851
TPP2	1769.190169	576.6986476	3.067789696	1.6172
SPATA5	1342.659331	437.8020562	3.066818239	1.616743
NUP50	671.3296655	218.9010281	3.066818239	1.616743
VEZF1	3916.781237	1277.848641	3.065137068	1.615952
CFAP20	789.9948598	257.7920737	3.064465282	1.615635
DLL4	132.7722453	43.33573653	3.063804979	1.615324
SLC33A1	34.02288787	11.11172731	3.061890101	1.614423
MXRA5	826.5072272	270.0149737	3.060968123	1.613988
SRR	669.6700124	218.9010281	3.059236488	1.613172

PELP1-DT	3.301927249	5.808785734	1.759210696	0.814928
GNAO1-DT	3.301927249	5.808785734	1.759210696	0.814928
TRPC6P2	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
SDHCP4	3.301927249	5.808785734	1.759210696	0.814928
NPIPB8	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
LINC02284	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
CDK13-DT	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
PTGES3L	3.301927249	5.808785734	1.759210696	0.814928
ZNF45-AS1	3.301927249	5.808785734	1.759210696	0.814928
ZNF497-AS1	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
SELENOO-A	3.301927249	5.808785734	1.759210696	0.814928
PCCA-DT	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
ENSG000002	3.301927249	5.808785734	1.759210696	0.814928
SEMA6A	250.9464709	441.4677158	1.759210696	0.814928
ZNF45	377.5203488	663.8612267	1.758477997	0.814327
UQCRB	2853.965785	5017.961047	1.758241487	0.814133
TRAF7	477.6788087	839.7844518	1.758052559	0.813978
SLX4	368.7152095	648.0945226	1.757710303	0.813697
SPRTN	172.8008594	303.7165112	1.757609958	0.813615
RAVER1	342.2997915	601.6242367	1.757594517	0.813602
TBC1D7	166.1970049	292.0989397	1.757546353	0.813563
AHSA1	1132.561046	1989.0942	1.756279899	0.812523
MTCH1	1094.038562	1921.048425	1.755923869	0.81223
CNIH4	327.9914401	575.8996142	1.755837329	0.812159
NSUN2	1121.554622	1969.178364	1.755757878	0.812094
AARS1	1004.886526	1763.381383	1.754806476	0.811312
RC3H2	1950.338362	3421.374797	1.754246783	0.810852
ERICH5	111.164884	195.0092353	1.754234145	0.810841
CGGBP1	614.1584683	1077.11484	1.753806055	0.810489
MGST1	1284.4497	2252.149212	1.753396191	0.810152
RALGPS1	561.3276323	984.1742686	1.753297383	0.810071
VPS35	2249.713099	3944.165513	1.753186002	0.809979
TXLNA	474.3768814	831.4861864	1.752796603	0.809659
DOLPP1	81.44753881	142.7301637	1.752418377	0.809347
AP1S2	193.7130653	339.3990521	1.752071042	0.809061
HMGN5	115.5674537	202.4776741	1.752030244	0.809028
VANGL1	452.3640331	792.4843394	1.751873008	0.808898
ASS1	74.84368431	131.1125923	1.751819054	0.808854
PSMD12	1452.84799	2543.418325	1.750643111	0.807885
HS2ST1	160.6937928	281.3111948	1.75060399	0.807853
TMEM14B	215.7259136	377.5710727	1.750235131	0.807549
RPS6KA5	730.8265644	1278.762688	1.749748504	0.807148
FARSB	991.6788171	1735.167281	1.74972708	0.80713
MFN2	714.3169282	1249.718759	1.749529809	0.806967
UBE2E1	526.107075	920.2776255	1.749221155	0.806713
APOC1	27.51606041	48.12993894	1.749158063	0.806661
TM4SF18	27.51606041	48.12993894	1.749158063	0.806661
HTR7P1	27.51606041	48.12993894	1.749158063	0.806661
OTUD6B	299.3747372	523.6205426	1.749047189	0.806569
ZGRF1	423.7473303	741.0350943	1.748766402	0.806338
PIGF	158.4925079	277.1620621	1.748739204	0.806315
COA4	158.4925079	277.1620621	1.748739204	0.806315
IPO5	1526.591031	2669.551958	1.748701455	0.806284
STK25	523.9057902	916.1284928	1.748651208	0.806243
UCK1	130.9764475	229.0321232	1.748651208	0.806243
CHFR	387.4261305	677.1384512	1.74778725	0.80553
STXBP6	48.42826632	84.6423064	1.74778725	0.80553
SSB	773.7516187	1350.957596	1.745983548	0.80404
TMED10	2358.676698	4116.769432	1.745372494	0.803535
TPGS2	430.3511848	750.9930127	1.745070164	0.803285
ATP6AP1	1005.987168	1754.253292	1.743812791	0.802245
TMEM19	70.44111464	122.8143269	1.743503458	0.801989
PLEKHA8P1	35.22055732	61.40716347	1.743503458	0.801989
RAB5IF	17.61027866	30.70358173	1.743503458	0.801989
GPX1P1	17.61027866	30.70358173	1.743503458	0.801989
RCBTB1	265.2548223	462.2133791	1.742525829	0.80118
HNRNPUL2	99.05781747	172.6039189	1.742456308	0.801122
S100PBP	368.7152095	642.2857368	1.741956177	0.800708
CEP41	95.75589022	166.7951332	1.741878571	0.800644
SUCLG1	652.6809529	1136.862351	1.741834729	0.800608
NIPSNAP3B	60.5353329	105.3879697	1.740933182	0.799861
GPI	969.6659688	1687.867169	1.740668667	0.799642
ANKRD49	192.6124229	335.2499195	1.740541521	0.799536
GLMN	189.3104956	329.4411337	1.740215896	0.799266
TTI2	100.1584599	174.263572	1.73987871	0.798987
C5AR1	71.54175706	124.47398	1.73987871	0.798987
ITCH	57.23340565	99.579184	1.73987871	0.798987
SMC1A	2472.042867	4300.161096	1.739517204	0.798687
INSIG2	79.24625397	137.7512045	1.738267711	0.79765
ASCC1	411.6402637	715.3104718	1.737707739	0.797185
MICOS10	25.31477557	43.98080627	1.737357147	0.796894
GLRX5	213.5246288	370.9324604	1.737188176	0.796754
GNB1	1700.492533	2953.352632	1.73676307	0.796401
RPL38	1156.77518	2009.010037	1.736733354	0.796376
MRPL22	145.284799	252.2672661	1.736363804	0.796069
MORC4	556.9250626	966.7479114	1.735867132	0.795657
P4HA1	1252.53107	2173.315691	1.735139146	0.795051
RAB9B	55.03212081	95.43005134	1.734079115	0.79417

RPL21P27	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC01427	1.100642416	1.111172731	1.009567426	0.013737
LHFPL3-AS2	1.100642416	1.111172731	1.009567426	0.013737
RPL23AP18	1.100642416	1.111172731	1.009567426	0.013737
TGIF2P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PACRG-AS3	1.100642416	1.111172731	1.009567426	0.013737
BMS1P11	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PHKG1P1	1.100642416	1.111172731	1.009567426	0.013737
NMD3P1	1.100642416	1.111172731	1.009567426	0.013737
OR8T1P	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
TAS2R46	1.100642416	1.111172731	1.009567426	0.013737
CEP164P1	1.100642416	1.111172731	1.009567426	0.013737
HMGB3P8	1.100642416	1.111172731	1.009567426	0.013737
MIR663AHG	1.100642416	1.111172731	1.009567426	0.013737
SMIM2-AS1	1.100642416	1.111172731	1.009567426	0.013737
RPL7AP22	1.100642416	1.111172731	1.009567426	0.013737
NCAM1-AS1	1.100642416	1.111172731	1.009567426	0.013737
CCNJP1	1.100642416	1.111172731	1.009567426	0.013737
USP17L12	1.100642416	1.111172731	1.009567426	0.013737
ALG1L8P	1.100642416	1.111172731	1.009567426	0.013737
SOX21-AS1	1.100642416	1.111172731	1.009567426	0.013737
SPOPL-DT	1.100642416	1.111172731	1.009567426	0.013737
EFHD2-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
EIF4BP2	1.100642416	1.111172731	1.009567426	0.013737
LINC01939	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
UBTFL7	1.100642416	1.111172731	1.009567426	0.013737
LINC00858	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
GOLGA2P4	1.100642416	1.111172731	1.009567426	0.013737
RPL26P6	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
THAP12P1	1.100642416	1.111172731	1.009567426	0.013737
RPL17P5	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
CLEC12A-AS	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL36AP16	1.100642416	1.111172731	1.009567426	0.013737
ZDHHC20P4	1.100642416	1.111172731	1.009567426	0.013737
RPL37A-DT	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
MROH3P	1.100642416	1.111172731	1.009567426	0.013737
ARHGEF4-AS	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPS25P3	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC02609	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPS3AP44	1.100642416	1.111172731	1.009567426	0.013737
RAD1P1	1.100642416	1.111172731	1.009567426	0.013737
CTSLP8	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL24P2	1.100642416	1.111172731	1.009567426	0.013737
GAPDHP52	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ID2-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ZSWIM5P1	1.100642416	1.111172731	1.009567426	0.013737
RNF186-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PSMD14-DT	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC02889	1.100642416	1.111172731	1.009567426	0.013737
PRADC1P1	1.100642416	1.111172731	1.009567426	0.013737
ENOPH1P1	1.100642416	1.111172731	1.009567426	0.013737
GJA6P	1.100642416	1.111172731	1.009567426	0.013737
BTBD3-AS1	1.100642416	1.111172731	1.009567426	0.013737
H3P36	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
SMAD9-IT1	1.100642416	1.111172731	1.009567426	0.013737
RPS3AP12	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
CATIP-AS2	1.100642416	1.111172731	1.009567426	0.013737
GGTA2P	1.100642416	1.111172731	1.009567426	0.013737
ODAD2P1	1.100642416	1.111172731	1.009567426	0.013737
DRG1P2	1.100642416	1.111172731	1.009567426	0.013737
TM4SF1-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RN7SL809P	1.100642416	1.111172731	1.009567426	0.013737
WDR82P2	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL29P26	1.100642416	1.111172731	1.009567426	0.013737
RPL15P7	1.100642416	1.111172731	1.009567426	0.013737
MTCO3P35	1.100642416	1.111172731	1.009567426	0.013737
RPSAP3	1.100642416	1.111172731	1.009567426	0.013737
RPL36AP19	1.100642416	1.111172731	1.009567426	0.013737
OR13C7	1.100642416	1.111172731	1.009567426	0.013737
ENO1P3	1.100642416	1.111172731	1.009567426	0.013737
INPP5F	1386.640137	453.3584744	3.058595384	1.612869
RAPGEF6	71.36508187	23.33462736	3.058333899	1.612746
TUBA1A	6654.378971	2176.787381	3.056972412	1.612104
SMYD2	1293.699566	423.3568107	3.055813755	1.611557
HSPA12A	149.368776	48.89160018	3.055100988	1.61122
ZCCHC12	37.342194	12.22290005	3.055100988	1.61122
ZNF124	760.1211046	248.9026918	3.053888646	1.610647
TRMT10C	458.0642464	150.0083187	3.053592296	1.610507
MRPL36	573.4101346	187.7881916	3.053494097	1.610461
DDX46	2188.252568	716.7064118	3.053206351	1.610325
EPB41L4B	1384.150658	453.3584744	3.05310419	1.610277
YOD1	515.3222772	168.8982552	3.051081118	1.609321
MEGF9	853.8915028	280.0155283	3.049443393	1.608546
ZNF33B	1426.471811	467.8037199	3.04929557	1.608476
VAPB	1192.460728	391.1328015	3.048736194	1.608211
SLC7A1	748.5035331	245.5691736	3.048035395	1.60788
MIS18A	291.2691132	95.5608549	3.047996102	1.607861
FAM98B	545.1960324	178.8988098	3.047510675	1.607631
PCBD2	84.6423064	27.77931829	3.046954052	1.607368
KCNS3	1116.946514	366.6870014	3.046048837	1.606939
ARL4C	558.473257	183.3435007	3.046048837	1.606939
HTRA3	87.96161254	28.89049102	3.044656198	1.606279
C10orf95-AS	43.98080627	14.44524551	3.044656198	1.606279
RARS1	2603.995662	855.6030032	3.043462508	1.605714
SACS	3180.725102	1045.61354	3.041970078	1.605006
UBA6	3911.802278	1286.738023	3.04009224	1.604115
ENSG000002	50.61941854	16.66759097	3.036996685	1.602645
ACOT7	1008.239238	332.2406467	3.03466553	1.601538
CDK7	53.93872467	17.7787637	3.033885009	1.601166
NDUFV3	546.025859	180.0099825	3.033308772	1.600892
CFAP276	57.2580308	18.88993643	3.031139411	1.59986
LSM5	117.8353677	38.8910456	3.029884281	1.599263
RBBP7	6608.738512	2181.232072	3.029819063	1.599232
CDH23	2166.677079	715.595239	3.027796945	1.598268
NUP107	931.895197	307.7948466	3.027650421	1.598199
TIMM23	1389.129617	458.9143381	3.0269911	1.597884
TRIM38	316.1639092	104.4502368	3.02693339	1.597857
TGFA	63.89664307	21.1122819	3.026515247	1.597658
DONSON	901.1916152	297.794292	3.026221924	1.597518
ZNF121	1311.125923	433.3573653	3.025507417	1.597177
HLA-DQA1	70.53525534	23.33462736	3.022771877	1.595872
GRB14	221.5636844	73.33740027	3.021155421	1.5951
SLC25A14	369.2728073	122.2290005	3.021155421	1.5951
SLU7	2036.394313	674.481848	3.019198098	1.594165
FBXW7	1912.750159	634.4796297	3.014675444	1.592003
UTP4	200.8180211	66.67036389	3.01210327	1.590771
THYN1	558.473257	185.5658462	3.00956921	1.589557
LYRM1	247.2883069	82.22678213	3.007393705	1.588514
ESF1	1159.267667	385.5769378	3.006579371	1.588123
PGD	2656.274733	885.604667	2.999391074	1.58467
CDH6	206.6268068	68.89270935	2.999255056	1.584604
TMEM126A	206.6268068	68.89270935	2.999255056	1.584604
ZNF165	216.5847252	72.22622754	2.998699123	1.584337
BMP8B	233.1812559	77.7820912	2.997878461	1.583942
CSTF3	1321.913668	441.1355744	2.996615427	1.583334
NDUFAB1	539.3872467	180.0099825	2.996429638	1.583244
RDX	1677.079424	560.0310566	2.994618609	1.582372
QSOX2	1384.150658	462.2478563	2.994390647	1.582262
ZNF567	735.2263086	245.5691736	2.993968248	1.582059
RAB2A	2604.825488	870.0482487	2.99388625	1.582019
SUMO1	399.1465625	133.3407278	2.993433208	1.581801
EXOSC2	555.1539508	185.5658462	2.991681726	1.580957
LRRFIP1	3259.558623	1090.06045	2.990254921	1.580268
MED1	5378.105763	1798.988652	2.989516224	1.579912
ERRFI1	2169.166558	725.5957936	2.989497152	1.579903
CBX1	1885.365884	631.1461115	2.987209855	1.578799
SNRPA1	215.7548987	72.22622754	2.987209855	1.578799
FSIP1	89.6212656	30.00166375	2.987209855	1.578799
RNF148	23.23514293	7.77820912	2.987209855	1.578799
KIAA1143P1	23.23514293	7.77820912	2.987209855	1.578799
ENSG000002	23.23514293	7.77820912	2.987209855	1.578799
THAP5	421.551879	141.1189369	2.987209855	1.578799
PPP2CA	73.02473494	24.44580009	2.987209855	1.578799
LDHB	36.51236747	12.22290005	2.987209855	1.578799
ENSG000002	26.55444907	8.889381852	2.987209855	1.578799
ENSG000002	19.9158368	6.667036389	2.987209855	1.578799
ASCL2	16.59653067	5.555863657	2.987209855	1.578799
HNRNPA3P	16.59653067	5.555863657	2.987209855	1.578799
MANBAL	13.27722453	4.444690926	2.987209855	1.578799
FEZF1	13.27722453	4.444690926	2.987209855	1.578799
SMCO2	13.27722453	4.444690926	2.987209855	1.578799
INCA1	13.27722453	4.444690926	2.987209855	1.578799
ENSG000002	13.27722453	4.444690926	2.987209855	1.578799
ZNF232-AS1	13.27722453	4.444690926	2.987209855	1.578799
ENSG000002	13.27722453	4.444690926	2.987209855	1.578799
USP32P4	13.27722453	4.444690926	2.987209855	1.578799
ENSG000002	13.27722453	4.444690926	2.987209855	1.578799
MRPL45P2	13.27722453	4.444690926	2.987209855	1.578799
SLC27A6	9.9579184	3.333518194	2.987209855	1.578799
TXN2P1	9.9579184	3.333518194	2.987209855	1.578799
MRPL35P1	9.9579184	3.333518194	2.987209855	1.578799
FBXW4P1	9.9579184	3.333518194	2.987209855	1.578799
ENSG000002	9.9579184	3.333518194	2.987209855	1.578799
KCTD13-DT	9.9579184	3.333518194	2.987209855	1.578799
ENSG000002	9.9579184	3.333518194	2.987209855	1.578799
PARK7P1	9.9579184	3.333518194	2.987209855	1.578799
HIF1A-AS3	9.9579184	3.333518194	2.987209855	1.578799
ZNF778-DT	9.9579184	3.333518194	2.987209855	1.578799
ENSG000002	9.9579184	3.333518194	2.987209855	1.578799
ENSG000002	9.9579184	3.333518194	2.987209855	1.578799
CYP27B1	6.638612267	2.222345463	2.987209855	1.578799
TRIQK	176.1027866	305.3761643	1.734079115	0.79417
C1orf50	11.00642416	19.08601027	1.734079115	0.79417
GPT	11.00642416	19.08601027	1.734079115	0.79417
HAUS3	11.00642416	19.08601027	1.734079115	0.79417
FNBP1P1	11.00642416	19.08601027	1.734079115	0.79417
ENSG000002	11.00642416	19.08601027	1.734079115	0.79417
THUMPD3-A	99.05781747	171.7740924	1.734079115	0.79417
ADAL	77.04496914	133.6020719	1.734079115	0.79417
ACTMAP	279.5631737	484.6186955	1.733485455	0.793676
FGR	40.7237694	70.53525534	1.732041419	0.792473
LBR	759.4432672	1315.275055	1.73189376	0.79235
TMA16	140.8822293	243.9690008	1.731723029	0.792208
THG1L	129.8758051	224.8829905	1.731523361	0.792042
COA6	59.43469048	102.8984901	1.731286717	0.791845
NDUFB8	29.71734524	51.44924507	1.731286717	0.791845
MED9	67.13918739	116.1757147	1.730371176	0.791082
IFNAR1	780.3554732	1350.12777	1.730144551	0.790893
PSMD1	1779.738787	3078.656439	1.72983612	0.790635
NIF3L1	299.3747372	517.8117568	1.72964413	0.790475
ENSG000002	18.71092108	32.3632348	1.72964413	0.790475
SLC25A51	176.1027866	304.5463377	1.729366943	0.790244
TARS2	202.5182046	350.1867971	1.729162066	0.790073
PPP1CB	2105.528942	3638.789349	1.728206759	0.789276
ALG9	26.41541799	45.64045934	1.727796219	0.788933
GDI1	1578.321225	2726.809989	1.727664778	0.788823
C10orf88	113.3661689	195.8390619	1.727491224	0.788678
MPLKIP	200.3169198	346.0376644	1.727451005	0.788645
RCOR1	537.1134992	927.7460643	1.727281228	0.788503
FDX1	60.5353329	104.5581432	1.727225047	0.788456
TMEM237	323.5888704	558.473257	1.725872884	0.787326
PVR	228.9336226	394.9974299	1.725379721	0.786914
B9D1	122.1713082	210.7759395	1.7252491	0.786805
ZNF382	187.1092108	322.8025215	1.725209145	0.786771
TAF13	248.7451861	429.0203178	1.724738173	0.786377
HINT1	641.6745287	1106.158769	1.723862674	0.785645
NACC2	219.0278408	377.5710727	1.723849677	0.785634
PSD3	1139.164901	1963.369578	1.723516566	0.785355
NALF2	46.22698148	79.6633472	1.723308437	0.785181
APC2	23.11349074	39.8316736	1.723308437	0.785181
FAM229B	38.52248457	66.38612267	1.723308437	0.785181
RIMBP3	15.40899383	26.55444907	1.723308437	0.785181
STX1B	7.704496914	13.27722453	1.723308437	0.785181
RAB37	7.704496914	13.27722453	1.723308437	0.785181
MATN1-AS1	7.704496914	13.27722453	1.723308437	0.785181
TCP1P1	7.704496914	13.27722453	1.723308437	0.785181
ENSG000002	7.704496914	13.27722453	1.723308437	0.785181
ENSG000002	7.704496914	13.27722453	1.723308437	0.785181
NUBP2	119.9700234	206.6268068	1.722320301	0.784353
PHF8	1879.897247	3236.32348	1.721542752	0.783702
ENSG000002	50.62955115	87.131786	1.720966985	0.783219
GMEB1	237.7387619	409.1044809	1.720815224	0.783092
CCDC40	42.92505424	73.85456147	1.720546725	0.782867
FAM24B	42.92505424	73.85456147	1.720546725	0.782867
ZNF480	395.1306275	679.6279308	1.720008229	0.782415
RBMX	1561.811589	2686.148489	1.719892789	0.782319
G3BP1	992.7794595	1706.953179	1.719367945	0.781878
TMED8	220.1284833	378.4008992	1.719000166	0.78157
STAM	508.4967963	873.8073396	1.718412674	0.781077
CCT4	1428.633856	2454.626886	1.718163737	0.780868
RTTN	367.614567	631.4979919	1.717826355	0.780584
NDUFC2	79.24625397	136.0915515	1.717324727	0.780163
ZKSCAN2-D	19.81156349	34.02288787	1.717324727	0.780163
ILKAP	249.8458285	429.0203178	1.717140207	0.780008
NME1	91.35332055	156.8372148	1.716820077	0.779739
GFM1	947.6531204	1626.460005	1.716303118	0.779304
RTL8A	495.2890873	849.7423702	1.715649288	0.778755
AMH	44.02569665	75.51421454	1.715230429	0.778402
METRN	56.13276323	96.25987787	1.714860846	0.778092
MRPL54	68.23982981	117.0055412	1.714622406	0.777891
KBTBD2	734.1284917	1258.017025	1.713619671	0.777047
S100A13	24.21413316	41.49132667	1.713516912	0.77696
FER1L4	12.10706658	20.74566333	1.713516912	0.77696
ASIC2	12.10706658	20.74566333	1.713516912	0.77696
ENSG000002	12.10706658	20.74566333	1.713516912	0.77696
LINC00997	12.10706658	20.74566333	1.713516912	0.77696
RENO1	12.10706658	20.74566333	1.713516912	0.77696
PRMT1	610.856541	1046.411259	1.713022925	0.776544
RPS2P5	214.6252712	367.6131543	1.71281393	0.776368
ZNF684	77.04496914	131.9424188	1.712537759	0.776136
RANBP17	337.8972218	578.3890938	1.711730835	0.775456
ADAT3	28.61670282	48.95976547	1.710880732	0.774739
RALBP1	662.5867346	1133.543045	1.710784393	0.774658
COL4A1	2361.978625	4040.425391	1.71061048	0.774511
PSMC5	585.5417655	1001.600626	1.710553687	0.774463
PDHB	398.4325547	681.2875839	1.709919473	0.773928
CCDC137	61.63597531	105.3879697	1.70984509	0.773866
TMEM18	139.7815869	238.9900416	1.709739079	0.773776
RPL8	4991.413358	8533.936069	1.70972337	0.773763
ZBTB41	823.2805274	1407.385801	1.709485107	0.773562
SLC25A26	16.50963624	28.21410213	1.708947533	0.773108
SIRT1	472.1755966	806.5913904	1.708244552	0.772515
HEBP1	303.7773069	518.6415834	1.707308517	0.771724
WASF1	212.4239863	362.6341951	1.707124517	0.771568
WDFY1	62.73661773	107.0476228	1.706302104	0.770873
ENSG000002	20.91220591	35.68254093	1.706302104	0.770873
RBM17	975.1691808	1663.802199	1.706167742	0.770759
PSMD9	50.62955115	86.30195947	1.704576823	0.769414
CKMT1A	25.31477557	43.15097974	1.704576823	0.769414
KRBOX5	232.2355498	395.8272564	1.704421466	0.769282
ALG6	316.9850159	540.2170732	1.704235362	0.769125
MRPS18A	211.3233439	360.1447155	1.704235362	0.769125

RPL21P120	1.100642416	1.111172731	1.009567426	0.013737
PPM1K-DT	1.100642416	1.111172731	1.009567426	0.013737
LINC02288	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
FAM174A-D	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
HHIP-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
USP17L17	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RBMXP4	1.100642416	1.111172731	1.009567426	0.013737
RCC2P4	1.100642416	1.111172731	1.009567426	0.013737
TUBA3GP	1.100642416	1.111172731	1.009567426	0.013737
SRD5A3-AS1	1.100642416	1.111172731	1.009567426	0.013737
LINC02147	1.100642416	1.111172731	1.009567426	0.013737
GBA3	1.100642416	1.111172731	1.009567426	0.013737
TRIM7-AS2	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
UGT2B29P	1.100642416	1.111172731	1.009567426	0.013737
YPEL3-DT	1.100642416	1.111172731	1.009567426	0.013737
OR7E41P	1.100642416	1.111172731	1.009567426	0.013737
LINC02269	1.100642416	1.111172731	1.009567426	0.013737
TUBB8P4	1.100642416	1.111172731	1.009567426	0.013737
HNRNPA3P1	1.100642416	1.111172731	1.009567426	0.013737
MESTP3	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
H3P14	1.100642416	1.111172731	1.009567426	0.013737
TPTE2P7	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RPL7L1P13	1.100642416	1.111172731	1.009567426	0.013737
MFFP2	1.100642416	1.111172731	1.009567426	0.013737
SNHG27	1.100642416	1.111172731	1.009567426	0.013737
RNU4ATAC1	1.100642416	1.111172731	1.009567426	0.013737
RN7SKP96	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
CIR1P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
COX6B1P6	1.100642416	1.111172731	1.009567426	0.013737
ADAM7-AS1	1.100642416	1.111172731	1.009567426	0.013737
GASAL1	1.100642416	1.111172731	1.009567426	0.013737
LINC01484	1.100642416	1.111172731	1.009567426	0.013737
LINC01608	1.100642416	1.111172731	1.009567426	0.013737
LINC01933	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PRR13P2	1.100642416	1.111172731	1.009567426	0.013737
ALG1L9P.1	1.100642416	1.111172731	1.009567426	0.013737
GATD1-DT	1.100642416	1.111172731	1.009567426	0.013737
NDUFAF2P2	1.100642416	1.111172731	1.009567426	0.013737
LINC02548	1.100642416	1.111172731	1.009567426	0.013737
MRGPRX5P	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
KRT8P11	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RACGAP1P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
MRFAP1P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
HNRNPA3P1	1.100642416	1.111172731	1.009567426	0.013737
ANKRD20A1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC02911	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
HSPE1P5	1.100642416	1.111172731	1.009567426	0.013737
SUB1P3	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
KRT18P18	1.100642416	1.111172731	1.009567426	0.013737
MFSD1P1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC03048	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737

CDH15	6.638612267	2.222345463	2.987209855	1.578799
SPINK5	6.638612267	2.222345463	2.987209855	1.578799
TRIM17	6.638612267	2.222345463	2.987209855	1.578799
MAGEA12	6.638612267	2.222345463	2.987209855	1.578799
YWHAZP10	6.638612267	2.222345463	2.987209855	1.578799
NPM1P39	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
DONSONP1	6.638612267	2.222345463	2.987209855	1.578799
ARID3BP1	6.638612267	2.222345463	2.987209855	1.578799
CCDC26	6.638612267	2.222345463	2.987209855	1.578799
SZT2-AS1	6.638612267	2.222345463	2.987209855	1.578799
TPI1P2	6.638612267	2.222345463	2.987209855	1.578799
LINC02937	6.638612267	2.222345463	2.987209855	1.578799
NANOGP5	6.638612267	2.222345463	2.987209855	1.578799
MTND4P14	6.638612267	2.222345463	2.987209855	1.578799
EEF1E1P1	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
RPL36AP21	6.638612267	2.222345463	2.987209855	1.578799
EAF1-AS1	6.638612267	2.222345463	2.987209855	1.578799
LINC00534	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
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ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
MIR4746	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
ENSG000002	6.638612267	2.222345463	2.987209855	1.578799
DHRS11	6.638612267	2.222345463	2.987209855	1.578799
SDHAP1	6.638612267	2.222345463	2.987209855	1.578799
ZNF781.1	6.638612267	2.222345463	2.987209855	1.578799
C8B	3.319306133	1.111172731	2.987209855	1.578799
PCDH11Y	3.319306133	1.111172731	2.987209855	1.578799
MIOX	3.319306133	1.111172731	2.987209855	1.578799
RPS10P5	3.319306133	1.111172731	2.987209855	1.578799
MYL7	3.319306133	1.111172731	2.987209855	1.578799
YWHAE	3.319306133	1.111172731	2.987209855	1.578799
CCKBR	3.319306133	1.111172731	2.987209855	1.578799
PYY	3.319306133	1.111172731	2.987209855	1.578799
AMT	3.319306133	1.111172731	2.987209855	1.578799
RIPPLY1	3.319306133	1.111172731	2.987209855	1.578799
GSDMC	3.319306133	1.111172731	2.987209855	1.578799
MZT2B	3.319306133	1.111172731	2.987209855	1.578799
C8orf48	3.319306133	1.111172731	2.987209855	1.578799
SOHLH1	3.319306133	1.111172731	2.987209855	1.578799
BMERB1	3.319306133	1.111172731	2.987209855	1.578799
NMUR1	3.319306133	1.111172731	2.987209855	1.578799
OR2Y1	3.319306133	1.111172731	2.987209855	1.578799
RESP18	3.319306133	1.111172731	2.987209855	1.578799
TAL2	3.319306133	1.111172731	2.987209855	1.578799
NPIPP1	3.319306133	1.111172731	2.987209855	1.578799
RN7SKP80	3.319306133	1.111172731	2.987209855	1.578799
HSP90AB2P	3.319306133	1.111172731	2.987209855	1.578799
MIR23B	3.319306133	1.111172731	2.987209855	1.578799
RNU6-1176P	3.319306133	1.111172731	2.987209855	1.578799
ST13P5	3.319306133	1.111172731	2.987209855	1.578799
YBX1P6	3.319306133	1.111172731	2.987209855	1.578799
KRT18P19	3.319306133	1.111172731	2.987209855	1.578799
VPS33B-DT	3.319306133	1.111172731	2.987209855	1.578799
NT5DC1P2	3.319306133	1.111172731	2.987209855	1.578799
LINC03076	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
FGGY-DT	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
YBX1P8	3.319306133	1.111172731	2.987209855	1.578799
ZKSCAN8P1	3.319306133	1.111172731	2.987209855	1.578799
LINC01132	3.319306133	1.111172731	2.987209855	1.578799
SOX21-AS1	3.319306133	1.111172731	2.987209855	1.578799
SEC63P1	3.319306133	1.111172731	2.987209855	1.578799
HNRNPA1P	3.319306133	1.111172731	2.987209855	1.578799
RANBP1P1	3.319306133	1.111172731	2.987209855	1.578799
FAM207BP	3.319306133	1.111172731	2.987209855	1.578799
RPL21P44	3.319306133	1.111172731	2.987209855	1.578799
ATXN1-AS1	3.319306133	1.111172731	2.987209855	1.578799
RPS23P8	3.319306133	1.111172731	2.987209855	1.578799
DNM3OS	3.319306133	1.111172731	2.987209855	1.578799
LINC00865	3.319306133	1.111172731	2.987209855	1.578799
RPL37A-DT	3.319306133	1.111172731	2.987209855	1.578799
FHAD1-AS1	3.319306133	1.111172731	2.987209855	1.578799
AMZ2P3	3.319306133	1.111172731	2.987209855	1.578799
ZNF101P2	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
PCBP2P1	3.319306133	1.111172731	2.987209855	1.578799
RPS3AP12	3.319306133	1.111172731	2.987209855	1.578799
LINC01409	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
HTR3E-AS1	3.319306133	1.111172731	2.987209855	1.578799
LINC01471	3.319306133	1.111172731	2.987209855	1.578799
RN7SL258P	3.319306133	1.111172731	2.987209855	1.578799
RN7SL180P	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
RN7SL449P	3.319306133	1.111172731	2.987209855	1.578799
ST13P15	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
LINC02102	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
ENSG000002	3.319306133	1.111172731	2.987209855	1.578799
SCARNA11	3.319306133	1.111172731	2.987209855	1.578799
PKIA-AS1	3.319306133	1.111172731	2.987209855	1.578799
NDUFAF2P2	3.319306133	1.111172731	2.987209855	1.578799

PPP1R8	817.7773153	1393.27875	1.703738565	0.768704
TCEAL8	318.0856583	541.8767263	1.703555983	0.768549
LINC00847	29.71734524	50.61941854	1.703362737	0.768386
RBM15	1313.066403	2236.382507	1.703175485	0.768227
AGAP1	1479.263408	2519.353355	1.703113416	0.768175
PIGK	752.8394127	1282.081994	1.702995317	0.768074
SMC1B	68.23982981	116.1757147	1.702461964	0.767623
HSP90AB3P	34.11991491	58.08785734	1.702461964	0.767623
NAA30	213.5246288	363.4640216	1.702211233	0.76741
HEATR3	188.2098532	320.3130419	1.701893054	0.76714
MAF1	599.8501169	1020.686636	1.701569454	0.766866
PDCD6	42.92505424	73.02473494	1.701214739	0.766565
LPAR2	90.25267814	153.5179087	1.700978983	0.766365
ING5	236.6381195	402.4658687	1.700765158	0.766184
RHEB	258.6509678	439.8080627	1.700392101	0.765867
DGKG	51.73019357	87.96161254	1.700392101	0.765867
PPIE	336.7965794	572.580308	1.700077563	0.765601
DUSP12	272.9593192	463.8730322	1.699421853	0.765044
GPR37	69.34047223	117.8353677	1.699373597	0.765003
C2CD5	1456.149917	2474.542722	1.699373597	0.765003
CHCHD4	86.95075089	147.7091229	1.698767652	0.764489
ENSG000002	195.9143501	332.7604399	1.698499572	0.764261
PTTG1IP	650.479668	1104.499116	1.697976386	0.763816
NDUFC1	201.4175622	341.8885317	1.697411725	0.763337
C19orf25	74.84368431	126.9634596	1.696381743	0.762461
NUBPL	127.6745203	216.5847252	1.696381743	0.762461
COPRS	127.6745203	216.5847252	1.696381743	0.762461
DHODH	61.63597531	104.5581432	1.696381743	0.762461
ATP6V1E2	35.22055732	59.7475104	1.696381743	0.762461
AP1S3	17.61027866	29.8737552	1.696381743	0.762461
HNRNPKP2	17.61027866	29.8737552	1.696381743	0.762461
ENSG000002	17.61027866	29.8737552	1.696381743	0.762461
KHDC1-AS1	13.207709	22.4053164	1.696381743	0.762461
ENSG000002	13.207709	22.4053164	1.696381743	0.762461
ENSG000002	13.207709	22.4053164	1.696381743	0.762461
PIP4P1	8.80513933	14.9368776	1.696381743	0.762461
LRRIQ4	8.80513933	14.9368776	1.696381743	0.762461
XKR9	8.80513933	14.9368776	1.696381743	0.762461
ENSG000002	8.80513933	14.9368776	1.696381743	0.762461
PNISR-AS1	8.80513933	14.9368776	1.696381743	0.762461
DPEP1	4.402569665	7.4684388	1.696381743	0.762461
FDFT1	4.402569665	7.4684388	1.696381743	0.762461
AMBP	4.402569665	7.4684388	1.696381743	0.762461
EPX	4.402569665	7.4684388	1.696381743	0.762461
HMGB1P1	4.402569665	7.4684388	1.696381743	0.762461
SYCE1	4.402569665	7.4684388	1.696381743	0.762461
FOXE3	4.402569665	7.4684388	1.696381743	0.762461
SOWAHD	4.402569665	7.4684388	1.696381743	0.762461
ALKAL1	4.402569665	7.4684388	1.696381743	0.762461
ZSCAN5B	4.402569665	7.4684388	1.696381743	0.762461
MTND4P32	4.402569665	7.4684388	1.696381743	0.762461
XPC-AS1	4.402569665	7.4684388	1.696381743	0.762461
LINC02916	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
SMIM14-DT	4.402569665	7.4684388	1.696381743	0.762461
PDF	4.402569665	7.4684388	1.696381743	0.762461
COQ7-DT	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
MIR7161	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ENSG000002	4.402569665	7.4684388	1.696381743	0.762461
ADAM20P1	4.402569665	7.4684388	1.696381743	0.762461
PSMD8	569.0321292	965.0882583	1.696017164	0.762151
NPIPA7	97.95717505	165.9653067	1.694263913	0.760659
GMDS-DT	93.55460539	158.4968679	1.69416425	0.760574
LARGE2	246.5439013	417.4027463	1.693015906	0.759596
DNAJB4	228.9336226	387.5289911	1.692756995	0.759375
BCLAF1P2	53.9314784	91.28091867	1.692535072	0.759186
METTL6	193.7130653	327.7814807	1.69209795	0.758813
PTAR1	636.1713166	1076.285014	1.691816317	0.758573
SDHA	40.7237694	68.87560227	1.691287503	0.758122
CDK5RAP2	2681.164926	4534.172178	1.691120205	0.757979
RP2	245.4432588	414.9132667	1.690465115	0.75742
COX14	31.91863007	53.93872467	1.689882196	0.756923
PPIA	4502.728125	7607.019831	1.689424638	0.756532
ASPH	1394.513941	2355.877528	1.689389728	0.756502
ATP6AP2	1273.443276	2150.910374	1.689050793	0.756213
NCBP1	1037.905799	1752.593638	1.688586422	0.755816
ABL2	717.6188554	1211.546739	1.688287215	0.75556
IFT25	414.9421909	700.3735942	1.687882335	0.755214
LRPAP1	618.561038	1043.921779	1.68766171	0.755026
CNOT9	807.8715336	1363.404994	1.687650744	0.755016
STX3	342.2997915	577.5592672	1.687290736	0.754709
UBR5	7543.803121	12722.90041	1.686536645	0.754064
FOXK2	1028.000017	1733.507628	1.68629144	0.753854
MANEA	223.4304105	376.7412461	1.686168169	0.753748
EPB41L5	624.06425	1052.220044	1.686076464	0.75367
CCT7	1041.207726	1755.083118	1.68562245	0.753281
PTRHD1	191.5117804	322.8025215	1.685549164	0.753219
OGFRL1	243.241974	409.9343075	1.68529428	0.753001
RAB3A	224.5310529	378.4008992	1.68529428	0.753001
TOPORS	1496.873686	2521.842835	1.684739907	0.752526
MTIF2	953.1563325	1605.714342	1.68462852	0.75243
ULK1	489.7858753	824.8475742	1.684098329	0.751976
MRPL3	924.5396297	1556.754577	1.683815952	0.751734
YWHAB	1321.871542	2225.594762	1.683669473	0.751609
DCBLD2	774.8522611	1304.48731	1.683530366	0.75149

ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
DSG2-AS1	1.100642416	1.111172731	1.009567426	0.013737
LINC01476	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC01836	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
FAM156A	1.100642416	1.111172731	1.009567426	0.013737
VN1R80P	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ZNF723	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PLEKHA3P1	1.100642416	1.111172731	1.009567426	0.013737
FARS2-AS1	1.100642416	1.111172731	1.009567426	0.013737
TEX101P1	1.100642416	1.111172731	1.009567426	0.013737
TAS2R6P	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC02333	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
FAM169A-AS	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
CPVL-AS2	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
GAS6-DT	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
SNURF	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
LINC02930	1.100642416	1.111172731	1.009567426	0.013737
Metazoa_SRP	1.100642416	1.111172731	1.009567426	0.013737
KMT2CP3	1.100642416	1.111172731	1.009567426	0.013737
PDE4DIPP5	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
FLJ16779	1.100642416	1.111172731	1.009567426	0.013737
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ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
CEBPB-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
RNVU1-4	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
OR51G1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ERICD	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PGR-AS1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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OR4F16	1.100642416	1.111172731	1.009567426	0.013737
SMIM38	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002

ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ANKRD33BP	1.100642416	1.111172731	1.009567426	0.013737
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CEACAM22P	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
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ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
NPEPPSP1.1	1.100642416	1.111172731	1.009567426	0.013737
ENSG000002	1.100642416	1.111172731	1.009567426	0.013737
PRLR	272.9593192	275.5708374	1.009567426	0.013737
ENSG000002	42.92505424	43.33573653	1.009567426	0.013737
STK31	34.11991491	34.44635467	1.009567426	0.013737
ACTBP11	26.41541799	26.66814555	1.009567426	0.013737
C6	13.207709	13.33407278	1.009567426	0.013737
FOXA2	13.207709	13.33407278	1.009567426	0.013737
ACKR4	13.207709	13.33407278	1.009567426	0.013737
GUCY2D	13.207709	13.33407278	1.009567426	0.013737
SPATA4	13.207709	13.33407278	1.009567426	0.013737
XKR3	13.207709	13.33407278	1.009567426	0.013737
CFAP126	13.207709	13.33407278	1.009567426	0.013737
CLEC9A	13.207709	13.33407278	1.009567426	0.013737
ENSG000002	13.207709	13.33407278	1.009567426	0.013737
CPNE8	175.0021442	176.6764643	1.009567426	0.013737
GPHN	895.9229699	903.3834307	1.008327171	0.011964
SLC35F5	1470.458268	1482.304424	1.008056098	0.011576
KIAA0319L	2665.755932	2686.815665	1.007900098	0.011353
HLTF	1679.580327	1692.31607	1.007582693	0.010898
ZFPL1	543.7173537	547.8081566	1.007523767	0.010814
TSPAN3	1076.428283	1084.504586	1.007502871	0.010784
TAF1	3219.379068	3243.513203	1.007496519	0.010775
MID1	410.5396213	413.3562561	1.006860811	0.009864
CYLD	819.9786001	825.6013395	1.006857178	0.009859
ZNF333	380.822276	383.3545923	1.006649601	0.009562
HAPSTR1	726.4239948	731.1516573	1.006508131	0.009359
HPRT1	358.8094277	361.1311377	1.006470594	0.009305
SDR39U1	335.695937	337.7965104	1.006257369	0.008999
ITGB1BP1	308.1798766	310.0171921	1.005961828	0.008576
RNF44	608.6552562	612.256175	1.005916188	0.00851
GIPC1	296.07281	297.794292	1.005814387	0.008364
SENP5	859.6017271	864.4923851	1.005689446	0.008185
TPD52	248.7451861	250.0138646	1.005100314	0.007339
GATD1	246.5439013	247.7915191	1.005060429	0.007282
GSTP1	242.1413316	243.3468282	1.004978483	0.007165
CAMKMT	242.1413316	243.3468282	1.004978483	0.007165
DEPDC5	238.8394043	240.01331	1.004915042	0.007074
TSKU	453.4646755	455.5808199	1.004666613	0.006717
ABHD18	444.6595362	446.691438	1.004569568	0.006577
FN3KRP	217.9271984	218.9010281	1.004468601	0.006432
MRPL21	214.6252712	215.5675099	1.004390157	0.00632
WDR7	1283.349057	1288.960368	1.004372397	0.006294
CNIH1	423.7473303	425.5791561	1.00432292	0.006223
ZNF778	201.4175622	202.2334371	1.004050664	0.005832
CAMLG	198.1156349	198.8999189	1.003958718	0.0057
NCOA1	3424.098557	3436.857258	1.003726149	0.005366
COX7A2L	559.1263475	561.1422294	1.003605414	0.005192
DSG2	1668.573903	1674.537306	1.003573952	0.005147
NARS1	1205.203446	1208.955932	1.003113571	0.004485
RGPD8	341.1991491	342.2412013	1.003054088	0.004399
HTATSF1	846.3940181	848.9359668	1.003003269	0.004326
LIMK1	332.3940097	333.3518194	1.002881549	0.004151
HERC2	996.0813867	998.9442856	1.002874162	0.004141
LPIN1	485.3833056	486.6936564	1.002699621	0.003889
SIRT1	472.1755966	473.3595836	1.002507514	0.003613
GOT1	155.1905807	155.5641824	1.002407374	0.003469
HNRNPF	2094.522518	2099.00529	1.002140236	0.003084
PNKD	581.1391958	582.2545113	1.001919188	0.002766
RTN3P1	143.0835141	143.3412824	1.001801523	0.002597
RO60	1364.796596	1366.74246	1.001425753	0.002055
TMEM106A	135.3790172	135.5630732	1.001359561	0.00196
PGBD1	247.6445437	247.7915191	1.000593494	8.56E-04
FAM53B	119.9700234	120.006655	1.00030534	4.40E-04
PPP2R1B	472.1755966	472.2484109	1.00015421	2.22E-04
ATP11B	3814.826615	3813.544814	0.999663995	-4.85E-04
ACAD9	759.4432672	758.9309756	0.999325438	-9.74E-04
BRK1	213.5246288	213.3451644	0.999159515	-0.001213
NSUN6	636.1713166	635.5908024	0.999087488	-0.001317
USP53	2035.087828	2032.334926	0.998647281	-0.001953
PIWIL4	101.2591023	101.1167186	0.998593867	-0.00203
GALNT1	801.2676791	800.0443666	0.998473279	-0.002204
NIFK	218.2443783	74.44857301	2.931478327	1.551628
ADGRG2	159.3266944	54.44746384	2.926246388	1.549051
SLC25A24	39.00184707	13.33407278	2.924976316	1.548425
RNF2	799.1229516	273.3484919	2.923458425	1.547676
RHNO1	607.4330224	207.7893008	2.923312318	1.547604
HIGD1A	35.68254093	12.22290005	2.919318721	1.545632
ENSG000002	35.68254093	12.22290005	2.919318721	1.545632
RBBP4	5104.263007	1748.985879	2.918412931	1.545184
VPS29	2798.175071	958.9420672	2.917981353	1.544971
SEMA6D	408.2746544	140.0077642	2.91608581	1.544033
FUT1	204.1373272	70.00388208	2.91608581	1.544033
PCMT1	1344.318984	461.1366835	2.915228894	1.543609
SPTSSA	614.9014612	211.122819	2.912529608	1.542273
OPTN	323.632348	111.1172731	2.912529608	1.542273
NOPCHAP1	291.2691132	100.0055458	2.912529608	1.542273
GPX7	64.7264696	22.22345463	2.912529608	1.542273
MAP7D2	64.7264696	22.22345463	2.912529608	1.542273
CRHBP	32.3632348	11.11172731	2.912529608	1.542273
KCND2	194.1794088	66.67036389	2.912529608	1.542273
FHAD1	223.2233375	76.67091847	2.911447286	1.541736
COX5A	1112.797381	382.2434196	2.911227046	1.541627
RNF128	158.4968679	54.44746384	2.911005522	1.541518
ETFRF1	126.1336331	43.33573653	2.91061473	1.541324
CCDC138	433.1694504	148.897146	2.909185717	1.540615
FAM228B	61.40716347	21.1122819	2.908599069	1.540324
IFIT2	90.45109214	31.11283648	2.907195305	1.539628
PDHA1	1621.481046	557.8087112	2.906876522	1.53947
NAP1L1	7165.552116	2465.692291	2.90610152	1.539085
ZNF382	322.8025215	111.1172731	2.905061584	1.538569
FKBP5	6463.518868	2226.790154	2.902616961	1.537354
TMED7	141.9003372	48.89160018	2.902345938	1.537219
COL4A2	2408.1566	830.0460304	2.901232596	1.536666
ALS2CL	167.6249597	57.78098203	2.90104034	1.53657
DCUN1D5	499.5555731	172.2317734	2.900484407	1.536294
DCTPP1	547.685512	188.8993643	2.899350741	1.53573
TAGAP	54.7685512	18.88993643	2.899350741	1.53573
USP18	190.0302761	65.55919115	2.898606172	1.535359
MRPL48	380.0605523	131.1183823	2.898606172	1.535359
SNX7	337.7393991	116.6731368	2.894748597	1.533438
ARL3	646.4348695	223.345719	2.894323976	1.533226
TEX101	25.72462253	8.889381852	2.893859547	1.532995
SLAMF8	25.72462253	8.889381852	2.893859547	1.532995
MMP16	77.1738676	26.66814555	2.893859547	1.532995
ZNF84	1823.128894	630.0349387	2.893694908	1.532913
ZNF600	761.7807576	263.3479374	2.892677897	1.532406
NONO	4623.793444	1598.977561	2.891718782	1.531927
NUDT15	125.3038065	43.33573653	2.891465949	1.531801
NOP58	1670.440812	577.8098203	2.890987229	1.531562
CBX2	346.8674909	120.006655	2.890402128	1.53127
PTPRN2	616.5611143	213.3451644	2.88996995	1.531054
ZFTRAF1	73.85456147	25.55697282	2.889800838	1.53097
EIF4EBP2	962.5987787	333.3518194	2.887636193	1.529889
RPL7P1	144.3898168	50.00277291	2.887636193	1.529889
SNHG8	48.12993894	16.66759097	2.887636193	1.529889
PRELID3B	667.1805328	231.1239281	2.886678754	1.529411
MTMR2	2230.573722	773.3762211	2.884202618	1.528173
RAP1GAP2	1155.948361	401.133356	2.881705905	1.526923
CBL	928.5758908	322.2400921	2.881627437	1.526884
PIK3C2G	134.4318984	46.66925472	2.880523788	1.526331
SETP14	67.2159492	23.33462736	2.880523788	1.526331
ENSG000002	44.8106328	15.55641824	2.880523788	1.526331
SLCO1B1	22.4053164	7.77820912	2.880523788	1.526331
S100A1	22.4053164	7.77820912	2.880523788	1.526331
GPC2	150.1986025	52.22511838	2.875983956	1.524056
PRADC1	41.49132667	14.44524551	2.872317168	1.522215
NTAQ1	804.1019108	280.0155283	2.871633283	1.521872
ZNF766	1425.641984	496.694211	2.870260923	1.521182
TRIM14	586.6873591	204.4557826	2.869507292	1.520803
CYBA	391.6781237	136.674246	2.86577856	1.518927
KCNH3	76.34404107	26.66814555	2.862742777	1.517398
SMIM24	19.08601027	6.667036389	2.862742777	1.517398
RSPO2	19.08601027	6.667036389	2.862742777	1.517398
SPA17	190.8601027	66.67036389	2.862742777	1.517398
TARS1	2564.993815	897.827567	2.856889128	1.514445
HMGN2	999.9409727	350.0194104	2.856815774	1.514408
LIFR	8882.463213	3110.172475	2.855939111	1.513965
GAPDH	3975.698921	1393.410605	2.853214197	1.512588
CDC25B	1024.005942	358.9087923	2.853109103	1.512535
TGS1	862.1897682	302.238983	2.852675587	1.512316
ENPEP	430.6799708	151.1194915	2.84992999	1.510926
RAN	2108.589221	740.0410391	2.849286877	1.510601
TTC39C	256.4163988	90.00499125	2.848913102	1.510412
CASP3	307.0358173	107.7837549	2.848627954	1.510267
EPHA4	1033.963861	363.3534832	2.84561428	1.50874
ERH	1476.261403	518.9176656	2.844885616	1.508371
RRP36	458.0642464	161.1200461	2.842999724	1.507414
ELAVL2	599.9645836	211.122819	2.841779901	1.506795
DDX11	1019.85681	358.9087923	2.841548693	1.506677
PPP4R2	274.6725825	96.67202764	2.841282936	1.506543
AGO2	3892.716268	1371.187151	2.838938701	1.505352
ARL17B	523.6205426	184.4546734	2.838749124	1.505255
WAC	8932.252805	3146.841175	2.838482245	1.50512
NAA16	394.1676033	138.8965914	2.837849362	1.504798
RASA3	63.06681654	22.22345463	2.837849362	1.504798
ATP6V1C2	31.53340827	11.11172731	2.837849362	1.504798
MESP1	15.76670413	5.555863657	2.837849362	1.504798
FADS6	15.76670413	5.555863657	2.837849362	1.504798
ZNF844	15.76670413	5.555863657	2.837849362	1.504798
PRRX1	189.2004496	66.67036389	2.837849362	1.504798
MIR29B2CH	47.3001124	16.66759097	2.837849362	1.504798
SBK1	422.3817055	148.897146	2.836734731	1.504231
EPS8L3	5.503212081	9.128091867	1.65868437	0.730039
SKIC2	5.503212081	9.128091867	1.65868437	0.730039
AMZ2P1	5.503212081	9.128091867	1.65868437	0.730039
LINC02575	5.503212081	9.128091867	1.65868437	0.730039
OCLNP1	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
SAMMSON	5.503212081	9.128091867	1.65868437	0.730039
MIR9-3HG	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
ENSG000002	5.503212081	9.128091867	1.65868437	0.730039
NT5M	27.51606041	45.64045934	1.65868437	0.730039
TMEM186	60.5353329	100.4090105	1.65868437	0.730039
SSR4	446.860821	741.0350943	1.658312968	0.729716
NEK11	336.7965794	558.473257	1.658191594	0.729611
NOL4L	651.5803104	1080.434146	1.658174947	0.729596
USP27X	111.164884	184.2214904	1.657191405	0.72874
SUPT3H	161.7944352	268.0339703	1.656632813	0.728254
TOMM34	145.284799	240.6496947	1.656399681	0.728051
APAF1	507.3961539	839.7844518	1.655086357	0.726906
SH3RF3	135.3790172	224.053164	1.655006578	0.726837
KLF12	350.0042884	579.2189203	1.654890924	0.726736
PKM	3066.389772	5073.559425	1.654570946	0.726457
ZNF768	379.7216336	628.1786858	1.654313661	0.726233
RABGAP1L	1200.800876	1985.774894	1.653708732	0.725705
RPS27	319.1863007	527.7696752	1.653484733	0.72551
ZMYM1	576.7366261	953.4706868	1.653216813	0.725276
EIF3H	2858.368355	4725.032281	1.653052264	0.725132
NOVA2	28.61670282	47.3001124	1.652884775	0.724986
TPH1	28.61670282	47.3001124	1.652884775	0.724986
RABL3	171.7002169	283.8006744	1.652884775	0.724986
RDX	1014.792308	1677.079424	1.652633165	0.724767
STAG1	1852.381187	3061.230082	1.652591866	0.72473
HGH1	80.34689639	132.7722453	1.652487542	0.724639
ZNF442	103.4603871	170.9442659	1.652267797	0.724448
HIKESHI	230.034265	380.0605523	1.652191043	0.724381
CDK4	253.1477557	418.2325728	1.652128306	0.724326
MTRF1L	126.5738779	209.1162864	1.652128306	0.724326
COA1	167.2976473	276.3322356	1.651740118	0.723987
NLRC4	23.11349074	38.17202053	1.651503919	0.72378
PARD6A	23.11349074	38.17202053	1.651503919	0.72378
POLRMTP1	23.11349074	38.17202053	1.651503919	0.72378
LSM10	115.5674537	190.8601027	1.651503919	0.72378
CFAP210	40.7237694	67.2159492	1.650533587	0.722932
UBQLN4P1	40.7237694	67.2159492	1.650533587	0.722932
SMUG1	75.94432672	125.3038065	1.649942951	0.722416
RAP2C	146.3854414	241.4795212	1.649614326	0.722129
EFTUD2	803.4689639	1325.232974	1.649389128	0.721932
STAB2	17.61027866	29.04392867	1.649260027	0.721819
C20orf204	17.61027866	29.04392867	1.649260027	0.721819
CUEDC2	112.2655265	185.0513169	1.648336072	0.72101
ATG13	751.7387703	1238.931014	1.648087159	0.720793
PDHA1	983.9743202	1621.481046	1.647889597	0.72062
RNF19B	379.7216336	625.6892062	1.647757596	0.720504
H2AC19	29.71734524	48.95976547	1.647514779	0.720291
IGSF9	202.5182046	333.5902664	1.647211257	0.720026
DCUN1D2	101.2591023	166.7951332	1.647211257	0.720026
FUT11	315.8843735	520.3012364	1.647125594	0.719951
MSANTD7	71.54175706	117.8353677	1.647085179	0.719915
ITFG1	1533.194886	2525.162141	1.646993585	0.719835
AGGF1	41.82441182	68.87560227	1.646779937	0.719648
MRPS22	370.9164943	610.7523286	1.646603314	0.719493
EMC8	78.14561156	128.6231127	1.645941597	0.718913
MED1	3267.807334	5378.105763	1.645784226	0.718775
ANKLE2	1035.704514	1704.4637	1.645704616	0.718705
TGFBR1	2177.070699	3581.531318	1.645114841	0.718188
ENSG000002	12.10706658	19.9158368	1.644976235	0.718067
PKN2	1616.84371	2659.594039	1.644929577	0.718026
NCL	9279.516212	15258.02047	1.64426896	0.717446
TMEM209	425.9486151	700.3735942	1.644267804	0.717445
RPRD1A	702.2098616	1154.288708	1.643794499	0.71703
AAMP	558.0257051	916.9583194	1.643218782	0.716525
CHCHD6	73.74304189	121.1546739	1.642930245	0.716271
CORO1A	104.5610295	171.7740924	1.642811793	0.716167
ENSG000002	135.3790172	222.3935109	1.64274727	0.716111
RBFOX3	92.45396297	151.8582556	1.642528354	0.715918
COIL	400.6338395	658.052441	1.642528354	0.715918
TOR3A	215.7259136	354.3359297	1.642528354	0.715918
LCMT1	302.6766645	497.0660935	1.642234608	0.71566
ENSG000002	49.52890873	81.32300027	1.641929983	0.715393
GZF1	315.8843735	518.6415834	1.641871605	0.715341
LEPROT	291.6702403	478.8099098	1.641613862	0.715115
CNIH1	423.7473303	695.394635	1.641059625	0.714628
INAFM1	18.71092108	30.70358173	1.640944431	0.714526
DDX21	1292.154197	2120.206793	1.640831101	0.714427
SLC2A8	81.44753881	133.6020719	1.640345108	0.713999
CEP89	514.0000084	843.1037579	1.640279658	0.713942
UFD1	489.7858753	803.2720843	1.640047467	0.713738
IRF2BPL	1515.584607	2485.330467	1.639849373	0.713563
SF3B4	906.929351	1487.049148	1.639652688	0.71339
USP38	762.7451945	1250.548586	1.639536499	0.713288
FAXDC2	214.6252712	351.8464501	1.639352385	0.713126
KCNB1	126.5738779	207.4566333	1.639016176	0.71283
PTHLH	25.31477557	41.49132667	1.639016176	0.71283
METTL26	171.7002169	281.3111948	1.638385786	0.712275
ZSWIM7	89.15203572	146.0494699	1.638206786	0.712117
SLC29A3	134.2783748	219.9040313	1.63767272	0.711647

SNX4	396.2312699	395.5774924	0.99835001	-0.002382
NCKIPSD	296.07281	295.5719466	0.99830831	-0.002443
IP6K1	392.9293426	392.2439742	0.998255746	-0.002519
NASP	1164.479676	1162.286677	0.998116756	-0.00272
BOD1L1	5040.942267	5031.390128	0.998105089	-0.002736
DUOX2	95.75589022	95.5608549	0.997963203	-0.002941
OVOL2	94.6552478	94.44968217	0.99782827	-0.003137
CC2D2A	471.0749542	470.0260654	0.997773414	-0.003216
FKBP5	2232.10282	2226.790154	0.997619883	-0.003438
SRP68	922.3383449	920.0510216	0.997520082	-0.003582
SLC2A9	90.25267814	90.00499125	0.997255628	-0.003965
ALG2	631.768747	630.0349387	0.997255628	-0.003965
CXCL16	359.9100701	358.9087923	0.997217978	-0.004019
ZFP82	172.8008594	172.2317734	0.996706695	-0.004759
DDHD1	685.7002254	683.3712298	0.996603479	-0.004908
CHD6	8547.589005	8513.805468	0.996047595	-0.005713
FNIP2	807.8715336	804.4890576	0.995813102	-0.006053
GTF2B	322.488228	321.1289194	0.995784936	-0.006094
FOXK1	636.1713166	633.3684569	0.995594175	-0.00637
FOXN3	945.4518356	941.1633035	0.99546404	-0.006559
DHRS7	3544.06858	3527.973422	0.995458565	-0.006567
COPA	4635.905857	4613.589181	0.995186124	-0.006962
STARD7	680.1970133	676.7041934	0.994864988	-0.007427
PRELP	2944.218464	2929.05132	0.994848499	-0.007451
ACSF2	293.8715252	292.2384284	0.994442821	-0.00804
KCMF1	724.2227099	720.03993	0.994224456	-0.008357
ARHGAP5	5319.404798	5286.959856	0.993900644	-0.008826
PHF23	637.271959	633.3684569	0.993874668	-0.008864
KLF12	350.0042884	347.7970649	0.993693725	-0.009127
ARSD	547.0192809	543.3634657	0.993316844	-0.009674
SNUPN	135.3790172	134.4519005	0.993151696	-0.009914
FBXO7	1070.925071	1063.392304	0.992966112	-0.010184
RASSF4	200.3169198	198.8999189	0.992926205	-0.010242
MOB1A	731.9272068	726.7069664	0.992867815	-0.010326
CSDE1	12148.89099	12061.78	0.992829717	-0.010382
EIF2B4	528.3083598	524.4735292	0.992741302	-0.01051
ZNF444	132.07709	131.1183823	0.992741302	-0.01051
ZNF570	198.1156349	196.6775735	0.992741302	-0.01051
LRIG2	1055.516077	1047.835886	0.992723757	-0.010536
FAM53C	195.9143501	194.455228	0.992552245	-0.010785
IST1	773.7516187	767.8203574	0.992334412	-0.011102
SIPA1	254.2483982	252.23621	0.992085739	-0.011463
PPARD	562.4282747	557.8087112	0.991786395	-0.011899
SYNE3	123.2719506	122.2290005	0.991539436	-0.012258
P2RY1	183.8072835	182.232328	0.991431484	-0.012415
PPP4R1	1155.674537	1145.619086	0.991299063	-0.012608
FOSL2	540.4154264	535.5852566	0.991062117	-0.012953
TTN	5248.963683	5201.399556	0.990938377	-0.013133
NDUFS4	236.6381195	234.4574463	0.990784776	-0.013356
BAG3	587.7430503	582.2545113	0.990661669	-0.013536
VPS39	1116.05141	1105.616868	0.990650482	-0.013552
FAM200B	116.6680961	115.5619641	0.990518984	-0.013743
ZNF688	58.33404806	57.78098203	0.990518984	-0.013743
AKAP1	1830.368338	1812.322725	0.990140994	-0.014294
GATA5	56.13276323	55.55863657	0.989771987	-0.014832
LYSMD2	56.13276323	55.55863657	0.989771987	-0.014832
ARHGEF33	56.13276323	55.55863657	0.989771987	-0.014832
NLRP1	390.7280578	386.6881105	0.989660463	-0.014994
TENM3	444.6595362	440.0244016	0.989575992	-0.015118
ACOXL	221.2291257	218.9010281	0.989476532	-0.015263
CCDC57	659.2848074	652.2583934	0.989342369	-0.015458
PPM1G	1191.995737	1178.954268	0.989059131	-0.015871
SYDE1	161.7944352	160.0088733	0.988964009	-0.01601
MED19	161.7944352	160.0088733	0.988964009	-0.01601
WBP1L	376.4197064	372.242865	0.988903765	-0.016098
PLAGL2	268.5567496	265.5702828	0.988879569	-0.016133
ZNF572	106.7623144	105.5614095	0.988751603	-0.01632
TRPS1	6870.209963	6791.487735	0.988541511	-0.016627
PAPSS2	105.661672	104.4502368	0.988534772	-0.016636
OAZ3	52.83083598	52.22511838	0.988534772	-0.016636
CAP1	1418.728075	1402.299987	0.988420552	-0.016803
SEMA4A	416.0428334	411.1339106	0.98820092	-0.017124
ADAMTS2	518.4025781	512.2506292	0.988132874	-0.017223
POLDIP2	567.9314868	561.1422294	0.98804564	-0.01735
VWA2	361.0107125	356.6864468	0.98802178	-0.017385
AGO2	1387.910087	1371.187151	0.987950994	-0.017489
MLPH	1850.179902	1827.879143	0.987946708	-0.017495
TOP1MT	409.4389789	404.4668742	0.987856299	-0.017627
TBC1D19	307.0792341	303.3501557	0.987856299	-0.017627
FAM120C	307.0792341	303.3501557	0.987856299	-0.017627
DDX3X	4022.848032	3973.553688	0.987746407	-0.017787
MOSPD2	302.6766645	298.9054648	0.987540501	-0.018088
MRPS31	300.4753796	296.6831193	0.987379131	-0.018324
S100A10	900.3254965	888.9381852	0.987352006	-0.018364
FBXO3	494.1884449	487.8048291	0.987082628	-0.018757
ZNF236	834.2869516	823.378994	0.986925413	-0.018987
SCAMP2	1176.586743	1161.175504	0.98690174	-0.019022
CCDC86	194.8137077	192.2328825	0.986752343	-0.01924
MED13L	6903.229235	6811.488844	0.986710511	-0.019301
UBOX5	242.1413316	238.9021373	0.986622712	-0.01943
ARID5A	238.8394043	235.5686191	0.986305504	-0.019894
BAIAP2L1	570.1327716	562.2534021	0.986179764	-0.020077
INKA2	47.3276239	46.66925472	0.986089114	-0.02021
CHST12	325.7901552	321.1289194	0.985692521	-0.02079
FBXO41	46.22698148	45.55808199	0.985530107	-0.021028
E2F7	46.22698148	45.55808199	0.985530107	-0.021028
DSCAML1	46.22698148	45.55808199	0.985530107	-0.021028
MIR497HG	46.22698148	45.55808199	0.985530107	-0.021028
UTP6	736.3297765	725.5957936	0.985422316	-0.021186
FANCD2	230.034265	226.6792372	0.985415095	-0.021197
MDH1B	183.8072835	181.1211552	0.985386171	-0.021239
ZC3H15	620.710247	218.9010281	2.835574837	1.503641
EPHA3	277.1620621	97.78320037	2.834454805	1.503071
FARSB	1735.167281	612.256175	2.834054358	1.502867
MBD3	91.28091867	32.22400921	2.832699	1.502177
CEBPZ	1985.774894	701.1499935	2.832168456	1.501907
ENTPD1	195.0092353	68.89270935	2.830622241	1.501119
LYN	629.0085123	222.2345463	2.830381337	1.500996
RBM4	263.8848376	93.33850944	2.827180755	1.499364
MSN	1556.754577	551.1416748	2.824599641	1.498046
RBAK	373.42194	132.229555	2.82404293	1.497762
HDGF	1514.433423	536.6964293	2.821769143	1.4966
ZDHHC22	28.21410213	10.00055458	2.821253752	1.496336
EPC2	1077.944667	382.2434196	2.820047675	1.49572
NSA2	460.553726	163.3423915	2.819560322	1.49547
DDX20	780.0369414	276.6820101	2.81925428	1.495314
GABRD	165.9653067	58.89215477	2.818122504	1.494734
LEF1	1624.800352	576.6986476	2.817416616	1.494373
PHYH	735.2263086	261.1255919	2.815604182	1.493445
ZNF354A	800.7826047	284.4602192	2.815095224	1.493184
KIF6	40.66150013	14.44524551	2.814870824	1.493069
BAZ1B	4564.87576	1622.312188	2.813808461	1.492524
VAMP4	106.2177963	37.77987287	2.811491628	1.491336
CRLF3	658.8822675	234.4574463	2.810242446	1.490695
PTBP2	1401.577015	498.9165564	2.809241339	1.490181
GEM	143.5599903	51.11394565	2.808626657	1.489865
UBLCP1	551.8346447	196.6775735	2.805783267	1.488404
SMC1A	4300.161096	1534.529542	2.802266739	1.486594
LGI3	24.894796	8.889381852	2.800509239	1.485689
ZNF286A	24.894796	8.889381852	2.800509239	1.485689
BSG-AS1	24.894796	8.889381852	2.800509239	1.485689
ENSG000002	12.447398	4.444690926	2.800509239	1.485689
RCC2P6	12.447398	4.444690926	2.800509239	1.485689
SMIM47	12.447398	4.444690926	2.800509239	1.485689
ITPRIP	62.23699	22.22345463	2.800509239	1.485689
HSPA14	473.001124	168.8982552	2.800509239	1.485689
PGBD1	693.7349819	247.7915191	2.799672016	1.485258
VPS26A	1063.007789	380.0210742	2.797233789	1.484001
TRA2B	3670.322757	1313.406169	2.794507019	1.482594
XRCC2	96.25987787	34.44635467	2.794486638	1.482583
SLC29A1	285.4603275	102.2278913	2.792391821	1.481501
KAT6A	9667.479114	3464.636577	2.790329923	1.480436
CBFA2T3	105.3879697	37.77987287	2.789526849	1.48002
TTLL7	1439.749035	516.6953201	2.786456504	1.478432
ZNF397	470.5116444	168.8982552	2.785769716	1.478076
TTYH2	195.0092353	70.00388208	2.785691729	1.478036
CPSF3	1575.01076	565.5869203	2.784736888	1.477541
CNOT7P1	34.02288787	12.22290005	2.783536455	1.476919
DCLK1	395.8272564	142.2301096	2.783006056	1.476644
ANKRD9	157.6670413	56.6698093	2.782205257	1.476229
ELOC	639.7962572	230.0127554	2.781568596	1.475899
RPL38	2009.010037	722.2622754	2.781551945	1.47589
ONECUT2	200.8180211	72.22622754	2.780403018	1.475294
TP53I3	389.1886441	140.0077642	2.779764726	1.474963
PAX8-AS1	120.3248473	43.33573653	2.776573262	1.473305
ATP2C2-AS	120.3248473	43.33573653	2.776573262	1.473305
ENSG000002	21.57548987	7.77820912	2.773837722	1.471883
EML4	3729.240441	1345.630178	2.771370992	1.4706
TCEA1	1750.933985	632.2572842	2.769337783	1.469541
TMEM178B	301.2270316	108.8949277	2.766217289	1.467914
POLR2H	633.157645	228.9015827	2.766069319	1.467837
RP2	414.9132667	150.0083187	2.765935051	1.467767
FBXO48	82.98265334	30.00166375	2.765935051	1.467767
GTF2A1	1118.606167	404.4668742	2.765631102	1.467609
FRY	814.0598292	294.4607738	2.764578177	1.467059
SNRPG	307.0358173	111.1172731	2.763169115	1.466324
NAMPT	1675.419771	606.7003114	2.761527791	1.465467
GRPEL2	159.3266944	57.78098203	2.757424481	1.463321
TXNL1	1120.26582	406.6892197	2.754599251	1.461842
KLRG1	48.95976547	17.7787637	2.753834085	1.461442
NOM1	214.0952456	77.7820912	2.752500509	1.460743
MIRLET7BH	107.0476228	38.8910456	2.752500509	1.460743
SEPTIN7	800.7826047	291.1272556	2.750627395	1.459761
CRIPT	461.3835526	167.7870824	2.749815694	1.459335
DUOX1	67.2159492	24.44580009	2.749590889	1.459217
SEC61G	403.2956952	146.6748005	2.749590889	1.459217
SREK1IP1	143.5599903	52.22511838	2.748868643	1.458838
FXR1	2184.103436	795.5996757	2.745229168	1.456927
VTA1	1058.02883	385.5769378	2.744014816	1.456288
DCTN6	249.7777865	91.11616398	2.741311482	1.454866
ZNF765	432.3396239	157.7865279	2.740028757	1.454191
FAM3C2P	54.7685512	20.00110917	2.7382757	1.453268
ARG1	27.3842756	10.00055458	2.7382757	1.453268
MARCHF6-I	27.3842756	10.00055458	2.7382757	1.453268
B3GAT1	63.89664307	23.33462736	2.7382757	1.453268
CDKN2AIPN	136.921378	50.00277291	2.7382757	1.453268
CHCHD7	146.0494699	53.33629111	2.7382757	1.453268
STAC3	18.25618373	6.667036389	2.7382757	1.453268
LINC02616	18.25618373	6.667036389	2.7382757	1.453268
VPS37D	9.128091867	3.333518194	2.7382757	1.453268
BTLA	9.128091867	3.333518194	2.7382757	1.453268
BCL2L15	9.128091867	3.333518194	2.7382757	1.453268
RPL21P75	9.128091867	3.333518194	2.7382757	1.453268
GOT1-DT	9.128091867	3.333518194	2.7382757	1.453268
NAALADL2	9.128091867	3.333518194	2.7382757	1.453268
ASH1L-AS1	9.128091867	3.333518194	2.7382757	1.453268
OR7E7P	9.128091867	3.333518194	2.7382757	1.453268
ENSG000002	9.128091867	3.333518194	2.7382757	1.453268
ENSG000002	9.128091867	3.333518194	2.7382757	1.453268
HP	9.128091867	3.333518194	2.7382757	1.453268
ENSG000002	9.128091867	3.333518194	2.7382757	1.453268
LINC02367	9.128091867	3.333518194	2.7382757	1.453268
COPB2-DT	38.52248457	63.06681654	1.637143015	0.71118
BCCIP	668.0899467	1093.711371	1.637072039	0.711118
SP3	2993.747372	4900.955506	1.637063819	0.711111
EIF2S2	803.4689639	1315.275055	1.636995471	0.71105
TSG101	573.4346989	938.5338092	1.636688207	0.71078
SEMA4C	556.9250626	911.1495336	1.636036147	0.710205
SNHG16	58.33404806	95.43005134	1.635923693	0.710105
ATP5F1E	1374.702378	2248.829905	1.635866746	0.710055
HDAC1	849.6959454	1389.959443	1.635831559	0.710024
RHOB	534.9122143	874.6371662	1.635104121	0.709383
RIC8B	396.2312699	647.264696	1.633552789	0.708013
PSME2	52.83083598	86.30195947	1.633552789	0.708013
ZFR2	6.603854498	10.78774493	1.633552789	0.708013
RNU6-2	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
PLCB1-IT1	6.603854498	10.78774493	1.633552789	0.708013
FTLP3	6.603854498	10.78774493	1.633552789	0.708013
MRAP-AS1	6.603854498	10.78774493	1.633552789	0.708013
MKLN1-AS	6.603854498	10.78774493	1.633552789	0.708013
GSK3B-DT	6.603854498	10.78774493	1.633552789	0.708013
CFHR1	6.603854498	10.78774493	1.633552789	0.708013
PCDHGB8P	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
NARF-AS2	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
LINC02335	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	6.603854498	10.78774493	1.633552789	0.708013
ENSG000002	26.41541799	43.15097974	1.633552789	0.708013
SPATA4	13.207709	21.57548987	1.633552789	0.708013
ACSM5	13.207709	21.57548987	1.633552789	0.708013
MT-TM	13.207709	21.57548987	1.633552789	0.708013
LINC01963	13.207709	21.57548987	1.633552789	0.708013
GTF3C2-AS2	19.81156349	32.3632348	1.633552789	0.708013
ADGRA3P1	19.81156349	32.3632348	1.633552789	0.708013
WDR11	1261.336209	2059.629456	1.632894894	0.707432
COPG2	452.3640331	738.5456147	1.632635578	0.707203
MAZ	1494.672401	2439.690008	1.632257347	0.706869
PPP1R16B	100.1584599	163.4758271	1.632171933	0.706793
EXOSC10	1102.843701	1799.893751	1.632047904	0.706683
ZSCAN9	201.4175622	328.6113072	1.631492823	0.706193
PTBP1	1270.141348	2071.247027	1.630721675	0.705511
STX16	115.5674537	188.3706231	1.629962563	0.704839
GCDH	224.5310529	365.9535012	1.629856968	0.704745
EXTL2	217.9271984	355.1657563	1.629744974	0.704646
GTPBP8	170.5995745	277.9918887	1.629499308	0.704429
DPH7	191.5117804	312.0147765	1.629219758	0.704181
VDAC1	350.0042884	570.0908284	1.628810981	0.703819
ZBTB21	1164.479676	1896.153629	1.62832694	0.70339
LSG1	578.937911	942.6829419	1.628297135	0.703364
VPS45	551.4218506	897.8723091	1.628285691	0.703354
FBXO27	130.9764475	213.2654191	1.628273045	0.703343
SRSF2	1282.248415	2087.843558	1.628267607	0.703338
OPA3	117.7687385	191.6899292	1.627680924	0.702818
JMJD6	333.4946521	542.7065528	1.627332101	0.702509
PAQR6	41.82441182	68.04577574	1.626939215	0.70216
HDGFL3	641.6745287	1043.921779	1.626871151	0.7021
OBSL1	894.8222845	1455.51574	1.626597554	0.701857
UQCRC1	539.314784	877.1266458	1.626372337	0.701658
RIC3	112.2655265	182.5618373	1.626161148	0.70147
STEEP1	140.8822293	229.0321232	1.62569917	0.70106
RAB36	49.52890873	80.49317374	1.625175595	0.700596
GRB2	633.9700318	1029.814728	1.624390233	0.699898
SLC1A2	14.30835141	23.23514293	1.623886796	0.699451
ILVBL	128.7751627	209.1162864	1.623886796	0.699451
KAT5	372.0171367	604.1137163	1.623886796	0.699451
MATR3	71.54175706	116.1757147	1.623886796	0.699451
TEAD4	71.54175706	116.1757147	1.623886796	0.699451
HAUS4	42.92505424	69.7054288	1.623886796	0.699451
KRT10	193.7130653	314.5042561	1.623557274	0.699158
BAG1	215.7259136	350.1867971	1.623295001	0.698925
GALNT2	1287.751627	2090.333038	1.623242397	0.698878
ATRAID	500.7922994	812.4001762	1.622229769	0.697978
MAPK6	482.0813783	781.6965944	1.621503401	0.697332
TTC30A	439.1563241	711.9911656	1.621270437	0.697125
SNX11	66.03854498	107.0476228	1.620986998	0.696873
CDKN2B	66.03854498	107.0476228	1.620986998	0.696873
RIBC1	22.01284833	35.68254093	1.620986998	0.696873
CYB5B	155.1905807	251.4374396	1.620184927	0.696158
MPHOSPH6	119.9700234	194.1794088	1.618566066	0.694716
OTULIN	264.1541799	427.3606647	1.617845551	0.694074
ZW10	287.2676707	464.7028587	1.617665008	0.693913
PCSK5	487.5845904	788.3352067	1.616817312	0.693157
STK24	1136.963616	1837.235945	1.615914458	0.692351
MUTYH	15.40899383	24.894796	1.61560166	0.692072
PPP1R14BP3	15.40899383	24.894796	1.61560166	0.692072
CSKMT	15.40899383	24.894796	1.61560166	0.692072
MMADHCP2	15.40899383	24.894796	1.61560166	0.692072
ENSG000002	15.40899383	24.894796	1.61560166	0.692072
ZIC4	7.704496914	12.447398	1.61560166	0.692072
SYCP1	7.704496914	12.447398	1.61560166	0.692072
RN7SKP255	7.704496914	12.447398	1.61560166	0.692072
TMEM44-AS	7.704496914	12.447398	1.61560166	0.692072
TRNP1	7.704496914	12.447398	1.61560166	0.692072
RCC2P6	7.704496914	12.447398	1.61560166	0.692072
ENSG000002	7.704496914	12.447398	1.61560166	0.692072
ENSG000002	7.704496914	12.447398	1.61560166	0.692072
SLC7A5	92.45396297	149.368776	1.61560166	0.692072
TMEM132A	272.9593192	440.6378892	1.614298755	0.690908
AASDHPPT	179.4047139	289.6094601	1.614280104	0.690891

TLN2	729.725922	718.9287572	0.985203808	-0.021506
SEMA4D	952.0556901	937.8297853	0.985057697	-0.02172
PCID2	316.9850159	312.2395375	0.985029329	-0.021761
YES1	1080.830853	1064.503477	0.984893681	-0.02196
CEPT1	621.8629652	612.256175	0.984551596	-0.022461
TMEFF2	6219.730295	6122.56175	0.98437737	-0.022717
GNA12	616.3597531	606.7003114	0.984328241	-0.022789
CREBBP	11844.01304	11657.31313	0.984236769	-0.022923
PTTG1IP	650.479668	640.0354933	0.983943888	-0.023352
LARS2	345.6017187	340.0188558	0.983845963	-0.023496
PI4KA	2622.830878	2580.143082	0.983724534	-0.023674
CDH22	42.92505424	42.22456379	0.983681082	-0.023737
ALKBH4	42.92505424	42.22456379	0.983681082	-0.023737
TMEM63C	42.92505424	42.22456379	0.983681082	-0.023737
DNAAF9	1026.899374	1010.056013	0.983597846	-0.02386
HSPBAP1	212.4239863	208.9004735	0.98341283	-0.024131
MRPS25	169.4989321	166.6759097	0.983344896	-0.024231
HNRNPM	2272.82659	2234.568363	0.983167116	-0.024491
UTP23	210.2227015	206.678128	0.98313896	-0.024533
WDR35	1289.952912	1267.848087	0.982863851	-0.024937
AP2M1	1939.331938	1905.661234	0.982637989	-0.025268
KIF9	205.8201318	202.2334371	0.982573645	-0.025363
LTA4H	1354.890814	1331.184932	0.982503474	-0.025466
RAB6A	1389.010729	1364.520114	0.982368304	-0.025664
ENSG000002	81.44753881	80.00443666	0.98228182	-0.025791
MED17	40.7237694	40.00221833	0.98228182	-0.025791
ENSG000002	40.7237694	40.00221833	0.98228182	-0.025791
CCDC141	282.865101	277.7931829	0.982069481	-0.026103
ATP5PD	525.0064326	515.5841474	0.98205301	-0.026127
DAZAP1	1089.635992	1070.05934	0.982033769	-0.026155
KIF13B	1814.959344	1782.321061	0.982017072	-0.02618
NBPF11	559.1263475	548.9193293	0.981744702	-0.02658
STXBP3	814.4753881	798.9331939	0.98091754	-0.027796
ARMC8	927.8415569	910.050467	0.980825293	-0.027932
ELL	308.1798766	302.238983	0.980722643	-0.028083
ENPEP	154.0899383	151.1194915	0.980722643	-0.028083
RCN1	77.04496914	75.55974574	0.980722643	-0.028083
URGCP	536.0128567	525.584702	0.980544954	-0.028344
CCDC138	151.8886534	148.897146	0.980304602	-0.028698
SRPRA	1231.618864	1206.733586	0.97979466	-0.029449
SLC25A4	297.1734524	291.1272556	0.979654317	-0.029655
MEGF6	184.9079259	181.1211552	0.979520777	-0.029852
MRPS35	442.4582514	433.3573653	0.979431085	-0.029984
GLIS1	147.4860838	144.4524551	0.979431085	-0.029984
DOK4	73.74304189	72.22622754	0.979431085	-0.029984
SUCO	1391.212014	1362.297769	0.979216507	-0.0303
PATZ1	694.5053647	680.0377116	0.979168407	-0.030371
MAN1A2	2698.775205	2642.368755	0.979099241	-0.030473
HMBS	36.32119974	35.55752741	0.978974474	-0.030657
PTK2	3658.535392	3581.309713	0.978891641	-0.030779
POLE	974.0685384	953.3862036	0.978767064	-0.030963
SELENOF	757.2419824	741.1522119	0.978752141	-0.030985
SHQ1	288.3683131	282.2378738	0.97874094	-0.031001
SLC39A6	3628.818047	3551.30805	0.978640429	-0.031149
NPIPB13	214.6252712	210.0116462	0.978503813	-0.031351
FMO2	71.54175706	70.00388208	0.978503813	-0.031351
USP30	392.9293426	384.4657651	0.978460307	-0.031415
MARF1	106.7623144	104.4502368	0.978343691	-0.031587
TBCC	177.203429	173.3429461	0.978214401	-0.031777
C3AR1	177.203429	173.3429461	0.978214401	-0.031777
SLC25A27	494.1884449	483.3601382	0.978088709	-0.031963
ZBTB44	952.0556901	931.1627489	0.978054917	-0.032013
SRSF5	2463.237728	2407.911309	0.977539148	-0.032774
EIF1AD	138.6809445	135.5630732	0.977517667	-0.032805
SERPINB1	242.1413316	236.6797918	0.977444826	-0.032913
PAK2	1174.385458	1147.841432	0.977397518	-0.032983
TMED3	725.3233523	708.9282027	0.977396082	-0.032985
PIK3CD	171.7002169	167.7870824	0.977209496	-0.03326
SKAP2	476.5781663	465.5813745	0.976925523	-0.03368
RNF103	1046.710938	1022.278913	0.976658288	-0.034074
PCMT1	472.1755966	461.1366835	0.97662117	-0.034129
EVA1C	268.5567496	262.2367646	0.976466855	-0.034357
RIMOC1	268.5567496	262.2367646	0.976466855	-0.034357
RPL39	368.7152095	360.019965	0.976417451	-0.03443
ARL15	100.1584599	97.78320037	0.976284984	-0.034626
ALDH3B2	33.01927249	32.22400921	0.975915179	-0.035172
IPO11	558.0257051	544.4746384	0.975716053	-0.035467
SAAL1	130.9764475	127.7848641	0.975632387	-0.03559
SWT1	325.7901552	317.7954012	0.975460419	-0.035845
ZNF699	162.8950776	158.8977006	0.975460419	-0.035845
YAP1	1495.773044	1458.969796	0.975395166	-0.035941
UAP1L1	64.93790256	63.33684569	0.975344802	-0.036016
SERPINB6	1708.19703	1665.647924	0.975091219	-0.036391
SPEF2	578.937911	564.4757476	0.975019492	-0.036497
RBM15	1313.066403	1280.070987	0.974871479	-0.036716
LRRC37A	95.75589022	93.33850944	0.974754756	-0.036889
NSUN4	414.9421909	404.4668742	0.974754756	-0.036889
GPR63	63.83726015	62.22567296	0.974754756	-0.036889
NAA40	127.6745203	124.4513459	0.974754756	-0.036889
WDR83	62.73661773	61.11450023	0.974144008	-0.037793
SLC7A6	250.9464709	244.4580009	0.974144008	-0.037793
TUBGCP4	250.9464709	244.4580009	0.974144008	-0.037793
CRY1	405.0364092	394.4663197	0.97390336	-0.038149
TRAPPC13	217.9271984	212.2339917	0.973875649	-0.038191
CWH43	523.9057902	510.0282837	0.973511447	-0.03873
CCDC77	92.45396297	90.00499125	0.973511447	-0.03873
LTBR	797.9657518	776.7097393	0.97336225	-0.038951
ENOX1	183.8072835	178.8988098	0.973295543	-0.03905
HMGB2	275.1606041	267.7926283	0.973222999	-0.039158
PATL1	1039.006441	1011.167186	0.973205888	-0.039183
PSMF1	969.6659688	943.385649	0.972897554	-0.03964
ENSG000002	9.128091867	3.333518194	2.7382757	1.453268
TBX2	173.4337455	63.33684569	2.7382757	1.453268
SRGAP2D	45.64045934	16.66759097	2.7382757	1.453268
PFDN2	522.790716	191.1217098	2.735381117	1.451742
RNF168	2343.43013	856.7141759	2.735369854	1.451736
EMC6	331.1007868	121.1178277	2.733708101	1.450859
NRXN2	321.9726949	117.7843095	2.733578829	1.450791
DYNLL2	1223.994137	447.8026108	2.733334079	1.450662
NUP58	1560.903709	571.142784	2.732948315	1.450458
TP53INP2	433.999277	158.8977006	2.731312507	1.449594
POLR2K	707.0122064	258.9032464	2.730796992	1.449322
MAPK9	1546.796658	566.698093	2.729489789	1.448631
NAMPTP1	139.4108576	51.11394565	2.727452476	1.447554
ZNF184	799.9527782	293.3496011	2.726960511	1.447294
SMIM13	163.4758271	60.0033275	2.724446025	1.445963
ZNF326	1106.988596	406.6892197	2.721952149	1.444642
KRIT1	178.4127047	65.55919115	2.721398808	1.444348
NDUFS4	637.3067776	234.4574463	2.718219394	1.442662
ANOS1	866.3389008	318.9065739	2.71659154	1.441798
GBA1	33.19306133	12.22290005	2.715645322	1.441295
TRIP10	467.1923383	172.2317734	2.712579271	1.439665
TPPP	138.5810311	51.11394565	2.71121764	1.438941
KPNB1	8459.251681	3121.284203	2.710183095	1.43839
PDCD2L	105.3879697	38.8910456	2.709826082	1.4382
CHIC2	129.4529392	47.78042745	2.709329868	1.437936
CDKN1B	1167.565932	431.1350198	2.708121305	1.437292
TLCD3A	192.5197557	71.11505481	2.707158931	1.43678
RTL9	24.06496947	8.889381852	2.707158931	1.43678
KPNB1-DT	24.06496947	8.889381852	2.707158931	1.43678
POMP	1076.285014	397.7998379	2.7055944	1.435946
DKC1	1511.943944	558.9198839	2.705117473	1.435691
ZFP62	2971.608816	1098.949831	2.704044107	1.435119
MPP2	174.263572	64.44801842	2.703939955	1.435063
MSANTD3	624.8593796	231.1239281	2.703568534	1.434865
PPP1R14B	312.0147765	115.5619641	2.699978138	1.432948
MCMBP	2769.131142	1025.612431	2.699978138	1.432948
PA2G4	224.8829905	83.33795486	2.698446235	1.432129
SRFBP1	176.7530516	65.55919115	2.69608347	1.430865
GNPNAT1	452.2554607	167.7870824	2.695412865	1.430506
SDHA	68.87560227	25.55697282	2.694982804	1.430276
BNIP3L	1269.634596	471.1372381	2.694829645	1.430194
VRK2	443.1273688	164.4535643	2.694544024	1.430041
CHD5	487.9380016	181.1211552	2.693986801	1.429743
NCAM1	1743.465547	647.8137024	2.691306992	1.428307
PRPF40A	2021.457435	751.1527665	2.691140239	1.428218
CDK5	89.6212656	33.33518194	2.688488869	1.426795
LRRC25	29.8737552	11.11172731	2.688488869	1.426795
VNN1	14.9368776	5.555863657	2.688488869	1.426795
NCK1-DT	14.9368776	5.555863657	2.688488869	1.426795
DNAAF10	14.9368776	5.555863657	2.688488869	1.426795
ENSG000002	14.9368776	5.555863657	2.688488869	1.426795
TUFT1	594.1557979	221.1233736	2.686987759	1.42599
RABGGTB	770.079023	286.6825647	2.686173203	1.425552
CCDC59	385.0395115	143.3412824	2.686173203	1.425552
ZNF711	1095.371024	407.8003924	2.686047008	1.425485
TXN	1145.990443	426.6903289	2.685766152	1.425334
MME	4279.415433	1593.421697	2.685676642	1.425286
CSPG4	465.5326852	173.3429461	2.685616552	1.425253
UIMC1	1166.736106	434.468538	2.6854329	1.425155
GEMIN2	265.5444907	98.8943731	2.685132454	1.424993
GABRG3	346.0376644	128.8960368	2.684626098	1.424721
SEC63	2744.236346	1022.278913	2.68443016	1.424616
SOX30	95.43005134	35.55752741	2.683821354	1.424289
IPO9	3548.338257	1322.29555	2.683468348	1.424099
LYRM7	80.49317374	30.00166375	2.682956999	1.423824
ZNF774	80.49317374	30.00166375	2.682956999	1.423824
MRPL18	745.184227	277.7931829	2.682514449	1.423586
H4C5	5928.280754	2211.233736	2.680983317	1.422762
TEAD4	116.1757147	43.33573653	2.680829357	1.422679
RAB23	512.0029711	191.1217098	2.678936745	1.421661
SUGT1	461.3835526	172.2317734	2.678852708	1.421615
DNAJB5	172.6039189	64.44801842	2.678188145	1.421257
SLC25A33	618.2207674	231.1239281	2.674845363	1.419455
BEX2	1298.678525	485.5824836	2.674475642	1.419256
YWHAQ	7163.892463	2679.037455	2.674054612	1.419029
OAS2	56.42820427	21.1122819	2.672766712	1.418334
CFAP36	662.2015736	247.7915191	2.672414197	1.418144
ATG3	1309.46627	490.0271746	2.672231945	1.418045
OTULIN	427.3606647	160.0088733	2.670856033	1.417302
BFSP1	195.8390619	73.33740027	2.670384567	1.417048
MMRN2	118.6651943	44.44690926	2.669818808	1.416742
FABP5	1055.53935	395.5774924	2.668350376	1.415948
DYSF	263.8848376	98.8943731	2.668350376	1.415948
NUDT1	103.7283167	38.8910456	2.667151656	1.4153
NIPA2	20.74566333	7.77820912	2.667151656	1.4153
SRP9P1	20.74566333	7.77820912	2.667151656	1.4153
ENSG000002	20.74566333	7.77820912	2.667151656	1.4153
ZNF542P	20.74566333	7.77820912	2.667151656	1.4153
RPA2	838.1247987	314.461883	2.665266743	1.41428
NCL	15258.02047	5731.428949	2.662166906	1.412601
NNT	2628.890458	987.8325582	2.661271321	1.412116
SYN2	304.5463377	114.4507913	2.660936934	1.411934
PLVAP	413.2536136	155.5641824	2.656483049	1.409518
ANKRD33B	233.1812559	87.78264578	2.656348004	1.409444
ADAMDEC1	26.55444907	10.00055458	2.655297648	1.408874
SOX17	26.55444907	10.00055458	2.655297648	1.408874
BRCC3P1	26.55444907	10.00055458	2.655297648	1.408874
H4C12	26.55444907	10.00055458	2.655297648	1.408874
ST3GAL6	106.2177963	40.00221833	2.655297648	1.408874
LRRC20	218.2443783	82.22678213	2.654176323	1.408264
ZNHIT6	448.106328	168.8982552	2.653114016	1.407687
DGKE	266.3554647	429.8501443	1.613821382	0.690481
FIG4	455.6659603	735.2263086	1.613520369	0.690212
RAD51B	165.0963624	266.3743172	1.613447524	0.690147
TYW3	221.2291257	356.8254093	1.612922386	0.689677
HDAC8	198.1156349	319.4832153	1.612609805	0.689397
MRPS2	190.411138	307.0358173	1.612488747	0.689289
NOTCH1	1944.83515	3135.91447	1.61243202	0.689238
DNAJA1	1953.640289	3150.021521	1.612385626	0.689197
FUZ	63.83726015	102.8984901	1.611887633	0.688751
CFAP410	63.83726015	102.8984901	1.611887633	0.688751
DMWD	391.8287002	631.4979919	1.611668547	0.688555
PSMC6	658.1841649	1060.51831	1.61127898	0.688206
PPP3R1	104.5610295	168.4547863	1.611066637	0.688016
EIF4BP6	24.21413316	39.00184707	1.610705897	0.687693
SNRPA	500.7922994	806.5913904	1.610630578	0.687626
HSD17B7	105.661672	170.1144393	1.609991932	0.687053
GDI2	2058.201318	3313.497348	1.609899536	0.686971
ENSG000002	40.7237694	65.55629614	1.609779672	0.686863
HNRNPUL1	3747.687427	6032.838898	1.609749749	0.686836
PLXND1	1355.991457	2182.443783	1.609481956	0.686596
PNKP	326.8907976	526.1100222	1.609436625	0.686556
TRIM36	564.6295596	908.660054	1.609303018	0.686436
GIT1	561.3276323	902.8512683	1.608421208	0.685645
SOX17	16.50963624	26.55444907	1.608421208	0.685645
DDX11L2	16.50963624	26.55444907	1.608421208	0.685645
TRMT5	298.2740948	479.6397363	1.608050262	0.685313
SMYD2	804.5696063	1293.699566	1.607939892	0.685213
OAS3	274.0599617	440.6378892	1.607815627	0.685102
ZSCAN22	91.35332055	146.8792964	1.607815627	0.685102
BCAS2	315.8843735	507.8538384	1.607720676	0.685017
TUG1	315.8843735	507.8538384	1.607720676	0.685017
HNRNPCP2	41.82441182	67.2159492	1.607098493	0.684458
CEACAM19	67.13918739	107.8774493	1.606773235	0.684166
IFT52	226.7323378	364.2938481	1.606713236	0.684112
TMEM106C	454.5653179	730.2473494	1.606473967	0.683898
ETF1	463.3704573	744.3544004	1.606391579	0.683824
RSPH4A	25.31477557	40.66150013	1.606235853	0.683684
LRRC63	25.31477557	40.66150013	1.606235853	0.683684
PLAA	1075.327641	1726.869016	1.605900333	0.683382
FCHSD2	815.5760305	1309.46627	1.605572284	0.683088
TECR	383.0235609	614.9014612	1.605388086	0.682922
TDP1	351.1049308	563.4522162	1.604797218	0.682391
MMAB	171.7002169	275.5024091	1.604554811	0.682173
TM6SF1	94.6552478	151.8582556	1.60433002	0.681971
RPTOR	723.1220675	1160.097494	1.604289989	0.681935
ZNF764	51.73019357	82.98265334	1.604143492	0.681803
UFC1	431.4518272	692.0753288	1.604061648	0.68173
FAHD1	121.0706658	194.1794088	1.603851829	0.681541
CLCN4	129.8758051	208.2864599	1.603735659	0.681436
APEX1	69.34047223	111.1967555	1.60363424	0.681345
GPN1	166.1970049	266.3743172	1.602762441	0.680561
SPIN1	1227.216294	1966.688884	1.602560929	0.680379
AADAT	254.2483982	407.4448279	1.602546293	0.680366
ZNF274	368.7152095	590.8364918	1.602419636	0.680252
EBAG9	361.0107125	578.3890938	1.602138312	0.679999
PFKFB1	17.61027866	28.2141023	1.602138312	0.679999
FAHD2A	8.80513933	14.10705107	1.602138312	0.679999
AVPI1	8.80513933	14.10705107	1.602138312	0.679999
BAIAP2L2	8.80513933	14.10705107	1.602138312	0.679999
MFHAS1	8.80513933	14.10705107	1.602138312	0.679999
JPH3	8.80513933	14.10705107	1.602138312	0.679999
ITIH3	8.80513933	14.10705107	1.602138312	0.679999
PNLIP	8.80513933	14.10705107	1.602138312	0.679999
MRPL20-AS1	8.80513933	14.10705107	1.602138312	0.679999
ENSG000002	8.80513933	14.10705107	1.602138312	0.679999
POLR3B	582.2398382	932.7250235	1.601960158	0.679838
CYBC1	238.8394043	382.5500319	1.601704011	0.679608
ZNF428	141.9828717	227.3724701	1.601407743	0.679341
UBQLN1	1986.659561	3180.725102	1.601041851	0.679011
URM1	89.15203572	142.7301637	1.600974813	0.678951
SPAG16	258.6509678	414.0834401	1.600935205	0.678915
TRAPPC2B	80.34689639	128.6231127	1.600847307	0.678836
GLCE	375.319064	600.7944102	1.600756444	0.678754
AIFM1	537.1134992	859.7002886	1.600593338	0.678607
U2AF2	1281.147773	2050.501364	1.600519009	0.67854
ZNF689	161.7944352	258.9058784	1.600214977	0.678266
GADD45GIP	99.05781747	158.4968679	1.600044014	0.678112
STX1A	45.12633907	72.1949084	1.599839692	0.677927
MRPS10	307.0792341	491.2573078	1.599773782	0.677868
ARF6	780.3554732	1248.059106	1.599346899	0.677483
TMEM170A	36.32119974	58.08785734	1.599282451	0.677425
HYCC1	604.2526865	965.9180848	1.598533372	0.676749
TSSC4	55.03212081	87.96161254	1.598368575	0.6766
ZNF433-AS1	27.51606041	43.98080627	1.598368575	0.6766
LNPK	423.7473303	677.1384512	1.597976914	0.676247
C14orf119	184.9079259	295.4182459	1.59765053	0.675952
DOHH	46.22698148	73.85456147	1.59765053	0.675952
MEAF6	527.2077174	842.2739314	1.597613054	0.675918
PTPDC1	325.7901552	520.3012364	1.597044073	0.675404
CEP192	2628.33409	4197.262606	1.596928877	0.6753
OIP5-AS1	158.4925079	253.0970927	1.596902566	0.675276
ABTB2	140.8822293	224.8829905	1.596248098	0.674685
ZDHHC2	396.2312699	632.3278184	1.595855417	0.67433
TRAPPC1	199.2162773	317.8235623	1.595369447	0.673891
RAMP1	180.5053563	287.9498071	1.595242452	0.673776
TOMM22	209.1220591	333.5902664	1.59519406	0.673732
NOSIP	190.411138	303.7165112	1.595056436	0.673607
GXYLT1	190.411138	303.7165112	1.595056436	0.673607
ELP1	990.5781747	1579.98972	1.595017698	0.673572
ENSG000002	57.23340565	91.28091867	1.594888818	0.673456
NPM3	28.61670282	45.64045934	1.594888818	0.673456

SLC6A6	179.4047139	174.4541188	0.972405435	-0.04037
HERC4	1369.199166	1331.184932	0.972236155	-0.040621
VIRMA	2616.227024	2543.474382	0.972191771	-0.040687
ASIC3	29.71734524	28.89049102	0.97217604	-0.040711
MCM7	469.9743118	456.6919926	0.971738202	-0.04136
PDPK1	352.2055732	342.2412013	0.971708648	-0.041404
MRC1	1579.421867	1534.529542	0.971576736	-0.0416
DELE1	406.1370516	394.4663197	0.971264055	-0.042065
CAPZB	2347.670274	2280.126445	0.971229423	-0.042116
RHOQ	780.3554732	757.8198028	0.971121276	-0.042277
GARIN1B	28.61670282	27.77931829	0.97073791	-0.042846
ZNF823	312.5824462	303.3501557	0.970464463	-0.043253
RNGTT	282.865101	274.4596647	0.970284647	-0.04352
EIF3FP3	84.74946605	82.22678213	0.97023363	-0.043596
ABTB2	140.8822293	136.674246	0.970131199	-0.043748
RABL2A	250.9464709	243.3468282	0.96971608	-0.044366
TDP2	613.0578259	594.4774113	0.969692232	-0.044401
HSPD1	1278.946488	1240.068768	0.969601762	-0.044536
BAIAP2	583.3404806	565.5869203	0.969565698	-0.044589
CD109	332.3940097	322.2400921	0.969452164	-0.044758
ANKZF1	303.7773069	294.4607738	0.969331043	-0.044939
B3GNT4	27.51606041	26.66814555	0.969184729	-0.045156
METTL9	27.51606041	26.66814555	0.969184729	-0.045156
H2AC4	27.51606041	26.66814555	0.969184729	-0.045156
LSM12P1	82.54818122	80.00443666	0.969184729	-0.045156
SLC30A6	626.2655349	606.7003114	0.968758901	-0.04579
PPM1L	216.826556	210.0116462	0.968569764	-0.046072
ARMC2	135.3790172	131.1183823	0.9685281	-0.046134
CELF2	405.0364092	392.2439742	0.96841658	-0.0463
DHX38	674.6938012	653.3695661	0.968394203	-0.046334
FILIP1	188.2098532	182.232328	0.968240105	-0.046563
LAMB1	2496.257	2416.800691	0.96816982	-0.046668
ANKIB1	1546.402595	1496.749669	0.967891333	-0.047083
FZD5	399.5331971	386.6881105	0.967849764	-0.047145
ZNF879	132.07709	127.7848641	0.967502117	-0.047663
XRCC4	52.83083598	51.11394565	0.967502117	-0.047663
ALG9	26.41541799	25.55697282	0.967502117	-0.047663
B3GNTL1	26.41541799	25.55697282	0.967502117	-0.047663
CACNA1D	3605.704556	3487.971204	0.967348031	-0.047893
FBXO27	130.9764475	126.6736914	0.967148627	-0.04819
RBM7	104.5610295	101.1167186	0.967059324	-0.048324
ASF1A	156.2912231	151.1194915	0.966909648	-0.048547
GPR158	51.73019357	50.00277291	0.96660711	-0.048998
CDKN2AIPN	51.73019357	50.00277291	0.96660711	-0.048998
SLC11A2	724.2227099	700.0388208	0.96660711	-0.048998
ENSG000002	103.4603871	100.0055458	0.96660711	-0.048998
NCKAP1	2838.556792	2743.485474	0.966507164	-0.049148
SLC12A6	565.730202	546.6969839	0.966356369	-0.049373
CTNNA1	2774.719531	2681.259801	0.966317414	-0.049431
PSEN1	1097.340489	1060.058786	0.966025401	-0.049867
LUC7L	736.3297765	711.1505481	0.965804414	-0.050197
IDH3G	633.9700318	612.256175	0.965749396	-0.050279
IDH1	1898.608168	1833.435007	0.96567319	-0.050393
ANKRD30A	25.31477557	24.44580009	0.96567319	-0.050393
BCL6B	25.31477557	24.44580009	0.96567319	-0.050393
UBA5	628.4668197	606.7003114	0.9653657	-0.050853
TTI1	1055.516077	1018.945395	0.965352794	-0.050872
SMAP2	778.1541883	751.1527665	0.965300679	-0.05095
SGCB	651.5803104	628.923766	0.965228316	-0.051058
GUSBP11	100.1584599	96.67202764	0.965190836	-0.051114
SF3B6	649.3790256	626.7014205	0.965078014	-0.051283
FEZ1	74.84368431	72.22622754	0.965027687	-0.051358
RBBP7	2260.719523	2181.232072	0.964839755	-0.051639
RASEF	1263.537494	1218.956486	0.964717305	-0.051822
GTDC1	247.6445437	238.9021373	0.964697763	-0.051851
HINT1	641.6745287	618.9232114	0.964543836	-0.052081
SYVN1	930.0428418	896.7163943	0.964166761	-0.052645
JADE3	220.1284833	212.2339917	0.964136892	-0.05269
CNOT11	607.5546138	585.5880295	0.963844264	-0.053128
MARK2	1260.235567	1214.511795	0.963718076	-0.053317
HCK	121.0706658	116.6731368	0.963677998	-0.053377
H3C12	24.21413316	23.33462736	0.963677998	-0.053377
PSG4	24.21413316	23.33462736	0.963677998	-0.053377
REPIN1	869.5075089	837.8242395	0.963561822	-0.053551
AXIN2	362.111355	348.9082377	0.963538516	-0.053586
ENAH	2649.246296	2552.363764	0.963430153	-0.053748
EXOSC2	192.6124229	185.5658462	0.963415772	-0.05377
RPL19	1744.51823	1680.09317	0.963069999	-0.054287
DDA1	94.6552478	91.11616398	0.962610802	-0.054975
RBM25	1843.576047	1774.542852	0.962554734	-0.05506
MTHFD2L	165.0963624	158.8977006	0.96245428	-0.05521
RPL27	1032.402586	993.3884219	0.962210319	-0.055576
SNRNP25	93.55460539	90.00499125	0.962058371	-0.055804
FCHSD2	815.5760305	784.4879484	0.961882055	-0.056068
PPP3CB	953.1563325	916.7175034	0.961770354	-0.056236
SENP2	673.5931588	647.8137024	0.961728447	-0.056299
RUBCN	789.1606125	758.9309756	0.961693936	-0.05635
BECN1	835.387594	803.3778848	0.961682805	-0.056367
MAP3K3	532.7109295	512.2506292	0.961592115	-0.056503
ALCAM	2359.777341	2269.014718	0.961537633	-0.056585
PPM1B	138.6809445	133.3407278	0.961492787	-0.056652
CCDC148	138.6809445	133.3407278	0.961492787	-0.056652
KIF22	392.9293426	377.7987287	0.961492787	-0.056652
SH3BP2	529.4090022	508.917111	0.961292892	-0.056952
ZNF226	390.7280578	375.5763832	0.961221944	-0.057059
NSMCE4A	367.614567	353.3529286	0.961204915	-0.057084
DENND5B	479.8800935	461.1366835	0.960941472	-0.05748
UXS1	318.0856583	305.5725011	0.960661046	-0.057901
ACSS2	318.0856583	305.5725011	0.960661046	-0.057901
PIGL	158.4925079	152.2306642	0.960491232	-0.058156
MKRN5P	45.12633907	43.33573653	0.960320235	-0.058413
KCTD6	226.5426436	85.56030032	2.647754189	1.404769
ZNF750	64.7264696	24.44580009	2.647754189	1.404769
SLC25A48	32.3632348	12.22290005	2.647754189	1.404769
ARRDC1-AS	32.3632348	12.22290005	2.647754189	1.404769
ENSG000002	32.3632348	12.22290005	2.647754189	1.404769
ENSG000002	32.3632348	12.22290005	2.647754189	1.404769
CKB	3056.251122	1154.508468	2.647231447	1.404484
ALKBH2	135.2617249	51.11394565	2.646278295	1.403965
CENPL	179.2425312	67.78153662	2.644415281	1.402949
TRIQK	305.3761643	115.5619641	2.642531794	1.401921
MAGEH1	546.025859	206.678128	2.641914092	1.401584
ENTPD1-AS	131.9424188	50.00277291	2.638702038	1.399828
POLR3F	424.8711851	161.1200461	2.636985251	1.39889
SCAMP1	993.3023604	376.687556	2.636939672	1.398865
TUBBP1	1265.485463	480.02662	2.636281845	1.398505
SYK	877.9564723	333.3518194	2.633723355	1.397104
TCF12	3363.28694	1277.848641	2.631991639	1.396155
RPS26	245.6286539	93.33850944	2.631589634	1.395935
MRGBP	190.0302761	72.22622754	2.631042526	1.395635
OTUD3	359.3148889	136.674246	2.628987535	1.394507
MARK1	738.5456147	281.1267011	2.627091671	1.393467
HGF	84.6423064	32.22400921	2.626684527	1.393243
SINHCAF	84.6423064	32.22400921	2.626684527	1.393243
FAM204A	702.8630738	267.7926283	2.624654302	1.392127
NAV2	1204.0783	458.9143381	2.623753934	1.391632
DTYMK	439.8080627	167.7870824	2.62122719	1.390242
CLP1	177.5828781	67.78153662	2.619929954	1.389528
MRPS33	258.9058784	98.8943731	2.618004142	1.388467
HIF1A	4794.73771	1832.323834	2.616752356	1.387777
EMC2	1276.273208	487.8048291	2.61636034	1.387561
OR52N1	23.23514293	8.889381852	2.613808623	1.386154
BCL11A	11.61757147	4.444690926	2.613808623	1.386154
HIGD1B	11.61757147	4.444690926	2.613808623	1.386154
EN1	11.61757147	4.444690926	2.613808623	1.386154
NKRF	11.61757147	4.444690926	2.613808623	1.386154
OCLN	11.61757147	4.444690926	2.613808623	1.386154
ENSG000002	11.61757147	4.444690926	2.613808623	1.386154
ENSG000002	11.61757147	4.444690926	2.613808623	1.386154
ENSG000002	11.61757147	4.444690926	2.613808623	1.386154
SLC7A14-AS	11.61757147	4.444690926	2.613808623	1.386154
GCK	58.08785734	22.22345463	2.613808623	1.386154
RGPD2	58.08785734	22.22345463	2.613808623	1.386154
MADCAM1	5.808785734	2.222345463	2.613808623	1.386154
C22orf23	5.808785734	2.222345463	2.613808623	1.386154
JCHAIN	5.808785734	2.222345463	2.613808623	1.386154
NR1I2	5.808785734	2.222345463	2.613808623	1.386154
CYP3A4	5.808785734	2.222345463	2.613808623	1.386154
MMP26	5.808785734	2.222345463	2.613808623	1.386154
TAS2R1	5.808785734	2.222345463	2.613808623	1.386154
ENSG000001	5.808785734	2.222345463	2.613808623	1.386154
ODF3L1	5.808785734	2.222345463	2.613808623	1.386154
GJB4	5.808785734	2.222345463	2.613808623	1.386154
OLIG2	5.808785734	2.222345463	2.613808623	1.386154
RRM2P3	5.808785734	2.222345463	2.613808623	1.386154
PGAM1P6	5.808785734	2.222345463	2.613808623	1.386154
PWWP2AP1	5.808785734	2.222345463	2.613808623	1.386154
ZFAND2A-I	5.808785734	2.222345463	2.613808623	1.386154
DFFBP1	5.808785734	2.222345463	2.613808623	1.386154
RPL15P5	5.808785734	2.222345463	2.613808623	1.386154
LINC02940	5.808785734	2.222345463	2.613808623	1.386154
CLIC4P1	5.808785734	2.222345463	2.613808623	1.386154
DCLRE1CP1	5.808785734	2.222345463	2.613808623	1.386154
MRPS17	5.808785734	2.222345463	2.613808623	1.386154
RPL23AP7	5.808785734	2.222345463	2.613808623	1.386154
CBX5P1	5.808785734	2.222345463	2.613808623	1.386154
CCT5P1	5.808785734	2.222345463	2.613808623	1.386154
UBQLN1-AS	5.808785734	2.222345463	2.613808623	1.386154
PLBD1-AS1	5.808785734	2.222345463	2.613808623	1.386154
ENSG000002	5.808785734	2.222345463	2.613808623	1.386154
ATG12P1	5.808785734	2.222345463	2.613808623	1.386154
RUNDC3A-/	5.808785734	2.222345463	2.613808623	1.386154
ENSG000002	5.808785734	2.222345463	2.613808623	1.386154
LINC03072	5.808785734	2.222345463	2.613808623	1.386154
ENSG000002	5.808785734	2.222345463	2.613808623	1.386154
SMC5	2335.131865	893.3828761	2.613808623	1.386154
FBXO16	156.8372148	60.0033275	2.613808623	1.386154
VAMP7	98.74935747	37.77987287	2.613808623	1.386154
SNN	69.7054288	26.66814555	2.613808623	1.386154
ENSG000002	34.8527144	13.33407278	2.613808623	1.386154
E2F3	575.0697876	220.0122008	2.613808623	1.386154
ENSG000002	40.66150013	15.55641824	2.613808623	1.386154
AHSA1	1989.0942	761.153321	2.613263511	1.385853
PRTG	403.2956952	154.4530097	2.611122283	1.38467
SEMA3F	585.8575326	224.4568918	2.610111581	1.384111
HDGFL3	1043.921779	400.0221833	2.60965972	1.383862
DNAJB1	2491.139253	955.608549	2.606861623	1.382314
RPL36AL	2623.081672	1006.722495	2.60556577	1.381597
KLHL42	720.289431	276.6820101	2.603311399	1.380348
RPL22L1	303.7165112	116.6731368	2.603140016	1.380253
ANKRD49	335.2499195	128.8960368	2.600932718	1.379029
PSMB2	2293.640538	882.2711488	2.599700264	1.378345
SCARNA21	72.1949084	27.77931829	2.598872573	1.377886
ORC5	193.3495823	74.44857301	2.597089165	1.376896
MAPK6	781.6965944	301.1278102	2.595896387	1.376233
EIF2S3	5612.116845	2162.342135	2.595388007	1.37595
MTIF2	1605.714342	618.9232114	2.594367625	1.375383
ENSG000002	103.7283167	40.00221833	2.59306411	1.374658
CD58	250.6076131	96.67202764	2.592348782	1.37426
FFAR4	48.95976547	18.88993643	2.591843844	1.373979
ZKSCAN2	630.6681654	243.3468282	2.591643253	1.373867
TAF13	429.0203178	165.564737	2.591254186	1.373651
SPCS2P4	77.04496914	122.8143269	1.594060304	0.672706
KIFBP	550.3212081	877.1266458	1.593844891	0.672511
SCML1	173.9015018	277.1620621	1.593787629	0.672459
ENSG000002	86.95075089	138.5810311	1.593787629	0.672459
MTPN	425.9486151	678.7981043	1.593615005	0.672303
ACTR2	1201.901519	1915.239639	1.593507962	0.672206
ZNF324	146.3854414	233.1812559	1.592926549	0.67168
DDX3X	4022.848032	6406.260838	1.592469014	0.671265
TMEM126B	356.6081429	567.6013488	1.59166682	0.670538
MRPS5	49.52890873	78.83352067	1.59166682	0.670538
GPR156	9.905781747	15.76670413	1.59166682	0.670538
SCOC-AS1	9.905781747	15.76670413	1.59166682	0.670538
HRNR	9.905781747	15.76670413	1.59166682	0.670538
PPIAP31	9.905781747	15.76670413	1.59166682	0.670538
EBF2	9.905781747	15.76670413	1.59166682	0.670538
AIDAP1	9.905781747	15.76670413	1.59166682	0.670538
MTND5P26	9.905781747	15.76670413	1.59166682	0.670538
ENSG000002	9.905781747	15.76670413	1.59166682	0.670538
ENSG000002	9.905781747	15.76670413	1.59166682	0.670538
DDX50	551.4218506	877.1266458	1.590663563	0.669629
CSPG4	292.7708827	465.5326852	1.59009216	0.66911
DNAAF2	253.1477557	402.4658687	1.589845691	0.668887
CRK	50.62955115	80.49317374	1.589845691	0.668887
LYRM7	50.62955115	80.49317374	1.589845691	0.668887
AP4E1	184.9079259	293.7585928	1.588674965	0.667824
TRIM7	30.81798766	48.95976547	1.588674965	0.667824
PKNOX1	236.6381195	375.9114196	1.588549725	0.66771
TLE4	536.0128567	851.4020232	1.58839851	0.667573
VPS13A	4630.402645	7353.922739	1.588182131	0.667376
POU2AF3	103.4603871	164.3056536	1.588102057	0.667304
COX7A2L	559.1263475	887.9143907	1.588038902	0.667246
ALCAM	2359.777341	3746.666798	1.587720474	0.666957
PTGES2	198.1156349	314.5042561	1.587478223	0.666737
PRDX5	677.9957284	1076.285014	1.587451025	0.666712
SMIM19	230.034265	365.1236747	1.587257771	0.666536
ENSG000002	20.91220591	33.19306133	1.587257771	0.666536
COPS5	547.0192809	867.9985539	1.586778719	0.666101
MCTP1	245.4432588	389.1886441	1.585656278	0.66508
WDSUB1	213.5246288	338.5692256	1.585621423	0.665048
RGS12	512.899366	813.2300027	1.585554705	0.664988
DDX20	491.9871601	780.0369414	1.585482315	0.664922
TMEM70	203.618847	322.8025215	1.585327322	0.664781
PLRG1	666.9893043	1057.199004	1.585031419	0.664511
ATIC	947.6531204	1501.986025	1.58495339	0.66444
PEAR1	53.9314784	85.47213294	1.584828295	0.664327
SLC25A1	269.657392	427.3606647	1.584828295	0.664327
NHS	753.9400552	1194.120382	1.583839953	0.663427
KHSRP	1236.021434	1957.560792	1.583759585	0.663353
ABO	11.00642416	17.4263572	1.583289626	0.662925
SHMT1	11.00642416	17.4263572	1.583289626	0.662925
OR6J1	11.00642416	17.4263572	1.583289626	0.662925
ENSG000002	11.00642416	17.4263572	1.583289626	0.662925
SFT2D2	400.6338395	633.9874715	1.582461113	0.66217
SPRYD7	134.2783748	212.4355925	1.582053647	0.661799
SFMBT1	392.9293426	621.5400735	1.581811298	0.661578
ATP5F1C	1161.177749	1836.406118	1.581503021	0.661296
MAP1LC3B	158.4925079	250.6076131	1.581195328	0.661016
MORF4L2	1250.329785	1976.646802	1.580900356	0.660746
HNRNPC	5454.783815	8622.727508	1.580764298	0.660622
ACD	114.4668113	180.9021843	1.580389829	0.66028
MROH1	607.5546138	960.1092991	1.580284763	0.660185
HS6ST1	287.2676707	453.9151138	1.58011207	0.660027
PC	276.2612465	436.4887566	1.579985474	0.659911
ENSG000002	23.11349074	36.51236747	1.5796994	0.65965
ENSG000002	23.11349074	36.51236747	1.5796994	0.65965
LDAH	104.5610295	165.1354801	1.579321482	0.659305
GPAT4	802.3683215	1267.145116	1.579256163	0.659245
AGFG1	1675.177758	2643.827335	1.578236891	0.658314
SF3A2	505.1948691	796.633472	1.576883537	0.657076
SLC16A6	24.21413316	38.17202053	1.576435559	0.656666
RPS24P19	24.21413316	38.17202053	1.576435559	0.656666
ENSG000002	24.21413316	38.17202053	1.576435559	0.656666
COX4I2	12.10706658	19.08601027	1.576435559	0.656666
UCN	12.10706658	19.08601027	1.576435559	0.656666
GNAT3	12.10706658	19.08601027	1.576435559	0.656666
SMIM27	12.10706658	19.08601027	1.576435559	0.656666
ALG1L9P	12.10706658	19.08601027	1.576435559	0.656666
RGS19	36.32119974	57.2580308	1.576435559	0.656666
EXOSC1	122.1713082	192.5197557	1.575818075	0.656101
ZKSCAN4	122.1713082	192.5197557	1.575818075	0.656101
DTX1	61.63597531	97.0897044	1.575211618	0.655546
TPMT	457.8672452	721.1192575	1.574952708	0.655309
PGM2L1	805.6702487	1268.80477	1.574843767	0.655209
C9orf72	422.6466879	665.5208798	1.574650645	0.655032
PTP4A2	870.6081513	1370.873433	1.574615895	0.655
ZDHHC21	325.7901552	512.8327976	1.574119995	0.654546
EXOSC6	62.73661773	98.74935747	1.574030623	0.654464
FBXO15	25.31477557	39.8316736	1.573455529	0.653936
IL10RB	25.31477557	39.8316736	1.573455529	0.653936
CCDC43	215.7259136	339.3990521	1.573288283	0.653783
ERGIC2	1229.417579	1933.495823	1.572692514	0.653237
AAMDC	117.7687385	185.0513169	1.571311022	0.651969
FAM120AOS	342.2997915	537.7275936	1.570925858	0.651615
ENSG000002	13.207709	20.74566333	1.570723836	0.65143
ZNF542P	13.207709	20.74566333	1.570723836	0.65143
POLRMT	292.7708827	459.7238995	1.570251438	0.650996
CMBL	239.9400468	376.7412461	1.570147423	0.6509
EI24	400.6338395	629.0085123	1.570033408	0.650795
TSPAN14	461.1691724	723.6087371	1.569074388	0.649914
FN3KRP	217.9271984	341.8885317	1.568819928	0.64968
GLRX	27.51606041	43.15097974	1.568210678	0.649119

RHOA	361.0107125	346.6858922	0.960320235	-0.058413
DTX3	359.9100701	345.5747195	0.960169632	-0.058639
PPP4R3B	1895.306241	1818.989761	0.959733959	-0.059294
ZFTA	89.15203572	85.56030032	0.959712245	-0.059326
RANBP10	355.5075005	341.1300286	0.959557894	-0.059558
STAT2	1637.755915	1571.198242	0.959360444	-0.059855
TAS2R4	265.2548223	254.4585555	0.959298509	-0.059948
COL27A1	1280.04713	1227.845868	0.959219266	-0.060067
GGACT	22.01284833	21.1122819	0.959089055	-0.060263
PAXBP1-AS1	22.01284833	21.1122819	0.959089055	-0.060263
ENSG000002	22.01284833	21.1122819	0.959089055	-0.060263
DDX55	242.1413316	232.2351009	0.959089055	-0.060263
XIAP	857.4004423	822.2678213	0.959024256	-0.060361
TGFB3	527.2077174	505.5835928	0.958983672	-0.060422
TTN-AS1	855.1991575	820.0454758	0.958894158	-0.060557
LITAF	700.0085768	671.1483298	0.958771581	-0.060741
RAB11A	1028.000017	985.6102128	0.958764783	-0.060751
FLT4	130.9764475	125.5625187	0.958664867	-0.060902
NGLY1	785.8586852	753.3751119	0.958664867	-0.060902
EXTL2	217.9271984	208.9004735	0.958579172	-0.061031
MED6	303.7773069	291.1272556	0.958357484	-0.061364
PHYKPL	840.8908061	805.6002303	0.958031916	-0.061854
TTC17	2608.522527	2499.027473	0.95802411	-0.061866
ZBTB43	344.5010763	330.0183012	0.957960146	-0.061962
NOXRED1	42.92505424	41.11339106	0.957794738	-0.062212
SEC23A	1261.336209	1207.844759	0.957591442	-0.062518
SH3BP5	320.2869431	306.6836739	0.957527868	-0.062614
CNOT6	980.6723929	938.9409581	0.9574461	-0.062737
FTSJ3	723.1220675	692.2606117	0.957321928	-0.062924
CD4	148.5867262	142.2301096	0.957219486	-0.063078
WDR37	444.6595362	425.5791561	0.957089912	-0.063274
ATG12	190.411138	182.232328	0.957046577	-0.063339
KAT2B	421.5460454	403.3557015	0.956848501	-0.063638
EPB41L4A	525.0064326	502.2500746	0.956655087	-0.063929
ACBD5	775.9529035	742.2633846	0.956583036	-0.064038
LRFN5	125.4732355	120.006655	0.956432299	-0.064265
ISCA1	188.2098532	180.0099825	0.956432299	-0.064265
ARPC4	62.73661773	60.0033275	0.956432299	-0.064265
P2RY6	41.82441182	40.00221833	0.956432299	-0.064265
ARPC1A	20.91220591	20.00110917	0.956432299	-0.064265
SERP1	917.9357752	877.8264578	0.956304876	-0.064457
RALGAPA1	3470.325539	3316.850603	0.955775061	-0.065257
CHST11	165.0963624	157.7865279	0.95572383	-0.065334
MEX3C	577.8372686	552.2528475	0.95572383	-0.065334
HAUS2	61.63597531	58.89215477	0.955483457	-0.065697
AGAP1	1479.263408	1413.411714	0.955483457	-0.065697
GSR	1066.522501	1018.945395	0.955390433	-0.065838
SNX6	1004.886526	960.05324	0.955384728	-0.065846
PMS2	635.0706742	606.7003114	0.955327235	-0.065933
CARM1	812.2741032	775.5985665	0.954848325	-0.066657
ZXDB	344.5010763	328.9071285	0.954734691	-0.066828
FCGR2C	121.0706658	115.5619641	0.954500112	-0.067183
PTPN6	322.488228	307.7948466	0.954437464	-0.067277
PREP	483.1820208	461.1366835	0.954374674	-0.067372
DMTN	260.8522527	248.9026918	0.95419031	-0.067651
TTBK2	1139.164901	1086.726931	0.953968061	-0.067987
PDHB	398.4325547	380.0210742	0.95379022	-0.068256
H1-2	735.2291341	701.1499935	0.953648272	-0.068471
GGN	39.62312699	37.77987287	0.953480347	-0.068725
ABCB6	19.81156349	18.88993643	0.953480347	-0.068725
MFSD4A	19.81156349	18.88993643	0.953480347	-0.068725
CHMP2A	653.7815953	623.3679023	0.953480347	-0.068725
CLIC4	1026.899374	978.9431764	0.953300003	-0.068998
FZD3	452.3640331	431.1350198	0.953070952	-0.069344
DAGLB	156.2912231	148.897146	0.952690388	-0.069921
ST6GAL1	800.1670366	762.2644938	0.952631712	-0.07001
LARP6	429.2505424	408.9115652	0.952617469	-0.070031
TXNDC5	96.85653263	92.22733671	0.952205641	-0.070655
GOLPH3	2068.1071	1968.99808	0.952077424	-0.070849
OXSM	173.9015018	165.564737	0.952060421	-0.070875
DCTD	212.4239863	202.2334371	0.952027314	-0.070925
MPC2	616.3597531	586.6992022	0.951877859	-0.071152
ENSG000002	38.52248457	36.66870014	0.951877859	-0.071152
LZTS2	422.6466879	402.2445288	0.951727626	-0.071379
TXNDC17	134.2783748	127.7848641	0.951641426	-0.07151
KLHL13	440.2569665	418.9121198	0.951517299	-0.071698
SLC25A23	630.6681045	600.033275	0.9514248	-0.071838
OGA	4490.621058	4272.459152	0.951418322	-0.071848
TMEM178B	114.4668113	108.8949277	0.951323152	-0.071993
KSR1	266.3554647	253.3473828	0.951162699	-0.072236
ATP1B1	1825.965769	1736.762979	0.951147611	-0.072259
TLK2P1	75.94432672	72.22622754	0.951041778	-0.072419
DNM3	208.0214167	197.7887462	0.950809534	-0.072772
CSGALNACT	319.1863007	303.3501557	0.950385887	-0.073415
SRI	356.6081429	338.9076831	0.950364398	-0.073447
GALNT14	56.13276323	53.33629111	0.950181107	-0.073726
HCAR2	37.42184215	35.55752741	0.950181107	-0.073726
NPM2	18.71092108	17.7787637	0.950181107	-0.073726
WASH7P	18.71092108	17.7787637	0.950181107	-0.073726
FSIP2-AS1	18.71092108	17.7787637	0.950181107	-0.073726
ZNF44	504.0942267	478.9154472	0.950051443	-0.073922
ATP2A2	2908.997906	2763.486583	0.949978883	-0.074033
CACNB3	223.4304105	212.2339917	0.949888564	-0.07417
RANBP6	614.1584683	583.365684	0.949861826	-0.07421
TMEM70	203.618847	193.3440553	0.949539093	-0.074701
TRIB1	2238.706675	2125.673435	0.94950958	-0.074746
RAB22A	388.526773	368.9093468	0.949508174	-0.074748
SIX4	850.7965878	807.8225758	0.949489675	-0.074776
PAAF1	401.7344819	381.1322469	0.948716787	-0.075951
SLC4A1AP	600.9507593	570.0316112	0.948549615	-0.076205
SQOR	108.9635992	103.339064	0.948381522	-0.076461
MED31	141.0705107	54.44746384	2.590947323	1.37348
EED	682.1174104	263.3479374	2.590175633	1.37305
RIOK1	555.1539508	214.4563372	2.588657244	1.372204
ACTL6A	1141.84131	441.1355744	2.588413577	1.372068
RRP1B	704.5227268	272.2373192	2.58789915	1.371781
HPCAL1	488.7678282	188.8993643	2.587450889	1.371531
PLEKHG2	1448.877127	560.0310566	2.587137106	1.371357
NLN	632.3278184	244.4580009	2.58665217	1.371086
APOBR	37.342194	14.44524551	2.585085451	1.370212
POLR1D	666.3507063	257.7920737	2.584837838	1.370074
DYRK4	206.6268068	80.00443666	2.582691853	1.368876
ANP32E	1298.678525	503.3612473	2.580012926	1.367378
PDIA3	6558.119093	2543.474382	2.578409729	1.366482
HYLS1	114.5160616	44.44690926	2.5764685	1.365395
ZNF506	649.7541756	252.23621	2.575975018	1.365119
MMP15	389.1886441	151.1194915	2.575370261	1.36478
DNAJB11	638.1366042	247.7915191	2.575296388	1.364738
SETMAR	300.3972051	116.6731368	2.574690398	1.364399
SENP1	626.5190327	243.3468282	2.574592968	1.364344
MPHOSPH10	320.3130419	124.4513459	2.573801348	1.363901
PTPN11	2193.231528	852.269485	2.573401449	1.363677
ZNF143	288.7796336	112.2284459	2.573141162	1.363531
TFR2	25.72462253	10.00055458	2.572319597	1.36307
TMEM119	25.72462253	10.00055458	2.572319597	1.36307
ZNF146	1385.810311	538.9187747	2.571464153	1.36259
FICD	148.5389495	57.78098203	2.570723865	1.362175
CLOCK	2400.688161	934.4962671	2.568964955	1.361187
DDA1	234.0110824	91.11616398	2.568271887	1.360798
BCLAF1P2	91.28091867	35.55752741	2.567133469	1.360158
SMCHD1	7436.075565	2896.827311	2.566972335	1.360068
TUBA1B	11191.04063	4361.352971	2.565956185	1.359497
CCDC137	105.3879697	41.11339106	2.563348997	1.35803
WDR31	355.9955828	138.8965914	2.563026055	1.357848
MOCS2	350.1867971	136.674246	2.562200322	1.357383
CSTB	1943.453741	758.9309756	2.560777994	1.356582
ZFP69B	238.9900416	93.33850944	2.56046559	1.356406
PTPRB	677.1384512	264.4591101	2.56046559	1.356406
TMEM170B	99.579184	38.8910456	2.56046559	1.356406
NALF2	79.6633472	31.11283648	2.56046559	1.356406
ZDBF2	39.8316736	15.55641824	2.56046559	1.356406
ENSG000002	19.9158368	7.77820912	2.56046559	1.356406
ENSG000002	19.9158368	7.77820912	2.56046559	1.356406
RAP1BL	19.9158368	7.77820912	2.56046559	1.356406
LOXL1-AS1	19.9158368	7.77820912	2.56046559	1.356406
CSNK1G3	520.3012364	203.3446099	2.558716638	1.35542
CARHSP1	809.9106966	316.6842285	2.557470893	1.354718
ENO1	9728.056451	3804.655432	2.556882384	1.354386
MRPL32	221.5636844	86.67147305	2.556362279	1.354092
GOSR2	289.6094601	113.3396186	2.55523588	1.353456
TMEM63C	107.8774493	42.22456379	2.554850534	1.353239
PRMT8	53.93872467	21.1122819	2.554850534	1.353239
C9orf153	53.93872467	21.1122819	2.554850534	1.353239
SMNDC1	701.2034207	274.4596647	2.554850534	1.353239
ASNSD1	683.7770635	267.7926283	2.553382697	1.35241
SCGB2A1	380.0605523	148.897146	2.552503943	1.351913
AGBL3	68.04577574	26.66814555	2.551575084	1.351388
ADAM21	34.02288787	13.33407278	2.551575084	1.351388
PALB2	1272.953902	498.9165564	2.551436479	1.35131
EYA1	858.870462	336.6853376	2.55095891	1.35104
ZCCHC17	348.527144	136.674246	2.550057193	1.35053
APPL1	1934.325649	758.9309756	2.548750429	1.34979
ACE	226.5426436	88.89381852	2.548463407	1.349628
ZNF718	192.5197557	75.55974574	2.547914288	1.349317
CCDC96	48.12993894	18.88993643	2.547914288	1.349317
MFSD4A	48.12993894	18.88993643	2.547914288	1.349317
SEM1	973.3865236	382.2434196	2.546509564	1.348521
SEC14L2	62.23699	24.44580009	2.54591749	1.348186
BCL6B	62.23699	24.44580009	2.54591749	1.348186
S100A4	76.34404107	30.00166375	2.544660246	1.347473
ABCE1	1359.255862	534.4740838	2.543165146	1.346625
ZNF75A	731.9070024	287.7937374	2.543165146	1.346625
EIF5B	2582.420172	1015.611877	2.542723487	1.346375
PPTC7	392.5079503	154.4530097	2.541277448	1.345554
FAR1	1191.630902	468.9148927	2.541251985	1.345539
CALCB	28.21410213	11.11172731	2.539128376	1.344333
TMPRSS4	14.10705107	5.555863657	2.539128376	1.344333
FRG1JP	14.10705107	5.555863657	2.539128376	1.344333
CAPN10-DT	14.10705107	5.555863657	2.539128376	1.344333
P3H3	84.6423064	33.33518194	2.539128376	1.344333
GUCY1A2	84.6423064	33.33518194	2.539128376	1.344333
ANKEF1	713.6508187	281.1267011	2.538538019	1.343998
SSH2	2548.397284	1004.500149	2.536980493	1.343112
LSM12	326.9516541	128.8960368	2.536553195	1.342869
ELOVL6	163.4758271	64.44801842	2.536553195	1.342869
MYCN	121.1546739	47.78042745	2.535654877	1.342358
EXOG	185.8811435	73.33740027	2.534602301	1.341759
SERBP1P5	78.83352067	31.11283648	2.533794073	1.341299
ENSG000002	717.7999514	283.3490465	2.533271102	1.341001
SYT11	129.4529392	51.11394565	2.532634442	1.340639
GVQW3	151.8582556	60.0033275	2.530830571	1.339611
FAM210B	897.0424826	354.4641013	2.530700512	1.339537
SNTG2	73.02473494	28.89049102	2.527639108	1.33779
ENSG000002	36.51236747	14.44524551	2.527639108	1.33779
BAG5	1696.165434	671.1483298	2.527258668	1.337573
CHMP2B	482.9590424	191.1217098	2.526971127	1.337409
MRPS10	491.2573078	194.455228	2.526326048	1.337041
TMCC2	95.43005134	37.77987287	2.525949509	1.336826
CYGB	58.91768387	23.33462736	2.524903568	1.336228
PCGF5	751.8228392	297.794292	2.524638179	1.336077
RMI1	1028.984901	407.8003924	2.52325628	1.335287
FH	972.5566971	385.5769378	2.522341462	1.334764
NAA25	897.0235693	1406.555974	1.56802566	0.648949
ZNF519	152.9892959	239.8198681	1.567559788	0.64852
LINC00938	41.82441182	65.55629614	1.567417049	0.648389
STK35	310.3811614	486.2783486	1.566713477	0.647741
SHTN1	2344.368347	3672.812237	1.566653227	0.647686
COCH	466.6723845	731.0771759	1.566574754	0.647614
DDX1	1742.316945	2728.469642	1.566000749	0.647085
PROSER1	1785.241999	2795.685591	1.565998107	0.647082
ENSG000002	28.61670282	44.8106328	1.565890839	0.646984
GPR35	14.30835141	22.4053164	1.565890839	0.646984
FLJ42393	14.30835141	22.4053164	1.565890839	0.646984
TNFRSF11A	42.92505424	67.2159492	1.565890839	0.646984
POLR1C	187.1092108	292.9287663	1.565549687	0.646669
PKD2L2-DT	58.33404806	91.28091867	1.564796576	0.645975
PDPR	497.4903722	778.3772883	1.564607743	0.645801
CAPN2	967.4646839	1513.603597	1.56450527	0.645707
ZNF84	1165.580319	1823.128894	1.564138365	0.645368
MAK16	281.7644586	440.6378892	1.563851919	0.645104
GDPD5	89.15203572	139.4108576	1.563742841	0.645003
TIMM21	149.6873686	234.0110824	1.563332194	0.644624
MSI2	1397.815869	2184.103436	1.562511547	0.643867
CYB5R4	199.2162773	311.18495	1.562045803	0.643437
FAM104B	214.6252712	335.2499195	1.562024442	0.643417
MPV17L2	46.22698148	72.1949084	1.561748271	0.643162
SLCO1C1	15.40899383	24.06496947	1.561748271	0.643162
PINLYP	15.40899383	24.06496947	1.561748271	0.643162
ENSG000002	15.40899383	24.06496947	1.561748271	0.643162
ENSG000002	15.40899383	24.06496947	1.561748271	0.643162
NAA38	419.3447606	654.7331348	1.561324228	0.64277
EXTL3	297.1734524	463.8730322	1.560950443	0.642425
GTF3C5	516.2012932	805.7615639	1.560944489	0.642419
THAP3	47.3276239	73.85456147	1.560495867	0.642005
NCAM2	47.3276239	73.85456147	1.560495867	0.642005
SLC10A5	47.3276239	73.85456147	1.560495867	0.642005
TP53BP2	2059.301961	3213.088337	1.560280327	0.641805
EHHADH	320.2869431	499.5555731	1.559712576	0.64128
CCDC90B	288.3683131	449.7659811	1.559692798	0.641262
TFB1M	112.2655265	175.0933985	1.559636373	0.64121
PRXL2C	113.3661689	176.7530516	1.559134029	0.640745
NR1D2	827.6830971	1290.380259	1.559026956	0.640646
ZNF264	536.0128567	835.6353191	1.558983723	0.640606
RNASEH2C	81.44753881	126.9634596	1.558837277	0.64047
ZBTB6	358.8094277	559.3030835	1.558774771	0.640412
BNIP1	97.95717505	152.6880821	1.5587228	0.640364
NPIPA1	16.50963624	25.72462253	1.558158045	0.639842
MEX3C	577.8372686	900.3617887	1.558158045	0.639842
CEP72	166.1970049	258.9058784	1.557825176	0.639533
ARL15	100.1584599	156.0073883	1.557605703	0.63933
DLG1	3725.674579	5801.317295	1.55711863	0.638879
KAZN	253.1477557	394.1676033	1.557065368	0.63883
RNF44	608.6552562	947.6619011	1.556976452	0.638747
DPCD	84.74946605	131.9424188	1.556852508	0.638632
RPL36A	34.11991491	53.10889814	1.556536653	0.63834
SUDS3	620.7623228	965.9180848	1.556019187	0.63786
TBC1D1	698.9079343	1087.072759	1.555387634	0.637274
SPECC1L	35.22055732	54.7685512	1.555016597	0.63693
SLC3A2	353.3062156	549.3451651	1.554869801	0.636794
IFT81	424.8479727	660.5419206	1.554772443	0.636703
HSPA4	1479.263408	2299.449324	1.554455625	0.636409
ARHGAP5	5319.404798	8266.731925	1.554070848	0.636052
INPP4A	674.6938012	1048.070912	1.553402313	0.635432
OTUD4	1302.059978	2022.287262	1.553144475	0.635192
CCDC3	55.03212081	85.47213294	1.553131729	0.63518
NDUFB2	238.8394043	370.9324604	1.55306224	0.635116
HNRNPD	2469.841582	3833.798584	1.552244732	0.634356
FAM166B	18.71092108	29.04392867	1.552244732	0.634356
INSR	1894.205598	2939.245581	1.551703566	0.633853
PLVAP	266.3554647	413.2536136	1.551511676	0.633675
NPAT	994.9807443	1543.477352	1.55126354	0.633444
DGKZP1	78.14561156	121.1546739	1.550370794	0.632613
TCOF1	332.3940097	515.3222772	1.550335632	0.632581
DDHD1	685.7002254	1063.007789	1.55025148	0.632502
TDP2	613.0578259	950.1513807	1.54985605	0.632134
CHSY3	39.62312699	61.40716347	1.549780851	0.632064
WWOX	237.7387619	368.4429808	1.549780851	0.632064
FBXW11	1458.351202	2259.61765	1.549433119	0.63174
COPS7B	181.6059987	281.3111948	1.549019288	0.631355
RETREG2	526.107075	814.8896558	1.548904576	0.631248
IKBIP	204.7194894	316.9937357	1.548429691	0.630806
FASTKD3	188.2098532	291.2691132	1.547576327	0.630011
MREG	20.91220591	32.3632348	1.547576327	0.630011
ZFYVE19	105.661672	163.4758271	1.547162978	0.629625
PIP5K1A	633.9700318	980.8549624	1.547162978	0.629625
RANBP6	614.1584683	950.1513807	1.547078531	0.629546
SUGT1	298.2740948	461.3835526	1.546844197	0.629328
UBQLN4	538.2141416	832.316013	1.546440252	0.628951
DIPK1A	129.8758051	200.8180211	1.546231193	0.628756
PACC1	134.2783748	207.4566333	1.544974265	0.627583
ZNF773	67.13918739	103.7283167	1.544974265	0.627583
LGALS3BP	1375.80302	2125.185752	1.544687517	0.627315
AP2A1	654.8822377	1011.558544	1.5446419	0.627272
HAX1	363.2119974	560.9627366	1.54444991	0.627093
RHBDF1	479.8800935	741.0350943	1.544208865	0.626868
FBXL15	23.11349074	35.68254093	1.543797141	0.626483
TWIST1	23.11349074	35.68254093	1.543797141	0.626483
LSM7	278.4625313	429.8501443	1.543655235	0.626351
SUMF1	348.903646	538.5574202	1.543570629	0.626271
ABHD18	444.6595362	686.2665431	1.543352806	0.626068
LRRC42	305.9785917	472.1712975	1.543151417	0.62588
SENP1	406.1370516	626.5190327	1.542629588	0.625392
LAS1L	555.8244202	857.210809	1.542233083	0.625021

ENSG000002	108.9635992	103.339064	0.948381522	-0.076461
SVIL2P	36.32119974	34.44635467	0.948381522	-0.076461
SLC15A4	198.1156349	187.7881916	0.947871639	-0.077236
MBP	198.1156349	187.7881916	0.947871639	-0.077236
NAA25	897.0235693	850.0471396	0.947630774	-0.077603
NAV3	983.9743202	932.2739217	0.947457573	-0.077867
F13A1	1714.800885	1624.534533	0.947360447	-0.078015
ELP6	195.9143501	185.5658462	0.947178428	-0.078292
BOC	1032.402586	977.8320037	0.947142148	-0.078347
DCTN2	569.0321292	538.9187747	0.947079694	-0.078442
RBMXL1	231.1349074	218.9010281	0.947070395	-0.078456
AREG	17.61027866	16.66759097	0.946469462	-0.079372
HLX	17.61027866	16.66759097	0.946469462	-0.079372
SNX22	17.61027866	16.66759097	0.946469462	-0.079372
FEV	17.61027866	16.66759097	0.946469462	-0.079372
HNRNPKP2	17.61027866	16.66759097	0.946469462	-0.079372
AASS	1210.706658	1145.619086	0.946240015	-0.079722
ASTE1	245.4432588	232.2351009	0.946186512	-0.079804
KCNMA1	2570.000042	2431.245936	0.946010076	-0.080073
THRA	680.1970133	643.3690115	0.945856861	-0.080306
PAFAH1B1	1359.293384	1285.62685	0.945805273	-0.080385
SEC23B	1759.927224	1664.536752	0.945798627	-0.080395
RORB	609.7558986	576.6986476	0.945786091	-0.080414
ICA1L	365.4132822	345.5747195	0.945709246	-0.080531
BMPER	69.34047223	65.55919115	0.945467907	-0.0809
UGCG	675.7944436	638.9243206	0.945441808	-0.080939
OFD1	812.2741032	767.8203574	0.945272482	-0.081198
RPRD1A	702.2098616	663.3701207	0.944689269	-0.082088
LPCAT3	1044.509653	986.7213855	0.944674262	-0.082111
STAT3	3422.997915	3233.512648	0.944643476	-0.082158
ZBTB14	290.5695979	274.4596647	0.944557403	-0.08229
RARA	323.5888704	305.5725011	0.944323273	-0.082647
PLXNC1	680.1970133	642.2578388	0.944223256	-0.0828
STAP2	287.2676707	271.1261465	0.943810161	-0.083431
MRTFB	2565.597472	2421.245382	0.943735488	-0.083546
FTO	759.4432672	716.7064118	0.943726072	-0.08356
ABHD1	50.62955115	47.78042745	0.943726072	-0.08356
HNRNPKP4	50.62955115	47.78042745	0.943726072	-0.08356
PNMA1	808.972176	763.3756665	0.943636492	-0.083697
BUD23	353.3062156	333.3518194	0.943520959	-0.083874
PRKAB1	352.2055732	332.2406467	0.943314564	-0.084189
NOL10	803.4689639	757.8198028	0.943184911	-0.084387
IFT80	83.64882364	78.89326393	0.943148517	-0.084443
BTN2A2	183.8072835	173.3429461	0.943068973	-0.084565
BRD4	4942.985092	4660.258436	0.942802446	-0.084973
DHRS12	33.01927249	31.11283648	0.942262931	-0.085798
UPB1	16.50963624	15.55641824	0.942262931	-0.085798
CTLA4	16.50963624	15.55641824	0.942262931	-0.085798
C3orf33	16.50963624	15.55641824	0.942262931	-0.085798
TMEM51-AS	16.50963624	15.55641824	0.942262931	-0.085798
MTA2	957.5589022	902.2722579	0.942262931	-0.085798
ZNF19	99.05781747	93.33850944	0.942262931	-0.085798
PIK3C2G	49.52890873	46.66925472	0.942262931	-0.085798
ZNF396	49.52890873	46.66925472	0.942262931	-0.085798
NEK1	891.5203572	840.046585	0.942262931	-0.085798
SEMA6D	148.5867262	140.0077642	0.942262931	-0.085798
CINP	427.0492575	402.2445288	0.941916001	-0.08633
DOCK4	3594.698132	3385.743313	0.941871386	-0.086398
ACBD6	458.9678876	432.2461925	0.941778726	-0.08654
TNFRSF1A	719.8201403	677.8153662	0.941645459	-0.086744
MOSPD3	114.4668113	107.7837549	0.941615773	-0.08679
RALY	865.1049392	814.4896121	0.941492269	-0.086979
NBPF14	978.4711081	921.1621944	0.941430142	-0.087074
DNAJB6P1	81.44753881	76.67091847	0.941353411	-0.087192
RAD23B	2862.770925	2694.593874	0.941253752	-0.087344
YTHDC1	193.7130653	182.232328	0.940733284	-0.088142
TIAM1	370.9164943	348.9082377	0.940665198	-0.088247
RASSF1	128.7751627	121.1178277	0.940537175	-0.088443
NXT1	128.7751627	121.1178277	0.940537175	-0.088443
DZANK1	224.5310529	211.122819	0.940283387	-0.088832
FRYL	3586.993635	3372.40924	0.940177091	-0.088996
PRR14	560.2269899	526.6958747	0.940147269	-0.089041
C18orf54	31.91863007	30.00166375	0.939942087	-0.089356
CNPY2	31.91863007	30.00166375	0.939942087	-0.089356
SNX9	1227.216294	1153.397295	0.93984842	-0.0895
DPF2	697.8072919	655.5919115	0.93950281	-0.090031
CCDC126	79.24625397	74.44857301	0.939458577	-0.090099
CBLB	1568.415443	1473.415042	0.939429058	-0.090144
SRCAP	221.2291257	207.7893008	0.939249297	-0.09042
NRXN2	125.4732355	117.7843095	0.938720589	-0.091232
CCDC68	62.73661773	58.89215477	0.938720589	-0.091232
FGFR1	1568.415443	1472.303869	0.938720589	-0.091232
RPA1	922.3383449	865.6035578	0.938488097	-0.09159
ARMCX6	78.14561156	73.33740027	0.938471129	-0.091616
NWD1	983.9743202	923.3845398	0.938423413	-0.091689
RIT1	249.8458285	234.4574463	0.938408489	-0.091712
TRIAP1	93.55460539	87.78264578	0.938303843	-0.091873
SLC16A2	202.5182046	190.0105371	0.938239293	-0.091972
MIB1	979.5717505	918.9398489	0.938103665	-0.092181
SEC14L1	1631.152061	1530.084851	0.93803937	-0.09228
PDIA4	2763.713107	2592.365982	0.938001117	-0.092338
KLHL42	294.9721676	276.6820101	0.937993616	-0.09235
PRKX	155.1905807	145.5636278	0.9379669	-0.092391
ZNF83	2197.982905	2061.225417	0.937780459	-0.092678
NCOA7	495.2890873	464.4702017	0.937775965	-0.092685
SLC37A3	369.8158519	346.6858922	0.937455467	-0.093178
ST3GAL5	184.9079259	173.3429461	0.937455467	-0.093178
CYB5RL	30.81798766	28.89049102	0.937455467	-0.093178
NKAIN1	15.40899383	14.44524551	0.937455467	-0.093178
ADGRE3	15.40899383	14.44524551	0.937455467	-0.093178
GPR26	15.40899383	14.44524551	0.937455467	-0.093178
SPAST	1263.82581	501.1389019	2.521907211	1.334515
NPIPA9.1	44.8106328	17.7787637	2.520458315	1.333686
ENSG000002	44.8106328	17.7787637	2.520458315	1.333686
ADGRF5	470.5116444	186.6770189	2.520458315	1.333686
SPIN4	344.3780113	136.674246	2.519699369	1.333252
NAA15	1887.025537	750.0415937	2.515894522	1.331071
NAF1	516.9819303	205.5669553	2.514907756	1.330505
PI4K2B	312.8446031	124.4513459	2.513790436	1.329864
CEP57	854.7213294	340.0188558	2.513746855	1.329839
ZBTB33	1002.430452	398.9110106	2.512917482	1.329363
NT5C1A	30.70358173	12.22290005	2.511971923	1.32882
LIPE-AS1	92.1107452	36.66870014	2.511971923	1.32882
RESF1	3779.030033	1505.639051	2.509917653	1.32764
CENPO	565.9416958	225.5680645	2.508961971	1.327091
ZNF215	39.00184707	15.55641824	2.507122557	1.326033
CALU	1130.223738	451.136129	2.505283142	1.324974
NOMO3	47.3001124	18.88993643	2.503984731	1.324226
FAM83F	300.3972051	120.006655	2.503171221	1.323757
EFNB1	166.7951332	66.67036389	2.501788253	1.32296
TLK2	1263.82581	505.5835928	2.499736598	1.321776
RPP40	297.0778989	118.8954823	2.498647495	1.321147
NRBF2	224.8829905	90.00499125	2.498561329	1.321098
GAD1	169.2846128	67.78153662	2.497503321	1.320487
TXLNG	258.0760519	103.339064	2.497371679	1.320411
SCOC	629.8383388	252.23621	2.497017929	1.320206
VWDE	873.8073396	350.0194104	2.49645395	1.31988
MRPL58	235.6707355	94.44968217	2.49519882	1.319155
RAB5A	1536.008913	615.5896932	2.495182961	1.319146
R3HDM1	1879.557098	753.3751119	2.494848938	1.318952
ZNF670	130.2827657	52.22511838	2.494638017	1.31883
SMC6	1962.539751	786.7102939	2.494615574	1.318818
EMSY	2552.546417	1023.390086	2.494206708	1.318581
ZFYVE19	163.4758271	65.55919115	2.493560768	1.318207
GMCL1	598.3049306	240.01331	2.492798964	1.317767
DNM1L	3979.848054	1596.755215	2.492459719	1.31757
ZHX1	3175.746143	1274.515123	2.491728883	1.317147
MET	2538.439366	1018.945395	2.491241806	1.316865
TTF1	1295.359219	520.0288383	2.490937277	1.316689
SMARCE1	207.4566333	83.33795486	2.489341545	1.315764
GLS2	49.789592	20.00110917	2.489341545	1.315764
ART1	24.894796	10.00055458	2.489341545	1.315764
ENSG000002	24.894796	10.00055458	2.489341545	1.315764
CEACAM19	107.8774493	43.33573653	2.489341545	1.315764
CALY	16.59653067	6.667036389	2.489341545	1.315764
COX16	16.59653067	6.667036389	2.489341545	1.315764
DDO	16.59653067	6.667036389	2.489341545	1.315764
ENSG000002	16.59653067	6.667036389	2.489341545	1.315764
TNFSF13B	8.298265334	3.333518194	2.489341545	1.315764
IL10	8.298265334	3.333518194	2.489341545	1.315764
CDR2	8.298265334	3.333518194	2.489341545	1.315764
PLD4	8.298265334	3.333518194	2.489341545	1.315764
HOXD4	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
SLC44A3-AS	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
SNX25P1	8.298265334	3.333518194	2.489341545	1.315764
RPL12P12	8.298265334	3.333518194	2.489341545	1.315764
LINC02615	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
LINC02516	8.298265334	3.333518194	2.489341545	1.315764
ENSG000002	8.298265334	3.333518194	2.489341545	1.315764
TEKT4P2.1	8.298265334	3.333518194	2.489341545	1.315764
NFATC2IP	555.9837774	223.345719	2.489341545	1.315764
CNOT9	1363.404994	547.8081566	2.488836608	1.315472
MRTO4	292.9287663	117.7843095	2.48699311	1.314403
SAC3D1	176.7530516	71.11505481	2.485451949	1.313508
HEATR3	320.3130419	128.8960368	2.485049577	1.313275
CNOT6L	1637.24775	658.9254297	2.48472388	1.313086
SLC4A11	532.7486344	214.4563372	2.484182288	1.312771
HSPA5	15023.17956	6051.446695	2.482576534	1.311838
TENT4B	664.6910532	267.7926283	2.482111093	1.311568
PSMA4	1210.716912	487.8048291	2.481969919	1.311486
HLTF	4199.752085	1692.31607	2.481659401	1.311305
HNRNPA1P	77.1738676	31.11283648	2.48045104	1.310602
FANCE	214.9250721	86.67147305	2.479767155	1.310205
MTDH	2633.03959	1062.281131	2.478665499	1.309564
LFNG	250.6076131	101.1167186	2.478399385	1.309409
JADE1	495.4064404	200.0110917	2.476894838	1.308533
RRAGB	687.9261962	277.7931829	2.476396969	1.308243
ZNF664	2421.433824	977.8320037	2.476329078	1.308203
NHS	1194.120382	482.2489654	2.476149182	1.308098
DENND5B	1141.84131	461.1366835	2.476145036	1.308096
MTMR9	43.98080627	17.7787637	2.473783161	1.306719
SERBP1P1	43.98080627	17.7787637	2.473783161	1.306719
TDP1	563.4522162	227.7904099	2.473555477	1.306586
MRPL17	467.1923383	188.8993643	2.473234041	1.306399
XRN2	3819.691533	1544.530097	2.473044417	1.306288
HSD11B2	123.6441535	50.00277291	2.472745935	1.306114
TRAIP	79.6633472	32.22400921	2.472173673	1.30578
IFT25	700.3735942	283.3490465	2.471769723	1.305544
ZCCHC9	151.0284291	61.11450023	2.471237243	1.305234
NAA50	2119.376966	857.8253487	2.470639239	1.304884
ABRACL	107.0476228	43.33573653	2.470192764	1.304624
ERICH6-AS1	35.68254093	14.44524551	2.470192764	1.304624
ACVRL1	63.06681654	25.55697282	2.467695097	1.303164
ETAA1	531.9188079	215.5675099	2.467527728	1.303066
SLCO4A1	279.6515417	113.3396186	2.467376767	1.302978
PELI1	794.973819	322.2400921	2.467023311	1.302771
TCERG1	1436.429729	582.2545113	2.467013482	1.302766
GET3	292.7708827	451.4256342	1.541907549	0.624716
BOLA3	74.84368431	115.3458881	1.541157269	0.624014
ATG3	849.6959454	1309.46627	1.541099821	0.62396
C17orf80	400.6338395	617.3909408	1.541035429	0.6239
KAT6A	6274.762415	9667.479114	1.540692456	0.623579
CLIC4	1026.899374	1581.649373	1.54021846	0.623135
PEX2	540.4154264	832.316013	1.540141107	0.623063
PYGO2	334.5952946	515.3222772	1.540136056	0.623058
POLR1E	260.8522527	401.6360421	1.539707011	0.622656
UBE2Q1	616.3597531	948.4917276	1.538860581	0.621863
PHF10	1294.355482	1991.58368	1.538668247	0.621682
ZNF468	432.5524696	665.5208798	1.538589943	0.621609
ZNF891	407.237694	626.5190327	1.538460319	0.621487
PWP1	516.2012932	794.1439924	1.538438595	0.621467
ARHGEF40	465.5717421	716.1402983	1.53819537	0.621239
P3H3	55.03212081	84.6423064	1.53805278	0.621105
MEX3B	167.2976473	257.2462253	1.537655965	0.620733
TFAM	309.280519	475.4906036	1.537408839	0.620501
DYSF	171.7002169	263.8848376	1.536892861	0.620017
C1orf216	57.23340565	87.96161254	1.536892861	0.620017
PAK2	1174.385458	1804.87271	1.536865684	0.619991
DNAJC7	1099.541774	1689.526822	1.536573564	0.619717
RHOT1	762.7451945	1171.715065	1.536181511	0.619349
VPS29	1821.563199	2798.175071	1.536139439	0.619309
SEMA6B	59.43469048	91.28091867	1.535818862	0.619008
ATAD3B	149.6873686	229.8619497	1.535613538	0.618815
MICAL1	303.7773069	466.3625118	1.535211819	0.618438
DNTTIP2	1318.569615	2023.946915	1.534956435	0.618198
CTBS	188.2098532	288.7796336	1.534349178	0.617627
GMDS	611.9571835	938.5338092	1.533659273	0.616978
CBX4	548.1199233	840.6142783	1.533632044	0.616952
ZNF737	613.0578259	940.1934623	1.533613018	0.616934
NOP58	1089.635992	1670.440812	1.533026464	0.616383
MYL12B	1182.089955	1810.681496	1.531762865	0.615193
MRPS7	246.5439013	377.5710727	1.53145574	0.614904
CLPTM1L	35.22055732	53.93872467	1.53145574	0.614904
APTX	321.3875856	492.0871343	1.531132988	0.6146
EPHA4	675.7944436	1033.963861	1.529997576	0.613529
C19orf48P	188.2098532	287.9498071	1.529940129	0.613475
GAMT	113.3661689	173.4337455	1.529854516	0.613394
PHF6	909.1306359	1390.78927	1.529801345	0.613344
PDIA3	4287.002211	6558.119093	1.529768069	0.613313
LSM14B	872.8094361	1335.190892	1.52976221	0.613307
UQCC4	38.52248457	58.91768387	1.529436238	0.613
WDR4	118.869381	181.7320108	1.528837867	0.612435
DRG2	158.4925079	242.3093477	1.528837867	0.612435
RMC1	279.5631737	427.3606647	1.528672961	0.61228
B3GAT1	41.82441182	63.89664307	1.527735604	0.611395
ENSG000002	130.9764475	199.9881945	1.526901961	0.610607
PTPN2	528.3083598	806.5913904	1.526743568	0.610458
RAB32	44.02569665	67.2159492	1.526743568	0.610458
MRPL19	274.0599617	418.2325728	1.52606229	0.609814
PIK3CA	974.0685384	1486.219321	1.525785161	0.609552
POLR3F	278.4625313	424.8711851	1.525775059	0.609542
FAIM	233.3361923	355.9955828	1.525676662	0.609449
CAPZA1	849.6959454	1296.189045	1.525473968	0.609258
UBE3D	48.42826632	73.85456147	1.525030051	0.608838
ZSCAN32	198.1156349	302.0568581	1.52464927	0.608477
MTERF2	303.7773069	463.0432056	1.524285044	0.608133
GOT2	259.7516102	395.8272564	1.523868345	0.607738
CRYZL1	314.7837311	479.6397363	1.523711961	0.60759
PPP1R3E	55.03212081	83.81247987	1.522973831	0.606891
RNF2	525.0064326	799.1229516	1.522120306	0.606082
ISOC2	178.3040714	271.3532764	1.521856872	0.605833
ZNF10	239.9400468	365.1236747	1.52172878	0.605711
DIABLO	60.5353329	92.1107452	1.521603018	0.605592
HADHB	1096.239847	1667.951332	1.521520438	0.605514
FBXO36	61.63597531	93.77039827	1.521358229	0.60536
FLG-AS1	61.63597531	93.77039827	1.521358229	0.60536
MRPL48	249.8458285	380.0605523	1.5211803	0.605191
ZNF214	125.4732355	190.8601027	1.52112203	0.605136
CNBP	1147.97004	1745.955026	1.520906439	0.604931
LIN7B	63.83726015	97.0897044	1.520893976	0.60492
MAP2K7	263.0535375	399.9763891	1.520513249	0.604558
PRMT5	731.9272068	1112.797381	1.520366193	0.604419
STAU2	1514.483965	2301.938804	1.519949274	0.604023
CALR	6602.753855	10031.77296	1.519331658	0.603437
NDUFA10	835.387594	1268.80477	1.518821657	0.602952
MMADHC	315.8843735	479.6397363	1.518402861	0.602555
MORN2	315.8843735	479.6397363	1.518402861	0.602555
MAPK4	83.64882364	126.9634596	1.517815243	0.601996
CCNYL1	170.5995745	258.9058784	1.517623236	0.601814
C1GALT1	176.1027866	267.2041437	1.517319225	0.601525
SLC39A14	179.4047139	272.1831029	1.517145771	0.60136
PIGS	493.0878025	747.6737066	1.516309474	0.600564
ZNF19	99.05781747	150.1986025	1.516272076	0.600529
PAM	2566.698115	3891.056615	1.515977509	0.600248
PRRG4	106.7623144	161.816174	1.515667536	0.599953
ZNF668	106.7623144	161.816174	1.515667536	0.599953
BZW1	964.1627567	1461.324525	1.515640918	0.599928
SF3A3	752.8394127	1141.011483	1.515610719	0.599899
AURKAIP1	113.3661689	171.7740924	1.51521476	0.599522
AMZ2	910.2312783	1379.171698	1.515188207	0.599497
GPATCH3	124.372593	188.3706231	1.514566984	0.598905
GLB1L	127.6745203	193.3495823	1.514394429	0.598741
ZNF184	528.3083598	799.9527782	1.514177778	0.598535
STOX2	136.4796596	206.6268068	1.513975104	0.598341
ANO8	277.3618889	419.8922259	1.513878592	0.59825
RAB28	176.1027866	266.3743172	1.512607054	0.597037
TMED5	545.9186385	825.6774007	1.512455048	0.596892
ENTPD4	744.0342734	1125.244779	1.51235611	0.596798

C17orf97	15.40899383	14.44524551	0.937455467	-0.093178
ENSG000002	15.40899383	14.44524551	0.937455467	-0.093178
C17orf80	400.6338395	375.5763832	0.937455467	-0.093178
MOSPD1	77.04496914	72.22622754	0.937455467	-0.093178
ZKSCAN5	214.6252712	201.1222644	0.937085662	-0.093747
CLDN1	199.2162773	186.6770189	0.937057059	-0.093791
LANCL2	228.9336226	214.4563372	0.936762083	-0.094245
LIPT1	106.7623144	100.0055458	0.936712045	-0.094322
ASCC1	411.6402637	385.5769378	0.936684216	-0.094365
CAMKK2	1339.481821	1254.514014	0.936566659	-0.094546
DAAM2	243.241974	227.7904099	0.936476572	-0.094685
PCGF1	75.94432672	71.11505481	0.936410366	-0.094787
TRMT61B	364.3126398	341.1300286	0.936366163	-0.094855
CLASRP	453.4646755	424.4679834	0.936055235	-0.095334
EHBP1L1	1101.743059	1031.168295	0.935942629	-0.095508
SLFN13	90.25267814	84.44912759	0.935696639	-0.095887
ZC4H2	45.12633907	42.22456379	0.935696639	-0.095887
NCBP1	1037.905799	971.1649673	0.935696639	-0.095887
TNKS1BP1	2257.417596	2111.22819	0.935240424	-0.096591
TFIP11	431.4518272	403.3557015	0.93488004	-0.097147
SH2D3C	89.15203572	83.33795486	0.934784654	-0.097294
THOC3	208.0214167	194.455228	0.934784654	-0.097294
NRF1	341.1991491	318.9065739	0.934664037	-0.09748
INPP5J	192.6124229	180.0099825	0.934570989	-0.097624
MKNK2	1272.342633	1188.954823	0.934461199	-0.097793
GRB10	517.3019357	483.3601382	0.934386873	-0.097908
TACC3	103.4603871	96.67202764	0.934386873	-0.097908
ZNF569	177.203429	165.564737	0.934320165	-0.098011
MMP15	161.7944352	151.1194915	0.934021564	-0.098472
VDAC3	543.7173537	507.8059383	0.933952052	-0.09858
RBMX2	132.07709	123.3401732	0.933849869	-0.098737
LARGE1	322.488228	301.1278102	0.933763729	-0.098871
TTF1	556.9250626	520.0288383	0.93375011	-0.098892
RBIS	190.411138	177.787637	0.933703978	-0.098963
EPB41	1244.826573	1162.286677	0.933693659	-0.098979
PSMC1	511.7987236	477.8042745	0.93357848	-0.099157
MAP2K6	263.0535375	245.5691736	0.933533059	-0.099227
WTIP	175.0021442	163.3423915	0.933373658	-0.099473
ADGRG2	58.33404806	54.44746384	0.933373658	-0.099473
ITGBL1	334.5952946	312.2395375	0.93318568	-0.099764
POGK	538.2141416	502.2500746	0.933178889	-0.099774
CDC6	72.64239948	67.78153662	0.933085045	-0.09992
HSPB1	2596.41546	2422.356555	0.932961844	-0.10011
SLC6A9	101.2591023	94.44968217	0.932752513	-0.100434
CASP2	361.0107125	336.6853376	0.932618689	-0.100641
KDM3B	2089.019306	1947.885798	0.932440305	-0.100917
C9orf78	518.4025781	483.3601382	0.932403037	-0.100974
COL7A1	832.0856667	775.5985665	0.932113841	-0.101422
IWS1	1131.460404	1054.502922	0.931983937	-0.101623
SNN	28.61670282	26.66814555	0.931908393	-0.10174
CTC-338M12	85.85010847	80.00443666	0.931908393	-0.10174
TIGD4	42.92505424	40.00221833	0.931908393	-0.10174
PDCD6	42.92505424	40.00221833	0.931908393	-0.10174
ZFP30	256.449683	238.9021373	0.931575093	-0.102256
ZNF550	227.8329802	212.2339917	0.931533229	-0.102321
PKN2	1616.84371	1505.639051	0.931221145	-0.102804
DPCD	84.74946605	78.89326393	0.930899835	-0.103302
HEPH	323.5888704	301.1278102	0.930587662	-0.103786
CDKL5	716.518213	666.7036389	0.930476891	-0.103958
ZNF670	56.13276323	52.22511838	0.930385667	-0.104099
ZSCAN29	266.3554647	247.7915191	0.930303868	-0.104226
PIP4K2C	489.7858753	455.5808199	0.930163247	-0.104444
TAF6	713.2162858	663.3701207	0.930110731	-0.104526
RPL32	3355.858727	3121.284203	0.9301	-0.104542
NDUFS5	405.0364092	376.687556	0.930009124	-0.104683
AIMP2	265.2548223	246.6803464	0.929974974	-0.104736
C4A	83.64882364	77.7820912	0.929864735	-0.104907
ADK	346.7023611	322.2400921	0.929443027	-0.105562
RUSC1-AS1	124.372593	115.5619641	0.929159401	-0.106002
SAT1	1022.496805	950.0526854	0.929149784	-0.106017
PATJ	6557.627516	6092.560086	0.929079926	-0.106125
CARF	386.3254881	358.9087923	0.929032133	-0.1062
ACAA1	372.0171367	345.5747195	0.928921508	-0.106371
FAM151B	27.51606041	25.55697282	0.928802032	-0.106557
ZNF672	233.3361923	216.6786826	0.928611548	-0.106853
EPM2A	163.99572	152.2306642	0.928259983	-0.107399
SEC22A	177.203429	164.4535643	0.92804956	-0.107726
MRPL3	924.5396297	857.8253487	0.927840539	-0.108051
RAB40AL	40.7237694	37.77987287	0.927710608	-0.108253
CHIC1	135.3790172	125.5625187	0.927488774	-0.108598
DHFR2	94.6552478	87.78264578	0.927393333	-0.108747
PRUNE1	378.6209912	351.1305831	0.927393333	-0.108747
RNF170	283.9657434	263.3479374	0.927393333	-0.108747
CHM	716.518213	664.4812934	0.927375301	-0.108775
TLR5	499.691657	463.359029	0.927289905	-0.108908
EIF4A2	3832.436894	3553.530395	0.927224764	-0.109009
FAM106C	161.7944352	150.0083187	0.927153759	-0.109119
ZNF3	402.8351244	373.3540378	0.926815998	-0.109645
KIFBP	550.3212081	510.0282837	0.926782897	-0.109697
VCL	2603.019315	2412.356	0.926753016	-0.109743
VPS72	600.9507593	556.6975385	0.92636132	-0.110353
RAB3D	747.3362007	692.2606117	0.926304133	-0.110442
NUDT4	346.7023611	321.1289194	0.926238051	-0.110545
MEAK7	146.3854414	135.5630732	0.926069368	-0.110808
PDGFB	79.24625397	73.33740027	0.925436807	-0.111794
DNAAF1	79.24625397	73.33740027	0.925436807	-0.111794
LRRC69	52.83083598	48.89160018	0.925436807	-0.111794
MRPL3P1	26.41541799	24.44580009	0.925436807	-0.111794
RUNDC3A	13.207709	12.22290005	0.925436807	-0.111794
RNF17	13.207709	12.22290005	0.925436807	-0.111794
EPHX4	13.207709	12.22290005	0.925436807	-0.111794
PERP	2323.514293	942.2744763	2.465857191	1.302089
SRBD1	1465.473658	594.4774113	2.465146076	1.301673
CSMD2	604.9435428	245.5691736	2.463434371	1.300671
SAAL1	314.5042561	127.7848641	2.461201163	1.299363
BBS7	686.2665431	278.9043556	2.460580229	1.298999
ANP32A	1633.928444	664.4812934	2.458953262	1.298044
SPINDOC	467.1923383	190.0105371	2.458770684	1.297937
BRDT	65.55629614	26.66814555	2.458224776	1.297617
FBXO11	5300.931895	2156.786272	2.457791931	1.297363
FIP1L1	698.7139411	284.4602192	2.456279978	1.296475
NMRAL1	19.08601027	7.77820912	2.453779523	1.295006
CDCA7L	19.08601027	7.77820912	2.453779523	1.295006
GNAT3	19.08601027	7.77820912	2.453779523	1.295006
DIRC3	19.08601027	7.77820912	2.453779523	1.295006
ENSG000002	19.08601027	7.77820912	2.453779523	1.295006
RPL35P1	19.08601027	7.77820912	2.453779523	1.295006
H3C12	57.2580308	23.33462736	2.453779523	1.295006
SMAD1	662.2015736	270.0149737	2.452462411	1.294231
ALDH1A1	326.9516541	133.3407278	2.452001422	1.29396
KCMF1	1765.041036	720.03993	2.451309939	1.293553
CDC27	1491.19828	608.9226568	2.448912458	1.292141
MRPS9	312.8446031	127.7848641	2.448213294	1.291729
BTF3L4	266.3743172	108.8949277	2.44615909	1.290518
PNN	1812.341149	741.1522119	2.44530222	1.290013
CHD1	2090.333038	855.6030032	2.443110917	1.288719
CDIN1	230.6917763	94.44968217	2.442483352	1.288349
GOSR1	863.0195947	353.3529286	2.442372837	1.288283
TFEB	233.1812559	95.5608549	2.440133631	1.28696
HNRNPUL1	6032.838898	2472.359327	2.440114117	1.286949
GNA13	1298.678525	532.2517384	2.439970471	1.286864
MB	40.66150013	16.66759097	2.439554715	1.286618
PAICS	2842.155877	1165.620195	2.438320723	1.285888
ZNF431	604.1137163	247.7915191	2.437991899	1.285693
B3GNT7	235.6707355	96.67202764	2.437837927	1.285602
NEK6	1253.867892	514.4729747	2.437189034	1.285218
TPI1	1561.733536	641.146666	2.435844431	1.284422
IDH2	1479.580709	607.8114841	2.434275672	1.283493
NT5DC2	1143.500963	470.0260654	2.432845851	1.282645
CNOT6	2283.68262	938.9409581	2.432189799	1.282256
SVBP	264.7146641	108.8949277	2.430918223	1.281501
MTREX	1652.184628	680.0377116	2.429548538	1.280688
C1GALT1	267.2041437	110.0061004	2.428993872	1.280359
COMP	86.30195947	35.55752741	2.427108007	1.279238
TMEM199	43.15097974	17.7787637	2.427108007	1.279238
ENSG000002	43.15097974	17.7787637	2.427108007	1.279238
SNHG20	21.57548987	8.889381852	2.427108007	1.279238
ENSG000002	21.57548987	8.889381852	2.427108007	1.279238
KCNN4	10.78774493	4.444690926	2.427108007	1.279238
SYT9-AS1	10.78774493	4.444690926	2.427108007	1.279238
TUBB3	10.78774493	4.444690926	2.427108007	1.279238
FERMT1	107.8774493	44.44690926	2.427108007	1.279238
C22orf46P	75.51421454	31.11283648	2.427108007	1.279238
HBEGF	53.93872467	22.22345463	2.427108007	1.279238
ENSG000002	32.3632348	13.33407278	2.427108007	1.279238
SLC6A6	423.211532	174.4541188	2.425918831	1.278531
ENSG000002	196.6688884	81.11560939	2.424550464	1.277717
AMZ2	1379.171698	568.9204385	2.42419081	1.277503
NOP56	1456.345566	601.1444477	2.42262167	1.276569
PTPN12	2683.659009	1107.839213	2.422426447	1.276453
ZNF639	618.2207674	255.5697282	2.418990589	1.274405
UTP3	338.5692256	140.0077642	2.418217501	1.273944
FGFR1OP2	604.1137163	250.0138646	2.41632086	1.272812
BOLA3	115.3458881	47.78042745	2.414082382	1.271475
PRKRA	1282.081994	531.1405656	2.413828047	1.271323
PPM1G	2844.645356	1178.954268	2.412854708	1.270741
DDX1	2728.469642	1131.173841	2.412069254	1.270271
HAUS8	222.3935109	92.22733671	2.411362172	1.269848
CPNE2	506.1941854	210.0116462	2.41031483	1.269222
LRFN4	117.8353677	48.89160018	2.410135224	1.269114
TEDC1	58.91768387	24.44580009	2.410135224	1.269114
PXMP4	259.7357049	107.7837549	2.409785269	1.268905
C11orf58	1287.89078	534.4740838	2.409641213	1.268818
CACNA1B	741.0350943	307.7948466	2.407561733	1.267573
CEP128	994.9620135	413.3562561	2.407032672	1.267256
SETD9	24.06496947	10.00055458	2.406363494	1.266855
WIF1	24.06496947	10.00055458	2.406363494	1.266855
RPL5P34	24.06496947	10.00055458	2.406363494	1.266855
DPP3-DT	24.06496947	10.00055458	2.406363494	1.266855
RPL22P1	350.1867971	145.5636278	2.405730074	1.266475
UBXN2B	668.0103594	277.7931829	2.404703933	1.265859
LUM	609.0926755	253.3473828	2.404179861	1.265545
ME2	892.0635234	371.1316923	2.403630684	1.265215
ODAD2	293.7585928	122.2290005	2.40334611	1.265044
CNTLN	502.0450527	208.9004735	2.403273886	1.265001
SORT1	2539.269192	1056.725268	2.402960609	1.264813
PPM1L	504.5345323	210.0116462	2.402412158	1.264484
KRR1	1564.223015	651.1472206	2.402257072	1.264391
NEK10	186.71097	77.7820912	2.40043649	1.263297
PKM	5073.559425	2114.561708	2.39934328	1.26264
EXOSC8	226.5426436	94.44968217	2.398553795	1.262165
TMEM106C	730.2473494	304.4613284	2.398489664	1.262126
COIL	658.052441	274.4596647	2.397628962	1.261608
RIC8B	647.264696	270.0149737	2.39714371	1.261316
UBE2G2	711.1613391	296.6831193	2.397040117	1.261254
HBS1L	3285.283246	1371.187151	2.395940805	1.260592
GATAD2B	103.7283167	43.33573653	2.39359764	1.259181
KLHL23	1855.492129	775.5985665	2.392335686	1.25842
SRP72	1975.816976	826.7125122	2.389968637	1.256992
ATOH8	106.2177963	44.44690926	2.389767884	1.25687
LYPD6	53.10889814	22.22345463	2.389767884	1.25687
RIMBP3	26.55444907	11.11172731	2.389767884	1.25687
ZNF33B	943.2505508	1426.471811	1.512293642	0.596738
GNL2	1141.366186	1726.039189	1.512257163	0.596703
TMEM47	394.029985	595.815451	1.512106879	0.59656
ATG4C	203.618847	307.8656439	1.511970274	0.59643
RNF34	408.3383364	617.3909408	1.511959289	0.596419
ZNF266	499.691657	755.1421454	1.511216237	0.59571
TRIM13	265.2548223	400.8062156	1.511023295	0.595526
ACBD5	775.9529035	1170.885239	1.508964311	0.593559
REV1	1658.668121	2502.756825	1.508895476	0.593493
SMAD2	935.5460539	1411.534933	1.508781879	0.593384
BEND5	33.01927249	49.789592	1.507894882	0.592536
DDX28	75.94432672	114.5160616	1.507894882	0.592536
SUZ12P1	63.83726015	96.25987787	1.507894882	0.592536
BABAM1	45.12633907	68.04577574	1.507894882	0.592536
TMEM182	45.12633907	68.04577574	1.507894882	0.592536
RASSF8-AS1	25.31477557	38.17202053	1.507894882	0.592536
NACAD	68.23982981	102.8984901	1.507894882	0.592536
SLC6A12	7.704496914	11.61757147	1.507894882	0.592536
PAOX	7.704496914	11.61757147	1.507894882	0.592536
PNPLA1	7.704496914	11.61757147	1.507894882	0.592536
PITX1-AS1	7.704496914	11.61757147	1.507894882	0.592536
CDRT4	7.704496914	11.61757147	1.507894882	0.592536
LINC02482	7.704496914	11.61757147	1.507894882	0.592536
COX6CP1	7.704496914	11.61757147	1.507894882	0.592536
ENSG000002	7.704496914	11.61757147	1.507894882	0.592536
ENSG000002	7.704496914	11.61757147	1.507894882	0.592536
PRKX	155.1905807	234.0110824	1.507894882	0.592536
MATCAP1	83.64882364	126.1336331	1.507894882	0.592536
THPO	41.82441182	63.06681654	1.507894882	0.592536
RAD50	23.11349074	34.8527144	1.507894882	0.592536
USP6	18.71092108	28.21410213	1.507894882	0.592536
NPM2	18.71092108	28.21410213	1.507894882	0.592536
SFT2D3	12.10706658	18.25618373	1.507894882	0.592536
ZNF528-AS1	12.10706658	18.25618373	1.507894882	0.592536
FRG1EP	12.10706658	18.25618373	1.507894882	0.592536
USP5	780.3554732	1176.694024	1.507894882	0.592536
FGFR1OP2	400.6338395	604.1137163	1.507894882	0.592536
ATP6V1D	313.6830886	473.001124	1.507894882	0.592536
ZNF136	169.4989321	255.5865723	1.507894882	0.592536
SMYD5	84.74946605	127.7932861	1.507894882	0.592536
RADX	40.7237694	61.40716347	1.507894882	0.592536
ABCF2	14.30835141	21.57548987	1.507894882	0.592536
RPL32P18	14.30835141	21.57548987	1.507894882	0.592536
ENSG000002	14.30835141	21.57548987	1.507894882	0.592536
USP6NL	1142.466828	1722.719883	1.507894882	0.592536
PAIP2B	156.2912231	235.6707355	1.507894882	0.592536
SIRT7	86.95075089	131.1125923	1.507894882	0.592536
CXorf38	64.93790256	97.91953094	1.507894882	0.592536
BCL2L12	44.02569665	66.38612267	1.507894882	0.592536
TBX19	44.02569665	66.38612267	1.507894882	0.592536
GPR143	38.52248457	58.08785734	1.507894882	0.592536
ENSG000002	35.22055732	53.10889814	1.507894882	0.592536
FCGBP	30.81798766	46.47028587	1.507894882	0.592536
ENSG000002	22.01284833	33.19306133	1.507894882	0.592536
TRAT1	19.81156349	29.8737552	1.507894882	0.592536
FKBP1C	19.81156349	29.8737552	1.507894882	0.592536
ENSG000002	17.61027866	26.55444907	1.507894882	0.592536
ANKRD10-IT	17.61027866	26.55444907	1.507894882	0.592536
BRCC3P1	17.61027866	26.55444907	1.507894882	0.592536
ENSG000002	17.61027866	26.55444907	1.507894882	0.592536
ROM1	11.00642416	16.59653067	1.507894882	0.592536
ARSL	11.00642416	16.59653067	1.507894882	0.592536
NUTM2A	11.00642416	16.59653067	1.507894882	0.592536
SMIM11	11.00642416	16.59653067	1.507894882	0.592536
FBXW11P1	11.00642416	16.59653067	1.507894882	0.592536
LINC01011	11.00642416	16.59653067	1.507894882	0.592536
ENSG000002	11.00642416	16.59653067	1.507894882	0.592536
TUBB4A	9.905781747	14.9368776	1.507894882	0.592536
PRSS53	9.905781747	14.9368776	1.507894882	0.592536
TCHH	9.905781747	14.9368776	1.507894882	0.592536
VMO1	9.905781747	14.9368776	1.507894882	0.592536
ENSG000002	9.905781747	14.9368776	1.507894882	0.592536
RPAP3-DT	9.905781747	14.9368776	1.507894882	0.592536
ENSG000001	8.80513933	13.27722453	1.507894882	0.592536
POPDC3	8.80513933	13.27722453	1.507894882	0.592536
ARHGAP5-A	8.80513933	13.27722453	1.507894882	0.592536
ENSG000002	8.80513933	13.27722453	1.507894882	0.592536
PAXIP1-DT	8.80513933	13.27722453	1.507894882	0.592536
EFNA3	6.603854498	9.9579184	1.507894882	0.592536
ADGRF3	6.603854498	9.9579184	1.507894882	0.592536
CYCSP34	6.603854498	9.9579184	1.507894882	0.592536
OR6A2	6.603854498	9.9579184	1.507894882	0.592536
SMIM10L2B	6.603854498	9.9579184	1.507894882	0.592536
STARD7-AS1	6.603854498	9.9579184	1.507894882	0.592536
TXN2P1	6.603854498	9.9579184	1.507894882	0.592536
ENSG000002	6.603854498	9.9579184	1.507894882	0.592536
PPP1R2B	6.603854498	9.9579184	1.507894882	0.592536
NEPRO-AS1	6.603854498	9.9579184	1.507894882	0.592536
ENSG000002	6.603854498	9.9579184	1.507894882	0.592536
ZNF778-DT	6.603854498	9.9579184	1.507894882	0.592536
ENSG000002	6.603854498	9.9579184	1.507894882	0.592536
ASB9	5.503212081	8.298265334	1.507894882	0.592536
ZNF20	5.503212081	8.298265334	1.507894882	0.592536
REN	5.503212081	8.298265334	1.507894882	0.592536
PTGDR2	5.503212081	8.298265334	1.507894882	0.592536
GFRAL	5.503212081	8.298265334	1.507894882	0.592536
ACCSL	5.503212081	8.298265334	1.507894882	0.592536
ENSG000002	5.503212081	8.298265334	1.507894882	0.592536
ENSG000002	5.503212081	8.298265334	1.507894882	0.592536
LINC02615	5.503212081	8.298265334	1.507894882	0.592536
ENSG000002	5.503212081	8.298265334	1.507894882	0.592536

ZCCHC12	13.207709	12.22290005	0.925436807	-0.111794
HIGD1A	13.207709	12.22290005	0.925436807	-0.111794
TRAV8-2	13.207709	12.22290005	0.925436807	-0.111794
MKRN2OS	13.207709	12.22290005	0.925436807	-0.111794
C8orf89	13.207709	12.22290005	0.925436807	-0.111794
TMEM230	551.4218506	510.0282837	0.924933031	-0.112579
PCDH1	1034.603871	956.7197218	0.924720802	-0.11291
NELFCD	782.556758	723.3734482	0.924371863	-0.113455
ACLY	5855.417655	5412.522375	0.924361454	-0.113471
DLG2	325.7901552	301.1278102	0.924299907	-0.113567
ALB	78.14561156	72.22622754	0.924251869	-0.113642
FMO1	51.73019357	47.78042745	0.923646794	-0.114587
MTMR1	501.8929418	463.359029	0.923222844	-0.115249
FMO3	38.52248457	35.55752741	0.923033075	-0.115546
GLT8D2	140.8822293	130.0072096	0.922807726	-0.115898
EVC2	243.241974	224.4568918	0.922772037	-0.115954
STYXL1	293.8715252	271.1261465	0.922600944	-0.116221
MLXIPL	63.83726015	58.89215477	0.922535752	-0.116323
SPATA5L1	127.6745203	117.7843095	0.922535752	-0.116323
GYPC	178.3040714	164.4535643	0.922320859	-0.116659
RNF152	89.15203572	82.22678213	0.922320859	-0.116659
SSR1	1627.850134	1501.19436	0.922194451	-0.116857
IFFO2	254.2483982	234.4574463	0.922158991	-0.116913
TAMM41	139.7815869	128.8960368	0.922124578	-0.116966
ZNF283	202.5182046	186.6770189	0.921778954	-0.117507
BAK1P1	25.31477557	23.33462736	0.921778954	-0.117507
ENSG000002	25.31477557	23.33462736	0.921778954	-0.117507
GARIN1A	75.94432672	70.00388208	0.921778954	-0.117507
KCNMB3	126.5738779	116.6731368	0.921778954	-0.117507
ERP29	821.0792426	756.7086301	0.921602436	-0.117784
ENTPD4	744.0342734	685.5935753	0.921454293	-0.118015
TXNDC11	1081.931495	996.7219401	0.921243114	-0.118346
KIFC3	176.1027866	162.2312188	0.921230276	-0.118366
BPNT2	1054.415435	971.1649673	0.921045857	-0.118655
MYO5A	1241.524646	1143.396741	0.920961774	-0.118787
UEVLD	300.4753796	276.6820101	0.920814246	-0.119018
ZKSCAN8	611.9571835	563.3645748	0.920594757	-0.119362
POLG	398.4325547	366.6870014	0.920323897	-0.119786
SIAE	361.0107125	332.2406467	0.920306892	-0.119813
DNPH1	161.7944352	148.897146	0.920285953	-0.119846
RIMKLA	86.95075089	80.00443666	0.920112085	-0.120118
UPRT	223.4304105	205.5669553	0.920049132	-0.120217
OST4	730.8265644	672.2595025	0.919861887	-0.120511
RUFY2	643.8758135	592.2550659	0.919828099	-0.120564
KCTD5	148.5867262	136.674246	0.919828099	-0.120564
MGAT4A	804.5696063	740.0410391	0.919797409	-0.120612
FUBP1	3164.346947	2910.161384	0.919672031	-0.120809
UBXN7	1050.012865	965.6091036	0.91961645	-0.120896
ZNF565	172.8008594	158.8977006	0.919542305	-0.121012
MRPS7	246.5439013	226.6792372	0.919427477	-0.121192
NPIPB12	431.4518272	396.6886651	0.919427477	-0.121192
RNF8	197.0149925	181.1211552	0.919326762	-0.12135
TNKS	197.0149925	181.1211552	0.919326762	-0.12135
ZNF77	135.3790172	124.4513459	0.919280908	-0.121422
MARCHF9	85.85010847	78.89326393	0.918965221	-0.121918
NRBF2	97.95717505	90.00499125	0.918819792	-0.122146
KIAA0753	979.5717505	900.0499125	0.918819792	-0.122146
UBR2	2785.725956	2557.919628	0.918223712	-0.123082
M6PR	778.1541883	714.4840663	0.918178013	-0.123154
PKNOX2	133.1777324	122.2290005	0.917788569	-0.123766
AFG1L	72.64239948	66.67036389	0.917788569	-0.123766
DUS2	72.64239948	66.67036389	0.917788569	-0.123766
RRH	36.32119974	33.33518194	0.917788569	-0.123766
DCBLD2	774.8522611	711.1505481	0.917788569	-0.123766
FOXD4	24.21413316	22.22345463	0.917788569	-0.123766
H3P16	24.21413316	22.22345463	0.917788569	-0.123766
CDH8	12.10706658	11.11172731	0.917788569	-0.123766
TMPRSS11A	12.10706658	11.11172731	0.917788569	-0.123766
BAG6	12.10706658	11.11172731	0.917788569	-0.123766
MRPL37	859.6017271	788.9326393	0.917788569	-0.123766
RAB27B	242.1413316	222.2345463	0.917788569	-0.123766
FNDC3A	2043.892967	1875.659571	0.917689723	-0.123922
MAT2B	749.5374855	687.8159208	0.917653799	-0.123978
MGAT5	580.0385534	532.2517384	0.917614416	-0.12404
DCTN1	1265.738779	1161.175504	0.917389531	-0.124394
ZNF875	1081.931495	992.2772492	0.917135007	-0.124794
BBS9	888.21843	814.4896121	0.91699247	-0.125018
BARD1	611.9571835	561.1422294	0.91696322	-0.125064
SRSF7	1067.623144	978.9431764	0.916937013	-0.125105
TMEM14B	215.7259136	197.7887462	0.91685205	-0.125239
MAP3K9	527.2077174	483.3601382	0.916830544	-0.125273
STX6	299.3747372	274.4596647	0.916776303	-0.125358
MACROH2A	1089.635992	998.9442856	0.916768804	-0.12537
HDDC2	191.5117804	175.5652916	0.91673364	-0.125425
CEP41	95.75589022	87.78264578	0.91673364	-0.125425
SEC23IP	2138.548215	1960.108698	0.916560443	-0.125698
ZDHHC9	488.6852328	447.8026108	0.916341605	-0.126043
FAM83F	130.9764475	120.006655	0.916246068	-0.126193
DPEP2	59.43469048	54.44746384	0.916088961	-0.12644
BOK	106.7623144	97.78320037	0.915896222	-0.126744
ACTR8	414.9421909	380.0210742	0.915841007	-0.126831
TTC39B	343.4004339	314.461883	0.915729428	-0.127007
TM6SF1	94.6552478	86.67147305	0.915654177	-0.127125
PRTFDC1	47.3276239	43.33573653	0.915654177	-0.127125
WDR27	425.9486151	390.0216287	0.915654177	-0.127125
THRAP3	2691.070708	2463.469946	0.915423715	-0.127488
INPP5F	495.2890873	453.3584744	0.915341133	-0.127619
VTI1A	318.0856583	291.1272556	0.915247978	-0.127765
GCC1	235.5374771	215.5675099	0.91521533	-0.127817
BRCC3	376.4197064	344.4635467	0.915104977	-0.127991
DNAJB1	1044.509653	955.608549	0.914887236	-0.128334
C10orf143	13.27722453	5.555863657	2.389767884	1.25687
FBXO38-DT	13.27722453	5.555863657	2.389767884	1.25687
SCLY	39.8316736	16.66759097	2.389767884	1.25687
S1PR1	119.4950208	50.00277291	2.389767884	1.25687
ZNF480	679.6279308	284.4602192	2.389184444	1.256518
NHLRC3	321.1428684	134.4519005	2.388533499	1.256125
ZNF195	857.210809	358.9087923	2.388380634	1.256033
GTPBP4	1408.215627	590.0327204	2.386673787	1.255001
RABIF	243.9690008	102.2278913	2.386520916	1.254909
CLEC2D	217.4145517	91.11616398	2.386124945	1.25467
RORA	1052.220044	441.1355744	2.385253209	1.254142
RPF2	233.1812559	97.78320037	2.384676049	1.253793
MED4	487.1081751	204.4557826	2.382462207	1.252453
TMX3	320.3130419	134.4519005	2.382361578	1.252392
RIC3	182.5618373	76.67091847	2.381109304	1.251634
DNAJA1	3150.021521	1323.406723	2.380236903	1.251105
RBFA	185.0513169	77.7820912	2.379099277	1.250415
OSBPL11	1540.158046	647.8137024	2.377470622	1.249428
NPPC	29.04392867	12.22290005	2.376189657	1.24865
DLK2	29.04392867	12.22290005	2.376189657	1.24865
ELMOD2	580.8785734	244.4580009	2.376189657	1.24865
VEGFA	570.0908284	240.01331	2.375246725	1.248077
PTER	131.9424188	55.55863657	2.374831834	1.247825
CCDC40	73.85456147	31.11283648	2.373764974	1.247177
FAM24B	73.85456147	31.11283648	2.373764974	1.247177
SEPHS1	1244.7398	524.4735292	2.373312914	1.246902
ERP29	1795.744618	756.7086301	2.373099165	1.246772
SPARC	3675.301716	1548.974788	2.372731787	1.246549
POGK	1191.630902	502.2500746	2.372584818	1.24646
TMEM11	358.4850624	151.1194915	2.372196061	1.246223
RAPH1	5128.327976	2162.342135	2.371654278	1.245894
DLAT	903.6810948	381.1322469	2.37104339	1.245522
ZRANB1	2160.038466	911.1616398	2.370642455	1.245278
RPL13AP5	60.57733694	25.55697282	2.37028608	1.245061
RIDA	318.6533888	134.4519005	2.370017736	1.244898
ATP5F1C	1836.406118	775.5985665	2.367727582	1.243503
ZNF180	867.9985539	366.6870014	2.367137506	1.243144
ENSA	872.9775131	368.9093468	2.366374072	1.242678
ZNF33A	2706.894152	1144.507913	2.365116152	1.241911
TNR	94.6002248	40.00221833	2.364874468	1.241764
CCRL2	15.76670413	6.667036389	2.364874468	1.241764
CHRNA1	15.76670413	6.667036389	2.364874468	1.241764
RPL5P4	15.76670413	6.667036389	2.364874468	1.241764
FAM13A	1470.452617	622.2567296	2.363096367	1.240678
ACOT13	160.1565209	67.78153662	2.362834024	1.240518
U2SURP	3007.291357	1273.40395	2.361616168	1.239775
PANK3	3159.149613	1337.851969	2.361359617	1.239618
ZNF256	632.3278184	267.7926283	2.361259242	1.239556
FEM1C	1185.822116	502.2500746	2.361019293	1.23941
GPAT4	1267.145116	536.6964293	2.361009031	1.239404
CLEC2B	81.32300027	34.44635467	2.360859401	1.239312
DYRK1A	3335.902664	1413.411714	2.360177597	1.238895
BPNT2	2290.321232	971.1649673	2.358323569	1.237762
ZNF260	1032.304208	437.8020562	2.35792453	1.237518
PUM3	1535.179087	651.1472206	2.357652829	1.237351
RPGRIP1L	809.08087	343.352374	2.356415541	1.236594
HNRNPA1	3486.931093	1480.082078	2.355903868	1.236281
TSPAN2	34.02288787	14.44524551	2.355300078	1.235911
NAA20	1077.944667	457.8031654	2.354602913	1.235484
SRP9	1404.896321	596.6997568	2.354444266	1.235387
STC1	120.3248473	51.11394565	2.354051244	1.235146
HTATSF1	1998.222292	848.9359668	2.353796247	1.234989
UQCRFS1	1487.049148	632.2572842	2.351968392	1.233869
UBE2G1	898.7021356	382.2434196	2.351125198	1.233351
KLK1	70.53525534	30.00166375	2.351044793	1.233302
CRY1	926.0864112	394.4663197	2.347694505	1.231245
IBTK	73.02473494	31.11283648	2.347093457	1.230875
RPL7P23	36.51236747	15.55641824	2.347093457	1.230875
ENSG000002	36.51236747	15.55641824	2.347093457	1.230875
TMEM17	18.25618373	7.77820912	2.347093457	1.230875
PRC1	18.25618373	7.77820912	2.347093457	1.230875
ENSG000002	18.25618373	7.77820912	2.347093457	1.230875
FRG1EP	18.25618373	7.77820912	2.347093457	1.230875
GTF3A	742.6947474	316.6842285	2.345221772	1.229724
DNTTIP2	2023.946915	863.3812123	2.34421005	1.229102
TBC1D24	151.0284291	64.44801842	2.343414627	1.228612
DPH5	283.8006744	121.1178277	2.343178372	1.228467
CENPC	1403.236668	598.9221022	2.342936857	1.228318
EIF3H	4725.032281	2016.778508	2.342861283	1.228272
TAF3	554.3241243	236.6797918	2.342084722	1.227793
GPR161	421.551879	180.0099825	2.341825009	1.227633
CPOX	210.7759395	90.00499125	2.341825009	1.227633
FRYL	7895.799465	3372.40924	2.341293391	1.227306
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TLNRD1	213.2654191	91.11616398	2.340588209	1.226871
SLC25A4	681.2875839	291.1272556	2.340171079	1.226614
RAP1B	1159.267667	495.5830382	2.339199645	1.226015
MRPS22	610.7523286	261.1255919	2.338921758	1.225844
POLR3B	932.7250235	398.9110106	2.338178187	1.225385
FKBP7	277.9918887	118.8954823	2.338119863	1.225349
KCNJ2	59.7475104	25.55697282	2.337816408	1.225162
BRWD3	4543.30027	1943.441107	2.337760714	1.225127
KALRN	5722.483774	2447.913527	2.337698497	1.225089
CDK18	459.7238995	196.6775735	2.337449519	1.224935
NDRG4	80.49317374	34.44635467	2.336768999	1.224515
FRMPD2	446.446675	191.1217098	2.335928636	1.223996
TRIM33	4356.5893	1865.659016	2.335147668	1.223514
TRNAU1AP	287.9498071	123.3401732	2.334598693	1.223175
AGK	207.4566333	88.89381852	2.333757699	1.222655
PACC1	207.4566333	88.89381852	2.333757699	1.222655
ZNF790-AS1	41.49132667	17.7787637	2.333757699	1.222655
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TCF24	5.503212081	8.298265334	1.507894882	0.592536
LPP-AS2	5.503212081	8.298265334	1.507894882	0.592536
ENSG000002	5.503212081	8.298265334	1.507894882	0.592536
SEC14L3	4.402569665	6.638612267	1.507894882	0.592536
P2RX3	4.402569665	6.638612267	1.507894882	0.592536
IAPP	4.402569665	6.638612267	1.507894882	0.592536
USP29	4.402569665	6.638612267	1.507894882	0.592536
UNC45B	4.402569665	6.638612267	1.507894882	0.592536
ADAMTS19	4.402569665	6.638612267	1.507894882	0.592536
PSKH2	4.402569665	6.638612267	1.507894882	0.592536
CIB4	4.402569665	6.638612267	1.507894882	0.592536
CYP11B1	4.402569665	6.638612267	1.507894882	0.592536
SLC1A7	4.402569665	6.638612267	1.507894882	0.592536
GPRC6A	4.402569665	6.638612267	1.507894882	0.592536
OTOL1	4.402569665	6.638612267	1.507894882	0.592536
UFD1-AS1	4.402569665	6.638612267	1.507894882	0.592536
SLC15A5	4.402569665	6.638612267	1.507894882	0.592536
SIGLEC15	4.402569665	6.638612267	1.507894882	0.592536
FABP12	4.402569665	6.638612267	1.507894882	0.592536
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MT-TD	4.402569665	6.638612267	1.507894882	0.592536
SNORA11F	4.402569665	6.638612267	1.507894882	0.592536
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MYL6P4	4.402569665	6.638612267	1.507894882	0.592536
LINC00534	4.402569665	6.638612267	1.507894882	0.592536
ENSG000002	4.402569665	6.638612267	1.507894882	0.592536
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GPIHBP1	4.402569665	6.638612267	1.507894882	0.592536
C18orf15	4.402569665	6.638612267	1.507894882	0.592536
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CATSPER2P1	4.402569665	6.638612267	1.507894882	0.592536
PCK1	3.301927249	4.9789592	1.507894882	0.592536
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OR13C9	3.301927249	4.9789592	1.507894882	0.592536
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MROH6	3.301927249	4.9789592	1.507894882	0.592536
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BOLA3-DT	3.301927249	4.9789592	1.507894882	0.592536
AGBL4-IT1	3.301927249	4.9789592	1.507894882	0.592536
HSPE1P13	3.301927249	4.9789592	1.507894882	0.592536
RPS15AP30	3.301927249	4.9789592	1.507894882	0.592536
ENSG000002	3.301927249	4.9789592	1.507894882	0.592536
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SNORD62B	3.301927249	4.9789592	1.507894882	0.592536
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ELF2P3	3.301927249	4.9789592	1.507894882	0.592536
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KANK2	1420.929359	1298.960923	0.914162913	-0.129477
ARL3	244.3426164	223.345719	0.914067805	-0.129627
TMOD4	81.44753881	74.44857301	0.914067805	-0.129627
MALSU1	186.0085684	170.0094279	0.913987078	-0.129754
ARHGAP21	2811.040731	2569.031355	0.913907553	-0.12988
STT3A	2412.608177	2204.566699	0.913769057	-0.130099
BEST1	69.34047223	63.33684569	0.913418148	-0.130653
DYNLT1	184.9079259	168.8982552	0.913418148	-0.130653
SUV39H1	46.22698148	42.22456379	0.913418148	-0.130653
MAST1	23.11349074	21.1122819	0.913418148	-0.130653
CNTFR	23.11349074	21.1122819	0.913418148	-0.130653
COMMD3	23.11349074	21.1122819	0.913418148	-0.130653
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C1QBP	403.9357668	368.9093468	0.913287154	-0.13086
PON2	575.6359837	525.584702	0.913050464	-0.131233
GMPS	1639.9572	1496.749669	0.912676056	-0.131825
DNAJB4	228.9336226	208.9004735	0.912493635	-0.132114
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TRAPPC10	1097.340489	1001.166631	0.912357323	-0.132329
SETD3	1606.937928	1465.636833	0.912068106	-0.132787
CAND2	68.23982981	62.22567296	0.911867353	-0.133104
SIRPB2	34.11991491	31.11283648	0.911867353	-0.133104
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ZNF611	782.556758	713.3728936	0.911592528	-0.133539
RAE1	271.8586768	247.7915191	0.911471806	-0.13373
RNMT	362.111355	330.0183012	0.911372418	-0.133887
APBB2	1526.591031	1391.18826	0.911303834	-0.133996
PPTC7	169.4989321	154.4530097	0.911232937	-0.134108
TXLNA	474.3768814	432.2461925	0.911187306	-0.13418
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WDR33	1014.792308	924.4957126	0.91101963	-0.134446
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TMBIM6	4645.811639	4229.123416	0.910308843	-0.135572
CCDC168	134.2783748	122.2290005	0.910265712	-0.13564
ATP5MK	67.13918739	61.11450023	0.910265712	-0.13564
ZNF664	1074.226998	977.8320037	0.910265712	-0.13564
USP37	693.4047223	631.1461115	0.910213172	-0.135724
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SKIL	1150.171325	1046.724713	0.910059823	-0.135967
CARNMT1	312.5824462	284.4602192	0.91003261	-0.13601
PIGB	156.2912231	142.2301096	0.91003261	-0.13601
GAB3	78.14561156	71.11505481	0.91003261	-0.13601
LNX2	501.8929418	456.6919926	0.909939062	-0.136158
PIAS4	278.4625313	253.3473828	0.909807799	-0.136366
PRPS1	411.6402637	374.4652105	0.909690435	-0.136552
ARMC1	255.3490406	232.2351009	0.909481	-0.136885
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CERT1	762.7451945	693.3717844	0.909047726	-0.137572
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ZNF347	859.6017271	781.1544302	0.90873995	-0.138061
RXYLT1	231.1349074	210.0116462	0.908610684	-0.138266
CFL2	363.2119974	330.0183012	0.908610684	-0.138266
SNAP25	33.01927249	30.00166375	0.908610684	-0.138266
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SYP	22.01284833	20.00110917	0.908610684	-0.138266
RASAL1	22.01284833	20.00110917	0.908610684	-0.138266
TUBA1B-AS1	22.01284833	20.00110917	0.908610684	-0.138266
MASP2	11.00642416	10.00055458	0.908610684	-0.138266
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HOXC13	11.00642416	10.00055458	0.908610684	-0.138266
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SMG7	2611.824454	2372.353782	0.908312876	-0.138739
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PHLPP2	489.7858753	444.4690926	0.907476338	-0.140068
FBXW11	1458.351202	1323.406723	0.907467777	-0.140082
NOP56	662.5867346	601.1444477	0.907269066	-0.140398
TTC21A	194.8137077	176.6764643	0.906899552	-0.140985
PPIB	1839.173478	1667.87027	0.906858592	-0.14105
DNAH11	432.5524696	392.2439742	0.906812472	-0.141124
TMEM39B	172.8008594	156.6753551	0.906681574	-0.141332
MSL1	864.0042968	783.3767757	0.906681574	-0.141332
SLC30A5	829.8843819	752.2639392	0.906468365	-0.141671
CALR	6602.753855	5984.776332	0.906406094	-0.141771
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PARP10	268.5567496	243.3468282	0.906128141	-0.142213
SH3BGRL3	515.1006508	466.6925472	0.906022049	-0.142382
SOX18	42.92505424	38.8910456	0.906022049	-0.142382
MISFA	42.92505424	38.8910456	0.906022049	-0.142382
ZNF786	321.3875856	291.1272556	0.905844745	-0.142664
ALDH3A2	1124.856549	1018.945395	0.905844745	-0.142664
PIK3R5	149.6873686	135.5630732	0.905641368	-0.142988
DEF6	181.6059987	164.4535643	0.905551388	-0.143132
NDUFB1	181.6059987	164.4535643	0.905551388	-0.143132
MYO16	63.83726015	57.78098203	0.905129417	-0.143804
ALS2CL	63.83726015	57.78098203	0.905129417	-0.143804
CD80	20.74566333	8.889381852	2.333757699	1.222655
RENO1	20.74566333	8.889381852	2.333757699	1.222655
TTC32	189.2004496	81.11560939	2.332478928	1.221864
EXOSC3	880.4459519	377.7987287	2.330462982	1.220617
WBP11	2773.280275	1190.065995	2.330358388	1.220552
MGAT5	1239.760841	532.2517384	2.329275325	1.219881
CLPB	905.3407479	388.910456	2.327889965	1.219023
JAZF1	113.6862351	48.89160018	2.325271307	1.217399
NECAP1	250.6076131	107.7837549	2.32509633	1.21729
TSFM	23.23514293	10.00055458	2.323385442	1.216229
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NOD1	185.8811435	80.00443666	2.323385442	1.216229
ELAC1	69.7054288	30.00166375	2.323385442	1.216229
ARRDC3	1294.529392	557.8087112	2.320740724	1.214585
LGALSL	288.7796336	124.4513459	2.320421941	1.214387
STX1A	72.1949084	31.11283648	2.320421941	1.214387
ZNF28	1283.741647	553.3640203	2.319886368	1.214054
ADAM17	2087.843558	900.0499125	2.319697529	1.213937
GIMAP4	97.91953094	42.22456379	2.319018177	1.213514
MRPS35	1004.919932	433.3573653	2.318917394	1.213451
BTF3	859.7002886	371.1316923	2.316429199	1.211903
DAAM2-AS	51.44924507	22.22345463	2.315087637	1.211067
TMC3-AS1	25.72462253	11.11172731	2.315087637	1.211067
PFKFB4	187.5407965	81.11560939	2.312018586	1.209153
FAM91A1	1815.660455	785.5991211	2.311179336	1.208629
UBE2L3	356.8254093	154.4530097	2.310252226	1.20805
ENSG000002	138.5810311	60.0033275	2.309555767	1.207615
RPE	1313.615402	568.9204385	2.308961523	1.207244
MYLK3	28.21410213	12.22290005	2.308298524	1.20683
CATIP	28.21410213	12.22290005	2.308298524	1.20683
DOCK11	743.5245739	322.2400921	2.307362095	1.206244
COL3A1	87.131786	37.77987287	2.306301726	1.205581
DDX19A	87.131786	37.77987287	2.306301726	1.205581
TSR1	1906.111547	826.7125122	2.30565223	1.205175
PAFAH1B3	596.6452775	258.9032464	2.304510607	1.20446
WARS2-AS1	89.6212656	38.8910456	2.304419031	1.204403
AK9	299.5673785	130.0072096	2.304236661	1.204289
DDX39A	726.9280432	315.5730557	2.303517458	1.203839
MALAT1	20213.74453	8776.042233	2.303287062	1.203694
FOXQ1	61.40716347	26.66814555	2.30264093	1.203289
SNW1	1918.558945	833.3795486	2.302143061	1.202977
SYF2	1652.184628	717.8175845	2.301677562	1.202686
CCDC82	966.7479114	420.0232925	2.301653096	1.20267
LZIC	1030.644554	447.8026108	2.30155995	1.202612
USP6NL	1722.719883	748.930421	2.300240229	1.201785
PASK	958.449646	416.6897743	2.300151588	1.201729
ZNF610	291.2691132	126.6736914	2.29936548	1.201236
DNAJC21	1037.283167	451.136129	2.299268669	1.201175
RNF6	1205.737953	524.4735292	2.298949109	1.200975
C1QBP	848.0827171	368.9093468	2.298891921	1.200939
PLEKHG4B	697.054288	303.3501557	2.297853734	1.200287
PIGA	268.0339703	116.6731368	2.297306626	1.199943
PAIP1	1240.590667	540.0299475	2.297262723	1.199916
ARF6	1248.059106	543.3634657	2.296913917	1.199697
RPAP3	1023.176116	445.5802653	2.296277899	1.199297
ZNF644	5151.563119	2243.457745	2.296260374	1.199286
MYO3B	68.87560227	30.00166375	2.295726092	1.198951
RPA1	1985.774894	865.6035578	2.294092806	1.197924
COX7A2	983.344442	428.9126743	2.292644869	1.197013
PPFIA4	183.3916639	80.00443666	2.292268673	1.196776
PPP4R3A	3734.2194	1630.090397	2.290805103	1.195855
SLC25A53	38.17202053	16.66759097	2.290194222	1.19547
ZNRF1	310.3551235	135.5630732	2.289378044	1.194956
PRPS1	857.210809	374.4652105	2.289160074	1.194818
MRPS5	78.83352067	34.44635467	2.288588195	1.194458
TMX1	876.2968192	383.3545923	2.285864932	1.19274
CYB5B	251.4374396	110.0061004	2.285668146	1.192616
ENSG000002	83.81247987	36.66870014	2.285668146	1.192616
TOP1MT	924.4267582	404.4668742	2.285543804	1.192537
CEP192	4197.262606	1836.768525	2.285134217	1.192279
NBN	3186.533888	1394.521778	2.28503702	1.192218
CBFB	555.9837774	243.3468282	2.284738131	1.192029
PSME2	86.30195947	37.77987287	2.284336948	1.191775
TMEM198	86.30195947	37.77987287	2.284336948	1.191775
FABP5P7	43.15097974	18.88993643	2.284336948	1.191775
DUSP4	400.8062156	175.5652916	2.282946772	1.190897
TXNL4A	669.6700124	293.3496011	2.282839349	1.190829
CFAP97	1565.052842	685.5935753	2.282770578	1.190786
AHCTF1	4091.044809	1792.321616	2.282539458	1.19064
ENSG000002	45.64045934	20.00110917	2.281896417	1.190233
PTPN22	48.12993894	21.1122819	2.279712784	1.188852
TXNDC17	291.2691132	127.7848641	2.279370998	1.188636
EEIG2	587.5171856	257.7920737	2.279035105	1.188423
CETN3	149.368776	65.55919115	2.278380398	1.188009
ENSG000002	50.61941854	22.22345463	2.277747514	1.187608
NOL7	609.922502	267.7926283	2.277592576	1.18751
MTERF2	463.0432056	203.3446099	2.277135381	1.18722
CBR4	738.5456147	324.4624376	2.276212988	1.186636
ARID3A	106.2177963	46.66925472	2.275969413	1.186481
SCPEP1	3170.767184	1393.410605	2.27554403	1.186212
SNRPA	806.5913904	354.4641013	2.275523494	1.186198
ASTN1	116.1757147	51.11394565	2.272877063	1.18452
STON2	1227.313443	540.0299475	2.272676633	1.184392
WDR43	1419.003372	624.4790751	2.272299311	1.184153
TTLL5	3506.84693	1544.530097	2.270494397	1.183006
COPB2-DT	63.06681654	27.77931829	2.270279489	1.18287
TAOK1	3821.351186	1683.426688	2.269983726	1.182682
CCT8P1	196.6688884	86.67147305	2.269130563	1.18214
FBXO32	2438.860182	1075.615204	2.267409546	1.181045
GPT2	790.8246863	348.9082377	2.266569261	1.18051
ZIC5	367.6131543	162.2312188	2.265982818	1.180137
ENSG000002	3.301927249	4.9789592	1.507894882	0.592536
ENSG000002	3.301927249	4.9789592	1.507894882	0.592536
ENSG000002	3.301927249	4.9789592	1.507894882	0.592536
ENSG000002	3.301927249	4.9789592	1.507894882	0.592536
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SCTR	2.201284833	3.319306133	1.507894882	0.592536
F11	2.201284833	3.319306133	1.507894882	0.592536
RPS10P5	2.201284833	3.319306133	1.507894882	0.592536
OCA2	2.201284833	3.319306133	1.507894882	0.592536
YWHAE	2.201284833	3.319306133	1.507894882	0.592536
CA14	2.201284833	3.319306133	1.507894882	0.592536
VSX2	2.201284833	3.319306133	1.507894882	0.592536
TP53AIP1	2.201284833	3.319306133	1.507894882	0.592536
RASL11B	2.201284833	3.319306133	1.507894882	0.592536
FBP2	2.201284833	3.319306133	1.507894882	0.592536
PYY	2.201284833	3.319306133	1.507894882	0.592536
HRK	2.201284833	3.319306133	1.507894882	0.592536
WDR38	2.201284833	3.319306133	1.507894882	0.592536
FGFBP1	2.201284833	3.319306133	1.507894882	0.592536
SRRM4	2.201284833	3.319306133	1.507894882	0.592536
PLA2G2F	2.201284833	3.319306133	1.507894882	0.592536
FGF19	2.201284833	3.319306133	1.507894882	0.592536
SSX3	2.201284833	3.319306133	1.507894882	0.592536
MOGAT2	2.201284833	3.319306133	1.507894882	0.592536
GNGT2	2.201284833	3.319306133	1.507894882	0.592536
PPDPFL	2.201284833	3.319306133	1.507894882	0.592536
FABP6	2.201284833	3.319306133	1.507894882	0.592536
KRT83	2.201284833	3.319306133	1.507894882	0.592536
DMBT1L1	2.201284833	3.319306133	1.507894882	0.592536
TAS1R2	2.201284833	3.319306133	1.507894882	0.592536
UTS2R	2.201284833	3.319306133	1.507894882	0.592536
OR52D1	2.201284833	3.319306133	1.507894882	0.592536
TCHHL1	2.201284833	3.319306133	1.507894882	0.592536
FAM133CP	2.201284833	3.319306133	1.507894882	0.592536
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PRR23B	2.201284833	3.319306133	1.507894882	0.592536
RUFY4	2.201284833	3.319306133	1.507894882	0.592536
C2orf80	2.201284833	3.319306133	1.507894882	0.592536
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ENSG000001	2.201284833	3.319306133	1.507894882	0.592536
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RPL13AP7	2.201284833	3.319306133	1.507894882	0.592536
C10orf105	2.201284833	3.319306133	1.507894882	0.592536
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GSG1L2	2.201284833	3.319306133	1.507894882	0.592536
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RPF2P1	2.201284833	3.319306133	1.507894882	0.592536
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CENPCP1	2.201284833	3.319306133	1.507894882	0.592536
GOLGA7B-D	2.201284833	3.319306133	1.507894882	0.592536
CHUK-DT	2.201284833	3.319306133	1.507894882	0.592536
LINC01132	2.201284833	3.319306133	1.507894882	0.592536
BOD1L2	2.201284833	3.319306133	1.507894882	0.592536
ST13P19	2.201284833	3.319306133	1.507894882	0.592536
CHMP3-AS1	2.201284833	3.319306133	1.507894882	0.592536
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GRK5-IT1	2.201284833	3.319306133	1.507894882	0.592536
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EPC1-AS2	2.201284833	3.319306133	1.507894882	0.592536
BCAS2P2	2.201284833	3.319306133	1.507894882	0.592536
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RPL17P48	2.201284833	3.319306133	1.507894882	0.592536
LINC01474	2.201284833	3.319306133	1.507894882	0.592536
SNAI1P1	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
RPS3P7	2.201284833	3.319306133	1.507894882	0.592536
TICAM2	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
C9orf85P2	2.201284833	3.319306133	1.507894882	0.592536
ASLP1	2.201284833	3.319306133	1.507894882	0.592536
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SUMO2P17	2.201284833	3.319306133	1.507894882	0.592536
LETR1	2.201284833	3.319306133	1.507894882	0.592536
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SCARNA3	2.201284833	3.319306133	1.507894882	0.592536
PKIA-AS1	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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GLYATL1B	2.201284833	3.319306133	1.507894882	0.592536
HNRNPABP1	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
LINC02443	2.201284833	3.319306133	1.507894882	0.592536
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HSPD1P4	2.201284833	3.319306133	1.507894882	0.592536

ST18	31.91863007	28.89049102	0.905129417	-0.143804
PPP1CB	2105.528942	1905.661234	0.905074823	-0.143891
MAPKAPK2	1061.019289	960.05324	0.904840515	-0.144265
MDN1	3798.316979	3436.857258	0.904836873	-0.14427
STAM	508.4967963	460.0255108	0.904677304	-0.144525
ZGRF1	423.7473303	383.3545923	0.904677304	-0.144525
CDR2L	84.74946605	76.67091847	0.904677304	-0.144525
MLX	222.3297681	201.1222644	0.904612397	-0.144628
ATR	2951.922961	2670.148074	0.904545311	-0.144735
ARRDC4	296.07281	267.7926283	0.904482341	-0.144836
PPT1	1522.188462	1376.743014	0.904449777	-0.144888
SKP2	285.0663858	257.7920737	0.904322946	-0.14509
SFPQ	5162.012932	4668.036645	0.904305492	-0.145118
SFT2D2	400.6338395	362.2423104	0.904173025	-0.145329
WASHC5	1929.426156	1743.430016	0.903600281	-0.146243
ADGRL2	3581.490423	3235.734994	0.903460463	-0.146467
NDUFA1	942.1499084	851.1583123	0.903421318	-0.146529
AKAP7	83.64882364	75.55974574	0.903297171	-0.146727
RSAD2	41.82441182	37.77987287	0.903297171	-0.146727
MREG	20.91220591	18.88993643	0.903297171	-0.146727
CCDC96	20.91220591	18.88993643	0.903297171	-0.146727
CFAP276	20.91220591	18.88993643	0.903297171	-0.146727
RBX1	271.8586768	245.5691736	0.903297171	-0.146727
EDRF1	969.6659688	875.6041124	0.902995609	-0.147209
OPA1	1374.702378	1241.179941	0.902871749	-0.147407
TYW1B	478.7794511	432.2461925	0.902808572	-0.147508
SLC30A9	1612.44114	1455.636278	0.902753125	-0.147597
TIAL1	1882.098532	1698.983106	0.902706781	-0.147671
PCDHGA11	93.55460539	84.44912759	0.902672052	-0.147726
NT5DC1	435.8543969	393.3551469	0.902492093	-0.148014
HDLBP	16241.07949	14656.36833	0.902425749	-0.14812
SART1	549.2205657	495.5830382	0.902338822	-0.148259
TNFRSF1B	155.1905807	140.0077642	0.902166636	-0.148534
IREB2	1127.057834	1016.723049	0.902103706	-0.148635
SLC4A11	237.7387619	214.4563372	0.902067191	-0.148693
WWOX	237.7387619	214.4563372	0.902067191	-0.148693
TRMO	431.4518272	388.910456	0.901399488	-0.149761
TMEM145	61.63597531	55.55863657	0.901399488	-0.149761
SMIM7	61.63597531	55.55863657	0.901399488	-0.149761
MFAP3	225.6316953	203.3446099	0.901223605	-0.150043
ZNF527	194.8137077	175.5652916	0.901195782	-0.150088
PEX12	102.3597447	92.22733671	0.901011789	-0.150382
ATXN7L1	859.6017271	774.4873938	0.90098399	-0.150427
GABPB2	468.8736693	422.2456379	0.900553103	-0.151117
C1orf35	81.44753881	73.33740027	0.900425002	-0.151322
ZNF784	40.7237694	36.66870014	0.900425002	-0.151322
ANKRD34B	40.7237694	36.66870014	0.900425002	-0.151322
ARHGAP24	192.6124229	173.3429461	0.899957249	-0.152072
KLHL29	101.2591023	91.11616398	0.899831836	-0.152273
DDX27	759.4432672	683.3712298	0.899831836	-0.152273
ENSG000002	50.62955115	45.55808199	0.899831836	-0.152273
ADPGK	374.2184215	336.6853376	0.899702736	-0.15248
NRSN2	181.6059987	163.3423915	0.899432798	-0.152913
PTPN18	312.5824462	281.1267011	0.899368165	-0.153016
METTL18	130.9764475	117.7843095	0.899278548	-0.15316
UBE2D3	876.1113634	787.8214666	0.899225258	-0.153246
DPH6	140.8822293	126.6736914	0.899145989	-0.153373
RSBN1L	562.4282747	505.5835928	0.8989299	-0.153719
TIA1	1335.079251	1200.06655	0.898872894	-0.153811
IQCH	200.3169198	180.0099825	0.898625951	-0.154207
HIC1	200.3169198	180.0099825	0.898625951	-0.154207
STK35	310.3811614	278.9043556	0.89858661	-0.154271
RLIM	990.5781747	890.0493579	0.898515009	-0.154385
DCTN4	900.3254965	808.9337485	0.898490326	-0.154425
RTCA	379.7216336	341.1300286	0.898368695	-0.15462
KPNB1	3475.828751	3121.284203	0.897997119	-0.155217
PPP6R2	1075.327641	965.6091036	0.897967342	-0.155265
SPAG16	258.6509678	232.2351009	0.897870605	-0.155421
HSPA5	6741.4348	6051.446695	0.897649666	-0.155776
NOP14-AS1	29.71734524	26.66814555	0.897393268	-0.156188
MRPL46	29.71734524	26.66814555	0.897393268	-0.156188
TNFRSF12A	79.24625397	71.11505481	0.897393268	-0.156188
CCDC34	79.24625397	71.11505481	0.897393268	-0.156188
CENPI	39.62312699	35.55752741	0.897393268	-0.156188
CDK7	19.81156349	17.7787637	0.897393268	-0.156188
MPZ	19.81156349	17.7787637	0.897393268	-0.156188
C1QL3	19.81156349	17.7787637	0.897393268	-0.156188
MUC15	19.81156349	17.7787637	0.897393268	-0.156188
CNIH2	19.81156349	17.7787637	0.897393268	-0.156188
LRRD1	19.81156349	17.7787637	0.897393268	-0.156188
TRPC5	9.905781747	8.889381852	0.897393268	-0.156188
RASL10A	9.905781747	8.889381852	0.897393268	-0.156188
WFDC3	9.905781747	8.889381852	0.897393268	-0.156188
KRT27	9.905781747	8.889381852	0.897393268	-0.156188
PHETA2	9.905781747	8.889381852	0.897393268	-0.156188
WT1	9.905781747	8.889381852	0.897393268	-0.156188
CCDC73	9.905781747	8.889381852	0.897393268	-0.156188
ZNF286A	9.905781747	8.889381852	0.897393268	-0.156188
NANOS1	9.905781747	8.889381852	0.897393268	-0.156188
ST13P6	9.905781747	8.889381852	0.897393268	-0.156188
FSIP2-AS2	9.905781747	8.889381852	0.897393268	-0.156188
BSG-AS1	9.905781747	8.889381852	0.897393268	-0.156188
UVRAG	425.9486151	382.2434196	0.897393268	-0.156188
H2AZ1	89.15203572	80.00443666	0.897393268	-0.156188
BCS1L	227.8329802	204.4557826	0.897393268	-0.156188
NCOR1	9466.625423	8494.915532	0.897354142	-0.156251
SCO1	484.2826632	434.468538	0.897138327	-0.156598
DHX33	433.653112	388.910456	0.896823856	-0.157103
ABCA5	1122.655265	1006.722495	0.89673342	-0.157249
NSUN7	561.3276323	503.3612473	0.89673342	-0.157249
DSTYK	472.1755966	423.3568107	0.896608833	-0.157449
UGCG	1446.387648	638.9243206	2.263785555	1.178737
RPGR	990.8128808	437.8020562	2.263152644	1.178334
ZNF708	527.7696752	233.3462736	2.261744604	1.177436
BANF1	858.870462	380.0210742	2.260060087	1.176361
PANX1	572.580308	253.3473828	2.260060087	1.176361
TBCEL	97.91953094	43.33573653	2.259556172	1.176039
ZNF200	296.2480724	131.1183823	2.259393894	1.175936
THOC7	497.0660935	220.0122008	2.259266039	1.175854
UGP2	1443.068342	638.9243206	2.258590407	1.175423
TOPORS	2521.842835	1116.728595	2.25824148	1.1752
NUP205	3176.57597	1406.744678	2.258104132	1.175112
ZBTB41	1407.385801	623.3679023	2.257712974	1.174862
DUSP12	463.8730322	205.5669553	2.256554471	1.174122
GPR89A	233.1812559	103.339064	2.256467659	1.174066
PAIP2B	235.6707355	104.4502368	2.256296805	1.173957
WDR41	614.0716347	272.2373192	2.255648258	1.173542
BOD1	764.2702372	338.9076831	2.255098587	1.173191
ZNF611	1608.203822	713.3728936	2.254366315	1.172722
INTS13	1151.799228	511.1394565	2.25339526	1.1721
CDK5RAP2	4534.172178	2013.444989	2.251947385	1.171173
HSP90B1	12980.14663	5764.764131	2.251635339	1.170973
ZNF138	167.6249597	74.44857301	2.251553696	1.170921
ZNF429	557.6434304	247.7915191	2.250454061	1.170216
THUMPD3	957.6198195	425.5791561	2.25015677	1.170026
PUF60	192.5197557	85.56030032	2.250106124	1.169993
ERICH5	195.0092353	86.67147305	2.249981781	1.169913
SLC1A5	1059.688483	471.1372381	2.249214024	1.169421
PNPT1	1191.630902	530.0293929	2.248235509	1.168793
E2F6	239.8198681	106.6725822	2.248186583	1.168762
SESTD1	2665.402825	1185.621304	2.248106385	1.16871
DTWD1	249.7777865	111.1172731	2.247875416	1.168562
PPP1CC	4018.849901	1787.876925	2.247833643	1.168535
KCTD5	307.0358173	136.674246	2.246478956	1.167666
CTCF	1230.632749	547.8081566	2.24646664	1.167658
AEBP2	993.3023604	442.2467471	2.246036555	1.167381
MAP4K5	2312.726548	1030.057122	2.245241064	1.16687
FOXN2	503.7047058	224.4568918	2.244104433	1.16614
IFT81	660.5419206	294.4607738	2.243225513	1.165575
TMTC2	1390.78927	620.0343841	2.243084102	1.165484
LHFPL3	24.894796	11.11172731	2.240407391	1.163761
ZNF100	24.894796	11.11172731	2.240407391	1.163761
LINC03051	24.894796	11.11172731	2.240407391	1.163761
CCPG1	24.894796	11.11172731	2.240407391	1.163761
SCIMP	12.447398	5.555863657	2.240407391	1.163761
RPP14	12.447398	5.555863657	2.240407391	1.163761
BTG3	707.0122064	315.5730557	2.240407391	1.163761
ENSG000002	126.9634596	56.6698093	2.240407391	1.163761
CDKN2B	107.0476228	47.78042745	2.240407391	1.163761
ELFN1	89.6212656	40.00221833	2.240407391	1.163761
RPL15P2	22.4053164	10.00055458	2.240407391	1.163761
TRMT112P6	22.4053164	10.00055458	2.240407391	1.163761
ENSG000002	22.4053164	10.00055458	2.240407391	1.163761
NXT1	271.3532764	121.1178277	2.240407391	1.163761
MLYCD	42.3211532	18.88993643	2.240407391	1.163761
PRR13	39.8316736	17.7787637	2.240407391	1.163761
PPIAP11	19.9158368	8.889381852	2.240407391	1.163761
RETSAT	9.9579184	4.444690926	2.240407391	1.163761
ANXA10	9.9579184	4.444690926	2.240407391	1.163761
KISS1R	9.9579184	4.444690926	2.240407391	1.163761
TASL	9.9579184	4.444690926	2.240407391	1.163761
EFNA3	9.9579184	4.444690926	2.240407391	1.163761
RAB4B	9.9579184	4.444690926	2.240407391	1.163761
BHLHA15	9.9579184	4.444690926	2.240407391	1.163761
HMX2	9.9579184	4.444690926	2.240407391	1.163761
STARD7-AS	9.9579184	4.444690926	2.240407391	1.163761
RPL5P23	9.9579184	4.444690926	2.240407391	1.163761
BAZ1A-AS1	9.9579184	4.444690926	2.240407391	1.163761
ENSG000002	9.9579184	4.444690926	2.240407391	1.163761
ENSG000002	9.9579184	4.444690926	2.240407391	1.163761
FRG1HP	9.9579184	4.444690926	2.240407391	1.163761
SLC4A9	4.9789592	2.222345463	2.240407391	1.163761
OBP2A	4.9789592	2.222345463	2.240407391	1.163761
GPR12	4.9789592	2.222345463	2.240407391	1.163761
CFAP100	4.9789592	2.222345463	2.240407391	1.163761
C12orf54	4.9789592	2.222345463	2.240407391	1.163761
DNAJC28	4.9789592	2.222345463	2.240407391	1.163761
TMEM86B	4.9789592	2.222345463	2.240407391	1.163761
SAGE1	4.9789592	2.222345463	2.240407391	1.163761
PRR34	4.9789592	2.222345463	2.240407391	1.163761
TRDN	4.9789592	2.222345463	2.240407391	1.163761
SBK2	4.9789592	2.222345463	2.240407391	1.163761
BZW1P2	4.9789592	2.222345463	2.240407391	1.163761
SNORA38B	4.9789592	2.222345463	2.240407391	1.163761
ENSG000002	4.9789592	2.222345463	2.240407391	1.163761
GNRHR2	4.9789592	2.222345463	2.240407391	1.163761
LINC00598	4.9789592	2.222345463	2.240407391	1.163761
ENSG000002	4.9789592	2.222345463	2.240407391	1.163761
RPL7L1P8	4.9789592	2.222345463	2.240407391	1.163761
LINC01135	4.9789592	2.222345463	2.240407391	1.163761
HIGD2AP2	4.9789592	2.222345463	2.240407391	1.163761
CYP2U1-AS	4.9789592	2.222345463	2.240407391	1.163761
LINC01094	4.9789592	2.222345463	2.240407391	1.163761
HOXA-AS2	4.9789592	2.222345463	2.240407391	1.163761
PRECSIT	4.9789592	2.222345463	2.240407391	1.163761
ENSG000002	4.9789592	2.222345463	2.240407391	1.163761
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LINC03059	4.9789592	2.222345463	2.240407391	1.163761
ENSG000002	4.9789592	2.222345463	2.240407391	1.163761
TMEM220-A	4.9789592	2.222345463	2.240407391	1.163761
HIKESHIP2	4.9789592	2.222345463	2.240407391	1.163761
VN1R83P	4.9789592	2.222345463	2.240407391	1.163761
SNX5P2	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
LINC01220	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
LINC00562	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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MIR3679	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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BRCA1P1	2.201284833	3.319306133	1.507894882	0.592536
ICAM4-AS1	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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PPP2CA-DT	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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CEACAM20	2.201284833	3.319306133	1.507894882	0.592536
ENSG000002	2.201284833	3.319306133	1.507894882	0.592536
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DPY19L2P4	2.201284833	3.319306133	1.507894882	0.592536
ASB4	1.100642416	1.659653067	1.507894882	0.592536
LGALS14	1.100642416	1.659653067	1.507894882	0.592536
SLC6A7	1.100642416	1.659653067	1.507894882	0.592536
DMRT3	1.100642416	1.659653067	1.507894882	0.592536
CYP2W1	1.100642416	1.659653067	1.507894882	0.592536
POU4F3	1.100642416	1.659653067	1.507894882	0.592536
SLC5A4	1.100642416	1.659653067	1.507894882	0.592536
SLC10A1	1.100642416	1.659653067	1.507894882	0.592536
SERPINA4	1.100642416	1.659653067	1.507894882	0.592536
ASIP	1.100642416	1.659653067	1.507894882	0.592536
GLRA2	1.100642416	1.659653067	1.507894882	0.592536
TULP2	1.100642416	1.659653067	1.507894882	0.592536
UPK2	1.100642416	1.659653067	1.507894882	0.592536
FGF6	1.100642416	1.659653067	1.507894882	0.592536
PRAMEF1	1.100642416	1.659653067	1.507894882	0.592536
GJA8	1.100642416	1.659653067	1.507894882	0.592536
CSTL1	1.100642416	1.659653067	1.507894882	0.592536
C20orf173	1.100642416	1.659653067	1.507894882	0.592536
FFAR1	1.100642416	1.659653067	1.507894882	0.592536
OR7A10	1.100642416	1.659653067	1.507894882	0.592536
CDKN1C	1.100642416	1.659653067	1.507894882	0.592536
FCRLA	1.100642416	1.659653067	1.507894882	0.592536
LGALS12	1.100642416	1.659653067	1.507894882	0.592536
SEC14L4	1.100642416	1.659653067	1.507894882	0.592536
HCRTR2	1.100642416	1.659653067	1.507894882	0.592536
IGLON5	1.100642416	1.659653067	1.507894882	0.592536
CELA2A	1.100642416	1.659653067	1.507894882	0.592536
REG3G	1.100642416	1.659653067	1.507894882	0.592536
GPR17	1.100642416	1.659653067	1.507894882	0.592536
IFNA5	1.100642416	1.659653067	1.507894882	0.592536
RPL7A	1.100642416	1.659653067	1.507894882	0.592536
PTH	1.100642416	1.659653067	1.507894882	0.592536
HTR5A	1.100642416	1.659653067	1.507894882	0.592536
SLAMF9	1.100642416	1.659653067	1.507894882	0.592536
BIRC8	1.100642416	1.659653067	1.507894882	0.592536
LRRC18	1.100642416	1.659653067	1.507894882	0.592536
LALBA	1.100642416	1.659653067	1.507894882	0.592536
ADAM18	1.100642416	1.659653067	1.507894882	0.592536
ACTBL2	1.100642416	1.659653067	1.507894882	0.592536
CST5	1.100642416	1.659653067	1.507894882	0.592536
RNF139	1.100642416	1.659653067	1.507894882	0.592536
ZBTB8OSP2	1.100642416	1.659653067	1.507894882	0.592536
MIR1-1HG	1.100642416	1.659653067	1.507894882	0.592536
NPPA	1.100642416	1.659653067	1.507894882	0.592536
GPR152	1.100642416	1.659653067	1.507894882	0.592536
EIF4E1B	1.100642416	1.659653067	1.507894882	0.592536

TCEAL4	727.5246372	652.2583934	0.896544749	-0.157553	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	TAC4	1.100642416	1.659653067	1.507894882	0.592536
TRAF3	391.8287002	351.1305831	0.896132884	-0.158215	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	OR51S1	1.100642416	1.659653067	1.507894882	0.592536
STX18	264.1541799	236.6797918	0.895991091	-0.158444	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	CETN1	1.100642416	1.659653067	1.507894882	0.592536
PELO	224.5310529	201.1222644	0.895743648	-0.158842	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	OR2G3	1.100642416	1.659653067	1.507894882	0.592536
TRIM5	214.6252712	192.2328825	0.895667511	-0.158965	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	ZBED2	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	68.23982981	61.11450023	0.895584007	-0.159099	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	NSA2P3	1.100642416	1.659653067	1.507894882	0.592536
HIVEP2	3439.507551	3080.170812	0.89552669	-0.159192	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	OR6C2	1.100642416	1.659653067	1.507894882	0.592536
NOP14	886.0171451	793.3773302	0.895442413	-0.159327	Metazoa_SRI	4.9789592	2.222345463	2.240407391	1.163761	TIGD5	1.100642416	1.659653067	1.507894882	0.592536
TP53BP1	2878.179919	2576.809564	0.895291343	-0.159571	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	GARIN5B	1.100642416	1.659653067	1.507894882	0.592536
VASH1	116.6680961	104.4502368	0.895276774	-0.159594	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	XIAPP3	1.100642416	1.659653067	1.507894882	0.592536
MTMR11	106.7623144	95.5608549	0.895080399	-0.159911	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	GSX2	1.100642416	1.659653067	1.507894882	0.592536
MIA3	8815.045112	7888.21522	0.894858179	-0.160269	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	OR56B4	1.100642416	1.659653067	1.507894882	0.592536
MSH6	1549.704522	1386.743569	0.894843855	-0.160292	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	FDCSP	1.100642416	1.659653067	1.507894882	0.592536
SMC2	387.4261305	346.6858922	0.894843855	-0.160292	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	ACTL9	1.100642416	1.659653067	1.507894882	0.592536
ACAD8	135.3790172	121.1178277	0.894657313	-0.160593	ENSG000002	4.9789592	2.222345463	2.240407391	1.163761	OR52K2	1.100642416	1.659653067	1.507894882	0.592536
ACIN1	3721.27201	3329.073503	0.894606332	-0.160675	WFDC1	2.4894796	1.111172731	2.240407391	1.163761	OR2V2	1.100642416	1.659653067	1.507894882	0.592536
ABCA1	2135.246288	1910.105925	0.894560003	-0.16075	APOA5	2.4894796	1.111172731	2.240407391	1.163761	NKX2-5	1.100642416	1.659653067	1.507894882	0.592536
DDX23	1274.543918	1140.063222	0.894487201	-0.160867	TECTB	2.4894796	1.111172731	2.240407391	1.163761	ENSG000001	1.100642416	1.659653067	1.507894882	0.592536
KDM5B	3880.86516	3471.303613	0.894466432	-0.160901	IRGC	2.4894796	1.111172731	2.240407391	1.163761	ENSG000001	1.100642416	1.659653067	1.507894882	0.592536
ZNF214	125.4732355	112.2284459	0.894441316	-0.160941	EREG	2.4894796	1.111172731	2.240407391	1.163761	KLRC4	1.100642416	1.659653067	1.507894882	0.592536
MRPL47	221.2291257	197.7887462	0.894044785	-0.161581	HNRNPR	2.4894796	1.111172731	2.240407391	1.163761	RFLNB	1.100642416	1.659653067	1.507894882	0.592536
NR2C1	576.7366261	515.5841474	0.893968103	-0.161705	BBOX1	2.4894796	1.111172731	2.240407391	1.163761	LYG2	1.100642416	1.659653067	1.507894882	0.592536
CKAP5	3267.807334	2921.273111	0.893955124	-0.161726	FXYD2	2.4894796	1.111172731	2.240407391	1.163761	SPATA31A6	1.100642416	1.659653067	1.507894882	0.592536
COQ7	249.8458285	223.345719	0.893934153	-0.16176	HERC3	2.4894796	1.111172731	2.240407391	1.163761	HDHD5-AS1	1.100642416	1.659653067	1.507894882	0.592536
LSM14B	872.8094361	780.0432575	0.893715427	-0.162113	ISL2	2.4894796	1.111172731	2.240407391	1.163761	SLC36A2	1.100642416	1.659653067	1.507894882	0.592536
VTA1	431.4518272	385.5769378	0.893673206	-0.162181	OR3A3	2.4894796	1.111172731	2.240407391	1.163761	CARD9	1.100642416	1.659653067	1.507894882	0.592536
CBX6	795.764467	711.1505481	0.893669644	-0.162186	PTGER1	2.4894796	1.111172731	2.240407391	1.163761	RTL4	1.100642416	1.659653067	1.507894882	0.592536
TTC28	1502.376898	1342.29666	0.893448682	-0.162543	ANKRD30B	2.4894796	1.111172731	2.240407391	1.163761	OR5H7P	1.100642416	1.659653067	1.507894882	0.592536
PGRMC1	468.8736693	418.9121198	0.893443473	-0.162552	MYOZ3	2.4894796	1.111172731	2.240407391	1.163761	TMEM221	1.100642416	1.659653067	1.507894882	0.592536
GNAI2	1175.486101	1050.058231	0.89329702	-0.162788	CYP2C19	2.4894796	1.111172731	2.240407391	1.163761	IFNA2	1.100642416	1.659653067	1.507894882	0.592536
DCLRE1A	783.6574004	700.0388208	0.89329702	-0.162788	MS4A6E	2.4894796	1.111172731	2.240407391	1.163761	SRP72P2	1.100642416	1.659653067	1.507894882	0.592536
ROBO4	57.23340565	51.11394565	0.893078877	-0.16314	UGT3A2	2.4894796	1.111172731	2.240407391	1.163761	RNASE9	1.100642416	1.659653067	1.507894882	0.592536
PPP1R1B	85.85010847	76.67091847	0.893078877	-0.16314	BRD7P3	2.4894796	1.111172731	2.240407391	1.163761	CNR2	1.100642416	1.659653067	1.507894882	0.592536
GANC	419.3447606	374.4652105	0.892976962	-0.163305	HOXB9	2.4894796	1.111172731	2.240407391	1.163761	SPATA31D4	1.100642416	1.659653067	1.507894882	0.592536
MTSS2	1028.000017	917.8286762	0.892829437	-0.163544	MYEOV	2.4894796	1.111172731	2.240407391	1.163761	CRYBA4	1.100642416	1.659653067	1.507894882	0.592536
TMEM237	323.5888704	288.9049102	0.892814731	-0.163567	ENSG000001	2.4894796	1.111172731	2.240407391	1.163761	ENSG000001	1.100642416	1.659653067	1.507894882	0.592536
SIDT2	1064.321217	950.0526854	0.892637176	-0.163854	ARMC10P1	2.4894796	1.111172731	2.240407391	1.163761	OR2L5	1.100642416	1.659653067	1.507894882	0.592536
LRRC37A2	180.5053563	161.1200461	0.892605346	-0.163906	ASB18	2.4894796	1.111172731	2.240407391	1.163761	OR6Y1	1.100642416	1.659653067	1.507894882	0.592536
LONRF2	351.1049308	313.3507103	0.892470264	-0.164124	REC114	2.4894796	1.111172731	2.240407391	1.163761	KRTAP13-1	1.100642416	1.659653067	1.507894882	0.592536
SLC25A38	425.9486151	380.0210742	0.892175865	-0.1646	OR7E38P	2.4894796	1.111172731	2.240407391	1.163761	CSAG1	1.100642416	1.659653067	1.507894882	0.592536
SERBP1	1864.488253	1663.425579	0.892162005	-0.164622	SREBF2-AS1	2.4894796	1.111172731	2.240407391	1.163761	MIR340	1.100642416	1.659653067	1.507894882	0.592536
HSP90B1	6462.972269	5764.764131	0.891967951	-0.164936	FAM86B1	2.4894796	1.111172731	2.240407391	1.163761	ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
NHERF2	566.8308444	505.5835928	0.89194792	-0.164969	KRT18P59	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.22	1.100642416	1.659653067	1.507894882	0.592536
EIF2B1	585.5417655	522.2511838	0.891911072	-0.165028	RNVU1-22	2.4894796	1.111172731	2.240407391	1.163761	SNORD46	1.100642416	1.659653067	1.507894882	0.592536
PHF20	726.4239948	647.8137024	0.89178456	-0.165233	RNVU1-33	2.4894796	1.111172731	2.240407391	1.163761	RNA5SP435	1.100642416	1.659653067	1.507894882	0.592536
YBX3	1555.207734	1386.743569	0.891677387	-0.165406	LORICRIN	2.4894796	1.111172731	2.240407391	1.163761	RNU4-40P	1.100642416	1.659653067	1.507894882	0.592536
ATF4	1337.280536	1192.288341	0.89157683	-0.165569	AADACL4	2.4894796	1.111172731	2.240407391	1.163761	RNU6-522P	1.100642416	1.659653067	1.507894882	0.592536
PLEKHG3	347.8030036	310.0171921	0.891358582	-0.165922	SMPD5	2.4894796	1.111172731	2.240407391	1.163761	RNU1-100P	1.100642416	1.659653067	1.507894882	0.592536
TTC27	648.2783832	577.8098203	0.891298916	-0.166019	RP9P	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.66	1.100642416	1.659653067	1.507894882	0.592536
PLEKHA4	215.7259136	192.2328825	0.891097779	-0.166344	BHLHA9	2.4894796	1.111172731	2.240407391	1.163761	Metazoa_SRP	1.100642416	1.659653067	1.507894882	0.592536
DMD	3601.301986	3209.066848	0.891085186	-0.166365	RNU6-1201P	2.4894796	1.111172731	2.240407391	1.163761	LINC00970	1.100642416	1.659653067	1.507894882	0.592536
SNTB2	290.5695979	258.9032464	0.891019736	-0.166471	TRAV12-3	2.4894796	1.111172731	2.240407391	1.163761	HSD3B1	1.100642416	1.659653067	1.507894882	0.592536
ABCE1	599.8501169	534.4740838	0.891012719	-0.166482	TRAJ29	2.4894796	1.111172731	2.240407391	1.163761	C10orf62	1.100642416	1.659653067	1.507894882	0.592536
PTCD1	18.71092108	16.66759097	0.890794788	-0.166835	HNRNPA1P4	2.4894796	1.111172731	2.240407391	1.163761	RHOXF2B	1.100642416	1.659653067	1.507894882	0.592536
CDCA7	18.71092108	16.66759097	0.890794788	-0.166835	LAT	2.4894796	1.111172731	2.240407391	1.163761	TXNDC8	1.100642416	1.659653067	1.507894882	0.592536
ACVR1B	355.5075005	316.6842285	0.890794788	-0.166835	RPS10P2	2.4894796	1.111172731	2.240407391	1.163761	PAGE3	1.100642416	1.659653067	1.507894882	0.592536
SMNDC1	308.1798766	274.4596647	0.890582694	-0.167179	PDCL3P6	2.4894796	1.111172731	2.240407391	1.163761	SLC10A5P1	1.100642416	1.659653067	1.507894882	0.592536
MDH2	1136.963616	1012.278358	0.890334874	-0.16758	NPIPA3	2.4894796	1.111172731	2.240407391	1.163761	CLEC6A	1.100642416	1.659653067	1.507894882	0.592536
COL6A1	4285.901569	3814.655987	0.890047502	-0.168046	BMS1P11	2.4894796	1.111172731	2.240407391	1.163761	SNORA22B	1.100642416	1.659653067	1.507894882	0.592536
PIGK	752.8394127	670.0371571	0.890013389	-0.168101	GAS1RR	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.73	1.100642416	1.659653067	1.507894882	0.592536
HDHD5	232.2355498	206.678128	0.889950433	-0.168203	ACTG1P24	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.74	1.100642416	1.659653067	1.507894882	0.592536
TMCC3	380.822276	338.9076831	0.889936604	-0.168226	ACTG1P12	2.4894796	1.111172731	2.240407391	1.163761	SNORA5A	1.100642416	1.659653067	1.507894882	0.592536
AGO3	1001.584599	891.1605306	0.889750633	-0.168527	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.78	1.100642416	1.659653067	1.507894882	0.592536
RAP1GAP	712.1156433	633.3684569	0.88941798	-0.169067	MAGOH-DT	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.90	1.100642416	1.659653067	1.507894882	0.592536
VPS26C	286.1670282	254.4585555	0.889195925	-0.169427	PRELID1P5	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.97	1.100642416	1.659653067	1.507894882	0.592536
SOX12	359.9100701	320.0177467	0.889160302	-0.169485	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	MIR186	1.100642416	1.659653067	1.507894882	0.592536
PPP1R15B	1586.025722	1410.078196	0.889063889	-0.169641	PNRC2P1	2.4894796	1.111172731	2.240407391	1.163761	IGLV6-57	1.100642416	1.659653067	1.507894882	0.592536
PPP2CB	912.4325631	811.1560939	0.889003886	-0.169738	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	TRGV1	1.100642416	1.659653067	1.507894882	0.592536
USP51	156.2912231	138.8965914	0.88870372	-0.170226	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	TRAV24	1.100642416	1.659653067	1.507894882	0.592536
TMED8	220.1284833	195.5664007	0.888419335	-0.170687	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	TRAV26-2	1.100642416	1.659653067	1.507894882	0.592536
CDCA3	27.51606041	24.44580009	0.888419335	-0.170687	LINC00858	2.4894796	1.111172731	2.240407391	1.163761	TRAV36DV7	1.100642416	1.659653067	1.507894882	0.592536
PSEN2	27.51606041	24.44580009	0.888419335	-0.170687	RGS17P1	2.4894796	1.111172731	2.240407391	1.163761	TRDC	1.100642416	1.659653067	1.507894882	0.592536
CADM3	27.51606041	24.44580009	0.888419335	-0.170687	EIF2S2P2	2.4894796	1.111172731	2.240407391	1.163761	RNU6-750P	1.100642416	1.659653067	1.507894882	0.592536
GLRX	27.51606041	24.44580009	0.888419335	-0.170687	HSPD1P6	2.4894796	1.111172731	2.240407391	1.163761	Y_RNA.100	1.100642416	1.659653067	1.507894882	0.592536
LIPT2-AS1	82.54818122	73.33740027	0.888419335	-0.170687	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	U3.3	1.100642416	1.659653067	1.507894882	0.592536
TOR1AIP1	1310.865118	1164.509023	0.888351522	-0.170797	SMYD3-IT1	2.4894796	1.111172731	2.240407391	1.163761	PPP1R14BP2	1.100642416	1.659653067	1.507894882	0.592536
AZI2	650.479668	577.8098203	0.888282676	-0.170909	THAP12P1	2.4894796	1.111172731	2.240407391	1.163761	YWHAZP2	1.100642416	1.659653067	1.507894882	0.592536
TEX2	1839.173478	1633.423915	0.888129334	-0.171158	YY2	2.4894796	1.111172731	2.240407391	1.163761	PP1P	1.100642416	1.659653067	1.507894882	0.592536
ABRAXAS2	292.7708827	260.0144192	0.888115706	-0.17118	LINC01090	2.4894796	1.111172731	2.240407391	1.163761	RPS2P17	1.100642416	1.659653067	1.507894882	0.592536
DNAAF11	411.6402637	365.5758286	0.88809541	-0.171213	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	KRT222	1.100642416	1.659653067	1.507894882	0.592536
FAM168A	887.1177875	787.8214666	0.888068617	-0.171257	DNAJB6P3	2.4894796	1.111172731	2.240407391	1.163761	RPL36P7	1.100642416	1.659653067	1.507894882	0.592536
ANKRD9	63.83726015	56.6698093	0.887723082	-0.171818	FAM192BP	2.4894796	1.111172731	2.240407391	1.163761	PHB1P7	1.100642416	1.659653067	1.507894882	0.592536
HFM1	63.83726015	56.6698093	0.887723082	-0.171818	ACBD3-AS1	2.4894796	1.111172731	2.240407391	1.163761	FAM209B	1.100642416	1.659653067	1.507894882	0.592536
POLR2K	291.6702403	258.9032464	0.887657397	-0.171925	LNCTAM34A	2.4894796	1.111172731	2.240407391	1.163761	RPS3AP20	1.100642416	1.659653067	1.507894882	0.592536
PLEKHF2	336.7965794	298.9054648	0.887495548	-0.172188	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	DNAJB1P1	1.100642416	1.659653067	1.507894882	0.592536
TFAM	309.280519	274.4596647	0.88741336	-0.172322	LINC02889	2.4894796	1.111172731	2.240407391	1.163761	CHCHD4P4	1.100642416	1.659653067	1.507894882	0.592536
PPP1R8	817.7773153	725.5957936	0.887277967	-0.172542	KRT18P5	2.4894796	1.111172731	2.240407391	1.163761	MRPL23	1.100642416	1.659653067	1.507894882	0.592536
TTC26	145.284799	128.8960368	0.887195617	-0.172676	CTAGE9	2.4894796	1.111172731	2.240407391	1.163761	PRCD	1.100642416	1.659653067	1.507894882	0.592536
EVI5	1251.430427	1110.061559	0.887034177	-0.172938	ST13P7	2.4894796	1.111172731	2.240407391	1.163761	ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
TOMM70	1123.755907	996.7219401	0.886955907	-0.173066	LINC02918	2.4894796	1.111172731	2.240407391	1.163761	FOXI3	1.100642416	1.659653067	1.507894882	0.592536
MZT2A	117.7687385	104.4502368	0.886909702	-0.173141	RNU7-119P	2.4894796	1.111172731	2.240407391	1.163761	ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
WDR91	316.9850159	281.1267011	0.88687694	-0.173194	RPL21P39	2.4894796	1.111172731	2.240407391	1.163761	LINC01020	1.100642416	1.659653067	1.507894882	0.592536
ZNF790	280.6638162	248.9026918	0.8868357	-0.173261	ENSG000002	2.4894796	1.111172731	2.240407391	1.163761	ANKRD20A1	1.100642416	1.659653067	1.507894882	0.592536
CFLAR	1466.055699	1300.072096	0.886782199	-0.173348	RPL5P1	2.4894796	1.111172731	2.240407391	1.163761	RSC1A1	1.100642416	1.659653067	1.507894882	0.592536
ZNF417	624.06425	553.3640203	0.886710015	-0.173466	RN7SL809P	2.4894796	1.111172731	2.240407391	1.163761	ST13P20	1.100642416	1.659653067	1.507894882	0.592536
KLHL7	424.8479727	376.687556	0.886640823	-0.173578	RPL29P26	2.4894796	1.111172731	2.240407391	1.163761	R3HDM2P2	1.100642416	1.659653067	1.507894882	0.592536
PCSK5	487.5845904	432.2461925	0.886505031	-0.173799	SLC5A4-AS1	2.4894796	1.111172731	2.240407391	1.163761	PSMC1P11	1.100642416	1.659653067	1.507894882	0.592536
METTL16	621.8629652	551.1416748	0.886275121	-0.174173	ENO1P3	2.4894796	1.111172731	2.240407391	1.163761	HSPD1P16	1.100642416	1.659653067	1.507894882	0.592536
POLR1G	99.05781747	87.78264578	0.886175852	-0.174335	GATA2-AS1	2.4894796	1.111172731	2.240407391	1.163761	ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
APH1B	152.9892959	135.5630732	0.886095151	-0.174466	MALINC1	2.4894796	1.111172731	2.240407391	1.163761	ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
CRELD1	53.9314784	47.78042745	0.885946925	-0.174708	STARD4-AS	2.4894796	1.111172731	2.240407391	1.163761	HNRNPA1P1	1.100642416	1.659653067	1.507894882	0.592536

RNF14	367.614567	325.5736103	0.885638491	-0.17521
KATNA1	313.6830886	277.7931829	0.885585462	-0.175297
SSH1	1021.396162	904.4946034	0.88554729	-0.175359
MRPL15	277.3618889	245.5691736	0.885374608	-0.17564
SRSF4	1559.610304	1380.076532	0.884885493	-0.176437
AKTIP	311.4818038	275.5708374	0.884709264	-0.176725
DDX50	551.4218506	487.8048291	0.884630938	-0.176852
SLC24A1	248.7451861	220.0122008	0.884488276	-0.177085
FUNDC2	248.7451861	220.0122008	0.884488276	-0.177085
PANK1	133.1777324	117.7843095	0.88441444	-0.177206
RAB2B	701.1092192	620.0343841	0.884362047	-0.177291
ARHGEF12	3287.618897	2906.827865	0.884174217	-0.177597
CRTAP	1168.882246	1033.39064	0.884084469	-0.177744
ABLIM3	194.8137077	172.2317734	0.884084469	-0.177744
SMIM19	230.034265	203.3446099	0.883975306	-0.177922
LMNA	928.9421994	821.1566485	0.883969583	-0.177931
ZNF181	318.0856583	281.1267011	0.883808162	-0.178195
FARP1	1819.361914	1607.866942	0.883753216	-0.178285
REV1	1658.668121	1465.636833	0.883622717	-0.178498
MAVS	1003.785884	886.7158397	0.883371498	-0.178908
PDP2	158.4925079	140.0077642	0.883371498	-0.178908
SPATA1	44.02569665	38.8910456	0.883371498	-0.178908
GRIK2	105.661672	93.33850944	0.883371498	-0.178908
NAPRT	17.61027866	15.55641824	0.883371498	-0.178908
SRC	17.61027866	15.55641824	0.883371498	-0.178908
EIF4EBP3	17.61027866	15.55641824	0.883371498	-0.178908
SGSM3	8.80513933	7.77820912	0.883371498	-0.178908
CENPH	8.80513933	7.77820912	0.883371498	-0.178908
PFN4	8.80513933	7.77820912	0.883371498	-0.178908
TCERG1L	8.80513933	7.77820912	0.883371498	-0.178908
GP5	8.80513933	7.77820912	0.883371498	-0.178908
TRAV38-1	8.80513933	7.77820912	0.883371498	-0.178908
RPS24P8	8.80513933	7.77820912	0.883371498	-0.178908
EXOSC3P1	8.80513933	7.77820912	0.883371498	-0.178908
ENSG000002	8.80513933	7.77820912	0.883371498	-0.178908
CDH7	26.41541799	23.33462736	0.883371498	-0.178908
LAT2	26.41541799	23.33462736	0.883371498	-0.178908
ADI1	640.5738863	565.5869203	0.882937835	-0.179616
SETD5	4491.721701	3965.775479	0.882907656	-0.179666
RAB1B	815.5760305	720.03993	0.882860583	-0.179742
PLXDC1	263.0535375	232.2351009	0.882843482	-0.17977
MICALL1	236.6381195	208.9004735	0.88278454	-0.179867
UBE2V2	236.6381195	208.9004735	0.88278454	-0.179867
ATP6V1B2	761.6445521	672.2595025	0.882642042	-0.1801
SPATA2	367.614567	324.4624376	0.882615834	-0.180142
METTL21A	183.8072835	162.2312188	0.882615834	-0.180142
TCOF1	332.3940097	293.3496011	0.882535763	-0.180273
ADGRE2	139.7815869	123.3401732	0.882377829	-0.180532
FUT10	139.7815869	123.3401732	0.882377829	-0.180532
TXK	122.1713082	107.7837549	0.882234598	-0.180766
TMEM242	122.1713082	107.7837549	0.882234598	-0.180766
CDC42BPA	5895.040782	5200.288383	0.882146295	-0.18091
TRAF1	104.5610295	92.22733671	0.88204312	-0.181079
TMEM126B	356.6081429	314.461883	0.881813524	-0.181454
ACTR5	260.8522527	230.0127554	0.881774081	-0.181519
TAX1BP1	1928.325513	1700.094279	0.881642787	-0.181734
UBN1	1057.717362	932.2739217	0.881401738	-0.182128
EPS15	2947.520391	2597.921846	0.881392324	-0.182144
MS4A8	69.34047223	61.11450023	0.881368388	-0.182183
MYCL	60.5353329	53.33629111	0.881077027	-0.18266
PHLPP1	335.6959937	295.5719466	0.880475198	-0.183646
KIAA0930	430.3511848	378.9099014	0.880466732	-0.18366
CFAP251	180.5053563	158.8977006	0.880293548	-0.183943
TMTC2	704.4111464	620.0343841	0.8802166	-0.18407
SYPL1	806.7708911	710.0393754	0.880100389	-0.18426
KIF3B	1037.905799	913.3839852	0.880025901	-0.184382
STAG1	1852.381187	1630.090397	0.879997275	-0.184429
ZNF850	274.0599617	241.1244827	0.879823821	-0.184713
TRIM68	231.1349074	203.3446099	0.8797659	-0.184808
IL6ST	4859.336268	4274.681498	0.879684233	-0.184942
TAS2R5	111.164884	97.78320037	0.879623104	-0.185043
PPP3CC	324.6895128	285.571392	0.879521453	-0.185209
KMT2D	13553.31071	11919.54989	0.879456698	-0.185316
UBE2E2	597.648832	525.584702	0.879420613	-0.185375
HELQ	691.2034374	607.8114841	0.879352519	-0.185486
CEP170	102.3597447	90.00499125	0.879300662	-0.185572
GOLGA8A	102.3597447	90.00499125	0.879300662	-0.185572
ZNF620	102.3597447	90.00499125	0.879300662	-0.185572
MYO3B	34.11991491	30.00166375	0.879300662	-0.185572
PCAT7	34.11991491	30.00166375	0.879300662	-0.185572
PRKRA	604.2526865	531.1405656	0.879004061	-0.186058
ZNF384	1266.839421	1113.395077	0.878876248	-0.186268
PAK3	59.43469048	52.22511838	0.878697575	-0.186561
RFC4	178.3040714	156.6753551	0.878697575	-0.186561
VCPIP1	2518.269848	2212.344908	0.878517808	-0.186857
UBE2K	651.5803104	572.2539567	0.878255447	-0.187287
GLO1	4821.914426	4234.67928	0.878215353	-0.187353
KCTD12	346.7023611	304.4613284	0.878163412	-0.187439
PITRM1	1916.218447	1682.315515	0.877935143	-0.187814
ERG28	329.0920825	288.9049102	0.877884718	-0.187897
TMEM65	329.0920825	288.9049102	0.877884718	-0.187897
IFI44	253.1477557	222.2345463	0.877884718	-0.187897
LPCAT1	50.62955115	44.44690926	0.877884718	-0.187897
ADORA1	25.31477557	22.22345463	0.877884718	-0.187897
ZNF470	320.2869431	281.1267011	0.877733879	-0.188145
ZFX	1474.860838	1294.516232	0.877720934	-0.188166
UBE2D2	219.0278408	192.2328825	0.877664144	-0.188259
ETV5	193.7130653	170.0094279	0.877635319	-0.188307
ATP7A	1448.44542	1271.181605	0.877617884	-0.188335
ZNF791	648.2783832	568.9204385	0.877586625	-0.188387
CTSZ	1700.492533	1492.304978	0.877572203	-0.18841
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
PCED1B-AS	2.4894796	1.111172731	2.240407391	1.163761
RBMXP4	2.4894796	1.111172731	2.240407391	1.163761
SRD5A3-AS	2.4894796	1.111172731	2.240407391	1.163761
HS3ST5	2.4894796	1.111172731	2.240407391	1.163761
LINC00923	2.4894796	1.111172731	2.240407391	1.163761
UQCRB-AS1	2.4894796	1.111172731	2.240407391	1.163761
PPIAP41	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
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EIF3LP1	2.4894796	1.111172731	2.240407391	1.163761
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LINC00930	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
FOXN3-AS1	2.4894796	1.111172731	2.240407391	1.163761
SLC30A4-AS	2.4894796	1.111172731	2.240407391	1.163761
DCAF13P3	2.4894796	1.111172731	2.240407391	1.163761
KCNJ18	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
LINC02128	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
MTCO1P40	2.4894796	1.111172731	2.240407391	1.163761
ATP5F1AP3	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
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CEP192-DT	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
NFE2L3P1	2.4894796	1.111172731	2.240407391	1.163761
TAF9P3	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
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CEP192-DT	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
TAS2R6P	2.4894796	1.111172731	2.240407391	1.163761
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LINC02804	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002	2.4894796	1.111172731	2.240407391	1.163761
PDE4DIPP5	2.4894796	1.111172731	2.240407391	1.163761
ENSG000002

AAMDC	117.7687385	103.339064	0.877474492	-0.188571
FKTN	462.2698148	405.578047	0.877362168	-0.188756
SEH1L	621.8629652	545.5858111	0.877340896	-0.188791
TUFT1	252.0471133	221.1233736	0.877309685	-0.188842
RPRD2	2693.271993	2362.353227	0.877131323	-0.189135
ARNT	1619.044994	1420.078751	0.877108886	-0.189172
ABCB10	326.8907976	286.6825647	0.876997966	-0.189355
AP3S1	125.4732355	110.0061004	0.876729607	-0.189796
MPZL3	83.64882364	73.33740027	0.876729607	-0.189796
FAM162B	41.82441182	36.66870014	0.876729607	-0.189796
DUSP23	100.1584599	87.78264578	0.876437656	-0.190277
PKD2L2-DT	58.33404806	51.11394565	0.876228332	-0.190621
RTN4	2071.409027	1814.54507	0.87599554	-0.191005
IL2RA	74.84368431	65.55919115	0.875948208	-0.191083
ADSS2	1072.025713	938.9409581	0.875856751	-0.191233
ZNF24	654.8822377	573.3651294	0.87552402	-0.191781
RNF24	140.8822293	123.3401732	0.875484252	-0.191847
BTN3A2	206.9207743	181.1211552	0.875316439	-0.192123
POGZ	5710.132856	4998.054946	0.875295737	-0.192158
HIF1AN	487.5845904	426.6903289	0.875110365	-0.192463
NBPF2P	33.01927249	28.89049102	0.874958436	-0.192714
ACTA1	16.50963624	14.44524551	0.874958436	-0.192714
TMEM132D	16.50963624	14.44524551	0.874958436	-0.192714
C10orf95-AS1	16.50963624	14.44524551	0.874958436	-0.192714
SLC37A2	49.52890873	43.33573653	0.874958436	-0.192714
RPS11P5	49.52890873	43.33573653	0.874958436	-0.192714
MRGBP	82.54818122	72.22622754	0.874958436	-0.192714
STAG2	2691.070708	2354.575018	0.874958436	-0.192714
PLEKHA3	602.0514017	526.6958747	0.874835393	-0.192917
PIP5K1A	633.9700318	554.475193	0.874607892	-0.193292
SLFN11	402.8351244	352.2417559	0.87440676	-0.193624
MCFD2	263.0535375	230.0127554	0.874395219	-0.193643
CASP3	123.2719506	107.7837549	0.874357503	-0.193705
RAB7A	1263.537494	1104.505695	0.87413765	-0.194068
VPS26A	434.7537544	380.0210742	0.87410648	-0.194119
FKBP10	359.9100701	314.461883	0.873723491	-0.194751
SORBS3	1069.824429	934.4962671	0.873504327	-0.195113
YPEL5	587.7430503	513.3618019	0.873445976	-0.19521
FAM118B	138.6809445	121.1178277	0.873355948	-0.195358
GDPD3	40.7237694	35.55752741	0.873139396	-0.195716
CANX	252.0471133	220.0122008	0.872901093	-0.19611
CAMK2G	617.4603955	538.9187747	0.872798934	-0.196279
FBXL4	576.7366261	503.3612473	0.872774893	-0.196318
UGGT1	1655.366194	1444.524551	0.872631419	-0.196556
RIDA	154.0899383	134.4519005	0.872554704	-0.196683
PPFIBP1	1199.700234	1046.724713	0.872488546	-0.196792
PHKA1	469.9743118	410.0227379	0.872436488	-0.196878
SLC16A4	113.3661689	98.8943731	0.872344669	-0.19703
FAHD1	121.0706658	105.5614095	0.871899141	-0.197767
ZNF391	48.42826632	42.22456379	0.871899141	-0.197767
ANKRD11P2	24.21413316	21.1122819	0.871899141	-0.197767
PTPN4	516.2012932	450.0249562	0.871801296	-0.197929
ATRNL1	370.9164943	323.3512648	0.87176297	-0.197992
IKBKE	177.203429	154.4530097	0.871614113	-0.198239
SYNJ2	1690.586751	1473.415042	0.87154063	-0.19836
COPB1	2052.698106	1788.988098	0.871530057	-0.198378
PFDN1	128.7751627	112.2284459	0.871506924	-0.198416
DCBLD1	160.6937928	140.0077642	0.871270519	-0.198807
PCYOX1	1445.143493	1258.958705	0.87116519	-0.198982
EDF1	858.5010847	747.8192483	0.871075484	-0.19913
FAM114A2	361.0107125	314.461883	0.8710597	-0.199156
PPA1	336.7965794	293.3496011	0.870999348	-0.199256
HDGF	616.3597531	536.6964293	0.870751905	-0.199666
YEATS2	1463.854414	1274.515123	0.870657021	-0.199824
SEPTIN9	2127.541791	1852.324943	0.870640921	-0.19985
MPHOSPH6	119.9700234	104.4502368	0.870636129	-0.199858
EML1	359.9100701	313.3507103	0.870636129	-0.199858
CSNK2A1	1933.828725	1683.426688	0.870514884	-0.200059
SUMF2	559.1263475	486.6936564	0.870453805	-0.20016
KANK1	1460.552486	1271.181605	0.870342981	-0.200344
P2RY12	31.91863007	27.77931829	0.870316747	-0.200388
COX14	31.91863007	27.77931829	0.870316747	-0.200388
CNOT6LP1	31.91863007	27.77931829	0.870316747	-0.200388
UQCC1	390.7280578	340.0188558	0.870218683	-0.20055
CBX1	725.3233523	631.1461115	0.870158267	-0.20065
CTNS	199.2162773	173.3429461	0.870124412	-0.200706
AREL1	1019.194877	886.7158397	0.870015989	-0.200886
CCP110	994.9807443	865.6035578	0.86997016	-0.200962
ACSS3	206.9207743	180.0099825	0.869946399	-0.201002
CPOX	103.4603871	90.00499125	0.869946399	-0.201002
ATP9B	690.102795	600.033275	0.869483908	-0.201769
DNAJC27	118.869381	103.339064	0.869349728	-0.201991
SH3BGRL2	205.8201318	178.8988098	0.869199763	-0.20224
CHP1	458.9678876	398.9110106	0.869147976	-0.202326
ZNF718	86.95075089	75.55974574	0.868994747	-0.202581
GTPBP4	679.0963709	590.0327204	0.868849762	-0.202821
SDC3	552.522493	480.02662	0.868791092	-0.202919
CYP4V2	283.9657434	246.6803464	0.868697553	-0.203074
LIN54	920.13706	798.9331939	0.868276291	-0.203774
PPP1R35	55.03212081	47.78042745	0.868227987	-0.203854
ARHGAP1	895.9229269	777.820912	0.868178376	-0.203937
NCK1	353.3062156	306.6836739	0.868039282	-0.204168
LAPTM5	478.7794511	415.5786016	0.867995902	-0.20424
ARSB	180.5053563	156.6753551	0.867981751	-0.204263
RPL7AP6	62.73661773	54.44746384	0.867873752	-0.204443
CDH1	3907.280578	3390.188004	0.867659216	-0.2048
BTG2	493.0878025	427.8015016	0.867597007	-0.204903
TEX9	219.0278408	190.0105371	0.867517738	-0.205035
CLNS1A	695.6060071	603.3667932	0.86739733	-0.205235
PARG	562.4282747	487.8048291	0.867319178	-0.205365
G3BP2	2451.130661	2125.673435	0.867221592	-0.205527
POLR1F	263.0550111	117.7843095	2.233362085	1.159217
MACROH2A	1022.346289	457.8031654	2.233156882	1.159085
TPMT	721.1192575	323.3512648	2.230142065	1.157136
CFAP418	284.6305009	127.7848641	2.227419522	1.155373
STK17B	425.7010116	191.1217098	2.227381767	1.155349
ZBTB24	546.8556855	245.5691736	2.226890604	1.155031
PLEKHG1	1076.285014	483.3601382	2.226673093	1.15489
YAE1	126.1336331	56.6698093	2.225764205	1.154301
PDAP1	630.6681654	283.3490465	2.225764205	1.154301
SAMSN1	103.7283167	46.66925472	2.22262638	1.152265
BMS1	913.6390132	411.1339106	2.222241926	1.152016
PTPN2	806.5913904	363.3534832	2.219853195	1.150464
MUCL1	88.79143907	40.00221833	2.219662878	1.150341
HEG1	707.842033	318.9065739	2.219590598	1.150294
PGP	253.9269192	114.4507913	2.218655863	1.149686
CDC26	83.81247987	37.77987287	2.218442613	1.149547
PPP1R3E	83.81247987	37.77987287	2.218442613	1.149547
STEEP1	229.0321232	103.339064	2.216316989	1.148164
ABAT	662.2015736	298.9054648	2.215421435	1.147581
HACD2	1161.757147	524.4735292	2.215092053	1.147367
PRDM4	1294.529392	584.4768567	2.214851413	1.14721
MAPK8	927.7460643	418.9121198	2.214655582	1.147082
DNAJC7	1689.526822	763.3756665	2.213231173	1.146154
ZW10	464.7028587	210.0116462	2.21274804	1.145839
SPCS2	658.8822675	297.794292	2.212541627	1.145705
ZNF253	449.7659811	203.3446099	2.211841176	1.145248
FNBP1L	2860.412061	1293.405059	2.211536162	1.145049
CCT4	2454.626886	1110.061559	2.21125294	1.144864
FAM32A	181.7320108	82.22678213	2.210131615	1.144132
NES	419.8922259	190.0105371	2.20983653	1.14394
RCOR1	927.7460643	420.0232925	2.208796705	1.143261
LANCL1	2130.164711	964.4979309	2.208573645	1.143115
LNPK	677.1384512	306.6836739	2.207937719	1.142699
CCDC126	164.3056536	74.44857301	2.206968475	1.142066
ZNF268	875.4669927	396.6886651	2.206937252	1.142046
NT5C3B	326.1218276	147.7859733	2.206717054	1.141902
PARP1	6514.968113	2952.385947	2.206679015	1.141877
COL1A1	11197.67924	5074.725864	2.206558451	1.141798
MTMR6	529.4293283	240.01331	2.205833203	1.141324
BAG4	786.6755536	356.6864468	2.20551008	1.141112
PYGL	830.6563599	376.687556	2.205160077	1.140883
KLHL15	1065.497269	483.3601382	2.204354858	1.140356
XRCC5	8911.507142	4043.55757	2.203877894	1.140044
PAM	3891.056615	1765.65347	2.203748743	1.13996
ADORA1	48.95976547	22.22345463	2.203067268	1.139514
HOXB7	48.95976547	22.22345463	2.203067268	1.139514
DUSP23	193.3495823	87.78264578	2.202594608	1.139204
PHF20L1	1565.882668	711.1505481	2.201900389	1.138749
IQCD	183.3916639	83.33795486	2.200577926	1.137882
XPOT	1784.956873	811.1560939	2.200509725	1.137838
NR2C2AP	136.921378	62.22567296	2.200400116	1.137766
WDR89	498.7257466	226.6792372	2.200138631	1.137594
PDK4	989.9830543	450.0249562	2.199840344	1.137399
LOX	224.8829905	102.2278913	2.199820301	1.137386
ADRA2B	43.98080627	20.00110917	2.198918365	1.136794
PHIP	5270.228313	2397.910754	2.197841727	1.136087
USP3	671.3296655	305.5725011	2.196957066	1.135507
GLB1L3	41.49132667	18.88993643	2.196477834	1.135192
DPY19L1P1	41.49132667	18.88993643	2.196477834	1.135192
NDUFS5	827.3370538	376.687556	2.196348249	1.135107
ZNF239	160.9863475	73.33740027	2.195146636	1.134317
XRCC6	2618.932539	1193.399514	2.194514502	1.133902
ANK2	587.5171856	267.7926283	2.19392591	1.133515
ATP5PD	1131.053565	515.5841474	2.193732237	1.133387
NUP210	4324.226065	1972.331598	2.19244374	1.13254
AEN	75.51421454	34.44635467	2.192226587	1.132397
COX6A1	263.0550111	120.006655	2.192003528	1.13225
ZFP1	148.5389495	67.78153662	2.191436738	1.131877
AK2	1409.87528	643.3690115	2.191394449	1.131849
PTP4A2	1370.873433	625.5902478	2.191328011	1.131805
GZF1	518.6415834	236.6797918	2.191321783	1.131801
EBP	73.02473494	33.33518194	2.19062056	1.13134
PCDHB2	36.51236747	16.66759097	2.19062056	1.13134
SRSF10	1523.561515	695.5941299	2.190302433	1.13113
CPSF2	2257.957997	1031.168295	2.189708517	1.130739
FANCC	459.7238995	210.0116462	2.189040026	1.130298
CHCHD3	386.6991645	176.6764643	2.188741812	1.130102
LIG4	520.3012364	237.7909645	2.188061424	1.129653
BCCIP	1093.711371	500.0277291	2.187301438	1.129152
RPL41P1	34.02288787	15.55641824	2.187064358	1.128996
SMIM17	34.02288787	15.55641824	2.187064358	1.128996
RASSF5	199.158368	91.11616398	2.185763308	1.128137
ISCA1	393.3377768	180.0099825	2.18508869	1.127692
HSP90AA1	27210.01203	12458.46866	2.184057508	1.127011
MEX3B	257.2462253	117.7843095	2.184044941	1.127003
TOB2P1	31.53340827	14.44524551	2.182961048	1.126286
LCN12	31.53340827	14.44524551	2.182961048	1.126286
TMEM131L	1091.221891	500.0277291	2.182322755	1.125864
HSF2BP	60.57733694	27.77931829	2.180663194	1.124767
DLC1	179.2425312	82.22678213	2.17985584	1.124233
RPL14	767.5895434	352.2417559	2.179155454	1.123769
NUBP1	467.1923383	214.4563372	2.178496306	1.123333
PDIA6	7447.693137	3419.078495	2.178274979	1.123186
RPL26P19	232.3514293	106.6725822	2.178173852	1.123119
PRSS27	29.04392867	13.33407278	2.178173852	1.123119
RAMACL	29.04392867	13.33407278	2.178173852	1.123119
SRP14	578.3890938	265.5702828	2.177913461	1.122947
PDCL3	895.3828295	411.1339106	2.177837455	1.122896
MRPL51	1083.753453	497.8053837	2.177062539	1.122383
MTA2	1963.369578	902.2722579	2.176027868	1.121697
SORBS2	1232.292402	566.698093	2.174513056	1.120692
PATE4	1.100642416	1.659653067	1.507894882	0.592536
LINC03062	1.100642416	1.659653067	1.507894882	0.592536
LINC01684	1.100642416	1.659653067	1.507894882	0.592536
UNC5B-AS1	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
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RNU7-57P	1.100642416	1.659653067	1.507894882	0.592536
CLRN1-AS1	1.100642416	1.659653067	1.507894882	0.592536
LINC01119	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
ASB14	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
RPL23AP10	1.100642416	1.659653067	1.507894882	0.592536
HNRNPA1P2	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
RN7SL801P	1.100642416	1.659653067	1.507894882	0.592536
SETP6	1.100642416	1.659653067	1.507894882	0.592536
ACTG1P20	1.100642416	1.659653067	1.507894882	0.592536
RPL21P54	1.100642416	1.659653067	1.507894882	0.592536
RPL5P13	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
RN7SL16P	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
RPL36AP19	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
TMEM35B	1.100642416	1.659653067	1.507894882	0.592536
RPS2P41	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
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LINC01213	1.100642416	1.659653067	1.507894882	0.592536
KCNK15-AS1	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
DACT3-AS1	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
GPR176-DT	1.100642416	1.659653067	1.507894882	0.592536
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SYBU-AS1	1.100642416	1.659653067	1.507894882	0.592536
GAPDHP40	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
USP17L22	1.100642416	1.659653067	1.507894882	0.592536
NDUFB2P1	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
LINC01234	1.100642416	1.659653067	1.507894882	0.592536
LINC02021	1.100642416	1.659653067	1.507894882	0.592536
LGALS16	1.100642416	1.659653067	1.507894882	0.592536
TRIM51CP	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
SALL4P1	1.100642416	1.659653067	1.507894882	0.592536
UGT2B29P	1.100642416	1.659653067	1.507894882	0.592536
LINC02492	1.100642416	1.659653067	1.507894882	0.592536
METTL21EP	1.100642416	1.659653067	1.507894882	0.592536
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FAM76AP1	1.100642416	1.659653067	1.507894882	0.592536
LINC02228	1.100642416	1.659653067	1.507894882	0.592536
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LINC02278	1.100642416	1.659653067	1.507894882	0.592536
RNA5SP217	1.100642416	1.659653067	1.507894882	0.592536
RNU7-71P	1.100642416	1.659653067	1.507894882	0.592536
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KCNIP1-OT1	1.100642416	1.659653067	1.507894882	0.592536
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GUSBP14	1.100642416	1.659653067	1.507894882	0.592536
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MAPRE1P1	1.100642416	1.659653067	1.507894882	0.592536
RBPMS-AS1	1.100642416	1.659653067	1.507894882	0.592536
LINC01933	1.100642416	1.659653067	1.507894882	0.592536
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NAV2-AS2	1.100642416	1.659653067	1.507894882	0.592536
PTP4A2P2	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
ARMS2	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
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TPBGL-AS1	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
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HSPA8P14	1.100642416	1.659653067	1.507894882	0.592536
EIF4A1P4	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
NF1P4	1.100642416	1.659653067	1.507894882	0.592536
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ANKRD34C-	1.100642416	1.659653067	1.507894882	0.592536
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LINC02568	1.100642416	1.659653067	1.507894882	0.592536

ZBTB6	358.8094277	311.1283648	0.867113127	-0.205708
TTC39A	576.7366261	500.0277291	0.866994927	-0.205905
SUFU	217.9271984	188.8993643	0.866800315	-0.206228
EHBP1	746.2355583	646.7025297	0.866619826	-0.206529
DERA	124.372593	107.7837549	0.866619826	-0.206529
PCDHGB6	139.7815869	121.1178277	0.86647913	-0.206763
PDIK1L	147.4860838	127.7848641	0.866419806	-0.206862
LSM3	155.1905807	134.4519005	0.866366373	-0.206951
ZMYND8	2061.503246	1785.654579	0.866190525	-0.207244
DDX60	1247.027858	1080.059895	0.866107271	-0.207382
PHF8	1879.897247	1627.868052	0.86593459	-0.20767
ZNF440	324.6895128	281.1267011	0.865832403	-0.20784
SHLD3	69.34047223	60.0033275	0.865343508	-0.208655
FOXQ1	30.81798766	26.66814555	0.865343508	-0.208655
SLC25A24	15.40899383	13.33407278	0.865343508	-0.208655
FGF14	15.40899383	13.33407278	0.865343508	-0.208655
RAET1G	15.40899383	13.33407278	0.865343508	-0.208655
TRAJ25	15.40899383	13.33407278	0.865343508	-0.208655
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OCSTAMP	7.704496914	6.667036389	0.865343508	-0.208655
GRM2	7.704496914	6.667036389	0.865343508	-0.208655
RPL36P14	7.704496914	6.667036389	0.865343508	-0.208655
ITLN1	7.704496914	6.667036389	0.865343508	-0.208655
IGLV2-14	7.704496914	6.667036389	0.865343508	-0.208655
ENSG000002	7.704496914	6.667036389	0.865343508	-0.208655
RPS19P3	7.704496914	6.667036389	0.865343508	-0.208655
ENSG000002	7.704496914	6.667036389	0.865343508	-0.208655
HSP90B2P	7.704496914	6.667036389	0.865343508	-0.208655
NARF-IT1	7.704496914	6.667036389	0.865343508	-0.208655
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C9orf43	46.22698148	40.00221833	0.865343508	-0.208655
NUDT21	46.22698148	40.00221833	0.865343508	-0.208655
GPR143	38.52248457	33.33518194	0.865343508	-0.208655
FAM229B	38.52248457	33.33518194	0.865343508	-0.208655
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ARL8B	599.8501169	518.9176656	0.865078877	-0.209096
TBC1D12	283.9657434	245.5691736	0.864784501	-0.209587
TRIM32	260.8522527	225.5680645	0.864734968	-0.20967
AMER1	474.3768814	410.0227379	0.864339629	-0.21033
GLRX3	259.7516102	224.4568918	0.864121272	-0.210694
CDH2	106.7623144	92.22733671	0.863856664	-0.211136
ATXN1L	571.2334141	493.3606928	0.86367618	-0.211438
SUCLA2	365.4132822	315.5730557	0.863605871	-0.211555
DGKE	266.3554647	230.0127554	0.863555608	-0.211639
ALKBH1	175.0021442	151.1194915	0.863529371	-0.211683
HLF	175.0021442	151.1194915	0.863529371	-0.211683
TBC1D22B	509.5974387	440.0244016	0.863474516	-0.211774
GDF15	319.1863007	275.5708374	0.863354213	-0.211976
GDI2	2058.201318	1776.765198	0.863261131	-0.212131
ADGRG1	567.9314868	490.0271746	0.862827975	-0.212855
ANAPC4	453.4646755	391.1328015	0.862543044	-0.213332
MRPL17	219.0278408	188.8993643	0.862444535	-0.213496
C9orf72	422.6466879	364.4646559	0.862338843	-0.213673
ELMO3	105.661672	91.11616398	0.862338843	-0.213673
CLIP4	716.518213	617.8120387	0.862241919	-0.213835
NCOA3	3397.683139	2929.05132	0.862073125	-0.214118
VEZT	2357.576056	2032.334926	0.862044268	-0.214166
ECD	1054.415435	908.9392943	0.862031477	-0.214188
IL18BP	278.4625313	240.01331	0.861923178	-0.214369
TMEM170B	45.12633907	38.8910456	0.861825852	-0.214532
WARS2-AS1	45.12633907	38.8910456	0.861825852	-0.214532
EEF1B2P3	45.12633907	38.8910456	0.861825852	-0.214532
RBBP9	225.6316953	194.455228	0.861825852	-0.214532
RRP1	119.9700234	103.339064	0.861374043	-0.215288
ATP6V1E1	501.8929418	432.2461925	0.861231861	-0.215526
FAM210B	411.6402637	354.4641013	0.861101628	-0.215745
PRR7	37.42184215	32.22400921	0.861101628	-0.215745
ZNF90	37.42184215	32.22400921	0.861101628	-0.215745
SMYD4	449.0621058	386.6881105	0.861101628	-0.215745
HNRNPK	4157.126406	3579.087368	0.860952258	-0.215995
GAS8	141.9828717	122.2290005	0.860871449	-0.21613
STMP1	351.1049308	302.238983	0.860822382	-0.216213
INTS15	276.2612465	237.7909645	0.86074673	-0.216339
NFKBIA	1020.29552	877.8264578	0.860364905	-0.216979
SPATS2L	953.1563325	820.0454758	0.860347299	-0.217009
ZNF318	2350.972201	2022.334371	0.860211946	-0.217236
GSC	59.43469048	51.11394565	0.860001882	-0.217588
SLC22A4	29.71734524	25.55697282	0.860001882	-0.217588
BCL2L11	348.903646	300.0166375	0.859883928	-0.217786
GTPBP8	170.5995745	146.6748005	0.859760647	-0.217993
HNRNPD	2469.841582	2123.45109	0.859751939	-0.218008
PARP11	311.4818038	267.7926283	0.859737632	-0.218032
ZNF697	140.8822293	121.1178277	0.859709761	-0.218078
BRAP	659.2848074	566.698093	0.859564921	-0.218321
SERINC1	1910.715235	1642.313297	0.859528028	-0.218383
GPD2	399.5331971	343.352374	0.859383842	-0.218625
MATK	51.73019357	44.44690926	0.85920632	-0.218923
DNAJA2	1108.346913	952.2750308	0.859184989	-0.218959
LARP1	2350.972201	2019.000853	0.858794014	-0.219616
TUBD1	213.5246288	183.3435007	0.858652708	-0.219853
P4HA2	257.5503254	221.1233736	0.858563751	-0.220003
RCBTB2	227.8329802	195.5664007	0.858376169	-0.220318
ZBTB34	249.8458285	214.4563372	0.858354684	-0.220354
KBTBD2	734.1284917	630.0349387	0.858207992	-0.220601
RPL24	1548.60388	1328.962587	0.858168189	-0.220668
IDH3B	704.4111464	604.4779659	0.858132312	-0.220728
KAZALD1	22.01284833	18.88993643	0.858132312	-0.220728
STYXL2	22.01284833	18.88993643	0.858132312	-0.220728
POU2AF3	164.3056536	75.55974574	2.174513056	1.120692
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NDUFA1	1848.02369	851.1583123	2.171186797	1.118484
PSMA3	1131.053565	521.140011	2.1703449	1.117924
ABCD3	1598.245903	736.7075209	2.169444261	1.117326
DSTN	2560.014855	1180.065441	2.169383804	1.117285
ZNF512	202.4776741	93.33850944	2.169283347	1.117219
ATRNL1	701.2034207	323.3512648	2.168550109	1.116731
FAM217B	274.6725825	126.6736914	2.168347504	1.116596
WWC1	1021.516463	471.1372381	2.168193002	1.116493
DNA2	1310.296096	604.4779659	2.167649063	1.116131
PDGFD	197.4987149	91.11616398	2.167548614	1.116064
EML1	678.7981043	313.3507103	2.166256792	1.115204
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ICAM2	24.06496947	11.11172731	2.165727145	1.114851
ELOVL7	310.3551235	143.3412824	2.165148228	1.114466
MITF	117.8353677	54.44746384	2.164203058	1.113836
ZC3H18	892.0635234	412.2450834	2.163915494	1.113644
SLITRK5	514.4924507	237.7909645	2.163633306	1.113456
TRIM36	908.660054	420.0232925	2.163356343	1.113271
AP1AR	254.7567457	117.7843095	2.162909022	1.112973
FKBP3	2102.780436	972.27614	2.162739935	1.11286
STAU2	2301.938804	1064.503477	2.162453063	1.112669
PCGF3-AS1	45.64045934	21.1122819	2.161796605	1.112231
GORAB	180.0723577	83.33795486	2.160748461	1.111531
ESRRG	134.4318984	62.22567296	2.160392841	1.111294
CTSB	403.2956952	186.6770189	2.160392841	1.111294
CLINT1	3861.18286	1787.876925	2.159646901	1.110795
RPL31	307.0358173	142.2301096	2.158725871	1.11018
SPCS1	983.344442	455.5808199	2.158441267	1.10999
CTBP1-DT	43.15097974	20.00110917	2.157429339	1.109313
TMEM61	21.57548987	10.00055458	2.157429339	1.109313
DRAIC	21.57548987	10.00055458	2.157429339	1.109313
RBM27	64.7264696	30.00166375	2.157429339	1.109313
SLC20A1	1740.14624	806.711403	2.157086455	1.109084
PCBD1	985.0040951	456.6919926	2.15682366	1.108908
TIMM9	191.6899292	88.89381852	2.156392114	1.10862
RPSA2	83.81247987	38.8910456	2.155058538	1.107727
PAFAH1B1	2769.960968	1285.62685	2.154560608	1.107394
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CYB5R4	311.18495	144.4524551	2.154237876	1.107178
NAA40	268.0339703	124.4513459	2.153724962	1.106834
ZNF230	181.7320108	84.44912759	2.151970257	1.105658
PHACTR4	1550.945791	721.1511027	2.150653012	1.104775
DDHD2	2184.103436	1015.611877	2.150529633	1.104692
ZNF75D	198.3285415	92.22733671	2.15043119	1.104626
TUBGCP3	628.1786858	292.2384284	2.149541692	1.104029
EIF2A	1962.539751	913.3839852	2.148646991	1.103428
NIF3L1	517.8117568	241.1244827	2.147487269	1.10265
POU5F2	38.17202053	17.7787637	2.147057083	1.102361
SNRPC	493.7467874	230.0127554	2.146606115	1.102057
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ELOVL5	2026.436394	944.4968217	2.145519548	1.101327
ZNF347	1675.419771	781.1544302	2.144799679	1.100843
TOMM22	333.5902664	155.5641824	2.144389931	1.100567
BZW2	333.5902664	155.5641824	2.144389931	1.100567
NASP	2491.96908	1162.286677	2.144022752	1.10032
P4HA2	473.8309506	221.1233736	2.14283521	1.099521
MAGOH	433.1694504	202.2334371	2.141927945	1.09891
INCENP	782.526421	365.5758286	2.140531074	1.097969
ADGRL4	228.2022967	106.6725822	2.139277891	1.097124
HNRNPH2	1394.938403	652.2583934	2.13862852	1.096686
ATF7	121.1546739	56.6698093	2.137905092	1.096198
FAM81A	68.87560227	32.22400921	2.137400155	1.095857
GNL2	1726.039189	807.8225758	2.136656292	1.095355
URB2	1120.26582	524.4735292	2.135981623	1.094899
SRP54	1832.256986	857.8253487	2.135932435	1.094866
TIMM17A	621.5400735	291.1272556	2.134942921	1.094197
ALG11	419.8922259	196.6775735	2.134926817	1.094187
UFSP2	702.0332472	328.9071285	2.134442176	1.093859
PTBP3	4903.444986	2297.905209	2.133876092	1.093476
RN7SL4P	99.579184	46.66925472	2.133721325	1.093372
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THBS2-AS1	16.59653067	7.77820912	2.133721325	1.093372
DNAJC9-AS	16.59653067	7.77820912	2.133721325	1.093372
GARS1	1223.16431	573.3651294	2.133307813	1.093092
RANBP17	578.3890938	271.1261465	2.133284087	1.093076
PRPF4	1056.369177	495.5830382	2.131568467	1.091915
ABHD14A	80.49317374	37.77987287	2.130583499	1.091249
ANKRD37	94.6002248	44.44690926	2.128387021	1.089761
ZEB1	1116.116687	524.4735292	2.12807058	1.089546
WDR53	477.1502567	224.4568918	2.125799092	1.088005
MX2	61.40716347	28.89049102	2.125514704	1.087812
RAD9B	30.70358173	14.44524551	2.125514704	1.087812
CCDC107	136.921378	64.44801842	2.12452425	1.08714
NSL1	1151.799228	542.2522929	2.124102089	1.086853
ALG5	287.9498071	135.5630732	2.124102089	1.086853
GAREM2	165.1354801	77.7820912	2.123052718	1.08614
UBE2B	311.18495	146.6748005	2.121597908	1.085151
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CDC42SE2	249.7777865	117.7843095	2.120637184	1.084498
PTDSS1	1767.530516	834.4907213	2.11809487	1.082767
STAG2	4986.427639	2354.575018	2.11776121	1.08254
ARHGAP19	56.42820427	26.66814555	2.115940314	1.081299
TBX5	28.21410213	13.33407278	2.115940314	1.081299
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RPL7AP62	14.10705107	6.667036389	2.115940314	1.081299
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MPC1-DT	1.100642416	1.659653067	1.507894882	0.592536
BEAN1-AS1	1.100642416	1.659653067	1.507894882	0.592536
ECI1-AS1	1.100642416	1.659653067	1.507894882	0.592536
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TC2N	467.7730269	401.133356	0.857538449	-0.221727
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ASH1L	11262.87385	9651.646345	0.856943483	-0.222728
ZHX2	1351.588887	1157.841986	0.85665249	-0.223218
CEACAM5	36.32119974	31.11283648	0.856602665	-0.223302
PLB1	108.9635992	93.33850944	0.856602665	-0.223302
ITIH5	537.1134992	460.0255108	0.856477284	-0.223513
NPIPB5	551.4218506	472.2484109	0.856419473	-0.22361
AFF1	3854.449742	3300.183012	0.856200816	-0.223979
NDUFAF1	137.580302	117.7843095	0.856113177	-0.224127
DDX17	10711.452	9169.39738	0.856036827	-0.224255
IFITM2	817.7773153	700.0388208	0.856026216	-0.224273
PAX8-AS1	50.62955115	43.33573653	0.855937601	-0.224422
PCNT	1791.845854	1533.418369	0.855775828	-0.224695
CKB	1349.387602	1154.508468	0.855579572	-0.225026
SNRPG	129.8758051	111.1172731	0.855565615	-0.22505
THOC5	511.7987236	437.8020562	0.855418421	-0.225298
CSNK1A1	1773.134933	1516.750778	0.855406292	-0.225318
CFDP1	252.0471133	215.5675099	0.855266728	-0.225554
UBA6	1504.578183	1286.738023	0.855215128	-0.225641
ZSWIM3	93.55460539	80.00443666	0.855162996	-0.225729
NFRKB	877.2120058	750.0415937	0.855028874	-0.225955
PARM1	1178.788028	1007.833667	0.854974468	-0.226047
VPS41	1214.008585	1037.835331	0.854883025	-0.226201
EMG1	136.4796596	116.6731368	0.854875643	-0.226214
OCIAD2	287.2676707	245.5691736	0.854844449	-0.226266
VANGL1	452.3640331	386.6881105	0.854816215	-0.226314
ALKBH8	179.4047139	153.3418369	0.854725796	-0.226466
RREB1	2973.935809	2541.252037	0.854508033	-0.226834
ZNF75A	336.7965794	287.7937374	0.854503148	-0.226842
NDC1	543.7173537	464.4702017	0.854249361	-0.227271
TRPA1	28.61670282	24.44580009	0.854249361	-0.227271
TPH1	28.61670282	24.44580009	0.854249361	-0.227271
MYCT1	14.30835141	12.22290005	0.854249361	-0.227271
KANK4	14.30835141	12.22290005	0.854249361	-0.227271
RBM46	14.30835141	12.22290005	0.854249361	-0.227271
B3GALT5	14.30835141	12.22290005	0.854249361	-0.227271
ELOVL2	71.54175706	61.11450023	0.854249361	-0.227271
SLC25A16	606.4539714	517.8064929	0.853826535	-0.227985
TMED9	1668.573903	1424.523442	0.853737098	-0.228136
RGS10	570.1327716	486.6936564	0.853649677	-0.228284
DMXL1	7918.021543	6758.152553	0.853515303	-0.228511
ALDOC	92.45396297	78.89326393	0.853324848	-0.228833
ZC3HC1	141.9828717	121.1178277	0.853045345	-0.229306
MUC5B	177.203429	151.1194915	0.852802298	-0.229717
CDC5L	899.2248541	766.7091847	0.852633444	-0.230002
SETDB1	948.7537628	808.9337485	0.85262771	-0.230012
SH3KBP1	785.8586852	670.0371571	0.852617868	-0.230029
ARFGEF2	2314.651001	1973.442771	0.852587612	-0.23008
H2AC15	148.5867262	126.6736914	0.852523604	-0.230188
STAT5A	396.2312699	337.7965104	0.852523604	-0.230188
TMEM218	49.52890873	42.22456379	0.852523604	-0.230188
H2BC13	49.52890873	42.22456379	0.852523604	-0.230188
TM9SF3	3577.087853	3049.057975	0.852385544	-0.230422
RABIF	119.9700234	102.2278913	0.852111956	-0.230885
PLOD2	436.9550393	372.242865	0.851901984	-0.231241
KRT8P3	35.22055732	30.00166375	0.851822516	-0.231375
C2CD2L	176.1027866	150.0083187	0.851822516	-0.231375
SIK3	1119.353337	953.3862036	0.851729451	-0.231533
CCDC90B	288.3683131	245.5691736	0.851581684	-0.231783
TSPAN9	435.8543969	371.1316923	0.851503839	-0.231915
TP53BP2	2059.301961	1753.43057	0.851468412	-0.231975
BZW2	182.7066411	155.5641824	0.851442408	-0.232019
TNPO1	1755.524654	1494.527324	0.851328018	-0.232213
OPHN1	742.933631	632.2572842	0.851027949	-0.232722
ZNF684	77.04496914	65.55919115	0.850921116	-0.232903
WDR5B	350.0042884	297.794292	0.85083041	-0.233056
C2CD2	643.8758135	547.8081566	0.850797848	-0.233112
ZDHHC11B	195.9143501	166.6759097	0.850759067	-0.233177
PXDNL	97.95717505	83.33795486	0.850759067	-0.233177
PRR5	97.95717505	83.33795486	0.850759067	-0.233177
C12orf57	544.8179961	463.359029	0.850484074	-0.233644
PPIP5K2	998.2826716	848.9359668	0.850396377	-0.233793
RGS14	125.4732355	106.6725822	0.850162043	-0.23419
ENSG000002	104.5610295	88.89381852	0.850162043	-0.23419
SPATA6	627.3661773	533.3629111	0.850162043	-0.23419
ABITRAM	83.64882364	71.11505481	0.850162043	-0.23419
DTD2	83.64882364	71.11505481	0.850162043	-0.23419
NDUFA9	41.82441182	35.55752741	0.850162043	-0.23419
SMCR8	20.91220591	17.7787637	0.850162043	-0.23419
PSPH	62.73661773	53.33629111	0.850162043	-0.23419
ZNF575	62.73661773	53.33629111	0.850162043	-0.23419
HEBP2	967.4646839	822.2678213	0.849920245	-0.234601
TMBIM1	570.1327716	484.4713109	0.849751733	-0.234887
HMGB3	132.07709	112.2284459	0.84971925	-0.234942
PDS5A	4609.490439	3915.772706	0.849502295	-0.23531
SPAST	589.9443351	501.1389019	0.849468114	-0.235368
SEPTIN10	839.7901636	713.3728936	0.849465646	-0.235372
TRMT1L	569.0321292	483.3601382	0.849442612	-0.235412
ACACB	985.0749626	836.7130668	0.849390248	-0.235501
TRIOBP	443.5588938	376.687556	0.8492391	-0.235757
NOPCHAP1	117.7687385	100.0055458	0.849168863	-0.235877
ADAM17	1059.918647	900.0499125	0.849168863	-0.235877
MEF2A	872.8094361	741.1522119	0.849156965	-0.235897
SKIC3	3151.139238	2675.703937	0.849122725	-0.235955
TRIM56	498.5910146	423.3568107	0.849106378	-0.235983
PPP1R2	414.9421909	352.2417559	0.848893565	-0.236344
ZWILCH	124.372593	105.5614095	0.848751376	-0.236586
CLNS1A	1276.273208	603.3667932	2.11525265	1.08083
MTHFD2L	336.079746	158.8977006	2.115069915	1.080705
TMED9	3012.270316	1424.523442	2.114581079	1.080372
MCUR1	713.6508187	337.7965104	2.112664864	1.079064
OSTF1	779.2071148	368.9093468	2.112191305	1.078741
LTV1	136.0915515	64.44801842	2.111648345	1.07837
TMEM182	68.04577574	32.22400921	2.111648345	1.07837
NPAT	1543.477352	731.1516573	2.111022162	1.077942
FAXDC2	351.8464501	166.6759097	2.110961631	1.0779
ESRP1	3842.096849	1820.100934	2.110925157	1.077875
YWHAB	2225.594762	1054.502922	2.110562916	1.077628
DHX9P1	53.93872467	25.55697282	2.110528702	1.077604
PLEKHH2	551.0048182	261.1255919	2.110114195	1.077321
ZNF483	731.0771759	346.6858922	2.108759521	1.076395
RPS3AP26	39.8316736	18.88993643	2.108618721	1.076298
KRBOX5	395.8272564	187.7881916	2.107838906	1.075765
TRAPPC10	2110.248874	1001.166631	2.107789861	1.075731
PPP6R3	4178.176595	1982.332153	2.107707626	1.075675
MRPS25	351.0166236	166.6759097	2.105982947	1.074494
EIF1AD	285.4603275	135.5630732	2.105738094	1.074326
WDR48	951.8110338	452.2473017	2.104625125	1.073563
HILPDA	51.44924507	24.44580009	2.104625125	1.073563
NPIPA1	25.72462253	12.22290005	2.104625125	1.073563
OR1J4	25.72462253	12.22290005	2.104625125	1.073563
UBE2MP1	25.72462253	12.22290005	2.104625125	1.073563
ZDHHC15	217.4145517	103.339064	2.103895113	1.073063
CATSPER2	126.1336331	60.0033275	2.102110638	1.071839
QTRT2	378.4008992	180.0099825	2.102110638	1.071839
PRPF4B	1741.805894	828.9348577	2.10125787	1.071253
ZCRB1	599.9645836	285.571392	2.100926775	1.071026
ZNF280C	574.2399611	273.3484919	2.100761402	1.070912
MBOAT2	882.105605	420.0232925	2.10013497	1.070482
TOP2B	13194.24188	6283.681796	2.099762895	1.070226
EBAG9	578.3890938	275.5708374	2.098876279	1.069617
IER5	135.2617249	64.44801842	2.098772441	1.069546
RBM12B	3098.572276	1476.74856	2.098239578	1.069179
TMX2	783.3562475	373.3540378	2.098159303	1.069124
ANKRD12	3099.402102	1477.859733	2.09722346	1.068481
TACC2	4122.578218	1966.775735	2.096109966	1.067714
LARP1B	612.4119816	292.2384284	2.095590183	1.067357
FBN3	572.580308	273.3484919	2.094689837	1.066737
YAF2	225.7128171	107.7837549	2.094126496	1.066349
HNRNPC	8622.727508	4118.006143	2.093908365	1.066198
TMEM123	4195.602953	2004.555608	2.093033956	1.065596
GNAI3	1064.667442	508.917111	2.092025242	1.0649
MEA1	736.8859616	352.2417559	2.091989236	1.064875
TENM3	920.2776255	440.0244016	2.091424071	1.064486
NPIPB9	23.23514293	11.11172731	2.091046898	1.064225
KLHL4	11.61757147	5.555863657	2.091046898	1.064225
STEAP1B	11.61757147	5.555863657	2.091046898	1.064225
KIAA1143	11.61757147	5.555863657	2.091046898	1.064225
MPPED1	11.61757147	5.555863657	2.091046898	1.064225
RPS4XP16	11.61757147	5.555863657	2.091046898	1.064225
ENSG000002	11.61757147	5.555863657	2.091046898	1.064225
SNORD3B-2	11.61757147	5.555863657	2.091046898	1.064225
RPL17	11.61757147	5.555863657	2.091046898	1.064225
ENSG000002	11.61757147	5.555863657	2.091046898	1.064225
KHK	116.1757147	55.55863657	2.091046898	1.064225
ZFP82	360.1447155	172.2317734	2.091046898	1.064225
CAPZA1	1296.189045	620.0343841	2.090511556	1.063856
TMEM18	238.9900416	114.4507913	2.088146694	1.062223
TARDBP	3515.145195	1683.426688	2.088089265	1.062183
PTK2	7474.247586	3581.309713	2.087015138	1.061441
INTS6	913.6390132	437.8020562	2.086876935	1.061346
RPL12	1576.670413	755.5974574	2.086653943	1.061191
SETBP1	966.7479114	463.359029	2.086390576	1.061009
MKX	266.3743172	127.7848641	2.084552964	1.059738
EFCAB11	310.3551235	148.897146	2.084359115	1.059604
IGSF21	553.4942978	265.5702828	2.084172566	1.059475
ORC2	666.3507063	320.0177467	2.08223048	1.05813
CREBL2	273.0129295	131.1183823	2.08218653	1.058099
MSL2	2084.524252	1001.166631	2.082095215	1.058036
OXSR1	687.0963696	330.0183012	2.081994747	1.057966
PFN2	4783.120138	2297.905209	2.08151325	1.057633
MTSS1	543.5363794	261.1255919	2.08151325	1.057633
ZFP30	497.0660935	238.9021373	2.080626399	1.057018
YWHAZP3	32.3632348	15.55641824	2.080378292	1.056846
PHF13	376.7412461	181.1211552	2.080051034	1.056619
HSPA4	2299.449324	1105.616868	2.07978857	1.056437
GK	150.1986025	72.22622754	2.07955763	1.056277
QRSL1	256.4163988	123.3401732	2.078936588	1.055846
ICMT	634.817298	305.5725011	2.077468672	1.054827
MTIF3	380.8903788	183.3435007	2.077468672	1.054827
NHP2	759.291278	365.5758286	2.076973417	1.054483
GLI2	410.764134	197.7887462	2.076782132	1.05435
PGM2L1	1268.80477	611.1450023	2.076110849	1.053883
TESMIN	239.8198681	115.5619641	2.075249154	1.053285
YTHDF2	2155.889334	1038.946504	2.075072514	1.053162
PLLP	41.49132667	20.00110917	2.074451288	1.05273
KCNJ15	41.49132667	20.00110917	2.074451288	1.05273
CDKN2AIP	225.7128171	108.8949277	2.072757858	1.051552
TIGD2	255.5865723	123.3401732	2.072208638	1.051169
TGFB2	163.4758271	78.89326393	2.072113878	1.051103
PTCD3	1385.810311	668.9259843	2.071694542	1.050811
JPT2	791.6545128	382.2434196	2.071074274	1.050379
AP4S1	50.61941854	24.44580009	2.070679558	1.050104
FAAP24	50.61941854	24.44580009	2.070679558	1.050104
AP3M1	1872.918486	904.4946034	2.070679558	1.050104
YTHDF3	2650.465948	1280.070987	2.070561692	1.050022
MYEF2	1212.376565	585.5880295	2.070357494	1.04988
GORASP2	2946.71402	1423.412269	2.070176072	1.049753
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
ENSG000002	1.100642416	1.659653067	1.507894882	0.592536
SPANXA2-O	1.100642416	1.659653067	1.507894882	0.592536
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ANKEF1	331.2933673	281.1267011	0.848573285	-0.236889
CIAO2A	213.5246288	181.1211552	0.848244796	-0.237447
SLC38A6	296.07281	251.1250373	0.84818676	-0.237546
PTDSS1	983.9743202	834.4907213	0.848081809	-0.237725
SLF1	192.6124229	163.3423915	0.848036638	-0.237801
FBN1	3913.884432	3319.072949	0.848025282	-0.237821
ANKRD18A	694.5053647	588.9215477	0.84797264	-0.23791
CPSF3	666.9893043	565.5869203	0.84797	-0.237915
SLC25A14	144.1841565	122.2290005	0.847728373	-0.238326
SCAF8	3205.070716	2716.817328	0.847662211	-0.238439
GPT2	411.6402637	348.9082377	0.847604738	-0.238536
POU2F2	89.15203572	75.55974574	0.847538086	-0.23865
CMTM3	89.15203572	75.55974574	0.847538086	-0.23865
PIK3C2B	1178.788028	998.9442856	0.847433348	-0.238828
RHOV	61.63597531	52.22511838	0.847315518	-0.239029
EXOC4	1745.618872	1478.970906	0.847247317	-0.239145
COX5A	451.2633907	382.2434196	0.847051694	-0.239478
MFN1	785.8586852	665.5924661	0.846962028	-0.239631
KNG1	34.11991491	28.89049102	0.84673397	-0.240019
TENT5D	34.11991491	28.89049102	0.84673397	-0.240019
EIF2S2	803.4689639	680.0377116	0.846377075	-0.240628
ARMH3	476.5781663	403.3557015	0.846357912	-0.24066
CCM2	374.2184215	316.6842285	0.846255048	-0.240836
TAF1A	231.1349074	195.5664007	0.846113652	-0.241077
SNAPC3	889.3190724	752.2639392	0.845887559	-0.241462
ZNF669	162.8950776	137.7854187	0.84585379	-0.24152
GPR107	1166.680961	986.7213855	0.845750825	-0.241695
H2AJ	2338.865135	1977.887462	0.845661185	-0.241848
RPS13	440.2569665	372.242865	0.845512719	-0.242102
TGIF1	670.2912315	566.698093	0.845450554	-0.242208
RPSA	886.0171451	748.930421	0.845277572	-0.242503
RFX2	94.6552478	80.00443666	0.845219241	-0.242602
NEO1	3644.22704	3080.170812	0.845219241	-0.242602
SLC15A1	47.3276239	40.00221833	0.845219241	-0.242602
DESI1	282.865101	238.9021373	0.844579753	-0.243694
SYNRG	121.0706658	102.2278913	0.844365484	-0.24406
ALDH2	497.4903722	420.0232925	0.844284264	-0.244199
THOC1	631.768747	533.3629111	0.844237569	-0.244279
CANT1	1464.955056	1236.73525	0.844213783	-0.24432
PSMC6	658.1841649	555.5863657	0.844119922	-0.24448
GPATCH2L	697.8072919	588.9215477	0.843960151	-0.244753
BRWD3	2303.644577	1943.441107	0.843637567	-0.245305
CD99	80.34689639	67.78153662	0.843611137	-0.24535
SUPT6H	3146.736668	2654.591655	0.843601463	-0.245366
TXNL4A	347.8030036	293.3496011	0.843436078	-0.245649
TBC1D31	361.0107125	304.4613284	0.843358155	-0.245783
UTP15	193.7130653	163.3423915	0.843218248	-0.246022
RAB18	1120.45398	944.4968217	0.842959049	-0.246466
POLR3C	460.06853	387.7992833	0.842916344	-0.246539
OXA1L	971.8672536	818.9343031	0.842640083	-0.247012
ATP11C	572.3340565	482.2489654	0.842600506	-0.247079
PRPF38A	432.5524696	364.4646559	0.842590625	-0.247096
RPL29	1383.507517	1165.620195	0.842510923	-0.247233
POLI	319.1863007	268.903801	0.842466611	-0.247309
ZFP14	505.1948691	425.5791561	0.842405935	-0.247412
STRN	1203.002161	1013.389531	0.842383799	-0.24745
MRE11	564.6295596	475.5819291	0.842290172	-0.247611
WASF1	212.4239863	178.8988098	0.842178008	-0.247803
CCDC127	265.2548223	223.345719	0.842004368	-0.2481
CMAS	469.9743118	395.5774924	0.841700243	-0.248622
MAF	1309.764475	1102.28335	0.841588981	-0.248812
CUL4B	2090.119949	1758.986434	0.841572004	-0.248841
PLPPR4	79.24625397	66.67036389	0.841306189	-0.249297
TMEM125	72.64239948	61.11450023	0.841306189	-0.249297
CDKL3	19.81156349	16.66759097	0.841306189	-0.249297
SCLY	19.81156349	16.66759097	0.841306189	-0.249297
STK32B	19.81156349	16.66759097	0.841306189	-0.249297
RNF32-AS1	19.81156349	16.66759097	0.841306189	-0.249297
FAM106B	19.81156349	16.66759097	0.841306189	-0.249297
PHF7	59.43469048	50.00277291	0.841306189	-0.249297
CCDC157	59.43469048	50.00277291	0.841306189	-0.249297
HSF2BP	33.01927249	27.77931829	0.841306189	-0.249297
DNAI3	33.01927249	27.77931829	0.841306189	-0.249297
SCARNA21	33.01927249	27.77931829	0.841306189	-0.249297
SNCB	6.603854498	5.555863657	0.841306189	-0.249297
UNC93A	6.603854498	5.555863657	0.841306189	-0.249297
NACA3P	6.603854498	5.555863657	0.841306189	-0.249297
DAW1	6.603854498	5.555863657	0.841306189	-0.249297
RBPJL	6.603854498	5.555863657	0.841306189	-0.249297
TRIM63	6.603854498	5.555863657	0.841306189	-0.249297
PTGIR	6.603854498	5.555863657	0.841306189	-0.249297
NCF1C	6.603854498	5.555863657	0.841306189	-0.249297
ST20	6.603854498	5.555863657	0.841306189	-0.249297
LIPF	6.603854498	5.555863657	0.841306189	-0.249297
FOXD4L4	6.603854498	5.555863657	0.841306189	-0.249297
MPPED1	6.603854498	5.555863657	0.841306189	-0.249297
TPT1P5	6.603854498	5.555863657	0.841306189	-0.249297
ENSG000002	6.603854498	5.555863657	0.841306189	-0.249297
IMPDH1P8	6.603854498	5.555863657	0.841306189	-0.249297
ENSG000002	6.603854498	5.555863657	0.841306189	-0.249297
PPP1R2B	6.603854498	5.555863657	0.841306189	-0.249297
RPEP4	6.603854498	5.555863657	0.841306189	-0.249297
RWDD4P1	6.603854498	5.555863657	0.841306189	-0.249297
B4GAT1-DT	6.603854498	5.555863657	0.841306189	-0.249297
OR6Q1	6.603854498	5.555863657	0.841306189	-0.249297
ENSG000002	6.603854498	5.555863657	0.841306189	-0.249297
ENSG000002	6.603854498	5.555863657	0.841306189	-0.249297
SLC8A2	26.41541799	22.22345463	0.841306189	-0.249297
TSACC	26.41541799	22.22345463	0.841306189	-0.249297
ZNF22-AS1	13.207709	11.11172731	0.841306189	-0.249297
NLRP11	13.207709	11.11172731	0.841306189	-0.249297
ARMCX2	271.3532764	131.1183823	2.069528861	1.049302
FOXK2	1733.507628	837.8242395	2.069058815	1.048975
CSNK2A2	588.3470122	284.4602192	2.068292761	1.04844
ANAPC10	119.4950208	57.78098203	2.068068361	1.048284
B4GALT1	875.4669927	423.3568107	2.067917583	1.048179
HSPA13	1897.813282	917.8286762	2.067720623	1.048041
MACROH2A	2065.438242	998.9442856	2.067621059	1.047972
MISP	98.74935747	47.78042745	2.066732399	1.047352
SNX4	817.3791354	395.5774924	2.066293333	1.047045
RAE1	512.0029711	247.7915191	2.066265112	1.047025
HNRNPA2B	11325.47253	5482.526257	2.06573977	1.046659
DIRAS2	39.00184707	18.88993643	2.064689164	1.045925
RRP1	213.2654191	103.339064	2.063744443	1.045264
HSP90AA2P	1443.898168	700.0388208	2.062597281	1.044462
SLC26A5	48.12993894	23.33462736	2.062597281	1.044462
SRSF3	1672.930291	811.1560939	2.06240242	1.044326
HNRNPK	7380.477188	3579.087368	2.062111491	1.044122
PDZRN4	57.2580308	27.77931829	2.0611748	1.043467
BORCS8	57.2580308	27.77931829	2.0611748	1.043467
GRK5	343.5481848	166.6759097	2.0611748	1.043467
HMGXB4	419.0623993	203.3446099	2.060848329	1.043238
RALY	1677.90925	814.4896121	2.060074463	1.042696
SUDS3	965.9180848	468.9148927	2.059900634	1.042575
HOOK3	1887.855363	916.7175034	2.059364369	1.042199
G3BP1	1706.953179	828.9348577	2.059212691	1.042093
CACUL1	1165.906279	566.698093	2.057367571	1.0408
UMPS	763.4404107	371.1316923	2.057060678	1.040584
OTUD4	2022.287262	983.3878673	2.05644927	1.040155
TMEM242	221.5636844	107.7837549	2.055631524	1.039582
YKT6	470.5116444	228.9015827	2.055519402	1.039503
MCAM	294.5884193	143.3412824	2.055154067	1.039247
FZD6	2506.905957	1220.067659	2.054726997	1.038947
SPINK2	73.02473494	35.55752741	2.053706775	1.03823
WFDC3	18.25618373	8.889381852	2.053706775	1.03823
NTN3	18.25618373	8.889381852	2.053706775	1.03823
SFT2D3	18.25618373	8.889381852	2.053706775	1.03823
HUS1B	18.25618373	8.889381852	2.053706775	1.03823
KLRD1	9.128091867	4.444690926	2.053706775	1.03823
NECAP2	9.128091867	4.444690926	2.053706775	1.03823
CCDC38	9.128091867	4.444690926	2.053706775	1.03823
TLK2P2	9.128091867	4.444690926	2.053706775	1.03823
YEATS2-AS	9.128091867	4.444690926	2.053706775	1.03823
PCMTD1P3	9.128091867	4.444690926	2.053706775	1.03823
ENSG000002	9.128091867	4.444690926	2.053706775	1.03823
ENSG000002	9.128091867	4.444690926	2.053706775	1.03823
MIR100HG	9.128091867	4.444690926	2.053706775	1.03823
FAM157C	9.128091867	4.444690926	2.053706775	1.03823
ENSG000002	9.128091867	4.444690926	2.053706775	1.03823
NFU1	255.5865723	124.4513459	2.053706775	1.03823
GSTZ1	182.5618373	88.89381852	2.053706775	1.03823
SFR1	54.7685512	26.66814555	2.053706775	1.03823
PIPOX	27.3842756	13.33407278	2.053706775	1.03823
RTN2	264.7146641	128.8960368	2.053706775	1.03823
NUDCD2	453.9151138	221.1233736	2.052768581	1.037571
IPO7	2508.56561	1222.290005	2.052348952	1.037276
CANX	451.4256342	220.0122008	2.05182091	1.036905
PROSER3	405.7851748	197.7887462	2.051609015	1.036756
DNAJB6	494.5766139	241.1244827	2.051125661	1.036416
SOX6	510.343318	248.9026918	2.050372835	1.035886
TCP11L1	250.6076131	122.2290005	2.050312218	1.035844
MYORG	312.0147765	152.2306642	2.04961844	1.035355
VANGL1	792.4843394	386.6881105	2.049414807	1.035212
EDNRA	186.71097	91.11616398	2.049153101	1.035028
MBD4	1097.030677	535.5852566	2.048283936	1.034416
DSP	72994.86118	35653.08826	2.047364331	1.033768
MTRES1	131.9424188	64.44801842	2.047268823	1.033701
CHSY3	61.40716347	30.00166375	2.046791937	1.033364
PABIR2	841.4441048	411.1339106	2.046642427	1.033259
RPAIN	525.2801956	256.680901	2.046432725	1.033111
MYL12A	918.6179724	448.9137835	2.046312691	1.033027
IDH3A	682.1174104	333.3518194	2.04623875	1.032974
DLD	872.9775131	426.6903289	2.045927583	1.032755
TOP3A	52.2790716	25.55697282	2.045589357	1.032517
PDCD10	1297.848698	634.4796297	2.045532492	1.032476
EPS8	2554.20607	1248.95815	2.04506938	1.03215
PARK7	2198.210487	1075.615204	2.043677403	1.031167
ETV6	1102.839463	540.0299475	2.042182046	1.030111
ZDHHC21	512.8327976	251.1250373	2.04214125	1.030083
TRMT13	145.2196433	71.11505481	2.042037987	1.03001
AREG	34.02288787	16.66759097	2.041260067	1.02946
C8orf76	34.02288787	16.66759097	2.041260067	1.02946
PLEKHO1	340.2288787	166.6759097	2.041260067	1.02946
KAT7	1671.270638	818.9343031	2.040787194	1.029126
HDAC9	229.0321232	112.2284459	2.040767128	1.029112
SEC11A	1034.793687	507.8059383	2.0377739	1.026994
CYB5A	550.1749916	270.0149737	2.037572154	1.026851
ZNF71	248.94796	122.2290005	2.036733992	1.026258
FASTKD5	755.1421454	371.1316923	2.034701323	1.024817
RTN4	3691.898247	1814.54507	2.034613693	1.024755
PPA1	596.6452775	293.3496011	2.033905195	1.024252
RSRC2	1968.348537	967.8314491	2.033772036	1.024158
NIBAN1	2890.285816	1421.189924	2.033708351	1.024113
RPS3AP6	40.66150013	20.00110917	2.032962262	1.023583
DDX12B	121.9845004	60.0033275	2.032962262	1.023583
TMOD3	1020.686636	502.2500746	2.032227943	1.023062
MTX3	291.2691132	143.3412824	2.031997401	1.022899
TIGD3	72.1949084	35.55752741	2.030369198	1.021742
ZNF451	2135.14367	1052.280577	2.029063082	1.020814
ATP2A2	5607.137886	2763.486583	2.029008543	1.020775
WDR75	1363.404994	672.2595025	2.028093302	1.020124
VDAC1	570.0908284	281.1267011	2.027878627	1.019971
DDX46	1456.149917	2188.252568	1.502765988	0.58762
XPO7	1391.212014	2090.333038	1.502526586	0.587391
TOR1B	286.1670282	429.8501443	1.502095287	0.586976
FBXO21	802.3683215	1204.908126	1.501689554	0.586587
METTL18	130.9764475	196.6688884	1.501559189	0.586461
STOX1	128.7751627	193.3495823	1.501450887	0.586357
ZNF484	628.4668197	943.5127684	1.501292891	0.586205
OTUD1	245.4432588	368.4429808	1.501133022	0.586052
GSTO1	121.0706658	181.7320108	1.501040815	0.585963
HSP90AB1	6400.235651	9606.901777	1.501023134	0.585946
DHX36	956.4582598	1435.599903	1.500954054	0.58588
SLC16A7	110.0642416	165.1354801	1.500355408	0.585304
METTL25B	103.4603871	155.1775617	1.499874165	0.584841
SLC2A1	300.4753796	450.5958076	1.499609746	0.584587
NMNAT1	97.95717505	146.8792964	1.499423563	0.584408
WDR47	484.2826632	726.0982167	1.499327298	0.584315
CLASP2	1929.426156	2892.775295	1.499293086	0.584282
BPGM	95.75589022	143.5599903	1.49922882	0.584221
RRP1B	469.9743118	704.5227268	1.499066458	0.584064
ADAMTSL2	255.3490406	382.5500319	1.498145562	0.583178
RPS2P46	83.64882364	125.3038065	1.497974521	0.583013
FBXL20	417.1434758	624.8593796	1.497948346	0.582988
GLUL	1635.554631	2449.647926	1.497747541	0.582794
METTL17	321.3875856	481.2993894	1.497566835	0.58262
FKBP9	713.2162858	1067.986748	1.49742339	0.582482
ZNF354A	534.9122143	800.7826047	1.497035557	0.582108
MED26	74.84368431	112.026582	1.49680742	0.581889
CTC1	517.3019357	774.2281556	1.496665878	0.581752
ZBTB37	436.9550393	653.9033083	1.496500211	0.581592
CIAO1	286.1670282	428.1904912	1.496295691	0.581395
TAPT1	278.4625313	416.5729197	1.495974765	0.581086
PTOV1-AS2	69.34047223	103.7283167	1.495927463	0.58104
IER5L	137.580302	205.7969803	1.495831723	0.580948
TLE2	465.5717421	696.2244615	1.495418211	0.580549
KLHL11	650.479668	972.5566971	1.495137734	0.580278
PSMC1	511.7987236	765.1000638	1.494923743	0.580072
CATSPERG	191.5117804	286.290154	1.494895788	0.580045
PFKFB4	125.4732355	187.5407965	1.494667734	0.579825
ARL5A	61.63597531	92.1107452	1.494431535	0.579597
RPL39	368.7152095	551.0048182	1.494391346	0.579558
ANAPC7	672.4925164	1004.919932	1.49432136	0.57949
CREBL2	182.7066411	273.0129295	1.494269326	0.57944
PRKCI	1019.194877	1522.731689	1.494053515	0.579232
CUL3	1637.755915	2446.32862	1.493707699	0.578898
PRDX6	693.4047223	1034.793687	1.492337237	0.577574
DCPS	105.661672	157.6670413	1.492187644	0.577429
COQ8B	156.2912231	233.1812559	1.491966415	0.577215
SH2B2	51.73019357	77.1738676	1.491853447	0.577106
ADAM12	50.62955115	75.51421454	1.49150472	0.576769
DAD1	453.4646755	676.3086247	1.491425157	0.576692
MTFR1	298.2740948	444.7870219	1.491202319	0.576476
MTMR4	1036.805156	1545.966832	1.491087137	0.576365
UTP15	193.7130653	288.7796336	1.490759713	0.576048
NCS1	145.284799	216.5847252	1.490759713	0.576048
PRDM4	868.4068665	1294.529392	1.49069456	0.575985
DHX33	433.653112	646.4348695	1.490672733	0.575964
HMGCR	464.4710997	692.0753288	1.490028829	0.57534
INPPL1	1346.085675	2005.690731	1.490017142	0.575329
M6PR	778.1541883	1159.267667	1.489766019	0.575086
CTC-338M12	85.85010847	127.7932861	1.488562897	0.57392
RPS27L	250.9464709	373.42194	1.48805416	0.573427
ZNF567	494.1884449	735.2263086	1.487744839	0.573127
MPP1	244.3426164	363.4640216	1.487517924	0.572907
FAXC	81.44753881	121.1546739	1.487517924	0.572907
DUSP6	283.9657434	422.3817055	1.487438944	0.57283
CUL4B	2090.119949	3108.530194	1.487249665	0.572647
KIFAP3	709.9143585	1055.53935	1.486854489	0.572263
ACO1	665.8886619	989.9830543	1.486709582	0.572123
TSR1	1282.248415	1906.111547	1.486538431	0.571957
C3orf52	75.94432672	112.8564085	1.486041333	0.571474
RHPN1	224.5310529	333.5902664	1.485719958	0.571162
ZNF254	741.8329886	1102.009636	1.485522555	0.570971
UBE2R2	1026.899374	1524.391342	1.484460289	0.569938
METTL7A	35.22055732	52.2790716	1.484334025	0.569816
LONP1	790.2612549	1172.544892	1.483743363	0.569242
MRPS27	335.695937	497.89592	1.483175294	0.568689
MAGT1	669.1905891	992.4725339	1.48309398	0.56861
NSUN3	300.4753796	445.6168484	1.483039472	0.568557
LHPP	162.8950776	241.4795212	1.482423685	0.567958
UBE2G1	606.4539714	898.7021356	1.481896695	0.567445
ENSG000002	31.91863007	47.3001124	1.481896695	0.567445
DHTKD1	628.4668197	931.0653704	1.481486916	0.567046
DHX8	964.1627567	1428.131464	1.481214094	0.56678
GPR180	216.826556	321.1428684	1.481104872	0.566674
TSTD2	336.7965794	498.7257466	1.480792196	0.566369
MFSD3	58.33404806	86.30195947	1.479444035	0.565055
ZNF713	232.2355498	343.5481848	1.479309197	0.564924
NOL11	782.556758	1157.608014	1.479263967	0.56488
SDHAP4	28.61670282	42.3211532	1.478896904	0.564521
PHC2	563.5289171	833.1458395	1.47844381	0.564079
MUS81	168.3982897	248.94796	1.478328316	0.563967
PPP1CA	914.6338479	1351.787423	1.477954731	0.563602
TIAL1	1882.098532	2781.57854	1.477913347	0.563562
ZNF491	55.03212081	81.32300027	1.477736985	0.56339
IPO8	1856.783756	2743.406519	1.477504588	0.563163
NDUFA4	381.9229185	564.2820427	1.477476254	0.563135
ZNF267	408.3383364	603.2838898	1.477411832	0.563072
C8orf44	107.8629568	159.3266944	1.477121517	0.562789
ZNF256	428.1498999	632.3278184	1.476884191	0.562557
PPIAP22	159.5931504	235.6707355	1.476697057	0.562374
SEPTIN9	2127.541791	3141.723255	1.476691677	0.562369

TRABD2A	13.207709	11.11172731	0.841306189	-0.249297
ZNF100	13.207709	11.11172731	0.841306189	-0.249297
SPINT1-AS1	13.207709	11.11172731	0.841306189	-0.249297
IKZF2	697.8072919	586.6992022	0.840775396	-0.250208
RNF20	1007.087811	846.7136214	0.840754512	-0.250243
TMPO	939.9486235	790.0438121	0.84051808	-0.250649
UBAC2	440.2569665	370.0205196	0.840464882	-0.250741
CCDC88A	767.1477642	644.4801842	0.84009915	-0.251368
GSPT1	2388.394043	2005.66678	0.839755394	-0.251959
RBM4	111.164884	93.33850944	0.839640236	-0.252157
DCLRE1B	97.95717505	82.22678213	0.839415613	-0.252543
KCTD21	91.35332055	76.67091847	0.839278945	-0.252778
RUFY3	756.14134	634.4796297	0.839101893	-0.253082
SFXN5	78.14561156	65.55919115	0.838936312	-0.253367
EOLA1	78.14561156	65.55919115	0.838936312	-0.253367
TAF5L	357.7087853	300.0166375	0.838717554	-0.253743
MTF1	739.6317038	620.0343841	0.838301524	-0.254459
H2BC15	123.2719506	103.339064	0.838301524	-0.254459
ZC3H7A	1024.69809	858.9365214	0.838233749	-0.254575
CEBPA	116.6680961	97.78320037	0.838131448	-0.254752
UNC119B	401.7344819	336.6853376	0.838079261	-0.254841
PCGF5	355.5075005	297.794292	0.83765966	-0.255564
VMP1	1512.28268	1266.736914	0.837632362	-0.255611
DLG1	3725.674579	3120.17303	0.83747868	-0.255876
HCLS1	471.0749542	394.4663197	0.837374851	-0.256055
LEMD3	606.4539714	507.8059383	0.837336323	-0.256121
PPP1R9B	683.4989405	572.2539567	0.837241907	-0.256284
ESS2	180.5053563	151.1194915	0.837202256	-0.256352
WDR89	270.7580344	226.6792372	0.837202256	-0.256352
NUP214	3736.681003	3127.951239	0.837093462	-0.256539
COPS6	456.7666028	382.2434196	0.836846252	-0.256966
SNAPC1	77.04496914	64.44801842	0.836498725	-0.257565
ORAI2	77.04496914	64.44801842	0.836498725	-0.257565
MBD3	38.52248457	32.22400921	0.836498725	-0.257565
TMEM156	38.52248457	32.22400921	0.836498725	-0.257565
CLEC10A	38.52248457	32.22400921	0.836498725	-0.257565
AP1G1	1468.256983	1227.845868	0.836260874	-0.257975
A2ML1	108.9635992	91.11616398	0.836207363	-0.258067
UBXN11	506.2955115	423.3568107	0.836185194	-0.258106
NRDC	3639.824471	3043.502111	0.836167276	-0.258137
YARS1	608.6552562	508.917111	0.836133601	-0.258195
PACSIN2	986.175605	824.4901667	0.836048025	-0.258342
TAF2	1728.008594	1444.524551	0.83594755	-0.258516
ALG10	345.6017187	288.9049102	0.83594755	-0.258516
C18orf25	172.8008594	144.4524551	0.83594755	-0.258516
CAND1	1912.91652	1598.977561	0.835884653	-0.258624
TNIK	1567.314801	1310.07265	0.835870783	-0.258648
DLST	677.9957284	566.698093	0.835843161	-0.258696
TANGO2	134.2783748	112.2284459	0.835789427	-0.258789
ESRP1	2178.171342	1820.100934	0.835609623	-0.259099
ADCY6	1187.593167	992.2772492	0.835536341	-0.259226
HSPA9	2975.036451	2485.6934	0.835516956	-0.259259
RPL26P19	127.6745203	106.6725822	0.835504077	-0.259281
ARHGEF2	727.5246372	607.8114841	0.83545141	-0.259372
ATL1	280.6638162	234.4574463	0.835367557	-0.259517
DDHD2	1216.20987	1015.611877	0.835063011	-0.260043
G3BP1	992.7794595	828.9348577	0.834963747	-0.260215
ARPC5L	114.4668113	95.5608549	0.834834602	-0.260438
DCHS1	1169.982889	976.7208309	0.834816338	-0.260469
METTL2A	304.8779493	254.4585555	0.834624334	-0.260801
BEND3	165.0963624	137.7854187	0.834575739	-0.260885
HEATR5A	526.107075	438.9132289	0.834265969	-0.261421
SPOPL	285.0663858	237.7909645	0.834159958	-0.261604
EPM2AIP1	880.513933	734.4851755	0.834155086	-0.261612
USP34	7186.094336	5993.665713	0.834064435	-0.261769
SP6	25.31477557	21.1122819	0.833990483	-0.261897
ENSG000002	25.31477557	21.1122819	0.833990483	-0.261897
MTHFSD	177.203429	147.7859733	0.833990483	-0.261897
SRPK1	1005.987168	838.9354122	0.833942458	-0.26198
TEX10	707.7130737	590.0327204	0.833717424	-0.26237
WDR44	769.349049	641.146666	0.833362525	-0.262984
BRD7	908.0299934	756.7086301	0.833352021	-0.263002
ZNF17	252.0471133	210.0116462	0.833223771	-0.263224
NUP205	1688.385467	1406.744678	0.833189284	-0.263284
EPAS1	1820.462557	1516.750778	0.833167797	-0.263321
EXOSC3	453.4646755	377.7987287	0.833138167	-0.263372
FGL2	753.9400552	627.8125933	0.832708899	-0.264116
STK24	1136.963616	946.7191672	0.832673231	-0.264178
POLE4	62.73661773	52.22511838	0.832450334	-0.264564
PPP2R5E	827.6830971	688.9270935	0.832356123	-0.264727
SPATA5	526.107075	437.8020562	0.832153904	-0.265078
SPEN	14006.77539	11652.86843	0.83194512	-0.26544
AGA	331.2933673	275.5708374	0.831803062	-0.265686
TSR2	499.691657	415.5786016	0.831670082	-0.265917
RHNO1	249.8458285	207.7893008	0.831670082	-0.265917
PAIP1	649.3790256	540.0299475	0.831609778	-0.266021
ANXA5	5751.957268	4782.487436	0.831453923	-0.266292
FCRL3	37.42184215	31.11283648	0.831408469	-0.266371
ARHGEF26	18.71092108	15.55641824	0.831408469	-0.266371
TNFSF14	18.71092108	15.55641824	0.831408469	-0.266371
IL11RA	18.71092108	15.55641824	0.831408469	-0.266371
NUDT11	18.71092108	15.55641824	0.831408469	-0.266371
CASTOR1	18.71092108	15.55641824	0.831408469	-0.266371
CAPN7	1492.471117	1240.068768	0.830882926	-0.267283
DCPS	105.661672	87.78264578	0.830789861	-0.267444
TNFAIP1	223.4304105	185.5658462	0.830530838	-0.267894
UBTD2	272.9593192	226.6792372	0.830450625	-0.268034
SNX12	508.4967963	422.2456379	0.830380134	-0.268156
ZNF235	495.2890873	411.1339106	0.830088773	-0.268662
AASDHPPT	179.4047139	148.897146	0.829951136	-0.268902
COPZ1	569.0321292	472.2484109	0.829915196	-0.268964
VPS33A	47.3001124	23.33462736	2.027035258	1.019371
CD27-AS1	47.3001124	23.33462736	2.027035258	1.019371
ATP6V0D2	31.53340827	15.55641824	2.027035258	1.019371
RPRM	31.53340827	15.55641824	2.027035258	1.019371
HMOX2	15.76670413	7.77820912	2.027035258	1.019371
DPYS	15.76670413	7.77820912	2.027035258	1.019371
RPS24P8	15.76670413	7.77820912	2.027035258	1.019371
PECAM1	898.7021356	443.3579198	2.027035258	1.019371
NME7	551.8346447	272.2373192	2.027035258	1.019371
WASF1	362.6341951	178.8988098	2.027035258	1.019371
L2HGDH	632.3278184	312.2395375	2.02513693	1.018019
CBFA2T2	2472.883069	1221.178832	2.024996671	1.01792
RMC1	427.3606647	211.122819	2.02422773	1.017372
KDR	760.1211046	375.5763832	2.023878866	1.017123
HIKESHI	380.0605523	187.7881916	2.023878866	1.017123
ZNF878	53.93872467	26.66814555	2.022590006	1.016204
ELF4	453.9151138	224.4568918	2.022281919	1.015984
RMND5A	1492.028107	737.8186937	2.022215105	1.015936
PLS1	975.0461767	482.2489654	2.021873029	1.015692
ZNF566	352.6762767	174.4541188	2.021599026	1.015497
AACS	711.9911656	352.2417559	2.021313924	1.015293
LRPPRC	6451.901297	3192.399257	2.021019546	1.015083
THOC2	3494.399532	1730.095943	2.019772109	1.014193
CCDC77	181.7320108	90.00499125	2.019132587	1.013736
SP3	4900.955506	2427.912418	2.018588261	1.013347
RPS10P3	22.4053164	11.11172731	2.016366652	1.011758
ENSG000002	22.4053164	11.11172731	2.016366652	1.011758
ZSCAN16	134.4318984	66.67036389	2.016366652	1.011758
SQLE	2045.522405	1014.500704	2.016284855	1.011699
COQ9	208.2864599	103.339064	2.015563638	1.011183
SLC1A4	295.4182459	146.6748005	2.014103614	1.010138
RERG	199.158368	98.8943731	2.01384934	1.009956
CDV3	751.8228392	373.3540378	2.0136995	1.009848
PIM1	382.5500319	190.0105371	2.013309566	1.009569
ZNF684	131.9424188	65.55919115	2.012569351	1.009038
CCDC6	2101.120782	1044.502368	2.011599828	1.008343
RRS1	203.3075007	101.1167186	2.010622017	1.007642
DBF4B	326.1218276	162.2312188	2.010228549	1.00736
MS4A8	122.8143269	61.11450023	2.009577539	1.006892
FIGN	575.8996142	286.6825647	2.008840736	1.006363
CTSC	711.9911656	354.4641013	2.008641109	1.00622
KNOP1	760.9509311	378.9099014	2.008263517	1.005949
PPP2R5E	1383.320831	688.9270935	2.007935011	1.005713
OPA1	2491.96908	1241.179941	2.007741986	1.005574
USB1	285.4603275	142.2301096	2.007031621	1.005063
CBLC	35.68254093	17.7787637	2.007031621	1.005063
BLOC1S6	178.4127047	88.89381852	2.007031621	1.005063
BCLAF1	4136.685269	2061.225417	2.006905812	1.004973
BLTP3B	2790.706632	1391.18826	2.005987768	1.004313
CHST3	120.3248473	60.0033275	2.005302912	1.00382
CADPS	162.6460005	81.11560939	2.005113464	1.003684
DHX9	7090.037901	3539.08515	2.003353296	1.002417
CEP162	507.0240119	253.3473828	2.001299585	1.000937
C12orf29	297.9077255	148.897146	2.000761824	1.000549
ANKRD26	1336.020719	667.8148116	2.000585635	1.000422
CBY1	137.7512045	68.89270935	1.99950337	0.999642
TEX10	1179.183504	590.0327204	1.998505275	0.998921
DDX18	417.4027463	208.9004735	1.998093826	0.998624
MALT1	572.580308	286.6825647	1.997262403	0.998024
PAPOLA	6173.079582	3091.282539	1.996931534	0.997785
COMMD2	516.9819303	258.9032464	1.996815171	0.997701
KBTBD2	1258.017025	630.0349387	1.996741684	0.997648
ZNF782	998.2813196	500.0277291	1.996451919	0.997438
WDR5	672.159492	336.6853376	1.996402626	0.997403
SIKE1	590.0066652	295.5719466	1.99615245	0.997222
OTULINL	507.8538384	254.4585555	1.995821431	0.996983
RAB6D	148.5389495	74.44857301	1.995188672	0.996525
NSUN3	445.6168484	223.345719	1.995188672	0.996525
PPARA	343.5481848	172.2317734	1.99468529	0.996161
NAE1	631.4979919	316.6842285	1.994093596	0.995733
TRIM37	2164.187599	1085.615759	1.993511592	0.995312
TOP1	1860.471088	933.3850944	1.993251337	0.995124
ATP6V1G1	721.949084	362.2423104	1.99300044	0.994942
PBX1	2672.871264	1341.185487	1.992916931	0.994882
NR3C1	1560.903709	783.3767757	1.992532531	0.994603
NIPBL	8792.012121	4413.578089	1.992037287	0.994245
CCDC69	19.9158368	10.00055458	1.991473236	0.993836
MZF1-AS1	19.9158368	10.00055458	1.991473236	0.993836
SERPINB8	59.7475104	30.00166375	1.991473236	0.993836
FAM229B	66.38612267	33.33518194	1.991473236	0.993836
BRICD5	33.19306133	16.66759097	1.991473236	0.993836
ENSG000002	33.19306133	16.66759097	1.991473236	0.993836
GNG11	26.55444907	13.33407278	1.991473236	0.993836
LRRTM2	13.27722453	6.667036389	1.991473236	0.993836
CMAHP	13.27722453	6.667036389	1.991473236	0.993836
CHTF8	13.27722453	6.667036389	1.991473236	0.993836
C10orf67	13.27722453	6.667036389	1.991473236	0.993836
LINC00265	13.27722453	6.667036389	1.991473236	0.993836
FAM111A-D	13.27722453	6.667036389	1.991473236	0.993836
INTS6P1	13.27722453	6.667036389	1.991473236	0.993836
SNAI3-AS1	13.27722453	6.667036389	1.991473236	0.993836
CHRND	6.638612267	3.333518194	1.991473236	0.993836
CYP19A1	6.638612267	3.333518194	1.991473236	0.993836
UNC45B	6.638612267	3.333518194	1.991473236	0.993836
C7orf57	6.638612267	3.333518194	1.991473236	0.993836
TRHR	6.638612267	3.333518194	1.991473236	0.993836
SEPTIN5	6.638612267	3.333518194	1.991473236	0.993836
ENSG000001	6.638612267	3.333518194	1.991473236	0.993836
KTI12	6.638612267	3.333518194	1.991473236	0.993836
THAP5P1	6.638612267	3.333518194	1.991473236	0.993836
SUMO2P3	6.638612267	3.333518194	1.991473236	0.993836
SPECC1	1806.154205	2667.062478	1.476652697	0.562331
FYTTD1	1066.522501	1574.180934	1.475994113	0.561687
SMARCAL1	336.7965794	497.0660935	1.475864435	0.56156
INPP5E	155.1905807	229.0321232	1.475812012	0.561509
NEK6	849.6959454	1253.867892	1.475666559	0.561367
SCYL2	1621.246279	2392.389896	1.475648658	0.561349
MTG1	25.31477557	37.342194	1.475114559	0.560827
THUMPD3	649.3790256	957.6198195	1.47467008	0.560392
ADAM15	516.2012932	760.9509311	1.474136042	0.55987
ZNF324B	122.1713082	180.0723577	1.473933286	0.559671
JOSD2	24.21413316	35.68254093	1.473624544	0.559369
HNRNPLL	529.4090022	780.0369414	1.4734108	0.55916
PSMD3	737.4304189	1086.242932	1.473010747	0.558768
FAM104A	592.14562	872.1476866	1.47286015	0.55862
CCNB3	117.7687385	173.4337455	1.472663693	0.558428
TGS1	585.5417655	862.1897682	1.472465021	0.558233
DMAC1	301.5760221	443.9571954	1.472123653	0.557899
LDLR	438.0556817	644.7752164	1.471902416	0.557682
NOL10	803.4689639	1182.50281	1.471746717	0.557529
YIPF6	320.2869431	471.3414471	1.471622497	0.557408
FUBP1	3164.346947	4654.497026	1.470918677	0.556717
TASOR2	2817.644586	4143.323881	1.470492021	0.556299
ENAH	2649.246296	3895.205748	1.470307141	0.556118
FAM218A	22.01284833	32.3632348	1.47019751	0.55601
ZNF24	654.8822377	962.5987787	1.469880726	0.555699
TOR1AIP2	893.721642	1313.615402	1.469826108	0.555645
ATG10	86.95075089	127.7932861	1.469720328	0.555542
DZIP1L	86.95075089	127.7932861	1.469720328	0.555542
SETD3	1606.937928	2361.686314	1.469681108	0.555503
CREG1	322.488228	473.8309506	1.46929689	0.555126
ETNK1	471.0749542	692.0753288	1.469140575	0.554972
PCDHGA4	146.3854414	214.9250721	1.468213438	0.554062
TTC26	145.284799	213.2654191	1.467912821	0.553766
UBAP1	724.2227099	1063.007789	1.467791295	0.553647
ENSG000002	184.9079259	271.3532764	1.467504841	0.553365
RNF121	367.614567	539.3872467	1.467262984	0.553127
FLAD1	183.8072835	269.6936233	1.467262984	0.553127
KCTD20	509.5974387	747.6737066	1.467184977	0.553051
PRKCH	446.860821	655.5629614	1.467040587	0.552909
RNF170	283.9657434	416.5729197	1.466983006	0.552852
KLHL29	101.2591023	148.5389495	1.466919478	0.55279
SLC35B1	263.0535375	385.869338	1.466885189	0.552756
PKIA	181.6059987	266.3743172	1.466770476	0.552643
ZBTB48	121.0706658	177.5828781	1.466770476	0.552643
KIAA1614	60.5353329	88.79143907	1.466770476	0.552643
USP7	4400.36838	6453.56095	1.46659561	0.552471
ZNF770	1453.948632	2131.824364	1.466230868	0.552112
UBP1	1121.554622	1643.886363	1.465721178	0.551611
HYLS1	78.14561156	114.5160616	1.46541897	0.551313
MAP3K9	527.2077174	772.5685026	1.465396801	0.551291
VCP	1621.246279	2374.963538	1.464899916	0.550802
CCDC61	38.52248457	56.42820427	1.464812171	0.550716
TLK2	862.9036544	1263.82581	1.464619838	0.550526
ACBD6	458.9678876	672.159492	1.464502224	0.55041
RAB6A	1389.010729	2033.904833	1.464283026	0.550194
EAPP	665.8886619	975.0461767	1.464278088	0.55019
YARS1	608.6552562	891.2336968	1.464266821	0.550178
DOK3	75.94432672	111.1967555	1.464187784	0.550101
PNPLA6	398.4325547	583.368053	1.4641576	0.550071
CEP63	94.6552478	138.5810311	1.464060729	0.549975
ADGRF5	321.3875856	470.5116444	1.464000682	0.549916
PBX1	1825.965769	2672.871264	1.463812362	0.549731
CCDC59	263.0535375	385.0395115	1.463730597	0.54965
CTDP1	37.42184215	54.7685512	1.463545033	0.549467
PPIAP29	18.71092108	27.3842756	1.463545033	0.549467
SCUBE3-AS1	18.71092108	27.3842756	1.463545033	0.549467
USP18	129.8758051	190.0302761	1.463169187	0.549097
RAB5A	1050.012865	1536.008913	1.462847708	0.54878
ZNF283	202.5182046	296.2480724	1.462821937	0.548754
LRRC4	36.32119974	53.10889814	1.462201098	0.548142
SIGMAR1	217.9271984	318.6533888	1.462201098	0.548142
MGAT2	627.3661773	916.9583194	1.461599864	0.547548
EIF3E	5104.779527	7460.970361	1.461565641	0.547515
VAMP8	197.0149925	287.9498071	1.461562917	0.547512
CFAP97	1070.925071	1565.052842	1.461402748	0.547354
GMCL1	409.4389789	598.3049306	1.461279852	0.547232
COPS8	213.5246288	312.0147765	1.461258958	0.547212
MACO1	938.8479811	1371.70326	1.461049379	0.547005
CAMSAP1-D	17.61027866	25.72462253	1.460773167	0.546732
TMEM250	52.83083598	77.1738676	1.460773167	0.546732
BSDC1	333.4946521	487.1081751	1.46061765	0.546579
CDK9	592.14562	864.6792478	1.460247646	0.546213
MAL2	1378.004305	2011.499517	1.459719327	0.545691
MRPL52	119.9700234	175.0933985	1.459476239	0.545451
FNDC10	34.11991491	49.789592	1.459253112	0.54523
CYB561D1	68.23982981	99.579184	1.459253112	0.54523
POLD2	494.1884449	721.1192575	1.459198945	0.545177
DGUOK	323.5888704	472.1712975	1.459170388	0.545148
MAGEH1	374.2184215	546.025859	1.459110048	0.545089
SNHG14	1103.944344	1610.693301	1.459034879	0.545014
CHST14	50.62955115	73.85456147	1.458724397	0.544707
TENT4B	455.6659603	664.6910532	1.458724397	0.544707
CCND3	134.2783748	195.8390619	1.458455706	0.544442
KIF21B	198.1156349	288.7796336	1.45763172	0.543626
THOP1	363.2119974	529.4293283	1.45763172	0.543626
MTX1	33.01927249	48.12993894	1.45763172	0.543626
KLRG2	16.50963624	24.06496947	1.45763172	0.543626
ENSG000002	16.50963624	24.06496947	1.45763172	0.543626
PDCD10	890.4197148	1297.848698	1.45756959	0.543565
CLYBL	48.42826632	70.53525534	1.456489375	0.542495
TBCC	177.203429	258.0760519	1.456382945	0.54239

ACOX2	129.8758051	107.7837549	0.829898647	-0.268993
MOB1B	340.0985066	282.2378738	0.829870959	-0.269041
INPP5A	550.3212081	456.6919926	0.829864424	-0.269052
RAB11FIP3	141.9828717	117.7843095	0.829567032	-0.26957
DCAF16	407.237694	337.7965104	0.829482426	-0.269717
CCDC159	338.9978642	281.1267011	0.829287529	-0.270056
CHD4	30.81798766	25.55697282	0.829287529	-0.270056
GAL3ST1	30.81798766	25.55697282	0.829287529	-0.270056
BRWD1	4435.588938	3677.981741	0.82919806	-0.270211
NUBP1	258.6509678	214.4563372	0.829134099	-0.270323
KTN1	3522.055732	2920.161938	0.829107249	-0.270369
DMAC1	301.5760221	250.0138646	0.829024346	-0.270514
CCT8P1	104.5610295	86.67147305	0.828907992	-0.270716
CDK5RAP1	461.1691724	382.2434196	0.828857266	-0.270804
UST	221.2291257	183.3435007	0.82874938	-0.270992
SLC25A13	368.7152095	305.5725011	0.82874938	-0.270992
ZNF622	337.8972218	280.0155283	0.828700298	-0.271078
MKKS	909.1306359	753.3751119	0.82867641	-0.271119
SELENOK	116.6680961	96.67202764	0.828607227	-0.27124
YTHDF1	1307.563191	1083.393413	0.828559125	-0.271323
PRKAB2	214.6252712	177.787637	0.828363016	-0.271665
VIPR2	85.85010847	71.11505481	0.828363016	-0.271665
ACYP1	85.85010847	71.11505481	0.828363016	-0.271665
PRF1	42.92505424	35.55752741	0.828363016	-0.271665
TMOD3	606.4539714	502.2500746	0.828175094	-0.271992
UBE2D1	238.8394043	197.7887462	0.828124433	-0.272081
SORD	1292.154197	1070.05934	0.82812047	-0.272087
BNIP1	97.95717505	81.11560939	0.828072159	-0.272172
USP36	1627.850134	1347.852523	0.827995462	-0.272305
ZRANB1	1100.642416	911.1616398	0.82784529	-0.272567
BOD1	409.4389789	338.9076831	0.827736734	-0.272756
COX18	189.3104956	156.6753551	0.827610506	-0.272976
SPRYD7	134.2783748	111.1172731	0.827514284	-0.273144
ALG11	237.7387619	196.6775735	0.827284419	-0.273545
TPT1-AS1	103.4603871	85.56030032	0.826986083	-0.274065
PDLIM7	1331.777324	1101.172177	0.826844066	-0.274313
CAMK1D	151.8886534	125.5625187	0.826674777	-0.274608
IFIH1	613.0578259	506.6947655	0.826504033	-0.274906
SEC24B	2741.700259	2265.681199	0.826378154	-0.275126
STAU1	2358.676698	1948.996971	0.826309503	-0.275246
TMEM183BP	60.5353329	50.00277291	0.826009712	-0.275769
PLK1	108.9635992	90.00499125	0.826009712	-0.275769
NME5	72.64239948	60.0033275	0.826009712	-0.275769
ADCY1	72.64239948	60.0033275	0.826009712	-0.275769
TMEM150A	72.64239948	60.0033275	0.826009712	-0.275769
L1CAM	36.32119974	30.00166375	0.826009712	-0.275769
TINAG	12.10706658	10.00055458	0.826009712	-0.275769
ANKRD1	12.10706658	10.00055458	0.826009712	-0.275769
SMN1	12.10706658	10.00055458	0.826009712	-0.275769
ENSG000002	12.10706658	10.00055458	0.826009712	-0.275769
ENSG000002	12.10706658	10.00055458	0.826009712	-0.275769
PAWR	622.9636076	514.4729747	0.825847559	-0.276053
SFRP4	894.8222845	738.9298664	0.825783934	-0.276164
SPIN1	1227.216294	1013.389531	0.825762774	-0.276201
RPL6	4031.653171	3329.073503	0.8257341	-0.276251
PDGFA	223.4304105	184.4546734	0.8255576	-0.276559
DPYD	573.4346989	473.3595836	0.825481235	-0.276693
PTPDC1	325.7901552	268.903801	0.825389585	-0.276853
NAPG	488.6852328	403.3557015	0.825389585	-0.276853
LPAR1	464.4710997	383.3545923	0.825357256	-0.276909
FMO5	150.788011	124.4513459	0.825339794	-0.27694
ZNF260	530.5096447	437.8020562	0.825248062	-0.2771
TALDO1	747.3362007	616.7008659	0.825198706	-0.277187
ZDHHC13	270.7580344	223.345719	0.824890458	-0.277726
LSM12	156.2912231	128.8960368	0.824717052	-0.278029
MRPL57	210.2227015	173.3429461	0.82456816	-0.278289
ABCA8	1353.790172	1115.617422	0.824069672	-0.279162
STK39	1299.858694	1071.170513	0.824066892	-0.279167
FAM50A	400.6338395	330.0183012	0.823740455	-0.279738
ATP10A	304.8779493	251.1250373	0.823690391	-0.279826
NOP53	1045.610295	861.1588669	0.823594479	-0.279994
ZFP64	674.6938012	555.5863657	0.823464459	-0.280222
SSRP1	1987.760204	1636.757433	0.823417951	-0.280303
PLAAT4	130.9764475	107.7837549	0.822924709	-0.281168
GTF2E1	321.3875856	264.4591101	0.822866601	-0.28127
ACSL4	825.4818122	678.9265389	0.82246093	-0.281981
EPPK1	1193.096379	981.1655219	0.822369038	-0.282142
DSE	462.2698148	380.0210742	0.822076333	-0.282656
UBALD1	462.2698148	380.0210742	0.822076333	-0.282656
NDRG1	3902.878008	3207.955676	0.821946181	-0.282884
MDFIC	94.6552478	77.7820912	0.821740928	-0.283244
LZTS1	47.3276239	38.8910456	0.821740928	-0.283244
PRICKLE3	289.4689555	237.7909645	0.821473115	-0.283715
PDGFRB	2221.096396	1824.545625	0.821461702	-0.283735
ITSN2	2302.543935	1891.215989	0.82135935	-0.283915
MXRA7	165.0963624	135.5630732	0.82111484	-0.284344
FAM32A	100.1584599	82.22678213	0.820966918	-0.284604
MCM9	518.4025781	425.5791561	0.820943364	-0.284645
RC3H1	2437.922952	2001.222089	0.820871754	-0.284771
NDUFAF6	258.6509678	212.2339917	0.820542036	-0.285351
TPR	6457.469056	5296.960411	0.820284289	-0.285804
GRPEL2	70.44111464	57.78098203	0.820273534	-0.285823
FAM47E	70.44111464	57.78098203	0.820273534	-0.285823
RIN1	35.22055732	28.89049102	0.820273534	-0.285823
RAD54B	35.22055732	28.89049102	0.820273534	-0.285823
ZNG1DP	35.22055732	28.89049102	0.820273534	-0.285823
M1AP	17.61027866	14.44524551	0.820273534	-0.285823
HSPG2	7506.381279	6157.008105	0.820236526	-0.285888
TRIP12	8969.13505	7354.852309	0.820018014	-0.286272
ARL6IP6	199.2162773	163.3423915	0.819924926	-0.286436
NOA1	679.0963709	556.6975385	0.819762205	-0.286723
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
UGT2B24P	6.638612267	3.333518194	1.991473236	0.993836
PPIAP85	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
BMS1P4.1	6.638612267	3.333518194	1.991473236	0.993836
GTF2A1-AS	6.638612267	3.333518194	1.991473236	0.993836
GABARAPL	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
ROCK1P1	6.638612267	3.333518194	1.991473236	0.993836
ENSG000002	6.638612267	3.333518194	1.991473236	0.993836
USP7	6453.56095	3241.290858	1.991046541	0.993527
SLF2	946.8320746	475.5819291	1.990891615	0.993415
DLST	1127.734259	566.698093	1.990008918	0.992775
PHF8	3236.32348	1627.868052	1.988074818	0.991372
VDAC2P5	307.0358173	154.4530097	1.98789145	0.991239
PIERCE1	130.2827657	65.55919115	1.987254013	0.990776
MAN1A2	5250.312477	2642.368755	1.986971904	0.990571
TRA2A	1059.688483	533.3629111	1.986805721	0.990451
NUP35	227.3724701	114.4507913	1.986639563	0.99033
ESCO1	816.5493088	411.1339106	1.986090876	0.989932
DTX1	97.0897044	48.89160018	1.985815642	0.989732
LRRC69	97.0897044	48.89160018	1.985815642	0.989732
ZFP3	482.9590424	243.3468282	1.984653123	0.988887
BAZ1A	2998.993092	1512.306087	1.983059591	0.987728
UBAP2	2577.441213	1300.072096	1.982537139	0.987348
FCF1	653.9033083	330.0183012	1.981415291	0.986531
ACTR3	3731.729921	1883.43778	1.981339634	0.986476
IPO11	1078.774493	544.4746384	1.981312659	0.986457
SENP8	50.61941854	25.55697282	1.980650012	0.985974
ESYT3	303.7165112	153.3418369	1.980650012	0.985974
SCAF4	3662.024492	1848.991425	1.980552447	0.985903
TAF5L	594.1557979	300.0166375	1.980409496	0.985799
PPFIA3	145.2196433	73.33740027	1.980158048	0.985616
LGALS8	429.0203178	216.6786826	1.979983968	0.985489
HNRNPKP4	94.6002248	47.78042745	1.979894904	0.985424
KLF7	473.001124	238.9021373	1.979894904	0.985424
MALL	219.9040313	111.1172731	1.979026529	0.984791
EIF3M	927.7460643	468.9148927	1.978495626	0.984404
CHTOP	549.3451651	277.7931829	1.977532924	0.983702
ARID2	2920.159571	1476.74856	1.977425034	0.983623
FASTKD1	804.1019108	406.6892197	1.977190129	0.983452
MFF	1293.699566	654.4807388	1.976680884	0.98308
RIPK2	472.1712975	238.9021373	1.976421404	0.982891
PATL1	1998.222292	1011.167186	1.976154211	0.982696
MYADM	463.0432056	234.4574463	1.974956278	0.981821
PTPN3	1724.379536	873.3817669	1.97437089	0.981393
CYTIP	30.70358173	15.55641824	1.973692225	0.980897
ENSG000002	30.70358173	15.55641824	1.973692225	0.980897
CISD2	300.3972051	152.2306642	1.97330286	0.980612
HRH2	54.7685512	27.77931829	1.971558504	0.979337
KHDRBS1	3735.879053	1895.66068	1.970753043	0.978747
MRPL19	418.2325728	212.2339917	1.970620113	0.97865
IER5L	205.7969803	104.4502368	1.970287351	0.978406
FPR3	126.9634596	64.44801842	1.970013395	0.978205
TREM1	72.1949084	36.66870014	1.968842859	0.977348
TIGD1	120.3248473	61.11450023	1.968842859	0.977348
BUD13	619.0505939	314.461883	1.968602961	0.977172
GOT1	306.2059908	155.5641824	1.968357922	0.976993
ZNF836	751.8228392	382.2434196	1.966869279	0.975901
ACTL6B	82.98265334	42.22456379	1.965269641	0.974727
TRERF1	716.1402983	364.4646559	1.964910141	0.974463
RIOK2	277.1620621	141.1189369	1.964031676	0.973818
VAMP2	277.1620621	141.1189369	1.964031676	0.973818
PNPLA8	901.1916152	458.9143381	1.963746914	0.973609
WTAP	1584.138852	806.711403	1.963699591	0.973574
HNRNPM	4386.463055	2234.568363	1.963002398	0.973062
SFRP1	187.5407965	95.5608549	1.962527404	0.972713
STX8	614.9014612	313.3507103	1.962342644	0.972577
STARD7	1327.722453	676.7041934	1.962042597	0.972356
DUT	522.790716	266.6814555	1.960356467	0.971116
RNF125	34.8527144	17.7787637	1.960356467	0.971116
HNRNPA1P	17.4263572	8.889381852	1.960356467	0.971116
DHX35	505.3643588	257.7920737	1.960356467	0.971116
PARP2	52.2790716	26.66814555	1.960356467	0.971116
CD109	631.4979919	322.2400921	1.959712672	0.970642
PPIG	1291.210086	658.9254297	1.959569365	0.970537
ELF3	890.4038703	454.4696472	1.959215265	0.970276
PLRG1	1057.199004	540.0299475	1.957667364	0.969136
TAGLN2P1	63.06681654	32.22400921	1.957137491	0.968745
CEP112	732.736829	374.4652105	1.956755417	0.968463
RTN3P1	280.4813683	143.3412824	1.956738238	0.968451
TMEM145	108.7072759	55.55863657	1.956622455	0.968365
LRATD2	960.9391256	491.1383473	1.956554871	0.968316
SMS	1252.208239	640.0354933	1.956466871	0.968251
ROCK1	2158.378813	1103.394522	1.956126091	0.967999
EPB41	2272.894875	1162.286677	1.955537235	0.967565
VWA5B2	165.1354801	84.44912759	1.955443293	0.967496
TNFAIP8L1	73.85456147	37.77987287	1.954865272	0.967069
HOMER2	855.5511559	437.8020562	1.954196294	0.966575
ZNF34	384.2096849	196.6775735	1.95350023	0.966061
SBNO1	4597.238995	2353.463845	1.953392657	0.965982
ANAPC7	1004.919932	514.4729747	1.953299748	0.965913
ICE1	3001.482571	1536.751888	1.953134137	0.965791
ZNF736	208.2864599	106.6725822	1.952577275	0.96538
STXBP1	1505.305332	771.1538756	1.952016814	0.964965
BYSL	162.6460005	83.33795486	1.951643772	0.96469
ATP13A3	5154.052599	2642.368755	1.950542515	0.963875
HNRNPU	10820.41559	15757.57604	1.456281961	0.54229
CNOT6LP1	31.91863007	46.47028587	1.455898507	0.54191
PPIL3	366.5139246	533.578461	1.455820434	0.541832
ANKRD27	554.7237778	807.421217	1.455537421	0.541552
RPS6KA6	396.2312699	576.7294407	1.455537421	0.541552
C3orf38	599.8501169	872.9775131	1.45532607	0.541342
DYRK4	141.9828717	206.6268068	1.455293898	0.541311
MBD4	753.9400552	1097.030677	1.455063529	0.541082
TUBGCP4	250.9464709	365.1236747	1.45498629	0.541006
ASF1A	156.2912231	227.3724701	1.454799992	0.540821
ACOT11	93.55460539	136.0915515	1.454675063	0.540697
NDOR1	124.372593	180.9021843	1.454518072	0.540541
TJP2	30.81798766	44.8106328	1.454041494	0.540468
ENSG000002	15.40899383	22.4053164	1.454041494	0.540468
DNAH10	46.22698148	67.2159492	1.454041494	0.540468
ENSG000002	46.22698148	67.2159492	1.454041494	0.540468
OSGEPL1	138.6809445	201.6478476	1.454041494	0.540468
SF3B2	2054.899391	2986.545694	1.453378061	0.53941
ZNF687	648.2783832	941.8531154	1.452852879	0.538889
ADK	346.7023611	503.7047058	1.452844752	0.538881
EIF4EBP2	662.5867346	962.5987787	1.452789089	0.538825
TMC7	45.12633907	65.55629614	1.452727996	0.538765
PIH1D1	210.2227015	305.3761643	1.452631719	0.538669
AKT1S1	193.7130653	281.3111948	1.452205583	0.538246
ZNF699	162.8950776	236.500562	1.451858248	0.537901
PFAS	338.9978642	492.0871343	1.451593612	0.537638
PPP4R2	189.3104956	274.6725825	1.450910483	0.536959
TIE1	72.64239948	105.3879697	1.450777652	0.536826
IFT122	624.06425	905.3407479	1.45071721	0.536766
THAP1	318.0856583	461.3835526	1.450500959	0.536551
EML2	346.7023611	502.8748792	1.450451268	0.536502
PEBP1	548.1199233	794.973819	1.450364756	0.536416
RNPEP	588.8436927	853.8915028	1.450115733	0.536168
STON2	846.3940181	1227.313443	1.45004976	0.536102
CLCN2	114.4668113	165.9653067	1.449898925	0.535952
L3MBTL1	57.23340565	82.98265334	1.449898925	0.535952
AKAP3	28.61670282	41.49132667	1.449898925	0.535952
SRP9P1	14.30835141	20.74566333	1.449898925	0.535952
C20orf203	14.30835141	20.74566333	1.449898925	0.535952
ABCA4	14.30835141	20.74566333	1.449898925	0.535952
FLJ46284	14.30835141	20.74566333	1.449898925	0.535952
TP53INP2	299.3747372	433.999277	1.449685705	0.53574
ZNF132	84.74946605	122.8143269	1.449145731	0.535203
UBXN2B	461.1691724	668.0103594	1.448514774	0.534574
AKAP10	585.5417655	848.0827171	1.448372716	0.534433
BRCC3	376.4197064	545.1960324	1.448372716	0.534433
PSMD7P1	41.82441182	60.57733694	1.448372716	0.534433
AP1M2	374.2184215	541.8767263	1.448022585	0.534084
MACROD2	110.0642416	159.3266944	1.447579087	0.533642
TPGS1	27.51606041	39.8316736	1.447579087	0.533642
DYNLT2B	27.51606041	39.8316736	1.447579087	0.533642
EIF4EP2	137.580302	199.158368	1.447579087	0.533642
NIFK	150.788011	218.2443783	1.447358956	0.533423
PPP1R7	342.2997915	495.4064404	1.447288175	0.533352
POLH	314.7837311	455.5747668	1.447262745	0.533327
MED17	40.7237694	58.91768387	1.446764009	0.53283
TIMM44	257.5503254	372.5921135	1.446676928	0.532743
CBS	134.2783748	194.1794088	1.446095912	0.532163
SMG5	1072.025713	1550.115964	1.445969014	0.532037
KCNH2	267.4561072	386.6991645	1.445841595	0.53191
SLC25A25	200.3169198	289.6094601	1.445756357	0.531824
DAZAP1	1089.635992	1575.01076	1.44544671	0.531515
MFAP3	225.6316953	326.1218276	1.445372412	0.531441
DCAF8	92.45396297	133.6020719	1.445065929	0.531135
TPRA1	92.45396297	133.6020719	1.445065929	0.531135
CUL2	726.4239948	1049.730565	1.445065929	0.531135
NIFK-AS1	13.207709	19.08601027	1.445065929	0.531135
ENSG000002	13.207709	19.08601027	1.445065929	0.531135
NAA20	746.2355583	1077.944667	1.44450992	0.53058
MTMR6	366.5139246	529.4293283	1.444499902	0.53057
PNN	1254.732355	1812.341149	1.444404571	0.530475
PTCD3	959.760187	1385.810311	1.443913104	0.529984
PLEKHH3	271.8586768	392.5079503	1.443794088	0.529865
USP31	1020.29552	1472.942097	1.443642619	0.529714
CWC15	605.353329	873.8073396	1.443466646	0.529538
COPE	333.4946521	481.2993894	1.443199722	0.529271
MGAT1	648.2783832	935.2145031	1.442612506	0.528684
ZNF564	25.31477557	36.51236747	1.442334235	0.528406
ETNK2	112.2655265	161.816174	1.441370108	0.527441
ADNP	5920.355557	8532.276416	1.441176351	0.527247
ZNF483	507.3961539	731.0771759	1.440840988	0.526911
FBXO30	871.7087937	1255.527545	1.44030616	0.526376
ZNF507	961.9614718	1384.980484	1.439746315	0.525815
ZNF195	595.4475472	857.210809	1.439607591	0.525676
SRBD1	1018.094235	1465.473658	1.439428304	0.525496
PIGBOS1	24.21413316	34.8527144	1.439354206	0.525422
ARHGAP24	192.6124229	277.1620621	1.438962545	0.525029
MMGT1	419.3447606	603.2838898	1.438634619	0.5247
SLC44A3	202.5182046	291.2691132	1.438236695	0.524301
DEGS2	47.3276239	68.04577574	1.437760237	0.523823
DZANK1	224.5310529	322.8025215	1.437674287	0.523737
PIP4K2A	744.0342734	1069.646402	1.43763055	0.523693
MMRN2	82.54818122	118.6651943	1.437526454	0.523589
MAPK12	82.54818122	118.6651943	1.437526454	0.523589
DCTN3	200.3169198	287.9498071	1.43747122	0.523533
INTS4	647.1777408	930.2355439	1.437372588	0.523434
SPTLC3	670.2912315	963.4286052	1.437328373	0.52339
DARS1	598.7494745	860.5301151	1.43721231	0.523273
LRRN3	35.22055732	50.61941854	1.43721231	0.523273
SMIM26	35.22055732	50.61941854	1.43721231	0.523273
E2F5	268.5567496	385.869338	1.436826066	0.522885

MAGOHB	128.7751627	105.5614095	0.819734235	-0.286772
SV2A	93.55460539	76.67091847	0.819531205	-0.287129
PUS10	93.55460539	76.67091847	0.819531205	-0.287129
TUBGCP3	356.6081429	292.2384284	0.819494547	-0.287194
CDC23	397.3319123	325.5736103	0.819399601	-0.287361
RASGEF1B	157.3918655	128.8960368	0.8189498	-0.288153
ZNF174	99.05781747	81.11560939	0.818871357	-0.288291
TMEM18	139.7815869	114.4507913	0.818783031	-0.288447
ZNF624	279.5631737	228.9015827	0.818783031	-0.288447
DAPK2	81.44753881	66.67036389	0.818568183	-0.288826
RPL5	2183.674554	1786.765752	0.818238116	-0.289407
MGST2	510.6980812	417.800947	0.818097742	-0.289655
LMTK2	1548.60388	1266.736914	0.817986401	-0.289851
KLHL12	753.9400552	616.7008659	0.817970688	-0.289879
RRP36	197.0149925	161.1200461	0.817806016	-0.290169
DNM1	243.241974	198.8999189	0.817703933	-0.29035
ALG13	3901.777366	3190.176912	0.817621461	-0.290495
NUP98	2488.552503	2034.557271	0.817566545	-0.290592
ACVR2A	428.1498999	350.0194104	0.817516039	-0.290681
ZNF449	161.7944352	132.229555	0.817268869	-0.291117
CCNJL	69.34047223	56.6698093	0.817268869	-0.291117
PCOLCE-AS1	46.22698148	37.77987287	0.817268869	-0.291117
CD99L2	254.2483982	207.7893008	0.817268869	-0.291117
UBR1	1592.629576	1301.183269	0.81700308	-0.291587
RAB40B	121.0706658	98.8943731	0.816831827	-0.291889
AKAP13	5516.41979	4504.694253	0.816597435	-0.292303
PYCR1	586.6424079	478.9154472	0.816366906	-0.29271
HIKESHI	230.034265	187.7881916	0.81634878	-0.292742
ENSG000002	51.73019357	42.22456379	0.816246004	-0.292924
RNF146	396.2312699	323.3512648	0.816067003	-0.29324
UBE2R2	1026.899374	837.8242395	0.815877641	-0.293575
PPP1CC	2191.379051	1787.876925	0.815868402	-0.293592
ATOSA	986.175605	804.4890576	0.815766536	-0.293772
SPRY2	137.580302	112.2284459	0.81573048	-0.293836
B4GALT2	280.6638162	228.9015827	0.815572117	-0.294116
NFIC	3469.224896	2829.045774	0.81546912	-0.294298
RNASET2	286.1670282	233.3462736	0.815419844	-0.294385
BTBD10	440.2569665	358.9087923	0.815225697	-0.294729
EMC6	148.5867262	121.1178277	0.815132218	-0.294894
FOXK2	1028.000017	837.8242395	0.815004111	-0.295121
NT5DC2	576.7366261	470.0260654	0.814975231	-0.295172
LGALS3BP	1375.80302	1121.173286	0.814922826	-0.295265
TBC1D32	462.2698148	376.687556	0.814865137	-0.295367
TPPP	62.73661773	51.11394565	0.814738625	-0.295591
VTI1B	849.6959454	692.2606117	0.814715682	-0.295631
ZNF146	661.4860922	538.9187747	0.814709154	-0.295643
KRAS	792.4625397	645.591357	0.814664826	-0.295721
PKDREJ	34.11991491	27.77931829	0.814167279	-0.296603
BIN3	102.3597447	83.33795486	0.814167279	-0.296603
ARPC2	2267.323378	1845.657907	0.814024998	-0.296855
ZNF354C	176.1027866	143.3412824	0.813963737	-0.296964
SCFD1	1384.60816	1126.72915	0.813753076	-0.297337
FMNL3	584.4411231	475.5819291	0.813737963	-0.297364
ZNF287	305.9785917	248.9026918	0.813464401	-0.297849
ETFDH	747.3362007	607.8114841	0.81330395	-0.298133
NCOR2	7240.025814	5888.104304	0.813271175	-0.298192
NDUFS6	316.9850159	257.7920737	0.813262649	-0.298207
TMEM168	996.0813867	810.0449212	0.813231662	-0.298262
RAD52	248.7451861	202.2334371	0.813014476	-0.298647
GNE	514.0000084	417.800947	0.812842296	-0.298953
ZYX	129.8758051	105.5614095	0.812787335	-0.29905
TRRAP	5131.194945	4170.231261	0.812721268	-0.299167
CSF3R	135.3790172	110.0061004	0.81257866	-0.299421
ZNF341	225.6316953	183.3435007	0.81257866	-0.299421
EXOC6B	868.4068665	705.5946845	0.812516243	-0.299531
PDE3B	693.4047223	563.3645748	0.812461405	-0.299629
ARV1	191.5117804	155.5641824	0.81229563	-0.299923
GLI4	197.0149925	160.0088733	0.812165974	-0.300154
LUZP1	1416.52679	1150.063777	0.811889888	-0.300644
CENPT	325.7901552	264.4591101	0.811746782	-0.300898
PIK3C2A	2700.97649	2192.343799	0.811685628	-0.301007
SRSF10	857.4004423	695.5941299	0.811282681	-0.301723
BCLAF3	1109.447556	900.0499125	0.811259539	-0.301765
WASHC1	61.63597531	50.00277291	0.811259539	-0.301765
TRIM41	683.4989405	554.475193	0.811230508	-0.301816
TRMT10B	190.411138	154.4530097	0.811155331	-0.30195
GDPD1	128.7751627	104.4502368	0.811105454	-0.302039
SEMA3D	391.8287002	317.7954012	0.811056977	-0.302125
BMPR1A	1119.353337	907.8281216	0.811029093	-0.302174
RSF1	2781.323386	2255.680645	0.811009844	-0.302209
SP3	2993.747372	2427.912418	0.810994421	-0.302236
ICAM1	212.4239863	172.2317734	0.810792493	-0.302595
ABI2	1473.760195	1194.510686	0.810519032	-0.303082
ZNF593	78.14561156	63.33684569	0.810497793	-0.30312
NLGN4X	156.2912231	126.6736914	0.810497793	-0.30312
TSGA10	323.5888704	262.2367646	0.810401063	-0.303292
TBC1D2B	998.2826716	808.9337485	0.810325343	-0.303427
STK10	418.2441182	338.9076831	0.810310697	-0.303453
KHDC4	1313.066403	1063.392304	0.809854172	-0.304266
PLRG1	666.9893043	540.0299475	0.809653084	-0.304624
RCL1	355.5075005	287.7937374	0.809529298	-0.304845
KLC1	366.5139246	296.6831193	0.809472981	-0.304945
RNF214	383.0235609	310.0171921	0.809394574	-0.305085
PEX3	388.526773	314.461883	0.80936992	-0.305129
SAP18	394.029985	318.9065739	0.809345953	-0.305172
TMCO1	943.2505508	763.3756665	0.809303176	-0.305248
CTSH	1353.790172	1095.616313	0.809295514	-0.305261
ZNF432	465.5717421	376.687556	0.809085952	-0.305635
CASD1	670.2912315	542.2522929	0.808980138	-0.305824
SMU1	1561.811589	1263.403396	0.808934576	-0.305905
CAMK2D	851.8972302	688.9270935	0.808697422	-0.306328
UTP14A	301.2270316	154.4530097	1.950282693	0.963683
ALDH3A2	1986.604721	1018.945395	1.9496675	0.963228
ATG10	127.7932861	65.55919115	1.949281007	0.962942
TMEM116	238.1602151	122.2290005	1.948475519	0.962346
MAGI2	270.5234499	138.8965914	1.947660825	0.961742
EFR3A	1926.027384	988.943731	1.947560133	0.961668
NOMO1	456.4045934	234.4574463	1.946641493	0.960987
XPO1	6377.216909	3276.848385	1.946143416	0.960618
PLS3	296.2480724	152.2306642	1.946047296	0.960547
RFK	307.0358173	157.7865279	1.945893743	0.960433
PAXBP1	2390.730243	1228.957041	1.945332638	0.960017
PPIL1	443.1273688	227.7904099	1.945329344	0.960014
AASDHPPT	289.6094601	148.897146	1.945030297	0.959793
DNAH3	289.6094601	148.897146	1.945030297	0.959793
ZNF468	665.5208798	342.2412013	1.944596025	0.95947
ATP5MF	125.3038065	64.44801842	1.944261586	0.959222
FANCG	423.211532	217.7898554	1.943210492	0.958442
VIRMA	4942.446833	2543.474382	1.943187188	0.958425
ZCCHC7	865.5090743	445.5802653	1.942431346	0.957864
PIH1D2	43.15097974	22.22345463	1.941686405	0.95731
CARMIL2	10.78774493	5.555863657	1.941686405	0.95731
MIATNB	10.78774493	5.555863657	1.941686405	0.95731
ENSG000002	10.78774493	5.555863657	1.941686405	0.95731
ENSG000002	10.78774493	5.555863657	1.941686405	0.95731
ENSG000002	10.78774493	5.555863657	1.941686405	0.95731
POP7	140.2406841	72.22622754	1.941686405	0.95731
COX14	53.93872467	27.77931829	1.941686405	0.95731
SPIN1	1966.688884	1013.389531	1.940703771	0.95658
STK24	1837.235945	946.7191672	1.940634571	0.956528
BTBD3	1871.258833	964.4979309	1.940137737	0.956159
CTNNBL1	599.1347571	308.9060193	1.939537334	0.955713
RAB30	346.8674909	178.8988098	1.938903291	0.955241
ZNF484	943.5127684	486.6936564	1.938617354	0.955028
KCNC4	708.6718595	365.5758286	1.938508523	0.954947
ESAM	101.2388371	52.22511838	1.938508523	0.954947
CEP126	712.8209922	367.7981741	1.938076484	0.954626
SRGAP1	600.7944102	310.0171921	1.93793901	0.954523
CHRNA4	170.1144393	87.78264578	1.937905127	0.954498
ENSG000002	79.6633472	41.11339106	1.937649635	0.954308
RAB10	1442.238515	744.4857301	1.937227883	0.953994
DNAJB9	185.0513169	95.5608549	1.936476156	0.953434
IRX3	174.263572	90.00499125	1.936154535	0.953194
CFAP46	210.7759395	108.8949277	1.935590059	0.952773
TMEM45A	105.3879697	54.44746384	1.935590059	0.952773
RANBP9	3692.728073	1907.88358	1.935510171	0.952714
PTPDC1	520.3012364	268.903801	1.934897292	0.952257
TMED8	378.4008992	195.5664007	1.934897292	0.952257
TPH1	47.3001124	24.44580009	1.934897292	0.952257
SEC11B	47.3001124	24.44580009	1.934897292	0.952257
H2AZ2P1	47.3001124	24.44580009	1.934897292	0.952257
RIPK1	819.0387884	423.3568107	1.934630004	0.952058
EIF2S2	1315.275055	680.0377116	1.93412076	0.951678
NOLC1	754.3123188	390.0216287	1.934026893	0.951608
TOMM40	277.1620621	143.3412824	1.933581573	0.951276
TMEM237	558.473257	288.9049102	1.933069454	0.950893
IK	741.0350943	383.3545923	1.933027826	0.950862
ZGRF1	741.0350943	383.3545923	1.933027826	0.950862
HNRNPU	15757.57604	8156.007849	1.932020706	0.950111
LSM4	742.6947474	384.4657651	1.931757818	0.949914
TAF9B	804.9317374	416.6897743	1.931729039	0.949893
GTF2A2	482.9590424	250.0138646	1.931729039	0.949893
CSPG5	186.71097	96.67202764	1.931385682	0.949636
SH3BGRL	362.6341951	187.7881916	1.931080927	0.949409
CAMSAP2	2604.825488	1348.963696	1.930982647	0.949335
SAP30L	175.9232251	91.11616398	1.930757589	0.949167
IRX5	175.9232251	91.11616398	1.930757589	0.949167
ADSL	87.96161254	45.55808199	1.930757589	0.949167
CD44	242.3093477	125.5625187	1.929790437	0.948444
FLII	102.8984901	53.33629111	1.929239698	0.948032
LSM12P1	154.3477352	80.00443666	1.929239698	0.948032
KDM4D	51.44924507	26.66814555	1.929239698	0.948032
CHORDC1P	25.72462253	13.33407278	1.929239698	0.948032
OAT	1238.931014	642.2578388	1.929024357	0.947871
DYNLT3	477.9800832	247.7915191	1.928960624	0.947824
SLC39A14	272.1831029	141.1189369	1.92874967	0.947666
EIF4E2	780.0369414	404.4668742	1.928555813	0.947521
FPR1	66.38612267	34.44635467	1.927232164	0.94653
LRIF1	1010.728718	524.4735292	1.927130086	0.946454
RNPS1	1926.85721	1000.055458	1.926750356	0.94617
ARL2BP	321.1428684	166.6759097	1.926750356	0.94617
RTN4R	81.32300027	42.22456379	1.925964248	0.945581
TRAPPC2	121.9845004	63.33684569	1.925964248	0.945581
DLG3	877.1266458	455.5808199	1.925293181	0.945078
FOXRED2	795.8036455	413.3562561	1.925224631	0.945027
ZMYND19	344.3780113	178.8988098	1.924987717	0.944849
CCNK	1490.368454	774.4873938	1.924328873	0.944355
PRMT3	489.5976547	254.4585555	1.924076216	0.944166
TXLNA	831.4861864	432.2461925	1.923640279	0.943839
RPP30	211.605766	110.0061004	1.923582103	0.943795
MSANTD4	282.1410213	146.6748005	1.923582103	0.943795
SYTL1	141.0705107	73.33740027	1.923582103	0.943795
ARMCX5	367.6131543	191.1217098	1.923450531	0.943697
DRAM2	568.4311754	295.5719466	1.92315672	0.943476
SUPT16HP1	85.47213294	44.44690926	1.923016344	0.943371
PLEKHJ1	100.4090105	52.22511838	1.922619109	0.943073
COQ3	100.4090105	52.22511838	1.922619109	0.943073
GNL3	697.8841146	363.3534832	1.920675449	0.941614
ACTRT3	44.8106328	23.33462736	1.920349192	0.941369
DMAC2	612.4119816	318.9065739	1.920349192	0.941369
ENSG000002	29.8737552	15.55641824	1.920349192	0.941369
CHIA	14.9368776	7.77820912	1.920349192	0.941369
VASH1	116.6680961	167.6249597	1.436767765	0.522827
PEX16	58.33404806	83.81247987	1.436767765	0.522827
PLEKHG3	347.8030036	499.5555731	1.436317594	0.522375
MBOAT2	614.1584683	882.105605	1.436283387	0.52234
RPSAP47	46.22698148	66.38612267	1.436090364	0.522147
ERCC6L2-AS	23.11349074	33.19306133	1.436090364	0.522147
ZKSCAN8	611.9571835	878.7862988	1.436025792	0.522082
CEP70	1056.61672	1516.922903	1.435641586	0.521696
OPLAH	321.3875856	461.3835526	1.435598552	0.521652
RCL1	355.5075005	510.343318	1.435534602	0.521588
ZFP90	309.280519	443.9571954	1.435451534	0.521505
MIB1	979.5717505	1405.726148	1.435041534	0.521092
SLC50A1	170.5995745	244.7988273	1.434932227	0.520983
RICTOR	1756.625296	2519.353355	1.434200771	0.520247
SNRNP200	6564.231371	9413.552195	1.434067702	0.520113
CLOCK	1674.077115	2400.688161	1.434036783	0.520082
PPT1	1522.188462	2182.443783	1.433753991	0.519798
ZNF700	356.6081429	511.1731446	1.433430937	0.519472
TOP2B	9207.974455	13194.24188	1.432914692	0.518953
SETSIP	11.00642416	15.76670413	1.432500138	0.518535
ENSG000002	11.00642416	15.76670413	1.432500138	0.518535
ENSG000002	11.00642416	15.76670413	1.432500138	0.518535
MED4	340.0985066	487.1081751	1.432256142	0.51829
HPS3	669.1905891	958.449646	1.432252129	0.518285
PFKL	1559.610304	2233.063201	1.431808443	0.517838
POP7	97.95717505	140.2406841	1.431653006	0.517682
FCF1	456.7666028	653.9033083	1.431591768	0.51762
KRBA2	75.94432672	108.7072759	1.431407461	0.517434
WDR3	737.4304189	1055.53935	1.431374843	0.517402
ANOS1	605.353329	866.3389008	1.431129325	0.517154
HDGFL2	366.5139246	524.4503691	1.430915264	0.516938
TEX15	42.92505424	61.40716347	1.43056694	0.516587
NUDT2	42.92505424	61.40716347	1.43056694	0.516587
C12orf57	544.8179961	779.2071148	1.430215449	0.516232
CDK16	840.8908061	1202.418647	1.429934348	0.515949
MNAT1	212.4239863	303.7165112	1.429765614	0.515779
RNF4	116.6680961	166.7951332	1.429655053	0.515667
SETMAR	210.2227015	300.3972051	1.428947506	0.514953
SCAF4	2563.396188	3662.024492	1.428583108	0.514585
SART3	931.1434842	1330.211933	1.428578898	0.514581
SLC9A3-AS1	62.73661773	89.6212656	1.428531994	0.514533
NDUFA9	41.82441182	59.7475104	1.428531994	0.514533
N4BP2	932.2441266	1331.04176	1.427782403	0.513776
AOC2	51.73019357	73.85456147	1.427687708	0.51368
B3GALT2	61.63597531	87.96161254	1.427114799	0.513101
FAT1	13091.0409	18681.88475	1.427074049	0.51306
TRIR	512.899366	731.9070024	1.426999234	0.512985
SPPL2A	512.899366	731.9070024	1.426999234	0.512985
CHCHD7	102.3597447	146.0494699	1.426825265	0.512809
YME1L1	3178.655298	4535.002005	1.426704559	0.512687
MCPH1	40.7237694	58.08785734	1.426387051	0.512366
ABLIM2	91.35332055	130.2827657	1.426141545	0.512117
RPL7P1	101.2591023	144.3898168	1.425944073	0.511917
ST14	938.8479811	1338.510198	1.425694282	0.511665
PRELID1	332.3940097	473.8309506	1.425509897	0.511478
USP32	2116.535367	3016.419449	1.42516846	0.511132
RNF181	230.034265	327.7814807	1.42492459	0.510886
RNF126	169.4989321	241.4795212	1.424666918	0.510625
RARS1	1828.167053	2603.995662	1.424375118	0.510329
CCNJL	69.34047223	98.74935747	1.424122944	0.510074
ASIC3	29.71734524	42.3211532	1.424122944	0.510074
PDRG1	79.24625397	112.8564085	1.424122944	0.510074
SNAI3	9.905781747	14.10705107	1.424122944	0.510074
ZNF284	9.905781747	14.10705107	1.424122944	0.510074
SMN2	9.905781747	14.10705107	1.424122944	0.510074
RPS18P9	9.905781747	14.10705107	1.424122944	0.510074
RPSAP12	9.905781747	14.10705107	1.424122944	0.510074
ARNT2-DT	9.905781747	14.10705107	1.424122944	0.510074
SCX	9.905781747	14.10705107	1.424122944	0.510074
ENSG000002	9.905781747	14.10705107	1.424122944	0.510074
ENSG000002	9.905781747	14.10705107	1.424122944	0.510074
MRPL10	157.3918655	224.053164	1.423537127	0.50948
TNS2-AS1	147.4860838	209.9461129	1.423497781	0.50944
NR2C2	893.721642	1272.124076	1.423400772	0.509342
USP33	1325.173469	1886.19571	1.423357586	0.509298
MED6	303.7773069	432.3396239	1.42321238	0.509151
MRPL50	400.6338395	570.0908284	1.422972231	0.508908
COX11	224.5310529	319.4832153	1.422891004	0.508825
KCNC3	214.6252712	305.3761643	1.422834145	0.508768
FBXO48	58.33404806	82.98265334	1.422542342	0.508472
OCIAD1	876.1113634	1245.569627	1.421702398	0.50762
PLPBP	298.2740948	424.0413586	1.421649972	0.507566
MCM3AP	2062.603888	2930.947316	1.42099379	0.5069
IPPK	57.23340565	81.32300027	1.420900947	0.506806
NAV2	847.4946605	1204.0783	1.420750308	0.506653
AP5S1	47.3276239	67.2159492	1.420226575	0.506121
CYP2R1	113.3661689	160.9863475	1.420056345	0.505948
BRD8	745.1349158	1058.02883	1.419915786	0.505805
CELSR2	742.933631	1054.709524	1.419655108	0.50554
ATP6V1B2	761.6445521	1081.263973	1.419643809	0.505529
POLR2M	18.71092108	26.55444907	1.419195183	0.505073
PKP3	93.55460539	132.7722453	1.419195183	0.505073
STRN	1203.002161	1706.953179	1.418911149	0.504784
RPL15	1777.537502	2521.842835	1.418728343	0.504598
FAAP100	184.9079259	262.2251845	1.418139235	0.503999
THEM6	73.74304189	104.5581432	1.417871307	0.503727
PTPN3	1216.20987	1724.379536	1.417830573	0.503685
RNF167	458.9678876	650.5840022	1.41749351	0.503342
TSPAN18	55.03212081	78.00369414	1.417421189	0.503269
FAF1	1042.308368	1477.091229	1.417134578	0.502977
TOE1	100.1584599	141.9003372	1.416758378	0.502594

FUBP3	1504.578183	1216.734141	0.80868788	-0.306345
KRBOX5	232.2355498	187.7881916	0.808610877	-0.306482
C1orf131	237.7387619	192.2328825	0.808588726	-0.306522
EYA2	1005.987168	813.3784394	0.808537589	-0.306613
UQCR10	287.2676707	232.2351009	0.808427556	-0.30681
PDE4DIPP2	66.03854498	53.33629111	0.807653941	-0.308191
ADAM21	16.50963624	13.33407278	0.807653941	-0.308191
CDH12	16.50963624	13.33407278	0.807653941	-0.308191
GRM5	16.50963624	13.33407278	0.807653941	-0.308191
PRSS27	16.50963624	13.33407278	0.807653941	-0.308191
ILF3-DT	16.50963624	13.33407278	0.807653941	-0.308191
AXDND1	49.52890873	40.00221833	0.807653941	-0.308191
EFCAB13	137.580302	111.1172731	0.807653941	-0.308191
RBFOX1	27.51606041	22.22345463	0.807653941	-0.308191
ENSG000002	27.51606041	22.22345463	0.807653941	-0.308191
CDIP1	38.52248457	31.11283648	0.807653941	-0.308191
MAP4K4	3120.32125	2520.139755	0.807653941	-0.308191
FAM76A	170.5995745	137.7854187	0.807653941	-0.308191
IKZF4	154.0899383	124.4513459	0.807653941	-0.308191
PHACTR1	60.5353329	48.89160018	0.807653941	-0.308191
ABHD17C	88.0513933	71.11505481	0.807653941	-0.308191
SNX20	22.01284833	17.7787637	0.807653941	-0.308191
PSG8	11.00642416	8.889381852	0.807653941	-0.308191
PRG3	11.00642416	8.889381852	0.807653941	-0.308191
PPIAP72	11.00642416	8.889381852	0.807653941	-0.308191
AMZ1	11.00642416	8.889381852	0.807653941	-0.308191
LINC02449	11.00642416	8.889381852	0.807653941	-0.308191
ENSG000002	11.00642416	8.889381852	0.807653941	-0.308191
TPTEP1	11.00642416	8.889381852	0.807653941	-0.308191
POU1F1	5.503212081	4.444690926	0.807653941	-0.308191
LRP6	5.503212081	4.444690926	0.807653941	-0.308191
KISS1R	5.503212081	4.444690926	0.807653941	-0.308191
FEZF1	5.503212081	4.444690926	0.807653941	-0.308191
CSRP3	5.503212081	4.444690926	0.807653941	-0.308191
SCGB1A1	5.503212081	4.444690926	0.807653941	-0.308191
ZSWIM2	5.503212081	4.444690926	0.807653941	-0.308191
PSCA	5.503212081	4.444690926	0.807653941	-0.308191
FKBP9P1	5.503212081	4.444690926	0.807653941	-0.308191
DLSTP1	5.503212081	4.444690926	0.807653941	-0.308191
GABRR3	5.503212081	4.444690926	0.807653941	-0.308191
HMX2	5.503212081	4.444690926	0.807653941	-0.308191
OR52K1	5.503212081	4.444690926	0.807653941	-0.308191
PLCG2	5.503212081	4.444690926	0.807653941	-0.308191
GPX6	5.503212081	4.444690926	0.807653941	-0.308191
RNU5B-1	5.503212081	4.444690926	0.807653941	-0.308191
FOXO6	5.503212081	4.444690926	0.807653941	-0.308191
OR6C3	5.503212081	4.444690926	0.807653941	-0.308191
TRIM77	5.503212081	4.444690926	0.807653941	-0.308191
NOC2LP2	5.503212081	4.444690926	0.807653941	-0.308191
TNRC18P2	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
ATP5MC2P4	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
KLF3-AS1	5.503212081	4.444690926	0.807653941	-0.308191
ZNRF2P1	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
RPL7P19	5.503212081	4.444690926	0.807653941	-0.308191
RAC1P2	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
HLX-AS1	5.503212081	4.444690926	0.807653941	-0.308191
ASB9P1	5.503212081	4.444690926	0.807653941	-0.308191
CAP2P1	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
ENSG000002	5.503212081	4.444690926	0.807653941	-0.308191
PICK1	357.7087853	288.9049102	0.807653941	-0.308191
ITGB2	845.2933757	682.2600571	0.807128125	-0.30913
KANSL2	422.6466879	341.1300286	0.807128125	-0.30913
TTC6	3143.434741	2536.807346	0.807017659	-0.309328
ZNF761	871.7087937	703.372339	0.806889117	-0.309558
COQ2	246.5439013	198.8999189	0.806752542	-0.309802
ADCY3	591.0449776	476.6931018	0.806525933	-0.310207
NOL11	782.556758	631.1461115	0.806518	-0.310221
BLZF1	388.526773	313.3507103	0.806509955	-0.310236
RFX5	366.5139246	295.5719466	0.806441247	-0.310359
SYT1	158.4925079	127.7848641	0.806251764	-0.310698
GSE1	945.4518356	762.2644938	0.806243602	-0.310712
SLC15A2	311.4818038	251.1250373	0.806226991	-0.310742
ATL2	1229.417579	991.1660764	0.806207828	-0.310776
DPH3	130.9764475	105.5614095	0.805957189	-0.311225
SP2	703.310504	566.698093	0.80575804	-0.311581
TCP1	2609.623169	2102.338808	0.80561011	-0.311846
NIF3L1	299.3747372	241.1244827	0.805426954	-0.312174
BID	97.95717505	78.89326393	0.80538525	-0.312249
ADGRD1	375.319064	302.238983	0.805285454	-0.312428
FAM241A	92.45396297	74.44857301	0.805250209	-0.312491
MCM5	353.3062156	284.4602192	0.805137885	-0.312692
EPB41L2	1999.86727	1610.089288	0.805098074	-0.312764
DCAF13	635.0706742	511.1394565	0.804854447	-0.3132
TBC1D23	764.9464793	615.5896932	0.804748711	-0.31339
TTLL3	222.3297681	178.8988098	0.804655226	-0.313557
RGMA	135.3790172	108.8949277	0.804370795	-0.314067
BCL2	129.8758051	104.4502368	0.804231679	-0.314317
RNF169	735.2291341	591.1438931	0.804026753	-0.314685
BEND4	183.8072835	147.7859733	0.804026753	-0.314685
NMT1	998.2826716	802.2667121	0.803646838	-0.315366
RGS22	221.2291257	177.787637	0.803635762	-0.315386
SCML2	107.8629568	86.67147305	0.803533258	-0.31557
RGS7BP	14.9368776	7.77820912	1.920349192	0.941369
SNX10-AS1	14.9368776	7.77820912	1.920349192	0.941369
ENSG000002	14.9368776	7.77820912	1.920349192	0.941369
SLC28A2-AS	14.9368776	7.77820912	1.920349192	0.941369
PPP1R8	1393.27875	725.5957936	1.920185814	0.941246
ATP2C1	8290.796895	4319.128407	1.919553232	0.940771
FAM136A	247.2883069	128.8960368	1.918509777	0.939986
RPLP1	667.1805328	347.7970649	1.918304092	0.939831
KIF3A	1084.583279	565.5869203	1.917624401	0.93932
ERG	78.83352067	41.11339106	1.917465785	0.939201
PBDC1	285.4603275	148.897146	1.917164534	0.938974
MRPS11	255.5865723	133.3407278	1.91679299	0.938695
RAB5C	112.8564085	58.89215477	1.916322303	0.938341
C3orf38	872.9775131	455.5808199	1.916185834	0.938237
KIF5C	542.7065528	283.3490465	1.915328671	0.937592
USP48	2997.333439	1565.642379	1.914443221	0.936925
PRIMPOL	170.1144393	88.89381852	1.913681313	0.936351
MTRF1	136.0915515	71.11505481	1.913681313	0.936351
C6orf163	34.02288787	17.7787637	1.913681313	0.936351
CSRP1	1160.92732	606.7003114	1.913510342	0.936222
PIGK	1282.081994	670.0371571	1.913449098	0.936176
FAF2	1154.288708	603.3667932	1.913079608	0.935897
ATXN7L3B	848.0827171	443.3579198	1.912862451	0.935733
PIP5K1B	348.527144	182.232328	1.912542895	0.935492
KDM1B	1447.217474	756.7086301	1.912516148	0.935472
SPRYD7	212.4355925	111.1172731	1.911814307	0.934942
BBS12	212.4355925	111.1172731	1.911814307	0.934942
PHTF2	403.2956952	211.122819	1.910242091	0.933755
TMOD2	110.3669289	57.78098203	1.910090917	0.933641
CNOT2	1016.537503	532.2517384	1.90988104	0.933483
PPP1CB	3638.789349	1905.661234	1.909462859	0.933167
DDX12P	186.71097	97.78320037	1.909438117	0.933148
EGLN3	205.7969803	107.7837549	1.909350629	0.933082
TMEM14B	377.5710727	197.7887462	1.908961354	0.932788
PSMC6	1060.51831	555.5863657	1.908827097	0.932686
ZNF507	1384.980484	725.5957936	1.908749329	0.932628
SDE2	721.1192575	377.7987287	1.908739238	0.93262
BBS10	1123.585126	588.9215477	1.907868935	0.931962
MATCAP2	256.4163988	134.4519005	1.907123647	0.931398
SERPINH1	1841.385078	965.6091036	1.906967396	0.93128
PDXDC1	84.6423064	44.44690926	1.904346282	0.929296
TVP23CP2	42.3211532	22.22345463	1.904346282	0.929296
LUC7L2	211.605766	111.1172731	1.904346282	0.929296
CWC22	1207.397606	634.4796297	1.902973003	0.928255
FDXR	266.3743172	140.0077642	1.902568181	0.927948
DNAL1	378.4008992	198.8999189	1.902468846	0.927873
TRIM29	46.47028587	24.44580009	1.900951726	0.926722
CEP41	166.7951332	87.78264578	1.900092344	0.92607
ADNP	8532.276416	4491.36018	1.89970879	0.925778
STAM	873.8073396	460.0255108	1.899475831	0.925601
STPG1	415.7430932	218.9010281	1.8992286	0.925414
PMFBP1	73.85456147	38.8910456	1.899011979	0.925249
POLR3GL	73.85456147	38.8910456	1.899011979	0.925249
RTF1	567.6013488	298.9054648	1.898932658	0.925189
NHLRC2	2803.983856	1476.74856	1.898755098	0.925054
BLOC1S2	124.47398	65.55919115	1.898650331	0.924974
ZFAND1	1295.359219	682.2600571	1.898629716	0.924959
IGSF11	151.8582556	80.00443666	1.898122928	0.924573
CD86	50.61941854	26.66814555	1.898122928	0.924573
POLD2	721.1192575	380.0210742	1.89757702	0.924158
POLR3K	261.395358	137.7854187	1.897119162	0.92381
CNPY3	737.7157882	388.910456	1.896878258	0.923627
SEC61B	448.9361546	236.6797918	1.896808135	0.923574
PUS7	609.0926755	321.1289194	1.896723212	0.923509
NOMO2	918.6179724	484.4713109	1.896124604	0.923054
ENSG000001	191.6899292	101.1167186	1.895729331	0.922753
FGFBP3	27.3842756	14.44524551	1.895729331	0.922753
H4C13	27.3842756	14.44524551	1.895729331	0.922753
LGALS3BP	2125.185752	1121.173286	1.895501595	0.92258
GTPBP8	277.9918887	146.6748005	1.895294131	0.922422
RAB22A	698.7139411	368.9093468	1.893999019	0.921436
PTGR2	58.91768387	31.11283648	1.893677676	0.921191
CMTR2	58.91768387	31.11283648	1.893677676	0.921191
SCN5A	121.9845004	64.44801842	1.892757968	0.92049
SMIM12	275.5024091	145.5636278	1.892659679	0.920415
CCDC91	956.789993	505.5835928	1.892446683	0.920253
ARIH1	775.8878087	410.0227379	1.892304346	0.920144
GNPDA2	437.3185831	231.1239281	1.892138934	0.920018
ARPC3	473.001124	250.0138646	1.891899575	0.919836
SHC3	63.06681654	33.33518194	1.891899575	0.919836
HPCA	31.53340827	16.66759097	1.891899575	0.919836
ZBTB26	603.2838898	318.9065739	1.891726101	0.919703
PHF14	1544.307179	816.7119576	1.890883517	0.91906
ATG101	300.3972051	158.8977006	1.890506936	0.918773
TRAF3IP1	487.1081751	257.7920737	1.889538992	0.918034
HFM1	107.0476228	56.6698093	1.888970937	0.917601
PER3	1578.330066	835.601894	1.888854104	0.917511
FNTA	436.4887566	231.1239281	1.888548538	0.917278
PCM1	4840.378169	2564.586664	1.887391148	0.916393
YES1	2009.010037	1064.503477	1.887274284	0.916304
F5	270.5234499	143.3412824	1.887268241	0.916299
NECTIN1	429.8501443	227.7904099	1.887042323	0.916127
RAB17	79.6633472	42.22456379	1.886658856	0.915834
ABHD14B	87.96161254	46.66925472	1.88478717	0.914402
CCNT2	927.7460643	492.24952	1.884706895	0.91434
BNIP1	152.6880821	81.11560939	1.882351415	0.912536
RAB9A	313.6744296	166.6759097	1.881942208	0.912222
METTL7A	52.2790716	27.77931829	1.881942208	0.912222
ASCC3	1971.667843	1047.835886	1.881657109	0.912004
RAD23B	5070.240119	2694.593874	1.881634249	0.911986
CCNB3	173.4337455	92.22733671	1.880502589	0.911118
WTAP	1118.252695	1584.138852	1.416619749	0.502453
DR1	417.1434758	590.8364918	1.41638675	0.502215
POLR3D	126.5738779	179.2425312	1.416109976	0.501933
ZNF30	126.5738779	179.2425312	1.416109976	0.501933
MBTD1	496.3897298	702.8630738	1.415950072	0.50177
CMPK2	53.9314784	76.34404107	1.415574787	0.501388
AP3S1	125.4732355	177.5828781	1.415304846	0.501113
TBCCD1	277.3618889	392.5079503	1.41514738	0.500952
SH2D3C	89.15203572	126.1336331	1.414814951	0.500613
DYRK3	291.6702403	412.4237871	1.414007088	0.499789
ZNF227	476.5781663	673.8191451	1.413869104	0.499649
TP73-AS1	35.22055732	49.789592	1.413651452	0.499426
ACVR1C	17.61027866	24.894796	1.413651452	0.499426
ENSG000002	17.61027866	24.894796	1.413651452	0.499426
ENSG000002	17.61027866	24.894796	1.413651452	0.499426
SELENOH	8.80513933	12.447398	1.413651452	0.499426
ENSG000002	8.80513933	12.447398	1.413651452	0.499426
VIM-AS1	8.80513933	12.447398	1.413651452	0.499426
RPL21P123	8.80513933	12.447398	1.413651452	0.499426
LZTS3	193.7130653	273.842756	1.413651452	0.499426
MOCOS	96.85653263	136.921378	1.413651452	0.499426
S1PR5	26.41541799	37.342194	1.413651452	0.499426
NDUFB7	324.6895128	458.894073	1.413331983	0.4991
ANKRD28	1679.580327	2373.303885	1.413033867	0.498796
ZMAT2	365.4132822	516.1521038	1.412515989	0.498267
RBM14	920.13706	1299.508351	1.412298676	0.498045
ENOX2	224.5310529	316.9937357	1.411803542	0.497539
CD93	189.3104956	267.2041437	1.411459744	0.497188
RFX2	94.6552478	133.6020719	1.411459744	0.497188
SAR1A	1100.642416	1553.43527	1.41138961	0.497116
BMI1	42.92505424	60.57733694	1.411234954	0.496958
PTMS	890.4197148	1256.357372	1.410972096	0.496689
THOC1	631.768747	891.2336968	1.410696083	0.496407
TMEM41B	203.618847	287.1199805	1.410085484	0.495783
PRKD3	862.9036544	1216.525698	1.409804781	0.495495
HK3	25.31477557	35.68254093	1.409553912	0.495239
NPR1	25.31477557	35.68254093	1.409553912	0.495239
PHTF2	286.1670282	403.2956952	1.409301755	0.494981
SF3B5	394.029985	555.1539508	1.408912956	0.494582
DHX37	225.6316953	317.8235623	1.408594488	0.494256
AP2B1	1821.563199	2565.823641	1.408583376	0.494245
TTLL5	2489.653146	3506.84693	1.408568473	0.49423
WAC-AS1	58.33404806	82.1528268	1.408316918	0.493972
KNOP1	540.4154264	760.9509311	1.40808514	0.493735
MEGF9	606.4539714	853.8915028	1.408007109	0.493655
MAPK14	569.0321292	800.7826047	1.407271336	0.492901
HNRNPA2B1	8047.897348	11325.47253	1.407258572	0.492887
BRWD1	4435.588938	6241.125357	1.407056751	0.492681
GAPVD1	1510.081395	2124.355925	1.406782397	0.492399
ZNF213	90.25267814	126.9634596	1.406755591	0.492372
OTULINL	361.0107125	507.8538384	1.406755591	0.492372
SRP54	1303.160621	1832.256986	1.406010093	0.491607
RAPH1	3647.528968	5128.327976	1.4059732	0.491569
CHTOP	390.7280578	549.3451651	1.405952693	0.491548
ZNF131	390.7280578	549.3451651	1.405952693	0.491548
SNTB1	617.4603955	867.9985539	1.405755835	0.491346
POMT2	331.2933673	465.5326852	1.405197723	0.490773
TAOK1	2719.687411	3821.351186	1.405069999	0.490642
DNAJC14	249.8458285	351.0166236	1.404932897	0.490501
NSL1	819.9786001	1151.799228	1.404669863	0.490231
METTL2A	304.8779493	428.1904912	1.404465269	0.490021
USP28	473.276239	664.6910532	1.40444628	0.490001
DUSP5	56.13276323	78.83352067	1.4044119	0.489966
CPSF2	1608.03857	2257.957997	1.404169054	0.489717
RBX1	271.8586768	381.7202053	1.404112643	0.489659
GSE1	945.4518356	1326.892627	1.403448147	0.488976
MATCAP2	182.7066411	256.4163988	1.403432285	0.488959
SGTA	373.1177791	523.6205426	1.403365296	0.488891
ZNF182	341.1991491	478.8099098	1.403315076	0.488839
IRF2BP2	1039.006441	1458.005219	1.403268701	0.488791
FUT4	39.62312699	55.59837774	1.40317996	0.4887
JPH1	332.3940097	466.3625118	1.403041265	0.488557
TCTN2	553.6231354	776.7176352	1.402971779	0.488486
CIAO2A	213.5246288	299.5673785	1.402964053	0.488478
SVIL-AS1	134.2783748	188.3706231	1.402836632	0.488347
PKP2	766.0471217	1074.625361	1.402818874	0.488329
KLHL26	47.3276239	66.38612267	1.402692914	0.488199
FKBP8	674.6938012	946.002248	1.402120853	0.487611
RCE1	70.44111464	98.74935747	1.401871023	0.487354
ZBTB34	249.8458285	350.1867971	1.401611543	0.487087
POGLUT1	171.7002169	240.6496947	1.401568961	0.487043
POLB	396.2312699	555.1539508	1.401085661	0.486545
ETAA1	379.7216336	531.9188079	1.400812492	0.486264
MTURN	177.203429	248.1181335	1.400188105	0.485621
ENSG000002	15.40899383	21.57548987	1.400188105	0.485621
SIRPB1	7.704496914	10.78774493	1.400188105	0.485621
RUNDC3B	7.704496914	10.78774493	1.400188105	0.485621
CASP5	7.704496914	10.78774493	1.400188105	0.485621
RELL2	7.704496914	10.78774493	1.400188105	0.485621
GSG1L	7.704496914	10.78774493	1.400188105	0.485621
OTP	7.704496914	10.78774493	1.400188105	0.485621
SLC30A10	7.704496914	10.78774493	1.400188105	0.485621
CFAP299	7.704496914	10.78774493	1.400188105	0.485621
RPL37P18	7.704496914	10.78774493	1.400188105	0.485621
LINC00852	7.704496914	10.78774493	1.400188105	0.485621
SNHG15	7.704496914	10.78774493	1.400188105	0.485621
ENSG000002	7.704496914	10.78774493	1.400188105	0.485621
OXA1L-DT	7.704496914	10.78774493	1.400188105	0.485621
TFIP11-DT	7.704496914	10.78774493	1.400188105	0.485621
ENSG000002	7.704496914	10.78774493	1.400188105	0.485621
MIR223HG	7.704496914	10.78774493	1.400188105	0.485621

ZNF814	414.9421909	333.3518194	0.803369305	-0.315865
MRTFA	716.518213	575.5874749	0.803311716	-0.315968
MARCHF7	2008.67241	1613.422806	0.80322844	-0.316118
VDAC1	350.0042884	281.1267011	0.803209305	-0.316152
METTL23	96.85653263	77.7820912	0.803064998	-0.316411
ANKDD1A	48.42826632	38.8910456	0.803064998	-0.316411
ENSG000002	48.42826632	38.8910456	0.803064998	-0.316411
ZXDA	236.6381195	190.0105371	0.802958279	-0.316603
AK2	801.2676791	643.3690115	0.802938928	-0.316638
UBE3C	1429.734499	1147.841432	0.802835374	-0.316824
RBM18	322.488228	258.9032464	0.802830069	-0.316833
ICAM3	182.7066411	146.6748005	0.802788556	-0.316908
CDK12	3163.246304	2539.029691	0.802665821	-0.317129
DCAF1	1466.055699	1176.731923	0.80265158	-0.317154
NDUFB3	305.9785917	245.5691736	0.802569788	-0.317301
DMKN	171.7002169	137.7854187	0.802476672	-0.317469
MMD	85.85010847	68.89270935	0.802476672	-0.317469
C1orf54	42.92505424	34.44635467	0.802476672	-0.317469
RANBP17	337.8972218	271.1261465	0.802392352	-0.31762
ENDOD1	922.3383449	740.0410391	0.80235311	-0.317691
PEG3	289.4689555	232.2351009	0.802279818	-0.317823
FEN1	80.34689639	64.44801842	0.802122065	-0.318106
DROSHA	3071.892984	2463.469946	0.801938726	-0.318436
SNX3	1535.396171	1231.179386	0.801864307	-0.31857
NLN	304.8779493	244.4580009	0.801822505	-0.318645
THAP7	187.1092108	150.0083187	0.801715309	-0.318838
RBMS2P1	37.42184215	30.00166375	0.801715309	-0.318838
ZNF473	224.5310529	180.0099825	0.801715309	-0.318838
ZDHHC7	438.0556817	351.1305831	0.801566097	-0.319107
REEP5	773.7516187	620.0343841	0.801335169	-0.319522
MRPS30	314.7837311	252.23621	0.80130002	-0.319586
GPD1L	309.280519	247.7915191	0.801186961	-0.319789
NEB	1193.096379	955.608549	0.800948327	-0.320219
HIBADH	585.5417655	468.9148927	0.800822282	-0.320446
BPNT1	388.526773	311.1283648	0.800790026	-0.320504
MTA3	1149.070683	920.0510216	0.800691407	-0.320682
CCDC181	31.91863007	25.55697282	0.800691407	-0.320682
ZFTRAF1	31.91863007	25.55697282	0.800691407	-0.320682
ZFPM1	255.3490406	204.4557826	0.800691407	-0.320682
FBXW2	1327.374754	1062.281131	0.80028728	-0.32141
ZNF366	58.33404806	46.66925472	0.800034564	-0.321866
HMGA1	143.0835141	114.4507913	0.799888038	-0.32213
ZFHX2-AS1	84.74946605	67.78153662	0.799787182	-0.322312
ARL8A	614.1584683	491.1383473	0.799693194	-0.322481
CYP2U1	301.5760221	241.1244827	0.799547925	-0.322744
CDKN1B	539.314784	431.1350198	0.799412574	-0.322988
C9orf153	26.41541799	21.1122819	0.799240879	-0.323298
NXPE2	26.41541799	21.1122819	0.799240879	-0.323298
FAS	490.8865177	392.2439742	0.799052245	-0.323638
COG6	411.6402637	328.9071285	0.799015931	-0.323704
CTSK	538.2141416	430.0238471	0.79898281	-0.323764
TMEM25	152.9892959	122.2290005	0.798938251	-0.323844
SPIN3	152.9892959	122.2290005	0.798938251	-0.323844
DPAGT1	300.4753796	240.01331	0.798778623	-0.324132
SMAD4	1737.914375	1387.854742	0.798574867	-0.3245
SCARF2	121.0706658	96.67202764	0.798476055	-0.324679
TRAPPC11	1099.541774	877.8264578	0.798356623	-0.324895
CUEDC1	257.5503254	205.5669553	0.798162281	-0.325246
CBX7	210.2227015	167.7870824	0.798139693	-0.325287
LAD1	210.2227015	167.7870824	0.798139693	-0.325287
USP25	1575.019298	1256.736359	0.797918071	-0.325687
YWHAB	1321.871542	1054.502922	0.797734794	-0.326019
LYRM4	172.8008594	137.7854187	0.797365356	-0.326687
ILF2	1329.576039	1060.058786	0.797290832	-0.326822
ZNF629	423.7473303	337.7965104	0.797164929	-0.32705
NR1D1	528.3083598	421.1344652	0.797137614	-0.327099
ABRAXAS1	230.034265	183.3435007	0.797026915	-0.3273
ERLIN2	920.13706	733.3740027	0.797026915	-0.3273
RASSF9	83.64882364	66.67036389	0.797026915	-0.3273
MYO3A	20.91220591	16.66759097	0.797026915	-0.3273
FUT9	20.91220591	16.66759097	0.797026915	-0.3273
DIO1	20.91220591	16.66759097	0.797026915	-0.3273
ALG12	391.8287002	312.2395375	0.796877659	-0.32757
SCFD2	428.1498999	341.1300286	0.796753727	-0.327794
ST3GAL2	140.8822293	112.2284459	0.796611797	-0.328051
OCIAD1	876.1113634	697.8164753	0.796492894	-0.328267
METAP1	651.5803104	518.9176656	0.796398628	-0.328437
ZNF571	270.7580344	215.5675099	0.79616293	-0.328864
SENP7	1318.569615	1048.947058	0.795518907	-0.330032
MPC1	124.372593	98.8943731	0.795146026	-0.330708
DDRGK1	434.7537544	345.5747195	0.794874606	-0.331201
TACC1	1769.833005	1406.744678	0.794845996	-0.331253
SH2B2	51.73019357	41.11339106	0.794765846	-0.331398
BEGAIN	51.73019357	41.11339106	0.794765846	-0.331398
KCTD10	444.6595362	353.3529286	0.794659509	-0.331591
MRPL58	118.869381	94.44968217	0.794566956	-0.331759
MTHFD1	899.2248541	714.4840663	0.794555514	-0.33178
RAB3GAP2	1984.458277	1576.754106	0.794551402	-0.331788
INIP	134.2783748	106.6725822	0.794413712	-0.332038
RBM15B	1007.087811	800.0443666	0.794413712	-0.332038
RFTN2	144.1841565	114.4507913	0.793782022	-0.333185
HYCC2	463.3704573	367.7981741	0.793745411	-0.333252
ANO10	669.1905891	531.1405656	0.79370597	-0.333323
ZNF562	905.8287086	718.9287572	0.793669653	-0.333389
FBXO28	406.1370516	322.2400921	0.793426975	-0.333831
C1QC	1372.501093	1088.949277	0.793405034	-0.333871
MAML1	30.81798766	24.44580009	0.793231549	-0.334186
TEDC1	30.81798766	24.44580009	0.793231549	-0.334186
CLDN34	30.81798766	24.44580009	0.793231549	-0.334186
IL22RA1	15.40899383	12.22290005	0.793231549	-0.334186
CCBE1	15.40899383	12.22290005	0.793231549	-0.334186
CACNA2D2	843.9335844	448.9137835	1.879945806	0.910691
HK2	666.3507063	354.4641013	1.879882064	0.910642
POC1B	384.2096849	204.4557826	1.879182286	0.910105
SLC35G2	465.5326852	247.7915191	1.878727274	0.909756
MAP3K21	546.8556855	291.1272556	1.878407723	0.90951
SERBP1	3124.296898	1663.425579	1.878230645	0.909374
LIMS1	559.3030835	297.794292	1.878152465	0.909314
STAG1	3061.230082	1630.090397	1.877951117	0.90916
ING1	438.1484096	233.3462736	1.877674766	0.908947
RASSF8	523.6205426	278.9043556	1.877419739	0.908751
ZNF345	300.3972051	160.0088733	1.877378416	0.908719
SH2B2	77.1738676	41.11339106	1.877098084	0.908504
RASA2	467.1923383	248.9026918	1.877007978	0.908435
TULP3	633.9874715	337.7965104	1.876832507	0.9083
CCDC66	358.4850624	191.1217098	1.875689909	0.907421
AZIN1	4717.563842	2515.695064	1.875252653	0.907085
SENP5	1620.65122	864.4923851	1.874685362	0.906648
CABLES2	204.1373272	108.8949277	1.874626592	0.906603
TIGD7	522.790716	278.9043556	1.874444431	0.906463
RAC3	114.5160616	61.11450023	1.873795272	0.905963
PPP4R1	2145.931415	1145.619086	1.873163114	0.905477
SPIDR	4191.45382	2237.901881	1.872939049	0.905304
ITPR2	7171.360901	3829.101233	1.872857484	0.905241
PLPBP	424.0413586	226.6792372	1.870666955	0.903553
H3-3A	3134.254817	1675.648479	1.870472749	0.903403
TTC1	735.2263086	393.3551469	1.869115771	0.902356
DGKE	429.8501443	230.0127554	1.86881003	0.90212
ZNF281	959.2794726	513.3618019	1.868622615	0.901975
ZNF25	479.6397363	256.680901	1.868622615	0.901975
SMIM7	103.7283167	55.55863657	1.867006159	0.900727
TMEM59L	49.789592	26.66814555	1.867006159	0.900727
ABT1	24.894796	13.33407278	1.867006159	0.900727
FRMD7	12.447398	6.667036389	1.867006159	0.900727
ADRA1D	12.447398	6.667036389	1.867006159	0.900727
ENSG000002	12.447398	6.667036389	1.867006159	0.900727
GPS2P1	12.447398	6.667036389	1.867006159	0.900727
MAILR	12.447398	6.667036389	1.867006159	0.900727
ARPC1A	37.342194	20.00110917	1.867006159	0.900727
FAM219A	190.8601027	102.2278913	1.867006159	0.900727
MCOLN2	174.263572	93.33850944	1.867006159	0.900727
KCNJ11	87.131786	46.66925472	1.867006159	0.900727
TIMM8A	62.23699	33.33518194	1.867006159	0.900727
ALKBH6	16.59653067	8.889381852	1.867006159	0.900727
ANKHD1-EI	16.59653067	8.889381852	1.867006159	0.900727
ENSG000002	16.59653067	8.889381852	1.867006159	0.900727
FNDC7	8.298265334	4.444690926	1.867006159	0.900727
C2orf73	8.298265334	4.444690926	1.867006159	0.900727
RPSAP19	8.298265334	4.444690926	1.867006159	0.900727
EFCAB10	8.298265334	4.444690926	1.867006159	0.900727
PAQR9	8.298265334	4.444690926	1.867006159	0.900727
APCDD1L	8.298265334	4.444690926	1.867006159	0.900727
ENSG000002	8.298265334	4.444690926	1.867006159	0.900727
LINC01266	8.298265334	4.444690926	1.867006159	0.900727
NTAN1P2	8.298265334	4.444690926	1.867006159	0.900727
ENSG000002	8.298265334	4.444690926	1.867006159	0.900727
ENSG000002	8.298265334	4.444690926	1.867006159	0.900727
ENSG000002	8.298265334	4.444690926	1.867006159	0.900727
UPP2	4.149132667	2.222345463	1.867006159	0.900727
SZRD1	4.149132667	2.222345463	1.867006159	0.900727
DNTT	4.149132667	2.222345463	1.867006159	0.900727
FRG1	4.149132667	2.222345463	1.867006159	0.900727
GPR174	4.149132667	2.222345463	1.867006159	0.900727
CIBAR2	4.149132667	2.222345463	1.867006159	0.900727
CD1B	4.149132667	2.222345463	1.867006159	0.900727
ST6GALNA(	4.149132667	2.222345463	1.867006159	0.900727
HEPACAM	4.149132667	2.222345463	1.867006159	0.900727
TMEM52B	4.149132667	2.222345463	1.867006159	0.900727
LY6D	4.149132667	2.222345463	1.867006159	0.900727
RPL7AP66	4.149132667	2.222345463	1.867006159	0.900727
CYLC1	4.149132667	2.222345463	1.867006159	0.900727
SMIM10	4.149132667	2.222345463	1.867006159	0.900727
MYMK	4.149132667	2.222345463	1.867006159	0.900727
GJB5	4.149132667	2.222345463	1.867006159	0.900727
SHPK	4.149132667	2.222345463	1.867006159	0.900727
SERPINB13	4.149132667	2.222345463	1.867006159	0.900727
CPT1B	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ZNF321P	4.149132667	2.222345463	1.867006159	0.900727
RPS2P55	4.149132667	2.222345463	1.867006159	0.900727
RABGAP1L-	4.149132667	2.222345463	1.867006159	0.900727
DAZAP2P1	4.149132667	2.222345463	1.867006159	0.900727
CALCRL-AS	4.149132667	2.222345463	1.867006159	0.900727
FAM66C	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
LINC02798	4.149132667	2.222345463	1.867006159	0.900727
RPS28P7	4.149132667	2.222345463	1.867006159	0.900727
CYCSP24	4.149132667	2.222345463	1.867006159	0.900727
SATB1-AS1	4.149132667	2.222345463	1.867006159	0.900727
SERPINH1P	4.149132667	2.222345463	1.867006159	0.900727
NKX1-2	4.149132667	2.222345463	1.867006159	0.900727
RHOQP3	4.149132667	2.222345463	1.867006159	0.900727
LINC01122	4.149132667	2.222345463	1.867006159	0.900727
RNF217-AS1	4.149132667	2.222345463	1.867006159	0.900727
IFITM3P1	4.149132667	2.222345463	1.867006159	0.900727
CLIC4P3	4.149132667	2.222345463	1.867006159	0.900727
RN7SL23P	4.149132667	2.222345463	1.867006159	0.900727
ATP1B1P1	4.149132667	2.222345463	1.867006159	0.900727
ARPC1AP4	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
DOCK11P1	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	7.704496914	10.78774493	1.400188105	0.485621
EBF3	23.11349074	32.3632348	1.400188105	0.485621
SNAPC1	77.04496914	107.8774493	1.400188105	0.485621
MYEF2	866.2055816	1212.376565	1.399640675	0.485056
UBB	3626.616762	5075.219078	1.399436282	0.484846
SNW1	1371.400451	1918.558945	1.398977916	0.484373
DTD2	83.64882364	117.0055412	1.398770911	0.48416
MXI1	767.1477642	1072.965708	1.398642814	0.484028
MRRF	165.0963624	230.6917763	1.397315924	0.482658
CREM	232.2355498	324.4621745	1.397125353	0.482461
DYRK1B	37.42184215	52.2790716	1.397020259	0.482353
ACTR3	2671.259144	3731.729921	1.396992848	0.482325
SLC5A6	134.2783748	187.5407965	1.396656735	0.481977
ZNF71	178.3040714	248.94796	1.396198965	0.481505
NUCB2	1221.713082	1705.293526	1.395821614	0.481115
UNC119	244.3426164	341.0587052	1.395821614	0.481115
FAM169A	169.4989321	236.500562	1.395292342	0.480567
ACAP2	890.4197148	1242.25032	1.395128949	0.480398
EIF4E2	559.1263475	780.0369414	1.395099596	0.480368
WDR75	977.3704657	1363.404994	1.394972574	0.480237
PBX3	1050.012865	1464.643831	1.394881796	0.480143
CHMP2B	346.7023611	482.9590424	1.393007653	0.478203
RASEF	1263.537494	1760.062077	1.39296387	0.478158
GK	107.8629568	150.1986025	1.392494764	0.477672
PAPOLA	4433.387653	6173.079582	1.392406905	0.477581
TMEM11	257.5503254	358.4850624	1.391902968	0.477059
TRAIP	57.23340565	79.6633472	1.391902968	0.477059
SGSM2-AS1	14.30835141	19.9158368	1.391902968	0.477059
ZNF529	242.1413316	336.9095725	1.391375732	0.476512
SLC35A4	113.3661689	157.6670413	1.390776833	0.475891
BAG4	565.730202	786.6755536	1.390548977	0.475655
NUP153	2513.867279	3495.229359	1.390379432	0.475479
TMEM276	70.44111464	97.91953094	1.390090595	0.475179
KLRG1	35.22055732	48.95976547	1.390090595	0.475179
NHLRC2	2017.477549	2803.983856	1.389846374	0.474925
ZSCAN29	266.3554647	370.1026339	1.389506441	0.474573
UIMC1	839.7901636	1166.736106	1.389318614	0.474377
FIP1L1	502.9935842	698.7139411	1.38911104	0.474162
DYNC1H1	12350.30855	17155.00392	1.38903444	0.474082
ARMC7	41.82441182	58.08785734	1.388850549	0.473891
UBE2F	41.82441182	58.08785734	1.388850549	0.473891
EMX2	20.91220591	29.04392867	1.388850549	0.473891
MRPL34	62.73661773	87.131786	1.388850549	0.473891
SH2B3	104.5610295	145.2196433	1.388850549	0.473891
POLE3	278.4625313	386.6991645	1.388693706	0.473728
PRDX2	933.344769	1295.359219	1.387867872	0.47287
GPAM	373.1177791	517.8117568	1.38779706	0.472797
TUBD1	213.5246288	296.2480724	1.387418745	0.472403
NAPG	488.6852328	677.9682778	1.387331215	0.472312
CHRNA3	27.51606041	38.17202053	1.387263292	0.472242
ENSG000002	27.51606041	38.17202053	1.387263292	0.472242
GNPAT	707.7130737	981.684789	1.387122586	0.472095
ALOX12-AS1	61.63597531	85.47213294	1.386724758	0.471681
BARX2	34.11991491	47.3001124	1.386290456	0.47123
CILP2	34.11991491	47.3001124	1.386290456	0.47123
ZNF268	631.768747	875.4669927	1.385739635	0.470656
SH3BGRL3	515.1006508	713.6508187	1.385458973	0.470364
TRPV1	101.2591023	140.2406841	1.384968669	0.469853
SNX25	465.5717421	644.7752164	1.384910548	0.469793
NKIRAS2	235.5374771	326.1218276	1.384585721	0.469454
RPSA2	60.5353329	83.81247987	1.384521665	0.469388
LARGE1	322.488228	446.446675	1.384381308	0.469241
EIF2AK2	2310.248432	3198.15146	1.384332272	0.46919
TOMM70	1123.755907	1555.094924	1.383836929	0.468674
NR3C1	1128.158477	1560.903709	1.383585499	0.468412
ZFHX2	413.8415485	572.580308	1.383573762	0.4684
FAM53B	119.9700234	165.9653067	1.3833898	0.468208
SLC30A6	626.2655349	866.3389008	1.383341175	0.468157
LLGL1	126.5738779	175.0933985	1.383329653	0.468145
SEPHS2	498.5910146	689.5858492	1.383069147	0.467873
DCTD	212.4239863	293.7585928	1.382888053	0.467684
STXBP3	814.4753881	1126.074606	1.382576591	0.467359
BAZ1A	2169.366203	2998.993092	1.382428236	0.467205
CMTM4	191.5117804	264.7146641	1.382236975	0.467005
COL20A1	6.603854498	9.128091867	1.382236975	0.467005
SDCBP2	6.603854498	9.128091867	1.382236975	0.467005
CEACAM3	6.603854498	9.128091867	1.382236975	0.467005
GOLGA2P8	6.603854498	9.128091867	1.382236975	0.467005
SMKR1	6.603854498	9.128091867	1.382236975	0.467005
LINC00996	6.603854498	9.128091867	1.382236975	0.467005
EEF1A1P19	6.603854498	9.128091867	1.382236975	0.467005
VPS13B-DT	6.603854498	9.128091867	1.382236975	0.467005
ENSG000002	6.603854498	9.128091867	1.382236975	0.467005
HP	6.603854498	9.128091867	1.382236975	0.467005
LINC02367	6.603854498	9.128091867	1.382236975	0.467005
ENSG000002	6.603854498	9.128091867	1.382236975	0.467005
NFYC-AS1	6.603854498	9.128091867	1.382236975	0.467005
H3C8	6.603854498	9.128091867	1.382236975	0.467005
ENSG000002	6.603854498	9.128091867	1.382236975	0.467005
ENSG000002	6.603854498	9.128091867	1.382236975	0.467005
ZBED1	6.603854498	9.128091867	1.382236975	0.467005
GGNBP2	33.01927249	45.64045934	1.382236975	0.467005
NUP210L	39.62312699	54.7685512	1.382236975	0.467005
FAM3C2P	39.62312699	54.7685512	1.382236975	0.467005
PIPOX	19.81156349	27.3842756	1.382236975	0.467005
BLOC1S4	19.81156349	27.3842756	1.382236975	0.467005
VMP1	1512.28268	2090.333038	1.382236975	0.467005
TSACC	26.41541799	36.51236747	1.382236975	0.467005
SLC18A1	13.207709	18.25618373	1.382236975	0.467005
CA3	13.207709	18.25618373	1.382236975	0.467005
SULT1A1	13.207709	18.25618373	1.382236975	0.467005

VPS33B	15.40899383	12.22290005	0.793231549	-0.334186
CRISP2	46.22698148	36.66870014	0.793231549	-0.334186
C8orf44	107.8629568	85.56030032	0.793231549	-0.334186
DTX1	61.63597531	48.89160018	0.793231549	-0.334186
TOM1L1	1319.670257	1046.724713	0.793171406	-0.334295
ASAH1	2784.625313	2207.900217	0.792889516	-0.334808
RICTOR	1756.625296	1392.299432	0.792598988	-0.335337
RSPH3	660.3854498	523.3623565	0.79251043	-0.335498
RECK	394.029985	312.2395375	0.792425829	-0.335652
ODR4	454.5653179	360.019965	0.792009313	-0.336411
ZNF521	183.8072835	145.5636278	0.791936125	-0.336544
YY1AP1	2072.50967	1641.202124	0.791891178	-0.336626
ZNF101	152.9892959	121.1178277	0.791675176	-0.337019
PRMT2	693.4047223	548.9193293	0.791629061	-0.337104
TMEM184B	810.0728184	641.146666	0.791467941	-0.337397
ZNF468	432.5524696	342.2412013	0.791213148	-0.337862
INTS13	646.0770984	511.1394565	0.791143128	-0.337989
CYCS	294.9721676	233.3462736	0.791078953	-0.338106
KATNBL1	106.7623144	84.44912759	0.791001282	-0.338248
KCTD3	2205.687402	1744.541188	0.790928572	-0.338381
INTS6L	233.3361923	184.4546734	0.790510343	-0.339144
TBC1D10A	141.9828717	112.2284459	0.790436512	-0.339279
C12orf75	141.9828717	112.2284459	0.790436512	-0.339279
CCDC71L	167.2976473	132.229555	0.790385024	-0.339372
ZNF592	1332.877966	1053.391749	0.790313724	-0.339503
CXCL2	25.31477557	20.00110917	0.790096247	-0.3399
MEIOC	25.31477557	20.00110917	0.790096247	-0.3399
RPL17P18	25.31477557	20.00110917	0.790096247	-0.3399
F8A1	25.31477557	20.00110917	0.790096247	-0.3399
PHOSPHO2	177.203429	140.0077642	0.790096247	-0.3399
MRPL1	181.6059987	143.3412824	0.78929817	-0.341358
SLFN5	887.1177875	700.0388208	0.789115978	-0.341691
EFHB	95.75589022	75.55974574	0.789087184	-0.341743
ANKRD44	760.5439097	600.033275	0.788952837	-0.341989
METTL7A	35.22055732	27.77931829	0.788724552	-0.342407
SULT2B1	176.1027866	138.8965914	0.788724552	-0.342407
KIF16B	1368.098523	1078.948722	0.788648408	-0.342546
EXOC5	1000.483956	788.9326393	0.788551015	-0.342724
FBXO45	115.5674537	91.11616398	0.788424085	-0.342956
ZNF557	321.3875856	253.3473828	0.788292374	-0.343197
EEF1E1	80.34689639	63.33684569	0.788292374	-0.343197
COPS4	511.7987236	403.3557015	0.788113926	-0.343524
RIMBP2	45.12633907	35.55752741	0.787955064	-0.343815
ZNF124	315.8843735	248.9026918	0.787955064	-0.343815
FRZB	320.2869431	252.23621	0.787531979	-0.34459
PLEKHG6	110.0642416	86.67147305	0.787462592	-0.344717
ZFP2	55.03212081	43.33573653	0.787462592	-0.344717
ACAP2	890.4197148	701.1499935	0.787437634	-0.344762
TMEM63A	1690.586751	1331.184932	0.787410011	-0.344813
POU6F1	119.9700234	94.44968217	0.787277351	-0.345056
C4orf3	369.8158519	291.1272556	0.787222219	-0.345157
TCEANC	64.93790256	51.11394565	0.787120366	-0.345344
ZNF721	1372.501093	1080.059895	0.786928258	-0.345696
FANCF	74.84368431	58.89215477	0.786868729	-0.345805
PNPT1	673.5931588	530.0293929	0.786868729	-0.345805
METTL15	234.4368347	184.4546734	0.786799027	-0.345933
MAPRE1	713.2162858	561.1422294	0.786777084	-0.345973
CREB5	84.74946605	66.67036389	0.786675917	-0.346159
ZNF81	254.2483982	200.0110917	0.786675917	-0.346159
SLC39A14	179.4047139	141.1189369	0.786595479	-0.346306
RPL41	1180.989313	928.9404035	0.786578162	-0.346338
CUL2	726.4239948	571.142784	0.786238874	-0.34696
GULP1	288.3683131	226.6792372	0.786075401	-0.34726
HOXA11-AS	144.1841565	113.3396186	0.786075401	-0.34726
C15orf61	128.7751627	101.1167186	0.785219109	-0.348833
EEF2K	19.81156349	15.55641824	0.785219109	-0.348833
ENSG000002	19.81156349	15.55641824	0.785219109	-0.348833
TOP1P1	19.81156349	15.55641824	0.785219109	-0.348833
MMP25	9.905781747	7.77820912	0.785219109	-0.348833
PTPMT1	9.905781747	7.77820912	0.785219109	-0.348833
S1PR4	9.905781747	7.77820912	0.785219109	-0.348833
TKTL2	9.905781747	7.77820912	0.785219109	-0.348833
C8A	9.905781747	7.77820912	0.785219109	-0.348833
FOXB1	9.905781747	7.77820912	0.785219109	-0.348833
FAM20C	9.905781747	7.77820912	0.785219109	-0.348833
DDX53	9.905781747	7.77820912	0.785219109	-0.348833
OR10R2	9.905781747	7.77820912	0.785219109	-0.348833
TRAV12-2	9.905781747	7.77820912	0.785219109	-0.348833
NT5C3AP1	9.905781747	7.77820912	0.785219109	-0.348833
RPS18P9	9.905781747	7.77820912	0.785219109	-0.348833
ENSG000002	9.905781747	7.77820912	0.785219109	-0.348833
ENSG000002	9.905781747	7.77820912	0.785219109	-0.348833
ENSG000002	9.905781747	7.77820912	0.785219109	-0.348833
ENSG000002	9.905781747	7.77820912	0.785219109	-0.348833
VAV1	118.869381	93.33850944	0.785219109	-0.348833
PLA2G5	29.71734524	23.33462736	0.785219109	-0.348833
RTL8B	158.4925079	124.4513459	0.785219109	-0.348833
RWDD3	49.52890873	38.8910456	0.785219109	-0.348833
CLUAP1	227.8329802	178.8988098	0.785219109	-0.348833
ATG5	232.2355498	182.232328	0.784687478	-0.34981
RYK	1849.079259	1450.080415	0.784217554	-0.350674
REXO5	123.2719506	96.67202764	0.784217554	-0.350674
DCAF4	113.3661689	88.89381852	0.78413004	-0.350835
AP3M2	310.3811614	243.3468282	0.784025767	-0.351027
OSBPL6	374.2184215	293.3496011	0.783899413	-0.35126
DICER1	7005.58898	5491.415639	0.783862093	-0.351328
LAMA4	1892.004314	1482.304424	0.783457212	-0.352074
NDST1	957.5589022	750.0415937	0.783285072	-0.352391
CCNB3	117.7687385	92.22733671	0.783122396	-0.35269
TBC1D9B	343.4004339	268.903801	0.783061914	-0.352802
ZNF563	171.7002169	134.4519005	0.783061914	-0.352802
GOLGA8VP	4.149132667	2.222345463	1.867006159	0.900727
DYNLRB2-A	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
TSPAN5-DT	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
LAMB2P1	4.149132667	2.222345463	1.867006159	0.900727
VDAC3P1	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
PCDHGB9P	4.149132667	2.222345463	1.867006159	0.900727
F8A3	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
METTL14-D	4.149132667	2.222345463	1.867006159	0.900727
BTF3P16	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
ENSG000002	4.149132667	2.222345463	1.867006159	0.900727
PMS2P3	4.149132667	2.222345463	1.867006159	0.900727
METTL8P1	29.04392867	15.55641824	1.867006159	0.900727
RRP7BP	29.04392867	15.55641824	1.867006159	0.900727
IMMP1L	53.93872467	28.89049102	1.867006159	0.900727
FAM20B	1549.286138	830.0460304	1.866506291	0.90034
GDI2	3313.497348	1776.765198	1.864904464	0.899102
YBX1	2314.386202	1242.291114	1.862998275	0.897626
C12orf4	385.0395115	206.678128	1.862991092	0.897621
POLR2B	4398.910453	2361.242054	1.86296464	0.8976
C8orf44	159.3266944	85.56030032	1.862156792	0.896975
TATDN3	151.0284291	81.11560939	1.861891074	0.896769
SYT7	2023.117088	1086.726931	1.861660947	0.89659
SUMO3	597.475104	321.1289194	1.86054593	0.895726
FRG1BP	113.6862351	61.11450023	1.860217046	0.895471
RPL30	9530.557736	5123.617465	1.860122814	0.895398
DLG1	5801.317295	3120.17303	1.859293456	0.894754
CNOT8	599.1347571	322.2400921	1.859280616	0.894745
MPHOSPH6	194.1794088	104.4502368	1.859061452	0.894574
EXOSC9	671.3296655	361.1311377	1.858963671	0.894499
RO60	2539.269192	1366.74246	1.857898812	0.893672
TMEM150C	169.2846128	91.11616398	1.857898812	0.893672
CALCRL	156.8372148	84.44912759	1.857179811	0.893114
RAB11FIP4	462.2133791	248.9026918	1.85700434	0.892977
PIGC	399.9763891	215.5675099	1.855457667	0.891775
ASCC1	715.3104718	385.5769378	1.855169232	0.891551
DNAJB4	387.5289911	208.9004735	1.855089099	0.891488
RLIM	1648.865322	890.0493579	1.852554925	0.889516
NFYA	792.4843394	427.8015016	1.852458059	0.889441
THEG	51.44924507	27.77931829	1.85207011	0.889139
MAPK1IP1L	1887.025537	1018.945395	1.851939806	0.889037
HMGCS1	802.4422578	433.3573653	1.851687134	0.88884
HACE1	658.052441	355.5752741	1.850669855	0.888048
SUPT20H	1212.376565	655.5919115	1.849285423	0.886968
BLMH	1058.02883	572.2539567	1.848879886	0.886652
CEBPZOS	328.6113072	177.787637	1.848336098	0.886227
PPP4R4	39.00184707	21.1122819	1.847353463	0.88546
CDYL	780.0369414	422.2456379	1.847353463	0.88546
TMEM192	576.7294407	312.2395375	1.847073709	0.885241
DBR1	533.578461	288.9049102	1.846899939	0.885106
FAM76B	377.5710727	204.4557826	1.846712614	0.884959
ETS2	1814.830628	983.3878673	1.845488122	0.884002
HLA-DRB5	313.6744296	170.0094279	1.845041381	0.883653
PSMC2P1	34.8527144	18.88993643	1.845041381	0.883653
YME1L1	4535.002005	2459.025255	1.844227503	0.883017
ZBTB8OS	393.3377768	213.3451644	1.843668582	0.882579
UTP23	380.8903788	206.678128	1.842915757	0.88199
PSME3IP1	503.7047058	273.3484919	1.8427199	0.881837
ERLIN1	249.7777865	135.5630732	1.842520832	0.881681
HNRNPDL	3764.922982	2043.446653	1.842437617	0.881616
ENSG000002	92.1107452	50.00277291	1.842112744	0.881361
FTH1	9313.143184	5059.169446	1.840844289	0.880368
CWF19L1	286.290154	155.5641824	1.840334643	0.879968
SLC41A2	312.8446031	170.0094279	1.840160319	0.879831
PTPRH	83.81247987	45.55808199	1.839684118	0.879458
FBXO41	83.81247987	45.55808199	1.839684118	0.879458
CREB1	891.2336968	484.4713109	1.839600564	0.879393
FAHD1	194.1794088	105.5614095	1.839492384	0.879308
ARHGAP33	976.7058298	531.1405656	1.838883891	0.87883
SOS1	4499.319464	2446.802355	1.838856929	0.878809
SF3B3	3685.259635	2004.555608	1.838442207	0.878484
DPP4	53.10889814	28.89049102	1.838282987	0.878359
FCN1	26.55444907	14.44524551	1.838282987	0.878359
CUL2	1049.730565	571.142784	1.837947697	0.878096
SP4	702.0332472	382.2434196	1.836613036	0.877048
GSTA4	977.5356563	532.2517384	1.836603971	0.877041
KPNA3	875.4669927	476.6931018	1.836542189	0.876992
ATP6V1C1	1497.836893	815.6007849	1.836482898	0.876945
RPL23	2843.81553	1550.08596	1.834617952	0.87548
DCBLD2	1304.48731	711.1505481	1.834333551	0.875256
NOL11	1157.608014	631.1461115	1.834136332	0.875101
SETD4	291.2691132	158.8977006	1.833060593	0.874254
SPEF1	22.4053164	12.22290005	1.833060593	0.874254
PDE1C	22.4053164	12.22290005	1.833060593	0.874254
SLC25A40	309.5252969	168.8982552	1.83261394	0.873903
TP53BP2	3213.088337	1753.43057	1.832458263	0.87378
ZNF227	673.8191451	367.7981741	1.832035047	0.873447
CCDC90B	449.7659811	245.5691736	1.831524594	0.873045
CLIC3	85.47213294	46.66925472	1.831444137	0.872982
FUNDC1	229.8619497	125.5625187	1.830657367	0.872362
CS	1708.612832	933.3850944	1.830555086	0.872281
CA8	81.32300027	44.44690926	1.829666036	0.87158
BUB3	1459.664872	797.8220212	1.829562024	0.871498
ATP11C	572.3340565	790.8246863	1.381753676	0.4665
KLHL9	815.5760305	1126.904432	1.381728239	0.466474
IDH2	1070.925071	1479.580709	1.381591251	0.466331
LRRC49	190.411138	263.0550111	1.381510629	0.466247
GNL3L	615.2591107	849.7423702	1.381113023	0.465831
IAH1	333.4946521	460.553726	1.380992838	0.465706
ICE1	2173.768772	3001.482571	1.380773618	0.465477
STX2	156.2912231	215.7548987	1.380467146	0.465157
JOSD1	136.4796596	188.3706231	1.380210235	0.464888
SEM1	705.5117888	973.3865236	1.379688531	0.464343
METTL8	213.5246288	294.5884193	1.379646091	0.464298
TIMM8A	45.12633907	62.23699	1.379172148	0.463803
SUMO1	289.4689555	399.1465625	1.378892468	0.46351
ZNF600	552.522493	761.7807576	1.378732572	0.463343
COX4I1	968.5653263	1335.190892	1.378524355	0.463125
TRIM62	166.1970049	229.0321232	1.378076118	0.462656
TULP4	2306.946505	3177.405796	1.37732097	0.461865
NEU3	266.3554647	366.7833277	1.3770445	0.461575
USP22	2890.286985	3979.848054	1.376973316	0.461501
ZNF562	905.8287086	1247.22928	1.376893079	0.461417
DHFR2	94.6552478	130.2827657	1.376392422	0.460892
ANXA7	1567.314801	2156.71916	1.376059972	0.460543
PSMG4	132.07709	181.7320108	1.37595408	0.460432
SMCO4	44.02569665	60.57733694	1.37595408	0.460432
RPL9	150.788011	207.4566333	1.375816498	0.460288
TGOLN2	169.4989321	233.1812559	1.375709292	0.460176
ARPC4	62.73661773	86.30195947	1.375623401	0.460086
ACOT9	369.8158519	508.683665	1.375505302	0.459962
C1orf35	81.44753881	112.026582	1.375444656	0.459898
SHOC2	1259.134924	1731.847975	1.375426844	0.459879
AP1M1	324.6895128	446.446675	1.374995672	0.459427
ZNF140	299.3747372	411.5939605	1.374845334	0.459269
ENSG000002	18.71092108	25.72462253	1.374845334	0.459269
ANAPC5	1307.563191	1797.404271	1.374621345	0.459034
RPL24	1548.60388	2128.505058	1.374467084	0.458872
RUNX3	136.4796596	187.5407965	1.374130014	0.458519
ABTB1	136.4796596	187.5407965	1.374130014	0.458519
LGALSL	210.2227015	288.7796336	1.373684343	0.458051
SMAD1	482.0813783	662.2015736	1.373630269	0.457994
PIGT	1944.83515	2671.211611	1.37348999	0.457846
FXN	30.81798766	42.3211532	1.373261411	0.457606
SH3BP5	320.2869431	439.8080627	1.373168879	0.457509
SMG8	245.4432588	336.9095725	1.372657673	0.456972
PTGR2	42.92505424	58.91768387	1.372570983	0.456881
PLXNC1	680.1970133	933.55485	1.372477138	0.456782
RNF24	140.8822293	193.3495823	1.372419951	0.456722
TMEM128	55.03212081	75.51421454	1.372184343	0.456474
ZNF514	55.03212081	75.51421454	1.372184343	0.456474
TAF8	342.2997915	469.6818179	1.372135857	0.456423
KLHL28	347.8030036	477.1502567	1.371898034	0.456173
DLG3	639.4732439	877.1266458	1.371639321	0.455901
XPO1	4650.214209	6377.216909	1.371381322	0.45563
AGL	1220.61244	1673.760118	1.371246158	0.455488
SAP18	394.029985	540.2170732	1.371004984	0.455234
ALKBH6	12.10706658	16.59653067	1.370813529	0.455032
ENSG000002	12.10706658	16.59653067	1.370813529	0.455032
ENSG000002	12.10706658	16.59653067	1.370813529	0.455032
ATP5F1B	1929.426156	2642.997509	1.369836052	0.454003
NFXL1	533.8115719	731.0771759	1.36954164	0.453693
MIER2	203.618847	278.8217152	1.369331569	0.453472
CASKIN2	221.2291257	302.8866847	1.369108537	0.453237
BPNT1	388.526773	531.9188079	1.369066033	0.453192
TBCEL	71.54175706	97.91953094	1.368704585	0.452811
PHKA2	1095.139204	1498.666719	1.368471436	0.452565
ARPC2	2267.323378	3102.721408	1.368451205	0.452544
ENSG000002	29.71734524	40.66150013	1.368274986	0.452358
SDE2	527.2077174	721.1192575	1.367808614	0.451866
RPP25L	47.3276239	64.7264696	1.367625591	0.451673
UBTF	1608.03857	2199.040313	1.367529582	0.451572
BIRC2	856.2997999	1170.885239	1.367377686	0.451412
CBL	679.0963709	928.5758908	1.367369832	0.451404
BCL7C	165.0963624	225.7128171	1.367158027	0.45118
YEATS4	100.1584599	136.921378	1.367047558	0.451063
ATP5F1A	1024.69809	1400.747188	1.366985264	0.450998
TFEB	170.5995745	233.1812559	1.366833748	0.450838
SHARPIN	369.8158519	505.3643588	1.366529737	0.450517
TCEAL9	123.2719506	168.4547863	1.366529737	0.450517
SNX22	17.61027866	24.06496947	1.366529737	0.450517
MCFD2	263.0535375	359.3148889	1.365938251	0.449892
PCNX3	599.8501169	819.0387884	1.365405733	0.44933
GOLGA7	488.6852328	667.1805328	1.365256177	0.449172
CA11	63.83726015	87.131786	1.36490485	0.4488
KCTD13	335.695937	458.0642464	1.364521271	0.448395
H2AC18	46.22698148	63.06681654	1.364285846	0.448146
AZI2	650.479668	887.0845642	1.363739111	0.447568
EMILIN3	51.73019357	70.53525534	1.363521968	0.447338
SNX6	1004.886526	1370.043607	1.363381408	0.447189
SMU1	1561.811589	2129.334885	1.363375006	0.447182
FICD	108.9635992	148.5389495	1.363197899	0.446995
MED14	2677.862999	3650.40692	1.363179118	0.446975
ASAH2B	28.61670282	39.00184707	1.36290499	0.446685
RTKN	171.7002169	234.0110824	1.36290499	0.446685
NELL2	477.6788087	650.5840022	1.361969571	0.445694
GTF2E1	321.3875856	437.3185831	1.360720211	0.44437
ELK1	287.2676707	390.8482972	1.360571819	0.444213
RBM4B	450.1627483	612.4119816	1.3604235	0.444056
EXOC1	712.1156433	968.4075644	1.359902108	0.443503
RABL6	487.5845904	663.0314002	1.359828455	0.443425
BTG2	493.0878025	670.499839	1.359798063	0.443392
NBAS	2860.56964	3888.567135	1.359368107	0.442936
NT5C3B	239.9400468	326.1218276	1.359180479	0.442737

PTPN11	1088.53535	852.269485	0.782950673	-0.353007
AKAP6	323.5888704	253.3473828	0.782929841	-0.353045
ZCCHC14	779.2548307	610.0338296	0.782842538	-0.353206
USP4	1117.152053	874.4929396	0.782787748	-0.353307
RBBP5	685.7002254	536.6964293	0.782698342	-0.353472
FHAD1	97.95717505	76.67091847	0.782698342	-0.353472
WDR82	690.102795	540.0299475	0.782535517	-0.353772
RCOR1	537.1134992	420.0232925	0.782000998	-0.354758
DNAJC17	112.2655265	87.78264578	0.781919869	-0.354907
RPS23	1151.271967	900.0499125	0.781787395	-0.355152
PRKD3	862.9036544	674.481848	0.781642127	-0.35542
KIF27	666.9893043	521.140011	0.781331886	-0.355993
EEF1A1	17474.89964	13651.86818	0.781227272	-0.356186
RPL9	150.788011	117.7843095	0.781125162	-0.356374
CYBA	175.0021442	136.674246	0.780986122	-0.356631
ARL6IP5	607.5546138	474.4707563	0.780951614	-0.356695
DBNL	567.9314868	443.3579198	0.780653882	-0.357245
SGF29	130.9764475	102.2278913	0.780505909	-0.357519
ARHGEF37	334.5952946	261.1255919	0.780422188	-0.357673
TRMU	203.618847	158.8977006	0.780368335	-0.357773
EPHB2	528.3083598	412.2450834	0.78031149	-0.357878
SPICE1	48.42826632	37.77987287	0.780120284	-0.358232
RNH1	24.21413316	18.88993643	0.780120284	-0.358232
ATCAY	24.21413316	18.88993643	0.780120284	-0.358232
CD300LF	24.21413316	18.88993643	0.780120284	-0.358232
GPRC5D-AS1	24.21413316	18.88993643	0.780120284	-0.358232
FERMT3	135.3790172	105.5614095	0.779747199	-0.358922
RELCH	1222.813725	953.3862036	0.779665933	-0.359072
ERICH5	111.164884	86.67147305	0.779665933	-0.359072
NUMB	1285.550342	1002.277804	0.779648817	-0.359104
HFE	86.95075089	67.78153662	0.779539405	-0.359306
CLP1	86.95075089	67.78153662	0.779539405	-0.359306
FAM149B1	449.0621058	350.0194104	0.779445439	-0.35948
RHBDD1	449.0621058	350.0194104	0.779445439	-0.35948
LARS1	2359.777341	1838.990871	0.779306945	-0.359736
NECTIN3	916.8351328	714.4840663	0.779293944	-0.35976
UGP2	819.9786001	638.9243206	0.779196336	-0.359941
STIP1	1175.486101	915.6063307	0.77891719	-0.360458
ZNF141	370.9164943	288.9049102	0.77889475	-0.3605
RRP8	221.2291257	172.2317734	0.778522145	-0.36119
ZMAT2	365.4132822	284.4602192	0.77846163	-0.361302
CRYBG3	2533.678842	1972.331598	0.778445778	-0.361332
PRMT9	523.9057902	407.8003924	0.778384969	-0.361444
MRAS	144.1841565	112.2284459	0.778368779	-0.361474
KLHDC1	172.8008594	134.4519005	0.778074258	-0.36202
EIF3C	321.3875856	250.0138646	0.777920106	-0.362306
COMTD1	67.13918739	52.22511838	0.777863427	-0.362411
GTF3A	407.237694	316.6842285	0.777639774	-0.362826
TAF7	1120.45398	871.1594214	0.777505759	-0.363075
BBS4	497.4903722	386.6881105	0.777277576	-0.363498
FAF1	1042.308368	810.0449212	0.777164365	-0.363708
CCT4	1428.633856	1110.061559	0.777009136	-0.363997
ZNF148	2521.571776	1958.997526	0.776895405	-0.364208
DENND4C	3088.40262	2399.021927	0.77678406	-0.364414
SNX14	100.1584599	77.7820912	0.776590328	-0.364774
FAXDC2	214.6252712	166.6759097	0.776590328	-0.364774
TWF1P1	85.85010847	66.67036389	0.776590328	-0.364774
PLA2G12A	57.23340565	44.44690926	0.776590328	-0.364774
PRORP	14.30835141	11.11172731	0.776590328	-0.364774
ICAM2	14.30835141	11.11172731	0.776590328	-0.364774
FBXL9P	14.30835141	11.11172731	0.776590328	-0.364774
SOCS1	14.30835141	11.11172731	0.776590328	-0.364774
FAN1	14.30835141	11.11172731	0.776590328	-0.364774
ENSG00000274	14.30835141	11.11172731	0.776590328	-0.364774
SLC4A7	1578.321225	1225.623523	0.776536172	-0.364875
USF3	4753.674596	3690.204641	0.776284654	-0.365342
RIOX1	233.3361923	181.1211552	0.776224012	-0.365455
CABIN1	1994.364058	1547.863615	0.776118888	-0.36565
R3HCC1L	294.9721676	228.9015827	0.776010783	-0.365851
MAP1A	680.1970133	527.8070474	0.775962019	-0.365942
CCDC14	3257.901552	2527.917964	0.775934424	-0.365993
MICU3	118.869381	92.22733671	0.775871263	-0.366111
PDE7B	118.869381	92.22733671	0.775871263	-0.366111
ZFHX3	8391.297782	6510.361033	0.775846741	-0.366156
BTN3A1	418.2441182	324.4624376	0.775772864	-0.366294
CAMKK1	90.25267814	70.00388208	0.775643267	-0.366535
NEK7	607.5546138	471.1372381	0.775464835	-0.366867
SMARCC2	3334.946521	2585.698946	0.775334456	-0.367109
HBS1L	1768.732363	1371.187151	0.775237215	-0.36729
MCMDC2	61.63597531	47.78042745	0.775203559	-0.367353
STAT5B	956.4582598	741.1522119	0.774892374	-0.367932
CDC27	785.8586852	608.9226568	0.774850069	-0.368011
POGLUT3	392.9293426	304.4613284	0.774850069	-0.368011
ITGAV	1878.796605	1455.636278	0.77477055	-0.368159
ZNF484	628.4668197	486.6936564	0.774414243	-0.368823
MRPL19	274.0599617	212.2339917	0.774407142	-0.368836
OSBPL5	439.1563241	340.0188558	0.774254718	-0.36912
BCL2L13	439.1563241	340.0188558	0.774254718	-0.36912
INTS10	996.0813867	771.1538756	0.774187617	-0.369245
HEATR1	2435.721667	1885.660125	0.774168966	-0.36928
CLDN15	66.03854498	51.11394565	0.774001693	-0.369591
BEND6	33.01927249	25.55697282	0.774001693	-0.369591
TMEM71	33.01927249	25.55697282	0.774001693	-0.369591
CTR9	910.2312783	704.4835117	0.773961001	-0.369667
PMS1	499.691657	386.6881105	0.773853446	-0.369868
ANKRD10	1470.458268	1137.840877	0.773800183	-0.369967
AKAP12	1842.475405	1425.634614	0.773760459	-0.370041
RNF141	301.5760221	233.3462736	0.773756057	-0.370049
TEK	117.7687385	91.11616398	0.773687186	-0.370178
YME1L1	3178.655298	2459.025255	0.77360551	-0.37033
FYCO1	1633.353346	1263.403396	0.773502806	-0.370522
FAM210A	221.5636844	121.1178277	1.829323466	0.87131
LRP12	1687.037342	922.2733671	1.829216155	0.871226
ATRX	8923.95454	4879.159464	1.828994237	0.871051
RNF8	331.1007868	181.1211552	1.828062472	0.870315
ADGRV1	4763.204302	2606.811228	1.827214894	0.869646
FAM168B	550.1749916	301.1278102	1.827048094	0.869515
PRRC2C	12920.39912	7074.836781	1.826246954	0.868882
BAMBI	259.7357049	142.2301096	1.826165399	0.868817
C9orf72	665.5208798	364.4646559	1.826023097	0.868705
RGPD8	624.8593796	342.2412013	1.825786543	0.868518
PDCD6	73.02473494	40.00221833	1.825517133	0.868305
LANCL3	36.51236747	20.00110917	1.825517133	0.868305
PI4K2A	36.51236747	20.00110917	1.825517133	0.868305
FRG1DP	18.25618373	10.00055458	1.825517133	0.868305
MRPL21	393.3377768	215.5675099	1.82466169	0.867629
PCSK5	788.3352067	432.2461925	1.823810644	0.866956
FAF1	1477.091229	810.0449212	1.823468293	0.866685
NDEL1	773.3983291	424.4679834	1.822041613	0.865556
ATXN3	856.3809824	470.0260654	1.821986152	0.865512
DSCAML1	82.98265334	45.55808199	1.821469424	0.865103
MTPAP	813.2300027	446.691438	1.82056322	0.864385
BGN	1053.879697	578.9209931	1.820420593	0.864272
KLF11	861.3599416	473.3595836	1.819673609	0.86368
ZZZ3	2877.008591	1581.198797	1.819510992	0.863551
UBE2R2	1524.391342	837.8242395	1.819464358	0.863514
NUCKS1	6674.294808	3669.092359	1.819058817	0.863192
ZNF568	232.3514293	127.7848641	1.818301651	0.862592
SRGAP2B	195.8390619	107.7837549	1.816962695	0.861529
RMDN1	882.105605	485.5824836	1.81659272	0.861235
METAP2	1547.626485	852.269485	1.81588865	0.860676
COPS2	528.5995018	291.1272556	1.81569912	0.860525
SERPINE2	117.0055412	64.44801842	1.815502541	0.860369
PLK2	407.4448279	224.4568918	1.815247573	0.860166
PPIL4	1716.081271	945.6079945	1.814791416	0.859804
MRPL3	1556.754577	857.8253487	1.814768681	0.859786
ZMAT2	516.1521038	284.4602192	1.814496611	0.859569
DCAF17	614.9014612	338.9076831	1.814362707	0.859463
POU2F3	14.10705107	7.77820912	1.813663126	0.858907
TMEM121B	14.10705107	7.77820912	1.813663126	0.858907
RPS18P9	14.10705107	7.77820912	1.813663126	0.858907
RFX3-DT	14.10705107	7.77820912	1.813663126	0.858907
NGDN	348.527144	192.2328825	1.813046444	0.858416
ARID4A	960.9391256	530.0293929	1.812992144	0.858373
RASGRP3	151.0284291	83.33795486	1.812240645	0.857775
PDCD2	835.6353191	461.1366835	1.812120677	0.857679
JAG2	958.449646	528.9182202	1.812094213	0.857658
MYB	807.421217	445.5802653	1.812066826	0.857636
AKIRIN1	605.7733694	334.4629922	1.811182055	0.856932
UBXN7	1748.444506	965.6091036	1.810716675	0.856561
GIN1	213.2654191	117.7843095	1.810643709	0.856503
TMEM267	464.7028587	256.680901	1.810430215	0.856333
RCC1	331.9306133	183.3435007	1.810430215	0.856333
PTPRD	199.158368	110.0061004	1.810430215	0.856333
STK17A	132.7722453	73.33740027	1.810430215	0.856333
ZNF66	118.6651943	65.55919115	1.810046649	0.856027
RAB21	432.3396239	238.9021373	1.809693412	0.855745
ADA	52.2790716	28.89049102	1.809559816	0.855639
RICTOR	2519.353355	1392.299432	1.809491045	0.855584
WDCP	319.4832153	176.6764643	1.808295274	0.85463
CDK8	415.7430932	230.0127554	1.807478426	0.853978
ATF5	186.71097	103.339064	1.806780154	0.853421
PACSIN1	62.23699	34.44635467	1.806780154	0.853421
ZNF346	499.5555731	276.6820101	1.805522422	0.852416
HNRNPD	3833.798584	2123.45109	1.805456506	0.852364
TMEM126B	567.6013488	314.461883	1.804992527	0.851993
SRGAP2C	240.6496947	133.3407278	1.80477262	0.851817
ADARB2	24.06496947	13.33407278	1.80477262	0.851817
MAD2L1P1	24.06496947	13.33407278	1.80477262	0.851817
IQCB1	1092.881544	605.5891386	1.80465843	0.851726
NCBP1	1752.593638	971.1649673	1.80463021	0.851703
ELP3	563.4522162	312.2395375	1.8045511	0.85164
ZNF248	555.1539508	307.7948466	1.803649271	0.850919
PRKD3	1216.525698	674.481848	1.80364483	0.850915
UBE2F	58.08785734	32.22400921	1.802626636	0.850101
ROR1	150.1986025	83.33795486	1.802283279	0.849826
ITGB1BP1	558.473257	310.0171921	1.801426731	0.84914
BMP3	340.2288787	188.8993643	1.801111824	0.848888
APOO	418.2325728	232.2351009	1.800901635	0.848719
VAV2	1688.696995	937.8297853	1.800643381	0.848512
PAXIP1	711.9911656	395.5774924	1.799877848	0.847899
NCBP2AS2	43.98080627	24.44580009	1.799115026	0.847287
DDX50	877.1266458	487.8048291	1.798109804	0.846481
COL14A1	269.6936233	150.0083187	1.797857783	0.846279
ZBTB6	559.3030835	311.1283648	1.797660216	0.84612
MARK3	1787.446353	994.4995946	1.79733241	0.845857
DCPS	157.6670413	87.78264578	1.796107191	0.844873
SMIM19	365.1236747	203.3446099	1.795590623	0.844458
CCDC32	93.77039827	52.22511838	1.795503796	0.844389
CD24	2280.363314	1270.070432	1.795462091	0.844355
PDHB	681.2875839	380.0210742	1.792762639	0.842184
ADM2	19.9158368	11.11172731	1.792325913	0.841833
DMRT1	9.9579184	5.555863657	1.792325913	0.841833
DDX47	9.9579184	5.555863657	1.792325913	0.841833
PPP1R2B	9.9579184	5.555863657	1.792325913	0.841833
PHEX	59.7475104	33.33518194	1.792325913	0.841833
HNRNPKP2	29.8737552	16.66759097	1.792325913	0.841833
GID8	718.6297779	401.133356	1.791498431	0.841167
AAMDC	185.0513169	103.339064	1.790719886	0.84054
KMT5A	250.6076131	140.0077642	1.789955111	0.839923
ZNF275	326.1218276	182.232328	1.789593709	0.839632
UPF3A	397.4869095	222.2345463	1.7885919	0.838824
STEAP3	94.6552478	128.6231127	1.35885876	0.442396
PELP1	622.9636076	846.423064	1.358703869	0.442231
NBN	2345.468989	3186.533888	1.358591353	0.442112
DHX15	2388.394043	3244.621745	1.358495159	0.442009
PUM2	3902.878008	5300.931895	1.358211014	0.441708
NDUFS2	703.310504	955.1303399	1.358049303	0.441536
RPL35	873.9100785	1186.651943	1.357865039	0.44134
HDHD5	232.2355498	315.3340827	1.357820036	0.441292
CXADR	519.5032205	705.3525534	1.357744333	0.441212
ZFP62	2189.177766	2971.608816	1.357408641	0.440855
COX10-DT	33.01927249	44.8106328	1.357105394	0.440533
HYAL1	16.50963624	22.4053164	1.357105394	0.440533
RHBDL3	16.50963624	22.4053164	1.357105394	0.440533
SSBP3P1	16.50963624	22.4053164	1.357105394	0.440533
SSX2B	16.50963624	22.4053164	1.357105394	0.440533
SP4	517.3019357	702.0332472	1.357105394	0.440533
NSMF	258.6509678	351.0166236	1.357105394	0.440533
C22orf39	49.52890873	67.2159492	1.357105394	0.440533
CACNA1I	22.01284833	29.8737552	1.357105394	0.440533
PPP1R36	11.00642416	14.9368776	1.357105394	0.440533
HRAS	11.00642416	14.9368776	1.357105394	0.440533
CKLF	11.00642416	14.9368776	1.357105394	0.440533
ZBED5-AS1	11.00642416	14.9368776	1.357105394	0.440533
ENSG000002	11.00642416	14.9368776	1.357105394	0.440533
ENSG000002	11.00642416	14.9368776	1.357105394	0.440533
CCDC163	11.00642416	14.9368776	1.357105394	0.440533
CBLN4	5.503212081	7.4684388	1.357105394	0.440533
PNPLA3	5.503212081	7.4684388	1.357105394	0.440533
SLC17A7	5.503212081	7.4684388	1.357105394	0.440533
GPR84	5.503212081	7.4684388	1.357105394	0.440533
PMAIP1	5.503212081	7.4684388	1.357105394	0.440533
TCTE1	5.503212081	7.4684388	1.357105394	0.440533
ZNF157	5.503212081	7.4684388	1.357105394	0.440533
MEPE	5.503212081	7.4684388	1.357105394	0.440533
NLRP4	5.503212081	7.4684388	1.357105394	0.440533
OXGR1	5.503212081	7.4684388	1.357105394	0.440533
TBATA	5.503212081	7.4684388	1.357105394	0.440533
TTC16	5.503212081	7.4684388	1.357105394	0.440533
SPNS1	5.503212081	7.4684388	1.357105394	0.440533
METTL7B	5.503212081	7.4684388	1.357105394	0.440533
MAPT	5.503212081	7.4684388	1.357105394	0.440533
TUBA5P	5.503212081	7.4684388	1.357105394	0.440533
H3P31	5.503212081	7.4684388	1.357105394	0.440533
ENSG000002	5.503212081	7.4684388	1.357105394	0.440533
G3BP1P1	5.503212081	7.4684388	1.357105394	0.440533
ENSG000002	5.503212081	7.4684388	1.357105394	0.440533
ENSG000002	5.503212081	7.4684388	1.357105394	0.440533
HMGN3-AS1	5.503212081	7.4684388	1.357105394	0.440533
ENSG000002	5.503212081	7.4684388	1.357105394	0.440533
LINC01232	5.503212081	7.4684388	1.357105394	0.440533
ENSG000002	5.503212081	7.4684388	1.357105394	0.440533
ADCY10P1.1	5.503212081	7.4684388	1.357105394	0.440533
FOXO1	71.54175706	97.0897044	1.357105394	0.440533
DFFB	38.52248457	52.2790716	1.357105394	0.440533
ADA	38.52248457	52.2790716	1.357105394	0.440533
ZCCHC7	638.3726015	865.5090743	1.355805485	0.43915
TMEM161B-I	125.4732355	170.1144393	1.355782679	0.439126
ASTN2	1226.115652	1662.142546	1.355616449	0.438949
ARRDC2	108.9635992	147.7091229	1.355582268	0.438913
CFAP47	183.8072835	248.94796	1.354396601	0.43765
MBOAT1	405.0364092	548.5153386	1.354237116	0.43748
SPTBN1	10383.46056	14059.75095	1.354052522	0.437284
ECSIT	220.1284833	297.9077255	1.353335657	0.43652
NR4A3	42.92505424	58.08785734	1.353238997	0.436417
CYB5D2	42.92505424	58.08785734	1.353238997	0.436417
GUSB	589.9443351	798.2931251	1.353166863	0.43634
DCAF16	407.237694	551.0048182	1.353030002	0.436194
FAU	519.5032205	702.8630738	1.352952294	0.436111
TSPAN3	1076.428283	1456.345566	1.352942494	0.436101
PGM1	824.3811698	1115.286861	1.352877651	0.436031
HNRNPH1	117.7687385	159.3266944	1.352877651	0.436031
CD2BP2	353.3062156	477.9800832	1.352877651	0.436031
ARRB2	310.3811614	419.8922259	1.352827678	0.435978
MKRN2	363.2119974	491.2573078	1.352536016	0.435667
TELO2	144.1841565	195.0092353	1.352501135	0.43563
IFNLR1	69.34047223	93.77039827	1.352318426	0.435435
ASB1	228.9336226	309.5252969	1.352030748	0.435128
FDXACB1	31.91863007	43.15097974	1.351905757	0.434995
CD2AP	1433.036426	1936.815129	1.351546335	0.434611
TMEM223	143.0835141	193.3495823	1.351305798	0.434354
LRRC40	227.8329802	307.8656439	1.351277781	0.434324
HSF2	254.2483982	343.5481848	1.351230479	0.434274
PDIA4	2763.713107	3734.2194	1.351160289	0.434199
FAM168B	407.237694	550.1749916	1.350992307	0.434019
INO80E	369.8158519	499.5555731	1.350822499	0.433838
PRRC2A	52.83083598	71.36508187	1.350822499	0.433838
CDH6	152.9892959	206.6268068	1.350596495	0.433597
TCIRG1	279.5631737	377.5710727	1.350575141	0.433574
DCTN5	347.8030036	469.6818179	1.350424847	0.433413
GTDC1	247.6445437	334.4200929	1.350403639	0.433391
TBC1D25	94.6552478	127.7932861	1.350091929	0.433058
EMC4	278.4625313	375.9114196	1.349953323	0.43291
PRKCE	278.4625313	375.9114196	1.349953323	0.43291
SEPTIN7	593.2462624	800.7826047	1.34983169	0.43278
RBBP9	225.6316953	304.5463377	1.349749809	0.432692
COMMD2	383.0235609	516.9819303	1.349739241	0.432681
PSAP	7105.74744	9590.305246	1.349654674	0.43259
DOCK7	2232.10282	3012.270316	1.349521307	0.432448
MYH10	2812.141374	3794.796737	1.34943313	0.432353
PAWR	622.9636076	840.6142783	1.349379431	0.432296
ZDHHC18	234.4368347	316.1639092	1.348610212	0.431473

SETX	7714.402696	5965.886395	0.773343917	-0.370818
MPI	465.5717421	360.019965	0.773285688	-0.370927
ARRB2	310.3811614	240.01331	0.773285688	-0.370927
SOX10	51.73019357	40.00221833	0.773285688	-0.370927
DOP1B	2270.625305	1755.652916	0.773202391	-0.371082
CBFB	314.7837311	243.3468282	0.773060372	-0.371347
ZNF304	211.3233439	163.3423915	0.772950061	-0.371553
CD46	3068.591057	2371.242609	0.772746373	-0.371933
TSEN2	553.6231354	427.8015016	0.772730535	-0.371963
SFXN1	394.029985	304.4613284	0.772685684	-0.372046
EIF2B3	425.9486151	328.9071285	0.772175603	-0.372999
NPIPA5	74.84368431	57.78098203	0.772022149	-0.373286
UQCC6	74.84368431	57.78098203	0.772022149	-0.373286
SERPINI2	18.71092108	14.44524551	0.772022149	-0.373286
ZNF763	18.71092108	14.44524551	0.772022149	-0.373286
ENSG000002	18.71092108	14.44524551	0.772022149	-0.373286
SPEG	505.1948691	390.0216287	0.772022149	-0.373286
NFATC2	505.1948691	390.0216287	0.772022149	-0.373286
ZNF227	476.5781663	367.7981741	0.771747848	-0.373799
IFT88	391.8287002	302.238983	0.771354887	-0.374533
GNA13	690.102795	532.2517384	0.771264429	-0.374703
AAK1	2079.113524	1603.422251	0.771204762	-0.374814
APPBP2	1266.839421	976.7208309	0.770990241	-0.375215
ZDHHC21	325.7901552	251.1250373	0.770818373	-0.375537
POLR1D	334.5952946	257.7920737	0.770459352	-0.376209
NUPR1	41.82441182	32.22400921	0.770459352	-0.376209
UBE2F	41.82441182	32.22400921	0.770459352	-0.376209
PRKXP1	41.82441182	32.22400921	0.770459352	-0.376209
ATP5MC2	878.3126482	676.7041934	0.770459352	-0.376209
IDI1	320.2869431	246.6803464	0.770185459	-0.376722
ATF6	1754.424012	1351.186041	0.770159341	-0.376771
SSX2IP	408.3383364	314.461883	0.770101298	-0.37688
CCDC47	1668.573903	1284.515678	0.76982846	-0.377391
CCDC149	272.9593192	210.0116462	0.769388079	-0.378217
TMEM41A	161.7944352	124.4513459	0.76919423	-0.37858
ARHGEF38	1612.44114	1240.068768	0.769062968	-0.378826
TOX4	1543.100668	1186.732477	0.769057069	-0.378837
POLD2	494.1884449	380.0210742	0.768980089	-0.378982
ENY2	401.7344819	308.9060193	0.768930807	-0.379074
MIER3	359.9100701	276.6820101	0.768753178	-0.379408
UXT	313.6830886	241.1244827	0.768688181	-0.37953
PRKN	50.62955115	38.8910456	0.768149129	-0.380542
PXDN	1724.706666	1324.517896	0.767967053	-0.380884
CIZ1	2636.038587	2023.445544	0.767608469	-0.381557
CX3CR1	55.03212081	42.22456379	0.767271244	-0.382191
CEP295NL	27.51606041	21.1122819	0.767271244	-0.382191
FAM217B	165.0963624	126.6736914	0.767271244	-0.382191
TEX264	311.4818038	238.9021373	0.766985854	-0.382728
OGDH	1876.59532	1438.968687	0.766797547	-0.383082
DNAI7	233.3361923	178.8988098	0.766699791	-0.383266
NEK4	846.3940181	648.9248752	0.766693598	-0.383278
XRN2	2015.276264	1544.530097	0.766411099	-0.38381
CPNE2	274.0599617	210.0116462	0.766298167	-0.384022
DLAT	497.4903722	381.1322469	0.766109795	-0.384377
INO80	1431.935784	1096.727486	0.765905496	-0.384762
LYRM2	95.75589022	73.33740027	0.765878737	-0.384812
ARHGAP42	127.6745203	97.78320037	0.765878737	-0.384812
BRCA1	574.5353413	440.0244016	0.765878737	-0.384812
RAP1GAP2	523.9057902	401.133356	0.76565933	-0.385225
FIS1	560.2269899	428.9126743	0.76560516	-0.385328
LOXL2	200.3169198	153.3418369	0.76549618	-0.385533
TSNAX	336.7965794	257.7920737	0.76542367	-0.38567
FSTL3	136.4796596	104.4502368	0.765317242	-0.38587
FAR2	68.23982981	52.22511838	0.765317242	-0.38587
PTPRO	68.23982981	52.22511838	0.765317242	-0.38587
TNKS2	1337.280536	1023.390086	0.765277037	-0.385946
LYAR	209.1220591	160.0088733	0.765145839	-0.386193
PRPF3	909.1306359	695.5941299	0.765120108	-0.386242
ANAPC7	672.4925164	514.4729747	0.765024089	-0.386423
HOOK1	504.0942267	385.5769378	0.764890605	-0.386675
FRRS1L	72.64239948	55.55863657	0.764823808	-0.386801
EIF4G2	9731.880245	7441.523782	0.76465427	-0.38712
FRMD4A	956.4582598	731.1516573	0.764436555	-0.387531
IFT20	117.7687385	90.00499125	0.764251977	-0.38788
ZNF160	1869.991465	1428.968133	0.764157569	-0.388058
GALK2	239.9400468	183.3435007	0.764122135	-0.388125
GLB1L2	325.7901552	248.9026918	0.763996971	-0.388361
PHF19	122.1713082	93.33850944	0.763996971	-0.388361
DDIAS	40.7237694	31.11283648	0.763996971	-0.388361
LDLRAP1	424.8479727	324.4624376	0.763714219	-0.388895
MKRN1	1331.777324	1016.723049	0.763433219	-0.389426
EBAG9	361.0107125	275.5708374	0.763331469	-0.389618
KIAA0586	956.4582598	730.0404846	0.763274798	-0.389726
ATP6V0A2	806.7708911	615.5896932	0.763029133	-0.39019
ZNF573	400.6338395	305.5725011	0.762722643	-0.39077
PTPRG	1656.466837	1263.403396	0.762709743	-0.390794
CARD8	409.4389789	312.2395375	0.762603352	-0.390995
SNX30	390.7280578	297.794292	0.762152311	-0.391849
CDC42SE1	449.0621058	342.2412013	0.76212443	-0.391902
MTMR12	1180.989313	900.0499125	0.762115205	-0.391919
MAP4K3	2033.987185	1550.08596	0.762092294	-0.391962
CLIP2	291.6702403	222.2345463	0.76193768	-0.392255
SLC35B4	175.0021442	133.3407278	0.76193768	-0.392255
TPST1	304.8779493	232.2351009	0.761731379	-0.392646
SPNS2	62.73661773	47.78042745	0.761603497	-0.392888
EXOC8	752.8394127	573.3651294	0.761603497	-0.392888
WBP11	1562.912231	1190.065995	0.761441348	-0.393195
C6orf89	1370.299808	1043.391195	0.761432782	-0.393211
ZNF175	331.2933673	252.23621	0.761368125	-0.393334
PHIP	3150.038595	2397.910754	0.761232182	-0.393592
MAP2K3	281.7644586	214.4563372	0.761119192	-0.393806
RBBP6	2097.801476	1173.398404	1.787799837	0.838185
FAM111A	2290.321232	1281.182159	1.787662445	0.838074
HINT1	1106.158769	618.9232114	1.787231031	0.837726
C9orf78	863.8494212	483.3601382	1.787175551	0.837681
HNRNPF	3750.815931	2099.00529	1.786949251	0.837499
IMMT	2851.283969	1595.644042	1.786917316	0.837473
MCF2L2	101.2388371	56.6698093	1.786468639	0.837111
PKD2L2-DT	91.28091867	51.11394565	1.785831978	0.836596
ALG9	45.64045934	25.55697282	1.785831978	0.836596
DUSP19	45.64045934	25.55697282	1.785831978	0.836596
TMEM69	355.1657563	198.8999189	1.785650583	0.83645
CSGALNAC	442.2975423	247.7915191	1.784958355	0.83589
OCIAD1	1245.569627	697.8164753	1.784953022	0.835886
FMN1	747.6737066	418.9121198	1.784798461	0.835761
PSMA6	188.3706231	105.5614095	1.784464834	0.835491
HSCB	35.68254093	20.00110917	1.784028108	0.835138
STK3	2160.038466	1211.178277	1.783419094	0.834646
TSTD3	97.0897044	54.44746384	1.783181393	0.834453
SPAG16	414.0834401	232.2351009	1.783035547	0.834335
DCP2	429.8501443	241.1244827	1.782689752	0.834056
PHF3	3563.275134	1998.999744	1.78252906	0.833926
AGAP1	2519.353355	1413.411714	1.782462484	0.833872
CAPRIN1	3930.888289	2205.677872	1.782167894	0.833633
TRUB1	312.8446031	175.5652916	1.781927397	0.833439
DTNBP1	477.1502567	267.7926283	1.78179011	0.833327
HEYL	128.6231127	72.22622754	1.780836644	0.832555
RPL17P6	77.1738676	43.33573653	1.780836644	0.832555
LRRIQ1	443.1273688	248.9026918	1.78032373	0.83214
MLLT10	1809.851669	1016.723049	1.780083249	0.831945
PSMG2	907.8302275	510.0282837	1.779960556	0.831845
TTC9C	185.8811435	104.4502368	1.779614381	0.831565
ANKRD13B	227.3724701	127.7848641	1.779338044	0.831341
HEMGN	67.2159492	37.77987287	1.779147046	0.831186
PSMD5	1039.772646	584.4768567	1.778980013	0.83105
RPL7L1	575.0697876	323.3512648	1.778467723	0.830635
C9orf85	82.98265334	46.66925472	1.778101104	0.830337
FUT8	841.4441048	473.3595836	1.77760023	0.829931
MRPS23	473.8309506	266.6814555	1.776767528	0.829255
ZBTB39	302.0568581	170.0094279	1.776706515	0.829205
EIF5	1510.284291	850.0471396	1.776706515	0.829205
RBMX2	219.0742048	123.3401732	1.776178832	0.828777
DMAC1	443.9571954	250.0138646	1.775730302	0.828412
LPIN1	863.8494212	486.6936564	1.774934622	0.827766
ZNF583	214.9250721	121.1178277	1.774512276	0.827423
LRATD1	1295.359219	730.0404846	1.77436628	0.827304
MIER1	1107.818422	624.4790751	1.773988059	0.826996
F12	63.06681654	35.55752741	1.773655851	0.826726
PNMA6A	15.76670413	8.889381852	1.773655851	0.826726
ENSG000002	15.76670413	8.889381852	1.773655851	0.826726
ZNF112	331.1007868	186.6770189	1.773655851	0.826726
LZTFL1	173.4337455	97.78320037	1.773655851	0.826726
RCL1	510.343318	287.7937374	1.773295425	0.826433
ZSCAN20	147.7091229	83.33795486	1.77241118	0.825713
PHF5A	131.9424188	74.44857301	1.772262563	0.825592
ACAP2	1242.25032	701.1499935	1.771732628	0.825161
RAB14	925.2565847	522.2511838	1.771669674	0.82511
RPS29	619.8804204	350.0194104	1.770988699	0.824555
SIPA1L1	2468.733937	1394.521778	1.770308629	0.824001
PHKA1P1	53.10889814	30.00166375	1.770198432	0.823911
ZNG1F	90.45109214	51.11394565	1.769597142	0.823421
PIP5K1A	980.8549624	554.475193	1.768978982	0.822917
UTP15	288.7796336	163.3423915	1.767940526	0.82207
DCUN1D4	813.2300027	460.0255108	1.767793271	0.82195
POU2F1	1327.722453	751.1527665	1.767579796	0.821775
CUL4B	3108.530194	1758.986434	1.767228066	0.821488
DYNLL1	836.4651456	473.3595836	1.767081886	0.821369
CCDC7	402.4658687	227.7904099	1.766825341	0.821159
PKN2	2659.594039	1505.639051	1.766422063	0.82083
ARCN1	1536.83874	870.0482487	1.76638335	0.820798
TMEM165	1601.565209	906.7169489	1.766334258	0.820758
ZBTB14	484.6186955	274.4596647	1.765719185	0.820256
ZNF548	555.1539508	314.461883	1.765409358	0.820003
GLRX	43.15097974	24.44580009	1.76516946	0.819807
EMC7	502.0450527	284.4602192	1.76490426	0.81959
ZNF292	3245.451572	1838.990871	1.764800263	0.819505
PPP2R5C	3080.316092	1745.652361	1.764564446	0.819312
ERMP1	1221.504657	692.2606117	1.764515612	0.819272
PJA1	1028.984901	583.365684	1.763876295	0.818749
NSRP1	489.5976547	277.7931829	1.762453814	0.817585
ZBTB18	1028.155075	583.365684	1.762453814	0.817585
SYT9	125.3038065	71.11505481	1.761987063	0.817203
LRP2BP	76.34404107	43.33573653	1.761687863	0.816958
ATP5PB	1516.922903	861.1588669	1.761490198	0.816796
RPL9	207.4566333	117.7843095	1.761326565	0.816662
KMT5C	131.1125923	74.44857301	1.761116258	0.81649
LNPEP	1262.166157	716.7064118	1.761064414	0.816448
HDX	344.3780113	195.5664007	1.760926264	0.816334
COX20	618.2207674	351.1305831	1.760657707	0.816114
MACF1	20198.80765	11473.96962	1.760402747	0.815906
MAGEF1	1040.602473	591.1438931	1.760320093	0.815838
PRKG1	54.7685512	31.11283648	1.760320093	0.815838
ZNF48	477.1502567	271.1261465	1.759882855	0.815479
BRSK1	224.8829905	127.7848641	1.75985624	0.815458
RTN3	3431.332715	1950.108144	1.759560221	0.815215
BUD31	318.6533888	181.1211552	1.759338319	0.815033
STRADA	121.1546739	68.89270935	1.75859935	0.814427
PPP2R2D	777.5474618	442.2467471	1.758175649	0.814079
SRD5A1	199.158368	113.3396186	1.757182267	0.813264
POLR3G	33.19306133	18.88993643	1.757182267	0.813264
SCN4B	33.19306133	18.88993643	1.757182267	0.813264
ATP2A1-AS	33.19306133	18.88993643	1.757182267	0.813264
APH1A	316.9850159	427.3606647	1.348204626	0.431039
ATP6V1A	700.0085768	943.5127684	1.347858869	0.430669
TMEM80	88.0513933	118.6651943	1.347681051	0.430479
SARM1	206.9207743	278.8217152	1.347480533	0.430264
ELAC1	51.73019357	69.7054288	1.347480533	0.430264
SLC38A10	823.2805274	1108.648249	1.346622702	0.429346
GTF2H3	154.0899383	207.4566333	1.346334716	0.429037
TECTA	30.81798766	41.49132667	1.346334716	0.429037
LINC02967	15.40899383	20.74566333	1.346334716	0.429037
ENSG000002	15.40899383	20.74566333	1.346334716	0.429037
ENSG000002	15.40899383	20.74566333	1.346334716	0.429037
ZMYND8	2061.503246	2774.939928	1.346075944	0.42876
ZNF460	1143.567471	1539.328219	1.346075557	0.428759
PSME3IP1	374.2184215	503.7047058	1.346017932	0.428698
CCDC82	718.7194978	966.7479114	1.345097655	0.427711
BCAR1	40.7237694	54.7685512	1.344879219	0.427477
MID1	410.5396213	551.8346447	1.34416903	0.426715
ATXN2L	2513.867279	3379.053644	1.34416549	0.426711
SLC25A17	126.5738779	170.1144393	1.343993265	0.426526
KIF27	666.9893043	896.212656	1.343668707	0.426177
ENSG000002	60.5353329	81.32300027	1.343397259	0.425886
TUFM	832.0856667	1117.77634	1.343342861	0.425828
HOOK1	504.0942267	677.1384512	1.343277537	0.425757
JARID2	453.4646755	609.0926755	1.343197626	0.425672
RPSA	886.0171451	1189.971249	1.343056684	0.42552
ZKSCAN3	211.3233439	283.8006744	1.34296888	0.425426
PGF	35.22055732	47.3001124	1.34296888	0.425426
SEC11B	35.22055732	47.3001124	1.34296888	0.425426
RNMT	362.111355	486.2783486	1.342897266	0.425349
RAVER2	607.5546138	815.7194823	1.342627418	0.425059
POC1B	286.1670282	384.2096849	1.342606405	0.425036
PPM1A	958.6595446	1287.060953	1.342563124	0.42499
METTL16	621.8629652	834.8054926	1.342426771	0.424843
ZNF221	225.6316953	302.8866847	1.342394224	0.424808
DAGLA	155.1905807	208.2864599	1.342133388	0.424528
BTBD10	440.2569665	590.8364918	1.342026445	0.424413
PMFBP1	55.03212081	73.85456147	1.342026445	0.424413
RAB35	204.7194894	274.6725825	1.341702167	0.424064
ATOSB	94.6552478	126.9634596	1.341325099	0.423659
RBM12B	2310.248432	3098.572276	1.341229035	0.423556
ZHX1	2368.58248	3175.746143	1.340779209	0.423072
MCL1	1398.916511	1875.407965	1.340614647	0.422895
ZNF26	471.0749542	631.4979919	1.340546735	0.422822
RIGI	19.81156349	26.55444907	1.340351006	0.422611
SYT6	9.905781747	13.27722453	1.340351006	0.422611
RNU1-4	9.905781747	13.27722453	1.340351006	0.422611
ENSG000002	9.905781747	13.27722453	1.340351006	0.422611
MIR181A1H(	9.905781747	13.27722453	1.340351006	0.422611
LRRC37A17I	9.905781747	13.27722453	1.340351006	0.422611
GUSBP2.1	9.905781747	13.27722453	1.340351006	0.422611
ENSG000002	9.905781747	13.27722453	1.340351006	0.422611
GVQW3	113.3661689	151.8582556	1.339537687	0.421735
PMM1	73.74304189	98.74935747	1.339100679	0.421264
ATP5MJ	780.3554732	1044.751606	1.338814991	0.420957
COQ5	215.7259136	288.7796336	1.338641375	0.42077
STRN4	838.6895212	1121.925473	1.33771252	0.419768
NECAB3	238.8394043	319.4832153	1.337648686	0.419699
ZNF285	160.6937928	214.9250721	1.337482104	0.41952
TCF12	2514.967921	3363.28694	1.337308087	0.419332
NOP16	175.0021442	234.0110824	1.337189801	0.419204
MAP4K4	3120.32125	4172.36781	1.337159695	0.419172
AHCTF1	3059.785917	4091.044809	1.337036289	0.419039
ATCAY	24.21413316	32.3632348	1.336543191	0.418506
VWCE	24.21413316	32.3632348	1.336543191	0.418506
PEX13	266.3554647	355.9955828	1.336543191	0.418506
LSM8	478.7794511	639.7962572	1.336306844	0.418251
SPOPL	285.0663858	380.8903788	1.336146237	0.418078
NGDN	260.8522527	348.527144	1.336109389	0.418038
ZNF792	212.4239863	283.8006744	1.336010492	0.417931
RTL6	221.2291257	295.4182459	1.335349697	0.417218
RPS27A	778.1541883	1038.94282	1.335137477	0.416988
INSIG1	119.9700234	160.1565209	1.334971157	0.416809
CDC42SE2	187.1092108	249.7777865	1.334930469	0.416765
MICU2	508.4967963	678.7981043	1.33491127	0.416744
PDSS1	110.0642416	146.8792964	1.334486971	0.416285
MOB1A	731.9272068	976.7058298	1.334430283	0.416224
PLA2G12A	57.23340565	76.34404107	1.333907011	0.415658
HSPD1P1	14.30835141	19.08601027	1.333907011	0.415658
ENSG000002	14.30835141	19.08601027	1.333907011	0.415658
ZNF667	233.3361923	311.18495	1.333633445	0.415362
KIFC3	176.1027866	234.8409089	1.333544536	0.415266
NME7	413.8415485	551.8346447	1.333444278	0.415158
DNAJC24	104.5610295	139.4108576	1.333296527	0.414998
TEC	242.1413316	322.8025215	1.333116157	0.414802
GRSF1	1238.222718	1650.524975	1.332979076	0.414654
GALNT1	801.2676791	1067.986748	1.332871369	0.414538
TP53I13	61.63597531	82.1528268	1.332871369	0.414538
PPP4R3A	2802.235592	3734.2194	1.332585815	0.414228
ZNF37A	571.2334141	760.9509311	1.332119082	0.413723
TANK	891.5203572	1187.481769	1.331973813	0.413566
ENTPD3	84.74946605	112.8564085	1.331647428	0.413212
PNMA1	808.972176	1077.11484	1.331460923	0.41301
SRSF7	1067.623144	1421.492852	1.331455636	0.413004
FAM81A	51.73019357	68.87560227	1.331439098	0.412986
KIAA1586	342.2997915	455.5747668	1.330923296	0.412427
IFRD1	18.71092108	24.894796	1.330495484	0.411964
ADAMTSL4-	18.71092108	24.894796	1.330495484	0.411964
ENSG000002	18.71092108	24.894796	1.330495484	0.411964
ENSG000002	56.13276323	74.684388	1.330495484	0.411964
FAM199X	453.4646755	603.2838898	1.330387839	0.411847
ARFIP1	397.3319123	528.5995018	1.330372632	0.41183

NUDCD3	527.2077174	401.133356	0.760863968	-0.39429
GPCPD1	714.3169282	543.3634657	0.760675611	-0.394647
WASHC2A	1084.13278	824.4901667	0.76050663	-0.394967
TMEM30A	1182.089955	898.9387397	0.760465594	-0.395045
CNP	847.4946605	644.4801842	0.760453386	-0.395068
ATP6V1F	178.3040714	135.5630732	0.760291519	-0.395375
GGT6	89.15203572	67.78153662	0.760291519	-0.395375
OSMR	1452.84799	1104.505695	0.760234865	-0.395483
RPL22P1	191.5117804	145.5636278	0.760076626	-0.395783
PLPBP	298.2740948	226.6792372	0.759969575	-0.395986
LRCH3	1740.11566	1322.29555	0.759889461	-0.396139
RPL22	213.5246288	162.2312188	0.759777548	-0.396351
H2AX	115.5674537	87.78264578	0.759579302	-0.396728
C3orf38	599.8501169	455.5808199	0.759491091	-0.396895
NXF1	977.3704657	742.2633846	0.75944937	-0.396974
ZNF691	253.1477557	192.2328825	0.759370281	-0.397125
SLC6A16	257.5503254	195.5664007	0.759332765	-0.397196
CLN6	137.580302	104.4502368	0.759194705	-0.397458
GKAP1	137.580302	104.4502368	0.759194705	-0.397458
IER5L	137.580302	104.4502368	0.759194705	-0.397458
PJA2	3650.830895	2771.264792	0.75907783	-0.39768
WASHC2C	775.9529035	588.9215477	0.758965583	-0.397894
ADNP	5920.355557	4491.36018	0.758630143	-0.398531
LRRC8A	766.0471217	581.1433385	0.758626098	-0.398539
PGM2L1	805.6702487	611.1450023	0.75855476	-0.398675
GPALPP1	296.07281	224.4568918	0.758113829	-0.399514
RBM22	331.2933673	251.1250373	0.758014081	-0.399703
TTC8	1448.44542	1097.838659	0.757942718	-0.399839
ARAP3	180.5053563	136.674246	0.75717557	-0.4013
OTUD3	180.5053563	136.674246	0.75717557	-0.4013
ADCK1	162.8950776	123.3401732	0.75717557	-0.4013
MSS51	101.2591023	76.67091847	0.75717557	-0.4013
JAK2	1083.032138	820.0454758	0.75717557	-0.4013
ZBTB41	823.2805274	623.3679023	0.75717557	-0.4013
ANP32E	664.7880194	503.3612473	0.75717557	-0.4013
ABRACL	57.23340565	43.33573653	0.75717557	-0.4013
CHSY3	39.62312699	30.00166375	0.75717557	-0.4013
TRAK2	1791.845854	1356.741905	0.75717557	-0.4013
CIP2A	145.284799	110.0061004	0.75717557	-0.4013
MYRFL	92.45396297	70.00388208	0.75717557	-0.4013
LZTR1	35.22055732	26.66814555	0.75717557	-0.4013
HNRNPA3P5	35.22055732	26.66814555	0.75717557	-0.4013
ENSG000002	35.22055732	26.66814555	0.75717557	-0.4013
ANKHD1	22.01284833	16.66759097	0.75717557	-0.4013
GLYATL2	22.01284833	16.66759097	0.75717557	-0.4013
AMY2A	22.01284833	16.66759097	0.75717557	-0.4013
ZNF683	17.61027866	13.33407278	0.75717557	-0.4013
RGS9BP	17.61027866	13.33407278	0.75717557	-0.4013
HYAL4	8.80513933	6.667036389	0.75717557	-0.4013
SMYD1	8.80513933	6.667036389	0.75717557	-0.4013
SIX3	8.80513933	6.667036389	0.75717557	-0.4013
KCNJ16	8.80513933	6.667036389	0.75717557	-0.4013
CCDC105	8.80513933	6.667036389	0.75717557	-0.4013
CXCL5	8.80513933	6.667036389	0.75717557	-0.4013
DYNLRB2	8.80513933	6.667036389	0.75717557	-0.4013
FGG	8.80513933	6.667036389	0.75717557	-0.4013
ZNF197	8.80513933	6.667036389	0.75717557	-0.4013
ENSG000002	8.80513933	6.667036389	0.75717557	-0.4013
ENSG000002	8.80513933	6.667036389	0.75717557	-0.4013
FDFT1	4.402569665	3.333518194	0.75717557	-0.4013
CRX	4.402569665	3.333518194	0.75717557	-0.4013
TTR	4.402569665	3.333518194	0.75717557	-0.4013
FAM182A	4.402569665	3.333518194	0.75717557	-0.4013
USP26	4.402569665	3.333518194	0.75717557	-0.4013
UNC45B	4.402569665	3.333518194	0.75717557	-0.4013
IP6K3	4.402569665	3.333518194	0.75717557	-0.4013
CCDC27	4.402569665	3.333518194	0.75717557	-0.4013
ACSL6	4.402569665	3.333518194	0.75717557	-0.4013
NRTN	4.402569665	3.333518194	0.75717557	-0.4013
GARIN2	4.402569665	3.333518194	0.75717557	-0.4013
TUBAL3	4.402569665	3.333518194	0.75717557	-0.4013
CTAGE10P	4.402569665	3.333518194	0.75717557	-0.4013
GPATCH11P	4.402569665	3.333518194	0.75717557	-0.4013
KEL	4.402569665	3.333518194	0.75717557	-0.4013
KLRC2	4.402569665	3.333518194	0.75717557	-0.4013
TAS2R14	4.402569665	3.333518194	0.75717557	-0.4013
TAS2R13	4.402569665	3.333518194	0.75717557	-0.4013
LINC01588	4.402569665	3.333518194	0.75717557	-0.4013
FRG2B	4.402569665	3.333518194	0.75717557	-0.4013
SOCS5P4	4.402569665	3.333518194	0.75717557	-0.4013
AK3P3	4.402569665	3.333518194	0.75717557	-0.4013
LINC02884	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
PRPF38AP2	4.402569665	3.333518194	0.75717557	-0.4013
C2orf74	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
RPL7AP30	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
WWP1-AS1	4.402569665	3.333518194	0.75717557	-0.4013
TMPO-AS1	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
COILP1	4.402569665	3.333518194	0.75717557	-0.4013
TAT-AS1	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
NBPF19	4.402569665	3.333518194	0.75717557	-0.4013
ENSG000002	4.402569665	3.333518194	0.75717557	-0.4013
TCOF1	515.3222772	293.3496011	1.756683068	0.812854
GGPS1	210.7759395	120.006655	1.756368757	0.812596
PRDM5	493.7467874	281.1267011	1.756314094	0.812551
GEN1	815.7194823	464.4702017	1.756236416	0.812487
HOOK1	677.1384512	385.5769378	1.756169482	0.812432
CEP120	741.0350943	422.2456379	1.75498579	0.811459
GRAMD1C	296.2480724	168.8982552	1.754003155	0.810651
WAPL	2227.254416	1270.070432	1.75364638	0.810358
SCN1A	44.8106328	25.55697282	1.753362306	0.810124
LTO1	235.6707355	134.4519005	1.752825617	0.809682
POGLUT2	95.43005134	54.44746384	1.75269966	0.809579
TM6SF1	151.8582556	86.67147305	1.752113472	0.809096
CENPBD1P	101.2388371	57.78098203	1.752113472	0.809096
YARS1	891.2336968	508.917111	1.751235472	0.808373
TMPRSS13	112.8564085	64.44801842	1.751123018	0.80828
TPI1P1	56.42820427	32.22400921	1.751123018	0.80828
UTP18	739.3754412	422.2456379	1.75105525	0.808225
SFT2D2	633.9874715	362.2423104	1.750175099	0.807499
NUS1	136.0915515	77.7820912	1.749651486	0.807068
ARRB2	419.8922259	240.01331	1.749453919	0.806905
SLC39A10	1549.286138	885.604667	1.749410539	0.806869
BTBD1	1277.103035	730.0404846	1.749359196	0.806827
LIN7C	732.736829	418.9121198	1.74914211	0.806648
SEC61A2	638.9664307	365.5758286	1.747835553	0.805569
ENSG000002	91.28091867	52.22511838	1.747835553	0.805569
RBM15	2236.382507	1280.070987	1.747076944	0.804943
SENP6	1566.712495	897.827567	1.745003776	0.80323
STX17	426.5308382	244.4580009	1.74480212	0.803063
C15orf39	375.9114196	215.5675099	1.743822248	0.802253
NUFIP2	4062.830707	2330.129218	1.743607469	0.802075
DPYSL2	2425.582957	1391.18826	1.743533228	0.802014
STK35	486.2783486	278.9043556	1.743530851	0.802012
PSMD6	672.159492	385.5769378	1.743256471	0.801785
CRYBG2	69.7054288	40.00221833	1.742539082	0.801191
ENSG000002	17.4263572	10.00055458	1.742539082	0.801191
OR6J1	17.4263572	10.00055458	1.742539082	0.801191
CCNJL	98.74935747	56.6698093	1.742539082	0.801191
GPR143	58.08785734	33.33518194	1.742539082	0.801191
RNA5-8SN4	29.04392867	16.66759097	1.742539082	0.801191
PROCR	23.23514293	13.33407278	1.742539082	0.801191
SCEL	11.61757147	6.667036389	1.742539082	0.801191
C18orf32	11.61757147	6.667036389	1.742539082	0.801191
ENSG000002	11.61757147	6.667036389	1.742539082	0.801191
EEF1B2	40.66150013	23.33462736	1.742539082	0.801191
HINFP	121.9845004	70.00388208	1.742539082	0.801191
TRIM46	46.47028587	26.66814555	1.742539082	0.801191
RPL13AP25	5.808785734	3.333518194	1.742539082	0.801191
C1RL	5.808785734	3.333518194	1.742539082	0.801191
DMRTA2	5.808785734	3.333518194	1.742539082	0.801191
ARHGAP27	5.808785734	3.333518194	1.742539082	0.801191
CLEC1B	5.808785734	3.333518194	1.742539082	0.801191
PRRT2	5.808785734	3.333518194	1.742539082	0.801191
CA5A	5.808785734	3.333518194	1.742539082	0.801191
SLC17A8	5.808785734	3.333518194	1.742539082	0.801191
LINC02908	5.808785734	3.333518194	1.742539082	0.801191
NKAIN3	5.808785734	3.333518194	1.742539082	0.801191
SDHAP3	5.808785734	3.333518194	1.742539082	0.801191
TCAF1	5.808785734	3.333518194	1.742539082	0.801191
TECRL	5.808785734	3.333518194	1.742539082	0.801191
SKOR2	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ZNF691-DT	5.808785734	3.333518194	1.742539082	0.801191
LINC00960	5.808785734	3.333518194	1.742539082	0.801191
PELP1-DT	5.808785734	3.333518194	1.742539082	0.801191
RRS1-DT	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ZNF45-AS1	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
ENSG000002	5.808785734	3.333518194	1.742539082	0.801191
CCDC144BP	5.808785734	3.333518194	1.742539082	0.801191
PRPF18	663.8612267	381.1322469	1.741813326	0.80059
SREK1	899.5319622	516.6953201	1.740933055	0.799861
GSE1	1326.892627	762.2644938	1.740724693	0.799688
MED27	415.7430932	238.9021373	1.740223415	0.799273
RPRD1A	1154.288708	663.3701207	1.740037231	0.799118
RPS4X	5707.546896	3281.293076	1.739420029	0.798606
LRRC58	987.4935747	567.8092658	1.739129025	0.798365
RLF	2052.161017	1180.065441	1.739023063	0.798277
C1orf52	195.0092353	112.2284459	1.737609693	0.797104
PRR36	4635.411015	2667.925728	1.737458793	0.796979
ATP6V0D1	1223.994137	704.4835117	1.737434754	0.796959
CCDC25	243.1391743	140.0077642	1.736612078	0.796276
STYK1	125.3038065	72.22622754	1.734879569	0.794836
ZNF562	1247.22928	718.9287572	1.734844054	0.794806
SYAP1	674.6489716	388.910456	1.734715437	0.794699
NOL9	711.1613391	410.0227379	1.734443662	0.794473
ATF3	263.8848376	152.2306642	1.733453894	0.793649
ECHDC1	624.0295531	360.019965	1.733319298	0.793537
PITPNB	487.1081751	281.1267011	1.732699787	0.793022
TFAM	475.4906036	274.4596647	1.732460776	0.792823
CLN6	180.9021843	104.4502368	1.731946139	0.792394
CEP57L1	180.9021843	104.4502368	1.731946139	0.792394
LAMTOR5	904.5109214	522.2511838	1.731946139	0.792394
NIN	3124.296898	1804.544516	1.731349308	0.791897
ZNF12	550.1749916	317.7954012	1.731223893	0.791792
FTH1P7	42.3211532	24.44580009	1.731223893	0.791792
PRDX4	1390.78927	803.3778848	1.731176942	0.791753
ECI2	1077.11484	622.2567296	1.730981425	0.79159
AP5B1	172.8008594	229.8619497	1.330213001	0.411657
MED11	97.95717505	130.2827657	1.329997171	0.411423
EGLN1	200.3169198	266.3743172	1.329764443	0.411171
CCDC7	302.6766645	402.4658687	1.329689123	0.411089
EDEM2	283.9657434	377.5710727	1.329635991	0.411031
DSG2	1668.573903	2218.126324	1.329354558	0.410726
VAPB	897.0235693	1192.460728	1.329352727	0.410724
EFNB1	125.4732355	166.7951332	1.329328383	0.410698
ITM2C	1412.12422	1877.067618	1.329251061	0.410614
BBS10	845.2933757	1123.585126	1.329225046	0.410585
ENSG000002	64.93790256	86.30195947	1.3289921	0.410333
ATP1B1	1825.965769	2426.412784	1.328838046	0.410165
TM2D2	287.2676707	381.7202053	1.328796256	0.41012
CNTROB	444.6595362	590.8364918	1.328739055	0.410058
PSMA3-AS1	134.2783748	178.4127047	1.328677868	0.409991
SMAP1	384.1242033	510.343318	1.32858933	0.409895
CCN4	46.22698148	61.40716347	1.328383587	0.409672
KPNA6	582.2398382	773.3983291	1.328315719	0.409598
MIER3	359.9100701	477.9800832	1.328054208	0.409314
PARD6B	198.1156349	263.0550111	1.327785216	0.409022
URI1	1463.854414	1943.453741	1.32762775	0.408851
SLC35A5	399.5331971	530.2591548	1.327196735	0.408382
MOSPD2	302.6766645	401.6360421	1.326947496	0.408111
SLC27A5	27.51606041	36.51236747	1.326947496	0.408111
NFKBID	27.51606041	36.51236747	1.326947496	0.408111
CCDC180	27.51606041	36.51236747	1.326947496	0.408111
NACC1	467.7730269	620.710247	1.326947496	0.408111
ZDHHC6	420.445403	557.6434304	1.326315917	0.407424
SEPSECS	155.1905807	205.7969803	1.326091953	0.407181
RBM23	660.3854498	875.4669927	1.325690917	0.406744
EMC2	963.0621143	1276.273208	1.325224188	0.406236
GAS1	36.32119974	48.12993894	1.325119745	0.406123
ZNF549	294.9721676	390.8482972	1.325034495	0.40603
FMNL2	748.4368431	991.6427074	1.324951753	0.40594
MOSPD1	77.04496914	102.0686636	1.324793361	0.405767
TMEM203	130.9764475	173.4337455	1.324159792	0.405077
ITGAE	135.3790172	179.2425312	1.324005262	0.404909
ZNF77	135.3790172	179.2425312	1.324005262	0.404909
RAB15	90.25267814	119.4950208	1.324005262	0.404909
SERPINB8	45.12633907	59.7475104	1.324005262	0.404909
PPP1R2	414.9421909	549.3451651	1.323907708	0.404803
RPGR	748.4368431	990.8128808	1.323843007	0.404732
OVOL2	94.6552478	125.3038065	1.323791437	0.404676
ABRAXAS2	292.7708827	387.5289911	1.323659605	0.404532
ZNF570	198.1156349	262.2251845	1.323596619	0.404464
BLTP3B	2108.83087	2790.706632	1.323343029	0.404187
COL8A2	53.9314784	71.36508187	1.323254693	0.404091
ASPSCR1	215.7259136	285.4603275	1.323254693	0.404091
CSNK2A2	444.6595362	588.3470122	1.323140435	0.403966
RNF6	911.3319207	1205.737953	1.32305028	0.403868
BLTP2	4316.719557	5710.036376	1.322772142	0.403565
SPTLC2	1036.805156	1370.873433	1.322209313	0.402951
ME2	674.6938012	892.0635234	1.322175366	0.402914
ABI2	1473.760195	1948.4327	1.322082593	0.402812
FNTA	330.1927249	436.4887566	1.32192118	0.402636
ATAD3A	173.9015018	229.8619497	1.321793932	0.402497
CCDC51	93.55460539	123.6441535	1.321625514	0.402313
PCBP2	855.1991575	1130.223738	1.321591267	0.402276
ALKBH2	102.3597447	135.2617249	1.321434762	0.402105
RNF144A	311.4818038	411.5939605	1.321406116	0.402074
DDB1	2829.751652	3738.368533	1.321094213	0.401733
PIFO	163.99572	216.5847252	1.320673034	0.401273
MGMT	168.3982897	222.3935109	1.320639962	0.401237
BUD13	468.8736693	619.0505939	1.320292937	0.400858
AMPD1	8.80513933	11.61757147	1.319408022	0.399891
SPOCD1	8.80513933	11.61757147	1.319408022	0.399891
TMEM37	8.80513933	11.61757147	1.319408022	0.399891
IGDCC3	8.80513933	11.61757147	1.319408022	0.399891
FOXB2	8.80513933	11.61757147	1.319408022	0.399891
RPS18P5	8.80513933	11.61757147	1.319408022	0.399891
ENSG000002	8.80513933	11.61757147	1.319408022	0.399891
ENSG000002	8.80513933	11.61757147	1.319408022	0.399891
ENSG000002	8.80513933	11.61757147	1.319408022	0.399891
ENSG000002	8.80513933	11.61757147	1.319408022	0.399891
ENSG000002	8.80513933	11.61757147	1.319408022	0.399891
CXCL8	44.02569665	58.08785734	1.319408022	0.399891
CFAP45	35.22055732	46.47028587	1.319408022	0.399891
PXN-AS1	30.81798766	40.66150013	1.319408022	0.399891
MAP4K1	4.402569665	5.808785734	1.319408022	0.399891
PRKAG3	4.402569665	5.808785734	1.319408022	0.399891
CHRNB4	4.402569665	5.808785734	1.319408022	0.399891
TNFRSF8	4.402569665	5.808785734	1.319408022	0.399891
SSMEM1	4.402569665	5.808785734	1.319408022	0.399891
CNTN2	4.402569665	5.808785734	1.319408022	0.399891
AADACL3	4.402569665	5.808785734	1.319408022	0.399891
C9orf163	4.402569665	5.808785734	1.319408022	0.399891
PRAMEF15	4.402569665	5.808785734	1.319408022	0.399891
FAM83A-AS	4.402569665	5.808785734	1.319408022	0.399891
TAX1BP3	4.402569665	5.808785734	1.319408022	0.399891
LYPLAL1-DT	4.402569665	5.808785734	1.319408022	0.399891
HSPE1P28	4.402569665	5.808785734	1.319408022	0.399891
SP2-AS1	4.402569665	5.808785734	1.319408022	0.399891
LINC01814	4.402569665	5.808785734	1.319408022	0.399891
CLIC4P1	4.402569665	5.808785734	1.319408022	0.399891
RPL7AP11	4.402569665	5.808785734	1.319408022	0.399891
POU5F1P6	4.402569665	5.808785734	1.319408022	0.399891
AFG3L2P1	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
LINC02207	4.402569665	5.808785734	1.319408022	0.399891

ELP4	202.5182046	153.3418369	0.75717557	-0.4013
TBXA2R	26.41541799	20.00110917	0.75717557	-0.4013
RGPD4	26.41541799	20.00110917	0.75717557	-0.4013
CCL20	13.207709	10.00055458	0.75717557	-0.4013
TMC2	13.207709	10.00055458	0.75717557	-0.4013
KLK5	13.207709	10.00055458	0.75717557	-0.4013
TEX56P	13.207709	10.00055458	0.75717557	-0.4013
CHMP4BP1	13.207709	10.00055458	0.75717557	-0.4013
RNA5-8SN3	13.207709	10.00055458	0.75717557	-0.4013
ZMIZ2	1973.451852	1493.416151	0.756753274	-0.402105
SERINC3	2325.657426	1758.986434	0.75633944	-0.402894
VPS26B	280.6638162	212.2339917	0.756185798	-0.403187
CACNB2	543.7173537	411.1339106	0.75615374	-0.403249
THRB	723.1220675	546.6969839	0.756023095	-0.403498
STXBP4	464.4710997	351.1305831	0.7559794	-0.403581
XYLB	214.6252712	162.2312188	0.755881252	-0.403768
MOB3A	385.2248457	291.1272556	0.755733331	-0.404051
CLCC1	1338.381178	1011.167186	0.755515097	-0.404468
SUDS3	620.7623228	468.9148927	0.755385557	-0.404715
RAD1	310.3811614	234.4574463	0.755385557	-0.404715
TLK1	3504.445453	2646.813446	0.755273119	-0.40493
OTUD4	1302.059978	983.3878673	0.755255429	-0.404963
PACRGL	288.3683131	217.7898554	0.755248914	-0.404976
FAM98A	716.518213	541.1411202	0.755237076	-0.404999
RMC1	279.5631737	211.122819	0.755188232	-0.405092
ZNF319	139.7815869	105.5614095	0.755188232	-0.405092
AHSA2P	659.2848074	497.8053837	0.755068793	-0.40532
CDC73	1571.71737	1186.732477	0.75505463	-0.405347
HNRNPC	5454.783815	4118.006143	0.754934803	-0.405576
GAS6	780.3554732	588.9215477	0.75468369	-0.406056
GALC	1216.20987	917.8286762	0.754663072	-0.406095
TBC1D20	740.7323462	558.9198839	0.754550394	-0.406311
CASC3	2281.631729	1721.206561	0.754375274	-0.406646
ZNF507	961.9614718	725.5957936	0.754287791	-0.406813
ATG10	86.95075089	65.55919115	0.753980736	-0.4074
RPL34	582.2398382	438.9132289	0.753835791	-0.407678
HNRNPU	10820.41559	8156.007849	0.753761053	-0.407821
OGFRL1	243.241974	183.3435007	0.753749436	-0.407843
CSNK1E	160.6937928	121.1178277	0.753718147	-0.407903
PPP1R15A	551.4218506	415.5786016	0.753649137	-0.408035
GABPA	698.9079343	526.6958747	0.753598362	-0.408132
CDYL2	386.3254881	291.1272556	0.753580244	-0.408167
SGCE	377.5203488	284.4602192	0.753496388	-0.408327
SPTLC1	1617.944352	1218.956486	0.753398277	-0.408515
S1PR3	290.5695979	218.9010281	0.753351451	-0.408605
NINJ1	424.8479727	320.0177467	0.75325238	-0.408795
ADRB2	281.7644586	212.2339917	0.753231947	-0.408834
ENSA	489.7858753	368.9093468	0.753205361	-0.408885
NNMT	138.6809445	104.4502368	0.75316935	-0.408954
NUP58	758.3426248	571.142784	0.753146092	-0.408998
DUSP12	272.9593192	205.5669553	0.753104733	-0.409078
EIF1AX	203.618847	153.3418369	0.753082729	-0.40912
ZNF69	203.618847	153.3418369	0.753082729	-0.40912
NBPF10	467.7730269	352.2417559	0.753018527	-0.409243
SRPRB	523.9057902	394.4663197	0.75293369	-0.409405
RNU4-2	64.93790256	48.89160018	0.752897742	-0.409474
TRA2B	1744.51823	1313.406169	0.75287615	-0.409516
CDIN1	125.4732355	94.44968217	0.752747642	-0.409762
AVIL	181.6059987	136.674246	0.752586627	-0.41007
DNAJC30	181.6059987	136.674246	0.752586627	-0.41007
CCDC7	302.6766645	227.7904099	0.752586627	-0.41007
JRKL	423.7473303	318.9065739	0.752586627	-0.41007
ARL5B	224.5310529	168.8982552	0.75222671	-0.410761
SLC40A1	1368.098523	1028.945949	0.752099305	-0.411005
FNDC3B	3724.573937	2800.155283	0.75180553	-0.411569
PPIP5K1	206.9207743	155.5641824	0.75180553	-0.411569
KRTCAP3	51.73019357	38.8910456	0.75180553	-0.411569
ZNF677	189.3104956	142.2301096	0.751305992	-0.412527
DMGDH	94.6552478	71.11505481	0.751305992	-0.412527
TLCD3A	94.6552478	71.11505481	0.751305992	-0.412527
SSH2	1337.280536	1004.500149	0.751151402	-0.412824
SERTAD2	275.1606041	206.678128	0.751118165	-0.412888
RNPC3	1486.967904	1116.728595	0.751010558	-0.413095
CDK5RAP2	2681.164926	2013.444989	0.750959021	-0.413194
PCDH18	1300.959336	976.7208309	0.750769685	-0.413558
FAM78A	81.44753881	61.11450023	0.750354168	-0.414356
C5orf63	81.44753881	61.11450023	0.750354168	-0.414356
CRLF3	312.5824462	234.4574463	0.75006594	-0.414911
ERGIC1	4832.92085	3624.64545	0.74999065	-0.415055
EGF	115.5674537	86.67147305	0.749964374	-0.415106
ZNF829	38.52248457	28.89049102	0.749964374	-0.415106
ADA	38.52248457	28.89049102	0.749964374	-0.415106
TTLL7	689.0021526	516.6953201	0.749918296	-0.415195
RPS6KA3	1339.481821	1004.500149	0.749916971	-0.415197
KIAA0232	1646.561055	1234.512905	0.74975228	-0.415514
TEAD1	567.9314868	425.5791561	0.749349466	-0.416289
GZF1	315.8843735	236.6797918	0.749260842	-0.41646
HDAC2	1007.087811	754.4862846	0.749176265	-0.416623
GBF1	2056.000034	1540.085406	0.749068765	-0.41683
ESPN	34.11991491	25.55697282	0.749033897	-0.416897
CSF2RB	136.4796596	102.2278913	0.749033897	-0.416897
BCCIP	668.0899467	500.0277291	0.748443726	-0.418034
CFAP20	344.5010763	257.7920737	0.748305568	-0.418301
PODN	632.8693894	473.3595836	0.74795778	-0.418971
NDUFAF5	59.43469048	44.44690926	0.747827723	-0.419222
KLF3	1288.852269	963.3867582	0.74747648	-0.4199
SLC7A6OS	114.4668113	85.56030032	0.747468191	-0.419916
HSPA4	1479.263408	1105.616868	0.747410409	-0.420027
ALDH1B1	224.5310529	167.7870824	0.74727785	-0.420283
ITGA7	364.3126398	272.2373192	0.747262899	-0.420312
NAP1L1	3299.725964	2465.692291	0.747241534	-0.420353
RPN2	1282.911821	741.1522119	1.730969428	0.79158
PSMD14	1309.46627	756.7086301	1.730476193	0.791169
YY1	1370.873433	792.2661575	1.730319313	0.791038
RGS3	601.6242367	347.7970649	1.729814013	0.790617
USP14	1479.580709	855.6030032	1.729284146	0.790175
SLC2A13	274.6725825	158.8977006	1.728612696	0.789615
FBLN7	341.8885317	197.7887462	1.728554017	0.789566
MIER3	477.9800832	276.6820101	1.727543048	0.788722
ANKRD18C	30.70358173	17.7787637	1.726980697	0.788252
DNAJC1	736.8859616	426.6903289	1.726980697	0.788252
TMEM161B	239.8198681	138.8965914	1.726607296	0.78794
RNGTT	473.8309506	274.4596647	1.726413792	0.787778
HNRNPLP2	141.9003372	82.22678213	1.725719207	0.787198
PTTG1IP	1104.499116	640.0354933	1.725684165	0.787168
DAAM1	1497.007066	867.8259033	1.725008508	0.786603
GTF3C3	1305.317137	756.7086301	1.724993062	0.786591
TMSB10	4263.648728	2472.359327	1.724526318	0.7862
CNOT1	6538.203256	3792.432532	1.724013071	0.785771
NDUFB6	180.0723577	104.4502368	1.724001432	0.785761
INTS8	3489.420573	2024.556717	1.723547947	0.785381
DIAPH1	1699.48474	986.7213855	1.722355231	0.784383
FYN	907.000401	526.6958747	1.722057158	0.784133
RGS1	68.87560227	40.00221833	1.721794569	0.783913
UTP20	2446.32862	1421.189924	1.721324209	0.783519
ZNF678	376.7412461	218.9010281	1.721057454	0.783295
FRAT2	43.98080627	25.55697282	1.720892634	0.783157
HK1	2252.149212	1308.961478	1.720561873	0.78288
KIFBP	877.1266458	510.0282837	1.719760793	0.782208
HOMER1	271.3532764	157.7865279	1.719749335	0.782198
KIF27	896.212656	521.140011	1.719715695	0.78217
ZNF407	2112.738354	1228.957041	1.719131169	0.78168
RSPRY1	620.710247	361.1311377	1.718794593	0.781397
WWOX	368.4429808	214.4563372	1.718032611	0.780757
DEPDC4	95.43005134	55.55863657	1.717645666	0.780432
PLA2G12A	76.34404107	44.44690926	1.717645666	0.780432
ENSG000002	38.17202053	22.22345463	1.717645666	0.780432
C1orf21	318.6533888	185.5658462	1.717198479	0.780057
NFATC3	1390.78927	810.0449212	1.716928572	0.77983
ITGA4	165.9653067	96.67202764	1.716787273	0.779711
GTF2H5	345.2078379	201.1222644	1.716407872	0.779392
IMPA1	1557.584403	907.8281216	1.715726101	0.778819
KCNK3	173.4337455	101.1167186	1.71518368	0.778363
RPL21	1208.227433	704.4835117	1.715054238	0.778254
CDH24	310.3551235	181.1211552	1.713522217	0.776965
WDR17	744.3544004	434.468538	1.713252711	0.776738
MREG	32.3632348	18.88993643	1.713252711	0.776738
ATCAY	32.3632348	18.88993643	1.713252711	0.776738
DENND2A	156.0073883	91.11616398	1.712181258	0.775835
DENND6A	591.6663183	345.5747195	1.71212269	0.775786
LSM14B	1335.190892	780.0432575	1.711688268	0.77542
HIP1	658.052441	384.4657651	1.711602178	0.775347
ERP44	2091.992691	1222.290005	1.711535464	0.775291
DDX3P3	45.64045934	26.66814555	1.711422313	0.775196
SMOC2	574.2399611	335.5741649	1.711216241	0.775022
ABHD5	437.3185831	255.5697282	1.711151732	0.774968
ATP1A1-AS	104.5581432	61.11450023	1.710856553	0.774719
EFL1	752.6526658	440.0244016	1.71047938	0.774401
TXNL4B	58.91768387	34.44635467	1.710418546	0.774349
BPNT1	531.9188079	311.1283648	1.709644211	0.773696
TCHP	210.7759395	123.3401732	1.708899331	0.773067
NIPSNAP2	560.13291	327.7959558	1.708785298	0.772971
FSIP2	461.3835526	270.0149737	1.708733209	0.772927
CEP350	4034.616605	2361.242054	1.708684037	0.772886
ZUP1	250.6076131	146.6748005	1.708593515	0.772809
TUBE1	165.1354801	96.67202764	1.708203336	0.77248
REV1	2502.756825	1465.636833	1.707624132	0.77199
FBXW11	2259.61765	1323.406723	1.707424944	0.771822
POLN	13.27722453	7.77820912	1.70697706	0.771444
RGS8	13.27722453	7.77820912	1.70697706	0.771444
TBX10	13.27722453	7.77820912	1.70697706	0.771444
HES7	13.27722453	7.77820912	1.70697706	0.771444
LINC01376	13.27722453	7.77820912	1.70697706	0.771444
ALYREF	638.9664307	374.4652105	1.706343908	0.770908
DHX40	1484.559668	870.0482487	1.706295795	0.770868
VHL	1862.960567	1092.282795	1.705566156	0.770251
ATG4A	187.5407965	110.0061004	1.704821786	0.769621
ADGRL3	221.5636844	130.0072096	1.70424152	0.76913
KDM3A	2103.610262	1234.512905	1.704000221	0.768926
FBLL1	134.4318984	78.89326393	1.703971818	0.768901
SIRT1	806.5913904	473.3595836	1.703971818	0.768901
CAB39	658.8822675	386.6881105	1.703911368	0.76885
HMBS	60.57733694	35.55752741	1.70364312	0.768623
CMPK1	1154.288708	677.8153662	1.70295447	0.76804
CPSF4	141.9003372	83.33795486	1.702709617	0.767832
POT1	554.3241243	325.5736103	1.702607665	0.767746
PPP2R2A	637.3067776	374.4652105	1.701911846	0.767156
DNAJC10	2058.799629	1210.067105	1.701392941	0.766716
NUP160	251.4374396	147.7859733	1.701362004	0.76669
ZNF830	204.1373272	120.006655	1.701050056	0.766426
ZNF214	190.8601027	112.2284459	1.700639274	0.766077
MRPS18C	156.8372148	92.22733671	1.700550188	0.766002
CLEC14A	122.8143269	72.22622754	1.700411763	0.765884
EXTL2	355.1657563	208.9004735	1.700167311	0.765677
ZNF263	472.1712975	277.7931829	1.699722407	0.765299
BLCAP	432.3396239	254.4585555	1.699057133	0.764734
ZMYND11	2667.892305	1571.198242	1.697998529	0.763835
SRSF12	331.9306133	195.5664007	1.697278326	0.763223
BRWD1	6241.125357	3677.981741	1.696888619	0.762892
LRRN2	478.8099098	282.2378738	1.696476463	0.762541
MUC19	458.0642464	270.0149737	1.696440164	0.762511
PKIG	152.6880821	90.00499125	1.696440164	0.762511
CERNA1	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
MIR4296	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
H3-3A-DT	4.402569665	5.808785734	1.319408022	0.399891
TBC1D8-AS1	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
OR13C5	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
CCDC15-DT	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
ENSG000002	4.402569665	5.808785734	1.319408022	0.399891
TMEM208	39.62312699	52.2790716	1.319408022	0.399891
ZBED10P	26.41541799	34.8527144	1.319408022	0.399891
CYSLTR2	13.207709	17.4263572	1.319408022	0.399891
TRAP1	963.0621143	1270.464423	1.319192608	0.399655
METAP2	1173.284816	1547.626485	1.319054388	0.399504
KPNA1	970.7666112	1280.422341	1.318980614	0.399423
WDR41	465.5717421	614.0716347	1.318962427	0.399403
CLDN12	320.2869431	422.3817055	1.318760301	0.399182
ELAC2	735.2291341	969.237391	1.318279358	0.398656
XIAP	857.4004423	1130.223738	1.318198222	0.398567
RASGEF1B	157.3918655	207.4566333	1.318089932	0.398449
KLC1	366.5139246	482.9590424	1.317709942	0.398033
ZFP3	366.5139246	482.9590424	1.317709942	0.398033
ARSK	78.14561156	102.8984901	1.316753277	0.396985
COX10	221.2291257	291.2691132	1.316594785	0.396811
PARP10	268.5567496	353.5061032	1.316318073	0.396508
MRS2	271.8586768	357.6552359	1.315592498	0.395713
NOVA1	159.5931504	209.9461129	1.315508294	0.39562
PIK3R3	99.05781747	130.2827657	1.315219425	0.395304
CLN6	137.580302	180.9021843	1.314884337	0.394936
CSDE1	12148.89099	15970.84146	1.31459254	0.394616
PEDS1	128.7751627	169.2846128	1.314575026	0.394596
TRERF1	544.8179961	716.1402983	1.314457862	0.394468
SPSB2	38.52248457	50.61941854	1.314022683	0.39399
ITPR2	5458.085742	7171.360901	1.31389671	0.393852
TLE5	898.1242117	1180.01333	1.313864291	0.393816
RBFA	140.8822293	185.0513169	1.313517808	0.393436
EEF1AKMT2	34.11991491	44.8106328	1.313327801	0.393227
PCAT1	34.11991491	44.8106328	1.313327801	0.393227
ENSG000002	34.11991491	44.8106328	1.313327801	0.393227
ARHGEF16	97.95717505	128.6231127	1.313054532	0.392927
TAF9B	613.0578259	804.9317374	1.312978488	0.392843
ZBTB43	344.5010763	452.2554607	1.312783883	0.392629
RABGGTB	586.6424079	770.079023	1.312688978	0.392525
RNF115	514.0000084	674.6489716	1.312546616	0.392369
NUDT16	271.8586768	356.8254093	1.31254008	0.392361
BCL2A1	29.71734524	39.00184707	1.312427027	0.392237
ZNF215	29.71734524	39.00184707	1.312427027	0.392237
ZNF497	29.71734524	39.00184707	1.312427027	0.392237
ALDH16A1	89.15203572	117.0055412	1.312427027	0.392237
MARCHF5	292.7708827	384.2096849	1.31232205	0.392122
ZNF672	233.3361923	306.2059908	1.31229531	0.392092
SOX12	359.9100701	472.1712975	1.311914661	0.391674
BEND3	165.0963624	216.5847252	1.311868548	0.391623
FASTKD5	575.6359837	755.1421454	1.311839716	0.391591
UBFD1	270.7580344	355.1657563	1.311745954	0.391488
GGPS1	160.6937928	210.7759395	1.311661987	0.391396
POLR3C	460.06853	603.2838898	1.311291363	0.390988
RGP1	637.271959	835.6353191	1.311269557	0.390964
MARCHF7	2008.67241	2633.869417	1.311248865	0.390942
ENSG000002	75.94432672	99.579184	1.311212941	0.390902
PCYT2	143.0835141	187.5407965	1.310708628	0.390347
C9orf43	46.22698148	60.57733694	1.310432457	0.390043
UQCRHL	46.22698148	60.57733694	1.310432457	0.390043
MAP2K2	663.687377	869.658207	1.310343148	0.389945
POLR3A	919.0364176	1204.0783	1.310152979	0.389735
PTBP2	1069.824429	1401.577015	1.310100029	0.389677
EIF5B	1971.250568	2582.420172	1.310041562	0.389613
STK16	88.0513933	115.3458881	1.309983679	0.389549
NLE1	108.9635992	142.7301637	1.309888484	0.389444
CPNE1	677.9957284	887.9143907	1.309616497	0.389144
HRH2	41.82441182	54.7685512	1.309487661	0.389002
RNF112	20.91220591	27.3842756	1.309487661	0.389002
KANK3	20.91220591	27.3842756	1.309487661	0.389002
MTA3	1149.070683	1504.475505	1.309297616	0.388793
FAM174C	100.1584599	131.1125923	1.309051601	0.388522
AK9	228.9336226	299.5673785	1.30853378	0.387951
ARMC5	91.35332055	119.4950208	1.308053392	0.387421
C6orf62	1207.404731	1579.159893	1.307896062	0.387248
SYT7	1547.503237	2023.117088	1.307342718	0.386637
COL5A2	2062.603888	2696.106407	1.307137266	0.386411
TACC2	3154.441165	4122.578218	1.306912382	0.386162
TAF1A	231.1349074	302.0568581	1.306842231	0.386085
CACNA1S	16.50963624	21.57548987	1.306842231	0.386085
TMEM61	16.50963624	21.57548987	1.306842231	0.386085
DISP1	449.0621058	586.6873591	1.306472649	0.385677
OAZ2	255.3490406	333.5902664	1.306408928	0.385607
APOOL	383.0235609	500.3853996	1.306408928	0.385607
SPPL3	679.0963709	887.0845642	1.306271985	0.385455
MLEC	1308.663833	1708.612832	1.3056163	0.384731
POU2F1	1016.993593	1327.722453	1.305536695	0.384643
NDUFV3	418.2441182	546.025859	1.305519516	0.384624
RPL24P4	183.8072835	239.8198681	1.304735392	0.383757
ZNF28	983.9743202	1283.741647	1.304649543	0.383662
RPL12	1208.505373	1576.670413	1.304644935	0.383657
SNAPC2	69.34047223	90.45109214	1.304448747	0.38344

AP1S1	165.0963624	123.3401732	0.747079895	-0.420666
CCNY	1007.087811	752.2639392	0.74696956	-0.420879
CRACD	135.3790172	101.1167186	0.746915738	-0.420983
GGPS1	160.6937928	120.006655	0.746803302	-0.4212
DDIT3	80.34689639	60.0033275	0.746803302	-0.4212
FBXW7	849.6959454	634.4796297	0.746713731	-0.421373
TMEM248	1343.88439	1003.388976	0.746633404	-0.421528
KIF1C	2457.734516	1834.54618	0.746437896	-0.421906
SIGLEC7	25.31477557	18.88993643	0.746202011	-0.422362
TMEM158	25.31477557	18.88993643	0.746202011	-0.422362
ENSG000002	25.31477557	18.88993643	0.746202011	-0.422362
TOPORS	1496.873686	1116.728595	0.746040635	-0.422674
BRMS1L	223.4304105	166.6759097	0.745985783	-0.42278
NPIPB11	320.2869431	238.9021373	0.745900332	-0.422945
RAI14	1032.402586	770.0427029	0.745874442	-0.422995
ROCK2	3251.297698	2424.5789	0.745726515	-0.423281
CADPS2	1229.417579	916.7175034	0.745651859	-0.423426
TRIT1	745.1349158	555.5863657	0.745618483	-0.42349
DESI2	214.6252712	160.0088733	0.745526715	-0.423668
IPO9	1774.235575	1322.29555	0.745276202	-0.424153
ERCC6L2	1282.248415	955.608549	0.745260074	-0.424184
CCNG1	559.1263475	416.6897743	0.745251545	-0.424201
TRABD2B	92.45396297	68.89270935	0.74515691	-0.424384
TINF2	46.22698148	34.44635467	0.74515691	-0.424384
XRCC2	46.22698148	34.44635467	0.74515691	-0.424384
ZFP36L2	3323.940097	2476.804018	0.745140991	-0.424415
VWA8	1197.498949	892.2717033	0.745112724	-0.424469
AHCTF1P1	386.3254881	287.7937374	0.744951463	-0.424782
NUDT5	453.4646755	337.7965104	0.744923538	-0.424836
MAP3K1	919.0364176	684.4824026	0.744782676	-0.425109
RCHY1	331.2933673	246.6803464	0.744597902	-0.425467
UMAD1	88.0513933	65.55919115	0.744555977	-0.425548
AQR	1538.698098	1145.619086	0.744537923	-0.425583
SAP130	1349.387602	1004.500149	0.744411871	-0.425827
EGR2	364.3126398	271.1261465	0.744212846	-0.426213
SNX2	719.8201403	535.5852566	0.744054281	-0.42652
RLF	1586.025722	1180.065441	0.744039283	-0.426549
C9orf40	20.91220591	15.55641824	0.743891788	-0.426835
TOMM22	209.1220591	155.5641824	0.743891788	-0.426835
STEAP4	711.0150009	528.9182202	0.743891788	-0.426835
TRIM36	564.6295596	420.0232925	0.743891788	-0.426835
SNX18	392.9293426	292.2384284	0.74374295	-0.427124
CCT2	960.8608294	714.4840663	0.743587463	-0.427426
NSUN3	300.4753796	223.345719	0.743307885	-0.427968
PDLIM1	538.2141416	400.0221833	0.743239823	-0.4281
UBXN4	1342.783748	997.8331128	0.743107827	-0.428357
SECISBP2	1483.665977	1102.28335	0.742945762	-0.428671
SPOP	770.4496914	572.2539567	0.742753178	-0.429045
ARHGAP18	478.7794511	355.5752741	0.742670291	-0.429206
ZCWPW1	149.6873686	111.1172731	0.74232899	-0.429869
CA12	37.42184215	27.77931829	0.74232899	-0.429869
CASP6	315.8843735	234.4574463	0.742225529	-0.43007
TLE3	2284.933656	1695.649588	0.742100141	-0.430314
MTUS1	3027.867287	2246.791263	0.742037563	-0.430436
GBE1	494.1884449	366.6870014	0.741998331	-0.430512
SLC25A28	269.657392	200.0110917	0.741723007	-0.431048
CD47	1322.972184	981.1655219	0.741637302	-0.431214
ALKBH3	373.1177791	276.6820101	0.741540676	-0.431402
RNF114	708.8137161	525.584702	0.741499057	-0.431483
AFF4	4138.415485	3067.947912	0.741333953	-0.431805
PAN2	857.4004423	635.5908024	0.74129983	-0.431871
MED15	811.1734608	601.1444477	0.741080024	-0.432299
POLR2F	202.5182046	150.0083187	0.740715231	-0.433009
LIN7C	565.730202	418.9121198	0.740480389	-0.433467
FBXO31	198.1156349	146.6748005	0.740349446	-0.433722
TXLNB	49.52890873	36.66870014	0.740349446	-0.433722
ATP6AP1L	49.52890873	36.66870014	0.740349446	-0.433722
AMPD3	363.2119974	268.903801	0.740349446	-0.433722
ENSG000002	33.01927249	24.44580009	0.740349446	-0.433722
FASLG	16.50963624	12.22290005	0.740349446	-0.433722
NGF	16.50963624	12.22290005	0.740349446	-0.433722
NPIPA1	16.50963624	12.22290005	0.740349446	-0.433722
ARRDC1-AS	16.50963624	12.22290005	0.740349446	-0.433722
SMC5-DT	16.50963624	12.22290005	0.740349446	-0.433722
CYP1B1	1559.610304	1154.508468	0.74025445	-0.433907
ZNF207	1756.625296	1300.072096	0.740096421	-0.434215
SMC6	1063.220574	786.7102939	0.739931406	-0.434537
ANKRD11	3982.124262	2944.607738	0.739456517	-0.435463
FAM168B	407.237694	301.1278102	0.739439926	-0.435495
HIC2	123.2719506	91.11616398	0.73914758	-0.436066
ZNF614	381.9229185	282.2378738	0.738991718	-0.43637
SP4	517.3019357	382.2434196	0.738917435	-0.436515
TIMM8A	45.12633907	33.33518194	0.738707873	-0.436924
WNK4	1078.629568	796.7108484	0.738632495	-0.437071
POU2F1	1016.993593	751.1527665	0.738601277	-0.437132
HSPA8	9745.087954	7197.065782	0.738532665	-0.437266
SLC38A2	979.5717505	723.3734482	0.73845887	-0.437411
PCYT1A	385.2248457	284.4602192	0.73842646	-0.437474
TNFAIP2	516.2012932	381.1322469	0.738340357	-0.437642
ASIC1	73.74304189	54.44746384	0.738340357	-0.437642
N4BP1	1879.897247	1387.854742	0.738260957	-0.437797
NCBP3	1371.400451	1012.278358	0.738134772	-0.438044
CCDC102B	57.23340565	42.22456379	0.737760811	-0.438775
SGK3	28.61670282	21.1122819	0.737760811	-0.438775
PHTF2	286.1670282	211.122819	0.737760811	-0.438775
COA5	212.4239863	156.6753551	0.737559622	-0.439168
CYTH1	792.4625397	584.4768567	0.737545092	-0.439197
FMNL1	310.3811614	228.9015827	0.737485425	-0.439314
ATP5PB	1167.781604	861.1588669	0.737431438	-0.439419
CAVIN2	253.1477557	186.6770189	0.737423164	-0.439435
POP7	97.95717505	72.22622754	0.737324525	-0.439628
SEPTIN9	3141.723255	1852.324943	1.696097257	0.762219
ENSG000001	69.7054288	41.11339106	1.695443431	0.761663
EIF4E	1024.835769	604.4779659	1.695406328	0.761631
BEX4	531.0889814	313.3507103	1.694870839	0.761175
COX19	48.95976547	28.89049102	1.694667129	0.761002
CTNND2	1238.931014	731.1516573	1.69449252	0.760853
SAP18	540.2170732	318.9065739	1.693966564	0.760405
MITD1	267.2041437	157.7865279	1.693453474	0.759968
DRG1	400.8062156	236.6797918	1.693453474	0.759968
AHI1	2839.666397	1677.870824	1.692422537	0.75909
PODXL	834.8054926	493.3606928	1.692079456	0.758797
H2AC20	2977.417602	1760.097607	1.691620732	0.758406
ENSG000000	63.89664307	37.77987287	1.691287932	0.758122
GTF3C6	163.4758271	96.67202764	1.691035464	0.757907
NABP1	163.4758271	96.67202764	1.691035464	0.757907
FRAS1	12421.67338	7349.296446	1.690185376	0.757181
COL23A1	71.36508187	42.22456379	1.690131891	0.757136
GTF2B	542.7065528	321.1289194	1.689995887	0.75702
TRIM47	114.5160616	67.78153662	1.689487541	0.756586
CAP1	2369.154753	1402.299987	1.68947784	0.756577
ZNF445	1353.447076	801.1555394	1.68936868	0.756484
YWHAG	1139.35183	674.481848	1.689225342	0.756362
XPA	258.9058784	153.3418369	1.688422961	0.755676
ABCB7	994.132187	588.9215477	1.68805538	0.755362
ZNF614	476.3204302	282.2378738	1.687655961	0.755021
FGD3	101.2388371	60.0033275	1.687220381	0.754648
ENSG000002	50.61941854	30.00166375	1.687220381	0.754648
PDE5A	412.4237871	244.4580009	1.687094656	0.754541
MICAL1	466.3625118	276.6820101	1.685554155	0.753223
SMU1	2129.334885	1263.403396	1.685395885	0.753088
NDUFA5	350.1867971	207.7893008	1.685297538	0.753003
RPL37A	1984.945068	1177.843095	1.685237258	0.752952
MFAP1	722.7789106	428.9126743	1.685142347	0.75287
ODAD4	73.02473494	43.33573653	1.685092738	0.752828
HPF1	453.0852872	268.903801	1.684934484	0.752692
STRN	1706.953179	1013.389531	1.684399855	0.752235
ZC3H14	2382.431977	1414.522887	1.684265415	0.75212
TTC3	7690.002485	4565.808753	1.684258562	0.752114
FBXO27	213.2654191	126.6736914	1.683580993	0.751533
RC3H2	3421.374797	2032.334926	1.68346996	0.751438
RAB20	110.3669289	65.55919115	1.68346996	0.751438
RARS2	568.4311754	337.7965104	1.68276213	0.750831
METTL2A	428.1904912	254.4585555	1.682751403	0.750822
MAD2L2	644.7752164	383.3545923	1.681929027	0.750117
C12orf57	779.2071148	463.359029	1.681648713	0.749876
ZNF525	289.6094601	172.2317734	1.681510063	0.749757
ARPC2	3102.721408	1845.657907	1.681092361	0.749399
NAPG	677.9682778	403.3557015	1.68081987	0.749165
ENSG000002	37.342194	22.22345463	1.680305543	0.748724
MEF2C	410.764134	244.4580009	1.680305543	0.748724
TRAF6	253.9269192	151.1194915	1.680305543	0.748724
NDUFA9	59.7475104	35.55752741	1.680305543	0.748724
SAMD14	29.8737552	17.7787637	1.680305543	0.748724
FAM131C	14.9368776	8.889381852	1.680305543	0.748724
ENSG000002	14.9368776	8.889381852	1.680305543	0.748724
CPP	14.9368776	8.889381852	1.680305543	0.748724
LINC01138	14.9368776	8.889381852	1.680305543	0.748724
HMGB1P1	7.4684388	4.444690926	1.680305543	0.748724
PTGES	7.4684388	4.444690926	1.680305543	0.748724
RPL23AP53	7.4684388	4.444690926	1.680305543	0.748724
KRT8P12	7.4684388	4.444690926	1.680305543	0.748724
LINC02916	7.4684388	4.444690926	1.680305543	0.748724
SDHCP3	7.4684388	4.444690926	1.680305543	0.748724
RPL9P7	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
MIR7161	7.4684388	4.444690926	1.680305543	0.748724
ENSG000002	7.4684388	4.444690926	1.680305543	0.748724
ADAM20P1	7.4684388	4.444690926	1.680305543	0.748724
EIF2S2P4	52.2790716	31.11283648	1.680305543	0.748724
ZNF24	962.5987787	573.3651294	1.678858252	0.74748
TRIM24	1076.285014	641.146666	1.678687687	0.747334
KPNA4	1803.213057	1074.504031	1.678181751	0.746899
SLC22A15	143.5599903	85.56030032	1.67788086	0.74664
OXCT1	1014.048024	604.4779659	1.677559946	0.746364
CALR	10031.77296	5984.776332	1.676215184	0.745207
DNAJC22	83.81247987	50.00277291	1.676156641	0.745157
CCT3	4553.258189	2717.928501	1.675267832	0.744392
SDCBP	1382.491005	825.6013395	1.674526116	0.743753
PIGF	277.1620621	165.564737	1.674040422	0.743334
SNAPC1	107.8774493	64.44801842	1.673867591	0.743185
NXPE3	416.5729197	248.9026918	1.673637664	0.742987
CYP4F3	100.4090105	60.0033275	1.673390706	0.742774
RTL5	286.290154	171.1206006	1.673031493	0.742465
TXNDC9	472.1712975	282.2378738	1.672955125	0.742399
CNOT6LP1	46.47028587	27.77931829	1.672837519	0.742297
GFM2	581.7083999	347.7970649	1.672551205	0.74205
DPCD	131.9424188	78.89326393	1.672416785	0.741934
MAIP1	163.4758271	97.78320037	1.671819152	0.741419
ACTBP2	39.00184707	23.33462736	1.671415038	0.74107
THOC1	891.2336968	533.3629111	1.670970512	0.740686
TYW5	219.0742048	131.1183823	1.670812292	0.74055
SRPK2	822.3580946	492.24952	1.670612283	0.740377
KLHL41	70.53525534	42.22456379	1.670479195	0.740262
IFI16	345.2078379	206.678128	1.670267876	0.740079
RFX2	133.6020719	80.00443666	1.669933287	0.73979
CUL5	660.5419206	395.5774924	1.669816745	0.73969
CAPRIN1	3013.558936	3930.888289	1.304400668	0.383387
XPO4	562.4282747	733.5666555	1.30428481	0.383259
ANKRD42-D	40.7237694	53.10889814	1.304125304	0.383082
ZNF561-AS1	40.7237694	53.10889814	1.304125304	0.383082
ZNF610	223.4304105	291.2691132	1.303623408	0.382527
PDE7A	851.8972302	1110.307902	1.303335499	0.382209
MYO7A	149.6873686	195.0092353	1.302776828	0.38159
PPP2R1B	472.1755966	614.9014612	1.302272853	0.381032
TMEM160	36.32119974	47.3001124	1.302272853	0.381032
PMEL	12.10706658	15.76670413	1.302272853	0.381032
ZNF81	254.2483982	331.1007868	1.302272853	0.381032
TMEM167B	169.4989321	220.7338579	1.302272853	0.381032
NECTIN1	330.1927249	429.8501443	1.301815915	0.380525
TCEA2	152.9892959	199.158368	1.301779754	0.380485
SMCHD1	5712.334141	7436.075565	1.301757807	0.380461
THAP4	502.9935842	654.7331348	1.301672934	0.380367
CTSK	538.2141416	700.3735942	1.301291698	0.379944
TCFL5	228.9336226	297.9077255	1.301284285	0.379936
DNAJA2	1108.346913	1442.238515	1.301251889	0.3799
DHX34	432.5524696	562.6223896	1.300703219	0.379292
SDHAF2	31.91863007	41.49132667	1.299909381	0.378411
DPY19L1P1	31.91863007	41.49132667	1.299909381	0.378411
TNFAIP1	223.4304105	290.4392867	1.299909381	0.378411
PRDM15	378.6209912	492.0871343	1.299682653	0.378159
NLK	692.3040799	899.5319622	1.299330725	0.377769
ARHGEF11	1456.149917	1892.004496	1.299319853	0.377757
ANAPC13	214.6252712	278.8217152	1.299109437	0.377523
ZNF358	234.4368347	304.5463377	1.299054981	0.377462
ATP5PB	1167.781604	1516.922903	1.298978249	0.377377
SLC39A9	639.4732439	830.6563599	1.298969688	0.377368
SETD1A	1067.623144	1386.640137	1.298810489	0.377191
KANSL1	39.62312699	51.44924507	1.298465038	0.376807
LOXL3	59.43469048	77.1738676	1.298465038	0.376807
FERMT2	1789.644569	2322.684467	1.297846794	0.37612
DDX19A	67.13918739	87.131786	1.297778382	0.376044
CIAPIN1	94.6552478	122.8143269	1.297490945	0.375724
PHETA1	47.3276239	61.40716347	1.297490945	0.375724
TULP3	488.6852328	633.9874715	1.297332984	0.375549
ENSG000002	27.51606041	35.68254093	1.296789599	0.374944
ENSG000002	27.51606041	35.68254093	1.296789599	0.374944
TPR	6457.469056	8370.460242	1.296244731	0.374338
DNAH14	1477.062123	1914.409812	1.296092956	0.374169
AKR7A2	266.3554647	345.2078379	1.296041882	0.374112
GLI2	316.9850159	410.764134	1.295847164	0.373896
TEX261	70.44111464	91.28091867	1.295847164	0.373896
KBTBD8	42.92505424	55.59837774	1.29524304	0.373223
LIN7C	565.730202	732.736829	1.295205429	0.373181
GRK5	265.2548223	343.5481848	1.295162824	0.373133
RPL23	2195.781621	2843.81553	1.295126757	0.373093
EMG1	136.4796596	176.7530516	1.295087137	0.373049
MDM2	1251.430427	1620.65122	1.295039008	0.372996
NANP	182.7066411	236.500562	1.294427836	0.372315
AKIP1	73.74304189	95.43005134	1.294088891	0.371937
FBXO11	4096.591073	5300.931895	1.293986097	0.371822
RLF	1586.025722	2052.161017	1.293901473	0.371728
ZPR1	243.241974	314.5042561	1.292968689	0.370687
FXR1	1689.486109	2184.103436	1.292761997	0.370457
SLC44A2	851.8972302	1101.17981	1.292620484	0.370299
BCORL1	1070.925071	1384.150658	1.292481328	0.370143
DPH3	130.9764475	169.2846128	1.292481328	0.370143
LRRC15	84.74946605	109.5371024	1.292481328	0.370143
GET1	53.9314784	69.7054288	1.292481328	0.370143
ZC3H11A	7.704496914	9.9579184	1.292481328	0.370143
POU2AF2	7.704496914	9.9579184	1.292481328	0.370143
RPL36P14	7.704496914	9.9579184	1.292481328	0.370143
COLEC10	7.704496914	9.9579184	1.292481328	0.370143
RNU6-1016P	7.704496914	9.9579184	1.292481328	0.370143
ATP6V0D1-D	7.704496914	9.9579184	1.292481328	0.370143
GTF2E2	427.0492575	551.8346447	1.292203733	0.369834
GNPNAT1	350.0042884	452.2554607	1.292142627	0.369765
SLC25A13	368.7152095	476.3204302	1.291838302	0.369426
CERS5	276.2612465	356.8254093	1.291623106	0.369185
CDIPT	230.034265	297.0778989	1.291450641	0.368993
EFNA5	214.6252712	277.1620621	1.291376643	0.36891
LRRC8C	206.9207743	267.2041437	1.291335511	0.368864
ZNF112	256.449683	331.1007868	1.291094545	0.368595
ZNF155	282.865101	365.1236747	1.290804958	0.368271
WDR24	182.7066411	235.6707355	1.289885984	0.367244
CNNM3	345.6017187	445.6168484	1.289394191	0.366693
FNBP1L	2218.895111	2860.412061	1.289115491	0.366382
C15orf61	128.7751627	165.9653067	1.288799045	0.366027
PITRM1	1916.218447	2469.563763	1.288769434	0.365994
NUP107	723.1220675	931.895197	1.288710771	0.365929
GLA	121.0706658	156.0073883	1.288564718	0.365765
MTDH	2043.892967	2633.03959	1.288247297	0.36541
LEPROTL1	377.5203488	486.2783486	1.288085133	0.365228
PRIMPOL	132.07709	170.1144393	1.287993545	0.365125
TNN	26.41541799	34.02288787	1.287993545	0.365125
SEPTIN6	26.41541799	34.02288787	1.287993545	0.365125
ALDOA	26.41541799	34.02288787	1.287993545	0.365125
VPS25	309.280519	398.316736	1.28788175	0.365
TIMM23	1078.629568	1389.129617	1.287865323	0.364982
MPDU1	203.618847	262.2251845	1.287823737	0.364935
DCAF10	418.2441182	538.5574202	1.287662867	0.364755
DPY19L3	463.3704573	596.6452775	1.287620452	0.364707
ZNG1E	241.0406892	310.3551235	1.28756321	0.364643
DPM1	993.8801019	1279.592514	1.28747171	0.364541
INPP1	116.6680961	150.1986025	1.287400819	0.364461
SPAG9	2430.218455	3128.446031	1.287310622	0.36436
C18orf25	172.8008594	222.3935109	1.286993084	0.364004
HEATR6	702.2098616	903.6810948	1.286910287	0.363911

PSMC2	1020.29552	752.2639392	0.737300051	-0.439676	BCL10	393.3377768	235.5686191	1.669737584	0.739621	PHKG2	202.5182046	260.5655315	1.286627698	0.363595
ASNSD1	363.2119974	267.7926283	0.737290151	-0.439696	METTL18	196.6688884	117.7843095	1.669737584	0.739621	ZC3H18	693.4047223	892.0635234	1.286497618	0.363449
VANGL2	69.34047223	51.11394565	0.73714447	-0.439981	TMEM70	322.8025215	193.3440553	1.669575623	0.739481	FHOD3	801.2676791	1030.644554	1.286267475	0.363191
NGDN	260.8522527	192.2328825	0.736941623	-0.440378	H1-6	31.53340827	18.88993643	1.669323154	0.739263	SGF29	130.9764475	168.4547863	1.286145635	0.363054
ARFIP2	672.4925164	495.5830382	0.736934652	-0.440391	RUVBL1	1190.801075	713.3728936	1.669254728	0.739204	RND2	18.71092108	24.06496947	1.286145635	0.363054
RUNDC1	505.1948691	372.242865	0.736830257	-0.440596	FCHSD2	1309.46627	784.4879484	1.669198708	0.739156	SETD9	18.71092108	24.06496947	1.286145635	0.363054
ZNF641	297.1734524	218.9010281	0.736610307	-0.441027	IGFBP5	6754.787982	4046.891088	1.669130163	0.739096	ENSG000002	18.71092108	24.06496947	1.286145635	0.363054
ELOA	810.0728184	596.6997568	0.736600147	-0.441046	SLC4A8	213.2654191	127.7848641	1.668941158	0.738933	ARHGAP10	875.010721	1125.244779	1.285978277	0.362866
USP7	4400.36838	3241.290858	0.736595343	-0.441056	SAFB	1974.987149	1183.398959	1.66891067	0.738907	LIPA	482.0813783	619.8804204	1.285841869	0.362713
NUDCD1	443.5588938	326.684783	0.736508246	-0.441226	AP1S1	205.7969803	123.3401732	1.66853163	0.738579	SNAP47	324.6895128	417.4027463	1.285544281	0.362379
CMIP	666.9893043	491.1383473	0.736351159	-0.441534	PABPC1	30151.74709	18076.558	1.668002675	0.738122	RIMOC1	268.5567496	345.2078379	1.285418588	0.362238
ZNF616	609.7558986	448.9137835	0.736218845	-0.441793	RBBP4P1	127.7932861	76.67091847	1.666776513	0.737061	ALKBH1	175.0021442	224.8829905	1.285029915	0.361802
RASSF3	304.8779493	224.4568918	0.736218845	-0.441793	DDX24	96.25987787	57.78098203	1.665943957	0.73634	EOLA1	78.14561156	100.4090105	1.284896343	0.361652
PCCA	845.2933757	622.2567296	0.736142915	-0.441942	MRPS7	377.5710727	226.6792372	1.665662358	0.736096	SLC31A1	189.3104956	243.1391743	1.284340699	0.361028
ARID3B	105.661672	77.7820912	0.736142915	-0.441942	KLF12	579.2189203	347.7970649	1.665393353	0.735863	FARSA	537.1134992	689.5858492	1.283873614	0.360503
ANKRD35	52.83083598	38.8910456	0.736142915	-0.441942	RAB11FIP2	911.9793602	547.8081566	1.664778717	0.73533	TSPAN6	340.0985066	436.4887566	1.283418621	0.359992
MATCAP2	182.7066411	134.4519005	0.735889509	-0.442439	PPIL6	105.3879697	63.33684569	1.663928296	0.734593	TIAM2	136.4796596	175.0933985	1.282926694	0.359439
SAYSD1	247.6445437	182.232328	0.73586248	-0.442492	SLFNL1-AS1	105.3879697	63.33684569	1.663928296	0.734593	ZNF317	431.4518272	553.4942978	1.282864651	0.359369
SNX24	129.8758051	95.5608549	0.735786429	-0.442641	MAN2A1	1556.754577	935.6074399	1.663897176	0.734566	FRS3	147.4860838	189.2004496	1.282835945	0.359337
CEP350	3209.473286	2361.242054	0.735710144	-0.442791	WAS	40.66150013	24.44580009	1.66333276	0.734077	CXXC1	316.9850159	406.6150013	1.282757799	0.359249
ZC2HC1A	709.9143585	522.2511838	0.735653783	-0.442901	COLEC11	40.66150013	24.44580009	1.66333276	0.734077	UBE4B	1511.182038	1937.644955	1.282204862	0.358627
KIF5B	8002.771009	5885.881958	0.735480492	-0.443241	SLAIN2	1653.844281	994.4995946	1.662991408	0.733781	RAB7A	1263.537494	1619.821393	1.281973349	0.358366
GALNT18	166.1970049	122.2290005	0.735446469	-0.443308	DHX33	646.4348695	388.910456	1.662168912	0.733067	CHI3L1	11.00642416	14.10705107	1.28171065	0.358071
GEMIN5	778.1541883	572.2539567	0.735399186	-0.443401	GDAP2	1166.736106	702.2611663	1.661399152	0.732399	TMPRSS4	11.00642416	14.10705107	1.28171065	0.358071
EIF2S1	534.9122143	393.3551469	0.735363928	-0.44347	CCDC171	725.2683902	436.6908835	1.660827871	0.731903	TIMP4	11.00642416	14.10705107	1.28171065	0.358071
SNX5	607.5546138	446.691438	0.735228452	-0.443735	GLB1L2	413.2536136	248.9026918	1.660301906	0.731446	TNFRSF18	11.00642416	14.10705107	1.28171065	0.358071
DOCK5	1955.841574	1437.857514	0.735160523	-0.443869	EPRS1	5003.02417	3013.500448	1.660203559	0.73136	SAP30L-AS1	11.00642416	14.10705107	1.28171065	0.358071
TMEM26	441.3576089	324.4624376	0.735146355	-0.443897	NAA35	1315.275055	792.2661575	1.660142924	0.731307	ENSG000002	11.00642416	14.10705107	1.28171065	0.358071
CHML	226.7323378	166.6759097	0.735121912	-0.443945	SUPV3L1	861.3599416	518.9176656	1.659916397	0.731111	ALOXE3P1	11.00642416	14.10705107	1.28171065	0.358071
EIF2AK4	1696.089964	1246.735805	0.735064667	-0.444057	POMK	1243.080147	748.930421	1.659807256	0.731016	TRIM14	457.8672452	586.6873591	1.281348175	0.357663
NPAT	994.9807443	731.1516573	0.734840007	-0.444498	PGBD4	82.98265334	50.00277291	1.65956103	0.730802	AKIRIN2	168.3982897	215.7548987	1.281217874	0.357516
SLC12A4	833.1863091	612.256175	0.734837057	-0.444504	KCNH5	16.59653067	10.00055458	1.65956103	0.730802	SLC25A44	168.3982897	215.7548987	1.281217874	0.357516
NEMF	2442.325522	1794.543961	0.734768541	-0.444638	RRAS2P1	16.59653067	10.00055458	1.65956103	0.730802	ZNF513	314.7837311	403.2956952	1.281183414	0.357477
TTC19	679.0963709	498.9165564	0.734677106	-0.444818	CSTF1	590.0066652	355.5752741	1.659301724	0.730576	CSF3R	135.3790172	173.4337455	1.281097685	0.35738
SELENOO	282.865101	207.7893008	0.734587972	-0.444993	POLD1	508.683665	306.6836739	1.658659095	0.730017	ZFAT	500.7922994	641.4559103	1.280882136	0.357138
ZNF445	1090.736635	801.1555394	0.734508693	-0.445149	ANAPC1	1343.489158	810.0449212	1.65853661	0.729911	FOXC1	354.406858	453.9151138	1.280774069	0.357016
PBX1	1825.965769	1341.185487	0.734507464	-0.445151	PTPRC	250.6076131	151.1194915	1.658340765	0.72974	SBNO1	3590.295562	4597.238995	1.280462546	0.356665
BBS7	379.7216336	278.9043556	0.734496881	-0.445172	PMM2	394.1676033	237.7909645	1.657622291	0.729115	KAT7	1305.361906	1671.270638	1.280312096	0.356496
FH	525.0064326	385.5769378	0.734423264	-0.445316	FOXJ2	370.1026339	223.345719	1.657084074	0.728647	IFT43	200.3169198	256.4163988	1.280053623	0.356204
KDM2A	2221.096396	1631.20157	0.734412776	-0.445337	EIF5A2	169.2846128	102.2278913	1.655953289	0.727662	ZNF420	200.3169198	256.4163988	1.280053623	0.356204
EVL	839.7901636	616.7008659	0.734351142	-0.445458	TFDP1	711.9911656	430.0238471	1.655701586	0.727443	COA3	141.9828717	181.7320108	1.279957284	0.356096
NAA15	1021.396162	750.0415937	0.734329755	-0.4455	MAP4K4	4172.36781	2520.139755	1.655609695	0.727363	SELL	94.6552478	121.1546739	1.279957284	0.356096
ZMYND12	36.32119974	26.66814555	0.734230855	-0.445694	ZNF81	331.1007868	200.0110917	1.655412128	0.72719	ERCC3	618.561038	791.6545128	1.279832489	0.355955
CCDC174	338.9978642	248.9026918	0.734230855	-0.445694	OR9A4	68.04577574	41.11339106	1.65507573	0.726897	MAP2K4	381.9229185	488.7678282	1.279755167	0.355868
SLC25A42	108.9635992	80.00443666	0.734230855	-0.445694	TDRD7	783.3562475	473.3595836	1.654886211	0.726732	UBE2J2	195.9143501	250.6076131	1.279169254	0.355207
SAMD14	24.21413316	17.7787637	0.734230855	-0.445694	NAA25	1406.555974	850.0471396	1.654679968	0.726552	HADHA	2726.291265	3486.931093	1.279001674	0.355018
CKS1B	24.21413316	17.7787637	0.734230855	-0.445694	TTC26	213.2654191	128.8960368	1.654553734	0.726442	OLFM2	86.95075089	111.1967555	1.278847558	0.354844
FAM182B	24.21413316	17.7787637	0.734230855	-0.445694	H1-10	998.2813196	603.3667932	1.654518165	0.726411	KTN1	3522.055732	4503.468597	1.278647738	0.354619
C16orf86	12.10706658	8.889381852	0.734230855	-0.445694	MXD3	341.8885317	206.678128	1.654207608	0.72614	TESK1	480.9807359	614.9014612	1.278432618	0.354376
SFT2D3	12.10706658	8.889381852	0.734230855	-0.445694	ZNF330	367.6131543	222.2345463	1.654167457	0.726105	KCTD6	177.203429	226.5426436	1.278432618	0.354376
CFAP73	12.10706658	8.889381852	0.734230855	-0.445694	CIAO2A	299.5673785	181.1211552	1.653961285	0.725925	SLC25A32	50.62955115	64.7264696	1.278432618	0.354376
EXOC3L4	12.10706658	8.889381852	0.734230855	-0.445694	SLC25A46	463.0432056	280.0155283	1.653634027	0.72564	ENSG000002	50.62955115	64.7264696	1.278432618	0.354376
EIF4HP1	12.10706658	8.889381852	0.734230855	-0.445694	ISCA2	180.0723577	108.8949277	1.653634027	0.72564	MFNG	25.31477557	32.3632348	1.278432618	0.354376
ALKBH6	12.10706658	8.889381852	0.734230855	-0.445694	GTF2E1	437.3185831	264.4591101	1.653634027	0.72564	ADAMTSL4-	25.31477557	32.3632348	1.278432618	0.354376
RENO1	12.10706658	8.889381852	0.734230855	-0.445694	LY6E	25.72462253	15.55641824	1.653634027	0.72564	GNS	1586.025722	2027.266221	1.278205134	0.354119
ENSG000002	12.10706658	8.889381852	0.734230855	-0.445694	GNAQ	2584.909651	1563.420033	1.653368638	0.725408	GUK1	487.5845904	623.1997266	1.278136633	0.354042
SNRNP70	1855.683114	1362.297769	0.734121984	-0.445908	MAPK8IP2	172.6039189	104.4502368	1.652499068	0.724649	MYL12A	718.7194978	918.6179724	1.27813142	0.354036
FBLIM1	201.4175622	147.7859733	0.733729332	-0.44668	CTXN1	181.7320108	110.0061004	1.652017571	0.724229	SRI	356.6081429	455.5747668	1.277522053	0.353348
ACTB	16580.07736	12162.89672	0.73358504	-0.446964	FRMPD2B	60.57733694	36.66870014	1.652017571	0.724229	DNAJC27	118.869381	151.8582556	1.277522053	0.353348
PARVB	152.9892959	112.2284459	0.733570576	-0.446992	PNRC2	607.4330224	367.7981741	1.651538983	0.723811	ABLIM1	464.4710997	593.3259714	1.277422797	0.353236
STEEP1	140.8822293	103.339064	0.733513833	-0.447104	ALAS1	495.4064404	300.0166375	1.651263225	0.72357	TIMMDC1	647.1777408	826.5072272	1.277094645	0.352865
KLHL18	269.657392	197.7887462	0.73348164	-0.447167	ALCAM	3746.666798	2269.014718	1.651230717	0.723542	ZNF449	161.7944352	206.6268068	1.277094645	0.352865
NEIL1	128.7751627	94.44968217	0.733446421	-0.447237	KDM1A	2872.029632	1740.096497	1.650500209	0.722903	MAPK9	1211.8073	1546.796658	1.276437811	0.352123
CFAP36	337.8972218	247.7915191	0.733333994	-0.447458	NEK3	183.3916639	111.1172731	1.650433445	0.722845	PPP3CB	953.1563325	1216.525698	1.276312874	0.351982
ZNF555	221.2291257	162.2312188	0.733317633	-0.44749	CCAR1	2279.533487	1381.187705	1.65041542	0.722829	LASP1	687.9015102	877.9564723	1.276282228	0.351947
MS4A4A	209.1220591	153.3418369	0.733264762	-0.447594	WARS1	1074.625361	651.1472206	1.65035698	0.722778	PPP1R15B	1586.025722	2023.946915	1.276112289	0.351755
PAF1	1021.396162	748.930421	0.733241859	-0.447639	VMP1	2090.333038	1266.736914	1.650171409	0.722616	EBP	57.23340565	73.02473494	1.275911054	0.351528
WBP4	184.9079259	135.5630732	0.73313825	-0.447843	MIPOL1	324.4621745	196.6775735	1.649716177	0.722218	RNF122	14.30835141	18.25618373	1.275911054	0.351528
AGAP2	92.45396297	67.78153662	0.73313825	-0.447843	EIF4H	1114.457034	675.5930207	1.649598205	0.722115	SEPSECS-AS	14.30835141	18.25618373	1.275911054	0.351528
ZNF225	321.3875856	235.5686191	0.732973611	-0.448167	ZRANB3	342.7183583	207.7893008	1.649355174	0.721902	ENSG000002	14.30835141	18.25618373	1.275911054	0.351528
ABHD13	365.4132822	267.7926283	0.732848644	-0.448413	RMND1	573.4101346	347.7970649	1.648691701	0.721322	FAM177A1	744.0342734	949.3215542	1.275911054	0.351528
JADE1	272.9593192	200.0110917	0.732750551	-0.448606	SGF29	168.4547863	102.2278913	1.647835871	0.720573	CPNE3	2128.642433	2715.192417	1.275551203	0.351121
MYH9	10829.22073	7934.884475	0.732729037	-0.448648	NUP43	897.0424826	544.4746384	1.64753768	0.720311	PDIA3P1	806.7708911	1028.984901	1.275436326	0.350991
PARP3	112.2655265	82.22678213	0.73243127	-0.449235	GJA4	62.23699	37.77987287	1.647358376	0.720154	ZNF326	868.4068665	1106.988596	1.274734964	0.350197
ACADM	745.1349158	545.5858111	0.73219735	-0.449696	CAMSAP1	2369.984579	1438.968687	1.64700219	0.719842	PPP2R3C	259.7516102	331.1007868	1.274682326	0.350138
NHLRC2	2017.477549	1476.74856	0.731977692	-0.450128	SPTB	1837.235945	1115.617422	1.646833321	0.719695	MRPS9	245.4432588	312.8446031	1.274610696	0.350057
SCG2	176.1027866	128.8960368	0.731936384	-0.45021	BTBD10	590.8364918	358.9087923	1.646202335	0.719142	B3GALT6	46.22698148	58.91768387	1.274530198	0.349966
CCR1	44.02569665	32.22400921	0.731936384	-0.45021	VAPA	2041.373272	1240.068768	1.646177474	0.71912	RASSF5	156.2912231	199.158368	1.274277365	0.349679
SNORD15B	44.02569665	32.22400921	0.731936384	-0.45021	RPL39P3	89.6212656	54.44746384	1.646013593	0.718976	RRP15	205.8201318	262.2251845	1.274050221	0.349422
IFT27	132.07709	96.67202764	0.731936384	-0.45021	RELT	98.74935747	60.0033275	1.645731355	0.718729	IFT140	609.7558986	776.7176352	1.273817337	0.349158
CAPRIN1	3013.558936	2205.677872	0.731917948	-0.450246	GLCCI1	394.9974299	240.01331	1.645731355	0.718729	HIF1A	3764.197064	4794.73771	1.273774361	0.34911
PPL	1032.402586	755.5974574	0.731882569	-0.450316	LEO1	709.501686	431.1350198	1.645660068	0.718666	CDKN2AIP	177.203429	225.7128171	1.273749714	0.349082
BLCAP	347.8030036	254.4585555	0.731616901	-0.45084	ABTB2	224.8829905	136.674246	1.645394046	0.718433	ZNF639	485.3833056	618.2207674	1.273675382	0.348998
NIN	2466.539655	1804.544516	0.731609773	-0.450854	DTD2	117.0055412	71.11505481	1.645299178	0.71835	CENPC	1101.743059	1403.236668	1.273651471	0.348971
ZFP69	75.94432672	55.55863657	0.731570599	-0.450931	KIN	378.4008992	230.0127554	1.645130065	0.718202	AGBL5	532.7109295	677.9682778	1.272675743	0.347865
NAA35	1083.032138	792.2661575	0.731525991	-0.451019	SLC24A3	560.9627366	341.1300286	1.644424969	0.717583	WASHC5	1929.426156	2455.456712	1.272635755	0.34782
SOS2	2737.297689	2002.333262	0.731500001	-0.45107	C17orf80	617.3909408	375.5763832	1.64384921	0.717078	CTSA	1230.518221	1565.882668	1.272539196	0.34771
C11orf58	730.8265644	534.4740838	0.731328211	-0.451409	SUSD1	546.025859	332.2406467	1.643464953	0.716741	ADRM1	486.483948	619.0505939	1.272499527	0.347665
ZNF525	235.5374771	172.2317734	0.731228743	-0.451605	MFSD14B	1332.701413	811.1560939	1.64296542	0.716302	HYAL2	211.3233439	268.8637968	1.272286307	0.347423
XPNPEP3	682.3982981	498.9165564	0.731122217	-0.451816	TSACC	36.51236747	22.22345463	1.64296542	0.716302	RAB11B	770.4496914	980.0251359	1.27201704	0.347118
ZW10	287.2676707	210.0116462	0.731066067	-0.451926	ENSG000002	36.51236747	22.22345463	1.64296542	0.716302	ARHGAP12	1469.357626	1868.769353	1.271827444	0.346903
ZWINT	31.91863007	23.33462736	0.731066067	-0.451926	RABAC1	18.25618373	11.11172731	1.64296542	0.716302	NR4A2	91.35332055	116.1757147	1.271718575	0.346779
BLOC1S5	31.91863007	23.33462736	0.731066067	-0.451926	ENSG000002	18.25618373	11.11172731	1.64296542	0.716302	POLI	319.1863007	405.7851748	1.271311375	0.346317
DUSP10	179.4047139	131.1183823	0.730852493	-0.452348	ENSG000002	18.25618373	11.11172731	1.64296542	0.716302	MTREX	1299.858694	1652.184628	1.271049412	0.34602
ACSL1	1730.209878	1264.514568	0.730844613	-0.452363	HHAT	9.128091867	5.555863657	1.64296542	0.716302	MUL1	175.0021442	222.3935109	1.270804492	0.345742
PSME3IP1	374.2184215	273.3484919	0.730451726	-0.453139	NSF	9.128091867	5.555863657	1.64296542	0.716302	TMEM183A	1171.083531	1487.878974	1.270514814	0.345413
ECI2	851.8972302	622.2567296	0.730436381	-0.453169	CEACAM8	9.128091867	5.555863657	1.64296542	0.716302	ZNF714	461.1691724	585.8575326	1.270374447	0.345254
POU2AF3	103.4603871	75.55974574	0.730325372	-0.453389	RPH3AL	9.128091867	5.555863657	1.64296542	0.716302	SSU72	435.8543969	553.4942978	1.269906422	0.344722
SPIRE1	700.0085768	511.1394565	0.730190277	-0.453656	ENSG000002	9.128091867	5.555863657	1.64296542	0.716302	CYREN	104.5610295	132.7722453	1.269806217	0.344608
CAPZA1	849.6959454	620.0343841	0.729713243	-0.454598	CRYZL2P	9.128091867	5.555863657	1.64296542	0.716302	LYRM1	194.8137077	247.2883069	1.269357839	0.344099
RFFL	361.0107125	263.3479374	0.729474024	-0.455071	ENSG000002	9.128091867	5.555863657	1.64296542	0.716302	MYO10	2027.383331	2573.29208	1.269267652	0.343996

IQCC	59.43469048	43.33573653	0.72913203	-0.455748
RNF166	158.4925079	115.5619641	0.72913203	-0.455748
GAL3ST3	19.81156349	14.44524551	0.72913203	-0.455748
INAFM2	19.81156349	14.44524551	0.72913203	-0.455748
RPL26L1	99.05781747	72.22622754	0.72913203	-0.455748
FNIP1	1583.824437	1154.508468	0.728937148	-0.456134
ZNF776	506.2955115	368.9093468	0.728644316	-0.456713
RPL14P1	126.5738779	92.22733671	0.728644316	-0.456713
CFAP44	1340.582463	976.7208309	0.728579448	-0.456842
ADAMTS12	106.7623144	77.7820912	0.728553813	-0.456893
KLHL32	86.95075089	63.33684569	0.728422067	-0.457153
NONO	2195.781621	1598.977561	0.728204274	-0.457585
ZNF112	256.449683	186.6770189	0.727928445	-0.458131
ZNF766	682.3982981	496.694211	0.727865548	-0.458256
ITIH6	47.3276239	34.44635467	0.727827679	-0.458331
UPK1A	47.3276239	34.44635467	0.727827679	-0.458331
TMEM81	47.3276239	34.44635467	0.727827679	-0.458331
JAKMIP3	47.3276239	34.44635467	0.727827679	-0.458331
ZNF487	47.3276239	34.44635467	0.727827679	-0.458331
ALDH18A1	1163.379034	846.7136214	0.727805467	-0.458375
ARL1	1383.507517	1006.722495	0.727659577	-0.458664
ZNF783	366.5139246	266.6814555	0.727616163	-0.458751
WWTR1	1326.274112	964.4979309	0.727223673	-0.459529
TMEM144	314.7837311	228.9015827	0.727170943	-0.459634
EHD2	369.8158519	268.903801	0.72712892	-0.459717
BBOF1	184.9079259	134.4519005	0.72712892	-0.459717
PPP2R2A	515.1006508	374.4652105	0.726974835	-0.460023
SAFB	1627.850134	1183.398959	0.726970459	-0.460031
CAV1	247.6445437	180.0099825	0.726888547	-0.460194
RGS7	27.51606041	20.00110917	0.726888547	-0.460194
GIT2	1441.841565	1047.835886	0.726734414	-0.4605
ASXL2	2659.152078	1932.32938	0.726671256	-0.460625
METAP2	1173.284816	852.269485	0.726396075	-0.461172
LYN	305.9785917	222.2345463	0.726307501	-0.461348
ZNF282	313.6830886	227.7904099	0.726180079	-0.461601
STRN3	1564.012874	1135.618532	0.726092829	-0.461774
MTR	1492.471117	1083.393413	0.725905782	-0.462146
NDC80	35.22055732	25.55697282	0.725626588	-0.462701
ZNF703	923.4389873	670.0371571	0.725588985	-0.462776
BMT2	183.8072835	133.3407278	0.725437672	-0.463076
CCNC	425.9486151	308.9060193	0.725218978	-0.463511
CYB5R4	199.2162773	144.4524551	0.725103676	-0.463741
PTGR2	42.92505424	31.11283648	0.724817639	-0.46431
CCDC40	42.92505424	31.11283648	0.724817639	-0.46431
ORAI3	42.92505424	31.11283648	0.724817639	-0.46431
FAM24B	42.92505424	31.11283648	0.724817639	-0.46431
NUDC	472.1755966	342.2412013	0.724817639	-0.46431
DYNC1LI2	1326.274112	961.1644127	0.724710227	-0.464524
MRPS33	136.4796596	98.8943731	0.724608879	-0.464726
DMTF1	1320.7709	956.7197218	0.724364628	-0.465212
KCTD1	833.1863091	603.3667932	0.724167916	-0.465604
ZFAND4	420.445403	304.4613284	0.724139986	-0.465659
PTPRE	210.2227015	152.2306642	0.724139986	-0.465659
ZC3H10	175.0021442	126.6736914	0.723840796	-0.466256
LNPK	423.7473303	306.6836739	0.723741843	-0.466453
ZDHHC16	322.488228	233.3462736	0.723580749	-0.466774
CDKN2B	66.03854498	47.78042745	0.723523322	-0.466889
ZNG1C	66.03854498	47.78042745	0.723523322	-0.466889
BMP2K	1433.036426	1036.724158	0.723445782	-0.467043
ASCC2	823.2805274	595.5885841	0.723433343	-0.467068
EIF4E2	559.1263475	404.4668742	0.723390833	-0.467153
CEBPG	147.4860838	106.6725822	0.723272186	-0.467389
UBE2W	73.74304189	53.33629111	0.723272186	-0.467389
IFT22	244.3426164	176.6764643	0.723068562	-0.467796
PIK3C3	895.9229269	647.8137024	0.723068562	-0.467796
HOMEZ	1008.188453	728.9293118	0.723008986	-0.467915
IFNGR2	89.15203572	64.44801842	0.722900132	-0.468132
C2orf69	193.7130653	140.0077642	0.722758498	-0.468414
ZBTB40	879.4132906	635.5908024	0.72274414	-0.468443
VPS36	499.691657	361.1311377	0.722707959	-0.468515
SLC18B1	104.5610295	75.55974574	0.722637737	-0.468655
LAMA1	112.2655265	81.11560939	0.72253355	-0.468864
FCF1	456.7666028	330.0183012	0.7225097	-0.468911
ZNF638	3396.582497	2453.469391	0.722334698	-0.469261
PLEKHA1	626.2655349	452.2473017	0.722133467	-0.469663
CHD8	8248.214268	5955.885841	0.722081853	-0.469766
GPR155	687.9015102	496.694211	0.722042623	-0.469844
ARID1A	7060.621101	5098.060492	0.722041364	-0.469847
CSTB	1051.113508	758.9309756	0.722025709	-0.469878
CLIP1	3546.269865	2560.141973	0.72192531	-0.470079
MAN1A1	1108.346913	800.0443666	0.721835697	-0.470258
NME4	478.7794511	345.5747195	0.721782689	-0.470364
WTAP	1118.252695	806.711403	0.721403496	-0.471122
SCAF4	2563.396188	1848.991425	0.721305366	-0.471318
UTP11	169.4989321	122.2290005	0.72111959	-0.47169
PGBD4	69.34047223	50.00277291	0.72111959	-0.47169
CDK5	46.22698148	33.33518194	0.72111959	-0.47169
WNT10A	23.11349074	16.66759097	0.72111959	-0.47169
MTTP	23.11349074	16.66759097	0.72111959	-0.47169
CHAC2	23.11349074	16.66759097	0.72111959	-0.47169
LINC02913	23.11349074	16.66759097	0.72111959	-0.47169
TNFRSF10A	77.04496914	55.55863657	0.72111959	-0.47169
CABP4	38.52248457	27.77931829	0.72111959	-0.47169
COPB2-DT	38.52248457	27.77931829	0.72111959	-0.47169
SRD5A2	38.52248457	27.77931829	0.72111959	-0.47169
COPS3	785.8586852	566.698093	0.72111959	-0.47169
AMDHD1	15.40899383	11.11172731	0.72111959	-0.47169
BOLL	15.40899383	11.11172731	0.72111959	-0.47169
MOB2	15.40899383	11.11172731	0.72111959	-0.47169
RAB44	15.40899383	11.11172731	0.72111959	-0.47169
ENSG000002	15.40899383	11.11172731	0.72111959	-0.47169
TP63	109.5371024	66.67036389	1.64296542	0.716302
RAC2	27.3842756	16.66759097	1.64296542	0.716302
SYCE1L	27.3842756	16.66759097	1.64296542	0.716302
RCSD1	82.1528268	50.00277291	1.64296542	0.716302
DNTTIP1	184.2214904	112.2284459	1.641486603	0.715003
C15orf61	165.9653067	101.1167186	1.641324096	0.71486
NPIPA7	165.9653067	101.1167186	1.641324096	0.71486
ENTPD4	1125.244779	685.5935753	1.641270893	0.714813
CDK2AP2	258.9058784	157.7865279	1.640861751	0.714454
SNIP1	472.1712975	287.7937374	1.640658694	0.714275
EDIL3	222.3935109	135.5630732	1.640516887	0.71415
SRM	1029.814728	627.8125933	1.640321871	0.713979
ATP11C	790.8246863	482.2489654	1.639868083	0.71358
NAIF1	167.6249597	102.2278913	1.639718453	0.713448
C1D	83.81247987	51.11394565	1.639718453	0.713448
MYO1E	819.868615	500.0277291	1.639646298	0.713385
OSBPL8	2555.865723	1558.975342	1.639452308	0.713214
SMARCD1	590.0066652	360.019965	1.638816517	0.712654
AMN1	365.9535012	223.345719	1.638506898	0.712382
APIP	367.6131543	224.4568918	1.637789561	0.71175
CGGBP1	1077.11484	657.814257	1.637414861	0.71142
UQCC6	94.6002248	57.78098203	1.637220786	0.711249
PAH	47.3001124	28.89049102	1.637220786	0.711249
TIAL1	2781.57854	1698.983106	1.637202	0.711232
NDUFA12	909.4898806	555.5863657	1.636991	0.711046
MAML3	2435.540875	1487.860287	1.63694192	0.711003
RPL22	265.5444907	162.2312188	1.636827318	0.710902
DFFA	761.7807576	465.5813745	1.63619251	0.710343
NSD1	9163.774408	5601.421739	1.635972943	0.710149
AP5M1	1221.504657	746.7080755	1.635853016	0.710043
GPM6B	76.34404107	46.66925472	1.635853016	0.710043
CNRIP1	38.17202053	23.33462736	1.635853016	0.710043
ABHD10	526.9398487	322.2400921	1.635239877	0.709502
MTA3	1504.475505	920.0510216	1.635208776	0.709475
PALLD	924.4267582	565.5869203	1.634455687	0.70881
NT5C3A	154.3477352	94.44968217	1.634179509	0.708566
CNIH1	695.394635	425.5791561	1.633995991	0.708404
PAWR	840.6142783	514.4729747	1.63393282	0.708349
TNFAIP6	29.04392867	17.7787637	1.633630389	0.708082
DCUN1D1	845.5932375	517.8064929	1.633029422	0.707551
TMEM30A	1467.963138	898.9387397	1.632995746	0.707521
PSMC5	1001.600626	613.3673478	1.632953938	0.707484
ZBTB34	350.1867971	214.4563372	1.632904869	0.707441
EEA1	1645.546016	1007.833667	1.632755552	0.707309
NDUFAF8	156.0073883	95.5608549	1.632544921	0.707123
ZNG1C	78.00369414	47.78042745	1.632544921	0.707123
MARCHF7	2633.869417	1613.422806	1.632473154	0.707059
BTAF1	1601.565209	981.1655219	1.632308896	0.706914
CCDC12	97.91953094	60.0033275	1.63190168	0.706554
NSUN2	1969.178364	1206.733586	1.631825273	0.706487
UBALD2	638.1366042	391.1328015	1.631508791	0.706207
ACAT1	353.5061032	216.6786826	1.631476151	0.706178
USP39	1228.973096	753.3751119	1.631289747	0.706013
DCAF16	551.0048182	337.7965104	1.631173802	0.705911
ABI2	1948.4327	1194.510686	1.631155521	0.705894
SH3PXD2B	1448.047301	887.8270124	1.631001626	0.705758
RBMS1	581.7083999	356.6864468	1.630867685	0.70564
MEX3C	900.3617887	552.2528475	1.630343407	0.705176
KLHL29	148.5389495	91.11616398	1.630215134	0.705062
SLTM	2321.85464	1424.523442	1.629916765	0.704798
UGGT2	1885.365884	1156.730813	1.629908931	0.704791
MAP3K2	1082.923626	664.4812934	1.629727784	0.704631
CACNG4	298.737552	183.3435007	1.629387193	0.704329
ANKRD53	19.9158368	12.22290005	1.629387193	0.704329
PPP3R2	19.9158368	12.22290005	1.629387193	0.704329
RANBP6	950.1513807	583.365684	1.628740611	0.703757
CTSK	700.3735942	430.0238471	1.628685476	0.703708
COA7	170.1144393	104.4502368	1.628664947	0.70369
KLC1	482.9590424	296.6831193	1.627861555	0.702978
WASHC3	475.4906036	292.2384284	1.627063923	0.702271
CD209	50.61941854	31.11283648	1.62696251	0.702181
NUAK1	385.0395115	236.6797918	1.626837292	0.70207
PTGFRN	1135.202698	697.8164753	1.626792628	0.70203
ZNF532	1359.255862	835.601894	1.626678771	0.701929
NMD3	811.5703496	498.9165564	1.6266655	0.701918
ZC3HAV1L	153.5179087	94.44968217	1.625393597	0.700789
RAB5IF	30.70358173	18.88993643	1.625393597	0.700789
RASA1	1045.581432	643.3690115	1.625165983	0.700587
CRACD	164.3056536	101.1167186	1.624910855	0.700361
RNF38	1469.622791	904.4946034	1.624799955	0.700262
HELZ	4296.84179	2644.591101	1.624766032	0.700232
MTX2	1287.060953	792.2661575	1.624531025	0.700023
M6PR	1159.267667	714.4840663	1.622524171	0.69824
SNX30	482.9590424	297.794292	1.62178744	0.697585
IFIT1	63.06681654	38.8910456	1.621628207	0.697443
UBA3	580.0487468	357.7976195	1.621164354	0.69703
RCCD1	73.85456147	45.55808199	1.621107787	0.69698
SETX	9660.840501	5965.886395	1.619347044	0.695412
TMX4	419.0623993	258.9032464	1.618606198	0.694752
MORN3	21.57548987	13.33407278	1.618072005	0.694276
SPATA4	21.57548987	13.33407278	1.618072005	0.694276
GSDMA	21.57548987	13.33407278	1.618072005	0.694276
C19orf81	21.57548987	13.33407278	1.618072005	0.694276
TNFRSF9	10.78774493	6.667036389	1.618072005	0.694276
CD226	10.78774493	6.667036389	1.618072005	0.694276
ENSG000002	10.78774493	6.667036389	1.618072005	0.694276
MRPS36P1	10.78774493	6.667036389	1.618072005	0.694276
ENSG000002	10.78774493	6.667036389	1.618072005	0.694276
ENSG000002	10.78774493	6.667036389	1.618072005	0.694276
PTS	258.9058784	160.0088733	1.618072005	0.694276
DLX6	32.3632348	20.00110917	1.618072005	0.694276
ZNF594	559.1263475	709.501686	1.268946973	0.343632
RWDD1	294.9721676	374.2517665	1.268769761	0.34343
PPP2R5D	346.7023611	439.8080627	1.268546488	0.343176
CLSTN1	3348.15423	4247.052198	1.268475675	0.343096
GLB1L2	325.7901552	413.2536136	1.268465627	0.343084
CETN3	117.7687385	149.368776	1.268322798	0.342922
GREB1	2383.991474	3023.058061	1.268065802	0.34263
SLC25A11	193.7130653	245.6286539	1.268002515	0.342558
TEKT3	24.21413316	30.70358173	1.268002515	0.342558
RAD9B	24.21413316	30.70358173	1.268002515	0.342558
PCMTD2	24.21413316	30.70358173	1.268002515	0.342558
DUS2	72.64239948	92.1107452	1.268002515	0.342558
PPP6R3	3295.323394	4178.176595	1.267910944	0.342453
DAPK3	269.657392	341.8885317	1.267862636	0.342398
ERLIN1	197.0149925	249.7777865	1.26781106	0.34234
HMGCL	348.903646	442.2975423	1.26767819	0.342189
WDFY2	224.5310529	284.6305009	1.267666531	0.342175
HUWE1	17483.70478	22163.00705	1.267637914	0.342143
PTPRU	756.14134	958.449646	1.267553558	0.342047
CAMSAP3	299.3747372	379.2307257	1.266742576	0.341123
NIN	2466.539655	3124.296898	1.266672073	0.341043
NABP2	247.6445437	313.6744296	1.266631701	0.340997
IRF2BP1	250.9464709	317.8235623	1.26649943	0.340846
PCDH19	85.85010847	108.7072759	1.266245061	0.340557
ATF5	147.4860838	186.71097	1.265956524	0.340228
CAPN15	236.6381195	299.5673785	1.265930355	0.340198
SMC5	1844.67669	2335.131865	1.265875954	0.340136
LRRC14	209.1220591	264.7146641	1.265838072	0.340093
YBX1P10	30.81798766	39.00184707	1.265554633	0.33977
SSR2	1180.989313	1494.517587	1.265479349	0.339684
RALA	219.0278408	277.1620621	1.265419323	0.339616
CCNJ	157.3918655	199.158368	1.265366335	0.339555
RPS16	1415.426147	1789.935832	1.26459147	0.338671
UTP6	736.3297765	931.0653704	1.264467906	0.33853
MAST3	388.526773	491.2573078	1.26441044	0.338465
ECI2	851.8972302	1077.11484	1.264371807	0.338421
RAPGEFL1	143.0835141	180.9021843	1.264311863	0.338352
TMED2	2293.738796	2899.413908	1.264055835	0.33806
UQCC6	74.84368431	94.6002248	1.26397071	0.337963
LCOR	965.2633991	1219.845004	1.263743145	0.337703
MKS1	159.5931504	201.6478476	1.263511919	0.337439
RESF1	2991.546087	3779.030033	1.263236441	0.337125
IER2	125.4732355	158.4968679	1.263192643	0.337075
PPM1B	138.6809445	175.0933985	1.262562778	0.336355
ZNF430	141.9828717	179.2425312	1.262423622	0.336196
ARHGAP35	4449.897289	5617.095804	1.262297855	0.336052
UBALD1	462.2698148	583.368053	1.261964407	0.335671
CCM2	374.2184215	472.1712975	1.261753218	0.33543
DANCR	57.23340565	72.1949084	1.261412065	0.33504
STX6	299.3747372	377.5710727	1.261198845	0.334796
PPP2R5A	423.7473303	534.4082875	1.261148447	0.334738
TDRP	121.0706658	152.6880821	1.261148447	0.334738
TEAD2	312.5824462	394.1676033	1.261003643	0.334572
ROGDI	63.83726015	80.49317374	1.2609121	0.334468
NUDT3	150.788011	190.0302761	1.260247913	0.333708
MRPS34	301.5760221	380.0605523	1.260247913	0.333708
MYNN	331.2933673	417.4027463	1.259918814	0.333331
ZNF628	83.64882364	105.3879697	1.259885856	0.333293
CSNK2A1	1933.828725	2436.370702	1.259868917	0.333274
LSM5	93.55460539	117.8353677	1.259535725	0.332892
HEY2	110.0642416	138.5810311	1.259092227	0.332384
PODXL2	289.4689555	364.2938481	1.258490215	0.331694
YEATS2	1463.854414	1842.214904	1.258468661	0.331669
LETM1	308.1798766	387.5289911	1.257476625	0.330532
CEP350	3209.473286	4034.616605	1.257096179	0.330095
NUP133	1220.61244	1534.34926	1.257032298	0.330022
KCNK5	165.0963624	207.4566333	1.256579069	0.329501
TSSK3	19.81156349	24.894796	1.256579069	0.329501
C12orf60	19.81156349	24.894796	1.256579069	0.329501
ENSG000002	9.905781747	12.447398	1.256579069	0.329501
RTL1	9.905781747	12.447398	1.256579069	0.329501
C1QTNF3-AM	9.905781747	12.447398	1.256579069	0.329501
TIGD7	416.0428334	522.790716	1.256579069	0.329501
H1-5	46.22698148	58.08785734	1.256579069	0.329501
PARL	23.11349074	29.04392867	1.256579069	0.329501
FOXL2NB	23.11349074	29.04392867	1.256579069	0.329501
ENSG000002	23.11349074	29.04392867	1.256579069	0.329501
SLC36A1	323.5888704	406.6150013	1.256579069	0.329501
PLLP	33.01927249	41.49132667	1.256579069	0.329501
C1orf122	33.01927249	41.49132667	1.256579069	0.329501
ETV2	16.50963624	20.74566333	1.256579069	0.329501
NIPA2	16.50963624	20.74566333	1.256579069	0.329501
GSTZ1	145.284799	182.5618373	1.256579069	0.329501
MAGEC2	6.603854498	8.298265334	1.256579069	0.329501
FGL1	6.603854498	8.298265334	1.256579069	0.329501
DLX2	6.603854498	8.298265334	1.256579069	0.329501
NACA3P	6.603854498	8.298265334	1.256579069	0.329501
NPFFR1	6.603854498	8.298265334	1.256579069	0.329501
NAP1L4P1	6.603854498	8.298265334	1.256579069	0.329501
CAPZA3	6.603854498	8.298265334	1.256579069	0.329501
CPSF4L	6.603854498	8.298265334	1.256579069	0.329501
SLC23A3	6.603854498	8.298265334	1.256579069	0.329501
TMEM30A-D	6.603854498	8.298265334	1.256579069	0.329501
KLF7-IT1	6.603854498	8.298265334	1.256579069	0.329501
DNAAF4	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501

RIMBP3	15.40899383	11.11172731	0.72111959	-0.47169
ENSG000002	15.40899383	11.11172731	0.72111959	-0.47169
TBX21	7.704496914	5.555863657	0.72111959	-0.47169
KREMEN2	7.704496914	5.555863657	0.72111959	-0.47169
IL6	7.704496914	5.555863657	0.72111959	-0.47169
GLYAT	7.704496914	5.555863657	0.72111959	-0.47169
FCGR3B	7.704496914	5.555863657	0.72111959	-0.47169
OR5AN1	7.704496914	5.555863657	0.72111959	-0.47169
UBE2U	7.704496914	5.555863657	0.72111959	-0.47169
ALKAL2	7.704496914	5.555863657	0.72111959	-0.47169
LRRC72	7.704496914	5.555863657	0.72111959	-0.47169
ENSG000002	7.704496914	5.555863657	0.72111959	-0.47169
ARHGEF38-I	7.704496914	5.555863657	0.72111959	-0.47169
KRT8P33	7.704496914	5.555863657	0.72111959	-0.47169
ENSG000002	7.704496914	5.555863657	0.72111959	-0.47169
ORMDL2	226.7323378	163.3423915	0.720419474	-0.473091
INTS7	783.6574004	564.4757476	0.720309343	-0.473311
LCAT	172.8008594	124.4513459	0.720200966	-0.473529
ZNF480	395.1306275	284.4602192	0.719914376	-0.474103
CPXM2	514.0000084	370.0205196	0.719884268	-0.474163
CALM2	862.9036544	621.1455569	0.719831877	-0.474268
RPLP0	3056.48399	2200.122008	0.719821211	-0.474289
JMJD1C	10888.65542	7837.101275	0.719749222	-0.474434
PIAS2	881.6145755	634.4796297	0.719679152	-0.474574
PABPC1	25117.76058	18076.558	0.719672358	-0.474588
RSU1	830.9850243	597.8109295	0.719400365	-0.475133
ZCCHC8	707.7130737	508.917111	0.719100904	-0.475734
ZC3HAV1	1407.72165	1012.278358	0.719089856	-0.475756
TTC33	217.9271984	156.6753551	0.718934379	-0.476068
ZNF423	890.4197148	640.0354933	0.718802024	-0.476334
MSH3	893.721642	642.2578388	0.718632971	-0.476673
NDUFAF7	374.2184215	268.903801	0.718574462	-0.47679
RARRES2	187.1092108	134.4519005	0.718574462	-0.47679
PTP4A2	870.6081513	625.5902478	0.718566954	-0.476806
PALB2	694.5053647	498.9165564	0.718376822	-0.477187
GTPBP1	728.6252796	523.3623565	0.718287398	-0.477367
PTPN3	1216.20987	873.3817669	0.718117644	-0.477708
LGR4	994.9807443	714.4840663	0.718088335	-0.477767
SCNM1	156.2912231	112.2284459	0.718072606	-0.477798
ZNF467	205.8201318	147.7859733	0.718034587	-0.477875
GPRASP2	297.1734524	213.3451644	0.717914614	-0.478116
CDC40	346.7023611	248.9026918	0.717914614	-0.478116
ARL4A	49.52890873	35.55752741	0.717914614	-0.478116
SLC30A1	662.5867346	475.5819291	0.717765546	-0.478415
ANTXR2	2113.233439	1516.750778	0.717739342	-0.478468
CCDC158	140.8822293	101.1167186	0.717739342	-0.478468
KIF2A	822.179885	590.0327204	0.717644315	-0.478659
CREBL2	182.7066411	131.1183823	0.717644315	-0.478659
CNST	559.1263475	401.133356	0.717428821	-0.479092
B4GALT6	151.8886534	108.8949277	0.716939187	-0.480077
ZNF746	296.07281	212.2339917	0.716830403	-0.480296
NUAK1	330.1927249	236.6797918	0.716792873	-0.480372
ADAMTS3	178.3040714	127.7848641	0.716668235	-0.480623
SDE2	527.2077174	377.7987287	0.716603184	-0.480754
SND1	3090.603905	2214.567254	0.71654839	-0.480864
PHYHIPL	34.11991491	24.44580009	0.716467206	-0.481027
ANKRD13C	409.4389789	293.3496011	0.716467206	-0.481027
CNOT6L	920.13706	658.9254297	0.716116607	-0.481734
RAD54L2	760.5439097	544.4746384	0.715901648	-0.482167
HDAC3	423.7473303	303.3501557	0.715875084	-0.48222
TRMT10A	208.0214167	148.897146	0.715777964	-0.482416
HIRIP3	147.4860838	105.5614095	0.715738101	-0.482496
BTN3A3	461.1691724	330.0183012	0.715612233	-0.48275
R3HCC1	200.3169198	143.3412824	0.715572516	-0.48283
PFKP	1028.000017	735.5963482	0.715560638	-0.482854
FBXO22	332.3940097	237.7909645	0.715388838	-0.4832
COMMD10	211.3233439	151.1194915	0.71511026	-0.483762
PSME2	52.83083598	37.77987287	0.71511026	-0.483762
KIF17	52.83083598	37.77987287	0.71511026	-0.483762
MTF2	554.7237778	396.6886651	0.71511026	-0.483762
NME9	26.41541799	18.88993643	0.71511026	-0.483762
UBALD2	547.0192809	391.1328015	0.715025622	-0.483933
POC1B	286.1670282	204.4557826	0.714463102	-0.485069
EED	368.7152095	263.3479374	0.714231284	-0.485537
TMEM182	45.12633907	32.22400921	0.714084277	-0.485834
PLEKHA8	270.7580344	193.3440553	0.714084277	-0.485834
PDE4B	578.937911	413.3562561	0.713990651	-0.486023
TSN	289.4689555	206.678128	0.713990651	-0.486023
CHURC1	108.9635992	77.7820912	0.713835554	-0.486336
RCCD1	63.83726015	45.55808199	0.713659732	-0.486692
POLR2A	63.83726015	45.55808199	0.713659732	-0.486692
EFCAB12	127.6745203	91.11616398	0.713659732	-0.486692
FBXL3	758.3426248	541.1411202	0.713583943	-0.486845
CYRIB	626.2655349	446.691438	0.713262048	-0.487496
TARS1	1259.134924	897.827567	0.713051119	-0.487923
PHLDB1	1299.858694	926.718058	0.712937539	-0.488152
WASF2	2006.471125	1430.079305	0.712733559	-0.488565
PABPC1P4	37.42184215	26.66814555	0.71263583	-0.488763
TCEAL7	18.71092108	13.33407278	0.71263583	-0.488763
ANG	18.71092108	13.33407278	0.71263583	-0.488763
ATP5MG	93.55460539	66.67036389	0.71263583	-0.488763
LAMP5	56.13276323	40.00221833	0.71263583	-0.488763
PDCD10	890.4197148	634.4796297	0.712562423	-0.488912
DENND2D	478.7794511	341.1300286	0.71249931	-0.489039
DLG3	639.4732439	455.5808199	0.712431402	-0.489177
PPP2R2D	620.7623228	442.2467471	0.712425241	-0.489189
PGPEP1	291.6702403	207.7893008	0.712411731	-0.489217
CSTF3	619.6616804	441.1355744	0.711897457	-0.490259
RPL23A	2231.002178	1587.865833	0.711727603	-0.490603
FCHO1	67.13918739	47.78042745	0.711662284	-0.490735
RIOK3	462.2698148	328.9071285	0.711504662	-0.491055
LINC00294	32.3632348	20.00110917	1.618072005	0.694276
ELAVL1	2335.961691	1444.524551	1.617114565	0.693422
PBRM1	3433.822195	2123.45109	1.617095026	0.693404
SPRY1	195.8390619	121.1178277	1.616930105	0.693257
SAP130	1623.970526	1004.500149	1.616695156	0.693048
KIF5B	9513.131379	5885.881958	1.616262685	0.692662
TUBD1	296.2480724	183.3435007	1.615808967	0.692257
CLIC4	1581.649373	978.9431764	1.615670256	0.692133
GPN3	319.4832153	197.7887462	1.615274992	0.69178
RPL11	7021.162299	4348.018898	1.614795718	0.691352
NCBP2	697.8841146	432.2461925	1.61455237	0.691134
CHMP4B	1230.632749	762.2644938	1.614443227	0.691037
ROCK2	3914.291758	2424.5789	1.614421275	0.691017
AP3S1	177.5828781	110.0061004	1.614300275	0.690909
ENHO	55.59837774	34.44635467	1.614056938	0.690691
KMT5B	2861.241887	1773.431679	1.613392791	0.690098
NBDY	380.0605523	235.5686191	1.613375134	0.690082
TMEM176B	44.8106328	27.77931829	1.613093321	0.68983
STARD9	1044.751606	647.8137024	1.612734651	0.689509
IFT74	360.1447155	223.345719	1.612498852	0.689298
PIBF1	270.5234499	167.7870824	1.612302008	0.689122
DDX3X	6406.260838	3973.553688	1.612224558	0.689053
ENSG000002	34.02288787	21.1122819	1.611521106	0.688423
PLEKHG3	499.5555731	310.0171921	1.611380226	0.688297
SETD3	2361.686314	1465.636833	1.611372109	0.68829
PPP6C	1637.24775	1016.723049	1.610318318	0.687346
TAF11	538.5574202	334.4629922	1.610215279	0.687254
ENSG000002	80.49317374	50.00277291	1.609774199	0.686858
RASGEF1B	207.4566333	128.8960368	1.609488068	0.686602
ZCCHC10	150.1986025	93.33850944	1.609181499	0.686327
ZNF19	150.1986025	93.33850944	1.609181499	0.686327
WASF2	2301.108977	1430.079305	1.60907788	0.686234
ATP6V1B2	1081.263973	672.2595025	1.608402661	0.685629
RPL13A	757.631625	471.1372381	1.608091154	0.685349
PRKX	234.0110824	145.5636278	1.607620571	0.684927
SIN3A	3998.104238	2487.915746	1.6070095	0.684378
CLTA	1023.176116	636.7019751	1.606993783	0.684364
TMEM60	58.91768387	36.66870014	1.606756816	0.684152
KYNU	71.36508187	44.44690926	1.605625297	0.683135
PRIM2	824.0177476	513.3618019	1.60514036	0.682699
VASH1	167.6249597	104.4502368	1.604830826	0.682421
WARS2	395.8272564	246.6803464	1.604616104	0.682228
RBM41	588.3470122	366.6870014	1.604493778	0.682118
CCNY	1206.56778	752.2639392	1.603915483	0.681598
MFAP3	326.1218276	203.3446099	1.603788897	0.681484
DPH3	169.2846128	105.5614095	1.603660027	0.681368
PSPC1	1176.694024	734.4851755	1.602066405	0.679934
SPOPL	380.8903788	237.7909645	1.601786593	0.679682
RPL24	2128.505058	1328.962587	1.601629029	0.67954
PSMC1	765.1000638	477.8042745	1.601283422	0.679229
RSL1D1	1698.654914	1061.169959	1.600737846	0.678737
ENSAP2	49.789592	31.11283648	1.600290994	0.678334
ENSG000002	37.342194	23.33462736	1.600290994	0.678334
MEPCE	12.447398	7.77820912	1.600290994	0.678334
DDX50P2	12.447398	7.77820912	1.600290994	0.678334
NSUN5P1	12.447398	7.77820912	1.600290994	0.678334
AHCTF1P1	460.553726	287.7937374	1.600290994	0.678334
RB1CC1	4240.413586	2651.258137	1.599396726	0.677528
FUBP1	4654.497026	2910.161384	1.599394814	0.677526
ANKRD40	828.1668803	517.8064929	1.599375233	0.677508
RPS7	1206.56778	754.4862846	1.599191137	0.677342
ZNF493	742.6947474	464.4702017	1.599014844	0.677183
ARHGAP24	277.1620621	173.3429461	1.598923223	0.677101
RBMX	2686.148489	1680.09317	1.598809243	0.676998
MORF4L1	1350.12777	844.4912759	1.598746853	0.676942
DDX10	291.2691132	182.232328	1.598339419	0.676574
MAP3K9	772.5685026	483.3601382	1.598328951	0.676564
TDP2	950.1513807	594.4774113	1.598296861	0.676535
SCRN3	456.4045934	285.571392	1.598215389	0.676462
MAP3K13	536.0679406	335.5741649	1.597464873	0.675784
COL5A1	791.6545128	495.5830382	1.597420516	0.675744
CTC-338M1	127.7932861	80.00443666	1.597327492	0.67566
RBM3	702.8630738	440.0244016	1.597327492	0.67566
TRIO	8672.5171	5430.301139	1.597060067	0.675419
SLC27A2	102.8984901	64.44801842	1.596612164	0.675014
PDE6B	51.44924507	32.22400921	1.596612164	0.675014
GPX8	51.44924507	32.22400921	1.596612164	0.675014
NUP62	1238.101188	775.5985665	1.596317014	0.674747
CIR1	633.157645	396.6886651	1.596107226	0.674558
WDR36	711.1613391	445.5802653	1.596034193	0.674492
RGPD5	168.4547863	105.5614095	1.595798949	0.674279
ARL15	156.0073883	97.78320037	1.595441627	0.673956
SNRPB	574.2399611	360.019965	1.595022546	0.673577
DYRK2	407.4448279	255.5697282	1.594260912	0.672888
RAC1	697.8841146	437.8020562	1.594063127	0.672709
CCT7	1755.083118	1101.172177	1.593831696	0.672499
SUCLG1	1136.862351	713.3728936	1.593643887	0.672329
SLC25A51	304.5463377	191.1217098	1.593468047	0.67217
ETFA	862.1897682	541.1411202	1.593280821	0.672001
RILPL2	79.6633472	50.00277291	1.593178589	0.671908
SDHAF4	53.10889814	33.33518194	1.593178589	0.671908
SYCE2	26.55444907	16.66759097	1.593178589	0.671908
NSD2	2534.290233	1591.199351	1.592691846	0.671467
IRAK3	173.4337455	108.8949277	1.59267056	0.671448
EID1	769.2491964	483.3601382	1.591461802	0.670353
FKBP4	1274.613555	801.1555394	1.59096891	0.669906
STK38	1210.716912	761.153321	1.590634736	0.669603
WDR82	858.870462	540.0299475	1.590412654	0.669401
AGGF1	68.87560227	43.33573653	1.589348833	0.668436
ENPP1	234.8409089	147.7859733	1.589060881	0.668174
RPSA	1189.971249	748.930421	1.588894262	0.668023
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
ENSG000002	6.603854498	8.298265334	1.256579069	0.329501
SZRD1	3.301927249	4.149132667	1.256579069	0.329501
KCNA7	3.301927249	4.149132667	1.256579069	0.329501
SLC5A5	3.301927249	4.149132667	1.256579069	0.329501
HSD17B1P1	3.301927249	4.149132667	1.256579069	0.329501
CACNG1	3.301927249	4.149132667	1.256579069	0.329501
WNT6	3.301927249	4.149132667	1.256579069	0.329501
SLC46A2	3.301927249	4.149132667	1.256579069	0.329501
OR1E2	3.301927249	4.149132667	1.256579069	0.329501
KCNA5	3.301927249	4.149132667	1.256579069	0.329501
MMP20	3.301927249	4.149132667	1.256579069	0.329501
DPEP3	3.301927249	4.149132667	1.256579069	0.329501
AHSG	3.301927249	4.149132667	1.256579069	0.329501
GFRA3	3.301927249	4.149132667	1.256579069	0.329501
CD1B	3.301927249	4.149132667	1.256579069	0.329501
ST6GALNAC	3.301927249	4.149132667	1.256579069	0.329501
PRR35	3.301927249	4.149132667	1.256579069	0.329501
MSLNL	3.301927249	4.149132667	1.256579069	0.329501
TMEM52B	3.301927249	4.149132667	1.256579069	0.329501
LDHAL6A	3.301927249	4.149132667	1.256579069	0.329501
TRIM49	3.301927249	4.149132667	1.256579069	0.329501
HOXD12	3.301927249	4.149132667	1.256579069	0.329501
PATE1	3.301927249	4.149132667	1.256579069	0.329501
KRT9	3.301927249	4.149132667	1.256579069	0.329501
APOBEC4	3.301927249	4.149132667	1.256579069	0.329501
ENSG000001	3.301927249	4.149132667	1.256579069	0.329501
H2AC25	3.301927249	4.149132667	1.256579069	0.329501
TMEM212	3.301927249	4.149132667	1.256579069	0.329501
KRTAP24-1	3.301927249	4.149132667	1.256579069	0.329501
ADRB3	3.301927249	4.149132667	1.256579069	0.329501
POTEA	3.301927249	4.149132667	1.256579069	0.329501
PATE2	3.301927249	4.149132667	1.256579069	0.329501
SHPK	3.301927249	4.149132667	1.256579069	0.329501
SNORD104	3.301927249	4.149132667	1.256579069	0.329501
NELFE	3.301927249	4.149132667	1.256579069	0.329501
KRTAP5-10	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
RNU6-611P	3.301927249	4.149132667	1.256579069	0.329501
GOT2P6	3.301927249	4.149132667	1.256579069	0.329501
NPIPA8	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
PDK1-AS1	3.301927249	4.149132667	1.256579069	0.329501
ACKR4P1	3.301927249	4.149132667	1.256579069	0.329501
CACTIN-AS1	3.301927249	4.149132667	1.256579069	0.329501
CYCSP24	3.301927249	4.149132667	1.256579069	0.329501
ITPKB-IT1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
MRPS18AP1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
RPEP3	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
DEPDC1P2	3.301927249	4.149132667	1.256579069	0.329501
IDI2-AS1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
PPIAP3	3.301927249	4.149132667	1.256579069	0.329501
NKX1-1	3.301927249	4.149132667	1.256579069	0.329501
BHLHE40-AS	3.301927249	4.149132667	1.256579069	0.329501
RPL26P30	3.301927249	4.149132667	1.256579069	0.329501
POU5F1P5	3.301927249	4.149132667	1.256579069	0.329501
EEF1A1P30	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
LINC01391	3.301927249	4.149132667	1.256579069	0.329501
DMXL1-DT	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
OSGEPL1-AS	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
NAP1L1P1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
PHLDA1-AS1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
MIR3115	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
LINC03049	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
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ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
SFTPD-AS1	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
ENSG000002	3.301927249	4.149132667	1.256579069	0.329501
COA8	85.85010847	107.8774493	1.256579069	0.329501

TRIM22	577.8372686	411.1339106	0.711504662	-0.491055
CPSF7	1427.533214	1015.611877	0.711445357	-0.491175
TNPO3	1140.265543	811.1560939	0.711374731	-0.491318
ZBTB7A	1412.12422	1004.500149	0.711339792	-0.491389
TMEM268	223.4304105	158.8977006	0.711173113	-0.491727
APLF	175.0021442	124.4513459	0.711141835	-0.491791
ZRSR2	282.865101	201.1222644	0.711018304	-0.492041
RRAGB	390.7280578	277.7931829	0.710962976	-0.492154
CHTOP	390.7280578	277.7931829	0.710962976	-0.492154
POLR3H	293.8715252	208.9004735	0.710856465	-0.49237
PRKAG2	1127.057834	801.1555394	0.710838002	-0.492407
VPS50	661.4860922	470.0260654	0.710560768	-0.49297
MAP3K7	880.513933	625.5902478	0.710483076	-0.493128
ZNF619	237.7387619	168.8982552	0.710436337	-0.493223
MIR3667HG	29.71734524	21.1122819	0.710436337	-0.493223
MBD4	753.9400552	535.5852566	0.710381751	-0.493334
MIA2	1005.987168	714.4840663	0.710231789	-0.493638
TMEM260	679.0963709	482.2489654	0.710133327	-0.493838
MLH1	931.1434842	661.1477752	0.710038556	-0.494031
AVL9	611.9571835	434.468538	0.709965582	-0.494179
SSR3	967.4646839	686.704748	0.709798259	-0.494519
DCUN1D1	729.725922	517.8064929	0.709590378	-0.494942
SLC25A30	192.6124229	136.674246	0.709581677	-0.494959
KANSL1L	1707.096388	1211.178277	0.709496128	-0.495133
PDHX	358.8094277	254.4585555	0.709174664	-0.495787
NF2	943.2505508	668.9259843	0.709171051	-0.495794
UCP2	310.3811614	220.0122008	0.708845214	-0.496457
CYB5B	155.1905807	110.0061004	0.708845214	-0.496457
NLRC5	476.5781663	337.7965104	0.708795606	-0.496558
CEP57	479.8800935	340.0188558	0.708549616	-0.497059
GFM2	490.8865177	347.7970649	0.708508082	-0.497144
SEPTIN1	73.74304189	52.22511838	0.708204015	-0.497763
GRIP1	305.9785917	216.6786826	0.708149813	-0.497873
ANXA6	1249.229142	884.4934942	0.708031428	-0.498115
BICRAL	1852.381187	1311.183823	0.707836936	-0.498511
SNRPA	500.7922994	354.4641013	0.707806613	-0.498573
GNL2	1141.366186	807.8225758	0.707768099	-0.498651
GMFB	117.7687385	83.33795486	0.707640719	-0.498911
FANCL	268.5567496	190.0105371	0.707524713	-0.499148
MSANTD2	268.5567496	190.0105371	0.707524713	-0.499148
SAMD15	183.8072835	130.0072096	0.70730173	-0.499602
FGFR2	1146.869398	811.1560939	0.707278523	-0.49965
ZNF302	595.4475472	421.1344652	0.707257032	-0.499693
TRPM7	2208.98933	1562.30886	0.707250524	-0.499707
SLC1A1	205.8201318	145.5636278	0.707237074	-0.499734
RINT1	433.653112	306.6836739	0.707209669	-0.49979
OSBPL8	2204.58676	1558.975342	0.707150823	-0.49991
SCRN3	403.9357668	285.571392	0.706972285	-0.500274
MTCL1	403.9357668	285.571392	0.706972285	-0.500274
ICE1	2173.768772	1536.751888	0.706952785	-0.500314
AAGAB	748.4368431	528.9182202	0.706697198	-0.500836
RFC3	66.03854498	46.66925472	0.706697198	-0.500836
IL17RE	66.03854498	46.66925472	0.706697198	-0.500836
UBQLNL	33.01927249	23.33462736	0.706697198	-0.500836
ATP6V1FNB	33.01927249	23.33462736	0.706697198	-0.500836
ATP2C2	352.2055732	248.9026918	0.706697198	-0.500836
SNX10	77.04496914	54.44746384	0.706697198	-0.500836
VMA21	220.1284833	155.5641824	0.706697198	-0.500836
ANKRD54	55.03212081	38.8910456	0.706697198	-0.500836
PMFBP1	55.03212081	38.8910456	0.706697198	-0.500836
KCNN3	55.03212081	38.8910456	0.706697198	-0.500836
ASMTL	55.03212081	38.8910456	0.706697198	-0.500836
EIF2S2P4	44.02569665	31.11283648	0.706697198	-0.500836
ADPRH	44.02569665	31.11283648	0.706697198	-0.500836
KLK15	22.01284833	15.55641824	0.706697198	-0.500836
C6orf141	22.01284833	15.55641824	0.706697198	-0.500836
ENSG000002	22.01284833	15.55641824	0.706697198	-0.500836
TLDC2	11.00642416	7.77820912	0.706697198	-0.500836
CIB3	11.00642416	7.77820912	0.706697198	-0.500836
GPR15	11.00642416	7.77820912	0.706697198	-0.500836
GRIA1	11.00642416	7.77820912	0.706697198	-0.500836
HTR4	11.00642416	7.77820912	0.706697198	-0.500836
DSG4	11.00642416	7.77820912	0.706697198	-0.500836
RMI2	11.00642416	7.77820912	0.706697198	-0.500836
CNBD1	11.00642416	7.77820912	0.706697198	-0.500836
KCTD16	11.00642416	7.77820912	0.706697198	-0.500836
ENSG000002	11.00642416	7.77820912	0.706697198	-0.500836
RAD21L1	11.00642416	7.77820912	0.706697198	-0.500836
KIF23-AS1	11.00642416	7.77820912	0.706697198	-0.500836
ATXN7L3-AS	11.00642416	7.77820912	0.706697198	-0.500836
CYBB	545.9186385	385.5769378	0.706290115	-0.501667
TPMT	457.8672452	323.3512648	0.706211829	-0.501827
RPL23	2195.781621	1550.08596	0.705938125	-0.502386
MCM4	428.1498999	302.238983	0.705918612	-0.502426
EIF3H	2858.368355	2016.778508	0.705569842	-0.503139
ACTR3	2671.259144	1883.43778	0.705074902	-0.504152
DCUN1D5	244.3426164	172.2317734	0.704878158	-0.504554
OTULINL	361.0107125	254.4585555	0.704850429	-0.504611
ERBB3	2643.743084	1863.436671	0.704847866	-0.504616
THUMPD1	1247.027858	878.9376306	0.704825979	-0.504661
WDFY4	338.9978642	238.9021373	0.704730509	-0.504856
CPEB3	386.3254881	272.2373192	0.704683816	-0.504952
XPO1	4650.214209	3276.848385	0.704666116	-0.504988
G2E3	539.314784	380.0210742	0.704636857	-0.505048
ERN1	742.933631	523.3623565	0.704453715	-0.505423
MBNL3	549.2205657	386.6881105	0.704067063	-0.506215
MEX3B	167.2976473	117.7843095	0.704040442	-0.50627
MRPS22	370.9164943	261.1255919	0.704001024	-0.506351
PRPF18	541.5160688	381.1322469	0.703824446	-0.506712
DRC3	108.9635992	76.67091847	0.703637903	-0.507095
H2BC17	72.64239948	51.11394565	0.703637903	-0.507095
GABPA	836.4651456	526.6958747	1.588136885	0.667335
NPM2	28.21410213	17.7787637	1.586955235	0.666261
RHOQP2	28.21410213	17.7787637	1.586955235	0.666261
AVPI1	14.10705107	8.889381852	1.586955235	0.666261
TRIM72	14.10705107	8.889381852	1.586955235	0.666261
MROH7	14.10705107	8.889381852	1.586955235	0.666261
EXOC3L4	14.10705107	8.889381852	1.586955235	0.666261
TRMT5	479.6397363	302.238983	1.586955235	0.666261
ENSG000002	42.3211532	26.66814555	1.586955235	0.666261
ZNF354B	352.6762767	222.2345463	1.586955235	0.666261
ZNF283	296.2480724	186.6770189	1.586955235	0.666261
ZBTB10	3496.059185	2203.455526	1.586625708	0.665962
MYL6B	185.0513169	116.6731368	1.586066185	0.665453
PABPC4	2037.224139	1284.515678	1.585986201	0.66538
HMG20A	200.8180211	126.6736914	1.585317511	0.664772
PPT1	2182.443783	1376.743014	1.58522234	0.664685
PGBD2	258.9058784	163.3423915	1.585050127	0.664528
GRIN2C	58.08785734	36.66870014	1.584126438	0.663687
WNK1	12230.81328	7721.539311	1.583986403	0.66356
LRRC3	146.0494699	92.22733671	1.583581128	0.663191
BRCC3	545.1960324	344.4635467	1.582739415	0.662424
COX7A2L	887.9143907	561.1422294	1.582333933	0.662054
INTS14	534.4082875	337.7965104	1.582042061	0.661788
RNF170	416.5729197	263.3479374	1.581834754	0.661599
MILR1	29.8737552	18.88993643	1.581464041	0.661261
GLCE	600.7944102	380.0210742	1.580950245	0.660792
ATP5MG	105.3879697	66.67036389	1.580731881	0.660593
NCF2	151.0284291	95.5608549	1.580442423	0.660328
IFT46	272.1831029	172.2317734	1.580330375	0.660226
TPR	8370.460242	5296.960411	1.5802384	0.660142
FAM185A	121.1546739	76.67091847	1.58019072	0.660099
SLX4IP	287.9498071	182.232328	1.580124725	0.660038
DCUN1D2	166.7951332	105.5614095	1.580076791	0.659995
ISG20L2	789.9948598	500.0277291	1.579902101	0.659835
ZBED5	991.6427074	627.8125933	1.579520255	0.659486
DIMT1	382.5500319	242.2356555	1.579247412	0.659237
FBXO28	508.683665	322.2400921	1.578585897	0.658633
CHMP4C	540.2170732	342.2412013	1.578468844	0.658526
MR1	201.6478476	127.7848641	1.578026075	0.658121
PDK3	948.4917276	601.1444477	1.577810011	0.657923
CPSF7	1602.395036	1015.611877	1.577763192	0.657881
ACBD5	1170.885239	742.2633846	1.577452509	0.657597
CDC34	471.341471	298.9054648	1.576891447	0.657083
SAP30	126.1336331	80.00443666	1.576582979	0.656801
PWP2	31.53340827	20.00110917	1.576582979	0.656801
CHST13	15.76670413	10.00055458	1.576582979	0.656801
CSF3R	173.4337455	110.0061004	1.576582979	0.656801
PM20D2	477.9800832	303.3501557	1.575671132	0.655966
CDK4	418.2325728	265.5702828	1.574847036	0.655212
MRPL35	321.9726949	204.4557826	1.574779108	0.655149
FBLN2	3085.295051	1960.108698	1.574042834	0.654475
TMEM108	113.6862351	72.22622754	1.574029808	0.654463
TFG	1889.515016	1201.177723	1.573051998	0.653566
IMPACT	281.3111948	178.8988098	1.572459846	0.653023
PAK2	1804.87271	1147.841432	1.572405962	0.652974
TPD52L1	66.38612267	42.22456379	1.572215713	0.652799
BEND3	216.5847252	137.7854187	1.571898734	0.652508
USP9X	14692.07877	9349.407362	1.571444927	0.652092
SEPTIN2	4360.738433	2775.709483	1.571035607	0.651716
SHMT2	340.2288787	216.6786826	1.570200052	0.650948
ELOA	936.8741562	596.6997568	1.570093075	0.65085
GAN	238.9900416	152.2306642	1.569920508	0.650692
FHL2	85.47213294	54.44746384	1.56980926	0.650589
ORMDL2	256.4163988	163.3423915	1.56980926	0.650589
ZNG1B	530.2591548	337.7965104	1.569759126	0.650543
PSME4	5468.556855	3484.637686	1.569332983	0.650151
TBPL1	172.6039189	110.0061004	1.56903952	0.649882
SVOP	34.8527144	22.22345463	1.568285174	0.649188
GPC5	17.4263572	11.11172731	1.568285174	0.649188
ENSG000002	17.4263572	11.11172731	1.568285174	0.649188
RNF24	193.3495823	123.3401732	1.567612379	0.648569
STRN3	1779.977914	1135.618532	1.567408302	0.648381
BTG2	670.499839	427.8015016	1.5673153	0.648295
XPR1	1626.460005	1037.835331	1.56716577	0.648158
ZBTB11	1770.849822	1130.062668	1.567036831	0.648039
VPS4B	892.8933499	570.0316112	1.566392692	0.647446
RBBP9	304.5463377	194.455228	1.566151452	0.647224
ZNF749	483.788869	308.9060193	1.566136102	0.64721
EBF1	233.1812559	148.897146	1.566055913	0.647136
KCND3	431.5097974	275.5708374	1.565876133	0.64697
NEXN	53.93872467	34.44635467	1.565876133	0.64697
RPL27A	1781.637567	1137.840877	1.565805556	0.646905
TNFAIP1	290.4392867	185.5658462	1.565154864	0.646305
ENSG000002	36.51236747	23.33462736	1.564728971	0.645913
TOR1A	992.4725339	634.4796297	1.564230729	0.645453
TPPP3	55.59837774	35.55752741	1.563617658	0.644888
ARHGAP5	8266.731925	5286.959856	1.563607848	0.644879
MYO1D	4878.55019	3120.17303	1.563551169	0.644826
MGA	3422.204624	2189.010281	1.563357036	0.644647
ADK	503.7047058	322.2400921	1.563134812	0.644442
ZNF449	206.6268068	132.229555	1.562637088	0.643983
COA5	244.7988273	156.6753551	1.562459055	0.643818
ING3	170.1144393	108.8949277	1.562188827	0.643569
MCFD2	359.3148889	230.0127554	1.562152013	0.643535
LRRC37B	397.4869095	254.4585555	1.562088996	0.643477
FN3KRP	341.8885317	218.9010281	1.561840685	0.643247
COL6A3	4447.870219	2847.935711	1.561787439	0.643198
PTGR3	494.5766139	316.6842285	1.561734275	0.643149
FUS	5882.640295	3766.87556	1.561676302	0.643095
PDP1	1370.873433	877.8264578	1.561667937	0.643088
PCYOX1L	133.6020719	85.56030032	1.56149606	0.642929
SHISA4	112.2655265	141.0705107	1.256579069	0.329501
TRABD2A	13.207709	16.59653067	1.256579069	0.329501
DDO	13.207709	16.59653067	1.256579069	0.329501
RPL24P8	13.207709	16.59653067	1.256579069	0.329501
ZNF518B	1332.877966	1674.589944	1.256371541	0.329263
PRUNE1	378.6209912	475.4906036	1.255848499	0.328662
ZNF275	259.7516102	326.1218276	1.255514171	0.328278
ANKS1B	509.5974387	639.7962572	1.255493471	0.328255
COQ7	249.8458285	313.6744296	1.25547195	0.32823
HSD17B12	380.822276	477.9800832	1.255126376	0.327833
TFB2M	190.411138	238.9900416	1.255126376	0.327833
THAP12	1391.212014	1745.955026	1.254988462	0.327674
OXSM	173.9015018	218.2443783	1.254988462	0.327674
DYRK1A	2659.152078	3335.902664	1.25449864	0.327111
FAM117B	490.8865177	615.7312878	1.254325115	0.326911
INTU	313.6830886	393.3377768	1.253933639	0.326461
SAMD4B	662.5867346	830.6563599	1.253656792	0.326142
SFI1	342.2997915	429.0203178	1.253346711	0.325786
DNAJB6P1	81.44753881	102.0686636	1.253182909	0.325597
TCN2	74.84368431	93.77039827	1.252883248	0.325252
PMP22	292.7708827	366.7833277	1.252799883	0.325156
FAM234A	650.479668	814.8896558	1.252751924	0.325101
PPP2R2D	620.7623228	777.5474618	1.25256871	0.32489
FBXO28	406.1370516	508.683665	1.252492633	0.324802
SETX	7714.402696	9660.840501	1.252312186	0.324594
KEAP1	577.8372686	723.6087371	1.252270797	0.324547
BEX3	742.933631	930.2355439	1.252111232	0.324363
HECTD1	5422.865185	6789.640696	1.252039367	0.32428
AGBL4	119.9700234	150.1986025	1.251967769	0.324197
SLC35B2	550.3212081	688.7560227	1.251552752	0.323719
CDH5	158.4925079	198.3285415	1.251343322	0.323478
RN7SKP203	51.73019357	64.7264696	1.251231924	0.323349
MADD	1521.087819	1902.792241	1.250941738	0.323015
ORC4	390.7280578	488.7678282	1.250915614	0.322984
ZNF230	145.284799	181.7320108	1.250867346	0.322929
UBXN8	48.42826632	60.57733694	1.250867346	0.322929
TTI1	1055.516077	1320.254015	1.250813742	0.322867
FARP2	796.8651094	996.6216666	1.250678007	0.32271
CTCF	983.9743202	1230.632749	1.250675677	0.322708
PPP2R3A	828.7837395	1036.45334	1.250571519	0.322588
NUDT22	90.25267814	112.8564085	1.250449415	0.322447
ZC2HC1C	45.12633907	56.42820427	1.250449415	0.322447
CHCHD3	309.280519	386.6991645	1.250318532	0.322296
NIT2	260.8522527	326.1218276	1.250216643	0.322178
TMEM127	299.3747372	374.2517665	1.250111382	0.322057
FLG	41.82441182	52.2790716	1.249965495	0.321888
KCNQ1OT1	575.6359837	719.4596044	1.249851685	0.321757
MYPOP	118.869381	148.5389495	1.249598074	0.321464
PHAX	294.9721676	368.4429808	1.249077104	0.320863
ENSG000002	73.74304189	92.1107452	1.249077104	0.320863
MAGED2	916.8351328	1145.160616	1.249036577	0.320816
NR2C1	576.7366261	720.289431	1.248905303	0.320664
PTGES3	679.0963709	848.0827171	1.248840008	0.320589
MYRF	35.22055732	43.98080627	1.248725449	0.320456
SERBP1P1	35.22055732	43.98080627	1.248725449	0.320456
POLR1G	99.05781747	123.6441535	1.248201875	0.319851
PRR13	31.91863007	39.8316736	1.247913006	0.319517
RPL7P9	127.6745203	159.3266944	1.247913006	0.319517
ABHD12	1461.653129	1823.95872	1.247873852	0.319472
HEATR5A	526.107075	656.3927879	1.247641058	0.319203
MSL1	864.0042968	1077.944667	1.247614938	0.319173
LARP1B	490.8865177	612.4119816	1.247563255	0.319113
UBE2G2	570.1327716	711.1613391	1.247360921	0.318879
ZNF614	381.9229185	476.3204302	1.247163779	0.318651
PPP6R1	425.9486151	531.0889814	1.246838146	0.318274
AP1S1	165.0963624	205.7969803	1.246526436	0.317913
TEX9	219.0278408	273.0129295	1.24647592	0.317855
MMRN1	107.8629568	134.4318984	1.24632128	0.317676
ZNF606	672.4925164	838.1247987	1.246296097	0.317647
NCKAP1	2838.556792	3537.550512	1.246249687	0.317593
QRSL1	205.8201318	256.4163988	1.24582759	0.317104
LYPLA2	75.94432672	94.6002248	1.245652294	0.316901
ADNP2	676.895086	843.1037579	1.245545691	0.316778
PIK3R4	1324.072827	1648.865322	1.245298059	0.316491
PYCR2	97.95717505	121.9845004	1.245283976	0.316475
POFUT1	315.8843735	393.3377768	1.245195425	0.316372
EOLA2	141.9828717	176.7530516	1.244889961	0.316018
WDR82	690.102795	858.870462	1.244554388	0.315629
AGPAT3	343.4004339	427.3606647	1.244496578	0.315562
SLC8A1	1530.993601	1905.281721	1.244473993	0.315536
GNA11	717.6188554	892.8933499	1.24424455	0.31527
BDKRB2	22.01284833	27.3842756	1.244013278	0.315002
RPLP0P9	22.01284833	27.3842756	1.244013278	0.315002
ANKRD34A	22.01284833	27.3842756	1.244013278	0.315002
RPL22	213.5246288	265.5444907	1.243624645	0.314551
MRPL57	210.2227015	261.395358	1.243421173	0.314315
BLCAP	347.8030036	432.3396239	1.243058914	0.313895
IDNK	40.7237694	50.61941854	1.24299443	0.31382
EFCAB2	200.3169198	248.94796	1.242770507	0.31356
RMND5B	253.1477557	314.5042561	1.242374262	0.3131
GATD3	171.7002169	213.2654191	1.242080079	0.312758
PLBD2	795.764467	988.3234012	1.24197981	0.312642
TMEM30A	1182.089955	1467.963138	1.241837079	0.312476
A2M-AS1	18.71092108	23.23514293	1.241795785	0.312428
SEPTIN4-AS1	18.71092108	23.23514293	1.241795785	0.312428
PRR7	37.42184215	46.47028587	1.241795785	0.312428
MED19	161.7944352	200.8180211	1.241192386	0.311727
ZNF445	1090.736635	1353.447076	1.24085598	0.311336
EIF2A	1581.623152	1962.539751	1.240839038	0.311316
UGGT1	1655.366194	2053.82067	1.240704732	0.31116
QPCT	102.3597447	126.9634596	1.240365145	0.310765

LIPT2	36.32119974	25.55697282	0.703637903	-0.507095
LINC01088	36.32119974	25.55697282	0.703637903	-0.507095
YIPF5	399.5331971	281.1267011	0.703637903	-0.507095
DHX57	1187.593167	835.601894	0.70360955	-0.507153
DIXDC1	402.8351244	283.3490465	0.703387141	-0.507609
USP10	742.933631	522.2511838	0.70295806	-0.508489
STAU2	1514.483965	1064.503477	0.702881973	-0.508646
RBM41	521.7045053	366.6870014	0.702863398	-0.508684
RPL3P4	86.95075089	61.11450023	0.702863398	-0.508684
TFDP2	796.8651094	560.0310566	0.702792794	-0.508829
MAX	499.691657	351.1305831	0.702694508	-0.50903
POLD3	249.8458285	175.5652916	0.702694508	-0.50903
IL13RA1	1281.147773	900.0499125	0.702534034	-0.50936
CYP2S1	25.31477557	17.7787637	0.702307775	-0.509825
MYLK-AS1	25.31477557	17.7787637	0.702307775	-0.509825
SLC25A35	126.5738779	88.89381852	0.702307775	-0.509825
SYT7	1547.503237	1086.726931	0.702245336	-0.509953
EPC1	1649.862982	1157.841986	0.701780693	-0.510908
UACA	2570.000042	1803.433343	0.701725025	-0.511022
ISCA2	155.1905807	108.8949277	0.701685162	-0.511104
ZNF275	259.7516102	182.232328	0.701563805	-0.511354
ITPR2	5458.085742	3829.101233	0.701546552	-0.511389
ZBTB11	1611.340497	1130.062668	0.701318356	-0.511859
ZNF839	288.3683131	202.2334371	0.701302563	-0.511891
RNF145	839.7901636	588.9215477	0.701272262	-0.511953
KNOP1	540.4154264	378.9099014	0.701145606	-0.512214
OGFOD1	475.4775238	333.3518194	0.70108849	-0.512332
ZCCHC10	133.1777324	93.33850944	0.700856726	-0.512809
ENTPD7	226.7323378	158.8977006	0.700816223	-0.512892
DACH1	830.9850243	582.2545113	0.700679909	-0.513173
ATF5	147.4860838	103.339064	0.70066993	-0.513193
TTC9	107.8629568	75.55974574	0.700516173	-0.51351
LPCAT2	337.8972218	236.6797918	0.700449061	-0.513648
EIF2S3	3087.301978	2162.342135	0.700398649	-0.513752
ZNF224	844.1927333	591.1438931	0.70024755	-0.514063
DEPDC1	68.23982981	47.78042745	0.70018386	-0.514194
LRRC75A	68.23982981	47.78042745	0.70018386	-0.514194
PCBP1	1630.051419	1141.174395	0.700084907	-0.514398
ARFGAP3	1579.421867	1105.616868	0.700013651	-0.514545
FNTA	330.1927249	231.1239281	0.699966749	-0.514642
KXD1	527.2077174	368.9093468	0.699741932	-0.515105
PARVG	125.4732355	87.78264578	0.699612515	-0.515372
MCAT	139.7815869	97.78320037	0.699542784	-0.515516
FCER1G	154.0899383	107.7837549	0.699486002	-0.515633
VIPR1	239.9400468	167.7870824	0.699287529	-0.516042
ZNF263	397.3319123	277.7931829	0.699146417	-0.516333
TTYH2	100.1584599	70.00388208	0.698931295	-0.516777
HINFP	100.1584599	70.00388208	0.698931295	-0.516777
KCNH5	14.30835141	10.00055458	0.698931295	-0.516777
CEP192	2628.33409	1836.768525	0.698833733	-0.516979
ANKAR	489.7858753	342.2412013	0.69875678	-0.517138
MTERF4	679.0963709	474.4707563	0.698679564	-0.517297
TOMM7	536.0128567	374.4652105	0.698612367	-0.517436
TXNDC15	703.310504	491.1383473	0.698323634	-0.518032
LAMC2	310.3811614	216.6786826	0.698105135	-0.518484
IRF2	385.2248457	268.903801	0.698043763	-0.518611
LTO1	192.6124229	134.4519005	0.698043763	-0.518611
ZNF880	920.13706	642.2578388	0.698002359	-0.518696
ZCCHC7	638.3726015	445.5802653	0.697994031	-0.518713
ISG20L2	716.518213	500.0277291	0.697857668	-0.518995
NOL8	135.3790172	94.44968217	0.697668547	-0.519386
TIMP2	1809.456132	1262.292223	0.697608635	-0.51951
WWC3	815.5760305	568.9204385	0.697568856	-0.519592
PLPP3	423.7473303	295.5719466	0.697519313	-0.519695
TMEM64	395.1306275	275.5708374	0.697417052	-0.519906
ASB7	167.2976473	116.6731368	0.697398551	-0.519945
NT5C2	1234.920791	861.1588669	0.697339354	-0.520067
PAPOLA	4433.387653	3091.282539	0.697273232	-0.520204
BAZ1A	2169.366203	1512.306087	0.697118857	-0.520523
UBE2D3P1	46.22698148	32.22400921	0.697082271	-0.520599
STAM2	1016.993593	708.9282027	0.697082271	-0.520599
PTCD3	959.760187	668.9259843	0.696972008	-0.520827
KIAA0040	216.826556	151.1194915	0.696960254	-0.520852
CEP164	436.9550393	304.4613284	0.696779533	-0.521226
POGLUT2	78.14561156	54.44746384	0.696743717	-0.5213
BBS10	845.2933757	588.9215477	0.696706687	-0.521377
COPB2	6109.666053	4255.791561	0.696566969	-0.521666
ASH2L	858.5010847	597.8109295	0.696342661	-0.522131
ARF6	780.3554732	543.3634657	0.696302498	-0.522214
ALOX5AP	159.5931504	111.1172731	0.696253397	-0.522316
AIM2	31.91863007	22.22345463	0.696253397	-0.522316
ZNF234	304.8779493	212.2339917	0.69612772	-0.522576
POT1	467.7730269	325.5736103	0.696007661	-0.522825
UNC80	421.5460454	293.3496011	0.695889819	-0.523069
GIGYF2	2950.822318	2053.447208	0.695889819	-0.523069
TXN2	276.2612465	192.2328825	0.69583731	-0.523178
LCLAT1	832.0856667	578.9209931	0.695746864	-0.523366
PRDM2	2993.747372	2082.337699	0.695562264	-0.523748
MRPS5	49.52890873	34.44635467	0.695479783	-0.52392
MAP10	49.52890873	34.44635467	0.695479783	-0.52392
POLR2D	116.6680961	81.11560939	0.695268133	-0.524359
CBR1	183.8072835	127.7848641	0.695211102	-0.524477
ARID5B	3692.655307	2566.80901	0.695111998	-0.524683
SSBP3	469.9743118	326.684783	0.695111998	-0.524683
PLEKHG2	805.6702487	560.0310566	0.695111998	-0.524683
RPL21	1013.691665	704.4835117	0.694968239	-0.524981
IFITM3	1504.578183	1045.61354	0.694954607	-0.525009
AK4	204.7194894	142.2301096	0.694756078	-0.525422
ZMAT4	119.9700234	83.33795486	0.694656486	-0.525628
NR3C1	1128.158477	783.3767757	0.6943854	-0.526191
DNAJC7	1099.541774	763.3756665	0.694267089	-0.526437
TMEM217	19.08601027	12.22290005	1.56149606	0.642929
CROCC2	19.08601027	12.22290005	1.56149606	0.642929
PTPN2P1	19.08601027	12.22290005	1.56149606	0.642929
SMIM27	19.08601027	12.22290005	1.56149606	0.642929
ALG1L9P	19.08601027	12.22290005	1.56149606	0.642929
ENSG000002	19.08601027	12.22290005	1.56149606	0.642929
AGAP14P	19.08601027	12.22290005	1.56149606	0.642929
NEK11	558.473257	357.7976195	1.560863534	0.642344
DYNC2I2	948.4917276	607.8114841	1.560503137	0.642011
NOL10	1182.50281	757.8198028	1.560401042	0.641917
LRCH1	291.2691132	186.6770189	1.560283719	0.641808
TOMM70	1555.094924	996.7219401	1.560209383	0.64174
ZKSCAN8	878.7862988	563.3645748	1.55988917	0.641444
MYO1B	3569.913747	2289.015827	1.559584562	0.641162
PPP1R2	549.3451651	352.2417559	1.559568552	0.641147
SLC25A13	476.3204302	305.5725011	1.558780415	0.640418
CX3CL1	39.8316736	25.55697282	1.558544272	0.640199
DIS3	1175.864198	754.4862846	1.558496452	0.640155
KDM7A	817.3791354	524.4735292	1.55847548	0.640135
LMNB2	604.1137163	387.7992833	1.557799981	0.63951
MCM3AP-A	121.1546739	77.7820912	1.557616567	0.63934
NANS	626.5190327	402.2445288	1.557557624	0.639286
ENSG000002	81.32300027	52.22511838	1.557162584	0.63892
AMMECR1L	183.3916639	117.7843095	1.557012684	0.638781
TBK1	652.2436552	418.9121198	1.556993996	0.638763
TMEM19	122.8143269	78.89326393	1.556714995	0.638505
EXO5	205.7969803	132.229555	1.556361437	0.638177
PDS5B	2024.776741	1301.183269	1.556104194	0.637939
EPHB2	641.4559103	412.2450834	1.556006211	0.637848
COMMD4	82.98265334	53.33629111	1.555838466	0.637692
ENSG000002	20.74566333	13.33407278	1.555838466	0.637692
POLR3C	603.2838898	387.7992833	1.555660146	0.637527
DDHD1	1063.007789	683.3712298	1.555534888	0.637411
STK32C	335.2499195	215.5675099	1.555196883	0.637097
ACBD6	672.159492	432.2461925	1.555038549	0.63695
NUFIP1	126.1336331	81.11560939	1.554985952	0.636902
LACTB	126.1336331	81.11560939	1.554985952	0.636902
POP5	231.5216028	148.897146	1.554909607	0.636831
XKRX	105.3879697	67.78153662	1.554818244	0.636746
HSDL2	1033.134034	664.4812934	1.554797771	0.636727
CARD8	485.448522	312.2395375	1.554731108	0.636665
PACRGL	338.5692256	217.7898554	1.554568394	0.636514
RBX1	381.7202053	245.5691736	1.554430467	0.636386
RPS6KB1	552.6644712	355.5752741	1.554282627	0.636249
ZMYND8	2774.939928	1785.654579	1.554018319	0.636004
CXXC4	215.7548987	138.8965914	1.553349124	0.635382
ATF2	2271.235222	1462.303315	1.55319023	0.635235
CEP95	847.2528906	545.5858111	1.552923249	0.634987
S1PR2	217.4145517	140.0077642	1.552874964	0.634942
FCHO2	674.6489716	434.468538	1.55281433	0.634885
CDADC1	131.1125923	84.44912759	1.552563017	0.634652
NAA60	596.6452775	384.4657651	1.55188142	0.634018
HGH1	132.7722453	85.56030032	1.551797327	0.63394
NIPSNAP3A	1378.341872	888.9381852	1.550548615	0.632779
VPS37A	497.89592	321.1289194	1.550454942	0.632692
ZFR	4385.633229	2830.156947	1.549607782	0.631903
NDUFAF7	416.5729197	268.903801	1.549152218	0.631479
CDKL1	46.47028587	30.00166375	1.548923628	0.631266
CCDC167	92.94057174	60.0033275	1.548923628	0.631266
ZNF655	395.8272564	255.5697282	1.54880337	0.631154
UXT	373.42194	241.1244827	1.548668703	0.631029
METTL4	447.2765015	288.9049102	1.548178953	0.630572
PPARGC1B	94.6002248	61.11450023	1.547917834	0.630329
SAMD12	402.4658687	260.0144192	1.547859807	0.630275
RNF44	947.6619011	612.256175	1.547819262	0.630237
ZNF821	118.6651943	76.67091847	1.547721048	0.630145
TAF1D	522.790716	337.7965104	1.547649842	0.630079
TYRP1	144.3898168	93.33850944	1.54694796	0.629425
HTR7P1	48.12993894	31.11283648	1.54694796	0.629425
ENSG000002	48.12993894	31.11283648	1.54694796	0.629425
BTF3L4P2	24.06496947	15.55641824	1.54694796	0.629425
TOP1P1	24.06496947	15.55641824	1.54694796	0.629425
PFN1	3689.408767	2385.687854	1.546475898	0.628984
AK7	171.7740924	111.1172731	1.5458811	0.628429
MRPS16	786.6755536	508.917111	1.545783265	0.628338
CHD1L	73.85456147	47.78042745	1.545707425	0.628267
SPTLC1	1883.706231	1218.956486	1.545343293	0.627927
UBE2D3P1	49.789592	32.22400921	1.545108545	0.627708
TAF1A	302.0568581	195.5664007	1.544523277	0.627162
BAG2	152.6880821	98.8943731	1.543951161	0.626627
PRKAR2A	360.1447155	233.3462736	1.543391758	0.626104
DKK2	25.72462253	16.66759097	1.543391758	0.626104
IFI27L1	25.72462253	16.66759097	1.543391758	0.626104
C19orf53	156.0073883	101.1167186	1.54284465	0.625593
KIAA0586	1126.074606	730.0404846	1.54248241	0.625254
KTN1	4503.468597	2920.161938	1.542198238	0.624988
FOXE1	106.2177963	68.89270935	1.541785731	0.624602
RPL6P19	106.2177963	68.89270935	1.541785731	0.624602
DNAL4	53.10889814	34.44635467	1.541785731	0.624602
ZMYM4	2821.410213	1830.101489	1.541668717	0.624493
MBD2	864.6792478	561.1422294	1.540927064	0.623799
C1orf56	135.2617249	87.78264578	1.540870906	0.623746
HENMT1	623.1997266	404.4668742	1.540792995	0.623673
CPSF6	1581.649373	1026.723604	1.540482138	0.623382
MEIS3P1	54.7685512	35.55752741	1.540280081	0.623193
TRIB2	1804.87271	1172.287232	1.539616453	0.622571
C18orf25	222.3935109	144.4524551	1.539562002	0.62252
NEK7	725.2683902	471.1372381	1.539399418	0.622368
SMARCC1	2803.15403	1821.212107	1.539169446	0.622152
ASXL2	2974.098296	1932.32938	1.539125952	0.622111
UGT2B11	56.42820427	36.66870014	1.538865683	0.621867
SEC11A	834.2869516	1034.793687	1.240333059	0.310728
EIF4A2	3832.436894	4751.58673	1.239834304	0.310147
MPRIP	2317.952929	2873.689285	1.239753081	0.310053
STK4	983.9743202	1219.845004	1.239712235	0.310005
UNC119B	401.7344819	497.89592	1.239365657	0.309602
CALCRL	126.5738779	156.8372148	1.239096229	0.309288
ZNF644	4158.227049	5151.563119	1.238884519	0.309042
CWF19L1	231.1349074	286.290154	1.238627939	0.308743
DHDH	15.40899383	19.08601027	1.238627939	0.308743
CYP4F11	15.40899383	19.08601027	1.238627939	0.308743
DIRC3	15.40899383	19.08601027	1.238627939	0.308743
TMED2-DT	15.40899383	19.08601027	1.238627939	0.308743
SLC25A21-A	15.40899383	19.08601027	1.238627939	0.308743
MIX23	77.04496914	95.43005134	1.238627939	0.308743
DCAKD	320.2869431	396.6570829	1.238442876	0.308527
PA2G4	181.6059987	224.8829905	1.238301555	0.308363
ZFP1	119.9700234	148.5389495	1.238133871	0.308167
POLR1A	1358.192742	1681.228557	1.237842395	0.307828
TICAM1	260.8522527	322.8025215	1.237491792	0.307419
ASTE1	245.4432588	303.7165112	1.237420464	0.307336
GNAS	6534.514026	8085.829741	1.23740338	0.307316
EMC3	432.5524696	535.238114	1.237394655	0.307306
PPP2R2A	515.1006508	637.3067776	1.237247083	0.307134
CS	1381.306232	1708.612832	1.236954407	0.306792
TBC1D8	1391.212014	1720.230404	1.236497663	0.30626
DOK1	55.03212081	68.04577574	1.236473803	0.306232
ADPRHL1	27.51606041	34.02288787	1.236473803	0.306232
CDC42BPG	189.3104956	234.0110824	1.23612313	0.305822
TMPPE	94.6552478	117.0055412	1.23612313	0.305822
SNX30	390.7280578	482.9590424	1.236049044	0.305736
SLC15A4	198.1156349	244.7988273	1.235636084	0.305254
GALNT7	1292.154197	1596.58625	1.235600406	0.305212
CDV3	608.6552562	751.8228392	1.235219497	0.304767
KPNA3	708.8137161	875.4669927	1.235115761	0.304646
SLC12A6	565.730202	698.7139411	1.235065653	0.304588
SMYD4	449.0621058	554.3241243	1.234404144	0.303815
TRIM11	184.9079259	228.2022967	1.234140157	0.303506
SLC45A4	584.4411231	721.1192575	1.233861255	0.30318
INF2	632.8693894	780.8667679	1.233851378	0.303169
ENSG000002	36.32119974	44.8106328	1.233732176	0.303029
ENSG000002	36.32119974	44.8106328	1.233732176	0.303029
S1PR1	96.85653263	119.4950208	1.233732176	0.303029
SAMD14	24.21413316	29.8737552	1.233732176	0.303029
HSD11B1L	24.21413316	29.8737552	1.233732176	0.303029
ENSG000002	24.21413316	29.8737552	1.233732176	0.303029
HAP1	12.10706658	14.9368776	1.233732176	0.303029
ZNF707	12.10706658	14.9368776	1.233732176	0.303029
LINC02649	12.10706658	14.9368776	1.233732176	0.303029
ENSG000002	12.10706658	14.9368776	1.233732176	0.303029
CAMSAP2	2112.132797	2604.825488	1.233267857	0.302486
RIOK1	450.1627483	555.1539508	1.233229433	0.302441
ZNF2	105.661672	130.2827657	1.233018211	0.302194
ARPIN	69.34047223	85.47213294	1.232644229	0.301756
PPIG	1047.81158	1291.210086	1.232292246	0.301344
HNRNPH2	1132.561046	1394.938403	1.231667297	0.300613
CCR8	33.01927249	40.66150013	1.231447487	0.300355
ST6GALNAC	33.01927249	40.66150013	1.231447487	0.300355
PTGES3P1	33.01927249	40.66150013	1.231447487	0.300355
SLC1A5	860.7023695	1059.688483	1.231190387	0.300054
BTG1	671.3918739	826.5072272	1.231035494	0.299872
MFAP3L	74.84368431	92.1107452	1.230708323	0.299489
KARS1	1014.792308	1248.888933	1.230684272	0.299461
MPC2	616.3597531	758.4614515	1.230549931	0.299303
LINC02175	20.91220591	25.72462253	1.230124772	0.298805
LRRC23	62.73661773	77.1738676	1.230124772	0.298805
FRG1BP	92.45396297	113.6862351	1.229652374	0.298251
SNU13	420.445403	516.9819303	1.229605382	0.298195
ZNF525	235.5374771	289.6094601	1.22956849	0.298152
LEMD2	307.0792341	377.5710727	1.229555863	0.298137
LINC02693	122.1713082	150.1986025	1.229409791	0.297966
ERVK3-1	151.8886534	186.71097	1.229262132	0.297793
ZNF761	871.7087937	1071.306055	1.228972407	0.297453
HTRA2	148.5867262	182.5618373	1.228655089	0.29708
NCK1	353.3062156	433.999277	1.228394117	0.296774
LAMA5	2201.284833	2703.574846	1.228180382	0.296522
TMED7	115.5674537	141.9003372	1.227857261	0.296143
TMEM9B	115.5674537	141.9003372	1.227857261	0.296143
RNF7	77.04496914	94.6002248	1.227857261	0.296143
GAS5	77.04496914	94.6002248	1.227857261	0.296143
CDIP1	38.52248457	47.3001124	1.227857261	0.296143
TWSG1	355.5075005	436.4887566	1.22779057	0.296064
AP3M1	1525.490389	1872.918486	1.227748467	0.296015
ZNF280C	467.7730269	574.2399611	1.227603834	0.295845
MOB1B	340.0985066	417.4027463	1.227299556	0.295487
PAIP2	996.0813867	1222.334484	1.227143183	0.295304
PRUNE2	4449.897289	5459.428763	1.226866242	0.294978
ENSG000002	64.93790256	79.6633472	1.226761938	0.294855
LRRFIP1	2658.051435	3259.558623	1.226296293	0.294308
PIGU	474.3768814	581.7083999	1.226257903	0.294262
HP1BP3	3384.47543	4149.962493	1.226175985	0.294166
STK10	418.2441182	512.8327976	1.226156628	0.294143
PRPF18	541.5160688	663.8612267	1.225930799	0.293878
BEND7	399.5331971	489.5976547	1.225424216	0.293281
TVP23C	246.5439013	302.0568581	1.225164592	0.292976
C22orf46P	61.63597531	75.51421454	1.225164592	0.292976
CNBD2	35.22055732	43.15097974	1.225164592	0.292976
PIH1D2	35.22055732	43.15097974	1.225164592	0.292976
CALB1	8.80513933	10.78774493	1.225164592	0.292976
ZNF648	8.80513933	10.78774493	1.225164592	0.292976
INSYN2B	8.80513933	10.78774493	1.225164592	0.292976
ATAD3C	8.80513933	10.78774493	1.225164592	0.292976

GLS	665.8886619	462.2478563	0.6941819	-0.526614
FLACC1	35.22055732	24.44580009	0.694077606	-0.526831
SEC11B	35.22055732	24.44580009	0.694077606	-0.526831
ABCB11	17.61027866	12.22290005	0.694077606	-0.526831
AKR1D1	17.61027866	12.22290005	0.694077606	-0.526831
RGPD6	123.2719506	85.56030032	0.694077606	-0.526831
NCBP2	622.9636076	432.2461925	0.693854645	-0.527295
PFKFB3	302.6766645	210.0116462	0.693848158	-0.527308
SHISA5	914.6338479	634.4796297	0.693697955	-0.52762
PTGFRN	1005.987168	697.8164753	0.693663396	-0.527692
SFSWAP	1368.098523	948.9415126	0.693620742	-0.527781
RPL37A	1698.291248	1177.843095	0.693545996	-0.527937
KCNJ8	379.7216336	263.3479374	0.693528928	-0.527972
TSPAN13	709.9143585	492.24952	0.693392821	-0.528255
PTGR3	456.7666028	316.6842285	0.693317389	-0.528412
AGAP9	274.0599617	190.0105371	0.693317389	-0.528412
IFT81	424.8479727	294.4607738	0.693096808	-0.528871
NBPF9	466.6723845	323.3512648	0.692887078	-0.529308
PYCARD	56.13276323	38.8910456	0.692840391	-0.529405
CCDC71	336.7965794	233.3462736	0.692840391	-0.529405
SOBP	599.8501169	415.5786016	0.692804069	-0.529481
COA7	150.788011	104.4502368	0.692695898	-0.529706
MRPS18C	133.1777324	92.22733671	0.692513193	-0.530087
USF1	420.445403	291.1272556	0.692425826	-0.530269
ANAPC1	1169.982889	810.0449212	0.692356212	-0.530414
SETD7	1516.68525	1050.058231	0.692337604	-0.530452
SVIL	5702.428359	3947.996715	0.692336048	-0.530456
C8orf88	38.52248457	26.66814555	0.692274807	-0.530583
LPP	4941.884449	3420.189667	0.69208208	-0.530985
EDIL3	195.9143501	135.5630732	0.691950708	-0.531259
SEPTIN2	4011.841607	2775.709483	0.691879131	-0.531408
PTGER3	178.3040714	123.3401732	0.691740644	-0.531697
TTYH3	954.2569749	660.0366025	0.691675953	-0.531832
SDAD1	740.7323462	512.2506292	0.691546186	-0.532102
TSPAN15	1201.901519	831.1572031	0.691535197	-0.532125
DDX59	803.4689639	555.5863657	0.691484539	-0.532231
TIRAP	101.2591023	70.00388208	0.691334216	-0.532545
ZBTB7B	1158.976464	801.1555394	0.691261267	-0.532697
TULP3	488.6852328	337.7965104	0.691235355	-0.532751
GEMIN2	143.0835141	98.8943731	0.691165392	-0.532897
BRAF	1657.567479	1145.619086	0.691144765	-0.53294
MR1	184.9079259	127.7848641	0.691072941	-0.53309
RFXAP	41.82441182	28.89049102	0.69075666	-0.533751
ZNF594-DT	41.82441182	28.89049102	0.69075666	-0.533751
CLEC14A	104.5610295	72.22622754	0.69075666	-0.533751
LATS1	3134.629602	2164.564481	0.690532776	-0.534218
DIS3L	452.3640331	312.2395375	0.69023953	-0.534831
ENSG000002	86.95075089	60.0033275	0.690084064	-0.535156
DENND6B	219.0278408	151.1194915	0.689955628	-0.535425
NECTIN1	330.1927249	227.7904099	0.689871075	-0.535601
NEDD4L	5148.805223	3551.30805	0.689734394	-0.535887
AGAP13P	156.2912231	107.7837549	0.689634087	-0.536097
NR1H3	201.4175622	138.8965914	0.689595237	-0.536178
PKM	3066.389772	2114.561708	0.689593256	-0.536182
ZNF671	90.25267814	62.22567296	0.689460681	-0.53646
STX1A	45.12633907	31.11283648	0.689460681	-0.53646
PIN4	159.5931504	110.0061004	0.689290863	-0.536815
CNFN	69.34047223	47.78042745	0.689069831	-0.537278
SUPT16H	2062.603888	1421.189924	0.689027075	-0.537367
OCRL	1635.554631	1126.72915	0.688897288	-0.537639
ARHGAP20	166.1970049	114.4507913	0.68864533	-0.538167
FAM174A	121.0706658	83.33795486	0.688341427	-0.538804
CAPN9	24.21413316	16.66759097	0.688341427	-0.538804
UBE2C	24.21413316	16.66759097	0.688341427	-0.538804
ERLIN1	197.0149925	135.5630732	0.688085061	-0.539341
PAM	2566.698115	1765.65347	0.687908508	-0.539711
WDR75	977.3704657	672.2595025	0.687824654	-0.539887
PTPN2	528.3083598	363.3534832	0.687767809	-0.540007
SNX33	486.483948	334.4629922	0.687510849	-0.540546
ERBIN	3890.770942	2674.592765	0.687419744	-0.540737
PPM1D	344.5010763	236.6797918	0.687021923	-0.541572
ZUP1	213.5246288	146.6748005	0.686922166	-0.541781
TAGLN2	540.4154264	371.1316923	0.686752587	-0.542138
RP9	189.3104956	130.0072096	0.686740633	-0.542163
SEPTIN11	1352.68953	928.9404035	0.686735857	-0.542173
ZRANB3	302.6766645	207.7893008	0.68650585	-0.542656
DIPK2B	55.03212081	37.77987287	0.68650585	-0.542656
PPP1R3E	55.03212081	37.77987287	0.68650585	-0.542656
SCN4B	27.51606041	18.88993643	0.68650585	-0.542656
CEP120	615.2591107	422.2456379	0.686289127	-0.543112
BTRC	680.1970133	466.6925472	0.686113785	-0.54348
C2orf76	113.3661689	77.7820912	0.686113785	-0.54348
TLR1	343.4004339	235.5686191	0.685988123	-0.543744
C5orf34	85.85010847	58.89215477	0.685988123	-0.543744
HAUS6	374.2184215	256.680901	0.685911987	-0.543905
GLCCI1	350.0042884	240.01331	0.685743912	-0.544258
WDPCP	408.3383364	280.0155283	0.685743912	-0.544258
PJA1	850.7965878	583.365684	0.685669985	-0.544414
TRMT11	325.7901552	223.345719	0.685550854	-0.544664
ZNF71	178.3040714	122.2290005	0.685508746	-0.544753
DNMBP	808.972176	554.475193	0.685407001	-0.544967
CUX1	1384.60816	948.9415126	0.685350224	-0.545087
MBIP	304.8779493	208.9004735	0.685193777	-0.545416
POLR3B	582.2398382	398.9110106	0.685131769	-0.545547
COIL	400.6338395	274.4596647	0.685063611	-0.54569
NUDT12	188.2098532	128.8960368	0.684852757	-0.546134
HEATR3	188.2098532	128.8960368	0.684852757	-0.546134
ZNF540	188.2098532	128.8960368	0.684852757	-0.546134
ZC3H7B	1700.492533	1164.509023	0.684806901	-0.546231
PSMD7	725.3233523	496.694211	0.684790045	-0.546266
EFL1	642.7751711	440.0244016	0.684569693	-0.546731
RTL8A	849.7423702	552.2528475	1.538683547	0.621697
RPS12	201.6478476	131.1183823	1.537906768	0.620968
IFT88	464.7028587	302.238983	1.537534484	0.620619
NDUFAF4	58.08785734	37.77987287	1.537534484	0.620619
ALX1	29.04392867	18.88993643	1.537534484	0.620619
CSNK2A3	555.1539508	361.1311377	1.537264148	0.620365
FAM184A	175.9232251	114.4507913	1.537107983	0.620219
NCBP3	1555.92475	1012.278358	1.537052271	0.620166
DERL1	889.5740438	578.9209931	1.536606989	0.619748
GIMAP8	148.5389495	96.67202764	1.536524609	0.619671
ABHD18	686.2665431	446.691438	1.536332431	0.61949
LMBRD2	657.2226144	427.8015016	1.536279354	0.619441
AKAP6	389.1886441	253.3473828	1.53618577	0.619353
UTP25	600.7944102	391.1328015	1.536036885	0.619213
NTPCR	604.1137163	393.3551469	1.535797157	0.618988
SAP30BP	544.3662059	354.4641013	1.535744251	0.618938
AZI2	887.0845642	577.8098203	1.535253526	0.618477
UQCRH	1103.669289	718.9287572	1.535158078	0.618387
UBALD1	583.368053	380.0210742	1.535093953	0.618327
GPX1P1	30.70358173	20.00110917	1.535093953	0.618327
SMAD5	1128.564085	735.5963482	1.534216542	0.617502
CFAP92	63.06681654	41.11339106	1.533972628	0.617273
CHEK2	189.2004496	123.3401732	1.533972628	0.617273
CDC37L1	410.764134	267.7926283	1.533888878	0.617194
RELL1	579.2189203	377.7987287	1.533141528	0.616491
UAP1	676.3086247	441.1355744	1.533108332	0.61646
ENOPH1	355.9955828	232.2351009	1.53291032	0.616273
FASTKD3	291.2691132	190.0105371	1.53291032	0.616273
SYT14	32.3632348	21.1122819	1.53291032	0.616273
GATC	131.1125923	85.56030032	1.53239986	0.615793
SIAH1	623.1997266	406.6892197	1.532373361	0.615768
TSNAX	394.9974299	257.7920737	1.532232641	0.615635
ITGB1BP2	66.38612267	43.33573653	1.53190249	0.615324
MAPK1	1797.404271	1173.398404	1.53179369	0.615222
TDRD3	399.9763891	261.1255919	1.531739521	0.615171
TRIM52	367.6131543	240.01331	1.531636534	0.615074
C2CD5	2474.542722	1615.645152	1.531612756	0.615052
EOLA1	100.4090105	65.55919115	1.531577934	0.615019
ABHD13	409.9343075	267.7926283	1.530790112	0.614276
SCAI	615.7312878	402.2445288	1.530738751	0.614228
RPL39	551.0048182	360.019965	1.530484061	0.613988
MMP25-AS1	105.3879697	68.89270935	1.52974053	0.613287
MIB1	1405.726148	918.9398489	1.529725965	0.613273
PCTP	317.8235623	207.789308	1.529547292	0.613105
SH3BGRL3	713.6508187	466.6925472	1.529166949	0.612746
DZANK1	322.8025215	211.122819	1.528979781	0.612569
IFNAR2	144.3898168	94.44968217	1.528748573	0.612351
ZNF224	903.6810948	591.1438931	1.528699028	0.612304
DDX6	2417.284692	1582.30997	1.527693523	0.611355
SLC25A36	597.475104	391.1328015	1.527550494	0.61122
PROCA1	37.342194	24.44580009	1.527550494	0.61122
C1orf35	112.026582	73.33740027	1.527550494	0.61122
VPS54	755.1421454	494.4718655	1.527169083	0.61086
TRMT10A	227.3724701	148.897146	1.527043844	0.610741
SNRPD2	1253.867892	821.1566485	1.526953346	0.610656
HMCES	570.0908284	373.3540378	1.526944323	0.610647
ENAH	3895.205748	2552.363764	1.526117007	0.609866
RBM12	2889.455989	1893.438334	1.52603649	0.609789
HDHD5	315.3340827	206.678128	1.525725463	0.609495
TAB2	4753.246383	3115.728339	1.52556509	0.609344
ECI1	677.9682778	444.4690926	1.525344032	0.609135
POLR1E	401.6360421	263.3479374	1.52511558	0.608919
SPATS2	403.2956952	264.4591101	1.524983182	0.608793
MS4A4E	40.66150013	26.66814555	1.524721697	0.608546
GLRX5	370.9324604	243.3468282	1.524295439	0.608143
ZNF761	1071.306055	703.372339	1.523099495	0.60701
PRDX5	1076.285014	706.7058572	1.52296037	0.606878
TTI2	174.263572	114.4507913	1.522606965	0.606544
MARCKS	526.1100222	345.5747195	1.522420456	0.606367
SH3BP1	43.98080627	28.89049102	1.522328099	0.606279
PAFAH1B2	843.9335844	554.475193	1.522040292	0.606007
SNAPIN	224.8829905	147.7859733	1.521680208	0.605665
NPM3	45.64045934	30.00166375	1.521264278	0.605271
PDZD11	229.8619497	151.1194915	1.5210609	0.605078
EPHA6	461.3835526	303.3501557	1.520960329	0.604983
ITGA6	3253.749837	2140.118681	1.520359533	0.604413
CDIP1	47.3001124	31.11283648	1.520276444	0.604334
MAP9	716.1402983	471.1372381	1.520024826	0.604095
PGAM5	287.1199805	188.8993643	1.519962661	0.604036
EXOSC1	192.5197557	126.6736914	1.519808522	0.60389
PPWD1	433.999277	285.571392	1.519757543	0.603841
SF3B4	1487.049148	978.9431764	1.519035204	0.603155
CARMIL1	1735.997108	1143.396741	1.518280616	0.602438
SPOP	868.8283804	572.2539567	1.518256659	0.602416
RAB31	205.7969803	135.5630732	1.518090254	0.602258
TXNRD1	1858.811435	1224.51235	1.518001378	0.602173
LAMTOR2	416.5729197	274.4596647	1.517792861	0.601975
SFXN3	52.2790716	34.44635467	1.517695329	0.601882
AAGAB	802.4422578	528.9182202	1.517138618	0.601353
ITGA1	536.0679406	353.3529286	1.517089281	0.601306
RPS7P1	53.93872467	35.55752741	1.516942504	0.601166
NUTF2	217.4145517	143.3412824	1.516761593	0.600994
ZNF521	220.7338579	145.5636278	1.516408056	0.600658
FAM104B	335.2499195	221.1233736	1.516121584	0.600385
SPICE1	57.2580308	37.77987287	1.515569706	0.59986
YWHAEP1	57.2580308	37.77987287	1.515569706	0.59986
TWF1	975.0461767	643.3690115	1.51553177	0.599824
NCOA6	5861.064805	3867.992278	1.51527314	0.599578
EMG1	176.7530516	116.6731368	1.514942141	0.599263
METTL16	834.8054926	551.1416748	1.514684029	0.599017
DNAJA2	1442.238515	952.2750308	1.514518882	0.59886
ENSG000002	8.80513933	10.78774493	1.225164592	0.292976
HSPA9P1	8.80513933	10.78774493	1.225164592	0.292976
LERFS	8.80513933	10.78774493	1.225164592	0.292976
ENSG000002	8.80513933	10.78774493	1.225164592	0.292976
ENSG000002	8.80513933	10.78774493	1.225164592	0.292976
ENSG000002	8.80513933	10.78774493	1.225164592	0.292976
FBXL13	79.24625397	97.0897044	1.225164592	0.292976
CORIN	88.0513933	107.8774493	1.225164592	0.292976
NARS1	1205.203446	1476.261403	1.224906391	0.292672
TRIM32	260.8522527	319.4832153	1.22476694	0.292507
HABP4	216.826556	265.5444907	1.224686199	0.292412
GARRE1	523.9057902	641.4559103	1.22437263	0.292043
GOSR2	236.6381195	289.6094601	1.223849567	0.291426
PAQR3	201.4175622	246.4584804	1.223619618	0.291155
LTO1	192.6124229	235.6707355	1.22354899	0.291072
GEMIN4	381.9229185	467.1923383	1.223263428	0.290735
BAG5	1386.809445	1696.165434	1.223070293	0.290507
CLTC	9653.734633	11806.77192	1.223026359	0.290455
ZC3H3	203.618847	248.94796	1.222617472	0.289973
STX8	502.9935842	614.9014612	1.222483707	0.289815
SKAP2	476.5781663	582.5382264	1.222335112	0.28964
LCMT2	200.3169198	244.7988273	1.222057666	0.289312
WDR43	1161.177749	1419.003372	1.222038033	0.289289
B4GALT3	327.9914401	400.8062156	1.222002061	0.289247
RPL7	1828.167053	2233.893028	1.221930471	0.289162
THAP9-AS1	31.91863007	39.00184707	1.221914818	0.289144
POGLUT2	78.14561156	95.43005134	1.221182475	0.288279
SERPINH1	1507.88011	1841.385078	1.221174724	0.28827
ENSG000002	170.5995745	208.2864599	1.220908437	0.287955
ALG8	410.5396213	501.2152262	1.220869315	0.287909
C19orf12	69.34047223	84.6423064	1.220676809	0.287681
GSPT1	2388.394043	2915.180612	1.220560996	0.287544
RRAGA	528.3083598	644.7752164	1.22045242	0.287416
C4orf47	37.42184215	45.64045934	1.219620861	0.286433
GPX1	163.99572	199.9881945	1.219472036	0.286257
TENM4	290.5695979	354.3359297	1.219452869	0.286234
KYAT3	347.8030036	424.0413586	1.219199818	0.285935
GRWD1	194.8137077	237.3303885	1.218242758	0.284802
RFX5	366.5139246	446.446675	1.218089259	0.28462
ATXN7L3	300.4753796	365.9535012	1.217915097	0.284414
HINFP	100.1584599	121.9845004	1.217915097	0.284414
SGPP2	57.23340565	69.7054288	1.217915097	0.284414
NOTCH2NLB	28.61670282	34.8527144	1.217915097	0.284414
KLC3	14.30835141	17.4263572	1.217915097	0.284414
UMODL1	14.30835141	17.4263572	1.217915097	0.284414
IFT122P3	14.30835141	17.4263572	1.217915097	0.284414
PTMAP4	14.30835141	17.4263572	1.217915097	0.284414
SOX2-OT	14.30835141	17.4263572	1.217915097	0.284414
VASH1-AS1	14.30835141	17.4263572	1.217915097	0.284414
ZNF805	334.5952946	407.4448279	1.217724321	0.284188
ETV6	905.8287086	1102.839463	1.217492283	0.283913
TRIM38	259.7516102	316.1639092	1.21717786	0.28354
FAM200B	116.6680961	141.9003372	1.216273702	0.282468
RAB33B	224.5310529	273.0129295	1.21592504	0.282054
TIGD2	210.2227015	255.5865723	1.215789591	0.281894
FLYWCH2	147.4860838	179.2425312	1.215318263	0.281334
MAGOH	356.6081429	433.1694504	1.2146931	0.280592
TOP1P1	19.81156349	24.06496947	1.2146931	0.280592
STAG3L4	19.81156349	24.06496947	1.2146931	0.280592
NAA35	1083.032138	1315.275055	1.214437697	0.280288
ERI2	562.4282747	682.947237	1.214283256	0.280105
EPHB2	528.3083598	641.4559103	1.214169525	0.27997
PHLPP1	335.695937	407.4448279	1.213731782	0.27945
EYS	45.12633907	54.7685512	1.213671491	0.279378
CRACD	135.3790172	164.3056536	1.213671491	0.279378
CCDC85C	296.07281	359.3148889	1.21360313	0.279297
LEPR	1040.107083	1262.166157	1.213496358	0.27917
SAFB	1627.850134	1974.987149	1.213248756	0.278875
ELMO2	585.5417655	710.3315126	1.213118439	0.27872
BDNF-AS	25.31477557	30.70358173	1.212871971	0.278427
NUCKS1	5503.212081	6674.294808	1.212799854	0.278341
ZNF607	283.9657434	344.3780113	1.212744915	0.278276
FAM98C	86.95075089	105.3879697	1.212042089	0.27744
DDAH1	1085.233422	1315.275055	1.211974335	0.277359
DDX49	148.5867262	180.0723577	1.211900702	0.277271
ITGA3	954.2569749	1155.948361	1.211359614	0.276627
PRX	134.2783748	162.6460005	1.211259823	0.276508
ZNF771	36.32119974	43.98080627	1.210885284	0.276062
CDK8	343.4004339	415.7430932	1.210665603	0.2758
ZNF823	312.5824462	378.4008992	1.210563497	0.275679
QPCTL	78.14561156	94.6002248	1.210563497	0.275679
TUT1	78.14561156	94.6002248	1.210563497	0.275679
AGO3	1001.584599	1212.376565	1.210458474	0.275554
ARMC8	927.8415569	1122.7553	1.210072228	0.275093
MAP7D1	515.1006508	623.1997266	1.209860103	0.27484
VPS72	600.9507593	726.9280432	1.20962996	0.274566
PCM1	4001.935826	4840.378169	1.209509193	0.274422
EFCAB5	52.83083598	63.89664307	1.209457353	0.27436
PJA1	850.7965878	1028.984901	1.209437034	0.274336
SEC61G	333.4946521	403.2956952	1.209301836	0.274174
GPR107	1166.680961	1410.705107	1.20916099	0.274006
SGTB	149.6873686	180.9021843	1.208533398	0.273257
EIF2S3B	872.8094361	1054.709524	1.208407563	0.273107
FAM98B	451.2633907	545.1960324	1.208154802	0.272805
ZNF624	279.5631737	337.7393991	1.208096884	0.272736
AVPR1A	96.85653263	117.0055412	1.208029423	0.272656
DBT	563.5289171	680.4577574	1.207493949	0.272016
SMG7	2611.824454	3152.511	1.207014888	0.271443
RAD23A	987.2762474	1191.630902	1.206988323	0.271412
ARHGEF2	727.5246372	877.9564723	1.206772152	0.271153
ZBTB2	341.1991491	411.5939605	1.206315906	0.270608

MBOAT2	614.1584683	420.0232925	0.683900515	-0.548142
LGSN	34.11991491	23.33462736	0.683900515	-0.548142
OXR1	1234.920791	844.4912759	0.683842463	-0.548264
NSD1	8196.484074	5601.421739	0.683393232	-0.549212
ZNF483	507.3961539	346.6858922	0.683264722	-0.549483
OLA1	806.7708911	551.1416748	0.683145216	-0.549736
DACT2	37.42184215	25.55697282	0.682942671	-0.550164
SUSD1	486.483948	332.2406467	0.682942671	-0.550164
RIC3	112.2655265	76.67091847	0.682942671	-0.550164
IFT25	414.9421909	283.3490465	0.682863909	-0.55033
PURB	418.2441182	285.571392	0.682786391	-0.550494
COL4A3	343.4004339	234.4574463	0.68275233	-0.550566
ZMYM4	2681.164926	1830.101489	0.682576991	-0.550936
MRPL36	275.1606041	187.7881916	0.68246758	-0.551168
SNRNP35	275.1606041	187.7881916	0.68246758	-0.551168
TOP2B	9207.974455	6283.681796	0.682417379	-0.551274
QARS1	1441.841565	983.3878673	0.682036009	-0.55208
CCDC121	254.2483982	173.3429461	0.681785794	-0.55261
UAP1	647.1777408	441.1355744	0.681629708	-0.55294
MRPS21	172.8008594	117.7843095	0.681618772	-0.552963
SPRED1	480.9807359	327.7959558	0.681515768	-0.553181
PLEKHB2	264.1541799	180.0099825	0.681458013	-0.553303
USE1	132.07709	90.00499125	0.681458013	-0.553303
SLAIN1	220.1284833	150.0831187	0.681458013	-0.553303
RIC8B	396.2312699	270.0149737	0.681458013	-0.553303
ABCC1	135.3790172	92.22733671	0.681252816	-0.553738
HNRNPA2B1	8047.897348	5482.526257	0.681237101	-0.553771
USP2	47.3276239	32.22400921	0.680871055	-0.554546
PGGT1B	391.8287002	266.6814555	0.680607254	-0.555106
PABPC4L	148.5867262	101.1167186	0.680523228	-0.555284
TMEM126A	101.2591023	68.89270935	0.680360657	-0.555628
NEK5	101.2591023	68.89270935	0.680360657	-0.555628
VPS37A	472.1755966	321.1289194	0.680104863	-0.556171
ZFAND6	555.8244202	377.7987287	0.679708762	-0.557011
TAF9B	613.0578259	416.6897743	0.679690817	-0.557049
UBE3A	1703.79446	1157.841986	0.679566704	-0.557313
ID4	114.4668113	77.7820912	0.679516537	-0.557419
RPF1	646.0770984	438.9132289	0.679351164	-0.557771
ELK3	534.9122143	363.3534832	0.679276849	-0.557928
ERP44	1799.550351	1222.290005	0.679219675	-0.55805
SCAMP1	554.7237778	376.687556	0.679054281	-0.558401
DNAJC1	628.4668197	426.6903289	0.678938514	-0.558647
COL1A2	12709.11798	8626.033914	0.678727975	-0.559095
ZNF43	460.06853	312.2395375	0.678680495	-0.559196
RRBP1	5728.843777	3887.993387	0.678669822	-0.559218
GOLGB1	19658.5742	13339.62864	0.678565419	-0.55944
MMGT1	419.3447606	284.4602192	0.678344517	-0.55991
CNOT9	807.8715336	547.8081566	0.678088203	-0.560455
ENSG000002	73.74304189	50.00277291	0.678067674	-0.560499
NUP42	372.0171367	252.23621	0.678023094	-0.560594
SOCS5	606.4539714	411.1339106	0.67793094	-0.56079
PALS1	957.5589022	648.9248752	0.67768664	-0.56131
DNAJA1	1953.640289	1323.406723	0.677405524	-0.561908
LRRC1	270.7580344	183.3435007	0.677148883	-0.562455
FRMD6	451.2633907	305.5725011	0.677148883	-0.562455
RNF216	1319.670257	893.3828761	0.676974321	-0.562827
RNF38	1336.179893	904.4946034	0.67692577	-0.56293
MIS12	96.85653263	65.55919115	0.67686907	-0.563051
C3orf62	96.85653263	65.55919115	0.67686907	-0.563051
CIPC	633.9700318	428.9126743	0.676550393	-0.563731
MTM1	353.3062156	238.9021373	0.676190021	-0.564499
MYEF2	866.2055816	585.5880295	0.676038162	-0.564823
COMMD2	383.0235609	258.9032464	0.675946007	-0.56502
ZFAND3	799.0663942	540.0299475	0.675826128	-0.565276
CS	1381.306232	933.3850944	0.675726405	-0.565489
TMPRSS2	8061.105057	5446.96873	0.675709929	-0.565524
GATAD1	296.07281	200.0110917	0.675546977	-0.565872
BAZ2B	6376.021518	4306.905507	0.675484782	-0.566005
STK38	1127.057834	761.153321	0.675345397	-0.566303
ATG4A	162.8950776	110.0061004	0.675318751	-0.566359
TMEM165	1342.783748	906.7169489	0.675251656	-0.566503
DENND6A	511.7987236	345.5747195	0.675216064	-0.566579
PFKFB2	358.8094277	242.2356555	0.675109506	-0.566807
DYNLL2	663.687377	447.8026108	0.674719192	-0.567641
MRPL33	242.1413316	163.3423915	0.674574598	-0.56795
PTRH2	252.0471133	170.0094279	0.674514481	-0.568079
EIF5	1260.235567	850.0471396	0.674514481	-0.568079
ZNF808	1570.616728	1058.947613	0.674224077	-0.5687
SNAP23	337.8972218	227.7904099	0.674141115	-0.568877
MTRR	542.6167112	365.5758286	0.673727552	-0.569763
NEDD9	2138.548215	1440.07986	0.673391346	-0.570483
ZNRF2	99.05781747	66.67036389	0.673044951	-0.571225
THNSL1	99.05781747	66.67036389	0.673044951	-0.571225
TAS2R3	257.5503254	173.3429461	0.673044951	-0.571225
MEMO1	39.62312699	26.66814555	0.673044951	-0.571225
RFPL2	36.32119974	24.44580009	0.673044951	-0.571225
PROCA1	36.32119974	24.44580009	0.673044951	-0.571225
TNFSF8	19.81156349	13.33407278	0.673044951	-0.571225
PIPOX	19.81156349	13.33407278	0.673044951	-0.571225
RGPD1	19.81156349	13.33407278	0.673044951	-0.571225
SPP2	9.905781747	6.667036389	0.673044951	-0.571225
APOBEC3H	9.905781747	6.667036389	0.673044951	-0.571225
ALPP	9.905781747	6.667036389	0.673044951	-0.571225
DIP2C-AS1	9.905781747	6.667036389	0.673044951	-0.571225
TRAV4	9.905781747	6.667036389	0.673044951	-0.571225
PPP1R8P1	9.905781747	6.667036389	0.673044951	-0.571225
MIR646HG	9.905781747	6.667036389	0.673044951	-0.571225
EEF1A1P11	9.905781747	6.667036389	0.673044951	-0.571225
TCP10L	9.905781747	6.667036389	0.673044951	-0.571225
ENSG000002	9.905781747	6.667036389	0.673044951	-0.571225
NDUFA5P11	9.905781747	6.667036389	0.673044951	-0.571225
C9orf43	60.57733694	40.00221833	1.51434944	0.598698
SH2D3C	126.1336331	83.33795486	1.51351966	0.597907
STK10	512.8327976	338.9076831	1.513193189	0.597596
INTS2	904.5109214	597.8109295	1.513038449	0.597449
ZNF571	326.1218276	215.5675099	1.512852413	0.597271
JDP2	131.1125923	86.67147305	1.512753708	0.597177
EID2	131.1125923	86.67147305	1.512753708	0.597177
TMEM67	1580.819546	1045.61354	1.511858335	0.596323
SNRNP40	824.8475742	545.5858111	1.511856719	0.596321
VNN2	137.7512045	91.11616398	1.511819622	0.596286
DYNC1LI2	1453.02626	961.1644127	1.511735392	0.596206
ST13	970.897044	642.2578388	1.511693568	0.596166
AIF1L	288.7796336	191.1217098	1.510972426	0.595477
EIF3B	1097.860504	726.7069664	1.510733424	0.595249
RFX5	446.446675	295.5719466	1.510450096	0.594979
CAPZA2	699.5437676	463.359029	1.509722966	0.594284
COMTD1	78.83352067	52.22511838	1.509494341	0.594065
POLI	405.7851748	268.903801	1.50903473	0.593626
IFIT5	162.6460005	107.7837549	1.509002916	0.593596
PMS1	583.368053	386.6881105	1.508626816	0.593236
ZNF343	346.8674909	230.0127554	1.508035893	0.592671
MRPL57	261.395358	173.3429461	1.507966513	0.592604
CCDC121	261.395358	173.3429461	1.507966513	0.592604
LSM11	87.131786	57.78098203	1.507966513	0.592604
SAFB2	1315.275055	872.2705942	1.507875038	0.592517
CCZ1B	277.9918887	184.4546734	1.507101357	0.591776
ZNF682	282.9708479	187.7881916	1.506861776	0.591547
GABARAP	95.43005134	63.33684569	1.506706725	0.591399
GART	2229.743895	1480.082078	1.506500165	0.591201
ADAT1	393.3377768	261.1255919	1.506316459	0.591025
MANEAL	789.9948598	524.4735292	1.506262596	0.590973
EXOSC6	98.74935747	65.55919115	1.506262596	0.590973
PRPF38B	515.3222772	342.2412013	1.505728344	0.590462
UBE2Q1	948.4917276	630.0349387	1.505458935	0.590203
KCTD17	105.3879697	70.00388208	1.505458935	0.590203
ZFAND2A	105.3879697	70.00388208	1.505458935	0.590203
ASF1A	227.3724701	151.1194915	1.504587316	0.589368
LYPLAL1	570.0908284	378.9099014	1.50455511	0.589337
TGFBI	471.341471	313.3507103	1.50419787	0.588994
C1orf162	118.6651943	78.89326393	1.504123272	0.588923
IQGAP1	4642.879454	3086.837848	1.504089195	0.58889
N4BP1	2087.013731	1387.854742	1.503769572	0.588584
PPME1	1755.083118	1167.842541	1.502842256	0.587694
MLF1	570.920655	380.0210742	1.502339459	0.587211
CUEDC1	308.6954704	205.5669553	1.501678467	0.586576
CTNNAL1	2091.992691	1393.410605	1.501346899	0.586257
SACM1L	660.5419206	440.0244016	1.501148387	0.586067
DROSHA	3697.707033	2463.469946	1.501015687	0.585939
VPS35	3944.165513	2627.92351	1.5008677	0.585797
SLC2A3	185.0513169	123.3401732	1.500332877	0.585283
GTPBP10	186.71097	124.4513459	1.500272806	0.585225
PITPNA	955.1303399	636.7019751	1.500121528	0.585079
ABL2	1211.546739	807.8225758	1.499768359	0.58474
WBP4	203.3075007	135.5630732	1.499726259	0.584699
CTSD	209.9461129	140.0077642	1.499531931	0.584512
NARF	644.7752164	430.0238471	1.499394094	0.58438
NCK2	501.2152262	334.4629922	1.49856707	0.583584
ZCCHC8	762.6105842	508.917111	1.498496646	0.583516
ZNF800	794.1439924	530.0293929	1.498301798	0.583328
POP1	297.9077255	198.8999189	1.497777008	0.582823
ZC3H12C	334.4200929	223.345719	1.497320362	0.582383
GSK3B	2697.76606	1802.32217	1.496827873	0.581908
GALNS	410.764134	274.4596647	1.496628419	0.581716
CFL1	5049.494456	3374.631585	1.496309842	0.581409
HEATR5A	656.3927879	438.9132289	1.495495566	0.580624
MLLT3	694.5648084	464.4702017	1.495391536	0.580523
CRABP2	736.0561351	492.24952	1.495290712	0.580426
NT5C	102.8984901	68.89270935	1.493604927	0.578799
NME6	102.8984901	68.89270935	1.493604927	0.578799
FEM1B	1022.346289	684.4824026	1.493604927	0.578799
TMEM170A	58.08785734	38.8910456	1.493604927	0.578799
NBR2	58.08785734	38.8910456	1.493604927	0.578799
GALNT7-DT	24.894796	16.66759097	1.493604927	0.578799
LRRC75A	71.36508187	47.78042745	1.493604927	0.578799
RBM11	71.36508187	47.78042745	1.493604927	0.578799
SF3A3P1	23.23514293	15.55641824	1.493604927	0.578799
PTP4A2P1	23.23514293	15.55641824	1.493604927	0.578799
KCTD16	11.61757147	7.77820912	1.493604927	0.578799
CFAP90	11.61757147	7.77820912	1.493604927	0.578799
ARL4AP5	11.61757147	7.77820912	1.493604927	0.578799
PSMD12P1	11.61757147	7.77820912	1.493604927	0.578799
CNOT3	227.3724701	152.2306642	1.493604927	0.578799
ZSCAN29	370.1026339	247.7915191	1.493604927	0.578799
ZSCAN21	170.9442659	114.4507913	1.493604927	0.578799
PPP1R1A	69.7054288	46.66925472	1.493604927	0.578799
ATP6V0A4	43.15097974	28.89049102	1.493604927	0.578799
CAPSL	34.8527144	23.33462736	1.493604927	0.578799
CORO2B	29.8737552	20.00110917	1.493604927	0.578799
SCN1B	28.21410213	18.88993643	1.493604927	0.578799
YBX1P1	26.55444907	17.7787637	1.493604927	0.578799
DDX11L2	26.55444907	17.7787637	1.493604927	0.578799
ZPLD1	16.59653067	11.11172731	1.493604927	0.578799
TRABD2A	16.59653067	11.11172731	1.493604927	0.578799
PLPPR3	14.9368776	10.00055458	1.493604927	0.578799
MPO	13.27722453	8.889381852	1.493604927	0.578799
ESR2	13.27722453	8.889381852	1.493604927	0.578799
SUMO2P21	13.27722453	8.889381852	1.493604927	0.578799
PRPF31	8.298265334	5.555863657	1.493604927	0.578799
NACA3P	8.298265334	5.555863657	1.493604927	0.578799
NUDT10	8.298265334	5.555863657	1.493604927	0.578799
REN	8.298265334	5.555863657	1.493604927	0.578799
PIGV	148.5867262	179.2425312	1.206315906	0.270608
FKBP1A	946.552478	1141.84131	1.206315906	0.270608
SCN4B	27.51606041	33.19306133	1.206315906	0.270608
RBM20	22.01284833	26.55444907	1.206315906	0.270608
BATF3	11.00642416	13.27722453	1.206315906	0.270608
LRRTM2	11.00642416	13.27722453	1.206315906	0.270608
LINC00265	11.00642416	13.27722453	1.206315906	0.270608
INCA1	11.00642416	13.27722453	1.206315906	0.270608
ERICH2-DT	11.00642416	13.27722453	1.206315906	0.270608
FBXO38-DT	11.00642416	13.27722453	1.206315906	0.270608
INTS6P1	11.00642416	13.27722453	1.206315906	0.270608
USP32P4	11.00642416	13.27722453	1.206315906	0.270608
ENSG000002	11.00642416	13.27722453	1.206315906	0.270608
TRIM16L	11.00642416	13.27722453	1.206315906	0.270608
ENSG000002	11.00642416	13.27722453	1.206315906	0.270608
GRM6	5.503212081	6.638612267	1.206315906	0.270608
HOXD11	5.503212081	6.638612267	1.206315906	0.270608
CAPN11	5.503212081	6.638612267	1.206315906	0.270608
SIK1	5.503212081	6.638612267	1.206315906	0.270608
RAPSN	5.503212081	6.638612267	1.206315906	0.270608
GABRB3	5.503212081	6.638612267	1.206315906	0.270608
WDR88	5.503212081	6.638612267	1.206315906	0.270608
RSPH9	5.503212081	6.638612267	1.206315906	0.270608
INHBC	5.503212081	6.638612267	1.206315906	0.270608
GDPD4	5.503212081	6.638612267	1.206315906	0.270608
ZAR1	5.503212081	6.638612267	1.206315906	0.270608
SEPTIN5	5.503212081	6.638612267	1.206315906	0.270608
CATSPER2P1	5.503212081	6.638612267	1.206315906	0.270608
ZNRF2P2	5.503212081	6.638612267	1.206315906	0.270608
RPS3AP38	5.503212081	6.638612267	1.206315906	0.270608
DONSONP1	5.503212081	6.638612267	1.206315906	0.270608
CCDC26	5.503212081	6.638612267	1.206315906	0.270608
SILC1	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
MED14OS	5.503212081	6.638612267	1.206315906	0.270608
RPS20P22	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
PPIAP85	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
LINC01311	5.503212081	6.638612267	1.206315906	0.270608
BMS1P4.1	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
ENSG000002	5.503212081	6.638612267	1.206315906	0.270608
FKBP9P1.1	5.503212081	6.638612267	1.206315906	0.270608
SMG1P6	38.52248457	46.47028587	1.206315906	0.270608
RN7SL4P	82.54818122	99.579184	1.206315906	0.270608
UBE2D1	238.8394043	287.9498071	1.205621023	0.269776
MLX	222.3297681	268.0339703	1.205569423	0.269715
RAB3IP	1179.88867	1422.322678	1.205471935	0.269598
ZNF653	134.2783748	161.816174	1.205079926	0.269129
ENDOV	106.7623144	128.6231127	1.204761375	0.268747
PHB1	410.5396213	494.5766139	1.20469886	0.268673
COL13A1	90.25267814	108.7072759	1.20447701	0.268407
ZNF571	270.7580344	326.1218276	1.20447701	0.268407
CASP2	361.0107125	434.8291035	1.20447701	0.268407
CEP120	615.2591107	741.0350943	1.204427665	0.268348
BCKDHB	514.0000084	619.0505939	1.204378568	0.268289
BCAS3	945.4518356	1138.522004	1.204209417	0.268086
TMEM104	221.2291257	266.3743172	1.204065316	0.267914
NUP93	363.2119974	437.3185831	1.204031217	0.267873
UBL4A	141.9828717	170.9442659	1.203978084	0.267809
ROCK2	3251.297698	3914.291758	1.20391675	0.267736
DROSHA	3071.892984	3697.707033	1.203722608	0.267503
POLE4	62.73661773	75.51421454	1.203670476	0.26744
DNAJC15	239.9400468	288.7796336	1.203549126	0.267295
SAP130	1349.387602	1623.970526	1.203487065	0.267221
AKAP6	323.5888704	389.1886441	1.20272568	0.266308
AK3	693.4047223	833.975666	1.20272568	0.266308
MICU1	676.895086	814.0598292	1.202638113	0.266203
UBE2Z	1026.899374	1234.781882	1.202437077	0.265961
RAF1	1427.533214	1715.251444	1.201549237	0.264896
BCAR3	194.8137077	234.0110824	1.201204398	0.264482
IBA57	64.93790256	78.00369414	1.201204398	0.264482
ZNF521	183.8072835	220.7338579	1.200898319	0.264114
TMA7	118.869381	142.7301637	1.20073111	0.263913
SPG21	804.5696063	965.9180848	1.200540111	0.263684
PABPC1	25117.76058	30151.74709	1.200415419	0.263534
NFYC	555.8244202	667.1805328	1.200344045	0.263448
RAB2B	701.1092192	841.4441048	1.200161233	0.263228
MRFAP1	533.8115719	640.6260838	1.200097783	0.263152
UNKL	126.5738779	151.8582556	1.199759841	0.262746
ZNF470	320.2869431	384.2096849	1.199579606	0.262529
REEP2	24.21413316	29.04392867	1.199461838	0.262387
ASXL1	1592.629576	1910.26068	1.199438154	0.262359
CAPS2	268.5567496	321.9726949	1.198900029	0.261711
DENND1A	660.3854498	791.6545128	1.198776431	0.261563
CUEDC1	257.5503254	308.6954704	1.198583112	0.26133
ZNF622	337.8972218	404.9553483	1.19845717	0.261178
EIF5	1260.235567	1510.284291	1.198414273	0.261127
POLR3GL	61.63597531	73.85456147	1.198237898	0.260914
CCNY	1007.087811	1206.56778	1.198076043	0.260719
CPXM1	37.42184215	44.8106328	1.197445936	0.259961
VSIG10L	18.71092108	22.4053164	1.197445936	0.259961
ZSCAN16	112.2655265	134.4318984	1.197445936	0.259961
TSR3	275.1606041	329.4411337	1.197268537	0.259747
ZNF426	400.6338395	479.6397363	1.197202255	0.259667
MSL2	1741.216303	2084.524252	1.197165596	0.259623
FEM1A	194.8137077	233.1812559	1.196944808	0.259357

ENSG000002	9.905781747	6.667036389	0.673044951	-0.571225
NPEPPSP1	9.905781747	6.667036389	0.673044951	-0.571225
NAA50	1274.543918	857.8253487	0.673044951	-0.571225
NALF2	46.22698148	31.11283648	0.673044951	-0.571225
NFAM1	46.22698148	31.11283648	0.673044951	-0.571225
CENPQ	23.11349074	15.55641824	0.673044951	-0.571225
GUCY2C	23.11349074	15.55641824	0.673044951	-0.571225
ARL13B	300.4753796	202.2334371	0.673044951	-0.571225
CWF19L1	231.1349074	155.5641824	0.673044951	-0.571225
PDXDC2P-NI	72.64239948	48.89160018	0.673044951	-0.571225
AHRR	6.603854498	4.444690926	0.673044951	-0.571225
MS4A12	6.603854498	4.444690926	0.673044951	-0.571225
WNT8B	6.603854498	4.444690926	0.673044951	-0.571225
REC8	6.603854498	4.444690926	0.673044951	-0.571225
HAS1	6.603854498	4.444690926	0.673044951	-0.571225
PILRB	6.603854498	4.444690926	0.673044951	-0.571225
SSTR4	6.603854498	4.444690926	0.673044951	-0.571225
SPX	6.603854498	4.444690926	0.673044951	-0.571225
OR1J1	6.603854498	4.444690926	0.673044951	-0.571225
EFNA3	6.603854498	4.444690926	0.673044951	-0.571225
PLCL2	6.603854498	4.444690926	0.673044951	-0.571225
TMSB15A	6.603854498	4.444690926	0.673044951	-0.571225
SOAT2	6.603854498	4.444690926	0.673044951	-0.571225
GTSF1	6.603854498	4.444690926	0.673044951	-0.571225
SULT1B1	6.603854498	4.444690926	0.673044951	-0.571225
RAG2	6.603854498	4.444690926	0.673044951	-0.571225
HRG-AS1	6.603854498	4.444690926	0.673044951	-0.571225
STARD7-AS1	6.603854498	4.444690926	0.673044951	-0.571225
RPS3AP47	6.603854498	4.444690926	0.673044951	-0.571225
PPIAP30	6.603854498	4.444690926	0.673044951	-0.571225
ENSG000002	6.603854498	4.444690926	0.673044951	-0.571225
C2CD4D	6.603854498	4.444690926	0.673044951	-0.571225
RBM26-AS1	6.603854498	4.444690926	0.673044951	-0.571225
ATF4P3	6.603854498	4.444690926	0.673044951	-0.571225
ENSG000002	6.603854498	4.444690926	0.673044951	-0.571225
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DNAJC9-AS1	6.603854498	4.444690926	0.673044951	-0.571225
SLC35E1P1	6.603854498	4.444690926	0.673044951	-0.571225
ENSG000002	6.603854498	4.444690926	0.673044951	-0.571225
PIGAP1	6.603854498	4.444690926	0.673044951	-0.571225
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SYNPO2L-AS	6.603854498	4.444690926	0.673044951	-0.571225
ENSG000002	6.603854498	4.444690926	0.673044951	-0.571225
ACTBP4	6.603854498	4.444690926	0.673044951	-0.571225
ENSG000002	6.603854498	4.444690926	0.673044951	-0.571225
CD79B	3.301927249	2.222345463	0.673044951	-0.571225
RTEL1-TNFR	3.301927249	2.222345463	0.673044951	-0.571225
SZRD1	3.301927249	2.222345463	0.673044951	-0.571225
PNPLA5	3.301927249	2.222345463	0.673044951	-0.571225
TNNI3K	3.301927249	2.222345463	0.673044951	-0.571225
EDN2	3.301927249	2.222345463	0.673044951	-0.571225
CALML4	3.301927249	2.222345463	0.673044951	-0.571225
CDH15	3.301927249	2.222345463	0.673044951	-0.571225
TCN1	3.301927249	2.222345463	0.673044951	-0.571225
IFNK	3.301927249	2.222345463	0.673044951	-0.571225
CD1B	3.301927249	2.222345463	0.673044951	-0.571225
APOA2	3.301927249	2.222345463	0.673044951	-0.571225
ST6GALNAC	3.301927249	2.222345463	0.673044951	-0.571225
TMEM52B	3.301927249	2.222345463	0.673044951	-0.571225
MBOAT4	3.301927249	2.222345463	0.673044951	-0.571225
FAM156B	3.301927249	2.222345463	0.673044951	-0.571225
FAM167B	3.301927249	2.222345463	0.673044951	-0.571225
DYNLT4	3.301927249	2.222345463	0.673044951	-0.571225
KRTDAP	3.301927249	2.222345463	0.673044951	-0.571225
SNTN	3.301927249	2.222345463	0.673044951	-0.571225
SHPK	3.301927249	2.222345463	0.673044951	-0.571225
GYPE	3.301927249	2.222345463	0.673044951	-0.571225
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KLRC3	3.301927249	2.222345463	0.673044951	-0.571225
IGKJ4	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
MAGEA12	3.301927249	2.222345463	0.673044951	-0.571225
EXOC3-AS1	3.301927249	2.222345463	0.673044951	-0.571225
TCAF1P1	3.301927249	2.222345463	0.673044951	-0.571225
RBM48P1	3.301927249	2.222345463	0.673044951	-0.571225
IGSF3P2	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
COX7BP3	3.301927249	2.222345463	0.673044951	-0.571225
CYCSP24	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
MRPS18CP6	3.301927249	2.222345463	0.673044951	-0.571225
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LINC02937	3.301927249	2.222345463	0.673044951	-0.571225
FARP1-AS1	3.301927249	2.222345463	0.673044951	-0.571225
LINC00899	3.301927249	2.222345463	0.673044951	-0.571225
RPS27AP5	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
CYP2T1P	3.301927249	2.222345463	0.673044951	-0.571225
SNX19P2	3.301927249	2.222345463	0.673044951	-0.571225
RPL5P9	3.301927249	2.222345463	0.673044951	-0.571225
ELOA-AS1	3.301927249	2.222345463	0.673044951	-0.571225
DCLRE1CP1	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
PTPN11P1	3.301927249	2.222345463	0.673044951	-0.571225
EEF1A1P4	3.301927249	2.222345463	0.673044951	-0.571225
DNAH10OS	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
SCARNA1	3.301927249	2.222345463	0.673044951	-0.571225
GPAT4-AS1	3.301927249	2.222345463	0.673044951	-0.571225
LRRC2	8.298265334	5.555863657	1.493604927	0.578799
OR4M1	8.298265334	5.555863657	1.493604927	0.578799
ACCSL	8.298265334	5.555863657	1.493604927	0.578799
ENSG000002	8.298265334	5.555863657	1.493604927	0.578799
ENSG000002	8.298265334	5.555863657	1.493604927	0.578799
PILRB	6.638612267	4.444690926	1.493604927	0.578799
AGTR1	6.638612267	4.444690926	1.493604927	0.578799
PYHIN1	6.638612267	4.444690926	1.493604927	0.578799
FABP12	6.638612267	4.444690926	1.493604927	0.578799
STMND1	6.638612267	4.444690926	1.493604927	0.578799
PEG10	6.638612267	4.444690926	1.493604927	0.578799
MAPK6P5	6.638612267	4.444690926	1.493604927	0.578799
LINC02321	6.638612267	4.444690926	1.493604927	0.578799
SYNPO2L-A	6.638612267	4.444690926	1.493604927	0.578799
LINC03026	6.638612267	4.444690926	1.493604927	0.578799
ARHGEF5	3.319306133	2.222345463	1.493604927	0.578799
PNPLA5	3.319306133	2.222345463	1.493604927	0.578799
OCA2	3.319306133	2.222345463	1.493604927	0.578799
SDHB	3.319306133	2.222345463	1.493604927	0.578799
TCN1	3.319306133	2.222345463	1.493604927	0.578799
WDR38	3.319306133	2.222345463	1.493604927	0.578799
LRTM1	3.319306133	2.222345463	1.493604927	0.578799
BDH1	3.319306133	2.222345463	1.493604927	0.578799
NAXE	3.319306133	2.222345463	1.493604927	0.578799
OR8J3	3.319306133	2.222345463	1.493604927	0.578799
GLULP4	3.319306133	2.222345463	1.493604927	0.578799
OR1D2	3.319306133	2.222345463	1.493604927	0.578799
LINC01551	3.319306133	2.222345463	1.493604927	0.578799
KRTDAP	3.319306133	2.222345463	1.493604927	0.578799
ENSG000001	3.319306133	2.222345463	1.493604927	0.578799
POTEKP	3.319306133	2.222345463	1.493604927	0.578799
ERICH4	3.319306133	2.222345463	1.493604927	0.578799
SNORD116-	3.319306133	2.222345463	1.493604927	0.578799
ARF1P2	3.319306133	2.222345463	1.493604927	0.578799
RPL7AP60	3.319306133	2.222345463	1.493604927	0.578799
RPL13AP7	3.319306133	2.222345463	1.493604927	0.578799
LINC02981	3.319306133	2.222345463	1.493604927	0.578799
DHRS4-AS1	3.319306133	2.222345463	1.493604927	0.578799
TCAF1P1	3.319306133	2.222345463	1.493604927	0.578799
RPL15P11	3.319306133	2.222345463	1.493604927	0.578799
NDUFA4P1	3.319306133	2.222345463	1.493604927	0.578799
RPF2P1	3.319306133	2.222345463	1.493604927	0.578799
PGM5P4	3.319306133	2.222345463	1.493604927	0.578799
SUB1P1	3.319306133	2.222345463	1.493604927	0.578799
C1DP1	3.319306133	2.222345463	1.493604927	0.578799
BCAS2P2	3.319306133	2.222345463	1.493604927	0.578799
YWHAEP5	3.319306133	2.222345463	1.493604927	0.578799
NSRP1P1	3.319306133	2.222345463	1.493604927	0.578799
MAP3K2-DT	3.319306133	2.222345463	1.493604927	0.578799
RPS28P4	3.319306133	2.222345463	1.493604927	0.578799
KIAA1328P1	3.319306133	2.222345463	1.493604927	0.578799
ENSG000000	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
CCNL2P1	3.319306133	2.222345463	1.493604927	0.578799
C5orf34-AS1	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
LINC02055	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
KDM2B-DT	3.319306133	2.222345463	1.493604927	0.578799
PHB1P19	3.319306133	2.222345463	1.493604927	0.578799
HERC2P8	3.319306133	2.222345463	1.493604927	0.578799
BRCA1P1	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
C17orf50	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
XKR5	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
TSC22D1-AS	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
ENSG000002	3.319306133	2.222345463	1.493604927	0.578799
F7	1.659653067	1.111172731	1.493604927	0.578799
IGF2-AS	1.659653067	1.111172731	1.493604927	0.578799
SERPINA4	1.659653067	1.111172731	1.493604927	0.578799
CASP14	1.659653067	1.111172731	1.493604927	0.578799
SIGLEC6	1.659653067	1.111172731	1.493604927	0.578799
CLEC4A	1.659653067	1.111172731	1.493604927	0.578799
NKX2-3	1.659653067	1.111172731	1.493604927	0.578799
DEFB126	1.659653067	1.111172731	1.493604927	0.578799
FFAR1	1.659653067	1.111172731	1.493604927	0.578799
NEDD8	1.659653067	1.111172731	1.493604927	0.578799
REG3G	1.659653067	1.111172731	1.493604927	0.578799
IL9	1.659653067	1.111172731	1.493604927	0.578799
VIP	1.659653067	1.111172731	1.493604927	0.578799
VAX1	1.659653067	1.111172731	1.493604927	0.578799
GAS2	1.659653067	1.111172731	1.493604927	0.578799
RIT2	1.659653067	1.111172731	1.493604927	0.578799
DSPP	1.659653067	1.111172731	1.493604927	0.578799
NAA11	1.659653067	1.111172731	1.493604927	0.578799
TMEM130	1.659653067	1.111172731	1.493604927	0.578799
LALBA	1.659653067	1.111172731	1.493604927	0.578799
C19orf33	1.659653067	1.111172731	1.493604927	0.578799
OR5I1	1.659653067	1.111172731	1.493604927	0.578799
RNF139	1.659653067	1.111172731	1.493604927	0.578799
GABPA	698.9079343	836.4651456	1.196817355	0.259203
SRP72	1650.963624	1975.816976	1.196765905	0.259141
PGBD4	69.34047223	82.98265334	1.19674197	0.259112
PPIL4	1434.137068	1716.081271	1.196595018	0.258935
TAFAZZIN	50.62955115	60.57733694	1.196481809	0.258798
CHM	716.518213	857.210809	1.196355924	0.258647
GIN1	178.3040714	213.2654191	1.196077113	0.25831
GTF2A2	403.9357668	482.9590424	1.195633272	0.257775
PNPLA8	753.9400552	901.1916152	1.195309374	0.257384
BCL2L2	148.5867262	177.5828781	1.195146314	0.257187
ZNF731P	58.33404806	69.7054288	1.194935567	0.256933
GADD45A	143.0835141	170.9442659	1.194716714	0.256669
OSTF1	652.6809529	779.2071148	1.193856066	0.255629
NEK7	607.5546138	725.2683902	1.193750115	0.255501
TCEA1P2	211.3233439	252.2672661	1.193750115	0.255501
RNF165	39.62312699	47.3001124	1.193750115	0.255501
NSFP1	39.62312699	47.3001124	1.193750115	0.255501
STK11IP	171.7002169	204.9671537	1.193750115	0.255501
ERMARD	13.207709	15.76670413	1.193750115	0.255501
ENSG000002	13.207709	15.76670413	1.193750115	0.255501
TRMT61B	364.3126398	434.8291035	1.1935603	0.255271
STMP1	351.1049308	419.0623993	1.193553159	0.255263
ERCC4	424.8479727	507.0240119	1.193424577	0.255107
FTH1	7804.655374	9313.143184	1.193280515	0.254933
ZNF32	342.2997915	408.2746544	1.192740003	0.25428
TMEM165	1342.783748	1601.565209	1.192720132	0.254256
MAP4K5	1939.331938	2312.726548	1.192537752	0.254035
CCDC9	202.5182046	241.4795212	1.192384268	0.253849
NGLY1	785.8586852	936.8741562	1.192166192	0.253585
AHCTF1P1	386.3254881	460.553726	1.192139116	0.253553
MARVELD3	81.44753881	97.0897044	1.192052035	0.253447
SMPDL3B	115.5674537	137.7512045	1.191955002	0.25333
RPL21	1013.691665	1208.227433	1.191908224	0.253273
CASTOR3P	212.4239863	253.0970927	1.191471345	0.252744
TMTC3	1001.584599	1193.290555	1.19140266	0.252661
NPLOC4	1349.387602	1607.373995	1.19118776	0.252401
SUCO	1391.212014	1657.163587	1.19116538	0.252374
CAPRIN2	1692.788036	2015.64865	1.190727136	0.251843
BRPF1	680.1970133	809.9106966	1.190700166	0.25181
XPNPEP1	646.0770984	769.2491964	1.190646129	0.251745
CDC42EP4	243.241974	289.6094601	1.190622882	0.251717
TMEM151A	20.91220591	24.894796	1.190443328	0.251499
UXT	313.6830886	373.42194	1.190443328	0.251499
ISM1	83.64882364	99.579184	1.190443328	0.251499
RPL5	2183.674554	2599.016703	1.190203319	0.251208
PER3	1326.274112	1578.330066	1.19004816	0.25102
PARD3	2004.26984	2384.921457	1.189920344	0.250865
PIP4K2C	489.7858753	582.5382264	1.189373267	0.250202
TBP	468.8736693	557.6434304	1.189325541	0.250144
YIPF4	335.695937	399.1465625	1.189012194	0.249764
KIF5B	8002.771009	9513.131379	1.188729675	0.249421
ZNF263	397.3319123	472.1712975	1.188354831	0.248966
TIGD1	101.2591023	120.3248473	1.188286728	0.248883
PLAAT3	275.1606041	326.9516541	1.188221167	0.248803
NFKBIE	36.32119974	43.15097974	1.188038392	0.248581
CTBP1-DT	36.32119974	43.15097974	1.188038392	0.248581
ZBTB46	108.9635992	129.4529392	1.188038392	0.248581
MRPL9	241.0406892	286.290154	1.187725421	0.248201
RPS6KB2	176.1027866	209.1162864	1.18746722	0.247888
EIF2S2P4	44.02569665	52.2790716	1.18746722	0.247888
DAP	1644.35977	1952.581833	1.187441987	0.247857
RAB11FIP1	970.7666112	1152.629055	1.187338997	0.247732
ADCY3	591.0449776	701.2034207	1.186379121	0.246565
IFT88	391.8287002	464.7028587	1.185984739	0.246085
TMEM62	234.4368347	277.9918887	1.185785882	0.245844
CARD8	409.4389789	485.448522	1.185643153	0.24567
GDE1	686.8008678	814.0598292	1.185292371	0.245243
NSMCE4A	367.614567	435.65893	1.185097026	0.245005
POT1	467.7730269	554.3241243	1.185027978	0.244921
GFM2	490.8865177	581.7083999	1.185016045	0.244907
ADGRG7	7.704496914	9.128091867	1.18477455	0.244613
FUOM	7.704496914	9.128091867	1.18477455	0.244613
POLR2J2	7.704496914	9.128091867	1.18477455	0.244613
ENSG000002	7.704496914	9.128091867	1.18477455	0.244613
RPL7AP70	7.704496914	9.128091867	1.18477455	0.244613
MIR130AHG	7.704496914	9.128091867	1.18477455	0.244613
FAM157C	7.704496914	9.128091867	1.18477455	0.244613
TUFMP1	7.704496914	9.128091867	1.18477455	0.244613
NSUN5P2	7.704496914	9.128091867	1.18477455	0.244613
TUBGCP2	1001.584599	1186.651943	1.18477455	0.244613
CDR2L	84.74946605	100.4090105	1.18477455	0.244613
DUSP19	38.52248457	45.64045934	1.18477455	0.244613
PGRMC2	980.6723929	1161.757147	1.184653667	0.244465
HSPA9	2975.036451	3524.273287	1.184615162	0.244418
TXLNG	217.9271984	258.0760519	1.184230577	0.24395
REPS1	1237.122076	1464.643831	1.18391213	0.243562
SRRT	1623.447564	1921.878251	1.18382527	0.243456
ZNF273	94.6552478	112.026582	1.183522146	0.243087
ALDH7A1	647.1777408	765.9298903	1.183492327	0.24305
MUC4	450.1627483	532.7486344	1.183457842	0.243008
SS18L1	260.8522527	308.6954704	1.183411173	0.242951
FMO2	71.54175706	84.6423064	1.183117523	0.242593
PACSIN3	168.3982897	199.158368	1.182662653	0.242039
ADH5	395.1306275	467.1923383	1.182374399	0.241687
FAM168A	887.1177875	1048.900738	1.182369188	0.241681
SPICE1	48.42826632	57.2580308	1.182326669	0.241629
HGS	420.445403	497.0660935	1.182236956	0.241519
MALSU1	186.0085684	219.9040313	1.182225278	0.241505
SCD	731.9272068	864.6792478	1.181373284	0.240465
DNAI3	33.01927249	39.00184707	1.181184324	0.240234
ZNG1C	66.03854498	78.00369414	1.181184324	0.240234

LINC02055	3.301927249	2.222345463	0.673044951	-0.571225
SF3A3P2	3.301927249	2.222345463	0.673044951	-0.571225
CAPNS2	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
KLF17P1	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
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TUBAP11	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
PYCARD-AS	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
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LINC00683	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
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SNORA28	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002	3.301927249	2.222345463	0.673044951	-0.571225
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FAM169BP	3.301927249	2.222345463	0.673044951	-0.571225
LINC02801	3.301927249	2.222345463	0.673044951	-0.571225
C2orf81	3.301927249	2.222345463	0.673044951	-0.571225
ENSG000002

ARHGEF3	374.2184215	250.0138646	0.668096091	-0.581872
C5orf22	370.9164943	247.7915191	0.668052036	-0.581968
BTBD1	1092.937919	730.0404846	0.66796153	-0.582163
ATP5F1C	1161.177749	775.5985665	0.667941292	-0.582207
DIAPH1	1478.162765	986.7213855	0.667532297	-0.58309
SPATS2	396.2312699	264.4591101	0.667436243	-0.583298
SUZ12	759.4432672	506.6947655	0.667192386	-0.583825
CALCRL	126.5738779	84.44912759	0.667192386	-0.583825
TCHP	184.9079259	123.3401732	0.667035621	-0.584164
CCDC137	61.63597531	41.11339106	0.667035621	-0.584164
GCFC2	421.5460454	281.1267011	0.66689441	-0.58447
HCFC2	593.2462624	395.5774924	0.666801491	-0.584671
NUCKS1	5503.212081	3669.092359	0.666718328	-0.584851
ZNF626	175.0021442	116.6731368	0.66669547	-0.5849
SPR	58.33404806	38.8910456	0.66669547	-0.5849
PRKCD	1846.877975	1231.179386	0.666627359	-0.585048
RAB14	783.6574004	522.2511838	0.666427936	-0.585479
TCEA1	948.7537628	632.2572842	0.666408197	-0.585522
THYN1	278.4625313	185.5658462	0.666394309	-0.585552
KCTD18	498.5910146	332.2406467	0.666359074	-0.585628
DPP8	935.5460539	623.3679023	0.666314501	-0.585725
KLF8	165.0963624	110.0061004	0.666314501	-0.585725
REPS2	2261.820165	1506.750224	0.666167119	-0.586044
PHGDH	355.5075005	236.6797918	0.665751894	-0.586943
GATA6	100.1584599	66.67036389	0.665648852	-0.587167
TAF13	248.7451861	165.564737	0.665599763	-0.587273
IQCE	490.8865177	326.684783	0.665499604	-0.58749
DEPTOR	587.7430503	391.1328015	0.665482648	-0.587527
MSL3	945.4518356	628.923766	0.665209736	-0.588119
SCMH1	1880.997889	1251.180496	0.665168474	-0.588208
SERPINB8	45.12633907	30.00166375	0.664837086	-0.588927
GFRA2	45.12633907	30.00166375	0.664837086	-0.588927
DDX60L	489.7858753	325.5736103	0.664726418	-0.589167
MAP6	260.8522527	173.3429461	0.664525394	-0.589604
ST7L	685.7002254	455.5808199	0.664402319	-0.589871
HRH2	41.82441182	27.77931829	0.664189096	-0.590334
BAZ2A	4047.062165	2687.926837	0.66416742	-0.590381
DPY19L1	247.6445437	164.4535643	0.664071018	-0.590591
ZFP3	366.5139246	243.3468282	0.663949749	-0.590854
PARGP1	80.34689639	53.33629111	0.663825157	-0.591125
PDCD6IP	3044.376923	2020.112026	0.663555163	-0.591712
DUSP19	38.52248457	25.55697282	0.663430023	-0.591984
SAP30BP	534.9122143	354.4641013	0.662658455	-0.593663
FLVCR1	390.7280578	258.9032464	0.662617494	-0.593752
CDKAL1	496.3897298	328.9071285	0.662598577	-0.593793
TOX3	208.0214167	137.7854187	0.662361698	-0.594309
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CPEB4	1803.95292	1193.399514	0.661546928	-0.596085
CLHC1	319.1863007	211.122819	0.661440728	-0.596316
NSL1	819.9786001	542.2522929	0.661300542	-0.596622
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SMARCD1	544.8179961	360.019965	0.66080777	-0.597697
DHX29	1172.184173	774.4873938	0.660721593	-0.597886
EDEM3	1770.933648	1170.064886	0.660705096	-0.597922
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GIN1	178.3040714	117.7843095	0.660581155	-0.598192
TWF1	974.0685384	643.3690115	0.660496655	-0.598377
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GJC2	57.23340565	37.77987287	0.660101779	-0.59924
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ADAMTSL3	28.61670282	18.88993643	0.660101779	-0.59924
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BLTP3B	2108.83087	1391.18826	0.65969646	-0.600126
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SRP54	1303.160621	857.8253487	0.658265248	-0.603259
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COMMD1	97.95717505	64.44801842	0.657920345	-0.604015
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TMEM68	341.1991491	224.4568918	0.657847162	-0.604176
NME7	413.8415485	272.2373192	0.657829839	-0.604214
PPIH	217.9271984	143.3412824	0.657748475	-0.604392
QKI	956.4582598	628.923766	0.657554848	-0.604817
PSPC1	1117.152053	734.4851755	0.657462137	-0.60502
PJVK	47.3276239	31.11283648	0.657392743	-0.605173
RSRC1	302.6766645	198.8999189	0.657136616	-0.605735
PAQR7	160.6937928	105.5614095	0.656910312	-0.606232
UTP25	595.4475472	391.1328015	0.656871967	-0.606316
TRIQK	176.1027866	115.5619641	0.656218827	-0.607751
LYL1	22.01284833	14.44524551	0.656218827	-0.607751
POLR2J	286.1670282	187.7881916	0.656218827	-0.607751
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CRKL	436.9550393	286.6825647	0.656091678	-0.608031
FAM135A	911.3319207	597.8109295	0.65597497	-0.608287

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FIGNL2	12.10706658	14.10705107	1.1651915	0.220567
PHF5AP1	12.10706658	14.10705107	1.1651915	0.220567
ICA1L	365.4132822	425.7010116	1.164985052	0.220311
ARHGAP44	379.7216336	442.2975423	1.164794163	0.220075
PIKFYVE	2417.010746	2814.771601	1.164567268	0.219794
ZNF142	1326.274112	1544.307179	1.164395177	0.219581
TMCO3	758.3426248	882.9354315	1.164296194	0.219458
SPTLC1	1617.944352	1883.706231	1.164258974	0.219412
FAR1	1023.597447	1191.630902	1.164159705	0.219289
TYRO3	62.73661773	73.02473494	1.163989032	0.219077
PDPK1	352.2055732	409.9343075	1.163906362	0.218975
CYFIP2	1350.488245	1571.691454	1.163794991	0.218837
CCAR2	621.8629652	723.6087371	1.163614458	0.218613
XRCC6	2250.813741	2618.932539	1.163549205	0.218532
SRA1	127.6745203	148.5389495	1.163418896	0.218371
ATP6V0E1	562.4282747	653.9033083	1.162643021	0.217408
RTCA	379.7216336	441.4677158	1.162608808	0.217366
ERP44	1799.550351	2091.992691	1.162508562	0.217241
SCAF8	3205.070716	3725.091308	1.162249335	0.21692
NCLN	225.6316953	262.2251845	1.162182397	0.216837
CTBP2	744.0342734	864.6792478	1.162149754	0.216796
AP4B1	280.6638162	326.1218276	1.161966056	0.216568
ZNF451	1838.072835	2135.14367	1.161620818	0.216139
RIPK2-DT	162.8950776	189.2004496	1.161486598	0.215973
HIPK1	2716.385483	3155.00048	1.161470086	0.215952
SDF4	619.6616804	719.4596044	1.161052276	0.215433
PLD1	389.6274154	452.2554607	1.160738292	0.215043
LRRC7	97.95717505	113.6862351	1.16057078	0.214835
PLEKHF2	336.7965794	390.8482972	1.160487728	0.214731
NSFL1C	716.518213	831.4861864	1.160453665	0.214689
GORAB	155.1905807	180.0723577	1.160330459	0.214536
ISCA2	155.1905807	180.0723577	1.160330459	0.214536
ZNF329	338.9978642	393.3377768	1.160295737	0.214493
SOX18	42.92505424	49.789592	1.15991914	0.214024
ZKSCAN5	214.6252712	248.94796	1.15991914	0.214024
NUDT8	71.54175706	82.98265334	1.15991914	0.214024
KCNH5	14.30835141	16.59653067	1.15991914	0.214024
PPP1CB-DT	14.30835141	16.59653067	1.15991914	0.214024
FBXL19-AS1	14.30835141	16.59653067	1.15991914	0.214024
CLPP	171.7002169	199.158368	1.15991914	0.214024
ABHD8	116.6680961	135.2617249	1.159372009	0.213344
OSBPL8	2204.58676	2555.865723	1.159340049	0.213304
CSNK1G1	147.4860838	170.9442659	1.159053529	0.212947
DCUN1D1	729.725922	845.5932375	1.158781965	0.212609
FKBP7	239.9400468	277.9918887	1.158588958	0.212369
RWDD4	121.0706658	140.2406841	1.158337432	0.212056
REX1BD	75.94432672	87.96161254	1.158238098	0.211932
ZNF137P	30.81798766	35.68254093	1.157847856	0.211446
TAFA2	30.81798766	35.68254093	1.157847856	0.211446
EEF1B2P6	30.81798766	35.68254093	1.157847856	0.211446
DAAM1	1293.254839	1497.007066	1.157549944	0.211074
JCAD	456.7666028	528.5995018	1.157263904	0.210718
RCCD1	63.83726015	73.85456147	1.156919349	0.210288
YWHAH	576.7366261	667.1805328	1.15682012	0.210165
ATL3	1186.492525	1372.533086	1.156798764	0.210138
HNRNPA1	3014.659578	3486.931093	1.156658323	0.209963
ETS1	548.1199233	633.9874715	1.156658323	0.209963
SCO1	484.2826632	560.13291	1.156623915	0.20992
NDUFV2	193.7130653	224.053164	1.156623915	0.20992
ELOA	810.0728184	936.8741562	1.156530789	0.209804
TMEM150C	146.3854414	169.2846128	1.156430662	0.209679
ITSN1	1529.892959	1769.190169	1.156414349	0.209658
TACO1	16.50963624	19.08601027	1.156052743	0.209207
C3orf33	16.50963624	19.08601027	1.156052743	0.209207
PAIP1P2	16.50963624	19.08601027	1.156052743	0.209207
CAPN14	16.50963624	19.08601027	1.156052743	0.209207
RPL35P1	16.50963624	19.08601027	1.156052743	0.209207
ENSG000002	16.50963624	19.08601027	1.156052743	0.209207
COMMD9	82.54818122	95.43005134	1.156052743	0.209207
DENND6A	511.7987236	591.6663183	1.156052743	0.209207
PI4K2B	270.7580344	312.8446031	1.155439778	0.208442
CREB5	84.74946605	97.91953094	1.155399975	0.208392
SEC23B	1759.927224	2033.075007	1.155204022	0.208148
TOR4A	51.73019357	59.7475104	1.154983314	0.207872
PSEN1	1097.340489	1267.145116	1.154741969	0.207571
SLC6A8	209.1220591	241.4795212	1.154730028	0.207556
GTF2F1	700.0085768	808.2510435	1.154630201	0.207431
MAP1S	490.8865177	566.7715223	1.154587673	0.207378
ENSG000001	35.22055732	40.66150013	1.154482019	0.207246
VASH2	89.15203572	102.8984901	1.154191144	0.206882
PACSIN1	53.9314784	62.23699	1.154001185	0.206645
RIPK1	709.9143585	819.0387884	1.153714922	0.206287
QTRT2	327.9914401	378.4008992	1.153691386	0.206257
RTF1	491.9871601	567.6013488	1.153691386	0.206257
HCFC1	5269.875889	6078.479357	1.153438807	0.205941
PRCC	589.9443351	680.4577574	1.153427055	0.205927
ZNF799	149.6873686	172.6039189	1.153096086	0.205513
TPM3P9	18.71092108	21.57548987	1.153096086	0.205513
RTEL1	18.71092108	21.57548987	1.153096086	0.205513
GOSR1	748.4368431	863.0195947	1.153096086	0.205513
ZNF750	56.13276323	64.7264696	1.153096086	0.205513
SPEN	14006.77539	16150.08399	1.153019417	0.205417
OSBPL2	778.1541883	897.0424826	1.152782438	0.20512
ZNF500	133.1777324	153.5179087	1.152729559	0.205054
ZBTB25	366.5139246	422.3817055	1.152430173	0.204679
COA5	212.4239863	244.7988273	1.152406711	0.20465
ZNF134	429.2505424	494.5766139	1.152186346	0.204374
FBXW2	1327.374754	1529.370301	1.152176728	0.204362
WDCP	277.3618889	319.4832153	1.151864146	0.203971

CCN1	867.306224	568.9204385	0.655962592	-0.608315
KDM4C	1582.723795	1037.835331	0.655727383	-0.608832
USP6NL	1142.466828	748.930421	0.655538001	-0.609249
SBNO1	3590.295562	2353.463845	0.655506992	-0.609317
MYLIP	671.3918739	440.0244016	0.655391313	-0.609572
THUMPD3	649.3790256	425.5791561	0.655363261	-0.609633
STC2	62.73661773	41.11339106	0.655333242	-0.609699
NOC3L	266.3554647	174.4541188	0.654967297	-0.610505
PPIC	347.8030036	227.7904099	0.654940894	-0.610563
GLI3	1976.75378	1294.516232	0.654869739	-0.61072
CD72	40.7237694	26.66814555	0.654854547	-0.610754
MTMR6	366.5139246	240.01331	0.654854547	-0.610754
MORC2	1240.424003	812.2672667	0.654830336	-0.610807
BPTF	7488.771	4903.605264	0.654794393	-0.610886
DNTTIP2	1318.569615	863.3812123	0.654786219	-0.610904
CAPZA2	707.7130737	463.359029	0.654727242	-0.611034
MATN2	1130.359762	740.0410391	0.654695137	-0.611105
HMBOX1	745.1349158	487.8048291	0.654653028	-0.611198
ZNF765	241.0406892	157.7865279	0.654605363	-0.611303
PLBD1	341.1991491	223.345719	0.654590493	-0.611335
SYNE2	10343.83743	6770.375453	0.654532276	-0.611464
ERC1	1528.792316	1000.055458	0.65414736	-0.612312
RSL1D1	1622.346922	1061.169959	0.654095585	-0.612427
ADAM23	115.5674537	75.55974574	0.653815095	-0.613045
RTCB	1067.623144	697.8164753	0.653616849	-0.613483
KMT5B	2714.184199	1773.431679	0.653394003	-0.613975
PEX5	37.42184215	24.44580009	0.653249511	-0.614294
CABYR	37.42184215	24.44580009	0.653249511	-0.614294
LEKR1	37.42184215	24.44580009	0.653249511	-0.614294
CNTN6	18.71092108	12.22290005	0.653249511	-0.614294
IDO2	18.71092108	12.22290005	0.653249511	-0.614294
TMEM51	183.8072835	120.006655	0.652893904	-0.61508
PRKAR1A	3161.04502	2062.33659	0.652422404	-0.616122
ITGB3BP	124.372593	81.11560939	0.652198426	-0.616617
ACAT2	388.526773	253.3473828	0.652071879	-0.616897
PHLDA3	52.83083598	34.44635467	0.652012296	-0.617029
C1orf162	121.0706658	78.89326393	0.651629884	-0.617875
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RPL10P6	170.5995745	111.1172731	0.651333823	-0.618531
MPP4	34.11991491	22.22345463	0.651333823	-0.618531
MAD2L1	34.11991491	22.22345463	0.651333823	-0.618531
YLPM1	7914.719616	5153.619128	0.651143613	-0.618952
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TEF	222.3297681	144.4524551	0.649721611	-0.622106
BRD1	1549.704522	1006.722495	0.649622222	-0.622327
SUN2	1163.379034	755.5974574	0.649485194	-0.622631
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MTIF2	953.1563325	618.9232114	0.649340712	-0.622952
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DDX1	1742.316945	1131.173841	0.649235401	-0.623186
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MROH9	15.40899383	10.00055458	0.649007631	-0.623693
SERPINC1	15.40899383	10.00055458	0.649007631	-0.623693
WNT10B	15.40899383	10.00055458	0.649007631	-0.623693
ENSG000002	15.40899383	10.00055458	0.649007631	-0.623693
TFCP2	1294.355482	840.046585	0.649007631	-0.623693
TDP1	351.1049308	227.7904099	0.648781575	-0.624195
PLCB2	335.695937	217.7898554	0.648771199	-0.624218
RFC2	197.0149925	127.7848641	0.648604771	-0.624588
DST	21537.3708	13965.21889	0.648417999	-0.625004
STAT1	3441.708836	2231.234845	0.648292738	-0.625283
FTH1	7804.655374	5059.169446	0.648224579	-0.625434
EOMES	89.15203572	57.78098203	0.64811736	-0.625673
ZNF510	608.6552562	394.4663197	0.648094822	-0.625723
ANKRD40	799.0663942	517.8064929	0.648014353	-0.625902
SIK2	1016.993593	658.9254297	0.647915026	-0.626123
ZC3H6	780.3554732	505.5835928	0.647888828	-0.626182
SRRD	279.5631737	181.1211552	0.64787201	-0.626219
INAVA	58.33404806	37.77987287	0.647647028	-0.62672
EPB41L4B	700.0085768	453.3584744	0.647647028	-0.62672
R3HDM2	700.0085768	453.3584744	0.647647028	-0.62672
RGMB	669.1905891	433.3573653	0.647584369	-0.62686
ZNF706	607.5546138	393.3551469	0.64743998	-0.627182
CDC26P1	42.92505424	27.77931829	0.647158607	-0.627809
CDC16	714.3169282	462.2478563	0.64711872	-0.627898
BIN1	266.3554647	172.2317734	0.646623765	-0.629002
DNAJC5	364.3126398	235.5686191	0.646611161	-0.62903
ACAA2	97.95717505	63.33684569	0.646576891	-0.629106
GSAP	293.8715252	190.0105371	0.646576891	-0.629106
MMS22L	223.4304105	144.4524551	0.646521012	-0.629231
PFKFB4	125.4732355	81.11560939	0.646477387	-0.629328
PCNA	627.3661773	405.578047	0.646477387	-0.629328
NOB1	376.4197064	243.3468282	0.646477387	-0.629328
GDPGP1	55.03212081	35.55752741	0.646123153	-0.630119
MXRA7P1	27.51606041	17.7787637	0.646123153	-0.630119
RIN2	1262.436851	815.6007849	0.646052738	-0.630276
RIMS2	244.3426164	157.7865279	0.645759345	-0.630931
CNOT1	5873.027933	3792.432532	0.645737186	-0.630981
SMPD3	94.6552478	61.11450023	0.645653587	-0.631168
FKBP11	94.6552478	61.11450023	0.645653587	-0.631168
SHMT2	335.695937	216.6786826	0.645461141	-0.631598
EXPH5	1879.897247	1213.400623	0.645461141	-0.631598
CD200	67.13918739	43.33573653	0.645461141	-0.631598
CEACAM19	67.13918739	43.33573653	0.645461141	-0.631598
SAR1B	427.0492575	275.5708374	0.64529052	-0.631979
AHI1	2600.81803	1677.870824	0.645131957	-0.632334
CAPN3	39.62312699	25.55697282	0.645001411	-0.632626
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MESD	603.1520441	388.910456	0.644796714	-0.633084
TSR1	1282.248415	826.7125122	0.644736622	-0.633218
VN1R80P	1.659653067	1.111172731	1.493604927	0.578799
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OR7A8P	1.659653067	1.111172731	1.493604927	0.578799
PLEKHA3P1	1.659653067	1.111172731	1.493604927	0.578799
ENSG000002	1.659653067	1.111172731	1.493604927	0.578799
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FAM169A-A	1.659653067	1.111172731	1.493604927	0.578799
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CPVL-AS2	1.659653067	1.111172731	1.493604927	0.578799
EIF2B5-DT	1.659653067	1.111172731	1.493604927	0.578799
ADIRF-AS1	1.659653067	1.111172731	1.493604927	0.578799
ENSG000002	1.659653067	1.111172731	1.493604927	0.578799
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7SK	1.659653067	1.111172731	1.493604927	0.578799
RIMBP3B	1.659653067	1.111172731	1.493604927	0.578799
Metazoa_SRI	1.659653067	1.111172731	1.493604927	0.578799
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HNF1B	1.659653067	1.111172731	1.493604927	0.578799
ENSG000002	1.659653067	1.111172731	1.493604927	0.578799
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FLJ16779	1.659653067	1.111172731	1.493604927	0.578799
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CTBP1-AS	1.659653067	1.111172731	1.493604927	0.578799
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FASTKD5	575.6359837	371.1316923	0.644733309	-0.633226
ADGRE5	386.3254881	248.9026918	0.644282346	-0.634235
OSGEP	63.83726015	41.11339106	0.644034393	-0.63479
RPL18AP3	63.83726015	41.11339106	0.644034393	-0.63479
SMAD7	203.618847	131.1183823	0.643940304	-0.635001
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ID2	288.3683131	185.5658462	0.643502901	-0.635981
HBP1	184.9079259	118.8954823	0.642998301	-0.637113
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INO80C	36.32119974	23.33462736	0.642451999	-0.638339
NAP1L4	24.21413316	15.55641824	0.642451999	-0.638339
ZPBP2	12.10706658	7.77820912	0.642451999	-0.638339
GNAT3	12.10706658	7.77820912	0.642451999	-0.638339
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FRG1EP	12.10706658	7.77820912	0.642451999	-0.638339
GP2	157.3918655	101.1167186	0.642451999	-0.638339
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TNRC6C	1923.922944	1235.624077	0.642241978	-0.638811
COL4A4	335.695937	215.5675099	0.642151084	-0.639015
ALPK3	117.7687385	75.55974574	0.641594252	-0.640267
CPSF2	1608.03857	1031.168295	0.641258434	-0.641022
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CHRAC1	138.6809445	88.89381852	0.640995191	-0.641615
LUZP2	138.6809445	88.89381852	0.640995191	-0.641615
PCM1	4001.935826	2564.586664	0.640836529	-0.641972
TAF5	114.4668113	73.33740027	0.640687021	-0.642308
HACD3	924.5396297	592.2550659	0.640594569	-0.642517
RAB11FIP2	855.1991575	547.8081566	0.640562086	-0.64259
RNF13	1146.869398	734.4851755	0.64042617	-0.642896
NT5C3A	147.4860838	94.44968217	0.640397248	-0.642961
RECQL	487.5845904	312.2395375	0.640380241	-0.642999
SERPINH1	1507.88011	965.6091036	0.640375251	-0.643011
CFAP97	1070.925071	685.5935753	0.640188183	-0.643432
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NHS	753.9400552	482.2489654	0.63963834	-0.644672
TPM3	321.3875856	205.5669553	0.639623198	-0.644706
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CEP76	152.9892959	97.78320037	0.639150601	-0.645772
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CAMSAP2	2112.132797	1348.963696	0.638673713	-0.646849
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BOLA3	74.84368431	47.78042745	0.638402931	-0.647461
STON2	846.3940181	540.0299475	0.638036111	-0.64829
RFC1	2607.421884	1663.425579	0.637957973	-0.648467
IMP4	179.4047139	114.4507913	0.637947515	-0.64849
POMGNT2	505.1948691	322.2400921	0.637853058	-0.648704
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CACHD1	1174.385458	748.930421	0.63772113	-0.649002
TRAK1	669.1905891	426.6903289	0.637621532	-0.649228
COL19A1	41.82441182	26.66814555	0.637621532	-0.649228
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PCGF6	20.91220591	13.33407278	0.637621532	-0.649228
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EMCN	62.73661773	40.00221833	0.637621532	-0.649228
ISOC1	250.9464709	160.0088733	0.637621532	-0.649228
TUT4	5109.182096	3255.736103	0.637232348	-0.650109
USPL1	671.3918739	427.8015016	0.637185999	-0.650214
WDCP	277.3618889	176.6764643	0.636988971	-0.65066
CYBRD1	1219.511797	776.7097393	0.636902194	-0.650856
ARIH2	849.6959454	541.1411202	0.636864426	-0.650942
IP6K2	1186.492525	755.5974574	0.636832885	-0.651013
ECHDC1	565.730202	360.019965	0.636381024	-0.652037
GPR89B	282.865101	180.0099825	0.636381024	-0.652037
STARD9	1018.094235	647.8137024	0.636300335	-0.65222
PTPN1	1208.505373	768.9315302	0.636266538	-0.652297
PAPOLG	541.5160688	344.4635467	0.636109557	-0.652653
CD9	2450.030019	1557.864169	0.635855135	-0.65323
GALNT10	674.6938012	428.9126743	0.635714562	-0.653549
GMPPB	208.0214167	132.229555	0.635653565	-0.653687
EBLN2	59.43469048	37.77987287	0.635653565	-0.653687
TBC1D10C	29.71734524	18.88993643	0.635653565	-0.653687
MAP3K13	528.3083598	335.5741649	0.635186172	-0.654749
SLC36A4	243.241974	154.4530097	0.634976798	-0.655224
RPL10P16	154.0899383	97.78320037	0.634585239	-0.656114
CAAP1	471.0749542	298.9054648	0.634517845	-0.656267
EIF3F	681.2976557	432.2461925	0.634445442	-0.656432
PTCD2	103.4603871	65.55919115	0.633664661	-0.658209
AMOTL2	526.107075	333.3518194	0.633619724	-0.658311
RAB4A	957.5589022	606.7003114	0.633590592	-0.658377
RBM3	694.5053647	440.0244016	0.633579558	-0.658402
MRPS10	307.0792341	194.455228	0.633241217	-0.659173
TPT1	8361.580437	5294.738065	0.633222165	-0.659216
EIF3A	8009.374863	5071.392346	0.633182044	-0.659308
BET1L	129.8758051	82.22678213	0.633118555	-0.659452
ENSG000002	64.93790256	41.11339106	0.633118555	-0.659452
UBE2Q2	675.7944436	427.8015016	0.63303495	-0.659643
ELMOD2	386.3254881	244.4580009	0.632777304	-0.66023
FAM13B	1562.912231	988.943731	0.632757049	-0.660276
MTERF3	388.526773	245.5691736	0.632052128	-0.661885
CPSF6	1624.548206	1026.723604	0.632005625	-0.661991
CRISP1	4.9789592	3.333518194	1.493604927	0.578799
IL33	4.9789592	3.333518194	1.493604927	0.578799
FXNP2	4.9789592	3.333518194	1.493604927	0.578799
C8orf33	4.9789592	3.333518194	1.493604927	0.578799
NPAP1	4.9789592	3.333518194	1.493604927	0.578799
CLPSL2	4.9789592	3.333518194	1.493604927	0.578799
HSPA5P1	4.9789592	3.333518194	1.493604927	0.578799
MTCH1P1	4.9789592	3.333518194	1.493604927	0.578799
LINC02607	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
RPL7AP30	4.9789592	3.333518194	1.493604927	0.578799
MOCS2-DT	4.9789592	3.333518194	1.493604927	0.578799
TGFBR3L	4.9789592	3.333518194	1.493604927	0.578799
PTPN23-DT	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
LINC01126	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
LINC02835	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
ENSG000002	4.9789592	3.333518194	1.493604927	0.578799
TUBGCP4	365.1236747	244.4580009	1.493604927	0.578799
ARL16	242.3093477	162.2312188	1.493604927	0.578799
ABI1	1813.170975	1215.622968	1.491557023	0.576819
CHAMP1	1035.623514	694.4829571	1.491215159	0.576488
VAMP3	503.7047058	337.7965104	1.49114834	0.576424
CCM2	472.1712975	316.6842285	1.490984568	0.576265
RNF145	877.9564723	588.9215477	1.490786805	0.576074
RAB6A	2033.904833	1364.520114	1.490564201	0.575859
ABRAXAS2	387.5289911	260.0144192	1.490413464	0.575713
FAM83G	387.5289911	260.0144192	1.490413464	0.575713
TBCC	258.0760519	173.3429461	1.488817732	0.574167
ZNF699	236.500562	158.8977006	1.488382532	0.573745
ALKBH1	224.8829905	151.1194915	1.488113733	0.573485
FAM200C	398.316736	267.7926283	1.487407396	0.5728
TGFBR1	3581.531318	2407.911309	1.487401677	0.572794
PVR	394.9974299	265.5702828	1.487355534	0.57275
CALD1	588.3470122	395.5774924	1.487311648	0.572707
ANO6	1151.799228	774.4873938	1.487176212	0.572576
GMDS	938.5338092	631.1461115	1.487030962	0.572435
CORO1A	171.7740924	115.5619641	1.486424134	0.571846
NUP188	2910.201653	1957.886353	1.486399682	0.571822
SCNM1	166.7951332	112.2284459	1.486210843	0.571639
TMED10	4116.769432	2771.264792	1.485520057	0.570968
MED6	432.3396239	291.1272556	1.485053754	0.570515
PRPSAP2	682.947237	460.0255108	1.484585574	0.57006
DNAJC11	1072.135881	722.2622754	1.484413512	0.569893
DHFR2	130.2827657	87.78264578	1.484151732	0.569639
FLVCR1	384.2096849	258.9032464	1.483989445	0.569481
UNC5B	248.94796	167.7870824	1.483713504	0.569213
CHURC1	115.3458881	77.7820912	1.482936321	0.568457
LARGE1	446.446675	301.1278102	1.482582013	0.568112
UFL1	438.1484096	295.5719466	1.482374815	0.56791
LYRM2	108.7072759	73.33740027	1.482289738	0.567827
RAB8A	744.3544004	502.2500746	1.482039402	0.567584
RAP2A	297.9077255	201.1222644	1.481226986	0.566793
PGAP1	1089.562238	735.5963482	1.481195823	0.566762
WDR12	878.7862988	593.3662386	1.481018369	0.56659
ZNF510	584.1978795	394.4663197	1.480982914	0.566555
PTCD2	97.0897044	65.55919115	1.480947258	0.56652
EWSR1	2260.447477	1526.751333	1.480560343	0.566143
NUP88	1381.661178	933.3850944	1.480269169	0.56586
DPY19L4	2335.131865	1577.865279	1.479931079	0.56553
ENSG000002	88.79143907	60.0033275	1.479775252	0.565378
ACTR2	1915.239639	1294.516232	1.47950222	0.565112
GPBP1	759.291278	513.3618019	1.479056827	0.564677
MOB1B	417.4027463	282.2378738	1.478904091	0.564528
UNC119B	497.89592	336.6853376	1.47881676	0.564443
MKLN1	1160.097494	784.4879484	1.478795813	0.564423
ALDH1B1	248.1181335	167.7870824	1.478767792	0.564396
FANCM	660.5419206	446.691438	1.478743187	0.564372
RFX7	1453.856086	983.3878673	1.478415725	0.564052
ZFAND6	558.473257	377.7987287	1.478229582	0.56387
ATE1	1063.837616	720.03993	1.477470306	0.563129
CTNNA2	369.2728073	250.0138646	1.477009317	0.562679
STX3	577.5592672	391.1328015	1.476632144	0.56231
PDE6D	429.8501443	291.1272556	1.476502581	0.562184
SLK	999.1111462	676.7041934	1.476437055	0.56212
AP3B1	1348.468117	913.3839852	1.47634307	0.562028
SRGN	283.8006744	192.2328825	1.476337818	0.562023
AFTPH	1115.286861	755.5974574	1.476033105	0.561725
ZNF624	337.7393991	228.9015827	1.475478654	0.561183
SOX12	472.1712975	320.0177467	1.475453479	0.561158
SNRK	532.7486344	361.1311377	1.475222097	0.560932
BCAS2	507.8538384	344.4635467	1.474332606	0.560062
PDHX	375.0815931	254.4585555	1.474038051	0.559774
ITGA2B	62.23699	42.22456379	1.473952231	0.55969
IL1RAP	427.3606647	290.0160829	1.473575742	0.559321
AGTPBP1	2808.132989	1905.661234	1.473574074	0.55932
RNMT	486.2783486	330.0183012	1.473489036	0.559236
KLHL11	972.5566971	660.0366025	1.473489036	0.559236
PGAM1	668.0103594	453.3584744	1.473470547	0.559218
TMEM263	422.3817055	286.6825647	1.473342845	0.559093
MED17	58.91768387	40.00221833	1.472860414	0.558621
FBXO22	350.1867971	237.7909645	1.47266654	0.558431
ELF2	2275.384354	1545.641269	1.472129659	0.557905
FAM3C	282.9708479	192.2328825	1.472021041	0.557798
DAZAP1	1575.01076	1070.05934	1.471891045	0.557671
CUL4A	780.0369414	530.0293929	1.471686197	0.55747
CSTPP1	828.9967068	563.3645748	1.47151018	0.557298
ADCY3	701.2034207	476.6931018	1.47097455	0.556772
NFE2L2	2862.770925	3237.983133	1.131066096	0.177683
ADO	132.07709	149.368776	1.130921162	0.177498
CDHR2	11.00642416	12.447398	1.130921162	0.177498
DDX25	11.00642416	12.447398	1.130921162	0.177498
SRP14-DT	11.00642416	12.447398	1.130921162	0.177498
ENSG000002	11.00642416	12.447398	1.130921162	0.177498
ZNF133	383.0235609	433.1694504	1.130921162	0.177498
LPCAT1	50.62955115	57.2580308	1.130921162	0.177498
RIPOR2	198.1156349	224.053164	1.130921162	0.177498
MVD	167.2976473	189.2004496	1.130921162	0.177498
ZFP2	55.03212081	62.23699	1.130921162	0.177498
CDKL3	19.81156349	22.4053164	1.130921162	0.177498
EIF3J-DT	19.81156349	22.4053164	1.130921162	0.177498
MYL5	19.81156349	22.4053164	1.130921162	0.177498
TTC23L	59.43469048	67.2159492	1.130921162	0.177498
AGMAT	15.40899383	17.4263572	1.130921162	0.177498
ENSG000002	15.40899383	17.4263572	1.130921162	0.177498
METTL23	96.85653263	109.5371024	1.130921162	0.177498
TMEM231	24.21413316	27.3842756	1.130921162	0.177498
GPRC5D-AS1	24.21413316	27.3842756	1.130921162	0.177498
HNRNPA1L3	85.85010847	97.0897044	1.130921162	0.177498
ENSG000002	17.61027866	19.9158368	1.130921162	0.177498
STAG3L5P	17.61027866	19.9158368	1.130921162	0.177498
CPA4	8.80513933	9.9579184	1.130921162	0.177498
CBLN3	8.80513933	9.9579184	1.130921162	0.177498
CDH18	8.80513933	9.9579184	1.130921162	0.177498
XIRP1	8.80513933	9.9579184	1.130921162	0.177498
ZNF197	8.80513933	9.9579184	1.130921162	0.177498
SUCNR1	8.80513933	9.9579184	1.130921162	0.177498
UPF3AP1	8.80513933	9.9579184	1.130921162	0.177498
ACTG1P14	8.80513933	9.9579184	1.130921162	0.177498
SRD5A1P1	8.80513933	9.9579184	1.130921162	0.177498
LINC01695	8.80513933	9.9579184	1.130921162	0.177498
Y_RNA.114	8.80513933	9.9579184	1.130921162	0.177498
ZNF807P	8.80513933	9.9579184	1.130921162	0.177498
ENSG000002	8.80513933	9.9579184	1.130921162	0.177498
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CLDN18	4.402569665	4.9789592	1.130921162	0.177498
GUCY2F	4.402569665	4.9789592	1.130921162	0.177498
PRSS33	4.402569665	4.9789592	1.130921162	0.177498
PROK1	4.402569665	4.9789592	1.130921162	0.177498
ASB11	4.402569665	4.9789592	1.130921162	0.177498
CES3	4.402569665	4.9789592	1.130921162	0.177498
OR10K1	4.402569665	4.9789592	1.130921162	0.177498
OR2AJ1	4.402569665	4.9789592	1.130921162	0.177498
C12orf54	4.402569665	4.9789592	1.130921162	0.177498
C5orf64	4.402569665	4.9789592	1.130921162	0.177498
MAP6D1	4.402569665	4.9789592	1.130921162	0.177498
PRR34	4.402569665	4.9789592	1.130921162	0.177498
HTR3E	4.402569665	4.9789592	1.130921162	0.177498
PLA2G4E	4.402569665	4.9789592	1.130921162	0.177498
GRK6P1	4.402569665	4.9789592	1.130921162	0.177498
RASAL2-AS1	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
TOB1-AS1	4.402569665	4.9789592	1.130921162	0.177498
LRRC37A15I	4.402569665	4.9789592	1.130921162	0.177498
LINC02580	4.402569665	4.9789592	1.130921162	0.177498
GNB1-DT	4.402569665	4.9789592	1.130921162	0.177498
HMGA1P8	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
ERI3-IT1	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
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RPL7AP30	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
TAS2R30	4.402569665	4.9789592	1.130921162	0.177498
NHLRC4	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
IL21R-AS1	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
ERVE-1	4.402569665	4.9789592	1.130921162	0.177498
GOLGA4-AS	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
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OR2S2	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
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TEX13C	4.402569665	4.9789592	1.130921162	0.177498
ENSG000002	4.402569665	4.9789592	1.130921162	0.177498
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VDAC1P1	2.201284833	2.4894796	1.130921162	0.177498
DYNC1I2	2.201284833	2.4894796	1.130921162	0.177498
CCDC198	2.201284833	2.4894796	1.130921162	0.177498
GFUS	2.201284833	2.4894796	1.130921162	0.177498
CLEC4M	2.201284833	2.4894796	1.130921162	0.177498
DAO	2.201284833	2.4894796	1.130921162	0.177498
KCNA1	2.201284833	2.4894796	1.130921162	0.177498
TECTB	2.201284833	2.4894796	1.130921162	0.177498
MLANA	2.201284833	2.4894796	1.130921162	0.177498
ZSCAN10	2.201284833	2.4894796	1.130921162	0.177498
CACNG6	2.201284833	2.4894796	1.130921162	0.177498
H19	2.201284833	2.4894796	1.130921162	0.177498
SLC52A1	2.201284833	2.4894796	1.130921162	0.177498
VRTN	2.201284833	2.4894796	1.130921162	0.177498
TSHB	2.201284833	2.4894796	1.130921162	0.177498
CYP2C9	2.201284833	2.4894796	1.130921162	0.177498

RBPMS2	144.1841565	91.11616398	0.631942969	-0.662134
EPHX2	350.0042884	221.1233736	0.631773326	-0.662521
ATP2A3	408.3383364	257.7920737	0.631319792	-0.663557
CENPJ	528.3083598	333.3518194	0.630979641	-0.664335
PLCE1	1355.991457	855.6030032	0.630979641	-0.664335
BDNF	88.0513933	55.55863657	0.630979641	-0.664335
POLR3GL	61.63597531	38.8910456	0.630979641	-0.664335
COQ10B	211.3233439	133.3407278	0.630979641	-0.664335
UTP4	105.661672	66.67036389	0.630979641	-0.664335
PHEX	52.83083598	33.33518194	0.630979641	-0.664335
CARD6	184.9079259	116.6731368	0.630979641	-0.664335
RPL21P16	26.41541799	16.66759097	0.630979641	-0.664335
ENSG000002	26.41541799	16.66759097	0.630979641	-0.664335
YBEY	140.8822293	88.89381852	0.630979641	-0.664335
KIF20A	35.22055732	22.22345463	0.630979641	-0.664335
PIH1D2	35.22055732	22.22345463	0.630979641	-0.664335
RABAC1	17.61027866	11.11172731	0.630979641	-0.664335
ATP6V1C2	17.61027866	11.11172731	0.630979641	-0.664335
CA1	8.80513933	5.555863657	0.630979641	-0.664335
GPR55	8.80513933	5.555863657	0.630979641	-0.664335
TMEM169	8.80513933	5.555863657	0.630979641	-0.664335
AMN	8.80513933	5.555863657	0.630979641	-0.664335
NCBP2L	8.80513933	5.555863657	0.630979641	-0.664335
FAM72A	8.80513933	5.555863657	0.630979641	-0.664335
ENSG000002	8.80513933	5.555863657	0.630979641	-0.664335
LINC03000	8.80513933	5.555863657	0.630979641	-0.664335
ENSG000002	8.80513933	5.555863657	0.630979641	-0.664335
ENSG000002	8.80513933	5.555863657	0.630979641	-0.664335
ENSG000002	8.80513933	5.555863657	0.630979641	-0.664335
ZNF841	3462.621042	2183.454417	0.63057851	-0.665252
BAG4	565.730202	356.6864468	0.630488607	-0.665458
UBE2G1	606.4539714	382.2434196	0.630292549	-0.665906
AMIGO1	190.411138	120.006655	0.630250185	-0.666003
DDI2	908.0299934	572.2539567	0.630214818	-0.666084
SNIP1	456.7666028	287.7937374	0.630067382	-0.666422
PER3	1326.274112	835.601894	0.630037099	-0.666491
PHF21A	2168.26556	1365.631287	0.629826582	-0.666973
GFPT2	333.4946521	210.0116462	0.629730177	-0.667194
TMEM69	315.8843735	198.8999189	0.62966052	-0.667354
TRAPPC8	1576.11994	992.2772492	0.629569631	-0.667562
CDC42SE2	187.1092108	117.7843095	0.629494983	-0.667733
DLGAP4	1590.428292	1001.166631	0.629494983	-0.667733
HUS1	169.4989321	106.6725822	0.629340733	-0.668087
ABI1	1931.627441	1215.622968	0.629325792	-0.668121
BLOC1S3	75.94432672	47.78042745	0.629150715	-0.668522
ADCY9	966.3640415	607.8114841	0.628967406	-0.668943
RPA3	67.13918739	42.22456379	0.628910856	-0.669073
HSPH1	1266.839421	796.7108484	0.628896477	-0.669106
PPIG	1047.81158	658.9254297	0.628858701	-0.669192
ZDHHC14	770.4496914	484.4713109	0.628816283	-0.66929
PTGS1	125.4732355	78.89326393	0.628765678	-0.669406
HJURP	116.6680961	73.33740027	0.628598586	-0.669789
SCAND3	58.33404806	36.66870014	0.628598586	-0.669789
TRIM4	390.7280578	245.5691736	0.628491271	-0.670035
GRK5	265.2548223	166.6759097	0.628361469	-0.670333
UCHL5	454.5653179	285.571392	0.628229609	-0.670636
TRPV2	99.05781747	62.22567296	0.628175287	-0.670761
WAPL	2021.880119	1270.070432	0.628163075	-0.670789
KLF5	2310.248432	1451.191587	0.628153911	-0.67081
PIK3IP1	139.7815869	87.78264578	0.627998635	-0.671167
ZNF268	631.768747	396.6886651	0.627901692	-0.671389
LIMS1	474.3768814	297.794292	0.627758864	-0.671718
SDHA	40.7237694	25.55697282	0.627568941	-0.672154
KAT7	1305.361906	818.9343031	0.627361883	-0.67263
YWHAG	1075.327641	674.481848	0.627233805	-0.672925
TYW1	1008.188453	632.2572842	0.627122124	-0.673182
TYW5	209.1220591	131.1183823	0.626994507	-0.673475
RPAP2	592.14562	371.1316923	0.626757473	-0.674021
CLK1	1904.11138	1193.399514	0.626748795	-0.674041
WRN	655.9828801	411.1339106	0.626744879	-0.67405
HRCT1	63.83726015	40.00221833	0.626628058	-0.674319
ROBO1	3151.139238	1974.553944	0.626615898	-0.674347
ZFP36L1	4871.443335	3052.391493	0.62658873	-0.674409
CCSER2	1725.807309	1081.171068	0.626472644	-0.674677
ZC3H12C	356.6081429	223.345719	0.626305718	-0.675061
NEBL	750.6381279	470.0260654	0.626168653	-0.675377
NMD3	796.8651094	498.9165564	0.626099136	-0.675537
KRBOX4	165.0963624	103.339064	0.625931804	-0.675923
KIN	367.614567	230.0127554	0.625689992	-0.67648
DNTTIP1	179.4047139	112.2284459	0.625560184	-0.676779
PPFIA1	101.2591023	63.33684569	0.625492862	-0.676935
ZNF256	428.1498999	267.7926283	0.625464652	-0.677
RPL12	1208.505373	755.5974574	0.625233014	-0.677534
HEXIM1	766.0471217	478.9154472	0.62517753	-0.677662
AMZ2	910.2312783	568.9204385	0.625028443	-0.678006
GPR34	624.06425	390.0216287	0.624970311	-0.67814
ARHGAP30	416.0428334	260.0144192	0.624970311	-0.67814
DRAM1	184.9079259	115.5619641	0.624970311	-0.67814
ZNF8-DT	23.11349074	14.44524551	0.624970311	-0.67814
ENSG000002	23.11349074	14.44524551	0.624970311	-0.67814
VIPAS39	647.1777408	404.4668742	0.624970311	-0.67814
SALL2	926.7409145	578.9209931	0.624684833	-0.6788
C1GALT1	176.1027866	110.0061004	0.624669845	-0.678834
MYO5C	1385.708802	865.6035578	0.624664833	-0.678846
MAPK6	482.0813783	301.1278102	0.624641033	-0.678901
MYL12A	718.7194978	448.9137835	0.624602206	-0.67899
ADAMTS9	427.0492575	266.6814555	0.624474697	-0.679285
ARHGEF7	1263.537494	788.9326393	0.624384035	-0.679494
RPL38	1156.77518	722.2622754	0.624375668	-0.679514
HOXA10	167.2976473	104.4502368	0.62433775	-0.679601
POLA1	790.2612549	493.3606928	0.624300748	-0.679687
SAMHD1	1060.51831	721.1511027	1.470590984	0.556396
RPS2P5	367.6131543	250.0138646	1.470371073	0.55618
CFAP410	102.8984901	70.00388208	1.469896913	0.555715
DNMBP	814.8896558	554.475193	1.469659357	0.555482
ZNF250	759.291278	516.6953201	1.469514525	0.55534
DNAJC27	151.8582556	103.339064	1.469514525	0.55534
TMIGD3	50.61941854	34.44635467	1.469514525	0.55534
CORO2A	502.8748792	342.2412013	1.469358094	0.555186
CREB5	97.91953094	66.67036389	1.468711512	0.554551
CXCL17	48.95976547	33.33518194	1.468711512	0.554551
PITRM1	2469.563763	1682.315515	1.467955173	0.553808
DTWD2	92.94057174	63.33684569	1.467401332	0.553263
MMAB	275.5024091	187.7881916	1.46709123	0.552959
THEM4	91.28091867	62.22567296	1.466933411	0.552803
RAB7A	1619.821393	1104.505695	1.466557756	0.552434
SPRED3	89.6212656	61.11450023	1.466448474	0.552326
RPS28	311.18495	212.2339917	1.466235203	0.552117
MRM3	177.5828781	121.1178277	1.466199332	0.552081
KIRREL1	219.9040313	150.0083187	1.465945577	0.551832
PSMD9	86.30195947	58.89215477	1.465423702	0.551318
ZMAT3	299.5673785	204.4557826	1.465193964	0.551092
ASIC3	42.3211532	28.89049102	1.464881756	0.550784
ZNF587B	833.1458395	568.9204385	1.464432956	0.550342
HACD3	867.1687274	592.2550659	1.46418119	0.550094
HCCS	247.2883069	168.8982552	1.464125883	0.55004
STOM	404.9553483	276.6820101	1.46361286	0.549534
MSR1	281.3111948	192.2328825	1.463387487	0.549312
UBE2V1P2	79.6633472	54.44746384	1.463123194	0.549051
ZRANB2	1207.397606	825.6013395	1.462446278	0.548384
MAP3K1	1000.770799	684.4824026	1.462084044	0.548026
GP2	147.7091229	101.1167186	1.460778445	0.546737
ULBP2	217.4145517	148.897146	1.460166011	0.546132
RBP7	105.3879697	72.22622754	1.459137121	0.545115
GLE1	911.1495336	624.4790751	1.459055347	0.545035
CTPS2	557.6434304	382.2434196	1.458869929	0.544851
SEPTIN11	1355.106729	928.9404035	1.458766056	0.544749
SCML1	277.1620621	190.0105371	1.4586668	0.54465
KDELR2	931.895197	638.9243206	1.458537681	0.544523
HPGDS	34.02288787	23.33462736	1.458042905	0.544033
ZNF626	170.1144393	116.6731368	1.458042905	0.544033
CTSS	571.7504815	392.2439742	1.457639936	0.543634
ARL14EP	132.7722453	91.11616398	1.457175539	0.543175
GOLPH3L	594.1557979	407.8003924	1.456977014	0.542978
ZNF605	789.9948598	542.2522929	1.456876937	0.542879
ZSCAN9	328.6113072	225.5680645	1.456816629	0.542819
CCNYL1	258.9058784	177.787637	1.456264804	0.542273
SLC10A4	32.3632348	22.22345463	1.456264804	0.542273
ZNF160	2080.375119	1428.968133	1.455858302	0.54187
CLCC1	1472.11227	1011.167186	1.455854473	0.541866
UBE2D1	287.9498071	197.7887462	1.455845252	0.541857
TSGA10	381.7202053	262.2367646	1.455631921	0.541646
MAD2L1BP	219.9040313	151.1194915	1.455166565	0.541184
PSMB6	1191.630902	818.9343031	1.455099509	0.541118
SLC25A15	124.47398	85.56030032	1.454809994	0.540831
PSMA5	1116.946514	767.8203574	1.454697708	0.540719
GATB	341.0587052	234.4574463	1.454672097	0.540694
TTC13	526.9398487	362.2423104	1.454661241	0.540683
CPD	5857.745499	4026.889979	1.454657448	0.540679
RPL5	2599.016703	1786.765752	1.454592858	0.540615
SGK3	30.70358173	21.1122819	1.454299534	0.540324
PLXNC1	933.55485	642.2578388	1.453551508	0.539582
GSPT1	2915.180612	2005.66678	1.453472053	0.539503
KRT19	959.2794726	660.0366025	1.453373145	0.539405
UBE2H	387.5289911	266.6814555	1.453153127	0.539187
PARP10	353.5061032	243.3468282	1.452684244	0.538721
DCTD	293.7585928	202.2334371	1.452571825	0.53861
WNT11	379.2307257	261.1255919	1.452292451	0.538332
SRSF7	1421.492852	978.9431764	1.452068808	0.53811
EXOSC10	1799.893751	1240.068768	1.451446724	0.537492
ARAP3	198.3285415	136.674246	1.451103974	0.537151
C2orf76	112.8564085	77.7820912	1.450930501	0.536978
GAR1	140.2406841	96.67202764	1.450685245	0.536735
ZNF418	643.1155634	443.3579198	1.450556164	0.536606
POLR1B	850.5721967	586.6992022	1.449758571	0.535813
DERL2	328.6113072	226.6792372	1.449675371	0.53573
GPRC5D-AS	27.3842756	18.88993643	1.449675371	0.53573
SNRNP35	272.1831029	187.7881916	1.449415432	0.535471
TBCB	969.237391	668.9259843	1.448945644	0.535003
ERC1	1448.877127	1000.055458	1.448796779	0.534855
YPEL1	241.4795212	166.6759097	1.448796779	0.534855
USP47	1622.310873	1120.062113	1.448411524	0.534472
USP15	664.6910532	458.9143381	1.448398967	0.534459
SCAND3	53.10889814	36.66870014	1.448344172	0.534404
SLC48A1	78.83352067	54.44746384	1.447882327	0.533944
KIFC3	234.8409089	162.2312188	1.447569159	0.533632
ALG10B	468.0221648	323.3512648	1.44741096	0.533475
CSNK2A1	2436.370702	1683.426688	1.447268669	0.533333
LYSMD3	413.2536136	285.571392	1.447111389	0.533176
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CPM	1027.325248	710.0393754	1.446856729	0.532922
ETF1	744.3544004	514.4729747	1.446828963	0.532894
POC5	178.4127047	123.3401732	1.446509276	0.532576
RHOT1	1171.715065	810.0449212	1.446481589	0.532548
CAAP1	432.3396239	298.9054648	1.446409233	0.532476
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PAF1	1082.923626	748.930421	1.44596026	0.532028
BIRC3	75.51421454	52.22511838	1.445936685	0.532004
POLE4	75.51421454	52.22511838	1.445936685	0.532004
SULT2B1	200.8180211	138.8965914	1.44580957	0.531878
MSI1	250.6076131	173.3429461	1.445732974	0.531801
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LYSET	2.201284833	2.4894796	1.130921162	0.177498
CCT8	2.201284833	2.4894796	1.130921162	0.177498
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MAGEC3	2.201284833	2.4894796	1.130921162	0.177498
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GNAS-AS1	2.201284833	2.4894796	1.130921162	0.177498
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FGFR1OP2	400.6338395	250.0138646	0.624045799	-0.680276
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MORC3	1332.877966	831.1572031	0.623580871	-0.681351
SLC25A43	74.84368431	46.66925472	0.623556352	-0.681408
ACTBP2	37.42184215	23.33462736	0.623556352	-0.681408
ZFAND2A	112.2655265	70.00388208	0.623556352	-0.681408
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HDGFL3	641.6745287	400.0221833	0.623403557	-0.681762
STAMBPL1	89.15203572	55.55863657	0.623189769	-0.682257
COX20	563.5289171	351.1305831	0.623092396	-0.682482
PALMD	192.6124229	120.006655	0.623047326	-0.682586
STX8	502.9935842	313.3507103	0.622971585	-0.682762
FAM81A	51.73019357	32.22400921	0.622924582	-0.682871
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CUTC	160.6937928	100.0055458	0.622336085	-0.684234
COX17	160.6937928	100.0055458	0.622336085	-0.684234
ZNF551	255.3490406	158.8977006	0.622276474	-0.684372
ACSS1	1150.171325	715.595239	0.622164041	-0.684633
EPRS1	4843.927274	3013.500448	0.622119259	-0.684737
CRACDL	203.618847	126.6736914	0.622111819	-0.684754
PITPNA	1023.597447	636.7019751	0.622023801	-0.684958
OSBPL1A	1025.798732	637.8131478	0.621772213	-0.685542
EGFLAM	294.9721676	183.3435007	0.621562035	-0.68603
CERS2	1251.430427	777.820912	0.621545469	-0.686068
GLT8D1	661.4860922	411.1339106	0.621530695	-0.686102
FCGR1CP	28.61670282	17.7787637	0.621272262	-0.686702
CCL22	14.30835141	8.889381852	0.621272262	-0.686702
DTD1	14.30835141	8.889381852	0.621272262	-0.686702
C4orf19	14.30835141	8.889381852	0.621272262	-0.686702
FGF17	14.30835141	8.889381852	0.621272262	-0.686702
DBX2	14.30835141	8.889381852	0.621272262	-0.686702
GCC2-AS1	14.30835141	8.889381852	0.621272262	-0.686702
TMEM230P2	14.30835141	8.889381852	0.621272262	-0.686702
CPP	14.30835141	8.889381852	0.621272262	-0.686702
CAVIN1	1169.982889	726.7069664	0.621126149	-0.687042
GMPR	506.2955115	314.461883	0.621103438	-0.687095
RNF130	2267.323378	1407.855851	0.620932975	-0.687491
SMC1A	2472.042867	1534.529542	0.620753613	-0.687907
C7orf31	239.9400468	148.897146	0.620559794	-0.688358
SMC3	1387.910087	861.1588669	0.620471654	-0.688563
ZFYVE19	105.661672	65.55919115	0.620463314	-0.688582
TTLL5	2489.653146	1544.530097	0.62037963	-0.688777
TCEANC2	91.35332055	56.6698093	0.620336611	-0.688877
NCAPG	62.73661773	38.8910456	0.619909823	-0.68987
PNO1	111.164884	68.89270935	0.61973446	-0.690278
CAMK1	111.164884	68.89270935	0.61973446	-0.690278
CORO1C	1222.813725	757.8198028	0.61973446	-0.690278
MMP19	159.5931504	98.8943731	0.619665524	-0.690438
GAS6-AS1	48.42826632	30.00166375	0.619507284	-0.690807
PLEKHA2	427.0492575	264.4591101	0.619270741	-0.691358
GSTM5	82.54818122	51.11394565	0.619201355	-0.691519
TAOK1	2719.687411	1683.426688	0.618978005	-0.69204
GTF2A2	403.9357668	250.0138646	0.618944607	-0.692118
TMEM161B	224.5310529	138.8965914	0.618607492	-0.692904
C1QB	1244.826573	770.0427029	0.618594365	-0.692934
PRDM5	454.5653179	281.1267011	0.618451716	-0.693267
LRRFIP1P1	88.0513933	54.44746384	0.618360049	-0.693481
C21orf91	479.8800935	296.6831193	0.618244272	-0.693751
PNRC1	1743.417587	1077.837549	0.618232578	-0.693778
KLHDC10	666.9893043	412.2450834	0.618068507	-0.694161
MTMR2	1251.430427	773.3762211	0.617993781	-0.694336
TBCA	201.4175622	124.4513459	0.617877332	-0.694608
PDS5B	2106.629585	1301.183269	0.617661158	-0.695112
NCL	9279.516212	5731.428949	0.617643077	-0.695155
FARSB	991.6788171	612.256175	0.61739362	-0.695738
ATF7IP	4026.149959	2484.582227	0.617111199	-0.696398
TGDS	158.4925079	97.78320037	0.616957872	-0.696756
ISM2	39.62312699	24.44580009	0.616957872	-0.696756
PPP2CA	39.62312699	24.44580009	0.616957872	-0.696756
SLC14A2	19.81156349	12.22290005	0.616957872	-0.696756
ANKRD53	19.81156349	12.22290005	0.616957872	-0.696756
NTRK1	19.81156349	12.22290005	0.616957872	-0.696756
NR2E3	19.81156349	12.22290005	0.616957872	-0.696756
ENSG000002	19.81156349	12.22290005	0.616957872	-0.696756
CDCP1	412.7409061	254.4585555	0.616509175	-0.697806
RPL4	6168.000101	3802.433087	0.616477468	-0.69788
TTC38	548.1199233	337.7965104	0.616282124	-0.698337
COLCA1	234.4368347	144.4524551	0.616167913	-0.698605
MLLT3	753.9400552	464.4702017	0.616057203	-0.698864
NT5C3B	239.9400468	147.7859733	0.615928751	-0.699165
RCOR3	1858.985041	1144.507913	0.615662788	-0.699788
PLAG1	45.12633907	27.77931829	0.615589894	-0.699959
MLH3	2295.94008	1412.300542	0.61512953	-0.701038
RPS4X	5335.914434	3281.293076	0.614944845	-0.701471
SIM2	3079.597481	1893.438334	0.614833057	-0.701733
DZIP1	692.3040799	425.5791561	0.614728655	-0.701978
FAM114A1	1057.717362	650.0360479	0.614564979	-0.702363
CDKN2AIP	177.203429	108.8949277	0.614519303	-0.70247
CDCA4	50.62955115	31.11283648	0.614519303	-0.70247
IRX2	25.31477557	15.55641824	0.614519303	-0.70247
EEF1AKMT1	126.5738779	77.7820912	0.614519303	-0.70247
MARCKS	562.4282747	345.5747195	0.614433404	-0.702671
PXDC1	264.1541799	162.2312188	0.614153518	-0.703329
EMC7	463.3704573	284.4602192	0.613893732	-0.703939
SOCS4	463.3704573	284.4602192	0.613893732	-0.703939
YOD1	275.1606041	168.8982552	0.613816995	-0.70412
YEATS2	1842.214904	1274.515123	1.445424123	0.531493
WRN	594.1557979	411.1339106	1.445163686	0.531233
UBE3D	73.85456147	51.11394565	1.444900419	0.53097
ITGAX	97.91953094	67.78153662	1.444634274	0.530704
ARHGEF2	877.9564723	607.8114841	1.444455222	0.530525
HNRNPLL	780.0369414	540.0299475	1.444432749	0.530503
RASEF	1760.062077	1218.956486	1.443908865	0.52998
FBL	24.06496947	16.66759097	1.443818096	0.529889
LIMD2	24.06496947	16.66759097	1.443818096	0.529889
SNX22	24.06496947	16.66759097	1.443818096	0.529889
B4GALT5	1199.929167	831.1572031	1.443684976	0.529756
XPO5	1672.930291	1158.953159	1.443483957	0.529555
AIFM1	859.7002886	595.5885841	1.443446553	0.529518
IMP4	165.1354801	114.4507913	1.442851362	0.528923
EIF2B2	304.5463377	211.122819	1.442507917	0.528579
XYLB	234.0110824	162.2312188	1.442454074	0.528525
DNMT3A	1307.806617	906.7169489	1.442353778	0.528425
SPAG6	139.4108576	96.67202764	1.442101309	0.528173
PRR7	46.47028587	32.22400921	1.442101309	0.528173
PHC1P1	115.3458881	80.00443666	1.441743645	0.527815
KRT8	1009.069065	700.0388208	1.441447295	0.527518
DDX59	800.7826047	555.5863657	1.441328755	0.527399
COP1	1345.148811	933.3850944	1.441150945	0.527221
ANKRD44	864.6792478	600.033275	1.441052161	0.527123
PHGDH	341.0587052	236.6797918	1.441013204	0.527084
SOX13	360.1447155	250.0138646	1.440498974	0.526569
PDIA4	3734.2194	2592.365982	1.440467675	0.526537
PLAA	1726.869016	1198.955377	1.440311332	0.526381
ZNF77	179.2425312	124.4513459	1.440261894	0.526331
ENSG000002	44.8106328	31.11283648	1.440261894	0.526331
SOX21	22.4053164	15.55641824	1.440261894	0.526331
SLC25A43	67.2159492	46.66925472	1.440261894	0.526331
ZNF665	468.8519914	325.5736103	1.440079836	0.526149
CEP89	843.1037579	585.5880295	1.439755793	0.525824
FBXW2	1529.370301	1062.281131	1.439703913	0.525772
PTPN1	1106.988596	768.9315302	1.439645212	0.525713
MRPS14	353.5061032	245.5691736	1.439537781	0.525606
SLC35B3	374.2517665	260.0144192	1.439350047	0.525417
C5orf63	87.96161254	61.11450023	1.439292021	0.525359
DYNC1LI1	1055.53935	733.3740027	1.439292021	0.525359
PSMD7	714.4806452	496.694211	1.438471859	0.524537
N4BP3	86.30195947	60.0033275	1.438286226	0.524351
ARPC4	86.30195947	60.0033275	1.438286226	0.524351
CDCP1	365.9535012	254.4585555	1.438165443	0.52423
DPY19L1	236.500562	164.4535643	1.438099339	0.524163
RBBP5	771.7386676	536.6964293	1.437942632	0.524006
PDZD8	4565.705587	3175.731666	1.437686198	0.523749
TEX9	273.0129295	190.0105371	1.436830471	0.52289
ADCY7	437.3185831	304.4613284	1.436368242	0.522426
ZFP2	62.23699	43.33573653	1.436158584	0.522215
RHEBL1	20.74566333	14.44524551	1.436158584	0.522215
ENSG000002	20.74566333	14.44524551	1.436158584	0.522215
DCLK2	765.9298903	533.3629111	1.436038904	0.522095
RPAP2	532.7486344	371.1316923	1.435470604	0.521524
PPP1R15B	2023.946915	1410.078196	1.435343742	0.521396
ZMYM1	953.4706868	664.4812934	1.43490975	0.52096
ZNF768	628.1786858	437.8020562	1.434846358	0.520896
MLH1	948.4917276	661.1477752	1.434613808	0.520662
UFD1	803.2720843	560.0310566	1.43433489	0.520382
LRRC24	100.4090105	70.00388208	1.43433489	0.520382
SH3BP5	439.8080627	306.6836739	1.434077195	0.520123
RAB12	259.7357049	181.1211552	1.434043995	0.520089
SETD6	159.3266944	111.1172731	1.43386073	0.519905
UBL3	199.158368	138.8965914	1.43386073	0.519905
SMYD4	554.3241243	386.6881105	1.433517373	0.519559
SEMA3G	58.91768387	41.11339106	1.433053376	0.519092
OSGEP	58.91768387	41.11339106	1.433053376	0.519092
CSPP1	1156.778188	807.8225758	1.431970611	0.518002
NIP7	133.6020719	93.33850944	1.431371389	0.517398
KCTD7	57.2580308	40.00221833	1.431371389	0.517398
BRD7P2	38.17202053	26.66814555	1.431371389	0.517398
TNS3	994.9620135	695.5941299	1.430377243	0.516396
PTRH2	243.1391743	170.0094279	1.430151123	0.516168
GPR107	1410.705107	986.7213855	1.429689401	0.515702
UHMK1	1094.541198	765.598012	1.429655224	0.515667
CHMP5	997.4514931	697.8164753	1.429389429	0.515399
COX7C	809.9106966	566.698093	1.429174911	0.515182
C14orf93	220.7338579	154.4530097	1.429132772	0.51514
ZNF254	1102.009636	771.1538756	1.429039873	0.515046
PEAK1	2087.843558	1461.192142	1.428863117	0.514868
TTC19	712.8209922	498.9165564	1.428737898	0.514741
PTAR1	1076.285014	753.3751119	1.428617692	0.51462
UBP1	1643.886363	1151.17495	1.428007414	0.514003
ATP2B4	758.4614515	531.1405656	1.427986301	0.513982
SLC30A6	866.3389008	606.7003114	1.427951963	0.513947
PABPC4L	144.3898168	101.1167186	1.427951963	0.513947
LRRC32	125.3038065	87.78264578	1.427432557	0.513423
NEPRO	911.9793602	638.9243206	1.427366796	0.513356
CEP131	428.1904912	300.0166375	1.427222486	0.51321
SNX6	1370.043607	960.05324	1.427049615	0.513035
C9orf64	423.211532	296.6831193	1.426476616	0.512456
DYM	752.6526658	527.8070474	1.425999652	0.511974
ZNF41	803.2720843	563.3645748	1.425847702	0.51182
RAD50	34.8527144	24.44580009	1.425713794	0.511684
RWDD4P2	34.8527144	24.44580009	1.425713794	0.511684
PRMT2	782.526421	548.9193293	1.425576363	0.511545
LSM6	242.3093477	170.0094279	1.425270061	0.511235
COLGALT1	1537.668566	1078.948722	1.425154444	0.511118
RPS6KA3	1430.620944	1004.500149	1.424211778	0.510164
NPIPB11	340.2288787	238.9021373	1.424134931	0.510086
MDM4	1987.434547	1395.632951	1.424038137	0.509988
RPS12P27	2.201284833	2.4894796	1.130921162	0.177498
RPL34P18	2.201284833	2.4894796	1.130921162	0.177498
RN7SL559P	2.201284833	2.4894796	1.130921162	0.177498
RPL5P1	2.201284833	2.4894796	1.130921162	0.177498
ABCF2P1	2.201284833	2.4894796	1.130921162	0.177498
NECTIN3-AS	2.201284833	2.4894796	1.130921162	0.177498
RPL21P11	2.201284833	2.4894796	1.130921162	0.177498
RN7SL141P	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
IFT122P2	2.201284833	2.4894796	1.130921162	0.177498
MALINC1	2.201284833	2.4894796	1.130921162	0.177498
CIBAR1-DT	2.201284833	2.4894796	1.130921162	0.177498
MGC16275	2.201284833	2.4894796	1.130921162	0.177498
DYNC1LI2-D	2.201284833	2.4894796	1.130921162	0.177498
STARD4-AS1	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
TICAM2-AS1	2.201284833	2.4894796	1.130921162	0.177498
CLRN2	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
GLYATL1P4	2.201284833	2.4894796	1.130921162	0.177498
OR4D10	2.201284833	2.4894796	1.130921162	0.177498
TRIM53CP	2.201284833	2.4894796	1.130921162	0.177498
LINC02739	2.201284833	2.4894796	1.130921162	0.177498
HTD2	2.201284833	2.4894796	1.130921162	0.177498
PGAM1P8	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
OR10G2	2.201284833	2.4894796	1.130921162	0.177498
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SBNO1-AS1	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
TRAV1-2	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
P2RX5-TAX1	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
EIF3LP1	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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FOXN3-AS1	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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POU2F2-AS2	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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DOCK9-DT	2.201284833	2.4894796	1.130921162	0.177498
CLEC19A	2.201284833	2.4894796	1.130921162	0.177498
ST3GAL1-DT	2.201284833	2.4894796	1.130921162	0.177498
LINC02128	2.201284833	2.4894796	1.130921162	0.177498
EFCAB6-DT	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
EFCAB13-DT	2.201284833	2.4894796	1.130921162	0.177498
SNORD53	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
EIF1P5	2.201284833	2.4894796	1.130921162	0.177498
CEP192-DT	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
PLA2G4C-AS	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
MAP2K5-DT	2.201284833	2.4894796	1.130921162	0.177498
RNPC3P1	2.201284833	2.4894796	1.130921162	0.177498
ATP2B1-AS1	2.201284833	2.4894796	1.130921162	0.177498
U7	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ARHGEF2-AS	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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ANKRD20A2	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
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TRAJ37	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002

NAT1	56.13276323	34.44635467	0.613658632	-0.704492
LRRTM4	56.13276323	34.44635467	0.613658632	-0.704492
RTRAF	872.8094361	535.5852566	0.613633669	-0.70455
CEP95	889.3190724	545.5858111	0.613487136	-0.704895
NAA20	746.2355583	457.8031654	0.613483451	-0.704904
CDV3	608.6552562	373.3540378	0.613408056	-0.705081
MIER1	1018.094235	624.4790751	0.613380425	-0.705146
MED23	1463.854414	897.827567	0.613331188	-0.705262
ITGA9	117.7687385	72.22622754	0.613288623	-0.705362
SRF	1163.379034	713.3728936	0.613190433	-0.705593
GPRIN3	425.9486151	261.1255919	0.61304482	-0.705936
TMEM192	509.5974387	312.2395375	0.612718028	-0.706705
TROAP	67.13918739	41.11339106	0.61236057	-0.707547
PRELID3B	377.5203488	231.1239281	0.612215815	-0.707888
SP1	2298.141365	1406.744678	0.612122779	-0.708107
TET1	1062.119932	650.0360479	0.612017559	-0.708355
GSTZ1	145.284799	88.89381852	0.611859046	-0.708729
SAV1	1816.059987	1111.172731	0.611859046	-0.708729
PABIR1	432.5524696	264.4591101	0.611391978	-0.70983
DDX52	161.7944352	98.8943731	0.6112347	-0.710202
RP2	245.4432588	150.0083187	0.611173106	-0.710347
CHIT1	41.82441182	25.55697282	0.611053969	-0.710628
SLX4IP	298.2740948	182.232328	0.610955933	-0.71086
FOXRED2	676.895086	413.3562561	0.610665175	-0.711547
SUMO3	526.107075	321.1289194	0.610387	-0.712204
MAP3K12	194.8137077	118.8954823	0.610303472	-0.712401
RAPGEF5	152.9892959	93.33850944	0.610098301	-0.712886
RAB8A	823.2805274	502.2500746	0.610059461	-0.712978
CD200R1	52.83083598	32.22400921	0.609946987	-0.713244
TASOR	2871.576064	1751.208225	0.609842186	-0.713492
CCDC146	169.4989321	103.339064	0.609673835	-0.71389
GHR	127.6745203	77.7820912	0.609221723	-0.714961
NDUFAF2	127.6745203	77.7820912	0.609221723	-0.714961
BCAT1	63.83726015	38.8910456	0.609221723	-0.714961
EIF4E	992.7794595	604.4779659	0.608874368	-0.715784
PNPLA8	753.9400552	458.9143381	0.608688098	-0.716225
SEC11A	834.2869516	507.8059383	0.608670599	-0.716266
MAPK13	315.8843735	192.2328825	0.608554581	-0.716541
IL20RA	160.6937928	97.78320037	0.608506394	-0.716656
ZNF320	1063.220574	646.7025297	0.608248698	-0.717267
RNF150	456.7666028	277.7931829	0.608173148	-0.717446
RBM5	2371.884407	1442.302205	0.60808284	-0.71766
SLC7A1	403.9357668	245.5691736	0.607941148	-0.717996
WNK1	12702.51413	7721.539311	0.607874885	-0.718154
CXCR4	312.5824462	190.0105371	0.607873345	-0.718157
MDM1	318.0856583	193.3440553	0.607836443	-0.718245
SNW1	1371.400451	833.3795486	0.607685048	-0.718604
RTF1	491.9871601	298.9054648	0.607547288	-0.718931
EIF3B	1196.398307	726.7069664	0.607412233	-0.719252
RPS24	5190.629635	3152.397039	0.607324595	-0.71946
LRRC37B	419.3447606	254.4585555	0.606800369	-0.720706
RAD18	217.9271984	132.229555	0.606760221	-0.720802
WIPF2	835.3875945	506.6947655	0.606538533	-0.721329
VPS13C	9076.998007	5502.527366	0.606205638	-0.722121
WASHC3	482.0813783	292.2384284	0.606201445	-0.722131
OXCT1	997.1820292	604.4779659	0.606186181	-0.722167
WDR26	3074.094269	1863.436671	0.606174212	-0.722196
SAFB2	1439.640281	872.2705942	0.605894824	-0.722861
NBEA	3341.550376	2024.556717	0.605873469	-0.722912
SPATA13	181.6059987	110.0061004	0.605740456	-0.723228
MAMLD1	203.618847	123.3401732	0.605740456	-0.723228
TENT4A	621.8629652	376.687556	0.605740456	-0.723228
TRMT10C	247.6445437	150.0083187	0.605740456	-0.723228
CYP4F2	22.01284833	13.33407278	0.605740456	-0.723228
FOXN4	11.00642416	6.667036389	0.605740456	-0.723228
LRRTM2	11.00642416	6.667036389	0.605740456	-0.723228
GLIPR1L1	11.00642416	6.667036389	0.605740456	-0.723228
C18orf32	11.00642416	6.667036389	0.605740456	-0.723228
LINC00265	11.00642416	6.667036389	0.605740456	-0.723228
NUFIP1P1	11.00642416	6.667036389	0.605740456	-0.723228
ST13P4	11.00642416	6.667036389	0.605740456	-0.723228
FAM204BP	11.00642416	6.667036389	0.605740456	-0.723228
TNFRSF13B	11.00642416	6.667036389	0.605740456	-0.723228
INTS6P1	11.00642416	6.667036389	0.605740456	-0.723228
IPO5P1	11.00642416	6.667036389	0.605740456	-0.723228
ENSG000002	11.00642416	6.667036389	0.605740456	-0.723228
HDAC10	5.503212081	3.333518194	0.605740456	-0.723228
TUBB1	5.503212081	3.333518194	0.605740456	-0.723228
SYNGR4	5.503212081	3.333518194	0.605740456	-0.723228
GRK7	5.503212081	3.333518194	0.605740456	-0.723228
GCG	5.503212081	3.333518194	0.605740456	-0.723228
NPHS2	5.503212081	3.333518194	0.605740456	-0.723228
CRISP1	5.503212081	3.333518194	0.605740456	-0.723228
PROZ	5.503212081	3.333518194	0.605740456	-0.723228
IL22	5.503212081	3.333518194	0.605740456	-0.723228
ANGPTL6	5.503212081	3.333518194	0.605740456	-0.723228
JAKMIP1	5.503212081	3.333518194	0.605740456	-0.723228
CYLC2	5.503212081	3.333518194	0.605740456	-0.723228
KYAT1	5.503212081	3.333518194	0.605740456	-0.723228
VPS37D	5.503212081	3.333518194	0.605740456	-0.723228
FXNP2	5.503212081	3.333518194	0.605740456	-0.723228
RNF227	5.503212081	3.333518194	0.605740456	-0.723228
OR8H2	5.503212081	3.333518194	0.605740456	-0.723228
SEPTIN5	5.503212081	3.333518194	0.605740456	-0.723228
MIXL1	5.503212081	3.333518194	0.605740456	-0.723228
NPAP1	5.503212081	3.333518194	0.605740456	-0.723228
NKAIN3	5.503212081	3.333518194	0.605740456	-0.723228
SDHAP3	5.503212081	3.333518194	0.605740456	-0.723228
FAM205C	5.503212081	3.333518194	0.605740456	-0.723228
GUSBP9	5.503212081	3.333518194	0.605740456	-0.723228
NBPF7P	5.503212081	3.333518194	0.605740456	-0.723228
ILF3	3990.635799	2802.377629	1.424017862	0.509967
PRXL2A	1169.225586	821.1566485	1.423876416	0.509824
ZNF793	287.9498071	202.2334371	1.423848653	0.509796
SLC38A2	1029.814728	723.3734482	1.423628045	0.509572
GMNN	487.1081751	342.2412013	1.423289111	0.509229
SLFN12	66.38612267	46.66925472	1.422480883	0.508409
ERCC6L2-A	33.19306133	23.33462736	1.422480883	0.508409
UGGT1	2053.82067	1444.524551	1.421796998	0.507715
CNPY4	82.1528268	57.78098203	1.421796998	0.507715
ZNF487	48.95976547	34.44635467	1.421333721	0.507245
JRKL	453.0852872	318.9065739	1.42074615	0.506649
PCDH8	129.4529392	91.11616398	1.42074615	0.506649
IKZF5	614.0716347	432.2461925	1.420652502	0.506554
GAS6	836.4651456	588.9215477	1.420333742	0.50623
TCEAL1	112.026582	78.89326393	1.419976515	0.505867
MDK	5511.707835	3882.437524	1.419651392	0.505537
STXBP5	1448.047301	1020.056567	1.419575489	0.50546
TRIP11	2491.96908	1755.652916	1.419397341	0.505279
TERF2	380.0605523	267.7926283	1.419234557	0.505113
CGAS	15.76670413	11.11172731	1.418924681	0.504798
USH1G	15.76670413	11.11172731	1.418924681	0.504798
FAN1	15.76670413	11.11172731	1.418924681	0.504798
RAB44	15.76670413	11.11172731	1.418924681	0.504798
RDM1P5	15.76670413	11.11172731	1.418924681	0.504798
ENSG000002	15.76670413	11.11172731	1.418924681	0.504798
GATA6	94.6002248	66.67036389	1.418924681	0.504798
EIF1AY	47.3001124	33.33518194	1.418924681	0.504798
HSPA9	3524.273287	2485.6934	1.417823005	0.503677
SNX5	633.157645	446.691438	1.417438507	0.503286
PRKRIP1	77.1738676	54.44746384	1.417400594	0.503248
LTF	122.8143269	86.67147305	1.417009803	0.50285
OTUD1	368.4429808	260.0144192	1.417009803	0.50285
TRAPPC8	1405.726148	992.2772492	1.416666712	0.5025
TRIM32	319.4832153	225.5680645	1.4163495	0.502177
MTARC1	45.64045934	32.22400921	1.4163495	0.502177
SAYSD1	258.0760519	182.232328	1.416192477	0.502017
ZDHHC11	212.4355925	150.0083187	1.416158746	0.501983
UQCC2	317.8235623	224.4568918	1.415967047	0.501788
PDCL	558.473257	394.4663197	1.415769178	0.501586
PSME3	769.2491964	543.3634657	1.415717554	0.501533
PDCD4	2392.389896	1690.093725	1.41553682	0.501349
NCK1	433.999277	306.6836739	1.415136552	0.500941
BICDL1	463.8730322	327.7959558	1.41512738	0.500932
CLUAP1	253.0970927	178.8988098	1.414750009	0.500547
MRPL11	339.3990521	240.01331	1.414084295	0.499868
NMT1	1134.372871	802.2667121	1.413959789	0.499741
ZEB2	1806.532363	1277.848641	1.413729533	0.499506
MRPS15	497.89592	352.2417559	1.41350624	0.499278
KRBOX4	146.0494699	103.339064	1.413303587	0.499071
MOSPD1	102.0686636	72.22622754	1.413180047	0.498945
ZNF672	306.2059908	216.6786826	1.413180047	0.498945
GTF3C4	1194.950208	845.6024486	1.413134754	0.498899
FUCA2	891.2336968	631.1461115	1.412087757	0.49783
PNMA1	1077.11484	763.3756665	1.410989225	0.496707
OR56A3	28.21410213	20.00110917	1.410626876	0.496336
KCNK6	14.10705107	10.00055458	1.410626876	0.496336
NFE2	14.10705107	10.00055458	1.410626876	0.496336
SCDP1	14.10705107	10.00055458	1.410626876	0.496336
GEMIN8P4	14.10705107	10.00055458	1.410626876	0.496336
ENSG000002	14.10705107	10.00055458	1.410626876	0.496336
FAM172A	479.6397363	340.0188558	1.410626876	0.496336
FAM161A	548.5153386	388.910456	1.410389796	0.496094
RTTN	631.4979919	447.8026108	1.410215074	0.495915
C10orf88	195.8390619	138.8965914	1.409963051	0.495657
DDX52	139.4108576	98.8943731	1.409694538	0.495383
STXBP3	1126.074606	798.9331939	1.4094728	0.495156
SERTAD2	291.2691132	206.678128	1.40928852	0.494967
HS6ST1	453.9151138	322.2400921	1.408623957	0.494287
POLR1G	123.6441535	87.78264578	1.408526166	0.494186
WASHC5	2455.456712	1743.430016	1.408405666	0.494063
VDAC2	1192.460728	846.7136214	1.408340079	0.493996
METTL23	109.5371024	77.7820912	1.408256074	0.49391
ACVR2A	492.9169608	350.0194104	1.408256074	0.49391
TRIM44	574.2399611	407.8003924	1.408139795	0.493791
SPHKAP	150.1986025	106.6725822	1.408033812	0.493682
GOLGA5	1102.839463	783.3767757	1.407802091	0.493445
KCTD20	747.6737066	531.1405656	1.407675774	0.493315
ACSL3	1479.580709	1051.169404	1.407556863	0.493193
ZNF304	229.8619497	163.3423915	1.407240017	0.492868
MBNL1	1156.778188	822.2678213	1.406814371	0.492432
FAM104A	872.1476866	620.0343841	1.406611809	0.492224
FBXO25	415.7430932	295.5719466	1.406571557	0.492183
GCC2	1367.554127	972.27614	1.406549097	0.49216
MAZ	2439.690008	1734.540634	1.406533788	0.492144
VPS36	507.8538384	361.1311377	1.406286485	0.491891
HYCC2	516.9819303	367.7981741	1.405613096	0.4912
CRTC3	794.973819	565.5869203	1.405573203	0.491159
CAND1	2247.170252	1598.977561	1.40537948	0.49096
PSMD11	1744.295373	1241.179941	1.405352532	0.490932
COPS9	118.6651943	84.44912759	1.405167793	0.490742
IGF2R	8158.02465	5805.877522	1.405132061	0.490706
CITED2	1080.434146	768.9315302	1.405110994	0.490684
B4GALNT4	184.2214904	131.1183823	1.405001245	0.490571
KIF21B	288.7796336	205.5669553	1.404795986	0.490361
COQ7	313.6744296	223.345719	1.404434484	0.489989
METAP1	728.5876963	518.9176656	1.404052598	0.489597
DNAI3	39.00184707	27.77931829	1.403988632	0.489531
HIPK3	3155.00048	2247.902436	1.403530878	0.489061
ANO4	90.45109214	64.44801842	1.403473595	0.489002
OXTR	51.44924507	36.66870014	1.403083417	0.488601
ZNF638	3442.12046	2453.469391	1.402960425	0.488474
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
ENSG000002	2.201284833	2.4894796	1.130921162	0.177498
SMG1P5.1	2.201284833	2.4894796	1.130921162	0.177498
PHEX	52.83083598	59.7475104	1.130921162	0.177498
NAPSA	6.603854498	7.4684388	1.130921162	0.177498
POU4F2	6.603854498	7.4684388	1.130921162	0.177498
PTGIR	6.603854498	7.4684388	1.130921162	0.177498
EXOSC4	6.603854498	7.4684388	1.130921162	0.177498
KTN1-AS1	6.603854498	7.4684388	1.130921162	0.177498
SP9	6.603854498	7.4684388	1.130921162	0.177498
PPM1F-AS1	6.603854498	7.4684388	1.130921162	0.177498
SGO1-AS1	6.603854498	7.4684388	1.130921162	0.177498
HDAC1P2	6.603854498	7.4684388	1.130921162	0.177498
PITRM1-AS1	6.603854498	7.4684388	1.130921162	0.177498
ENSG000002	6.603854498	7.4684388	1.130921162	0.177498
B4GAT1-DT	6.603854498	7.4684388	1.130921162	0.177498
ATP6V1E1P3	6.603854498	7.4684388	1.130921162	0.177498
ENSG000002	6.603854498	7.4684388	1.130921162	0.177498
EIF5AP3	6.603854498	7.4684388	1.130921162	0.177498
ENSG000002	6.603854498	7.4684388	1.130921162	0.177498
ENSG000002	6.603854498	7.4684388	1.130921162	0.177498
LANCL2	228.9336226	258.9058784	1.130921162	0.177498
ROBO4	57.23340565	64.7264696	1.130921162	0.177498
ATF6B	28.61670282	32.3632348	1.130921162	0.177498
ENSG000002	28.61670282	32.3632348	1.130921162	0.177498
ORMDL2	226.7323378	256.4163988	1.130921162	0.177498
ADAMTSL5	26.41541799	29.8737552	1.130921162	0.177498
MRPL3P1	26.41541799	29.8737552	1.130921162	0.177498
ARMCX5-GF	26.41541799	29.8737552	1.130921162	0.177498
ZNF22-AS1	13.207709	14.9368776	1.130921162	0.177498
VWA3B	13.207709	14.9368776	1.130921162	0.177498
CCR10	13.207709	14.9368776	1.130921162	0.177498
MAP4K3-DT	13.207709	14.9368776	1.130921162	0.177498
DNAAF10	13.207709	14.9368776	1.130921162	0.177498
SPINT1-AS1	13.207709	14.9368776	1.130921162	0.177498
RSF1	2781.323386	3144.212735	1.130473627	0.176927
LMBR1	661.4860922	747.6737066	1.130293918	0.176698
ZNF33A	2394.997898	2706.894152	1.130228195	0.176614
ZC3H15	549.2205657	620.710247	1.130165703	0.176534
GSK3A	478.7794511	541.0468998	1.130054555	0.176392
BRPF3	955.3576173	1079.60432	1.130052559	0.17639
SCRN3	403.9357668	456.4045934	1.129893985	0.176187
EHD4	368.7152095	416.5729197	1.129795867	0.176062
RTF2	713.2162858	805.7615639	1.129757663	0.176013
TXNL1	991.6788171	1120.26582	1.129665977	0.175896
SCFD1	1384.60816	1563.393189	1.129123195	0.175203
UFSP2	621.8629652	702.0332472	1.128919531	0.174943
KDM5A	2561.194903	2891.115642	1.128815163	0.174809
ZNF211	391.8287002	442.2975423	1.128803332	0.174794
DDX18	369.8158519	417.4027463	1.12867727	0.174633
GLCCI1	350.0042884	394.9974299	1.128550258	0.174471
PRMT2	693.4047223	782.526421	1.128527678	0.174442
PTGFRN	1005.987168	1135.202698	1.128446498	0.174338
SNX8	163.99572	185.0513169	1.128391137	0.174267
SWT1	325.7901552	367.6131543	1.128374042	0.174245
SUGP1	463.3704573	522.790716	1.128234888	0.174067
COA7	150.788011	170.1144393	1.128169529	0.173984
EDRF1	969.6659688	1093.711371	1.127925911	0.173672
ZCCHC10	133.1777324	150.1986025	1.127805676	0.173519
RBM41	521.7045053	588.3470122	1.127739949	0.173434
KLHL25	128.7751627	145.2196433	1.127699164	0.173382
SPOP	770.4496914	868.8283804	1.127689958	0.17337
ZSCAN23	117.7687385	132.7722453	1.127398043	0.172997
SPINT1	533.8115719	601.6242367	1.127034835	0.172532
ISCU	507.3961539	571.7504815	1.12683251	0.172273
SF1	3347.053588	3771.561594	1.126830358	0.17227
ATP5MG	93.55460539	105.3879697	1.126486177	0.17183
SH3D21	178.3040714	200.8180211	1.126267165	0.171549
MANBA	695.6060071	783.3562475	1.126149342	0.171398
DLX5	86.95075089	97.91953094	1.126149342	0.171398
ASAP2	691.2034374	778.3772883	1.126118949	0.171359
WDR44	769.349049	866.3389008	1.126067423	0.171293
ZNF429	495.2890873	557.6434304	1.125894845	0.171072
MAP3K20	981.7730353	1105.328942	1.125849766	0.171014
UROD	238.8394043	268.8637968	1.125709543	0.170835
TTPAL	156.2912231	175.9232251	1.125611673	0.170709
RBBP5	685.7002254	771.738676	1.125475313	0.170534
OSER1	531.6102871	598.3049306	1.125457774	0.170512
ZSWIM6	1266.839421	1425.641984	1.125353348	0.170378
SDHC	583.3404806	656.3927879	1.125230992	0.170221
BNIP2	1187.593167	1336.020719	1.124981817	0.169902
AEN	67.13918739	75.51421454	1.124741265	0.169593
ARMCX4	575.6359837	647.264696	1.124434042	0.169199
NPC1	696.7066495	783.3562475	1.124370276	0.169117
TRMT1L	569.0321292	639.7962572	1.124358757	0.169102
TMEM69	315.8843735	355.1657563	1.124353675	0.169096
STRIP1	372.0171367	418.2325728	1.124229321	0.168936
ORC3	462.2698148	519.4714099	1.12374071	0.168309
LAMC1	2343.267704	2633.03959	1.123661452	0.168207
VEGFA	507.3961539	570.0908284	1.123561588	0.168079
AK8	56.13276323	63.06681654	1.12352952	0.168038
ATP6V0B	224.5310529	252.2672661	1.12352952	0.168038
NPEPPS	1180.989313	1326.0628	1.122840644	0.167153
HOOK3	1681.781612	1887.855363	1.122533003	0.166758
CPSF7	1427.533214	1602.395036	1.122492297	0.166706
ELP6	195.9143501	219.9040313	1.122449842	0.166651
TP53BP1	2878.179919	3230.514694	1.122415827	0.166607
SUSD1	486.483948	546.025859	1.122392344	0.166577

SEPTIN7-DT	5.503212081	3.333518194	0.605740456	-0.723228
TXNP6	5.503212081	3.333518194	0.605740456	-0.723228
DNAJC17P1	5.503212081	3.333518194	0.605740456	-0.723228
RNF223	5.503212081	3.333518194	0.605740456	-0.723228
RETREG1-AS	5.503212081	3.333518194	0.605740456	-0.723228
GLUD1P3	5.503212081	3.333518194	0.605740456	-0.723228
LINC02615	5.503212081	3.333518194	0.605740456	-0.723228
SNORA74	5.503212081	3.333518194	0.605740456	-0.723228
PPIAP85	5.503212081	3.333518194	0.605740456	-0.723228
IGHV3OR16-	5.503212081	3.333518194	0.605740456	-0.723228
ENSG000002	5.503212081	3.333518194	0.605740456	-0.723228
ENSG000002	5.503212081	3.333518194	0.605740456	-0.723228
MIR3677HG	5.503212081	3.333518194	0.605740456	-0.723228
LINC01569	5.503212081	3.333518194	0.605740456	-0.723228
ENSG000002	5.503212081	3.333518194	0.605740456	-0.723228
ENSG000002	5.503212081	3.333518194	0.605740456	-0.723228
ZNF818P	5.503212081	3.333518194	0.605740456	-0.723228
ZNF132-DT	5.503212081	3.333518194	0.605740456	-0.723228
BMS1P4.1	5.503212081	3.333518194	0.605740456	-0.723228
RNVU1-27	5.503212081	3.333518194	0.605740456	-0.723228
ENSG000002	5.503212081	3.333518194	0.605740456	-0.723228
CCT6P3.1	5.503212081	3.333518194	0.605740456	-0.723228
OTULIN	264.1541799	160.0088733	0.605740456	-0.723228
P3H3	55.03212081	33.33518194	0.605740456	-0.723228
UBASH3B	55.03212081	33.33518194	0.605740456	-0.723228
PLLP	33.01927249	20.00110917	0.605740456	-0.723228
TMEM154	33.01927249	20.00110917	0.605740456	-0.723228
GINS2	16.50963624	10.00055458	0.605740456	-0.723228
TMEM61	16.50963624	10.00055458	0.605740456	-0.723228
RAD17	16.50963624	10.00055458	0.605740456	-0.723228
SOX17	16.50963624	10.00055458	0.605740456	-0.723228
ENSG000002	16.50963624	10.00055458	0.605740456	-0.723228
ENSG000002	16.50963624	10.00055458	0.605740456	-0.723228
FRG1DP	16.50963624	10.00055458	0.605740456	-0.723228
ZNF845	407.237694	246.6803464	0.605740456	-0.723228
TBCEL	71.54175706	43.33573653	0.605740456	-0.723228
TEAD4	71.54175706	43.33573653	0.605740456	-0.723228
HMG20A	209.1220591	126.6736914	0.605740456	-0.723228
GRIA3	38.52248457	23.33462736	0.605740456	-0.723228
XNDC1N	49.52890873	30.00166375	0.605740456	-0.723228
ENSG000002	49.52890873	30.00166375	0.605740456	-0.723228
NEK6	849.6959454	514.4729747	0.60547891	-0.723851
PTPRM	2468.74094	1494.527324	0.605380378	-0.724086
MGA	3617.811622	2189.010281	0.605064749	-0.724839
RPS12	216.826556	131.1183823	0.604715514	-0.725672
GFPT1	2975.036451	1798.988652	0.604694659	-0.725721
EML4	2226.599608	1345.630178	0.604343131	-0.72656
L3MBTL4	156.2912231	94.44968217	0.60431853	-0.726619
WASHC4	2153.957209	1301.183269	0.604089656	-0.727165
MAPK1	1942.633865	1173.398404	0.604024477	-0.727321
TFAP2A	723.1220675	436.6908835	0.603896497	-0.727627
ZNF407	2035.087828	1228.957041	0.603884031	-0.727657
NSUN5	117.7687385	71.11505481	0.603853414	-0.72773
GYG1	347.8030036	210.0116462	0.603823556	-0.727801
SNRPF	454.5653179	274.4596647	0.603784877	-0.727893
ZNF816	405.0364092	244.4580009	0.603545744	-0.728465
TIGD1	101.2591023	61.11450023	0.603545744	-0.728465
ANKRD42	445.7601786	268.903801	0.603247697	-0.729178
PELI2	355.5075005	214.4563372	0.603239979	-0.729196
CSK	338.9978642	204.4557826	0.603118203	-0.729487
KBTBD6	396.2312699	238.9021373	0.602936102	-0.729923
MAGI1	1491.370474	898.9387397	0.602760183	-0.730344
ZNF195	595.4475472	358.9087923	0.602754674	-0.730357
ANXA4	953.1563325	574.4763022	0.602709422	-0.730465
SLC35B3	431.4518272	260.0144192	0.602649943	-0.730608
MASTL	267.4561072	161.1200461	0.602416777	-0.731166
UBXN2B	461.1691724	277.7931829	0.602367199	-0.731285
LETMD1	537.1134992	323.3512648	0.602016641	-0.732125
TGIF2	171.7002169	103.339064	0.601857504	-0.732506
MPP7	967.4646839	582.2545113	0.601835417	-0.732559
ELK4	5758.561122	3464.636577	0.601649701	-0.733004
PPP6R3	3295.323394	1982.332153	0.601559215	-0.733221
DNAI4	580.0385534	348.9082377	0.601525943	-0.733301
RB1	1568.415443	943.385649	0.601489646	-0.733388
XBP1	2983.841591	1794.543961	0.601420654	-0.733554
ANO7	195.9143501	117.7843095	0.601203074	-0.734076
MED4	340.0985066	204.4557826	0.601166364	-0.734164
TCF4	1292.154197	776.7097393	0.60109679	-0.734331
SMARCA5	2975.036451	1787.876925	0.60095967	-0.73466
PCBD2	46.22698148	27.77931829	0.600932992	-0.734724
CHODL	46.22698148	27.77931829	0.600932992	-0.734724
CHAMP1	1155.674537	694.4829571	0.600932992	-0.734724
SARS1	1225.015009	735.5963482	0.600479457	-0.735813
HEPACAM2	285.0663858	171.1206006	0.600283335	-0.736284
WDR20	844.1927333	506.6947655	0.600212186	-0.736455
SLC2A12	1690.586751	1014.500704	0.60008793	-0.736754
COBLL1	5157.610363	3094.616057	0.600009663	-0.736942
GSDMB	444.6595362	266.6814555	0.599743025	-0.737584
PITHD1	333.4946521	200.0110917	0.599743025	-0.737584
PPRC1	848.595303	508.917111	0.599717096	-0.737646
ETFA	902.5267814	541.1411202	0.599584557	-0.737965
UBE2L6	574.5353413	344.4635467	0.599551537	-0.738044
MAP3K2	1108.346913	664.4812934	0.599524648	-0.738109
TNFRSF10D	70.44111464	42.22456379	0.599430659	-0.738335
MUC2	35.22055732	21.1122819	0.599430659	-0.738335
ITPRIPL1	35.22055732	21.1122819	0.599430659	-0.738335
ZNF493	774.8522611	464.4702017	0.599430659	-0.738335
QRSL1	205.8201318	123.3401732	0.599261948	-0.738741
SENP1	406.1370516	243.3468282	0.599174164	-0.738953
PDE8A	771.5503338	462.2478563	0.59911562	-0.739094
KIF3A	944.3511932	565.5869203	0.598915874	-0.739575
FAM120AO	537.7275936	383.3545923	1.402689845	0.488196
ZNF891	626.5190327	446.691438	1.402576766	0.48808
RAB6B	419.0623993	298.9054648	1.401989755	0.487476
ZNF557	355.1657563	253.3473828	1.401892344	0.487376
GPN1	266.3743172	190.0105371	1.401892344	0.487376
CENPX	88.79143907	63.33684569	1.401892344	0.487376
RANGRF	202.4776741	144.4524551	1.401690778	0.487168
IARS2	3212.258511	2292.349345	1.401295364	0.486761
PRPS2	1123.585126	802.2667121	1.400513207	0.485956
CCDC175	12.447398	8.889381852	1.400254619	0.485689
KCNE3	12.447398	8.889381852	1.400254619	0.485689
CEP57L1P1	12.447398	8.889381852	1.400254619	0.485689
OVCH1-AS1	12.447398	8.889381852	1.400254619	0.485689
ENSG000002	12.447398	8.889381852	1.400254619	0.485689
C7orf50	124.47398	88.89381852	1.400254619	0.485689
NUP85	771.738676	551.1416748	1.400254619	0.485689
FCGR2A	149.368776	106.6725822	1.400254619	0.485689
PLEKHG5	458.894073	327.7959558	1.399938178	0.485363
GTDC1	334.4200929	238.9021373	1.399820432	0.485242
ZNF7	715.3104718	511.1394565	1.399442878	0.484853
FOXP1	220.7338579	157.7865279	1.398939826	0.484334
ITFG1	2525.162141	1805.655689	1.398473783	0.483853
CHCHD1	279.6515417	200.0110917	1.398180168	0.48355
DCAF8	133.6020719	95.5608549	1.398083682	0.483451
EEF1AKMT	108.7072759	77.7820912	1.397587468	0.482939
TMEM81	48.12993894	34.44635467	1.397243319	0.482583
ATP1B1	2426.412784	1736.762979	1.39708919	0.482424
KHSRP	1957.560792	1401.188814	1.397071381	0.482406
NR2C1	720.289431	515.5841474	1.397035643	0.482369
USP38	1250.548586	895.6052215	1.396316765	0.481626
NDUFA10	1268.80477	908.9392943	1.395918052	0.481214
VPS37B	224.8829905	161.1200461	1.395748053	0.481039
PCMTD1	1046.411259	750.0415937	1.395137639	0.480407
MORC4	966.7479114	693.3717844	1.394270625	0.479511
SDCBP2-AS	23.23514293	16.66759097	1.394031265	0.479263
IKZF1	46.47028587	33.33518194	1.394031265	0.479263
NKIRAS1	209.1162864	150.0083187	1.394031265	0.479263
RSF1	3144.212735	2255.680645	1.393908638	0.479136
EXOC6	521.9608895	374.4652105	1.39388353	0.47911
SH3GLB1	1441.408688	1034.501813	1.393336068	0.478543
CHST10	438.1484096	314.461883	1.393327565	0.478534
VKORC1L1	321.9726949	231.1239281	1.393073826	0.478272
PKN1	1458.005219	1046.724713	1.392921368	0.478114
ZNF45	663.8612267	476.6931018	1.392638627	0.477821
ZMYM2	2840.496224	2040.113135	1.392322894	0.477494
STXBP4	488.7678282	351.1305831	1.391983073	0.477142
NTMT1	102.0686636	73.33740027	1.391768228	0.476919
LXN	34.02288787	24.44580009	1.391768228	0.476919
JAML	34.02288787	24.44580009	1.391768228	0.476919
PRR29	34.02288787	24.44580009	1.391768228	0.476919
CUL3	2446.32862	1757.875261	1.391639483	0.476786
FLI1	180.9021843	130.0072096	1.391478095	0.476618
SLC25A35	123.6441535	88.89381852	1.390919589	0.476039
RPRD1B	618.2207674	444.4690926	1.390919589	0.476039
EIF3A	7051.865881	5071.392346	1.390518698	0.475623
ENSG000002	245.6286539	176.6764643	1.390273769	0.475369
PRRC1	848.0827171	610.0338296	1.390222437	0.475316
OXNAD1	211.605766	152.2306642	1.390033783	0.47512
SERGEF	365.9535012	263.3479374	1.389619774	0.47469
PDIA5	243.9690008	175.5652916	1.389619774	0.47469
ENSG000002	66.38612267	47.78042745	1.389399932	0.474462
RPS24	4379.824443	3152.397039	1.389363202	0.474424
TMEM183A	1487.878974	1071.170513	1.389021595	0.474069
POLR2I	186.71097	134.4519005	1.388682267	0.473717
CELF1	1691.186475	1217.845314	1.388671004	0.473705
PKN3	98.74935747	71.11505481	1.388585831	0.473616
PLEKHG6	120.3248473	86.67147305	1.388286631	0.473305
SFMBT1	621.5400735	447.8026108	1.38797778	0.472984
SCFD1	1563.393189	1126.72915	1.38755014	0.47254
NR1D2	1290.380259	930.0515762	1.387428711	0.472414
CHAC1	21.57548987	15.55641824	1.386918861	0.471883
LYPLA1P3	21.57548987	15.55641824	1.386918861	0.471883
SIRPB1	10.78774493	7.77820912	1.386918861	0.471883
WFDC2	10.78774493	7.77820912	1.386918861	0.471883
ENSG000002	10.78774493	7.77820912	1.386918861	0.471883
ENSG000002	10.78774493	7.77820912	1.386918861	0.471883
STMP1	419.0623993	302.238983	1.386526633	0.471475
PHLDB1	1284.571474	926.718058	1.386151335	0.471085
SPEN	16150.08399	11652.86843	1.385932063	0.470857
SLC7A5	149.368776	107.7837549	1.385819005	0.470739
ATP5MC3	1078.774493	778.9320847	1.384940375	0.469824
MOCOS	136.921378	98.8943731	1.384521421	0.469387
SMURF2	1136.862351	821.1566485	1.384464648	0.469328
C2CD3	4006.402503	2894.604965	1.384093011	0.468941
APC	1896.153629	1370.075978	1.383797991	0.46882
DYRK1B	52.2790716	37.77987287	1.383781036	0.468616
ZSWIM7	146.0494699	105.5614095	1.383549827	0.468375
FAM53B	165.9653067	120.006655	1.382967525	0.467767
C17orf75	434.8291035	314.461883	1.382772053	0.467563
RAB8B	196.6688884	142.2301096	1.382751437	0.467542
HSDL1	227.3724701	164.4535643	1.38259375	0.467377
MAX	485.448522	351.1305831	1.382529877	0.467311
APOBEC3C	72.1949084	52.22511838	1.382379028	0.467153
ANKRD17	9670.79842	6998.165863	1.381904718	0.466658
DUS2	92.1107452	66.67036389	1.381584558	0.466324
TLK1	3656.215706	2646.813446	1.381365094	0.466095
AQR	1582.479199	1145.619086	1.381331036	0.466059
TFDP2	773.3983291	560.0310566	1.380991857	0.465705
POLK	426.5308382	308.9060193	1.380778656	0.465482
TMEM163	50.61941854	36.66870014	1.380453039	0.465142
EFHC1	1041.432299	754.4862846	1.380319723	0.465002
XAB2	860.7023695	965.9180848	1.122244017	0.166386
IQCG	522.8051477	586.6873591	1.122191244	0.166319
ANKRD26	1190.895094	1336.020719	1.121862643	0.165896
ABHD13	365.4132822	409.9343075	1.121837458	0.165864
DENND10P1	45.12633907	50.61941854	1.121726681	0.165721
CWC22	1076.428283	1207.397606	1.121670273	0.165649
NDUFV1	659.2848074	739.3754412	1.121481085	0.165405
TADA3	609.7558986	683.7770635	1.12139475	0.165294
P4HB	5853.21637	6562.268226	1.121138843	0.164965
FZD3	452.3640331	507.0240119	1.120831841	0.16457
PHF20	726.4239948	814.0598292	1.12064006	0.164323
NCBP2	622.9636076	697.8841146	1.120264661	0.16384
RCN1	77.04496914	86.30195947	1.120150484	0.163693
SCRN2	113.3661689	126.9634596	1.119941345	0.163423
BAG3	587.7430503	658.052441	1.119626069	0.163017
NDFIP2	179.4047139	200.8180211	1.119357551	0.162671
UPF1	1101.743059	1233.122229	1.119246651	0.162528
MRFAP1L1	236.6381195	264.7146641	1.118647599	0.161756
ASXL2	2659.152078	2974.098296	1.118438588	0.161486
METAP1	651.5803104	728.5876963	1.118185563	0.16116
SDHD	161.7944352	180.9021843	1.118098926	0.161048
KLHL8	419.3447606	468.8519914	1.118058541	0.160996
NSD1	8196.484074	9163.774408	1.118012836	0.160937
CEP44	191.5117804	214.0952456	1.117922068	0.16082
PPP2R5B	95.75589022	107.0476228	1.117922068	0.16082
HS3ST2	31.91863007	35.68254093	1.117922068	0.16082
STX18-AS1	31.91863007	35.68254093	1.117922068	0.16082
NIBAN2	1615.743067	1805.702537	1.117567869	0.160362
ERG28	329.0920825	367.6131543	1.117052563	0.159697
FSCN2	29.71734524	33.19306133	1.116959172	0.159576
KLHDC2	653.7815953	730.2473494	1.116959172	0.159576
LARP4B	1542.000025	1721.890057	1.1166602	0.15919
FAAP20	199.2162773	222.3935109	1.116342068	0.158779
AIDA	197.0149925	219.9040313	1.116179173	0.158569
NEURL2	27.51606041	30.70358173	1.115842213	0.158133
CYSTM1	82.54818122	92.1107452	1.115842213	0.158133
HYCC2	463.3704573	516.9819303	1.115698945	0.157948
FAF2	1034.603871	1154.288708	1.115681799	0.157926
LRFN3	135.3790172	151.0284291	1.115597027	0.157816
RAB11A	1028.000017	1146.820269	1.115583901	0.157799
CRTC1	830.9850243	926.9162378	1.115442771	0.157616
ZNF791	648.2783832	722.7789106	1.114920579	0.156941
PPIP5K2	998.2826716	1112.797381	1.114711707	0.156671
YAF2	202.5182046	225.7128171	1.114531	0.156437
SP6	25.31477557	28.21410213	1.114531	0.156437
ARFGAP2	394.029985	438.9782362	1.114073174	0.155844
MMUT	1278.946488	1424.812158	1.114051425	0.155816
IL18RAP	48.42826632	53.93872467	1.113785993	0.155472
IMMP1L	48.42826632	53.93872467	1.113785993	0.155472
ATP6V1G1	648.2783832	721.949084	1.113640533	0.155284
SMARCAD1	814.4753881	907.000401	1.113600748	0.155232
SLC66A3	143.0835141	159.3266944	1.113522375	0.155131
LRP3	235.5374771	262.2251845	1.113305567	0.15485
CGRRF1	117.7687385	131.1125923	1.113305567	0.15485
CNOT1	5873.027933	6538.203256	1.113259349	0.15479
NDUFAF7	374.2184215	416.5729197	1.113181222	0.154688
UBE2K	651.5803104	725.2683902	1.113091324	0.154572
KIAA1549	626.2655349	697.054288	1.113033129	0.154497
TMC3-AS1	23.11349074	25.72462253	1.112970032	0.154415
ZNF160	1869.991465	2080.375119	1.112505141	0.153812
CARNMT1	312.5824462	347.6973175	1.11233795	0.153595
U2SURP	2704.278417	3007.291357	1.112049461	0.153221
EML5	1031.301944	1146.820269	1.112012128	0.153173
ZFP37	108.9635992	121.1546739	1.111882085	0.153004
ZNF92	192.6124229	214.0952456	1.111533942	0.152552
BOK	106.7623144	118.6651943	1.111489527	0.152494
RNF32	20.91220591	23.23514293	1.11108044	0.151963
FIGN	518.4025781	575.8996142	1.110911941	0.151744
CLUAP1	227.8329802	253.0970927	1.110888742	0.151714
NRP2	551.4218506	612.4119816	1.110605213	0.151346
TEFM	141.9828717	157.6670413	1.110465223	0.151164
CEBPB	160.6937928	178.4127047	1.110265067	0.150904
ZDHHC5	1083.032138	1202.418647	1.110233579	0.150863
N4BP1	1879.897247	2087.013731	1.110174364	0.150786
FOCAD	1391.212014	1544.307179	1.110044452	0.150617
NADSYN1	418.2441182	463.8730322	1.109096367	0.149385
CLCN6	472.1755966	523.6205426	1.108952996	0.149198
ACSL4	825.4818122	915.2986663	1.10880537	0.149006
TIMM10B	74.84368431	82.98265334	1.108746237	0.148929
TRNT1	355.5075005	394.1676033	1.108746237	0.148929
BLOC1S2	112.2655265	124.47398	1.108746237	0.148929
HDAC5	465.5717421	516.1521038	1.108641391	0.148793
UVRAG	425.9486151	472.1712975	1.108517039	0.148631
JUNB	517.3019357	573.4101346	1.108463153	0.148561
PWWP2B	163.99572	181.7320108	1.108150937	0.148154
RPL18A	611.9571835	677.9682778	1.107868812	0.147787
LNX2	501.8929418	555.9837774	1.107773653	0.147663
WDR45B	961.9614718	1065.497269	1.107629879	0.147476
ZNF235	495.2890873	548.5153386	1.107465019	0.147261
RPL36AL	2368.58248	2623.081672	1.107447891	0.147239
EPPK1	1193.096379	1321.083841	1.107273364	0.147011
MAPK3	526.107075	582.5382264	1.107261723	0.146996
ALDH5A1	263.0535375	291.2691132	1.107261723	0.146996
RPP38	138.6809445	153.5179087	1.106986322	0.146637
NR6A1	103.4603871	114.5160616	1.106859009	0.146471
C11orf68	155.1905807	171.7740924	1.106859009	0.146471
WDR77	119.9700234	132.7722453	1.10671184	0.14628
ZNRD2	68.23982981	75.51421454	1.106600276	0.146134
PLAGL2	268.5567496	297.0778989	1.106201573	0.145614
UNC93B1	183.8072835	203.3075007	1.106090557	0.14547
RITA1	115.5674537	127.7932861	1.10578958	0.145077

SUOX	773.7516187	463.359029	0.59884725	-0.73974
SLC39A10	1479.263408	885.604667	0.598679493	-0.740144
GRIN2A	59.43469048	35.55752741	0.598262179	-0.74115
CD33	29.71734524	17.7787637	0.598262179	-0.74115
SLC7A13	29.71734524	17.7787637	0.598262179	-0.74115
HSPA4L	167.2976473	100.0055458	0.597770187	-0.742337
RIPOR1	1593.730219	952.2750308	0.597513318	-0.742957
PARP12	431.4518272	257.7920737	0.597499089	-0.742992
ZNF343	385.2248457	230.0127554	0.597087021	-0.743987
SLU7	1130.359762	674.481848	0.596696619	-0.74493
CTDSP2	489.7858753	292.2384284	0.596665692	-0.745005
RPS6KC1	1888.702386	1126.72915	0.59656257	-0.745255
IMMP1L	48.42826632	28.89049102	0.59656257	-0.745255
FXYD3	24.21413316	14.44524551	0.59656257	-0.745255
RAD9B	24.21413316	14.44524551	0.59656257	-0.745255
KIF6	24.21413316	14.44524551	0.59656257	-0.745255
GHRLOS	24.21413316	14.44524551	0.59656257	-0.745255
SSBP2	333.4946521	198.8999189	0.59641112	-0.745621
STEAP2	5956.676757	3552.419222	0.596376028	-0.745706
RIPK1	709.9143585	423.3568107	0.596349131	-0.745771
TBC1D22A	685.7002254	408.9115652	0.596341594	-0.745789
ZNF331	279.5631737	166.6759097	0.596201236	-0.746129
SGO2	139.7815869	83.33795486	0.596201236	-0.746129
ETV6	905.8287086	540.0299475	0.596172259	-0.746199
CEBPZOS	298.2740948	177.787637	0.596054569	-0.746484
EIF3L	1439.640281	857.8253487	0.595860897	-0.746953
SLC38A5	67.13918739	40.00221833	0.595810284	-0.747075
RGS1	67.13918739	40.00221833	0.595810284	-0.747075
ZDHHC3	531.6102871	316.6842285	0.595707488	-0.747324
ZNF777	636.1713166	378.9099014	0.595609848	-0.74756
GALNT17	85.85010847	51.11394565	0.595385918	-0.748103
LARP1B	490.8865177	292.2384284	0.595327877	-0.748244
CYB5R3	761.6445521	453.3584744	0.595236286	-0.748466
DNAJC24	104.5610295	62.22567296	0.59511343	-0.748763
ANKRA2	283.9657434	168.8982552	0.59478391	-0.749562
TERF1	340.0985066	202.2334371	0.594631947	-0.749931
NBN	2345.468989	1394.521778	0.594559887	-0.750106
ZC3H18	693.4047223	412.2450834	0.59452304	-0.750195
ATAD2B	2213.391899	1315.628514	0.594394745	-0.750507
RABEP1	1996.565343	1186.732477	0.594386996	-0.750526
EDC3	733.0278493	435.5797107	0.594219866	-0.750931
ZNF70	342.2997915	203.3446099	0.594054145	-0.751334
ZNF382	187.1092108	111.1172731	0.593863192	-0.751797
SLC8A3	37.42184215	22.22345463	0.593863192	-0.751797
POLR3E	18.71092108	11.11172731	0.593863192	-0.751797
MAEL	18.71092108	11.11172731	0.593863192	-0.751797
AIDAP2	18.71092108	11.11172731	0.593863192	-0.751797
ZSCAN16	112.2655265	66.67036389	0.593863192	-0.751797
CEBPZ	1180.989313	701.1499935	0.593697154	-0.752201
TFAP2C	350.0042884	207.7893008	0.593676442	-0.752251
UBE4A	1645.460412	976.7208309	0.593585129	-0.752473
PDIA3	4287.002211	2543.474382	0.59329906	-0.753169
BACE1	213.5246288	126.6736914	0.593250962	-0.753286
SECISBP2L	3286.518255	1948.996971	0.593027885	-0.753828
ZNF121	730.8265644	433.3573653	0.59296882	-0.753972
AP3M1	1525.490389	904.4946034	0.592920552	-0.754089
RAPH1	3647.528968	2162.342135	0.592823842	-0.754325
ARMCX5	322.488228	191.1217098	0.59264709	-0.754755
CUL1	847.4946605	502.2500746	0.59262919	-0.754798
LYRM7	50.62955115	30.00166375	0.592572185	-0.754937
PER2	860.7023695	510.0282837	0.592572185	-0.754937
ZSCAN25	133.1777324	78.89326393	0.592390804	-0.755379
HSPA12A	82.54818122	48.89160018	0.592279557	-0.75565
TRIM47	114.4668113	67.78153662	0.592150125	-0.755965
NIPSNAP2	553.6231354	327.7959558	0.592092228	-0.756106
CSPG4	292.7708827	173.3429461	0.592077137	-0.756143
LGALSL	210.2227015	124.4513459	0.591997653	-0.756337
ATP13A4	210.2227015	124.4513459	0.591997653	-0.756337
AQP1	63.83726015	37.77987287	0.591815388	-0.756781
HOXA4	31.91863007	18.88993643	0.591815388	-0.756781
DPY19L1P1	31.91863007	18.88993643	0.591815388	-0.756781
FLRT3	542.6167112	321.1289194	0.591815388	-0.756781
SNRPB2	390.7280578	231.1239281	0.591521196	-0.757498
KLF7	403.9357668	238.9021373	0.591435958	-0.757706
METTL27	154.0899383	91.11616398	0.591318064	-0.757994
ITGB8	533.8115719	315.5730557	0.591169379	-0.758357
NIPAL2	379.7216336	224.4568918	0.591109044	-0.758504
GAN	257.5503254	152.2306642	0.591071527	-0.758595
CEP295	1534.295528	906.7169489	0.590966298	-0.758852
RAB2A	1472.659553	870.0482487	0.590800669	-0.759257
PLEK	103.4603871	61.11450023	0.590704345	-0.759492
PNN	1254.732355	741.1522119	0.590685503	-0.759538
H2BC4	1858.985041	1097.838659	0.590558092	-0.759849
DCP2	408.3383364	241.1244827	0.590501702	-0.759987
ZNF330	376.4197064	222.2345463	0.590390308	-0.760259
NTN1	156.2912231	92.22733671	0.59009927	-0.76097
KPNA2	423.7473303	250.0138646	0.590006937	-0.761196
RABL2B	182.7066411	107.7837549	0.589927954	-0.761389
NPHP3	111.164884	65.55919115	0.589747308	-0.761831
IRF1-AS1	248.7451861	146.6748005	0.589658851	-0.762048
ZNF860	124.372593	73.33740027	0.589658851	-0.762048
CWC22	1076.428283	634.4796297	0.589430471	-0.762606
C1orf52	190.411138	112.2284459	0.589400636	-0.762679
TET2	3770.800918	2222.345463	0.589356349	-0.762788
ZNF793	343.4004339	202.2334371	0.588914332	-0.76387
OR51T1	52.83083598	31.11283648	0.588914332	-0.76387
XPOTP1	26.41541799	15.55641824	0.588914332	-0.76387
NPTX2	13.207709	7.77820912	0.588914332	-0.76387
KHDC1	13.207709	7.77820912	0.588914332	-0.76387
NRSN2-AS1	13.207709	7.77820912	0.588914332	-0.76387
SLC4A1APP1	13.207709	7.77820912	0.588914332	-0.76387
TCEANC	70.53525534	51.11394565	1.379961074	0.464628
MRPL40	160.9863475	116.6731368	1.379806457	0.464466
SAMD8	1166.736106	845.6024486	1.379769072	0.464427
ZNF16	401.6360421	291.1272556	1.379589284	0.464239
CFAP300	110.3669289	80.00443666	1.379510106	0.464156
HROB	130.2827657	94.44968217	1.37938808	0.464028
CMTM6	781.6965944	566.698093	1.37938808	0.464028
MACO1	1371.70326	994.4995946	1.379289913	0.463926
ZNF8-DT	19.9158368	14.44524551	1.378712241	0.463321
PHLPP1	407.4448279	295.5719466	1.378496277	0.463095
NPTXR	108.7072759	78.89326393	1.377903137	0.462474
CXXC5	197.4987149	143.3412824	1.3778216	0.462389
SETDB1	1114.457034	808.9337485	1.377686413	0.462248
TRIM7	48.95976547	35.55752741	1.376917042	0.461442
TLR7	48.95976547	35.55752741	1.376917042	0.461442
LEPROT	478.8099098	347.7970649	1.376693359	0.461207
MSL1	1077.944667	783.3767757	1.376023263	0.460505
GNB5	426.5308382	310.0171921	1.375829628	0.460302
EEF1AKMT3	29.04392867	21.1122819	1.375688749	0.460154
CIART	29.04392867	21.1122819	1.375688749	0.460154
STX6	377.5710727	274.4596647	1.375688749	0.460154
NARS2	512.0029711	372.242865	1.37545409	0.459908
RPS2P46	125.3038065	91.11616398	1.375209415	0.459651
NUDT14	414.0834401	301.1278102	1.375108595	0.459546
SH3KBP1	921.107452	670.0371571	1.374711003	0.459128
RPS21	1293.699566	941.1633035	1.374575019	0.458986
XIAP	1130.223738	822.2678213	1.37452021	0.458928
GIMAP6	38.17202053	27.77931829	1.374116533	0.458504
ACVR2B	323.632348	235.5686191	1.373834721	0.458208
ZFAND5	1589.117811	1156.730813	1.373800882	0.458173
HNRNPA0	1189.141422	865.6035578	1.373771413	0.458142
CLPX	874.6371662	636.7019751	1.373699471	0.458066
ELOF1	209.1162864	152.2306642	1.373680444	0.458046
LCLAT1	794.973819	578.9209931	1.373199156	0.457541
STOML2	617.3909408	450.0249562	1.371903785	0.456179
SELENOW	531.9188079	387.7992833	1.371634324	0.455896
SRRM1	3474.483695	2533.473828	1.371430665	0.455682
CYB5R2	83.81247987	61.11450023	1.371400888	0.45565
SCAF8	3725.091308	2716.817328	1.371123214	0.455358
DGUOK	472.1712975	344.4635467	1.370743877	0.454959
ZBTB43	452.2554607	330.0183012	1.370395093	0.454592
CECR2	941.0232888	686.704748	1.370346268	0.45454
CDK13	1207.397606	881.159976	1.370236551	0.454425
FNDC3B	3833.798584	2800.155283	1.36913785	0.453268
MPEG1	219.0742048	160.0088733	1.36913785	0.453268
PARP16	54.7685512	40.00221833	1.36913785	0.453268
DIPK2A	502.0450527	366.6870014	1.36913785	0.453268
MYOM1	246.4584804	180.0099825	1.36913785	0.453268
GALNT5	18.25618373	13.33407278	1.36913785	0.453268
ANG	18.25618373	13.33407278	1.36913785	0.453268
RHBDL2	9.128091867	6.667036389	1.36913785	0.453268
FOXH1	9.128091867	6.667036389	1.36913785	0.453268
PROK2	9.128091867	6.667036389	1.36913785	0.453268
GPD1	9.128091867	6.667036389	1.36913785	0.453268
NINJ2	9.128091867	6.667036389	1.36913785	0.453268
FOSL1	9.128091867	6.667036389	1.36913785	0.453268
LCN15	9.128091867	6.667036389	1.36913785	0.453268
CLN3	9.128091867	6.667036389	1.36913785	0.453268
LINGO4	9.128091867	6.667036389	1.36913785	0.453268
NUFIP1P1	9.128091867	6.667036389	1.36913785	0.453268
LINC01341	9.128091867	6.667036389	1.36913785	0.453268
ST13P4	9.128091867	6.667036389	1.36913785	0.453268
TCP10L	9.128091867	6.667036389	1.36913785	0.453268
ENSG000002	9.128091867	6.667036389	1.36913785	0.453268
FAM86EP	9.128091867	6.667036389	1.36913785	0.453268
TAF1B	445.6168484	325.5736103	1.368713048	0.45282
ERO1B	663.0314002	484.4713109	1.3685669	0.452666
ADCY2	553.4942978	404.4668742	1.368453965	0.452547
RNF111	786.6755536	575.5874749	1.366735011	0.450734
LATS1	2958.331591	2164.564481	1.366709847	0.450707
ZNF470	384.2096849	281.1267011	1.366678026	0.450673
ZNF148	2676.19057	1958.997526	1.366102068	0.450065
COMMD7	62.23699	45.55808199	1.366102068	0.450065
TP53	3554.147042	2602.366537	1.365736529	0.449679
HTR1D	53.10889814	38.8910456	1.365581648	0.449516
XPO7	2090.333038	1531.196024	1.365163575	0.449074
SPATS2L	1119.435994	820.0454758	1.36509014	0.448996
MPZL1	844.763411	618.9232114	1.364892115	0.448787
C1QTNF3	43.98080627	32.22400921	1.364845882	0.448738
TASP1	447.2765015	327.7959558	1.364496705	0.448369
PPIL3	533.578461	391.1328015	1.364187455	0.448042
PPP1R12A	3487.76092	2556.808455	1.364107238	0.447957
PRPF38A	497.0660935	364.4646559	1.363825231	0.447659
COPS8P2	34.8527144	25.55697282	1.363726238	0.447554
CCDC117	243.9690008	178.8988098	1.363726238	0.447554
ESYT2	1346.808464	987.8325582	1.363397524	0.447206
NREP	190.8601027	140.0077642	1.363210846	0.447009
COL22A1	251.4374396	184.4546734	1.363139437	0.446933
R3HCC1L	312.0147765	228.9015827	1.363095759	0.446887
HAS2	51.44924507	37.77987287	1.361816257	0.445532
CLDN8	25.72462253	18.88993643	1.361816257	0.445532
ARID1A	6942.328778	5098.060492	1.361758808	0.445471
UBAP2L	4471.935188	3285.737767	1.361014027	0.444682
WDR3	1055.53935	775.5985665	1.360935149	0.444598
ATP8B3	68.04577574	50.00277291	1.360840045	0.444498
ARPC5	1458.835046	1072.281686	1.360496094	0.444133
AGO3	1212.376565	891.1605306	1.360446882	0.444081
ABHD2	921.9372786	677.8153662	1.360159897	0.443776
TRIP4	235.6707355	173.3429461	1.359563459	0.443143
ILRUN	1462.154352	1075.615204	1.359365641	0.442934
TTLL3	243.1391743	178.8988098	1.359087713	0.442639
NBPF2P	33.01927249	36.51236747	1.10578958	0.145077
POC1B-AS1	16.50963624	18.25618373	1.10578958	0.145077
RASL10B	16.50963624	18.25618373	1.10578958	0.145077
FRG1DP	16.50963624	18.25618373	1.10578958	0.145077
ZNF557	321.3875856	355.1657563	1.105101044	0.144178
ALDH1B1	224.5310529	248.1181335	1.105050416	0.144112
ADSS1	127.6745203	141.0705107	1.104922974	0.143946
ABHD6	94.6552478	104.5581432	1.10462067	0.143551
ZNF397	425.9486151	470.5116444	1.10462067	0.143551
CD274	47.3276239	52.2790716	1.10462067	0.143551
TRPT1	125.4732355	138.5810311	1.104466866	0.14335
LONRF3	125.4732355	138.5810311	1.104466866	0.14335
LOX	203.618847	224.8829905	1.104431116	0.143303
ZNF778	201.4175622	222.3935109	1.104141608	0.142925
POLR2C	246.5439013	272.1831029	1.103994467	0.142733
PEX26	123.2719506	136.0915515	1.103994467	0.142733
CDS2	844.1927333	931.895197	1.103889148	0.142595
CERS4	1172.184173	1293.699566	1.103665785	0.142303
BCL9	1732.411163	1911.920333	1.10361811	0.142241
UBAP2	2335.563207	2577.441213	1.103563031	0.142169
CCDC88B	121.0706658	133.6020719	1.103504891	0.142093
GLS2	45.12633907	49.789592	1.103337719	0.141874
ENSG000002	45.12633907	49.789592	1.103337719	0.141874
ECHDC1	565.730202	624.0295531	1.103051509	0.1415
RNF187	88.0513933	97.0897044	1.102648133	0.140972
ISG20L2	716.518213	789.9948598	1.102546796	0.14084
TIMM9	173.9015018	191.6899292	1.102290246	0.140504
RAPGEF2	1839.173478	2027.266221	1.102270257	0.140478
WASH9P	28.61670282	31.53340827	1.101923183	0.140024
FAN1	14.30835141	15.76670413	1.101923183	0.140024
TMEM240	14.30835141	15.76670413	1.101923183	0.140024
ENSG000002	14.30835141	15.76670413	1.101923183	0.140024
RPL5P4	14.30835141	15.76670413	1.101923183	0.140024
PDXP	14.30835141	15.76670413	1.101923183	0.140024
MAGI1-IT1	14.30835141	15.76670413	1.101923183	0.140024
SRCIN1	14.30835141	15.76670413	1.101923183	0.140024
SRSF4	1559.610304	1718.570751	1.101923183	0.140024
CEBPZOS	298.2740948	328.6113072	1.101709176	0.139743
WAPL	2021.880119	2227.254416	1.101575902	0.139569
IFT80	83.64882364	92.1107452	1.101160078	0.139024
SSR1	1627.850134	1792.425312	1.101099711	0.138945
KLF6	471.0749542	518.6415834	1.100974651	0.138781
ECHDC3	95.75589022	105.3879697	1.100589943	0.138277
ABCC10	232.2355498	255.5865723	1.100548871	0.138223
SMG1P2	40.7237694	44.8106328	1.100355725	0.13797
STARD10	620.7623228	682.947237	1.100175078	0.137733
CLCC1	1338.381178	1472.11227	1.099920033	0.137399
TRIAP1	93.55460539	102.8984901	1.099876267	0.137341
RNF38	1336.179893	1469.622791	1.099868961	0.137332
INTS5	252.0471133	277.1620621	1.099643866	0.137036
ZNF865	304.8779493	335.2499195	1.099620095	0.137005
ZCCHC17	316.9850159	348.527144	1.099506685	0.136856
WBP4	184.9079259	203.3075007	1.099506685	0.136856
RRS1	184.9079259	203.3075007	1.099506685	0.136856
KCNIP2	26.41541799	29.04392867	1.099506685	0.136856
HIF1AN	487.5845904	536.0679406	1.099435772	0.136763
PDE4D	1023.597447	1125.244779	1.099304011	0.13659
ZBTB11	1611.340497	1770.849822	1.098991694	0.13618
ARAP3	180.5053563	198.3285415	1.098740478	0.135851
RPP30	192.6124229	211.605766	1.098609129	0.135678
LRRC4B	38.52248457	42.3211532	1.098609129	0.135678
DPM3	89.15203572	97.91953094	1.098343186	0.135329
RPL6	4031.653171	4427.954382	1.098297446	0.135269
CYLD	819.9786001	900.3617887	1.098030837	0.134919
TAF4	238.8394043	262.2251845	1.097914246	0.134765
TTC28-AS1	62.73661773	68.87560227	1.097853291	0.134685
CLTB	198.1156349	217.4145517	1.097412387	0.134106
ENTR1	210.2227015	230.6917763	1.097368527	0.134048
EIF3J	135.3790172	148.5389495	1.097208065	0.133837
COX20	563.5289171	618.2207674	1.097052429	0.133632
VRK2	403.9357668	443.1273688	1.097024342	0.133596
TMEM131L	994.9807443	1091.221891	1.096726643	0.133204
TMX2	714.3169282	783.3562475	1.096650823	0.133104
KLHL17	36.32119974	39.8316736	1.096650823	0.133104
SVIL2P	36.32119974	39.8316736	1.096650823	0.133104
PCDHGA8	36.32119974	39.8316736	1.096650823	0.133104
H4C12	24.21413316	26.55444907	1.096650823	0.133104
ZNF534	12.10706658	13.27722453	1.096650823	0.133104
OXCT2	12.10706658	13.27722453	1.096650823	0.133104
EIF5AP4	12.10706658	13.27722453	1.096650823	0.133104
PDCD6IP-DT	12.10706658	13.27722453	1.096650823	0.133104
FAM238C	12.10706658	13.27722453	1.096650823	0.133104
UQCC5	106.7623144	117.0055412	1.095944219	0.132174
GPALPP1	296.07281	324.4621745	1.095886429	0.132098
RIC8A	271.8586768	297.9077255	1.095818346	0.132009
VCPKMT	82.54818122	90.45109214	1.095736948	0.131901
RAB10	1316.36833	1442.238515	1.095619275	0.131747
MCOLN1	140.8822293	154.3477352	1.095579875	0.131695
HNRNPA1P7	70.44111464	77.1738676	1.095579875	0.131695
DYNC1LI2	1326.274112	1453.02626	1.095570099	0.131682
NELFCD	782.556758	857.210809	1.095397618	0.131455
HDDC3	46.22698148	50.61941854	1.095018903	0.130956
GSS	450.1627483	492.9169608	1.094975012	0.130898
EYA3	1042.308368	1141.011483	1.094696654	0.130531
PCAT7	34.11991491	37.342194	1.094439834	0.130193
ING4	290.5695979	317.8235623	1.093794962	0.129342
TTLL3	222.3297681	243.1391743	1.093597031	0.129081
CRYZ	398.4325547	435.65893	1.093432062	0.128864
RPAP1	232.2355498	253.9269192	1.09340245	0.128825
ABHD17C	88.0513933	96.25987787	1.09322379	0.128589
PLEKHG6	110.0642416	120.3248473	1.09322379	0.128589

CCDC144NL	13.207709	7.77820912	0.588914332	-0.76387
LINC01376	13.207709	7.77820912	0.588914332	-0.76387
ENSG000002	13.207709	7.77820912	0.588914332	-0.76387
ZNF542P	13.207709	7.77820912	0.588914332	-0.76387
IGFBP5	6875.713175	4046.891088	0.588577648	-0.764695
IRAG2	126.5738779	74.44857301	0.588182761	-0.765664
GPBP1	872.8094361	513.3618019	0.588171691	-0.765691
RANBP2	17707.13519	10413.91084	0.588119463	-0.765819
STK38L	574.5353413	337.7965104	0.587947313	-0.766241
MS4A7	334.5952946	196.6775735	0.58780735	-0.766585
TENT4B	455.6659603	267.7926283	0.587695048	-0.76686
ODAD4	73.74304189	43.33573653	0.587658651	-0.76695
RCAN2	281.7644586	165.564737	0.587599791	-0.767094
DRG1	402.8351244	236.6797918	0.587535142	-0.767253
RBL1	315.8843735	185.5658462	0.587448642	-0.767465
MTAP	181.6059987	106.6725822	0.587384684	-0.767622
EIF3D	1755.524654	1031.168295	0.587384684	-0.767622
SAP30L	155.1905807	91.11616398	0.587124319	-0.768262
SET	1637.755915	961.1644127	0.586878914	-0.768865
TMEM11	257.5503254	151.1194915	0.586757137	-0.769165
TIGD2	210.2227015	123.3401732	0.58671196	-0.769276
RAB5A	1050.012865	615.5896932	0.586268715	-0.770366
GMCL1	409.4389789	240.01331	0.586200441	-0.770534
SCO2	68.23982981	40.00221833	0.586200441	-0.770534
TLK2	862.9036544	505.5835928	0.585909667	-0.77125
AHCTF1	3059.785917	1792.321616	0.585766999	-0.771601
MACF1	19591.43501	11473.96962	0.585662542	-0.771858
CLK3	783.6574004	458.9143381	0.585605824	-0.771998
SLC27A2	110.0642416	64.44801842	0.585549107	-0.772138
FER1L5	110.0642416	64.44801842	0.585549107	-0.772138
CD7	55.03212081	32.22400921	0.585549107	-0.772138
DOP1A	1178.788028	690.0382662	0.585379432	-0.772556
RUNX2	261.9528951	153.3418369	0.585379432	-0.772556
RHOBTB3	654.8822377	383.3545923	0.585379432	-0.772556
RAP1A	455.6659603	266.6814555	0.585256479	-0.772859
HOXA1	75.94432672	44.44690926	0.585256479	-0.772859
TRIM21	248.7451861	145.5636278	0.585191738	-0.773019
UBE2J1	837.5888788	490.0271746	0.585044987	-0.773381
STK33	117.7687385	68.89270935	0.584982995	-0.773533
RPGR	748.4368431	437.8020562	0.584955244	-0.773602
WDR41	465.5717421	272.2373192	0.584737635	-0.774139
DCP1A	695.6060071	406.6892197	0.584654554	-0.774344
JMY	862.9036544	504.4724201	0.584621953	-0.774424
CD101	62.73661773	36.66870014	0.584486405	-0.774759
RPP25	41.82441182	24.44580009	0.584486405	-0.774759
ZCWPW2	20.91220591	12.22290005	0.584486405	-0.774759
ENSG000002	20.91220591	12.22290005	0.584486405	-0.774759
CCDC82	718.7194978	420.0232925	0.584405034	-0.774959
ZNF280C	467.7730269	273.3484919	0.584361381	-0.775067
NAT10	893.721642	522.2511838	0.58435553	-0.775082
PLVAP	266.3554647	155.5641824	0.584047271	-0.775843
BLOC1S2	112.2655265	65.55919115	0.583965472	-0.776045
SRBD1	1018.094235	594.4774113	0.583911971	-0.776177
MYCBP2	6554.325589	3826.878887	0.583870733	-0.776279
SLC16A9	310.3811614	181.1211552	0.583544292	-0.777086
CHSY1	1298.758051	757.8198028	0.58349575	-0.777206
SPI1	338.9978642	197.7887462	0.583451305	-0.777316
ZNF587B	975.1691808	568.9204385	0.58340691	-0.777426
MAGED1	4343.134975	2533.473828	0.583328366	-0.77762
SH3BP1	49.52890873	28.89049102	0.583305624	-0.777676
NFIA	3998.633898	2332.351563	0.583287098	-0.777722
ZNF654	779.2548307	454.4696472	0.583210561	-0.777911
FAF2	1034.603871	603.3667932	0.58318629	-0.777971
ANKRD17	12003.60619	6998.165863	0.583005286	-0.778419
RASSF5	156.2912231	91.11616398	0.582989641	-0.778458
FNBP1L	2218.895111	1293.405059	0.582905002	-0.778667
CERK	533.8115719	311.1283648	0.58284305	-0.778821
VAMP2	242.1413316	141.1189369	0.582795742	-0.778938
TERF2IP	655.9828801	382.2434196	0.582703347	-0.779166
EBP	57.23340565	33.33518194	0.582442746	-0.779812
CYP24A1	28.61670282	16.66759097	0.582442746	-0.779812
LIMD2	28.61670282	16.66759097	0.582442746	-0.779812
INTS14	580.0385534	337.7965104	0.582369066	-0.779994
PBRM1	3646.428325	2123.45109	0.582337263	-0.780073
RIPK2	410.5396213	238.9021373	0.581922243	-0.781102
LGALS9	158.4925079	92.22733671	0.581903447	-0.781148
LSM1	418.2441182	243.3468282	0.581829648	-0.781331
ATXN3	807.8715336	470.0260654	0.581807931	-0.781385
THOC2	2973.935809	1730.095943	0.581752954	-0.781521
PPP4R3A	2802.235592	1630.090397	0.581710689	-0.781626
PEBP4	101.2591023	58.89215477	0.581598626	-0.781904
TCF7L2	2126.441148	1236.73525	0.581598626	-0.781904
GPATCH2	1557.409019	905.6057761	0.581482299	-0.782193
ZNF230	145.284799	84.44912759	0.581266094	-0.782729
PTENP1	36.32119974	21.1122819	0.581266094	-0.782729
LAMTOR3	334.5952946	194.455228	0.581165459	-0.782979
GABPB1	277.3618889	161.1200461	0.580901892	-0.783634
ADGRF5	321.3875856	186.6770189	0.580847012	-0.78377
GNAL	204.7194894	118.8954823	0.580772659	-0.783955
DYNC2I1	702.2098616	407.8003924	0.580738629	-0.784039
ENSG000001	124.372593	72.22622754	0.580724626	-0.784074
ABHD11	302.6766645	175.5652916	0.580042376	-0.78577
ELAC1	51.73019357	30.00166375	0.579964266	-0.785964
RBFOX2	348.903646	202.2334371	0.579625462	-0.786807
CAV2	126.5738779	73.33740027	0.579403914	-0.787359
RRP1B	469.9743118	272.2373192	0.579259999	-0.787717
NUS1	134.2783748	77.7820912	0.579259999	-0.787717
LATS2	675.7944436	391.1328015	0.578774811	-0.788926
ICE2	1194.197022	691.149439	0.578756626	-0.788971
POLR3F	278.4625313	161.1200461	0.578605837	-0.789347
UBE2N	873.9100785	505.5835928	0.578530452	-0.789535
YPEL2	92.1107452	67.78153662	1.358935631	0.442477
KSR2	893.7231764	657.814257	1.358625428	0.442148
FAM162A	976.7058298	718.9287572	1.358557187	0.442075
ATXN2	3836.288064	2824.601083	1.358169862	0.441664
MSH3	872.1476866	642.2578388	1.35794012	0.44142
KLHL9	1126.904432	830.0460304	1.357640891	0.441102
GSTM3	346.8674909	255.5697282	1.357232303	0.440668
RAB2B	841.4441048	620.0343841	1.357092649	0.440519
RAB1A	1135.202698	836.7130668	1.356740731	0.440145
ENSG000002	271.3532764	200.0110917	1.356691142	0.440092
SLC25A6	90.45109214	66.67036389	1.356691142	0.440092
TUSC3	2872.859459	2117.895226	1.356469113	0.439856
COG2	682.1174104	503.3612473	1.355125	0.438426
DECR1	478.8099098	353.3529286	1.355047237	0.438343
GCFC2	380.8903788	281.1267011	1.354870873	0.438155
DNAI7	242.3093477	178.8988098	1.354449189	0.437706
PRUNE1	475.4906036	351.1305831	1.35417029	0.437409
CCZ1	233.1812559	172.2317734	1.353880595	0.437101
MORF4L2	1976.646802	1460.080969	1.353792594	0.437007
CD84	96.25987787	71.11505481	1.353579465	0.43678
ABHD17C	96.25987787	71.11505481	1.353579465	0.43678
VAMP1	120.3248473	88.89381852	1.353579465	0.43678
DHRS2	24.06496947	17.7787637	1.353579465	0.43678
MEP1B	24.06496947	17.7787637	1.353579465	0.43678
KLRG2	24.06496947	17.7787637	1.353579465	0.43678
RPEL1	24.06496947	17.7787637	1.353579465	0.43678
PFDN1	151.8582556	112.2284459	1.353117335	0.436287
WDR47	726.0982167	536.6964293	1.352903014	0.436058
GANAB	5582.24309	4126.895525	1.352649481	0.435788
ZSCAN32	302.0568581	223.345719	1.352418392	0.435542
PICALM	2796.515417	2067.892453	1.352350512	0.435469
FAM153CP	55.59837774	41.11339106	1.352317975	0.435434
TYROBP	261.395358	193.3440553	1.351969977	0.435063
MORC1	87.131786	64.44801842	1.351969977	0.435063
SRPX2	150.1986025	111.1172731	1.351712459	0.434788
FOXG1	126.1336331	93.33850944	1.351356839	0.434409
WDR44	866.3389008	641.146666	1.351233574	0.434277
DDX42	2601.506182	1925.662344	1.35096695	0.433992
ACOT2	282.1410213	208.9004735	1.3506002	0.433601
USP33	1886.19571	1396.744123	1.35042323	0.433412
BZW1	1461.324525	1082.28224	1.350224988	0.4332
TMEM204	39.00184707	28.89049102	1.349989069	0.432948
MEMO1P1	39.00184707	28.89049102	1.349989069	0.432948
TRIR	731.9070024	542.2522929	1.349753633	0.432696
ZNF776	497.89592	368.9093468	1.349643007	0.432578
IPO5	2669.551958	1978.998635	1.348940778	0.431827
TRAPPC2L	208.2864599	154.4530097	1.348542578	0.431401
ACSL4	915.2986663	678.9265389	1.348155675	0.430987
RFC1	2242.191293	1663.425579	1.347936043	0.430752
MORC3	1119.435994	831.1572031	1.346840272	0.429579
EPPK1	1321.083841	981.1655219	1.3464434	0.429154
UBQLN1	3180.725102	2362.353227	1.346422316	0.429131
UPF2	1726.039189	1282.293332	1.346056434	0.428739
RBM33	1345.978637	1000.055458	1.345903996	0.428576
MRPS30	339.3990521	252.23621	1.345560386	0.428207
BCL7A	180.9021843	134.4519005	1.345478819	0.42812
ZNF808	1423.982331	1058.947613	1.344714614	0.4273
SRI	455.5747668	338.9076831	1.344244435	0.426795
CDKL3	22.4053164	16.66759097	1.344244435	0.426795
F2RL2	22.4053164	16.66759097	1.344244435	0.426795
HTR3A	22.4053164	16.66759097	1.344244435	0.426795
ZNF22-AS1	14.9368776	11.11172731	1.344244435	0.426795
LRRIQ4	14.9368776	11.11172731	1.344244435	0.426795
SPINT1-AS1	14.9368776	11.11172731	1.344244435	0.426795
PTGIR	7.4684388	5.555863657	1.344244435	0.426795
DIRAS3	7.4684388	5.555863657	1.344244435	0.426795
WASH8P	7.4684388	5.555863657	1.344244435	0.426795
SLC25A53P1	7.4684388	5.555863657	1.344244435	0.426795
B4GAT1-DT	7.4684388	5.555863657	1.344244435	0.426795
SENP3-EIF4A	7.4684388	5.555863657	1.344244435	0.426795
LHFPL2	171.7740924	127.7848641	1.344244435	0.426795
MOB1A	976.7058298	726.7069664	1.344016055	0.42655
MOSPD2	401.6360421	298.9054648	1.343689191	0.426199
ZNF438	364.2938481	271.1261465	1.343632301	0.426138
C1orf43	1388.29979	1033.39064	1.343441421	0.425933
DNAJC3	816.5493088	607.8114841	1.343425273	0.425916
TSC22D1	2438.860182	1815.656243	1.343238948	0.425716
ESRRA	162.6460005	121.1178277	1.342874155	0.425324
TSPAN3	1456.345566	1084.504586	1.342867135	0.425317
KDM2B	897.8723091	668.9259843	1.342259578	0.424664
DLG4	366.7833277	273.3484919	1.341815809	0.424187
TBC1D23	825.6774007	615.5896932	1.341278793	0.423609
MTM1	320.3130419	238.9021373	1.340770935	0.423063
C17orf58	123.6441535	92.22733671	1.340645387	0.422928
MDH1	726.9280432	542.2522929	1.340571636	0.422848
DIPK2B	50.61941854	37.77987287	1.339851479	0.422073
COL4A4	288.7796336	215.5675099	1.339625038	0.421829
SLC26A7	187.5407965	140.0077642	1.339502832	0.421698
WDR20	677.9682778	506.6947655	1.338021081	0.420101
TFAP4	392.5079503	293.3496011	1.338021081	0.420101
LARP7	383.3798584	286.6825647	1.3372974	0.41932
KBTBD6	319.4832153	238.9021373	1.3372974	0.41932
EIF4A2	4751.58673	3553.530395	1.337145374	0.419156
ZNF627	438.1484096	327.7959558	1.336649833	0.418622
RPL15	2521.842835	1886.771298	1.336591688	0.418559
SLC43A3	28.21410213	21.1122819	1.336383356	0.418334
SP6	28.21410213	21.1122819	1.336383356	0.418334
BCL2L1	613.2418082	458.9143381	1.336288186	0.418231
PWP1	794.1439924	594.4774113	1.33586908	0.417779
NUP153	3495.229359	2616.811783	1.335682368	0.417577
DARS1	860.5301151	644.4801842	1.335231301	0.41709
HINT3	110.0642416	120.3248473	1.09322379	0.128589
TMEM121	22.01284833	24.06496947	1.09322379	0.128589
XPO6	1798.449708	1965.859058	1.093085366	0.128406
TRMT10A	208.0214167	227.3724701	1.093024333	0.128326
ABHD15	97.95717505	107.0476228	1.092800224	0.12803
RIT1	249.8458285	273.0129295	1.092725586	0.127931
NBPF20	301.5760221	329.4411337	1.0923983	0.127499
C1orf109	203.618847	222.3935109	1.092204942	0.127244
GFOD1	149.6873686	163.4758271	1.092115043	0.127125
HSD3B7	31.91863007	34.8527144	1.09192388	0.126872
AHI1	2600.81803	2839.666397	1.091835863	0.126756
GNB4	137.580302	150.1986025	1.091715895	0.126597
TRIM33	3990.929401	4356.5893	1.091622743	0.126474
RPS15	2074.710955	2264.59661	1.091523908	0.126344
USP43	263.0535375	287.1199805	1.091488764	0.126297
ZNF384	1266.839421	1382.491005	1.091291431	0.126036
ENSG000002	41.82441182	45.64045934	1.091239717	0.125968
PRKAR1B	61.63597531	67.2159492	1.09053112	0.125031
MR1	184.9079259	201.6478476	1.09053112	0.125031
XYLB	214.6252712	234.0110824	1.090323992	0.124757
MAGI2-AS3	81.44753881	88.79143907	1.090167246	0.124549
PIGQ	254.2483982	277.1620621	1.09012314	0.124491
ZSCAN18	202.5182046	220.7338579	1.089945757	0.124256
TMEM50A	968.5653263	1055.53935	1.089796756	0.124059
CADM1	1884.299817	2052.990844	1.089524515	0.123699
ODAD2	269.657392	293.7585928	1.089377119	0.123503
CENPB	618.561038	673.8191451	1.089333314	0.123445
IL20RB	19.81156349	21.57548987	1.089035193	0.123051
TMEM11-DT	19.81156349	21.57548987	1.089035193	0.123051
SIT1	9.905781747	10.78774493	1.089035193	0.123051
DICER1-AS1	9.905781747	10.78774493	1.089035193	0.123051
TTC4	9.905781747	10.78774493	1.089035193	0.123051
MILIP	9.905781747	10.78774493	1.089035193	0.123051
ENSG000002	9.905781747	10.78774493	1.089035193	0.123051
ENSG000002	9.905781747	10.78774493	1.089035193	0.123051
ENSG000002	9.905781747	10.78774493	1.089035193	0.123051
MAP7D3	198.1156349	215.7548987	1.089035193	0.123051
CHIC2	118.869381	129.4529392	1.089035193	0.123051
MAP3K1	919.0364176	1000.770799	1.088934867	0.122918
NDC1	543.7173537	591.6663183	1.088187299	0.121927
MIER1	1018.094235	1107.818422	1.08812955	0.12185
RECQL5	280.6638162	305.3761643	1.088049641	0.121744
ACTR5	260.8522527	283.8006744	1.087974788	0.121645
GAREM1	598.7494745	651.4138287	1.087957245	0.121622
MTMR1	501.8929418	546.025859	1.08793293	0.12159
RAB9A	288.3683131	313.6744296	1.087756232	0.121355
ZNF304	211.3233439	229.8619497	1.087726256	0.121316
ZFHX4	679.0963709	738.5456147	1.08754169	0.121071
SEC63	2523.773061	2744.236346	1.087354639	0.120823
RANGAP1	455.6659603	495.4064404	1.087214064	0.120636
WDR27	425.9486151	463.0432056	1.087087008	0.120467
SEPTIN2	4011.841607	4360.738433	1.08696675	0.120308
EIF2B4	528.3083598	574.2399611	1.086940894	0.120273
SSBP4	169.4989321	184.2214904	1.086859298	0.120165
RPS3AP6	37.42184215	40.66150013	1.086571312	0.119783
ZMYND11	2455.533231	2667.892305	1.086481857	0.119664
CEP162	466.6723845	507.0240119	1.086466714	0.119644
TCEANC	64.93790256	70.53525534	1.086195466	0.119284
PRDM5	454.5653179	493.7467874	1.086195466	0.119284
BCL6	1294.355482	1405.726148	1.086043338	0.119082
U2AF1	212.4239863	230.6917763	1.085996832	0.11902
RSRC2	1812.75806	1968.348537	1.085830802	0.118799
NFYB	615.2591107	668.0103594	1.085738265	0.118676
ARF3	127.6745203	138.5810311	1.085424333	0.118259
AFG1L	72.64239948	78.83352067	1.085227377	0.117997
PBDC1	263.0535375	285.4603275	1.085179581	0.117934
DHCR7	474.3768814	514.4924507	1.084564765	0.117116
AKAP11	2299.242008	2493.628733	1.08454383	0.117088
ARID3A	97.95717505	106.2177963	1.084328904	0.116802
ACP2	477.6788087	517.8117568	1.084016597	0.116387
DSC2	1620.145637	1755.912945	1.083799447	0.116098
FAM227B	17.61027866	19.08601027	1.083799447	0.116098
ENSG000002	17.61027866	19.08601027	1.083799447	0.116098
CD302	52.83083598	57.2580308	1.083799447	0.116098
ASCC3	1819.361914	1971.667843	1.083713926	0.115984
SCLT1	289.4689555	313.6744296	1.083620277	0.115859
MDH1B	183.8072835	199.158368	1.083517281	0.115722
EMC7	463.3704573	502.0450527	1.083463662	0.115651
FEZ2	496.3897298	537.7275936	1.083277033	0.115402
GOLPH3	2068.1071	2239.701814	1.08297187	0.114996
SMARCD1	544.8179961	590.0066652	1.082942688	0.114957
COQ4	206.9207743	224.053164	1.082796857	0.114763
PTGR3	456.7666028	494.5766139	1.08277753	0.114737
PPCDC	42.92505424	46.47028587	1.082591198	0.114489
GALNT6	42.92505424	46.47028587	1.082591198	0.114489
PDS5A	4609.490439	4988.087292	1.082134209	0.113879
REEP3	457.8672452	495.4064404	1.081987073	0.113683
MED29	253.1477557	273.842756	1.081750676	0.113368
CYP46A1	25.31477557	27.3842756	1.081750676	0.113368
REXO1	496.3897298	536.8977671	1.081605309	0.113174
CIAO3	184.9079259	199.9881945	1.081555555	0.113108
ALG3	377.5203488	408.2746544	1.081463968	0.112986
NSMCE1	359.9100701	389.1886441	1.081349694	0.112833
MPZL3	83.64882364	90.45109214	1.081319356	0.112793
ATP6V0A1	1218.411155	1316.934708	1.080862321	0.112183
TGFBRAP1	279.5631737	302.0568581	1.080460112	0.111646
TBC1D24	139.7815869	151.0284291	1.080460112	0.111646
BTF3L4	246.5439013	266.3743172	1.08043361	0.11161
GCLC	877.2120058	947.6619011	1.080311139	0.111447
ATP5F1D	155.1905807	167.6249597	1.080123284	0.111196
C5orf63	81.44753881	87.96161254	1.079978767	0.111003

PHAF1	340.0985066	196.6775735	0.578295904	-0.79012
ZNF280D	401.7344819	232.2351009	0.578081074	-0.790656
SYNC	136.4796596	78.89326393	0.578058768	-0.790712
ZBTB18	1009.289096	583.365684	0.577996618	-0.790867
RAB9A	288.3683131	166.6759097	0.577996618	-0.790867
SEC62	1969.049283	1137.840877	0.577863077	-0.7912
SLA	167.2976473	96.67202764	0.577844514	-0.791247
ZSCAN12	190.4111138	110.0061004	0.577729336	-0.791534
ZNF595	427.0492575	246.6803464	0.577639094	-0.79176
TMEM106B	648.2783832	374.4652105	0.577630259	-0.791782
EIF2A	1581.623152	913.3839852	0.57749786	-0.792112
IRF1	282.865101	163.3423915	0.577456855	-0.792215
SUGT1	298.2740948	172.2317734	0.577427864	-0.792287
LPAR6	321.3875856	185.5658462	0.57738959	-0.792383
ARGLU1	847.4946605	488.9160018	0.576895672	-0.793618
JAK3	231.1349074	133.3407278	0.576895672	-0.793618
HTATIP2	146.3854414	84.44912759	0.576895672	-0.793618
MMP9	46.22698148	26.66814555	0.576895672	-0.793618
NKG7	23.11349074	13.33407278	0.576895672	-0.793618
GNG11	23.11349074	13.33407278	0.576895672	-0.793618
THAP7-AS1	23.11349074	13.33407278	0.576895672	-0.793618
ANXA2P2	23.11349074	13.33407278	0.576895672	-0.793618
GPR87	30.81798766	17.7787637	0.576895672	-0.793618
P2RX1	15.40899383	8.889381852	0.576895672	-0.793618
HASPIN	15.40899383	8.889381852	0.576895672	-0.793618
PIPSL	15.40899383	8.889381852	0.576895672	-0.793618
CLDN5	15.40899383	8.889381852	0.576895672	-0.793618
ENSG000002	15.40899383	8.889381852	0.576895672	-0.793618
NDUFV2P1	15.40899383	8.889381852	0.576895672	-0.793618
CHKB	7.704496914	4.444690926	0.576895672	-0.793618
OR7C1	7.704496914	4.444690926	0.576895672	-0.793618
FAM151A	7.704496914	4.444690926	0.576895672	-0.793618
FOXI1	7.704496914	4.444690926	0.576895672	-0.793618
EFCAB3	7.704496914	4.444690926	0.576895672	-0.793618
NUDT4B	7.704496914	4.444690926	0.576895672	-0.793618
FAM43B	7.704496914	4.444690926	0.576895672	-0.793618
ARC	7.704496914	4.444690926	0.576895672	-0.793618
LINC02897	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
KRT8P12	7.704496914	4.444690926	0.576895672	-0.793618
FEZF1-AS1	7.704496914	4.444690926	0.576895672	-0.793618
STMND1	7.704496914	4.444690926	0.576895672	-0.793618
ITPR1-DT	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
IGKV2D-29	7.704496914	4.444690926	0.576895672	-0.793618
RCC2P6	7.704496914	4.444690926	0.576895672	-0.793618
MIR762HG	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
FAM157C	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
SRXN1	7.704496914	4.444690926	0.576895672	-0.793618
OR1B1	7.704496914	4.444690926	0.576895672	-0.793618
ENSG000002	7.704496914	4.444690926	0.576895672	-0.793618
ATG3	849.6959454	490.0271746	0.576708854	-0.794085
HNRNPDL	3544.06858	2043.446653	0.576582142	-0.794402
ZC3H13	4639.207785	2672.370419	0.576040252	-0.795758
C12orf4	358.8094277	206.678128	0.576010863	-0.795832
DYSF	171.7002169	98.8943731	0.57597116	-0.795932
ASCC3	1819.361914	1047.835886	0.575935924	-0.79602
HNRNPH2	1132.561046	652.2583934	0.575914557	-0.796073
HOMER1	274.0599617	157.7865279	0.575737247	-0.796518
MFSD8	274.0599617	157.7865279	0.575737247	-0.796518
RAB3GAP1	1872.19275	1077.837549	0.575708644	-0.796589
RSPRY1	627.3661773	361.1311377	0.57563055	-0.796785
KCNAB2	117.7687385	67.78153662	0.575547785	-0.796992
RNF6	911.3319207	524.4735292	0.575502204	-0.797107
LRRK1	565.730202	325.5736103	0.575492716	-0.79713
DNAJC2	432.5524696	248.9026918	0.575427744	-0.797293
HERC1	7942.235676	4569.142272	0.575296737	-0.797622
ERCC8	332.3940097	191.1217098	0.574985422	-0.798403
MSL2	1741.216303	1001.166631	0.574981195	-0.798413
CIT	278.4625313	160.0088733	0.574615452	-0.799331
ELP3	543.7173537	312.2395375	0.574268111	-0.800204
HIVEP3	1538.698098	883.3823215	0.574110232	-0.8006
ATP8B1	1332.877966	764.4868392	0.573561015	-0.801981
ZNF621	614.1584683	352.2417559	0.573535617	-0.802045
RPL10P9	897.0235693	514.4729747	0.573533397	-0.802051
STRAP	1951.439004	1118.950941	0.573397856	-0.802392
ZFC3H1	3304.128534	1894.549507	0.573388562	-0.802415
CYRIA	315.8843735	181.1211552	0.573378016	-0.802442
ADAMTSL1	356.6081429	204.4557826	0.573334588	-0.802551
DCXR	1072.025713	614.4785205	0.573193826	-0.802905
MAML3	2596.41546	1487.860287	0.573043995	-0.803282
LINC02693	122.1713082	70.00388208	0.572997728	-0.803399
TGM2	4930.878025	2824.601083	0.572839374	-0.803797
RIPK4	531.6102871	304.4613284	0.572715269	-0.80411
SLC25A40	294.9721676	168.8982552	0.572590481	-0.804424
DNAJC25	147.4860838	84.44912759	0.572590481	-0.804424
ANAPC15	147.4860838	84.44912759	0.572590481	-0.804424
ZNF451	1838.072835	1052.280577	0.572491229	-0.804675
TBC1D8B	797.9657518	456.6919926	0.572320293	-0.805105
TOPBP1	1287.751627	736.7075209	0.572088208	-0.80569
GEMIN6	66.03854498	37.77987287	0.572088208	-0.80569
CIR1	693.4047223	396.6886651	0.572088208	-0.80569
KIAA2026	6060.137144	3465.747749	0.571892627	-0.806184
AJUBA	175.0021442	100.0055458	0.57145326	-0.807293
TSPYL1	1260.235567	720.03993	0.571353443	-0.807545
SNAP29	425.9486151	243.3468282	0.571305598	-0.807665
CHCHD3	309.280519	176.6764643	0.571249896	-0.807806
RPP30	192.6124229	110.0061004	0.571126715	-0.808117
C3orf70	48.95976547	36.66870014	1.335192283	0.417048
PPP1R14C	48.95976547	36.66870014	1.335192283	0.417048
ATF6	1804.042884	1351.186041	1.335155062	0.417007
MID1	551.8346447	413.3562561	1.33500978	0.41685
S100PBP	642.2857368	481.1377927	1.334930963	0.416765
GALNT1	1067.986748	800.0443666	1.334909404	0.416742
RAP1A	355.9955828	266.6814555	1.334909404	0.416742
TCAIM	188.3706231	141.1189369	1.3348359	0.416662
ADIPOR1	1267.974943	950.0526854	1.33463645	0.416447
FER	390.0184707	292.2384284	1.334589954	0.416397
ZDHHC20	661.3717471	495.5830382	1.334532654	0.416335
JMJD6	542.7065528	406.6892197	1.334450304	0.416246
ZNF235	548.5153386	411.1339106	1.334152509	0.415924
DHX57	1114.457034	835.601894	1.333717698	0.415453
CERK	414.9132667	311.1283648	1.333575828	0.4153
APEX2	518.6415834	388.910456	1.333575828	0.4153
TMEM200C	62.23699	46.66925472	1.333575828	0.4153
OPN3	20.74566333	15.55641824	1.333575828	0.4153
RNASE2	20.74566333	15.55641824	1.333575828	0.4153
GPR142	20.74566333	15.55641824	1.333575828	0.4153
MNAT1	303.7165112	227.7904099	1.333315618	0.415018
VPS26B	282.9708479	212.2339917	1.333296545	0.414998
ZNF570	262.2251845	196.6775735	1.333274455	0.414974
PIAS2	845.5932375	634.4796297	1.332735045	0.41439
MLX	268.0339703	201.1222644	1.332691689	0.414343
HEY1	75.51421454	56.6698093	1.332529886	0.414168
OSBP	1640.567056	1231.179386	1.33251667	0.414154
PKNOX1	375.9114196	282.2378738	1.331895732	0.413481
HSPA8	9584.49646	7197.065782	1.331722781	0.413294
RPS6KC1	1500.326372	1126.72915	1.331576779	0.413136
CRKL	381.7202053	286.6825647	1.331508269	0.413061
FAM168A	1048.900738	787.8214666	1.331393955	0.412938
DNAJB6P1	102.0686636	76.67091847	1.331256566	0.412789
PANK4	34.02288787	25.55697282	1.331256566	0.412789
NRROS	34.02288787	25.55697282	1.331256566	0.412789
STEAP3	128.6231127	96.67202764	1.330510136	0.41198
RPL6	4427.954382	3329.073503	1.330086097	0.41152
CCDC14	3361.627287	2527.917964	1.329800783	0.41121
PHF10	1991.58368	1497.860842	1.32961863	0.411013
SHTN1	3672.812237	2763.486583	1.329050142	0.410396
SMG7	3152.511	2372.353782	1.328853658	0.410182
PRELID1	473.8309506	356.6864468	1.32842432	0.409716
ZNF181	373.42194	281.1267011	1.328304777	0.409586
SPPL2A	731.9070024	551.1416748	1.327983413	0.409237
EMCN	53.10889814	40.00221833	1.327648824	0.408874
CCDC62	26.55444907	20.00110917	1.327648824	0.408874
SLC38A8	26.55444907	20.00110917	1.327648824	0.408874
EID3	26.55444907	20.00110917	1.327648824	0.408874
HHATL	13.27722453	10.00055458	1.327648824	0.408874
STX1B	13.27722453	10.00055458	1.327648824	0.408874
CST1	13.27722453	10.00055458	1.327648824	0.408874
TBX19	66.38612267	50.00277291	1.327648824	0.408874
PEA15	423.211532	318.9065739	1.32707058	0.408245
PPP3CB	1216.525698	916.7175034	1.327045348	0.408218
DAG1	1810.681496	1364.520114	1.326973107	0.408139
OVOL2	125.3038065	94.44968217	1.326672612	0.407812
EID2B	112.026582	84.44912759	1.326557008	0.407687
RPL6P27	222.3935109	167.7870824	1.32545073	0.406483
ZNF440	372.5921135	281.1267011	1.325352989	0.406377
ELF1	1207.397606	911.1616398	1.325119006	0.406122
DSG2	2218.126324	1674.537306	1.324620428	0.405579
MANEA	376.7412461	284.4602192	1.324407494	0.405347
MED25	1103.669289	833.3795486	1.324329702	0.405262
CSDE1	15970.84146	12061.78	1.324086616	0.404997
GPCPD1	719.4596044	543.3634657	1.32408535	0.404996
TMPRSS15	97.0897044	73.33740027	1.323877095	0.404769
SLC16A3	129.4529392	97.78320037	1.323877095	0.404769
CASP6	310.3551235	234.4574463	1.323716215	0.404594
TRMT1L	639.7962572	483.3601382	1.323642987	0.404514
CDC16	611.5821551	462.2478563	1.323061095	0.40388
GPC6	649.7541756	491.1383473	1.322955496	0.403765
AFG3L2	1509.454464	1141.174395	1.322720235	0.403508
SNX25	644.7752164	487.8048291	1.321789326	0.402492
KLHL31	19.08601027	14.44524551	1.321265897	0.401921
GPT	19.08601027	14.44524551	1.321265897	0.401921
RPS10P7	19.08601027	14.44524551	1.321265897	0.401921
USP3-AS1	19.08601027	14.44524551	1.321265897	0.401921
KMT2C	10718.86933	8112.672112	1.321250161	0.401904
F2R	196.6688884	148.897146	1.320837193	0.401453
TMCO1	1008.239238	763.3756665	1.320764182	0.401373
ENSG000001	120.3248473	91.11616398	1.320565332	0.401156
KLHDC10	544.3662059	412.2450834	1.320491688	0.401075
IPO8	2743.406519	2077.893008	1.320282858	0.400847
RYK	1914.409812	1450.080415	1.320209413	0.400767
MCMDC2	63.06681654	47.78042745	1.319929936	0.400461
ENSG000001	63.06681654	47.78042745	1.319929936	0.400461
OSTC	546.8556855	414.4674288	1.319417757	0.399901
PGGT1B	351.8464501	266.6814555	1.319351019	0.399828
B3GALT2	87.96161254	66.67036389	1.319351019	0.399828
CEP170P1	43.98080627	33.33518194	1.319351019	0.399828
NDUFA8	482.1292159	365.5758286	1.318821372	0.399249
INO80E	499.5555731	378.9099014	1.318402003	0.39879
OXSM	218.2443783	165.564737	1.31818153	0.398549
NACA	1666.291679	1264.514568	1.317732291	0.398057
RBM18	341.0587052	258.9032464	1.317321084	0.397607
FUBP3	1602.395036	1216.734141	1.316963979	0.397216
RIMOC1	345.2078379	262.2367646	1.316397563	0.396595
WRNIP1	1452.196433	1103.394522	1.316117131	0.396288
SCYL2	2392.389896	1817.878589	1.316033926	0.396197
NUP42	331.9306133	252.23621	1.315951478	0.396106
CAMKK1	92.1107452	70.00388208	1.315794817	0.395935
SYCP2	486.483948	525.2801956	1.079748258	0.110695
SCUBE1	48.42826632	52.2790716	1.079515654	0.110384
TBC1D23	764.9464793	825.6774007	1.07939238	0.110219
ZNF415	466.6723845	503.7047058	1.079354002	0.110168
PSTK	56.13276323	60.57733694	1.079179671	0.109935
ZBTB33	928.9421994	1002.430452	1.079109608	0.109841
HMGB1P5	416.0428334	448.9361546	1.079062343	0.109778
GPR27	63.83726015	68.87560227	1.078924786	0.109594
CILK1	1100.642416	1187.481769	1.078898788	0.10956
SNAPC3	889.3190724	959.2794726	1.078667379	0.10925
RNF25	173.9015018	187.5407965	1.07843115	0.108934
HDAC4	670.2912315	722.7789106	1.078305782	0.108766
MRPS30	314.7837311	339.3990521	1.078197564	0.108622
DCAF11	117.7687385	126.9634596	1.078074378	0.108457
BUD23	353.3062156	380.8903788	1.078074378	0.108457
ESD	729.725922	786.6755536	1.078042495	0.108414
GCN1	2281.631729	2459.605845	1.078002998	0.108361
ZCCHC8	707.7130737	762.6105842	1.077570293	0.107782
DDX31	302.6766645	326.1218276	1.077459434	0.107634
ZNF518A	1442.942208	1554.265097	1.077149929	0.107219
UBE2D3P1	46.22698148	49.789592	1.077067773	0.107109
FAM118B	138.6809445	149.368776	1.077067773	0.107109
HRC	15.40899383	16.59653067	1.077067773	0.107109
TMEM50B	15.40899383	16.59653067	1.077067773	0.107109
SCN11A	15.40899383	16.59653067	1.077067773	0.107109
ENSG000002	15.40899383	16.59653067	1.077067773	0.107109
MTMR7	7.704496914	8.298265334	1.077067773	0.107109
SLC1A6	7.704496914	8.298265334	1.077067773	0.107109
FAM83E	7.704496914	8.298265334	1.077067773	0.107109
TTLL2	7.704496914	8.298265334	1.077067773	0.107109
ENSG000001	7.704496914	8.298265334	1.077067773	0.107109
SLC24A2	7.704496914	8.298265334	1.077067773	0.107109
WDFY3-AS2	7.704496914	8.298265334	1.077067773	0.107109
C1orf105	7.704496914	8.298265334	1.077067773	0.107109
FAM177B	7.704496914	8.298265334	1.077067773	0.107109
SYT15	7.704496914	8.298265334	1.077067773	0.107109
ST7-OT4	7.704496914	8.298265334	1.077067773	0.107109
PAPOLB	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
NUP50-DT	7.704496914	8.298265334	1.077067773	0.107109
ZC3H12A-DT	7.704496914	8.298265334	1.077067773	0.107109
LINC02983	7.704496914	8.298265334	1.077067773	0.107109
RPL12P12	7.704496914	8.298265334	1.077067773	0.107109
SH3GL1P1	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
ENSG000002	7.704496914	8.298265334	1.077067773	0.107109
CA5BP1.1	7.704496914	8.298265334	1.077067773	0.107109
TEKT4P2.1	7.704496914	8.298265334	1.077067773	0.107109
CEP128	924.5396297	994.9620135	1.076170217	0.105906
SNRPD3	105.661672	113.6862351	1.075945827	0.105605
ACYP2	97.95717505	105.3879697	1.075857585	0.105487
ZNF461	224.5310529	241.4795212	1.07548385	0.104986
USP48	2787.92724	2997.333439	1.075111787	0.104487
CAPN10	170.5995745	183.3916639	1.074983126	0.104314
EDF1	858.5010847	922.7671051	1.074858403	0.104147
RTL5	266.3554647	286.290154	1.074842426	0.104125
CSF1	294.9721676	316.9937357	1.074656427	0.103875
MCRS1	191.5117804	205.7969803	1.074591755	0.103789
ARMCX3	574.5353413	617.3909408	1.074591755	0.103789
ZNF79	132.07709	141.9003372	1.074375104	0.103498
STK38	1127.057834	1210.716912	1.074227848	0.1033
YTHDF3	2467.640297	2650.465948	1.074089263	0.103114
C12orf29	277.3618889	297.9077255	1.074075918	0.103096
RACK1	7641.760296	8206.984415	1.073965173	0.102947
FTX	757.2419824	813.2300027	1.073936762	0.102909
SPCS1	915.7344904	983.344442	1.073831392	0.102767
HOMER2	796.8651094	855.5511559	1.073646149	0.102519
RBMXL1	231.1349074	248.1181335	1.073477547	0.102292
SFT2D1	129.8758051	139.4108576	1.073416696	0.10221
PTRH1	64.93790256	69.7054288	1.073416696	0.10221
ZNF782	930.0428418	998.2813196	1.073371327	0.102149
R3HDM1	1751.122084	1879.557098	1.073344409	0.102113
C12orf4	358.8094277	385.0395115	1.073103106	0.101789
BLTP3A	616.3597531	661.3717471	1.073028769	0.101689
SGK3	28.61670282	30.70358173	1.072925205	0.10155
RPSAP15	28.61670282	30.70358173	1.072925205	0.10155
RPL31	286.1670282	307.0358173	1.072925205	0.10155
DDX54	466.6723845	500.3853996	1.07224129	0.10063
AAGAB	748.4368431	802.4422578	1.072157611	0.100517
GAS6	780.3554732	836.4651456	1.071902709	0.100174
REV3L	5591.263475	5990.517744	1.071406807	0.099506
C20orf96	326.8907976	350.1867971	1.071265388	0.099316
RAB6D	138.6809445	148.5389495	1.071084063	0.099072
GATAD2B	96.85653263	103.7283167	1.07094807	0.098889
SPTY2D1	516.2012932	552.6644712	1.070637518	0.09847
DOCK9	1650.963624	1767.530516	1.070605366	0.098427
ZNF224	844.1927333	903.6810948	1.070467749	0.098241
SMARCA4	2949.721676	3157.489959	1.070436572	0.098199
RPS4X	5335.914434	5707.546896	1.06964738	0.097135
JRKL	423.7473303	453.0852872	1.069234553	0.096578
KLF15	208.0214167	222.3935109	1.069089493	0.096383
TMCO1	943.2505508	1008.239238	1.068898648	0.096125
TMEM184C	814.4753881	870.4880335	1.06877144	0.095953
LMO4	319.1863007	341.0587052	1.068525511	0.095621
TPRG1L	232.2355498	248.1181335	1.068389976	0.095438
ADGRA3	1330.676681	1421.492852	1.068248111	0.095247

THEM4	108.9635992	62.22567296	0.571068443	-0.808264
ILK	1015.89295	580.0321658	0.570957959	-0.808544
GOLPH3L	714.3169282	407.8003924	0.570895602	-0.808701
TGFB1I1	235.5374771	134.4519005	0.57083018	-0.808866
C19orf53	177.203429	101.1167186	0.570625067	-0.809385
NGEF	25.31477557	14.44524551	0.570625067	-0.809385
FOXN1	25.31477557	14.44524551	0.570625067	-0.809385
H1-1	25.31477557	14.44524551	0.570625067	-0.809385
ZNF883	25.31477557	14.44524551	0.570625067	-0.809385
CCDC15	220.1284833	125.5625187	0.570405596	-0.80994
RND3	728.6252796	415.5786016	0.570359845	-0.810056
FBXO25	518.4025781	295.5719466	0.570159098	-0.810564
TBL1X	960.8608294	547.8081566	0.570122269	-0.810657
THEMIS2	161.7944352	92.22733671	0.570027867	-0.810896
CHMP4B	1337.280536	762.2644938	0.570010909	-0.810939
ZC3H14	2481.948649	1414.522887	0.569924316	-0.811158
TCP11L1	214.6252712	122.2290005	0.569499574	-0.812233
NOD2	42.92505424	24.44580009	0.569499574	-0.812233
EGLN2	42.92505424	24.44580009	0.569499574	-0.812233
RPL6P19	121.0706658	68.89270935	0.569028913	-0.813426
DNAL4	60.5353329	34.44635467	0.569028913	-0.813426
EIF4BP3	60.5353329	34.44635467	0.569028913	-0.813426
IFT46	302.6766645	172.2317734	0.569028913	-0.813426
STIL	806.7708911	458.9143381	0.568828577	-0.813934
HYLS1	78.14561156	44.44690926	0.568770381	-0.814082
SLIRP	523.9057902	297.794292	0.568411912	-0.814991
KNTC1	707.7130737	402.2445288	0.56837233	-0.815092
CACUL1	997.1820292	566.698093	0.568299545	-0.815277
NSMCE2	289.4689555	164.4535643	0.568121593	-0.815728
MFGE8	948.7537628	538.9187747	0.568028076	-0.815966
AK9	228.9336226	130.0072096	0.567881677	-0.816338
PI4K2A	35.22055732	20.00110917	0.567881677	-0.816338
MFF-DT	35.22055732	20.00110917	0.567881677	-0.816338
LINC00662	35.22055732	20.00110917	0.567881677	-0.816338
ENSG000002	35.22055732	20.00110917	0.567881677	-0.816338
NEFM	17.61027866	10.00055458	0.567881677	-0.816338
LMOD3	17.61027866	10.00055458	0.567881677	-0.816338
TMC4	17.61027866	10.00055458	0.567881677	-0.816338
REP15	17.61027866	10.00055458	0.567881677	-0.816338
TRIM73	17.61027866	10.00055458	0.567881677	-0.816338
BRCC3P1	17.61027866	10.00055458	0.567881677	-0.816338
ENSG000002	17.61027866	10.00055458	0.567881677	-0.816338
ETAA1	379.7216336	215.5675099	0.567698785	-0.816802
PHF21B	256.449683	145.5636278	0.567610871	-0.817026
IDH2	1070.925071	607.8114841	0.567557433	-0.817162
DENND4A	2538.081412	1440.07986	0.567389152	-0.81759
SRPX2	195.9143501	111.1172731	0.567172711	-0.81814
MAGOH	356.6081429	202.2334371	0.56710269	-0.818318
ENSG000002	80.34689639	45.55808199	0.567017322	-0.818535
ZNF610	223.4304105	126.6736914	0.566949195	-0.818709
NCAPG2	491.9871601	278.9043556	0.566893566	-0.81885
PDHA1	983.9743202	557.8087112	0.566893566	-0.81885
LY9	62.73661773	35.55752741	0.566774695	-0.819153
RRM1	421.5460454	238.9021373	0.566728451	-0.81927
MT2A	835.387594	473.3595836	0.566634682	-0.819509
AFTPH	1333.978609	755.5974574	0.566423969	-0.820046
ARFGEF1	11180.32566	6332.573396	0.566403304	-0.820098
ZNF425	135.3790172	76.67091847	0.566342703	-0.820253
NRROS	45.12633907	25.55697282	0.566342703	-0.820253
PBDC1	263.0535375	148.897146	0.56603362	-0.82104
LRR1	72.64239948	41.11339106	0.565969618	-0.821203
CALM1	2206.788045	1248.95815	0.565961989	-0.821223
PHACTR2	681.2976557	385.5769378	0.565944906	-0.821266
LGALS3	708.8137161	401.133356	0.565922113	-0.821325
TMED2	2293.738796	1297.84975	0.565822819	-0.821578
NRAS	483.1820208	273.3484919	0.56572571	-0.821825
PLEKHA5	1704.895103	964.4979309	0.565722741	-0.821833
ABCG2	127.6745203	72.22622754	0.565705885	-0.821876
TRUB1	310.3811614	175.5652916	0.565644161	-0.822033
SS18	1479.263408	836.7130668	0.565628179	-0.822074
PYGM	182.7066411	103.339064	0.565601028	-0.822143
RAB10	1316.36833	744.4857301	0.565560347	-0.822247
FIP1L1	502.9935842	284.4602192	0.565534488	-0.822313
SORL1	4521.439046	2556.808455	0.565485552	-0.822438
CNOT7	778.1541883	440.0244016	0.565471995	-0.822473
SF3A1	2629.434733	1486.749115	0.565425373	-0.822591
SYAP1	687.9015102	388.910456	0.565357759	-0.822764
LGALS1	577.8372686	326.684783	0.565357759	-0.822764
ENSAP2	55.03212081	31.11283648	0.565357759	-0.822764
ST8SIA5	27.51606041	15.55641824	0.565357759	-0.822764
RN7SL4P	82.54818122	46.66925472	0.565357759	-0.822764
OSTF1	652.6809529	368.9093468	0.565221561	-0.823112
GNG12	442.4582514	250.0138646	0.565056395	-0.823533
ZFP1	119.9700234	67.78153662	0.564987275	-0.82371
DDX18	369.8158519	208.9004735	0.564877012	-0.823991
NOCT	64.93790256	36.66870014	0.564673306	-0.824512
PIBF1	297.1734524	167.7870824	0.564609931	-0.824674
SCN8A	641.6745287	362.2423104	0.564526554	-0.824887
TBC1D15	913.5332055	515.5841474	0.564384682	-0.825249
ST13	1138.064258	642.2578388	0.564342333	-0.825358
FRMD3	74.84368431	42.22456379	0.564170032	-0.825798
H3C1	37.42184215	21.1122819	0.564170032	-0.825798
FZD8	112.2655265	63.33684569	0.564170032	-0.825798
CPVL	336.7965794	190.0105371	0.564170032	-0.825798
ITGA11	782.556758	441.1355744	0.563710644	-0.826973
ZYG11A	368.7152095	207.7893008	0.563549578	-0.827386
TDRD3	463.3704573	261.1255919	0.563535262	-0.827422
DYRK4	141.9828717	80.00443666	0.563479494	-0.827565
ATXN2	5015.627491	2824.601083	0.563160061	-0.828383
TRAIP	57.23340565	32.22400921	0.563027988	-0.828721
POM121C	1594.830861	897.827567	0.562960994	-0.828893
SANBR	282.1410213	214.4563372	1.315610558	0.395732
DISP2	67.2159492	51.11394565	1.315021729	0.395087
C22orf39	67.2159492	51.11394565	1.315021729	0.395087
SPATA7	305.3761643	232.2351009	1.314944051	0.395001
SAMM50	530.2591548	403.3557015	1.314619213	0.394645
MESD	511.1731446	388.910456	1.314372336	0.394374
CDC26P1	36.51236747	27.77931829	1.314372336	0.394374
ZNF302	553.4942978	421.1344652	1.314293518	0.394288
SHLD3	78.83352067	60.0033275	1.313819149	0.393767
COX4I1	1335.190892	1016.723049	1.313229687	0.393119
PPM1B	175.0933985	133.3407278	1.313127665	0.393007
ARL1	1321.913668	1006.722495	1.313086451	0.392962
MBOAT1	548.5153386	417.800947	1.312862842	0.392716
ZNF175	331.1007868	252.23621	1.312661599	0.392495
DCAF12	781.6965944	595.5885841	1.312477464	0.392293
PDE8A	606.6031959	462.2478563	1.312289906	0.392086
DAD1	676.3086247	515.5841474	1.311732776	0.391474
PSMC3	1165.906279	888.9381852	1.311571827	0.391297
NBPF9	424.0413586	323.3512648	1.311395391	0.391103
PPIP5K2	1112.797381	848.9359668	1.310814272	0.390463
MKRN9P	142.7301637	108.8949277	1.310714528	0.390354
SLC4A7	1605.714342	1225.623523	1.310120369	0.389699
H3-5	94.6002248	72.22622754	1.309776629	0.389321
RBM14	1299.508351	992.2772492	1.309622237	0.389151
CDR2L	100.4090105	76.67091847	1.309610117	0.389137
TXNDC15	643.1155634	491.1383473	1.309438709	0.388949
ZNF207	1701.97422	1300.072096	1.309138336	0.388618
SAMD15	170.1144393	130.0072096	1.308500043	0.387914
NR2C2	1272.124076	972.27614	1.308397916	0.387801
ASTE1	303.7165112	232.2351009	1.307797616	0.387139
PLEKHF2	390.8482972	298.9054648	1.307598366	0.386919
ZNF584	419.8922259	321.1289194	1.307550334	0.386866
TSPAN17	530.2591548	405.578047	1.30741582	0.386718
MLF2	1198.269514	916.7175034	1.307130615	0.386403
ST13P6	11.61757147	8.889381852	1.306904311	0.386154
CLEC5A	11.61757147	8.889381852	1.306904311	0.386154
TPM4P2	29.04392867	22.22345463	1.306904311	0.386154
OR7C1	5.808785734	4.444690926	1.306904311	0.386154
SPATA16	5.808785734	4.444690926	1.306904311	0.386154
HSF5	5.808785734	4.444690926	1.306904311	0.386154
TRAPPC5	5.808785734	4.444690926	1.306904311	0.386154
HRG-AS1	5.808785734	4.444690926	1.306904311	0.386154
HSD3B2	5.808785734	4.444690926	1.306904311	0.386154
HSDL2-AS1	5.808785734	4.444690926	1.306904311	0.386154
ZNRF2P1	5.808785734	4.444690926	1.306904311	0.386154
RPL7AP11	5.808785734	4.444690926	1.306904311	0.386154
RAC1P2	5.808785734	4.444690926	1.306904311	0.386154
MIR193BHG	5.808785734	4.444690926	1.306904311	0.386154
ENSG000002	5.808785734	4.444690926	1.306904311	0.386154
ENSG000002	5.808785734	4.444690926	1.306904311	0.386154
ATRIP	98.74935747	75.55974574	1.306904311	0.386154
TNFSF8	17.4263572	13.33407278	1.306904311	0.386154
DACT3	17.4263572	13.33407278	1.306904311	0.386154
UBE2E3	1212.376565	927.8292308	1.306680718	0.385907
CHUK	509.5134915	390.0216287	1.306372401	0.385566
COPS5	867.9985539	664.4812934	1.306279895	0.385464
METTL8	294.5884193	225.5680645	1.305984604	0.385138
ZNF234	277.1620621	212.2339917	1.305926821	0.385074
ACTN1	1858.811435	1423.412269	1.305884089	0.385027
NUB1	525.2801956	402.2445288	1.305872816	0.385014
VPS72	726.9280432	556.6975385	1.305786344	0.384919
UFC1	692.0753288	530.0293929	1.305730094	0.384857
KPNA1	1280.422341	981.1655219	1.305001361	0.384051
MDM1	252.2672661	193.3440553	1.304758327	0.383783
LUC7L3	1744.295373	1337.851969	1.303802972	0.382726
CHMP1B	512.8327976	393.3551469	1.303739894	0.382656
SLC15A4	244.7988273	187.7881916	1.303590099	0.38249
TOE1	141.9003372	108.8949277	1.303094095	0.381941
DNAAF2	402.4658687	308.9060193	1.302874802	0.381698
PRDX2	1295.359219	994.4995946	1.302523627	0.38131
PPP2R1B	614.9014612	472.2484109	1.30207206	0.380809
SARS1	957.6198195	735.5963482	1.30182786	0.380539
ARV1	202.4776741	155.5641824	1.301570008	0.380253
SNX14	101.2388371	77.7820912	1.301570008	0.380253
ANKRD54	50.61941854	38.8910456	1.301570008	0.380253
TSHZ2	196.6688884	151.1194915	1.301413117	0.380079
ZNF141	375.9114196	288.9049102	1.301159677	0.379798
BROX	1335.190892	1026.723604	1.300438489	0.378998
EXPH5	1577.50024	1213.400623	1.300065461	0.378584
NGFR	39.00184707	30.00166375	1.299989474	0.3785
GYG1	273.0129295	210.0116462	1.299989474	0.3785
TMEM51	156.0073883	120.006655	1.299989474	0.3785
ORMDL1	538.5574202	414.4674288	1.299396244	0.377841
ZNF530	105.3879697	81.11560939	1.299231683	0.377659
MFSD9	298.737552	230.0127554	1.298786893	0.377165
GOPC	259.7357049	200.0110917	1.298606506	0.376964
ZFAND3	701.2034207	540.0299475	1.298452843	0.376794
NOTCH1	3135.91447	2415.689518	1.298144669	0.376451
PUM2	5300.931895	4083.559788	1.298115412	0.376419
PHOSPHO2	181.7320108	140.0077642	1.298013806	0.376306
CCDC81	60.57733694	46.66925472	1.298013806	0.376306
ZNF221	302.8866847	233.3462736	1.298013806	0.376306
GCA	770.079023	593.3662386	1.297814019	0.376084
CASD1	703.6929003	542.2522929	1.297722314	0.375982
SPIRE2	164.3056536	126.6736914	1.297077963	0.375265
TADA1	219.0742048	168.8982552	1.297077963	0.375265
SUPT3H	268.0339703	206.678128	1.296866644	0.37503
KCNB1	207.4566333	160.0088733	1.296532055	0.374658
PURB	370.1026339	285.571392	1.296007388	0.374074
GLDC	244.7988273	188.8993643	1.295921922	0.373979
TTI1	1320.254015	1018.945395	1.295706346	0.373739
TTLL4	522.8051477	558.473257	1.06822448	0.095215
LAT2	26.41541799	28.21410213	1.068092208	0.095036
PRDX6-AS1	13.207709	14.10705107	1.068092208	0.095036
TMEM161B	224.5310529	239.8198681	1.068092208	0.095036
RPS6KA3	1339.481821	1430.620944	1.068040582	0.094966
UPF3B	433.653112	463.0432056	1.06777328	0.094605
TPP1	589.9443351	629.8383388	1.067623335	0.094403
PREPL	2391.695971	2553.376243	1.067600679	0.094372
PRCP	949.8544053	1014.048024	1.067582588	0.094348
SPHK2	156.2912231	166.7951332	1.067207293	0.09384
SCNM1	156.2912231	166.7951332	1.067207293	0.09384
PSMA4	1134.762331	1210.716912	1.066934352	0.093471
GPS1	575.6359837	614.0716347	1.066770758	0.09325
GBA2	682.3982981	727.7578698	1.066470816	0.092844
RAB11FIP2	855.1991575	911.9793602	1.066394128	0.092741
ZNG1A	832.0856667	887.0845642	1.066097638	0.09234
FARS2	268.5567496	286.290154	1.066032243	0.092251
GNB1L	31.91863007	34.02288787	1.065925693	0.092107
MFF	1214.008585	1293.699566	1.065642847	0.091724
SNRPA1	202.5182046	215.7548987	1.065360515	0.091342
SART1	549.2205657	585.027706	1.065196285	0.091119
FUBP3	1504.578183	1602.395036	1.065012808	0.090871
VPS13B	8314.252813	8851.759631	1.064648842	0.090378
CACNB1	130.9764475	139.4108576	1.064396387	0.090036
SMAGP	37.42184215	39.8316736	1.064396387	0.090036
SLC9A5	18.71092108	19.9158368	1.064396387	0.090036
LINGO3	18.71092108	19.9158368	1.064396387	0.090036
ZNF33BP1	18.71092108	19.9158368	1.064396387	0.090036
PPIAP11	18.71092108	19.9158368	1.064396387	0.090036
SIRT6	93.55460539	99.579184	1.064396387	0.090036
SNX17	527.2077174	560.9627366	1.064026034	0.089533
RFXANK	117.7687385	125.3038065	1.063981903	0.089474
CAMLG	198.1156349	210.7759395	1.063903611	0.089367
FBXO9	859.6017271	914.4688398	1.063828528	0.089266
BLTP1	11020.73251	11723.78926	1.063794013	0.089219
PARG	562.4282747	598.3049306	1.063788855	0.089212
PPP4R3B	1895.306241	2015.64865	1.063494968	0.088813
HCFC1R1	209.1220591	222.3935109	1.063462706	0.088769
GTF3C2	799.0663942	849.7423702	1.06341898	0.08871
RPL17P7	220.1284833	234.0110824	1.063065892	0.088231
P3H1	384.1242033	408.2746544	1.062871464	0.087967
CLDN4	316.9850159	336.9095725	1.062856462	0.087947
CYTH2	771.5503338	819.868615	1.062624924	0.087632
KLHDC9	72.64239948	77.1738676	1.062380485	0.087301
IGLV7-46	24.21413316	25.72462253	1.062380485	0.087301
EFCAB8	24.21413316	25.72462253	1.062380485	0.087301
HNRNPDL	3544.06858	3764.922982	1.062316627	0.087214
NPIPB11	320.2869431	340.2288787	1.062262718	0.087141
ATXN7L1	859.6017271	912.8091867	1.061897804	0.086645
WIZ	684.5995829	726.9280432	1.061829515	0.086552
NAGA	329.0920825	349.3569705	1.06157817	0.086211
PTPA	369.8158519	392.5079503	1.061360535	0.085915
ZNF148	2521.571776	2676.19057	1.061318419	0.085858
ZMYM3	1061.019289	1126.074606	1.061313981	0.085852
GSC	59.43469048	63.06681654	1.061111213	0.085576
ALS2	1765.430436	1872.918486	1.060884897	0.085268
PIK3CB	1586.025722	1682.058383	1.060549246	0.084812
DRAM2	536.0128567	568.4311754	1.060480487	0.084718
NAGK	205.8201318	218.2443783	1.060364583	0.08456
ARL6	140.8822293	149.368776	1.060238589	0.084389
PAF1	1021.396162	1082.923626	1.060238589	0.084389
PCIF1	433.653112	459.7238995	1.060118991	0.084226
ATXN3	807.8715336	856.3809824	1.060045994	0.084127
POLG2	263.0535375	278.8217152	1.059942846	0.083986
FZR1	355.5075005	376.7412461	1.059727982	0.083694
YWHAG	1075.327641	1139.35183	1.059539239	0.083437
AGA	331.2933673	351.0166236	1.059534112	0.08343
COX15	168.3982897	178.4127047	1.059468626	0.083341
ZC3H7A	1024.69809	1085.413106	1.059251614	0.083045
NFE2L1	2633.837302	2789.876805	1.059244169	0.083035
ARMC6	312.5824462	331.1007868	1.05924306	0.083034
SNX12	508.4967963	538.5574202	1.059116643	0.082861
RPL13A	715.4175706	757.631625	1.059006175	0.082711
UQCC3	97.95717505	103.7283167	1.058914945	0.082587
PRKCSH	2330.059995	2467.074284	1.058802902	0.082434
CHURC1	108.9635992	115.3458881	1.05857267	0.08212
SERTAD2	275.1606041	291.2691132	1.058542207	0.082079
THAP9	228.9336226	242.3093477	1.058426215	0.081921
ARHGAP21	2811.040731	2974.928122	1.058301322	0.08175
DEDD	346.7023611	366.7833277	1.057919902	0.08123
R3HCC1L	294.9721676	312.0147765	1.057777007	0.081036
PHF20L1	1480.36405	1565.882668	1.05776864	0.081024
PDP2	158.4925079	167.6249597	1.057620716	0.080822
RBM18	322.488228	341.0587052	1.057584977	0.080774
ARV1	191.5117804	202.4776741	1.05725963	0.08033
CLEC16A	1182.089955	1249.718759	1.057211216	0.080264
BRD3	1794.047139	1896.153629	1.056914051	0.079858
ZNF17	252.0471133	266.3743172	1.056843356	0.079762
OXSR1	650.479668	687.0963696	1.056291846	0.079008
OTUB1	604.2526865	638.1366042	1.056075742	0.078713
NCOA7	495.2890873	522.790716	1.055526418	0.077963
TMEM51-AS	16.50963624	17.4263572	1.055526418	0.077963
ENSG000002	16.50963624	17.4263572	1.055526418	0.077963
ENSG000002	16.50963624	17.4263572	1.055526418	0.077963
ADAM11	22.01284833	23.23514293	1.055526418	0.077963
CETP	11.00642416	11.61757147	1.055526418	0.077963
RHOXF1	11.00642416	11.61757147	1.055526418	0.077963
FBXO24	11.00642416	11.61757147	1.055526418	0.077963
GTF2H1	11.00642416	11.61757147	1.055526418	0.077963
C18orf32	11.00642416	11.61757147	1.055526418	0.077963
KCTD16	11.00642416	11.61757147	1.055526418	0.077963

IMMP2L	238.8394043	134.4519005	0.562938519	-0.828951
DDX19A	67.13918739	37.77987287	0.562709713	-0.829537
RBM28	855.1991575	481.1377927	0.562603212	-0.82981
MARCHF1	77.04496914	43.33573653	0.56247328	-0.830144
DDX20	491.9871601	276.6820101	0.562376486	-0.830392
ZNF28	983.9743202	553.3640203	0.562376486	-0.830392
UGDH	3791.713124	2132.340472	0.562368619	-0.830412
TASP1	583.3404806	327.7959558	0.561929039	-0.83154
USP48	2787.92724	1565.642379	0.561579354	-0.832438
SMAD9	548.1199233	307.7948466	0.56154654	-0.832522
PXYLP1	431.4518272	242.2356555	0.561443109	-0.832788
COG2	897.0235693	503.3612473	0.561146066	-0.833552
METTL24	59.43469048	33.33518194	0.560870792	-0.83426
SDCBP2-AS1	29.71734524	16.66759097	0.560870792	-0.83426
CCDC18	158.4925079	88.89381852	0.560870792	-0.83426
CXCL1	49.52890873	27.77931829	0.560870792	-0.83426
POC1A	49.52890873	27.77931829	0.560870792	-0.83426
OLR1	49.52890873	27.77931829	0.560870792	-0.83426
GIPC2	19.81156349	11.11172731	0.560870792	-0.83426
C4orf33	19.81156349	11.11172731	0.560870792	-0.83426
DEUP1	19.81156349	11.11172731	0.560870792	-0.83426
IYD	9.905781747	5.555863657	0.560870792	-0.83426
TMPRSS11E	9.905781747	5.555863657	0.560870792	-0.83426
PRPF31	9.905781747	5.555863657	0.560870792	-0.83426
SLITRK3	9.905781747	5.555863657	0.560870792	-0.83426
ST6GAL2	9.905781747	5.555863657	0.560870792	-0.83426
CHP2	9.905781747	5.555863657	0.560870792	-0.83426
NHERF4	9.905781747	5.555863657	0.560870792	-0.83426
GIPC3	9.905781747	5.555863657	0.560870792	-0.83426
CDKN2B-AS	9.905781747	5.555863657	0.560870792	-0.83426
RHOQP1	9.905781747	5.555863657	0.560870792	-0.83426
ENSG000002	9.905781747	5.555863657	0.560870792	-0.83426
ENSG000002	9.905781747	5.555863657	0.560870792	-0.83426
ACAD9-DT	9.905781747	5.555863657	0.560870792	-0.83426
ANKRD26	1190.895094	667.8148116	0.560767119	-0.834526
TFEB	170.5995745	95.5608549	0.560147088	-0.836122
SMAD1	482.0813783	270.0149737	0.560102476	-0.836237
ACBD3	2295.94008	1284.515678	0.559472648	-0.83786
CUL4A	947.6531204	530.0293929	0.559307389	-0.838287
MGME1	224.5310529	125.5625187	0.559221172	-0.838509
DCLRE1C	636.1713166	355.5752741	0.558930063	-0.83926
PLA2G4C	61.63597531	34.44635467	0.558867682	-0.839421
KLHDC7A	61.63597531	34.44635467	0.558867682	-0.839421
SLITRK4	61.63597531	34.44635467	0.558867682	-0.839421
ATP6V1G1	648.2783832	362.2423104	0.558775859	-0.839658
WARS1	1165.580319	651.1472206	0.558646376	-0.839993
RBBP6	2101.126373	1173.398404	0.558461604	-0.84047
APOBEC3C	93.55460539	52.22511838	0.5582314	-0.841065
CLOCK	1674.077115	934.4962671	0.558215783	-0.841105
PRR14L	4545.653179	2536.807346	0.558073229	-0.841474
STX17	438.0556817	244.4580009	0.558052346	-0.841528
PGM3	1387.910087	774.4873938	0.558024184	-0.8416
B3GAT1	41.82441182	23.33462736	0.557918841	-0.841873
SETD4	285.0663858	158.8977006	0.557405953	-0.8432
SMARCC1	3267.807334	1821.212107	0.557319303	-0.843424
EFCAB6	540.4154264	301.1278102	0.557215423	-0.843693
TGFB1	933.344769	520.0288383	0.557166929	-0.843818
HIP1	690.102795	384.4657651	0.557113763	-0.843956
C14orf28	95.75589022	53.33629111	0.557002718	-0.844244
DEPDC1B	63.83726015	35.55752741	0.557002718	-0.844244
CENPK	31.91863007	17.7787637	0.557002718	-0.844244
PRR13	31.91863007	17.7787637	0.557002718	-0.844244
SRRM5	31.91863007	17.7787637	0.557002718	-0.844244
TDGP1	31.91863007	17.7787637	0.557002718	-0.844244
STX5-DT	31.91863007	17.7787637	0.557002718	-0.844244
CCZ1	309.280519	172.2317734	0.556878829	-0.844565
TERF2	480.9807359	267.7926283	0.556763729	-0.844863
RASGRP3	149.6873686	83.33795486	0.556746742	-0.844907
HYPK	149.6873686	83.33795486	0.556746742	-0.844907
CTCF	983.9743202	547.8081566	0.556730136	-0.84495
RASAL3	117.7687385	65.55919115	0.556677366	-0.845087
CETN3	117.7687385	65.55919115	0.556677366	-0.845087
UBAP2	2335.563207	1300.072096	0.556641795	-0.845179
ADAM10	5536.231354	3079.059639	0.556165276	-0.846414
ZNF583	217.9271984	121.1178277	0.555771967	-0.847435
CNTNAP1	305.9785917	170.0094279	0.555625238	-0.847816
MED21	350.0042884	194.455228	0.555579558	-0.847935
S1PR2	252.0471133	140.0077642	0.555482514	-0.848187
N4BP2L1	406.1370516	225.5680645	0.555398882	-0.848404
BMAL2	110.0642416	61.11450023	0.555262084	-0.848759
KIF18A	44.02569665	24.44580009	0.555262084	-0.848759
CDC20	22.01284833	12.22290005	0.555262084	-0.848759
ZNF184	528.3083598	293.3496011	0.555262084	-0.848759
CD1C	66.03854498	36.66870014	0.555262084	-0.848759
NTM	88.0513933	48.89160018	0.555262084	-0.848759
SETMAR	210.2227015	116.6731368	0.5549978	-0.849446
TTC23	388.526773	215.5675099	0.55483309	-0.849874
DDX21	1292.154197	716.7064118	0.554660128	-0.850324
TGFBR2	4581.974379	2541.252037	0.554619434	-0.85043
NEDD1	591.0449776	327.7959558	0.55460408	-0.85047
EIF4ENIF1	1150.171325	637.8131478	0.554537515	-0.850643
NR2F2	2014.175622	1116.728595	0.55443457	-0.850911
KIZ	685.7002254	380.0210742	0.554208764	-0.851499
SAMD4A	619.6616804	343.352374	0.554096509	-0.851791
ABCB4	90.25267814	50.00277291	0.554030905	-0.851962
USO1	3550.672435	1966.775735	0.553916412	-0.85226
PDK2	419.3447606	232.2351009	0.553804704	-0.852551
IGSF9B	397.3319123	220.0122008	0.553723962	-0.852761
ACSL3	1898.608168	1051.169404	0.553652629	-0.852947
RSPH10B	34.11991491	18.88993643	0.55363375	-0.852996
CFAP91	34.11991491	18.88993643	0.55363375	-0.852996
FPGT	358.4850624	276.6820101	1.295657286	0.373684
GNPAT	981.684789	757.8198028	1.295406619	0.373405
RBM22	325.2920011	251.1250373	1.295338786	0.373329
MZT2A	135.2617249	104.4502368	1.294987251	0.372938
METTL2B	156.8372148	121.1178277	1.294914364	0.372857
MECOM	1067.156922	824.4901667	1.294323407	0.372198
RTCA	441.4677158	341.1300286	1.294133259	0.371986
SLC25A3	3235.493654	2500.138646	1.294125691	0.371978
PSMD1	3078.656439	2379.020818	1.29408554	0.371933
FRS2	370.9324604	286.6825647	1.293878687	0.371702
WIPF2	655.5629614	506.6947655	1.293802514	0.371617
ULBP3	80.49317374	62.22567296	1.293568553	0.371357
MALSU1	219.9040313	170.0094279	1.293481391	0.371259
HIC2	117.8353677	91.11616398	1.293243291	0.370994
ZNF549	390.8482972	302.238983	1.293176325	0.370919
ZNF813	422.3817055	326.684783	1.292933517	0.370648
GLOD4	876.2968192	677.8153662	1.292825249	0.370527
MPC2	758.4614515	586.6992022	1.292760325	0.370455
KRT10	314.5042561	243.3468282	1.292411569	0.370066
TMEM39B	202.4776741	156.6753551	1.292339015	0.369985
CBR1	165.1354801	127.7848641	1.292292959	0.369933
CLDND1	580.0487468	448.9137835	1.292116144	0.369736
ZNF57	271.3532764	210.0116462	1.292086802	0.369703
VCPIP1	2857.922581	2212.344908	1.291806974	0.369391
CASP2	434.8291035	336.6853376	1.29149997	0.369048
USP32	3016.419449	2335.685081	1.291449551	0.368991
LYAR	206.6268068	160.0088733	1.291345927	0.368876
CWC15	873.8073396	676.7041934	1.291269284	0.36879
LRRC8B	787.5053802	610.0338296	1.290920834	0.368401
VPS13A	7353.922739	5696.982594	1.290845218	0.368316
FLNA	14060.58078	10892.82629	1.290811073	0.368278
C1orf131	248.1181335	192.2328825	1.290716397	0.368172
CHM	857.210809	664.4812934	1.290045058	0.367421
PTPRA	2560.014855	1984.554498	1.289969541	0.367337
ZACN	15.76670413	12.22290005	1.289931528	0.367294
OFD1P17	15.76670413	12.22290005	1.289931528	0.367294
GOLGA4	1908.601027	1480.082078	1.289523774	0.366838
NCKAP1	3537.550512	2743.485474	1.289436575	0.366741
POLH	455.5747668	353.3529286	1.289291046	0.366578
SCO1	560.13291	434.468538	1.28923699	0.366517
TES	250.6076131	194.455228	1.28876768	0.365992
ACTR1A	834.8054926	647.8137024	1.288650563	0.365861
VLDLR	187.5407965	145.5636278	1.288376769	0.365555
ICE2	890.4038703	691.149439	1.288294282	0.365462
H4C16	588.3470122	456.6919926	1.288279676	0.365446
LPCAT1	57.2580308	44.44690926	1.28823425	0.365395
ZC3H13	3441.290634	2672.370419	1.287729654	0.36483
LIMCH1	3179.065449	2469.025809	1.287578865	0.364661
CDC73	1527.710648	1186.732477	1.287325221	0.364377
VPS45	897.8723091	697.8164753	1.286688321	0.363663
IP6K2	971.7268706	755.5974574	1.286037772	0.362933
KLC2	877.1266458	682.2600571	1.285619225	0.362463
FILIP1L	435.65893	338.9076831	1.285479651	0.362307
FA2H	61.40716347	47.78042745	1.285194937	0.361987
PMPCB	790.8246863	615.5896932	1.284662	0.361389
FGD1	438.1484096	341.1300286	1.284402934	0.361098
OSBPL6	376.7412461	293.3496011	1.284273934	0.360953
CRNDE	345.2078379	268.903801	1.283759607	0.360375
UTP6	931.0653704	725.5957936	1.283173605	0.359716
ATIC	1501.986025	1171.176059	1.282459639	0.358913
SYT2	75.51421454	58.89215477	1.282245739	0.358673
KDM4C	1330.211933	1037.835331	1.281717719	0.358079
USE1	115.3458881	90.00499125	1.281549907	0.35789
KIAA0232	1580.819546	1234.512905	1.280520876	0.356731
SPR	49.789592	38.8910456	1.280232795	0.356406
SOX18	49.789592	38.8910456	1.280232795	0.356406
ADGRE5	318.6533888	248.9026918	1.280232795	0.356406
TUBB4B	5018.790874	3920.217397	1.280232795	0.356406
RNF185	69.7054288	54.44746384	1.280232795	0.356406
TRPC7	29.8737552	23.33462736	1.280232795	0.356406
CCDC28B	29.8737552	23.33462736	1.280232795	0.356406
DUSP28	29.8737552	23.33462736	1.280232795	0.356406
H1-10-AS1	29.8737552	23.33462736	1.280232795	0.356406
CD5	9.9579184	7.77820912	1.280232795	0.356406
CUTA	9.9579184	7.77820912	1.280232795	0.356406
INHBE	9.9579184	7.77820912	1.280232795	0.356406
APRG1	9.9579184	7.77820912	1.280232795	0.356406
DDX50P1	9.9579184	7.77820912	1.280232795	0.356406
PRKAR1A	2639.678203	2062.33659	1.279945386	0.356082
ARHGAP44	442.2975423	345.5747195	1.279889753	0.35602
NLK	899.5319622	703.372339	1.278884472	0.354886
PIP4K2C	582.5382264	455.5808199	1.278671535	0.354646
SLC12A6	698.7139411	546.6969839	1.278064379	0.353961
CA2	137.7512045	107.7837549	1.278033082	0.353925
MINDY3	726.9280432	568.9204385	1.27773234	0.353586
UBE2M	485.448522	380.0210742	1.277425267	0.353239
TRIB3	53.93872467	42.22456379	1.277425267	0.353239
GMPSP1	53.93872467	42.22456379	1.277425267	0.353239
PON2	671.3296655	525.584702	1.27730062	0.353098
GRSF1	1650.524975	1292.293887	1.277205589	0.352991
PLEKHA2	337.7393991	264.4591101	1.277094969	0.352866
CEP70	1516.922903	1187.84365	1.277039199	0.352803
CCDC47	1639.73723	1284.515678	1.276541235	0.35224
SS18	1067.986748	836.7130668	1.276407398	0.352089
ZNF740	190.0302761	148.897146	1.276251971	0.351913
ZNF527	224.053164	175.5652916	1.276181425	0.351833
TTC30B	706.1823799	553.3640203	1.276162443	0.351812
MAL2	2011.499517	1576.754106	1.275721756	0.351314
SNX12	538.5574202	422.2456379	1.275459997	0.351018
PRPF3	887.0845642	695.5941299	1.275290469	0.350826
SNAPC3	959.2794726	752.2639392	1.275190027	0.350712
MROH2A	11.00642416	11.61757147	1.055526418	0.077963
MTCYBP3	11.00642416	11.61757147	1.055526418	0.077963
ENSG000002	11.00642416	11.61757147	1.055526418	0.077963
ENSG000002	11.00642416	11.61757147	1.055526418	0.077963
ENSG000002	11.00642416	11.61757147	1.055526418	0.077963
PTPN12	2542.483982	2683.659009	1.055526418	0.077963
ACAD9	759.4432672	801.6124312	1.055526418	0.077963
SPATA1	44.02569665	46.47028587	1.055526418	0.077963
SLC22A16	5.503212081	5.808785734	1.055526418	0.077963
SLC17A2	5.503212081	5.808785734	1.055526418	0.077963
ADORA2A	5.503212081	5.808785734	1.055526418	0.077963
SLC34A1	5.503212081	5.808785734	1.055526418	0.077963
REM2	5.503212081	5.808785734	1.055526418	0.077963
GCNT3	5.503212081	5.808785734	1.055526418	0.077963
CFAP107	5.503212081	5.808785734	1.055526418	0.077963
ALPI	5.503212081	5.808785734	1.055526418	0.077963
DMRT2	5.503212081	5.808785734	1.055526418	0.077963
OR4F21	5.503212081	5.808785734	1.055526418	0.077963
RPS3AP5	5.503212081	5.808785734	1.055526418	0.077963
PSG9	5.503212081	5.808785734	1.055526418	0.077963
NKAIN3	5.503212081	5.808785734	1.055526418	0.077963
SDHAP3	5.503212081	5.808785734	1.055526418	0.077963
ATP13A5	5.503212081	5.808785734	1.055526418	0.077963
GGTA1	5.503212081	5.808785734	1.055526418	0.077963
RRM2P3	5.503212081	5.808785734	1.055526418	0.077963
MIR1296	5.503212081	5.808785734	1.055526418	0.077963
DNAJC27-AS	5.503212081	5.808785734	1.055526418	0.077963
PGAM1P6	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ZNRF2P1	5.503212081	5.808785734	1.055526418	0.077963
PHF5AP5	5.503212081	5.808785734	1.055526418	0.077963
MRPS17	5.503212081	5.808785734	1.055526418	0.077963
RPS6P25	5.503212081	5.808785734	1.055526418	0.077963
BTG1-DT	5.503212081	5.808785734	1.055526418	0.077963
RAC1P2	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
DNAJC8P1	5.503212081	5.808785734	1.055526418	0.077963
HMGN1P1	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
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SND1-IT1	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
ENSG000002	5.503212081	5.808785734	1.055526418	0.077963
FMO3	38.52248457	40.66150013	1.055526418	0.077963
THAP2	38.52248457	40.66150013	1.055526418	0.077963
AKR7L	38.52248457	40.66150013	1.055526418	0.077963
UBA5	628.4668197	663.0314002	1.054998258	0.077241
TMEM222	184.9079259	195.0092353	1.054628861	0.076735
VPS37A	472.1755966	497.89592	1.054471946	0.076521
SF3B1	10127.01087	10677.378	1.054346454	0.076349
AP1G2	530.5096447	559.3030835	1.054275053	0.076251
ZNF674	124.372593	131.1125923	1.054191997	0.076138
KMT5B	2714.184199	2861.241887	1.054181175	0.076123
CRAMP1	118.869381	125.3038065	1.054130219	0.076053
CD58	237.7387619	250.6076131	1.054130219	0.076053
HTT	2652.548223	2795.685591	1.053962211	0.075823
ACSF3	199.2162773	209.9461129	1.053860235	0.075684
ZFYVE16	1818.261272	1916.069466	1.053792156	0.07559
FBXO22	332.3940097	350.1867971	1.053529206	0.07523
PSPC1	1117.152053	1176.694024	1.053298001	0.074914
DNAJC8	144.1841565	151.8582556	1.053224288	0.074813
PLCB3	468.8736693	493.7467874	1.053048656	0.074572
PANK1	133.1777324	140.2406841	1.053034029	0.074552
SMG9	330.1927249	347.6973175	1.053013259	0.074524
DCP2	408.3383364	429.8501443	1.052681333	0.074069
TFG	1795.147781	1889.515016	1.052567948	0.073913
RPL35A	1984.458277	2088.673384	1.052515646	0.073842
STXBP4	464.4710997	488.7678282	1.052310528	0.07356
ZMYM4	2681.164926	2821.410213	1.052307594	0.073556
PHF2	1032.402586	1086.242932	1.052150534	0.073341
TSPAN12	141.9828717	149.368776	1.052019685	0.073162
SS18L2	47.3276239	49.789592	1.052019685	0.073162
FKTN	462.2698148	486.2783486	1.051936192	0.073047
RNF152	89.15203572	93.77039827	1.05180322	0.072865
ADORA2B	41.82441182	43.98080627	1.051558273	0.072529
SLC38A2	979.5717505	1029.814728	1.051290758	0.072162
ST3GAL3	78.14561156	82.1528268	1.051278826	0.072145
PDE2A	78.14561156	82.1528268	1.051278826	0.072145
ADORA3	36.32119974	38.17202053	1.050957039	0.071704
PIGM	357.7087853	375.9114196	1.050886741	0.071607
BMS1	869.5075089	913.6390132	1.050754598	0.071426
RPN1	2932.111397	3080.316092	1.050545383	0.071138
ENSG000002	30.81798766	32.3632348	1.050141079	0.070583
ATP8B1-AS1	30.81798766	32.3632348	1.050141079	0.070583
MARK1	703.310504	738.5456147	1.05009894	0.070525
CALM3	1661.970049	1745.1252	1.050034085	0.070436
CASD1	670.2912315	703.6929003	1.049831576	0.070158
TTC19	679.0963709	712.8209922	1.049661024	0.069924
NOLC1	718.7194978	754.3123188	1.049522548	0.069733
PEX11B	81.44753881	85.47213294	1.04941333	0.069583
ACVR1	376.4197064	394.9974299	1.049353748	0.069501
SLC25A40	294.9721676	309.5252969	1.049337297	0.069478
TSPAN11	25.31477557	26.55444907	1.048970353	0.068974

SYNE1	10462.70681	5791.432276	0.553530973	-0.853264
ADA2	250.9464709	138.8965914	0.553490914	-0.853368
EP300	7400.719607	4094.671515	0.553280185	-0.853918
PML	747.3362007	413.3562561	0.55310616	-0.854372
FOXM1	126.5738779	70.00388208	0.553067373	-0.854473
FIGN	518.4025781	286.6825647	0.553011456	-0.854619
ENSG000002	46.22698148	25.55697282	0.552858352	-0.855018
ETV3	693.4047223	383.3545923	0.552858352	-0.855018
EIF4H	1222.813725	675.5930207	0.552490545	-0.855978
ADGRA2	1084.13278	598.9221022	0.552443495	-0.856101
MOV10L1	116.6680961	64.44801842	0.552404818	-0.856202
MAGEH1	374.2184215	206.678128	0.552292768	-0.856495
MRPL42	539.314784	297.794292	0.552171572	-0.856811
KAT6A	6274.762415	3464.636577	0.552154225	-0.856857
RBFA	140.8822293	77.7820912	0.552107186	-0.85698
P2RX7	82.54818122	45.55808199	0.55189686	-0.857529
RDX	1014.792308	560.0310566	0.55186766	-0.857606
TNRC6B	3400.985066	1876.770743	0.551831516	-0.8577
MPHOSPH8	916.8351328	505.5835928	0.551444392	-0.858713
DRAM2	536.0128567	295.5719466	0.551426972	-0.858758
LUC7L3	2426.916528	1337.851969	0.551255864	-0.859206
CHMP2B	346.7023611	191.1217098	0.551255864	-0.859206
MON2	4303.511848	2371.242609	0.551001762	-0.859871
REST	1373.601736	756.7086301	0.550893764	-0.860154
F8	1714.800885	944.4968217	0.550790958	-0.860423
CEP170P1	60.5353329	33.33518194	0.550673142	-0.860732
ABHD14B	84.74946605	46.66925472	0.550673142	-0.860732
CNTD1	48.42826632	26.66814555	0.550673142	-0.860732
CTBP1-DT	36.32119974	20.00110917	0.550673142	-0.860732
CRYGS	36.32119974	20.00110917	0.550673142	-0.860732
RXFP1	24.21413316	13.33407278	0.550673142	-0.860732
MAG	12.10706658	6.667036389	0.550673142	-0.860732
TVP23A	12.10706658	6.667036389	0.550673142	-0.860732
GPD1	12.10706658	6.667036389	0.550673142	-0.860732
FOSL1	12.10706658	6.667036389	0.550673142	-0.860732
ABHD16B	12.10706658	6.667036389	0.550673142	-0.860732
AGER	12.10706658	6.667036389	0.550673142	-0.860732
RPL7AP62	12.10706658	6.667036389	0.550673142	-0.860732
ENSG000002	12.10706658	6.667036389	0.550673142	-0.860732
P2RY11	12.10706658	6.667036389	0.550673142	-0.860732
TNRC18P1	12.10706658	6.667036389	0.550673142	-0.860732
PHF5AP1	12.10706658	6.667036389	0.550673142	-0.860732
ENSG000002	12.10706658	6.667036389	0.550673142	-0.860732
TBL1XR1	5475.696021	3014.61162	0.550544006	-0.86107
MED1	3267.807334	1798.988652	0.55051858	-0.861137
RASA1	1168.882246	643.3690115	0.550413879	-0.861411
SNX13	1625.648849	894.4940488	0.550238171	-0.861872
RPL11	7903.713191	4348.018898	0.550123568	-0.862172
ME2	674.6938012	371.1316923	0.550074258	-0.862302
OSBPL3	270.7580344	148.897146	0.549926972	-0.862688
PRDM8	111.164884	61.11450023	0.54976444	-0.863115
SPATA6L	99.05781747	54.44746384	0.549653377	-0.863406
PARP15	99.05781747	54.44746384	0.549653377	-0.863406
SNRK	657.0835225	361.1311377	0.549597008	-0.863554
UPF2	2333.361923	1282.293332	0.549547552	-0.863684
CCZ1B	335.695937	184.4546734	0.549469484	-0.863889
HOMER2	796.8651094	437.8020562	0.549405478	-0.864057
SVEP1	871.7087937	478.9154472	0.549398435	-0.864075
IKZF5	786.9593277	432.2461925	0.549261159	-0.864436
CDC37L1	487.5845904	267.7926283	0.549222911	-0.864536
ATRIP	137.580302	75.55974574	0.54920468	-0.864584
BLM	62.73661773	34.44635467	0.549062986	-0.864956
ST7	603.1520441	331.129474	0.548998345	-0.865126
QTRT2	327.9914401	180.0099825	0.548825245	-0.865581
KPNA4	1958.042859	1074.504031	0.548764306	-0.865741
FMR1	1019.194877	558.9198839	0.548393537	-0.866717
TARS3	602.0514017	330.0183012	0.548156354	-0.867341
KATNAL1	231.1349074	126.6736914	0.548050889	-0.867618
TRIB3	77.04496914	42.22456379	0.548050889	-0.867618
AQP4	38.52248457	21.1122819	0.548050889	-0.867618
SLC1A5	860.7023695	471.1372381	0.547386942	-0.869367
ZSCAN21	209.1220591	114.4507913	0.547291815	-0.869618
TRAF3IP1	471.0749542	257.7920737	0.547242156	-0.869749
STS	276.2612465	151.1194915	0.547016613	-0.870343
RRS1	184.9079259	101.1167186	0.546849023	-0.870786
CNPY4	105.661672	57.78098203	0.546849023	-0.870786
RNASEH1	52.83083598	28.89049102	0.546849023	-0.870786
MAOA	2542.483982	1390.077087	0.546739762	-0.871074
MAFB	465.5717421	254.4585555	0.546550687	-0.871573
PYROXD1	427.0492575	233.3462736	0.54641536	-0.87193
NFX1	2168.26556	1184.510132	0.546293846	-0.872251
PRICKLE2	294.9721676	161.1200461	0.546221182	-0.872443
CSE1L	1931.627441	1054.502922	0.545914238	-0.873254
RAB1A	1533.194886	836.7130668	0.54573171	-0.873736
SOS1	4488.419774	2446.802355	0.545136702	-0.87531
HOOK3	1681.781612	916.7175034	0.545087125	-0.875441
RIF1	2363.079268	1287.849196	0.544987726	-0.875704
CCDC59	263.0535375	143.3412824	0.544912962	-0.875902
ELAPOR2	291.6702403	158.8977006	0.544785441	-0.87624
NUFIP2	4279.297715	2330.129218	0.544512061	-0.876964
KMT2A	5353.524713	2914.606075	0.5444275	-0.877188
SMAD6	140.8822293	76.67091847	0.544219941	-0.877738
MYSM1	1709.297673	930.0515762	0.544113288	-0.878021
LYST	3940.29985	2143.452199	0.543982001	-0.878369
CUL5	727.5246372	395.5774924	0.543730717	-0.879036
MLLT10	1869.991465	1016.723049	0.543704647	-0.879105
ATP8B4	257.5503254	140.0077642	0.54361323	-0.879348
CASS4	57.23340565	31.11283648	0.54361323	-0.879348
GZMB	57.23340565	31.11283648	0.54361323	-0.879348
POLR2J4	57.23340565	31.11283648	0.54361323	-0.879348
ESPNL	14.30835141	7.77820912	0.54361323	-0.879348
ZNF595	314.5042561	246.6803464	1.274946548	0.350437
EXOC2	1456.345566	1142.285568	1.274940004	0.350429
TRMT61B	434.8291035	341.1300286	1.274672609	0.350127
RTN4IP1	154.3477352	121.1178277	1.274360167	0.349773
ATP5MC2	862.1897682	676.7041934	1.274101412	0.34948
ADRA1B	24.06496947	18.88993643	1.273957144	0.349317
ZNF251	24.06496947	18.88993643	1.273957144	0.349317
NDC1	591.6663183	464.4702017	1.273852049	0.349198
PDS5A	4988.087292	3915.772706	1.273844951	0.34919
AGA	351.0166236	275.5708374	1.273780009	0.349116
SFPQ	5944.877285	4668.036645	1.27352841	0.348831
CPEB4	1519.412383	1193.399514	1.273179992	0.348436
RPL23A	2021.457435	1587.865833	1.273065641	0.348307
PCBP2	1130.223738	887.8270124	1.273022472	0.348258
ERG28	367.6131543	288.9049102	1.272436505	0.347594
ATP6V1H	1255.527545	986.7213855	1.272423567	0.347579
SWAP70	309.5252969	243.3468282	1.271951228	0.347043
GPATCH2	1151.799228	905.6057761	1.271854993	0.346934
MAGI3	941.0232888	740.0410391	1.271582573	0.346625
ATR	3394.820348	2670.148074	1.271397786	0.346415
RUNX1	1221.504657	961.1644127	1.270859221	0.345804
ZNF791	722.7789106	568.9204385	1.270439347	0.345328
AMDHD1	14.10705107	11.11172731	1.269564188	0.344333
FMN2	14.10705107	11.11172731	1.269564188	0.344333
HOXB-AS1	14.10705107	11.11172731	1.269564188	0.344333
PGLS-DT	14.10705107	11.11172731	1.269564188	0.344333
LRRIQ3	42.3211532	33.33518194	1.269564188	0.344333
MEST	703.6929003	554.475193	1.269115209	0.343823
EXOSC5	201.6478476	158.8977006	1.269041949	0.34374
ZNF717	389.1886441	306.6836739	1.269023027	0.343718
TASOR2	4143.323881	3265.736658	1.268725655	0.34338
EIF2AK1	1848.02369	1456.747451	1.268595794	0.343232
ZNF17	266.3743172	210.0116462	1.268378787	0.342986
RPS27AP16	60.57733694	47.78042745	1.267827438	0.342358
UBE2K	725.2683902	572.2539567	1.267389035	0.341859
ZNF585A	654.7331348	516.6953201	1.267155148	0.341593
BICRAL	1661.31272	1311.183823	1.267032654	0.341454
HOXB3	78.83352067	62.22567296	1.266897037	0.341299
CDC23	412.4237871	325.5736103	1.266760493	0.341144
OAZ2	333.5902664	263.3479374	1.266728229	0.341107
TBC1D15	653.0734818	515.5841474	1.26666711	0.341037
CLCN4	208.2864599	164.4535643	1.266536611	0.340889
ROBO4	64.7264696	51.11394565	1.266317221	0.340639
KANSL1L-A	32.3632348	25.55697282	1.266317221	0.340639
SLC5A3	2093.652344	1653.425024	1.266251758	0.340564
APAF1	839.7844518	663.3701207	1.265936505	0.340205
COPS7B	281.3111948	222.2345463	1.265830176	0.340084
AGFG1	2643.827335	2089.004735	1.265591835	0.339812
GTF2I	828.1668803	654.4807388	1.265380066	0.339571
PCBP1	1443.068342	1141.174395	1.264546723	0.33862
AUTS2	1775.828781	1404.522333	1.264364931	0.338413
GFM1	1626.460005	1286.738023	1.264017987	0.338017
ENPP4	1018.197156	805.6002303	1.26389879	0.337881
MPPE1	219.0742048	173.3429461	1.263819554	0.33779
BCAR1	54.7685512	43.33573653	1.263819554	0.33779
RTN4RL2	54.7685512	43.33573653	1.263819554	0.33779
ZNG1DP	36.51236747	28.89049102	1.263819554	0.33779
NBPF2P	36.51236747	28.89049102	1.263819554	0.33779
GNB3	18.25618373	14.44524551	1.263819554	0.33779
RNF122	18.25618373	14.44524551	1.263819554	0.33779
CCDC8	18.25618373	14.44524551	1.263819554	0.33779
INAFM2	18.25618373	14.44524551	1.263819554	0.33779
ZC3H7A	1085.413106	858.9365214	1.263670922	0.337621
MID1IP1	204.9671537	162.2312188	1.263426086	0.337341
TANK	1187.481769	940.0521308	1.263208423	0.337093
TTC9	95.43005134	75.55974574	1.262974755	0.336826
HAX1	560.9627366	444.4690926	1.262096164	0.335822
RGS5	748.5035331	593.3662386	1.261452851	0.335086
PDLIM3	166.7951332	132.229555	1.261405842	0.335033
CDK5RAP1	482.1292159	382.2434196	1.261314626	0.334928
ENDOG	63.06681654	50.00277291	1.261266383	0.334873
UBE2E4P	63.06681654	50.00277291	1.261266383	0.334873
EPHA7	814.0598292	645.591357	1.26095218	0.334514
NOC3L	219.9040313	174.4541188	1.260526451	0.334026
NET1	2512.714743	1993.44388	1.260489331	0.333984
ZNF350	399.1465625	316.6842285	1.26039293	0.333874
PPM1A	1287.060953	1021.16774	1.260381525	0.333861
DCST1-AS1	22.4053164	17.7787637	1.260229157	0.333686
ATPSCKMT	474.6607771	376.687556	1.260091473	0.333528
DDOST	4694.328699	3726.873341	1.259589009	0.332953
PSD3	1963.369578	1558.975342	1.259397455	0.332734
MAP3K6	691.2455023	548.9193293	1.259284316	0.332604
KMT2E	4176.516942	3319.072949	1.2583384	0.33152
UBTF	2199.040313	1747.874707	1.258122396	0.331272
PRDM15	492.0871343	391.1328015	1.258107559	0.331255
SLC9A6	424.8711851	337.7965104	1.25777257	0.330871
TIMM8B	79.6633472	63.33684569	1.25777257	0.330871
MAFF	53.10889814	42.22456379	1.25777257	0.330871
C1orf210	26.55444907	21.1122819	1.25777257	0.330871
TOR1AIP2	1313.615402	1044.502368	1.257647128	0.330727
DNAJC5	296.2480724	235.5686191	1.257587168	0.330658
PAPOLG	433.1694504	344.4635467	1.257518987	0.33058
YIPF5	353.5061032	281.1267011	1.257461856	0.330515
TSTD2	498.7257466	396.6886651	1.257222075	0.33024
RIMKLB	754.3123188	600.033275	1.25711748	0.330119
PCDHGA1	114.5160616	91.11616398	1.256813902	0.329771
PHF20	814.0598292	647.8137024	1.256626444	0.329556
HIF1AN	536.0679406	426.6903289	1.256339561	0.329226
SLC39A8	180.0723577	143.3412824	1.256249106	0.329123
GPR39	61.40716347	48.89160018	1.255985962	0.32882
COL4A6	61.40716347	48.89160018	1.255985962	0.32882
UBLCP1	526.107075	551.8346447	1.048901775	0.06888
USP21	296.07281	310.3551235	1.048239193	0.067968
ZNF37BP	135.3790172	141.9003372	1.048170833	0.067874
PTPN4	516.2012932	541.0468998	1.048131624	0.06782
VPS4B	851.8972302	892.8933499	1.048123316	0.067808
CRIP2	620.7623228	650.5840022	1.048040415	0.067694
BECN1	835.387594	875.4669927	1.04797701	0.067607
ARF5	389.6274154	408.2746544	1.047859155	0.067445
FBXO16	149.6873686	156.8372148	1.047765194	0.067315
TYW5	209.1220591	219.0742048	1.047590129	0.067074
RBM7	104.5610295	109.5371024	1.047590129	0.067074
SLC39A10	1479.263408	1549.286138	1.047336215	0.066725
DNAJC8P2	39.62312699	41.49132667	1.047149224	0.066467
STK32B	19.81156349	20.74566333	1.047149224	0.066467
DPH5-DT	19.81156349	20.74566333	1.047149224	0.066467
ADGRL4	217.9271984	228.2022967	1.047149224	0.066467
KIAA0753	979.5717505	1025.665595	1.047055098	0.066337
RSL1D1	1622.346922	1698.654914	1.047035558	0.06631
MTF1	739.6317038	774.2281556	1.046775242	0.065952
BCLAF1	3952.406917	4136.685269	1.046624337	0.065744
NT5C3A	147.4860838	154.3477352	1.04652406	0.065605
CHD1	1997.665986	2090.333038	1.046387661	0.065417
SUPT7L	695.6060071	727.7578698	1.04622137	0.065188
RSKR	156.2912231	163.4758271	1.045969337	0.064841
SH3BGRL	346.7023611	362.6341951	1.045952482	0.064817
ARAP1	955.3576173	999.1111462	1.045798064	0.064604
PEX12	102.3597447	107.0476228	1.045798064	0.064604
LRRC75A	68.23982981	71.36508187	1.045798064	0.064604
BAZ1B	4365.147823	4564.87576	1.045755137	0.064545
BNC2	705.5117888	737.7157882	1.045646295	0.064395
CDK5RAP1	461.1691724	482.1292159	1.045449793	0.064124
RNF145	839.7901636	877.9564723	1.045447435	0.064121
SPTAN1	5246.762398	5485.153386	1.045435827	0.064105
PDHX	358.8094277	375.0815931	1.04535044	0.063987
PSMD13	407.237694	425.7010116	1.045337939	0.063969
TOGARAM1	1090.736635	1140.181657	1.04533177	0.063961
ENSG000002	48.42826632	50.61941854	1.045245316	0.063842
UAP1	647.1777408	676.3086247	1.045012185	0.06352
ATP1A1	6958.261356	7270.940085	1.04493633	0.063415
DHDDS	231.1349074	241.4795212	1.04475574	0.063166
TRIM66	465.5717421	486.2783486	1.044475651	0.062779
SERF2	1199.700234	1253.038065	1.044459299	0.062756
IDE	982.8736778	1026.495422	1.044381842	0.062649
COG4	297.1734524	310.3551235	1.044356826	0.062615
IRF3	340.0985066	355.1657563	1.044302605	0.06254
HSD17B14	85.85010847	89.6212656	1.043927226	0.062021
NEK8	71.54175706	74.684388	1.043927226	0.062021
PTGFR	14.30835141	14.9368776	1.043927226	0.062021
LRRC43	14.30835141	14.9368776	1.043927226	0.062021
SNORD89	14.30835141	14.9368776	1.043927226	0.062021
NCK1-DT	14.30835141	14.9368776	1.043927226	0.062021
CPP	14.30835141	14.9368776	1.043927226	0.062021
ENSG000002	14.30835141	14.9368776	1.043927226	0.062021
FRG1GP	14.30835141	14.9368776	1.043927226	0.062021
C1orf131	237.7387619	248.1181335	1.043658726	0.06165
TRMT2B	412.7409061	430.6799708	1.043463259	0.06138
P2RX4	312.5824462	326.1218276	1.043314593	0.061174
TLK1	3504.445453	3656.215706	1.043307923	0.061165
GGA2	817.7773153	853.0616763	1.043146661	0.060942
PEX19	132.07709	137.7512045	1.042960627	0.060685
ADAMTS7	66.03854498	68.87560227	1.042960627	0.060685
SLC25A22	51.73019357	53.93872467	1.04269327	0.060315
SEMA4D	952.0556901	992.4725339	1.042452184	0.059981
BRD9	529.4090022	551.8346447	1.042359768	0.059853
ACTBP2	37.42184215	39.00184707	1.042221463	0.059662
SNX5	607.5546138	633.157645	1.042141119	0.059551
SAYSD1	247.6445437	258.0760519	1.042122908	0.059525
ATP11A	812.2741032	846.423064	1.042041179	0.059412
TEPSIN	97.95717505	102.0686636	1.041972306	0.059317
NUFIP1	121.0706658	126.1336331	1.041818282	0.059104
SMARCE1	199.2162773	207.4566333	1.041363869	0.058474
TNFRSF21	522.8051477	544.3662059	1.041241098	0.058304
PARS2	92.45396297	96.25987787	1.041165514	0.058199
SMARCD2	604.2526865	629.0085123	1.040969327	0.057928
SMG6	2347.670274	2443.839141	1.040963532	0.05792
PHB2	774.8522611	806.5913904	1.040961524	0.057917
FNIP2	807.8715336	840.6142783	1.040529643	0.057318
GPN2	237.7387619	247.2883069	1.040168229	0.056817
RPS3	4027.250601	4188.96434	1.040154874	0.056798
RAD51-AS1	31.91863007	33.19306133	1.039927505	0.056483
SEC14L1	1631.152061	1696.165434	1.039857334	0.056386
LFNG	241.0406892	250.6076131	1.039690079	0.056154
RSBN1	823.2805274	855.5511559	1.039197609	0.05547
SRCAP	221.2291257	229.8619497	1.039022095	0.055226
COMMD6	221.2291257	229.8619497	1.039022095	0.055226
ZNF396	49.52890873	51.44924507	1.03877203	0.054879
TMEM245	1733.511806	1800.723577	1.03877203	0.054879
CCDC88C	1911.815877	1985.774894	1.03868522	0.054759
ARHGAP32	1947.036434	2022.287262	1.038648906	0.054708
RPS13	440.2569665	457.2344199	1.0385626	0.054588
NXN	350.0042884	363.4640216	1.038455909	0.05444
DNAI7	233.3361923	242.3093477	1.038455909	0.05444
SHPRH	2046.094252	2124.355925	1.0382493	0.054153
ZNF407	2035.087828	2112.738354	1.03815586	0.054023
AMOT	505.1948691	524.4503691	1.038114995	0.053966
THADA	2292.638153	2379.942498	1.038080298	0.053918
CDC23	397.3319123	412.4237871	1.037983042	0.053783
FAM13C	642.7751711	667.1805328	1.037968737	0.053763
ABHD14B	84.74946605	87.96161254	1.037901672	0.05367
LONRF2	351.1049308	364.2938481	1.037564033	0.0532
CDK2AP1	269.657392	279.6515417	1.037062399	0.052503

SERP2	14.30835141	7.77820912	0.54361323	-0.879348
SRP9P1	14.30835141	7.77820912	0.54361323	-0.879348
ENSG000002	14.30835141	7.77820912	0.54361323	-0.879348
CENPC	1101.743059	598.9221022	0.54361323	-0.879348
MBD5	1225.015009	665.5924661	0.543334131	-0.880088
ZNF740	274.0599617	148.897146	0.543301346	-0.880175
SERPINB9	245.4432588	133.3407278	0.543264983	-0.880272
GUF1	726.4239948	394.4663197	0.543024904	-0.88091
IL17RB	145.284799	78.89326393	0.543024904	-0.88091
MRPL22	145.284799	78.89326393	0.543024904	-0.88091
CEP162	466.6723845	253.3473828	0.542880597	-0.881293
BBIP1	335.695937	182.232328	0.54284937	-0.881376
RAD51C	540.4154264	293.3496011	0.542822404	-0.881448
NOLC1	718.7194978	390.0216287	0.542661817	-0.881875
API5	1056.61672	573.3651294	0.542642492	-0.881926
PARP16	73.74304189	40.00221833	0.542454139	-0.882427
CFAP298	73.74304189	40.00221833	0.542454139	-0.882427
POM121	1524.389747	826.7125122	0.542323585	-0.882774
PSMD6	711.0150009	385.5769378	0.542290862	-0.882861
AKNA	979.5717505	531.1405656	0.542217112	-0.883057
SNX1	1606.937928	871.1594214	0.542123878	-0.883306
SAMM50	744.0342734	403.3557015	0.542119787	-0.883316
SEM1	705.5117888	382.2434196	0.541795935	-0.884179
UBE2B	270.7580344	146.6748005	0.541719107	-0.884383
RASA4B	45.12633907	24.44580009	0.541719107	-0.884383
ENSG000002	45.12633907	24.44580009	0.541719107	-0.884383
SH3BGRL	346.7023611	187.7881916	0.541640937	-0.884591
UBA7	422.6466879	228.9015827	0.541590859	-0.884725
PPM1F	287.2676707	155.5641824	0.54153042	-0.884886
NAV2	847.4946605	458.9143381	0.541495256	-0.884979
RPS20	1196.398307	647.8137024	0.541469926	-0.885047
PHF14	1508.980753	816.7119576	0.541234178	-0.885675
TRIP4	320.2869431	173.3429461	0.541211404	-0.885736
BASP1	275.1606041	148.897146	0.54112814	-0.885958
ZNF589	336.7965794	182.232328	0.541075353	-0.886099
GLRX2	123.2719506	66.67036389	0.540839693	-0.886727
KMO	30.81798766	16.66759097	0.540839693	-0.886727
ZNF511	30.81798766	16.66759097	0.540839693	-0.886727
ZNF84	1165.580319	630.0349387	0.540533268	-0.887545
KLHL41	78.14561156	42.22456379	0.540331862	-0.888082
TES	359.9100701	194.455228	0.540288378	-0.888198
MTBP	203.618847	110.0061004	0.540255001	-0.888288
NPAS3	220.1284833	118.8954823	0.540118573	-0.888652
SSB	773.7516187	417.800947	0.539967784	-0.889055
PPIL2	808.972176	436.6908835	0.539809522	-0.889478
IFT74	413.8415485	223.345719	0.53968897	-0.8898
GTF2F2	191.5117804	103.339064	0.539596383	-0.890047
TXNL4B	63.83726015	34.44635467	0.539596383	-0.890047
ZNF644	4158.227049	2243.457745	0.539522666	-0.890245
ZRANB2	1530.993601	825.6013395	0.539258517	-0.890951
FBLN1	7160.77956	3861.325242	0.539232525	-0.891021
CDC123	677.9957284	365.5758286	0.539200784	-0.891105
RPRD1B	824.3811698	444.4690926	0.539154834	-0.891228
FAM111A	2376.286977	1281.182159	0.539152961	-0.891233
MIOS	1681.781612	906.7169489	0.53914072	-0.891266
MFF	1214.008585	654.4807388	0.539107175	-0.891356
EBF1	276.2612465	148.897146	0.538972251	-0.891717
ODF2	1284.4497	692.2606117	0.538955018	-0.891763
AGPS	587.7430503	316.6842285	0.538814076	-0.892141
TRHDE	212.4239863	114.4507913	0.538784689	-0.892219
ABTB3	278.4625313	150.0083187	0.538701986	-0.892441
CNIH4	327.9914401	176.6764643	0.538661815	-0.892548
VKORC1L1	429.2505424	231.1239281	0.538435961	-0.893153
PDLIM2	33.01927249	17.7787637	0.538435961	-0.893153
PSMC3IP	33.01927249	17.7787637	0.538435961	-0.893153
CLXN	16.50963624	8.889381852	0.538435961	-0.893153
PTPRN	16.50963624	8.889381852	0.538435961	-0.893153
ADAD1	16.50963624	8.889381852	0.538435961	-0.893153
BAALC	16.50963624	8.889381852	0.538435961	-0.893153
OR1A1	16.50963624	8.889381852	0.538435961	-0.893153
LVRN	16.50963624	8.889381852	0.538435961	-0.893153
MROH7	16.50963624	8.889381852	0.538435961	-0.893153
DPY19L1P2	16.50963624	8.889381852	0.538435961	-0.893153
ENSG000002	49.52890873	26.66814555	0.538435961	-0.893153
MMRN2	82.54818122	44.44690926	0.538435961	-0.893153
SCRN1	1011.490381	544.4746384	0.538289487	-0.893546
ZHX1	2368.58248	1274.515123	0.538091932	-0.894075
ACP1	417.1434758	224.4568918	0.538080792	-0.894105
LIAS	183.8072835	98.8943731	0.53803294	-0.894234
WDR43	1161.177749	624.4790751	0.537798003	-0.894864
AMMECR1L	219.0278408	117.7843095	0.537759534	-0.894967
TRIM44	758.3426248	407.8003924	0.53775217	-0.894987
EPHA4	675.7944436	363.3534832	0.537668646	-0.895211
DIS3	1403.319081	754.4862846	0.537644143	-0.895276
ZNF782	930.0428418	500.0277291	0.537639458	-0.895289
CYTH4	186.0085684	100.0055458	0.537639458	-0.895289
IL6R	169.4989321	91.11616398	0.537561876	-0.895497
CSTF1	661.4860922	355.5752741	0.537540061	-0.895556
GORAB	155.1905807	83.33795486	0.53700395	-0.896995
ZSCAN20	155.1905807	83.33795486	0.53700395	-0.896995
F2RL1	206.9207743	111.1172731	0.53700395	-0.896995
PLXDC2	1918.419732	1030.057122	0.536930008	-0.897194
C12orf29	277.3618889	148.897146	0.536833473	-0.897453
RAB6D	138.6809445	74.44857301	0.536833473	-0.897453
CIITA	608.6552562	326.684783	0.536732049	-0.897726
CHCHD4	86.95075089	46.66925472	0.536732049	-0.897726
ALAS1	559.1263475	300.0166375	0.536581112	-0.898132
NHERF1	683.4989405	366.6870014	0.536485106	-0.89839
ZBTB47	490.8865177	263.3479374	0.53647417	-0.898419
HMGB1P6	35.22055732	18.88993643	0.536332695	-0.8988
PCF11	2835.254864	1520.084297	0.536136739	-0.899327
TLE6	92.1107452	73.33740027	1.255985962	0.32882
RBM26	2123.526099	1691.204897	1.255629109	0.32841
EAPP	975.0461767	776.7097393	1.255354642	0.328095
CCHCR1	65.55629614	52.22511838	1.255263715	0.32799
MED19	200.8180211	160.0088733	1.255043029	0.327737
SMAP1	510.343318	406.6892197	1.254872992	0.327541
ACTR10	1248.888933	995.6107674	1.254394763	0.326991
PRNP	539.3872467	430.0238471	1.254319383	0.326905
TP53BP1	3230.514694	2576.809564	1.253687793	0.326178
ZNF385A	195.0092353	155.5641824	1.253561278	0.326033
SETDB2	281.3111948	224.4568918	1.253297204	0.325729
CREM	324.4621745	258.9032464	1.253217868	0.325637
AHCY	989.9830543	790.0438121	1.253073613	0.325471
TMED5	825.6774007	658.9254297	1.253066528	0.325463
RPS13P2	43.15097974	34.44635467	1.252700907	0.325042
TRAM1	1814.830628	1448.969242	1.25249769	0.324808
SRGAP2	1192.460728	952.2750308	1.252223034	0.324492
KMT2A	3649.577094	2914.606075	1.252168218	0.324428
B3GNT8	146.0494699	116.6731368	1.251783177	0.323985
SPIRE1	639.7962572	511.1394565	1.251705868	0.323896
TPGS2	750.9930127	600.033275	1.25158561	0.323757
LSG1	942.6829419	753.3751119	1.251279644	0.323404
SKAP2	582.5382264	465.5813745	1.251206037	0.323319
UBE2E1	920.2776255	735.5963482	1.251063342	0.323155
MTFMT	111.1967555	88.89381852	1.250894127	0.32296
PPM1H	401.6360421	321.1289194	1.25070032	0.322736
CMC1	175.0933985	140.0077642	1.250597776	0.322618
KIF1B	3475.313522	2779.043001	1.25054327	0.322555
ZNF696	179.2425312	143.3412824	1.250459939	0.322459
NPR2	119.4950208	95.5608549	1.250459939	0.322459
TUBA1C	2407.326773	1925.662344	1.250129225	0.322077
ZNF814	416.5729197	333.3518194	1.249649456	0.321523
HAGH	497.0660935	397.7998379	1.2495382	0.321395
DMAC2L	309.5252969	247.7915191	1.249135959	0.320931
EDRF1	1093.711371	875.6041124	1.249093461	0.320881
MKKS	941.0232888	753.3751119	1.249076687	0.320862
H3C6	156.8372148	125.5625187	1.249076687	0.320862
UBAP1	1063.007789	851.1583123	1.248895504	0.320653
MTF1	774.2281556	620.0343841	1.24868584	0.320411
PFKFB3	262.2251845	210.0116462	1.248622109	0.320337
VTI1A	363.4640216	291.1272556	1.248471294	0.320163
TCTN2	776.7176352	622.2567296	1.248226975	0.31988
UBE2J1	611.5821551	490.0271746	1.248057632	0.319685
STAU1	2432.221569	1948.996971	1.247935018	0.319543
USP42	585.027706	468.9148927	1.24762023	0.319179
POLR2L	353.5061032	283.3490465	1.24759941	0.319155
RIN3	243.9690008	195.5664007	1.24749957	0.319039
ZNF823	378.4008992	303.3501557	1.247406313	0.318931
UPRT	256.4163988	205.5669553	1.247361953	0.31888
PTPRM	1863.790394	1494.527324	1.247076828	0.31855
CMIP	612.4119816	491.1383473	1.246923571	0.318373
PGM1	1115.286861	894.4940488	1.246835418	0.318271
GPR52	355.9955828	285.571392	1.246608004	0.318008
SPTLC2	1370.873433	1100.061004	1.246179465	0.317512
TARS2	350.1867971	281.1267011	1.245654702	0.316904
AARS1	1763.381383	1415.63406	1.245647751	0.316896
SRSF4	1718.570751	1380.076532	1.245272063	0.316461
CHD8	7416.159729	5955.885841	1.245181645	0.316356
TRAM1L1	49.789592	40.00221833	1.244670773	0.315764
RABGGTA	12.447398	10.00055458	1.244670773	0.315764
DDX25	12.447398	10.00055458	1.244670773	0.315764
ENSG000002	12.447398	10.00055458	1.244670773	0.315764
PCAT7	37.342194	30.00166375	1.244670773	0.315764
ASB16-AS1	253.0970927	203.3446099	1.244670773	0.315764
IL17RE	58.08785734	46.66925472	1.244670773	0.315764
VKORC1	29.04392867	23.33462736	1.244670773	0.315764
FAM222A	199.158368	160.0088733	1.244670773	0.315764
ASIC2	20.74566333	16.66759097	1.244670773	0.315764
CAPN9	20.74566333	16.66759097	1.244670773	0.315764
STK32B	20.74566333	16.66759097	1.244670773	0.315764
GBP5	20.74566333	16.66759097	1.244670773	0.315764
YTHDF2P1	16.59653067	13.33407278	1.244670773	0.315764
CDK15	8.298265334	6.667036389	1.244670773	0.315764
ALPP	8.298265334	6.667036389	1.244670773	0.315764
CLECL1P	8.298265334	6.667036389	1.244670773	0.315764
LRRC70	8.298265334	6.667036389	1.244670773	0.315764
ENSG000002	8.298265334	6.667036389	1.244670773	0.315764
MIR646HG	8.298265334	6.667036389	1.244670773	0.315764
FAM204BP	8.298265334	6.667036389	1.244670773	0.315764
PSME2P1	8.298265334	6.667036389	1.244670773	0.315764
ENSG000002	8.298265334	6.667036389	1.244670773	0.315764
ENSG000002	8.298265334	6.667036389	1.244670773	0.315764
MRPL20-DT	8.298265334	6.667036389	1.244670773	0.315764
ENSG000002	8.298265334	6.667036389	1.244670773	0.315764
IGFLR1	4.149132667	3.333518194	1.244670773	0.315764
EPO	4.149132667	3.333518194	1.244670773	0.315764
ANGPTL6	4.149132667	3.333518194	1.244670773	0.315764
KRT7	4.149132667	3.333518194	1.244670773	0.315764
AHSG	4.149132667	3.333518194	1.244670773	0.315764
JAKMIP1	4.149132667	3.333518194	1.244670773	0.315764
GPR182	4.149132667	3.333518194	1.244670773	0.315764
GARIN2	4.149132667	3.333518194	1.244670773	0.315764
OLIG3	4.149132667	3.333518194	1.244670773	0.315764
OR52N2	4.149132667	3.333518194	1.244670773	0.315764
C16orf54	4.149132667	3.333518194	1.244670773	0.315764
MEIS3P2	4.149132667	3.333518194	1.244670773	0.315764
ENSG000002	4.149132667	3.333518194	1.244670773	0.315764
IZUMO3	4.149132667	3.333518194	1.244670773	0.315764
ENSG000002	4.149132667	3.333518194	1.244670773	0.315764
C2orf74	4.149132667	3.333518194	1.244670773	0.315764
TFAP2E-AS1	4.149132667	3.333518194	1.244670773	0.315764
AHNAK2	1495.773044	1550.945791	1.036885774	0.052257
SDSL	70.44111464	73.02473494	1.036677732	0.051967
PI4K2A	35.22055732	36.51236747	1.036677732	0.051967
ERICH2	35.22055732	36.51236747	1.036677732	0.051967
ZNG1DP	35.22055732	36.51236747	1.036677732	0.051967
RABAC1	17.61027866	18.25618373	1.036677732	0.051967
MDFI	17.61027866	18.25618373	1.036677732	0.051967
USHBP1	8.80513933	9.128091867	1.036677732	0.051967
HTR1B	8.80513933	9.128091867	1.036677732	0.051967
TLX3	8.80513933	9.128091867	1.036677732	0.051967
MROH2B	8.80513933	9.128091867	1.036677732	0.051967
RBM34	8.80513933	9.128091867	1.036677732	0.051967
PCMTD1P3	8.80513933	9.128091867	1.036677732	0.051967
ASH1L-AS1	8.80513933	9.128091867	1.036677732	0.051967
ENSG000002	8.80513933	9.128091867	1.036677732	0.051967
RARA-AS1	8.80513933	9.128091867	1.036677732	0.051967
ENSG000002	8.80513933	9.128091867	1.036677732	0.051967
USH2A	88.0513933	91.28091867	1.036677732	0.051967
PET100	26.41541799	27.3842756	1.036677732	0.051967
TNPO1	1755.524654	1819.809588	1.036618645	0.051885
ANKRD40	799.0663942	828.1668803	1.036418108	0.051606
ELP3	543.7173537	563.4522162	1.036296179	0.051436
DNAAF11	411.6402637	426.5308382	1.036173756	0.051266
SIRT5	179.4047139	185.8811435	1.036099551	0.051163
SH3BP5L	179.4047139	185.8811435	1.036099551	0.051163
CHERP	803.4689639	832.316013	1.035903128	0.050889
INPP5B	435.8543969	451.4256342	1.035725778	0.050642
SERPINA1	91.35332055	94.6002248	1.035542269	0.050386
PUM1	4117.503279	4263.648728	1.035493706	0.050319
RYK	1849.079259	1914.409812	1.035331397	0.050093
MKKS	909.1306359	941.0232888	1.035080385	0.049743
INTS6	882.7152179	913.6390132	1.035032584	0.049676
SPACA6	56.13276323	58.08785734	1.034829821	0.049394
NGRN	56.13276323	58.08785734	1.034829821	0.049394
ELF3-AS1	56.13276323	58.08785734	1.034829821	0.049394
LAP3	534.9122143	553.4942978	1.034738566	0.049266
HERC2	996.0813867	1030.644554	1.03469914	0.049211
AP2M1	1939.331938	2006.520558	1.03464524	0.049136
ZNF487	47.3276239	48.95976547	1.034486024	0.048914
TRAF3IP1	471.0749542	487.1081751	1.034035392	0.048286
SNIP1	456.7666028	472.1712975	1.033725528	0.047853
ZNF354B	341.1991491	352.6762767	1.033637621	0.04773
ZNF512	195.9143501	202.4776741	1.033500987	0.04754
EXD3	148.5867262	153.5179087	1.033187234	0.047102
SPPL2B	169.4989321	175.0933985	1.03300591	0.046849
EPRS1	4843.927274	5003.02417	1.032844609	0.046623
CCDC112	482.0813783	497.89592	1.032804714	0.046567
NOC2L	342.2997915	353.5061032	1.032738296	0.046475
VASP	324.6895128	335.2499195	1.032524631	0.046176
EIF4E	992.7794595	1024.835769	1.032289457	0.045848
PCBP1-AS1	92.45396297	95.43005134	1.032189949	0.045708
CCDC14	3257.901552	3361.627287	1.031838204	0.045217
ITPRID1	20.91220591	21.57548987	1.031717551	0.045048
MFSD11	242.1413316	249.7777865	1.031537181	0.044796
STAU1	2358.676698	2432.221569	1.031180565	0.044297
MACF1	19591.43501	20198.80765	1.031001947	0.044047
RANBP3	1024.69809	1056.369177	1.030907726	0.043915
PEPD	558.0257051	575.0697876	1.030543544	0.043405
PREP	483.1820208	497.89592	1.030452084	0.043277
SWI5	198.1156349	204.1373272	1.030394836	0.043197
EXOG	180.5053563	185.8811435	1.029781871	0.042339
MTX3	282.865101	291.2691132	1.029710318	0.042239
SOCS3	114.4668113	117.8353677	1.029428237	0.041843
KIN	367.614567	378.4008992	1.029341417	0.041722
FNDC3B	3724.573937	3833.798584	1.029325407	0.041699
AQR	1538.698098	1582.479199	1.028453341	0.040476
ATF6	1754.424012	1804.042884	1.028282144	0.040236
ACTN2	24.21413316	24.894796	1.028110147	0.039995
ALOX15	12.10706658	12.447398	1.028110147	0.039995
SGMS1-AS1	12.10706658	12.447398	1.028110147	0.039995
ENSG000002	12.10706658	12.447398	1.028110147	0.039995
ENSG000002	12.10706658	12.447398	1.028110147	0.039995
PROCA1	36.32119974	37.342194	1.028110147	0.039995
CCDC121	254.2483982	261.395358	1.028110147	0.039995
STK11	691.2034374	710.3315126	1.027673582	0.039382
CHPF	827.6830971	850.5721967	1.027654424	0.039355
CSNK2A3	540.4154264	555.1539508	1.027272583	0.038819
CFDP1	252.0471133	258.9058784	1.027212234	0.038734
NR2F6	163.99572	168.4547863	1.027190138	0.038703
KPTN	75.94432672	78.00369414	1.027116804	0.0386
DUSP3	395.1306275	405.7851748	1.02696462	0.038386
DNTTIP1	179.4047139	184.2214904	1.026848662	0.038224
STARD9	1018.094235	1044.751606	1.026183598	0.037289
RGS1	67.13918739	68.87560227	1.025862912	0.036838
SDC3	552.522493	566.7715223	1.025789048	0.036734
VSIG4	244.3426164	250.6076131	1.025640213	0.036525
PHOSPHO2	177.203429	181.7320108	1.025555836	0.036406
TMEM138	110.0642416	112.8564085	1.02536852	0.036143
SNRNP27	125.4732355	128.6231127	1.025103977	0.03577
TCF7	168.3982897	172.6039189	1.024974299	0.035588
TSR2	499.691657	512.0029711	1.024637822	0.035114
BACH1	1309.764475	1341.829504	1.024481523	0.034894
ZNF688	58.33404806	59.7475104	1.024230486	0.03454
C1orf52	190.411138	195.0092353	1.024148258	0.034425
MTMR10	73.74304189	75.51421454	1.024018166	0.034241
ATOX1	166.1970049	170.1144393	1.023571029	0.033611
PHF14	1508.980753	1544.307179	1.023410786	0.033385
C5	431.4518272	441.4677158	1.023214384	0.033108
MCMDC2	61.63597531	63.06681654	1.023214384	0.033108
PELATON	15.40899383	15.76670413	1.023214384	0.033108
BACH1-IT2	15.40899383	15.76670413	1.023214384	0.033108

CSTF2T	514.0000084	275.5708374	0.536130025	-0.899345
NPIPB3	478.7794511	256.680901	0.536115116	-0.899385
ADPRM	497.4903722	266.6814555	0.536053501	-0.899551
COG3	1167.781604	625.5902478	0.535708257	-0.900481
PRR5L	53.9314784	28.89049102	0.535688838	-0.900533
TXNDC16	548.1199233	293.3496011	0.535192371	-0.901871
FRS2	536.0128567	286.6825647	0.534842702	-0.902813
ZNF678	409.4389789	218.9010281	0.534636513	-0.90337
PRR11	37.42184215	20.00110917	0.534476873	-0.903801
NDST4	37.42184215	20.00110917	0.534476873	-0.903801
RPS3AP6	37.42184215	20.00110917	0.534476873	-0.903801
LINC00294	37.42184215	20.00110917	0.534476873	-0.903801
SETD9	18.71092108	10.00055458	0.534476873	-0.903801
CST1	18.71092108	10.00055458	0.534476873	-0.903801
HULC	18.71092108	10.00055458	0.534476873	-0.903801
RSPH1	243.241974	130.0072096	0.534476873	-0.903801
MRNIP	56.13276323	30.00166375	0.534476873	-0.903801
DDX6	2960.7281	1582.30997	0.534432719	-0.90392
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NR2F1	773.7516187	413.3562561	0.534223446	-0.904485
NKX3-1	2422.513958	1293.405059	0.533910261	-0.905331
EIF2AK1	2728.49255	1456.747451	0.533901935	-0.905353
RSRC2	1812.75806	967.8314491	0.533899956	-0.905359
GCC2	1821.563199	972.27614	0.533759213	-0.905739
UBAP2L	6158.094319	3285.737767	0.533564054	-0.906267
ZCCHC2	1085.233422	578.9209931	0.533452971	-0.906567
MIS18BP1	1008.188453	537.807602	0.533439557	-0.906603
TRPC6	58.33404806	31.11283648	0.533356376	-0.906828
STAT6	937.7473387	500.0277291	0.533222232	-0.907191
EID1	906.929351	483.3601382	0.532963386	-0.907892
IMPACT	335.695937	178.8988098	0.532919199	-0.908011
ENSG000002	39.62312699	21.1122819	0.532827253	-0.90826
DTWD2	118.869381	63.33684569	0.532827253	-0.90826
ELF1	1710.398315	911.1616398	0.532718977	-0.908553
RHEB	258.6509678	137.7854187	0.532707919	-0.908583
ATP5F1E	1374.702378	732.26283	0.532670083	-0.908686
CLMN	2711.982914	1444.524551	0.532645152	-0.908753
TRAM1	2720.788053	1448.969242	0.532554985	-0.908998
PPM1H	603.1520441	321.1289194	0.532417858	-0.909369
YAF2	202.5182046	107.7837549	0.532217611	-0.909912
GAS7	244.3426164	130.0072096	0.532069319	-0.910314
ZNF217	6276.9637	3339.074058	0.531956885	-0.910619
ZNF354A	534.9122143	284.4602192	0.531788603	-0.911075
ZNF106	4947.387661	2630.145855	0.531623159	-0.911524
DYRK1A	2659.152078	1413.411714	0.531527221	-0.911785
EFNB1	125.4732355	66.67036389	0.531351277	-0.912262
HSPE1	20.91220591	11.11172731	0.531351277	-0.912262
EVI2A	20.91220591	11.11172731	0.531351277	-0.912262
GPC5	20.91220591	11.11172731	0.531351277	-0.912262
CXCL17	62.73661773	33.33518194	0.531351277	-0.912262
MYO1F	545.9186385	290.0160829	0.53124415	-0.912553
ENG	1389.010729	737.8186937	0.531182861	-0.912719
MAP4K5	1939.331938	1030.057122	0.531140184	-0.912835
TP53INP2	299.3747372	158.8977006	0.530765228	-0.913854
MMP25-AS1	129.8758051	68.89270935	0.530450682	-0.914709
HMGN2P46	64.93790256	34.44635467	0.530450682	-0.914709
CSPP1	1523.289104	807.8225758	0.530314681	-0.915079
FICD	108.9635992	57.78098203	0.53027784	-0.91518
NOP58	1089.635992	577.8098203	0.53027784	-0.91518
LINS1	479.8800935	254.4585555	0.530254451	-0.915243
XRCC6	2250.813741	1193.399514	0.530208027	-0.91537
MPHOSPH9	808.972176	428.9126743	0.530194594	-0.915406
KLHL2	465.5717421	246.6803464	0.529843897	-0.916361
MICAL3	1732.411163	917.8286762	0.529798408	-0.916485
CCNH	444.6595362	235.5686191	0.529773006	-0.916554
BAMBI	268.5567496	142.2301096	0.529609142	-0.917
GVQW3	113.3661689	60.0033275	0.529287777	-0.917876
ZMYM2	3856.651027	2040.113135	0.528985672	-0.918699
UFSP2	621.8629652	328.9071285	0.528906121	-0.918916
NCOA4	1939.331938	1025.612431	0.528848317	-0.919074
TAGLN	2517.169206	1331.184932	0.528842054	-0.919091
SELE	23.11349074	12.22290005	0.528821033	-0.919149
DNAJC12	23.11349074	12.22290005	0.528821033	-0.919149
PRKCB	208.0214167	110.0061004	0.528821033	-0.919149
CENPU	92.45396297	48.89160018	0.528821033	-0.919149
BAG2	187.1092108	98.8943731	0.528538241	-0.91992
SHROOM4	212.4239863	112.2284459	0.52832285	-0.920508
PGBD2	309.280519	163.3423915	0.528136696	-0.921017
CTDSPL2	505.1948691	266.6814555	0.527878393	-0.921722
TFRC	1061.019289	560.0310566	0.527823634	-0.921872
SLC9A2	844.1927333	445.5802653	0.527818172	-0.921887
ZNF789	313.6830886	165.564737	0.527808935	-0.921912
CHAF1B	170.5995745	90.00499125	0.527580397	-0.922537
ARID4A	1004.886526	530.0293929	0.527451985	-0.922888
SEC22B	1816.059987	957.8308945	0.527422498	-0.922969
RNF41	845.2933757	445.5802653	0.527130909	-0.923767
ANOS1	605.353329	318.9065739	0.526810639	-0.924644
CLNK	25.31477557	13.33407278	0.526730831	-0.924862
KRT4	25.31477557	13.33407278	0.526730831	-0.924862
DRD1	25.31477557	13.33407278	0.526730831	-0.924862
ZNF639	485.3833056	255.5697282	0.526531764	-0.925408
FBXO11	4096.591073	2156.786272	0.526483174	-0.925541
VPS29	1821.563199	958.9420672	0.526439087	-0.925661
ZNG1B	641.6745287	337.7965104	0.52642967	-0.925687
SMYD2	804.5696063	423.3568107	0.52619041	-0.926343
CDK2	234.4368347	123.3401732	0.526112602	-0.926556
MTRFR	78.14561156	41.11339106	0.526112602	-0.926556
STX7	606.4539714	318.9065739	0.52585454	-0.927264
CPSF4	158.4925079	83.33795486	0.525816368	-0.927369
KCNQ4	52.83083598	27.77931829	0.525816368	-0.927369
APBB1IP	213.5246288	112.2284459	0.525599536	-0.927964
SNORA58	4.149132667	3.333518194	1.244670773	0.315764
ENSG000002	4.149132667	3.333518194	1.244670773	0.315764
PHLDA1-AS	4.149132667	3.333518194	1.244670773	0.315764
SLC25A3P2	4.149132667	3.333518194	1.244670773	0.315764
COILP1	4.149132667	3.333518194	1.244670773	0.315764
C16orf95	4.149132667	3.333518194	1.244670773	0.315764
ENSG000002	4.149132667	3.333518194	1.244670773	0.315764
ZNF132-DT	4.149132667	3.333518194	1.244670773	0.315764
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ZNF652	1367.554127	1098.949831	1.24441907	0.315472
SF3B2	2986.545694	2400.1331	1.244325031	0.315363
NGLY1	936.8741562	753.3751119	1.243569294	0.314487
PAAF1	473.8309506	381.1322469	1.243219262	0.314081
TMEM181	1087.072759	874.4929396	1.243089234	0.31393
RALGAPB	4066.97984	3272.403694	1.242811163	0.313607
PPRC1	632.3278184	508.917111	1.242496675	0.313242
MTERF1	143.5599903	115.5619641	1.242277175	0.312987
ZNF384	1382.491005	1113.395077	1.241689525	0.312304
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NUDT6	81.32300027	65.55919115	1.24045155	0.310865
CDC40	308.6954704	248.9026918	1.24022552	0.310602
CSTF2	436.4887566	352.2417559	1.239173804	0.309379
PSMG4	181.7320108	146.6748005	1.239013178	0.309192
CTTNBP2	173.4337455	140.0077642	1.238743769	0.308878
IL6R	112.8564085	91.11616398	1.238599208	0.308709
MSMO1	740.2052678	597.8109295	1.238192932	0.308236
TIGD6	152.6880821	123.3401732	1.237942823	0.307945
ZKSCAN5	248.94796	201.1222644	1.237794139	0.307771
ZKSCAN4	192.5197557	155.5641824	1.237558368	0.307497
STAT1	2760.832877	2231.234845	1.237356472	0.307261
MRPL10	224.053164	181.1211552	1.237034756	0.306886
THBS2	536.0679406	433.3573653	1.23701126	0.306859
SHOC2	1731.847975	1400.077642	1.236965668	0.306805
SLX9	87.96161254	71.11505481	1.23689158	0.306719
BIRC2	1170.885239	946.7191672	1.236782014	0.306591
LPIN2	1589.947638	1285.62685	1.236710044	0.306507
RFTN1	171.7740924	138.8965914	1.23670488	0.306501
TOMM7	463.0432056	374.4652105	1.236545326	0.306315
TEC	322.8025215	261.1255919	1.236196419	0.305908
BSG	3091.933663	2501.249818	1.236155477	0.30586
ZNF609	1023.176116	827.8236849	1.235983138	0.305659
GAPVD1	2124.355925	1718.984216	1.235820496	0.305469
DIS3L	385.869338	312.2395375	1.235811906	0.305459
NAPB	190.8601027	154.4530097	1.235716307	0.305348
ACTR6	413.2536136	334.4629922	1.235573511	0.305181
UVRAG	472.1712975	382.2434196	1.235263377	0.304819
H2AC6	1523.561515	1233.401732	1.235251643	0.304805
POGLUT3	375.9114196	304.4613284	1.234677066	0.304134
ZNF213-AS1	67.2159492	54.44746384	1.234510195	0.303939
AOPEP	1367.554127	1107.839213	1.234433761	0.303849
EDF1	922.7671051	747.8192483	1.233944041	0.303277
GSC	63.06681654	51.11394565	1.233847549	0.303164
OLFML1	31.53340827	25.55697282	1.233847549	0.303164
ACTR5	283.8006744	230.0127554	1.233847549	0.303164
ARMC8	1122.7553	910.050467	1.233728612	0.303025
MPZL3	90.45109214	73.33740027	1.233355584	0.302589
ARHGEF9	420.7220524	341.1300286	1.233318727	0.302546
FAM118B	149.368776	121.1178277	1.233251775	0.302467
NSMCE4A	435.65893	353.3529286	1.232928596	0.302089
PRPF39	551.8346447	447.8026108	1.23231672	0.301373
LRCH2	27.3842756	22.22345463	1.232224065	0.301265
GRAMD2A	27.3842756	22.22345463	1.232224065	0.301265
TSR2	512.0029711	415.5786016	1.232024385	0.301031
ZNF285	214.9250721	174.4541188	1.23198623	0.300986
ICA1L	425.7010116	345.5747195	1.231863871	0.300843
TEAD2	394.1676033	320.0177467	1.231705452	0.300657
PPP1R7	495.4064404	402.2445288	1.231605168	0.30054
LCP1	588.3470122	477.8042745	1.23135569	0.300248
ST7L	560.9627366	455.5808199	1.23131333	0.300198
AK4	175.0933985	142.2301096	1.231057186	0.299898
SLC25A10	23.23514293	18.88993643	1.230027587	0.298691
A2M-AS1	23.23514293	18.88993643	1.230027587	0.298691
PLEK2	162.6460005	132.229555	1.230027587	0.298691
GEMIN5	703.6929003	572.2539567	1.229686387	0.29829
CBX8	158.4968679	128.8960368	1.229648884	0.298246
SLC31A1	243.1391743	197.7887462	1.229287201	0.297822
ZNF432	463.0432056	376.687556	1.229250073	0.297778
TOX2	196.6688884	160.0088733	1.229112388	0.297617
HELB	131.1125923	106.6725822	1.229112388	0.297617
KCTD18	408.2746544	332.2406467	1.228852214	0.297311
RPS13	457.2344199	372.242865	1.228322858	0.29669
ANKRA2	207.4566333	168.8982552	1.228293526	0.296655
CUTC	122.8143269	100.0055458	1.228075162	0.296399
FAM200B	141.9003372	115.5619641	1.227915589	0.296211
TMEM87B	597.475104	486.6936564	1.227620488	0.295865
MAPK12	118.6651943	96.67202764	1.2275029	0.295726
TMF1	1040.602473	847.8247941	1.227379147	0.295581
SMAD2	1411.534933	1150.063777	1.227353614	0.295551
CFAP65	175.9232251	143.3412824	1.227303274	0.295492
GTF3C5	805.7615639	656.7030843	1.226980021	0.295112
ADPRH	38.17202053	31.11283648	1.226889762	0.295006
FAUP1	38.17202053	31.11283648	1.226889762	0.295006
C3orf33	19.08601027	15.55641824	1.226889762	0.295006
KCNIP4	19.08601027	15.55641824	1.226889762	0.295006
PARG	598.3049306	487.8048291	1.226525231	0.294577
EXT1	2646.316815	2157.897444	1.2263404	0.294359
RPL6P10	15.40899383	15.76670413	1.023214384	0.033108
RAB44	15.40899383	15.76670413	1.023214384	0.033108
ENSG000002	15.40899383	15.76670413	1.023214384	0.033108
ENSG000002	15.40899383	15.76670413	1.023214384	0.033108
BICD2	417.1434758	426.5308382	1.022503918	0.032106
ACOX1	1134.762331	1160.097494	1.022326404	0.031856
MARK4	327.9914401	335.2499195	1.022130088	0.031579
EIF2B5	548.1199233	560.13291	1.021916712	0.031278
SETD4	285.0663858	291.2691132	1.021758887	0.031055
KCTD9	186.0085684	190.0302761	1.021621089	0.03086
ANKRD13D	254.2483982	259.7357049	1.021582464	0.030806
UQCC1	390.7280578	399.1465625	1.021545688	0.030754
ENSG000001	34.11991491	34.8527144	1.021477178	0.030657
SLC29A1	279.5631737	285.4603275	1.021094172	0.030116
DHRS7B	139.7815869	142.7301637	1.021094172	0.030116
MPV17	177.203429	180.9021843	1.020872933	0.029803
KIDINS220	4550.055749	4644.539107	1.020765319	0.029651
THRAP3	2691.070708	2746.725825	1.020681403	0.029533
GASK1B	504.0942267	514.4924507	1.02062754	0.029456
CAMKK1	90.25267814	92.1107452	1.02058739	0.0294
HCAR2	37.42184215	38.17202053	1.020046538	0.028635
BIVM	18.71092108	19.08601027	1.020046538	0.028635
HS3ST4	18.71092108	19.08601027	1.020046538	0.028635
MIRLET7IHC	18.71092108	19.08601027	1.020046538	0.028635
FECH	486.483948	496.236267	1.020046538	0.028635
UBXN1	430.3511848	438.9782362	1.020046538	0.028635
RAP1GDS1	387.4261305	394.9974299	1.019542562	0.027922
UBR4	10616.79675	10824.2573	1.019540786	0.027919
TMEM101	100.1584599	102.0686636	1.019071816	0.027256
ATF2	2228.800893	2271.235222	1.019039085	0.027209
AARS2	347.8030036	354.3359297	1.018783409	0.026847
ZBTB18	1009.289096	1028.155075	1.018692344	0.026718
MLH1	931.1434842	948.4917276	1.018631117	0.026632
NMD3	796.8651094	811.5703496	1.018453864	0.026381
DVL3	1387.910087	1413.194586	1.018217678	0.026046
SEC13	974.0685384	991.6427074	1.018042025	0.025797
RPL18	1072.025713	1091.221891	1.017906453	0.025605
CDK17	943.2505508	960.1092991	1.017873033	0.025558
WAC	8775.421985	8932.252805	1.017871599	0.025556
SPATS2	396.2312699	403.2956952	1.017829046	0.025495
SAP30BP	534.9122143	544.3662059	1.017673912	0.025275
FBXO3	494.1884449	502.8748792	1.01757717	0.025138
SLC4A7	1578.321225	1605.714342	1.017355857	0.024824
PIGO	482.0813783	490.4274812	1.017312643	0.024763
SON	10223.8674	10400.21594	1.017248711	0.024672
EIF3I	992.7794595	1009.898891	1.017243942	0.024666
CLTCL1	305.9785917	311.18495	1.017015433	0.024342
TMEM81	47.3276239	48.12993894	1.016952362	0.024252
OXCT1	997.1820292	1014.048024	1.016913657	0.024197
ZNF219	239.9400468	243.9690008	1.016791503	0.024024
FKBP10	359.9100701	365.9535012	1.016791503	0.024024
CCDC127	265.2548223	269.6936233	1.016734101	0.023942
LAMP2	2917.803046	2966.629857	1.016734101	0.023942
VPS36	499.691657	507.8538384	1.016334436	0.023375
SLITRK6	879.4132906	893.7231764	1.016272083	0.023287
MIR34AHG	25.31477557	25.72462253	1.016190029	0.02317
FZD5	399.5331971	405.7851748	1.015648206	0.022401
POLDIP2	567.9314868	576.7294407	1.015491224	0.022178
SRP68	922.3383449	936.0443296	1.01486004	0.021281
WDR33	1014.792308	1029.814728	1.014803443	0.0212
CSRNP2	292.7708827	297.0778989	1.014711218	0.021069
MAP3K13	528.3083598	536.0679406	1.014687598	0.021036
ZNF296	60.5353329	61.40716347	1.014402012	0.02063
DDX41	669.1905891	678.7981043	1.014356919	0.020565
SNAPC4	369.8158519	375.0815931	1.01423882	0.020397
NUS1	134.2783748	136.0915515	1.013503118	0.019351
SHMT2	335.695937	340.2288787	1.013503118	0.019351
ZNF141	370.9164943	375.9114196	1.013466442	0.019298
ZNF638	3396.582497	3442.12046	1.013406995	0.019214
CRBN	627.3661773	635.6471246	1.013199544	0.018918
LINC00649	35.22055732	35.68254093	1.013116874	0.018801
TMTC4	336.7965794	341.0587052	1.012654896	0.018143
ST3GAL4	150.788011	152.6880821	1.012600943	0.018066
GSR	1066.522501	1079.60432	1.012265863	0.017588
RBM3	694.5053647	702.8630738	1.012034045	0.017258
UTP3	334.5952946	338.5692256	1.011876829	0.017034
TCTA	41.82441182	42.3211532	1.011876829	0.017034
PMF1	41.82441182	42.3211532	1.011876829	0.017034
NIPSNAP2	553.6231354	560.13291	1.011758495	0.016865
SEC22A	177.203429	179.2425312	1.011507126	0.016506
KHNYN	502.9935842	508.683665	1.011312432	0.016229
TCP11L2	242.1413316	244.7988273	1.010974978	0.015747
CFAP298-TC	48.42826632	48.95976547	1.010974978	0.015747
SNX14	100.1584599	101.2388371	1.010786679	0.015479
HARS1	252.0471133	254.7567457	1.0107505	0.015427
ARL8B	599.8501169	605.7733694	1.009874554	0.014176
PRRC2B	4692.038621	4738.309506	1.009861574	0.014158
NBL1	301.5760221	304.5463377	1.00984931	0.01414
VOPP1	123.2719506	124.47398	1.009751037	0.014
ARSG	64.93790256	65.55629614	1.009522845	0.013674
CTNNA1	2774.719531	2800.66455	1.009350501	0.013427
ENSG000002	422.6466879	426.5308382	1.009190064	0.013198
UTP25	595.4475472	600.7944102	1.00897957	0.012897
RASGRP3	149.6873686	151.0284291	1.008959076	0.012868
ESYT1	676.895086	682.947237	1.008941047	0.012842
SRP14	573.4346989	578.3890938	1.008639859	0.012411
VPS26B	280.6638162	282.9708479	1.008219911	0.01181
NUP50	665.8886619	671.3296655	1.008171041	0.01174
TRUB1	310.3811614	312.8446031	1.007936827	0.011405
CLEC2D	215.7259136	217.4145517	1.007827702	0.011249
GMIP	215.7259136	217.4145517	1.007827702	0.011249

PCYOX1L	162.8950776	85.56030032	0.525247918	-0.92893
EPHA7	1229.417579	645.591357	0.525119673	-0.929282
EXOC6	713.2162858	374.4652105	0.525037381	-0.929508
UBE2I	1100.642416	577.8098203	0.524975062	-0.929679
CFAP20DC	82.54818122	43.33573653	0.524975062	-0.929679
RTN4RL2	82.54818122	43.33573653	0.524975062	-0.929679
MRPL48	249.8458285	131.1183823	0.524797164	-0.930168
PARVA	567.9314868	297.794292	0.524348973	-0.931401
SWAP70	464.4710997	243.3468282	0.523922432	-0.932575
RAB5B	937.7473387	491.1383473	0.523742726	-0.93307
MCM6	416.0428334	217.7898554	0.523479406	-0.933795
CPNE7	89.15203572	46.66925472	0.523479406	-0.933795
STX11	29.71734524	15.55641824	0.523479406	-0.933795
ZNF215	29.71734524	15.55641824	0.523479406	-0.933795
MTREX	1299.858694	680.0377116	0.523162798	-0.934668
PCMTD1	1434.137068	750.0415937	0.522991568	-0.93514
ZNF257	61.63597531	32.22400921	0.522811703	-0.935637
SMIM15	184.9079259	96.67202764	0.522811703	-0.935637
TMX2	714.3169282	373.3540378	0.522672812	-0.93602
NPAS2	1211.8073	633.3684569	0.522664335	-0.936043
CEP135	248.7451861	130.0072096	0.522652163	-0.936077
ANKMY2	376.4197064	196.6775735	0.522495422	-0.93651
APC	2622.830878	1370.075978	0.522365353	-0.936869
MRPL40	223.4304105	116.6731368	0.522190048	-0.937353
GALNT7-DT	31.91863007	16.66759097	0.522190048	-0.937353
ANK2	512.899366	267.7926283	0.522115343	-0.93756
RPL6P27	321.3875856	167.7870824	0.522070827	-0.937683
TTC1	753.9400552	393.3551469	0.521732655	-0.938617
FER	560.2269899	292.2384284	0.521642894	-0.938866
MORF4L1	1619.044994	844.4912759	0.521598398	-0.938989
BCLAF1	3952.406917	2061.225417	0.521511439	-0.939229
CHCHD7	102.3597447	53.33629111	0.521067059	-0.940459
DNAJC3	1166.680961	607.8114841	0.520974889	-0.940714
TMEM87B	934.4454114	486.6936564	0.520836905	-0.941096
RNF2	525.0064326	273.3484919	0.520657415	-0.941594
MRPS9	245.4432588	127.7848641	0.520628942	-0.941673
STARD3NL	527.2077174	274.4596647	0.520591136	-0.941777
RPLP1	668.0899467	347.7970649	0.520584192	-0.941797
IRAK4	213.5246288	111.1172731	0.520395581	-0.942319
UBE2G2	570.1327716	296.6831193	0.520375488	-0.942375
SETDB2	431.4518272	224.4568918	0.520236276	-0.942761
TENT2	903.6274238	470.0260654	0.520154715	-0.942987
TK1	36.32119974	18.88993643	0.520080189	-0.943194
MAPK11	36.32119974	18.88993643	0.520080189	-0.943194
NEDD4	474.3768814	246.6803464	0.520009208	-0.943391
KIAA1328	365.4132822	190.0105371	0.519988042	-0.94345
SLAIN2	1912.91652	994.4995946	0.519886563	-0.943731
MTDH	2043.892967	1062.281131	0.519734227	-0.944154
RN7SL5P	74.84368431	38.8910456	0.519630293	-0.944443
ZNF22	224.5310529	116.6731368	0.519630293	-0.944443
PPP1R9A	868.4068665	451.136129	0.519498574	-0.944808
LPXN	190.411138	98.8943731	0.519372838	-0.945158
EFHD2	305.9785917	158.8977006	0.519309863	-0.945332
SLC25A37	731.9272068	380.0210742	0.519206105	-0.945621
USP8	1747.820157	906.7169489	0.518770164	-0.946833
YTHDF3	2467.640297	1280.070987	0.518742942	-0.946908
RAB17	81.44753881	42.22456379	0.518426516	-0.947789
EIF2B2	407.237694	211.122819	0.518426516	-0.947789
EGR3	124.372593	64.44801842	0.518185051	-0.948461
PNRC2	709.9143585	367.7981741	0.51808809	-0.948731
ACTR3B	216.826556	112.2284459	0.517595482	-0.950103
GJC1	219.0278408	113.3396186	0.517466721	-0.950462
UIMC1	839.7901636	434.468538	0.517353688	-0.950777
MDM4	2697.674562	1395.632951	0.51734667	-0.950797
TYW3	221.2291257	114.4507913	0.517340522	-0.950814
REL	532.7109295	275.5708374	0.517299012	-0.95093
SIPA1L3	5648.49688	2921.273111	0.517177078	-0.95127
MRPL2	90.25267814	46.66925472	0.517095511	-0.951497
RAB30-DT	45.12633907	23.33462736	0.517095511	-0.951497
LYPLA1	460.06853	237.7909645	0.516859879	-0.952155
KCNQ5	47.3276239	24.44580009	0.516522869	-0.953096
PRPF39	867.306224	447.8026108	0.516314306	-0.953679
S1PR1	96.85653263	50.00277291	0.51625607	-0.953841
NPIPB4	243.241974	125.5625187	0.516204159	-0.953986
TGS1	585.5417655	302.238983	0.516169812	-0.954082
TAF4B	101.2591023	52.22511838	0.515757272	-0.955236
PSMD12	1452.84799	748.930421	0.515491246	-0.95598
UBE2V1P2	105.661672	54.44746384	0.51530004	-0.956515
TNRC6A	265.2548223	136.674246	0.515256404	-0.956638
EIF5B	1971.250568	1015.611877	0.515211964	-0.956762
CD36	53.9314784	27.77931829	0.515085422	-0.957116
CD247	53.9314784	27.77931829	0.515085422	-0.957116
HYKK	112.2655265	57.78098203	0.514681433	-0.958248
COX7B	336.7965794	173.3429461	0.514681433	-0.958248
ARCN1	1690.586751	870.0482487	0.51464277	-0.958357
C1orf56	170.5995745	87.78264578	0.51455372	-0.958606
FADS2	345.6017187	177.787637	0.514429262	-0.958955
FBXO48	58.33404806	30.00166375	0.514307934	-0.959296
NFATC3	1576.11994	810.0449212	0.513948781	-0.960304
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ZC3HAV1L	183.8072835	94.44968217	0.513851684	-0.960576
PLIN2	186.0085684	95.5608549	0.513744371	-0.960877
SLC49A3	62.73661773	32.22400921	0.513639568	-0.961172
EFCAB7	190.411138	97.78320037	0.513537188	-0.961459
ZNF630	190.411138	97.78320037	0.513537188	-0.961459
PTK2B	723.1220675	371.1316923	0.513235191	-0.962308
MED9	67.13918739	34.44635467	0.513058856	-0.962804
AEN	67.13918739	34.44635467	0.513058856	-0.962804
LYPLAL1	738.5310613	378.9099014	0.513058856	-0.962804
BET1	138.6809445	71.11505481	0.512796153	-0.963543
CCDC117	348.903646	178.8988098	0.512745601	-0.963685
IAH1	460.553726	375.5763832	1.226258483	0.294263
ODR4	441.4677158	360.019965	1.226231206	0.294231
PLEKHB2	220.7338579	180.0099825	1.226231206	0.294231
RPL37	1156.778188	943.385649	1.226198627	0.294193
TEX261	91.28091867	74.44857301	1.226093597	0.294069
NDUFC1	341.8885317	278.9043556	1.225827151	0.293756
RPL41	1138.522004	928.9404035	1.225613613	0.293504
PUS7L	390.8482972	318.9065739	1.225588712	0.293475
STT3B	5467.727028	4461.358517	1.225574454	0.293458
ZBED4	750.1631862	612.256175	1.225243969	0.293069
LAMP1	3687.749114	3010.166929	1.225097877	0.292897
ZC3H10	155.1775617	126.6736914	1.225018076	0.292803
PRKAR2B	189.2004496	154.4530097	1.224970948	0.292748
SLITRK1	34.02288787	27.77931829	1.22475604	0.292494
SEL1L	2656.274733	2169.009172	1.224648917	0.292368
RNF115	674.6489716	551.1416748	1.224093554	0.291714
PYGO1	304.5463377	248.9026918	1.223555822	0.29108
ASB7	142.7301637	116.6731368	1.223333559	0.290818
SETD2	4759.884995	3892.438078	1.222854391	0.290253
MRPS2	307.0358173	251.1250373	1.222641202	0.290001
CARNMT1	347.6973175	284.4602192	1.222305595	0.289605
RAB3GAP2	1926.85721	1576.754106	1.222040395	0.289292
ATP6AP1L	44.8106328	36.66870014	1.222040395	0.289292
CDC42SE1	418.2325728	342.2412013	1.222040395	0.289292
FDX1	104.5581432	85.56030032	1.222040395	0.289292
MAML1	29.8737552	24.44580009	1.222040395	0.289292
MRPL3P1	29.8737552	24.44580009	1.222040395	0.289292
SLC19A2	279.6515417	228.9015827	1.221710826	0.288903
RPLP0	2687.808142	2200.122008	1.221663222	0.288847
SEC23B	2033.075007	1664.536752	1.221405898	0.288543
NARS1	1476.261403	1208.955932	1.221104396	0.288187
ETV3	468.0221648	383.3545923	1.22085968	0.287897
TICAM1	322.8025215	264.4591101	1.220614111	0.287607
GTPBP3	166.7951332	136.674246	1.220384514	0.287336
PRDM1	111.1967555	91.11616398	1.220384514	0.287336
ARFIP1	528.5995018	433.3573653	1.219777357	0.286618
MYDGF	357.6552359	293.3496011	1.219211598	0.285949
MRS2	357.6552359	293.3496011	1.219211598	0.285949
USP8	1105.328942	906.7169489	1.219045198	0.285752
PSMC2	916.9583194	752.2639392	1.218931643	0.285617
EIF4B	1568.372148	1286.738023	1.218874487	0.28555
ZSWIM1	261.395358	214.4563372	1.218874487	0.28555
PRELID3A	77.1738676	63.33684569	1.218467178	0.285067
WDR74	268.0339703	220.0122008	1.218268665	0.284832
ENSG000001	87.96161254	72.22622754	1.217862479	0.284351
TNPO1	1819.809588	1494.527324	1.217648924	0.284098
LNX2	555.9837774	456.6919926	1.217415208	0.283821
ATAD2B	1601.565209	1315.628514	1.217338475	0.28373
PRDM2	2534.290233	2082.337699	1.217040941	0.283378
GRK6	401.6360421	330.0183012	1.217011422	0.283343
CDON	799.1229516	656.7030843	1.216871019	0.283176
GLB1L	193.3495823	158.8977006	1.216818	0.283113
SUCO	1657.163587	1362.297769	1.216447406	0.282674
CCNQ	225.7128171	185.5658462	1.216348923	0.282557
HAUS5	232.3514293	191.1217098	1.215724941	0.281817
BRMS1	185.0513169	152.2306642	1.215598171	0.281666
BLZF1	380.8903788	313.3507103	1.21554018	0.281598
TRIM59	68.87560227	56.6698093	1.215384402	0.281413
CNTNAP1	206.6268068	170.0094279	1.215384402	0.281413
MORN4	90.45109214	74.44857301	1.214947292	0.280894
MSI2	2184.103436	1797.877479	1.214823291	0.280746
TRIM13	400.8062156	330.0183012	1.214496936	0.280359
SEPHS2	689.5858492	567.8092658	1.214467412	0.280324
DNAJB14	433.1694504	356.6864468	1.214426436	0.280275
LMAN1	1706.953179	1405.633505	1.214365745	0.280203
APPBP2	1185.822116	976.7208309	1.214085006	0.279869
TM2D2	381.7202053	314.461883	1.213883863	0.27963
PDE4DIP	446.446675	367.7981741	1.213836029	0.279574
HSPA9P1	10.78774493	8.889381852	1.213554003	0.279238
ENSG000002	10.78774493	8.889381852	1.213554003	0.279238
ENSG000002	10.78774493	8.889381852	1.213554003	0.279238
NEK4	787.5053802	648.9248752	1.213554003	0.279238
BOK	118.6651943	97.78320037	1.213554003	0.279238
TMEM80	118.6651943	97.78320037	1.213554003	0.279238
PSMD10	243.9690008	201.1222644	1.213038256	0.278625
SMTN	336.9095725	277.7931829	1.212807201	0.27835
ARHGAP28	125.3038065	103.339064	1.212550237	0.278045
HERC4	1614.012607	1331.184932	1.212463098	0.277941
SART3	1330.211933	1097.838659	1.211664321	0.27699
HS2ST1	281.3111948	232.2351009	1.211320742	0.276581
UBE3C	1389.959443	1147.841432	1.210933327	0.276119
KIAA1614	88.79143907	73.33740027	1.210725206	0.275871
PTRHD1	322.8025215	266.6814555	1.210442326	0.275534
OTX1	39.00184707	32.22400921	1.210335027	0.275406
RPIA	240.6496947	198.8999189	1.209903433	0.274892
PXDN	1602.395036	1324.517896	1.209794931	0.274763
MFSD6	1721.890057	1423.412269	1.209691735	0.274639
CCDC51	123.6441535	102.2278913	1.209495294	0.274405
FMO2	84.6423064	70.00388208	1.209108751	0.273944
LAT2	28.21410213	23.33462736	1.209108751	0.273944
CAPZB	2756.683744	2280.126445	1.209004768	0.27382
ALDH1A2	73.85456147	61.11450023	1.208462168	0.273172
ZMYM5	210.7759395	174.4541188	1.208202712	0.272863
LIPE	45.64045934	37.77987287	1.208062809	0.272695
ANKLE2	1704.4637	1411.189369	1.207820677	0.272406
CCDC127	269.6936233	223.345719	1.207516421	0.272043
SKIDA1	80.49317374	66.67036389	1.20733065	0.271821
LANCL2	258.9058784	214.4563372	1.207266159	0.271744
SLC15A3	115.3458881	95.5608549	1.207041191	0.271475
CYSLTR2	17.4263572	14.44524551	1.20637321	0.270676
IFT122P3	17.4263572	14.44524551	1.20637321	0.270676
C6orf120	215.7259136	217.4145517	1.007827702	0.011249
AAR2	225.6316953	227.3724701	1.007715116	0.011088
TBC1D5	922.3383449	929.4057174	1.007662451	0.011012
NINL	611.9571835	616.5611143	1.007523289	0.010813
RPRD2	2693.271993	2713.532764	1.007522735	0.010812
DNMBP	808.972176	814.8896558	1.007314813	0.010515
GPCPD1	714.3169282	719.4596044	1.007199432	0.010349
PLEKHO1	337.8972218	340.2288787	1.006900491	0.009921
OSBPL6	374.2184215	376.7412461	1.006741583	0.009693
ECD	1054.415435	1061.348136	1.006574924	0.009455
ANKRD18A	694.5053647	698.7139411	1.006059818	0.008716
TMED4	632.8693894	636.4769511	1.005700326	0.0082
MED24	642.7751711	646.4348695	1.00569359	0.008191
COX16	16.50963624	16.59653067	1.005263255	0.007573
ENSG000002	16.50963624	16.59653067	1.005263255	0.007573
LIN37	16.50963624	16.59653067	1.005263255	0.007573
ENSG000002	16.50963624	16.59653067	1.005263255	0.007573
PAK3	59.43469048	59.7475104	1.005263255	0.007573
BLOC1S1	29.71734524	29.8737552	1.005263255	0.007573
C1orf226	29.71734524	29.8737552	1.005263255	0.007573
ARHGEF4	82.54818122	82.98265334	1.005263255	0.007573
DGAT2	52.83083598	53.10889814	1.005263255	0.007573
MYO15A	52.83083598	53.10889814	1.005263255	0.007573
STMN2	39.62312699	39.8316736	1.005263255	0.007573
ANKRD53	19.81156349	19.9158368	1.005263255	0.007573
RGPD1	19.81156349	19.9158368	1.005263255	0.007573
LHX3	9.905781747	9.9579184	1.005263255	0.007573
B3GAT2	9.905781747	9.9579184	1.005263255	0.007573
NIPAL4	9.905781747	9.9579184	1.005263255	0.007573
ANGPTL5	9.905781747	9.9579184	1.005263255	0.007573
ENSG000002	9.905781747	9.9579184	1.005263255	0.007573
RPL5P23	9.905781747	9.9579184	1.005263255	0.007573
RNF139-DT	9.905781747	9.9579184	1.005263255	0.007573
ENSG000002	9.905781747	9.9579184	1.005263255	0.007573
ENSG000002	9.905781747	9.9579184	1.005263255	0.007573
IQSEC3	6.603854498	6.638612267	1.005263255	0.007573
PILRB	6.603854498	6.638612267	1.005263255	0.007573
GNRH2	6.603854498	6.638612267	1.005263255	0.007573
CYP19A1	6.603854498	6.638612267	1.005263255	0.007573
TXNDC2	6.603854498	6.638612267	1.005263255	0.007573
NIM1K	6.603854498	6.638612267	1.005263255	0.007573
C1orf167	6.603854498	6.638612267	1.005263255	0.007573
LINC03007	6.603854498	6.638612267	1.005263255	0.007573
ENSG000002	6.603854498	6.638612267	1.005263255	0.007573
ENSG000002	6.603854498	6.638612267	1.005263255	0.007573
WAPL-DT	6.603854498	6.638612267	1.005263255	0.007573
WDR45BP1	6.603854498	6.638612267	1.005263255	0.007573
ENSG000002	6.603854498	6.638612267	1.005263255	0.007573
SYNPO2L-AS	6.603854498	6.638612267	1.005263255	0.007573
ENSG000002	6.603854498	6.638612267	1.005263255	0.007573
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CPB2	3.301927249	3.319306133	1.005263255	0.007573
PNPLA5	3.301927249	3.319306133	1.005263255	0.007573
ANKRD7	3.301927249	3.319306133	1.005263255	0.007573
ENSG000001	3.301927249	3.319306133	1.005263255	0.007573
LIN28A	3.301927249	3.319306133	1.005263255	0.007573
TCN1	3.301927249	3.319306133	1.005263255	0.007573
GPA33	3.301927249	3.319306133	1.005263255	0.007573
TRIM50	3.301927249	3.319306133	1.005263255	0.007573
CRH	3.301927249	3.319306133	1.005263255	0.007573
OR13C4	3.301927249	3.319306133	1.005263255	0.007573
FRMD1	3.301927249	3.319306133	1.005263255	0.007573
OR13H1	3.301927249	3.319306133	1.005263255	0.007573
NLRP6	3.301927249	3.319306133	1.005263255	0.007573
GPBAR1	3.301927249	3.319306133	1.005263255	0.007573
C3orf80	3.301927249	3.319306133	1.005263255	0.007573
CCDC172	3.301927249	3.319306133	1.005263255	0.007573
RESP18	3.301927249	3.319306133	1.005263255	0.007573
KRTDAP	3.301927249	3.319306133	1.005263255	0.007573
NPIPP1	3.301927249	3.319306133	1.005263255	0.007573
LINC00173	3.301927249	3.319306133	1.005263255	0.007573
CYP2A13	3.301927249	3.319306133	1.005263255	0.007573
FBXO47	3.301927249	3.319306133	1.005263255	0.007573
SNORD94	3.301927249	3.319306133	1.005263255	0.007573
TRAV21	3.301927249	3.319306133	1.005263255	0.007573
RNU6-1176P	3.301927249	3.319306133	1.005263255	0.007573
HNRNPA3P3	3.301927249	3.319306133	1.005263255	0.007573
MS4A18	3.301927249	3.319306133	1.005263255	0.007573
LACTBL1	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
TCAF1P1	3.301927249	3.319306133	1.005263255	0.007573
RBMX2P3	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
LAGE3P1	3.301927249	3.319306133	1.005263255	0.007573
PROSER2-AS	3.301927249	3.319306133	1.005263255	0.007573
TLK1P1	3.301927249	3.319306133	1.005263255	0.007573
HNRNPA3P1	3.301927249	3.319306133	1.005263255	0.007573
HNRNPA1P2	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
RFPL4AL1	3.301927249	3.319306133	1.005263255	0.007573
LINC01315	3.301927249	3.319306133	1.005263255	0.007573
RPS23P8	3.301927249	3.319306133	1.005263255	0.007573
SMARCE1P5	3.301927249	3.319306133	1.005263255	0.007573
CTXN2	3.301927249	3.319306133	1.005263255	0.007573
MTCO2P11	3.301927249	3.319306133	1.005263255	0.007573
HAND2-AS1	3.301927249	3.319306133	1.005263255	0.007573
HTR3E-AS1	3.301927249	3.319306133	1.005263255	0.007573
RN7SL258P	3.301927249	3.319306133	1.005263255	0.007573

PPP1R12A	4994.715285	2556.808455	0.511902743	-0.966058
PPP1R13B	2207.888687	1130.062668	0.511829548	-0.966265
C6orf132	1333.978609	682.2600571	0.511447525	-0.967342
ZZZ3	3091.704547	1581.198797	0.511432698	-0.967384
PRPF38B	669.1905891	342.2412013	0.511425604	-0.967404
NCOA6	7563.614685	3867.992278	0.511394676	-0.967491
PCDHGB7	258.6509678	132.229555	0.511227761	-0.967962
TIMM9	173.9015018	88.89381852	0.51117338	-0.968115
ADSL	89.15203572	45.55808199	0.511015611	-0.968561
CCDC25	274.0599617	140.0077642	0.510865445	-0.968985
SH3RF1	2980.539663	1522.306642	0.510748661	-0.969315
SRGN	376.4197064	192.2328825	0.510687616	-0.969487
PPP4R2	189.3104956	96.67202764	0.510653291	-0.969584
ENDOG	97.95717505	50.00277291	0.51045544	-0.970143
TBK1	821.0792426	418.9121198	0.510196943	-0.970874
XRN1	3548.47115	1808.989207	0.509793973	-0.972014
GOLM2	1587.126364	808.9337485	0.509684526	-0.972324
GNPDA2	453.4646755	231.1239281	0.509684526	-0.972324
GATA3	351.1049308	178.8988098	0.509530895	-0.972758
POC5	242.1413316	123.3401732	0.509372656	-0.973207
RNASEH2B	246.5439013	125.5625187	0.509290711	-0.973439
PAPSS1	3553.974362	1808.989207	0.509004574	-0.974249
PCTP	408.3383364	207.7893008	0.508865522	-0.974644
NSD3	5721.13928	2911.272556	0.508862381	-0.974653
ZNF516	447.9614634	227.7904099	0.508504478	-0.975668
USP47	2203.486117	1120.062113	0.508313669	-0.976209
SUB1	489.7858753	248.9026918	0.508186749	-0.976569
TCF12	2514.967921	1277.848641	0.508097392	-0.976823
DNAJB14	702.2098616	356.6864468	0.507948501	-0.977246
PARP8	1534.295528	778.9320847	0.507680607	-0.978007
PCOLCE2	203.618847	103.339064	0.507512274	-0.978485
DACT1	205.8201318	104.4502368	0.507483091	-0.978568
CBR3-AS1	205.8201318	104.4502368	0.507483091	-0.978568
H2AC8	626.2655349	317.7954012	0.507445139	-0.978676
OXSR1	650.479668	330.0183012	0.507346067	-0.978958
SMCHD1	5712.334141	2896.827311	0.507117973	-0.979607
SMARCA1	3715.768797	1883.43778	0.506877011	-0.980292
ATF1	271.8586768	137.7854187	0.506827372	-0.980434
LARP7	565.730202	286.6825647	0.506747852	-0.98066
MTX3	282.865101	143.3412824	0.506747852	-0.98066
HM13	1533.194886	776.7097393	0.506595571	-0.981094
EMC2	963.0621143	487.8048291	0.5065144	-0.981325
PREX2	1477.062123	747.8192483	0.506288285	-0.981969
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SORBS1	4908.865177	2479.026364	0.505010074	-0.985616
COMMD7	90.25267814	45.55808199	0.504783713	-0.986263
NEGR1	90.25267814	45.55808199	0.504783713	-0.986263
UPF3A	440.2569665	222.2345463	0.504783713	-0.986263
MAPKAPK3	341.1991491	172.2317734	0.504783713	-0.986263
NPTXR	156.2912231	78.89326393	0.504783713	-0.986263
ZNF821	151.8886534	76.67091847	0.504783713	-0.986263
USP18	129.8758051	65.55919115	0.504783713	-0.986263
TMOD2	114.4668113	57.78098203	0.504783713	-0.986263
C22orf46P	61.63597531	31.11283648	0.504783713	-0.986263
ENSG000002	28.61670282	14.44524551	0.504783713	-0.986263
ADCYAP1R1	24.21413316	12.22290005	0.504783713	-0.986263
DNASE1L2	24.21413316	12.22290005	0.504783713	-0.986263
GC	15.40899383	7.77820912	0.504783713	-0.986263
MEPCE	15.40899383	7.77820912	0.504783713	-0.986263
CPLX1	15.40899383	7.77820912	0.504783713	-0.986263
DIRC3	15.40899383	7.77820912	0.504783713	-0.986263
RPL13AP25	6.603854498	3.333518194	0.504783713	-0.986263
CYP19A1	6.603854498	3.333518194	0.504783713	-0.986263
LYPD5	6.603854498	3.333518194	0.504783713	-0.986263
GABRG1	6.603854498	3.333518194	0.504783713	-0.986263
CDK5R2	6.603854498	3.333518194	0.504783713	-0.986263
ZNF80	6.603854498	3.333518194	0.504783713	-0.986263
OR10P1	6.603854498	3.333518194	0.504783713	-0.986263
ZNF876P	6.603854498	3.333518194	0.504783713	-0.986263
TXN2P1	6.603854498	3.333518194	0.504783713	-0.986263
TNPO1P3	6.603854498	3.333518194	0.504783713	-0.986263
ZNF492	6.603854498	3.333518194	0.504783713	-0.986263
HSPA8P18	6.603854498	3.333518194	0.504783713	-0.986263
ENSG000002	6.603854498	3.333518194	0.504783713	-0.986263
CFHR1	6.603854498	3.333518194	0.504783713	-0.986263
MOCS2-DT	6.603854498	3.333518194	0.504783713	-0.986263
ENSG000002	6.603854498	3.333518194	0.504783713	-0.986263
SUGT1P4-ST	6.603854498	3.333518194	0.504783713	-0.986263
ATP6V1E1P3	6.603854498	3.333518194	0.504783713	-0.986263
HP	6.603854498	3.333518194	0.504783713	-0.986263
ENSG000002	6.603854498	3.333518194	0.504783713	-0.986263
ZNF778-DT	6.603854498	3.333518194	0.504783713	-0.986263
ZMPSTE24-D	6.603854498	3.333518194	0.504783713	-0.986263
TGFBR3L	6.603854498	3.333518194	0.504783713	-0.986263
LINC02367	6.603854498	3.333518194	0.504783713	-0.986263
ENSG000002	6.603854498	3.333518194	0.504783713	-0.986263
ENSG000002	6.603854498	3.333518194	0.504783713	-0.986263
MPLKIP	200.3169198	101.1167186	0.504783713	-0.986263
ADHFE1	72.64239948	36.66870014	0.504783713	-0.986263
FMNL1-AS1	41.82441182	21.1122819	0.504783713	-0.986263
PAXIP1-AS2	96.85653263	48.89160018	0.504783713	-0.986263
ENSG000002	96.85653263	48.89160018	0.504783713	-0.986263
GCNT4	81.44753881	41.11339106	0.504783713	-0.986263
ADAL	77.04496914	38.8910456	0.504783713	-0.986263
VNN3P	35.22055732	17.7787637	0.504783713	-0.986263
KLRG1	35.22055732	17.7787637	0.504783713	-0.986263
SERBP1P1	35.22055732	17.7787637	0.504783713	-0.986263
TNPO1P1	26.41541799	13.33407278	0.504783713	-0.986263
ALOX5	17.61027866	8.889381852	0.504783713	-0.986263
MCM10	17.61027866	8.889381852	0.504783713	-0.986263
ENSG000002	17.61027866	8.889381852	0.504783713	-0.986263
SPTBN5	285.4603275	236.6797918	1.206103509	0.270354
MRPL14	344.3780113	285.571392	1.205926157	0.270142
ZBTB38	830.6563599	688.9270935	1.205724623	0.2699
ATP1B3	590.8364918	490.0271746	1.205721891	0.269897
NDUFS1	76.34404107	63.33684569	1.20536538	0.269471
GOLM2	975.0461767	808.9337485	1.205347383	0.269449
ACBD3	1547.626485	1284.515678	1.204832694	0.268833
ZPR1	314.5042561	261.1255919	1.20441759	0.268336
TNKS2	1232.292402	1023.390086	1.204127751	0.267988
MYNN	417.4027463	346.6858922	1.203979613	0.267811
NUDT12	155.1775617	128.8960368	1.203897075	0.267712
ZNF629	406.6150013	337.7965104	1.203727655	0.267509
SLC25A42	96.25987787	80.00443666	1.203181747	0.266855
RND2	24.06496947	20.00110917	1.203181747	0.266855
RPL17P18	24.06496947	20.00110917	1.203181747	0.266855
ARSK	102.8984901	85.56030032	1.202642928	0.266208
PTPN4	541.0468998	450.0249562	1.202259769	0.265749
TMEM14A	516.9819303	430.0238471	1.202216886	0.265697
TMEM41B	287.1199805	238.9021373	1.201830941	0.265234
TRIM41	666.3507063	554.475193	1.201768293	0.265159
CASK	2539.269192	2113.450535	1.201480304	0.264813
MYH14	1565.882668	1303.405614	1.201377876	0.26469
PYM1	61.40716347	51.11394565	1.201377876	0.26469
STAC	30.70358173	25.55697282	1.201377876	0.26469
ENSG000002	30.70358173	25.55697282	1.201377876	0.26469
CFDP1	258.9058784	215.5675099	1.201043137	0.264288
SOS2	2404.837294	2002.333262	1.201017503	0.264257
MVK	204.1373272	170.0094279	1.200741216	0.263925
NDUFA4	564.2820427	470.0260654	1.200533511	0.263676
MFSD13A	74.684388	62.22567296	1.200218245	0.263297
IGFBP7	1140.181657	950.0526854	1.200124661	0.263184
MRPS34	380.0605523	316.6842285	1.200124661	0.263184
ATG4C	307.8656439	256.680901	1.199410017	0.262325
AP1M1	446.446675	372.242865	1.199342464	0.262244
COA4	277.1620621	231.1239281	1.199192418	0.262063
EEF1A2	926.0864112	772.2650483	1.199182085	0.262051
FKTN	486.2783486	405.578047	1.19897601	0.261803
HMGN5	202.4776741	168.8982552	1.198814481	0.261608
RINT1	367.6131543	306.6836739	1.19867207	0.261437
REL	330.2709603	275.5708374	1.198497502	0.261227
DBNDD1	57.2580308	47.78042745	1.198357442	0.261058
NUP214	3748.326451	3127.951239	1.198332763	0.261029
BAG1	350.1867971	292.2384284	1.198291406	0.260979
CNOT4	669.6700124	558.9198839	1.198150275	0.260809
ZSCAN31	262.2251845	218.9010281	1.197916642	0.260528
PDPK1	409.9343075	342.2412013	1.197793562	0.260379
LMO2	70.53525534	58.89215477	1.197702064	0.260269
FOXJ3	2609.804447	2179.009726	1.197702064	0.260269
NUP98	2436.370702	2034.557271	1.197494284	0.260019
PDP2	167.6249597	140.0077642	1.197254743	0.25973
PPP5C	1347.63829	1125.617977	1.197243041	0.259716
DZIP1	509.5134915	425.5791561	1.197223793	0.259693
MOK	220.7338579	184.4546734	1.196683466	0.259042
TMEM220	136.921378	114.4507913	1.196334044	0.25862
HCFC2	473.001124	395.5774924	1.195723046	0.257883
PSEN1	1267.145116	1060.058786	1.195353629	0.257437
ILKAP	429.0203178	358.9087923	1.195346358	0.257429
SELPLG	112.8564085	94.44968217	1.194883942	0.25687
RIGI	26.55444907	22.22345463	1.194883942	0.25687
HHLA3	26.55444907	22.22345463	1.194883942	0.25687
TERB1	13.27722453	11.11172731	1.194883942	0.25687
ENSG000002	13.27722453	11.11172731	1.194883942	0.25687
IAPP	6.638612267	5.555863657	1.194883942	0.25687
CD1E	6.638612267	5.555863657	1.194883942	0.25687
SLAMF6	6.638612267	5.555863657	1.194883942	0.25687
SAMD3	6.638612267	5.555863657	1.194883942	0.25687
OR7E87P	6.638612267	5.555863657	1.194883942	0.25687
LRRC26	6.638612267	5.555863657	1.194883942	0.25687
ENSG000002	6.638612267	5.555863657	1.194883942	0.25687
KRT18P31	6.638612267	5.555863657	1.194883942	0.25687
ENSG000002	6.638612267	5.555863657	1.194883942	0.25687
SPATA1	46.47028587	38.8910456	1.194883942	0.25687
GLYATL2	19.9158368	16.66759097	1.194883942	0.25687
ZNF623	19.9158368	16.66759097	1.194883942	0.25687
ARL8A	586.6873591	491.1383473	1.194546022	0.256462
SNF8	476.3204302	398.9110106	1.19405185	0.255865
SSR1	1792.425312	1501.19436	1.193999498	0.255802
MFSD8	188.3706231	157.7865279	1.193832107	0.2556
LRRC8A	693.7349819	581.1433385	1.193741605	0.255491
CNST	478.8099098	401.133356	1.193642719	0.255371
ZKSCAN3	283.8006744	237.7909645	1.193488049	0.255184
DOCK7	3012.270316	2524.584446	1.193174711	0.254805
EMILIN2	102.0686636	85.56030032	1.192944195	0.254527
RHBDD1	417.4027463	350.0194104	1.19251314	0.254005
SLC6A16	233.1812559	195.5664007	1.192338024	0.253793
SENP7	1250.548586	1048.947058	1.192194187	0.253619
SYNM	426.5308382	357.7976195	1.192100827	0.253506
ZNF264	835.6353191	701.1499935	1.191806784	0.25315
SEPTIN1	62.23699	52.22511838	1.191706059	0.253028
APP	12605.89487	10578.3644	1.191667671	0.252982
ZNF544	789.1650332	662.2589479	1.191626079	0.252932
MRPS18A	360.1447155	302.238983	1.191589225	0.252887
FBXL3	644.7752164	541.1411202	1.191510296	0.252791
TRPM2	313.6744296	263.3479374	1.191102664	0.252298
PHF21A	1626.460005	1365.631287	1.190994979	0.252167
PANK1	140.2406841	117.7843095	1.190656758	0.251758
TLR8	91.28091867	76.67091847	1.190554652	0.251634
ZNF331	198.3285415	166.6759097	1.189905259	0.250847
DDX55	276.3322356	232.2351009	1.189881437	0.250818
RAVER2	815.7194823	685.5935753	1.189800359	0.25072
TSG101	938.5338092	788.9326393	1.18962477	0.250507
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
RPS20P33	3.301927249	3.319306133	1.005263255	0.007573
TWF2-DT	3.301927249	3.319306133	1.005263255	0.007573
PLA2G4B	3.301927249	3.319306133	1.005263255	0.007573
DPH6-DT	3.301927249	3.319306133	1.005263255	0.007573
LINC02362	3.301927249	3.319306133	1.005263255	0.007573
EEF1A1P35	3.301927249	3.319306133	1.005263255	0.007573
ANKRD17-D	3.301927249	3.319306133	1.005263255	0.007573
RNA5SP33	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
LINC02055	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
TBX3-AS1	3.301927249	3.319306133	1.005263255	0.007573
ITFG2-AS1.1	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
PTBP1P	3.301927249	3.319306133	1.005263255	0.007573
ANP32AP1	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
MIR3942	3.301927249	3.319306133	1.005263255	0.007573
MADCAM1-.	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
LINC02080	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
DAP-DT	3.301927249	3.319306133	1.005263255	0.007573
LRRC8D-DT	3.301927249	3.319306133	1.005263255	0.007573
OR7M1P	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
ENSG000002	3.301927249	3.319306133	1.005263255	0.007573
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UGT2B4	26.41541799	26.55444907	1.005263255	0.007573
TSSK6	26.41541799	26.55444907	1.005263255	0.007573
UQCR11	13.207709	13.27722453	1.005263255	0.007573
SPDYE18	13.207709	13.27722453	1.005263255	0.007573
ENSG000002	13.207709	13.27722453	1.005263255	0.007573
LINC01376	13.207709	13.27722453	1.005263255	0.007573
CTSL	1086.334065	1092.051718	1.005263255	0.007573
ZFAND6	555.8244202	558.473257	1.0047656	0.006859
SIAH2	347.8030036	349.3569705	1.004467952	0.006432
IPO7	2498.458285	2508.56561	1.004045425	0.005825
ZNF814	414.9421909	416.5729197	1.003930014	0.005659
ERGIC3	1511.182038	1516.922903	1.003798924	0.00547
MAP2K1	375.319064	376.7412461	1.003789262	0.005456
SUCLA2	365.4132822	366.7833277	1.003749304	0.005399
SIN3A	3985.426189	3998.104238	1.003181102	0.004582
NUP214	3736.681003	3748.326451	1.003116522	0.004489
SEPTIN10	839.7901636	842.2739314	1.002957605	0.004261
KBTBD7	223.4304105	224.053164	1.002787237	0.004016
HOPX	106.7623144	107.0476228	1.00267237	0.00385
SOS1	4488.419774	4499.319464	1.002428403	0.003499
ZNF135	374.2184215	375.0815931	1.002306598	0.003324
ITGBL1	334.5952946	335.2499195	1.001956468	0.00282
DCBLD1	160.6937928	160.9863475	1.001820572	0.002624
GNAZ	398.4325547	399.1465625	1.001792042	0.002583
SEPTIN11	1352.68953	1355.106729	1.001786958	0.002576
KAT2A	683.4989405	684.60689	1.001620997	0.002337
AREL1	1019.194877	1020.686636	1.001463664	0.00211
CD82	281.7644586	282.1410213	1.001336445	0.001927
TWF1	974.0685384	975.0461767	1.001003665	0.001447
SLITRK5	514.0000084	514.4924507	1.000958059	0.001382
ZNF578	63.83726015	63.89664307	1.000930224	0.001341
BRF2	188.2098532	188.3706231	1.000854205	0.001232
YPEL3	242.1413316	242.3093477	1.000693876	0.001001
GATAD2A	871.7087937	872.1476866	1.000503486	7.26E-04
TRIM47	114.4668113	114.5160616	1.000430258	6.21E-04
TMEM177	57.23340565	57.2580308	1.000430258	6.21E-04
FEM1C	1185.391882	1185.822116	1.000362946	5.24E-04
EHMT1	1466.055699	1466.303484	1.000169015	2.44E-04
BPHL	266.3554647	266.3743172	1.000070779	1.02E-04
TTC39C	256.449683	256.4163988	0.999870212	-1.87E-04
ETFB	50.62955115	50.61941854	0.999799868	-2.89E-04
BMAL1	249.8458285	249.7777865	0.999727664	-3.93E-04
TTC31	97.95717505	97.91953094	0.999615708	-5.55E-04
EDEM1	635.0706742	634.817298	0.999601027	-5.76E-04
HAPSTR1	726.4239948	726.0982167	0.999551532	-6.47E-04
ZNF175	331.2933673	331.1007868	0.999418701	-8.39E-04
PRPF40A	2022.980761	2021.457435	0.999246989	-0.001087
ACAD8	135.3790172	135.2617249	0.999133601	-0.00125
SYF2	1654.265552	1652.184628	0.998742086	-0.001816
RPLP1	668.0899467	667.1805328	0.998638785	-0.001965
LMBRD2	658.1841649	657.2226144	0.998539086	-0.002109
GJD3-AS1	40.7237694	40.66150013	0.998470936	-0.002208
F3	244.3426164	243.9690008	0.998470936	-0.002208
RBBP6	2101.126373	2097.801476	0.998417565	-0.002285
TPP2	1772.03429	1769.190169	0.998394997	-0.002317
ORMDL3	556.9250626	555.9837774	0.998309853	-0.00244
BRF1	346.7023611	346.0376644	0.998082803	-0.002769

PKD2L1	13.207709	6.667036389	0.504783713	-0.986263
CDH9	13.207709	6.667036389	0.504783713	-0.986263
CD244	13.207709	6.667036389	0.504783713	-0.986263
PIANP	13.207709	6.667036389	0.504783713	-0.986263
LGR5	13.207709	6.667036389	0.504783713	-0.986263
GLT1D1	13.207709	6.667036389	0.504783713	-0.986263
LRRC70	13.207709	6.667036389	0.504783713	-0.986263
DDO	13.207709	6.667036389	0.504783713	-0.986263
MAP4K3-DT	13.207709	6.667036389	0.504783713	-0.986263
ANTXRLP1	13.207709	6.667036389	0.504783713	-0.986263
ENSG000002	13.207709	6.667036389	0.504783713	-0.986263
ENSG000002	13.207709	6.667036389	0.504783713	-0.986263
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SPATA16	8.80513933	4.444690926	0.504783713	-0.986263
FBXO10	8.80513933	4.444690926	0.504783713	-0.986263
TRAPPC5	8.80513933	4.444690926	0.504783713	-0.986263
NKAIN2	8.80513933	4.444690926	0.504783713	-0.986263
HSD3B2	8.80513933	4.444690926	0.504783713	-0.986263
CLPSL1	8.80513933	4.444690926	0.504783713	-0.986263
C18orf63	8.80513933	4.444690926	0.504783713	-0.986263
HSDL2-AS1	8.80513933	4.444690926	0.504783713	-0.986263
PCMTD1P3	8.80513933	4.444690926	0.504783713	-0.986263
ENSG000002	8.80513933	4.444690926	0.504783713	-0.986263
POGLUT2P1	8.80513933	4.444690926	0.504783713	-0.986263
NKX2-2-AS1	8.80513933	4.444690926	0.504783713	-0.986263
MIR193BHG	8.80513933	4.444690926	0.504783713	-0.986263
ENSG000002	8.80513933	4.444690926	0.504783713	-0.986263
DGCR11	8.80513933	4.444690926	0.504783713	-0.986263
NTSR1	4.402569665	2.222345463	0.504783713	-0.986263
AK1	4.402569665	2.222345463	0.504783713	-0.986263
DNTT	4.402569665	2.222345463	0.504783713	-0.986263
FRG1	4.402569665	2.222345463	0.504783713	-0.986263
NEURL3	4.402569665	2.222345463	0.504783713	-0.986263
IL22RA2	4.402569665	2.222345463	0.504783713	-0.986263
HSFX1	4.402569665	2.222345463	0.504783713	-0.986263
C11orf40	4.402569665	2.222345463	0.504783713	-0.986263
C12orf54	4.402569665	2.222345463	0.504783713	-0.986263
FAM133A	4.402569665	2.222345463	0.504783713	-0.986263
TMIE	4.402569665	2.222345463	0.504783713	-0.986263
PRR34	4.402569665	2.222345463	0.504783713	-0.986263
BPIFC	4.402569665	2.222345463	0.504783713	-0.986263
RPS26P11	4.402569665	2.222345463	0.504783713	-0.986263
CYP2B6	4.402569665	2.222345463	0.504783713	-0.986263
RNU6-171P	4.402569665	2.222345463	0.504783713	-0.986263
GLRX3P2	4.402569665	2.222345463	0.504783713	-0.986263
RPS2P55	4.402569665	2.222345463	0.504783713	-0.986263
CALCRL-AS	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
GNG12-AS1	4.402569665	2.222345463	0.504783713	-0.986263
TONSL-AS1	4.402569665	2.222345463	0.504783713	-0.986263
RPS4XP11	4.402569665	2.222345463	0.504783713	-0.986263
YWHAEP5	4.402569665	2.222345463	0.504783713	-0.986263
PPIAL4G	4.402569665	2.222345463	0.504783713	-0.986263
CLIC4P1	4.402569665	2.222345463	0.504783713	-0.986263
ANKRD44-IT	4.402569665	2.222345463	0.504783713	-0.986263
KIAA1328P1	4.402569665	2.222345463	0.504783713	-0.986263
THAP12P2	4.402569665	2.222345463	0.504783713	-0.986263
LINC01550	4.402569665	2.222345463	0.504783713	-0.986263
TMEM30BP1	4.402569665	2.222345463	0.504783713	-0.986263
LINC02315	4.402569665	2.222345463	0.504783713	-0.986263
ARPC1AP4	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
LINC00534	4.402569665	2.222345463	0.504783713	-0.986263
WTAPP1	4.402569665	2.222345463	0.504783713	-0.986263
SMIM14-DT	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
SF3B4P1	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
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SMG1P7	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
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ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
TSIX	4.402569665	2.222345463	0.504783713	-0.986263
C17orf50	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
F8A3	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
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ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
GLUD1P3.1	4.402569665	2.222345463	0.504783713	-0.986263
ENSG000002	4.402569665	2.222345463	0.504783713	-0.986263
DPY19L2P2	4.402569665	2.222345463	0.504783713	-0.986263

TBCCD1	392.5079503	330.0183012	1.189352072	0.250176
RALGDS	71.36508187	60.0033275	1.189352072	0.250176
LDAH	165.1354801	138.8965914	1.188909522	0.249639
ZNF700	511.1731446	430.0238471	1.188708831	0.249395
UBE4A	1160.92732	976.7208309	1.188596868	0.249259
ZFAND4	361.8043685	304.4613284	1.188342606	0.248951
FLACC1	29.04392867	24.44580009	1.188094829	0.24865
EMX2	29.04392867	24.44580009	1.188094829	0.24865
PSMA6P1	51.44924507	43.33573653	1.187224429	0.247593
WDR27	463.0432056	390.0216287	1.187224429	0.247593
PAQR7	125.3038065	105.5614095	1.187022863	0.247348
HSD17B7	170.1144393	143.3412824	1.186779109	0.247051
OCRL	1336.850545	1126.72915	1.186487938	0.246697
ANKRD18A	698.7139411	588.9215477	1.186429574	0.246626
MRRF	230.6917763	194.455228	1.186349057	0.246529
SIVA1	329.4411337	277.7931829	1.185922312	0.24601
CSNK1E	143.5599903	121.1178277	1.185291984	0.245242
UQCRHL	60.57733694	51.11394565	1.18514304	0.245061
ELP6	219.9040313	185.5658462	1.185045826	0.244943
NELFCD	857.210809	723.3734482	1.185018349	0.244909
TSHZ1	394.9974299	333.3518194	1.184926576	0.244798
BIN3	98.74935747	83.33795486	1.184926576	0.244798
MYOF	2374.963538	2004.555608	1.184783066	0.244623
ENSG000001	38.17202053	32.22400921	1.184583218	0.24438
COX20P1	38.17202053	32.22400921	1.184583218	0.24438
RND3	492.0871343	415.5786016	1.184101232	0.243792
SHLD2	469.6818179	396.6886651	1.184006147	0.243677
RNF20	1002.430452	846.7136214	1.183907318	0.243556
ALG8	501.2152262	423.3568107	1.183907318	0.243556
FKBP14	69.7054288	58.89215477	1.183611452	0.243196
ZDHHC2	632.3278184	534.4740838	1.183084152	0.242553
POP4	360.1447155	304.4613284	1.182891494	0.242318
ZNF613	252.2672661	213.3451644	1.182437234	0.241764
IGDCC4	15.76670413	13.33407278	1.182437234	0.241764
CLEC12A	15.76670413	13.33407278	1.182437234	0.241764
AFG1L	78.83352067	66.67036389	1.182437234	0.241764
TWF1P1	78.83352067	66.67036389	1.182437234	0.241764
TVP23C	302.0568581	255.5697282	1.181896073	0.241103
PIK3R4	1648.865322	1395.632951	1.181446254	0.240554
RBM28	568.4311754	481.1377927	1.181431149	0.240536
SDC3	566.7715223	480.02662	1.180708525	0.239653
SEPTIN10	842.2739314	713.3728936	1.180692369	0.239633
SART1	585.027706	495.5830382	1.180483715	0.239378
EPSTI1	40.66150013	34.44635467	1.180429701	0.239312
GMEB1	409.1044809	346.6858922	1.180043636	0.23884
KIFAP3	1055.53935	894.4940488	1.180040663	0.238837
IRAK4	131.1125923	111.1172731	1.179947893	0.238723
LARP4	714.4806452	605.5891386	1.179810865	0.238556
LGR6	90.45109214	76.67091847	1.179731428	0.238458
SBDS	682.947237	578.9209931	1.17968988	0.238408
BMPR2	2603.995662	2207.900217	1.17939916	0.238052
SNAPC5	74.684388	63.33684569	1.179161785	0.237762
LRRC66	108.7072759	92.22733671	1.178688226	0.237182
ATXN7L1	912.8091867	774.4873938	1.178597862	0.237072
ZNF607	344.3780113	292.2384284	1.178414534	0.236847
MTMR1	546.025859	463.359029	1.178407724	0.236839
LEMD3	598.3049306	507.8059383	1.178215703	0.236604
ABCA12	362.6341951	307.7948466	1.178168508	0.236546
FAM171B	607.4330224	515.5841474	1.178145266	0.236517
ZNF398	244.7988273	207.7893008	1.178110838	0.236475
ZNF594	709.501686	602.2556204	1.178073997	0.23643
TRMT12	414.9132667	352.2417559	1.177921867	0.236244
DNAH14	1914.409812	1625.645706	1.177630406	0.235887
SRL	43.15097974	36.66870014	1.17677964	0.234844
MFGE8	633.9874715	538.9187747	1.176406355	0.234386
STAMBP	347.6973175	295.5719466	1.176354257	0.234323
FZD3	507.0240119	431.1350198	1.176021405	0.233914
KIAA2026	4074.448279	3465.747749	1.175633247	0.233438
CLYBL	70.53525534	60.0033275	1.175522396	0.233302
AGBL4	150.1986025	127.7848641	1.175402138	0.233154
CBLL1	587.5171856	500.0277291	1.174969209	0.232623
CDHR1	241.4795212	205.5669553	1.174700091	0.232292
REEP1	134.4318984	114.4507913	1.174582516	0.232148
CADPS2	1076.285014	916.7175034	1.174063994	0.231511
UQCC1	399.1465625	340.0188558	1.173895376	0.231304
MADD	1902.792241	1621.201015	1.173692974	0.231055
STX7	374.2517665	318.9065739	1.173546729	0.230875
ENSG000002	18.25618373	15.55641824	1.173546729	0.230875
ENSG000002	18.25618373	15.55641824	1.173546729	0.230875
PTPMT1	9.128091867	7.77820912	1.173546729	0.230875
FGF1	9.128091867	7.77820912	1.173546729	0.230875
MFAP2	9.128091867	7.77820912	1.173546729	0.230875
COX7A1	9.128091867	7.77820912	1.173546729	0.230875
PHKG1	9.128091867	7.77820912	1.173546729	0.230875
ENSG000002	9.128091867	7.77820912	1.173546729	0.230875
ENSG000002	9.128091867	7.77820912	1.173546729	0.230875
OCLNP1	9.128091867	7.77820912	1.173546729	0.230875
PAICSP4	9.128091867	7.77820912	1.173546729	0.230875
KIF23-AS1	9.128091867	7.77820912	1.173546729	0.230875
ENSG000002	9.128091867	7.77820912	1.173546729	0.230875
ZNG1E	310.3551235	264.4591101	1.173546729	0.230875
ESM1	27.3842756	23.33462736	1.173546729	0.230875
GPI	1687.867169	1438.968687	1.172970047	0.230166
DOP1A	809.08087	690.0382662	1.172515945	0.229608
PHKG2	260.5655315	222.2345463	1.172479868	0.229563
MIEN1	130.2827657	111.1172731	1.172479868	0.229563
TRIAP1	102.8984901	87.78264578	1.172196272	0.229214
MAFK	66.38612267	56.6698093	1.171454845	0.228301
TBL1XR1	3528.42242	3014.61162	1.170440131	0.227051
MICU2	678.7981043	580.0321658	1.170276658	0.22685
RTKN	234.0110824	200.0110917	1.169990526	0.226497

FBXW9	74.84368431	74.684388	0.997871613	-0.003074
PLPP6	108.9635992	108.7072759	0.997647624	-0.003398
ZNF433	289.4689555	288.7796336	0.997618667	-0.00344
RNF113A	139.7815869	139.4108576	0.997347796	-0.003831
INVS	729.725922	727.7578698	0.997303025	-0.003896
ENSG000002	34.11991491	34.02288787	0.997156293	-0.004108
BAK1	102.3597447	102.0686636	0.997156293	-0.004108
GPX7	64.93790256	64.7264696	0.996744075	-0.004705
STAU2P1	64.93790256	64.7264696	0.996744075	-0.004705
HMGXB4	420.445403	419.0623993	0.996710622	-0.004753
DDX59	803.4689639	800.7826047	0.996656549	-0.004832
MRTFB	2565.597472	2556.695549	0.996530273	-0.005014
EZR	1978.955065	1971.667843	0.996317642	-0.005322
STON1	30.81798766	30.70358173	0.99628769	-0.005366
ZNF226	390.7280578	389.1886441	0.996060141	-0.005695
LINC01278	239.9400468	238.9900416	0.996040656	-0.005723
C2orf76	113.3661689	112.8564085	0.995503417	-0.006502
ZNF701	336.7965794	335.2499195	0.995407733	-0.006641
RNF20	1007.087811	1002.430452	0.99537542	-0.006687
RPS5	1227.216294	1221.504657	0.995345859	-0.00673
NR4A1	275.1606041	273.842756	0.995210622	-0.006926
LRRC39	55.03212081	54.7685512	0.995210622	-0.006926
TMEM255A	27.51606041	27.3842756	0.995210622	-0.006926
TAMALIN	27.51606041	27.3842756	0.995210622	-0.006926
ENSG000002	27.51606041	27.3842756	0.995210622	-0.006926
ERV3-1	1001.584599	996.6216666	0.99504492	-0.007166
BTF3	864.0042968	859.7002886	0.995018534	-0.007205
DRG1	402.8351244	400.8062156	0.994963426	-0.007285
ZNF581	51.73019357	51.44924507	0.994568965	-0.007857
ZNF432	465.5717421	463.0432056	0.994568965	-0.007857
TBRG4	227.8329802	226.5426436	0.99433648	-0.008194
PRDX1	773.7516187	769.2491964	0.99418105	-0.008419
RBM25	1843.576047	1830.597333	0.992960033	-0.010192
ARHGDIA	1123.755907	1115.286861	0.992463625	-0.010914
ENSG000002	20.91220591	20.74566333	0.992036107	-0.011535
EIF4G1	6697.409103	6641.931573	0.991716568	-0.012
GLG1	3567.182071	3537.550512	0.991693286	-0.012034
SLC38A7	77.04496914	76.34404107	0.990902351	-0.013185
ST6GALNAC	38.52248457	38.17202053	0.990902351	-0.013185
ITM2A	38.52248457	38.17202053	0.990902351	-0.013185
SERTAD1	38.52248457	38.17202053	0.990902351	-0.013185
ODAD4	73.74304189	73.02473494	0.990259326	-0.014122
BCOR	3013.558936	2984.056214	0.990210007	-0.014194
RAMAC	165.0963624	163.4758271	0.990184306	-0.014231
HOMER1	274.0599617	271.3532764	0.990123748	-0.014319
UNC50	562.4282747	556.8136039	0.99001709	-0.014475
MLIP	17.61027866	17.4263572	0.989556016	-0.015147
ENSG000002	17.61027866	17.4263572	0.989556016	-0.015147
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FAM86C2P.1	17.61027866	17.4263572	0.989556016	-0.015147
LNX1	52.83083598	52.2790716	0.989556016	-0.015147
MCCC1	1064.321217	1053.049871	0.989409827	-0.01536
RSPRY1	627.3661773	620.710247	0.989390677	-0.015388
PIGG	345.6017187	341.8885317	0.989255878	-0.015584
SNRNP35	275.1606041	272.1831029	0.989179043	-0.015696
FGD6	1336.179893	1321.083841	0.988702081	-0.016392
CAPZA2	707.7130737	699.5437676	0.988456754	-0.01675
FTSJ1	212.4239863	209.9461129	0.988335247	-0.016928
PHLDB1	1299.858694	1284.571474	0.988239322	-0.017068
LYAR	209.1220591	206.6268068	0.988067962	-0.017318
LMLN	209.1220591	206.6268068	0.988067962	-0.017318
SNCG	31.91863007	31.53340827	0.98793113	-0.017518
SPATA5L1	127.6745203	126.1336331	0.98793113	-0.017518
BCKDK	298.2740948	294.5884193	0.987643327	-0.017938
ABCB10	326.8907976	322.8025215	0.98749345	-0.018157
PTPRJ	1119.353337	1105.328942	0.987470985	-0.01819
CAPN1	806.7708911	796.633472	0.987434575	-0.018243
PXMP4	263.0535375	259.7357049	0.987387235	-0.018312
TMUB1	213.5246288	210.7759395	0.987127062	-0.018692
GGCX	434.7537544	429.0203178	0.98681222	-0.019153
TGIF1	670.2912315	661.3717471	0.986693121	-0.019327
POFUT2	253.1477557	249.7777865	0.986687738	-0.019335
ADSL	89.15203572	87.96161254	0.986647269	-0.019394
LEMD3	606.4539714	598.3049306	0.986562804	-0.019517
WASHC3	482.0813783	475.4906036	0.986328502	-0.01986
MFN1	785.8586852	775.0579822	0.986256176	-0.019966
ZNF583	217.9271984	214.9250721	0.986224178	-0.020012
MEN1	739.6317038	729.4175228	0.98619018	-0.020062
PRR34-AS1	28.61670282	28.21410213	0.985931269	-0.020441
GMPR2	14.30835141	14.10705107	0.985931269	-0.020441
DCDC2C	14.30835141	14.10705107	0.985931269	-0.020441
BCKDHA	14.30835141	14.10705107	0.985931269	-0.020441
ZNF524	85.85010847	84.6423064	0.985931269	-0.020441
DNAI1	42.92505424	42.3211532	0.985931269	-0.020441
ALKBH4	42.92505424	42.3211532	0.985931269	-0.020441
CTU2	42.92505424	42.3211532	0.985931269	-0.020441
PPIB	1839.173478	1813.170975	0.985861854	-0.020543
PAG1	311.4818038	307.0358173	0.985726336	-0.020741
C5orf15	522.8051477	515.3222772	0.985687076	-0.020798
TNFRSF19	154.0899383	151.8582556	0.985517012	-0.021047
MED12	1822.663841	1795.744618	0.985230835	-0.021466
PSMD7	725.3233523	714.4806452	0.985051209	-0.021729
DNAJB2	395.1306275	389.1886441	0.984961977	-0.02186
RPS6	6775.554715	6672.635155	0.984810165	-0.022082
RSAD1	107.8629568	106.2177963	0.984747678	-0.022174
MAPKAPK2	1061.019289	1044.751606	0.984667872	-0.022291
HLCS	611.9571835	602.4540632	0.984470939	-0.022579
PTK7	1166.680961	1148.479922	0.9843993	-0.022684
MACIR	118.869381	117.0055412	0.98432027	-0.0228
FBXO7	1070.925071	1053.879697	0.984083505	-0.023147
NAA16	400.6338395	394.1676033	0.983859985	-0.023475

SERTAD4	2.201284833	1.111172731	0.504783713	-0.986263
ABCC6	2.201284833	1.111172731	0.504783713	-0.986263
RPS10P5	2.201284833	1.111172731	0.504783713	-0.986263
YWHAE	2.201284833	1.111172731	0.504783713	-0.986263
HPCAL4	2.201284833	1.111172731	0.504783713	-0.986263
TECTB	2.201284833	1.111172731	0.504783713	-0.986263
NEUROD4	2.201284833	1.111172731	0.504783713	-0.986263
WNT1	2.201284833	1.111172731	0.504783713	-0.986263
BARHL1	2.201284833	1.111172731	0.504783713	-0.986263
GDF5	2.201284833	1.111172731	0.504783713	-0.986263
RGS13	2.201284833	1.111172731	0.504783713	-0.986263
PYY	2.201284833	1.111172731	0.504783713	-0.986263
DYDC2	2.201284833	1.111172731	0.504783713	-0.986263
DMRTB1	2.201284833	1.111172731	0.504783713	-0.986263
FAM163A	2.201284833	1.111172731	0.504783713	-0.986263
GAS2	2.201284833	1.111172731	0.504783713	-0.986263
RIT2	2.201284833	1.111172731	0.504783713	-0.986263
OR3A3	2.201284833	1.111172731	0.504783713	-0.986263
LCN1	2.201284833	1.111172731	0.504783713	-0.986263
CLDN19	2.201284833	1.111172731	0.504783713	-0.986263
FMC1	2.201284833	1.111172731	0.504783713	-0.986263
C19orf33	2.201284833	1.111172731	0.504783713	-0.986263
OR2C1	2.201284833	1.111172731	0.504783713	-0.986263
UGT3A2	2.201284833	1.111172731	0.504783713	-0.986263
OR4K15	2.201284833	1.111172731	0.504783713	-0.986263
GPR37L1	2.201284833	1.111172731	0.504783713	-0.986263
FAM88B	2.201284833	1.111172731	0.504783713	-0.986263
OR52A5	2.201284833	1.111172731	0.504783713	-0.986263
MYEOV	2.201284833	1.111172731	0.504783713	-0.986263
TMEM196	2.201284833	1.111172731	0.504783713	-0.986263
OR8G2P	2.201284833	1.111172731	0.504783713	-0.986263
NF1P3	2.201284833	1.111172731	0.504783713	-0.986263
S100A7A	2.201284833	1.111172731	0.504783713	-0.986263
B3GALT5-AS	2.201284833	1.111172731	0.504783713	-0.986263
IFNE	2.201284833	1.111172731	0.504783713	-0.986263
C5orf47	2.201284833	1.111172731	0.504783713	-0.986263
SEPTIN7P13	2.201284833	1.111172731	0.504783713	-0.986263
SLC24A5	2.201284833	1.111172731	0.504783713	-0.986263
NYX	2.201284833	1.111172731	0.504783713	-0.986263
SCGB1D4	2.201284833	1.111172731	0.504783713	-0.986263
BMS1P9	2.201284833	1.111172731	0.504783713	-0.986263
RNU1-124P	2.201284833	1.111172731	0.504783713	-0.986263
IQANK1	2.201284833	1.111172731	0.504783713	-0.986263
SMIM5	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
SPINK9	2.201284833	1.111172731	0.504783713	-0.986263
LINC02934	2.201284833	1.111172731	0.504783713	-0.986263
PCDHA8	2.201284833	1.111172731	0.504783713	-0.986263
PCDHA4	2.201284833	1.111172731	0.504783713	-0.986263
MIR619	2.201284833	1.111172731	0.504783713	-0.986263
LINC02656	2.201284833	1.111172731	0.504783713	-0.986263
HMGB3P6	2.201284833	1.111172731	0.504783713	-0.986263
CNN2P9	2.201284833	1.111172731	0.504783713	-0.986263
YWHAZP5	2.201284833	1.111172731	0.504783713	-0.986263
RPS3P6	2.201284833	1.111172731	0.504783713	-0.986263
HNRNPA1P3	2.201284833	1.111172731	0.504783713	-0.986263
KLRK1	2.201284833	1.111172731	0.504783713	-0.986263
HNRNPA1P4	2.201284833	1.111172731	0.504783713	-0.986263
NT5DC1P2	2.201284833	1.111172731	0.504783713	-0.986263
RPS12P16	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
RN7SKP30	2.201284833	1.111172731	0.504783713	-0.986263
MEG9	2.201284833	1.111172731	0.504783713	-0.986263
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ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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UQCRFS1P1	2.201284833	1.111172731	0.504783713	-0.986263
HNRNPA1P3	2.201284833	1.111172731	0.504783713	-0.986263
ACTG1P24	2.201284833	1.111172731	0.504783713	-0.986263
LINC02909	2.201284833	1.111172731	0.504783713	-0.986263
FTH1P20	2.201284833	1.111172731	0.504783713	-0.986263
IGBP1P1	2.201284833	1.111172731	0.504783713	-0.986263
MAGOH-DT	2.201284833	1.111172731	0.504783713	-0.986263
PAICSP3	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
LMCD1-AS1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
FCF1P1	2.201284833	1.111172731	0.504783713	-0.986263
LINC01132	2.201284833	1.111172731	0.504783713	-0.986263
HNRNPA1P1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
RPL23AP74	2.201284833	1.111172731	0.504783713	-0.986263
CDPF1P1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
SNRPD2P1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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RPL34P11	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
RPL7P32	2.201284833	1.111172731	0.504783713	-0.986263
YBX1P2	2.201284833	1.111172731	0.504783713	-0.986263
LARP1BP1	2.201284833	1.111172731	0.504783713	-0.986263
PRDX3P2	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
MYO18B-AS	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
GSTO3P	2.201284833	1.111172731	0.504783713	-0.986263

GLA	156.0073883	133.3407278	1.169990526	0.226497
ANKRD28	2373.303885	2029.001408	1.169690606	0.226127
MAPK7	532.7486344	455.5808199	1.16938337	0.225748
CXADR	705.3525534	603.3667932	1.169027798	0.225309
HHEX	29.8737552	25.55697282	1.168908204	0.225162
KRT18	880.4459519	753.3751119	1.168668752	0.224866
SC5D	897.0424826	767.8203574	1.168297342	0.224407
METTL14	342.7183583	293.3496011	1.168293248	0.224402
GSTO1	181.7320108	155.5641824	1.168212425	0.224303
PPIP5K1	181.7320108	155.5641824	1.168212425	0.224303
IRF2BPL	2485.330467	2127.895781	1.167975655	0.22401
ERCC6L2	1116.116687	955.608549	1.167964318	0.223996
ECD	1061.348136	908.9392943	1.167677691	0.223642
IFT80	92.1107452	78.89326393	1.167536246	0.223467
ARL8B	605.7733694	518.9176656	1.167378583	0.223273
TGIF1	661.3717471	566.698093	1.167061889	0.222881
L3MBTL1	82.98265334	71.11505481	1.166878849	0.222655
VNN3P	20.74566333	17.7787637	1.166878849	0.222655
ETV2	20.74566333	17.7787637	1.166878849	0.222655
PLSCR2	20.74566333	17.7787637	1.166878849	0.222655
DNAAF11	426.5308382	365.5758286	1.16673698	0.222479
TALDO1	719.4596044	616.7008659	1.166626551	0.222343
PRKCE	375.9114196	322.2400921	1.166556952	0.222257
ODF2	807.421217	692.2606117	1.16635441	0.222006
ATXN2L	3379.053644	2897.938484	1.166019798	0.221592
SPAG9	3128.446031	2683.482146	1.165815854	0.22134
ARID4B	1941.794088	1665.647924	1.165789036	0.221307
CAPG	97.0897044	83.33795486	1.165011843	0.220345
GLYATL1	32.3632348	27.77931829	1.165011843	0.220345
H4C4	32.3632348	27.77931829	1.165011843	0.220345
TMEM203	173.4337455	148.897146	1.164788917	0.220069
MTOR	3637.959522	3123.506548	1.164703664	0.219963
AIFM2	337.7393991	290.0160829	1.164554033	0.219778
MTRR	425.7010116	365.5758286	1.164467063	0.21967
MFN1	775.0579822	665.5924661	1.164463274	0.219665
RIT1	273.0129295	234.4574463	1.164445548	0.219643
BRPF1	809.9106966	695.5941299	1.164343777	0.219517
XPO4	733.5666555	630.0349387	1.164326945	0.219496
RAB40C	231.5216028	198.8999189	1.164010544	0.219104
HSPBAP1	243.1391743	208.9004735	1.163899584	0.218967
FKBP10	365.9535012	314.461883	1.163745182	0.218775
SNX24	111.1967555	95.5608549	1.163622443	0.218623
HMBOX1	567.6013488	487.8048291	1.163582882	0.218574
RAB11A	1146.820269	985.6102128	1.163563703	0.21855
APMAP	3220.556776	2767.931274	1.163524834	0.218502
EIF2AK3	713.6508187	613.3673478	1.163496592	0.218467
SLC25A44	215.7548987	185.5658462	1.16268647	0.217462
LONRF2	364.2938481	313.3507103	1.162577466	0.217324
CAPN7	1441.408688	1240.068768	1.162361899	0.217059
SUCLA2	366.7833277	315.5730557	1.162277074	0.216954
PAK1	1072.965708	923.3845398	1.161992281	0.2166
PRMT9	473.8309506	407.8003924	1.161918819	0.216509
C19orf73	23.23514293	20.00110917	1.161692721	0.216229
IGDCC3	11.61757147	10.00055458	1.161692721	0.216229
NUP133	1534.34926	1321.184378	1.161343781	0.215795
CABLES1	304.5463377	262.2367646	1.161341119	0.215792
RPS6KA5	1278.762688	1101.172177	1.161274063	0.215708
PSMD8	965.0882583	831.1572031	1.161138055	0.21554
TRIP12	8538.915028	7354.852309	1.160990686	0.215356
PEX12	107.0476228	92.22733671	1.160692986	0.214986
PARD6B	263.0550111	226.6792372	1.160472456	0.214712
TMEM41A	144.3898168	124.4513459	1.16021097	0.214387
IFT22	204.9671537	176.6764643	1.160127098	0.214283
ZNF727	193.3495823	166.6759097	1.16003316	0.214166
KAZN	394.1676033	340.0188558	1.15925219	0.213194
TRMT11	258.9058784	223.345719	1.159215764	0.213149
ATP4A	37.342194	32.22400921	1.158831409	0.212671
UBFD1	355.1657563	306.6836739	1.15808498	0.211741
ZNF425	88.79143907	76.67091847	1.15808498	0.211741
ARHGAP21	2974.928122	2569.031355	1.157996035	0.21163
ZNF189	523.6205426	452.2473017	1.157819053	0.21141
ETFDH	703.6929003	607.8114841	1.157748609	0.211322
ENSG000002	25.72462253	22.22345463	1.157543819	0.211067
REPS1	1464.643831	1265.625741	1.157248769	0.210699
NEMP2	142.7301637	123.3401732	1.157207421	0.210647
TENT5A	727.7578698	628.923766	1.157147987	0.210573
ATP6V1F	156.8372148	135.5630732	1.156931685	0.210304
RNF181	327.7814807	283.3490465	1.156811659	0.210154
SWT1	367.6131543	317.7954012	1.156760459	0.21009
SSR3	794.1439924	686.704748	1.156456242	0.209711
SVIL2P	39.8316736	34.44635467	1.156339299	0.209565
DHX15	3244.621745	2806.82232	1.155976893	0.209113
MRPL16	544.3662059	471.1372381	1.155430227	0.20843
PIEZO2	136.0915515	117.7843095	1.155430227	0.20843
ASXL3	82.1528268	71.11505481	1.155210061	0.208155
EIF4G2	8595.343233	7441.523782	1.155051503	0.207957
RNF4	166.7951332	144.4524551	1.154671501	0.207482
INHBB	364.2938481	315.5730557	1.154388315	0.207129
PRKCB	126.9634596	110.0061004	1.154149262	0.20683
USPL1	493.7467874	427.8015016	1.154149262	0.20683
PSMG3	42.3211532	36.66870014	1.154149262	0.20683
CNTN6	14.10705107	12.22290005	1.154149262	0.20683
ZCWPW2	14.10705107	12.22290005	1.154149262	0.20683
SECISBP2	1272.124076	1102.28335	1.154080823	0.206744
CNP	743.5245739	644.4801842	1.153681047	0.206244
GPC1	1308.636443	1134.507359	1.153484315	0.205998
C2orf68	365.1236747	316.6842285	1.152958189	0.20534
INTS10	888.7442172	771.1538756	1.152486223	0.20475
SDR42E1	148.5389495	128.8960368	1.152393457	0.204633
FOXD3	44.8106328	38.8910456	1.152209515	0.204403
TBC1D10B	599.1347571	520.0288383	1.152118331	0.204289

MRPL20	321.3875856	316.1639092	0.98374649	-0.023642
SYNJ1	932.2441266	916.9583194	0.983603214	-0.023852
SEPTIN8	292.7708827	287.9498071	0.98353294	-0.023955
HSPA8	9745.087954	9584.49646	0.983520775	-0.023973
DMBT1	25.31477557	24.894796	0.983409706	-0.024136
ZNF776	506.2955115	497.89592	0.983409706	-0.024136
UBE3A	1703.79446	1675.419771	0.983346178	-0.024229
FLVCR1	390.7280578	384.2096849	0.983317367	-0.024271
ARID1A	7060.621101	6942.328778	0.983246187	-0.024375
MRPS31	300.4753796	295.4182459	0.983169557	-0.024488
STX5	445.7601786	438.1484096	0.982924071	-0.024848
PCNX4	1801.751635	1770.849822	0.982849016	-0.024958
SNX27	652.6809529	641.4559103	0.982801639	-0.025028
CCDC47	1668.573903	1639.73723	0.982717773	-0.025151
RETREG1	97.95717505	96.25987787	0.982673069	-0.025217
ZNF107	377.5203488	370.9324604	0.982549581	-0.025398
CASP6	315.8843735	310.3551235	0.982495969	-0.025477
IGFBP5	6875.713175	6754.787982	0.982412705	-0.025599
KAT2B	421.5460454	414.0834401	0.982297058	-0.025769
RBM22	331.2933673	325.2920011	0.98188504	-0.026374
SHLD1	47.3276239	46.47028587	0.98188504	-0.026374
PAPSS2	105.661672	103.7283167	0.981702397	-0.026642
ATP5MC2	878.3126482	862.1897682	0.981643348	-0.026729
AP2A2	58.33404806	57.2580308	0.981554216	-0.02686
ARSJ	1057.717362	1038.112993	0.981465399	-0.026991
CCNDBP1	219.0278408	214.9250721	0.981268278	-0.02728
SLF2	965.2633991	946.8320746	0.980905394	-0.027814
SYAP1	687.9015102	674.6489716	0.980734831	-0.028065
RBAK	380.822276	373.42194	0.980567481	-0.028311
DLD	890.4197148	872.9775131	0.980411258	-0.028541
ADAM19	322.488228	316.1639092	0.980388993	-0.028574
BLZF1	388.526773	380.8903788	0.980345256	-0.028638
CPTP	44.02569665	43.15097974	0.980131673	-0.028953
TNFSF12	44.02569665	43.15097974	0.980131673	-0.028953
TMEM91	33.01927249	32.3632348	0.980131673	-0.028953
KDM7A-DT	22.01284833	21.57548987	0.980131673	-0.028953
ENSG000002	22.01284833	21.57548987	0.980131673	-0.028953
ARPC1B	11.00642416	10.78774493	0.980131673	-0.028953
SPATA22	11.00642416	10.78774493	0.980131673	-0.028953
ARMC12	11.00642416	10.78774493	0.980131673	-0.028953
CHKB-DT	11.00642416	10.78774493	0.980131673	-0.028953
ACTN3	11.00642416	10.78774493	0.980131673	-0.028953
ENSG000002	11.00642416	10.78774493	0.980131673	-0.028953
AMZ2P1.1	11.00642416	10.78774493	0.980131673	-0.028953
C1orf162	121.0706658	118.6651943	0.980131673	-0.028953
NSUN6	636.1713166	623.1997266	0.979609911	-0.029721
VWF	1070.925071	1048.900738	0.979434291	-0.029979
WDR48	971.8672536	951.8110338	0.979363211	-0.030084
UBE2O	538.2141416	526.9398487	0.979052403	-0.030542
NUP98	2488.552503	2436.370702	0.979031264	-0.030573
FLOT2	756.14134	740.2052678	0.97892448	-0.030731
TRMT1	188.2098532	184.2214904	0.978808959	-0.030901
OST4	730.8265644	715.3104718	0.978769118	-0.03096
ZBTB17	291.6702403	285.4603275	0.978709131	-0.031048
NMT2	451.2633907	441.4677158	0.978292777	-0.031662
RPL27	1032.402586	1009.898891	0.978202597	-0.031795
VEGFB	325.7901552	318.6533888	0.978093978	-0.031955
SNRNP48	162.8950776	159.3266944	0.978093978	-0.031955
RAB17	81.44753881	79.6633472	0.978093978	-0.031955
CTPS2	570.1327716	557.6434304	0.978093978	-0.031955
TTC27	648.2783832	633.9874715	0.977955594	-0.032159
SETD5	4491.721701	4390.612188	0.977489809	-0.032846
ENSG000002	29.71734524	29.04392867	0.977339276	-0.033069
LRRC27	148.5867262	145.2196433	0.977339276	-0.033069
MAP3K2	1108.346913	1082.923626	0.977061977	-0.033478
SLC25A35	126.5738779	123.6441535	0.976853641	-0.033786
MYH15	48.42826632	47.3001124	0.97670464	-0.034006
ZNF330	376.4197064	367.6131543	0.976604434	-0.034154
CCDC6	2151.755924	2101.120782	0.97646799	-0.034355
SYNE3	123.2719506	120.3248473	0.976092669	-0.03491
ATG14	254.2483982	248.1181335	0.975888679	-0.035212
MSH3	893.721642	872.1476866	0.975860543	-0.035253
PRPF3	909.1306359	887.0845642	0.975750381	-0.035416
ANG	18.71092108	18.25618373	0.975696689	-0.035495
LYSMD2	56.13276323	54.7685512	0.975696689	-0.035495
UBQLN2	719.8201403	702.0332472	0.975289809	-0.036097
WDR35	1289.952912	1258.017025	0.975242594	-0.036167
TTC1	753.9400552	735.2263086	0.975178734	-0.036261
TRIM41	683.4989405	666.3507063	0.974911103	-0.036657
ZNF554	217.9271984	212.4355925	0.974800732	-0.036821
ISG20	90.25267814	87.96161254	0.974614985	-0.037096
PPP1R37	309.280519	301.2270316	0.973960573	-0.038065
OR52H1	26.41541799	25.72462253	0.973848778	-0.03823
PKD1L3	26.41541799	25.72462253	0.973848778	-0.03823
ASB3	509.5974387	496.236267	0.973780928	-0.038331
STX17	438.0556817	426.5308382	0.973690916	-0.038464
CPSF6	1624.548206	1581.649373	0.973593376	-0.038609
TXNRD3	208.0214167	202.4776741	0.973350136	-0.038969
RPL26	121.0706658	117.8353677	0.973277606	-0.039077
FN1	19437.34507	18917.55548	0.9732582	-0.039105
ZNF431	620.7623228	604.1137163	0.973180385	-0.039221
PRKD2	671.3918739	653.0734818	0.972715797	-0.03991
EIF4E3	110.0642416	107.0476228	0.972592199	-0.040093
SKIL	1150.171325	1118.606167	0.972556125	-0.040147
NDNF	2353.173486	2287.831752	0.972232505	-0.040627
UBE3C	1429.734499	1389.959443	0.972180111	-0.040704
CTSZ	1700.492533	1653.014454	0.972079808	-0.040853
ZNF626	175.0021442	170.1144393	0.9720706	-0.040867
CDC73	1571.71737	1527.710648	0.972000868	-0.04097
PABPC4L	148.5867262	144.3898168	0.97175448	-0.041336
TAF1	3219.379068	3128.446031	0.97175448	-0.041336

RPL7P14	2.201284833	1.111172731	0.504783713	-0.986263	RHBDF1	741.0350943	643.3690115	1.151804145	0.203895	MIF4GD	49.52890873	48.12993894	0.97175448	-0.041336
NENFP1	2.201284833	1.111172731	0.504783713	-0.986263	CLMN	1663.802199	1444.524551	1.151799184	0.203889	AIMP1	427.0492575	414.9132667	0.971581754	-0.041593
NAP1L4P3	2.201284833	1.111172731	0.504783713	-0.986263	ARHGAP35	5617.095804	4878.048291	1.151504755	0.20352	MAX	499.691657	485.448522	0.971496152	-0.04172
ACBD3-AS1	2.201284833	1.111172731	0.504783713	-0.986263	AREL1	1020.686636	886.7158397	1.151086504	0.202996	NRDE2	744.0342734	722.7789106	0.97143228	-0.041815
HM13-IT1	2.201284833	1.111172731	0.504783713	-0.986263	RPL35A	2088.673384	1814.54507	1.15107275	0.202979	PEX7	236.6381195	229.8619497	0.971364843	-0.041915
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	PIGU	581.7083999	505.5835928	1.150568191	0.202346	ODR4	454.5653179	441.4677158	0.971186534	-0.04218
ANAPC1P6	2.201284833	1.111172731	0.504783713	-0.986263	TMEM160	47.3001124	41.11339106	1.150479471	0.202235	MYO1C	1555.207734	1510.284291	0.971114185	-0.042287
LINC00494	2.201284833	1.111172731	0.504783713	-0.986263	ENSG000002	47.3001124	41.11339106	1.150479471	0.202235	ZNF574	485.3833056	471.341471	0.971070627	-0.042352
HNRNPA1P2	2.201284833	1.111172731	0.504783713	-0.986263	MRPL52	175.0933985	152.2306642	1.150184816	0.201866	RAB3GAP2	1984.458277	1926.85721	0.970973909	-0.042496
DAPK1-IT1	2.201284833	1.111172731	0.504783713	-0.986263	KCNJ8	302.8866847	263.3479374	1.150138815	0.201808	PWWP3A	604.2526865	586.6873591	0.970930493	-0.04256
LINC03011	2.201284833	1.111172731	0.504783713	-0.986263	SRRD	208.2864599	181.1211552	1.149984162	0.201614	PRMT7	241.0406892	234.0110824	0.970836431	-0.0427
ADGB-DT	2.201284833	1.111172731	0.504783713	-0.986263	TMEM9	721.949084	627.8125933	1.149943617	0.201563	GNB2	753.9400552	731.9070024	0.970776121	-0.042789
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	CMTM7	224.8829905	195.5664007	1.149906066	0.201516	TFDP2	796.8651094	773.3983291	0.970551126	-0.043124
EXOS-DT	2.201284833	1.111172731	0.504783713	-0.986263	PARP4	1929.34669	1677.870824	1.149877966	0.201481	MYBBP1A	797.9657518	774.2281556	0.970252362	-0.043568
RPS14P8	2.201284833	1.111172731	0.504783713	-0.986263	DCBLD1	160.9863475	140.0077642	1.149838714	0.201432	NR1H2	353.3062156	342.7183583	0.970032066	-0.043896
RPL21P39	2.201284833	1.111172731	0.504783713	-0.986263	BCL2L2	177.5828781	154.4530097	1.149753433	0.201325	IGSF3	860.7023695	834.8054926	0.969911926	-0.044074
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	GHITM	1809.021843	1573.420588	1.149738256	0.201305	NBPF8	226.7323378	219.9040313	0.969883844	-0.044116
RPL17P38	2.201284833	1.111172731	0.504783713	-0.986263	RPS23	1034.793687	900.0499125	1.149707003	0.201266	UBR3	2940.916536	2852.113795	0.969804399	-0.044234
RPL5P1	2.201284833	1.111172731	0.504783713	-0.986263	KATNBL1	97.0897044	84.44912759	1.14968274	0.201236	ZNF14	254.2483982	246.4584804	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	IFNAR1	1350.12777	1174.509577	1.1495247	0.201037	ZNHIT6	462.2698148	448.106328	0.969360996	-0.044894
RBBP4P2	2.201284833	1.111172731	0.504783713	-0.986263	ZSCAN22	146.8792964	127.7848641	1.149426401	0.200914	CACNB3	223.4304105	216.5847252	0.969360996	-0.044894
RPL5P30	2.201284833	1.111172731	0.504783713	-0.986263	ZNF324B	180.0723577	156.6753551	1.149334288	0.200798	OLMALINC	23.11349074	22.4053164	0.969360996	-0.044894
RPL5P24	2.201284833	1.111172731	0.504783713	-0.986263	SPAG7	312.8446031	272.2373192	1.149161342	0.200581	FOXP1-IT1	23.11349074	22.4053164	0.969360996	-0.044894
PPIAP71	2.201284833	1.111172731	0.504783713	-0.986263	MCL1	1875.407965	1632.312742	1.148926867	0.200287	TOR2A	61.63597531	59.7475104	0.969360996	-0.044894
MALINC1	2.201284833	1.111172731	0.504783713	-0.986263	ENSG000002	66.38612267	57.78098203	1.148926867	0.200287	MAML1	30.81798766	29.8737552	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	ZNF230-DT	16.59653067	14.44524551	1.148926867	0.200287	CPO	15.40899383	14.9368776	0.969360996	-0.044894
LINC02481	2.201284833	1.111172731	0.504783713	-0.986263	TMEM164	317.8235623	276.6820101	1.148696159	0.199997	SPO11	7.704496914	7.4684388	0.969360996	-0.044894
STARD4-AS1	2.201284833	1.111172731	0.504783713	-0.986263	RPRD2	2713.532764	2362.353227	1.148656659	0.199948	NECAB1	7.704496914	7.4684388	0.969360996	-0.044894
TUBAP10	2.201284833	1.111172731	0.504783713	-0.986263	SNX3	1414.024413	1231.179386	1.148512092	0.199766	ITGAD	7.704496914	7.4684388	0.969360996	-0.044894
TMEM183AP	2.201284833	1.111172731	0.504783713	-0.986263	MICAL3	1053.879697	917.8286762	1.148231391	0.199413	JMJD7-PLA2	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	ZIK1	102.0686636	88.89381852	1.148208788	0.199385	FGA	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	ALOX12-AS	85.47213294	74.44857301	1.148069459	0.19921	FOXD4L1	7.704496914	7.4684388	0.969360996	-0.044894
SNX5P1	2.201284833	1.111172731	0.504783713	-0.986263	CCNT1	565.1118692	492.24952	1.148019137	0.199147	PEAK3	7.704496914	7.4684388	0.969360996	-0.044894
ABHD17AP3	2.201284833	1.111172731	0.504783713	-0.986263	YARS2	415.7430932	362.2423104	1.147693357	0.198737	FAM110D	7.704496914	7.4684388	0.969360996	-0.044894
LINC01182	2.201284833	1.111172731	0.504783713	-0.986263	UQCRC1	877.1266458	764.4868392	1.147340413	0.198293	CCER1	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	UBB	5075.219078	4423.578644	1.147310693	0.198256	ANXA2R-AS	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	KAT8	499.5555731	435.5797107	1.146875212	0.197708	GPR89P	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	TTLL9	35.68254093	31.11283648	1.146875212	0.197708	HBD	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	MYL12B	1810.681496	1578.976451	1.146743825	0.197543	KRT8P12	7.704496914	7.4684388	0.969360996	-0.044894
RNA5SP288	2.201284833	1.111172731	0.504783713	-0.986263	POGLUT1	240.6496947	210.0116462	1.145887378	0.196465	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
RNU7-40P	2.201284833	1.111172731	0.504783713	-0.986263	ZNF174	92.94057174	81.11560939	1.145779122	0.196329	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
LINC01847	2.201284833	1.111172731	0.504783713	-0.986263	SCN8A	414.9132667	362.2423104	1.145402552	0.195855	MIR222HG	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	TNIK	1500.326372	1310.07265	1.145223795	0.19563	SSTR3	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	OSR2	155.1775617	135.5630732	1.144689022	0.194956	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
PKIA-AS1	2.201284833	1.111172731	0.504783713	-0.986263	IQGAP2	291.2691132	254.4585555	1.144662291	0.194922	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	HEATR1	2158.378813	1885.660125	1.144627701	0.194878	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	CXorf38	97.91953094	85.56030032	1.144450529	0.194655	ENSG000002	7.704496914	7.4684388	0.969360996	-0.044894
GLYATL1P1	2.201284833	1.111172731	0.504783713	-0.986263	NKTR	1899.472935	1660.092061	1.144197349	0.194336	WIPI2	600.9507593	582.5382264	0.969360996	-0.044894
SLC39A13-A	2.201284833	1.111172731	0.504783713	-0.986263	ITGAV	1665.461852	1455.636278	1.144146981	0.194272	RUFY2	643.8758135	624.0295531	0.969176882	-0.045168
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	PAK3	59.7475104	52.22511838	1.144037817	0.194135	AMER1	474.3768814	459.7238995	0.969111096	-0.045266
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	FMO3	40.66150013	35.55752741	1.143541272	0.193508	CDC37	1122.655265	1087.902585	0.969044211	-0.045366
HNRNPABP1	2.201284833	1.111172731	0.504783713	-0.986263	METTL6	327.7814807	286.6825647	1.143360361	0.19328	ZNF207	1756.625296	1701.97422	0.968888598	-0.045597
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	SGPL1	2402.347814	2101.227635	1.143306786	0.193213	LIG4	537.1134992	520.3012364	0.968698864	-0.04588
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	BUD23	380.8903788	333.3518194	1.142607769	0.19233	BLVRB	410.5396213	397.4869095	0.968205963	-0.046614
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	RPS3	4188.96434	3666.870014	1.142381466	0.192044	UXS1	318.0856583	307.8656439	0.967870244	-0.047114
LINC02441	2.201284833	1.111172731	0.504783713	-0.986263	PRR14L	2897.754255	2536.807346	1.142283926	0.191921	MLLT10	1869.991465	1809.851669	0.967839534	-0.04716
PDE3A-AS1	2.201284833	1.111172731	0.504783713	-0.986263	RCN1	86.30195947	75.55974574	1.142168474	0.191775	MAT2B	749.5374855	725.2683902	0.967621239	-0.047486
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	TMEM167B	220.7338579	193.3440553	1.141663536	0.191138	BAMBI	268.5567496	259.7357049	0.96715389	-0.048183
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	RAB28	266.3743172	233.3462736	1.141540909	0.190983	AKAP8	409.4389789	395.8272564	0.966755187	-0.048777
LINC02457	2.201284833	1.111172731	0.504783713	-0.986263	ZDHHC16	266.3743172	233.3462736	1.141540909	0.190983	HADH	335.695937	324.4621745	0.9665359	-0.049105
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	AP5S1	67.2159492	58.89215477	1.141339614	0.190728	DIP2C	1406.621008	1359.255862	0.966327002	-0.049417
EIF3LP1	2.201284833	1.111172731	0.504783713	-0.986263	POLR1C	292.9287663	256.680901	1.141217618	0.190574	IGHMBP2	289.4689555	279.6515417	0.966084744	-0.049778
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	TOR1B	429.8501443	376.687556	1.141131788	0.190465	CAPN7	1492.471117	1441.408688	0.965786656	-0.050224
FOXN3-AS1	2.201284833	1.111172731	0.504783713	-0.986263	ENOX2	316.9937357	277.7931829	1.141114164	0.190443	IGBP1	313.6830886	302.8866847	0.965581811	-0.05053
MIDEAS-AS	2.201284833	1.111172731	0.504783713	-0.986263	LZTS3	273.842756	240.01331	1.140948208	0.190233	SLX4IP	298.2740948	287.9498071	0.965386576	-0.050821
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	TANC2	3067.868694	2690.149183	1.140408388	0.189551	COPA	4635.905857	4475.254494	0.965346284	-0.050882
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	RNF152	93.77039827	82.22678213	1.140387546	0.189524	FAM222B	961.9614718	928.5758908	0.965294264	-0.050959
LINC02254	2.201284833	1.111172731	0.504783713	-0.986263	ABHD12	1823.95872	1600.088733	1.139910983	0.188921	ZFR	4543.451894	4385.633229	0.96526459	-0.051004
AFTPH-DT	2.201284833	1.111172731	0.504783713	-0.986263	LYG1	48.12993894	42.22456379	1.139856392	0.188852	DIS3L2	730.8265644	705.3525534	0.965143562	-0.051185
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	PLEKHF1	24.06496947	21.1122819	1.139856392	0.188852	ZNF561	585.5417655	565.1118692	0.965109412	-0.051236
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	KIAA0753	1025.665595	900.0499125	1.139565241	0.188484	SETD6	165.0963624	159.3266944	0.965052725	-0.05132
RBFADN	2.201284833	1.111172731	0.504783713	-0.986263	FBXO33	517.8117568	454.4696472	1.139375886	0.188244	TMEM43	927.8415569	895.3828295	0.96501695	-0.051374
LINC02188	2.201284833	1.111172731	0.504783713	-0.986263	KLHL24	1869.59918	1641.202124	1.139164489	0.187976	ITPRID2	1925.023586	1857.151782	0.964742352	-0.051784
LINC02128	2.201284833	1.111172731	0.504783713	-0.986263	PRKCI	1522.731689	1336.740796	1.13913759	0.187942	HDHD3	102.3597447	98.74935747	0.964728446	-0.051805
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	EIF3F	492.0871343	432.2461925	1.138441802	0.187061	BIN3	102.3597447	98.74935747	0.964728446	-0.051805
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	ATF1	156.8372148	137.7854187	1.138271497	0.186845	PTRH2	252.0471133	243.1391743	0.964657643	-0.051911
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	COL12A1	2138.462976	1878.993089	1.138089857	0.186614	VPS8	1681.781612	1622.310873	0.964638251	-0.05194
GOLGA6L7	2.201284833	1.111172731	0.504783713	-0.986263	LRRC4	53.10889814	46.66925472	1.137984706	0.186481	GNPDA2	453.4646755	437.3185831	0.964393936	-0.052306
AKAP1-DT	2.201284833	1.111172731	0.504783713	-0.986263	ARIH2	615.7312878	541.1411202	1.137838661	0.186296	DNAJB6	512.899366	494.5766139	0.964276126	-0.052482
AKR1C8	2.201284833	1.111172731	0.504783713	-0.986263	DCUN1D3	188.3706231	165.564737	1.137746035	0.186179	TMOD2	114.4668113	110.3669289	0.964182785	-0.052621
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	NPL	135.2617249	118.8954823	1.137652351	0.18606	CASTOR2	201.4175622	194.1794088	0.964063941	-0.052799
ALOX12P1	2.201284833	1.111172731	0.504783713	-0.986263	OGFOD1	379.2307257	333.3518194	1.137629086	0.18603	RPL41	1180.989313	1138.522004	0.964040903	-0.052834
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	GOLPH3	2239.701814	1968.99808	1.137482985	0.185845	TMEM94	829.8843819	799.9527782	0.963932803	-0.052996
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	NTM	55.59837774	48.89160018	1.137176479	0.185456	FAM111A	2376.286977	2290.321232	0.9638235	-0.053159
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	HSP90AB3P	58.08785734	51.11394565	1.136438532	0.18452	ACOT13	166.1970049	160.1565209	0.963654676	-0.053412
CEP192-DT	2.201284833	1.111172731	0.504783713	-0.986263	FOXL2NB	29.04392867	25.55697282	1.136438532	0.18452	LRRC34	19.81156349	19.08601027	0.963377286	-0.053827
LINC01532	2.201284833	1.111172731	0.504783713	-0.986263	MPG	377.5710727	332.2406467	1.136438532	0.18452	CCDC148	138.6809445	133.6020719	0.963377286	-0.053827
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	GCLM	351.0166236	308.9060193	1.136321734	0.184371	AGO1	982.8736778	946.8320746	0.963330381	-0.053897
C17orf113	2.201284833	1.111172731	0.504783713	-0.986263	GTPBP2	852.2318498	750.0415937	1.136246119	0.184275	RHOA	361.0107125	347.6973175	0.963121884	-0.05421
LINC01255	2.201284833	1.111172731	0.504783713	-0.986263	WSB2	1726.869016	1520.084297	1.136035034	0.184007	WNK1	12702.51413	12230.81328	0.962865552	-0.054594
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	POLR3D	179.2425312	157.7865279	1.135981212	0.183939	BABAM2	540.4154264	520.3012364	0.962780134	-0.054722
RPL7L1P5	2.201284833	1.111172731	0.504783713	-0.986263	UBA52	1180.01333	1038.946504	1.13577872	0.183682	TALDO1	747.3362007	719.4596044	0.962698721	-0.054844
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	LRRC40	307.8656439	271.1261465	1.135507025	0.183337	CASKIN1	83.64882364	80.49317374	0.962275024	-0.055479
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	CDK16	1202.418647	1058.947613	1.135484543	0.183308	CEPT1	621.8629652	598.3049306	0.962117	-0.055716
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	SEMA6A	441.4677158	388.910456	1.135139745	0.18287	ZGPAT	31.91863007	30.70358173	0.961932942	-0.055992
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	CBR3	31.53340827	27.77931829	1.135139745	0.18287	ZNF253	467.7730269	449.7659811	0.961504737	-0.056634
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	DUSP6	422.3817055	372.242865	1.134693893	0.182303	RNF157	283.9657434	273.0129295	0.961429101	-0.056748
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	GPATCH2L	668.0103594	588.9215477	1.134294308	0.181795	VPS4A	44.02569665	42.3211532	0.961282987	-0.056967
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	NME5	68.04577574	60.0033275	1.134033371	0.181463	PDS5B	2106.629585	2024.776741	0.961145118	-0.057174
OR7A3P	2.201284833	1.111172731	0.504783713	-0.986263	HR	34.02288787	30.00166375	1.134033371	0.181463	FAM221A	100.1584599	96.25987787	0.961075859	-0.057278
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263	HERC1	5179.777221	4569.142272	1.133643234	0.180967	NBPF12	813.3747456	781.6965944	0.961053436	-0.057311

ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
OR7E108P	2.201284833	1.111172731	0.504783713	-0.986263
PRMT1P1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
LINC01607	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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FAM106A	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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RIMBP3B	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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PMS2P13	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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PRO1804	2.201284833	1.111172731	0.504783713	-0.986263
HEXD-IT1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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DDX11L17	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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LINC01202	2.201284833	1.111172731	0.504783713	-0.986263
CTBP1-AS	2.201284833	1.111172731	0.504783713	-0.986263
ARRDC3-AS	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
WASH5P	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
HSFX4	2.201284833	1.111172731	0.504783713	-0.986263
LINC02606	2.201284833	1.111172731	0.504783713	-0.986263
RELA-DT	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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LINC02822	2.201284833	1.111172731	0.504783713	-0.986263
CPLANE1-AS	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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SUGT1P3.1	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
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DPY19L2P4	2.201284833	1.111172731	0.504783713	-0.986263
ENSG000002	2.201284833	1.111172731	0.504783713	-0.986263
PTCHD4	44.02569665	22.22345463	0.504783713	-0.986263
FAM3C2P	39.62312699	20.00110917	0.504783713	-0.986263
VGLL1	22.01284833	11.11172731	0.504783713	-0.986263
MSC-AS1	22.01284833	11.11172731	0.504783713	-0.986263
SCN1A-AS1	22.01284833	11.11172731	0.504783713	-0.986263
PGLS-DT	22.01284833	11.11172731	0.504783713	-0.986263
ENSG000002	22.01284833	11.11172731	0.504783713	-0.986263
LIPC	19.81156349	10.00055458	0.504783713	-0.986263
RPL10AP6	19.81156349	10.00055458	0.504783713	-0.986263
GOLGA6L5P	19.81156349	10.00055458	0.504783713	-0.986263
RRAS2P1	19.81156349	10.00055458	0.504783713	-0.986263
CDH20	11.00642416	5.555863657	0.504783713	-0.986263
TMPRSS4	11.00642416	5.555863657	0.504783713	-0.986263
DIO3	11.00642416	5.555863657	0.504783713	-0.986263
DDX47	11.00642416	5.555863657	0.504783713	-0.986263
WASH8P	11.00642416	5.555863657	0.504783713	-0.986263
MTAPP2	11.00642416	5.555863657	0.504783713	-0.986263
FBXO38-DT	11.00642416	5.555863657	0.504783713	-0.986263
MMP14	1042.308368	525.584702	0.504250679	-0.987787
LRRK2	771.5503338	388.910456	0.504063622	-0.988322
PTGR1	1193.096379	601.1444477	0.503852378	-0.988927
GSTM3	507.3961539	255.5697282	0.503688738	-0.989396
BCL7B	467.7730269	235.5686191	0.503595987	-0.989661
SLK	1343.88439	676.7041934	0.503543458	-0.989812
DEGS1	4540.149967	2285.682309	0.503437623	-0.990115
RESF1	2991.546087	1505.639051	0.503297963	-0.990515
RBMXL1	248.1181335	218.9010281	1.13347176	0.180748
ZNRF2	75.51421454	66.67036389	1.132650403	0.179703
RIOX1	204.9671537	181.1211552	1.131657721	0.178438
CD101	41.49132667	36.66870014	1.131518884	0.178261
PEX2	832.316013	735.5963482	1.131484699	0.178217
AIP	461.3835526	407.8003924	1.131395558	0.178103
TOB1	2143.441936	1894.549507	1.131372882	0.178074
FHOD3	1030.644554	911.1616398	1.131132512	0.177768
KCNC3	305.3761643	270.0149737	1.13096011	0.177548
MAFG	139.4108576	123.3401732	1.130295621	0.1767
BAG3	658.052441	582.2545113	1.130180064	0.176553
BMP8A	141.9003372	125.5625187	1.130117002	0.176472
MAP2K3	242.3093477	214.4563372	1.129877302	0.176166
DCAF4	100.4090105	88.89381852	1.129538726	0.175734
ATP5MC1	406.6150013	360.019965	1.129423479	0.175587
NDUFB8	51.44924507	45.55808199	1.129311043	0.175443
RUFY3	716.1402983	634.4796297	1.128704949	0.174668
TLE4	851.4020232	754.4862846	1.128452618	0.174346
POMGNT2	363.4640216	322.2400921	1.127929238	0.173677
RIOK3	370.9324604	328.9071285	1.127772639	0.173476
RTL8B	140.2406841	124.4513459	1.126871575	0.172323
ATP8B1	861.3599416	764.4868392	1.126716508	0.172125
SCAPER	664.6910532	590.0327204	1.12653253	0.171889
SFXN5	73.85456147	65.55919115	1.12653253	0.171889
ARHGAP10	1125.244779	998.9442856	1.126433972	0.171763
DENND2D	384.2096849	341.1300286	1.126285149	0.171572
ABCB10	322.8025215	286.6825647	1.125992862	0.171198
PSMD4	741.8649208	658.9254297	1.125870831	0.171041
TOX4	1336.020719	1186.732477	1.125797721	0.170948
LRRFIP2	672.9893186	597.8109295	1.12575613	0.170894
FOXRED1	256.4163988	227.7904099	1.125668104	0.170782
ELP4	172.6039189	153.3418369	1.125615308	0.170714
ATP6V0A2	692.9051554	615.5896932	1.125595771	0.170689
NCOA7	522.790716	464.4702017	1.125563522	0.170647
MGST3	1141.84131	1014.500704	1.125520471	0.170592
ALG6	540.2170732	480.02662	1.125389824	0.170425
HECA	473.8309506	421.1344652	1.125129833	0.170091
PIK3R1	767.5895434	682.2600571	1.125068858	0.170013
ZCCHC14	686.2665431	610.0338296	1.124964731	0.16988
DPP8	701.2034207	623.3679023	1.124862891	0.169749
H3-3B	2212.317538	1966.775735	1.124844841	0.169726
TENT2	528.5995018	470.0260654	1.124617422	0.169434
IGSF9	333.5902664	296.6831193	1.124399215	0.169154
ZNF888	348.527144	310.0171921	1.124218762	0.168923
PHF11	121.1546739	107.7837549	1.124053193	0.16871
ZNF134	494.5766139	440.0244016	1.123975425	0.16861
ARID1B	4384.803402	3903.549806	1.123286142	0.167725
COG6	369.2728073	328.9071285	1.122726677	0.167007
MRPL50	570.0908284	507.8059383	1.122654907	0.166915
RPL7	2233.893028	1990.110362	1.122497059	0.166712
ANKMY2	220.7338579	196.6775735	1.122313307	0.166475
PSMB1	2149.250721	1915.661789	1.121936416	0.165991
PIKFYVE	2814.771601	2509.028028	1.121857377	0.165889
TRMT112	610.7523286	544.4746384	1.121727782	0.165723
ALKBH3	310.3551235	276.6820101	1.121703299	0.165691
CYFIP2	1571.691454	1401.188814	1.121684271	0.165667
AMER1	459.7238995	410.0227379	1.121215623	0.165064
ANXA13	24.894796	22.22345463	1.120203695	0.163761
SAXO2	24.894796	22.22345463	1.120203695	0.163761
PTCHD4	24.894796	22.22345463	1.120203695	0.163761
ENSG000002	12.447398	11.11172731	1.120203695	0.163761
SLC16A13	44.8106328	40.00221833	1.120203695	0.163761
RGPD4	22.4053164	20.00110917	1.120203695	0.163761
ENSG000002	37.342194	33.33518194	1.120203695	0.163761
CLCNKA	57.2580308	51.11394565	1.120203695	0.163761
IGF2BP3	19.9158368	17.7787637	1.120203695	0.163761
TYMSOS	19.9158368	17.7787637	1.120203695	0.163761
HSPB6	9.9579184	8.889381852	1.120203695	0.163761
XG	9.9579184	8.889381852	1.120203695	0.163761
KY	9.9579184	8.889381852	1.120203695	0.163761
ADGRG3	9.9579184	8.889381852	1.120203695	0.163761
ANKRD20A	9.9579184	8.889381852	1.120203695	0.163761
ENSG000002	9.9579184	8.889381852	1.120203695	0.163761
GFRA4	4.9789592	4.444690926	1.120203695	0.163761
FAM83C	4.9789592	4.444690926	1.120203695	0.163761
TPTE2	4.9789592	4.444690926	1.120203695	0.163761
TPH2	4.9789592	4.444690926	1.120203695	0.163761
PROK1	4.9789592	4.444690926	1.120203695	0.163761
FCRL1	4.9789592	4.444690926	1.120203695	0.163761
FAM43B	4.9789592	4.444690926	1.120203695	0.163761
SPDYE4	4.9789592	4.444690926	1.120203695	0.163761
PGGT1BP2	4.9789592	4.444690926	1.120203695	0.163761
MYL12BP2	4.9789592	4.444690926	1.120203695	0.163761
ENSG000002	4.9789592	4.444690926	1.120203695	0.163761
LINC00882	4.9789592	4.444690926	1.120203695	0.163761
MYL6B-AS1	4.9789592	4.444690926	1.120203695	0.163761
ENSG000002	4.9789592	4.444690926	1.120203695	0.163761
ENSG000002	4.9789592	4.444690926	1.120203695	0.163761
PTENP1-AS	4.9789592	4.444690926	1.120203695	0.163761
ENSG000002	4.9789592	4.444690926	1.120203695	0.163761
PON1	2.4894796	2.222345463	1.120203695	0.163761
NMRK2	2.4894796	2.222345463	1.120203695	0.163761
NCR2	2.4894796	2.222345463	1.120203695	0.163761
LGALS2	2.4894796	2.222345463	1.120203695	0.163761
GSDMD	2.4894796	2.222345463	1.120203695	0.163761
CALML4	2.4894796	2.222345463	1.120203695	0.163761
EPHA1	2.4894796	2.222345463	1.120203695	0.163761
PSMA8	2.4894796	2.222345463	1.120203695	0.163761
GPR78	2.4894796	2.222345463	1.120203695	0.163761
HPD	2.4894796	2.222345463	1.120203695	0.163761
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TCIM	156.2912231	150.1986025	0.961017513	-0.057365
KCNMA1	2570.000042	2469.563763	0.960919737	-0.057512
FTL	2419.212031	2324.34412	0.960785615	-0.057714
MORF4L1P1	369.8158519	355.1657563	0.960385431	-0.058315
ST3GAL5	184.9079259	177.5828781	0.960385431	-0.058315
HMG20A	209.1220591	200.8180211	0.960290951	-0.058457
KIAA0232	1646.561055	1580.819546	0.960073446	-0.058783
ZC3H14	2481.948649	2382.431977	0.959903815	-0.059038
ZNF510	608.6552562	584.1978795	0.959817357	-0.059168
WDTC1	931.1434842	893.7231764	0.959812523	-0.059175
C11orf65	24.21413316	23.23514293	0.959569471	-0.059541
PRR22	24.21413316	23.23514293	0.959569471	-0.059541
APTR	24.21413316	23.23514293	0.959569471	-0.059541
WFIKKN1	12.10706658	11.61757147	0.959569471	-0.059541
SYT16	12.10706658	11.61757147	0.959569471	-0.059541
SSBL4P	12.10706658	11.61757147	0.959569471	-0.059541
NDUFB2-AS	12.10706658	11.61757147	0.959569471	-0.059541
SIGLEC5.1	12.10706658	11.61757147	0.959569471	-0.059541
ENSG000002	12.10706658	11.61757147	0.959569471	-0.059541
EIF1B-AS1	12.10706658	11.61757147	0.959569471	-0.059541
ENSG000002	12.10706658	11.61757147	0.959569471	-0.059541
ZNF629	423.7473303	406.6150013	0.959569471	-0.059541
GGCTP1	36.32119974	34.8527144	0.959569471	-0.059541
PHGDH	355.5075005	341.0587052	0.95935727	-0.05986
EPC2	1123.755907	1077.944667	0.959233816	-0.060046
PIAS2	881.6145755	845.5932375	0.959141626	-0.060184
MAN1B1	903.6274238	866.3389008	0.958734627	-0.060797
CD163	2018.578191	1935.155476	0.958672537	-0.06089
AP3B1	1406.621008	1348.468117	0.95865774	-0.060912
MTRF1	141.9828717	136.0915515	0.958506824	-0.061139
ZNF493	774.8522611	742.6947474	0.958498522	-0.061152
YKT6	490.8865177	470.5116444	0.95849372	-0.061159
GOLGA1	565.730202	541.8767263	0.957835951	-0.06215
ZNF143	301.5760221	288.7796336	0.957568283	-0.062553
MRPL4	346.7023611	331.9306133	0.957393576	-0.062816
GPATCH2L	697.8072919	668.0103594	0.957299196	-0.062958
TNIK	1567.314801	1500.326372	0.957259111	-0.063019
OFD1	812.2741032	777.5474618	0.957247632	-0.063036
FTO	759.4432672	726.9280432	0.957185447	-0.06313
POGLUT3	392.9293426	375.9114196	0.95668961	-0.063877
H1-0	3038.873711	2906.05252	0.956292625	-0.064476
ARID4A	1004.886526	960.9391256	0.956266305	-0.064516
BAIAP2L1	570.1327716	545.1960324	0.956261523	-0.064523
EEF1B2P3	45.12633907	43.15097974	0.956226023	-0.064576
ALDH9A1	1026.899374	981.684789	0.955969799	-0.064963
HIC2	123.2719506	117.8353677	0.955897649	-0.065072
ARL1	1383.507517	1321.913668	0.955479931	-0.065703
PLOD3	399.5331971	381.7202053	0.95541549	-0.0658
LCLAT1	832.0856667	794.973819	0.955399006	-0.065825
ETFA	902.5267814	862.1897682	0.955306575	-0.065964
ARL8A	614.1584683	586.6873591	0.955270324	-0.066019
PLEKHA3	602.0514017	575.0697876	0.95518387	-0.06615
DPY19L1	247.6445437	236.500562	0.955000092	-0.066427
PTPRT	1139.164901	1087.902585	0.955000092	-0.066427
RASA3	66.03854498	63.06681654	0.955000092	-0.066427
SLC35E4	16.50963624	15.76670413	0.955000092	-0.066427
TRAM2	313.6830886	299.5673785	0.955000092	-0.066427
RPS11P5	49.52890873	47.3001124	0.955000092	-0.066427
RAB1B	815.5760305	778.3772883	0.954389608	-0.06735
MBD1	368.7152095	351.8464501	0.954249896	-0.067561
TFPI	348.903646	332.7604399	0.953731621	-0.068345
HIP1	690.102795	658.052441	0.95355713	-0.068609
KDELR1	1101.743059	1050.560391	0.953543917	-0.068629
ZNF18	233.3361923	222.3935109	0.953103369	-0.069295
HS3ST1	195.9143501	186.71097	0.953023451	-0.069416
CEP95	889.3190724	847.2528906	0.952698437	-0.069908
WDR70	706.6124313	672.9893186	0.952416472	-0.070336
EVI5	1251.430427	1191.630902	0.952215062	-0.070641
PHACTR4	1628.950776	1550.945791	0.952113356	-0.070795
TRIP12	8969.13505	8538.915028	0.952033276	-0.070916
SPRY4	129.8758051	123.6441535	0.952018379	-0.070939
IWS1	1131.460404	1077.11484	0.951968656	-0.071014
ZSCAN20	155.1905807	147.7091229	0.951791805	-0.071282
IRAK1BP1	155.1905807	147.7091229	0.951791805	-0.071282
ANKFY1	1376.903663	1310.296096	0.951625108	-0.071535
CMTR1	760.5439097	723.6087371	0.951435845	-0.071822
SLC38A9	265.2548223	252.2672661	0.951037436	-0.072426
RPS19BP1	151.8886534	144.3898168	0.950629382	-0.073045
RPL5P34	25.31477557	24.06496947	0.950629382	-0.073045
RPL17P18	25.31477557	24.06496947	0.950629382	-0.073045
SPESP1	105.661672	100.4090105	0.950287921	-0.073563
UBN1	1057.717362	1004.919932	0.950083612	-0.073874
FUT10	139.7815869	132.7722453	0.949855044	-0.074221
SERAC1	309.280519	293.7585928	0.949812791	-0.074285
CCDC107	144.1841565	136.921378	0.949628456	-0.074565
NUFIP2	4279.297715	4062.830707	0.949415296	-0.074889
MSANTD4	297.1734524	282.1410213	0.949415296	-0.074889
MSH4	29.71734524	28.21410213	0.949415296	-0.074889
ZFYVE1	340.0985066	322.8025215	0.94914419	-0.075301
ZXDB	344.5010763	326.9516541	0.94905844	-0.075431
MFSD1	978.4711081	928.5758908	0.949006959	-0.075509
GRK2	1227.216294	1164.246626	0.948689022	-0.075993
GNG2	68.23982981	64.7264696	0.948514523	-0.076258
UCP3	34.11991491	32.3632348	0.948514523	-0.076258
SENP7	1318.569615	1250.548586	0.948413017	-0.076413
YDJC	106.7623144	101.2388371	0.948263792	-0.07664
ZNF566	372.0171367	352.6762767	0.948010836	-0.077025
LRRC37B	419.3447606	397.4869095	0.947876179	-0.077229
SNCA	77.04496914	73.02473494	0.94781964	-0.077316
RPL7P23	38.52248457	36.51236747	0.94781964	-0.077316
ERC1	1528.792316	1448.877127	0.947726589	-0.077457

ZMIZ1	8895.392009	4476.914935	0.503284727	-0.990553
SIMC1	717.6188554	361.1311377	0.503235297	-0.990695
EIF4EBP2	662.5867346	333.3518194	0.503106691	-0.991064
METTL14	583.3404806	293.3496011	0.502878869	-0.991717
ZNF469	532.7109295	267.7926283	0.50269783	-0.992237
TMEM131L	994.9807443	500.0277291	0.502550157	-0.992661
LOX	203.618847	102.2278913	0.502055153	-0.994082
ZFP62	2189.177766	1098.949831	0.501992049	-0.994264
KAT14	595.4475472	298.9054648	0.501984543	-0.994285
GXYLT1	190.411138	95.5608549	0.501865888	-0.994626
TRABD	345.6017187	173.3429461	0.50156853	-0.995481
NOL4L	651.5803104	326.684783	0.501373012	-0.996044
MTRF1	141.9828717	71.11505481	0.500870661	-0.99749
NDUFA5	414.9421909	207.7893008	0.500766867	-0.997789
SRP72	1650.963624	826.7125122	0.500745443	-0.997851
CHD7	3417.494703	1711.206006	0.500719432	-0.997926
TMEM39A	812.2741032	406.6892197	0.50067978	-0.99804
PRRC2C	14134.44991	7074.836781	0.50053853	-0.998447
S100A6	257.5503254	128.8960368	0.500469322	-0.998646
DNAJC21	901.4261389	451.136129	0.500469322	-0.998646
ZNF429	495.2890873	247.7915191	0.500296747	-0.999144
ECT2	348.903646	174.4541188	0.50000658	-0.999981
ICA1	1042.308368	521.140011	0.499986402	-1.000039
CLPX	1273.443276	636.7019751	0.499984559	-1.000045
KITLG	342.2997915	171.1206006	0.499914417	-1.000247
TOB1	3790.612482	1894.549507	0.499800366	-1.000576
GPR183	108.9635992	54.44746384	0.499684888	-1.00091
ALKBH2	102.3597447	51.11394565	0.499355931	-1.00186
LRRIQ1	498.5910146	248.9026918	0.499212149	-1.002275
TAB3	3661.837319	1827.879143	0.499169948	-1.002397
GAR1	193.7130653	96.67202764	0.499047535	-1.002751
FAM13A	1247.027858	622.2567296	0.498991844	-1.002912
NCF2	191.5117804	95.5608549	0.498981601	-1.002941
ENSG000002	95.75589022	47.78042745	0.498981601	-1.002941
RMDN2	182.7066411	91.11616398	0.498701982	-1.00375
DCK	267.4561072	133.3407278	0.498551815	-1.004185
TMEM209	425.9486151	212.2339917	0.49826196	-1.005024
RARS2	677.9957284	337.7965104	0.49822808	-1.005122
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LACTB	162.8950776	81.11560939	0.497962312	-1.005892
DPH5	243.241974	121.1178277	0.497931446	-1.005981
RAB34	160.6937928	80.00443666	0.497868868	-1.006162
SLC25A19	78.14561156	38.8910456	0.497674083	-1.006727
RUNX1	1931.627441	961.1644127	0.497593062	-1.006962
UBE2D4	230.034265	114.4507913	0.497538014	-1.007121
SPCS1	915.7344904	455.5808199	0.497503179	-1.007222
FGD5-AS1	151.8886534	75.55974574	0.497468007	-1.007324
WDR36	895.9229269	445.5802653	0.497342184	-1.007689
RPL31	286.1670282	142.2301096	0.49701781	-1.008631
ZNF567	494.1884449	245.5691736	0.496914034	-1.008932
HOXA9	136.4796596	67.78153662	0.49664204	-1.009722
NAA80	136.4796596	67.78153662	0.49664204	-1.009722
IRF8	134.2783748	66.67036389	0.49650857	-1.010109
TSEN15	134.2783748	66.67036389	0.49650857	-1.010109
AURKA	67.13918739	33.33518194	0.49650857	-1.010109
H2BC21	2061.503246	1023.390086	0.496429044	-1.010341
THG1L	129.8758051	64.44801842	0.496228057	-1.010925
INTS6	882.7152179	437.8020562	0.495972027	-1.011669
ZNF33B	943.2505508	467.8037199	0.495948526	-1.011738
CMTR2	62.73661773	31.11283648	0.495927859	-1.011798
PDZRN3	1517.785892	752.2639392	0.495632449	-1.012657
PSMB10	60.5353329	30.00166375	0.495605827	-1.012735
FKBP7	239.9400468	118.8954823	0.495521627	-1.01298
TRMT6	589.9443351	292.2384284	0.495366107	-1.013433
FLT1	641.6745287	317.7954012	0.495259492	-1.013743
HMGB1	1339.481821	663.3701207	0.49524384	-1.013789
FAM3C	388.526773	192.2328825	0.494773838	-1.015159
CHDH	220.1284833	108.8949277	0.494688039	-1.015409
SMURF1	1145.768755	566.698093	0.494600756	-1.015664
HNRNPH3	2231.002178	1103.394522	0.494573485	-1.015743
GAB2	752.8394127	372.242865	0.494451883	-1.016098
RPL7P1	101.2591023	50.00277291	0.493810154	-1.017972
NIFK	150.788011	74.44857301	0.493730055	-1.018206
PODXL	999.383314	493.3606928	0.493665129	-1.018395
MSANTD4	297.1734524	146.6748005	0.493566297	-1.018684
BMP6	342.2997915	168.8982552	0.493422022	-1.019106
PLEKHO1	337.8972218	166.6759097	0.493273987	-1.019539
GUCD1	380.822276	187.7881916	0.493112413	-1.020012
PPIA	4502.728125	2220.123117	0.493061774	-1.02016
GPR75	283.9657434	140.0077642	0.493044557	-1.02021
ANKRD13A	1124.856549	554.475193	0.492929692	-1.020546
SLF2	965.2633991	475.5819291	0.492696532	-1.021229
YPEL2	137.580302	67.78153662	0.492668904	-1.02131
MICAL2	1660.869406	817.8231303	0.492406644	-1.022078
TDG	223.4304105	110.0061004	0.492350617	-1.022242
DDX46	1456.149917	716.7064118	0.492192736	-1.022705
MRGPRF	128.7751627	63.33684569	0.491840541	-1.023737
IL15RA	171.7002169	84.44912759	0.491840541	-1.023737
SNRPE	85.85010847	42.22456379	0.491840541	-1.023737
RASGEF1A	42.92505424	21.1122819	0.491840541	-1.023737
VLDLR	296.07281	145.5636278	0.491648077	-1.024302
FNBP1	2235.404748	1098.949831	0.49161112	-1.024411
KRR1	1325.173469	651.1472206	0.491367535	-1.025126
MCCC2	1155.674537	567.8092658	0.491322814	-1.025257
SPRY1	246.5439013	121.1178277	0.491262721	-1.025433
CDPF1	40.7237694	20.00110917	0.49114091	-1.025791
ENSG000002	40.7237694	20.00110917	0.49114091	-1.025791
ARHGAP23	40.7237694	20.00110917	0.49114091	-1.025791
HNRNPA1	3014.659578	1480.082078	0.490961596	-1.026318
TMEM167A	160.6937928	78.89326393	0.490954022	-1.02634
SLC46A3	79.24625397	38.8910456	0.490761943	-1.026905
SMIM43	2.4894796	2.222345463	1.120203695	0.163761
KLK13	2.4894796	2.222345463	1.120203695	0.163761
KRT86	2.4894796	2.222345463	1.120203695	0.163761
ZNF223	2.4894796	2.222345463	1.120203695	0.163761
OR51M1	2.4894796	2.222345463	1.120203695	0.163761
CHRM5	2.4894796	2.222345463	1.120203695	0.163761
KRT76	2.4894796	2.222345463	1.120203695	0.163761
ATP6V0C	2.4894796	2.222345463	1.120203695	0.163761
OR5D18	2.4894796	2.222345463	1.120203695	0.163761
KRT3	2.4894796	2.222345463	1.120203695	0.163761
SNTN	2.4894796	2.222345463	1.120203695	0.163761
ZNF502	2.4894796	2.222345463	1.120203695	0.163761
HCAR1	2.4894796	2.222345463	1.120203695	0.163761
CYP2B6	2.4894796	2.222345463	1.120203695	0.163761
AFDN-DT	2.4894796	2.222345463	1.120203695	0.163761
SNORA80B	2.4894796	2.222345463	1.120203695	0.163761
TRAV12-1	2.4894796	2.222345463	1.120203695	0.163761
RPL12P38	2.4894796	2.222345463	1.120203695	0.163761
SLC25A14P1	2.4894796	2.222345463	1.120203695	0.163761
LINC01139	2.4894796	2.222345463	1.120203695	0.163761
ZNF503-AS1	2.4894796	2.222345463	1.120203695	0.163761
PMS2P7	2.4894796	2.222345463	1.120203695	0.163761
NFE4	2.4894796	2.222345463	1.120203695	0.163761
GCNT1P3	2.4894796	2.222345463	1.120203695	0.163761
CTAGE3P	2.4894796	2.222345463	1.120203695	0.163761
EEF1GP5	2.4894796	2.222345463	1.120203695	0.163761
SRSF6P2	2.4894796	2.222345463	1.120203695	0.163761
PPP1R11P1	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
RPL13P5	2.4894796	2.222345463	1.120203695	0.163761
NCAPGP1	2.4894796	2.222345463	1.120203695	0.163761
REELD1	2.4894796	2.222345463	1.120203695	0.163761
GPAT4-AS1	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
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TCP1P3	2.4894796	2.222345463	1.120203695	0.163761
DNAJC19P9	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
POU2F2-AS1	2.4894796	2.222345463	1.120203695	0.163761
ST3GAL1-DT	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
RHEX	2.4894796	2.222345463	1.120203695	0.163761
CBX3P2	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
LETM1P2	2.4894796	2.222345463	1.120203695	0.163761
TSIX	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
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NOL12	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
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ABALON	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
ENSG000002	2.4894796	2.222345463	1.120203695	0.163761
GLUD1P3.1	2.4894796	2.222345463	1.120203695	0.163761
SMG1P5.1	2.4894796	2.222345463	1.120203695	0.163761
EBLN2	42.3211532	37.77987287	1.120203695	0.163761
ATF7IP	2783.238193	2484.582227	1.120203695	0.163761
SPCS3	682.1174104	608.9226568	1.120203695	0.163761
ZNF485	34.8527144	31.11283648	1.120203695	0.163761
TMEM51-AS	17.4263572	15.55641824	1.120203695	0.163761
PHYHD1	17.4263572	15.55641824	1.120203695	0.163761
TAF7	975.8760032	871.1594214	1.120203695	0.163761
TRIM67	27.3842756	24.44580009	1.120203695	0.163761
PEX5	27.3842756	24.44580009	1.120203695	0.163761
MSNP1	27.3842756	24.44580009	1.120203695	0.163761
PLA2G4D	14.9368776	13.33407278	1.120203695	0.163761
PPP1R36	14.9368776	13.33407278	1.120203695	0.163761
THAP7-AS1	14.9368776	13.33407278	1.120203695	0.163761
MUSK	7.4684388	6.667036389	1.120203695	0.163761
ENPP3	7.4684388	6.667036389	1.120203695	0.163761
TBATA	7.4684388	6.667036389	1.120203695	0.163761
MT1H	7.4684388	6.667036389	1.120203695	0.163761
IGLV1-47	7.4684388	6.667036389	1.120203695	0.163761
OSTCP8	7.4684388	6.667036389	1.120203695	0.163761
EIF5AP3	7.4684388	6.667036389	1.120203695	0.163761
ENSG000002	7.4684388	6.667036389	1.120203695	0.163761
HIPK1	3155.00048	2817.934047	1.119614735	0.163002
FIG4	735.2263086	656.7030843	1.119571883	0.162947
INPP4B	658.052441	587.8103749	1.119497833	0.162852
SAR1A	1553.43527	1387.854742	1.119306815	0.162606
CLDN3	867.9985539	775.5985665	1.119133778	0.162383
RTF2	805.7615639	720.03993	1.119051223	0.162276
NFX1	1325.232974	1184.510132	1.118802565	0.161955
PLAGL2	297.0778989	265.5702828	1.118641347	0.161748
PCCB	1390.78927	1243.402286	1.118535236	0.161611
SF3A2	796.633472	712.2617209	1.118456108	0.161509
ZNF641	244.7988273	218.9010281	1.118308258	0.161318
SCAF11	2866.220846	2563.475491	1.118099571	0.161049
LMBR1	747.6737066	668.9259843	1.117722624	0.160562
ERI2	682.947237	611.1450023	1.11748805	0.160259
CTBP1	839.7901636	795.8036455	0.947622013	-0.077616
EP400	4409.17352	4177.346769	0.947421722	-0.077921
PPP1R21	643.8758135	609.922502	0.947267298	-0.078157
ANKRD12	3272.209904	3099.402102	0.947189268	-0.078275
SHB	133.1777324	126.1336331	0.947107529	-0.0784
RUFY3	756.14134	716.1402983	0.94709846	-0.078414
NKAP	270.7580344	256.4163988	0.947031542	-0.078516
NDUFAF1	137.580302	130.2827657	0.946957986	-0.078628
ERF	331.2933673	313.6744296	0.946817717	-0.078841
PDGFRL	51.73019357	48.95976547	0.94644466	-0.07941
MGA	3617.811622	3422.204624	0.945932232	-0.080191
NRSN2	181.6059987	171.7740924	0.945861335	-0.080299
RNPEPL1	329.0920825	311.18495	0.945586256	-0.080719
HARS2	199.2162773	188.3706231	0.945558393	-0.080762
SLC20A2	541.5160688	512.0029711	0.945499128	-0.080852
PSMD6	711.0150009	672.159492	0.945352055	-0.081076
SFXN5	78.14561156	73.85456147	0.945089046	-0.081478
CHMP6	78.14561156	73.85456147	0.945089046	-0.081478
DEPDC5	238.8394043	225.7128171	0.945040111	-0.081553
LIPT2-AS1	82.54818122	78.00369414	0.94494746	-0.081694
AIMP2	265.2548223	250.6076131	0.944780611	-0.081949
RAB3B	1053.314792	994.9620135	0.944600817	-0.082223
GATA6	100.1584599	94.6002248	0.944505586	-0.082369
IQCH	200.3169198	189.2004496	0.944505586	-0.082369
SPARC	3891.871584	3675.301716	0.944353285	-0.082601
NT5DC1	435.8543969	411.5939605	0.944338209	-0.082624
ABCA3	1160.077107	1095.371024	0.944222602	-0.082801
RNF103	1046.710938	988.3234012	0.944218089	-0.082808
AASDH	741.8329886	700.3735942	0.944112226	-0.08297
NCOA5	1078.629568	1018.197156	0.94397297	-0.083183
SNUPN	135.3790172	127.7932861	0.943966715	-0.083192
SKIC3	3151.139238	2974.098296	0.943816846	-0.083421
WDR6	2587.610321	2442.179488	0.943797243	-0.083451
LATS1	3134.629602	2958.331591	0.943757945	-0.083511
UBE2D3	876.1113634	826.5072272	0.943381472	-0.084087
NFIL3	671.3918739	633.157645	0.943052291	-0.08459
UBA1	2522.672418	2378.282845	0.942763249	-0.085033
ZNF875	1081.931495	1019.85681	0.942626048	-0.085243
DPH2	110.0642416	103.7283167	0.942434301	-0.085536
EEFSEC	26.41541799	24.894796	0.942434301	-0.085536
RPP14	13.207709	12.447398	0.942434301	-0.085536
MAFA	13.207709	12.447398	0.942434301	-0.085536
CCNY-AS1	13.207709	12.447398	0.942434301	-0.085536
ENSG000002	13.207709	12.447398	0.942434301	-0.085536
DLK2	30.81798766	29.04392867	0.942434301	-0.085536
CCDC18-AS1	79.24625397	74.684388	0.942434301	-0.085536
EIF2B1	585.5417655	551.8346447	0.942434301	-0.085536
CLN5	96.85653263	91.28091867	0.942434301	-0.085536
SLC25A45	70.44111464	66.38612267	0.942434301	-0.085536
ENSG000002	35.22055732	33.19306133	0.942434301	-0.085536
RFESD	17.61027866	16.59653067	0.942434301	-0.085536
XACT	17.61027866	16.59653067	0.942434301	-0.085536
ENSG000002	17.61027866	16.59653067	0.942434301	-0.085536
CDK11A	8.80513933	8.298265334	0.942434301	-0.085536
ATP12A	8.80513933	8.298265334	0.942434301	-0.085536
DCT	8.80513933	8.298265334	0.942434301	-0.085536
MYH7	8.80513933	8.298265334	0.942434301	-0.085536
MMP27	8.80513933	8.298265334	0.942434301	-0.085536
GPR149	8.80513933	8.298265334	0.942434301	-0.085536
SCRT2	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
SLC44A3-AS	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
DYTN	8.80513933	8.298265334	0.942434301	-0.085536
CDC42P6	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
UGDH-AS1	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
LCDR	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
ENSG000002	8.80513933	8.298265334	0.942434301	-0.085536
DNTT	4.402569665	4.149132667	0.942434301	-0.085536
FRG1	4.402569665	4.149132667	0.942434301	-0.085536
IFNG	4.402569665	4.149132667	0.942434301	-0.085536
HAND1	4.402569665	4.149132667	0.942434301	-0.085536
SLC30A3	4.402569665	4.149132667	0.942434301	-0.085536
TRIM51	4.402569665	4.149132667	0.942434301	-0.085536
XCL1	4.402569665	4.149132667	0.942434301	-0.085536
FAM217A	4.402569665	4.149132667	0.942434301	-0.085536
CYP17A1	4.402569665	4.149132667	0.942434301	-0.085536
MATN1	4.402569665	4.149132667	0.942434301	-0.085536
ALPG	4.402569665	4.149132667	0.942434301	-0.085536
SLC2A2	4.402569665	4.149132667	0.942434301	-0.085536
CXorf58	4.402569665	4.149132667	0.942434301	-0.085536
VXN	4.402569665	4.149132667	0.942434301	-0.085536
GARIN2	4.402569665	4.149132667	0.942434301	-0.085536
MARCHF10	4.402569665	4.149132667	0.942434301	-0.085536
TMEM150B	4.402569665	4.149132667	0.942434301	-0.085536
C12orf40	4.402569665	4.149132667	0.942434301	-0.085536
ODF3L2	4.402569665	4.149132667	0.942434301	-0.085536
GALR2	4.402569665	4.149132667	0.942434301	-0.085536
KRT26	4.402569665	4.149132667	0.942434301	-0.085536
CLEC4C	4.402569665	4.149132667	0.942434301	-0.085536
LRRC3C	4.402569665	4.149132667	0.942434301	-0.085536
MAPK6P1	4.402569665	4.149132667	0.942434301	-0.085536
LRRC37A14I	4.402569665	4.149132667	0.942434301	-0.085536

SEPTIN7	593.2462624	291.1272556	0.490735929	-1.026981
BMF	117.7687385	57.78098203	0.490630899	-1.02729
DENR	385.2248457	188.8993643	0.490361321	-1.028083
NRG4	38.52248457	18.88993643	0.490361321	-1.028083
MIR3936HG	38.52248457	18.88993643	0.490361321	-1.028083
PDK1	224.5310529	110.0061004	0.489937133	-1.029331
RAC1	893.721642	437.8020562	0.489863997	-1.029547
VPS37B	329.0920825	161.1200461	0.489589555	-1.030355
ADGRL4	217.9271984	106.6725822	0.489487237	-1.030657
PLA2G4F	108.9635992	53.33629111	0.489487237	-1.030657
KCNH1	36.32119974	17.7787637	0.489487237	-1.030657
VSTM2L	540.4154264	264.4591101	0.489362622	-1.031024
IPO7	2498.458285	1222.290005	0.489217696	-1.031452
IQGAP1	6315.486185	3086.837848	0.488772797	-1.032764
CDADC1	172.8008594	84.44912759	0.488707799	-1.032956
RABGGTB	586.6424079	286.6825647	0.48868367	-1.033027
SSC5D	1237.122076	604.4779659	0.488616263	-1.033226
GPR153	68.23982981	33.33518194	0.488500368	-1.033568
F2RL2	34.11991491	16.66759097	0.488500368	-1.033568
HK1	2681.164926	1308.961478	0.488206251	-1.034437
CNEP1R1	66.03854498	32.22400921	0.487957589	-1.035172
CRACR2A	163.99572	80.00443666	0.487844662	-1.035506
HIPK3	4608.389797	2247.902436	0.487784787	-1.035683
SLC2A13	325.7901552	158.8977006	0.487730209	-1.035845
EXOSC8	193.7130653	94.44968217	0.487575177	-1.036303
CMSS1	191.5117804	93.33850944	0.487377378	-1.036889
SLC25A46	574.5353413	280.0155283	0.487377378	-1.036889
LTBP4	5099.276315	2484.582227	0.487242125	-1.037289
HIF1A	3764.197064	1832.323834	0.486776809	-1.038668
MYOM1	369.8158519	180.0099825	0.486755723	-1.03873
ARAP2	862.9036544	420.0232925	0.486755723	-1.03873
RBM17	975.1691808	474.4707563	0.486552247	-1.039333
SATB2	548.1199233	266.6814555	0.486538519	-1.039374
PEA15	655.9828801	318.9065739	0.486150757	-1.040524
JPH4	29.71734524	14.44524551	0.48608802	-1.040711
RPS10	29.71734524	14.44524551	0.48608802	-1.040711
SEC14L1P1	29.71734524	14.44524551	0.48608802	-1.040711
PTPRQ	89.15203572	43.33573653	0.48608802	-1.040711
ITGB1BP2	89.15203572	43.33573653	0.48608802	-1.040711
FOXP1	324.6895128	157.7865279	0.48596127	-1.041087
SLC39A8	294.9721676	143.3412824	0.4859485	-1.041125
CCDC6	2151.755924	1044.502368	0.485418609	-1.042699
CCSAP	171.7002169	83.33795486	0.485368955	-1.042846
MVB12B	336.7965794	163.3423915	0.484988273	-1.043978
RNF217	307.0792341	148.897146	0.484881846	-1.044295
PDZD2	1801.751635	873.3817669	0.484740377	-1.044716
RAB9B	55.03212081	26.66814555	0.484592365	-1.045156
IGDCC4	27.51606041	13.33407278	0.484592365	-1.045156
MRPL30	27.51606041	13.33407278	0.484592365	-1.045156
IPMK	165.0963624	80.00443666	0.484592365	-1.045156
KLF10	1438.539638	696.7053026	0.484314289	-1.045985
SMC5	1844.67669	893.3828761	0.484303228	-1.046017
BAG5	1386.809445	671.1483298	0.483951369	-1.047066
PRSS12	133.1777324	64.44801842	0.483924882	-1.047145
HECTD2	555.8244202	268.903801	0.483792707	-1.047539
ANP32B	1054.415435	510.0282837	0.483707149	-1.047794
HMGXB4	420.445403	203.3446099	0.48364094	-1.047992
JDP2	179.4047139	86.67147305	0.483105885	-1.049589
CGN	1101.743059	532.2517384	0.483099697	-1.049607
ITGB1	10530.94664	5085.837592	0.48294211	-1.050078
METTL1	202.5182046	97.78320037	0.482836595	-1.050393
KCTD6	177.203429	85.56030032	0.482836595	-1.050393
PAPPA	177.203429	85.56030032	0.482836595	-1.050393
PTPN20	25.31477557	12.22290005	0.482836595	-1.050393
ENSG000002	25.31477557	12.22290005	0.482836595	-1.050393
SPATA7	480.9807359	232.2351009	0.482836595	-1.050393
TSC22D1	3760.895136	1815.656243	0.482772366	-1.050585
OTUD6B	299.3747372	144.4524551	0.482513843	-1.051358
ZNF385A	322.488228	155.5641824	0.482387166	-1.051737
SMAD3	1900.809453	916.7175034	0.482277433	-1.052065
UBASH3A	48.42826632	23.33462736	0.481838999	-1.053377
ANGPT2	71.54175706	34.44635467	0.481486003	-1.054434
PTPRA	4121.905849	1984.554498	0.481465267	-1.054496
TMEM263	595.4475472	286.6825647	0.481457294	-1.05452
KDM7A	1089.635992	524.4735292	0.481329116	-1.054904
CCDC9B	94.6552478	45.55808199	0.481305401	-1.054975
ZNF853	94.6552478	45.55808199	0.481305401	-1.054975
TIGD6	256.449683	123.3401732	0.480952722	-1.056033
WASL	1252.53107	602.2556204	0.480830883	-1.056399
CDH11	2475.344794	1190.065995	0.480767769	-1.056588
PRRX2	92.45396297	44.44690926	0.480746393	-1.056652
GASK1B-AS1	46.22698148	22.22345463	0.480746393	-1.056652
C3orf18	23.11349074	11.11172731	0.480746393	-1.056652
GZMH	23.11349074	11.11172731	0.480746393	-1.056652
TMC3-AS1	23.11349074	11.11172731	0.480746393	-1.056652
ATP8B2	1243.72593	597.8109295	0.480661306	-1.056907
USP1	707.7130737	340.0188558	0.480447329	-1.05755
PHF20L1	1480.36405	711.1505481	0.480388961	-1.057725
TUT7	7665.97443	3681.315259	0.480214915	-1.058248
PDZK1IP1	90.25267814	43.33573653	0.480160117	-1.058413
DDX10	379.7216336	182.232328	0.479910313	-1.059163
NAP1L2	687.9015102	330.0183012	0.479746441	-1.059656
ATXN7	1371.400451	657.814257	0.479666064	-1.059898
WDR73	44.02569665	21.1122819	0.479544527	-1.060263
NKD1	591.0449776	283.3490465	0.479403526	-1.060688
GNPNAT1	350.0042884	167.7870824	0.47938579	-1.060741
DLD	890.4197148	426.6903289	0.479201349	-1.061296
JAKMIP2	64.93790256	31.11283648	0.479116745	-1.061551
GOSR2	236.6381195	113.3396186	0.47895757	-1.06203
NCKAP1L	483.1820208	231.1239281	0.478337186	-1.0639
DISC1	41.82441182	20.00110917	0.478216149	-1.064265
MCM3AP	2930.947316	2623.478819	1.117198772	0.159886
CCDC174	277.9918887	248.9026918	1.116869756	0.159461
ACAD8	135.2617249	121.1178277	1.116777996	0.159342
ZNF2	130.2827657	116.6731368	1.116647493	0.159174
SHROOM4	125.3038065	112.2284459	1.116506654	0.158992
OGG1	599.1347571	536.6964293	1.116338258	0.158774
SELENOK	107.8774493	96.67202764	1.115911727	0.158223
DHX8	1428.131464	1280.070987	1.115665833	0.157905
AP4E1	293.7585928	263.3479374	1.115477098	0.157661
NEU3	366.7833277	328.9071285	1.115157733	0.157248
MAP7D1	623.1997266	558.9198839	1.115007257	0.157053
THRAP3	2746.725825	2463.469946	1.114982478	0.157021
COX6B1	794.973819	713.3728936	1.114387477	0.156251
ABHD3	309.5252969	277.7931829	1.114229276	0.156046
VIPAS39	450.5958076	404.4668742	1.11404873	0.155812
WDR33	1029.814728	924.4957126	1.113920502	0.155646
BPGM	143.5599903	128.8960368	1.113765743	0.155446
OSBPL1A	710.3315126	637.8131478	1.113698448	0.155359
JMJD1C	8719.817213	7837.101275	1.112632963	0.153978
LAPTM4B	1310.296096	1177.843095	1.112453859	0.153745
RTL6	295.4182459	265.5702828	1.112391954	0.153665
CHCHD2	553.4942978	497.8053837	1.111868847	0.152987
PRKAA1	773.3983291	695.5941299	1.111852869	0.152966
C4orf3	323.632348	291.1272556	1.111652522	0.152706
SKIC3	2974.098296	2675.703937	1.111519946	0.152534
FCHO1	53.10889814	47.78042745	1.111519946	0.152534
FXR2	809.9106966	728.9293118	1.111096348	0.151984
MAF1	1020.686636	918.9398489	1.110721923	0.151498
WRAP53	192.5197557	173.3429461	1.110629305	0.151377
DEXI	96.25987787	86.67147305	1.110629305	0.151377
SMG8	336.9095725	303.3501557	1.110629305	0.151377
APOC1	48.12993894	43.33573653	1.110629305	0.151377
SKP1	93.77039827	84.44912759	1.110377347	0.15105
RNF182	276.3322356	248.9026918	1.110201877	0.150822
ANXA5	5307.570507	4782.487436	1.10979288	0.15029
ENSG000002	43.15097974	38.8910456	1.109535089	0.149955
EEF1B2P3	43.15097974	38.8910456	1.109535089	0.149955
TAF8	469.6818179	423.3568107	1.109423082	0.14981
COPS6	424.0413586	382.2434196	1.109349008	0.149713
MRPS26	243.9690008	220.0122008	1.108888507	0.149114
IPPK	81.32300027	73.33740027	1.108888507	0.149114
ST6GALNAC	40.66150013	36.66870014	1.108888507	0.149114
SFSWAP	1052.220044	948.9415126	1.108835508	0.149045
SEC14L1	1696.165434	1530.084851	1.108543381	0.148665
TIMMDC1	826.5072272	745.5969028	1.108517517	0.148632
FRA10AC1	114.5160616	103.339064	1.108158494	0.148164
NQO1	152.6880821	137.7854187	1.108158494	0.148164
PPP4R3B	2015.64865	1818.989761	1.108114346	0.148107
MYOM3	73.85456147	66.67036389	1.107756988	0.147641
CTSZ	1653.014454	1492.304978	1.107692113	0.147557
COBL	766.7597168	692.2606117	1.107617137	0.147459
VAMP8	287.9498071	260.0144192	1.107437841	0.147226
ORAI2	71.36508187	64.44801842	1.107327791	0.147082
EIF1	2824.72952	2551.252591	1.1071932	0.146907
SETD5	4390.612188	3965.775479	1.107125759	0.146819
FBXL20	624.8593796	564.4757476	1.106972943	0.14662
TRAPPC11	971.7268706	877.8264578	1.106969221	0.146615
FAM110A	137.7512045	124.4513459	1.106867937	0.146483
LCP2	204.1373272	184.4546734	1.106707265	0.146274
ATG5	201.6478476	182.232328	1.106542675	0.146059
AKAP9	2754.194264	2489.026918	1.106534543	0.146048
SRCAP	229.8619497	207.7893008	1.106226109	0.145646
NDUFAF1	130.2827657	117.7843095	1.106113083	0.145499
MARVELD3	97.0897044	87.78264578	1.106023902	0.145383
FOXO1	97.0897044	87.78264578	1.106023902	0.145383
MBTD1	702.8630738	635.5908024	1.10584211	0.145145
PTGIS	61.40716347	55.55863657	1.105267646	0.144396
PCMTD2	30.70358173	27.77931829	1.105267646	0.144396
ORC3	519.4714099	470.0260654	1.105197027	0.144304
WDR4	181.7320108	164.4535643	1.105065808	0.144132
LASP1	877.9564723	794.488503	1.10505875	0.144123
TRIM11	228.2022967	206.678128	1.104143427	0.142928
RNF19B	625.6892062	566.698093	1.104096191	0.142866
COMMD10	166.7951332	151.1194915	1.103730112	0.142387
ALDH18A1	934.3846766	846.7136214	1.103542748	0.142143
NPAS3	131.1125923	118.8954823	1.10275504	0.141112
GID4	156.8372148	142.2301096	1.102700513	0.141041
ZNF396	51.44924507	46.66925472	1.102422684	0.140677
IQCG	586.6873591	532.2517384	1.1022742	0.140483
LAS1L	857.210809	777.820912	1.102067064	0.140212
GPX4	3406.437919	3091.282539	1.101949717	0.140058
TTC33	172.6039189	156.6753551	1.101666046	0.139687
BOP1	414.9132667	376.687556	1.10147856	0.139441
MMADHC	479.6397363	435.5797107	1.101152612	0.139014
ZSWIM9	167.6249597	152.2306642	1.1011248	0.138978
PPIE	572.580308	520.0288383	1.101054914	0.138886
TUBA4A	118.6651943	107.7837549	1.100956209	0.138757
ILDR2	116.1757147	105.5614095	1.100550999	0.138226
SARM1	278.8217152	253.3473828	1.100550999	0.138226
ZDHHC4	438.9782362	398.9110106	1.100441513	0.138082
ARHGEF7	867.9985539	788.9326393	1.100218841	0.137791
FOSB	356.8254093	324.4624376	1.099743354	0.137167
ZNF778	222.3935109	202.2334371	1.099687144	0.137093
TOR3A	354.3359297	322.2400921	1.099602248	0.136982
MDH1B	199.158368	181.1211552	1.09958645	0.136961
PRCC	680.4577574	618.9232114	1.099421939	0.136745
HSP90AB1	9606.901777	8739.373533	1.09926664	0.136541
THUMPD1	965.9180848	878.9376306	1.098960895	0.13614
TBX1	147.7091229	134.4519005	1.098601971	0.135669
RNF207	82.98265334	75.55974574	1.098238917	0.135192
ENSG000002	41.49132667	37.77987287	1.098238917	0.135192
RPS2P55	4.402569665	4.149132667	0.942434301	-0.085536
RNU4ATAC1	4.402569665	4.149132667	0.942434301	-0.085536
EBLN1	4.402569665	4.149132667	0.942434301	-0.085536
TNS1-AS1	4.402569665	4.149132667	0.942434301	-0.085536
CALCRL-AS	4.402569665	4.149132667	0.942434301	-0.085536
RPL21P3	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
OR2L6P	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
KPNA2P1	4.402569665	4.149132667	0.942434301	-0.085536
C2orf74	4.402569665	4.149132667	0.942434301	-0.085536
TEX35	4.402569665	4.149132667	0.942434301	-0.085536
KLRK1-AS1	4.402569665	4.149132667	0.942434301	-0.085536
ARPC1AP4	4.402569665	4.149132667	0.942434301	-0.085536
LINC00293	4.402569665	4.149132667	0.942434301	-0.085536
NOX5	4.402569665	4.149132667	0.942434301	-0.085536
TSPAN9-IT1	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
COILP1	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
LINC01979	4.402569665	4.149132667	0.942434301	-0.085536
NFE2L1-DT	4.402569665	4.149132667	0.942434301	-0.085536
AK4P1	4.402569665	4.149132667	0.942434301	-0.085536
THEG5	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
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KRTAP10-7	4.402569665	4.149132667	0.942434301	-0.085536
F8A3	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
BISPR	4.402569665	4.149132667	0.942434301	-0.085536
ZNF285DP	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ENSG000002	4.402569665	4.149132667	0.942434301	-0.085536
ACER2	57.23340565	53.93872467	0.942434301	-0.085536
ZNF790-AS1	44.02569665	41.49132667	0.942434301	-0.085536
DHPS	22.01284833	20.74566333	0.942434301	-0.085536
FBRSL1	746.2355583	702.8630738	0.941878293	-0.086387
PBRM1	3646.428325	3433.822195	0.941694691	-0.086669
RNF220	539.314784	507.8538384	0.941664967	-0.086714
ETFDH	747.3362007	703.6929003	0.941601517	-0.086811
TM2D1	633.9700318	596.6452775	0.941125365	-0.087541
AP1AR	270.7580344	254.7567457	0.940901888	-0.087884
RXYLT1	231.1349074	217.4145517	0.940639188	-0.088287
ERLEC1	1191.995737	1121.095647	0.940519846	-0.08847
TMEM30B	622.9636076	585.8575326	0.940436207	-0.088598
ERCC6	954.2569749	897.0424826	0.940042888	-0.089202
IQCK	169.4989321	159.3266944	0.93998642	-0.089288
SMG1	6635.773128	6233.656919	0.939401754	-0.090186
CEP290	1750.021442	1643.886363	0.939352126	-0.090262
URB1	1675.177758	1573.351107	0.939214421	-0.090474
C1orf174	255.3490406	239.8198681	0.939184528	-0.090519
CMTR2	62.73661773	58.91768387	0.939127514	-0.090607
FAM216A	58.33404806	54.7685512	0.938877946	-0.09099
CRTC2	736.3297765	691.2455023	0.938771627	-0.091154
ZFAND2A	112.2655265	105.3879697	0.938738481	-0.091205
ABI1	1931.627441	1813.170975	0.938675304	-0.091302
LRRC59	440.2569665	413.2536136	0.938664564	-0.091318
DUS1L	377.5203488	354.3359297	0.938587631	-0.091437
TMEM241	53.9314784	50.61941854	0.938587631	-0.091437
ENSG000002	53.9314784	50.61941854	0.938587631	-0.091437
MPST	107.8629568	101.2388371	0.938587631	-0.091437
GP2	157.3918655	147.7091229	0.938480032	-0.091602
PTCD2	103.4603871	97.0897044	0.938423943	-0.091688
DHX57	1187.593167	1114.457034	0.938416509	-0.0917
RPS6KA4	202.5182046	190.0302761	0.938336761	-0.091822
ZNF174	99.05781747	92.94057174	0.938245705	-0.091962
NHLRC3	342.2997915	321.1428684	0.938191832	-0.092045
SHQ1	288.3683131	270.5234499	0.938117808	-0.092159
MAML3	2596.41546	2435.540875	0.938039737	-0.092279
HACD3	924.5396297	867.1687274	0.937946519	-0.092422
ZC3H12C	356.6081429	334.4200929	0.937780305	-0.092678
RPGRIP1L	862.9036544	809.08087	0.937625963	-0.092916
SIRT3	122.1713082	114.5160616	0.937340062	-0.093356
RALB	199.2162773	186.71097	0.937227482	-0.093529
GRB10	517.3019357	484.6186955	0.936819799	-0.094157
SLC35F2	145.284799	136.0915515	0.936722578	-0.094306
LTV1	145.284799	136.0915515	0.936722578	-0.094306
NME5	72.64239948	68.04577574	0.936722578	-0.094306
KATNAL2	36.32119974	34.02288787	0.936722578	-0.094306
TMEM185B	286.1670282	268.0339703	0.936634706	-0.094442
TMEM185A	140.8822293	131.9424188	0.936544087	-0.094581
VPS37C	514.0000084	481.2993894	0.93638012	-0.094834
TRIM45	195.9143501	183.3916639	0.936080812	-0.095295
APPBP2	1266.839421	1185.822116	0.936047692	-0.095346
CDHR3	95.75589022	89.6212656	0.935934755	-0.09552
TRAFD1	639.4732439	598.3049306	0.935621523	-0.096003
MARCKS	562.4282747	526.1100222	0.935425984	-0.096305
MORN1	114.4668113	107.0476228	0.935184807	-0.096677
SLC27A2	110.0642416	102.8984901	0.934894827	-0.097124

VEGFD	20.91220591	10.00055458	0.478216149	-1.064265
CTSW	20.91220591	10.00055458	0.478216149	-1.064265
MAP4	6794.265636	3249.069067	0.478207542	-1.064291
UBA3	748.4368431	357.7976195	0.478059869	-1.064737
PMPCB	1287.751627	615.5896932	0.478034491	-1.064813
ZNF33A	2394.997898	1144.507913	0.477874287	-1.065297
PABPC4	2688.869423	1284.515678	0.4777159	-1.065775
NEK10	162.8950776	77.7820912	0.477498107	-1.066433
TMSB4X	567.9314868	271.1261465	0.477392349	-1.066753
SGO1	60.5353329	28.89049102	0.477250056	-1.067183
HELZ	5541.734566	2644.591101	0.4772136	-1.067293
CNTN3	1097.340489	523.3623565	0.476937069	-1.068129
HELLS	198.1156349	94.44968217	0.476740174	-1.068725
KRT18	1580.52251	753.3751119	0.476662058	-1.068961
ZNF600	552.522493	263.3479374	0.476628446	-1.069063
ZNF512	195.9143501	93.33850944	0.476425078	-1.069679
ARID3A	97.95717505	46.66925472	0.476425078	-1.069679
SHF	97.95717505	46.66925472	0.476425078	-1.069679
RIOK1	450.1627483	214.4563372	0.476397343	-1.069763
TOB2	1197.498949	570.0316112	0.476018465	-1.070911
LARP4	1272.342633	605.5891386	0.475963882	-1.071076
RN7SL1	3219.379068	1532.307197	0.475963583	-1.071077
PTPRD	231.1349074	110.0061004	0.47593893	-1.071152
DAG1	2870.475422	1364.520114	0.475363803	-1.072896
TMX3	282.865101	134.4519005	0.475321629	-1.073024
WDR49	56.13276323	26.66814555	0.475090554	-1.073726
PSTPIP1	74.84368431	35.55752741	0.475090554	-1.073726
ZNF367	18.71092108	8.889381852	0.475090554	-1.073726
KY	18.71092108	8.889381852	0.475090554	-1.073726
OSER1-DT	18.71092108	8.889381852	0.475090554	-1.073726
SUMO2P21	18.71092108	8.889381852	0.475090554	-1.073726
ANKRD20A8	18.71092108	8.889381852	0.475090554	-1.073726
PPIAP11	18.71092108	8.889381852	0.475090554	-1.073726
ENSG000002	18.71092108	8.889381852	0.475090554	-1.073726
DHX35	542.6167112	257.7920737	0.475090554	-1.073726
MORN2	315.8843735	150.0083187	0.474883633	-1.074354
MYOF	4222.064309	2004.555608	0.474780927	-1.074666
ATAD5	184.9079259	87.78264578	0.474737064	-1.074799
CBL	679.0963709	322.2400921	0.474513053	-1.07548
GOPC	421.5460454	200.0110917	0.474470331	-1.07561
HNRNPAB	932.2441266	442.2467471	0.474389416	-1.075856
LACTB2	274.0599617	130.0072096	0.474375056	-1.0759
TXLNG	217.9271984	103.339064	0.474190761	-1.076461
KANSL1L-AS	53.9314784	25.55697282	0.473878588	-1.077411
TDRKH	574.5353413	272.2373192	0.473839118	-1.077531
ZNF770	1453.948632	688.9270935	0.473831797	-1.077553
MINDY3	1200.800876	568.9204385	0.473784163	-1.077698
SHANK2	4334.329835	2053.447208	0.473763485	-1.077761
ZNF41	1189.794452	563.3645748	0.473497396	-1.078572
MRPS11	281.7644586	133.3407278	0.473234731	-1.079372
CDKL2	35.22055732	16.66759097	0.473234731	-1.079372
ZNF615	1052.21415	497.8053837	0.473102727	-1.079775
VEGFA	507.3961539	240.01331	0.473029423	-1.079998
H2AZ2	523.9057902	247.7915191	0.472969614	-1.080181
RNF180	469.9743118	222.2345463	0.472865305	-1.080499
BMS1	869.5075089	411.1339106	0.472835377	-1.08059
CFAP92	86.95075089	41.11339106	0.472835377	-1.08059
DZIP1L	86.95075089	41.11339106	0.472835377	-1.08059
HAVCR2	103.4603871	48.89160018	0.472563476	-1.08142
UTP14A	326.8907976	154.4530097	0.472491152	-1.081641
SCAPER	1249.229142	590.0327204	0.472317448	-1.082171
ANO4	136.4796596	64.44801842	0.472217022	-1.082478
GOSR1	748.4368431	353.3529286	0.472121238	-1.082771
MIPOL1	417.1434758	196.6775735	0.471486634	-1.084711
CAMK2B	132.07709	62.22567296	0.471131466	-1.085798
B3GNT5	132.07709	62.22567296	0.471131466	-1.085798
NIPA2	16.50963624	7.77820912	0.471131466	-1.085798
SLC25A26	16.50963624	7.77820912	0.471131466	-1.085798
OVOL1	16.50963624	7.77820912	0.471131466	-1.085798
AKR1C4	16.50963624	7.77820912	0.471131466	-1.085798
RPL35P1	16.50963624	7.77820912	0.471131466	-1.085798
CNRIP1	49.52890873	23.33462736	0.471131466	-1.085798
FXR1	1689.486109	795.5996757	0.470912233	-1.08647
U2SURP	2704.278417	1273.40395	0.470884929	-1.086554
ENSG000002	193.7130653	91.11616398	0.470366642	-1.088142
RPS28	451.2633907	212.2339917	0.470310679	-1.088314
LAMB2	3848.94653	1810.10038	0.470284626	-1.088394
DNAJB6	512.899366	241.1244827	0.470120454	-1.088898
PPIF	63.83726015	30.00166375	0.469971043	-1.089356
FCHO2	924.5396297	434.468538	0.4699296	-1.089483
LBR	759.4432672	356.6864468	0.469668324	-1.090286
CLMP	300.4573796	141.1189369	0.469652246	-1.090335
KYNU	94.6552478	44.44690926	0.469566245	-1.090599
SH3BP5-AS1	234.4368347	110.0061004	0.469235564	-1.091616
CCDC134	139.7815869	65.55919115	0.469011639	-1.092304
SREK1	1101.743059	516.6953201	0.468979873	-1.092402
ZNF566	372.0171367	174.4541188	0.468941083	-1.092521
WASH6P	30.81798766	14.44524551	0.468727734	-1.093178
USP3-AS1	30.81798766	14.44524551	0.468727734	-1.093178
ZBED5	1339.481821	627.8125933	0.468698107	-1.093269
LDB1	1022.496805	478.9154472	0.468378429	-1.094253
ZNF326	868.4068665	406.6892197	0.468316449	-1.094444
ZNF277	486.483948	227.7904099	0.468238286	-1.094685
SUCLG2	652.6809529	305.5725011	0.46818051	-1.094863
CNN2	591.0449776	276.6820101	0.468123443	-1.095039
TMEM47	394.029985	184.4546734	0.468123443	-1.095039
RARS1	1828.167053	855.6030032	0.46801139	-1.095384
CREB1	1035.704514	484.4713109	0.467769817	-1.096129
KMT5A	299.3747372	140.0077642	0.467667264	-1.096446
MAPK9	1211.8073	566.698093	0.467647037	-1.096508
PUS7	686.8008678	321.1289194	0.467572093	-1.096739
LAG3	20.74566333	18.88993643	1.098238917	0.135192
GFRA1	248.94796	226.6792372	1.098238917	0.135192
ZNF266	755.1421454	687.8159208	1.097884074	0.134726
PMPCA	651.4138287	593.3662386	1.097827592	0.134652
LDB2	101.2388371	92.22733671	1.097709645	0.134496
PDE7B	101.2388371	92.22733671	1.097709645	0.134496
DBT	680.4577574	620.0343841	1.097451649	0.134157
RBM23	875.4669927	797.8220212	1.097321169	0.133986
TTC27	633.9874715	577.8098203	1.097225158	0.13386
EEF1A1P5	592.4961448	540.0299475	1.097154237	0.133766
NOA1	610.7523286	556.6975385	1.097099028	0.133694
HDAC3	332.7604399	303.3501557	1.096951604	0.1335
SNORA74B	96.25987787	87.78264578	1.096570706	0.132999
IKZF2	643.1155634	586.6992022	1.096158919	0.132457
MAFB	278.8217152	254.4585555	1.095745099	0.131912
KARS1	1248.888933	1140.063222	1.095455856	0.131531
ANKHD1	18.25618373	16.66759097	1.09531028	0.13134
PPP1R14A	18.25618373	16.66759097	1.09531028	0.13134
PRKAG1	18.25618373	16.66759097	1.09531028	0.13134
RNF32-AS1	18.25618373	16.66759097	1.09531028	0.13134
LRRC39	54.7685512	50.00277291	1.09531028	0.13134
PIK3C3	709.501686	647.8137024	1.095224882	0.131227
ARHGAP12	1868.769353	1706.761315	1.09492132	0.130827
EIF2B4	574.2399611	524.4735292	1.094888358	0.130784
ST3GAL2	122.8143269	112.2284459	1.094324402	0.13004
TLR6	52.2790716	47.78042745	1.094152447	0.129814
CEP72	258.9058784	236.6797918	1.093907834	0.129491
RAB35	274.6725825	251.1250373	1.09376821	0.129307
SUN1	1872.088659	1712.317179	1.093307176	0.128699
NCSTN	2218.126324	2029.001408	1.093210835	0.128572
INTS6L	201.6478476	184.4546734	1.093210835	0.128572
CD248	201.6478476	184.4546734	1.093210835	0.128572
MAP3K7	683.7770635	625.5902478	1.093011066	0.128308
ZNF26	631.4979919	577.8098203	1.092916682	0.128183
UBA5	663.0314002	606.7003114	1.092848294	0.128093
ELMO2	710.3315126	650.0360479	1.092757109	0.127973
STS	165.1354801	151.1194915	1.092747723	0.12796
ARMH3	440.6378892	403.3557015	1.09243005	0.127541
ERAL1	440.6378892	403.3557015	1.09243005	0.127541
PDCD6IP	2206.508752	2020.112026	1.09227049	0.12733
NOVA1	209.9461129	192.2328825	1.092144643	0.127164
MLEC	1708.612832	1564.531206	1.092092523	0.127095
PLEKHA3	575.0697876	526.6958747	1.091844108	0.126767
BPTF	5353.210967	4903.605264	1.091688804	0.126562
RPS11P5	47.3001124	43.33573653	1.091480524	0.126286
TM4SF19-AS	15.76670413	14.44524551	1.091480524	0.126286
GHRLOS	15.76670413	14.44524551	1.091480524	0.126286
ENSG000002	15.76670413	14.44524551	1.091480524	0.126286
LINC02035	15.76670413	14.44524551	1.091480524	0.126286
MXI1	1072.965708	983.3878673	1.091091057	0.125772
SLMAP	631.4979919	578.9209931	1.090818954	0.125412
JAGN1	244.7988273	224.4568918	1.09062736	0.125158
CYLD	900.3617887	825.6013395	1.090552723	0.12506
CUL1	547.685512	502.2500746	1.090463774	0.124942
USP10	569.2610019	522.2511838	1.090013809	0.124346
SEC22A	179.2425312	164.4535643	1.08992792	0.124233
BECN1	875.4669927	803.3778848	1.089732502	0.123974
TTC30A	711.9911656	653.3695661	1.089721962	0.12396
TCF7L2	1347.63829	1236.73525	1.089674035	0.123897
FRMD4A	796.633472	731.1516573	1.089559825	0.123745
DCTN5	469.6818179	431.1350198	1.089407718	0.123544
EPC1	1261.336331	1157.841986	1.089385552	0.123515
RBM4B	612.4119816	562.2534021	1.089209917	0.123282
SUGP1	522.790716	480.02662	1.089086926	0.123119
PPEF1	29.04392867	26.66814555	1.089086926	0.123119
VAX2	29.04392867	26.66814555	1.089086926	0.123119
FASTKD2	776.7176352	713.3728936	1.088796115	0.122734
MKRN1	1106.988596	1016.723049	1.08878086	0.122714
IDH3B	658.052441	604.4779659	1.088629327	0.122513
RANBP2	11333.77079	10413.91084	1.088329924	0.122116
ZNF589	198.3285415	182.232328	1.088327981	0.122113
GDI1	2726.809989	2505.694509	1.088245186	0.122004
MAPKAPK2	1044.751606	960.05324	1.088222571	0.121974
ANKDD1A	42.3211532	38.8910456	1.088197876	0.121941
TM7SF3	1656.333761	1522.306642	1.08804213	0.121734
TXN2	209.1162864	192.2328825	1.087827866	0.12145
SMYD3	1075.455187	988.943731	1.087478644	0.120987
ULK2	983.344442	904.4946034	1.087175577	0.120585
PPIB	1813.170975	1667.87027	1.08711751	0.120508
RCOR3	1243.909974	1144.507913	1.086851352	0.120155
CASC3	1870.429006	1721.206561	1.086696419	0.119949
RAD54L2	591.6663183	544.4746384	1.086673789	0.119919
CARD16	66.38612267	61.11450023	1.086258129	0.119367
WWP1P1	26.55444907	24.44580009	1.086258129	0.119367
CACNG2	13.27724453	12.22290005	1.086258129	0.119367
GLMN	329.4411337	303.3501557	1.086009443	0.119037
CIZ1	2197.38066	2023.445544	1.08595987	0.118971
GTF2H3	207.4566333	191.1217098	1.085468697	0.118318
WDR11	2059.629456	1897.883025	1.085224657	0.117994
MGST2	453.0852872	417.800947	1.084452514	0.116967
DCAF10	538.5574202	496.694211	1.084283666	0.116742
ZNF318	2192.401701	2022.334371	1.084094565	0.116491
ZC2HC1A	565.9416958	522.2511838	1.083658043	0.11591
RBM7	109.5371024	101.1167186	1.083273903	0.115398
IRF2	291.2691132	268.903801	1.083172168	0.115263
TMEM62	277.9918887	256.680901	1.083025218	0.115067
RPL10P6	120.3248473	111.1172731	1.082863572	0.114851
FAM13A-AS	24.06496947	22.22345463	1.082863572	0.114851
TAF4	262.2251845	242.2356555	1.082521002	0.114395
RUVBL2	626.5190327	578.9209931	1.082218541	0.113992
CHDH	117.8353677	108.8949277	1.082101529	0.113836
DYNLRB1	27.51606041	25.72462253	0.934894827	-0.097124
SPRED2	408.3383364	381.7202053	0.934813539	-0.097249
PDCD11	633.9700318	592.4961448	0.934580682	-0.097609
PCID2	316.9850159	296.2480724	0.934580682	-0.097609
NOMO3	50.62955115	47.3001124	0.934239221	-0.098136
IDH3B	704.4111464	658.052441	0.934188001	-0.098215
CUL9	816.6766729	762.6105842	0.933797437	-0.098818
UEVLD	300.4753796	280.4813683	0.933458737	-0.099342
CTSF	504.0942267	470.5116444	0.933380347	-0.099463
EPG5	1373.601736	1282.081994	0.933372433	-0.099475
EPN2	545.9186385	509.5134915	0.933313969	-0.099566
ZNF559	472.1755966	440.6378892	0.933207672	-0.09973
ALG1	134.2783748	125.3038065	0.933164456	-0.099797
PITPNA	1023.597447	955.1303399	0.933111295	-0.099879
SHC1	394.029985	367.6131543	0.932957308	-0.100117
ENSG000002	282.865101	263.8848376	0.932899947	-0.100206
BRAT1	190.411138	177.5828781	0.932628627	-0.100625
RNF40	822.179885	766.7597168	0.932593622	-0.10068
ZNF318	2350.972201	2192.401701	0.932551095	-0.100745
NBR1	1628.950776	1518.582556	0.932245822	-0.101218
PPP2CB	912.4325631	850.5721967	0.932202807	-0.101284
PLEKHM2	657.0835225	612.4119816	0.93201543	-0.101574
ZNF471	326.8907976	304.5463377	0.931645491	-0.102147
APBB1	149.6873686	139.4108576	0.931346839	-0.10261
ZNHIT2	74.84368431	69.7054288	0.931346839	-0.10261
MLXIP	37.42184215	34.8527144	0.931346839	-0.10261
ZNF322P1	18.71092108	17.4263572	0.931346839	-0.10261
SUCLG2-DT	18.71092108	17.4263572	0.931346839	-0.10261
HMGN1P38	18.71092108	17.4263572	0.931346839	-0.10261
ENSG000002	18.71092108	17.4263572	0.931346839	-0.10261
DHX35	542.6167112	505.3643588	0.931346839	-0.10261
HMOX1	56.13276323	52.2790716	0.931346839	-0.10261
CDC42SE1	449.0621058	418.2325728	0.931346839	-0.10261
OGT	6177.905883	5753.187356	0.931252024	-0.102756
TUBB2A	290.5695979	270.5234499	0.931010855	-0.10313
POLG	398.4325547	370.9324604	0.930979299	-0.103179
CSNK1D	1636.655273	1523.561515	0.930899463	-0.103303
SYPL1	806.7708911	750.9930127	0.930862802	-0.10336
IREB2	1127.057834	1048.900738	0.930653873	-0.103683
ZZZ3	3091.704547	2877.008591	0.930557415	-0.103833
NEK4	846.3940181	787.5053802	0.930424085	-0.10404
XRRA1	287.2676707	267.2041437	0.930157379	-0.104453
STUB1	522.8051477	486.2783486	0.930133054	-0.104491
CLASP1	1710.398315	1590.777464	0.930062577	-0.1046
RPS12	216.826556	201.6478476	0.929996082	-0.104703
DEPP1	66.03854498	61.40716347	0.929868511	-0.104901
ERI3	344.5010763	320.3130419	0.929788218	-0.105026
CBFA2T3	113.3661689	105.3879697	0.929624515	-0.10528
CDC42BPB	3769.700276	3504.35745	0.929611692	-0.1053
ZNF302	595.4475472	553.4942978	0.929543333	-0.105406
RHBDD1	449.0621058	417.4027463	0.929498929	-0.105475
TMEM33	827.6830971	769.2491964	0.929400636	-0.105627
PXDN	1724.706666	1602.395036	0.929082648	-0.106121
FANK1	170.5995745	158.4968679	0.929057815	-0.10616
C12orf43	61.63597531	57.2580308	0.928970954	-0.106295
FAM8A1	213.5246288	198.3285415	0.928832157	-0.10651
OXNAD1	227.8329802	211.605766	0.928775833	-0.106598
BCAT2	508.4967963	472.1712975	0.928562974	-0.106928
BICRA	532.7109295	494.5766139	0.928414618	-0.107159
COPS6	456.7666028	424.0413586	0.92835456	-0.107252
B4GALT1	943.2505508	875.4669927	0.928138332	-0.107588
GAN	257.5503254	238.9900416	0.927935312	-0.107904
C10orf67	14.30835141	13.27722453	0.927935312	-0.107904
ENSG000002	14.30835141	13.27722453	0.927935312	-0.107904
FAM111A-D	14.30835141	13.27722453	0.927935312	-0.107904
STX16-NPEP	14.30835141	13.27722453	0.927935312	-0.107904
ENSG000002	14.30835141	13.27722453	0.927935312	-0.107904
ENSG000002	14.30835141	13.27722453	0.927935312	-0.107904
WBP2	1034.603871	959.2794726	0.927194938	-0.109055
ARL2	81.44753881	75.51421454	0.927151583	-0.109123
FOXO3B	81.44753881	75.51421454	0.927151583	-0.109123
CHST15	311.4818038	288.7796336	0.927115581	-0.109179
ZNF419	230.034265	213.2654191	0.927102834	-0.109199
C7orf50	134.2783748	124.47398	0.926984559	-0.109383
NIPBL	9485.336344	8792.012121	0.926905679	-0.109506
ORAI2	77.04496914	71.36508187	0.926278285	-0.110482
SESN3	1316.36833	1219.015178	0.92604414	-0.110847
TBC1D16	690.102795	638.9664307	0.925900366	-0.111071
DHX30	777.0535459	719.4596044	0.925881631	-0.1111
CYB5D1	86.95075089	80.49317374	0.925732934	-0.111332
SAMD15	183.8072835	170.1144393	0.925504344	-0.111688
TRAF3	391.8287002	362.6341951	0.925491662	-0.111708
ANKRD11P2	24.21413316	22.4053164	0.925299132	-0.112008
CHCHD5	169.4989321	156.8372148	0.925299132	-0.112008
MAPK1	1942.633865	1797.404271	0.925240882	-0.112099
PRDM11	261.9528951	242.3093477	0.925011146	-0.112457
SELENOK	116.6680961	107.8774493	0.924652522	-0.113017
ARMH3	476.5781663	440.6378892	0.924586816	-0.113119
STK31	34.11991491	31.53340827	0.924193638	-0.113733
PALD1	112.2655265	103.7283167	0.923955197	-0.114105
WDR25	190.411138	175.9232251	0.923912471	-0.114172
CDH13	78.14561156	72.1949084	0.92385109	-0.114268
SLC29A2	200.3169198	185.0513169	0.923792744	-0.114359
AKAP1	1830.368338	1689.526822	0.92305291	-0.115515
EBNA1BP2	598.7494745	552.6644712	0.923031242	-0.115549
MRPL55	191.5117804	176.7530516	0.922935661	-0.115698
OSGEP	63.83726015	58.91768387	0.922935661	-0.115698
TXNL4B	63.83726015	58.91768387	0.922935661	-0.115698
FBXL19	265.2548223	244.7988273	0.922881723	-0.115782
ANXA5	5751.957268	5307.570507	0.922741644	-0.116001
PPP3CB-AS1	73.74304189	68.04577574	0.922741644	-0.116001

RASSF8	596.5481896	278.9043556	0.467530303	-1.096868
TRIM33	3990.929401	1865.659016	0.467474823	-1.097039
LRIF1	1122.655265	524.4735292	0.467172378	-1.097973
CAST	2424.715243	1132.285013	0.46697649	-1.098578
NSMAF	790.2612549	368.9093468	0.466819478	-1.099063
HLA-B	2180.372627	1017.834222	0.466816639	-1.099072
SMAD5	1577.220583	735.5963482	0.466387743	-1.100398
PTBP2	1069.824429	498.9165564	0.466353677	-1.100504
YKT6	490.8865177	228.9015827	0.466302444	-1.100662
LMAN1	3015.760221	1405.633505	0.46609591	-1.101301
SUPT20H	1406.621008	655.5919115	0.466075729	-1.101364
NFE2L3	85.85010847	40.00221833	0.465954197	-1.10174
CCDC62	42.92505424	20.00110917	0.465954197	-1.10174
TEX15	42.92505424	20.00110917	0.465954197	-1.10174
MUSK	14.30835141	6.667036389	0.465954197	-1.10174
ABCF2	14.30835141	6.667036389	0.465954197	-1.10174
TNFRSF9	14.30835141	6.667036389	0.465954197	-1.10174
SGCG	14.30835141	6.667036389	0.465954197	-1.10174
HORMAD1	14.30835141	6.667036389	0.465954197	-1.10174
ZBTB8A	14.30835141	6.667036389	0.465954197	-1.10174
C10orf67	14.30835141	6.667036389	0.465954197	-1.10174
RPL5P4	14.30835141	6.667036389	0.465954197	-1.10174
FAM111A-D	14.30835141	6.667036389	0.465954197	-1.10174
ALPK1	414.9421909	193.3440553	0.465954197	-1.10174
SUV39H2	241.0406892	112.2284459	0.465599589	-1.102838
POLR2L	608.6552562	283.3490465	0.4655329	-1.103045
TCEAL1	169.4989321	78.89326393	0.465449917	-1.103302
WDR48	971.8672536	452.2473017	0.465338553	-1.103647
NIPBL	9485.336344	4413.578089	0.465305386	-1.10375
MTRF1L	126.5738779	58.89215477	0.465278901	-1.103832
SLC25A36	840.8908061	391.1328015	0.465141013	-1.10426
CEP112	805.6702487	374.4652105	0.464787189	-1.105358
WIPF1	1286.650985	597.8109295	0.464625556	-1.10586
HSD11B1	55.03212081	25.55697282	0.464401016	-1.106557
KCNH6	55.03212081	25.55697282	0.464401016	-1.106557
NAV1	1805.053563	837.8242395	0.46415478	-1.107322
MINDY2	845.2933757	392.2439742	0.464032945	-1.107701
EPDR1	40.7237694	18.88993643	0.463855304	-1.108253
SEZ6L	40.7237694	18.88993643	0.463855304	-1.108253
C17orf67	40.7237694	18.88993643	0.463855304	-1.108253
ZNF189	975.1691808	452.2473017	0.463762915	-1.108541
MRPL44	270.7580344	125.5625187	0.463744387	-1.108598
NME6	148.5867262	68.89270935	0.463653188	-1.108882
PDCD4	3645.327683	1690.093725	0.463632867	-1.108945
RPL28	2765.914392	1282.293332	0.463605575	-1.10903
H2BC5	1599.233431	741.1522119	0.46344217	-1.109539
MUC1	362.1113555	167.7870824	0.463357694	-1.109802
CTDSPL	681.2976557	315.5730557	0.463194102	-1.110311
SRP14	573.4346989	265.5702828	0.463122101	-1.110535
NEK3	239.9400468	111.1172731	0.463104324	-1.110591
PIK3CG	211.3233439	97.78320037	0.462718404	-1.111794
SLITRK5	514.0000084	237.7909645	0.462628328	-1.112074
NREP	302.6766645	140.0077642	0.462565439	-1.112271
NDEL1	917.9357752	424.4679834	0.462415776	-1.112737
ARID4B	3603.503271	1665.647924	0.462230169	-1.113317
LDOC1	91.35332055	42.22456379	0.462211593	-1.113375
PCDHGA12	156.2912231	72.22622754	0.462125935	-1.113642
MEGF9	606.4539714	280.0155283	0.461725937	-1.114891
WEE1	308.1798766	142.2301096	0.461516538	-1.115546
NUDT9	664.7880194	306.6836739	0.461325513	-1.116143
SLC19A2	496.3897298	228.9015827	0.461132793	-1.116746
TBC1D24	139.7815869	64.44801842	0.461062289	-1.116966
SHLD2	860.7023695	396.6886651	0.460889477	-1.117507
IFTAP	50.62955115	23.33462736	0.460889477	-1.117507
SRRM1	5497.708869	2533.473828	0.46082357	-1.117714
TRAF5	554.7237778	255.5697282	0.460715294	-1.118053
RARG	226.7323378	104.4502368	0.460676398	-1.118174
PGM5	578.937911	266.6814555	0.46063913	-1.118291
SUMO1	289.4689555	133.3407278	0.46063913	-1.118291
KDM5D	1754.424012	807.8225758	0.460448883	-1.118887
ZDHHC11	325.7901552	150.0083187	0.460444603	-1.118901
CTHRC1	137.580302	63.33684569	0.460362746	-1.119157
PLXNB2	9051.683232	4166.897743	0.460345069	-1.119212
LZTFL1	212.4239863	97.78320037	0.460320899	-1.119288
BMPR2	4798.800935	2207.900217	0.460094146	-1.119999
PURA	766.0471217	352.2417559	0.459817348	-1.120867
USP27X	111.164884	51.11394565	0.459802986	-1.120912
SYDE2	541.5160688	248.9026918	0.459640454	-1.121422
PI4K2B	270.7580344	124.4513459	0.459640454	-1.121422
NBPF15	331.2933673	152.2306642	0.459504111	-1.12185
NEMP1	183.8072835	84.44912759	0.459443859	-1.12204
CLGN	208.0214167	95.5608549	0.459379887	-1.12224
CCNT1	1072.025713	492.24952	0.459176971	-1.122878
MFAP1	934.4454114	428.9126743	0.459002387	-1.123426
EMSY	2229.901535	1023.390086	0.458939585	-1.123624
PA2G4	181.6059987	83.33795486	0.458894285	-1.123766
CAMK2N1	399.5331971	183.3435007	0.458894285	-1.123766
UBL3	302.6766645	138.8965914	0.458894285	-1.123766
AP1S2	193.7130653	88.89381852	0.458894285	-1.123766
AURKB	24.21413316	11.11172731	0.458894285	-1.123766
CDT1	12.10706658	5.555863657	0.458894285	-1.123766
KRT75	12.10706658	5.555863657	0.458894285	-1.123766
TRAV41	12.10706658	5.555863657	0.458894285	-1.123766
ERVFRD-1	12.10706658	5.555863657	0.458894285	-1.123766
KRT18P31	12.10706658	5.555863657	0.458894285	-1.123766
ENSG000002	12.10706658	5.555863657	0.458894285	-1.123766
EHF	2089.019306	957.8308945	0.45850744	-1.124983
FBXO5	274.0599617	125.5625187	0.458157105	-1.126086
FAR1	1023.597447	468.9148927	0.458104789	-1.12625
ATP6V0E2	424.8479727	194.455228	0.457705439	-1.127509
PITPNB	615.2591107	281.1267011	0.456924077	-1.129974
EMC8	128.6231127	118.8954823	1.081816653	0.113456
ADAM22	686.2665431	634.4796297	1.081621081	0.113195
RAB1B	778.3772883	720.03993	1.081019616	0.112393
TM9SF3	3295.241164	3049.057975	1.080740737	0.11202
CBX4	840.6142783	777.820912	1.080729851	0.112006
HERPUD2	384.2096849	355.5752741	1.080529815	0.111739
ZC2HC1C	56.42820427	52.22511838	1.08048016	0.111673
UBE2Q2	462.2133791	427.8015016	1.080438889	0.111617
USP34	6473.476787	5993.665713	1.080053025	0.111102
IFIT3	78.00369414	72.22622754	1.079991255	0.11102
DPY19L2	244.7988273	226.6792372	1.079934935	0.110944
FDPS	443.9571954	411.1339106	1.079835995	0.110812
PREP	497.89592	461.1366835	1.079714405	0.11065
PABIR1	285.4603275	264.4591101	1.079411964	0.110246
PRPSAP1	536.0679406	496.694211	1.079271569	0.110058
VBP1	468.8519914	434.468538	1.07913911	0.109881
CDPF1	21.57548987	20.00110917	1.07871467	0.109313
ENSG000002	21.57548987	20.00110917	1.07871467	0.109313
MFF-DT	21.57548987	20.00110917	1.07871467	0.109313
VWC2L	10.78774493	10.00055458	1.07871467	0.109313
TMPRSS9	10.78774493	10.00055458	1.07871467	0.109313
MRAP-AS1	10.78774493	10.00055458	1.07871467	0.109313
DDIT3	64.7264696	60.0033275	1.07871467	0.109313
PPIC	245.6286539	227.7904099	1.078309899	0.108772
DNAJC14	351.0166236	325.5736103	1.078148267	0.108556
UBN1	1004.919932	932.2739217	1.077923461	0.108255
TSEN54	262.2251845	243.3468282	1.077577984	0.107792
CELSR2	1054.709524	978.9431764	1.077396063	0.107549
ZC3HAV1	1090.392065	1012.278358	1.077166232	0.107241
BRPF3	1079.60432	1002.277804	1.077150782	0.10722
DIPK1B	165.1354801	153.3418369	1.076910799	0.106899
PRKCH	655.5629614	608.9226568	1.076594792	0.106475
FUT10	132.7722453	123.3401732	1.07647202	0.106311
SDF2L1	173.4337455	161.1200461	1.07642562	0.106249
PXN-AS1	40.66150013	37.77987287	1.076274139	0.106046
WIPF1	643.1155634	597.8109295	1.075784218	0.105389
TMEM258	298.737552	277.7931829	1.075395548	0.104867
SELENOS	179.2425312	166.6759097	1.075395548	0.104867
ZNF615	535.238114	497.8053837	1.075195511	0.104599
WDR26	2002.371425	1863.436671	1.074558345	0.103744
SNRNP200	9413.552195	8760.485815	1.074546822	0.103728
KCTD3	1874.578139	1744.541188	1.074539341	0.103718
NFATC2	419.0623993	390.0216287	1.074459385	0.103611
CASTOR3P	253.0970927	235.5686191	1.074409205	0.103544
CD99L2	223.2233375	207.7893008	1.074277341	0.103366
CADM1	2052.990844	1911.217098	1.074179823	0.103236
UBAC1	713.6508187	664.4812934	1.073996854	0.10299
CARD6	125.3038065	116.6731368	1.073973067	0.102958
C19orf47	288.7796336	268.903801	1.073914287	0.102879
COL8A1	220.7338579	205.5669553	1.07378084	0.1027
ITGBL1	335.2499195	312.2395375	1.073694645	0.102584
ADAMTS4	76.34404107	71.11505481	1.073528541	0.102361
PTAFR	38.17202053	35.55752741	1.073528541	0.102361
HCAR2	38.17202053	35.55752741	1.073528541	0.102361
TACO1	19.08601027	17.7787637	1.073528541	0.102361
EIF4A1P10	19.08601027	17.7787637	1.073528541	0.102361
CD93	267.2041437	248.9026918	1.073528541	0.102361
C14orf28	57.2580308	53.33629111	1.073528541	0.102361
PARGP1	57.2580308	53.33629111	1.073528541	0.102361
EVI5	1191.630902	1110.061559	1.07348182	0.102298
RRAGA	644.7752164	601.1444477	1.072579509	0.101085
MED26	112.026582	104.4502368	1.072535453	0.101025
GUK1	623.1997266	581.1433385	1.072368356	0.100801
MRAS	120.3248473	112.2284459	1.072142151	0.100496
MTERF4	508.683665	474.4707563	1.072107518	0.10045
SP100	470.5116444	438.9132289	1.071992397	0.100295
TLE5	1180.01333	1101.172177	1.071597481	0.099763
GPATCH8	3508.506583	3274.62604	1.071422062	0.099527
RPP38	153.5179087	143.3412824	1.070995781	0.098953
PSMD2	2922.649051	2729.040228	1.070943924	0.098883
SPATA5L1	126.1336331	117.7843095	1.070886552	0.098806
NSMAF	394.9974299	368.9093468	1.070716785	0.098577
OSBPL2	897.0424826	837.8242395	1.070680986	0.098529
ELAPOR2	170.1144393	158.8977006	1.070590944	0.098407
GRPEL1	214.0952456	200.0110917	1.070416865	0.098173
ZNF616	480.4695628	448.9137835	1.07029363	0.098007
DNASE2	483.788869	452.2473017	1.06974407	0.097266
NEMF	1918.558945	1794.543961	1.069106685	0.096406
MAP1LC3B	250.6076131	234.4574463	1.068883147	0.096104
SKIL	1118.606167	1046.724713	1.06867274	0.09582
ADNP2	843.1037579	788.9326393	1.068663807	0.095808
URI1	1943.453741	1818.989761	1.068424783	0.095485
ZNF606	838.1247987	784.4879484	1.068371796	0.095414
TRAPPC3	474.6607771	444.4690926	1.067927523	0.094814
GRWD1	237.3303885	222.2345463	1.067927523	0.094814
HDGFL2	524.4503691	491.1383473	1.067826147	0.094677
DPYSL3	532.7486344	498.9165564	1.067811095	0.094656
SOCS5	438.9782362	411.1339106	1.067725684	0.094541
MLH3	1507.794811	1412.300542	1.06761611	0.094393
SETD1A	1386.640137	1298.960923	1.067499501	0.094235
HSD17B10	450.5958076	422.2456379	1.067141415	0.093751
GFPT1	1919.388772	1798.988652	1.066926559	0.093461
CCNP	24.894796	23.33462736	1.066860662	0.093372
ARID3B	82.98265334	77.7820912	1.066860662	0.093372
FYB1	174.263572	163.3423915	1.066860662	0.093372
NLRP12	16.59653067	15.55641824	1.066860662	0.093372
PPP2R2B	16.59653067	15.55641824	1.066860662	0.093372
SLC1A6	8.298265334	7.7782091 2	1.066860662	0.093372
FAM83E	8.298265334	7.7782091 2	1.066860662	0.093372
NPFFR1	8.298265334	7.7782091 2	1.066860662	0.093372
OVOL1	8.298265334	7.7782091 2	1.066860662	0.093372
WARS1	1165.580319	1074.625361	0.921965945	-0.117215
FHIP2A	632.8693894	583.368053	0.921782698	-0.117501
IKZF2	697.8072919	643.1155634	0.921623449	-0.117751
TNKS2	1337.280536	1232.292402	0.921491317	-0.117958
BCS1L	227.8329802	209.9461129	0.921491317	-0.117958
RNF215	69.34047223	63.89664307	0.921491317	-0.117958
MBP	198.1156349	182.5618373	0.921491317	-0.117958
AMDHD2	99.05781747	91.28091867	0.921491317	-0.117958
UTP14A	326.8907976	301.2270316	0.921491317	-0.117958
PIP4P2	188.2098532	173.4337455	0.921491317	-0.117958
MRPL46	29.71734524	27.3842756	0.921491317	-0.117958
HUS1B	19.81156349	18.25618373	0.921491317	-0.117958
ANKRD39	19.81156349	18.25618373	0.921491317	-0.117958
RNF32-AS1	19.81156349	18.25618373	0.921491317	-0.117958
INAFM2	19.81156349	18.25618373	0.921491317	-0.117958
PTPMT1	9.905781747	9.128091867	0.921491317	-0.117958
FFAR2	9.905781747	9.128091867	0.921491317	-0.117958
GRAP	9.905781747	9.128091867	0.921491317	-0.117958
KRT27	9.905781747	9.128091867	0.921491317	-0.117958
PHETA2	9.905781747	9.128091867	0.921491317	-0.117958
ZNF567-DT	9.905781747	9.128091867	0.921491317	-0.117958
ENSG000002	9.905781747	9.128091867	0.921491317	-0.117958
NANOGP4	9.905781747	9.128091867	0.921491317	-0.117958
OR7E7P	9.905781747	9.128091867	0.921491317	-0.117958
TCP10L	9.905781747	9.128091867	0.921491317	-0.117958
ENSG000002	9.905781747	9.128091867	0.921491317	-0.117958
ENSG000002	9.905781747	9.128091867	0.921491317	-0.117958
JMJD1C-AS1	9.905781747	9.128091867	0.921491317	-0.117958
ENSG000002	9.905781747	9.128091867	0.921491317	-0.117958
INTS14	580.0385534	534.4082875	0.921332357	-0.118206
MLLT3	753.9400552	694.5648084	0.921246727	-0.118341
ABCA2	2956.32553	2723.490683	0.92124181	-0.118348
TM9SF3	3577.087853	3295.241164	0.921207781	-0.118401
BRD4	4942.985092	4553.258189	0.921155558	-0.118483
MAN2B2	506.2955115	466.3625118	0.921127091	-0.118528
SNX3	1535.396171	1414.024413	0.920950853	-0.118804
KPNA4	1958.042859	1803.213057	0.920926245	-0.118842
CYP20A1	482.0813783	443.9571954	0.920917537	-0.118856
CCDC22	114.4668113	105.3879697	0.920685818	-0.119219
IMP4	179.4047139	165.1354801	0.92046344	-0.119568
SUGP2	2312.449717	2128.505058	0.920454634	-0.119581
CHMP4B	1337.280536	1230.632749	0.920250251	-0.119902
ZNF678	409.4389789	376.7412461	0.920140157	-0.120074
PPA2	619.6616804	570.0908284	0.920003361	-0.120289
ANKRD54	55.03212081	50.61941854	0.919815878	-0.120583
DIPK2B	55.03212081	50.61941854	0.919815878	-0.120583
ARMC9	520.6038629	478.8099098	0.91972024	-0.120733
MYO5A	1241.524646	1141.84131	0.919708935	-0.120751
ECE1	2444.526807	2248.000079	0.919605411	-0.120913
SELENON	852.9978726	784.186074	0.91932946	-0.121346
MIGA1	889.3190724	817.3791354	0.91910672	-0.121696
RFT1	176.1027866	161.816174	0.918873444	-0.122062
DPH6	140.8822293	129.4529392	0.918873444	-0.122062
ANAPC4	453.4646755	416.5729197	0.918644698	-0.122421
TMTC1	347.8030036	319.4832153	0.918575205	-0.12253
COG8	146.3854414	134.4318984	0.918341996	-0.122897
TWF1P1	85.85010847	78.83352067	0.918269319	-0.123011
CMIP	666.9893043	612.4119816	0.918173616	-0.123161
KLHL20	298.2740948	273.842756	0.91809098	-0.123291
ADH1B	25.31477557	23.23514293	0.917849059	-0.123671
PGAP2	126.5738779	116.1757147	0.917849059	-0.123671
ZBTB16	825.4818122	757.631625	0.917805352	-0.12374
CAAP1	471.0749542	432.3396239	0.917772469	-0.123792
EIF3B	1196.398307	1097.860504	0.917637962	-0.124003
ZBTB3	141.9828717	130.2827657	0.917594948	-0.124071
SOAT1	1103.944344	1012.388371	0.917064684	-0.124905
MPZL1	921.2377024	844.763411	0.916987449	-0.125026
ENSG000002	40.7237694	37.342194	0.916963104	-0.125064
MNT	804.5696063	737.7157882	0.916907353	-0.125152
SLC4A1AP	600.9507593	551.0048182	0.916888463	-0.125182
ZNF117	1003.785884	920.2776255	0.916806702	-0.125311
MLST8	412.7409061	378.4008992	0.916800088	-0.125321
ENSG000001	56.13276323	51.44924507	0.916563556	-0.125693
NUCB1	1474.860838	1351.787423	0.916552524	-0.125711
C15orf40	127.6745203	117.0055412	0.916436114	-0.125894
TSPAN4	102.3597447	93.77039827	0.916086676	-0.126444
PTPN1	1208.505373	1106.988596	0.915998075	-0.126584
CATIP	30.81798766	28.21410213	0.915507607	-0.127356
ADGRE3	15.40899383	14.10705107	0.915507607	-0.127356
AMDHD1	15.40899383	14.10705107	0.915507607	-0.127356
HESX1	15.40899383	14.10705107	0.915507607	-0.127356
SPATA32	15.40899383	14.10705107	0.915507607	-0.127356
RAET1G	15.40899383	14.10705107	0.915507607	-0.127356
TMEM167B-I	15.40899383	14.10705107	0.915507607	-0.127356
FAM172A	523.9057902	479.6397363	0.915507607	-0.127356
JAK1	3219.379068	2946.71402	0.915305082	-0.127675
FZD1	282.865101	258.9058784	0.915298061	-0.127686
RAI2	468.8736693	429.0203178	0.915001941	-0.128153
TXNDC15	703.310504	643.1155634	0.914411998	-0.129084
ABHD14A	88.0513933	80.49317374	0.914161272	-0.129479
PREB	212.4239863	194.1794088	0.914112442	-0.129556
PRRC2C	14134.44991	12920.39912	0.914106966	-0.129565
SPIRE1	700.0085768	639.7962572	0.913983455	-0.12976
SMPD4BP	269.657392	246.4584804	0.913968939	-0.129783
STK40	332.3940097	303.7165112	0.913724382	-0.130169
FOXN3	945.4518356	863.8494212	0.913689507	-0.130224
SAFB2	1439.640281	1315.275055	0.913613681	-0.130344
NKAPD1	327.9914401	299.5673785	0.913339014	-0.130778
ZNF346	547.0192809	499.5555731	0.913232112	-0.130947
CIR1	693.4047223	633.157645	0.913114123	-0.131133
MAPRE3	161.7944352	147.7091229	0.91294316	-0.131403

IL10RA	243.241974	111.1172731	0.45681784	-1.130309
FAM153A	126.5738779	57.78098203	0.456500054	-1.131313
EEF1A1P5	1183.190598	540.0299475	0.45641839	-1.131571
BCL9L	2760.41118	1258.958705	0.456076513	-1.132652
IFIT3	158.4925079	72.22622754	0.455707519	-1.13382
CCDC113	90.25267814	41.11339106	0.455536522	-1.134361
RCN3	383.0235609	174.4541188	0.455465764	-1.134585
MIPEP	515.1006508	234.4574463	0.45516822	-1.135528
RWDD2A	268.5567496	122.2290005	0.455132856	-1.13564
LIMA1	2166.064275	985.6102128	0.45502353	-1.135987
ASXL3	156.2912231	71.11505481	0.455016305	-1.13601
SELENOS	366.5139246	166.6759097	0.454760102	-1.136822
HDX	430.3511848	195.5664007	0.454434443	-1.137856
PDSS1	110.0642416	50.00277291	0.454305342	-1.138266
GGCT	66.03854498	30.00166375	0.454305342	-1.138266
MELK	88.0513933	40.00221833	0.454305342	-1.138266
B3GLCT	88.0513933	40.00221833	0.454305342	-1.138266
TRAJ11	22.01284833	10.00055458	0.454305342	-1.138266
ENSG000002	22.01284833	10.00055458	0.454305342	-1.138266
RBM12	4171.434758	1893.438334	0.453905777	-1.139535
MED31	119.9700234	54.44746384	0.453842237	-1.139737
PIGP	227.8329802	103.339064	0.453573771	-1.140591
ODAD2	269.657392	122.2290005	0.453275171	-1.141541
RBM43	193.7130653	87.78264578	0.453158106	-1.141914
MEMO1P1	63.83726015	28.89049102	0.452564708	-1.143804
TSPOAP1-AS	31.91863007	14.44524551	0.452564708	-1.143804
SOX13	552.522493	250.0138646	0.45249536	-1.144025
DENND2A	201.4175622	91.11616398	0.452374475	-1.144411
PWWP3B	169.4989321	76.67091847	0.452338652	-1.144525
MAGI2	307.0792341	138.8965914	0.452315155	-1.1446
PDPN	137.580302	62.22567296	0.452286207	-1.144692
ATRX	10789.59761	4879.159464	0.452209586	-1.144937
HPGD	73.74304189	33.33518194	0.452045116	-1.145461
H3C7	73.74304189	33.33518194	0.452045116	-1.145461
TTC9C	231.1349074	104.4502368	0.45190161	-1.145919
PSMG1	272.9593192	123.3401732	0.45186284	-1.146043
CCDC30	199.2162773	90.00499125	0.451795368	-1.146259
YBX1	2750.505398	1242.291114	0.451659217	-1.146693
ANKRD12	3272.209904	1477.859733	0.451639649	-1.146756
CLK4	642.7751711	290.0160829	0.451193661	-1.148181
SLFN12	103.4603871	46.66925472	0.451083318	-1.148534
EIF2AK2	2310.248432	1041.168849	0.450673977	-1.149844
TYMS	71.54175706	32.22400921	0.45042239	-1.15065
CDH6	152.9892959	68.89270935	0.450310651	-1.151007
FASN	13840.57838	6225.900814	0.449829526	-1.15255
FAM110B	111.164884	50.00277291	0.449807269	-1.152621
NANS	894.8222845	402.2445288	0.449524487	-1.153528
QSER1	2210.089972	993.3884219	0.449478725	-1.153675
GLIS3	697.8072919	313.3507103	0.449050496	-1.15505
B4GALT1	943.2505508	423.3568107	0.448827526	-1.155767
KCNH2	267.4561072	120.006655	0.448696634	-1.156188
WASH4P	49.52890873	22.22345463	0.448696634	-1.156188
RRAGC	19.81156349	8.889381852	0.448696634	-1.156188
PI3	19.81156349	8.889381852	0.448696634	-1.156188
GPR173	19.81156349	8.889381852	0.448696634	-1.156188
HUS1B	19.81156349	8.889381852	0.448696634	-1.156188
LYRM9	19.81156349	8.889381852	0.448696634	-1.156188
C1orf185	9.905781747	4.444690926	0.448696634	-1.156188
ENSG000002	9.905781747	4.444690926	0.448696634	-1.156188
ENSG000002	9.905781747	4.444690926	0.448696634	-1.156188
ANKRD65	9.905781747	4.444690926	0.448696634	-1.156188
RPL5P23	9.905781747	4.444690926	0.448696634	-1.156188
LINC00882	9.905781747	4.444690926	0.448696634	-1.156188
BAALC-AS1	9.905781747	4.444690926	0.448696634	-1.156188
ARNT2-DT	9.905781747	4.444690926	0.448696634	-1.156188
RBM17P4	9.905781747	4.444690926	0.448696634	-1.156188
ENSG000002	9.905781747	4.444690926	0.448696634	-1.156188
UNC5B	374.2184215	167.7870824	0.44836671	-1.157249
PRRG4	106.7623144	47.78042745	0.447540199	-1.159911
NSRP1	620.7623228	277.7931829	0.447503292	-1.16003
VNN2	203.618847	91.11616398	0.44748394	-1.160092
GATAD2B	96.85653263	43.33573653	0.447421928	-1.160292
ROCK1	2466.539655	1103.394522	0.447345138	-1.16054
CEP128	924.5396297	413.3562561	0.447094146	-1.161349
TOP1	2087.918664	933.3850944	0.447040927	-1.161521
STK26	221.2291257	98.8943731	0.447022393	-1.161581
CCDC107	144.1841565	64.44801842	0.446984051	-1.161705
ZBED4	1370.299808	612.256175	0.44680454	-1.162284
PAX9	191.5117804	85.56030032	0.446762597	-1.16242
C1R	124.372593	55.55863657	0.446711251	-1.162586
ARIH1	917.9357752	410.0227379	0.446679113	-1.162689
TRIM14	457.8672452	204.4557826	0.446539439	-1.16314
ZNF93	161.7944352	72.22622754	0.446407365	-1.163567
ZNF267	408.3383364	182.232328	0.446277784	-1.163986
SLC7A8	712.1156433	317.7954012	0.446269372	-1.164013
CEP63	94.6552478	42.22456379	0.446087933	-1.1646
SNRK-AS1	94.6552478	42.22456379	0.446087933	-1.1646
DYRK2	573.4346989	255.5697282	0.445682357	-1.165912
FGF13	299.3747372	133.3407278	0.445397394	-1.166835
SLC51A	74.84368431	33.33518194	0.445397394	-1.166835
WSCD2	37.42184215	16.66759097	0.445397394	-1.166835
GBP3	691.2034374	307.7948466	0.44530283	-1.167141
COPS2	653.7815953	291.1272556	0.445297417	-1.167159
RNF113A	139.7815869	62.22567296	0.44516359	-1.167592
HERPUD2	799.0663942	355.5752741	0.444988397	-1.16816
CCNF	129.8758051	57.78098203	0.44489412	-1.168466
SLFN12L	129.8758051	57.78098203	0.44489412	-1.168466
EEF1A1P6	64.93790256	28.89049102	0.44489412	-1.168466
CNOT3	342.2997915	152.2306642	0.444729059	-1.169001
CFAP68	147.4860838	65.55919115	0.444511031	-1.169709
FZD10	27.51606041	12.22290005	0.444209668	-1.170687
GFRAL	8.298265334	7.77820912	1.066860662	0.093372
NT5C3AP1	8.298265334	7.77820912	1.066860662	0.093372
ZNF705EP	8.298265334	7.77820912	1.066860662	0.093372
ENSG000002	8.298265334	7.77820912	1.066860662	0.093372
ENSG000002	99.579184	93.33850944	1.066860662	0.093372
TM2D3	215.7548987	202.2334371	1.066860662	0.093372
USP28	664.6910532	623.3679023	1.066290149	0.0926
GALNT18	130.2827657	122.2290005	1.065890789	0.09206
CAPN2	1513.603597	1420.078751	1.065858915	0.092016
NCALD	243.9690008	228.9015827	1.065824875	0.09197
LIN7B	97.0897044	91.11616398	1.065559613	0.091611
UBE2Z	1234.781882	1158.953159	1.065428635	0.091434
WASL	641.4559103	602.2556204	1.065089122	0.090974
ANAPC4	416.5729197	391.1328015	1.06504215	0.090911
AGPAT4	199.9881945	187.7881916	1.064966827	0.090808
LCMT2	244.7988273	230.0127554	1.064283704	0.089883
TBC1D7	292.0989397	274.4596647	1.064269098	0.089863
ATRN	2868.710326	2695.705046	1.064178119	0.08974
EI24	629.0085123	591.1438931	1.064053134	0.08957
OST4	715.3104718	672.2595025	1.064039213	0.089551
MPRIP	2873.689285	2701.26091	1.063832551	0.089271
CYC1	868.8283804	816.7119576	1.063812489	0.089244
LIPT2-AS1	78.00369414	73.33740027	1.063627751	0.088993
SEZ6L2	3137.574123	2950.163602	1.063525467	0.088855
PDCD7	186.71097	175.5652916	1.063484521	0.088799
SOX5	69.7054288	65.55919115	1.063244186	0.088473
SMU1P1	69.7054288	65.55919115	1.063244186	0.088473
CRNKL1	1291.210086	1214.511795	1.06315154	0.088347
ANXA4	610.7523286	574.4763022	1.063146254	0.08834
SP2	602.4540632	566.698093	1.063095272	0.088271
SMARCAD1	907.000401	853.3806577	1.062832152	0.087914
HVCN1	30.70358173	28.89049102	1.062757352	0.087812
RBM6	1365.064647	1284.515678	1.062707658	0.087745
MED12L	879.6161254	827.8236849	1.062564579	0.087551
VPS13C	5843.638448	5502.527366	1.06199171	0.086773
HM13	824.8475742	776.7097393	1.061976608	0.086752
BET1	75.51421454	71.11505481	1.061859753	0.086593
NSUN5	75.51421454	71.11505481	1.061859753	0.086593
TMEM43	895.3828295	843.3801032	1.061659892	0.086322
TMEM218	44.8106328	42.22456379	1.061245606	0.085759
RASL12	22.4053164	21.1122819	1.061245606	0.085759
GSTM1	22.4053164	21.1122819	1.061245606	0.085759
KCNE4	22.4053164	21.1122819	1.061245606	0.085759
ANKRD11P2	22.4053164	21.1122819	1.061245606	0.085759
HNRNPCP2	67.2159492	63.33684569	1.061245606	0.085759
N4BP2	1331.04176	1254.514014	1.061001906	0.085427
WDPCP	297.0778989	280.0155283	1.060933659	0.085334
TGDS	103.7283167	97.78320037	1.060798954	0.085151
MED14	3650.40692	3441.301949	1.060763331	0.085103
BCLAF3	954.3005134	900.0499125	1.060275103	0.084439
C1orf54	36.51236747	34.44635467	1.05997769	0.084034
RNF214	328.6113072	310.0171921	1.05997769	0.084034
TMEM74	160.1565209	151.1194915	1.059800555	0.083793
RNF130	1492.028107	1407.855851	1.059787553	0.083775
CAMLG	210.7759395	198.8999189	1.059708524	0.083668
GSR	1079.60432	1018.945395	1.059531085	0.083426
HACD1	50.61941854	47.78042745	1.059417448	0.083271
SPIN3	129.4529392	122.2290005	1.059101676	0.082841
DISP3	129.4529392	122.2290005	1.059101676	0.082841
HP1BP3	4149.962493	3919.106224	1.058905336	0.082574
ZNF182	478.8099098	452.2473017	1.058734697	0.082341
CCNC	326.9516541	308.9060193	1.05841788	0.081909
SEMA4D	992.4725339	937.8297853	1.058265103	0.081701
LRIG3	318.6533888	301.1278102	1.058199801	0.081612
FAHD2A	14.10705107	13.33407278	1.057970157	0.081299
RAET1G	14.10705107	13.33407278	1.057970157	0.081299
RPSAP12	14.10705107	13.33407278	1.057970157	0.081299
SEC22B	1013.218197	957.8308945	1.057825763	0.081102
DCTN3	287.9498071	272.2373192	1.057716142	0.080953
SYPL1	750.9930127	710.0393754	1.057677981	0.0809
SRRT	1921.878251	1817.878589	1.057209356	0.080261
SNAP29	257.2462253	243.3468282	1.057117643	0.080136
TCEAL3	500.3853996	473.3595836	1.057093628	0.080103
EIF2B1	551.8346447	522.2511838	1.056646039	0.079492
TEK	96.25987787	91.11616398	1.056452266	0.079228
SS18L1	308.6954704	292.2384284	1.056313751	0.079038
ACAD9	801.6124312	758.9309756	1.056238916	0.078936
MRTFB	2556.695549	2421.245382	1.055942355	0.078531
POLR2C	272.1831029	257.7920737	1.055824173	0.07837
EGR3	68.04577574	64.44801842	1.055824173	0.07837
PLPP5	281.3111948	266.6814555	1.05485848	0.077049
APOOL	500.3853996	474.4707563	1.054617999	0.076721
MAT2B	725.2683902	687.8159208	1.054451298	0.076492
TOM1L1	1103.669289	1046.724713	1.054402629	0.076426
RAB5B	517.8117568	491.1383473	1.05430936	0.076298
ADAM23	79.6633472	75.55974574	1.05430936	0.076298
RSPH10B	19.9158368	18.88993643	1.05430936	0.076298
GNAQP1	19.9158368	18.88993643	1.05430936	0.076298
ZNF416	230.6917763	218.9010281	1.053863375	0.075688
RUFY2	624.0295531	592.2550659	1.053650005	0.075396
DNAJC2	262.2251845	248.9026918	1.053524904	0.075224
AP2M1	2006.520558	1905.661234	1.052926156	0.074404
AGAP2	71.36508187	67.78153662	1.052869047	0.074326
BTRC	491.2573078	466.6925472	1.052635854	0.074006
ZNF140	411.5939605	391.1328015	1.052312562	0.073563
LEKR1	25.72462253	24.44580009	1.052312562	0.073563
SLC44A1	1730.188322	1644.535643	1.0520832	0.073249
BID	82.98265334	78.89326393	1.051834456	0.072908
NRSN2	171.7740924	163.3423915	1.051619796	0.072613
ERBB4	546.8556855	520.0288383	1.05158723	0.072569
HAL	88.79143907	84.44912759	1.051419258	0.072338
MECR	104.5610295	95.43005134	0.912673218	-0.13183
RPUSD4	104.5610295	95.43005134	0.912673218	-0.13183
CRB3	41.82441182	38.17202053	0.912673218	-0.13183
KDM8	41.82441182	38.17202053	0.912673218	-0.13183
TMPRSS3	20.91220591	19.08601027	0.912673218	-0.13183
NKPD1	20.91220591	19.08601027	0.912673218	-0.13183
ECT2L	20.91220591	19.08601027	0.912673218	-0.13183
ZBED3-AS1	20.91220591	19.08601027	0.912673218	-0.13183
NCOA2	3520.95509	3213.088337	0.912561579	-0.132006
CRNKL1	1415.426147	1291.210086	0.912241227	-0.132513
PABIR3	89.15203572	81.32300027	0.912183324	-0.132604
TMEM216	89.15203572	81.32300027	0.912183324	-0.132604
ENKD1	47.3276239	43.15097974	0.911750394	-0.133289
TMEM143	47.3276239	43.15097974	0.911750394	-0.133289
ZBTB24	599.8501169	546.8556855	0.911653878	-0.133442
DTNA	336.7965794	307.0358173	0.911635795	-0.133471
DCTN2	569.0321292	518.6415834	0.911445166	-0.133772
EIF4H	1222.813725	1114.457034	0.911387411	-0.133864
SLC27A1	179.4047139	163.4758271	0.911212552	-0.13414
VAMP1	132.07709	120.3248473	0.911019825	-0.134446
MSTN	52.83083598	48.12993894	0.911019825	-0.134446
TM9SF2	2827.550367	2575.78156	0.910958683	-0.134542
PTPN6	322.488228	293.7585928	0.910912608	-0.134615
KRI1	359.9100701	327.7814807	0.910731618	-0.134902
SCAND3	58.33404806	53.10889814	0.910427099	-0.135385
CAPNS1	1655.366194	1506.964985	0.910351432	-0.135505
PIBF1	297.1734524	270.5234499	0.910321725	-0.135552
IP6K1	392.9293426	357.6552359	0.910227863	-0.1357
FURIN	701.1092192	638.1366042	0.910181448	-0.135774
RAMACL	31.91863007	29.04392867	0.909936567	-0.136162
ENSG000002	31.91863007	29.04392867	0.909936567	-0.136162
NUP54	692.3040799	629.8383388	0.909771237	-0.136424
TLNRD1	234.4368347	213.2654191	0.909692452	-0.136549
TMEM117	138.6809445	126.1336331	0.909523897	-0.136817
NDUFAF3	208.0214167	189.2004496	0.909523897	-0.136817
CEP112	805.6702487	732.736829	0.90947485	-0.136894
KATNBL1	106.7623144	97.0897044	0.909400522	-0.137012
TAF3	609.7558986	554.3241243	0.90909186	-0.137502
ZNF234	304.8779493	277.1620621	0.90909186	-0.137502
ARCN1	1690.586751	1536.83874	0.90905642	-0.137558
OSBPL7	123.2719506	112.026582	0.908775934	-0.138003
NBPF9	466.6723845	424.0413586	0.908648921	-0.138205
TMEM204	42.92505424	39.00184707	0.908603326	-0.138278
ANP32A	1798.449708	1633.928444	0.908520509	-0.138409
PALM	225.6316953	204.9671537	0.908414722	-0.138577
RPL10A	1832.569623	1664.632026	0.9083595	-0.138665
SASH1	1205.203446	1094.541198	0.908179612	-0.13895
ZNF391	48.42826632	43.98080627	0.908163963	-0.138975
CUL5	727.5246372	660.5419206	0.907930655	-0.139346
ATXN7L2	64.93790256	58.91768387	0.907292683	-0.14036
MRPS11	281.7644586	255.5865723	0.907093015	-0.140678
NAP1L3	70.44111464	63.89664307	0.907093015	-0.140678
DTNB	774.8522611	702.8630738	0.907093015	-0.140678
NAXD	146.3854414	132.7722453	0.90700444	-0.140818
CEP104	624.06425	565.9416958	0.906864471	-0.141041
ZNF808	1570.616728	1423.982331	0.906638969	-0.1414
MTM1	353.3062156	320.3130419	0.906615926	-0.141437
RPL23A	2231.002178	2021.457435	0.906075958	-0.142296
APOL4	136.4796596	123.6441535	0.905952974	-0.142492
PIAS4	278.4625313	252.2672661	0.90592894	-0.14253
SPOCK3	1026.899374	930.2355439	0.905868255	-0.142627
GPHN	895.9229269	811.5703496	0.9058484	-0.142658
WRN	655.9828801	594.1557979	0.905748939	-0.142817
LRRC8A	766.0471217	693.7349819	0.905603536	-0.143049
RNF10	1703.79446	1542.647526	0.905418794	-0.143343
SLC6A16	257.5503254	233.1812559	0.905381329	-0.143403
PLEKHH2	608.6552562	551.0048182	0.90528228	-0.14356
RHOT2	378.6209912	342.7183583	0.905175271	-0.143731
ZDHHC9	488.6852328	442.2975423	0.905076545	-0.143888
ENSAP2	55.03212081	49.789592	0.904736929	-0.14443
MYCBPAP	27.51606041	24.894796	0.904736929	-0.14443
PSEN2	27.51606041	24.894796	0.904736929	-0.14443
TMEM54	159.5931504	144.3898168	0.904736929	-0.14443
TMEM218	49.52890873	44.8106328	0.904736929	-0.14443
ATP6AP1L	49.52890873	44.8106328	0.904736929	-0.14443
PGAP4	93.55460539	84.6423064	0.904736929	-0.14443
LY86	16.50963624	14.9368776	0.904736929	-0.14443
ZNF837	16.50963624	14.9368776	0.904736929	-0.14443
HTRA4	16.50963624	14.9368776	0.904736929	-0.14443
ENSG000002	16.50963624	14.9368776	0.904736929	-0.14443
RPS3AP26	44.02569665	39.8316736	0.904736929	-0.14443
GLYATL2	22.01284833	19.9158368	0.904736929	-0.14443
LINC01176	22.01284833	19.9158368	0.904736929	-0.14443
SYNDIG1	11.00642416	9.9579184	0.904736929	-0.14443
TREML1	11.00642416	9.9579184	0.904736929	-0.14443
HEPHL1	11.00642416	9.9579184	0.904736929	-0.14443
DDX47	11.00642416	9.9579184	0.904736929	-0.14443
MTCO1P11	11.00642416	9.9579184	0.904736929	-0.14443
ENSG000002	11.00642416	9.9579184	0.904736929	-0.14443
RASA4	5.503212081	4.9789592	0.904736929	-0.14443
OTUD4P1	5.503212081	4.9789592	0.904736929	-0.14443
CRISP1	5.503212081	4.9789592	0.904736929	-0.14443
RHCG	5.503212081	4.9789592	0.904736929	-0.14443
NR1I3	5.503212081	4.9789592	0.904736929	-0.14443
NXF3	5.503212081	4.9789592	0.904736929	-0.14443
CCDC78	5.503212081	4.9789592	0.904736929	-0.14443
HCN1	5.503212081	4.9789592	0.904736929	-0.14443
GPR85	5.503212081	4.9789592	0.904736929	-0.14443
PSG6	5.503212081	4.9789592	0.904736929	-0.14443
OR1L8	5.503212081	4.9789592	0.904736929	-0.14443
FXNP2	5.503212081	4.9789592	0.904736929	-0.14443

TM4SF18	27.51606041	12.22290005	0.444209668	-1.170687
OXCT2P1	27.51606041	12.22290005	0.444209668	-1.170687
RPL23AP42	110.0642416	48.89160018	0.444209668	-1.170687
KIRREL1	337.8972218	150.0083187	0.443946588	-1.171542
CTH	127.6745203	56.6698093	0.443861541	-1.171818
LTV1	145.284799	64.44801842	0.443597809	-1.172676
ZNF300	217.9271984	96.67202764	0.443597809	-1.172676
ZNF25	578.937911	256.680901	0.443365162	-1.173433
PTPN14	2466.539655	1093.393968	0.44329065	-1.173675
GLS2	45.12633907	20.00110917	0.443224724	-1.17389
SNORA53	45.12633907	20.00110917	0.443224724	-1.17389
CHD2	6704.012958	2971.275884	0.443208553	-1.173942
DYM	1190.895094	527.8070474	0.443201966	-1.173964
CCDC43	215.7259136	95.5608549	0.442973463	-1.174708
LIG4	537.1134992	237.7909645	0.442720142	-1.175533
PHACTR4	1628.950776	721.1511027	0.442708959	-1.17557
UBN2	2520.471133	1115.617422	0.442622575	-1.175851
CGREF1	223.4304105	98.8943731	0.442618231	-1.175865
CREB3L4	464.4710997	205.5669553	0.442582876	-1.17598
BTF3L4	246.5439013	108.8949277	0.441685749	-1.178908
HNRNPA1P7	70.44111464	31.11283648	0.441685749	-1.178908
ENSG000002	35.22055732	15.55641824	0.441685749	-1.178908
CMA1	17.61027866	7.77820912	0.441685749	-1.178908
ZIM3	17.61027866	7.77820912	0.441685749	-1.178908
SNX10-AS1	17.61027866	7.77820912	0.441685749	-1.178908
SF3A3	752.8394127	332.2406467	0.441316755	-1.180114
FGD4	533.8115719	235.5686191	0.441295452	-1.180183
DTX4	332.3940097	146.6748005	0.441267882	-1.180273
COQ9	234.4368347	103.339064	0.440797045	-1.181814
USP42	1065.421859	468.9148927	0.440121337	-1.184027
PCLO	4989.212073	2195.677317	0.440084984	-1.184146
MCF2L2	128.7751627	56.6698093	0.440067852	-1.184202
ANKRD31	85.85010847	37.77987287	0.440067852	-1.184202
LAG3	42.92505424	18.88993643	0.440067852	-1.184202
CCAR1	3139.032171	1381.187705	0.440004317	-1.18441
SEC61G	333.4946521	146.6748005	0.439811552	-1.185043
EFR3A	2248.612456	988.943731	0.439801767	-1.185075
PDE4DIP	836.4882364	367.7981741	0.439693182	-1.185431
PDCD7	399.5331971	175.5652916	0.439426042	-1.186308
POLQ	194.8137077	85.56030032	0.439190349	-1.187082
TAF1D	769.349049	337.7965104	0.439067951	-1.187484
SPARCL1	8652.150035	3797.988396	0.438964694	-1.187823
PLCZ1	25.31477557	11.11172731	0.438942359	-1.187897
LRRC25	25.31477557	11.11172731	0.438942359	-1.187897
DLEU1	25.31477557	11.11172731	0.438942359	-1.187897
THBS4-AS1	25.31477557	11.11172731	0.438942359	-1.187897
TIPARP	1008.188453	442.2467471	0.438654842	-1.188842
DIMT1	552.522493	242.2356555	0.438417727	-1.189622
GNA15	83.64882364	36.66870014	0.438364804	-1.189796
CFAP221	58.33404806	25.55697282	0.438114166	-1.190621
NETO1	58.33404806	25.55697282	0.438114166	-1.190621
FANCA	91.35332055	40.00221833	0.437884667	-1.191377
RPS15A	124.372593	54.44746384	0.437777026	-1.191732
TPM4	1678.479685	734.4851755	0.437589553	-1.19235
ENSG000002	132.07709	57.78098203	0.437479218	-1.192714
EIF4A3	99.05781747	43.33573653	0.437479218	-1.192714
SMURF2	1877.695962	821.1566485	0.437321411	-1.193234
HNRNPA3	1497.974329	654.4807388	0.436910517	-1.19459
SC5D	1757.725939	767.8203574	0.436825981	-1.194869
DNAH5	3348.15423	1462.303315	0.43674909	-1.195123
TCEAL8	318.0856583	138.8965914	0.436664112	-1.195404
RHOQP2	40.7237694	17.7787637	0.436569698	-1.195716
ITGB1P1	544.8179961	237.7909645	0.436459453	-1.19608
MEF2C	560.2269899	244.4580009	0.436355273	-1.196425
PPWD1	654.8822377	285.571392	0.436065258	-1.197384
VAPB	897.0235693	391.1328015	0.436034029	-1.197487
PPIL6	145.284799	63.33684569	0.43594957	-1.197767
BUB1B	96.85653263	42.22456379	0.43594957	-1.197767
STARD4	48.42826632	21.1122819	0.43594957	-1.197767
PTPN12	2542.483982	1107.839213	0.435731049	-1.19849
ZNF750	56.13276323	24.44580009	0.435499674	-1.199256
PLAU	112.2655265	48.89160018	0.435499674	-1.199256
MS4A6A	737.4304189	321.1289194	0.435470129	-1.199354
SASS6	255.3490406	111.1172731	0.435158373	-1.200388
AP1AR	270.7580344	117.7843095	0.435016858	-1.200857
GRK4	71.54175706	31.11283648	0.434890584	-1.201276
STX19	71.54175706	31.11283648	0.434890584	-1.201276
MBNL2	825.4818122	358.9087923	0.434787038	-1.201619
KRT8	1610.239855	700.0388208	0.434741954	-1.201769
ZNF253	467.7730269	203.3446099	0.434707856	-1.201882
TSPYL2	1188.69381	516.6953201	0.434674864	-1.201991
RUBCNL	102.3597447	44.44690926	0.434222549	-1.203493
SYF2	1654.265552	717.8175845	0.4339192	-1.204502
ZBTB39	391.8287002	170.0094279	0.433887124	-1.204608
TMA16	140.8822293	61.11450023	0.433798503	-1.204903
ABI3BP	2193.580336	951.1638581	0.433612502	-1.205522
CDK13	2033.987185	881.159976	0.433218057	-1.206835
SEC24D	2156.158494	933.3850944	0.432892618	-1.207919
CLEC12A	30.81798766	13.33407278	0.432671754	-1.208655
POLA2	15.40899383	6.667036389	0.432671754	-1.208655
PRKCG	15.40899383	6.667036389	0.432671754	-1.208655
CLECL1P	15.40899383	6.667036389	0.432671754	-1.208655
SCGB2B2	15.40899383	6.667036389	0.432671754	-1.208655
TRAJ9	15.40899383	6.667036389	0.432671754	-1.208655
EMX2OS	15.40899383	6.667036389	0.432671754	-1.208655
FRG1FP	15.40899383	6.667036389	0.432671754	-1.208655
OTC	7.704496914	3.333518194	0.432671754	-1.208655
SPO11	7.704496914	3.333518194	0.432671754	-1.208655
BDKRB1	7.704496914	3.333518194	0.432671754	-1.208655
SUN3	7.704496914	3.333518194	0.432671754	-1.208655
ZNF23	7.704496914	3.333518194	0.432671754	-1.208655
GLIS3	329.4411337	313.3507103	1.051349568	0.072242
VTI1B	727.7578698	692.2606117	1.051277304	0.072143
IQCH	189.2004496	180.0099825	1.051055319	0.071839
GFOD1	163.4758271	155.5641824	1.050857752	0.071567
APOL3	68.87560227	65.55919115	1.050586517	0.071195
SGTB	180.9021843	172.2317734	1.05034153	0.070859
GRB7	224.053164	213.3451644	1.050190964	0.070652
FZD5	405.7851748	386.6881105	1.04938622	0.069546
UBE2D3	826.5072272	787.8214666	1.04910473	0.069159
CCM2L	48.95976547	46.66925472	1.049079651	0.069124
CLEC11A	48.95976547	46.66925472	1.049079651	0.069124
CHSY1	794.973819	757.8198028	1.049027508	0.069053
ERCC4	507.0240119	483.3601382	1.048957024	0.068956
KCTD13	458.0642464	436.6908835	1.048943918	0.068938
ZNF773	103.7283167	98.8943731	1.048879865	0.068849
ARHGAP26	449.7659811	428.9126743	1.048619003	0.068491
PPP2CB	850.5721967	811.1560939	1.0485925	0.068454
C11orf24	337.7393991	322.2400921	1.04809863	0.067774
AGPAT3	427.3606647	407.8003924	1.04796531	0.067591
MCU	444.7870219	424.4679834	1.047869425	0.067459
TIMM44	372.5921135	355.5752741	1.047857207	0.067442
RPL24P4	239.8198681	228.9015827	1.047698602	0.067224
ZNF222	167.6249597	160.0088733	1.0475979	0.067085
SLC38A6	263.0550111	251.1250373	1.047506111	0.066959
ANAPC16	503.7047058	481.1377927	1.046903223	0.066128
REEP3	495.4064404	473.3595836	1.046575284	0.065676
NT5DC1	411.5939605	393.3551469	1.046367294	0.065389
TNRC6B	1963.369578	1876.770743	1.046142468	0.065079
HECTD1	6789.640696	6492.58227	1.04575351	0.064543
CHRDL1	23.23514293	22.22345463	1.045523449	0.064225
COL17A1	11.61757147	11.11172731	1.045523449	0.064225
IFI27	11.61757147	11.11172731	1.045523449	0.064225
ENSG000002	11.61757147	11.11172731	1.045523449	0.064225
NR4A3	58.08785734	55.55863657	1.045523449	0.064225
HES4	98.74935747	94.44968217	1.045523449	0.064225
ITK	5.808785734	5.555863657	1.045523449	0.064225
TNFSF4	5.808785734	5.555863657	1.045523449	0.064225
RPS9	5.808785734	5.555863657	1.045523449	0.064225
CXCR3	5.808785734	5.555863657	1.045523449	0.064225
RPL17P50	5.808785734	5.555863657	1.045523449	0.064225
PSME2P2	5.808785734	5.555863657	1.045523449	0.064225
ENSG000002	5.808785734	5.555863657	1.045523449	0.064225
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KRT18P15	5.808785734	5.555863657	1.045523449	0.064225
LAMTOR5P	5.808785734	5.555863657	1.045523449	0.064225
PHF5AP5	5.808785734	5.555863657	1.045523449	0.064225
NAIPP4	5.808785734	5.555863657	1.045523449	0.064225
ENSG000002	5.808785734	5.555863657	1.045523449	0.064225
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SLAIN1	156.8372148	150.0083187	1.045523449	0.064225
HOMER3	34.8527144	33.33518194	1.045523449	0.064225
SINHCAFP2	17.4263572	16.66759097	1.045523449	0.064225
LAMTOR3	203.3075007	194.455228	1.045523449	0.064225
TMEM64	287.9498071	275.5708374	1.044921189	0.063394
FNIP2	840.6142783	804.4890576	1.044904552	0.063371
CTNNA1	2800.66455	2681.259801	1.044533077	0.062858
NDUFS2	955.1303399	914.495158	1.044434551	0.062722
METTL1	102.0686636	97.78320037	1.043826171	0.061881
CCDC93	367.6131543	352.2417559	1.043638774	0.061622
RNF114	548.5153386	525.584702	1.043628813	0.061609
SF3B1	10677.378	10231.67851	1.043560741	0.061515
HS6ST2	84.6423064	81.11560939	1.043477415	0.061399
SPAG1	324.4621745	311.1283648	1.042856297	0.06054
C14orf119	295.4182459	283.3490465	1.042594812	0.060179
INTS4	930.2355439	892.2717033	1.042547399	0.060113
PSMB7	1168.395759	1121.173286	1.0421188	0.05952
FNDC10	49.789592	47.78042745	1.042049949	0.059424
AMMECR1	93.77039827	90.00499125	1.041835536	0.059128
CACNA2D3	369.2728073	354.4641013	1.041777731	0.059048
HPS3	958.449646	920.0510216	1.041735321	0.058989
CCDC124	313.6744296	301.1278102	1.041665429	0.058892
ZNF391	43.98080627	42.22456379	1.04159291	0.058792
ENSG000002	43.98080627	42.22456379	1.04159291	0.058792
GAREM1	651.4138287	625.5902478	1.041278746	0.058356
AFF4	3194.002327	3067.947912	1.041087534	0.058091
DENND4C	2496.948039	2399.021927	1.040819182	0.057719
ARMT1	455.5747668	437.8020562	1.040595311	0.057409
CHST2	270.5234499	260.0144192	1.040417107	0.057162
ANKRD13A	576.7294407	554.475193	1.040135696	0.056772
SRF	741.8649208	713.3728936	1.039939879	0.0565
TRIM28	2099.461129	2019.000853	1.039851532	0.056378
NEDD4	256.4163988	246.6803464	1.039468294	0.055846
OPA3	191.6899292	184.4546734	1.039225115	0.055508
IFT27	100.4090105	96.67202764	1.0386563	0.054718
ABITRAM	73.85456147	71.11505481	1.038522176	0.054532
P4HA1	2173.315691	2093.449426	1.038150559	0.054016
AK3	833.975666	803.3778848	1.038086412	0.053927
ALOX5AP	115.3458881	111.1172731	1.038055424	0.053883
RPS6KA6	576.7294407	555.5863657	1.038055424	0.053883
VEZT	2108.589221	2032.334926	1.037520536	0.05314
PTHLH	41.49132667	40.00221833	1.037225644	0.05273
TBXA2R	20.74566333	20.00110917	1.037225644	0.05273
TMEM154	20.74566333	20.00110917	1.037225644	0.05273
ARHGAP23	20.74566333	20.00110917	1.037225644	0.05273
LARP4B	1721.890057	1660.092061	1.037225644	0.05273
AKAP11	2493.628733	2404.577791	1.03703392	0.052463
HADHA	3486.931093	3363.519858	1.036691098	0.051986
BIRC6	12708.79336	12260.67992	1.036548825	0.051788
SSBP3	338.5692256	326.684783	1.036378929	0.051552
NPAP1	5.503212081	4.9789592	0.904736929	-0.14443
BPIFB3	5.503212081	4.9789592	0.904736929	-0.14443
RNU6-1099P	5.503212081	4.9789592	0.904736929	-0.14443
FAM205A	5.503212081	4.9789592	0.904736929	-0.14443
CD200R1L	5.503212081	4.9789592	0.904736929	-0.14443
DUXAP9	5.503212081	4.9789592	0.904736929	-0.14443
ENSG000002	5.503212081	4.9789592	0.904736929	-0.14443
GOT2P2	5.503212081	4.9789592	0.904736929	-0.14443
ZNRF3-IT1	5.503212081	4.9789592	0.904736929	-0.14443
RMDN2-AS1	5.503212081	4.9789592	0.904736929	-0.14443
BCYRN1	5.503212081	4.9789592	0.904736929	-0.14443
ENSG000002	5.503212081	4.9789592	0.904736929	-0.14443
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C3orf36	5.503212081	4.9789592	0.904736929	-0.14443
PRMT9	523.9057902	473.8309506	0.904420145	-0.144935
GEMIN5	778.1541883	703.6929003	0.904310368	-0.14511
RAB8A	823.2805274	744.3544004	0.904132159	-0.145394
OLFML2B	259.7516102	234.8409089	0.904097991	-0.145449
SRSF8	215.7259136	195.0092353	0.903967595	-0.145657
RBM19	791.3618973	715.3104718	0.903898045	-0.145768
ERVK13-1	193.7130653	175.0933985	0.903880171	-0.145797
GCFC2	421.5460454	380.8903788	0.903555811	-0.146314
KIF9	205.8201318	185.8811435	0.903124208	-0.147004
XXYLT1	100.1584599	90.45109214	0.903079902	-0.147074
SLC46A1	395.1306275	356.8254093	0.903056824	-0.147111
ENSG000002	89.15203572	80.49317374	0.902875331	-0.147401
UPF3A	440.2569665	397.4869095	0.902852061	-0.147438
TEX2	1839.173478	1660.482893	0.902841909	-0.147455
NR2F1-AS1	83.64882364	75.51421454	0.902752857	-0.147597
CEP170B	1350.488245	1219.015178	0.902647751	-0.147765
KLHL41	78.14561156	70.53525534	0.902613134	-0.14782
AEBP2	1100.642416	993.3023604	0.902475087	-0.148041
GALNT14	56.13276323	50.61941854	0.901780273	-0.149152
DENND4B	771.5503338	695.394635	0.901295229	-0.149928
RABGAP1	1980.055707	1784.127047	0.901048915	-0.150323
SLC30A5	829.8843819	747.6737066	0.900937194	-0.150502
USP34	7186.094336	6473.476787	0.900833817	-0.150667
ZNF646	668.0899467	601.6242367	0.90051383	-0.15118
ZNF343	385.2248457	346.8674909	0.900428658	-0.151316
LRIF1	1122.655265	1010.728718	0.900301944	-0.151519
CREBRF	669.1905891	602.4540632	0.900272767	-0.151566
CLCN5	307.0792341	276.3322356	0.899872752	-0.152207
ESYT2	1496.873686	1346.808464	0.899747571	-0.152408
RPAP2	592.14562	532.7486344	0.899691928	-0.152497
NOA1	679.0963709	610.7523286	0.899360319	-0.153029
IFT46	302.6766645	272.1831029	0.899253675	-0.1532
FHIP1B	417.1434758	375.0815931	0.899166869	-0.153339
CHD8	8248.214268	7416.159729	0.899123069	-0.153409
DUSP22	205.8201318	185.0513169	0.899092403	-0.153459
SIGIRR	143.0835141	128.6231127	0.898937334	-0.153708
RPS23	1151.271967	1034.793687	0.898826443	-0.153886
PSMC2	1020.29552	916.9583194	0.898718363	-0.154059
ZNF506	723.1220675	649.7541756	0.898540101	-0.154345
MRI1	132.07709	118.6651943	0.898454034	-0.154483
CBR1	183.8072835	165.1354801	0.898416412	-0.154544
SRSF5	2463.237728	2212.317538	0.898133994	-0.154997
SLC25A43	74.84368431	67.2159492	0.898084452	-0.155077
PGGT1B	391.8287002	351.8464501	0.897959874	-0.155277
CLEC4F	46.22698148	41.49132667	0.897556478	-0.155925
NPTN-IT1	23.11349074	20.74566333	0.897556478	-0.155925
ANXA11	1452.84799	1303.657484	0.897311689	-0.156319
GPATCH11	173.9015018	156.0073883	0.897102019	-0.156656
KLHL3	86.95075089	78.00369414	0.897102019	-0.156656
COG6	411.6402637	369.2728073	0.897076501	-0.156697
TSPYL4	278.4625313	249.7777865	0.896988853	-0.156838
BICRAL	1852.381187	1661.31272	0.896852512	-0.157057
NPHP1	372.0171367	333.5902664	0.89670672	-0.157292
ZNF618	779.2548307	698.7139411	0.896643708	-0.157393
ZNF784	40.7237694	36.51236747	0.896586146	-0.157486
CCDC115	99.05781747	88.79143907	0.896359736	-0.15785
ZNF708	588.8436927	527.7696752	0.896281444	-0.157976
DMXL2	2934.312682	2629.720284	0.896196339	-0.158113
XPC	851.8972302	763.4404107	0.896164917	-0.158164
RRAS2	309.280519	277.1620621	0.896151051	-0.158186
CHAMP1	1155.674537	1035.623514	0.896120387	-0.158236
NIT1	344.5010763	308.6954704	0.896065329	-0.158324
EYA1	958.6595446	858.870462	0.895907694	-0.158578
NT5DC3	1055.516077	945.1724215	0.895459995	-0.159299
NAPRT	17.61027866	15.76670413	0.895312586	-0.159537
ZNF571-AS1	17.61027866	15.76670413	0.895312586	-0.159537
ENSG000002	17.61027866	15.76670413	0.895312586	-0.159537
CPSF4	158.4925079	141.9003372	0.895312586	-0.159537
LHFPL6	429.2505424	384.2096849	0.895070937	-0.159926
SNRPN	152.9892959	136.921378	0.894973581	-0.160083
THAP5	471.0749542	421.551879	0.894872196	-0.160246
RASA1	1168.882246	1045.581432	0.894513913	-0.160824
VEZT	2357.576056	2108.589221	0.894388631	-0.161026
DDX42	2908.997906	2601.506182	0.89429634	-0.161175
TOMM20	414.9421909	370.9324604	0.893937682	-0.161754
RPUSD3	148.5867262	132.7722453	0.893567338	-0.162352

SYCP1	7.704496914	3.333518194	0.432671754	-1.208655
RN7SKP255	7.704496914	3.333518194	0.432671754	-1.208655
TRAV8-3	7.704496914	3.333518194	0.432671754	-1.208655
RPL12P12	7.704496914	3.333518194	0.432671754	-1.208655
ARL4AP2	7.704496914	3.333518194	0.432671754	-1.208655
UGT2B24P	7.704496914	3.333518194	0.432671754	-1.208655
LINC02482	7.704496914	3.333518194	0.432671754	-1.208655
ENSG000002	7.704496914	3.333518194	0.432671754	-1.208655
BCDIN3D-AS	7.704496914	3.333518194	0.432671754	-1.208655
OXA1L-DT	7.704496914	3.333518194	0.432671754	-1.208655
ENSG000002	7.704496914	3.333518194	0.432671754	-1.208655
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PMS2P2	7.704496914	3.333518194	0.432671754	-1.208655
ENSG000002	7.704496914	3.333518194	0.432671754	-1.208655
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TEKT4P2.1	7.704496914	3.333518194	0.432671754	-1.208655
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YEATS4	100.1584599	43.33573653	0.432671754	-1.208655
PHF1	69.34047223	30.00166375	0.432671754	-1.208655
PLAGL1	716.518213	310.0171921	0.432671754	-1.208655
HAPLN3	38.52248457	16.66759097	0.432671754	-1.208655
OVCH2	23.11349074	10.00055458	0.432671754	-1.208655
EWSR1	3529.760229	1526.751333	0.432536839	-1.209105
LEO1	997.1820292	431.1350198	0.432353379	-1.209717
RGPD5	244.3426164	105.5614095	0.432022097	-1.210823
BTAF1	2271.725947	981.1655219	0.431903119	-1.21122
SELENOP	4486.218489	1936.774071	0.431716394	-1.211844
PPID	762.7451945	328.9071285	0.431214947	-1.213521
ZCCHC17	316.9850159	136.674246	0.431169422	-1.213673
CD2AP	1433.036426	617.8120387	0.431120959	-1.213835
SLTM	3306.329819	1424.523442	0.43084735	-1.214751
MED7	337.8972218	145.5636278	0.430792615	-1.214935
TIMM21	149.6873686	64.44801842	0.430550814	-1.215745
NDUFV3	418.2441182	180.0099825	0.430394534	-1.216268
R3HDM1	1751.122084	753.3751119	0.430224208	-1.216839
RNF185	126.5738779	54.44746384	0.430163512	-1.217043
NUB1	935.5460539	402.2445288	0.429956951	-1.217736
DOCK2	749.5374855	322.2400921	0.429918581	-1.217865
PSMA4	1134.762331	487.8048291	0.429874006	-1.218014
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SNAPC5	147.4860838	63.33684569	0.42944286	-1.219462
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AXL	722.0124251	310.0171921	0.429373951	-1.219693
ZNF738	139.7815869	60.0033275	0.42926489	-1.22006
ABHD14A	88.0513933	37.77987287	0.429066156	-1.220728
RPS3AP26	44.02569665	18.88993643	0.429066156	-1.220728
PLEKHH2	608.6552562	261.1255919	0.429020516	-1.220881
RALGAPB	7634.055799	3272.403694	0.428658603	-1.222099
PIP4K2A	744.0342734	318.9065739	0.428618123	-1.222235
ERGIC2	1229.417579	526.6958747	0.428410886	-1.222933
PAXIP1	923.4389873	395.5774924	0.42837426	-1.223056
CHD1	1997.665986	855.6030032	0.428301332	-1.223302
OPN3	36.32119974	15.55641824	0.428301332	-1.223302
RP1	36.32119974	15.55641824	0.428301332	-1.223302
LAMTOR5-A	36.32119974	15.55641824	0.428301332	-1.223302
ENSG000002	36.32119974	15.55641824	0.428301332	-1.223302
OSBPL9	3331.644594	1426.745787	0.428240692	-1.223506
SPECC1	1806.154205	773.3762211	0.428189475	-1.223679
EIF4EP2	137.580302	58.89215477	0.428056589	-1.224127
C9orf152	340.0985066	145.5636278	0.428004313	-1.224303
PALM2AKAI	649.3790256	277.7931829	0.427782808	-1.22505
ENSG000002	64.93790256	27.77931829	0.427782808	-1.22505
RAB12	423.7473303	181.1211552	0.427427248	-1.226249
RNFT1	301.5760221	128.8960368	0.427408107	-1.226314
SEMA3C	2160.561063	923.3845398	0.427381829	-1.226403
IDH3A	780.3554732	333.3518194	0.427179447	-1.227086
H2AZ2P1	57.23340565	24.44580009	0.42712468	-1.227271
MARK3	2330.059995	994.4995946	0.42681287	-1.228324
CROT	406.1370516	173.3429461	0.426808993	-1.228338
L3MBTL3	369.8158519	157.7865279	0.426662424	-1.228833
ZNF131	390.7280578	166.6759097	0.426577786	-1.229119
ZNF800	1243.72593	530.0293929	0.426162533	-1.230524
C1orf115	190.411138	81.11560939	0.42600244	-1.231066
IFIT5	253.1477557	107.7837549	0.425774088	-1.23184
NUP107	723.1220675	307.7948466	0.425647149	-1.23227
ZNF439	112.2655265	47.78042745	0.425601954	-1.232423
RGS5	1394.513941	593.3662386	0.425500399	-1.232768
TIMM23	1078.629568	458.9143381	0.425460558	-1.232903
SYTL3	350.0042884	148.897146	0.425415205	-1.233056
ENSG000002	146.3854414	62.22567296	0.425081022	-1.23419
PURG	20.91220591	8.889381852	0.425081022	-1.23419
TPTEP2	20.91220591	8.889381852	0.425081022	-1.23419
PAPPA-AS1	20.91220591	8.889381852	0.425081022	-1.23419
RNF133	62.73661773	26.66814555	0.425081022	-1.23419
RPL36AL	2368.58248	1006.722495	0.425031639	-1.234358
BCL2L1	1079.73021	458.9143381	0.425026857	-1.234374
RPS27	319.1863007	135.5630732	0.424714572	-1.235434
COTL1	290.5695979	123.3401732	0.424477213	-1.236241
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OMA1	1197.498949	507.8059383	0.424055435	-1.237675
CARD16	144.1841565	61.11450023	0.423864187	-1.238326
DHCR24	2372.98505	1005.611322	0.423774824	-1.23863
ORC4	390.7280578	165.564737	0.423733934	-1.238769
FEM1C	1185.391882	502.2500746	0.423699607	-1.238886
SLC18A2	34.11991491	14.44524551	0.423366985	-1.240019
SRPX	102.3597447	43.33573653	0.423366985	-1.240019
CRTC3	1336.179893	565.5869203	0.423286507	-1.240294
LYSMD3	674.6938012	285.571392	0.423260732	-1.240381
ZNF226	389.1886441	375.5763832	1.036243655	0.051363
TAFA2	35.68254093	34.44635467	1.035887288	0.050867
GLB1	1870.429006	1805.655689	1.035872463	0.050846
RDH14	279.6515417	270.0149737	1.035689013	0.050591
RBMS3	121.9845004	117.7843095	1.03566002	0.05055
PHC2	833.1458395	804.4890576	1.035621096	0.050496
ZNF689	258.9058784	250.0138646	1.035566083	0.05042
CASP7	268.0339703	258.9032464	1.035266935	0.050003
RXYLT1	217.4145517	210.0116462	1.035249976	0.049979
PPM1F	160.9863475	155.5641824	1.034854842	0.049428
THEMIS2	95.43005134	92.22733671	1.034726305	0.049249
HUS1	110.3669289	106.6725822	1.03463258	0.049119
PJA2	2867.050673	2771.264792	1.034563958	0.049023
NPIPB3	265.5444907	256.680901	1.034531551	0.048978
POLR2F	155.1775617	150.0083187	1.034459709	0.048877
ZNF106	2720.171376	2630.145855	1.034228338	0.048555
ZNF688	59.7475104	57.78098203	1.03403418	0.048284
PCOTH	14.9368776	14.44524551	1.03403418	0.048284
DHODH	104.5581432	101.1167186	1.03403418	0.048284
ZNF211	442.2975423	427.8015016	1.033884969	0.048076
PEX1	615.7312878	595.5885841	1.033819828	0.047985
JOSD1	188.3706231	182.232328	1.033683898	0.047795
OSER1	598.3049306	578.9209931	1.033482872	0.047514
SNX13	924.4267582	894.4940488	1.033463285	0.047487
ERBIN	2763.322356	2674.592765	1.033174991	0.047085
UBQLN4	832.316013	805.6002303	1.033162581	0.047067
PID1	68.87560227	66.67036389	1.033076741	0.046947
SAR1B	284.6305009	275.5708374	1.032875988	0.046667
TRAF3	362.6341951	351.1305831	1.032761635	0.046507
ANAPC13	278.8217152	270.0149737	1.032615752	0.046304
REEP4	131.9424188	127.7848641	1.03253558	0.046191
MAPK14	800.7826047	775.5985665	1.032470455	0.0461
BCL7B	243.1391743	235.5686191	1.032137367	0.045635
MAGEE1	204.1373272	197.7887462	1.032097787	0.04558
SALL2	597.475104	578.9209931	1.03204947	0.045512
PALS1	669.6700124	648.9248752	1.031968473	0.045399
ZNF816	252.2672661	244.4580009	1.031945222	0.045366
ATL3	1372.533086	1330.07376	1.031922535	0.045335
RAPGEF2	2027.266221	1964.553389	1.031922183	0.045334
PIK3CB	1682.058383	1630.090397	1.031880432	0.045276
ENSG000002	87.131786	84.44912759	1.031766562	0.045117
HERC2	1030.644554	998.9442856	1.031733771	0.045071
IREB2	1048.900738	1016.723049	1.031648431	0.044951
RBM25	1830.597333	1774.542852	1.031588124	0.044867
GPR75	144.3898168	140.0077642	1.03129864	0.044462
RIMKLBP1	24.06496947	23.33462736	1.03129864	0.044462
SMC3P1	24.06496947	23.33462736	1.03129864	0.044462
PPP2R3C	331.1007868	321.1289194	1.031052536	0.044118
FBXO3	502.8748792	487.8048291	1.030893606	0.043895
ZSCAN25	81.32300027	78.89326393	1.030797767	0.043761
RNF13	756.8017984	734.4851755	1.030384035	0.043182
TIMP3	793.3141659	770.0427029	1.030221003	0.042954
DRAP1	706.1823799	685.5935753	1.030030627	0.042687
PGS1	516.1521038	501.1389019	1.029958165	0.042586
RALGPS2	609.922502	592.2550659	1.029830789	0.042407
ZNF319	108.7072759	105.5614095	1.029801292	0.042366
MAP1A	543.5363794	527.8070474	1.029801292	0.042366
ZNF658	75.51421454	73.33740027	1.029682185	0.042199
CCDC113	42.3211532	41.11339106	1.029376369	0.041771
EIF5AL1	84.6423064	82.22678213	1.029376369	0.041771
RMDN2	93.77039827	91.11616398	1.029130224	0.041426
FBXO36	93.77039827	91.11616398	1.029130224	0.041426
PDK2	238.9900416	232.2351009	1.029086648	0.041364
ATL2	1019.85681	991.1660764	1.028946444	0.041168
PHF7	51.44924507	50.00277291	1.028927839	0.041142
PKIA	266.3743172	258.9032464	1.028856613	0.041042
P4HB	6562.268226	6379.242651	1.0286908	0.040809
FEM1A	233.1812559	226.6792372	1.028683786	0.0408
TMTC3	1193.290555	1160.064332	1.028641708	0.040741
SMCO4	60.57733694	58.89215477	1.028614714	0.040703
DYNC1I2P1	121.1546739	117.7843095	1.028614714	0.040703
HIGD2A	436.4887566	424.4679834	1.028319623	0.040289
ZNF555	166.7951332	162.2312188	1.028132159	0.040026
OGDHL	87.96161254	85.56030032	1.028065729	0.039933
ZNF875	1019.85681	992.2772492	1.027794208	0.039551
POLDIP2	576.7294407	561.1422294	1.027777648	0.039528
HECTD2	276.3322356	268.903801	1.027624878	0.039314
TBC1D12	252.2672661	245.5691736	1.027275787	0.038824
BCS1L	209.9461129	204.4557826	1.026853388	0.03823
ZNF410	36.51236747	35.55752741	1.026853388	0.03823
NFKBID	36.51236747	35.55752741	1.026853388	0.03823
KRT27	9.128091867	8.889381852	1.026853388	0.03823
PHETA2	9.128091867	8.889381852	1.026853388	0.03823
EIF4HP1	9.128091867	8.889381852	1.026853388	0.03823
TPTEP2	9.128091867	8.889381852	1.026853388	0.03823
MIR130AHC	9.128091867	8.889381852	1.026853388	0.03823
NDUFV2P1	9.128091867	8.889381852	1.026853388	0.03823
ENSG000002	9.128091867	8.889381852	1.026853388	0.03823
MRPL46	27.3842756	26.66814555	1.026853388	0.03823
KAT2B	414.0834401	403.3557015	1.026596224	0.037869
RNF121	539.3872467	525.584702	1.026261314	0.037398
DPM2	176.7530516	172.2317734	1.026251127	0.037384
SRSF9	1694.505781	1651.202679	1.026225189	0.037347
ADO	149.368776	145.5636278	1.02614079	0.037229
TSEN2	438.9782362	427.8015016	1.026125983	0.037208
TMEM106B	384.2096849	374.4652105	1.026022376	0.037062
FEZ2	537.7275936	524.4735292	1.025271179	0.036006
MGAT2	916.9583194	894.4940488	1.025113941	0.035784
SPG21	965.9180848	942.2744763	1.025092061	0.035753
ST3GAL5	177.5828781	173.3429461	1.02445979	0.034863
USP31	1472.942097	1437.857514	1.024400597	0.03478
MEGF8	1123.755907	1004.090105	0.893512638	-0.16244
MED13L	6903.229235	6168.100623	0.893509459	-0.162445
CSNK1E	160.6937928	143.5599903	0.893376078	-0.16266
PICALM	3131.327674	2796.515417	0.893076582	-0.163144
PHLPP2	489.7858753	437.3185831	0.892877082	-0.163467
LRRC37A	95.75589022	85.47213294	0.892604442	-0.163907
SEC24C	2091.220591	1866.279874	0.892435682	-0.16418
ANKRD6	161.7944352	144.3898168	0.892427583	-0.164193
TMEM41A	161.7944352	144.3898168	0.892427583	-0.164193
RPL19	1744.51823	1556.754577	0.892369337	-0.164287
NUP42	372.0171367	331.9306133	0.892245492	-0.164487
INTS10	996.0813867	888.7442172	0.892240563	-0.164495
ZFAND2B	132.07709	117.8353677	0.892171139	-0.164608
ZNF444	132.07709	117.8353677	0.892171139	-0.164608
HSD17B1-AS	144.1841565	128.6231127	0.892075217	-0.164763
CSTF1	661.4860922	590.0066652	0.891941149	-0.16498
TRAPPC8	1576.11994	1405.726148	0.891890339	-0.165062
CNKSR1	180.5053563	160.9863475	0.891864656	-0.165103
ADSS2	1072.025713	955.9601664	0.891732497	-0.165317
PIAS3	724.2227099	645.605043	0.891445455	-0.165782
TOP1	2087.918664	1860.471088	0.891064925	-0.166398
TJAP1	278.4625313	248.1181335	0.891028794	-0.166456
HSD17B1	12.10706658	10.78774493	0.891028794	-0.166456
GABRR2	12.10706658	10.78774493	0.891028794	-0.166456
ZAN	12.10706658	10.78774493	0.891028794	-0.166456
INSC	12.10706658	10.78774493	0.891028794	-0.166456
BAG6	12.10706658	10.78774493	0.891028794	-0.166456
EDRF1-DT	12.10706658	10.78774493	0.891028794	-0.166456
TUBB8	12.10706658	10.78774493	0.891028794	-0.166456
ATG9A	338.9978642	302.0568581	0.891028794	-0.166456
MEGF10	36.32119974	32.3632348	0.891028794	-0.166456
CDC40	346.7023611	308.6954704	0.890376026	-0.167513
KLHDC4	305.9785917	272.1831029	0.889549499	-0.168853
RNF14	367.614567	326.9516541	0.889387101	-0.169117
RORA	1183.190598	1052.220044	0.889307307	-0.169246
POU5F2	42.92505424	38.17202053	0.889271341	-0.169304
NOL6	528.3083598	469.6818179	0.889029691	-0.169696
STX18	264.1541799	234.8409089	0.889029691	-0.169696
AHDC1	1087.434707	966.7479114	0.889016973	-0.169717
RAPGEF1	1446.244135	1285.4013	0.888785834	-0.170092
LRRIQ1	498.5910146	443.1273688	0.888759235	-0.170135
VAC14	443.5588938	394.1676033	0.888647728	-0.170316
MYO18A	1306.462548	1160.92732	0.888603597	-0.170388
REXO2	308.1798766	273.842756	0.888580913	-0.170425
SLC38A6	296.07281	263.0550111	0.888480814	-0.170587
COQ9	234.4368347	208.2864599	0.888454496	-0.17063
TBC1D12	283.9657434	252.2672661	0.888372179	-0.170764
CHASERR	141.9828717	126.1336331	0.888372179	-0.170764
SYMPK	1376.903663	1223.16431	0.888344147	-0.170809
RPL11	7903.713191	7021.162299	0.888337181	-0.170821
CARS2	519.5032205	461.3835526	0.888124528	-0.171166
BLVRA	179.4047139	159.3266944	0.888085329	-0.17123
SH3BP1	49.52890873	43.98080627	0.887982542	-0.171397
ENTPD1-AS1	148.5867262	131.9424188	0.887982542	-0.171397
DENND10	291.6702403	258.9058784	0.887666421	-0.17191
RUSC1-AS1	124.372593	110.3669289	0.887389466	-0.172361
MGST2	510.6980812	453.0852872	0.887188153	-0.172688
CCDC25	274.0599617	243.1391743	0.887175101	-0.172709
PDE1B	18.71092108	16.59653067	0.88699699	-0.172999
MYH8	18.71092108	16.59653067	0.88699699	-0.172999
SSTR2	18.71092108	16.59653067	0.88699699	-0.172999
POM121B	18.71092108	16.59653067	0.88699699	-0.172999
BCR	724.2227099	642.2857368	0.886862188	-0.173218
PUS7	686.8008678	609.0926755	0.886854843	-0.17323
ZC3H10	175.0021442	155.1775617	0.88671806	-0.173453
CDCP1	412.7409061	365.9535012	0.886642191	-0.173576
ZSCAN26	237.7387619	210.7759395	0.886586343	-0.173667
ITGAV	1878.796605	1665.461852	0.886451385	-0.173887
MARS1	914.6338479	810.7405231	0.886409928	-0.173954
WDR83	62.73661773	55.59837774	0.886218922	-0.174265
HEATR1	2435.721667	2158.378813	0.886135244	-0.174401
ALAS1	559.1263475	495.4064404	0.886036658	-0.174562
DCAF4	113.3661689	100.4090105	0.885705246	-0.175101
ZNF786	321.3875856	284.6305009	0.885630042	-0.175224
ARF1	1639.9572	1452.196433	0.88550874	-0.175422
IFI6	239.9400468	212.4355925	0.885369472	-0.175648
PCBP1	1630.051419	1443.068342	0.885290074	-0.175778
KIF3B	1037.905799	918.6179724	0.885068735	-0.176139
FJX1	25.31477557	22.4053164	0.885068735	-0.176139
CFAP57	75.94432672	67.2159492	0.885068735	-0.176139
PURB	418.2441182	370.1026339	0.884896207	-0.17642
RTL8B	158.4925079	140.2406841	0.884841094	-0.17651
YIPF5	399.5331971	353.5061032	0.884797823	-0.17658
GPATCH1	323.5888704	286.290154	0.884734242	-0.176684
TTC9	107.8629568	95.43005134	0.884734242	-0.176684
KRBOX4	165.0963624	146.0494699	0.884631664	-0.176851
FADD	114.4668113	101.2388371	0.884438344	-0.177167
SEPTIN4	89.15203572	78.83352067	0.884259345	-0.177459
DGKI	31.91863007	28.21410213	0.883938379	-0.177982
PIWIL2	31.91863007	28.21410213	0.883938379	-0.177982
PAPLN	166.1970049	146.8792964	0.883766206	-0.178263
TRAPPC11	1099.541774	971.7268706	0.88375621	-0.17828
SLC25A42	108.9635992	96.25987787	0.883413163	-0.17884
MRPL43	403.9357668	356.8254093	0.883371661	-0.178908
EIF4G2	9731.880245	8595.343233	0.883215064	-0.179163
HMGCLL1	38.52248457	34.02288787	0.883195574	-0.179195
THAP6	192.6124229	170.1144393	0.883195574	-0.179195
RPL32	3355.858727	2963.310551	0.883026013	-0.179472
ABITRAM	83.64882364	73.85456147	0.882912135	-0.179658
PRKCZ	386.3254881	341.0587052	0.882827346	-0.179797
SHROOM2	611.9571835	540.2170732	0.882769396	-0.179891

PEX1	1407.72165	595.5885841	0.423086896	-1.240974
TMED7	115.5674537	48.89160018	0.423056826	-1.241077
FOXJ3	5152.107151	2179.009726	0.422935638	-1.24149
H3P6	210.2227015	88.89381852	0.422855466	-1.241763
ZKSCAN1	2441.224879	1032.279468	0.422853083	-1.241772
ING3	257.5503254	108.8949277	0.42281029	-1.241918
F2R	352.2055732	148.897146	0.42275636	-1.242102
CCDC12	141.9828717	60.0033275	0.42260962	-1.242602
PHF3	4731.661748	1998.999744	0.422473087	-1.243069
LMNB1	155.1905807	65.55919115	0.422443107	-1.243171
SCAF11	6068.942283	2563.475491	0.422392465	-1.243344
CLEC2D	215.7259136	91.11616398	0.422370046	-1.243421
LYRM1	194.8137077	82.22678213	0.422079037	-1.244415
KLHL5	1342.783748	566.698093	0.422032285	-1.244575
NUAK2	134.2783748	56.6698093	0.422032285	-1.244575
GSTM4	221.2291257	93.33850944	0.421908775	-1.244997
ARHGAP26	1016.993593	428.9126743	0.4217457	-1.245555
SETD2	9229.987303	3892.438078	0.421716515	-1.245655
RBM8A	113.3661689	47.78042745	0.421469896	-1.246499
MYO6	5707.931571	2404.577791	0.421269555	-1.247184
SLCO2A1	472.1755966	198.8999189	0.42124142	-1.247281
ARHGEF9	810.0728184	341.1300286	0.421110326	-1.24773
MKLN1	1863.387611	784.4879484	0.421000947	-1.248105
FEM1B	1626.749491	684.4824026	0.420766938	-1.248907
NCS1	145.284799	61.11450023	0.420653094	-1.249297
RPS27L	250.9464709	105.5614095	0.420653094	-1.249297
NRG2	52.83083598	22.22345463	0.420653094	-1.249297
HHLA3	52.83083598	22.22345463	0.420653094	-1.249297
TPM4P2	52.83083598	22.22345463	0.420653094	-1.249297
PSRC1	26.41541799	11.11172731	0.420653094	-1.249297
NALF1	26.41541799	11.11172731	0.420653094	-1.249297
MSLN	13.207709	5.555863657	0.420653094	-1.249297
RPP14	13.207709	5.555863657	0.420653094	-1.249297
SNORA23	13.207709	5.555863657	0.420653094	-1.249297
MANSC4	13.207709	5.555863657	0.420653094	-1.249297
LINC01089	13.207709	5.555863657	0.420653094	-1.249297
ZNF584-DT	13.207709	5.555863657	0.420653094	-1.249297
DNAAF10	13.207709	5.555863657	0.420653094	-1.249297
ZSCAN16-AS	13.207709	5.555863657	0.420653094	-1.249297
ENSG000002	13.207709	5.555863657	0.420653094	-1.249297
RBM38	224.5310529	94.44968217	0.420653094	-1.249297
RBPJ	903.6274238	380.0210742	0.420550621	-1.249649
ZNF717	729.725922	306.6836739	0.420272413	-1.250603
GIMAP8	230.034265	96.67202764	0.420250555	-1.250678
ZBTB21	1164.479676	488.9160018	0.419857909	-1.252027
PRKAA1	1657.567479	695.5941299	0.419647549	-1.25275
TRPM8	1734.612448	727.8181391	0.419585447	-1.252963
LFNG	241.0406892	101.1167186	0.41950062	-1.253255
VPS54	1178.788028	494.4718655	0.419474794	-1.253344
FTCDNL1	58.33404806	24.44580009	0.419065724	-1.254752
STXBP5	2435.721667	1020.056567	0.418790283	-1.2557
OARD1	283.9657434	118.8954823	0.418696568	-1.256023
CCT6A	974.0685384	407.8003924	0.418656774	-1.25616
UTP3	334.5952946	140.0077642	0.418439131	-1.25691
ZNG1F	122.1713082	51.11394565	0.418379294	-1.257117
XPA	366.5139246	153.3418369	0.418379294	-1.257117
ORC2	764.9464793	320.0177467	0.418353121	-1.257207
SMARCE1	199.2162773	83.33795486	0.418329044	-1.25729
PHC3	6377.12216	2666.814555	0.418184643	-1.257788
ZNF292	4401.469023	1838.990871	0.417812976	-1.259071
TMEM35A	31.91863007	13.33407278	0.417752038	-1.259281
ELN-AS1	31.91863007	13.33407278	0.417752038	-1.259281
RAMACL	31.91863007	13.33407278	0.417752038	-1.259281
ENSG000002	31.91863007	13.33407278	0.417752038	-1.259281
FNBP4	159.5931504	66.67036389	0.417752038	-1.259281
FAIM2	95.75589022	40.00221833	0.417752038	-1.259281
RBM33	2393.897255	1000.055458	0.417752038	-1.259281
MTFR1	298.2740948	124.4513459	0.417238198	-1.261057
FAT1	13091.0409	5460.302802	0.417102264	-1.261527
TRAPPC2	151.8886534	63.33684569	0.416995241	-1.261897
TTC3	10950.2914	4565.808753	0.41695774	-1.262027
CCDC186	3952.406917	1647.869161	0.416928013	-1.26213
DSCC1	88.0513933	36.66870014	0.416446563	-1.263797
UFL1	709.9143585	295.5719466	0.416348737	-1.264136
MAP2K5	488.6852328	203.3446099	0.416105493	-1.264979
TRAF6	363.2119974	151.1194915	0.416064151	-1.265122
KMT2C	19504.48426	8112.672112	0.415938817	-1.265557
CACNA2D1	836.4882364	347.7970649	0.415782374	-1.266099
IL7	37.42184215	15.55641824	0.415704234	-1.266371
IFRD1	18.71092108	7.77820912	0.415704234	-1.266371
PPIAP29	18.71092108	7.77820912	0.415704234	-1.266371
LSM5	93.55460539	38.8910456	0.415704234	-1.266371
FAM76B	491.9871601	204.4557826	0.415571379	-1.266832
RBMS1	858.5010847	356.6864468	0.415475825	-1.267164
FRA10AC1	248.7451861	103.339064	0.415441463	-1.267283
CSRP1	1460.552486	606.7003114	0.415390968	-1.267458
OSBP	2966.231312	1231.179386	0.415065198	-1.26859
GCNA	123.2719506	51.11394565	0.414643764	-1.270056
PPARGC1A	246.5439013	102.2278913	0.414643764	-1.270056
ACAT1	522.8051477	216.6786826	0.414453996	-1.270716
PPP3R1	104.5610295	43.33573653	0.414453996	-1.270716
DEK	2320.154214	961.1644127	0.414267469	-1.271366
POU5F2	42.92505424	17.7787637	0.414181508	-1.271665
GCNT1	544.8179961	225.5680645	0.414024621	-1.272212
FAM227A	330.1927249	136.674246	0.413922645	-1.272567
ITPR1	2365.280553	978.9431764	0.413880364	-1.272714
PCNP	488.6852328	202.2334371	0.413831693	-1.272884
TAF12	244.3426164	101.1167186	0.413831693	-1.272884
DAB2	2108.83087	872.2705942	0.413627573	-1.273596
SLCO3A1	182.7066411	75.55974574	0.413557741	-1.273839
BLNK	438.0556817	181.1211552	0.413466056	-1.274159
IL13RA1	921.9372786	900.0499125	1.024317947	0.034664
CSNK1A1	1552.605444	1516.750778	1.023639128	0.033707
TMEM223	193.3495823	188.8993643	1.023558671	0.033594
GFRA2	30.70358173	30.00166375	1.023395969	0.033364
PKD1P2	82.98265334	81.11560939	1.023017073	0.03283
WDR5B	304.5463377	297.794292	1.022673523	0.032346
SF3A1	1520.242209	1486.749115	1.022527738	0.03214
PUM1	4263.648728	4171.342434	1.022128678	0.031577
DPH6	129.4529392	126.6736914	1.021940213	0.031311
DNASE2B	21.57548987	21.1122819	1.021940213	0.031311
ESD	786.6755536	770.0427029	1.021599907	0.03083
ANO7	120.3248473	117.7843095	1.021569408	0.030787
CPNE3	2715.192417	2657.925174	1.021545845	0.030754
CDS2	931.895197	912.2728125	1.021509338	0.030702
IWS1	1077.11484	1054.502922	1.021443201	0.030609
RP9	132.7722453	130.0072096	1.021268326	0.030362
ATG13	1238.931014	1213.400623	1.021040365	0.03004
SUSD6	575.0697876	563.3645748	1.020777332	0.029668
ZNF317	553.4942978	542.2522929	1.020732056	0.029604
NPIPB6	68.04577574	66.67036389	1.020630034	0.02946
TNN	34.02288787	33.33518194	1.020630034	0.02946
CACNB3	216.5847252	212.2339917	1.020499702	0.029276
TNRC6A	139.4108576	136.674246	1.020022877	0.028602
FAM177A1	949.3215542	931.1627489	1.019501215	0.027863
CEP44	214.0952456	210.0116462	1.019444633	0.027783
FRMD4B	369.2728073	362.2423104	1.019408271	0.027732
RANBP3	1056.369177	1036.724158	1.018949128	0.027082
YLPM1	5250.312477	5153.619128	1.018762222	0.026817
ZNF274	590.8364918	580.0321658	1.018627115	0.026626
COL1A2	8786.203335	8626.033914	1.018568142	0.026542
ZNF543	419.8922259	412.2450834	1.018549991	0.026517
PLAU	49.789592	48.89160018	1.018366996	0.026258
TRMU	161.816174	158.8977006	1.018366996	0.026258
PSEN2	24.894796	24.44580009	1.018366996	0.026258
HACD4	24.894796	24.44580009	1.018366996	0.026258
KANK4	12.447398	12.22290005	1.018366996	0.026258
NMBR	12.447398	12.22290005	1.018366996	0.026258
DNASE1L2	12.447398	12.22290005	1.018366996	0.026258
WDR35-DT	12.447398	12.22290005	1.018366996	0.026258
TTBK1	37.342194	36.66870014	1.018366996	0.026258
ZNF518B	1674.589944	1644.535643	1.018275251	0.026128
MTPN	678.7981043	666.7036389	1.018140692	0.025937
ADSS2	955.9601664	938.9409581	1.018125962	0.025916
TNRC6C	1258.017025	1235.624077	1.018122783	0.025912
CMTM4	264.7146641	260.0144192	1.018076863	0.025846
ZNF787	177.5828781	174.4541188	1.017934568	0.025645
RPL8	8533.936069	8387.131777	1.017503516	0.025034
SRP68	936.0443296	920.0510216	1.017383066	0.024863
ZNF674	131.1125923	128.8960368	1.017196459	0.024598
ZNF654	462.2133791	454.4696472	1.017039052	0.024375
CHMP7	265.5444907	261.1255919	1.016922504	0.02421
HARBI1	93.77039827	92.22733671	1.016731065	0.023938
RPL27	1009.898891	993.3884219	1.016620356	0.023781
TEX2	1660.482893	1633.423915	1.016565803	0.023704
ZSWIM3	81.32300027	80.00443666	1.016481131	0.023583
EXT2	1727.698842	1700.094279	1.016237078	0.023237
AIMP2	250.6076131	246.6803464	1.015920469	0.022787
MELTF	658.052441	647.8137024	1.015805066	0.022624
KCNMA1	2469.563763	2431.245936	1.015760572	0.02256
MAMDC2	28.21410213	27.77931829	1.015651351	0.022405
TBC1D32	382.5500319	376.687556	1.015563232	0.02228
PALS2	1477.091229	1454.525105	1.015514427	0.022211
PNMA8A	341.8885317	336.6853376	1.015454175	0.022125
EAF1	429.8501443	423.3568107	1.015337733	0.02196
NTHL1	116.1757147	114.4507913	1.01507131	0.021581
TASOR	1777.488434	1751.208225	1.015006902	0.02149
MTURN	248.1181335	244.4580009	1.014972439	0.021441
MSL3	638.1366042	628.923766	1.014648577	0.02098
PIAS1	1226.483616	1208.955932	1.0144982	0.020766
FTO	726.9280432	716.7064118	1.014261951	0.02043
CDH5	198.3285415	195.5664007	1.0141238	0.020234
EGR1	2138.462976	2109.005844	1.013967307	0.020011
UEVLD	280.4813683	276.6820101	1.013731858	0.019676
ALDH7A1	765.9298903	755.5974574	1.01367452	0.019594
SPACA9	126.1336331	124.4513459	1.013517629	0.019371
DUSP5	78.83352067	77.7820912	1.013517629	0.019371
NDUFAF2	78.83352067	77.7820912	1.013517629	0.019371
NOVA2	47.3001124	46.66925472	1.013517629	0.019371
HNRNPRP1	31.53340827	31.11283648	1.013517629	0.019371
NFAM1	31.53340827	31.11283648	1.013517629	0.019371
NAPRT	15.76670413	15.55641824	1.013517629	0.019371
ZCCHC18	15.76670413	15.55641824	1.013517629	0.019371
IRX2	15.76670413	15.55641824	1.013517629	0.019371
SETSIP	15.76670413	15.55641824	1.013517629	0.019371
SPCS3-AS1	15.76670413	15.55641824	1.013517629	0.019371
ZCCHC2	586.6873591	578.9209931	1.013415243	0.019225
GLT8D1	416.5729197	411.1339106	1.013229289	0.018961
COPG2	738.5456147	728.9293118	1.013192367	0.018908
RTCB	707.0122064	697.8164753	1.013177865	0.018887
NRP2	612.4119816	604.4779659	1.013125401	0.018813
ST14	1338.510198	1321.184378	1.013113855	0.018796
R3HCC1	145.2196433	143.3412824	1.013104117	0.018782
SH2B3	145.2196433	143.3412824	1.013104117	0.018782
CCND3	195.8390619	193.3440553	1.012904491	0.018498
RPL28	1298.678525	1282.293332	1.012778038	0.018318
NAA30	363.4640216	358.9087923	1.012691886	0.018195
EYA3	1141.011483	1126.72915	1.012675925	0.018173
OFD1	777.5474618	767.8203574	1.012668464	0.018162
TINAGL1	66.38612267	65.55919115	1.01261351	0.018084
FBXO21	1204.908126	1190.065995	1.012471687	0.017882
SMIM26	50.61941854	50.00277291	1.012332228	0.017683
SH3BP4	1488.068547	1313.615402	0.882765384	-0.179898
KDM6A	1855.683114	1638.077577	0.882735616	-0.179947
BCDIN3D	96.85653263	85.47213294	0.88246121	-0.180395
NFATC3	1576.11994	1390.78927	0.882413346	-0.180473
ADCY5	767.1477642	676.3086247	0.881588471	-0.181823
STT3A	2412.608177	2126.845405	0.881554421	-0.181878
ZNF587	990.5781747	872.9775131	0.881280787	-0.182326
SLC10A3	247.6445437	218.2443783	0.881280787	-0.182326
MAGI2	307.0792341	270.5234499	0.880956508	-0.182857
AGTRAP	104.5610295	92.1107452	0.880928063	-0.182904
USF2	713.2162858	628.1786858	0.880768847	-0.183165
ZCCHC14	779.2548307	686.2665431	0.880670245	-0.183326
EIF3A	8009.374863	7051.865881	0.880451471	-0.183685
C19orf53	177.203429	156.0073883	0.880385832	-0.183792
TUB	99.05781747	87.131786	0.879605348	-0.185072
DVL1	283.9657434	249.7777865	0.879605348	-0.185072
ATP6V1F	178.3040714	156.8372148	0.879605348	-0.185072
IL17RE	66.03854498	58.08785734	0.879605348	-0.185072
YPEL5	587.7430503	516.9819303	0.879605348	-0.185072
ENSG000002	52.83083598	46.47028587	0.879605348	-0.185072
PKD2L2	6.603854498	5.808785734	0.879605348	-0.185072
SCG3	6.603854498	5.808785734	0.879605348	-0.185072
PYCR3	6.603854498	5.808785734	0.879605348	-0.185072
GSG1	6.603854498	5.808785734	0.879605348	-0.185072
RPL13AP25	6.603854498	5.808785734	0.879605348	-0.185072
SNTG1	6.603854498	5.808785734	0.879605348	-0.185072
CLEC3B	6.603854498	5.808785734	0.879605348	-0.185072
HRG-AS1	6.603854498	5.808785734	0.879605348	-0.185072
LINC00862	6.603854498	5.808785734	0.879605348	-0.185072
ENSG000002	6.603854498	5.808785734	0.879605348	-0.185072
CYP51A1P2	6.603854498	5.808785734	0.879605348	-0.185072
PINX1	6.603854498	5.808785734	0.879605348	-0.185072
ENSG000002	6.603854498	5.808785734	0.879605348	-0.185072
ZNF470-DT	6.603854498	5.808785734	0.879605348	-0.185072
ENSG000002	6.603854498	5.808785734	0.879605348	-0.185072
LINC01144	6.603854498	5.808785734	0.879605348	-0.185072
ENSG000002	6.603854498	5.808785734	0.879605348	-0.185072
ENSG000002	6.603854498	5.808785734	0.879605348	-0.185072
RSPH10B2	26.41541799	23.23514293	0.879605348	-0.185072
WDR87	26.41541799	23.23514293	0.879605348	-0.185072
B3GNTL1	26.41541799	23.23514293	0.879605348	-0.185072
MYO1A	13.207709	11.61757147	0.879605348	-0.185072
AGXT	13.207709	11.61757147	0.879605348	-0.185072
TMEM9B-AS	13.207709	11.61757147	0.879605348	-0.185072
ENSG000002	13.207709	11.61757147	0.879605348	-0.185072
RASSF7	19.81156349	17.4263572	0.879605348	-0.185072
TNFSF8	19.81156349	17.4263572	0.879605348	-0.185072
ABHD17A	184.9079259	162.6460005	0.879605348	-0.185072
CMTM1	46.22698148	40.66150013	0.879605348	-0.185072
TEX14	46.22698148	40.66150013	0.879605348	-0.185072
RPLP0	3056.48399	2687.808142	0.8793791	-0.185443
CHD3	6137.182113	5395.53212	0.879154638	-0.185811
SOS2	2737.297689	2404.837294	0.878544304	-0.186813
RIOX1	233.3361923	204.9671537	0.878419896	-0.187017
SPSB3	213.5246288	187.5407965	0.878309906	-0.187198
SYS1	106.7623144	93.77039827	0.878309906	-0.187198
PPIP5K1	206.9207743	181.7320108	0.878268562	-0.187266
CD99L2	254.2483982	223.2233375	0.877973427	-0.187751
ZNF202	154.0899383	135.2617249	0.877810235	-0.188019
ATPAF2	154.0899383	135.2617249	0.877810235	-0.188019
RASSF8	596.5481896	523.6205426	0.877750619	-0.188117
FPGS	294.9721676	258.9058784	0.877729857	-0.188151
KLHL36	416.0428334	365.1236747	0.877610778	-0.188347
PHKA1	469.9743118	412.4237871	0.877545382	-0.188454
ZDHHC24	67.13918739	58.91768387	0.877545382	-0.188454
ZFAND3	799.0663942	701.2034207	0.877528358	-0.188482
CNP	847.4946605	743.5245739	0.877320659	-0.188824
RPL6P19	121.0706658	106.2177963	0.877320659	-0.188824
DNAL4	60.5353329	53.10889814	0.877320659	-0.188824
CASZ1	1788.543926	1568.372148	0.87689887	-0.189518
DZIP3	762.7451945	668.8401859	0.87688548	-0.18954
FAM50B	101.2591023	88.79143907	0.876873654	-0.189559
GNPTAB	3534.162799	3097.742449	0.876513796	-0.190151
RAPGEF6	81.44753881	71.36508187	0.876209188	-0.190653
ABL1	1096.239847	960.1092991	0.875820471	-0.191293
CHMP2A	653.7815953	572.580308	0.875797533	-0.191331
IKBKB	824.3811698	721.949084	0.875746694	-0.191414
FAH	143.0835141	125.3038065	0.875738951	-0.191427
DOCK1	3606.805198	3158.319786	0.875655771	-0.191564
CSNK1A1	1773.134933	1552.605444	0.875627351	-0.191611
ADAMTS2	518.4025781	453.9151138	0.875603504	-0.19165
GPLD1	68.23982981	59.7475104	0.875551867	-0.191735
CADPS2	1229.417579	1076.285014	0.875443	-0.191915
RPAP3	1168.882246	1023.176116	0.875345758	-0.192075
ZFYVE26	1340.582463	1173.374718	0.875272317	-0.192196
C4orf3	369.8158519	323.632348	0.875117566	-0.192451
ROCK1	2466.539655	2158.378813	0.875063496	-0.19254
MED16	494.1884449	432.3396239	0.874847699	-0.192896
MRC1	1579.421867	1381.661178	0.874789191	-0.192993
NUDT19	137.580302	120.3248473	0.874579032	-0.193339
PPP1R35	55.03212081	48.12993894	0.874579032	-0.193339
ENSG000002	55.03212081	48.12993894	0.874579032	-0.193339
SEPTIN7P6	27.51606041	24.06496947	0.874579032	-0.193339
CEP83	378.6209912	331.1007868	0.874491363	-0.193484
DDX27	759.4432672	663.8612267	0.874141961	-0.194061
IDH3A	780.3554732	682.1174104	0.874111138	-0.194111
RFX3	1272.342633	1111.967555	0.873952916	-0.194373
THAP11	96.85653263	84.6423064	0.873893625	-0.19447
ANKDD1A	48.42826632	42.3211532	0.873893625	-0.19447
CRKL	436.9550393	381.7202053	0.873591493	-0.194969
CNPPD1	436.9550393	381.7202053	0.873591493	-0.194969

ADAMTSL2	255.3490406	105.5614095	0.413400455	-1.274388
EID3	48.42826632	20.00110917	0.413004856	-1.275769
TACR1	24.21413316	10.00055458	0.413004856	-1.275769
MZT1	24.21413316	10.00055458	0.413004856	-1.275769
PIGBOS1	24.21413316	10.00055458	0.413004856	-1.275769
H4C12	24.21413316	10.00055458	0.413004856	-1.275769
MGP	5303.995804	2189.010281	0.412709655	-1.276801
FYB2	228.9336226	94.44968217	0.412563612	-1.277312
CHD9	6164.698174	2539.029691	0.411866018	-1.279753
SPRTN	172.8008594	71.11505481	0.411543409	-1.280883
PDE1C	29.71734524	12.22290005	0.411305248	-1.281719
DHX58	267.4561072	110.0061004	0.411305248	-1.281719
RPS6KB1	865.1049392	355.5752741	0.411019817	-1.28272
LRRFIP2	1455.049274	597.8109295	0.410852704	-1.283307
AADAT	254.2483982	104.4502368	0.410819645	-1.283423
PRRC1	1485.867262	610.0338296	0.41055742	-1.284344
PDGFRA	506.2955115	207.7893008	0.410411106	-1.284858
CD37	205.8201318	84.44912759	0.410305478	-1.28523
H3C11	70.44111464	28.89049102	0.410136767	-1.285823
ABCB5	35.22055732	14.44524551	0.410136767	-1.285823
CFAP45	35.22055732	14.44524551	0.410136767	-1.285823
LINC02035	35.22055732	14.44524551	0.410136767	-1.285823
ENSG000002	35.22055732	14.44524551	0.410136767	-1.285823
TXNL1	991.6788171	406.6892197	0.410101751	-1.285946
LRRFIP1	2658.051435	1090.06045	0.410097576	-1.285961
GORASP2	3473.627466	1423.412269	0.409776893	-1.287089
PXMP4	263.0535375	107.7837549	0.409740755	-1.287217
ZBTB24	599.8501169	245.5691736	0.409384222	-1.288473
RADX	40.7237694	16.66759097	0.409284092	-1.288826
RCSD1	122.1713082	50.00277291	0.409284092	-1.288826
SEC11C	488.6852328	200.0110917	0.409284092	-1.288826
CCDC32	127.6745203	52.22511838	0.409048871	-1.289655
CDH3	643.8758135	263.3479374	0.409004239	-1.289812
GTF2IRD2B	394.029985	161.1200461	0.408903008	-1.290169
ATXN10	2383.991474	974.4984855	0.408767605	-1.290647
ERO1B	1185.391882	484.4713109	0.408701391	-1.290881
CTSS	959.760187	392.2439742	0.408689566	-1.290923
RNF207	184.9079259	75.55974574	0.408634434	-1.291117
TCAIM	345.6017187	141.1189369	0.408328227	-1.292199
ASAP1	2722.989338	1111.172731	0.408070908	-1.293108
ACOT13	166.1970049	67.78153662	0.407838497	-1.29393
SRPK2	1207.404731	492.24952	0.407692224	-1.294448
MGST1	1284.4497	523.3623565	0.407460375	-1.295268
SLC12A1	62.73661773	25.55697282	0.407369312	-1.295591
BUB1	130.9764475	53.33629111	0.407220474	-1.296118
VRK2	403.9357668	164.4535643	0.407128008	-1.296446
FSD1L	204.7194894	83.33795486	0.40708364	-1.296603
NACAD	68.23982981	27.77931829	0.40708364	-1.296603
PHAX	294.9721676	120.006655	0.406840605	-1.297464
CD58	237.7387619	96.67202764	0.406631324	-1.298207
ERO1A	407.237694	165.564737	0.406555531	-1.298476
EXOG	180.5053563	73.33740027	0.40628933	-1.299421
METTL2B	298.2740948	121.1178277	0.406062175	-1.300227
PRNCR1	112.2655265	45.55808199	0.405806514	-1.301136
CLEC7A	230.034265	93.33850944	0.405759157	-1.301304
RIOK2	347.8030036	141.1189369	0.405743871	-1.301359
ZNF577	1092.937919	443.3579198	0.405657002	-1.301668
CD163L1	397.3319123	161.1200461	0.405504922	-1.302209
WIPF3	301.5760221	122.2290005	0.405300792	-1.302935
SEC63	2523.773061	1022.278913	0.405059761	-1.303793
TSHZ1	823.2805274	333.3518194	0.404906722	-1.304339
PTGS2	411.6402637	166.6759097	0.404906722	-1.304339
TCEA1P2	211.3233439	85.56030032	0.404878603	-1.304439
COX16	16.50963624	6.667036389	0.40382697	-1.308191
CDK15	16.50963624	6.667036389	0.40382697	-1.308191
INKA1	16.50963624	6.667036389	0.40382697	-1.308191
SSBP3P1	16.50963624	6.667036389	0.40382697	-1.308191
ASIC5	16.50963624	6.667036389	0.40382697	-1.308191
ENSG000002	16.50963624	6.667036389	0.40382697	-1.308191
ENSG000002	16.50963624	6.667036389	0.40382697	-1.308191
ENSG000002	16.50963624	6.667036389	0.40382697	-1.308191
MMAA	209.1220591	84.44912759	0.40382697	-1.308191
PNCK	38.52248457	15.55641824	0.40382697	-1.308191
INMT	38.52248457	15.55641824	0.40382697	-1.308191
RPL7P23	38.52248457	15.55641824	0.40382697	-1.308191
TNIP3	27.51606041	11.11172731	0.40382697	-1.308191
RIBC2	27.51606041	11.11172731	0.40382697	-1.308191
WDR64	27.51606041	11.11172731	0.40382697	-1.308191
NT5M	27.51606041	11.11172731	0.40382697	-1.308191
ENSG000002	27.51606041	11.11172731	0.40382697	-1.308191
GPR68	44.02569665	17.7787637	0.40382697	-1.308191
EDA2R	44.02569665	17.7787637	0.40382697	-1.308191
SRARP	44.02569665	17.7787637	0.40382697	-1.308191
TMX2P1	44.02569665	17.7787637	0.40382697	-1.308191
ZNF790-AS1	44.02569665	17.7787637	0.40382697	-1.308191
RIBC1	22.01284833	8.889381852	0.40382697	-1.308191
KRT2	22.01284833	8.889381852	0.40382697	-1.308191
CLEC5A	22.01284833	8.889381852	0.40382697	-1.308191
TPTE2	11.00642416	4.444690926	0.40382697	-1.308191
FNDC7	11.00642416	4.444690926	0.40382697	-1.308191
KRTCAP2	11.00642416	4.444690926	0.40382697	-1.308191
INCA1	11.00642416	4.444690926	0.40382697	-1.308191
TRAJ46	11.00642416	4.444690926	0.40382697	-1.308191
HAUS3	11.00642416	4.444690926	0.40382697	-1.308191
SAP30L-AS1	11.00642416	4.444690926	0.40382697	-1.308191
NTAN1P2	11.00642416	4.444690926	0.40382697	-1.308191
USP32P4	11.00642416	4.444690926	0.40382697	-1.308191
TMCC1-DT	11.00642416	4.444690926	0.40382697	-1.308191
OTUB2	5.503212081	2.222345463	0.40382697	-1.308191
APOBEC1	5.503212081	2.222345463	0.40382697	-1.308191
MRAP2	5.503212081	2.222345463	0.40382697	-1.308191
GSK3A	541.0468998	534.4740838	1.012297726	0.017634
PPP1R13B	1143.500963	1130.062668	1.011891637	0.017055
HSD3B7	34.8527144	34.44635467	1.011796886	0.01692
PIK3CA	1486.219321	1468.970351	1.011742218	0.016842
POLG	370.9324604	366.6870014	1.011577883	0.016607
DOP1B	1774.998955	1755.652916	1.011019285	0.015811
PPP2R3A	1036.45334	1025.612431	1.010570181	0.01517
YTHDF1	1094.541198	1083.393413	1.010289692	0.014769
MCAT	98.74935747	97.78320037	1.009880604	0.014185
CLK1	1204.908126	1193.399514	1.009643554	0.013846
GINM1	1316.934708	1304.516787	1.009519174	0.013668
KANSL1L	1222.334484	1211.178277	1.009211036	0.013228
FAM199X	603.2838898	597.8109295	1.009155002	0.013148
LRRC45	236.500562	234.4574463	1.008714228	0.012518
HABP4	265.5444907	263.3479374	1.008340879	0.011983
TNNC2	22.4053164	22.22345463	1.008183326	0.011758
ALS2	1872.918486	1857.880807	1.008093995	0.01163
MAP2K5	204.9671537	203.3446099	1.007979282	0.011466
NTN1	92.94057174	92.22733671	1.007733445	0.011114
UXS1	307.8656439	305.5725011	1.007504415	0.010786
METTL17	481.2993894	477.8042745	1.007314951	0.010515
PPP1R35	48.12993894	47.78042745	1.007314951	0.010515
NSFL1C	831.4861864	825.6013395	1.007127952	0.010247
YPEL5	516.9819303	513.3618019	1.007051807	0.010138
CALM3	1745.1252	1733.429461	1.006747167	0.009701
LIPT2	25.72462253	25.55697282	1.006559842	0.009433
FTH1P8	25.72462253	25.55697282	1.006559842	0.009433
EXOC1	968.4075644	962.2755854	1.006372373	0.009164
PCF11	1529.370301	1520.084297	1.006108875	0.008786
RAB36	80.49317374	80.00443666	1.006108875	0.008786
BIN2	80.49317374	80.00443666	1.006108875	0.008786
NUP210L	54.7685512	54.44746384	1.005897196	0.008483
PHKA1	412.4237871	410.0227379	1.005855893	0.008424
FAM76A	138.5810311	137.7854187	1.005774286	0.008307
KIF3B	918.6179724	913.3839852	1.005730325	0.008244
FAM166B	29.04392867	28.89049102	1.005311009	0.007642
CTDSP2	293.7585928	292.2384284	1.005201795	0.007485
ZDHHC17	1682.058383	1673.426134	1.005158429	0.007423
VCPKMT	90.45109214	90.00499125	1.004956402	0.007133
PHETA1	61.40716347	61.11450023	1.004788769	0.006892
COPRS	216.5847252	215.5675099	1.004718778	0.006792
RPL35	1186.651943	1181.176614	1.004635487	0.006672
ITGB6	32.3632348	32.22400921	1.004320555	0.00622
CCR1	32.3632348	32.22400921	1.004320555	0.00622
RNF14	326.9516541	325.5736103	1.004232664	0.006094
STAT4	35.68254093	35.55752741	1.003515811	0.005063
RPL4	3815.5424	3802.433087	1.003447612	0.004965
RUNDC1	373.42194	372.242865	1.003167488	0.004562
ARL6	149.368776	148.897146	1.003167488	0.004562
NDRG1	3218.067296	3207.955676	1.003152045	0.00454
KLHDC3	1267.145116	1263.403396	1.00296162	0.004266
RHOA	347.6973175	346.6858922	1.002917411	0.004203
RWDD3	39.00184707	38.8910456	1.002849023	0.004104
RAB33B	273.0129295	272.2373192	1.002849023	0.004104
FBXO8	357.6552359	356.6864468	1.00271608	0.003913
ENTPD7	159.3266944	158.8977006	1.002699811	0.00389
MYO9A	1843.874557	1838.990871	1.002655634	0.003826
ZRSR2	201.6478476	201.1222644	1.002613252	0.003765
GRB10	484.6186955	483.3601382	1.002603767	0.003752
ALKBH4	42.3211532	42.22456379	1.002287517	0.003296
CARD19	172.6039189	172.2317734	1.002160725	0.003114
LRRC8C	267.2041437	266.6814555	1.001959972	0.002825
CCDC148	133.6020719	133.3407278	1.001959972	0.002825
ZNF30	179.2425312	178.8988098	1.001921318	0.002769
MIPEP	234.8409089	234.4574463	1.001635532	0.002358
EFTUD2	1325.232974	1323.406723	1.001379962	0.001989
EP300	4100.172901	4094.671515	1.001343548	0.001937
BLTP1	11723.78926	11712.87176	1.000932094	0.001344
FAM50A	330.2709603	330.0183012	1.000765591	0.001104
ENSG000002	222.3935109	222.2345463	1.000715301	0.001032
ATP5ME	422.3817055	422.2456379	1.000322247	4.65E-04
POLR2G	258.9058784	258.9032464	1.000010166	1.47E-05
PHAF1	196.6688884	196.6775735	0.999955841	-6.37E-05
RALGPS1	984.1742686	984.4990401	0.999670115	-4.76E-04
ZBTB37	653.9033083	654.4807388	0.999117727	-0.001273
ALK	82.1528268	82.22678213	0.999100593	-0.001298
EPB41L5	1052.220044	1053.391749	0.998887683	-0.001606
MYO5A	1141.84131	1143.396741	0.99863964	-0.001964
CLASP2	2892.775295	2896.827311	0.998601223	-0.002019
RAB39B	125.3038065	125.5625187	0.997939575	-0.002976
PDLIM1	399.1465625	400.0221833	0.997811069	-0.003161
COPB2	4245.392545	4255.791561	0.997556502	-0.00353
ELN	168.4547863	168.8982552	0.997374343	-0.003793
ZNF710	175.0933985	175.5652916	0.997312151	-0.003883
CCNH	234.8409089	235.5686191	0.996910836	-0.004464
EMD	1197.439688	1201.177723	0.996888025	-0.004497
EMP1	410.764134	412.2450834	0.9964076	-0.005192
OXA1L	815.7194823	818.9343031	0.996074385	-0.005675
HUWE1	22163.00705	22255.67864	0.995836048	-0.00602
MRPS31	295.4182459	296.6831193	0.995736618	-0.006164
TMEM183BI	49.789592	50.00277291	0.995736618	-0.006164
ZNF784	36.51236747	36.66870014	0.995736618	-0.006164
PIAS4	252.2672661	253.3473828	0.995736618	-0.006164
ZNF593	63.06681654	63.33684569	0.995736618	-0.006164
ITGAE	179.2425312	180.0099825	0.995736618	-0.006164
SLC24A4	39.8316736	40.00221833	0.995736618	-0.006164
ENSG000002	19.9158368	20.00110917	0.995736618	-0.006164
F2RL3	9.9579184	10.00055458	0.995736618	-0.006164
TNFAIP8L3	9.9579184	10.00055458	0.995736618	-0.006164
MSANTD1	9.9579184	10.00055458	0.995736618	-0.006164
NEPRO-AS1	9.9579184	10.00055458	0.995736618	-0.006164
PGLS	243.241974	212.4355925	0.873350882	-0.195367
USE1	132.07709	115.3458881	0.873322453	-0.195414
CCSER1	682.3982981	595.815451	0.873119779	-0.195749
NFIB	4049.26345	3535.061032	0.873013346	-0.195924
ALOX12B	20.91220591	18.25618373	0.872991774	-0.19596
VEZF1P1	20.91220591	18.25618373	0.872991774	-0.19596
RPL14P3	20.91220591	18.25618373	0.872991774	-0.19596
YJEFN3	62.73661773	54.7685512	0.872991774	-0.19596
MPDZ	2971.734524	2594.037743	0.872903593	-0.196106
KIF13B	1814.959344	1584.138852	0.872823326	-0.196238
RPL36	1096.239847	956.789993	0.87279257	-0.196289
MAP3K11	510.6980812	445.6168484	0.872564172	-0.196667
ZNF337	1218.411155	1063.007789	0.872454085	-0.196849
ATM	2924.4069	2550.886764	0.872274909	-0.197145
LINC00665	56.13276323	48.95976547	0.872213706	-0.197246
ZNF334	1519.987177	1325.232974	0.871871154	-0.197813
ST3GAL2	140.8822293	122.8143269	0.871751729	-0.198011
BTBD19	35.22055732	30.70358173	0.871751729	-0.198011
TRIM35	119.9700234	104.5581432	0.871535574	-0.198369
DEAF1	254.2483982	221.5636844	0.871445744	-0.198517
ARMC10	134.2783748	117.0055412	0.871365485	-0.19865
ORC2	764.9464793	666.3507063	0.871107619	-0.199077
SKIC8	439.1563241	382.5500319	0.871102181	-0.199086
TAF7	1120.45398	975.8760032	0.870964824	-0.199314
MLXIPL	63.83726015	55.59837774	0.870939285	-0.199356
FAM43A	78.14561156	68.04577574	0.8707562	-0.199659
PAN3	881.6145755	767.5895434	0.8706634	-0.199813
SLC7A7	92.45396297	80.49317374	0.870629783	-0.199869
ERCC6L2	1282.248415	1116.116687	0.870437175	-0.200188
RALGAPA1	3470.325539	3020.568581	0.870399203	-0.200251
IFT74	413.8415485	360.1447155	0.870247844	-0.200502
WDR5B	350.0042884	304.5463377	0.870121732	-0.200711
USP30	392.9293426	341.8885317	0.870101809	-0.200744
ENSG000002	28.61670282	24.894796	0.869939355	-0.201013
KANK4	14.30835141	12.447398	0.869939355	-0.201013
MIR4500HG	14.30835141	12.447398	0.869939355	-0.201013
GPBP1	872.8094361	759.291278	0.869939355	-0.201013
DOLK	629.5674621	547.685512	0.869939355	-0.201013
ITPRIP	71.54175706	62.23699	0.869939355	-0.201013
GPR21	165.0963624	143.5599903	0.869552715	-0.201655
RCC1L	315.8843735	274.6725825	0.869535202	-0.201684
ZBED3	136.4796596	118.6651943	0.869471646	-0.201789
ZSWIM3	93.55460539	81.32300027	0.86925705	-0.202145
WDR97	79.24625397	68.87560227	0.869133856	-0.20235
SPRYD4	302.6766645	263.0550111	0.869095778	-0.202413
DNPEP	471.0749542	409.1044809	0.868448805	-0.203487
ATG5	232.2355498	201.6478476	0.868290181	-0.203751
PINK1	472.1755966	409.9343075	0.868181902	-0.203931
ENSG000002	36.32119974	31.53340827	0.868181902	-0.203931
NSA2	530.5096447	460.553726	0.868134502	-0.20401
CDK14	502.9935842	436.4887566	0.867781956	-0.204596
TUBB6	482.0813783	418.2325728	0.86755596	-0.204971
YIF1A	241.0406892	209.1162864	0.86755596	-0.204971
CEP170	102.3597447	88.79143907	0.867444905	-0.205156
SLC35B3	431.4518272	374.2517665	0.867424224	-0.20519
IRAK1	1149.070683	996.6216666	0.867328426	-0.20535
DGCR8	358.8094277	311.18495	0.86727083	-0.205446
MAT2A	1450.646705	1258.017025	0.867211169	-0.205545
ADPRH	44.02569665	38.17202053	0.867039557	-0.20583
NAT8L	22.01284833	19.08601027	0.867039557	-0.20583
KIF9-AS1	22.01284833	19.08601027	0.867039557	-0.20583
SOCS7	22.01284833	19.08601027	0.867039557	-0.20583
APLP2	4974.903722	4313.43832	0.867039557	-0.20583
OGFOD3	381.9229185	331.1007868	0.866930919	-0.206011
SCAMP4	294.9721676	255.5865723	0.86647691	-0.206767
PFKFB3	302.6766645	262.2251845	0.866354151	-0.206971
DGKQ	51.73019357	44.8106328	0.866237486	-0.207165
CCDC144A	51.73019357	44.8106328	0.866237486	-0.207165
PRPF40B	236.6381195	204.9671537	0.866162874	-0.20729
TOX4	1543.100668	1336.020719	0.865802696	-0.20789
PHF7	59.43469048	51.44924507	0.865643358	-0.208155
NOP14-AS1	29.71734524	25.72462253	0.865643358	-0.208155
CEP68	223.4304105	193.3495823	0.865368245	-0.208614
LINC00294	37.42184215	32.3632348	0.864822065	-0.209525
SLAIN2	1912.91652	1653.844281	0.864566887	-0.209951
TK2	90.25267814	78.00369414	0.864281213	-0.210427
CHP1	458.9678876	396.6570829	0.864237115	-0.210501
CSNK1G3	602.0514017	520.3012364	0.864213977	-0.21054
INTS6L	233.3361923	201.6478476	0.864194473	-0.210572
TOMM7	536.0128567	463.0432056	0.863865857	-0.211121
HIBCH	643.8758135	555.9837774	0.86349536	-0.21174
PKD1	2122.038579	1832.256986	0.863441883	-0.211829
TDRD3	463.3704573	399.9763891	0.863189232	-0.212251
WNT4	91.35332055	78.83352067	0.86295189	-0.212648
COG1	708.8137161	611.5821551	0.862824944	-0.21286
SCCPDH	1189.794452	1026.495422	0.862750217	-0.212985
TANGO6	335.695937	289.6094601	0.862713629	-0.213046
S1PR2	252.0471133	217.4145517	0.862594889	-0.213245
SOCS6	290.5695979	250.6076131	0.862470179	-0.213454
SUPT20H	1406.621008	1212.376565	0.861907051	-0.214396
GLYR1	1207.404731	1040.602473	0.861850584	-0.21449
DYNC2H1	3119.220608	2687.808142	0.861692224	-0.214755
DDX52	161.7944352	139.4108576	0.861654218	-0.214819
KLF3P1	23.11349074	19.9158368	0.861654218	-0.214819
ZNF8-DT	23.11349074	19.9158368	0.861654218	-0.214819
PTPRD	231.1349074	199.158368	0.861654218	-0.214819
NOD1	215.7259136	185.8811435	0.861654218	-0.214819
PERCC1	77.04496914	66.38612267	0.861654218	-0.214819
CYB5RL	30.81798766	26.55444907	0.861654218	-0.214819
ENSG000002	30.81798766	26.55444907	0.861654218	-0.214819
TCF20	15.40899383	13.27722453	0.861654218	-0.214819

CIDEB	5.503212081	2.222345463	0.40382697	-1.308191
ZNF365	5.503212081	2.222345463	0.40382697	-1.308191
SHISAL2B	5.503212081	2.222345463	0.40382697	-1.308191
GPR78	5.503212081	2.222345463	0.40382697	-1.308191
CIBAR1P1	5.503212081	2.222345463	0.40382697	-1.308191
TEPP	5.503212081	2.222345463	0.40382697	-1.308191
SMIM43	5.503212081	2.222345463	0.40382697	-1.308191
KLK13	5.503212081	2.222345463	0.40382697	-1.308191
OR8J3	5.503212081	2.222345463	0.40382697	-1.308191
METTL7B	5.503212081	2.222345463	0.40382697	-1.308191
PRR18	5.503212081	2.222345463	0.40382697	-1.308191
FAM89B	5.503212081	2.222345463	0.40382697	-1.308191
KCNJ10	5.503212081	2.222345463	0.40382697	-1.308191
LINC01547	5.503212081	2.222345463	0.40382697	-1.308191
ZNF502	5.503212081	2.222345463	0.40382697	-1.308191
IGLV4-60	5.503212081	2.222345463	0.40382697	-1.308191
TRAV27	5.503212081	2.222345463	0.40382697	-1.308191
NUDCP1	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
PPM1N	5.503212081	2.222345463	0.40382697	-1.308191
RRM2P3	5.503212081	2.222345463	0.40382697	-1.308191
UPF3AP2	5.503212081	2.222345463	0.40382697	-1.308191
LINC02981	5.503212081	2.222345463	0.40382697	-1.308191
ISCA1P1	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
TINCR	5.503212081	2.222345463	0.40382697	-1.308191
PGAM1P6	5.503212081	2.222345463	0.40382697	-1.308191
P3H2-AS1	5.503212081	2.222345463	0.40382697	-1.308191
ZNF503-AS1	5.503212081	2.222345463	0.40382697	-1.308191
RPS28P7	5.503212081	2.222345463	0.40382697	-1.308191
DONSONP1	5.503212081	2.222345463	0.40382697	-1.308191
EIF4A2P2	5.503212081	2.222345463	0.40382697	-1.308191
CCDC26	5.503212081	2.222345463	0.40382697	-1.308191
MTCYBP32	5.503212081	2.222345463	0.40382697	-1.308191
C1DP1	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
UPF3AP3	5.503212081	2.222345463	0.40382697	-1.308191
RPS28P4	5.503212081	2.222345463	0.40382697	-1.308191
MRPS17	5.503212081	2.222345463	0.40382697	-1.308191
DNAJB6P7	5.503212081	2.222345463	0.40382697	-1.308191
VIRMA-DT	5.503212081	2.222345463	0.40382697	-1.308191
OR4C13	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
ANP32BP1	5.503212081	2.222345463	0.40382697	-1.308191
TSPAN5-DT	5.503212081	2.222345463	0.40382697	-1.308191
LARP4P	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
SNORD3C	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
SMIM22	5.503212081	2.222345463	0.40382697	-1.308191
NDUFA7	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
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ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
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ENSG000002	5.503212081	2.222345463	0.40382697	-1.308191
MBD2	1390.111372	561.1422294	0.403667102	-1.308762
PDIA3P1	806.7708911	325.5736103	0.403551509	-1.309175
PEAK1	3622.214192	1461.192142	0.403397498	-1.309726
PGRMC2	980.6723929	395.5774924	0.403373742	-1.309811
BUD31	449.0621058	181.1211552	0.403332085	-1.30996
USP15	1138.064258	458.9143381	0.403241148	-1.310285
UBE2H	661.4860922	266.6814555	0.403155045	-1.310593
CNTRL	620.7623228	250.0138646	0.402752963	-1.312033
LRRC49	190.411138	76.67091847	0.402659841	-1.312367
TINAGL1	162.8950776	65.55919115	0.40246269	-1.313073
MSR1	477.6788087	192.2328825	0.402431255	-1.313186
C1S	5825.700309	2343.463291	0.402262933	-1.313789
MDM2	1251.430427	503.3612473	0.402228711	-1.313912
TRIM38	259.7516102	104.4502368	0.402115839	-1.314317
ENSG000002	124.372593	50.00277291	0.402040125	-1.314589
CHIC2	118.869381	47.78042745	0.401957401	-1.314885
AEBP2	1100.642416	442.2467471	0.401807836	-1.315422
SPN	107.8629568	43.33573653	0.401766629	-1.31557
KLHL6	91.35332055	36.66870014	0.401394278	-1.316908
RERG	246.5439013	98.8943731	0.401122772	-1.317884
RIN3	487.5845904	195.5664007	0.401092251	-1.317994
CHRNA5	241.0406892	96.67202764	0.401061032	-1.318106
ZNF12	792.4625397	317.7954012	0.401022617	-1.318244
FBXO16	149.6873686	60.0033275	0.400857655	-1.318838
PHKA1P1	74.84368431	30.00166375	0.400857655	-1.318838
SMARCD3	213.5246288	85.56030032	0.400704597	-1.319389
ZNF155	282.865101	113.3396186	0.400684348	-1.319462
ELOVL5	2357.576056	944.4968217	0.400621995	-1.319686
GTF2I	1635.554631	654.4807388	0.400158287	-1.321357
THAP12	1391.212014	556.6975385	0.400152912	-1.321377
NIBAN1	3551.773077	1421.189924	0.400135339	-1.32144
TPM1	3104.912256	1242.291114	0.400105063	-1.321549
EIF3E	5104.779527	2042.33548	0.400082995	-1.321629
MYO1G	175.0021442	70.00388208	0.400017282	-1.321866
ZNF438	677.9957284	271.1261465	0.399893591	-1.322312
GOLGA5	1959.143501	783.3767757	0.399856762	-1.322445
MARK1	703.310504	281.1267011	0.399719184	-1.322941
EIF3M	1173.284816	468.9148927	0.3996599	-1.323155
PPARA	431.4518272	172.2317734	0.399191202	-1.324848
ZNF431	620.7623228	247.7915191	0.399172936	-1.324914
MON1A	141.9828717	56.6698093	0.399131308	-1.325065
POPDC2	47.3276239	18.88993643	0.399131308	-1.325065
OR52B2	9.9579184	10.00055458	0.995736618	-0.006164
CLNK	13.27722453	13.33407278	0.995736618	-0.006164
CASP4	13.27722453	13.33407278	0.995736618	-0.006164
OXCT2	13.27722453	13.33407278	0.995736618	-0.006164
MALT1-AS1	13.27722453	13.33407278	0.995736618	-0.006164
IQSEC3	6.638612267	6.667036389	0.995736618	-0.006164
DEPDC7	6.638612267	6.667036389	0.995736618	-0.006164
GNRH2	6.638612267	6.667036389	0.995736618	-0.006164
ADAMTS19	6.638612267	6.667036389	0.995736618	-0.006164
NIM1K	6.638612267	6.667036389	0.995736618	-0.006164
NUTM2B	6.638612267	6.667036389	0.995736618	-0.006164
PPIAP2	6.638612267	6.667036389	0.995736618	-0.006164
RPS19P3	6.638612267	6.667036389	0.995736618	-0.006164
NDUFA5P11	6.638612267	6.667036389	0.995736618	-0.006164
ENSG000002	6.638612267	6.667036389	0.995736618	-0.006164
ENSG000002	6.638612267	6.667036389	0.995736618	-0.006164
SCTR	3.319306133	3.333518194	0.995736618	-0.006164
GABRA4	3.319306133	3.333518194	0.995736618	-0.006164
GNAT1	3.319306133	3.333518194	0.995736618	-0.006164
FBP2	3.319306133	3.333518194	0.995736618	-0.006164
USP26	3.319306133	3.333518194	0.995736618	-0.006164
C4orf17	3.319306133	3.333518194	0.995736618	-0.006164
CABS1	3.319306133	3.333518194	0.995736618	-0.006164
CRH	3.319306133	3.333518194	0.995736618	-0.006164
MPV17L	3.319306133	3.333518194	0.995736618	-0.006164
IL23R	3.319306133	3.333518194	0.995736618	-0.006164
ACSL6	3.319306133	3.333518194	0.995736618	-0.006164
ZNF23	3.319306133	3.333518194	0.995736618	-0.006164
BATF2	3.319306133	3.333518194	0.995736618	-0.006164
CDKN2AIP	3.319306133	3.333518194	0.995736618	-0.006164
GKN2	3.319306133	3.333518194	0.995736618	-0.006164
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TAS2R14	3.319306133	3.333518194	0.995736618	-0.006164
SPDYE3	3.319306133	3.333518194	0.995736618	-0.006164
NBPF7P	3.319306133	3.333518194	0.995736618	-0.006164
RBM38-AS1	3.319306133	3.333518194	0.995736618	-0.006164
RBMX2P3	3.319306133	3.333518194	0.995736618	-0.006164
RANP4	3.319306133	3.333518194	0.995736618	-0.006164
LAGE3P1	3.319306133	3.333518194	0.995736618	-0.006164
ENSG000002	3.319306133	3.333518194	0.995736618	-0.006164
BOD1L2	3.319306133	3.333518194	0.995736618	-0.006164
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SOX9-AS1	3.319306133	3.333518194	0.995736618	-0.006164
CLEC2L	3.319306133	3.333518194	0.995736618	-0.006164
SNAI1P1	3.319306133	3.333518194	0.995736618	-0.006164
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ARL4AP2	3.319306133	3.333518194	0.995736618	-0.006164
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MIR3677HG	3.319306133	3.333518194	0.995736618	-0.006164
DSCAS	3.319306133	3.333518194	0.995736618	-0.006164
ENSG000002	3.319306133	3.333518194	0.995736618	-0.006164
NBPF19	3.319306133	3.333518194	0.995736618	-0.006164
ENSG000002	3.319306133	3.333518194	0.995736618	-0.006164
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CAGE1	16.59653067	16.66759097	0.995736618	-0.006164
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USP25	1249.718759	1256.736359	0.994416013	-0.008079
CHP1	396.6570829	398.9110106	0.994349798	-0.008175
DDX5	12030.82508	12100.67105	0.994227926	-0.008351
MRPL49	356.8254093	358.9087923	0.99419523	-0.008399
PRPF19	1354.276902	1362.297769	0.994112252	-0.008519
ZXDB	326.9516541	328.9071285	0.994054631	-0.008603
SP1	1398.257709	1406.744678	0.993966944	-0.00873
ESS2	150.1986025	151.1194915	0.99390622	-0.008818
SLC30A5	747.6737066	752.2639392	0.993898109	-0.00883
FAM135A	594.1557979	597.8109295	0.993885807	-0.008848
OAS3	440.6378892	443.3579198	0.993864933	-0.008878
LCORL	287.1199805	288.9049102	0.99382174	-0.008941
ZC3HC1	120.3248473	121.1178277	0.993452819	-0.009477
TARS3	327.7814807	330.0183012	0.993222132	-0.009812
PAPSS2	103.7283167	104.4502368	0.993088382	-0.010006
HAPSTR1	726.0982167	731.1516573	0.993088382	-0.010006
GUF1	391.6781237	394.4663197	0.992931726	-0.010234
C19orf48P	287.9498071	290.0160829	0.992875306	-0.010316
WDR35	1258.017025	1267.848087	0.992245868	-0.01123
STX18	234.8409089	236.6797918	0.992230503	-0.011253
TERF2IP	379.2307257	382.2434196	0.992118389	-0.011416
FIBP	517.8117568	522.2511838	0.991499441	-0.012316
RPS16	1789.935832	1805.655689	0.991294101	-0.012615
FBXO7	1053.879697	1063.392304	0.991054471	-0.012964
C6orf118	57.2580308	57.78098203	0.990949423	-0.013117
RABEP1	1175.864198	1186.732477	0.990841845	-0.013273
CLPTM1L	53.93872467	54.44746384	0.990656329	-0.013543
ARSB	155.1775617	156.6753551	0.990440147	-0.013858
ANKRD13C	290.4392867	293.3496011	0.990079024	-0.014384
MORC2	804.1019108	812.2672667	0.989947452	-0.014576
SPRED1	324.4621745	327.7959558	0.989829706	-0.014748
POM121	818.2089619	826.7125122	0.989714018	-0.014916
SSR2	1494.517587	1510.083742	0.989691859	-0.014949
RUBCNL	43.98080627	44.44690926	0.989513264	-0.015209
EPHB6	15.40899383	13.27722453	0.861654218	-0.214819
EGFL6	15.40899383	13.27722453	0.861654218	-0.214819
RPL17P39	15.40899383	13.27722453	0.861654218	-0.214819
RAB43P1	15.40899383	13.27722453	0.861654218	-0.214819
MRPL45P2	15.40899383	13.27722453	0.861654218	-0.214819
TAF7L	7.704496914	6.638612267	0.861654218	-0.214819
GNRH1	7.704496914	6.638612267	0.861654218	-0.214819
ADGRF4	7.704496914	6.638612267	0.861654218	-0.214819
ANKRD55	7.704496914	6.638612267	0.861654218	-0.214819
MOAP1	7.704496914	6.638612267	0.861654218	-0.214819
PLK5	7.704496914	6.638612267	0.861654218	-0.214819
DIP2A-IT1	7.704496914	6.638612267	0.861654218	-0.214819
ARID3BP1	7.704496914	6.638612267	0.861654218	-0.214819
STMND1	7.704496914	6.638612267	0.861654218	-0.214819
ENSG000002	7.704496914	6.638612267	0.861654218	-0.214819
MTND4P14	7.704496914	6.638612267	0.861654218	-0.214819
RPS19P3	7.704496914	6.638612267	0.861654218	-0.214819
UGT2B24P	7.704496914	6.638612267	0.861654218	-0.214819
ZNF252P-AS	7.704496914	6.638612267	0.861654218	-0.214819
ENSG000002	7.704496914	6.638612267	0.861654218	-0.214819
ENSG000002	7.704496914	6.638612267	0.861654218	-0.214819
LRTOMT	7.704496914	6.638612267	0.861654218	-0.214819
ENSG000002	7.704496914	6.638612267	0.861654218	-0.214819
ENSG000002	7.704496914	6.638612267	0.861654218	-0.214819
ABCA6	355.5075005	306.2059908	0.861320761	-0.215377
ZFAND4	420.445403	361.8043685	0.860526399	-0.216709
CREB1	1035.704514	891.2336968	0.860509619	-0.216737
COL4A4	335.695937	288.7796336	0.860241671	-0.217186
BCLAF3	1109.447556	954.3005134	0.860158291	-0.217326
ARMCX6	78.14561156	67.2159492	0.860137222	-0.217361
MAP2K3	281.7644586	242.3093477	0.8599713	-0.21764
RFC1	2607.421884	2242.191293	0.859926545	-0.217715
ARSB	180.5053563	155.1775617	0.859683973	-0.218122
ULK4	526.107075	452.2554607	0.859626267	-0.218219
ELOVL5	2357.576056	2026.436394	0.859542321	-0.218359
RHOG	212.4239863	182.5618373	0.859421954	-0.218561
ATP6V0A2	806.7708911	692.9051554	0.858862365	-0.219501
EEF1AKMT1	126.5738779	108.7072759	0.858844476	-0.219531
TPCN2	71.54175706	61.40716347	0.858340164	-0.220379
ARFRP1	214.6252712	184.2214904	0.858340164	-0.220379
PDXK	628.4668197	539.3872467	0.858258908	-0.220515
SREK1IP1	167.2976473	143.5599903	0.858111232	-0.220763
RNF214	383.0235609	328.6113072	0.857940192	-0.221051
SMARCC1	3267.807334	2803.15403	0.857808843	-0.221272
MOCS2	408.3383364	350.1867971	0.857589812	-0.22164
SECISBP2	1483.665977	1272.124076	0.857419456	-0.221927
TTC21B	2977.237736	2552.546417	0.857353911	-0.222037
CDK19	642.7751711	551.0048182	0.857227913	-0.222249
ZNF586	450.1627483	385.869338	0.857177409	-0.222334
INTS9	209.1220591	179.2425312	0.857119196	-0.222432
RUBCN	789.1606125	676.3086247	0.85699744	-0.222637
CAPN9	24.21413316	20.74566333	0.856758456	-0.22304
H3P16	24.21413316	20.74566333	0.856758456	-0.22304
ADRA2C	72.64239948	62.23699	0.856758456	-0.22304
KSR1	266.3554647	228.2022967	0.856758456	-0.22304
SP2	703.310504	602.4540632	0.856597562	-0.223311
EFR3A	2248.612456	1926.027384	0.856540387	-0.223407
VTI1B	849.6959454	727.7578698	0.856492106	-0.223488
CNST	559.1263475	478.8099098	0.856353688	-0.223721
COQ10A	89.15203572	76.34404107	0.856335365	-0.223752
FMO4	64.93790256	55.59837774	0.856177603	-0.224018
CDC16	714.3169282	611.5821551	0.856177603	-0.224018
SNX24	129.8758051	111.1967555	0.856177603	-0.224018
KPNA5	170.5995745	146.0494699	0.856095159	-0.224157
HEXB	1251.430427	1071.306055	0.856065212	-0.224207
CACTIN	292.7708827	250.6076131	0.855985441	-0.224342
CTNNB1	3953.507559	3383.202777	0.855747137	-0.224744
CIC	1501.276256	1284.571474	0.855652961	-0.224902
PNRC2	709.9143585	607.4330224	0.855642677	-0.22492
ANKS3	171.7002169	146.8792964	0.855440366	-0.225261
DBI	785.8586852	672.159492	0.855318526	-0.225466
AK4	204.7194894	175.0933985	0.855284463	-0.225524
DMRTA1	221.2291257	189.2004496	0.855223963	-0.225626
ABCD4	294.9721676	252.2672661	0.855223963	-0.225626
CALHM2	73.74304189	63.06681654	0.855223963	-0.225626
HEATR5B	1780.83943	1522.731689	0.855064002	-0.225896
DNAJB12	510.6980812	436.4887566	0.854690418	-0.226526
ACAP3	148.5867262	126.9634596	0.854473767	-0.226892
ENSG000002	49.52890873	42.3211532	0.854473767	-0.226892
ADCY8	16.50963624	14.10705107	0.854473767	-0.226892
GPR146	16.50963624	14.10705107	0.854473767	-0.226892
MROH7	16.50963624	14.10705107	0.854473767	-0.226892
SEPTIN10P1	16.50963624	14.10705107	0.854473767	-0.226892
ZNF587B	975.1691808	833.1458395	0.854360306	-0.227083
ESRRG	157.3918655	134.4318984	0.854122276	-0.227485
SLC35E3	281.7644586	240.6496947	0.854081086	-0.227555
TAS2R4	265.2548223	226.5426436	0.854056645	-0.227596
MAPKAP1	1461.653129	1248.059106	0.853868186	-0.227915
MOCS3	166.1970049	141.9003372	0.853808029	-0.228016
MECP2	1296.556766	1106.988596	0.853791075	-0.228045
PPFIA2	149.6873686	127.7932861	0.853734602	-0.22814
RASAL2	1074.226998	916.9583194	0.853598281	-0.228371
SPR	58.33404806	49.789592	0.853525405	-0.228494
PITPNM3	183.8072835	156.8372148	0.853269859	-0.228926
PIGH	125.4732355	107.0476228	0.853151052	-0.229127
ASB7	167.2976473	142.7301637	0.853151052	-0.229127
ST13	1138.064258	970.897044	0.853112675	-0.229192
DIS3L	452.3640331	385.869338	0.853006229	-0.229372
NUMBL	420.445403	358.4850624	0.852631661	-0.230005
ELP4	202.5182046	172.6039189	0.852288412	-0.230586
RBMS1P1	25.31477557	21.57548987	0.852288412	-0.230586

CARD11	183.8072835	73.33740027	0.398990719	-1.325573
PRKRIP1	136.4796596	54.44746384	0.398941967	-1.325749
ANGPT1	303.7773069	121.1178277	0.398705976	-1.326603
ZC3H15	549.2205657	218.9010281	0.398566699	-1.327107
ICOS	41.82441182	16.66759097	0.398513458	-1.3273
TTC13	909.1306359	362.2423104	0.398449129	-1.327533
MAK16	281.7644586	112.2284459	0.398305899	-1.328051
SPARC	3891.871584	1548.974788	0.398002543	-1.32915
RPGRIP1L	862.9036544	343.352374	0.397903488	-1.32951
SRGAP1	779.2548307	310.0171921	0.397838011	-1.329747
ESCO1	1033.503229	411.1339106	0.397806121	-1.329863
MYBL2	72.64239948	28.89049102	0.39770838	-1.330217
HVCN1	72.64239948	28.89049102	0.39770838	-1.330217
MTIF3	461.1691724	183.3435007	0.397562352	-1.330747
RAB31	341.1991491	135.5630732	0.397313632	-1.33165
CKAP2L	67.13918739	26.66814555	0.397206856	-1.332038
PIAS1	3045.477566	1208.955932	0.396967604	-1.332907
SLC9A9	447.9614634	177.787637	0.396881543	-1.33322
GTPBP10	313.6830886	124.4513459	0.396742287	-1.333726
CATIP	30.81798766	12.22290005	0.396615775	-1.334186
DLK2	30.81798766	12.22290005	0.396615775	-1.334186
SACM1L	1109.447556	440.0244016	0.396615775	-1.334186
ZNF397	425.9486151	168.8982552	0.396522607	-1.334525
NPR2	241.0406892	95.5608549	0.396451135	-1.334785
FAM98B	451.2633907	178.8988098	0.396439892	-1.334826
HOXC6	179.4047139	71.11505481	0.396394572	-1.334991
ZNF708	588.8436927	233.3462736	0.396278803	-1.335412
TATDN3	204.7194894	81.11560939	0.396228076	-1.335597
SOCS2	659.2848074	261.1255919	0.396074032	-1.336158
MTFMT	224.5310529	88.89381852	0.395908795	-1.33676
C2CD6	193.7130653	76.67091847	0.395796321	-1.33717
TSTD3	137.580302	54.44746384	0.395750431	-1.337337
SNRPD1	219.0278408	86.67147305	0.395709845	-1.337485
TYMP	157.3918655	62.22567296	0.395355076	-1.338779
ESRRG	157.3918655	62.22567296	0.395355076	-1.338779
TTK	50.62955115	20.00110917	0.395048123	-1.3399
KCNJ15	50.62955115	20.00110917	0.395048123	-1.3399
E2F8	25.31477557	10.00055458	0.395048123	-1.3399
RNF175	25.31477557	10.00055458	0.395048123	-1.3399
RPL5P34	25.31477557	10.00055458	0.395048123	-1.3399
PTPRN2	540.4154264	213.3451644	0.39477993	-1.340879
CTNNA3	186.0085684	73.33740027	0.394268936	-1.342748
DDR2	1234.920791	486.6936564	0.394109209	-1.343333
OR51L1	45.12633907	17.7787637	0.393977532	-1.343815
COBL	1757.725939	692.2606117	0.393838764	-1.344323
TLR8	194.8137077	76.67091847	0.393560183	-1.345344
SCN1A	64.93790256	25.55697282	0.393560183	-1.345344
HOXA5	104.5610295	41.11339106	0.393199945	-1.346665
NHLRC3	342.2997915	134.4519005	0.392789899	-1.34817
IRS1	1491.370474	585.5880295	0.392650947	-1.348681
MLKL	118.869381	46.66925472	0.392609555	-1.348833
AMPH	19.81156349	7.77820912	0.392609555	-1.348833
AUNIP	19.81156349	7.77820912	0.392609555	-1.348833
MMP13	19.81156349	7.77820912	0.392609555	-1.348833
KRT73	19.81156349	7.77820912	0.392609555	-1.348833
GIMAP5	19.81156349	7.77820912	0.392609555	-1.348833
PPP1R3G	19.81156349	7.77820912	0.392609555	-1.348833
LINC02987	19.81156349	7.77820912	0.392609555	-1.348833
SLIT2	1582.723795	621.1455569	0.392453541	-1.349406
KDELR3	192.6124229	75.55974574	0.392289057	-1.350011
CHST3	152.9892959	60.0033275	0.39220605	-1.350316
MYBL1	152.9892959	60.0033275	0.39220605	-1.350316
ZNF830	305.9785917	120.006655	0.39220605	-1.350316
CLINT1	4558.860888	1787.876925	0.392176241	-1.350426
PRXL2C	113.3661689	44.44690926	0.39206502	-1.350835
COL8A2	53.9314784	21.1122819	0.39146492	-1.353045
TAPBPL	323.5888704	126.6736914	0.39146492	-1.353045
C11orf24	823.2805274	322.2400921	0.391409831	-1.353248
ZNF430	141.9828717	55.55863657	0.391305204	-1.353634
UBAP1L	88.0513933	34.44635467	0.391207378	-1.353995
PPP1R12B	3032.269857	1185.621304	0.39100125	-1.354755
EMP2	326.8907976	127.7848641	0.390909946	-1.355092
LRRTM3	136.4796596	53.33629111	0.390800294	-1.355497
SPATA33	34.11991491	13.33407278	0.390800294	-1.355497
GIMAP2	82.54818122	32.22400921	0.390366071	-1.3571
GTF2E2	427.0492575	166.6759097	0.390296685	-1.357357
PYM1	130.9764475	51.11394565	0.390252955	-1.357519
RBBP8	324.6895128	126.6736914	0.390137921	-1.357944
HIVEP1	6631.370558	2586.810119	0.3900868	-1.358133
CD27	48.42826632	18.88993643	0.390060142	-1.358232
KICS2	159.5931504	62.22567296	0.389901903	-1.358817
AP4S1	62.73661773	24.44580009	0.389657603	-1.359721
SBSPON	62.73661773	24.44580009	0.389657603	-1.359721
NACA	3246.895128	1264.514568	0.389453468	-1.360477
STYX	245.4432588	95.5608549	0.389339904	-1.360898
AKIRIN2	168.3982897	65.55919115	0.389310315	-1.361008
POLK	793.5631822	308.9060193	0.389264555	-1.361177
ARPP19	316.9850159	123.3401732	0.389104112	-1.361772
SVIL-AS1	134.2783748	52.22511838	0.388931713	-1.362411
TLNRD1	234.4368347	91.11616398	0.38865976	-1.36342
STK4	983.9743202	382.2434196	0.388468898	-1.364129
HECW1	114.4668113	44.44690926	0.388295164	-1.364774
TNFSF4	14.30835141	5.555863657	0.388295164	-1.364774
ENSG000002	14.30835141	5.555863657	0.388295164	-1.364774
NCK1-DT	14.30835141	5.555863657	0.388295164	-1.364774
MSANTD2-A	14.30835141	5.555863657	0.388295164	-1.364774
ENSG000002	14.30835141	5.555863657	0.388295164	-1.364774
ENSG000002	14.30835141	5.555863657	0.388295164	-1.364774
LOXL4	85.85010847	33.33518194	0.388295164	-1.364774
F11R	42.92505424	16.66759097	0.388295164	-1.364774
GARS1	1477.062123	573.3651294	0.388179428	-1.365204
ZNF433-AS1	43.98080627	44.44690926	0.989513264	-0.015209
UBN2	1103.669289	1115.617422	0.989290116	-0.015534
ANKAR	338.5692256	342.2412013	0.989270796	-0.015563
EMC4	375.9114196	380.0210742	0.989185719	-0.015687
SLC25A21	81.32300027	82.22678213	0.989008668	-0.015945
NPLOC4	1607.373995	1625.645706	0.988760336	-0.016307
C6orf89	1031.474381	1043.391195	0.988578767	-0.016572
PIGX	736.8859616	745.5969028	0.988316822	-0.016954
DDX19B	71.36508187	72.22622754	0.988077106	-0.017304
ZDHHC9	442.2975423	447.8026108	0.987706484	-0.017846
GALE	150.1986025	152.2306642	0.98665143	-0.019388
CEP170	88.79143907	90.00499125	0.986516835	-0.019584
BASP1	146.8792964	148.897146	0.98644803	-0.019685
NGRN	58.08785734	58.89215477	0.986342877	-0.019839
HYPK	82.1528268	83.33795486	0.985779252	-0.020663
LYSMD2	54.7685512	55.55863657	0.985779252	-0.020663
CYP46A1	27.3842756	27.77931829	0.985779252	-0.020663
THOC5	431.5097974	437.8020562	0.985627617	-0.020885
KCTD15	291.2691132	295.5719466	0.985442349	-0.021157
ERCC3	791.6545128	803.3778848	0.9854074	-0.021208
COA6	102.8984901	104.4502368	0.985143675	-0.021594
CLEC16A	1249.718759	1268.959259	0.984837575	-0.022042
PRMT5	1112.797381	1130.062668	0.984721833	-0.022212
THAP7	147.7091229	150.0083187	0.984672878	-0.022284
SYNE3	120.3248473	122.2290005	0.984421429	-0.022652
NOP16	234.0110824	237.7909645	0.984104181	-0.023117
PHLPP2	437.3185831	444.4690926	0.983912246	-0.023398
CDK12	2497.777865	2539.029691	0.983752917	-0.023632
HYAL2	268.8637968	273.3484919	0.983593489	-0.023866
CNBP	1745.955026	1775.654025	0.983274333	-0.024334
FRMD6	300.3972051	305.5725011	0.983063607	-0.024643
NPEPPS	1326.0628	1348.963696	0.983023342	-0.024702
GRB2	1029.814728	1047.835886	0.982801545	-0.025028
KIDINS220	4644.539107	4725.817627	0.982801173	-0.025029
SRSF11	1026.495422	1044.502368	0.982760263	-0.025089
ZNF619	165.9653067	168.8982552	0.982634821	-0.025273
RFX4	20.74566333	21.1122819	0.982634821	-0.025273
RASGRF1	204.1373272	207.7893008	0.982424631	-0.025581
CSK	200.8180211	204.4557826	0.982207588	-0.0259
NHSL1	967.5777379	985.6102128	0.981704253	-0.02664
PARD6A	38.17202053	38.8910456	0.981511809	-0.026922
RPUSD2	93.77039827	95.5608549	0.981263702	-0.027287
METTL13	562.6223896	573.3651294	0.981263702	-0.027287
FUT4	55.59837774	56.6698093	0.981093433	-0.027538
FRMPD1	90.45109214	92.22733671	0.980740585	-0.028057
SNAPC2	90.45109214	92.22733671	0.980740585	-0.028057
NSUN6	623.1997266	635.5908024	0.980504633	-0.028404
HLA-DRB1	282.1410213	287.7937374	0.980358446	-0.028619
NDUFB11	892.0635234	910.050467	0.980235224	-0.0288
ZBED10P	34.8527144	35.55752741	0.980178234	-0.028884
IL32	17.4263572	17.7787637	0.980178234	-0.028884
CD33	17.4263572	17.7787637	0.980178234	-0.028884
OR1Q1	17.4263572	17.7787637	0.980178234	-0.028884
FAM182B	17.4263572	17.7787637	0.980178234	-0.028884
DNAJB13	17.4263572	17.7787637	0.980178234	-0.028884
SRRM5	17.4263572	17.7787637	0.980178234	-0.028884
DCTN6-DT	17.4263572	17.7787637	0.980178234	-0.028884
RSPH3	512.8327976	523.3623565	0.97988094	-0.029322
ST7	324.4621745	331.129474	0.979864977	-0.029345
NAGA	349.3569705	356.6864468	0.979451206	-0.029954
ROMO1	510.343318	521.140011	0.979282548	-0.030203
TWNK	129.4529392	132.229555	0.979001549	-0.030617
SYCP2	525.2801956	536.6964293	0.978728695	-0.031019
DST	13666.41318	13965.21889	0.978603578	-0.031204
TEFM	157.6670413	161.1200461	0.978568745	-0.031255
COMMD8	140.2406841	143.3412824	0.978369119	-0.031549
PPIH	140.2406841	143.3412824	0.978369119	-0.031549
PHB2	806.5913904	824.4901667	0.978291098	-0.031664
CIAPIN1	122.8143269	125.5625187	0.978112961	-0.031927
MBNL2	351.0166236	358.9087923	0.978010657	-0.032078
ACACA	105.3879697	107.7837549	0.977772298	-0.03243
ZNF786	284.6305009	291.1272556	0.977684141	-0.03256
RAB15	119.4950208	122.2290005	0.977632316	-0.032636
ANKRD36C	1068.816575	1093.393968	0.977521924	-0.032799
CEPT1	598.3049306	612.256175	0.977213387	-0.033254
BRD4	4553.258189	4660.258436	0.977039847	-0.033511
ZNF287	243.1391743	248.9026918	0.976844294	-0.033799
DCAF1	1149.309749	1176.731923	0.976696329	-0.034018
ADGRE3	14.10705107	14.44524551	0.976587837	-0.034178
HNRNPA3P	14.10705107	14.44524551	0.976587837	-0.034178
CCDC28A-A	14.10705107	14.44524551	0.976587837	-0.034178
CPT1A	2028.096048	2076.781835	0.976557101	-0.034224
SNAP23	222.3935109	227.7904099	0.976307611	-0.034592
DNAH5	1427.301637	1462.303315	0.97606401	-0.034952
PFKL	2233.063201	2287.904654	0.976029835	-0.035003
ZNF630	95.43005134	97.78320037	0.975935038	-0.035143
RNF169	576.7294407	591.1438931	0.975616	-0.035615
EIF3D	1005.749758	1031.168295	0.975349769	-0.036008
LIN54	779.2071148	798.9331939	0.975309476	-0.036068
ATP6V1E1	421.551879	432.2461925	0.975258744	-0.036143
RIMS3	117.0055412	120.006655	0.974992105	-0.036538
CCDC186	1606.544169	1647.869161	0.974922164	-0.036641
KDF1	283.8006744	291.1272556	0.97483375	-0.036772
SEC62	1108.648249	1137.840877	0.974343839	-0.037497
ARFGEF1	6169.760276	6332.573396	0.97428958	-0.037577
TSSK3	24.894796	25.55697282	0.97409017	-0.037873
ODF3B	24.894796	25.55697282	0.97409017	-0.037873
MICAL2	796.633472	817.8231303	0.97409017	-0.037873
SLC30A1	463.0432056	475.5819291	0.973634988	-0.038547
BRD8	1058.02883	1086.726931	0.973592169	-0.038611
GALK2	178.4127047	183.3435007	0.97310624	-0.039331
LRRC28	126.5738779	107.8774493	0.852288412	-0.230586
LDLRAD3	160.6937928	136.921378	0.852063889	-0.230966
ZNF333	380.822276	324.4621745	0.852004189	-0.231068
PMS2	635.0706742	541.0468998	0.851947542	-0.231163
LTA4H	1354.890814	1154.288708	0.851942234	-0.231172
RAI1	2575.503254	2194.061354	0.851896169	-0.23125
PDE7B	118.869381	101.2388371	0.851681369	-0.231614
MARK2	1260.235567	1072.965708	0.85140091	-0.232089
PPDPF	1221.713082	1039.772646	0.851077607	-0.232637
PNPLA4	128.7751627	109.5371024	0.850607369	-0.233435
NAT9	128.7751627	109.5371024	0.850607369	-0.233435
CTNND1	128.7751627	109.5371024	0.850607369	-0.233435
TXNDC12	42.92505424	36.51236747	0.850607369	-0.233435
C1orf54	42.92505424	36.51236747	0.850607369	-0.233435
TIGD4	42.92505424	36.51236747	0.850607369	-0.233435
CDC26P1	42.92505424	36.51236747	0.850607369	-0.233435
MNDA	137.580302	117.0055412	0.850452714	-0.233697
FBXL3	758.3426248	644.7752164	0.850242615	-0.234054
ENSG000002	51.73019357	43.98080627	0.850196051	-0.234133
RER1	457.8672452	389.1886441	0.850003245	-0.23446
KCTD3	2205.687402	1874.578139	0.849883867	-0.234662
HIP1R	356.6081429	302.8866847	0.84935437	-0.235561
NADK2	558.0257051	473.8309506	0.849120294	-0.235959
TMEM51	183.8072835	156.0073883	0.848755203	-0.23658
MAP2K6	263.0535375	223.2233375	0.848585195	-0.236869
SACS	3748.78807	3180.725102	0.84846757	-0.237069
GORASP2	3473.627466	2946.71402	0.848310318	-0.237336
UBE3B	1002.685241	850.5721967	0.848294322	-0.237363
EID1	906.929351	769.2491964	0.848190871	-0.237539
AFF2	52.83083598	44.8106328	0.848190871	-0.237539
WBP2NL	52.83083598	44.8106328	0.848190871	-0.237539
RGPD4	26.41541799	22.4053164	0.848190871	-0.237539
VNN1	17.61027866	14.9368776	0.848190871	-0.237539
TERT	17.61027866	14.9368776	0.848190871	-0.237539
FZD9	17.61027866	14.9368776	0.848190871	-0.237539
SNX10-AS1	17.61027866	14.9368776	0.848190871	-0.237539
ENSG000002	17.61027866	14.9368776	0.848190871	-0.237539
CNTNAP3	8.80513933	7.4684388	0.848190871	-0.237539
TMEM140	8.80513933	7.4684388	0.848190871	-0.237539
TEKT5	8.80513933	7.4684388	0.848190871	-0.237539
DYDC1	8.80513933	7.4684388	0.848190871	-0.237539
SIX6	8.80513933	7.4684388	0.848190871	-0.237539
BCLAF1P1	8.80513933	7.4684388	0.848190871	-0.237539
ZNF346-IT1	8.80513933	7.4684388	0.848190871	-0.237539
LINC00638	8.80513933	7.4684388	0.848190871	-0.237539
MRPL45	8.80513933	7.4684388	0.848190871	-0.237539
ENSG000002	8.80513933	7.4684388	0.848190871	-0.237539
ENSG000002	8.80513933	7.4684388	0.848190871	-0.237539
MTO1	334.5952946	283.8006744	0.848190871	-0.237539
NCOR1	9466.625423	8025.252404	0.847741623	-0.238303
RINT1	433.653112	367.6131543	0.847712478	-0.238353
ZNF580	159.5931504	135.2617249	0.847540917	-0.238645
MESD	603.1520441	511.1731446	0.847502963	-0.23871
ZC3HC1	141.9828717	120.3248473	0.847460302	-0.238782
TYK2	906.929351	768.4193699	0.847275887	-0.239096
IST1	773.7516187	655.5629614	0.847252459	-0.239136
TMEM230	551.4218506	467.1923383	0.847250318	-0.23914
BID	97.95717505	82.98265334	0.847131956	-0.239341
BACE1-AS	89.15203572	75.51421454	0.847027372	-0.23952
CLINT1	4558.860888	3861.18286	0.846962203	-0.239631
ME1	160.6937928	136.0915515	0.846899865	-0.239737
LIN54	920.13706	779.2071148	0.846838095	-0.239842
EMCN	62.73661773	53.10889814	0.846537478	-0.240354
PRDM2	2993.747372	2534.290233	0.846527752	-0.240371
UBOX5	242.1413316	204.9671537	0.846477354	-0.240457
RSL24D1	278.4625313	235.6707355	0.846328353	-0.240711
CCNT2-AS1	53.9314784	45.64045934	0.846267536	-0.240814
SPIN3	152.9892959	129.4529392	0.84615684	-0.241003
ZC3H11B	81.44753881	68.87560227	0.845643752	-0.241878
ARIH1	917.9357752	775.8878087	0.845252827	-0.242545
SRFBP1	209.1220591	176.7530516	0.845214763	-0.24261
TMUB2	209.1220591	176.7530516	0.845214763	-0.24261
TSC2	1923.922944	1625.630179	0.844955971	-0.243052
GPBP1L1	1302.059978	1099.520157	0.844446627	-0.243922
H4C9	27.51606041	23.23514293	0.844421134	-0.243965
DENND5A	1129.259119	953.4706868	0.844332953	-0.244116
EBF1	276.2612465	233.1812559	0.844060681	-0.244581
SEPTIN1	73.74304189	62.23699	0.843971016	-0.244735
NDUFA5	414.9421909	350.1867971	0.843941168	-0.244786
RPS24	5190.629635	4379.824443	0.843794443	-0.245037
SH3YL1	674.6938012	569.2610019	0.843732373	-0.245143
SSBP1	186.0085684	156.8372148	0.84317199	-0.246101
THOC5	511.7987236	431.5097974	0.84312402	-0.246183
SLC2A13	325.7901552	274.6725825	0.843096632	-0.24623
NDRG3	1033.503229	871.31786	0.843072219	-0.246272
DMPK	344.5010763	290.4392867	0.843072219	-0.246272
PBX4	37.42184215	31.53340827	0.84264714	-0.246999
PTCD1	18.71092108	15.76670413	0.84264714	-0.246999
USP50	18.71092108	15.76670413	0.84264714	-0.246999
CITED4	18.71092108	15.76670413	0.84264714	-0.246999
ENSG000002	18.71092108	15.76670413	0.84264714	-0.246999
THSD1	93.55460539	78.83352067	0.84264714	-0.246999
NDEL1	917.9357752	773.3983291	0.842540786	-0.247182
CDC37L1	487.5845904	410.764134	0.842446915	-0.247342
CPEB4	1803.95292	1519.412383	0.842268313	-0.247648
KDM4B	921.2377024	775.8878087	0.842223247	-0.247725
IL6ST	4859.336268	4091.874636	0.842064515	-0.247997
AGK	246.5439013	207.4566333	0.841459198	-0.249035
YBX1	2750.505398	2314.386202	0.841440341	-0.249067
CLDN1	199.2162773	167.6249597	0.841422006	-0.249099
SENP2	673.5931588	566.7715223	0.8414152	-0.24911

TAF3	609.7558986	236.6797918	0.388154985	-1.365295
COL21A1	194.8137077	75.55974574	0.387856412	-1.366405
BCAR3	194.8137077	75.55974574	0.387856412	-1.366405
EIF4B	3319.537528	1286.738023	0.38762569	-1.367264
SLC15A3	246.5439013	95.5608549	0.38760178	-1.367353
PXK	444.6595362	172.2317734	0.387334037	-1.36835
ALG5	350.0042884	135.5630732	0.387318321	-1.368408
GRIK5	160.6937928	62.22567296	0.387231342	-1.368732
TYROBP	499.691657	193.3440553	0.386926723	-1.369868
AOAH	244.3426164	94.44968217	0.386546087	-1.371288
RBM6	3326.141382	1284.515678	0.386187937	-1.372625
SLMAP	1500.175613	578.9209931	0.385902149	-1.373693
DPM1	993.8801019	383.3545923	0.38571513	-1.374392
P2RY13	97.95717505	37.77987287	0.385677444	-1.374533
LIMCH1	6402.436936	2469.025809	0.385638443	-1.374679
LEPROTL1	377.5203488	145.5636278	0.38557823	-1.374904
DTL	60.5353329	23.33462736	0.385471199	-1.375305
PPP3CA	6730.428376	2593.477155	0.38533612	-1.375811
H2BC12	1230.518221	473.3595836	0.384683116	-1.378258
FCGR2A	277.3618889	106.6725822	0.384597115	-1.37858
CCDC65	23.11349074	8.889381852	0.384597115	-1.37858
CADM2	23.11349074	8.889381852	0.384597115	-1.37858
SERPINA11	23.11349074	8.889381852	0.384597115	-1.37858
ENSG000002	23.11349074	8.889381852	0.384597115	-1.37858
MOK	479.8800935	184.4546734	0.384376589	-1.379408
ZFP91	133.1777324	51.11394565	0.383802493	-1.381564
PCGF3-AS1	55.03212081	21.1122819	0.383635622	-1.382191
MS4A14	237.7387619	91.11616398	0.383261708	-1.383598
SEMA3E	269.657392	103.339064	0.383223554	-1.383742
C14orf132	63.83726015	24.44580009	0.382939369	-1.384812
ZMYND10	31.91863007	12.22290005	0.382939369	-1.384812
ATP1A1-AS1	159.5931504	61.11450023	0.382939369	-1.384812
VEZF1	3337.147806	1277.848641	0.382916405	-1.384899
ZNF394	819.9786001	313.3507103	0.382144986	-1.387808
SENP6	2349.871559	897.827567	0.382075166	-1.388072
PATL2	40.7237694	15.55641824	0.381998486	-1.388361
ZMAT1	1127.057834	430.0238471	0.381545502	-1.390073
ZP3	99.05781747	37.77987287	0.381392139	-1.390653
ZNF8	49.52890873	18.88993643	0.381392139	-1.390653
RPAP3	1168.882246	445.5802653	0.381202013	-1.391372
PCDH9	551.4218506	210.0116462	0.380854778	-1.392687
GNAI1	201.4175622	76.67091847	0.380656571	-1.393438
LPIN3	298.2740948	113.3396186	0.379984788	-1.395986
QPCT	102.3597447	38.8910456	0.37994473	-1.396139
RET	585.5417655	222.2345463	0.379536626	-1.397689
ARHGAP9	146.3854414	55.55863657	0.379536626	-1.397689
SCD	731.9272068	277.7931829	0.379536626	-1.397689
ACTN1	3750.989355	1423.412269	0.379476489	-1.397918
ZNF655	673.5931588	255.5697282	0.379412595	-1.398161
MITD1	416.0428334	157.7865279	0.379255488	-1.398758
ADAMTS6	79.24625397	30.00166375	0.378587785	-1.4013
PLEKHA8P1	35.22055732	13.33407278	0.378587785	-1.4013
LRRN3	35.22055732	13.33407278	0.378587785	-1.4013
MINDY4	17.61027866	6.667036389	0.378587785	-1.4013
DOK7	17.61027866	6.667036389	0.378587785	-1.4013
CCDC125	17.61027866	6.667036389	0.378587785	-1.4013
IGLV1-47	17.61027866	6.667036389	0.378587785	-1.4013
ISY1	17.61027866	6.667036389	0.378587785	-1.4013
ENSG000002	17.61027866	6.667036389	0.378587785	-1.4013
ENSG000002	17.61027866	6.667036389	0.378587785	-1.4013
NMU	8.80513933	3.333518194	0.378587785	-1.4013
ERMN	8.80513933	3.333518194	0.378587785	-1.4013
HINT2	8.80513933	3.333518194	0.378587785	-1.4013
CABS1	8.80513933	3.333518194	0.378587785	-1.4013
UGT3A1	8.80513933	3.333518194	0.378587785	-1.4013
MFHAS1	8.80513933	3.333518194	0.378587785	-1.4013
ARHGAP27	8.80513933	3.333518194	0.378587785	-1.4013
TAS1R3	8.80513933	3.333518194	0.378587785	-1.4013
IZUMO3	8.80513933	3.333518194	0.378587785	-1.4013
SKOR2	8.80513933	3.333518194	0.378587785	-1.4013
HSPA5P1	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
SLC44A3-AS	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
ASH1L-AS1	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
LIFR-AS1	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
ENSG000002	8.80513933	3.333518194	0.378587785	-1.4013
ROCK1P1	8.80513933	3.333518194	0.378587785	-1.4013
ARL5A	61.63597531	23.33462736	0.378587785	-1.4013
PDGFC	413.8415485	156.6753551	0.378587785	-1.4013
ALDOA	26.41541799	10.00055458	0.378587785	-1.4013
RSPH10B2	26.41541799	10.00055458	0.378587785	-1.4013
LRRC57	26.41541799	10.00055458	0.378587785	-1.4013
MSANTD1	26.41541799	10.00055458	0.378587785	-1.4013
ARMCX2	346.7023611	131.1183823	0.378187163	-1.402828
RFTN1	367.614567	138.8965914	0.377832121	-1.404183
PTPN21	1557.409019	587.8103749	0.377428388	-1.405725
RPL14	933.344769	352.2417559	0.377397257	-1.405844
FAM200A	344.5010763	130.0072096	0.377378239	-1.405917
EMILIN2	226.7323378	85.56030032	0.377362582	-1.405977
LCK	91.35332055	34.44635467	0.377067352	-1.407106
VSTM4	173.9015018	65.55919115	0.376990368	-1.4074
TMX4	686.8008678	258.9032464	0.376969888	-1.407479
ZNF485	82.54818122	31.11283648	0.376905172	-1.407727
NAA60	1021.396162	384.4657651	0.376411993	-1.409615
PLK2	596.5481896	224.4568918	0.376259447	-1.4102
CD48	112.2655265	42.22456379	0.376113355	-1.410761
NPR1	35.68254093	36.66870014	0.97310624	-0.039331
BEND7	489.5976547	503.3612473	0.97265663	-0.039998
GALNT6	46.47028587	47.78042745	0.972579953	-0.040111
MBP	182.5618373	187.7881916	0.972168888	-0.040721
BRINP1	250.6076131	257.7920737	0.972130793	-0.040778
YY1AP1	1594.926597	1641.202124	0.971803883	-0.041263
DIPK1A	200.8180211	206.678128	0.971646216	-0.041497
NCAPH2	301.2270316	310.0171921	0.971646216	-0.041497
C1orf198	588.3470122	605.5891386	0.971528343	-0.041672
DDX27	663.8612267	683.3712298	0.971450359	-0.041788
FAM227A	132.7722453	136.674246	0.971450359	-0.041788
DEUP1	10.78774493	11.11172731	0.970843203	-0.04269
BAG6	10.78774493	11.11172731	0.970843203	-0.04269
TYRO3P	10.78774493	11.11172731	0.970843203	-0.04269
ADAMTS9	258.9058784	266.6814555	0.970843203	-0.04269
PLOD1	2143.441936	2207.900217	0.970805618	-0.042746
JMY	489.5976547	504.4724201	0.970514215	-0.043179
FCER1G	104.5581432	107.7837549	0.970073303	-0.043834
ZNF320	627.3488592	646.7025297	0.970073303	-0.043834
COPA	4475.254494	4613.589181	0.97001582	-0.04392
PLEKHA8	187.5407965	193.3440553	0.969984809	-0.043966
BAIAP2L1	545.1960324	562.2534021	0.969662487	-0.044445
TBL1X	531.0889814	547.8081566	0.969479872	-0.044717
GUSB	798.2931251	824.4901667	0.968226375	-0.046584
JTB	29.04392867	30.00166375	0.968077268	-0.046806
IGFBP4	374.2517665	386.6881105	0.967838825	-0.047161
RPL23AP42	47.3001124	48.89160018	0.967448646	-0.047743
RAPGEF4	225.7128171	233.3462736	0.967287001	-0.047984
CCDC87	120.3248473	124.4513459	0.966842475	-0.048647
RNF103	988.3234012	1022.278913	0.966784494	-0.048734
SLC4A1AP	551.0048182	570.0316112	0.966621512	-0.048977
ZNF880	620.710247	642.2578388	0.966450247	-0.049233
EYS	54.7685512	56.6698093	0.966450247	-0.049233
CXCL10	18.25618373	18.88993643	0.966450247	-0.049233
NUDT3	190.0302761	196.6775735	0.966202057	-0.049603
EDEM3	1130.223738	1170.064886	0.965949625	-0.04998
NMNAT2	142.7301637	147.7859733	0.965789652	-0.050219
CD83	131.9424188	136.674246	0.965378794	-0.050833
ZFAT	641.4559103	664.4812934	0.965348335	-0.050878
BAZ2B	4156.601106	4306.905507	0.965101533	-0.051247
ABCG2	69.7054288	72.22622754	0.965098568	-0.051252
CHTF18	260.5655315	270.0149737	0.965004007	-0.051393
CCDC97	286.290154	296.6831193	0.964969475	-0.051445
STT3A	2126.845405	2204.566699	0.96474532	-0.05178
NOP14-AS1	25.72462253	26.66814555	0.964619849	-0.051968
TAF1	3128.446031	3243.513203	0.964523908	-0.052111
GIGYF2	1979.136282	2053.447208	0.963811621	-0.053177
PXK	165.9653067	172.2317734	0.963616082	-0.05347
FABP4	33.19306133	34.44635467	0.963616082	-0.05347
ODAD3	33.19306133	34.44635467	0.963616082	-0.05347
TMEM184C	870.4880335	903.3834307	0.963586451	-0.053514
APTX	492.0871343	511.1394565	0.962725785	-0.054803
ZNF460	1539.328219	1598.977561	0.962695323	-0.054849
PHKA2	1498.666719	1556.752997	0.962687544	-0.05486
RAB3GAP1	1037.283167	1077.837549	0.962374309	-0.05533
DCTN2	518.6415834	538.9187747	0.962374309	-0.05533
PEX14	159.3266944	165.564737	0.962322638	-0.055407
HDAC1	1389.959443	1445.635724	0.961486646	-0.056661
PPP1R9B	550.1749916	572.2539567	0.961417541	-0.056765
TAPT1	416.5729197	433.3573653	0.961268812	-0.056988
PARVB	107.8774493	112.2284459	0.961230894	-0.057045
RPS19	1226.483616	1276.737468	0.960638852	-0.057934
KHDC4	1021.516463	1063.392304	0.960620515	-0.057961
LARS1	1765.870863	1838.990871	0.960239059	-0.058534
RNASET2	224.053164	233.3462736	0.960174596	-0.058631
SH3BGRL2	171.7740924	178.8988098	0.960174596	-0.058631
SLC35G1	104.5581432	108.8949277	0.960174596	-0.058631
GDF7	7.4684388	7.77820912	0.960174596	-0.058631
GDNF	7.4684388	7.77820912	0.960174596	-0.058631
DSG4	7.4684388	7.77820912	0.960174596	-0.058631
FOXD4L1	7.4684388	7.77820912	0.960174596	-0.058631
PPIAP19	7.4684388	7.77820912	0.960174596	-0.058631
ENSG000002	7.4684388	7.77820912	0.960174596	-0.058631
LYST	2057.139976	2143.452199	0.959732145	-0.059296
PTGES2	314.5042561	327.7959558	0.959451301	-0.059719
RBM15B	767.5895434	800.0443666	0.959433721	-0.059745
XRN1	1735.167281	1808.989207	0.959191616	-0.060109
COL13A1	108.7072759	113.3396186	0.959128654	-0.060204
SUPT6H	2545.907804	2654.591655	0.959058166	-0.06031
PBX3	1464.643831	1527.862506	0.958622799	-0.060965
SHQ1	270.5234499	282.2378738	0.958494501	-0.061158
METTL15	176.7530516	184.4546734	0.958246535	-0.061531
POLR3A	1204.0783	1256.736359	0.958099359	-0.061753
ZNF10	365.1236747	381.1322469	0.957997329	-0.061906
XRCC1	444.7870219	464.4702017	0.957622298	-0.062471
GSKIP	131.9424188	137.7854187	0.957593482	-0.062515
IL6ST	4091.874636	4274.681498	0.957234975	-0.063055
CHD9	2429.73209	2539.029691	0.956953004	-0.06348
YRDC	155.1775617	162.2312188	0.956520964	-0.064132
SVIL	3773.221247	3947.996715	0.955730594	-0.065324
PDPR	778.3772883	814.4896121	0.955662634	-0.065427
PHC3	2548.397284	2666.814555	0.955595986	-0.065527
CIAO2B	235.6707355	246.6803464	0.955368917	-0.06587
RUSC1-AS1	110.3669289	115.5619641	0.955045458	-0.066359
AP1G1	1172.544892	1227.845868	0.954960978	-0.066486
HEXIM1	457.2344199	478.9154472	0.954728904	-0.066837
RNFT2	198.3285415	207.7893008	0.954469459	-0.067229
PTPN6	293.7585928	307.7948466	0.954397372	-0.067338
PPP2R5A	534.4082875	560.0310566	0.954247592	-0.067564
ACSF3	209.9461129	220.0122008	0.954247592	-0.067564
CEP19	76.34404107	80.00443666	0.954247592	-0.067564
AP3D1	3298.625322	2774.939928	0.841241322	-0.249408
DAP3	742.933631	624.8593796	0.841070257	-0.249702
LIMD2	28.61670282	24.06496947	0.840941377	-0.249923
FBXL12	124.372593	104.5581432	0.840684757	-0.250363
KDM4C	1582.723795	1330.211933	0.840457405	-0.250753
MAP1B	8517.87166	7157.25385	0.840263171	-0.251087
ZMAT5	77.04496914	64.7264696	0.840112863	-0.251345
RHOQ	780.3554732	655.5629614	0.84008248	-0.251397
HK1	2681.164926	2252.149212	0.839989062	-0.251558
RRP9	125.4732355	105.3879697	0.839923904	-0.251669
ATP6V1E1	501.8929418	421.551879	0.839923904	-0.251669
MORC3	1332.877966	1119.435994	0.83986383	-0.251773
SLC25A38	425.9486151	357.6552359	0.839667564	-0.25211
OXA1L	971.8672536	815.7194823	0.839332202	-0.252686
EXPH5	1879.897247	1577.50024	0.839141736	-0.253014
STXBP2	68.23982981	57.2580308	0.839070539	-0.253136
ZNF417	624.06425	523.6205426	0.839049092	-0.253173
IFT22	244.3426164	204.9671537	0.838851432	-0.253513
PRKAB1	352.2055732	295.4182459	0.838766528	-0.253659
PUM3	1830.368338	1535.179087	0.838726859	-0.253727
ZNF793	343.4004339	287.9498071	0.838524878	-0.254075
RARS2	677.9957284	568.4311754	0.838399346	-0.254291
IMPACT	335.695937	281.3111948	0.837994041	-0.254988
TET3	750.6381279	629.0085123	0.837965045	-0.255038
DIS3	1403.319081	1175.864198	0.837916489	-0.255122
RHOH	29.71734524	24.894796	0.837719379	-0.255461
THEM4	108.9635992	91.28091867	0.837719379	-0.255461
RRAS2P1	19.81156349	16.59653067	0.837719379	-0.255461
PRPF31	9.905781747	8.298265334	0.837719379	-0.255461
FGF12	9.905781747	8.298265334	0.837719379	-0.255461
ATP10B	9.905781747	8.298265334	0.837719379	-0.255461
CDR2	9.905781747	8.298265334	0.837719379	-0.255461
SLC39A12	9.905781747	8.298265334	0.837719379	-0.255461
ALPP	9.905781747	8.298265334	0.837719379	-0.255461
METTL15P1	9.905781747	8.298265334	0.837719379	-0.255461
RGS6	9.905781747	8.298265334	0.837719379	-0.255461
GPAT2	9.905781747	8.298265334	0.837719379	-0.255461
CCDC73	9.905781747	8.298265334	0.837719379	-0.255461
OTOG	9.905781747	8.298265334	0.837719379	-0.255461
ADGRA1	9.905781747	8.298265334	0.837719379	-0.255461
NT5C3AP1	9.905781747	8.298265334	0.837719379	-0.255461
ARHGAP27P	9.905781747	8.298265334	0.837719379	-0.255461
SPAG5-AS1	9.905781747	8.298265334	0.837719379	-0.255461
MIR646HG	9.905781747	8.298265334	0.837719379	-0.255461
TRHDE-AS1	9.905781747	8.298265334	0.837719379	-0.255461
LINC01301	9.905781747	8.298265334	0.837719379	-0.255461
TTC36-AS1	9.905781747	8.298265334	0.837719379	-0.255461
CNPY2-AS1	9.905781747	8.298265334	0.837719379	-0.255461
ENSG000002	9.905781747	8.298265334	0.837719379	-0.255461
ABCF3	457.8672452	383.3798584	0.837316629	-0.256155
AMMECR1L	219.0278408	183.3916639	0.837298415	-0.256186
PGBD2	309.280519	258.9058784	0.837123137	-0.256488
KMT5A	299.3747372	250.6076131	0.837103409	-0.256522
YTHDF1	1307.563191	1094.541198	0.837084743	-0.256554
PRPF6	1627.850134	1362.575168	0.837039688	-0.256632
TSHZ3	932.2441266	780.0369414	0.836730336	-0.257165
TOM1L1	1319.670257	1103.669289	0.836322016	-0.25787
GMEB2	181.6059987	151.8582556	0.836196253	-0.258087
PABPC1L	505.1948691	422.3817055	0.836076792	-0.258293
AFTPH	1333.978609	1115.286861	0.836060529	-0.258321
MMS19	333.4946521	278.8217152	0.836060529	-0.258321
NADK	272.9593192	228.2022967	0.836030429	-0.258373
SEMA4F	91.35332055	76.34404107	0.835700778	-0.258942
PLEKHB2	264.1541799	220.7338579	0.835625081	-0.259072
INTS12	498.5910146	416.5729197	0.835500255	-0.259288
SLC33A1	40.7237694	34.02288787	0.835455273	-0.259366
ANKRD34B	40.7237694	34.02288787	0.835455273	-0.259366
PODXL	999.383314	834.8054926	0.835320623	-0.259598
ZC3HAV1L	183.8072835	153.5179087	0.835211237	-0.259787
PRKAR1A	3161.04502	2639.678203	0.835065045	-0.26004
SLC1A3	235.5374771	196.6688884	0.834979175	-0.260188
DSTYK	472.1755966	394.1676033	0.83479029	-0.260514
SH3BGRL2	205.8201318	171.7740924	0.834583531	-0.260872
MRAS	144.1841565	120.3248473	0.834521977	-0.260978
ETFBKMT	82.54818122	68.87560227	0.834368502	-0.261243
LAPTM4A	1857.884399	1550.115964	0.83434468	-0.261285
ARHGEF18	496.3897298	414.0834401	0.834190184	-0.261552
UNK	693.4047223	578.3890938	0.834129153	-0.261657
TRAPPC6B	507.3961539	423.211532	0.834085022	-0.261734
TMEM8B	248.7451861	207.4566333	0.834012656	-0.261859
MORF4L1	1619.044994	1350.12777	0.833903798	-0.262047
GNPDA1	166.1970049	138.5810311	0.833835912	-0.262165
CIZ1	2636.038587	2197.38066	0.833591993	-0.262587
GTF2IP4	219.0278408	182.5618373	0.833509734	-0.262729
RBM39	4623.798791	3853.714421	0.833452015	-0.262829
PSPN	20.91220591	17.4263572	0.83331033	-0.263074
MEI1	20.91220591	17.4263572	0.83331033	-0.263074
GPC5	20.91220591	17.4263572	0.83331033	-0.263074
PNP	20.91220591	17.4263572	0.83331033	-0.263074
FRMD4A	956.4582598	796.633472	0.83289936	-0.263786
NFATC1	296.07281	246.4584804	0.832425242	-0.264607
RABEP2	190.411138	158.4968679	0.83239284	-0.264664
MALAT1	24285.67492	20213.74453	0.832332006	-0.264769
ESS2	180.5053563	150.1986025	0.83210053	-0.26517
ALKBH3	373.1177791	310.3551235	0.831788622	-0.265711
GOLPH3L	714.3169282	594.1557979	0.831781769	-0.265723
CYP2E1	267.4561072	222.3935109	0.83151405	-0.266187
SEC61A1	2376.286977	1975.816976	0.831472375	-0.26626
HACL1	706.6124313	587.5171856	0.831456057	-0.266288
MBTPS1	2101.126373	1746.784853	0.831356398	-0.266461
RBM26	2554.591048	2123.526099	0.831258725	-0.266631

ACOT9	369.8158519	138.8965914	0.37558312	-1.412796
FAM174B	550.3212081	206.678128	0.375559083	-1.412888
MTERF1	308.1798766	115.5619641	0.374982187	-1.415106
MIX23	77.04496914	28.89049102	0.374982187	-1.415106
DUOXA1	38.52248457	14.44524551	0.374982187	-1.415106
API5P2	38.52248457	14.44524551	0.374982187	-1.415106
IQUB	260.8522527	97.78320037	0.374860479	-1.415574
NFAT5	5170.818072	1936.774071	0.374558541	-1.416737
ZNF248	822.179885	307.7948466	0.37436436	-1.417485
CCNT2	1315.267687	492.24952	0.37425805	-1.417895
TMEM97	314.7837311	117.7843095	0.37417534	-1.418214
PSTPIP2	157.3918655	58.89215477	0.37417534	-1.418214
RMRP	1485.867262	555.5863657	0.373913862	-1.419222
DAPP1	29.71734524	11.11172731	0.373913862	-1.419222
GBP1P1	29.71734524	11.11172731	0.373913862	-1.419222
UBLCP1	526.107075	196.6775735	0.373835637	-1.419524
ZNF888	829.8843819	310.0171921	0.373566727	-1.420562
TIMP3	2061.503246	770.0427029	0.373534558	-1.420686
PROSER1	1785.241999	666.7036389	0.373452809	-1.421002
NGFR	80.34689639	30.00166375	0.373401651	-1.4212
IFI44L	232.2355498	86.67147305	0.37320502	-1.42196
NOMO3	50.62955115	18.88993643	0.373101005	-1.422362
SELPLG	253.1477557	94.44968217	0.373101005	-1.422362
SERPINE1	172.8008594	64.44801842	0.372961215	-1.422902
RORA	1183.190598	441.1355744	0.372835598	-1.423388
ZNF143	301.5760221	112.2284459	0.372139818	-1.426083
RNF138P1	125.4732355	46.66925472	0.371945894	-1.426835
PHYHD1	41.82441182	15.55641824	0.371945894	-1.426835
RAB33B-AS1	41.82441182	15.55641824	0.371945894	-1.426835
PCK2	20.91220591	7.77820912	0.371945894	-1.426835
COX7A1	20.91220591	7.77820912	0.371945894	-1.426835
TMEM121B	20.91220591	7.77820912	0.371945894	-1.426835
BAZ1B	4365.147823	1622.312188	0.371651145	-1.427979
GNB4	137.580302	51.11394565	0.371520813	-1.428485
PRPF40A	2022.980761	751.1527665	0.371309891	-1.429304
SLC41A2	457.8672452	170.0094279	0.371307251	-1.429315
RAB3A	224.5310529	83.33795486	0.371164495	-1.429869
NOD1	215.7259136	80.00443666	0.370861504	-1.431048
BIN2	215.7259136	80.00443666	0.370861504	-1.431048
SEC24A	1538.698098	570.0316112	0.370463583	-1.432596
DECR1	954.2569749	353.3529286	0.370291167	-1.433268
VRK1	210.2227015	77.7820912	0.369998533	-1.434409
MYO1E	1351.588887	500.0277291	0.36995549	-1.434576
PRPF4B	2240.90796	828.9348577	0.369910265	-1.434753
FYTTD1	1066.522501	394.4663197	0.369862163	-1.43494
IK	1036.805156	383.3545923	0.369746032	-1.435393
MYO9A	4974.903722	1838.990871	0.36965356	-1.435754
ANP32A	1798.449708	664.4812934	0.369474493	-1.436453
PRKAG1	45.12633907	16.66759097	0.369353936	-1.436924
FIGNL1	315.8843735	116.6731368	0.369353936	-1.436924
IGFBP4	1047.81158	386.6881105	0.369043555	-1.438137
HIPK2	9124.325631	3366.853376	0.368997503	-1.438317
PUS7L	865.1049392	318.9065739	0.368633399	-1.439741
POTEG	150.788011	55.55863657	0.368455265	-1.440439
FAXC	81.44753881	30.00166375	0.368355683	-1.440829
EPSTI1	93.55460539	34.44635467	0.368195179	-1.441457
DENND2B	1288.852269	474.4707563	0.368134322	-1.441696
NPM1	926.7409145	341.1300286	0.368096437	-1.441844
LIN9	169.4989321	62.22567296	0.367115428	-1.445694
POLE2	84.74946605	31.11283648	0.367115428	-1.445694
CST7	48.42826632	17.7787637	0.367115428	-1.445694
AFG3L1P	24.21413316	8.889381852	0.367115428	-1.445694
ENSG000002	24.21413316	8.889381852	0.367115428	-1.445694
TPH2	12.10706658	4.444690926	0.367115428	-1.445694
IMPDH2	12.10706658	4.444690926	0.367115428	-1.445694
ZNF707	12.10706658	4.444690926	0.367115428	-1.445694
LINC00654	12.10706658	4.444690926	0.367115428	-1.445694
AURKAP2	12.10706658	4.444690926	0.367115428	-1.445694
ENSG000002	12.10706658	4.444690926	0.367115428	-1.445694
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ENSG000002	12.10706658	4.444690926	0.367115428	-1.445694
PPHLN1	578.937911	212.2339917	0.366591974	-1.447753
PECAM1	1209.606016	443.3579198	0.366530849	-1.447993
KDR	1024.69809	375.5763832	0.366523942	-1.448021
PAK6	88.0513933	32.22400921	0.365968192	-1.45021
GPR65	88.0513933	32.22400921	0.365968192	-1.45021
PTPRK	479.8800935	175.5652916	0.365852416	-1.450666
DYRK3	291.6702403	106.6725822	0.365730086	-1.451149
SLC29A1	279.5631737	102.2278913	0.365670091	-1.451385
AKAP9	6807.473345	2489.026918	0.365631534	-1.451538
CHI3L2	63.83726015	23.33462736	0.365533034	-1.451926
ZNHIT6	462.2698148	168.8982552	0.365367259	-1.452581
RN7SKP203	51.73019357	18.88993643	0.365162686	-1.453389
AMMECR1	246.5439013	90.00499125	0.365066793	-1.453768
MISP	130.9764475	47.78042745	0.364801675	-1.454816
RFX7	2703.177774	983.3878673	0.363789565	-1.458824
IKBIP	204.7194894	74.44857301	0.363661385	-1.459332
NFU1	342.2997915	124.4513459	0.363574121	-1.459679
WHAMM	302.6766645	110.0661004	0.363444273	-1.460194
KCTD7	110.0642416	40.00221833	0.363444273	-1.460194
HOXA10-AS	27.51606041	10.00055458	0.363444273	-1.460194
ENSG000002	27.51606041	10.00055458	0.363444273	-1.460194
ENSG000002	27.51606041	10.00055458	0.363444273	-1.460194
PLCL1	648.2783832	235.5686191	0.363375712	-1.460466
FRK	152.9892959	55.55863657	0.36315375	-1.461348
H2BC11	152.9892959	55.55863657	0.36315375	-1.461348
FOXP2	97.95717505	35.55752741	0.362990535	-1.461996
NRK	113.3661689	41.11339106	0.362660143	-1.46331
CTNNBL1	854.098515	308.9060193	0.361674928	-1.467235
CMKLR1	282.865101	102.2278913	0.361401569	-1.468325
MALAT1	24285.67492	8776.042233	0.361367031	-1.468463
RPS24P19	38.17202053	40.00221833	0.954247592	-0.067564
GNG4	286.290154	300.0166375	0.954247592	-0.067564
SGTA	523.6205426	548.9193293	0.953911649	-0.068072
FMNL2	991.6427074	1040.057677	0.953449727	-0.068771
MAGT1	992.4725339	1041.168849	0.953229185	-0.069105
TMUB1	210.7759395	221.1233736	0.953205155	-0.069141
ZNF792	283.8006744	297.794292	0.953009114	-0.069438
NDUFS8	967.5777379	1015.611877	0.952704237	-0.0699
ZNF721	1028.155075	1080.059895	0.951942647	-0.071053
BRAP	539.3872467	566.698093	0.951807062	-0.071259
ZFC3H1	1803.213057	1894.549507	0.951789885	-0.071285
WIPI2	582.5382264	612.256175	0.951461578	-0.071783
TMEM127	374.2517665	393.3551469	0.951434777	-0.071823
PTBP1	2071.247027	2177.898554	0.951030076	-0.072437
ISM2	23.23514293	24.44580009	0.950475863	-0.073278
SLC30A8	11.61757147	12.22290005	0.950475863	-0.073278
UGT2B7	11.61757147	12.22290005	0.950475863	-0.073278
ENSG000002	11.61757147	12.22290005	0.950475863	-0.073278
SNUPN	127.7932861	134.4519005	0.950475863	-0.073278
DHX29	736.0561351	774.4873938	0.950378458	-0.073426
IRGQ	329.4411337	346.6858922	0.950258263	-0.073608
GUCD1	178.4127047	187.7881916	0.95007414	-0.073888
TMEM50A	1055.53935	1111.172731	0.949932734	-0.074103
NKIRAS2	326.1218276	343.352374	0.949816726	-0.074279
TIPARP	419.8922259	442.2467471	0.949452378	-0.074832
RPL32	2963.310551	3121.284203	0.949388251	-0.07493
UMAD1	62.23699	65.55919115	0.949325166	-0.075026
ADAMTS5	50.61941854	53.33629111	0.949061464	-0.075427
GALNT14	50.61941854	53.33629111	0.949061464	-0.075427
PCID2	296.2480724	312.2395375	0.948784625	-0.075847
AKNA	503.7047058	531.1405656	0.948345388	-0.076516
PSMA7	1863.790394	1965.664562	0.948173168	-0.076778
ZNF594-DT	27.3842756	28.89049102	0.947864665	-0.077247
PIK3C2A	2077.88564	2192.343799	0.947791875	-0.077358
TFB2M	238.9900416	252.23621	0.947485064	-0.077825
JPH1	466.3625118	492.24952	0.9474108	-0.077938
GPAM	517.8117568	546.6969839	0.9471641	-0.078314
NFYC	667.1805328	704.4835117	0.947049181	-0.078489
KXD1	349.3569705	368.9093468	0.94699951	-0.078564
SLC16A10	102.0686636	107.7837549	0.94697632	-0.0786
KICS2	58.91768387	62.22567296	0.946838838	-0.078809
RPL10P9	487.1081751	514.4729747	0.946810035	-0.078853
CCDC88B	133.6020719	141.1189369	0.946733832	-0.078969
SH3RF3	224.053164	236.6797918	0.94665101	-0.079095
SIGMAR1	318.6533888	336.6853376	0.946442726	-0.079413
CHMP1A	365.9535012	386.6881105	0.946378984	-0.07951
ZNF417	523.6205426	553.3640203	0.946249708	-0.079707
PTCD1	15.76670413	16.66759097	0.945949787	-0.080164
HAPLN3	15.76670413	16.66759097	0.945949787	-0.080164
ENSG000002	15.76670413	16.66759097	0.945949787	-0.080164
ATP6AP2	2150.910374	2274.570581	0.945633603	-0.080647
AVL9	410.764134	434.468538	0.945440459	-0.080941
NBAS	3888.567135	4113.561452	0.945304253	-0.081149
TTC23L	67.2159492	71.11505481	0.945171868	-0.081351
PPP1R26	941.0232888	995.6107674	0.945171868	-0.081351
COQ5	288.7796336	305.5725011	0.945044572	-0.081546
ITSN1	1769.190169	1872.326052	0.944915639	-0.081743
ZNF91	2133.484017	2257.90299	0.944896227	-0.081772
NCOR1	8025.252404	8494.915532	0.944712443	-0.082053
SCNN1B	146.8792964	155.5641824	0.944171686	-0.082879
MLXIPL	55.59837774	58.89215477	0.944071039	-0.083033
LCMT1	497.0660935	526.6958747	0.943744042	-0.083532
POGZ	4716.734016	4998.054946	0.943713918	-0.083579
MFN2	1249.718759	1324.517896	0.943527274	-0.083864
CTR9	664.6910532	704.4835117	0.943515415	-0.083882
POLG2	278.8217152	295.5719466	0.943329428	-0.084166
ERICH3	59.7475104	63.33684569	0.943329428	-0.084166
ATP6V1E2	59.7475104	63.33684569	0.943329428	-0.084166
MIR3667HG	19.9158368	21.1122819	0.943329428	-0.084166
STARD3NL	258.9058784	274.4596647	0.943329428	-0.084166
STK39	1009.898891	1071.170513	0.942799376	-0.084977
TAB3	1722.719883	1827.879143	0.942469249	-0.085483
ZNF789	156.0073883	165.564737	0.942274249	-0.085781
MED13	5061.112027	5371.408984	0.942231739	-0.085846
BAHCC1	160.1565209	170.0094279	0.942044938	-0.086132
JARID2	609.0926755	646.7025297	0.941843657	-0.08644
ENSG000002	332.7604399	353.3529286	0.941722604	-0.086626
ITPR3	3756.624717	3989.110106	0.941719987	-0.08663
NHERF1	345.2078379	366.6870014	0.941423712	-0.087084
L3MBTL3	148.5389495	157.7865279	0.941391838	-0.087133
ZFP28	405.7851748	431.1350198	0.941202074	-0.087424
SLC25A38	357.6552359	380.0210742	0.941145795	-0.08751
CYP2R1	160.9863475	171.1206006	0.94077713	-0.088075
EHHADH	499.5555731	531.1405656	0.940533647	-0.088449
RPL37AP1	28.21410213	30.00166375	0.940417917	-0.088626
DEPDC5	225.7128171	240.01331	0.940417917	-0.088626
PPP2R5D	439.8080627	467.8037199	0.94015512	-0.089029
CCNG1	391.6781237	416.6897743	0.939975368	-0.089305
ZNF277	214.0952456	227.7904099	0.939878223	-0.089454
CAMK1	64.7264696	68.89270935	0.93952568	-0.089995
SDHAF1	32.3632348	34.44635467	0.93952568	-0.089995
B4GALT2	214.9250721	228.9015827	0.938940962	-0.090894
ZNF136	255.5865723	272.2373192	0.938837383	-0.091053
RANGAP1	495.4064404	527.8070474	0.938612781	-0.091398
ZNF586	385.869338	411.1339106	0.938549042	-0.091496
ZYG11A	195.0092353	207.7893008	0.938495075	-0.091579
RABGAP1L	1985.774894	2116.784053	0.938109341	-0.092172
BMP2K	972.5566971	1036.724158	0.93810556	-0.092178
SLC29A3	219.9040313	234.4574463	0.937927265	-0.092452
ANKRD11	2761.662703	2944.607738	0.937871169	-0.092538
BLOC1S3	44.8106328	47.78042745	0.937844954	-0.092579
MKRN1	1331.777324	1106.988596	0.831211476	-0.266713
EPHA2	172.8008594	143.5599903	0.830782849	-0.267457
UBC	10756.57833	8933.912458	0.830553377	-0.267855
PCGF1	75.94432672	63.06681654	0.830434863	-0.268061
PLAUR	86.95075089	72.1949084	0.830296549	-0.268301
SLC2A4RG	533.8115719	443.1273688	0.830119451	-0.268609
SH2B1	545.9186385	453.0852872	0.829950207	-0.268903
NVL	961.9614718	798.2931251	0.829859769	-0.269061
MSN	1876.59532	1556.754577	0.829563284	-0.269576
ATL2	1229.417579	1019.85681	0.829544678	-0.269608
NFATC2	505.1948691	419.0623993	0.829506444	-0.269675
PCGF3-AS1	55.03212081	45.64045934	0.829342185	-0.269961
HOXD3	44.02569665	36.51236747	0.829342185	-0.269961
ANKHD1	22.01284833	18.25618373	0.829342185	-0.269961
TMEM17	22.01284833	18.25618373	0.829342185	-0.269961
NPEPL1	22.01284833	18.25618373	0.829342185	-0.269961
COL9A3	11.00642416	9.128091867	0.829342185	-0.269961
TBC1D30	11.00642416	9.128091867	0.829342185	-0.269961
TRPV3	11.00642416	9.128091867	0.829342185	-0.269961
IHO1	11.00642416	9.128091867	0.829342185	-0.269961
NUFIP1P1	11.00642416	9.128091867	0.829342185	-0.269961
GOT1-DT	11.00642416	9.128091867	0.829342185	-0.269961
ST13P4	11.00642416	9.128091867	0.829342185	-0.269961
KIF23-AS1	11.00642416	9.128091867	0.829342185	-0.269961
ENSG000002	11.00642416	9.128091867	0.829342185	-0.269961
ENSG000002	11.00642416	9.128091867	0.829342185	-0.269961
NUDT16L1	66.03854498	54.7685512	0.829342185	-0.269961
ENSG000002	77.04496914	63.89664307	0.829342185	-0.269961
CRADD	111.164884	92.1107452	0.828595703	-0.27126
OSBP2	111.164884	92.1107452	0.828595703	-0.27126
ZNF25	578.937911	479.6397363	0.828482169	-0.271457
PRR12	1736.813733	1438.919209	0.828482169	-0.271457
GRINA	2162.762348	1791.595486	0.828382965	-0.27163
LARS2	345.6017187	286.290154	0.828381743	-0.271632
LUC7L	736.3297765	609.922502	0.828327906	-0.271726
PCNX2	1953.640289	1618.16174	0.828280287	-0.271809
YJU2	145.284799	120.3248473	0.828199841	-0.271949
GARS1	1477.062123	1223.16431	0.828106206	-0.272112
CCZ1B	335.695937	277.9918887	0.828106206	-0.272112
SUSD4	179.4047139	148.5389495	0.827954552	-0.272377
TBC1D32	462.2698148	382.5500319	0.827547072	-0.273087
ATRX	10789.59761	8923.95454	0.827088726	-0.273886
ATF4	1337.280536	1105.328942	0.826549787	-0.274826
H2AZ2P1	57.23340565	47.3001124	0.826442387	-0.275014
MYH3	423.7473303	350.1867971	0.826404728	-0.27508
ZNG1B	641.6745287	530.2591548	0.826367779	-0.275144
POGZ	5710.132856	4716.734016	0.826028769	-0.275736
ZDHHC16	322.488228	266.3743172	0.825997026	-0.275792
MTIF3	461.1691724	380.8903788	0.82592333	-0.27592
RIC1	1303.160621	1076.285014	0.825903574	-0.275955
ANKRD24	46.22698148	38.17202053	0.825751959	-0.27622
FBF1	46.22698148	38.17202053	0.825751959	-0.27622
GRIK4	23.11349074	19.08601027	0.825751959	-0.27622
CRELD2	323.5888704	267.2041437	0.825751959	-0.27622
FAM106C	161.7944352	133.6020719	0.825751959	-0.27622
NOC3L	266.3554647	219.9040313	0.825603603	-0.276479
LAMB1	2496.257	2059.629456	0.825087103	-0.277382
TAF10	58.33404806	48.12993894	0.825074558	-0.277404
QDPR	151.8886534	125.3038065	0.824971475	-0.277584
ARHGEF12	3287.618897	2711.873111	0.824874536	-0.277753
ADGRE5	386.3254881	318.6533888	0.824831389	-0.277829
FLACC1	35.22055732	29.04392867	0.824630014	-0.278181
NDRG1	3902.878008	3218.067296	0.824536993	-0.278344
NUDT12	188.2098532	155.1775617	0.824492231	-0.278422
FAM50A	400.6338395	330.2709603	0.824371103	-0.278634
RPL37	1403.319081	1156.778188	0.824315869	-0.278731
RPLP2	1040.107083	857.210809	0.824156303	-0.27901
ACER3	355.5075005	292.9287663	0.823973519	-0.27933
ZNF641	297.1734524	244.7988273	0.823757389	-0.279709
ZFYVE27	130.9764475	107.8774493	0.823640062	-0.279914
CUL4A	947.6531204	780.0369414	0.823124965	-0.280817
DCTN4	900.3254965	741.0350943	0.823074652	-0.280905
ZZEF1	2440.124237	2008.180211	0.822982773	-0.281066
ALG5	350.0042884	287.9498071	0.822703654	-0.281555
TMEM183BP	60.5353329	49.789592	0.822488118	-0.281933
FADS3	205.8201318	169.2846128	0.822488118	-0.281933
CRLS1	36.32119974	29.8737552	0.822488118	-0.281933
SPATA9	12.10706658	9.9579184	0.822488118	-0.281933
PNLDC1	12.10706658	9.9579184	0.822488118	-0.281933
MTND1P11	12.10706658	9.9579184	0.822488118	-0.281933
ENSG000002	12.10706658	9.9579184	0.822488118	-0.281933
EOLA1-DT	12.10706658	9.9579184	0.822488118	-0.281933
LINC00921	12.10706658	9.9579184	0.822488118	-0.281933
RPL14	933.344769	767.5895434	0.822407291	-0.282075
CALCOCO2	900.3254965	740.2052678	0.822152955	-0.282521
UFM1	85.85010847	70.53525534	0.821609391	-0.283475
DNAJC13	2484.149934	2040.543446	0.821425236	-0.283799
RETREG3	642.7751711	527.7696752	0.821079748	-0.284406
SSR3	967.4646839	794.1439924	0.820850627	-0.284808
GRAMD4	173.9015018	142.7301637	0.820752911	-0.28498
CARF	386.3254881	316.9937357	0.820535392	-0.285363
ENSG000002	37.42184215	30.70358173	0.820472215	-0.285474
PCYOX1L	162.8950776	133.6020719	0.820172554	-0.286001
CCDC174	338.9978642	277.9918887	0.820040236	-0.286233
EPB41L1	816.6766729	669.6700124	0.81999405	-0.286315
SHC2	201.4175622	165.1354801	0.819866343	-0.286539
CASC3	2281.631729	1870.429006	0.819776909	-0.286697
MOB3B	75.94432672	62.23699	0.819508088	-0.28717
KCNJ15	50.62955115	41.49132667	0.819508088	-0.28717
CD80	25.31477557	20.74566333	0.819508088	-0.28717
SNHG5	25.31477557	20.74566333	0.819508088	-0.28717

XPOT	2246.411172	811.1560939	0.36108977	-1.469571
MMRN1	107.8629568	38.8910456	0.360559795	-1.47169
ZNF609	2295.94008	827.8236849	0.360559795	-1.47169
AGK	246.5439013	88.89381852	0.360559795	-1.47169
LETM2	30.81798766	11.11172731	0.360559795	-1.47169
ENSG000002	15.40899383	5.555863657	0.360559795	-1.47169
ATP5MJ	780.3554732	281.1267011	0.360254667	-1.472911
DR1	417.1434758	150.0083187	0.35960845	-1.475501
ZNF836	1063.220574	382.2434196	0.359514694	-1.475877
CTSD	389.6274154	140.0077642	0.359337558	-1.476588
C9orf85	129.8758051	46.66925472	0.359337558	-1.476588
HPGDS	64.93790256	23.33462736	0.359337558	-1.476588
HOXD13	114.4668113	41.11339106	0.359173027	-1.477249
RUFY1	99.05781747	35.55752741	0.358957307	-1.478116
LYNX1	49.52890873	17.7787637	0.358957307	-1.478116
NANP	182.7066411	65.55919115	0.358822158	-1.478659
HACD1	133.1777324	47.78042745	0.358771895	-1.478861
WAC	8775.421985	3146.841175	0.358597134	-1.479564
UQCRC2	170.5995745	61.11450023	0.358233603	-1.481027
RWDD1	294.9721676	105.5614095	0.35786905	-1.482496
SPDL1	139.7815869	50.00277291	0.357720742	-1.483094
FERMT2	1789.644569	640.0354933	0.357632741	-1.483449
HOXA2	52.83083598	18.88993643	0.35755513	-1.483762
LY96	52.83083598	18.88993643	0.35755513	-1.483762
ATP5PF	758.3426248	271.1261465	0.357524604	-1.483886
SLC45A3	2454.432588	876.7152851	0.357196726	-1.485209
SLC16A14	180.5053563	64.44801842	0.357042139	-1.485834
SNRPA1	202.5182046	72.22622754	0.356640667	-1.487457
FOXH1	18.71092108	6.667036389	0.356317915	-1.488763
CLN3	18.71092108	6.667036389	0.356317915	-1.488763
PUM3	1830.368338	651.1472206	0.355746549	-1.491078
THOC7	618.561038	220.0122008	0.355683898	-1.491332
SBDS	1628.950776	578.9209931	0.35539502	-1.492505
ARID2	4156.025764	1476.74856	0.355327095	-1.49278
PRKAR2B	434.7537544	154.4530097	0.355265499	-1.493031
ZSWIM1	604.2526865	214.4563372	0.354911682	-1.494468
IL4I1	81.44753881	28.89049102	0.354712879	-1.495276
HS3ST3A1	40.7237694	14.44524551	0.354712879	-1.495276
RPL17P6	122.1713082	43.33573653	0.354712879	-1.495276
DGKH	451.2633907	160.0088733	0.354579779	-1.495818
VWA5A	354.406858	125.5625187	0.35428919	-1.497001
CSNK1G1	147.4860838	52.22511838	0.354102008	-1.497763
RASA2	703.310504	248.9026918	0.35390157	-1.49858
CYP26B1	44.02569665	15.55641824	0.353348599	-1.500836
TMEM17	22.01284833	7.77820912	0.353348599	-1.500836
RFX3-DT	22.01284833	7.77820912	0.353348599	-1.500836
EIF3J	135.3790172	47.78042745	0.352938206	-1.502512
PDAP1	803.4689639	283.3490465	0.352657115	-1.503662
GPSM2	230.034265	81.11560939	0.352624029	-1.503797
FAM153CP	116.6680961	41.11339106	0.352396177	-1.50473
MBNL1	2334.462565	822.2678213	0.352230031	-1.50541
DNAJC15	239.9400468	84.44912759	0.351959286	-1.50652
EYA1	958.6595446	336.6853376	0.351204283	-1.509618
HAAO	50.62955115	17.7787637	0.351153887	-1.509825
CD80	25.31477557	8.889381852	0.351153887	-1.509825
KCNE3	25.31477557	8.889381852	0.351153887	-1.509825
RASSF8-AS1	25.31477557	8.889381852	0.351153887	-1.509825
CCDC88C	1911.815877	671.1483298	0.351052807	-1.51024
TTC39C	256.449683	90.00499125	0.3509655	-1.510599
MAMDC2	79.24625397	27.77931829	0.350544245	-1.512332
H2BC8	989.4775323	346.6858922	0.350372677	-1.513038
TRIM2	53.9314784	18.88993643	0.350258087	-1.51351
MUC20P1	107.8629568	37.77987287	0.350258087	-1.51351
RNASE6	279.5631737	97.78320037	0.349771392	-1.515516
ZCRB1	816.6766729	285.571392	0.349674971	-1.515914
TRIM24	1833.670266	641.146666	0.349652104	-1.516008
PDCD1LG2	28.61670282	10.00055458	0.349465648	-1.516777
ENSG000002	28.61670282	10.00055458	0.349465648	-1.516777
PM20D2	868.4068665	303.3501557	0.349318007	-1.517387
C16orf87	203.618847	71.11505481	0.349255758	-1.517644
DSC2	1620.145637	565.5869203	0.349096345	-1.518303
ZNF506	723.1220675	252.23621	0.348815534	-1.519464
LRRC32	252.0471133	87.78264578	0.348278719	-1.521686
SLC25A6	191.5117804	66.67036389	0.348126699	-1.522316
STX18-AS1	31.91863007	11.11172731	0.348126699	-1.522316
ARHGAP25	130.9764475	45.55808199	0.347834155	-1.523528
CBY1	198.1156349	68.89270935	0.347739891	-1.52392
MINPP1	99.05781747	34.44635467	0.347739891	-1.52392
RAB8B	409.4389789	142.2301096	0.347378039	-1.525422
NKTR	4780.090014	1660.092061	0.347293054	-1.525775
RBAK	380.822276	132.229555	0.347221167	-1.526073
ZNG1A	832.0856667	288.9049102	0.347205729	-1.526137
TTLL11	419.3447606	145.5636278	0.347121608	-1.526487
TP73-AS1	35.22055732	12.22290005	0.347038803	-1.526831
EIF2AK3	1767.631721	613.3673478	0.346999514	-1.526994
RASSF6	253.1477557	87.78264578	0.346764464	-1.527972
NAA16	400.6338395	138.8965914	0.346692111	-1.528273
TMF1	2446.728091	847.8247941	0.346513696	-1.529016
LNPEP	2069.207743	716.7064118	0.346367548	-1.529624
COL1A1	14653.95313	5074.725864	0.346304224	-1.529888
LRRC4B	38.52248457	13.33407278	0.346137403	-1.530583
ADARB2	38.52248457	13.33407278	0.346137403	-1.530583
ZMYM5	504.0942267	174.4541188	0.346074423	-1.530846
KCNAB1	314.7837311	108.8949277	0.345935692	-1.531424
GIMAP6	80.34689639	27.77931829	0.345742269	-1.532231
TRAPPC2B	80.34689639	27.77931829	0.345742269	-1.532231
PLA2G7	443.5588938	153.3418369	0.345707952	-1.532374
TAB2	9013.160747	3115.728339	0.345686538	-1.532464
FAM118A	456.7666028	157.7865279	0.345442348	-1.533483
FCGR2B	41.82441182	14.44524551	0.34537833	-1.533751
GNB3	41.82441182	14.44524551	0.34537833	-1.533751
ENSG000002	44.8106328	47.78042745	0.937844954	-0.092579
SOD1	5008.003129	5340.296147	0.937776294	-0.092684
TBC1D22B	412.4237871	440.0244016	0.937274809	-0.093456
TRIM66	486.2783486	518.9176656	0.937101164	-0.093723
ZNF461	241.4795212	257.7920737	0.936722056	-0.094307
MKRN2	491.2573078	524.4735292	0.936667497	-0.094391
HAUS4	69.7054288	74.44857301	0.936289656	-0.094973
TIMM13	300.3972051	321.1289194	0.935441148	-0.096281
UHRF2	1336.020719	1428.968133	0.934954873	-0.097031
TTF2	631.4979919	675.5930207	0.934731373	-0.097376
RALBP1	1133.543045	1213.400623	0.934186965	-0.098217
TNPO3	757.631625	811.1560939	0.934014588	-0.098483
AASDH	700.3735942	750.0415937	0.933779673	-0.098846
MYBPH	12.447398	13.33407278	0.93350308	-0.099273
S1PR5	37.342194	40.00221833	0.93350308	-0.099273
ENSG000002	45.64045934	48.89160018	0.93350308	-0.099273
GDF9	29.04392867	31.11283648	0.93350308	-0.099273
ZNF385C	29.04392867	31.11283648	0.93350308	-0.099273
EDA	66.38612267	71.11505481	0.93350308	-0.099273
GPR68	16.59653067	17.7787637	0.93350308	-0.099273
HHIP	16.59653067	17.7787637	0.93350308	-0.099273
ENSG000002	16.59653067	17.7787637	0.93350308	-0.099273
XACT	16.59653067	17.7787637	0.93350308	-0.099273
SSTR5	8.298265334	8.889381852	0.93350308	-0.099273
SH2D4B	8.298265334	8.889381852	0.93350308	-0.099273
CCDC73	8.298265334	8.889381852	0.93350308	-0.099273
CPSF4L	8.298265334	8.889381852	0.93350308	-0.099273
LYRM9	8.298265334	8.889381852	0.93350308	-0.099273
CYP1B1-AS	8.298265334	8.889381852	0.93350308	-0.099273
SH3GL1P1	8.298265334	8.889381852	0.93350308	-0.099273
CSTA	4.149132667	4.444690926	0.93350308	-0.099273
SLURP1	4.149132667	4.444690926	0.93350308	-0.099273
GFRA3	4.149132667	4.444690926	0.93350308	-0.099273
ZNF474	4.149132667	4.444690926	0.93350308	-0.099273
CCL19	4.149132667	4.444690926	0.93350308	-0.099273
RPL21P3	4.149132667	4.444690926	0.93350308	-0.099273
C2CD4D	4.149132667	4.444690926	0.93350308	-0.099273
RBM26-AS1	4.149132667	4.444690926	0.93350308	-0.099273
MRPS18AP1	4.149132667	4.444690926	0.93350308	-0.099273
FEZF1-AS1	4.149132667	4.444690926	0.93350308	-0.099273
RPL26P30	4.149132667	4.444690926	0.93350308	-0.099273
PKMP1	4.149132667	4.444690926	0.93350308	-0.099273
SLC35E1P1	4.149132667	4.444690926	0.93350308	-0.099273
KLRK1-AS1	4.149132667	4.444690926	0.93350308	-0.099273
POGLUT2P1	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000000	4.149132667	4.444690926	0.93350308	-0.099273
NAP1L1P1	4.149132667	4.444690926	0.93350308	-0.099273
PRMT5-DT	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000000	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000000	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000002	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000000	4.149132667	4.444690926	0.93350308	-0.099273
ENSG000000	4.149132667	4.444690926	0.93350308	-0.099273
MRPL34	87.131786	93.33850944	0.93350308	-0.099273
LRRC46	20.74566333	22.22345463	0.93350308	-0.099273
H3P16	20.74566333	22.22345463	0.93350308	-0.099273
RNASE6	91.28091867	97.78320037	0.93350308	-0.099273
RPS15	2264.59661	2426.801245	0.933161137	-0.099802
ZNF561	565.1118692	605.5891386	0.93316051	-0.099803
ARHGEF12	2711.873111	2906.827865	0.93293213	-0.100156
CD47	915.2986663	981.1655219	0.932868763	-0.100254
USP43	287.1199805	307.7948466	0.93282907	-0.100315
AKAP1	1689.526822	1812.322725	0.932243909	-0.101221
TRAF5	238.1602151	255.5697282	0.931879596	-0.101785
DDRGK1	321.9726949	345.5747195	0.931702109	-0.102059
DSTYK	394.1676033	423.3568107	0.93105294	-0.103065
ZNF415	503.7047058	541.1411202	0.930819498	-0.103427
PPFIA1	58.91768387	63.33684569	0.93022763	-0.104344
MRPL27	231.5216028	248.9026918	0.93016914	-0.104435
CEMIP2	3746.666798	4028.001151	0.930155344	-0.104456
DICER1	5107.582313	5491.415639	0.930103028	-0.104538
RACK1	8206.984415	8824.933833	0.929976878	-0.104733
TSPYL2	480.4695628	516.6953201	0.929889519	-0.104869
SNX2	497.89592	535.5852566	0.92962623	-0.105272
ZBTB40	590.8364918	635.5908024	0.929586283	-0.105339
PRNCR1	42.3211532	45.55808199	0.928949406	-0.106328
ARHGEF40	716.1402983	771.1538756	0.9286607	-0.106777
KYAT3	424.0413586	456.6919926	0.928506226	-0.107017
KIF16B	1001.600626	1078.948722	0.92831161	-0.107319
BAK1	102.0686636	110.0061004	0.927845485	-0.108044
GNB1L	34.02288787	36.66870014	0.927845485	-0.108044
ANKRD34B	34.02288787	36.66870014	0.927845485	-0.108044
ATF4	1105.328942	1192.288341	0.927065127	-0.109257
RPL19	1556.754577	1680.09317	0.926588242	-0.11
ADGRG1	453.9151138	490.0271746	0.926306004	-0.110439
SWSAP1	47.3001124	51.11394565	0.925385661	-0.111873
RUNX2	141.9003372	153.3418369	0.925385661	-0.111873
DAP	1952.581833	2110.117017	0.925342916	-0.11194
RAB11FIP1	1152.629055	1245.624632	0.925342214	-0.111941
RNF216	826.5072272	893.3828761	0.92514335	-0.112251
TTC7A	353.5061032	382.2434196	0.92481933	-0.112757
TSHR	43.15097974	46.66925472	0.924612574	-0.113079
UBQLNL	21.57548987	23.33462736	0.924612574	-0.113079
ZNF597	168.4547863	182.232328	0.924395732	-0.113417
TMEM39A	375.9114196	406.6892197	0.924321082	-0.113534
ARHGDIB	268.0339703	290.0160829	0.924203815	-0.113717
FKBP9	1067.986748	1155.619641	0.924168049	-0.113773
SUMF2	449.7659811	486.6936564	0.924125423	-0.113839
KCNQ2	39.00184707	42.22456379	0.923676731	-0.11454
DNAJC25	78.00369414	84.44912759	0.923676731	-0.11454
NPHP4	650.5840022	704.4835117	0.923490744	-0.114831
LINC01004	25.31477557	20.74566333	0.819508088	-0.28717
ADAR	5963.280612	4886.018628	0.819350781	-0.287447
IP6K2	1186.492525	971.7268706	0.818991144	-0.28808
METTL22	230.034265	188.3706231	0.818880714	-0.288275
KCTD18	498.5910146	408.2746544	0.818856823	-0.288317
NYNRIN	281.7644586	230.6917763	0.818739799	-0.288523
MBTPS2	358.8094277	293.7585928	0.818703663	-0.288587
MIGA2	128.7751627	105.3879697	0.818387393	-0.289144
TSC22D2	1007.087811	824.0177476	0.818218371	-0.289442
BRAP	659.2848074	539.3872467	0.818139961	-0.28958
ST7L	685.7002254	560.9627366	0.818087432	-0.289673
NELFA	234.4368347	191.6899292	0.817661309	-0.290425
ZSCAN21	209.1220591	170.9442659	0.817437752	-0.290819
TFIP11	431.4518272	352.6762767	0.817417506	-0.290855
OCRL	1635.554631	1336.850545	0.817368323	-0.290942
TEK	117.7687385	96.25987787	0.817363581	-0.29095
ADGRF2	13.207709	10.78774493	0.816776395	-0.291987
INSYN2A	13.207709	10.78774493	0.816776395	-0.291987
CCDC154	13.207709	10.78774493	0.816776395	-0.291987
PPP5D1P	13.207709	10.78774493	0.816776395	-0.291987
NRXN3	2716.385483	2218.126324	0.816572735	-0.292347
SREK1	1101.743059	899.5319622	0.816462564	-0.292541
LZTFL1	212.4239863	173.4337455	0.816450856	-0.292562
DDX6	2960.7281	2417.284692	0.816449404	-0.292565
IFRD2	172.8008594	141.0705107	0.81637621	-0.292694
MAP3K14	332.3940097	271.3532764	0.816360309	-0.292722
CREB3	226.7323378	185.0513169	0.816166405	-0.293065
KLHDC10	666.9893043	544.3662059	0.816154326	-0.293086
BAG2	187.1092108	152.6880821	0.81603723	-0.293293
AKT1	2218.895111	1810.681496	0.816028431	-0.293309
ZNF383	254.2483982	207.4566333	0.815960434	-0.293429
PCDH1	1034.603871	843.9335844	0.815706966	-0.293877
SARAF	1904.11138	1552.605444	0.815396337	-0.294427
FAM234B	285.0663858	232.3514293	0.815078315	-0.294989
SCAND1	342.2997915	278.8217152	0.814554149	-0.295917
TOMM40L	123.2719506	100.4090105	0.814532503	-0.295956
MDH2	1136.963616	926.0864112	0.814525987	-0.295967
CDK11B	591.0449776	481.2993894	0.814319396	-0.296333
ENSG000002	55.03212081	44.8106328	0.814263236	-0.296433
CNGB3	27.51606041	22.4053164	0.814263236	-0.296433
ENSG000002	27.51606041	22.4053164	0.814263236	-0.296433
SLC4A2	468.8736693	381.7202053	0.81412165	-0.296684
NAPB	234.4368347	190.8601027	0.81412165	-0.296684
TBC1D2	179.4047139	146.0494699	0.814078219	-0.296761
RASIP1	96.85653263	78.83352067	0.813920533	-0.29704
NIBAN1	3551.773077	2890.285816	0.81375858	-0.297327
EDC4	361.0107125	293.7585928	0.813711568	-0.297411
TTBK2	1139.164901	926.9162378	0.813680475	-0.297466
KDM5B	3880.86516	3157.489959	0.813604655	-0.2976
NUDT16-DT	41.82441182	34.02288787	0.813469608	-0.29784
MINDY1	139.7815869	113.6862351	0.813313381	-0.298117
DNAJC5	364.3126398	296.2480724	0.813169899	-0.298371
TRIP10	574.5353413	467.1923383	0.813165535	-0.298379
GATA5	56.13276323	45.64045934	0.813080574	-0.29853
CNOT11	607.5546138	493.7467874	0.812678854	-0.299243
FAM76A	170.5995745	138.5810311	0.812317566	-0.299884
KIAA1143P1	28.61670282	23.23514293	0.811943398	-0.300549
BTBD16	14.30835141	11.61757147	0.811943398	-0.300549
NKRF	14.30835141	11.61757147	0.811943398	-0.300549
ENSG000002	14.30835141	11.61757147	0.811943398	-0.300549
ENSG000002	14.30835141	11.61757147	0.811943398	-0.300549
ZBTB11-AS1	14.30835141	11.61757147	0.811943398	-0.300549
ENSG000002	14.30835141	11.61757147	0.811943398	-0.300549
DBP	187.1092108	151.8582556	0.811602245	-0.301155
MMP25-AS1	129.8758051	105.3879697	0.811451907	-0.301423
SYT11	159.5931504	129.4529392	0.811143454	-0.301971
NAMPT	2065.905815	1675.419771	0.810985553	-0.302252
NBEAL1	3176.454013	2575.78156	0.810898426	-0.302407
SNRK	657.0835225	532.7486344	0.81077765	-0.302622
BANP	160.6937928	130.2827657	0.8107517	-0.302668
CLASRP	453.4646755	367.6131543	0.810676496	-0.302802
OS9	1721.404739	1394.938403	0.81034888	-0.303385
ANKIB1	1546.402595	1253.038065	0.810292268	-0.303486
PDE12	516.2012932	418.2325728	0.810212176	-0.303628
GRIP2	29.71734524	24.06496947	0.8097954	-0.304371
SIGLEC14	29.71734524	24.06496947	0.8097954	-0.304371
OSTM1	209.1220591	169.2846128	0.809501463	-0.304894
TBC1D22B	509.5974387	412.4237871	0.809312912	-0.30523
PFKM	509.5974387	412.4237871	0.809312912	-0.30523
SUPT6H	3146.736668	2545.907804	0.809062871	-0.305676
LAMTOR1	606.4539714	490.4274812	0.808680468	-0.306358
ST3GAL1	136.4796596	110.3669289	0.808669433	-0.306378
APOD	3671.743101	2969.119336	0.808640271	-0.30643
QRICH2	151.8886534	122.8143269	0.808581314	-0.306535
COPS2	653.7815953	528.5995018	0.808526128	-0.306634
KATNIP	1566.214158	1266.31529	0.808519884	-0.306645
DENND4C	3088.40262	2496.948039	0.80849175	-0.306695
SMAP2	778.1541883	629.0085123	0.808334032	-0.306977
KANSL3	905.8287086	731.9070024	0.807997136	-0.307578
ATP11B	3814.826615	3081.975745	0.807894055	-0.307762
TMEM229B	30.81798766	24.894796	0.80780083	-0.307928
MEPCE	15.40899383	12.447398	0.80780083	-0.307928
FAM166A	15.40899383	12.447398	0.80780083	-0.307928
NUS1P1	15.40899383	12.447398	0.80780083	-0.307928
RERG	246.5439013	199.158368	0.80780083	-0.307928
ZNF593	78.14561156	63.06681654	0.807042331	-0.309284
STX4	219.0278408	176.7530516	0.80698897	-0.309379
CEMIP	188.2098532	151.8582556	0.806856033	-0.309617
AP4S1	62.73661773	50.61941854	0.806856033	-0.309617
SLC10A7	220.1284833	177.5828781	0.806723762	-0.309853
RBKS	47.3276239	38.17202053	0.806548425	-0.310167

HSF2	254.2483982	87.78264578	0.345263319	-1.534231
BLOC1S6	257.5503254	88.89381852	0.345151257	-1.534699
EDARADD	389.6274154	134.4519005	0.345078132	-1.535005
MRPL39	347.8030036	120.006655	0.345042032	-1.535156
RBM27	86.95075089	30.00166375	0.345042032	-1.535156
ARL2BP	483.1820208	166.6759097	0.344954701	-1.535521
CHRM1	177.203429	61.11450023	0.344883282	-1.53582
C18orf21	45.12633907	15.55641824	0.344730341	-1.53646
RPL41P1	45.12633907	15.55641824	0.344730341	-1.53646
MX1	544.8179961	187.7881916	0.344680596	-1.536668
CPED1	1199.700234	413.3562561	0.344549617	-1.537216
SERPINF1	1725.807309	594.4774113	0.344463376	-1.537577
ARRDC3	1620.145637	557.8087112	0.344295413	-1.538281
MCAM	417.1434758	143.3412824	0.343625852	-1.54109
CCDC3	55.03212081	18.88993643	0.343252925	-1.542656
KANTR	55.03212081	18.88993643	0.343252925	-1.542656
SDHAF3	171.7002169	58.89215477	0.342994061	-1.543744
BTK	230.034265	78.89326393	0.342963097	-1.543875
INPP1	116.6680961	40.00221833	0.342871956	-1.544258
GSPT2	116.6680961	40.00221833	0.342871956	-1.544258
USP3	891.5203572	305.5725011	0.342754373	-1.544753
TPD52L1	123.2719506	42.22456379	0.342531805	-1.54569
CCDC160	61.63597531	21.1122819	0.342531805	-1.54569
H2AC12	61.63597531	21.1122819	0.342531805	-1.54569
GPX7	64.93790256	22.22345463	0.342226246	-1.546978
DGKA	464.4710997	158.8977006	0.342104602	-1.547491
CISD1	139.7815869	47.78042745	0.341822042	-1.548683
TLR6	139.7815869	47.78042745	0.341822042	-1.548683
TMEM123	5866.424079	2004.555608	0.341699744	-1.549199
ARHGEF6	650.479668	222.2345463	0.341647183	-1.549421
ARMCX1	146.3854414	50.00277291	0.341582964	-1.549692
ST3GAL3	78.14561156	26.66814555	0.341262229	-1.551047
TUBA4A	315.8843735	107.7837549	0.341212684	-1.551257
ERAP1	1140.265543	388.910456	0.341070076	-1.55186
YWHAH	576.7366261	196.6775735	0.341018005	-1.55208
CNKSR3	176.1027866	60.0033275	0.340729006	-1.553303
FXYD5	280.6638162	95.5608549	0.340481563	-1.554351
ZNF281	1507.88011	513.3618019	0.340452665	-1.554474
DENND1C	195.9143501	66.67036389	0.340303627	-1.555106
EPC2	1123.755907	382.2434196	0.340148085	-1.555765
CDC26	111.164884	37.77987287	0.339854381	-1.557011
ZNF681	117.7687385	40.00221833	0.339667545	-1.557805
RWDD4	121.0706658	41.11339106	0.339581771	-1.558169
ENSG000001	121.0706658	41.11339106	0.339581771	-1.558169
FAM149A	193.7130653	65.55919115	0.338434535	-1.563051
KIF20B	213.5246288	72.22622754	0.338257127	-1.563808
LCA5	243.241974	82.22678213	0.338045202	-1.564712
CSNK1G3	602.0514017	203.3446099	0.337752905	-1.56596
PRKAR2A	691.2034374	233.3462736	0.337594203	-1.566638
TSPAN1	1218.411155	411.1339106	0.33743446	-1.567321
CAPG	247.6445437	83.33795486	0.336522475	-1.571225
SCYL2P1	39.62312699	13.33407278	0.336522475	-1.571225
RAD54L	19.81156349	6.667036389	0.336522475	-1.571225
SLA2	19.81156349	6.667036389	0.336522475	-1.571225
FRMD7	19.81156349	6.667036389	0.336522475	-1.571225
ADRA1D	19.81156349	6.667036389	0.336522475	-1.571225
PRSS42P	19.81156349	6.667036389	0.336522475	-1.571225
ELMOD1	9.905781747	3.333518194	0.336522475	-1.571225
MNX1	9.905781747	3.333518194	0.336522475	-1.571225
CEP55	9.905781747	3.333518194	0.336522475	-1.571225
C4orf17	9.905781747	3.333518194	0.336522475	-1.571225
CDR2	9.905781747	3.333518194	0.336522475	-1.571225
NDST2	9.905781747	3.333518194	0.336522475	-1.571225
SPSB4	9.905781747	3.333518194	0.336522475	-1.571225
C8orf33	9.905781747	3.333518194	0.336522475	-1.571225
SERPINB11	9.905781747	3.333518194	0.336522475	-1.571225
OR4A8	9.905781747	3.333518194	0.336522475	-1.571225
RHEBP2	9.905781747	3.333518194	0.336522475	-1.571225
ZNF691-DT	9.905781747	3.333518194	0.336522475	-1.571225
PCAT6	9.905781747	3.333518194	0.336522475	-1.571225
RNASEH1-D	9.905781747	3.333518194	0.336522475	-1.571225
ENSG000002	9.905781747	3.333518194	0.336522475	-1.571225
CPB2-AS1	9.905781747	3.333518194	0.336522475	-1.571225
OR7E7P	9.905781747	3.333518194	0.336522475	-1.571225
MILIP	9.905781747	3.333518194	0.336522475	-1.571225
ENSG000002	9.905781747	3.333518194	0.336522475	-1.571225
ENTPD1-AS1	148.5867262	50.00277291	0.336522475	-1.571225
ARL14EP	270.7580344	91.11616398	0.336522475	-1.571225
ZNF208	181.6059987	61.11450023	0.336522475	-1.571225
LAMB4	46.22698148	15.55641824	0.336522475	-1.571225
BTF3L4P2	46.22698148	15.55641824	0.336522475	-1.571225
ENSG000002	46.22698148	15.55641824	0.336522475	-1.571225
POU2F3	23.11349074	7.77820912	0.336522475	-1.571225
PHKG1	23.11349074	7.77820912	0.336522475	-1.571225
MT-TQ	23.11349074	7.77820912	0.336522475	-1.571225
RORC	356.6081429	120.006655	0.336522475	-1.571225
HSPB8	82.54818122	27.77931829	0.336522475	-1.571225
NOSTRIN	75.94432672	25.55697282	0.336522475	-1.571225
CD3G	42.92505424	14.44524551	0.336522475	-1.571225
PON1	6.603854498	2.222345463	0.336522475	-1.571225
SPDYA	6.603854498	2.222345463	0.336522475	-1.571225
CFAP100	6.603854498	2.222345463	0.336522475	-1.571225
CYCSP34	6.603854498	2.222345463	0.336522475	-1.571225
SPEN-AS1	6.603854498	2.222345463	0.336522475	-1.571225
RNF32-DT	6.603854498	2.222345463	0.336522475	-1.571225
ATP6V0C	6.603854498	2.222345463	0.336522475	-1.571225
KTN1-AS1	6.603854498	2.222345463	0.336522475	-1.571225
E2F3P2	6.603854498	2.222345463	0.336522475	-1.571225
LRIT2	6.603854498	2.222345463	0.336522475	-1.571225
NMS	6.603854498	2.222345463	0.336522475	-1.571225
RNU6-2	6.603854498	2.222345463	0.336522475	-1.571225
PTPRG	1166.736106	1263.403396	0.9234866	-0.114837
ATP6V1D	473.001124	512.2506292	0.923378317	-0.115006
GTF2F1	808.2510435	875.6041124	0.923078172	-0.115475
KCTD10	326.1218276	353.3529286	0.92293512	-0.115699
RAB11FIP3	108.7072759	117.7843095	0.92293512	-0.115699
RAD23A	1191.630902	1291.182714	0.922898742	-0.115756
NUDT16	356.8254093	386.6881105	0.922773159	-0.115952
CD53	69.7054288	75.55974574	0.92252069	-0.116347
RGS9	34.8527144	37.77987287	0.92252069	-0.116347
ISCU	571.7504815	620.0343841	0.922127056	-0.116963
COQ6	441.4677158	478.9154472	0.921807217	-0.117463
ZXDA	175.0933985	190.0105371	0.921493098	-0.117955
PECR	166.7951332	181.1211552	0.920903651	-0.118878
ELK1	390.8482972	424.4679834	0.920795708	-0.119047
RNFT1	118.6651943	128.8960368	0.920627175	-0.119311
CCDC80	162.6460005	176.6764643	0.920586685	-0.119375
LYSMD1	167.6249597	182.232328	0.919842059	-0.120542
COX10	291.2691132	316.6842285	0.919746192	-0.120692
CLHC1	194.1794088	211.122819	0.919746192	-0.120692
RPL17P7	234.0110824	254.4585555	0.919643208	-0.120854
AKAP10	848.0827171	922.2733671	0.919556768	-0.120989
PRKCSH	2467.074284	2683.482146	0.919355579	-0.121305
FBXO15	39.8316736	43.33573653	0.919141494	-0.121641
ZP1	39.8316736	43.33573653	0.919141494	-0.121641
ENSG000002	39.8316736	43.33573653	0.919141494	-0.121641
CYB5RL	26.55444907	28.89049102	0.919141494	-0.121641
ZNF763	13.27722453	14.44524551	0.919141494	-0.121641
ENSG000002	13.27722453	14.44524551	0.919141494	-0.121641
KIF9	185.8811435	202.2334371	0.919141494	-0.121641
WDR70	672.9893186	732.26283	0.919054322	-0.121778
SRSF5	2212.317538	2407.911309	0.918770359	-0.122224
CHMP2A	572.580308	623.3679023	0.918527094	-0.122606
KAT5	604.1137163	657.814257	0.918365192	-0.12286
KDM2A	1497.836893	1631.20157	0.918241449	-0.123055
GEMIN7	62.23699	67.78153662	0.91819975	-0.12312
SIPA1L3	2681.999356	2921.273111	0.918092645	-0.123288
GLRA3	307.0358173	334.4629922	0.917996384	-0.12344
TRAK1	391.6781237	426.6903289	0.917944695	-0.123521
FOXN3	863.8494212	941.1633035	0.917852851	-0.123665
MRPS28	142.7301637	155.5641824	0.91750017	-0.12422
PARP12	236.500562	257.7920737	0.917408199	-0.124364
KCTD2	160.9863475	175.5652916	0.916959987	-0.125069
SIX2	80.49317374	87.78264578	0.916959987	-0.125069
HEATR6	903.6810948	985.6102128	0.916874727	-0.125203
LRCH3	1212.376565	1322.29555	0.916872605	-0.125207
PYCR1	438.9782362	478.9154472	0.916609056	-0.125622
ARMCX6	67.2159492	73.33740027	0.916530296	-0.125746
MKS1	201.6478476	220.0122008	0.916530296	-0.125746
XAF1	98.74935747	107.7837549	0.916180342	-0.126296
TFB1M	175.0933985	191.1217098	0.91613558	-0.126367
DCTN4	741.0350943	808.9337485	0.916064011	-0.12648
TMEM230	467.1923383	510.0282837	0.916012608	-0.126561
POLR1A	1681.228557	1835.657352	0.915872755	-0.126781
LRRC37A	85.47213294	93.33850944	0.915722069	-0.127018
NXF1	679.6279308	742.2633846	0.915615595	-0.127186
ANKRD46	306.2059908	334.4629922	0.915515313	-0.127344
ADAM29	31.53340827	34.44635467	0.915435278	-0.12747
STK31	31.53340827	34.44635467	0.915435278	-0.12747
TGFBRAP1	302.0568581	330.0183012	0.915273053	-0.127726
ERICH1	270.5234499	295.5719466	0.915254147	-0.127756
MDH2	926.0864112	1012.278358	0.914853512	-0.128387
TM2D1	596.6452775	652.2583934	0.9147376	-0.12857
SUPT7L	727.7578698	795.5996757	0.914728716	-0.128584
RPL7AP6	49.789592	54.44746384	0.914451996	-0.129021
RSBN1	855.5511559	935.6074399	0.914433896	-0.129049
MAP4	2970.778989	3249.069067	0.91434775	-0.129185
FHL1	145.2196433	158.8977006	0.913919099	-0.129862
SMOC1	154.3477352	168.8982552	0.913850383	-0.12997
ACKR3	576.7294407	631.1461115	0.913781184	-0.130079
PLOD3	381.7202053	417.800947	0.913641312	-0.1303
PCCA	568.4311754	622.2567296	0.913499442	-0.130524
GARRE1	641.4559103	702.2611663	0.913415039	-0.130658
CLTC	11806.77192	12934.05059	0.912844111	-0.13156
SDSL	73.02473494	80.00443666	0.912758567	-0.131695
MEFV	36.51236747	40.00221833	0.912758567	-0.131695
TIGD4	36.51236747	40.00221833	0.912758567	-0.131695
RASL10B	18.25618373	20.00110917	0.912758567	-0.131695
EFCC1	9.128091867	10.00055458	0.912758567	-0.131695
MROH9	9.128091867	10.00055458	0.912758567	-0.131695
LY6K	9.128091867	10.00055458	0.912758567	-0.131695
GON7	9.128091867	10.00055458	0.912758567	-0.131695
CLVS1	9.128091867	10.00055458	0.912758567	-0.131695
POLR2J2	9.128091867	10.00055458	0.912758567	-0.131695
SMKR1	9.128091867	10.00055458	0.912758567	-0.131695
EFNA2	27.3842756	30.00166375	0.912758567	-0.131695
NOTUM	27.3842756	30.00166375	0.912758567	-0.131695
TMEM231	27.3842756	30.00166375	0.912758567	-0.131695
SLC25A28	182.5618373	200.0110917	0.912758567	-0.131695
ENSG000002	63.89664307	70.00388208	0.912758567	-0.131695
SUN2	689.5858492	755.5974574	0.91263654	-0.131888
TBP	557.6434304	611.1450023	0.912456828	-0.132172
ZBTB2	411.5939605	451.136129	0.912349808	-0.132341
MARCHF5	384.2096849	421.1344652	0.912320688	-0.132387
WDSUB1	338.5692256	371.1316923	0.912261692	-0.13248
ZSCAN23	132.7722453	145.5636278	0.912125146	-0.132696
NPC1	783.3562475	858.9365214	0.912007148	-0.132883
IP6K1	357.6552359	392.2439742	0.911818305	-0.133182
MAP7D3	215.7548987	236.6797918	0.911589862	-0.133543
CMTM3	68.87560227	75.55974574	0.911538301	-0.133625
NFE2L2	3237.983133	3552.419222	0.911486773	-0.133706
KPNA6	773.3983291	848.9359668	0.911020806	-0.134444
KBTBD6	396.2312699	319.4832153	0.806304902	-0.310603
CACNB4	79.24625397	63.89664307	0.806304902	-0.310603
FGFRL1	254.2483982	204.9671537	0.806168909	-0.310846
FBXO4	63.83726015	51.44924507	0.805943816	-0.311249
SLC25A46	574.5353413	463.0432056	0.805943816	-0.311249
EXOC3L2	31.91863007	25.72462253	0.805943816	-0.311249
ZNF236	834.2869516	672.159492	0.805669429	-0.31174
ANKRD17	12003.60619	9670.79842	0.805657755	-0.311761
RALGAPA1P	160.6937928	129.4529392	0.805587677	-0.311886
DDIT3	80.34689639	64.7264696	0.805587677	-0.311886
S100A16	48.42826632	39.00184707	0.805352948	-0.312307
INSYN1	64.93790256	52.2790716	0.805062522	-0.312827
BBS2	406.1370516	326.9516541	0.805027891	-0.312889
ZBTB45	439.1563241	353.5061032	0.804966441	-0.312999
PPP1R9B	683.4989405	550.1749916	0.804939056	-0.313049
NMRK1	81.44753881	65.55629614	0.804889836	-0.313137
SUMF2	559.1263475	449.7659811	0.80440849	-0.314
TTC9C	231.1349074	185.8811435	0.804210604	-0.314355
TIGAR	33.01927249	26.55444907	0.804210604	-0.314355
INHA	16.50963624	13.27722453	0.804210604	-0.314355
WDR93	16.50963624	13.27722453	0.804210604	-0.314355
LINC01359	16.50963624	13.27722453	0.804210604	-0.314355
TERB1	16.50963624	13.27722453	0.804210604	-0.314355
THAP12P7	16.50963624	13.27722453	0.804210604	-0.314355
ENSG000002	16.50963624	13.27722453	0.804210604	-0.314355
CTTNBP2NL	1019.194877	819.0387884	0.803613525	-0.315426
THOC7	618.561038	497.0660935	0.80358455	-0.315478
POR	753.9400552	605.7733694	0.803476835	-0.315672
ALDH18A1	1163.379034	934.3846766	0.803164445	-0.316233
RIPOR3	50.62955115	40.66150013	0.803117926	-0.316316
TRAPPC2	151.8886534	121.9845004	0.803117926	-0.316316
WDR20	844.1927333	677.9682778	0.803096557	-0.316355
PHLDB2	930.0428418	746.84388	0.803020943	-0.31649
PDE4A	136.4796596	109.5371024	0.802589212	-0.317266
MCUR1P1	34.11991491	27.3842756	0.802589212	-0.317266
SBF1	939.9486235	754.3123188	0.802503775	-0.31742
DENND2D	478.7794511	384.2096849	0.802477391	-0.317467
RIOK3	462.2698148	370.9324604	0.802415491	-0.317579
ABCB8	205.8201318	165.1354801	0.802329095	-0.317734
STAT1	3441.708836	2760.832877	0.802169215	-0.318021
AHCYL1	2188.077124	1755.083118	0.802112092	-0.318124
TP53INP1	638.3726015	512.0029711	0.802044088	-0.318247
FBXO25	518.4025781	415.7430932	0.801969571	-0.318381
ZCCHC4	138.6809445	111.1967555	0.80181712	-0.318655
SLC9B2	86.95075089	69.7054288	0.801665634	-0.318927
UBE2V1	86.95075089	69.7054288	0.801665634	-0.318927
ATG7	527.2077174	422.3817055	0.801167531	-0.319824
NTRK2	193.7130653	155.1775617	0.801069156	-0.320001
CCDC74A	52.83083598	42.3211532	0.801069156	-0.320001
ENSG000002	52.83083598	42.3211532	0.801069156	-0.320001
KCP	17.61027866	14.10705107	0.801069156	-0.320001
SIGLEC12	17.61027866	14.10705107	0.801069156	-0.320001
PSMF1	969.6659688	776.7176352	0.80101567	-0.320098
JMJD1C	10888.65542	8719.817213	0.80081671	-0.320456
TMEM234	141.9828717	113.6862351	0.800703872	-0.320659
ZC3H4	1105.044986	884.5950846	0.800505948	-0.321016
RPS15P4	71.54175706	57.2580308	0.800344207	-0.321307
HDX	430.3511848	344.3780113	0.800225545	-0.321521
PAPOLG	541.5160688	433.1694504	0.799919846	-0.322073
ACO2	1068.723786	854.7213294	0.799758872	-0.322363
RHBDD2	399.5331971	319.4832153	0.799641225	-0.322575
CDC42BPA	5895.040782	4713.41471	0.799555912	-0.322729
ADGRG1	567.9314868	453.9151138	0.799242733	-0.323294
PTCH1	1340.582463	1071.306055	0.799134767	-0.323489
MAP1A	680.1970133	543.5363794	0.799086689	-0.323576
SEC22C	257.5503254	205.7969803	0.799055408	-0.323633
ARRDC3	1620.145637	1294.529392	0.799020386	-0.323696
CYGB	73.74304189	58.91768387	0.798959229	-0.323806
AP1G1	1468.256983	1172.544892	0.798596502	-0.324461
B4GALT7	353.3062156	282.1410213	0.798573614	-0.324503
TNPO2	1009.289096	805.7615639	0.798345655	-0.324915
CDAN1	205.8201318	164.3056536	0.798297291	-0.325002
MYBPC3	18.71092108	14.9368776	0.798297291	-0.325002
SAXO1	18.71092108	14.9368776	0.798297291	-0.325002
SPHK1	18.71092108	14.9368776	0.798297291	-0.325002
DAAM2	243.241974	194.1794088	0.798297291	-0.325002
IGFBP3	264.1541799	210.7759395	0.797927709	-0.32567
KCNJ8	379.7216336	302.8866847	0.797654539	-0.326164
ANKZF1	303.7773069	242.3093477	0.797654539	-0.326164
OGFOD1	475.4775238	379.2307257	0.797578659	-0.326301
RAD9A	133.1777324	106.2177963	0.797564235	-0.326327
ATG12	190.411138	151.8582556	0.797528218	-0.326393
HCFC2	593.2462624	473.001124	0.79730991	-0.326787
ZC2HC1A	709.9143585	565.9416958	0.797197139	-0.326992
RXRA	654.8822377	521.9608895	0.797030152	-0.327294
TLR2	250.9464709	199.9881945	0.796935672	-0.327465
RIOK2	347.8030036	277.1620621	0.796893814	-0.327541
RRP7A	214.6252712	170.9442659	0.79647781	-0.328294
ANGEL1	390.7280578	311.18495	0.796423353	-0.328393
WDR55	195.9143501	156.0073883	0.796304039	-0.328609
PPARA	431.4518272	343.5481848	0.796260818	-0.328687
NDUFS7	215.7259136	171.7740924	0.796260818	-0.328687
CWC27	594.3469048	473.001124	0.79583341	-0.329462
MFSD10	79.24625397	63.06681654	0.79583341	-0.329462
OBSCN-AS1	39.62312699	31.53340827	0.79583341	-0.329462
CPNE5	19.81156349	15.76670413	0.79583341	-0.329462
PLAC8L1	19.81156349	15.76670413	0.79583341	-0.329462
ENSG000002	19.81156349	15.76670413	0.79583341	-0.329462
ENSG000002	19.81156349	15.76670413	0.79583341	-0.329462
NAPA	715.4175706	569.2610019	0.79570453	-0.329695
ZNF790	280.6638162	223.2233375	0.795340634	-0.330355

SLC25A14P1	6.603854498	2.222345463	0.336522475	-1.571225
ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
FTH1P16	6.603854498	2.222345463	0.336522475	-1.571225
CTAGE3P	6.603854498	2.222345463	0.336522475	-1.571225
HDAC1P2	6.603854498	2.222345463	0.336522475	-1.571225
PRKAR1AP1	6.603854498	2.222345463	0.336522475	-1.571225
PIRT	6.603854498	2.222345463	0.336522475	-1.571225
LINC01135	6.603854498	2.222345463	0.336522475	-1.571225
RPL7P15	6.603854498	2.222345463	0.336522475	-1.571225
GSK3B-DT	6.603854498	2.222345463	0.336522475	-1.571225
ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
LUCAT1	6.603854498	2.222345463	0.336522475	-1.571225
EEF1A1P19	6.603854498	2.222345463	0.336522475	-1.571225
ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
VPS13B-DT	6.603854498	2.222345463	0.336522475	-1.571225
KDM2B-DT	6.603854498	2.222345463	0.336522475	-1.571225
PHB1P19	6.603854498	2.222345463	0.336522475	-1.571225
LINC02301	6.603854498	2.222345463	0.336522475	-1.571225
DOCK11P1	6.603854498	2.222345463	0.336522475	-1.571225
ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
ZNRD2-DT	6.603854498	2.222345463	0.336522475	-1.571225
ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
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LINC00663	6.603854498	2.222345463	0.336522475	-1.571225
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ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
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ENSG000002	6.603854498	2.222345463	0.336522475	-1.571225
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ZBED1	6.603854498	2.222345463	0.336522475	-1.571225
WNT8A	3.301927249	1.111172731	0.336522475	-1.571225
FGF4	3.301927249	1.111172731	0.336522475	-1.571225
CPA1	3.301927249	1.111172731	0.336522475	-1.571225
TNFSF18	3.301927249	1.111172731	0.336522475	-1.571225
FXYD2	3.301927249	1.111172731	0.336522475	-1.571225
FAM83A	3.301927249	1.111172731	0.336522475	-1.571225
VAX1	3.301927249	1.111172731	0.336522475	-1.571225
DSPP	3.301927249	1.111172731	0.336522475	-1.571225
COX6B2	3.301927249	1.111172731	0.336522475	-1.571225
NAPEPLD	3.301927249	1.111172731	0.336522475	-1.571225
IL24	3.301927249	1.111172731	0.336522475	-1.571225
CAMK2N2	3.301927249	1.111172731	0.336522475	-1.571225
UNCX	3.301927249	1.111172731	0.336522475	-1.571225
PTF1A	3.301927249	1.111172731	0.336522475	-1.571225
SFTPC	3.301927249	1.111172731	0.336522475	-1.571225
SAA1	3.301927249	1.111172731	0.336522475	-1.571225
RBMXL3	3.301927249	1.111172731	0.336522475	-1.571225
FOXN3P1	3.301927249	1.111172731	0.336522475	-1.571225
MAGEB18	3.301927249	1.111172731	0.336522475	-1.571225
ACOT4	3.301927249	1.111172731	0.336522475	-1.571225
TPRXL	3.301927249	1.111172731	0.336522475	-1.571225
CLDN7	3.301927249	1.111172731	0.336522475	-1.571225
TRIM49B	3.301927249	1.111172731	0.336522475	-1.571225
RESP18	3.301927249	1.111172731	0.336522475	-1.571225
WT1-AS	3.301927249	1.111172731	0.336522475	-1.571225
OR52E8	3.301927249	1.111172731	0.336522475	-1.571225
MINAR2	3.301927249	1.111172731	0.336522475	-1.571225
OR13F1	3.301927249	1.111172731	0.336522475	-1.571225
NPIPP1	3.301927249	1.111172731	0.336522475	-1.571225
GUSBP13	3.301927249	1.111172731	0.336522475	-1.571225
ABHD17AP1	3.301927249	1.111172731	0.336522475	-1.571225
LORICRIN	3.301927249	1.111172731	0.336522475	-1.571225
HNRNPA1P2	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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MIR149	3.301927249	1.111172731	0.336522475	-1.571225
TRAV17	3.301927249	1.111172731	0.336522475	-1.571225
TRAV18	3.301927249	1.111172731	0.336522475	-1.571225
SNORD67	3.301927249	1.111172731	0.336522475	-1.571225
U3.2	3.301927249	1.111172731	0.336522475	-1.571225
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LAT	3.301927249	1.111172731	0.336522475	-1.571225
PGAM1P7	3.301927249	1.111172731	0.336522475	-1.571225
NPIPA8	3.301927249	1.111172731	0.336522475	-1.571225
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TACC1P1	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
PPP1R26-AS1	3.301927249	1.111172731	0.336522475	-1.571225
TRMT2B-AS	3.301927249	1.111172731	0.336522475	-1.571225
HSPE1P13	3.301927249	1.111172731	0.336522475	-1.571225
MRPL35P3	3.301927249	1.111172731	0.336522475	-1.571225
WDR11-DT	3.301927249	1.111172731	0.336522475	-1.571225
ST7-AS1	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
HNRNPA1P2	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
PERPP2	3.301927249	1.111172731	0.336522475	-1.571225
EIF2S2P2	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ME2P1	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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RALGAPA1	3020.568581	3316.850603	0.910673691	-0.134994
RRM2B	899.5319622	987.8325582	0.910611778	-0.135092
ENSG000002	32.3632348	35.55752741	0.910165503	-0.135799
ACTB	11069.88596	12162.89672	0.910135654	-0.135847
ST3GAL4	152.6880821	167.7870824	0.910010949	-0.136044
ZNF329	393.3377768	432.2461925	0.909985521	-0.136085
WDR83	55.59837774	61.11450023	0.909741183	-0.136472
KDM5B	3157.489959	3471.303613	0.909597751	-0.136699
RPL34	399.1465625	438.9132289	0.90939743	-0.137017
RAP2C	241.4795212	265.5702828	0.909286682	-0.137193
GET1	69.7054288	76.67091847	0.909150825	-0.137408
B3GNTL1	23.23514293	25.55697282	0.909150825	-0.137408
PLCXD3	23.23514293	25.55697282	0.909150825	-0.137408
PPCDC	46.47028587	51.11394565	0.909150825	-0.137408
TMEM187	46.47028587	51.11394565	0.909150825	-0.137408
AP2B1	2565.823641	2822.378738	0.909099692	-0.13749
MAP2K6	223.2233375	245.5691736	0.909003904	-0.137642
ATP5F1A	1400.747188	1541.196579	0.908869905	-0.137854
CDK2AP1	279.6515417	307.7948466	0.90856473	-0.138339
GNL3L	849.7423702	935.6074399	0.908225324	-0.138878
MMUT	1424.812158	1568.975897	0.908116027	-0.139051
PPP1CA	1351.787423	1488.97146	0.907866577	-0.139448
SPTY2D1	552.6644712	608.9226568	0.907610293	-0.139855
PLBD2	988.3234012	1088.949277	0.907593606	-0.139882
PUS1	224.8829905	247.7915191	0.907549182	-0.139952
CCDC146	93.77039827	103.339064	0.907405144	-0.140181
GAB2	337.7393991	372.242865	0.907309262	-0.140334
TRAPPC9	3267.856888	3602.421995	0.90712773	-0.140622
STX19	28.21410213	31.11283648	0.906831563	-0.141093
SLCO1A2	14.10705107	15.55641824	0.906831563	-0.141093
STX11	14.10705107	15.55641824	0.906831563	-0.141093
JPH3	14.10705107	15.55641824	0.906831563	-0.141093
UBQLN3	42.3211532	46.66925472	0.906831563	-0.141093
TRAP1	1270.464423	1401.188814	0.906704656	-0.141295
TSR3	329.4411337	363.3534832	0.906668434	-0.141353
GRHPR	725.2683902	800.0443666	0.906535213	-0.141565
CDC42BPA	4713.41471	5200.288383	0.90637564	-0.141819
MRPL24	377.5710727	416.6897743	0.906120323	-0.142225
TMEM201	231.5216028	255.5697282	0.905903858	-0.14257
DBNL	401.6360421	443.3579198	0.90589572	-0.142583
MED13L	6168.100623	6811.488844	0.905543672	-0.143144
SND1	2004.860905	2214.567254	0.905305947	-0.143523
CYREN	132.7722453	146.6748005	0.905215107	-0.143667
PEX3	284.6305009	314.461883	0.905135141	-0.143795
WDFY2	284.6305009	314.461883	0.905135141	-0.143795
FBXO34	646.4348695	714.4840663	0.904757573	-0.144397
COX8A	161.816174	178.8988098	0.904512301	-0.144788
MYCBP2	3461.206471	3826.878887	0.904446305	-0.144893
PRMT6	457.2344199	505.5835928	0.904369577	-0.145016
NLRC4	38.17202053	42.22456379	0.904024035	-0.145567
KIAA1549	697.054288	771.1538756	0.903910763	-0.145748
SLC35A5	530.2591548	586.6992022	0.903800709	-0.145923
BAX	363.4640216	402.2445288	0.903589721	-0.14626
ZCCHC3	263.0550111	291.1272556	0.903573973	-0.146285
CFAP251	143.5599903	158.8977006	0.903474309	-0.146445
FDXACB1	43.15097974	47.78042745	0.903109956	-0.147026
TSNARE1	494.5766139	547.8081566	0.90282813	-0.147477
ATP6V0A1	1316.934708	1458.969796	0.902646999	-0.147766
HINT3	120.3248473	133.3407278	0.90238631	-0.148183
COL19A1	24.06496947	26.66814555	0.90238631	-0.148183
ENSG000002	24.06496947	26.66814555	0.90238631	-0.148183
STAG3L4	24.06496947	26.66814555	0.90238631	-0.148183
RCAN2	149.368776	165.564737	0.902177473	-0.148517
RPS6	6672.635155	7398.188046	0.901928298	-0.148915
GATM	53.10889814	58.89215477	0.901799201	-0.149122
SMG9	347.6973175	385.5769378	0.901758594	-0.149187
DHDDS	241.4795212	267.7926283	0.901740734	-0.149215
CIPC	386.6991645	428.9126743	0.901580176	-0.149472
ADPRS	160.1565209	177.787637	0.900830472	-0.150672
ZBTB25	422.3817055	468.9148927	0.900764109	-0.150779
KSR1	228.2022967	253.3473828	0.900748586	-0.150804
SUGCT	34.02288787	37.77987287	0.900555912	-0.151112
BABAM2	520.3012364	577.8098203	0.900471432	-0.151248
MRC1	1381.661178	1534.529542	0.900380957	-0.151393
PRICKLE3	214.0952456	237.7909645	0.900350634	-0.151441
UCK1	229.0321232	254.4585555	0.900076332	-0.151881
CTNS	156.0073883	173.3429461	0.899992713	-0.152015
MARCHF1	39.00184707	43.33573653	0.899992713	-0.152015
GPSM1	277.9918887	308.9060193	0.899923832	-0.152125
SHPRH	2124.355925	2361.242054	0.899677321	-0.15252
ANGEL2	722.7789106	803.3778848	0.89967489	-0.152524
HAVCR2	43.98080627	48.89160018	0.899557513	-0.152713
RIPK4	273.842756	304.4613284	0.899433624	-0.152911
ADRA2A	278.8217152	310.0171921	0.89937501	-0.153005
SPPL3	887.0845642	986.7213855	0.899022335	-0.153571
NACC2	377.5710727	420.0232925	0.898928891	-0.153721
ZNF444	117.8353677	131.1183823	0.89869449	-0.154097
TRAM2	299.5673785	333.3518194	0.898652298	-0.154165
GPHN	811.5703496	903.3834307	0.898367539	-0.154622
NAT14	68.87560227	76.67091847	0.898327601	-0.154686
CLDN1	167.6249597	186.6770189	0.897941057	-0.155307
HLCS	602.4540632	671.1483298	0.89764667	-0.15578
TBC1D5	929.4057174	1035.612986	0.897445021	-0.156105
FAM114A2	282.1410213	314.461883	0.897218508	-0.156469
ZNF790	223.2233375	248.9026918	0.896829744	-0.157094
CTBP2	864.6792478	964.4979309	0.896507105	-0.157613
HCFC1	6078.479357	6780.376007	0.896481161	-0.157655
SMAGP	39.8316736	44.44690926	0.896162956	-0.158167
ENSG000002	34.8527144	38.8910456	0.896162956	-0.158167
GNMT	19.9158368	22.22345463	0.896162956	-0.158167

CFAP251	180.5053563	143.5599903	0.795322606	-0.330388
FAM161B	141.9828717	112.8564085	0.794859318	-0.331229
CSRP1	1460.552486	1160.92732	0.794854913	-0.331237
TCERG1	1807.254848	1436.429729	0.794813045	-0.331313
TRMU	203.618847	161.816174	0.794701357	-0.331515
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XPOT	2246.411172	1784.956873	0.794581551	-0.331733
RPL10	2042.792325	1623.140699	0.794569609	-0.331754
NMI	245.4432588	195.0092353	0.794518604	-0.331847
TBK1	821.0792426	652.2436552	0.794373577	-0.33211
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SPRY1	246.5439013	195.8390619	0.794337483	-0.332176
FOXL2	61.63597531	48.95976547	0.794337483	-0.332176
ETV1	514.0000084	408.2746544	0.794308653	-0.332228
GLTP	514.0000084	408.2746544	0.794308653	-0.332228
CERT1	762.7451945	605.7733694	0.794201489	-0.332423
WDR36	895.9229269	711.1613391	0.793775132	-0.333198
RPL7AP6	62.73661773	49.789592	0.793628885	-0.333464
PCK2	20.91220591	16.59653067	0.793628885	-0.333464
USP25	1575.019298	1249.718759	0.793462506	-0.333766
FRRS1	147.4860838	117.0055412	0.793332755	-0.334002
ENSG000002	442.4582514	351.0166236	0.793332755	-0.334002
NCKIPSD	296.07281	234.8409089	0.793186341	-0.334268
MDM1	318.0856583	252.2672661	0.793079661	-0.334462
TSEN2	553.6231354	438.9782362	0.792918879	-0.334755
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DIP2B	1479.263408	1172.544892	0.792654564	-0.335236
BCAM	2649.246296	2099.461129	0.792474876	-0.335563
TP53RK	172.8008594	136.921378	0.792365145	-0.335763
EXOC3	822.179885	651.4138287	0.792300858	-0.33588
TTC33	217.9271984	172.6039189	0.792025595	-0.336381
ACOT8	130.9764475	103.7283167	0.791961598	-0.336498
PIK3C3	895.9229269	709.501686	0.791922681	-0.336569
PITPNB	615.2591107	487.1081751	0.79171225	-0.336952
ENSG000002	22.01284833	17.4263572	0.791644813	-0.337075
MSRB2	199.2162773	157.6670413	0.79143654	-0.337454
DNAJC4	222.3297681	175.9232251	0.791271572	-0.337755
FCHO1	67.13918739	53.10889814	0.791026823	-0.338201
CINP	427.0492575	337.7393991	0.790867548	-0.338492
PLEKHA2	427.0492575	337.7393991	0.790867548	-0.338492
EIF3M	1173.284816	927.7460643	0.790725365	-0.338751
FAM219B	91.35332055	72.1949084	0.790282258	-0.33956
TERF2	480.9807359	380.0605523	0.790178325	-0.33975
FBXW5	826.5824546	653.0734818	0.79008873	-0.339913
ESCO1	1033.503229	816.5493088	0.790079108	-0.339931
TAF6	713.2162858	563.4522162	0.790015914	-0.340046
PPHLN1	578.937911	457.2344199	0.789781445	-0.340475
STAMBP	440.2569665	347.6973175	0.789759945	-0.340514
SFXN4	209.1220591	165.1354801	0.789660741	-0.340695
ZFYVE21	186.0085684	146.8792964	0.789637261	-0.340738
CDK12	3163.246304	2497.777865	0.789624843	-0.340761
THAP7	187.1092108	147.7091229	0.789427321	-0.341122
COMMD10	211.3233439	166.7951332	0.789288727	-0.341375
FKBP15	1222.813725	965.0882583	0.78923571	-0.341472
CHST9	47.3276239	37.342194	0.789014764	-0.341876
NSRP1	620.7623228	489.5976547	0.788703883	-0.342444
CD164	1553.006449	1224.823963	0.788679251	-0.342489
ZRANB2	1530.993601	1207.397606	0.788636612	-0.342567
NCF2	191.5117804	151.0284291	0.788611691	-0.342613
CASP8	311.4818038	245.6286539	0.788581069	-0.342669
ENSG000002	24.21413316	19.08601027	0.788217779	-0.343334
TRAPPC13	217.9271984	171.7740924	0.788217779	-0.343334
ZNF616	609.7558986	480.4695628	0.78797034	-0.343787
PLSCR4	220.1284833	173.4337455	0.787875076	-0.343961
PCDHGA2	97.95717505	77.1738676	0.787832719	-0.344039
COASY	587.7430503	463.0432056	0.787832719	-0.344039
PHF23	637.271959	502.0450527	0.787803457	-0.344092
BMP5	271.8586768	214.0952456	0.787524048	-0.344604
SMIM8	198.1156349	156.0073883	0.787456216	-0.344728
RWDD3	49.52890873	39.00184707	0.787456216	-0.344728
LRRC51	99.05781747	78.00369414	0.787456216	-0.344728
NUDT4	346.7023611	273.0129295	0.787456216	-0.344728
TMEM179B	520.6038629	409.9343075	0.787420795	-0.344793
ANKFN1	175.0021442	137.7512045	0.787140096	-0.345308
MAVS	1003.785884	789.9948598	0.787015311	-0.345536
ASPN	25.31477557	19.9158368	0.786727765	-0.346064
CHST3	152.9892959	120.3248473	0.786491935	-0.346496
APOBEC3F	102.3597447	80.49317374	0.786375288	-0.34671
PDE8A	771.5503338	606.6031959	0.78621338	-0.347007
MCF2L2	128.7751627	101.2388371	0.786167417	-0.347092
WDR81	103.4603871	81.32300027	0.786030311	-0.347343
NEMF	2442.325522	1918.558945	0.785545959	-0.348232
ARID3B	105.661672	82.98265334	0.785361918	-0.34857
TBXA2R	26.41541799	20.74566333	0.785361918	-0.34857
LOXHD1	26.41541799	20.74566333	0.785361918	-0.34857
PJA2	3650.830895	2867.050673	0.785314564	-0.348657
HDAC3	423.7473303	332.7604399	0.785280322	-0.34872
DGLUCY	212.4239863	166.7951332	0.785199149	-0.348869
ETHE1	186.0085684	146.0494699	0.785176033	-0.348912
PLCG1	2024.081404	1589.117811	0.785105682	-0.349041
MIEF1	267.4561072	209.9461129	0.784974085	-0.349283
GYG1	347.8030036	273.0129295	0.784964266	-0.349301
PDAP1	803.4689639	630.6681654	0.784931583	-0.349361
BRI3	322.488228	253.0970927	0.784825835	-0.349556
WIPF2	835.387594	655.5629614	0.784741078	-0.349711
TMEM243	53.9314784	42.3211532	0.784720806	-0.349749
MTRR	542.6167112	425.7010116	0.784533544	-0.350093
TUSC2	81.44753881	63.89664307	0.784512878	-0.350131
C11orf80	841.9914485	660.5419206	0.78449956	-0.350155
RNF169	735.2291341	576.7294407	0.784421365	-0.350299

RPS23P8	3.301927249	1.111172731	0.336522475	-1.571225
RFKP4	3.301927249	1.111172731	0.336522475	-1.571225
LINC00486	3.301927249	1.111172731	0.336522475	-1.571225
LINC02976	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
LINC01090	3.301927249	1.111172731	0.336522475	-1.571225
DEPDC1P2	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
RAB1C	3.301927249	1.111172731	0.336522475	-1.571225
LINC00702	3.301927249	1.111172731	0.336522475	-1.571225
TMEM18-DT	3.301927249	1.111172731	0.336522475	-1.571225
NKAPP1	3.301927249	1.111172731	0.336522475	-1.571225
KRT8P15	3.301927249	1.111172731	0.336522475	-1.571225
MYCNOS	3.301927249	1.111172731	0.336522475	-1.571225
PSIP1P1	3.301927249	1.111172731	0.336522475	-1.571225
LINC01524	3.301927249	1.111172731	0.336522475	-1.571225
NKX1-1	3.301927249	1.111172731	0.336522475	-1.571225
LINC02245	3.301927249	1.111172731	0.336522475	-1.571225
LINC02918	3.301927249	1.111172731	0.336522475	-1.571225
EIF4HP2	3.301927249	1.111172731	0.336522475	-1.571225
HTR3E-AS1	3.301927249	1.111172731	0.336522475	-1.571225
DBTP1	3.301927249	1.111172731	0.336522475	-1.571225
RN7SL258P	3.301927249	1.111172731	0.336522475	-1.571225
AMACR	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
LINC01391	3.301927249	1.111172731	0.336522475	-1.571225
LINC02447	3.301927249	1.111172731	0.336522475	-1.571225
FZD4-DT	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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PCDHA10	3.301927249	1.111172731	0.336522475	-1.571225
WBP1LP2	3.301927249	1.111172731	0.336522475	-1.571225
LINC00923	3.301927249	1.111172731	0.336522475	-1.571225
MIR3142HG	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
KRT18P37	3.301927249	1.111172731	0.336522475	-1.571225
CKS1BP7	3.301927249	1.111172731	0.336522475	-1.571225
SDHCP4	3.301927249	1.111172731	0.336522475	-1.571225
EMSY-DT	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
SHLD2P2	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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SLC30A4-AS	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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CDK13-DT	3.301927249	1.111172731	0.336522475	-1.571225
TEDC2-AS1	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
CSPG4P13	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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NQO1-DT	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ATP5F1AP3	3.301927249	1.111172731	0.336522475	-1.571225
SP2-DT	3.301927249	1.111172731	0.336522475	-1.571225
LRRC37A7P	3.301927249	1.111172731	0.336522475	-1.571225
PCAT18	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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LINC03049	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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ZNF516-DT	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
GOLGA6L17	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ZNF426-DT	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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JAKMIP2-AS	3.301927249	1.111172731	0.336522475	-1.571225
PLD5P1	3.301927249	1.111172731	0.336522475	-1.571225
LINC02929	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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PSMC1P1	19.9158368	22.22345463	0.896162956	-0.158167
GABRP	9.9579184	11.11172731	0.896162956	-0.158167
NIPAL4	9.9579184	11.11172731	0.896162956	-0.158167
THBS4-AS1	9.9579184	11.11172731	0.896162956	-0.158167
ENSG000002	9.9579184	11.11172731	0.896162956	-0.158167
CDH20	4.9789592	5.555863657	0.896162956	-0.158167
MSLN	4.9789592	5.555863657	0.896162956	-0.158167
CKM	4.9789592	5.555863657	0.896162956	-0.158167
RBPJL	4.9789592	5.555863657	0.896162956	-0.158167
IL6	4.9789592	5.555863657	0.896162956	-0.158167
GCOM1	4.9789592	5.555863657	0.896162956	-0.158167
KCNA10	4.9789592	5.555863657	0.896162956	-0.158167
CLTRN	4.9789592	5.555863657	0.896162956	-0.158167
AMN	4.9789592	5.555863657	0.896162956	-0.158167
KRT75	4.9789592	5.555863657	0.896162956	-0.158167
NHERF4	4.9789592	5.555863657	0.896162956	-0.158167
MAP6D1	4.9789592	5.555863657	0.896162956	-0.158167
ENSG000002	4.9789592	5.555863657	0.896162956	-0.158167
ENSG000002	4.9789592	5.555863657	0.896162956	-0.158167
SLC25A5P5	4.9789592	5.555863657	0.896162956	-0.158167
ELF2P3	4.9789592	5.555863657	0.896162956	-0.158167
RPEP4	4.9789592	5.555863657	0.896162956	-0.158167
RPL21P10	4.9789592	5.555863657	0.896162956	-0.158167
KRT8P33	4.9789592	5.555863657	0.896162956	-0.158167
ENSG000002	4.9789592	5.555863657	0.896162956	-0.158167
ENSG000002	4.9789592	5.555863657	0.896162956	-0.158167
CERS2	697.054288	777.820912	0.896162956	-0.158167
CACNA1I	29.8737552	33.33518194	0.896162956	-0.158167
LY86	14.9368776	16.66759097	0.896162956	-0.158167
PIP4P1	14.9368776	16.66759097	0.896162956	-0.158167
ZCWPW1	99.579184	111.1172731	0.896162956	-0.158167
STRBP	3642.108655	4064.669852	0.896040463	-0.158364
ATXN10	872.9775131	974.4984855	0.89582234	-0.158715
LARP1	1808.192016	2019.000853	0.895587544	-0.159094
HIVEP1	2316.045855	2586.810119	0.895328899	-0.15951
KIZ	340.2288787	380.0210742	0.895289503	-0.159574
MTMR12	805.7615639	900.0499125	0.895240978	-0.159652
DLGAP4	896.212656	1001.166631	0.895168325	-0.159769
ZNF394	280.4813683	313.3507103	0.895103662	-0.159873
ATP1A1	7270.940085	8124.895012	0.894896497	-0.160207
BCL7C	225.7128171	252.23621	0.894847005	-0.160287
FAM222B	928.5758908	1037.835331	0.894723722	-0.160486
GPRASP1	321.9726949	360.019965	0.894319	-0.161139
IFT20	80.49317374	90.00499125	0.894319	-0.161139
ZFP37	121.1546739	135.5630732	0.893714424	-0.162114
HERC5	469.6818179	525.584702	0.893636775	-0.16224
SOWAHC	156.8372148	175.5652916	0.893326998	-0.16274
TRAPPC6A	96.25987787	107.7837549	0.893083359	-0.163133
LETMD1	288.7796336	323.3512648	0.893083359	-0.163133
TBC1D22A	365.1236747	408.9115652	0.892915989	-0.163404
GNG12	223.2233375	250.0138646	0.892843834	-0.16352
CD74	1701.144393	1905.661234	0.89267933	-0.163786
TRPC4	40.66150013	45.55808199	0.892520018	-0.164044
TACC1	1255.527545	1406.744678	0.89250563	-0.164067
ACTR3C	35.68254093	40.00221833	0.892014054	-0.164862
SLC46A1	356.8254093	400.0221833	0.892014054	-0.164862
ATP9B	535.238114	600.033275	0.892014054	-0.164862
CEP104	565.9416958	634.4796297	0.891977724	-0.16492
PEX19	137.7512045	154.4530097	0.891864813	-0.165103
PMS2	541.0468998	606.7003114	0.891786092	-0.16523
NFXL1	731.0771759	820.0454758	0.89150809	-0.16568
NAB2	61.40716347	68.89270935	0.891344876	-0.165944
TINF2	30.70358173	34.44635467	0.891344876	-0.165944
UPK1A	30.70358173	34.44635467	0.891344876	-0.165944
PLA2G4A	30.70358173	34.44635467	0.891344876	-0.165944
MORN5	30.70358173	34.44635467	0.891344876	-0.165944
RUBCN	676.3086247	758.9309756	0.891133247	-0.166287
MAVS	789.9948598	886.7158397	0.890922237	-0.166629
IFT52	364.2938481	408.9115652	0.890886635	-0.166686
CCAR2	723.6087371	812.2672667	0.890850545	-0.166745
AP2S1	549.3451651	616.7008659	0.890780596	-0.166858
FAM106C	133.6020719	150.0083187	0.890631086	-0.1671
UBL5	925.2565847	1038.946504	0.890571922	-0.167196
DPY19L3	596.6452775	670.0371571	0.890465956	-0.167368
PKD1L3	25.72462253	28.89049102	0.890418322	-0.167445
TAS2R4	226.5426436	254.4585555	0.890292893	-0.167648
TRPM7	1390.78927	1562.30886	0.890214032	-0.167776
PTPRO	46.47028587	52.22511838	0.889807191	-0.168435
HMGCR	692.0753288	777.820912	0.889761792	-0.168509
TPST1	206.6268068	232.2351009	0.889731165	-0.168559
G3BP2	1890.344843	2125.673435	0.889292218	-0.169271
USP30	341.8885317	384.4657651	0.889256113	-0.169329
PRKAB1	295.4182459	332.2406467	0.889169488	-0.16947
ZIC2	518.6415834	583.365684	0.889050552	-0.169663
LIPG	41.49132667	46.66925472	0.889050552	-0.169663
FER1L4	20.74566333	23.33462736	0.889050552	-0.169663
OMA1	451.4256342	507.8059383	0.888972736	-0.169789
NFIL3	633.157645	712.2617209	0.888939594	-0.169843
KIF13B	1584.138852	1782.321061	0.888806673	-0.170058
RPL18A	677.9682778	763.3756665	0.888118796	-0.171175
BET1L	73.02473494	82.22678213	0.888089416	-0.171223
ZNF653	161.816174	182.232328	0.887966344	-0.171423
MPP7	516.9819303	582.2545113	0.887896822	-0.171536
EDC3	386.6991645	435.5797107	0.88778048	-0.171725
GFOD2	120.3248473	135.5630732	0.887593092	-0.17203
ASB1	309.5252969	348.9082377	0.88712522	-0.17279
GLG1	3537.550512	3987.998933	0.887049012	-0.172914
GNA11	892.8933499	1006.722495	0.886930961	-0.173106
MAP2K4	488.7678282	551.1416748	0.886827926	-0.173274
PCGF1	63.06681654	71.11505481	0.886827926	-0.173274
ANKRD62	31.53340827	35.55752741	0.886827926	-0.173274

IDS	435.8543969	341.8885317	0.784409964	-0.35032
KCNQ1	108.9635992	85.47213294	0.784409964	-0.35032
GRAMD1A	409.4389789	321.1428684	0.784348548	-0.350433
BBX	2022.980761	1586.628332	0.784302235	-0.350518
DCAF1	1466.055699	1149.309749	0.783946851	-0.351172
GALNT18	166.1970049	130.2827657	0.783905618	-0.351248
CCDC24	83.64882364	65.55629614	0.783708524	-0.351611
EPHB3	280.6638162	219.9040313	0.783514007	-0.351969
AVEN	84.74946605	66.38612267	0.783322017	-0.352323
CTNS	199.2162773	156.0073883	0.783105629	-0.352721
RNASET2	286.1670282	224.053164	0.78294542	-0.353016
ARMCX2	346.7023611	271.3532764	0.782669248	-0.353525
MAU2	491.9871601	385.0395115	0.782621057	-0.353614
DCTN6	319.1863007	249.7777865	0.782545448	-0.353754
TKT	1484.76662	1161.757147	0.782451014	-0.353928
NAMPTP1	178.3040714	139.4108576	0.78187142	-0.354997
BBS5	29.71734524	23.23514293	0.78187142	-0.354997
SDCBP2-AS1	29.71734524	23.23514293	0.78187142	-0.354997
PLA2G15	59.43469048	46.47028587	0.78187142	-0.354997
DTWD2	118.869381	92.94057174	0.78187142	-0.354997
DOP1B	2270.625305	1774.998955	0.781722529	-0.355271
SARS1	1225.015009	957.6198195	0.781720887	-0.355275
LACC1	90.25267814	70.53525534	0.781530884	-0.355625
FAM114A2	361.0107125	282.1410213	0.781530884	-0.355625
TAX1BP1	1928.325513	1506.964985	0.7814889	-0.355703
TBC1D17	332.3940097	259.7357049	0.781409103	-0.35585
RAP1A	455.6659603	355.9955828	0.781264377	-0.356117
ZNF821	151.8886534	118.6651943	0.781264377	-0.356117
SLIT3	304.8779493	238.1602151	0.78116576	-0.356299
IFT57	856.2997999	668.8401859	0.781081796	-0.356454
ZBTB49	152.9892959	119.4950208	0.781067853	-0.35648
ZNF785	183.8072835	143.5599903	0.781035373	-0.35654
RAC1	893.721642	697.8841146	0.780874135	-0.356838
ITPA	186.0085684	145.2196433	0.780714806	-0.357132
PRR14	560.2269899	437.3185831	0.78060963	-0.357327
ADCK2	156.2912231	121.9845004	0.780494886	-0.357539
CXCL17	62.73661773	48.95976547	0.780401737	-0.357711
IKZF5	786.9593277	614.0716347	0.78030924	-0.357882
GALNT7-DT	31.91863007	24.894796	0.779945629	-0.358555
ENSG000002	31.91863007	24.894796	0.779945629	-0.358555
PAQR7	160.6937928	125.3038065	0.779767559	-0.358884
ANKH	934.4454114	728.5876963	0.779700652	-0.359008
ACSL3	1898.608168	1479.580709	0.779297558	-0.359754
SLC35F6	231.1349074	180.0723577	0.779079023	-0.360158
SKOR1	33.01927249	25.72462253	0.779079023	-0.360158
PGM2	464.4710997	361.8043685	0.778959915	-0.360379
LITAF	700.0085768	545.1960324	0.778841932	-0.360598
SYTL4	401.7344819	312.8446031	0.778734754	-0.360796
ALAD	201.4175622	156.8372148	0.778667029	-0.360922
ZNF605	1014.792308	789.9948598	0.778479354	-0.361269
PCTP	408.3383364	317.8235623	0.778333881	-0.361539
ST3GAL6	136.4796596	106.2177963	0.778268326	-0.36166
HS1BP3	272.9593192	212.4355925	0.778268326	-0.36166
RRP12	239.9400468	186.71097	0.778156763	-0.361867
KHDC4	1313.066403	1021.516463	0.777962531	-0.362227
RAD54L2	760.5439097	591.6663183	0.777951556	-0.362248
MIPOL1	417.1434758	324.4621745	0.777819128	-0.362493
FAM120A	4776.788087	3715.13339	0.777747165	-0.362627
ZNF319	139.7815869	108.7072759	0.777693817	-0.362726
KCNAB3	35.22055732	27.3842756	0.777508299	-0.36307
CNPY4	105.661672	82.1528268	0.777508299	-0.36307
HMG20B	672.4925164	522.790716	0.777392615	-0.363285
PRPF4B	2240.90796	1741.805894	0.777276856	-0.3635
CCDC191	747.3362007	580.8785734	0.777265403	-0.363521
CERK	533.8115719	414.9132667	0.777265403	-0.363521
PFN1P1	178.3040714	138.5810311	0.777217424	-0.36361
STK39	1299.858694	1009.898891	0.776929751	-0.364144
MAP3K7	880.513933	683.7770635	0.776565864	-0.36482
RSPH3	660.3854498	512.8327976	0.776565864	-0.36482
RGPD3	111.164884	86.30195947	0.77634192	-0.365236
CYB561	482.0813783	374.2517665	0.776324877	-0.365268
ATG4B	969.6659688	752.6526658	0.776197876	-0.365504
EEF2	19077.435	14804.93518	0.776044326	-0.365789
ECPAS	7448.047231	5778.911978	0.775896258	-0.366064
BMP1	569.0321292	441.4677158	0.775822125	-0.366202
ATP9B	690.102795	535.238114	0.775591865	-0.36663
MOV10	845.2933757	655.5629614	0.775544894	-0.366718
HELZ	5541.734566	4296.84179	0.775360447	-0.367061
PER1	1821.563199	1412.36476	0.775358637	-0.367064
AKTIP	311.4818038	241.4795212	0.775260443	-0.367247
UBA3	748.4368431	580.0487468	0.77501362	-0.367706
NCOA6	7563.614685	5861.064805	0.774902616	-0.367913
STAC	39.62312699	30.70358173	0.774890426	-0.367936
ZC3HAV1	1407.72165	1090.392065	0.77457931	-0.368515
THUMPD1	1247.027858	965.9180848	0.774576188	-0.368521
DENND2A	201.4175622	156.0073883	0.774547098	-0.368575
LACTB	162.8950776	126.1336331	0.774324399	-0.36899
MRPL37	859.6017271	665.5208798	0.774220036	-0.369184
RNF114	708.8137161	548.5153386	0.77384978	-0.369875
CRTAP	1168.882246	904.5109214	0.773825528	-0.36992
RHCE	41.82441182	32.3632348	0.773788163	-0.369989
MFAP1	934.4454114	722.7789106	0.77348436	-0.370556
MAFK	85.85010847	66.38612267	0.773279427	-0.370938
PI4KA	2622.830878	2027.266221	0.772930591	-0.371589
ANKRD52	658.1841649	508.683665	0.772859166	-0.371723
TAF1L	44.02569665	34.02288787	0.772796127	-0.37184
PRDM10	530.5096447	409.9343075	0.772717917	-0.371986
CMTM3	89.15203572	68.87560227	0.772563427	-0.372275
C11orf96	89.15203572	68.87560227	0.772563427	-0.372275
C2orf42	183.8072835	141.9003372	0.772006062	-0.373316
LYPLAL1	738.5310613	570.0908284	0.771925323	-0.373467

ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
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ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
DPY19L2P3.1	3.301927249	1.111172731	0.336522475	-1.571225
ENSG000002	3.301927249	1.111172731	0.336522475	-1.571225
DNAH8-AS1	122.1713082	41.11339106	0.336522475	-1.571225
RASA3	66.03854498	22.22345463	0.336522475	-1.571225
SAXO2	66.03854498	22.22345463	0.336522475	-1.571225
NRG1	62.73661773	21.1122819	0.336522475	-1.571225
RAD51AP1	33.01927249	11.11172731	0.336522475	-1.571225
HSPA6	33.01927249	11.11172731	0.336522475	-1.571225
CAPN6	29.71734524	10.00055458	0.336522475	-1.571225
NUDT13	29.71734524	10.00055458	0.336522475	-1.571225
HHAT	16.50963624	5.555863657	0.336522475	-1.571225
DOK5	16.50963624	5.555863657	0.336522475	-1.571225
CKM	16.50963624	5.555863657	0.336522475	-1.571225
IER3IP1	16.50963624	5.555863657	0.336522475	-1.571225
CCDC83	16.50963624	5.555863657	0.336522475	-1.571225
DIRAS3	16.50963624	5.555863657	0.336522475	-1.571225
LRRC2	16.50963624	5.555863657	0.336522475	-1.571225
KCTD8	16.50963624	5.555863657	0.336522475	-1.571225
ENSG000002	16.50963624	5.555863657	0.336522475	-1.571225
TRAJ36	16.50963624	5.555863657	0.336522475	-1.571225
ENSG000002	16.50963624	5.555863657	0.336522475	-1.571225
PIF1	26.41541799	8.889381852	0.336522475	-1.571225
ICOSLG	26.41541799	8.889381852	0.336522475	-1.571225
ANXA8	26.41541799	8.889381852	0.336522475	-1.571225
KLHL10	13.207709	4.444690926	0.336522475	-1.571225
AGR3	13.207709	4.444690926	0.336522475	-1.571225
MESP2	13.207709	4.444690926	0.336522475	-1.571225
ENSG000002	13.207709	4.444690926	0.336522475	-1.571225
PRELID1P6	13.207709	4.444690926	0.336522475	-1.571225
RPL24P8	13.207709	4.444690926	0.336522475	-1.571225
ENSG000002	13.207709	4.444690926	0.336522475	-1.571225
ENSG000002	13.207709	4.444690926	0.336522475	-1.571225
ENSG000002	13.207709	4.444690926	0.336522475	-1.571225
EIF2S3B	872.8094361	293.3496011	0.336098109	-1.573046
MALT1	854.098515	286.6825647	0.335655149	-1.574948
LOXL1	281.7644586	94.44968217	0.335207934	-1.576872
H2BC18	795.764467	266.6814555	0.335126117	-1.577224
PSIP1	1857.884399	622.2567296	0.334927582	-1.578079
MOCS2	408.3383364	136.674246	0.334708338	-1.579024
MTHFD2	199.2162773	66.67036389	0.334663235	-1.579218
CNTN4	338.9978642	113.3396186	0.334337265	-1.580624
SP140	166.1970049	55.55863657	0.33429385	-1.580811
TFEC	166.1970049	55.55863657	0.33429385	-1.580811
IL16	485.3833056	162.2312188	0.334233207	-1.581073
COL4A1	2361.978625	788.9326393	0.334013454	-1.582022
CBFA2T3	113.3661689	37.77987287	0.333255267	-1.5853
CSGALNACT	744.0342734	247.7915191	0.333037775	-1.586242
EFEMP1	2219.995754	738.9298664	0.332851928	-1.587048
FBP1	293.8715252	97.78320037	0.332741324	-1.587527
PDE7A	851.8972302	283.3490465	0.332609423	-1.588099
PAIP2	996.0813867	331.129474	0.332432147	-1.588868
SCNN1A	1083.032138	360.019965	0.332418543	-1.588927
SPART	1611.340497	535.5852566	0.332384904	-1.589073
ZNF576	86.95075089	28.89049102	0.332262697	-1.589604
FOXJ2	672.4925164	223.345719	0.332116289	-1.59024
UBE2A	154.0899383	51.11394565	0.331715011	-1.591984
BORA	77.04496914	25.55697282	0.331715011	-1.591984
SPCS2P4	77.04496914	25.55697282	0.331715011	-1.591984
LCOR	965.2633991	320.0177467	0.331534115	-1.592771
MTMR10	73.74304189	24.44580009	0.331499752	-1.59292
GPM6B	140.8822293	46.66925472	0.331264312	-1.593945
RANBP1	140.8822293	46.66925472	0.331264312	-1.593945
RYR2	2730.693835	904.4946034	0.331232521	-1.594084
ZNF75D	278.4625313	92.22733671	0.331201962	-1.594217
FLNA	32889.39668	10892.82629	0.331195686	-1.594244
ZNF831	63.83726015	21.1122819	0.330720364	-1.596316
ARHGDIB	877.2120058	290.0160829	0.330611165	-1.596793
PWWP2A	1045.610295	345.5747195	0.330500494	-1.597276
ZNF714	461.1691724	152.2306642	0.330097225	-1.599037
CCNK	2347.670274	774.4873938	0.329896154	-1.599916
H2BC6	107.8629568	35.55752741	0.32965467	-1.600973
NUP50	665.8886619	218.9010281	0.328735178	-1.605002
ENSG000002	47.3276239	15.55641824	0.328696371	-1.605173
RUNX1T1	504.0942267	165.564737	0.328440058	-1.606298
RTKN2	179.4047139	58.89215477	0.328264255	-1.60707
KDELR2	1947.036434	638.9243206	0.328152216	-1.607563
FAM184A	348.903646	114.4507913	0.328029795	-1.608101
ZNF613	650.479668	213.3451644	0.327981296	-1.608315
SAMHD1	2199.083548	721.1511027	0.327932562	-1.608529
GLI1	210.2227015	68.89270935	0.327712987	-1.609495
TBX1	410.5396213	134.4519005	0.327500425	-1.610431
RBSN	40.7237694	13.33407278	0.327427273	-1.610754
CFAP210	40.7237694	13.33407278	0.327427273	-1.610754
PRDM1	278.4625313	91.11616398	0.327211577	-1.611704
CIBAR1	74.84368431	24.44580009	0.326624756	-1.614294
TNS3	2129.743076	695.5941299	0.32660941	-1.614362
ENSG000002	31.53340827	35.55752741	0.886827926	-0.173274
SMCR8	15.76670413	17.7787637	0.886827926	-0.173274
ZNF571-AS1	15.76670413	17.7787637	0.886827926	-0.173274
TUT4	2886.96651	3255.736103	0.886732345	-0.173429
EHBP1	573.4101346	646.7025297	0.88666753	-0.173535
TAX1BP1	1506.964985	1700.094279	0.886400833	-0.173969
TIE1	105.3879697	118.8954823	0.886391709	-0.173984
ZDHHC18	316.1639092	356.6864468	0.886391709	-0.173984
ADAMTS2	453.9151138	512.2506292	0.886119192	-0.174427
AGT	174.263572	196.6775735	0.886036821	-0.174561
GNAS	8085.829741	9126.061643	0.886015245	-0.174597
ZNF32	408.2746544	461.1366835	0.885365812	-0.175654
ASPH	2355.877528	2661.258692	0.88524935	-0.175844
SLC16A11	26.55444907	30.00166375	0.885099216	-0.176089
CRYZL1	479.6397363	542.2522929	0.884532426	-0.177013
RNF150	245.6286539	277.7931829	0.884214117	-0.177532
TECR	614.9014612	695.5941299	0.88399461	-0.177891
CILK1	1187.481769	1343.407832	0.883932445	-0.177992
NME4	305.3761643	345.5747195	0.883676227	-0.17841
DCAKD	396.6570829	448.9137835	0.883593014	-0.178546
MARK2	1072.965708	1214.511795	0.883454333	-0.178773
CARF	316.9937357	358.9087923	0.883215298	-0.179163
DISP1	586.6873591	664.4812934	0.882925321	-0.179637
KLHL12	544.3662059	616.7008659	0.882707056	-0.179993
TRAFD1	598.3049306	677.8153662	0.882696027	-0.180011
COPS4	355.9955828	403.3557015	0.88258473	-0.180193
SPON1	97.0897044	110.0061004	0.88258473	-0.180193
TPT1-AS1	75.51421454	85.56030032	0.88258473	-0.180193
TMED4	636.4769511	721.1511027	0.88258473	-0.180193
FZD10	10.78774493	12.22290005	0.88258473	-0.180193
IRF6	10.78774493	12.22290005	0.88258473	-0.180193
ACP7	10.78774493	12.22290005	0.88258473	-0.180193
OXCT2P1	10.78774493	12.22290005	0.88258473	-0.180193
ENSG000002	10.78774493	12.22290005	0.88258473	-0.180193
AMZ2P1.1	10.78774493	12.22290005	0.88258473	-0.180193
TMEM91	32.3632348	36.66870014	0.88258473	-0.180193
VEGFB	318.6533888	361.1311377	0.882375834	-0.180535
PCDH1	843.9335844	956.7197218	0.882111621	-0.180967
PARN	92.1107452	104.4502368	0.881862484	-0.181374
IFT122	905.3407479	1026.723604	0.881776502	-0.181515
AP4B1	326.1218276	370.0205196	0.881361466	-0.182194
COPB1	1576.670413	1788.988098	0.881319678	-0.182263
TIMM29	76.34404107	86.67147305	0.880843931	-0.183042
SLC37A2	38.17202053	43.33573653	0.880843931	-0.183042
MED23	790.8246863	897.827567	0.880820232	-0.18308
MYH9	6988.799064	7934.884475	0.880768849	-0.183165
DHX36	1435.599903	1630.090397	0.880687295	-0.183298
CLEC7A	82.1528268	93.33850944	0.880160046	-0.184162
STPG3-AS1	27.3842756	31.11283648	0.880160046	-0.184162
SLC25A17	170.1144393	193.3440553	0.879853477	-0.184665
CIAO1	428.1904912	486.6936564	0.879794683	-0.184761
LMTK2	1114.457034	1266.736914	0.879785709	-0.184776
DCP1A	357.6552359	406.6892197	0.879431316	-0.185357
DGKZP1	121.1546739	137.7854187	0.879299675	-0.185573
CPPED1	297.9077255	338.9076831	0.879023228	-0.186027
UQCR10	204.1373272	232.2351009	0.879011512	-0.186046
TBC1D1	1087.072759	1236.73525	0.878985829	-0.186088
CTH	49.789592	56.6698093	0.878591134	-0.186736
VPS25	398.316736	453.3584744	0.878591134	-0.186736
CA4	16.59653067	18.88993643	0.878591134	-0.186736
TFAP2C	182.5618373	207.7893008	0.878591134	-0.186736
CCDC71	204.9671537	233.3462736	0.878381945	-0.18708
ZFX	1136.862351	1294.516232	0.878214056	-0.187355
ZNF428	227.3724701	258.9032464	0.878214056	-0.187355
DOT1L	1270.464423	1446.746896	0.878152513	-0.187457
TMEM104	266.3743172	303.3501557	0.878108391	-0.187529
MARS2	160.9863475	183.3435007	0.878058654	-0.187611
HEBP2	721.949084	822.2678213	0.877997491	-0.187711
PEX13	355.9955828	405.578047	0.877748649	-0.18812
SLC36A1	406.6150013	463.359029	0.877537667	-0.188467
PSAT1	223.2233375	254.4585555	0.877248309	-0.188943
DHCR24	882.105605	1005.611322	0.877183446	-0.18905
LIPA	619.8804204	706.7058572	0.877140629	-0.18912
TRAF2	318.6533888	363.3534832	0.87697904	-0.189386
SMG1P4	22.4053164	25.55697282	0.876681153	-0.189876
A2M	2943.394714	3357.963994	0.876541475	-0.190106
BBOF1	117.8353677	134.4519005	0.876412809	-0.190318
AKTIP	241.4795212	275.5708374	0.876288375	-0.190522
KLF6	518.6415834	592.2550659	0.875706454	-0.191481
MBNL3	338.5692256	386.6881105	0.875561509	-0.19172
DOCK8	394.9974299	451.136129	0.875561509	-0.19172
MCM9	372.5921135	425.5791561	0.875494272	-0.19183
ACD	180.9021843	206.678128	0.875284608	-0.192176
CRTAP	904.5109214	1033.39064	0.875284608	-0.192176
FAM221A	96.25987787	110.0061004	0.875041271	-0.192577
SENP2	566.7715223	647.8137024	0.874898941	-0.192812
ANO8	419.8922259	480.02662	0.87472696	-0.193095
MIGA1	817.3791354	934.4962671	0.874673516	-0.193183
TFIP11	352.6762767	403.3557015	0.874355502	-0.193708
ENSG000001	39.8316736	45.55808199	0.874305323	-0.193791
ENSG000002	39.8316736	45.55808199	0.874305323	-0.193791
ARF1	1452.196433	1661.203234	0.874183486	-0.193992
ARHGAP42	85.47213294	97.78320037	0.874098338	-0.194132
BCDIN3D	85.47213294	97.78320037	0.874098338	-0.194132
NUBPL	216.5847252	247.7915191	0.874060283	-0.194195
ZFP64	485.448522	555.5863657	0.873758882	-0.194693
CERT1	605.7733694	693.3717844	0.873663139	-0.194851
MCRIP2	114.5160616	131.1183823	0.873379152	-0.19532
C3orf62	57.2580308	65.55919115	0.873379152	-0.19532
ANKRD27	807.421217	924.4957126	0.873363939	-0.195345
GDE1	814.0598292	932.2739217	0.873198113	-0.195619
SNTA1	184.9079259	142.7301637	0.771898571	-0.373517
AGAP2	92.45396297	71.36508187	0.771898571	-0.373517
AFF4	4138.415485	3194.002327	0.771793537	-0.373713
HOOK2	419.3447606	323.632348	0.771757223	-0.373781
APOBEC3C	93.55460539	72.1949084	0.771687381	-0.373912
PIK3AP1	236.6381195	182.5618373	0.771481103	-0.374297
RERE	8053.40056	6212.081429	0.771361288	-0.374521
G3BP2	2451.130661	1890.344843	0.771213413	-0.374798
DYNC2LI1	337.8972218	260.5655315	0.771138425	-0.374938
TG	96.85653263	74.684388	0.77108261	-0.375043
PAXIP1	923.4389873	711.9911656	0.77102134	-0.375157
SRGAP1	779.2548307	600.7944102	0.770985801	-0.375224
ZBTB39	391.8287002	302.0568581	0.77089008	-0.375403
ZFX	1474.860838	1136.862351	0.770826861	-0.375521
CNRIP1	49.52890873	38.17202053	0.770701829	-0.375755
SLC37A2	49.52890873	38.17202053	0.770701829	-0.375755
SLC35E2B	203.618847	156.8372148	0.770249007	-0.376603
TCTN3	357.7087853	275.5024091	0.770186309	-0.376721
PRPF38B	669.1905891	515.3222772	0.770068028	-0.376942
YY1AP1	2072.50967	1594.926597	0.769562922	-0.377889
PIK3C2A	2700.97649	2077.88564	0.769309043	-0.378365
LARP1	2350.972201	1808.192016	0.769125222	-0.37871
SFSWAP	1368.098523	1052.220044	0.769111308	-0.378736
PCDHGB3	56.13276323	43.15097974	0.768730724	-0.37945
SEC31B	169.4989321	130.2827657	0.768634729	-0.37963
CST3	2378.488262	1828.107853	0.768600746	-0.379694
EHBP1	746.2355583	573.4101346	0.768403661	-0.380064
CNTN1	1341.683105	1030.644554	0.768172865	-0.380497
COPB1	2052.698106	1576.670413	0.768096589	-0.38064
NPRL2	177.203429	136.0915515	0.767996151	-0.380829
CCNC	425.9486151	326.9516541	0.767584733	-0.381602
FAM76B	491.9871601	377.5710727	0.767440908	-0.381872
ALDH6A1	745.1349158	571.7504815	0.767311354	-0.382116
CCDC50	563.5289171	432.3396239	0.767200423	-0.382325
MARK3	2330.059995	1787.446353	0.767124605	-0.382467
DDX10	379.7216336	291.2691132	0.767059571	-0.382589
TASP1	583.3404806	447.2765015	0.766750322	-0.383171
TRPC4AP	1240.424003	950.9812072	0.766658179	-0.383345
SRPX2	195.9143501	150.1986025	0.76665442	-0.383352
GRHL1	329.0920825	252.2672661	0.766555258	-0.383538
RAB23	668.0899467	512.0029711	0.766368322	-0.38389
POLR2F	202.5182046	155.1775617	0.766240062	-0.384132
USP10	742.933631	569.2610019	0.766233992	-0.384143
NRF1	341.1991491	261.395358	0.766107884	-0.384381
TTC17	2608.522527	1998.222292	0.76603605	-0.384516
B4GALT2	280.6638162	214.9250721	0.765774068	-0.385009
RAB11FIP3	141.9828717	108.7072759	0.765636549	-0.385268
ASB13	71.54175706	54.7685512	0.765546633	-0.385438
AKR1A1	434.7537544	332.7604399	0.765399807	-0.385715
SMPD2	72.64239948	55.59837774	0.765370887	-0.385769
ATXN2	5015.627491	3836.288064	0.764867022	-0.386719
APH1B	152.9892959	117.0055412	0.764795606	-0.386854
EPC1	1649.862982	1261.336331	0.764509747	-0.387393
NEK3	239.9400468	183.3916639	0.764322865	-0.387746
TBC1D14	803.4689639	614.0716347	0.764275488	-0.387835
CUTC	160.6937928	122.8143269	0.764275488	-0.387835
AK5	80.34689639	61.40716347	0.764275488	-0.387835
COL1A1	14653.95313	11197.67924	0.764140512	-0.38809
MAP7	1043.409011	796.633472	0.76349108	-0.389317
PAK4	615.2591107	469.6818179	0.763388643	-0.38951
NPL	177.203429	135.2617249	0.763313248	-0.389653
ANAPC2	355.5075005	271.3532764	0.763284252	-0.389708
GTF2IRD1	356.6081429	272.1831029	0.763255434	-0.389762
NEK1	891.5203572	680.4577574	0.763255434	-0.389762
GREB1L	362.111355	276.3322356	0.763113975	-0.39003
ENGASE	181.6059987	138.5810311	0.763086198	-0.390082
INPP5J	192.6124229	146.8792964	0.762563983	-0.39107
KIF21A	1483.665977	1131.053565	0.762337064	-0.391499
ADAM8	99.05781747	75.51421454	0.762324635	-0.391523
ZNRF2	99.05781747	75.51421454	0.762324635	-0.391523
RBM15B	1007.087811	767.5895434	0.762187304	-0.391783
STAB1	1029.100659	784.186074	0.76201105	-0.392116
MTFR1L	212.4239863	161.816174	0.761760368	-0.392591
HMBOX1	745.1349158	567.6013488	0.761743057	-0.392624
LIPT1	106.7623144	81.32300027	0.761720095	-0.392667
MAP3K4	1818.261272	1384.980484	0.76170598	-0.392694
GIGYF1	449.0621058	341.8885317	0.761339083	-0.393389
HTRA3	115.5674537	87.96161254	0.761127893	-0.393789
COG2	897.0235693	682.1174104	0.760423063	-0.395126
ZNF205	129.8758051	98.74935747	0.760336826	-0.395289
PPOX	129.8758051	98.74935747	0.760336826	-0.395289
IFT27	132.07709	100.4090105	0.760230336	-0.395491
NOTCH3	1719.203454	1306.146964	0.759739611	-0.396423
TMEM205	302.6766645	229.8619497	0.759430695	-0.39701
CSPP1	1523.289104	1156.778188	0.759395038	-0.397078
AMD1	777.0535459	590.0066652	0.759287012	-0.397283
CDADC1	172.8008594	131.1125923	0.758749654	-0.398304
RBM45	173.9015018	131.9424188	0.75871926	-0.398362
APBA3	181.6059987	137.7512045	0.75851682	-0.398747
ARVCF	187.1092108	141.9003372	0.758382426	-0.399003
ZBTB44	952.0556901	721.949084	0.758305519	-0.399149
XDH	215.7259136	163.4758271	0.757794112	-0.400122
PABPC4	2688.869423	2037.224139	0.757650826	-0.400395
NIPSNAP1	226.7323378	171.7740924	0.75760738	-0.400478
KRIT1	235.5374771	178.4127047	0.75747056	-0.400738
TRIM44	758.3426248	574.2399611	0.757230231	-0.401196
FBXO38	767.1477642	580.8785734	0.757192552	-0.401268
TIA1	1335.079251	1010.728718	0.757055221	-0.40153
TXN2	276.2612465	209.1162864	0.756951216	-0.401728
SIL1	286.1670282	216.5847252	0.756847239	-0.401926
IRF2	385.2248457	291.2691132	0.756101577	-0.403348

LRIG3	922.3383449	301.1278102	0.326483022	-1.61492
ARL6IP1	919.0364176	300.0166375	0.326446952	-1.61508
TNFAIP3	800.1670366	261.1255919	0.326338852	-1.615557
ATAD1	177.203429	57.78098203	0.326071467	-1.61674
GK5	1626.749491	530.0293929	0.325821152	-1.617848
ADM2	34.11991491	11.11172731	0.325666912	-1.618531
HOXB-AS1	34.11991491	11.11172731	0.325666912	-1.618531
ENSG000002	34.11991491	11.11172731	0.325666912	-1.618531
TYRO3P	34.11991491	11.11172731	0.325666912	-1.618531
ENSG000002	34.11991491	11.11172731	0.325666912	-1.618531
BNIP2	1187.593167	386.6881105	0.325606547	-1.618798
IL18	235.5374771	76.67091847	0.325514731	-1.619205
TPP2	1772.03429	576.6986476	0.325444406	-1.619517
RAB21	735.2291341	238.9021373	0.324935624	-1.621774
CD8A	95.75589022	31.11283648	0.324918252	-1.621851
RNF157	283.9657434	92.22733671	0.324783319	-1.622451
ZNF137P	30.81798766	10.00055458	0.324503816	-1.623693
YBX1P10	30.81798766	10.00055458	0.324503816	-1.623693
HMGN3	504.0942267	163.3423915	0.324031467	-1.625794
MTRES1	199.2162773	64.44801842	0.323507794	-1.628128
DOCK11	997.1820292	322.2400921	0.323150721	-1.629721
PDE9A	1547.503237	500.0277291	0.32311902	-1.629862
WDHD1	137.580302	44.44690926	0.323061576	-1.630119
NEURL1B	110.0642416	35.55752741	0.323061576	-1.630119
YBX1P1	55.03212081	17.7787637	0.323061576	-1.630119
ENSG000002	55.03212081	17.7787637	0.323061576	-1.630119
HNRNPA1P1	27.51606041	8.889381852	0.323061576	-1.630119
ZFY	427.0492575	137.7854187	0.32264526	-1.631979
CBR4	1005.987168	324.4624376	0.322531388	-1.632489
ANO6	2401.601752	774.4873938	0.322487853	-1.632683
PRIM1	103.4603871	33.33518194	0.32220237	-1.633961
TCERG1	1807.254848	582.2545113	0.322176207	-1.634078
XAF1	334.5952946	107.7837549	0.322131712	-1.634277
PHF11	334.5952946	107.7837549	0.322131712	-1.634277
EEA1	3132.428317	1007.833667	0.321741973	-1.636024
APOL6	300.4753796	96.67202764	0.321730279	-1.636076
THAP1	318.0856583	102.2278913	0.321384786	-1.637626
CCNA2	96.85653263	31.11283648	0.321225999	-1.638339
FOXJ1	48.42826632	15.55641824	0.321225999	-1.638339
HCN4	24.21413316	7.77820912	0.321225999	-1.638339
DDX50P1	24.21413316	7.77820912	0.321225999	-1.638339
NSUN5P1	24.21413316	7.77820912	0.321225999	-1.638339
CYB5R2	190.411138	61.11450023	0.320960742	-1.639531
RARRES1	471.0749542	151.1194915	0.320797126	-1.640267
LIMS2	256.449683	82.22678213	0.320635148	-1.640996
ZNF713	232.2355498	74.44857301	0.320573543	-1.641273
PMM2	741.8329886	237.7909645	0.320545147	-1.641401
SYT11	159.5931504	51.11394565	0.320276563	-1.64261
ELN	528.3083598	168.8982552	0.319696352	-1.645226
CD53	236.6381195	75.55974574	0.319305046	-1.646993
MAGI3	2319.053571	740.0410391	0.319113387	-1.647859
GPR171	41.82441182	13.33407278	0.318810766	-1.649228
MMP1	20.91220591	6.667036389	0.318810766	-1.649228
LINC01341	20.91220591	6.667036389	0.318810766	-1.649228
CBX1P1	20.91220591	6.667036389	0.318810766	-1.649228
FAM151B-D1	20.91220591	6.667036389	0.318810766	-1.649228
SMOX	289.4689555	92.22733671	0.318608731	-1.650142
FAM185A	241.0406892	76.67091847	0.318082888	-1.652525
APOBEC3G	178.3040714	56.6698093	0.317826782	-1.653687
ZNF252P	59.43469048	18.88993643	0.317826782	-1.653687
SMC4	552.522493	175.5652916	0.317752298	-1.654026
UPF3B	433.653112	137.7854187	0.31773188	-1.654118
CBLL1	1573.918655	500.0277291	0.317696043	-1.654281
ENSG000002	38.52248457	12.22290005	0.31729262	-1.656114
CYGB	73.74304189	23.33462736	0.316431581	-1.660035
GPRASP1	1138.064258	360.019965	0.316344145	-1.660433
RPL27A	3600.201344	1137.840877	0.316049234	-1.661779
HACD2	1659.768764	524.4735292	0.315991927	-1.66204
CUX2	608.6552562	192.2328825	0.315832124	-1.66277
PTPRJ	1119.353337	353.3529286	0.31567595	-1.663484
SMPDL3A	369.8158519	116.6731368	0.315489821	-1.664335
SUMO2	193.7130653	61.11450023	0.315489821	-1.664335
GRAMD2A	70.44111464	22.22345463	0.315489821	-1.664335
VNN1	17.61027866	5.555863657	0.315489821	-1.664335
GCHFR	17.61027866	5.555863657	0.315489821	-1.664335
ANKRD30B	17.61027866	5.555863657	0.315489821	-1.664335
RNU1-1	17.61027866	5.555863657	0.315489821	-1.664335
RPL17P50	17.61027866	5.555863657	0.315489821	-1.664335
RPL21P10	17.61027866	5.555863657	0.315489821	-1.664335
ENSG000002	17.61027866	5.555863657	0.315489821	-1.664335
FAM86C2P.1	17.61027866	5.555863657	0.315489821	-1.664335
DLC1	260.8522527	82.22678213	0.315223585	-1.665553
S100A11	3103.811614	976.7208309	0.314684315	-1.668023
TRIL	99.05781747	31.11283648	0.314087644	-1.670761
REV3L	5591.263475	1755.652916	0.313999318	-1.671167
GOLGA7	488.6852328	153.3418369	0.31378447	-1.672154
RPL13AP5	81.44753881	25.55697282	0.31378447	-1.672154
SP100	1400.017154	438.9132289	0.313505608	-1.673437
SRFBP1	209.1220591	65.55919115	0.313497253	-1.673475
ITGAL	304.8779493	95.5608549	0.313439706	-1.67374
SPTSSB	63.83726015	20.00110917	0.313314029	-1.674319
TMEM200B	31.91863007	10.00055458	0.313314029	-1.674319
ENSG000002	31.91863007	10.00055458	0.313314029	-1.674319
PHF6	909.1306359	284.4602192	0.312892568	-1.676261
OLFM1	78.14561156	24.44580009	0.31282371	-1.676578
RRAGD	234.4368347	73.33740027	0.31282371	-1.676578
KRCC1	739.6317038	231.1239281	0.312485156	-1.67814
COX19	92.45396297	28.89049102	0.312485156	-1.67814
SORCS1	46.22698148	14.44524551	0.312485156	-1.67814
SREK1IP1	167.2976473	52.22511838	0.312168875	-1.679601
ADAM22	2032.886543	634.4796297	0.312107742	-1.679884
BEX3	930.2355439	1065.614649	0.87295679	-0.196018
GATD3	213.2654191	244.4580009	0.87240106	-0.196937
EPM2AIP1	640.6260838	734.4851755	0.872211047	-0.197251
CREBRF	602.4540632	691.149439	0.871669757	-0.198146
EIF3L	747.6737066	857.8253487	0.871591994	-0.198275
MMP14	458.0642464	525.584702	0.871532685	-0.198373
PCNX4	1770.849822	2032.334926	0.871337593	-0.198696
CA6	17.4263572	20.00110917	0.871269541	-0.198809
UMODL1	17.4263572	20.00110917	0.871269541	-0.198809
ENSG000002	17.4263572	20.00110917	0.871269541	-0.198809
CD101-AS1	17.4263572	20.00110917	0.871269541	-0.198809
SLC31A2	40.66150013	46.66925472	0.871269541	-0.198809
C11orf65	23.23514293	26.66814555	0.871269541	-0.198809
WDR49	23.23514293	26.66814555	0.871269541	-0.198809
CETP	11.61757147	13.33407278	0.871269541	-0.198809
ABCA11P	11.61757147	13.33407278	0.871269541	-0.198809
SCG3	5.808785734	6.667036389	0.871269541	-0.198809
MINDY4	5.808785734	6.667036389	0.871269541	-0.198809
SMYD1	5.808785734	6.667036389	0.871269541	-0.198809
TNNT2	5.808785734	6.667036389	0.871269541	-0.198809
PRKCG	5.808785734	6.667036389	0.871269541	-0.198809
SNTG1	5.808785734	6.667036389	0.871269541	-0.198809
OCSTAMP	5.808785734	6.667036389	0.871269541	-0.198809
HOXC5	5.808785734	6.667036389	0.871269541	-0.198809
PRSS42P	5.808785734	6.667036389	0.871269541	-0.198809
TAX1BP3	5.808785734	6.667036389	0.871269541	-0.198809
ZPR1P1	5.808785734	6.667036389	0.871269541	-0.198809
RPS6P25	5.808785734	6.667036389	0.871269541	-0.198809
ENSG000002	5.808785734	6.667036389	0.871269541	-0.198809
ZNF518A	1554.265097	1784.543407	0.870959536	-0.199322
B3GALNT1	285.4603275	327.7959558	0.870847619	-0.199508
CREBZF	1002.430452	1151.17495	0.870788973	-0.199605
CABIN1	1347.63829	1547.863615	0.870644078	-0.199845
FGR	70.53525534	81.11560939	0.869564512	-0.201635
ICA1	453.0852872	521.140011	0.869411823	-0.201888
TM9SF2	2575.78156	2963.497675	0.869169421	-0.202291
RECK	271.3532764	312.2395375	0.869054824	-0.202481
SUCLG2	265.5444907	305.5725011	0.869006503	-0.202561
SMAD4	1205.737953	1387.854742	0.868778206	-0.20294
MVD	189.2004496	217.7898554	0.868729396	-0.203021
TPT1	4595.579342	5294.738065	0.86795216	-0.204313
SNRPN	136.921378	157.7865279	0.867763426	-0.204626
TSPAN14	723.6087371	834.4907213	0.867126163	-0.205686
LTA4H	1154.288708	1331.184932	0.867113712	-0.205707
ZNF621	305.3761643	352.2417559	0.866950494	-0.205978
FNIP1	1000.770799	1154.508468	0.866837123	-0.206167
TRAPPC1	317.8235623	366.6870014	0.866743465	-0.206323
RBM42	419.8922259	484.4713109	0.866701942	-0.206392
ENSG000002	426.5308382	492.24952	0.866493152	-0.20674
ATP6V1A	943.5127684	1088.949277	0.866443266	-0.206823
PTOV1-AS1	24.06496947	27.77931829	0.866290858	-0.207077
CLASRP	367.6131543	424.4679834	0.86605626	-0.207467
AXIN1	596.6452775	688.9270935	0.866049954	-0.207478
RABEPK	271.3532764	313.3507103	0.86597307	-0.207606
JUN	1987.434547	2295.682863	0.865726961	-0.208016
TET2	1923.537904	2222.345463	0.865544055	-0.208321
RHOQ	655.5629614	757.8198028	0.865064437	-0.20912
FHIP2A	583.368053	674.481848	0.864912903	-0.209373
CATSPERG	286.290154	331.129474	0.864586745	-0.209917
AGL	1673.760118	1936.774071	0.864199982	-0.210563
IDE	1026.495422	1187.84365	0.864167116	-0.210618
BRD3	1896.153629	2194.566145	0.864022091	-0.21086
DLX5	97.91953094	113.3396186	0.863947948	-0.210984
COQ2	171.7740924	198.8999189	0.863620726	-0.21153
KAT14	258.0760519	298.9054648	0.863403592	-0.211893
CEP290	1643.886363	1904.550062	0.863136336	-0.21234
APH1B	117.0055412	135.5630732	0.863107765	-0.212387
C15orf40	117.0055412	135.5630732	0.863107765	-0.212387
INPP5A	394.1676033	456.6919926	0.863092872	-0.212412
SF1	3771.561594	4370.242353	0.863009712	-0.212551
UBE2D4	98.74935747	114.4507913	0.862810613	-0.212884
LAMA4	1278.762688	1482.304424	0.862685605	-0.213093
NENF	444.7870219	515.5841474	0.862685605	-0.213093
MCTP2	123.6441535	143.3412824	0.862585791	-0.21326
RABL2B	92.94057174	107.7837549	0.862287381	-0.213759
SYT17	713.6508187	827.8236849	0.862080696	-0.214105
POLR3H	180.0723577	208.9004735	0.862000716	-0.214239
CLASP1	1590.777464	1845.657907	0.861902663	-0.214403
INVS	727.7578698	844.4912759	0.861770738	-0.214624
PPFIBP1	902.0214418	1046.724713	0.861756134	-0.214648
LINC01145	12.447398	14.44524551	0.86169515	-0.214751
C1orf112	946.002248	1097.838659	0.86169515	-0.214751
TCEAL9	168.4547863	195.5664007	0.861368751	-0.215297
NRBP1	1067.986748	1240.068768	0.861231873	-0.215526
EIPR1	462.2133791	536.6964293	0.861219404	-0.215547
GLI4	137.7512045	160.0088733	0.860897284	-0.216087
WASHC4	1119.435994	1301.183269	0.86032154	-0.217052
RPN1	3080.316092	3581.309713	0.860108826	-0.217409
MOCS1	189.2004496	220.0122008	0.859954352	-0.217668
RNF7	94.6002248	110.0061004	0.859954352	-0.217668
NBPF20	329.4411337	383.3545923	0.859363994	-0.218659
RAD51B	266.3743172	310.0171921	0.85922434	-0.218893
ALKBH5	837.2949722	974.4984855	0.859206027	-0.218924
FARP2	996.6216666	1160.064332	0.859108964	-0.219087
MTHFSD	126.9634596	147.7859733	0.859103586	-0.219096
GALNT2	2090.333038	2433.468282	0.858993336	-0.219281
B4GALNT1	241.4795212	281.1267011	0.858970423	-0.21932
PAIP1P2	19.08601027	22.22345463	0.858822833	-0.219568
IRF1	140.2406841	163.3423915	0.858568819	-0.219994
RGP1	835.6353191	973.3873127	0.858481827	-0.22014
TSTD1	370.1026339	431.1350198	0.858437883	-0.220214
SNX9	1227.216294	927.7460643	0.755975999	-0.403588
ANKMY1	446.860821	337.7393991	0.755804455	-0.403915
AGRN	1237.122076	934.3846766	0.755288985	-0.404899
PTPRM	2468.74094	1863.790394	0.754955842	-0.405536
AMBRA1	893.721642	674.6489716	0.754875948	-0.405689
ZBTB1	1310.865118	989.1532278	0.754580478	-0.406253
RASGRP4	25.31477557	19.08601027	0.753947441	-0.407464
BAK1P1	25.31477557	19.08601027	0.753947441	-0.407464
AKT2	1452.84799	1095.371024	0.753947441	-0.407464
SLC35C1	137.580302	103.7283167	0.753947441	-0.407464
ATP1B2	45.12633907	34.02288787	0.753947441	-0.407464
NRROS	45.12633907	34.02288787	0.753947441	-0.407464
RPL41P1	45.12633907	34.02288787	0.753947441	-0.407464
UPB1	16.50963624	12.447398	0.753947441	-0.407464
CFAP141	16.50963624	12.447398	0.753947441	-0.407464
CCZ1	309.280519	233.1812559	0.753947441	-0.407464
TPD52L2	302.6766645	228.2022967	0.753947441	-0.407464
SLC22A17	243.241974	183.3916639	0.753947441	-0.407464
METTL15	234.4368347	176.7530516	0.753947441	-0.407464
MGLL	140.8822293	106.2177963	0.753947441	-0.407464
MISP	130.9764475	98.74935747	0.753947441	-0.407464
CDC26	111.164884	83.81247987	0.753947441	-0.407464
CCDC183-AS	40.7237694	30.70358173	0.753947441	-0.407464
PSMA1	28.61670282	21.57548987	0.753947441	-0.407464
CRB1	28.61670282	21.57548987	0.753947441	-0.407464
TSPAN10	28.61670282	21.57548987	0.753947441	-0.407464
PRSS36	24.21413316	18.25618373	0.753947441	-0.407464
TNFRSF9	14.30835141	10.78774493	0.753947441	-0.407464
SLFN14	14.30835141	10.78774493	0.753947441	-0.407464
NUDT16L2P	14.30835141	10.78774493	0.753947441	-0.407464
SYT9-AS1	14.30835141	10.78774493	0.753947441	-0.407464
ENSG000002	14.30835141	10.78774493	0.753947441	-0.407464
CALCR	12.10706658	9.128091867	0.753947441	-0.407464
SYNPO2L	12.10706658	9.128091867	0.753947441	-0.407464
GPD1	12.10706658	9.128091867	0.753947441	-0.407464
ANKK1	12.10706658	9.128091867	0.753947441	-0.407464
FOSL1	12.10706658	9.128091867	0.753947441	-0.407464
ENSG000002	12.10706658	9.128091867	0.753947441	-0.407464
PSMG3-AS1	12.10706658	9.128091867	0.753947441	-0.407464
EIF4HP1	12.10706658	9.128091867	0.753947441	-0.407464
ENSG000002	12.10706658	9.128091867	0.753947441	-0.407464
DUXAP10	12.10706658	9.128091867	0.753947441	-0.407464
ENSG000002	12.10706658	9.128091867	0.753947441	-0.407464
ENSG000002	12.10706658	9.128091867	0.753947441	-0.407464
GNAI2	1175.486101	886.2547376	0.753947441	-0.407464
P2RY4	46.22698148	34.8527144	0.753947441	-0.407464
RNF216P1	46.22698148	34.8527144	0.753947441	-0.407464
PDE1C	29.71734524	22.4053164	0.753947441	-0.407464
RPGRIP1	23.11349074	17.4263572	0.753947441	-0.407464
COMMD3	23.11349074	17.4263572	0.753947441	-0.407464
PEX11G	20.91220591	15.76670413	0.753947441	-0.407464
SMCR8	20.91220591	15.76670413	0.753947441	-0.407464
CTBP2P8	20.91220591	15.76670413	0.753947441	-0.407464
CNTN6	18.71092108	14.10705107	0.753947441	-0.407464
ARIH2OS	18.71092108	14.10705107	0.753947441	-0.407464
NKAIN1	15.40899383	11.61757147	0.753947441	-0.407464
ADAMTS16	15.40899383	11.61757147	0.753947441	-0.407464
GRID2	15.40899383	11.61757147	0.753947441	-0.407464
ZNF560	15.40899383	11.61757147	0.753947441	-0.407464
ENSG000002	15.40899383	11.61757147	0.753947441	-0.407464
KYNU	94.6552478	71.36508187	0.753947441	-0.407464
NBPF11	559.1263475	421.551879	0.753947441	-0.407464
CYYR1	42.92505424	32.3632348	0.753947441	-0.407464
ZNF767P	42.92505424	32.3632348	0.753947441	-0.407464
MST1P2	31.91863007	24.06496947	0.753947441	-0.407464
GRID2IP	31.91863007	24.06496947	0.753947441	-0.407464
GABARAPL1	221.2291257	166.7951332	0.753947441	-0.407464
ZNF555	221.2291257	166.7951332	0.753947441	-0.407464
UBE2V1P2	105.661672	79.6633472	0.753947441	-0.407464
FLVCR2	70.44111464	53.10889814	0.753947441	-0.407464
RRAGC-DT	35.22055732	26.55444907	0.753947441	-0.407464
CRYBB2P1	35.22055732	26.55444907	0.753947441	-0.407464
SFTPD	22.01284833	16.59653067	0.753947441	-0.407464
OVCH1	19.81156349	14.9368776	0.753947441	-0.407464
HLX	17.61027866	13.27722453	0.753947441	-0.407464
TPRG1	17.61027866	13.27722453	0.753947441	-0.407464
ENSG000002	17.61027866	13.27722453	0.753947441	-0.407464
FNDC7	11.00642416	8.298265334	0.753947441	-0.407464
S100B	11.00642416	8.298265334	0.753947441	-0.407464
FCRL6	11.00642416	8.298265334	0.753947441	-0.407464
ENSG000002	11.00642416	8.298265334	0.753947441	-0.407464
FAM204BP	11.00642416	8.298265334	0.753947441	-0.407464
NTAN1P2	11.00642416	8.298265334	0.753947441	-0.407464
LINC02516	11.00642416	8.298265334	0.753947441	-0.407464
NOTCH2NL	11.00642416	8.298265334	0.753947441	-0.407464
ENSG000002	11.00642416	8.298265334	0.753947441	-0.407464
ENSG000002	11.00642416	8.298265334	0.753947441	-0.407464
ENSG000002	11.00642416	8.298265334	0.753947441	-0.407464
ENSG000002	11.00642416	8.298265334	0.753947441	-0.407464
AKNAD1	9.905781747	7.4684388	0.753947441	-0.407464
RPP38-DT	9.905781747	7.4684388	0.753947441	-0.407464
WT1	9.905781747	7.4684388	0.753947441	-0.407464
STPG3	9.905781747	7.4684388	0.753947441	-0.407464
MT-TF	9.905781747	7.4684388	0.753947441	-0.407464
STIMATE	9.905781747	7.4684388	0.753947441	-0.407464
PIGUP1	9.905781747	7.4684388	0.753947441	-0.407464
MTND5P2	9.905781747	7.4684388	0.753947441	-0.407464
TSPY26P	9.905781747	7.4684388	0.753947441	-0.407464
HAO2	8.80513933	6.638612267	0.753947441	-0.407464
MYO7B	8.80513933	6.638612267	0.753947441	-0.407464
YWHAZP10	8.80513933	6.638612267	0.753947441	-0.407464

MLYCD	60.5353329	18.88993643	0.312048114	-1.68016
RPF2	313.6830886	97.78320037	0.311726082	-1.681649
VASH2	89.15203572	27.77931829	0.311594885	-1.682257
CD248	592.14562	184.4546734	0.311502217	-1.682686
MAPRE2	310.3811614	96.67202764	0.311462291	-1.682871
KRT6A	117.7687385	36.66870014	0.311361917	-1.683336
MDC1	556.9250626	173.3429461	0.311250037	-1.683854
ZNF675	278.4625313	86.67147305	0.311250037	-1.683854
JHY	146.3854414	45.55808199	0.311220034	-1.683993
PDLIM4	160.6937928	50.00277291	0.311168042	-1.684234
PMEPA1	1824.865126	567.8092658	0.31115136	-1.684312
CCDC110	114.4668113	35.55752741	0.310636131	-1.686702
ITCH	57.23340565	17.7787637	0.310636131	-1.686702
GMPR2	14.30835141	4.444690926	0.310636131	-1.686702
CCDC38	14.30835141	4.444690926	0.310636131	-1.686702
NKRF	14.30835141	4.444690926	0.310636131	-1.686702
FLJ46284	14.30835141	4.444690926	0.310636131	-1.686702
SYT9-AS1	14.30835141	4.444690926	0.310636131	-1.686702
ENSG000002	14.30835141	4.444690926	0.310636131	-1.686702
FBXL19-AS1	14.30835141	4.444690926	0.310636131	-1.686702
DSC3	314.7837311	97.78320037	0.310636131	-1.686702
RGS4	85.85010847	26.66814555	0.310636131	-1.686702
ITPRIP	71.54175706	22.22345463	0.310636131	-1.686702
FRMD4B	1166.680961	362.2423104	0.310489605	-1.687383
PDCD5	182.7066411	56.6698093	0.310168306	-1.688877
YAE1	182.7066411	56.6698093	0.310168306	-1.688877
RBMS2	1010.389738	313.3507103	0.310128556	-1.689062
ITPK1	125.4732355	38.8910456	0.309954912	-1.68987
STK17A	236.6381195	73.33740027	0.309913722	-1.690061
SYCE1L	53.9314784	16.66759097	0.309051253	-1.694082
ENSG000002	53.9314784	16.66759097	0.309051253	-1.694082
TNS1	11371.83745	3512.417004	0.308869787	-1.694929
EZH2	241.0406892	74.44857301	0.308863094	-1.694961
SNORA73B	212.4239863	65.55919115	0.308624239	-1.696077
ENSG000002	79.24625397	24.44580009	0.308478936	-1.696756
ZNF658	237.7387619	73.33740027	0.308478936	-1.696756
ETS1	548.1199233	168.8982552	0.308141062	-1.698337
LDB2	299.3747372	92.22733671	0.308066531	-1.698686
CXCL12	584.4411231	180.0099825	0.308003622	-1.698981
DBF4	129.8758051	40.00221833	0.308003622	-1.698981
CDK20	1739.015018	535.5852566	0.307981962	-1.699082
NECAP1	350.0042884	107.7837549	0.307949812	-1.699233
NSA2	530.5096447	163.3423915	0.30789712	-1.69948
STX16	115.5674537	35.55752741	0.307677692	-1.700508
PKIG	292.7708827	90.00499125	0.307424667	-1.701695
PRKCQ	75.94432672	23.33462736	0.307259651	-1.70247
RRP7BP	50.62955115	15.55641824	0.307259651	-1.70247
C12orf56	25.31477557	7.77820912	0.307259651	-1.70247
SBF2-AS1	25.31477557	7.77820912	0.307259651	-1.70247
AUTS2	4575.370525	1404.522333	0.306974555	-1.703809
PDIA5	572.3340565	175.5652916	0.30675318	-1.70485
RBMS3	384.1242033	117.7843095	0.306630794	-1.705426
H1-3	257.5503254	78.89326393	0.30632174	-1.70688
ENSG000002	170.5995745	52.22511838	0.306126897	-1.707798
BAIAP2-DT	36.32119974	11.11172731	0.305929523	-1.708729
IL2RB	83.64882364	25.55697282	0.305526984	-1.710628
GNL3	1189.794452	363.3534832	0.305391812	-1.711267
ATF7IP2	47.3276239	14.44524551	0.305218059	-1.712088
RNLS	47.3276239	14.44524551	0.305218059	-1.712088
TAFA5	47.3276239	14.44524551	0.305218059	-1.712088
CTTNBP2	460.06853	140.0077642	0.304319368	-1.716342
H3C2	80.34689639	24.44580009	0.304253197	-1.716656
C15orf39	709.9143585	215.5675099	0.303652838	-1.719505
LIPH	190.411138	57.78098203	0.303453793	-1.720451
PIK3R1	2248.612456	682.2600571	0.303413803	-1.720641
ZEB1	1729.109236	524.4735292	0.303320067	-1.721087
TRIM52	791.3618973	240.01331	0.303291466	-1.721223
VAV3	366.5139246	111.1172731	0.303173401	-1.721785
RNF111	1898.608168	575.5874749	0.303162856	-1.721835
F2RL3	33.01927249	10.00055458	0.302870228	-1.723228
SKA3	33.01927249	10.00055458	0.302870228	-1.723228
CKMT1B	33.01927249	10.00055458	0.302870228	-1.723228
AMTN	22.01284833	6.667036389	0.302870228	-1.723228
VTN	11.00642416	3.333518194	0.302870228	-1.723228
SHLD2P1	11.00642416	3.333518194	0.302870228	-1.723228
SERPINF2	11.00642416	3.333518194	0.302870228	-1.723228
NINJ2-AS1	11.00642416	3.333518194	0.302870228	-1.723228
OR10K2	11.00642416	3.333518194	0.302870228	-1.723228
GOT1-DT	11.00642416	3.333518194	0.302870228	-1.723228
ENSG000002	11.00642416	3.333518194	0.302870228	-1.723228
GTF2A1L	11.00642416	3.333518194	0.302870228	-1.723228
ENSG000002	11.00642416	3.333518194	0.302870228	-1.723228
LINC02516	11.00642416	3.333518194	0.302870228	-1.723228
ENSG000002	11.00642416	3.333518194	0.302870228	-1.723228
ENSG000002	11.00642416	3.333518194	0.302870228	-1.723228
ENSG000002	11.00642416	3.333518194	0.302870228	-1.723228
LAMB3	242.1413316	73.33740027	0.302870228	-1.723228
PID1	220.1284833	66.67036389	0.302870228	-1.723228
CABCOCO1	209.1220591	63.33684569	0.302870228	-1.723228
HEY2	110.0642416	33.33518194	0.302870228	-1.723228
CATSPER2	198.1156349	60.0033275	0.302870228	-1.723228
VEPH1	198.1156349	60.0033275	0.302870228	-1.723228
CBX3	194.8137077	58.89215477	0.302299851	-1.725948
ST8SIA4	139.7815869	42.22456379	0.302075293	-1.72702
IFIT1	128.7751627	38.8910456	0.30200735	-1.727344
STK17B	632.8693894	191.1217098	0.301992343	-1.727416
UQCC5	106.7623144	32.22400921	0.301829437	-1.728195
SERPING1	8320.856667	2509.028028	0.301534821	-1.729603
GNMT	73.74304189	22.22345463	0.301363411	-1.730424
GRPR	272.9593192	82.22678213	0.301241893	-1.731006
HOXA13	922.3383449	277.7931829	0.3011836	-1.731285
P2RX4	326.1218276	380.0210742	0.858167743	-0.220668
TLL2	217.4145517	253.3473828	0.858167743	-0.220668
COQ4	224.053164	261.1255919	0.858028362	-0.220903
UBOX5	204.9671537	238.9021373	0.857954458	-0.221027
CRYZ	435.65893	507.8059383	0.857924056	-0.221078
SEMA4C	911.1495336	1062.281131	0.857729189	-0.221406
TNFRSF25	96.25987787	112.2284459	0.857713721	-0.221432
LUC7L	609.922502	711.1505481	0.857655954	-0.221529
PCYT1A	243.9690008	284.4602192	0.857655954	-0.221529
TUFM	1117.77634	1303.405614	0.857581346	-0.221655
ZNF233	154.3477352	180.0099825	0.857439866	-0.221893
CRTC1	926.9162378	1081.171068	0.857326158	-0.222084
CASKIN2	302.8866847	353.3529286	0.857178928	-0.222332
GCLC	947.6619011	1105.616868	0.857134084	-0.222407
CERS6	2097.801476	2447.913527	0.856975319	-0.222674
FMNL3	407.4448279	475.5819291	0.856728995	-0.223089
KIF17	32.3632348	37.77987287	0.856626355	-0.223262
PAQR3	246.4584804	287.7937374	0.856371937	-0.223691
FAP	71.36508187	83.33795486	0.856333492	-0.223755
ARMCX3	617.3909408	721.1511027	0.856118695	-0.224117
EIF4BP6	39.00184707	45.55808199	0.856090629	-0.224165
ASH1L	8256.774007	9651.646345	0.8554783	-0.225197
MS4A6A	274.6725825	321.1289194	0.85533431	-0.22544
RARB	58.91768387	68.89270935	0.855209273	-0.225651
ARHGEF15	58.91768387	68.89270935	0.855209273	-0.225651
TMEM260	412.4237871	482.2489654	0.855209273	-0.225651
SMG1	6233.656919	7290.404291	0.855049551	-0.22592
MS4A4A	131.1125923	153.3418369	0.855034705	-0.225945
DRC3	65.55629614	76.67091847	0.855034705	-0.225945
MPV17L2	72.1949084	84.44912759	0.854892294	-0.226185
B4GALT4	532.7486344	623.3679023	0.854629557	-0.226629
SVEP1	409.1044809	478.9154472	0.854231124	-0.227302
PPP2R2C	370.1026339	433.3573653	0.854035638	-0.227632
SNRNP70	1163.4168	1362.297769	0.854010648	-0.227674
NCOA5	1018.197156	1192.288341	0.853985669	-0.227716
DGCR8	311.18495	364.4646559	0.853813792	-0.228007
IST1	655.5629614	767.8203574	0.853797317	-0.228034
CEP83	331.1007868	387.7992833	0.853794221	-0.22804
ABCA3	1095.371024	1283.404505	0.85348853	-0.228556
HEXIM2	26.55444907	31.11283648	0.85348853	-0.228556
SPDYE18	13.27722453	15.55641824	0.85348853	-0.228556
P2RX3	6.638612267	7.77820912	0.85348853	-0.228556
EPS8L1	6.638612267	7.77820912	0.85348853	-0.228556
ADGRF4	6.638612267	7.77820912	0.85348853	-0.228556
IGSF5	6.638612267	7.77820912	0.85348853	-0.228556
DMBX1	6.638612267	7.77820912	0.85348853	-0.228556
IL9RP3	6.638612267	7.77820912	0.85348853	-0.228556
ENSG000002	6.638612267	7.77820912	0.85348853	-0.228556
ENSG000002	6.638612267	7.77820912	0.85348853	-0.228556
POM121L9P	6.638612267	7.77820912	0.85348853	-0.228556
CTNNBIP1	79.6633472	93.33850944	0.85348853	-0.228556
GPR183	46.47028587	54.44746384	0.85348853	-0.228556
B4GALT6	92.94057174	108.8949277	0.85348853	-0.228556
NDUFB7	458.894073	537.807602	0.853268104	-0.228929
TTBK2	926.9162378	1086.726931	0.8529431	-0.229479
POLR2J	160.1565209	187.7881916	0.852857251	-0.229624
INPP4A	1048.070912	1228.957041	0.852813302	-0.229698
ATXN1L	420.7220524	493.3606928	0.852767678	-0.229775
ZNF142	1544.307179	1811.211552	0.852637659	-0.229995
USF3	3145.872388	3690.204641	0.852492665	-0.230241
DAAM2	194.1794088	227.7904099	0.85244769	-0.230317
LAMB1	2059.629456	2416.800691	0.852213202	-0.230714
CYRIA	154.3477352	181.1211552	0.852179498	-0.230771
ZDHHC6	557.6434304	654.4807388	0.852039483	-0.231008
PHF2	1086.242932	1275.626296	0.851536955	-0.231859
LUZP1	979.1953094	1150.063777	0.851426963	-0.232045
LRRK2	331.1007868	388.910456	0.851354809	-0.232168
ZDHHC11B	141.9003372	166.6759097	0.851354809	-0.232168
FAM174B	175.9232251	206.678128	0.851194206	-0.23244
PARD6G	128.6231127	151.1194915	0.851135161	-0.23254
NUMB	853.0616763	1002.277804	0.851122985	-0.23256
NIT2	326.1218276	383.3545923	0.850705415	-0.233268
CD9	1325.232974	1557.864169	0.850672992	-0.233323
NUDT4	273.0129295	321.1289194	0.850166126	-0.234183
EDEM1	634.817298	746.7080755	0.85015459	-0.234203
ANKRD34A	27.3842756	32.22400921	0.8498097	-0.234788
ALKBH8	130.2827657	153.3418369	0.849623093	-0.235105
MED11	130.2827657	153.3418369	0.849623093	-0.235105
PXYLP1	205.7969803	242.2356555	0.849573445	-0.235189
HIBCH	555.9837774	654.4807388	0.849503651	-0.235308
PRKAB2	151.0284291	177.787637	0.849487802	-0.235335
ITSN2	1606.544169	1891.215989	0.849476833	-0.235353
RAB4A	515.3222772	606.7003114	0.84938522	-0.235509
TAF6	563.4522162	663.3701207	0.849378346	-0.235521
NBPF8	219.9040313	258.9032464	0.849367609	-0.235539
MON1A	48.12993894	56.6698093	0.849304763	-0.235646
INTS9	179.2425312	211.122819	0.848996485	-0.23617
ENSG000002	41.49132667	48.89160018	0.848639163	-0.236777
ALDH5A1	291.2691132	343.352374	0.848309595	-0.237337
CUX1	804.9317374	948.9415126	0.848241674	-0.237453
SPRED2	381.7202053	450.0249562	0.848220082	-0.237489
BCAS3	1138.522004	1342.29666	0.848189553	-0.237541
BSPRY	424.8711851	501.1389019	0.847811223	-0.238185
EGR2	229.8619497	271.1261465	0.847804436	-0.238197
MAP2K1	376.7412461	444.4690926	0.847620796	-0.238509
GALNT10	363.4640216	428.9126743	0.847407977	-0.238871
FBXL4	426.5308382	503.3612473	0.847365268	-0.238944
FRMPD3	293.7585928	346.6858922	0.847333565	-0.238998
TAS2R3	146.8792964	173.3429461	0.847333565	-0.238998
DSE	321.9726949	380.0210742	0.847249579	-0.239141
MARS1	810.7405231	957.8308945	0.846433883	-0.240531
SDAD1P2	8.80513933	6.638612267	0.753947441	-0.407464
ENSG000002	8.80513933	6.638612267	0.753947441	-0.407464
H2AC17	8.80513933	6.638612267	0.753947441	-0.407464
ENSG000002	8.80513933	6.638612267	0.753947441	-0.407464
ROCK1P1	8.80513933	6.638612267	0.753947441	-0.407464
FSCN3	6.603854498	4.9789592	0.753947441	-0.407464
CTCFL	6.603854498	4.9789592	0.753947441	-0.407464
RBPJL	6.603854498	4.9789592	0.753947441	-0.407464
ACSBG2	6.603854498	4.9789592	0.753947441	-0.407464
LHCGR	6.603854498	4.9789592	0.753947441	-0.407464
SLC22A9	6.603854498	4.9789592	0.753947441	-0.407464
CNDP1	6.603854498	4.9789592	0.753947441	-0.407464
CFAP100	6.603854498	4.9789592	0.753947441	-0.407464
NPY2R	6.603854498	4.9789592	0.753947441	-0.407464
ENSG000002	6.603854498	4.9789592	0.753947441	-0.407464
HCP5	6.603854498	4.9789592	0.753947441	-0.407464
ENSG000002	6.603854498	4.9789592	0.753947441	-0.407464
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IGKV1OR2-1	6.603854498	4.9789592	0.753947441	-0.407464
RNASEH1P2	6.603854498	4.9789592	0.753947441	-0.407464
RPEP4	6.603854498	4.9789592	0.753947441	-0.407464
LINC01135	6.603854498	4.9789592	0.753947441	-0.407464
RPL29P24	6.603854498	4.9789592	0.753947441	-0.407464
UGT1A1	6.603854498	4.9789592	0.753947441	-0.407464
MOCS2-DT	6.603854498	4.9789592	0.753947441	-0.407464
KRT8P46	6.603854498	4.9789592	0.753947441	-0.407464
LINC02882	6.603854498	4.9789592	0.753947441	-0.407464
ENSG000002	6.603854498	4.9789592	0.753947441	-0.407464
DND1	6.603854498	4.9789592	0.753947441	-0.407464
ZNF625	6.603854498	4.9789592	0.753947441	-0.407464
TGFBR3L	6.603854498	4.9789592	0.753947441	-0.407464
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FGF22	5.503212081	4.149132667	0.753947441	-0.407464
P2RX6	5.503212081	4.149132667	0.753947441	-0.407464
CST4	5.503212081	4.149132667	0.753947441	-0.407464
SPAM1	5.503212081	4.149132667	0.753947441	-0.407464
FNDC11	5.503212081	4.149132667	0.753947441	-0.407464
ANGPTL6	5.503212081	4.149132667	0.753947441	-0.407464
HHLA1	5.503212081	4.149132667	0.753947441	-0.407464
GCM1	5.503212081	4.149132667	0.753947441	-0.407464
SLC28A2	5.503212081	4.149132667	0.753947441	-0.407464
GLRA1	5.503212081	4.149132667	0.753947441	-0.407464
CHRNA6	5.503212081	4.149132667	0.753947441	-0.407464
DRD3	5.503212081	4.149132667	0.753947441	-0.407464
JAKMIP1	5.503212081	4.149132667	0.753947441	-0.407464
RABGEF1	5.503212081	4.149132667	0.753947441	-0.407464
KASH5	5.503212081	4.149132667	0.753947441	-0.407464
PM20D1	5.503212081	4.149132667	0.753947441	-0.407464
FANCD2OS	5.503212081	4.149132667	0.753947441	-0.407464
OR7G2	5.503212081	4.149132667	0.753947441	-0.407464
GPR148	5.503212081	4.149132667	0.753947441	-0.407464
PLD5	5.503212081	4.149132667	0.753947441	-0.407464
PLGLB1	5.503212081	4.149132667	0.753947441	-0.407464
CYP27C1	5.503212081	4.149132667	0.753947441	-0.407464
SLC22A25	5.503212081	4.149132667	0.753947441	-0.407464
SLC12A5-AS	5.503212081	4.149132667	0.753947441	-0.407464
KRT25	5.503212081	4.149132667	0.753947441	-0.407464
CYS1	5.503212081	4.149132667	0.753947441	-0.407464
ENSG000002	5.503212081	4.149132667	0.753947441	-0.407464
LGMNP1	5.503212081	4.149132667	0.753947441	-0.407464
MARK2P18	5.503212081	4.149132667	0.753947441	-0.407464
IL6STP1	5.503212081	4.149132667	0.753947441	-0.407464
RPS28P7	5.503212081	4.149132667	0.753947441	-0.407464
MTND6P5	5.503212081	4.149132667	0.753947441	-0.407464
LINC03016	5.503212081	4.149132667	0.753947441	-0.407464
OR5K1	5.503212081	4.149132667	0.753947441	-0.407464
LINC00987	5.503212081	4.149132667	0.753947441	-0.407464
CCZ1P1	5.503212081	4.149132667	0.753947441	-0.407464
USP2-AS1	5.503212081	4.149132667	0.753947441	-0.407464
CD63-AS1	5.503212081	4.149132667	0.753947441	-0.407464
HNRNPUP1	5.503212081	4.149132667	0.753947441	-0.407464
TSPAN5-DT	5.503212081	4.149132667	0.753947441	-0.407464
ZNF132-DT	5.503212081	4.149132667	0.753947441	-0.407464
ENSG000002	5.503212081	4.149132667	0.753947441	-0.407464
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KLF1	4.402569665	3.319306133	0.753947441	-0.407464
OGFOD2	4.402569665	3.319306133	0.753947441	-0.407464
HDGFL1	4.402569665	3.319306133	0.753947441	-0.407464
HRH4	4.402569665	3.319306133	0.753947441	-0.407464
USP26	4.402569665	3.319306133	0.753947441	-0.407464
KLHL1	4.402569665	3.319306133	0.753947441	-0.407464
ZDHHC19	4.402569665	3.319306133	0.753947441	-0.407464
ACSL6	4.402569665	3.319306133	0.753947441	-0.407464
PGAM2	4.402569665	3.319306133	0.753947441	-0.407464
TGM6	4.402569665	3.319306133	0.753947441	-0.407464
NTSR2	4.402569665	3.319306133	0.753947441	-0.407464
NLRP5	4.402569665	3.319306133	0.753947441	-0.407464
SPNS3	4.402569665	3.319306133	0.753947441	-0.407464
PDIA2	4.402569665	3.319306133	0.753947441	-0.407464
SPACDR	4.402569665	3.319306133	0.753947441	-0.407464
BPIFB4	4.402569665	3.319306133	0.753947441	-0.407464
VWC2	4.402569665	3.319306133	0.753947441	-0.407464
CALHM6	4.402569665	3.319306133	0.753947441	-0.407464

NPM1P27	51.73019357	15.55641824	0.300722212	-1.733497
CYB5A	898.1242117	270.0149737	0.300643241	-1.733876
DTWD1	369.8158519	111.1172731	0.300466496	-1.734724
BORCS8	92.45396297	27.77931829	0.300466496	-1.734724
ZCCHC9	203.618847	61.11450023	0.300141667	-1.736284
KNL1	203.618847	61.11450023	0.300141667	-1.736284
GRM4	40.7237694	12.22290005	0.300141667	-1.736284
ADRB1	396.2312699	118.8954823	0.300065874	-1.736649
TRIP11	5852.115727	1755.652916	0.30000311	-1.736951
ERVK3-1	151.8886534	45.55808199	0.299943945	-1.737235
DTX2	596.5481896	178.8988098	0.299889955	-1.737495
TRIP10	574.5353413	172.2317734	0.299775768	-1.738044
THAP5	471.0749542	141.1189369	0.299567905	-1.739045
EFCAB2	200.3169198	60.0033275	0.299541984	-1.73917
HOXC4	89.15203572	26.66814555	0.299131089	-1.74115
TMA7	118.869381	35.55752741	0.299131089	-1.74115
GABPB1-AS1	59.43469048	17.7787637	0.299131089	-1.74115
ESR2	29.71734524	8.889381852	0.299131089	-1.74115
FNTB	29.71734524	8.889381852	0.299131089	-1.74115
H2AC19	29.71734524	8.889381852	0.299131089	-1.74115
PYGO1	832.0856667	248.9026918	0.299131089	-1.74115
PLSCR1	434.7537544	130.0072096	0.299036428	-1.741607
NCAPD3	948.7537628	283.3490465	0.298653937	-1.743453
TP73	78.14561156	23.33462736	0.29860445	-1.743692
MAP3K19	78.14561156	23.33462736	0.29860445	-1.743692
CDC42EP1	368.7152095	110.0061004	0.298349777	-1.744923
DOCK8	1512.28268	451.136129	0.298314683	-1.745093
IKZF3	387.4261305	115.5619641	0.298281285	-1.745255
STRA6	48.42826632	14.44524551	0.298281285	-1.745255
ABCD2	48.42826632	14.44524551	0.298281285	-1.745255
DHRS4	37.42184215	11.11172731	0.296931596	-1.751797
ENSG000002	37.42184215	11.11172731	0.296931596	-1.751797
STEAP1B	18.71092108	5.555863657	0.296931596	-1.751797
CD1E	18.71092108	5.555863657	0.296931596	-1.751797
POLR2M	18.71092108	5.555863657	0.296931596	-1.751797
ZNF138	250.9464709	74.44857301	0.29667113	-1.753064
SLC35A3	176.1027866	52.22511838	0.296560431	-1.753602
OSGEPL1	138.6809445	41.11339106	0.296460276	-1.754089
MON1B	1570.616728	465.5813745	0.296432202	-1.754226
CNOT2	1797.349066	532.2517384	0.296131535	-1.75569
ROGDI	63.83726015	18.88993643	0.295907694	-1.756781
RGS9	127.6745203	37.77987287	0.295907694	-1.756781
POTEI	345.6017187	102.2278913	0.295796826	-1.757322
HEYL	244.3426164	72.22622754	0.295594066	-1.758311
CHST1	45.12633907	13.33407278	0.295483149	-1.758852
ZNF736	361.0107125	106.6725822	0.295483149	-1.758852
CCDC66	647.1777408	191.1217098	0.295315642	-1.75967
SLC43A3	71.54175706	21.1122819	0.295104325	-1.760703
ANKRD18B	71.54175706	21.1122819	0.295104325	-1.760703
GRK3	3941.400493	1162.286677	0.294891798	-1.761742
ZNF239	248.7451861	73.33740027	0.294829425	-1.762048
HELB	362.111355	106.6725822	0.294585024	-1.763244
FLI1	441.3576089	130.0072096	0.294562067	-1.763356
ENSG000002	26.41541799	7.77820912	0.294457166	-1.76387
DPY19L2	770.4496914	226.6792372	0.294216793	-1.765049
LRCH1	635.0706742	186.6770189	0.293946842	-1.766373
CLSPN	121.0706658	35.55752741	0.293692342	-1.767622
MSN	1876.59532	551.1416748	0.293692342	-1.767622
NAMPT	2065.905815	606.7003114	0.293672784	-1.767719
ST3GAL6	136.4796596	40.00221833	0.293100221	-1.770534
APOL1	432.5524696	126.6736914	0.29285162	-1.771758
FAM13A-AS	75.94432672	22.22345463	0.292628239	-1.772859
ZNF350	1083.032138	316.6842285	0.2924052	-1.773959
IRF6	41.82441182	12.22290005	0.292243202	-1.774759
HNRNPUL2	99.05781747	28.89049102	0.291652812	-1.777676
TMLHE	156.2912231	45.55808199	0.29149482	-1.778458
ANXA3	1493.571759	434.468538	0.290892309	-1.781443
CBX5	1602.535358	465.5813745	0.290527989	-1.783251
SSPN	88.0513933	25.55697282	0.290250635	-1.784629
SENP8	88.0513933	25.55697282	0.290250635	-1.784629
LSM8	478.7794511	138.8965914	0.290105582	-1.78535
UBE2L3	532.7109295	154.4530097	0.289937753	-1.786185
TMEM220	395.1306275	114.4507913	0.28965305	-1.787602
NAF1	709.9143585	205.5669553	0.289565851	-1.788037
SLC4A4	6584.042934	1904.550062	0.289267564	-1.789524
RAB3IP	1179.88867	341.1300286	0.289120522	-1.790257
ZNF398	719.8201403	207.7893008	0.288668362	-1.792515
SCEL	23.11349074	6.667036389	0.288447836	-1.793618
KLHL14	23.11349074	6.667036389	0.288447836	-1.793618
LINGO4	23.11349074	6.667036389	0.288447836	-1.793618
AACSP1	23.11349074	6.667036389	0.288447836	-1.793618
TRIP13	53.9314784	15.55641824	0.288447836	-1.793618
KCNJ3	53.9314784	15.55641824	0.288447836	-1.793618
H3C3	77.04496914	22.22345463	0.288447836	-1.793618
CYSLTR1	61.63597531	17.7787637	0.288447836	-1.793618
MSC	30.81798766	8.889381852	0.288447836	-1.793618
HNRNPA3P6	30.81798766	8.889381852	0.288447836	-1.793618
TSPAN7	15.40899383	4.444690926	0.288447836	-1.793618
HESX1	15.40899383	4.444690926	0.288447836	-1.793618
LINC01266	15.40899383	4.444690926	0.288447836	-1.793618
LINC02614	15.40899383	4.444690926	0.288447836	-1.793618
ENSG000002	15.40899383	4.444690926	0.288447836	-1.793618
ENSG000002	15.40899383	4.444690926	0.288447836	-1.793618
MRPL45P2	15.40899383	4.444690926	0.288447836	-1.793618
PDE6C	7.704496914	2.222345463	0.288447836	-1.793618
IL11	7.704496914	2.222345463	0.288447836	-1.793618
CIBAR2	7.704496914	2.222345463	0.288447836	-1.793618
PRORSD1P	7.704496914	2.222345463	0.288447836	-1.793618
DEFB1	7.704496914	2.222345463	0.288447836	-1.793618
KLK6	7.704496914	2.222345463	0.288447836	-1.793618
JMJD7-PLA2	7.704496914	2.222345463	0.288447836	-1.793618
ALG14	225.7128171	266.6814555	0.846376125	-0.240629
PMM1	98.74935747	116.6731368	0.846376125	-0.240629
EMILIN3	70.53525534	83.33795486	0.846376125	-0.240629
ZNF385D	42.3211532	50.00277291	0.846376125	-0.240629
UBASH3B	28.21410213	33.33518194	0.846376125	-0.240629
CTDNEP1P1	14.10705107	16.66759097	0.846376125	-0.240629
ZNF333	324.4621745	383.3545923	0.846376125	-0.240629
U2AF2	2050.501364	2423.467727	0.846102195	-0.241096
COPS8	312.0147765	368.9093468	0.845776284	-0.241652
IBA57	78.00369414	92.22733671	0.845776284	-0.241652
FOXC1	453.9151138	536.6964293	0.845757656	-0.241684
POU2F2	63.89664307	75.55974574	0.845643966	-0.241878
KRI1	327.7814807	387.7992833	0.84523488	-0.242576
MPDZ	2594.037743	3069.059084	0.845222484	-0.242597
NXN	363.4640216	430.0238471	0.845218292	-0.242604
FASN	5261.930048	6225.900814	0.845167664	-0.242691
HOPX	107.0476228	126.6736914	0.845065946	-0.242864
TMCO3	882.9354315	1045.61354	0.844418514	-0.24397
COA8	107.8774493	127.7848641	0.844211481	-0.244324
CNTROB	590.8364918	700.0388208	0.844005324	-0.244676
GNAI2	886.2547376	1050.058231	0.844005324	-0.244676
CYTH3	187.5407965	222.2345463	0.843886784	-0.244879
CTBS	288.7796336	342.2412013	0.843789797	-0.245044
RCC1L	274.6725825	325.5736103	0.843657391	-0.245271
EPAS1	1279.592514	1516.750778	0.843640585	-0.2453
MRPL37	665.5208798	788.9326393	0.843571234	-0.245418
LMO4	341.0587052	404.4668742	0.843230254	-0.246001
ARMC7	58.08785734	68.89270935	0.843164072	-0.246115
NT5C2	726.0982167	861.1588669	0.843164072	-0.246115
CNOT11	493.7467874	585.5880295	0.843164072	-0.246115
TBC1D10A	94.6002248	112.2284459	0.842925553	-0.246523
TIMM50	531.9188079	631.1461115	0.842782358	-0.246768
PPP1R15A	350.1867971	415.5786016	0.842648769	-0.246997
LMAN2	2531.800753	3004.611066	0.842638431	-0.247014
THADA	2379.942498	2824.601083	0.842576501	-0.24712
SRPX	36.51236747	43.33573653	0.842546369	-0.247172
ANKLE1	36.51236747	43.33573653	0.842546369	-0.247172
COL5A2	2696.106407	3200.177467	0.842486529	-0.247274
TIA1	1010.728718	1200.06655	0.842227223	-0.247719
LARS2	286.290154	340.0188558	0.84198317	-0.248137
NAB1	1102.839463	1310.07265	0.8418155	-0.248424
CHD2	2501.097172	2971.275884	0.841758648	-0.248521
KANSL2	287.1199805	341.1300286	0.841673135	-0.248668
MYO1G	58.91768387	70.00388208	0.841634523	-0.248734
HMGCL	442.2975423	525.584702	0.841534277	-0.248906
ZNF18	222.3935109	264.4591101	0.840937228	-0.24993
COMMD6	229.8619497	273.3484919	0.840911717	-0.249974
LRRC4C	118.6651943	141.1189369	0.840887813	-0.250015
CDYL2	244.7988273	291.1272556	0.840865369	-0.250053
ZDHHC5	1202.418647	1430.079305	0.840805571	-0.250156
KLHL28	477.1502567	567.8092658	0.840335453	-0.250963
ENSG000002	74.684388	88.89381852	0.840152772	-0.251276
TOR2A	59.7475104	71.11505481	0.840152772	-0.251276
NAALADL1	29.8737552	35.55752741	0.840152772	-0.251276
IZUMO1	29.8737552	35.55752741	0.840152772	-0.251276
ADAMTSL5	29.8737552	35.55752741	0.840152772	-0.251276
TOLLIP	7.4684388	8.889381852	0.840152772	-0.251276
POU4F2	7.4684388	8.889381852	0.840152772	-0.251276
GRHL3	7.4684388	8.889381852	0.840152772	-0.251276
EXOSC4	7.4684388	8.889381852	0.840152772	-0.251276
WT1	7.4684388	8.889381852	0.840152772	-0.251276
SOWAHD	7.4684388	8.889381852	0.840152772	-0.251276
SCNN1G	82.1528268	97.78320037	0.840152772	-0.251276
EFNA5	277.1620621	330.0183012	0.839838461	-0.251816
DMXL2	2629.720284	3131.284757	0.839821507	-0.251845
CINP	337.7393991	402.2445288	0.839637024	-0.252162
MYO10	2573.29208	3065.725566	0.83937457	-0.252613
SECISBP2L	1635.588097	1948.996971	0.839194787	-0.252922
EMILIN1	90.45109214	107.7837549	0.839190397	-0.25293
MPV17	180.9021843	215.5675099	0.839190397	-0.25293
LPXN	82.98265334	98.8943731	0.839103892	-0.253079
DAB2	731.0771759	872.2705942	0.838131173	-0.254752
MAP6	145.2196433	173.3429461	0.837759174	-0.255393
TTPAL	175.9232251	210.0116462	0.837683187	-0.255523
CYTH1	489.5976547	584.4768567	0.837668163	-0.255549
C6orf62	1579.159893	1885.660125	0.83745733	-0.255912
SMAP2	629.0085123	751.1527665	0.837390928	-0.256027
DCXR	514.4924507	614.4785205	0.837283051	-0.256213
TRAF4	883.765258	1055.614095	0.837204867	-0.256347
ANKIB1	1253.038065	1496.749669	0.837172769	-0.256403
ST6GALNA(	230.6917763	275.5708374	0.837141471	-0.256457
JKAMP	1117.77634	1335.629623	0.836890947	-0.256888
FAM241B	100.4090105	120.006655	0.836695353	-0.257226
BCOR	2984.056214	3566.864468	0.836604878	-0.257382
ING5	402.4658687	481.1377927	0.836487748	-0.257584
DRC7	23.23514293	27.77931829	0.836418759	-0.257703
SEPTIN4-AS	23.23514293	27.77931829	0.836418759	-0.257703
TNS1	2937.585928	3512.417004	0.836343158	-0.257833
PCDH12	170.9442659	204.4557826	0.836094063	-0.258263
SH3YL1	569.2610019	681.1488844	0.835736525	-0.25888
METTL26	281.3111948	336.6853376	0.835531469	-0.259234
AIMP1	414.9132667	496.694211	0.835349512	-0.259548
CFAP54	502.0450527	601.1444477	0.835148781	-0.259895
EIF2B3	274.6725825	328.9071285	0.835106809	-0.259967
PHB1	494.5766139	592.2550659	0.835073674	-0.260025
KLHL18	165.1354801	197.7887462	0.834908372	-0.26031
UBIAD1	212.4355925	254.4585555	0.834853409	-0.260405
SPATA24	47.3001124	56.6698093	0.834661577	-0.260737
DNAJA3	157.6670413	188.8993643	0.834661577	-0.260737
DDB1	3738.368533	4479.13728	0.834617985	-0.260812
UBAC2	308.6954704	370.0205196	0.834265815	-0.261421
SSBP3-AS1	4.402569665	3.319306133	0.753947441	-0.407464
OR2L2	4.402569665	3.319306133	0.753947441	-0.407464
TRAJ6	4.402569665	3.319306133	0.753947441	-0.407464
TAS2R14	4.402569665	3.319306133	0.753947441	-0.407464
ST13P5	4.402569665	3.319306133	0.753947441	-0.407464
H3P4	4.402569665	3.319306133	0.753947441	-0.407464
LCNL1	4.402569665	3.319306133	0.753947441	-0.407464
FTH1P10	4.402569665	3.319306133	0.753947441	-0.407464
FGGY-DT	4.402569665	3.319306133	0.753947441	-0.407464
TUBB4BP2	4.402569665	3.319306133	0.753947441	-0.407464
SEC63P1	4.402569665	3.319306133	0.753947441	-0.407464
RPL10P3	4.402569665	3.319306133	0.753947441	-0.407464
LINC01503	4.402569665	3.319306133	0.753947441	-0.407464
YWHAEP5	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
CHCHD2P6	4.402569665	3.319306133	0.753947441	-0.407464
C4orf51	4.402569665	3.319306133	0.753947441	-0.407464
PARK7P2	4.402569665	3.319306133	0.753947441	-0.407464
PRKAG2-AS	4.402569665	3.319306133	0.753947441	-0.407464
KIAA1328P1	4.402569665	3.319306133	0.753947441	-0.407464
IFITM10	4.402569665	3.319306133	0.753947441	-0.407464
RN7SL398P	4.402569665	3.319306133	0.753947441	-0.407464
RN7SL396P	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
LINC01091	4.402569665	3.319306133	0.753947441	-0.407464
KLHL2P1	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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OR8G5	4.402569665	3.319306133	0.753947441	-0.407464
TVP23C-CDF	4.402569665	3.319306133	0.753947441	-0.407464
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TPRKBP2	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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CTNS-AS1	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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C17orf50	4.402569665	3.319306133	0.753947441	-0.407464
NBPF19	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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H4C7	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
CHD9NB	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
ENSG000002	4.402569665	3.319306133	0.753947441	-0.407464
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ANKRD36BF	4.402569665	3.319306133	0.753947441	-0.407464
STMN4	3.301927249	2.4894796	0.753947441	-0.407464
NECAB2	3.301927249	2.4894796	0.753947441	-0.407464
SLC22A18	3.301927249	2.4894796	0.753947441	-0.407464
HHLA2	3.301927249	2.4894796	0.753947441	-0.407464
PHF24	3.301927249	2.4894796	0.753947441	-0.407464
ATXN3L	3.301927249	2.4894796	0.753947441	-0.407464
C4BPA	3.301927249	2.4894796	0.753947441	-0.407464
TP53TG5	3.301927249	2.4894796	0.753947441	-0.407464
GNG13	3.301927249	2.4894796	0.753947441	-0.407464
CALML4	3.301927249	2.4894796	0.753947441	-0.407464
FXYD2	3.301927249	2.4894796	0.753947441	-0.407464
CHST4	3.301927249	2.4894796	0.753947441	-0.407464
BARHL2	3.301927249	2.4894796	0.753947441	-0.407464
SLC22A14	3.301927249	2.4894796	0.753947441	-0.407464
KLHL40	3.301927249	2.4894796	0.753947441	-0.407464
C4orf45	3.301927249	2.4894796	0.753947441	-0.407464
KRT1	3.301927249	2.4894796	0.753947441	-0.407464
XKR6	3.301927249	2.4894796	0.753947441	-0.407464
TTC36	3.301927249	2.4894796	0.753947441	-0.407464
MS4A10	3.301927249	2.4894796	0.753947441	-0.407464
WFIKKN2	3.301927249	2.4894796	0.753947441	-0.407464
CDV3P1	3.301927249	2.4894796	0.753947441	-0.407464
HTR3C	3.301927249	2.4894796	0.753947441	-0.407464
ACTG1P1	3.301927249	2.4894796	0.753947441	-0.407464
C10orf53	3.301927249	2.4894796	0.753947441	-0.407464
RIIAD1	3.301927249	2.4894796	0.753947441	-0.407464
NAIPP2	3.301927249	2.4894796	0.753947441	-0.407464
ZSCAN4	3.301927249	2.4894796	0.753947441	-0.407464
OR4A15	3.301927249	2.4894796	0.753947441	-0.407464
EPGN	3.301927249	2.4894796	0.753947441	-0.407464
CEND1	3.301927249	2.4894796	0.753947441	-0.407464
TCEAL2	3.301927249	2.4894796	0.753947441	-0.407464
HTR3D	3.301927249	2.4894796	0.753947441	-0.407464
EZHIP	3.301927249	2.4894796	0.753947441	-0.407464
C17orf99	3.301927249	2.4894796	0.753947441	-0.407464
SNTN	3.301927249	2.4894796	0.753947441	-0.407464
OR52M1	3.301927249	2.4894796	0.753947441	-0.407464
CCT8L2	3.301927249	2.4894796	0.753947441	-0.407464

OR4A16	7.704496914	2.222345463	0.288447836	-1.793618
KRT76	7.704496914	2.222345463	0.288447836	-1.793618
MATN1-AS1	7.704496914	2.222345463	0.288447836	-1.793618
FAM177B	7.704496914	2.222345463	0.288447836	-1.793618
SERPINB13	7.704496914	2.222345463	0.288447836	-1.793618
TRDJ3	7.704496914	2.222345463	0.288447836	-1.793618
PDCL3P5	7.704496914	2.222345463	0.288447836	-1.793618
RPL7AP60	7.704496914	2.222345463	0.288447836	-1.793618
B3GALT9	7.704496914	2.222345463	0.288447836	-1.793618
ANXA2R-AS	7.704496914	2.222345463	0.288447836	-1.793618
PRRT4	7.704496914	2.222345463	0.288447836	-1.793618
PGM5P4	7.704496914	2.222345463	0.288447836	-1.793618
ARID3BP1	7.704496914	2.222345463	0.288447836	-1.793618
LINC00852	7.704496914	2.222345463	0.288447836	-1.793618
TMEM44-AS	7.704496914	2.222345463	0.288447836	-1.793618
PPIAP70	7.704496914	2.222345463	0.288447836	-1.793618
SLC16A6P1	7.704496914	2.222345463	0.288447836	-1.793618
SNHG15	7.704496914	2.222345463	0.288447836	-1.793618
ZC3H12A-DT	7.704496914	2.222345463	0.288447836	-1.793618
RPL7AP70	7.704496914	2.222345463	0.288447836	-1.793618
MTND4P14	7.704496914	2.222345463	0.288447836	-1.793618
IFNA4	7.704496914	2.222345463	0.288447836	-1.793618
MAP3K2-DT	7.704496914	2.222345463	0.288447836	-1.793618
CLIC4P3	7.704496914	2.222345463	0.288447836	-1.793618
ENSG000002	7.704496914	2.222345463	0.288447836	-1.793618
UBR5-DT	7.704496914	2.222345463	0.288447836	-1.793618
SMIM31	7.704496914	2.222345463	0.288447836	-1.793618
LINC01094	7.704496914	2.222345463	0.288447836	-1.793618
ENSG000002	7.704496914	2.222345463	0.288447836	-1.793618
SRP54-AS1	7.704496914	2.222345463	0.288447836	-1.793618
ATG12P1	7.704496914	2.222345463	0.288447836	-1.793618
MIR4453HG	7.704496914	2.222345463	0.288447836	-1.793618
ENSG000002	7.704496914	2.222345463	0.288447836	-1.793618
XIAPP1	7.704496914	2.222345463	0.288447836	-1.793618
ENSG000002	7.704496914	2.222345463	0.288447836	-1.793618
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ENSG000002	7.704496914	2.222345463	0.288447836	-1.793618
CYP2G1P	7.704496914	2.222345463	0.288447836	-1.793618
CCR5	107.8629568	31.11283648	0.288447836	-1.793618
CEP85L	320.2869431	92.22733671	0.287952221	-1.796099
POTEF	119.9700234	34.44635467	0.287124681	-1.800251
SAMD9L	1188.69381	341.1300286	0.286978889	-1.800983
NAMPTP1	178.3040714	51.11394565	0.286667294	-1.802551
RAPGEF6	81.44753881	23.33462736	0.286498864	-1.803399
ITGA2	582.2398382	166.6759097	0.286266756	-1.804568
RAB23	668.0899467	191.1217098	0.286071824	-1.805551
FAIM	233.3361923	66.67036389	0.28572663	-1.807293
DCTN6	319.1863007	91.11616398	0.285463893	-1.80862
ZNF662	424.8479727	121.1178277	0.285085102	-1.810535
HOXD1	128.7751627	36.66870014	0.284749787	-1.812233
ENSG000002	42.92505424	12.22290005	0.284749787	-1.812233
SNAI2	249.8458285	71.11505481	0.28463575	-1.812811
NKAPD1	327.9914401	93.33850944	0.284576053	-1.813114
ADAMTS8	78.14561156	22.22345463	0.28438519	-1.814082
RGPD2	78.14561156	22.22345463	0.28438519	-1.814082
ATP5MF	226.7323378	64.44801842	0.284247139	-1.814782
EIF4EBP1	289.4689555	82.22678213	0.284060797	-1.815728
KCNK6	35.22055732	10.00055458	0.283940839	-1.816338
SNRNP27	125.4732355	35.55752741	0.283387348	-1.819153
NPIPA9.1	62.73661773	17.7787637	0.283387348	-1.819153
CSPG5	341.1991491	96.67202764	0.283330213	-1.819444
SALL1	305.9785917	86.67147305	0.283259925	-1.819802
TRAF3IP2	945.4518356	267.7926283	0.283243015	-1.819888
VSIG2	90.25267814	25.55697282	0.283171351	-1.820253
RNF138	208.0214167	58.89215477	0.283106209	-1.820585
GATM	208.0214167	58.89215477	0.283106209	-1.820585
HLA-DRB1	1018.094235	287.7937374	0.282678879	-1.822764
CHRNA3	27.51606041	7.77820912	0.282678879	-1.822764
RAMAC	165.0963624	46.66925472	0.282678879	-1.822764
ZBTB38	2437.922952	688.9270935	0.282587722	-1.823229
ZNF652	3890.770942	1098.949831	0.282450406	-1.823931
NABP1	342.2997915	96.67202764	0.282419184	-1.82409
PPFIBP2	1051.113508	296.6831193	0.282256024	-1.824924
PDE4D	1023.597447	288.9049102	0.282244657	-1.824982
ENPP1	523.9057902	147.7859733	0.282085016	-1.825798
ZNF37A	571.2334141	161.1200461	0.28205641	-1.825944
COL3A1	134.2783748	37.77987287	0.281354856	-1.829537
KRT19	2346.569632	660.0366025	0.281277229	-1.829935
CDKL1	106.7623144	30.00166375	0.281013613	-1.831288
CKS2	106.7623144	30.00166375	0.281013613	-1.831288
FAT4	3387.777357	951.1638581	0.280763391	-1.832573
TPX2	158.4925079	44.44690926	0.280435396	-1.83426
CBR3	99.05781747	27.77931829	0.280435396	-1.83426
CCDC18-AS1	79.24625397	22.22345463	0.280435396	-1.83426
C9	39.62312699	11.11172731	0.280435396	-1.83426
SNHG10	19.81156349	5.555863657	0.280435396	-1.83426
NAIPP4	19.81156349	5.555863657	0.280435396	-1.83426
ENSG000002	19.81156349	5.555863657	0.280435396	-1.83426
SOX5	234.4368347	65.55919115	0.279645437	-1.838329
DPYSL3	1785.241999	498.9165564	0.279467185	-1.839249
POLE3	278.4625313	77.7820912	0.279326956	-1.839973
ENSG000002	290.5695979	81.11560939	0.27916069	-1.840832
SACS	3748.78807	1045.61354	0.278920419	-1.842075
ATP2B4	1906.312665	531.1405656	0.278621957	-1.843619
TIPIN	95.75589022	26.66814555	0.278501359	-1.844244
PPIAP22	159.5931504	44.44690926	0.278501359	-1.844244
KRIT1	235.5374771	65.55919115	0.278338683	-1.845087
PTGES3	679.0963709	188.8993643	0.278162824	-1.845998
MTARC2	460.06853	127.7848641	0.277751804	-1.848132
GADD45GIP	158.4968679	190.0105371	0.834147781	-0.261625
DOLPP1	142.7301637	171.1206006	0.834091063	-0.261723
FARP1	1340.169851	1607.866942	0.833507933	-0.262732
TTLL4	558.473257	670.0371571	0.83349595	-0.262753
PLA2G7	127.7932861	153.3418369	0.833388257	-0.262939
ATG12	151.8582556	182.232328	0.833322261	-0.263054
ZNF563	112.026582	134.4519005	0.83320936	-0.263249
MAT2A	1258.017025	1510.083742	0.833077656	-0.263477
RNF167	650.5840022	781.1544302	0.832849405	-0.263872
GGT6	56.42820427	67.78153662	0.832501107	-0.264476
EXOC8	477.1502567	573.3651294	0.832192668	-0.265011
MFNG	32.3632348	38.8910456	0.832151317	-0.265082
STARD10	682.947237	821.1566485	0.831689347	-0.265883
N4BP2L2	1939.304608	2333.462736	0.831084456	-0.266933
INPP5B	451.4256342	543.3634657	0.830798651	-0.267429
ZNF618	698.7139411	841.1577577	0.83065743	-0.267674
KIAA2013	585.027706	704.4835117	0.830434916	-0.268061
PRR14	437.3185831	526.6958747	0.830305693	-0.268286
PCDHGA4	214.9250721	258.9032464	0.830136644	-0.268579
GNG5	165.9653067	200.0110917	0.829780515	-0.269198
H4C15	24.894796	30.00166375	0.829780515	-0.269198
RHOG	182.5618373	220.0122008	0.829780515	-0.269198
NME2P1	16.59653067	20.00110917	0.829780515	-0.269198
POM121B	16.59653067	20.00110917	0.829780515	-0.269198
LIN37	16.59653067	20.00110917	0.829780515	-0.269198
FOXP3	8.298265334	10.00055458	0.829780515	-0.269198
ENSG000001	8.298265334	10.00055458	0.829780515	-0.269198
SLC24A2	8.298265334	10.00055458	0.829780515	-0.269198
RPL10AP6	8.298265334	10.00055458	0.829780515	-0.269198
TGFB3-AS1	8.298265334	10.00055458	0.829780515	-0.269198
TCF24	8.298265334	10.00055458	0.829780515	-0.269198
DOC2B	8.298265334	10.00055458	0.829780515	-0.269198
ERLEC1	1121.095647	1351.186041	0.829712277	-0.269317
SKIC8	382.5500319	461.1366835	0.829580568	-0.269546
SPATA6	442.2975423	533.3629111	0.829261902	-0.2701
TRRAP	3457.887165	4170.231261	0.829183551	-0.270237
PIGM	375.9114196	453.3584744	0.829170382	-0.27026
CHFR	677.1384512	816.7119576	0.829103143	-0.270377
CLIP2	184.2214904	222.2345463	0.828950735	-0.270642
MDN1	2848.794489	3436.857258	0.828895201	-0.270738
DDX41	678.7981043	818.9343031	0.828879804	-0.270765
RPL7P9	159.3266944	192.2328825	0.828821231	-0.270867
CARS2	461.3835526	556.6975385	0.828786766	-0.270927
C1orf115	67.2159492	81.11560939	0.82864383	-0.271176
UBXN4	826.5072272	997.8331128	0.828302064	-0.271771
GRK2	1164.246626	1405.633505	0.828271823	-0.271824
H4C11	50.61941854	61.11450023	0.828271823	-0.271824
GPR21	143.5599903	173.3429461	0.828184783	-0.271975
EMC1	1936.815129	2339.0186	0.828046057	-0.272217
CMPK2	76.34404107	92.22733671	0.827781044	-0.272679
TCF3	789.1650332	953.3862036	0.827749584	-0.272734
EMC3	535.2381114	646.7025297	0.827641906	-0.272921
ARF5	408.2746544	493.3606928	0.827537865	-0.273103
SLC39A3	161.816174	195.5664007	0.827423184	-0.273303
SHANK2	1698.654914	2053.447208	0.827221127	-0.273655
GPC4	947.6619011	1145.619086	0.827205057	-0.273683
DYNC1H1	17155.00392	20745.5949	0.826922728	-0.274176
ASXL1	1910.26068	2310.128109	0.826906816	-0.274203
GRK4	25.72462253	31.11283648	0.826817013	-0.27436
NIPA1	25.72462253	31.11283648	0.826817013	-0.27436
RAVER1	601.6242367	727.8181391	0.826613414	-0.274715
SCD5	550.1749916	665.5924661	0.82659438	-0.274749
TGFB1	429.8501443	520.0288383	0.826589052	-0.274758
ZNF737	940.1934623	1137.840877	0.826296085	-0.275269
CADM4	526.9398487	637.8131478	0.826166489	-0.275496
TDRKH	224.8829905	272.2373192	0.82605497	-0.27569
RPTOR	1160.097494	1404.522333	0.825972978	-0.275834
AGMAT	17.4263572	21.1122819	0.825413249	-0.276811
COMMD3	17.4263572	21.1122819	0.825413249	-0.276811
LINS1	209.9461129	254.4585555	0.825069971	-0.277412
MRPL28	306.2059908	371.1316923	0.825060207	-0.277429
CAPRIN2	2015.64865	2443.468836	0.824912771	-0.277687
VSIG10	360.1447155	436.6908835	0.824713153	-0.278036
LRRC59	413.2536136	501.1389019	0.824628884	-0.278183
RAF1	1715.251444	2081.226526	0.824154134	-0.279014
DGAT2	53.10889814	64.44801842	0.824057891	-0.279182
COMMD1	53.10889814	64.44801842	0.824057891	-0.279182
SNTB2	213.2654191	258.9032464	0.823726323	-0.279763
NUP37	365.1236747	443.3579198	0.823541564	-0.280087
PSMF1	776.7176352	943.385649	0.823329925	-0.280457
RUNX3	187.5407965	227.7904099	0.823304179	-0.280503
FLYWCH2	179.2425312	217.7898554	0.823006797	-0.281024
ANKZF1	242.3093477	294.4607738	0.822891771	-0.281225
THAP9	242.3093477	294.4607738	0.822891771	-0.281225
MTCH1	1921.048425	2334.573909	0.822868969	-0.281265
PGPEP1	170.9442659	207.7893008	0.822680789	-0.281595
SIK2	541.8767263	658.9254297	0.822364264	-0.282151
SLC35B2	688.7560227	837.8242395	0.822076983	-0.282655
ZFAND2B	117.8353677	143.3412824	0.822061627	-0.282682
ADCYAP1	9.128091867	11.11172731	0.82148271	-0.283698
MFSD14A	9.128091867	11.11172731	0.82148271	-0.283698
RBM34	9.128091867	11.11172731	0.82148271	-0.283698
PRAMEF17	9.128091867	11.11172731	0.82148271	-0.283698
PBX2P1	9.128091867	11.11172731	0.82148271	-0.283698
ARHGAP9	45.64045934	55.55863657	0.82148271	-0.283698
GATA5	45.64045934	55.55863657	0.82148271	-0.283698
HPGD	27.3842756	33.33518194	0.82148271	-0.283698
ZNF746	174.263572	212.2339917	0.821091714	-0.284385
DDX23	936.0443296	1140.063222	0.821045983	-0.284465
PRMT1	1046.411259	1274.515123	0.821026946	-0.284499
EIF4ENIF1	523.6205426	637.8131478	0.82096229	-0.284612
TAT	3.301927249	2.4894796	0.753947441	-0.407464
SNF8P1	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
LORICRIN	3.301927249	2.4894796	0.753947441	-0.407464
IER5L-AS1	3.301927249	2.4894796	0.753947441	-0.407464
DHX16	3.301927249	2.4894796	0.753947441	-0.407464
CLLU1-AS1	3.301927249	2.4894796	0.753947441	-0.407464
FABP9	3.301927249	2.4894796	0.753947441	-0.407464
DPP9-AS1	3.301927249	2.4894796	0.753947441	-0.407464
C22orf42	3.301927249	2.4894796	0.753947441	-0.407464
IGKV1D-42	3.301927249	2.4894796	0.753947441	-0.407464
TRAV22	3.301927249	2.4894796	0.753947441	-0.407464
TRAV25	3.301927249	2.4894796	0.753947441	-0.407464
RPL12P42	3.301927249	2.4894796	0.753947441	-0.407464
ST13P11	3.301927249	2.4894796	0.753947441	-0.407464
LAT	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
RBM33-DT	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
SUPT20HL2	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
BACE2-IT1	3.301927249	2.4894796	0.753947441	-0.407464
RPL29P11	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
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EIF2S2P2	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
RPL39P17	3.301927249	2.4894796	0.753947441	-0.407464
LINC01090	3.301927249	2.4894796	0.753947441	-0.407464
C16orf82	3.301927249	2.4894796	0.753947441	-0.407464
LINC02939	3.301927249	2.4894796	0.753947441	-0.407464
USP17L4	3.301927249	2.4894796	0.753947441	-0.407464
PRKCIP1	3.301927249	2.4894796	0.753947441	-0.407464
LINC02918	3.301927249	2.4894796	0.753947441	-0.407464
RN7SL530P	3.301927249	2.4894796	0.753947441	-0.407464
TDGF1	3.301927249	2.4894796	0.753947441	-0.407464
KRTAP5-8	3.301927249	2.4894796	0.753947441	-0.407464
RPL21P80	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
MAST4-IT1	3.301927249	2.4894796	0.753947441	-0.407464
LINC00923	3.301927249	2.4894796	0.753947441	-0.407464
GPAT4-AS1	3.301927249	2.4894796	0.753947441	-0.407464
FER1L6-AS2	3.301927249	2.4894796	0.753947441	-0.407464
STX17-DT	3.301927249	2.4894796	0.753947441	-0.407464
NASPP1	3.301927249	2.4894796	0.753947441	-0.407464
PSMC1P9	3.301927249	2.4894796	0.753947441	-0.407464
LINC00944	3.301927249	2.4894796	0.753947441	-0.407464
RPL41P5	3.301927249	2.4894796	0.753947441	-0.407464
NLRP9P1	3.301927249	2.4894796	0.753947441	-0.407464
C17orf49	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
DUXA	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
SLC30A4-AS	3.301927249	2.4894796	0.753947441	-0.407464
HERC2P10	3.301927249	2.4894796	0.753947441	-0.407464
AP1AR-DT	3.301927249	2.4894796	0.753947441	-0.407464
VPS35P1	3.301927249	2.4894796	0.753947441	-0.407464
ATP5F1AP3	3.301927249	2.4894796	0.753947441	-0.407464
MIR4258	3.301927249	2.4894796	0.753947441	-0.407464
PRR29-AS1	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
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MAP2K4P1	3.301927249	2.4894796	0.753947441	-0.407464
SNORD11B	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
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ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
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ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
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ENSG000002	3.301927249	2.4894796	0.753947441	-0.407464
CREB3L3	2.201284833	1.659653067	0.753947441	-0.407464
GLP2R	2.201284833	1.659653067	0.753947441	-0.407464
ADGRL1	2.201284833	1.659653067	0.753947441	-0.407464
APOH	2.201284833	1.659653067	0.753947441	-0.407464
OR1I1	2.201284833	1.659653067	0.753947441	-0.407464

SEMA3F	808.972176	224.4568918	0.277459347	-1.849652
COL16A1	1065.421859	295.5719466	0.277422454	-1.849844
FKBP14	212.4239863	58.89215477	0.277238723	-1.850799
GBP1	517.3019357	143.3412824	0.277094038	-1.851552
NCKAP5	405.0364092	112.2284459	0.277082364	-1.851613
KIT	594.3469048	164.4535643	0.276696258	-1.853625
TMC8	80.34689639	22.22345463	0.276593815	-1.854159
CHMP3	92.45396297	25.55697282	0.276429176	-1.855018
ENSG000002	92.45396297	25.55697282	0.276429176	-1.855018
CH25H	140.8822293	38.8910456	0.276053593	-1.85698
CAP2	507.3961539	140.0077642	0.27593383	-1.857606
TGFBI	1135.862974	313.3507103	0.275870169	-1.857939
MIR99AHG	402.8351244	111.1172731	0.275838095	-1.858106
SLC26A5	84.74946605	23.33462736	0.275536571	-1.860732
CCRL2	24.21413316	6.667036389	0.275536571	-1.860732
NINJ2	24.21413316	6.667036389	0.275536571	-1.860732
MAILR	24.21413316	6.667036389	0.275536571	-1.860732
MAGOH2P	24.21413316	6.667036389	0.275536571	-1.860732
MIR3609	24.21413316	6.667036389	0.275536571	-1.860732
IL10	12.10706658	3.333518194	0.275536571	-1.860732
DMRTA2	12.10706658	3.333518194	0.275536571	-1.860732
MPV17L	12.10706658	3.333518194	0.275536571	-1.860732
MYL3	12.10706658	3.333518194	0.275536571	-1.860732
BATF2	12.10706658	3.333518194	0.275536571	-1.860732
ARL17A	12.10706658	3.333518194	0.275536571	-1.860732
TCAF1	12.10706658	3.333518194	0.275536571	-1.860732
SSBL4P	12.10706658	3.333518194	0.275536571	-1.860732
LINC00997	12.10706658	3.333518194	0.275536571	-1.860732
ENSG000002	12.10706658	3.333518194	0.275536571	-1.860732
FAM238C	12.10706658	3.333518194	0.275536571	-1.860732
CCDC144BP.	12.10706658	3.333518194	0.275536571	-1.860732
CLDN3	2824.24844	775.5985665	0.274621225	-1.864485
FAM107B	429.2505424	117.7843095	0.274395249	-1.865673
ANGPTL1	101.2591023	27.77931829	0.274338975	-1.865968
TRAF3IP3	89.15203572	24.44580009	0.274203498	-1.866681
RPS4Y1	782.556758	214.4563372	0.274045729	-1.867511
POLR1F	430.3511848	117.7843095	0.273693471	-1.869367
RANBP20P	52.83083598	14.44524551	0.273424511	-1.870786
NFIX	5512.017221	1506.750224	0.273357314	-1.87114
FOXF2	239.9400468	65.55919115	0.273231551	-1.871804
SLC33A1	40.7237694	11.11172731	0.272856061	-1.873788
SHCBP1	40.7237694	11.11172731	0.272856061	-1.873788
ANKRD42-D	40.7237694	11.11172731	0.272856061	-1.873788
ENSG000002	40.7237694	11.11172731	0.272856061	-1.873788
TRANK1	1745.618872	475.5819291	0.272443164	-1.875973
CREB3L2	3218.278425	876.7152851	0.272417476	-1.876109
SLC7A3	57.23340565	15.55641824	0.271806615	-1.879348
NRAV	28.61670282	7.77820912	0.271806615	-1.879348
KIAA1143P1	28.61670282	7.77820912	0.271806615	-1.879348
MIRLET7BH	143.0835141	38.8910456	0.271806615	-1.879348
GPR180	216.826556	58.89215477	0.271609511	-1.880394
ENSG000002	159.5931504	43.33573653	0.271538825	-1.88077
DUOX1	90.25267814	24.44580009	0.270859553	-1.884383
COL4A6	180.5053563	48.89160018	0.270859553	-1.884383
MMP2	2693.271993	728.9293118	0.270648235	-1.885509
EIF1B	365.4132822	98.8943731	0.270637051	-1.885569
HOMER3	123.2719506	33.33518194	0.270419846	-1.886727
GALM	94.6552478	25.55697282	0.270000591	-1.888966
PANK4	94.6552478	25.55697282	0.270000591	-1.888966
RRP15	205.8201318	55.55863657	0.269937815	-1.889301
ITGB7	111.164884	30.00166375	0.269884361	-1.889587
ECM1	255.3490406	68.89270935	0.269798191	-1.890047
NABP2	247.6445437	66.67036389	0.26921798	-1.893153
COLGALT2	99.05781747	26.66814555	0.26921798	-1.893153
CCDC175	33.01927249	8.889381852	0.26921798	-1.893153
FCRL1	16.50963624	4.444690926	0.26921798	-1.893153
CXCR6	16.50963624	4.444690926	0.26921798	-1.893153
CENPBD2P	16.50963624	4.444690926	0.26921798	-1.893153
YEATS2-AS1	16.50963624	4.444690926	0.26921798	-1.893153
TOP2A	594.3469048	160.0088733	0.26921798	-1.893153
ACSM1	322.488228	86.67147305	0.268758564	-1.895617
GPX8	119.9700234	32.22400921	0.268600508	-1.896466
CD27-AS1	86.95075089	23.33462736	0.268366025	-1.897726
ARMCX4	575.6359837	154.4530097	0.268317155	-1.897989
CCNJ	157.3918655	42.22456379	0.268276659	-1.898207
PPARGC1B	227.8329802	61.11450023	0.268242553	-1.89839
SEL1L	8094.124329	2169.009172	0.267973296	-1.899839
ING2	220.1284833	58.89215477	0.267535368	-1.902198
ANLN	128.7751627	34.44635467	0.267492224	-1.902431
UBA6-DT	74.84368431	20.00110917	0.267238436	-1.903801
SRSF1	95.75589022	25.55697282	0.266897136	-1.905644
MKX	478.7794511	127.7848641	0.266897136	-1.905644
FAM216A	58.33404806	15.55641824	0.266678188	-1.906828
LDLRAD4	708.8137161	188.8993643	0.266500718	-1.907789
NT5DC3	1055.516077	281.1267011	0.26634052	-1.908656
DNAJB9	358.8094277	95.5608549	0.266327603	-1.908726
HLA-DQB1	680.1970133	181.1211552	0.266277493	-1.908998
HNMT	463.3704573	123.3401732	0.266180485	-1.909523
FAP	313.6830886	83.33795486	0.265675638	-1.912262
TTC28-AS1	62.73661773	16.66759097	0.265675638	-1.912262
ENSG000002	41.82441182	11.11172731	0.265675638	-1.912262
PNP	20.91220591	5.555863657	0.265675638	-1.912262
ZNF529-AS1	20.91220591	5.555863657	0.265675638	-1.912262
ZBED3-AS1	20.91220591	5.555863657	0.265675638	-1.912262
LINC02175	20.91220591	5.555863657	0.265675638	-1.912262
ACTL10	20.91220591	5.555863657	0.265675638	-1.912262
LMO3	129.8758051	34.44635467	0.265225341	-1.914709
PHRF1	129.8758051	34.44635467	0.265225341	-1.914709
IGFBP7	3586.993635	950.0526854	0.264860432	-1.916696
HDDC3	46.22698148	12.22290005	0.264410516	-1.919149
GADD45A	143.0835141	37.77987287	0.264040711	-1.921168
USP5	1176.694024	1433.412824	0.820903793	-0.284715
ADCK1	101.2388371	123.3401732	0.820809915	-0.28488
RAD52	165.9653067	202.2334371	0.820662048	-0.28514
NPHP1	333.5902664	406.6892197	0.820258444	-0.28585
KIF4B	55.59837774	67.78153662	0.820258444	-0.28585
ZNF585B	1012.388371	1234.512905	0.820071112	-0.286179
TCEANC2	46.47028587	56.6698093	0.820018391	-0.286272
CMKLR1	83.81247987	102.2278913	0.819859226	-0.286552
NFRKB	614.9014612	750.0415937	0.819823149	-0.286615
MTG1	37.342194	45.55808199	0.819661241	-0.2869
NRF1	261.395358	318.9065739	0.819661241	-0.2869
RBM39	3853.714421	4702.482999	0.819506295	-0.287173
ARHGAP20	93.77039827	114.4507913	0.819307557	-0.287523
TMEM245	1800.723577	2197.899663	0.819292895	-0.287549
SMARCA4	3157.489959	3854.658205	0.81913617	-0.287825
ADSS1	141.0705107	172.2317734	0.81907367	-0.287935
BMPR1A	743.5245739	907.8281216	0.819014697	-0.288039
MRFAP1L1	264.7146641	323.3512648	0.818659745	-0.288664
CD320	350.1867971	427.8015016	0.81857309	-0.288817
FBXO46	701.2034207	856.7141759	0.818480002	-0.288981
ERVMER34-	237.3303885	290.0160829	0.818335267	-0.289236
TMEM33	769.2491964	940.0521308	0.818304827	-0.28929
SSNA1	161.816174	197.7887462	0.818126294	-0.289605
SFI1	429.0203178	524.4735292	0.818001851	-0.289824
MRPL9	286.290154	350.0194104	0.817926508	-0.289957
LRRC34	19.08601027	23.33462736	0.817926508	-0.289957
BAK1P1	19.08601027	23.33462736	0.817926508	-0.289957
SPTAN1	5485.153386	6710.372125	0.817414189	-0.290861
CFAP61	173.4337455	212.2339917	0.817181753	-0.291271
PPIL2	356.8254093	436.6908835	0.81711211	-0.291394
RPS11	2714.362591	3322.406467	0.816986909	-0.291615
REEP2	29.04392867	35.55752741	0.816815195	-0.291918
NINJ1	261.395358	320.0177467	0.816815195	-0.291918
TCIRG1	377.5710727	462.2478563	0.816815195	-0.291918
RPS27A	1038.94282	1272.292777	0.816590991	-0.292314
ASB3	496.236267	607.8114841	0.816431213	-0.292597
ZNF236	672.159492	823.378994	0.816342774	-0.292753
ZNF497	39.00184707	47.78042745	0.81627246	-0.292877
UBXN1	438.9782362	537.807602	0.816236577	-0.292941
INPP5J	146.8792964	180.0099825	0.81595084	-0.293446
MTMR4	1545.966832	1895.66068	0.815529302	-0.294191
HLA-DQB1	147.7091229	181.1211552	0.815526617	-0.294196
NAT10	425.7010116	522.2511838	0.815126944	-0.294903
MYPOP	148.5389495	182.232328	0.815107567	-0.294938
TRMO	316.9937357	388.910456	0.815081546	-0.294984
ACLY	4411.357851	5412.522375	0.815028104	-0.295078
EIF4G1	6641.931573	8149.340812	0.81502685	-0.295081
TRAF3IP2	218.2443783	267.7926283	0.814975303	-0.295172
ZNF565	129.4529392	158.8977006	0.814693597	-0.295671
B3GALT1	39.8316736	48.89160018	0.814693597	-0.295671
LINGO3	19.9158368	24.44580009	0.814693597	-0.295671
CDH18	9.9579184	12.22290005	0.814693597	-0.295671
ANGPTL5	9.9579184	12.22290005	0.814693597	-0.295671
UPF3AP1	9.9579184	12.22290005	0.814693597	-0.295671
RNF5P1	9.9579184	12.22290005	0.814693597	-0.295671
IRAK1	996.6216666	1223.401177	0.814631934	-0.29578
FTL	2324.34412	2853.491574	0.81456141	-0.295905
RNF141	190.0302761	233.3462736	0.814370306	-0.296243
HEXB	1071.306055	1315.628514	0.814292213	-0.296381
ZSCAN26	210.7759395	258.9032464	0.81411084	-0.296703
MMP19	80.49317374	98.8943731	0.813930775	-0.297022
MYH10	3794.796737	4662.480781	0.813900778	-0.297075
TRUB2	302.8866847	372.242865	0.813680296	-0.297466
SPRYD4	263.0550111	323.3512648	0.813527082	-0.297738
FECH	496.236267	610.0338296	0.813456964	-0.297862
PSMD13	425.7010116	523.3623565	0.813396314	-0.29797
INO80	892.0635234	1096.727486	0.813386675	-0.297987
LIPT1	81.32300027	100.0055458	0.813184905	-0.298345
HDDC2	142.7301637	175.5652916	0.812974834	-0.298717
NOP14	644.7752164	793.3773302	0.812696799	-0.299211
LITAF	545.1960324	671.1483298	0.812333143	-0.299857
BCKDHB	619.0505939	762.2644938	0.812120463	-0.300234
CLUH	1248.888933	1537.86306	0.812093719	-0.300282
VOPP1	124.47398	153.3418369	0.811741808	-0.300907
NETO1	20.74566333	25.55697282	0.811741808	-0.300907
THOC6	145.2196433	178.8988098	0.811741808	-0.300907
ADH5	467.1923383	575.5874749	0.811679126	-0.301019
PHACTR2	312.8446031	385.5769378	0.811367518	-0.301573
KPNA5	146.0494699	180.0099825	0.811340948	-0.30162
GNS	2027.266221	2500.138646	0.810861519	-0.302473
MDFIC	63.06681654	77.7820912	0.810814103	-0.302557
ASMTL	31.53340827	38.8910456	0.810814103	-0.302557
C5	441.4677158	544.4746384	0.810814103	-0.302557
FRS3	189.2004496	233.3462736	0.810814103	-0.302557
PYGO2	515.3222772	635.5908024	0.810776801	-0.302623
ARFGEF2	1599.905556	1973.442771	0.81071799	-0.302728
ATP5F1B	2642.997509	3260.180794	0.810690473	-0.302777
CAMK2D	558.473257	688.9270935	0.810642029	-0.302863
SEC13	991.6427074	1223.401177	0.810562165	-0.303005
NEK1	680.4577574	840.046585	0.810023836	-0.303964
ATOX1	170.1144393	210.0116462	0.810023836	-0.303964
COX11	319.4832153	394.4663197	0.809912531	-0.304162
BPHL	266.3743172	328.9071285	0.809876996	-0.304225
PAN3	767.5895434	947.8303399	0.809838545	-0.304294
COX6A1P2	160.1565209	197.7887462	0.809735256	-0.304478
TRAPPC13	171.7740924	212.2339917	0.809361832	-0.305143
ZMYM6	302.0568581	373.3540378	0.809036002	-0.305724
GSTM4	75.51421454	93.33850944	0.809036002	-0.305724
FNBP4	53.93872467	66.67036389	0.809036002	-0.305724
AXDND1	32.3632348	40.00221833	0.809036002	-0.305724
ZAN	10.78774493	13.33407278	0.809036002	-0.305724
CYP26A1	2.201284833	1.659653067	0.753947441	-0.407464
GGT1	2.201284833	1.659653067	0.753947441	-0.407464
CYP2D6	2.201284833	1.659653067	0.753947441	-0.407464
AVP	2.201284833	1.659653067	0.753947441	-0.407464
SLC32A1	2.201284833	1.659653067	0.753947441	-0.407464
GOLGA8UP	2.201284833	1.659653067	0.753947441	-0.407464
SULT2A1	2.201284833	1.659653067	0.753947441	-0.407464
ZNRF4	2.201284833	1.659653067	0.753947441	-0.407464
CCL7	2.201284833	1.659653067	0.753947441	-0.407464
CD160	2.201284833	1.659653067	0.753947441	-0.407464
C4BPB	2.201284833	1.659653067	0.753947441	-0.407464
REG4	2.201284833	1.659653067	0.753947441	-0.407464
SAA2	2.201284833	1.659653067	0.753947441	-0.407464
FGFBP2	2.201284833	1.659653067	0.753947441	-0.407464
KRT71	2.201284833	1.659653067	0.753947441	-0.407464
CACNG8	2.201284833	1.659653067	0.753947441	-0.407464
SLC39A1	2.201284833	1.659653067	0.753947441	-0.407464
GAS2	2.201284833	1.659653067	0.753947441	-0.407464
HTR3B	2.201284833	1.659653067	0.753947441	-0.407464
PPIAP26	2.201284833	1.659653067	0.753947441	-0.407464
KCNA6	2.201284833	1.659653067	0.753947441	-0.407464
RIT2	2.201284833	1.659653067	0.753947441	-0.407464
PANX3	2.201284833	1.659653067	0.753947441	-0.407464
RAET1L	2.201284833	1.659653067	0.753947441	-0.407464
PAGE5	2.201284833	1.659653067	0.753947441	-0.407464
GIP	2.201284833	1.659653067	0.753947441	-0.407464
OR2M5	2.201284833	1.659653067	0.753947441	-0.407464
FAM183BP	2.201284833	1.659653067	0.753947441	-0.407464
SERPINB12	2.201284833	1.659653067	0.753947441	-0.407464
LINC00905	2.201284833	1.659653067	0.753947441	-0.407464
C19orf33	2.201284833	1.659653067	0.753947441	-0.407464
TEKT1	2.201284833	1.659653067	0.753947441	-0.407464
MYL1	2.201284833	1.659653067	0.753947441	-0.407464
KCTD19	2.201284833	1.659653067	0.753947441	-0.407464
GOT1L1	2.201284833	1.659653067	0.753947441	-0.407464
RNASE3	2.201284833	1.659653067	0.753947441	-0.407464
KRT78	2.201284833	1.659653067	0.753947441	-0.407464
KRT74	2.201284833	1.659653067	0.753947441	-0.407464
KISS1	2.201284833	1.659653067	0.753947441	-0.407464
MIR31HG	2.201284833	1.659653067	0.753947441	-0.407464
OR52A5	2.201284833	1.659653067	0.753947441	-0.407464
PDZK1	2.201284833	1.659653067	0.753947441	-0.407464
OR4D11	2.201284833	1.659653067	0.753947441	-0.407464
GJA1P1	2.201284833	1.659653067	0.753947441	-0.407464
IRAG1-AS1	2.201284833	1.659653067	0.753947441	-0.407464
GJD4	2.201284833	1.659653067	0.753947441	-0.407464
OR2AP1	2.201284833	1.659653067	0.753947441	-0.407464
WFDC11	2.201284833	1.659653067	0.753947441	-0.407464
LINC00304	2.201284833	1.659653067	0.753947441	-0.407464
MUC16	2.201284833	1.659653067	0.753947441	-0.407464
GBP6	2.201284833	1.659653067	0.753947441	-0.407464
CCR3	2.201284833	1.659653067	0.753947441	-0.407464
RP1L1	2.201284833	1.659653067	0.753947441	-0.407464
HOATZ	2.201284833	1.659653067	0.753947441	-0.407464
C6orf58	2.201284833	1.659653067	0.753947441	-0.407464
B3GALT5-AS	2.201284833	1.659653067	0.753947441	-0.407464
C5orf47	2.201284833	1.659653067	0.753947441	-0.407464
C11orf87	2.201284833	1.659653067	0.753947441	-0.407464
DEFB128	2.201284833	1.659653067	0.753947441	-0.407464
ZNF501	2.201284833	1.659653067	0.753947441	-0.407464
FSD2	2.201284833	1.659653067	0.753947441	-0.407464
C15orf62	2.201284833	1.659653067	0.753947441	-0.407464
SLC24A5	2.201284833	1.659653067	0.753947441	-0.407464
OR51D1	2.201284833	1.659653067	0.753947441	-0.407464
OR5B21	2.201284833	1.659653067	0.753947441	-0.407464
RNU6-942P	2.201284833	1.659653067	0.753947441	-0.407464
Y_RNA.32	2.201284833	1.659653067	0.753947441	-0.407464
Y_RNA.38	2.201284833	1.659653067	0.753947441	-0.407464
SNORD113-3	2.201284833	1.659653067	0.753947441	-0.407464
Y_RNA.63	2.201284833	1.659653067	0.753947441	-0.407464
IQANK1	2.201284833	1.659653067	0.753947441	-0.407464
LINC02408	2.201284833	1.659653067	0.753947441	-0.407464
AWAT1	2.201284833	1.659653067	0.753947441	-0.407464
PCDHA8	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
Y_RNA.67	2.201284833	1.659653067	0.753947441	-0.407464
MIR619	2.201284833	1.659653067	0.753947441	-0.407464
MT-TK	2.201284833	1.659653067	0.753947441	-0.407464
MT-TL2	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
RBM39P1	2.201284833	1.659653067	0.753947441	-0.407464
SEC14L6	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
GAB4	2.201284833	1.659653067	0.753947441	-0.407464
IGSF23	2.201284833	1.659653067	0.753947441	-0.407464
SYCE3	2.201284833	1.659653067	0.753947441	-0.407464
RNA5SP345	2.201284833	1.659653067	0.753947441	-0.407464
RN7SKP30	2.201284833	1.659653067	0.753947441	-0.407464
BCL10-AS1	2.201284833	1.659653067	0.753947441	-0.407464
SUPT20HL1	2.201284833	1.659653067	0.753947441	-0.407464
LAPTM4A-D	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
TCEAL3-AS1	2.201284833	1.659653067	0.753947441	-0.407464
AMMECR1-I	2.201284833	1.659653067	0.753947441	-0.407464
CDHR18P	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
CENPIP1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
PARP4P2	2.201284833	1.659653067	0.753947441	-0.407464
TMEM233	2.201284833	1.659653067	0.753947441	-0.407464
RPL3P7	2.201284833	1.659653067	0.753947441	-0.407464

PROM1	122.1713082	32.22400921	0.263760859	-1.922698
GOLM1	6817.379127	1797.877479	0.263719744	-1.922923
PROCR	50.62955115	13.33407278	0.263365416	-1.924862
TSPAN11	25.31477557	6.667036389	0.263365416	-1.924862
MICOS10	25.31477557	6.667036389	0.263365416	-1.924862
ENSG000001	25.31477557	6.667036389	0.263365416	-1.924862
NOP10	25.31477557	6.667036389	0.263365416	-1.924862
CES1	25.31477557	6.667036389	0.263365416	-1.924862
SNHG5	25.31477557	6.667036389	0.263365416	-1.924862
SHISA9	25.31477557	6.667036389	0.263365416	-1.924862
ZNF271P	25.31477557	6.667036389	0.263365416	-1.924862
SLAMF1	75.94432672	20.00110917	0.263365416	-1.924862
KRBA2	75.94432672	20.00110917	0.263365416	-1.924862
EPB41L3	848.595303	223.345719	0.263194621	-1.925798
CNOT4	2124.239863	558.9198839	0.263115241	-1.926233
SNRPD3	105.661672	27.77931829	0.262908184	-1.927369
APPL1	2888.0857	758.9309756	0.262779936	-1.928073
ZNF514	55.03212081	14.44524551	0.262487531	-1.929679
ME3	398.4325547	104.4502368	0.262152868	-1.93152
TPSD1	29.71734524	7.77820912	0.261739703	-1.933795
POU2AF1	29.71734524	7.77820912	0.261739703	-1.933795
NMRAL1	29.71734524	7.77820912	0.261739703	-1.933795
CDC25A	29.71734524	7.77820912	0.261739703	-1.933795
MYADM	895.9229269	234.4574463	0.261693768	-1.934049
PEX26	123.2719506	32.22400921	0.261405851	-1.935637
TFPI	348.903646	91.11616398	0.261149934	-1.93705
PTMS	890.4197148	232.2351009	0.260815318	-1.938899
GTF2A1	1551.905807	404.4668742	0.260625917	-1.939948
GNG2	68.23982981	17.7787637	0.260533529	-1.940459
EEF1AKMT2	34.11991491	8.889381852	0.260533529	-1.940459
ENSG000002	34.11991491	8.889381852	0.260533529	-1.940459
FHL1	610.856541	158.8977006	0.260122778	-1.942735
MILR1	72.64239948	18.88993643	0.260040095	-1.943194
HR	115.5674537	30.00166375	0.259603052	-1.945621
TSFM	38.52248457	10.00055458	0.259603052	-1.945621
MNS1	119.9700234	31.11283648	0.259338421	-1.947092
USP12	359.9100701	93.33850944	0.259338421	-1.947092
MAP3K20	981.7730353	254.4585555	0.259182669	-1.947959
COA1	167.2976473	43.33573653	0.259033748	-1.948788
PTGER2	167.2976473	43.33573653	0.259033748	-1.948788
PEDS1	128.7751627	33.33518194	0.258863443	-1.949737
ZNF273	94.6552478	24.44580009	0.258261435	-1.953096
NFYB	615.2591107	158.8977006	0.258261435	-1.953096
HDAC8	198.1156349	51.11394565	0.258000564	-1.954554
PIK3R3	99.05781747	25.55697282	0.258000564	-1.954554
GPR141	51.73019357	13.33407278	0.257761896	-1.955889
MPEG1	621.8629652	160.0088733	0.25730568	-1.958445
TIFA	60.5353329	15.55641824	0.256980799	-1.960268
DIABLO	60.5353329	15.55641824	0.256980799	-1.960268
SMOC2	1307.563191	335.5741649	0.256640878	-1.962177
MB21D2	69.34047223	17.7787637	0.256398077	-1.963543
YES1P1	69.34047223	17.7787637	0.256398077	-1.963543
TCIM	156.2912231	40.00221833	0.255946671	-1.966085
COL6A3	11128.59547	2847.935711	0.255911514	-1.966283
RAP1B	1937.130653	495.5830382	0.255833564	-1.966723
ZNF892	82.54818122	21.1122819	0.255757081	-1.967154
TRA2A	2085.717379	533.3629111	0.255721564	-1.967354
SNTB1	617.4603955	157.7865279	0.255541131	-1.968373
RSL24D1	278.4625313	71.11505481	0.255384645	-1.969256
H2BC9	117.7687385	30.00166375	0.254750659	-1.972842
ACADL	497.4903722	126.6736914	0.254625413	-1.973552
JPX	152.9892959	38.8910456	0.254207625	-1.975921
DTNA	336.7965794	85.56030032	0.254041477	-1.976864
CTSC	1398.916511	354.4641013	0.253384743	-1.980598
GBP2	1643.259128	415.5786016	0.252899007	-1.983367
CRIP2	620.7623228	156.6753551	0.252391857	-1.986263
VAMP4	149.6873686	37.77987287	0.252391857	-1.986263
KLHL31	57.23340565	14.44524551	0.252391857	-1.986263
UPP1	48.42826632	12.22290005	0.252391857	-1.986263
EIF4E3	110.0642416	27.77931829	0.252391857	-1.986263
POF1B	105.661672	26.66814555	0.252391857	-1.986263
ENSG000002	52.83083598	13.33407278	0.252391857	-1.986263
FXN	30.81798766	7.77820912	0.252391857	-1.986263
EEF1B2P6	30.81798766	7.77820912	0.252391857	-1.986263
ENSG000002	30.81798766	7.77820912	0.252391857	-1.986263
ATP8B1-AS1	30.81798766	7.77820912	0.252391857	-1.986263
VPS4A	44.02569665	11.11172731	0.252391857	-1.986263
ADAMDEC1	39.62312699	10.00055458	0.252391857	-1.986263
DNAJC8P2	39.62312699	10.00055458	0.252391857	-1.986263
FRG1JP	22.01284833	5.555863657	0.252391857	-1.986263
ENSG000002	22.01284833	5.555863657	0.252391857	-1.986263
MIATNB	22.01284833	5.555863657	0.252391857	-1.986263
RPL17	22.01284833	5.555863657	0.252391857	-1.986263
ENSG000002	22.01284833	5.555863657	0.252391857	-1.986263
ENSG000002	22.01284833	5.555863657	0.252391857	-1.986263
ERVK13-1	193.7130653	48.89160018	0.252391857	-1.986263
C3orf14	140.8822293	35.55752741	0.252391857	-1.986263
TRGV10	140.8822293	35.55752741	0.252391857	-1.986263
TOLLIP	35.22055732	8.889381852	0.252391857	-1.986263
SNHG3	35.22055732	8.889381852	0.252391857	-1.986263
UGT2B4	26.41541799	6.667036389	0.252391857	-1.986263
HSF5	17.61027866	4.444690926	0.252391857	-1.986263
FZD9	17.61027866	4.444690926	0.252391857	-1.986263
STUM	17.61027866	4.444690926	0.252391857	-1.986263
RTCA-AS1	17.61027866	4.444690926	0.252391857	-1.986263
ENSG000002	17.61027866	4.444690926	0.252391857	-1.986263
ENSG000002	17.61027866	4.444690926	0.252391857	-1.986263
LINC01036	17.61027866	4.444690926	0.252391857	-1.986263
ENSG000002	17.61027866	4.444690926	0.252391857	-1.986263
ENSG000002	17.61027866	4.444690926	0.252391857	-1.986263
MTHFS	13.207709	3.333518194	0.252391857	-1.986263
RELL2	10.78774493	13.33407278	0.809036002	-0.305724
RGS9BP	10.78774493	13.33407278	0.809036002	-0.305724
ENSG000002	10.78774493	13.33407278	0.809036002	-0.305724
PGAP6	1145.160616	1415.63406	0.808938304	-0.305898
BRD9	551.8346447	682.2600571	0.808833287	-0.306086
AMOT	524.4503691	648.9248752	0.808183488	-0.307245
ATP11B	3081.975745	3813.544814	0.808165603	-0.307277
LRRC8D	754.3123188	933.3850944	0.808146952	-0.30731
C1orf216	87.96161254	108.8949277	0.80776593	-0.307991
RNF26	187.5407965	232.2351009	0.807547162	-0.308382
ZFP14	343.5481848	425.5791561	0.807248616	-0.308915
TYW1	510.343318	632.2572842	0.807176652	-0.309044
LAMC1	2633.03959	3262.40314	0.807085905	-0.309206
DEDD	366.7833277	454.4696472	0.807057919	-0.309256
SDF2	367.6131543	455.5808199	0.806910955	-0.309519
CEP164	245.6286539	304.4613284	0.806764705	-0.30978
GLYR1	1040.602473	1290.071541	0.80662385	-0.310032
MSRB3	44.8106328	55.55863657	0.806546661	-0.31017
TADA3	683.7770635	847.8247941	0.80650751	-0.31024
FBXO30	1255.527545	1556.752997	0.806504017	-0.310246
SNX27	641.4559103	795.5996757	0.806254615	-0.310693
TMEM138	112.8564085	140.0077642	0.8060725	-0.311018
GNB1	2953.352632	3664.647668	0.805903568	-0.311321
RASAL2	916.9583194	1137.840877	0.805875705	-0.311371
CLIP1	2062.948762	2560.141973	0.805794672	-0.311516
ARMC9	478.8099098	594.4774113	0.805429947	-0.312169
MBD5	536.0679406	665.5924661	0.805399652	-0.312223
NR4A1	273.842756	340.0188558	0.805375206	-0.312267
KLHL8	468.8519914	582.2545113	0.805235481	-0.312517
NR6A1	114.5160616	142.2301096	0.805146406	-0.312677
CHST7	57.2580308	71.11505481	0.805146406	-0.312677
GPATCH1	286.290154	355.5752741	0.805146406	-0.312677
COX18	126.1336331	156.6753551	0.805063649	-0.312825
LURAP1L	137.7512045	171.1206006	0.804994863	-0.312949
BCL9	1911.920333	2375.6873	0.804786191	-0.313323
MAPKAPK3	138.5810311	172.2317734	0.804619429	-0.313622
ERLIN2	590.0066652	733.3740027	0.804509927	-0.313818
SNX9	927.7460643	1153.397295	0.804359494	-0.314088
ACOX1	1160.097494	1442.302205	0.804337322	-0.314127
RIN1	23.23514293	28.89049102	0.804248807	-0.314286
EEF1A1P6	23.23514293	28.89049102	0.804248807	-0.314286
NKAIN1	11.61757147	14.44524551	0.804248807	-0.314286
RHOXF1	11.61757147	14.44524551	0.804248807	-0.314286
ACTA1	11.61757147	14.44524551	0.804248807	-0.314286
IGF2BP1	11.61757147	14.44524551	0.804248807	-0.314286
PITX1-AS1	11.61757147	14.44524551	0.804248807	-0.314286
GEMIN7-AS	11.61757147	14.44524551	0.804248807	-0.314286
ANTKMT	46.47028587	57.78098203	0.804248807	-0.314286
ZNF491	81.32300027	101.1167186	0.804248807	-0.314286
KIF3C	372.5921135	463.359029	0.804111046	-0.314533
DMTF1	769.2491964	956.7197218	0.804048646	-0.314645
DNAH11	315.3340827	392.2439742	0.803923332	-0.31487
EEF2KMT	93.77039827	116.6731368	0.803701699	-0.315268
ARNT	1141.011483	1420.078751	0.803484654	-0.315658
KLHDC2	730.2473494	908.9392943	0.803406073	-0.315799
FBXO31	117.8353677	146.6748005	0.803378408	-0.315848
ZNF229	331.1007868	412.2450834	0.803164914	-0.316232
PHPT1	759.291278	945.6079945	0.802966221	-0.316589
MED29	273.842756	341.1300286	0.802751834	-0.316974
SIRT7	131.1125923	163.3423915	0.802685641	-0.317093
TBC1D16	638.9664307	796.7108484	0.802005435	-0.318316
SF3B5	555.1539508	692.2606117	0.801943577	-0.318427
ZNF579	108.7072759	135.5630732	0.801894449	-0.318516
C1QB	617.3909408	770.0427029	0.801761952	-0.318754
TBC1D20	448.106328	558.9198839	0.801736243	-0.3188
FBRSL1	702.8630738	876.7152851	0.80170049	-0.318865
ZNF550	170.1144393	212.2339917	0.801541911	-0.31915
PREPL	2553.376243	3186.843394	0.801224261	-0.319722
RPL3P4	48.95976547	61.11450023	0.80111537	-0.319918
NMNAT1	146.8792964	183.3435007	0.80111537	-0.319918
IQCK	159.3266944	198.8999189	0.801039514	-0.320055
CD2BP2	477.9800832	596.6997568	0.801039514	-0.320055
ZNF772	392.5079503	490.0271746	0.800992212	-0.32014
ACACB	669.6700124	836.7130668	0.800358019	-0.321283
SASH1	1094.541198	1367.853632	0.80018883	-0.321588
CATSPERD	24.894796	31.11283648	0.800145497	-0.321666
PJVK	24.894796	31.11283648	0.800145497	-0.321666
GUCY2C	12.447398	15.55641824	0.800145497	-0.321666
UPB1	12.447398	15.55641824	0.800145497	-0.321666
NVL	798.2931251	997.8331128	0.800026693	-0.32188
SMG6	2443.839141	3055.725011	0.799757547	-0.322365
UBXN11	338.5692256	423.3568107	0.799725473	-0.322423
GGA2	853.0616763	1066.725822	0.799700971	-0.322467
SH3BP5-AS1	87.96161254	110.0061004	0.799606678	-0.322638
TTC17	1998.222292	2499.027473	0.79959997	-0.32265
GALNT16	390.8482972	488.9160018	0.799418092	-0.322978
OAZ1	1728.528669	2162.342135	0.799377971	-0.32305
ATXN7L3	365.9535012	457.8031654	0.799368656	-0.323067
UBR3	2852.113795	3567.975641	0.799364705	-0.323074
FZD8	50.61941854	63.33684569	0.799209654	-0.323354
FAM149B1	279.6515417	350.0194104	0.798960096	-0.323805
AP4M1	76.34404107	95.5608549	0.798904961	-0.323904
CRELD1	38.17202053	47.78042745	0.798904961	-0.323904
DYNC2H1	2687.808142	3364.631031	0.798841869	-0.324018
DPF2	523.6205426	655.5919115	0.798698906	-0.324276
CACNB4	63.89664307	80.00443666	0.798663746	-0.32434
TRIM5	153.5179087	192.2328825	0.798603791	-0.324448
CRTC2	691.2455023	865.6035578	0.798570542	-0.324508
RIC1	1076.285014	1347.852523	0.79851838	-0.324602
MOCS3	141.9003372	177.787637	0.798145133	-0.325277
NR4A2	116.1757147	145.5636278	0.798109503	-0.325341
NTF4	2.201284833	1.659653067	0.753947441	-0.407464
NPIPB14P	2.201284833	1.659653067	0.753947441	-0.407464
FTH1P20	2.201284833	1.659653067	0.753947441	-0.407464
IGBP1P1	2.201284833	1.659653067	0.753947441	-0.407464
MTATP6P11	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
SNX19P1	2.201284833	1.659653067	0.753947441	-0.407464
COL6A4P2	2.201284833	1.659653067	0.753947441	-0.407464
VN1R4	2.201284833	1.659653067	0.753947441	-0.407464
HNRNPA1P5	2.201284833	1.659653067	0.753947441	-0.407464
RPL21P93	2.201284833	1.659653067	0.753947441	-0.407464
MYOSLID	2.201284833	1.659653067	0.753947441	-0.407464
MAST4-AS1	2.201284833	1.659653067	0.753947441	-0.407464
SEPTIN7P7	2.201284833	1.659653067	0.753947441	-0.407464
PRPS1L1	2.201284833	1.659653067	0.753947441	-0.407464
ARHGAP26-I	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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NEBL-AS1	2.201284833	1.659653067	0.753947441	-0.407464
RPS15AP12	2.201284833	1.659653067	0.753947441	-0.407464
PANK1-AS1	2.201284833	1.659653067	0.753947441	-0.407464
RPL7P14	2.201284833	1.659653067	0.753947441	-0.407464
LINC01722	2.201284833	1.659653067	0.753947441	-0.407464
ANAPC1P1	2.201284833	1.659653067	0.753947441	-0.407464
RPSAP13	2.201284833	1.659653067	0.753947441	-0.407464
TLE1-DT	2.201284833	1.659653067	0.753947441	-0.407464
LEFTY3P	2.201284833	1.659653067	0.753947441	-0.407464
AIMP1P1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
LINC01250	2.201284833	1.659653067	0.753947441	-0.407464
MIR155HG	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
COX7CP2	2.201284833	1.659653067	0.753947441	-0.407464
LINC00494	2.201284833	1.659653067	0.753947441	-0.407464
TRIM67-AS1	2.201284833	1.659653067	0.753947441	-0.407464
MORC2-AS1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
SLC35G4	2.201284833	1.659653067	0.753947441	-0.407464
EIF1AXP1	2.201284833	1.659653067	0.753947441	-0.407464
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ZBTB40-IT1	2.201284833	1.659653067	0.753947441	-0.407464
LINC03011	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
NFIA-AS2	2.201284833	1.659653067	0.753947441	-0.407464
SNORD11	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
RPL17P38	2.201284833	1.659653067	0.753947441	-0.407464
C1QTNF9-AS	2.201284833	1.659653067	0.753947441	-0.407464
RPL21P125	2.201284833	1.659653067	0.753947441	-0.407464
RPL22P2	2.201284833	1.659653067	0.753947441	-0.407464
EEF1A1P25	2.201284833	1.659653067	0.753947441	-0.407464
ARHGDIG	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
RPL37P23	2.201284833	1.659653067	0.753947441	-0.407464
RN7SL735P	2.201284833	1.659653067	0.753947441	-0.407464
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ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
RORA-AS1	2.201284833	1.659653067	0.753947441	-0.407464
LINC02481	2.201284833	1.659653067	0.753947441	-0.407464
FABP6-AS1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
TMEM183AF	2.201284833	1.659653067	0.753947441	-0.407464
MED28-DT	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
GJD2-DT	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ABHD17AP3	2.201284833	1.659653067	0.753947441	-0.407464
MTCO2P30	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
LINC00499	2.201284833	1.659653067	0.753947441	-0.407464
LINC00958	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
IMPA1P1	2.201284833	1.659653067	0.753947441	-0.407464
RGS21	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
SRPK2P	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
SLC2A3P4	2.201284833	1.659653067	0.753947441	-0.407464
PBOV1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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RFPL4AP1	2.201284833	1.659653067	0.753947441	-0.407464
OR4C7P	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
TMEM167AF	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
PGA5	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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PRPF19-DT	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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TCF19	13.207709	3.333518194	0.252391857	-1.986263
AMY1B	13.207709	3.333518194	0.252391857	-1.986263
MAFA	13.207709	3.333518194	0.252391857	-1.986263
PRDX6-AS1	13.207709	3.333518194	0.252391857	-1.986263
ENSG000002	13.207709	3.333518194	0.252391857	-1.986263
TRAV23DV6	13.207709	3.333518194	0.252391857	-1.986263
HMGN2P15	13.207709	3.333518194	0.252391857	-1.986263
KHDC1-AS1	13.207709	3.333518194	0.252391857	-1.986263
RRS1-DT	13.207709	3.333518194	0.252391857	-1.986263
EEF1DP7	13.207709	3.333518194	0.252391857	-1.986263
CCNY-AS1	13.207709	3.333518194	0.252391857	-1.986263
ENSG000002	13.207709	3.333518194	0.252391857	-1.986263
PPP5D1P	13.207709	3.333518194	0.252391857	-1.986263
HTR1B	8.80513933	2.222345463	0.252391857	-1.986263
BDH1	8.80513933	2.222345463	0.252391857	-1.986263
PBK	8.80513933	2.222345463	0.252391857	-1.986263
DYDC1	8.80513933	2.222345463	0.252391857	-1.986263
ACTA2-AS1	8.80513933	2.222345463	0.252391857	-1.986263
SAGE1	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
SELENOH	8.80513933	2.222345463	0.252391857	-1.986263
ZNF321P	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
YWHAZP10	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
LINC01535	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
SATB1-AS1	8.80513933	2.222345463	0.252391857	-1.986263
DPP4-DT	8.80513933	2.222345463	0.252391857	-1.986263
LINC01695	8.80513933	2.222345463	0.252391857	-1.986263
RPL21P123	8.80513933	2.222345463	0.252391857	-1.986263
RPS18P5	8.80513933	2.222345463	0.252391857	-1.986263
OSMR-DT	8.80513933	2.222345463	0.252391857	-1.986263
REELD1	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
VN1R83P	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
BTF3P16	8.80513933	2.222345463	0.252391857	-1.986263
ENSG000002	8.80513933	2.222345463	0.252391857	-1.986263
CLDN18	4.402569665	1.111172731	0.252391857	-1.986263
PRSS33	4.402569665	1.111172731	0.252391857	-1.986263
CASP14	4.402569665	1.111172731	0.252391857	-1.986263
PROC	4.402569665	1.111172731	0.252391857	-1.986263
DLEU2L	4.402569665	1.111172731	0.252391857	-1.986263
DEFB126	4.402569665	1.111172731	0.252391857	-1.986263
C1QL2	4.402569665	1.111172731	0.252391857	-1.986263
VIP	4.402569665	1.111172731	0.252391857	-1.986263
LHFPL4	4.402569665	1.111172731	0.252391857	-1.986263
CALHM4	4.402569665	1.111172731	0.252391857	-1.986263
SCN3B	4.402569665	1.111172731	0.252391857	-1.986263
OR5I1	4.402569665	1.111172731	0.252391857	-1.986263
VXN	4.402569665	1.111172731	0.252391857	-1.986263
VGLL2	4.402569665	1.111172731	0.252391857	-1.986263
HOXB9	4.402569665	1.111172731	0.252391857	-1.986263
OR4S2	4.402569665	1.111172731	0.252391857	-1.986263
C5orf64	4.402569665	1.111172731	0.252391857	-1.986263
TPRX1	4.402569665	1.111172731	0.252391857	-1.986263
RIPPLY3	4.402569665	1.111172731	0.252391857	-1.986263
TUBA8	4.402569665	1.111172731	0.252391857	-1.986263
SLC15A5	4.402569665	1.111172731	0.252391857	-1.986263
TNRC18P3	4.402569665	1.111172731	0.252391857	-1.986263
S100A5	4.402569665	1.111172731	0.252391857	-1.986263
PCDHA7	4.402569665	1.111172731	0.252391857	-1.986263
GAGE1	4.402569665	1.111172731	0.252391857	-1.986263
BHLHA9	4.402569665	1.111172731	0.252391857	-1.986263
IGLV3-12	4.402569665	1.111172731	0.252391857	-1.986263
TRAV39	4.402569665	1.111172731	0.252391857	-1.986263
TRAJ27	4.402569665	1.111172731	0.252391857	-1.986263
ST13P5	4.402569665	1.111172731	0.252391857	-1.986263
SNORA11F	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
RPL21P72	4.402569665	1.111172731	0.252391857	-1.986263
FGGY-DT	4.402569665	1.111172731	0.252391857	-1.986263
TMEM72-AS	4.402569665	1.111172731	0.252391857	-1.986263
DAP3P1	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
SEC63P1	4.402569665	1.111172731	0.252391857	-1.986263
PNRC2P1	4.402569665	1.111172731	0.252391857	-1.986263
TMX4-AS1	4.402569665	1.111172731	0.252391857	-1.986263
TOB1-AS1	4.402569665	1.111172731	0.252391857	-1.986263
ZBTB47-AS1	4.402569665	1.111172731	0.252391857	-1.986263
SMYD3-IT1	4.402569665	1.111172731	0.252391857	-1.986263
OR5H6	4.402569665	1.111172731	0.252391857	-1.986263
ANAPC1P3	4.402569665	1.111172731	0.252391857	-1.986263
GNB1-DT	4.402569665	1.111172731	0.252391857	-1.986263
EEF1B2P1	4.402569665	1.111172731	0.252391857	-1.986263
LINC00278	4.402569665	1.111172731	0.252391857	-1.986263
TMEM139-A	4.402569665	1.111172731	0.252391857	-1.986263
IPO9-AS1	4.402569665	1.111172731	0.252391857	-1.986263
FAAHP1	4.402569665	1.111172731	0.252391857	-1.986263
HMGA1P8	4.402569665	1.111172731	0.252391857	-1.986263
ERI3-IT1	4.402569665	1.111172731	0.252391857	-1.986263
ERICH3-AS1	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
RPL17P36	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
UQCRBP1	4.402569665	1.111172731	0.252391857	-1.986263
RPS3AP29	4.402569665	1.111172731	0.252391857	-1.986263
CDK20	427.3606647	535.5852566	0.797932093	-0.325662
ZNF14	246.4584804	308.9060193	0.79784292	-0.325823
CFAP53	39.00184707	48.89160018	0.797720813	-0.326044
CHCHD5	156.8372148	196.6775735	0.797433139	-0.326565
DHX30	719.4596044	902.2722579	0.797386374	-0.326649
ADCY9	484.6186955	607.8114841	0.797317438	-0.326774
RRP9	105.3879697	132.229555	0.797007671	-0.327334
ASAP2	778.3772883	976.7208309	0.796929136	-0.327477
DUSP22	185.0513169	232.2351009	0.796827509	-0.327661
WASHC1	39.8316736	50.00277291	0.796589295	-0.328092
RSPO4	26.55444907	33.33518194	0.796589295	-0.328092
HLX	13.27722453	16.66759097	0.796589295	-0.328092
MTTP	13.27722453	16.66759097	0.796589295	-0.328092
C2orf72	13.27722453	16.66759097	0.796589295	-0.328092
TMEM273	13.27722453	16.66759097	0.796589295	-0.328092
MAP2K7	399.9763891	502.2500746	0.796368999	-0.328491
PIP4P2	173.4337455	217.7898554	0.79633528	-0.328552
STK11	710.3315126	892.2717033	0.796093286	-0.328991
ZFHX4	738.5456147	927.8292308	0.795993045	-0.329172
HADHB	1667.951332	2095.671771	0.795902944	-0.329336
ETNK2	161.816174	203.3446099	0.795773117	-0.329571
PPARGC1A	81.32300027	102.2278913	0.795506972	-0.330054
NUDT9	243.9690008	306.6836739	0.795506972	-0.330054
THAP4	654.7331348	823.378994	0.795178332	-0.33065
ATM	2550.886764	3207.955676	0.79517519	-0.330655
PLA2G4C	27.3842756	34.44635467	0.794983268	-0.331004
DNAJC13	2040.543446	2566.80901	0.794972839	-0.331023
COL11A1	1589.947638	2000.110917	0.794929734	-0.331101
TMEM248	797.4632986	1003.388976	0.794769842	-0.331391
NCKIPSD	234.8409089	295.5719466	0.794530441	-0.331826
LMAN2L	221.5636844	278.9043556	0.794407402	-0.332049
PGRMC1	332.7604399	418.9121198	0.794344265	-0.332164
ZSCAN5A	196.6688884	247.7915191	0.793686923	-0.333358
CERS4	1293.699566	1630.090397	0.793636701	-0.333449
TSPAN6	436.4887566	550.0305021	0.793571911	-0.333567
ANKRD10	902.8512683	1137.840877	0.793477618	-0.333739
PIGB	112.8564085	142.2301096	0.793477618	-0.333739
PDLIM2	14.10705107	17.7787637	0.793477618	-0.333739
GBP4	42.3211532	53.33629111	0.793477618	-0.333739
EHBP1L1	817.3791354	1031.168295	0.792672874	-0.335202
TOMM40L	100.4090105	126.6736914	0.792658755	-0.335228
PHF23	502.0450527	633.3684569	0.792658755	-0.335228
PHF21B	115.3458881	145.5636278	0.792408721	-0.335683
EIF4A1	72.1949084	91.11616398	0.792339199	-0.33581
ARFIP2	392.5079503	495.5830382	0.792012478	-0.336405
GET3	451.4256342	570.0316112	0.791930878	-0.336554
NFIB	3535.061032	4465.803208	0.791584597	-0.337185
ZNF3	295.4182459	373.3540378	0.791254991	-0.337785
ACTR3B	88.79143907	112.2284459	0.791166966	-0.337946
USP36	1066.327095	1347.852523	0.791130392	-0.338013
MUC20P1	29.8737552	37.77987287	0.79073202	-0.338739
TMEM176A	14.9368776	18.88993643	0.79073202	-0.338739
FCN3	14.9368776	18.88993643	0.79073202	-0.338739
CD300LF	14.9368776	18.88993643	0.79073202	-0.338739
C17orf67	14.9368776	18.88993643	0.79073202	-0.338739
MIR3936HG	14.9368776	18.88993643	0.79073202	-0.338739
SNX1	688.7560227	871.1594214	0.790619955	-0.338944
ACIN1	2631.379937	3329.073503	0.790424103	-0.339301
GOLGA1	541.8767263	685.5935753	0.790376027	-0.339389
GSDMB	210.7759395	266.6814555	0.790365941	-0.339407
ADPRM	210.7759395	266.6814555	0.790365941	-0.339407
PWWP2B	181.7320108	230.0127554	0.79009536	-0.339901
PPP6R1	531.0889814	672.2595025	0.790005912	-0.340065
ABCB9	106.2177963	134.4519005	0.790005912	-0.340065
INSIG2	137.7512045	174.4541188	0.789612796	-0.340783
ZNF587	872.9775131	1105.616868	0.789584112	-0.340835
NFS1	337.7393991	427.8015016	0.78947689	-0.341031
ZNF225	185.8811435	235.5686191	0.789074301	-0.341767
ZNF841	1722.719883	2183.454417	0.788988252	-0.341924
KDM3B	1536.008913	1947.885798	0.788551831	-0.342723
ACP2	517.8117568	656.7030843	0.788502094	-0.342814
GALC	723.6087371	917.8286762	0.788391947	-0.343015
CLK3	361.8043685	458.9143381	0.788391947	-0.343015
ZNF44	377.5710727	478.9154472	0.788387752	-0.343023
PPIAP31	15.76670413	20.00110917	0.788291489	-0.343199
ARHGAP39	914.4688398	1160.064332	0.788291489	-0.343199
EFCAB6	237.3303885	301.1278102	0.788138393	-0.343479
MEN1	729.4175228	925.6068853	0.788042456	-0.343655
ANO10	418.2325728	531.1405656	0.787423518	-0.344788
RFT1	161.816174	205.5669553	0.787170164	-0.345253
DDX31	326.1218276	414.4674288	0.786845491	-0.345848
ADI1	444.7870219	565.5869203	0.78641674	-0.346634
SLC25A45	66.38612267	84.44912759	0.786107856	-0.347201
ARHGAP15	33.19306133	42.22456379	0.786107856	-0.347201
FMNL1-AS1	16.59653067	21.1122819	0.786107856	-0.347201
AGO1	946.8320746	1204.511241	0.786071597	-0.347267
PI4KA	2027.266221	2580.143082	0.785718527	-0.347916
ZNF701	335.2499195	426.6903289	0.785698425	-0.347952
RABGAP1	1784.127047	2271.237063	0.785530967	-0.34826
ZNF202	135.2617249	172.2317734	0.785347107	-0.348598
GCC1	169.2846128	215.5675099	0.785297436	-0.348689
DDX60L	255.5865723	325.5736103	0.785034672	-0.349172
PCYT2	187.5407965	238.9021373	0.785010962	-0.349215
FUZ	102.8984901	131.1183823	0.78477547	-0.349648
TNNC1	120.3248473	153.3418369	0.784683748	-0.349817
NUCB2	1705.293526	2173.453863	0.784600748	-0.349969
PWWP3A	586.6873591	747.8192483	0.784530968	-0.350098
FUT11	520.3012364	663.3701207	0.784330226	-0.350467
GIT1	902.8512683	1151.17495	0.784286757	-0.350547
RASSF7	17.4263572	22.22345463	0.784142587	-0.350812
BCORL1	1384.150658	1765.65347	0.783931095	-0.351201
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
BLZF2P	2.201284833	1.659653067	0.753947441	-0.407464
BCL2L2-PAB	2.201284833	1.659653067	0.753947441	-0.407464
MIDEAS-AS	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
COSMOC	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
VPS39-DT	2.201284833	1.659653067	0.753947441	-0.407464
DHX35-DT	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
FSCN1P1	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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SPDYE22P	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
MRPL37P1	2.201284833	1.659653067	0.753947441	-0.407464
LIMASI	2.201284833	1.659653067	0.753947441	-0.407464
LINC01905	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ZSCAN5A-A	2.201284833	1.659653067	0.753947441	-0.407464
CYP4F24P	2.201284833	1.659653067	0.753947441	-0.407464
RPL7L1P5	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
SPIB	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
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RIMBP3B	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002

ST13P7	4.402569665	1.111172731	0.252391857	-1.986263
DGUOK-AS1	4.402569665	1.111172731	0.252391857	-1.986263
WWTR1-IT1	4.402569665	1.111172731	0.252391857	-1.986263
PRKCH-AS1	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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LINC02762	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
AFG3L2P1	4.402569665	1.111172731	0.252391857	-1.986263
ZFHX4-AS1	4.402569665	1.111172731	0.252391857	-1.986263
HOXA-AS3	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
CHKB-CPT1I	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
SLC22A31	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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COQ7-DT	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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HNRNPA1P1	4.402569665	1.111172731	0.252391857	-1.986263
LINC01979	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
AK4P1	4.402569665	1.111172731	0.252391857	-1.986263
MIR4802	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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NFE2L3P1	4.402569665	1.111172731	0.252391857	-1.986263
TAF9P3	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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CCAT2	4.402569665	1.111172731	0.252391857	-1.986263
SNHG4	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
PCBP2-OT1	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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CCDC15-DT	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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HSD17B7P2	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
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ANKRD36BP	4.402569665	1.111172731	0.252391857	-1.986263
ENSG000002	4.402569665	1.111172731	0.252391857	-1.986263
DSTN	4684.334124	1180.065441	0.251917436	-1.988977
TNC	5445.978676	1370.075978	0.251575715	-1.990935
H1-0	3038.873711	764.4868392	0.251569138	-1.990973
ZC3H8	335.695937	84.44912759	0.251564342	-1.991001
UQCRB	2853.965785	716.7064118	0.251126491	-1.993514
HTRA3	115.5674537	28.89049102	0.249988125	-2.000069
CNNM1	222.3297681	55.55863657	0.249892927	-2.000618
IRAK3	435.8543969	108.8949277	0.249842444	-2.00091
HACD4	97.95717505	24.44580009	0.249555993	-2.002565
FGF2	191.5117804	47.78042745	0.249490801	-2.002941
PLEKHF1	84.74946605	21.1122819	0.24911404	-2.005122
TUBE1	388.526773	96.67202764	0.248816901	-2.006844
TBPL1	442.4582514	110.0061004	0.248624814	-2.007958
FOLH1	1873.293393	465.5813745	0.248536282	-2.008472
ELL2	1668.573903	414.4674288	0.248396207	-2.009285
SFXN3	138.6809445	34.44635467	0.248385637	-2.009346
SYTL1	296.07281	73.33740027	0.247700558	-2.013331
RPL22L1	471.0749542	116.6731368	0.247674252	-2.013484
SLC26A4	233.3361923	57.78098203	0.247629746	-2.013743
APOBR	58.33404806	14.44524551	0.247629746	-2.013743
ANKRD50	12081.7518	2991.276993	0.247586363	-2.013996
SGIP1	606.4539714	150.0083187	0.247353181	-2.015356
MANF	597.648832	147.7859733	0.247278946	-2.015789
ESF1	1559.610304	385.5769378	0.247226462	-2.016095
CRYBG1	4914.368389	1213.400623	0.246908764	-2.01795
THUMPD3-A	99.05781747	24.44580009	0.246783149	-2.018684
ENSG000002	49.52890873	12.22290005	0.246783149	-2.018684
ISG20	90.25267814	22.22345463	0.246235958	-2.021887
FPR3	261.9528951	64.44801842	0.246029037	-2.0231
TUSC1	105.3879697	134.4519005	0.783833991	-0.35138
ZFPM1	160.1565209	204.4557826	0.783330845	-0.352306
CDK6	71.36508187	91.11616398	0.783231852	-0.352489
ARHGAP25	35.68254093	45.55808199	0.783231852	-0.352489
RNF144A	411.5939605	525.584702	0.783116326	-0.352701
MAPK4	126.9634596	162.2312188	0.782608061	-0.353638
CSRP2	508.683665	650.0360479	0.782546855	-0.353751
PCDHGB5	492.9169608	630.0349387	0.782364486	-0.354087
YJEFN3	54.7685512	70.00388208	0.782364486	-0.354087
SHF	36.51236747	46.66925472	0.782364486	-0.354087
MLKL	36.51236747	46.66925472	0.782364486	-0.354087
TIMP2	987.4935747	1262.292223	0.782301877	-0.354203
ELAC2	969.237391	1238.957596	0.782300697	-0.354205
AGBL5	677.9682778	867.8259033	0.781226137	-0.356188
SENP3	131.9424188	168.8982552	0.781194682	-0.356246
ZNF383	207.4566333	265.5702828	0.781174125	-0.356284
CCDC85C	359.3148889	460.0255108	0.781076007	-0.356465
CTDSPL	246.4584804	315.5730557	0.780987083	-0.356629
ZFYVE1	322.8025215	413.3562561	0.780930533	-0.356734
HEPACAM2	133.6020719	171.1206006	0.78074803	-0.357071
ACO1	989.9830543	1268.959259	0.780153537	-0.35817
STX10	273.842756	351.1305831	0.779888649	-0.35866
PFAS	492.0871343	631.1461115	0.77967229	-0.35906
PEMT	258.0760519	331.129474	0.779381095	-0.359599
CLPP	199.158368	255.5697282	0.779272136	-0.359801
MTLN	19.9158368	25.55697282	0.779272136	-0.359801
TMEM132E	19.9158368	25.55697282	0.779272136	-0.359801
SLC7A7	80.49317374	103.339064	0.778923	-0.360447
GPRIN3	203.3075007	261.1255919	0.778581292	-0.36108
MARCHF9	61.40716347	78.89326393	0.778357497	-0.361495
YIPF6	471.341471	605.5891386	0.778318898	-0.361567
SEPTIN8	287.9498071	370.0205196	0.778199564	-0.361788
BTBD8	620.710247	797.8220212	0.778005909	-0.362147
ESYT1	682.947237	877.8264578	0.77799801	-0.362162
RGS4	20.74566333	26.66814555	0.777919233	-0.362308
CD72	20.74566333	26.66814555	0.777919233	-0.362308
A1BG-AS1	20.74566333	26.66814555	0.777919233	-0.362308
DAGLA	208.2864599	267.7926283	0.777790118	-0.362547
RNF25	187.5407965	241.1244827	0.777775838	-0.362574
FTSJ1	209.9461129	270.0149737	0.777535075	-0.36302
VWA8	693.7349819	892.2717033	0.777492976	-0.363098
ACTR8	295.4182459	380.0210742	0.777373325	-0.36332
DHX38	507.8538384	653.3695661	0.777284197	-0.363486
PMF1	42.3211532	54.44746384	0.777284197	-0.363486
GOLM1	1397.427882	1797.877479	0.777265358	-0.363521
SSH1	702.8630738	904.4946034	0.777078239	-0.363868
PLCE1	664.6910532	855.6030032	0.776868537	-0.364258
KCTD21-AS	21.57548987	27.77931829	0.776674562	-0.364618
CFAP418-AS	21.57548987	27.77931829	0.776674562	-0.364618
MCTP1	389.1886441	501.1389019	0.776608327	-0.364741
RNF10	1542.647526	1986.776844	0.776457371	-0.365021
EPG5	1282.081994	1651.202679	0.776453436	-0.365029
MTO1	283.8006744	365.5758286	0.776311376	-0.365293
MAPKAP1	1248.059106	1607.866942	0.776220391	-0.365462
ADRM1	619.0505939	797.8220212	0.775925679	-0.36601
SLC7A8	246.4584804	317.7954012	0.775525635	-0.366754
ZBTB44	721.949084	931.1627489	0.77531998	-0.367136
PNRC1	835.6353191	1077.837549	0.775288743	-0.367194
ITGA3	1155.948361	1491.193806	0.775183183	-0.367391
DEGS2	68.04577574	87.78264578	0.775162051	-0.36743
RBM43	68.04577574	87.78264578	0.775162051	-0.36743
FBXL14	273.0129295	352.2417559	0.775072588	-0.367597
RAB18	731.9070024	944.4968217	0.77491738	-0.367886
AHDC1	966.7479114	1247.846977	0.774732743	-0.368229
BBS5	23.23514293	30.00166375	0.774461814	-0.368734
STK25	916.1284928	1183.398959	0.774150159	-0.369315
CRBN	635.6471246	821.1566485	0.774087533	-0.369431
GATAD2A	872.1476866	1126.72915	0.774052652	-0.369496
NAA10	119.4950208	154.4530097	0.773665862	-0.370217
ANKRD6	144.3898168	186.6770189	0.77347398	-0.370575
PLAUR	72.1949084	93.33850944	0.77347398	-0.370575
NDUFB4	770.079023	995.6107674	0.77347398	-0.370575
POLR2J4	24.06496947	31.11283648	0.77347398	-0.370575
NKD1	219.0742048	283.3490465	0.773160198	-0.371161
TULP4	3177.405796	4111.339106	0.772839631	-0.371759
ELL2	320.3130419	414.4674288	0.772830432	-0.371776
SH3BP4	1313.615402	1700.094279	0.772672091	-0.372072
CYBB	297.9077255	385.5769378	0.772628485	-0.372153
ACTN2	24.894796	32.22400921	0.772554273	-0.372292
WSCD1	24.894796	32.22400921	0.772554273	-0.372292
SNX18	225.7128171	292.2384284	0.772358441	-0.372658
POLR2E	602.4540632	780.0432575	0.772334172	-0.372703
ZNF213	126.9634596	164.4535643	0.772032277	-0.373267
SPI1	152.6880821	197.7887462	0.77197558	-0.373373
C11orf54	76.34404107	98.8943731	0.77197558	-0.373373
CFL2	254.7567457	330.0183012	0.771947328	-0.373426
ZNF133	433.1694504	561.1422294	0.771942349	-0.373435
ALX4	153.5179087	198.8999189	0.771834948	-0.373636
IFT43	256.4163988	332.2406467	0.771779135	-0.37374
SLC35B4	102.8984901	133.3407278	0.771695879	-0.373896
CHRNE	25.72462253	33.33518194	0.771695879	-0.373896
EXOC3L2	25.72462253	33.33518194	0.771695879	-0.373896
FZD2	206.6268068	267.7926283	0.771592587	-0.374089
ZNF337	1063.007789	1377.854187	0.771495126	-0.374271
POR	605.7733694	785.5991211	0.77109731	-0.375015
BLVRA	159.3266944	206.678128	0.770892866	-0.375398
KLHDC7A	26.55444907	34.44635467	0.770892866	-0.375398
PMVK	213.2654191	276.6820101	0.770796117	-0.375579
TMEM216	81.32300027	105.5614095	0.770385699	-0.376347
RNF112	27.3842756	35.55752741	0.770140041	-0.376807
RGS14	82.1528268	106.6725822	0.770140041	-0.376807
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
FGD5P1.1	2.201284833	1.659653067	0.753947441	-0.407464
PI4KAP1	2.201284833	1.659653067	0.753947441	-0.407464
DSTNP2	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
ENSG000002	2.201284833	1.659653067	0.753947441	-0.407464
RHOXF1P1	2.201284833	1.659653067	0.753947441	-0.407464
CCL26	1.100642416	0.829826533	0.753947441	-0.407464
ARSF	1.100642416	0.829826533	0.753947441	-0.407464
PAGE1	1.100642416	0.829826533	0.753947441	-0.407464
CPSF1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000000	1.100642416	0.829826533	0.753947441	-0.407464
MAGEB2	1.100642416	0.829826533	0.753947441	-0.407464
NKAIN4	1.100642416	0.829826533	0.753947441	-0.407464
SEL1L2	1.100642416	0.829826533	0.753947441	-0.407464
ENTREP2	1.100642416	0.829826533	0.753947441	-0.407464
CACNG7	1.100642416	0.829826533	0.753947441	-0.407464
TFPT	1.100642416	0.829826533	0.753947441	-0.407464
PAX4	1.100642416	0.829826533	0.753947441	-0.407464
DUSP16	1.100642416	0.829826533	0.753947441	-0.407464
AICDA	1.100642416	0.829826533	0.753947441	-0.407464
SPACA1	1.100642416	0.829826533	0.753947441	-0.407464
INSL4	1.100642416	0.829826533	0.753947441	-0.407464
PRB2	1.100642416	0.829826533	0.753947441	-0.407464
SERPINA7	1.100642416	0.829826533	0.753947441	-0.407464
CST11	1.100642416	0.829826533	0.753947441	-0.407464
PLAAT1	1.100642416	0.829826533	0.753947441	-0.407464
ANGPTL8	1.100642416	0.829826533	0.753947441	-0.407464
CDX4	1.100642416	0.829826533	0.753947441	-0.407464
EIF5A	1.100642416	0.829826533	0.753947441	-0.407464
BCAN	1.100642416	0.829826533	0.753947441	-0.407464
ACY3	1.100642416	0.829826533	0.753947441	-0.407464
CFHR4	1.100642416	0.829826533	0.753947441	-0.407464
RAX	1.100642416	0.829826533	0.753947441	-0.407464
TAAR5	1.100642416	0.829826533	0.753947441	-0.407464
CFC1	1.100642416	0.829826533	0.753947441	-0.407464
PDX1	1.100642416	0.829826533	0.753947441	-0.407464
ADAD2	1.100642416	0.829826533	0.753947441	-0.407464
CELA3A	1.100642416	0.829826533	0.753947441	-0.407464
LCN9	1.100642416	0.829826533	0.753947441	-0.407464
HYOU1	1.100642416	0.829826533	0.753947441	-0.407464
B3GALNT2	1.100642416	0.829826533	0.753947441	-0.407464
COQ8A	1.100642416	0.829826533	0.753947441	-0.407464
TMEM174	1.100642416	0.829826533	0.753947441	-0.407464
FAM86FP	1.100642416	0.829826533	0.753947441	-0.407464
GBX1	1.100642416	0.829826533	0.753947441	-0.407464
AGBL2	1.100642416	0.829826533	0.753947441	-0.407464
POTED	1.100642416	0.829826533	0.753947441	-0.407464
CPLX4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000001	1.100642416	0.829826533	0.753947441	-0.407464
SLC43A2	1.100642416	0.829826533	0.753947441	-0.407464
MOBP	1.100642416	0.829826533	0.753947441	-0.407464
RAB24	1.100642416	0.829826533	0.753947441	-0.407464
PYDC1	1.100642416	0.829826533	0.753947441	-0.407464
HSPB2	1.100642416	0.829826533	0.753947441	-0.407464
TPD52L3	1.100642416	0.829826533	0.753947441	-0.407464
OR10A4	1.100642416	0.829826533	0.753947441	-0.407464
TRH	1.100642416	0.829826533	0.753947441	-0.407464
OBP2B	1.100642416	0.829826533	0.753947441	-0.407464
XAGE5	1.100642416	0.829826533	0.753947441	-0.407464
PCDHB1	1.100642416	0.829826533	0.753947441	-0.407464
CST9	1.100642416	0.829826533	0.753947441	-0.407464
FKBP2	1.100642416	0.829826533	0.753947441	-0.407464
OR52W1	1.100642416	0.829826533	0.753947441	-0.407464
CBLL2	1.100642416	0.829826533	0.753947441	-0.407464
OR14C36	1.100642416	0.829826533	0.753947441	-0.407464
ODF3	1.100642416	0.829826533	0.753947441	-0.407464
DYNAP	1.100642416	0.829826533	0.753947441	-0.407464
ZFP42	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000001	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000001	1.100642416	0.829826533	0.753947441	-0.407464
ARL14	1.100642416	0.829826533	0.753947441	-0.407464
TMEM277P	1.100642416	0.829826533	0.753947441	-0.407464
DEFB124	1.100642416	0.829826533	0.753947441	-0.407464
CYP8B1	1.100642416	0.829826533	0.753947441	-0.407464
FDX1P1	1.100642416	0.829826533	0.753947441	-0.407464
ARL6IP4	1.100642416	0.829826533	0.753947441	-0.407464
PDSS1P1	1.100642416	0.829826533	0.753947441	-0.407464
GSTA5	1.100642416	0.829826533	0.753947441	-0.407464
PMCH	1.100642416	0.829826533	0.753947441	-0.407464
OR4F6	1.100642416	0.829826533	0.753947441	-0.407464
KRTAP6-1	1.100642416	0.829826533	0.753947441	-0.407464
DMRTC1B	1.100642416	0.829826533	0.753947441	-0.407464
DGAT1	1.100642416	0.829826533	0.753947441	-0.407464
PRSS57	1.100642416	0.829826533	0.753947441	-0.407464
CLDN24	1.100642416	0.829826533	0.753947441	-0.407464
GOLGA8R	1.100642416	0.829826533	0.753947441	-0.407464
DEFB132	1.100642416	0.829826533	0.753947441	-0.407464
KRTAP19-2	1.100642416	0.829826533	0.753947441	-0.407464
KRTAP23-1	1.100642416	0.829826533	0.753947441	-0.407464
SSX7	1.100642416	0.829826533	0.753947441	-0.407464
GOLGA6EP	1.100642416	0.829826533	0.753947441	-0.407464
HELT	1.100642416	0.829826533	0.753947441	-0.407464
NUTM2G	1.100642416	0.829826533	0.753947441	-0.407464
PDCD1	1.100642416	0.829826533	0.753947441	-0.407464

KCNA3	85.85010847	21.1122819	0.24592027	-2.023737
SYT10	40.7237694	10.00055458	0.245570455	-2.025791
EFCC1	40.7237694	10.00055458	0.245570455	-2.025791
ENSG000002	40.7237694	10.00055458	0.245570455	-2.025791
FMN1	1707.096388	418.9121198	0.245394532	-2.026825
DCAF11	117.7687385	28.89049102	0.245315449	-2.02729
PTER	226.7323378	55.55863657	0.245040637	-2.028907
HYCC1	604.2526865	147.7859733	0.244576444	-2.031643
ARF3	127.6745203	31.11283648	0.243688689	-2.036889
TAOK3	3290.920825	801.1555394	0.243444185	-2.038337
CTSB	768.2484066	186.6770189	0.242990441	-2.041029
NOM1	320.2869431	77.7820912	0.242851271	-2.041855
TM4SF1	521.7045053	126.6736914	0.242807356	-2.042116
KMT2E	13675.48202	3319.072949	0.242702447	-2.042739
MRPL32	357.7087853	86.67147305	0.242296182	-2.045156
ADTRP	27.51606041	6.667036389	0.242296182	-2.045156
H4C9	27.51606041	6.667036389	0.242296182	-2.045156
DLGAP5	78.14561156	18.88993643	0.241727412	-2.048547
CREB3L1	2418.111389	584.4768567	0.241707996	-2.048663
HPSE2	101.2591023	24.44580009	0.241418298	-2.050393
PTMA	978.4711081	235.5686191	0.240751737	-2.054382
CMTM1	46.22698148	11.11172731	0.240373197	-2.056652
RAB13	23.11349074	5.555863657	0.240373197	-2.056652
OR4M1	23.11349074	5.555863657	0.240373197	-2.056652
CDCA2	23.11349074	5.555863657	0.240373197	-2.056652
MMP16	111.164884	26.66814555	0.23989721	-2.059512
NLRC3	88.0513933	21.1122819	0.239772264	-2.060263
KCTD9	186.0085684	44.44690926	0.23895087	-2.065214
DNAJC8	144.1841565	34.44635467	0.238905269	-2.065489
CGNL1	2202.385475	525.584702	0.238643375	-2.067072
LINC01145	60.5353329	14.44524551	0.238625028	-2.067183
FAM13C	642.7751711	153.3418369	0.238562166	-2.067563
LCP2	773.7516187	184.4546734	0.238390032	-2.068604
ENSG000002	79.24625397	18.88993643	0.238370087	-2.068725
PTAFR	149.6873686	35.55752741	0.237545277	-2.073726
CTDP1	37.42184215	8.889381852	0.237545277	-2.073726
TRAJ40	18.71092108	4.444690926	0.237545277	-2.073726
CRPPA	93.55460539	22.22345463	0.237545277	-2.073726
MFSD14CP	107.8629568	25.55697282	0.236939294	-2.077411
COQ10A	89.15203572	21.1122819	0.236812112	-2.078185
PABIR3	89.15203572	21.1122819	0.236812112	-2.078185
PLEKHS1	605.3533329	143.3412824	0.236789451	-2.078323
IRAK1BP1	155.1905807	36.66870014	0.236281738	-2.08142
PDE3A	686.8008678	162.2312188	0.236212891	-2.08184
STOX2	136.4796596	32.22400921	0.236108511	-2.082478
MPPED2	348.903646	82.22678213	0.235671891	-2.085148
ETV1	514.0000084	121.1178277	0.235637793	-2.085357
PPP2R2B	66.03854498	15.55641824	0.235565733	-2.085798
SOX2	33.01927249	7.77820912	0.235565733	-2.085798
PTGES3P1	33.01927249	7.77820912	0.235565733	-2.085798
LOXL1-AS1	33.01927249	7.77820912	0.235565733	-2.085798
KCNK5	165.0963624	38.8910456	0.235565733	-2.085798
H2AC16	165.0963624	38.8910456	0.235565733	-2.085798
NDUFV2	193.7130653	45.55808199	0.235183321	-2.088142
MORF4L1P1	369.8158519	86.67147305	0.234363867	-2.093178
PTPRB	1129.259119	264.4591101	0.234188155	-2.09426
ENSG000002	118.869381	27.77931829	0.233696163	-2.097294
PPP1R16B	100.1584599	23.33462736	0.232977098	-2.10174
HSCB	85.85010847	20.00110917	0.232977098	-2.10174
BMI1	42.92505424	10.00055458	0.232977098	-2.10174
CXCL11	42.92505424	10.00055458	0.232977098	-2.10174
CD6	114.4668113	26.66814555	0.232977098	-2.10174
TMEM273	71.54175706	16.66759097	0.232977098	-2.10174
LAX1	28.61670282	6.667036389	0.232977098	-2.10174
PRR34-AS1	28.61670282	6.667036389	0.232977098	-2.10174
APBA2	14.30835141	3.333518194	0.232977098	-2.10174
TEKT2	14.30835141	3.333518194	0.232977098	-2.10174
RNU4-1	14.30835141	3.333518194	0.232977098	-2.10174
HSPD1P1	14.30835141	3.333518194	0.232977098	-2.10174
SDAD1P1	14.30835141	3.333518194	0.232977098	-2.10174
PKP4P1	14.30835141	3.333518194	0.232977098	-2.10174
DLX6-AS1	14.30835141	3.333518194	0.232977098	-2.10174
BCKDHA	14.30835141	3.333518194	0.232977098	-2.10174
PTPN23-DT	14.30835141	3.333518194	0.232977098	-2.10174
ENSG000002	14.30835141	3.333518194	0.232977098	-2.10174
ENSG000002	14.30835141	3.333518194	0.232977098	-2.10174
FRG1GP	14.30835141	3.333518194	0.232977098	-2.10174
ENSG000002	14.30835141	3.333518194	0.232977098	-2.10174
CTNND1	128.7751627	30.00166375	0.232977098	-2.10174
EFS	238.8394043	55.55863657	0.232619223	-2.103958
PTPRZ1	138.6809445	32.22400921	0.232360757	-2.105562
PPM1E	124.372593	28.89049102	0.23228985	-2.106002
CENPE	220.1284833	51.11394565	0.232200508	-2.106557
FAM111B	81.44753881	18.88993643	0.231927652	-2.108253
CCDC144CP	105.661672	24.44580009	0.231359202	-2.111794
SALL4	355.5075005	82.22678213	0.231294085	-2.1122
EEF1AKMT3	91.35332055	21.1122819	0.231105796	-2.113375
C8orf34-AS1	91.35332055	21.1122819	0.231105796	-2.113375
CALU	1952.539647	451.136129	0.231050944	-2.113717
LRIG1	2031.7859	468.9148927	0.23078952	-2.11535
AGBL3	115.5674537	26.66814555	0.230758269	-2.115546
RAB40A	38.52248457	8.889381852	0.230758269	-2.115546
MKI67	1654.265552	381.1322469	0.230393631	-2.117827
CWC27	594.3469048	136.674246	0.229957025	-2.120564
MPHOSPH10	541.5160688	124.4513459	0.229820227	-2.121422
RPL26	121.0706658	27.77931829	0.229447142	-2.123766
SEPTIN3	96.85653263	22.22345463	0.229447142	-2.123766
C2orf72	72.64239948	16.66759097	0.229447142	-2.123766
SNHG8	72.64239948	16.66759097	0.229447142	-2.123766
GCOM1	24.21413316	5.555863657	0.229447142	-2.123766
SLC35F4	24.21413316	5.555863657	0.229447142	-2.123766
WHAMM	84.6423064	110.0061004	0.769432841	-0.378133
THAP6	170.1144393	221.1233736	0.769319121	-0.378346
ERF	313.6744296	407.8003924	0.769186189	-0.378595
SMARCD2	629.0085123	817.8231303	0.769125363	-0.378709
SERINC3	1352.617249	1758.986434	0.768975373	-0.378991
BBX	1586.628332	2063.447762	0.768921007	-0.379093
NRDE2	722.7789106	940.0521308	0.768871094	-0.379186
LDLRAD4	145.2196433	188.8993643	0.768767242	-0.379381
NFAT5	1488.708801	1936.774071	0.768653827	-0.379594
SIK3	732.736829	953.3862036	0.768562442	-0.379766
EEF1A1	10490.66703	13651.86818	0.768441864	-0.379992
TRMT10B	118.6651943	154.4530097	0.768293182	-0.380271
VCL	1853.002649	2412.356	0.768129849	-0.380578
NBPF11	421.551879	548.9193293	0.767966906	-0.380884
KLF16	182.5618373	237.7909645	0.76774085	-0.381309
PCNX2	1618.16174	2107.894672	0.767667266	-0.381447
HSPG2	4725.862108	6157.008105	0.767558208	-0.381652
GABARAPL	494.5766139	644.4801842	0.767403911	-0.381942
TMEM74B	62.23699	81.11560939	0.767262805	-0.382207
RMND5B	314.5042561	410.0227379	0.767041013	-0.382624
CTDNEP1	190.0302761	247.7915191	0.766895803	-0.382898
METRN	96.25987787	125.5625187	0.766629078	-0.383399
TM4SF1	97.0897044	126.6736914	0.76645516	-0.383727
SEC23A	925.2565847	1207.844759	0.766039326	-0.38451
CD200	33.19306133	43.33573653	0.765951245	-0.384676
FKBP15	965.0882583	1260.069877	0.765900587	-0.384771
DGLUCY	166.7951332	217.7898554	0.765853547	-0.38486
CREBBP	8925.614193	11657.31313	0.765666505	-0.385212
PAQR6	68.04577574	88.89381852	0.765472525	-0.385577
SNU13	516.9819303	675.5930207	0.765226867	-0.386041
MYO1C	1510.284291	1974.553944	0.764873654	-0.386707
OGDH	1100.349983	1438.968687	0.764679588	-0.387073
PLB1	71.36508187	93.33850944	0.764583475	-0.387254
FCMR	35.68254093	46.66925472	0.764583475	-0.387254
ENSG000002	36.51236747	47.78042745	0.764169963	-0.388035
AEBP1	736.8859616	964.4979309	0.764009894	-0.388337
PDCD11	592.4961448	775.5985665	0.763921145	-0.388504
ZNF529	336.9095725	441.1355744	0.763732494	-0.388861
SEC24D	712.8209922	933.3850944	0.763694424	-0.388933
ABHD17B	301.2270316	394.4663197	0.763631815	-0.389051
C7orf31	113.6862351	148.897146	0.763521922	-0.389259
FBF1	38.17202053	50.00277291	0.763398074	-0.389493
ENSG000002	38.17202053	50.00277291	0.763398074	-0.389493
TRAK2	1035.623514	1356.741905	0.763316523	-0.389647
ZSWIM6	1425.641984	1867.881362	0.763240115	-0.389791
SLC35B1	385.869338	505.5835928	0.763215705	-0.389837
RBFOX2	154.3477352	202.2334371	0.763215705	-0.389837
EPM2A	116.1757147	152.2306642	0.763155802	-0.38995
PTPRE	116.1757147	152.2306642	0.763155802	-0.38995
FRMD8	234.0110824	306.6836739	0.7630373	-0.390175
NAGPA	118.6651943	155.5641824	0.762805374	-0.390613
DDI2	436.4887566	572.2539567	0.762753584	-0.390711
IGFBP2	2340.940651	3071.28143	0.762203238	-0.391752
RPL29	887.9143907	1165.620195	0.761752751	-0.392605
POMT2	465.5326852	611.1450023	0.761738513	-0.392632
DAPK3	341.8885317	448.9137835	0.761590631	-0.392912
DIXDC1	215.7548987	283.3490465	0.761445649	-0.393187
CCDC103	43.98080627	57.78098203	0.761164049	-0.393721
PTPN21	447.2765015	587.8103749	0.760919712	-0.394184
NDUFC2	136.0915515	178.8988098	0.760718037	-0.394566
TFCP2	638.9664307	840.046585	0.760632139	-0.394729
RNASE1	877.1266458	1153.397295	0.760472258	-0.395032
RNF220	507.8538384	667.8148116	0.760471061	-0.395035
FKBP11	46.47028587	61.11450023	0.76038069	-0.395206
SHLD1	46.47028587	61.11450023	0.76038069	-0.395206
B4GALT7	282.1410213	371.1316923	0.760218077	-0.395515
EIF3I	1009.898891	1328.962587	0.759915216	-0.39609
SEC24A	433.1694504	570.0316112	0.759904261	-0.39611
KIAA1328	144.3898168	190.0105371	0.759904261	-0.39611
PRSS8	48.12993894	63.33684569	0.759904261	-0.39611
RNF41	338.5692256	445.5802653	0.759838916	-0.396234
FOXL2	48.95976547	64.44801842	0.759678368	-0.396539
SELENOP	1471.282444	1936.774071	0.759656207	-0.396581
NMT2	441.4677158	581.1433385	0.759653749	-0.396586
CDKL5	506.1941854	666.7036389	0.759249171	-0.397355
C8orf82	253.9269192	334.4629922	0.75920782	-0.397433
ZFHX3	4941.617006	6510.361033	0.759038858	-0.397754
RPL18	1091.221891	1437.857514	0.758922133	-0.397976
DBN1	1222.334484	1612.311633	0.758125451	-0.399491
ORMDL3	555.9837774	733.3740027	0.758117652	-0.399506
TBRG4	226.5426436	298.9054648	0.757907333	-0.399907
UNC119	341.0587052	450.0249562	0.757866204	-0.399985
PYCR2	121.9845004	161.1200461	0.757103187	-0.401438
CENPB	673.8191451	890.0493579	0.757058178	-0.401524
FAH	125.3038065	165.564737	0.756826658	-0.401965
ETV5	128.6231127	170.0094279	0.756564587	-0.402465
ZFTA	64.7264696	85.56030032	0.756501197	-0.402586
NAA38	654.7331348	865.6035578	0.756389145	-0.402799
CCDC30	68.04577574	90.00499125	0.756022247	-0.403499
RRAS2	277.1620621	366.6870014	0.755854615	-0.403819
TCEAL4	492.9169608	652.2583934	0.755708115	-0.404099
PPP1R3D	72.1949084	95.5608549	0.755486213	-0.404523
CCDC86	145.2196433	192.2328825	0.755436018	-0.404619
CBLB	1112.797381	1473.415042	0.755250455	-0.404973
SERPINF1	448.9361546	594.4774113	0.755177818	-0.405112
TBC1D8	1720.230404	2279.015272	0.754813022	-0.405809
GDPD1	78.83352067	104.4502368	0.754747171	-0.405935
SYNJ1	916.9583194	1215.622968	0.754311446	-0.406768
NF2	504.5345323	668.9259843	0.754245678	-0.406894
MEIS3	85.47213294	113.3396186	0.754124056	-0.407126
DGKZ	801.6124312	1063.392304	0.753825684	-0.407697
CLEC20A	1.100642416	0.829826533	0.753947441	-0.407464
CYP51A1-AS	1.100642416	0.829826533	0.753947441	-0.407464
PLET1	1.100642416	0.829826533	0.753947441	-0.407464
OR8A1	1.100642416	0.829826533	0.753947441	-0.407464
OR4Q2	1.100642416	0.829826533	0.753947441	-0.407464
OR9K1P	1.100642416	0.829826533	0.753947441	-0.407464
UGT2B15	1.100642416	0.829826533	0.753947441	-0.407464
OR14A16	1.100642416	0.829826533	0.753947441	-0.407464
OR8B8	1.100642416	0.829826533	0.753947441	-0.407464
OR4C4P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000001	1.100642416	0.829826533	0.753947441	-0.407464
ATP11AUN	1.100642416	0.829826533	0.753947441	-0.407464
DDX39B	1.100642416	0.829826533	0.753947441	-0.407464
LTN1	1.100642416	0.829826533	0.753947441	-0.407464
MIR30E	1.100642416	0.829826533	0.753947441	-0.407464
RN7SKP25	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.11	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.13	1.100642416	0.829826533	0.753947441	-0.407464
RNY1P16	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.17	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.25	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-501P	1.100642416	0.829826533	0.753947441	-0.407464
RNA5SP368	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.37	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-60P	1.100642416	0.829826533	0.753947441	-0.407464
RNA5SP189	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.49	1.100642416	0.829826533	0.753947441	-0.407464
RNA5SP355	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-1051P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FAM32BP	1.100642416	0.829826533	0.753947441	-0.407464
TMEM244	1.100642416	0.829826533	0.753947441	-0.407464
HSD3BP2	1.100642416	0.829826533	0.753947441	-0.407464
TRPC5OS	1.100642416	0.829826533	0.753947441	-0.407464
TCEA3	1.100642416	0.829826533	0.753947441	-0.407464
CASP12	1.100642416	0.829826533	0.753947441	-0.407464
POU5F1	1.100642416	0.829826533	0.753947441	-0.407464
PRR20B	1.100642416	0.829826533	0.753947441	-0.407464
PCDHA9	1.100642416	0.829826533	0.753947441	-0.407464
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LINC02898	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MAPRE3-AS	1.100642416	0.829826533	0.753947441	-0.407464
SERF1B	1.100642416	0.829826533	0.753947441	-0.407464
LINC01597	1.100642416	0.829826533	0.753947441	-0.407464
SMIM21	1.100642416	0.829826533	0.753947441	-0.407464
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RNU6-1316P	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-72P	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.80	1.100642416	0.829826533	0.753947441	-0.407464
RNU1-67P	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-540P	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.99	1.100642416	0.829826533	0.753947441	-0.407464
MIR647	1.100642416	0.829826533	0.753947441	-0.407464
MIR328	1.100642416	0.829826533	0.753947441	-0.407464
MIR643	1.100642416	0.829826533	0.753947441	-0.407464
TRAV10	1.100642416	0.829826533	0.753947441	-0.407464
TRAV9-2	1.100642416	0.829826533	0.753947441	-0.407464
IGHV1-2	1.100642416	0.829826533	0.753947441	-0.407464
TAS2R15P	1.100642416	0.829826533	0.753947441	-0.407464
SNORD72	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-1275P	1.100642416	0.829826533	0.753947441	-0.407464
RNA5SP354	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL31P11	1.100642416	0.829826533	0.753947441	-0.407464
CRIP1	1.100642416	0.829826533	0.753947441	-0.407464
NIP7P2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FTH1P12	1.100642416	0.829826533	0.753947441	-0.407464
RPLP1P6	1.100642416	0.829826533	0.753947441	-0.407464
SETP8	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RSU1P3	1.100642416	0.829826533	0.753947441	-0.407464
PGGT1BP1	1.100642416	0.829826533	0.753947441	-0.407464
SETP22	1.100642416	0.829826533	0.753947441	-0.407464
KPNA4P1	1.100642416	0.829826533	0.753947441	-0.407464
KRT18P17	1.100642416	0.829826533	0.753947441	-0.407464
MANEALP1	1.100642416	0.829826533	0.753947441	-0.407464
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PAFAH1B2P	1.100642416	0.829826533	0.753947441	-0.407464
EEF1A1P12	1.100642416	0.829826533	0.753947441	-0.407464
CTAGE11P	1.100642416	0.829826533	0.753947441	-0.407464
PDCL3P3	1.100642416	0.829826533	0.753947441	-0.407464
RPL6P12	1.100642416	0.829826533	0.753947441	-0.407464
LINC01913	1.100642416	0.829826533	0.753947441	-0.407464
HMGB1P4	1.100642416	0.829826533	0.753947441	-0.407464
PNMA6E	1.100642416	0.829826533	0.753947441	-0.407464
DNAJA1P3	1.100642416	0.829826533	0.753947441	-0.407464
SYT14P1	1.100642416	0.829826533	0.753947441	-0.407464
NLRP2B	1.100642416	0.829826533	0.753947441	-0.407464
GRXCR1	1.100642416	0.829826533	0.753947441	-0.407464
CYP51A1P3	1.100642416	0.829826533	0.753947441	-0.407464
ZNF705G	1.100642416	0.829826533	0.753947441	-0.407464
DEFB115	1.100642416	0.829826533	0.753947441	-0.407464
C20orf202	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL21P68	1.100642416	0.829826533	0.753947441	-0.407464
FGF7P4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PRELID1P1	1.100642416	0.829826533	0.753947441	-0.407464

BATF	24.21413316	5.555863657	0.229447142	-2.123766
APELA	24.21413316	5.555863657	0.229447142	-2.123766
ENSG000002	24.21413316	5.555863657	0.229447142	-2.123766
CRISP3	1963.546071	450.0249562	0.229189915	-2.125385
BVES	106.7623144	24.44580009	0.228974055	-2.126744
GSTM2	331.2933673	75.55974574	0.228075033	-2.13242
BRCA2	204.7194894	46.66925472	0.227966838	-2.133104
SERPINE2	282.865101	64.44801842	0.22784012	-2.133906
PCDH17	112.2655265	25.55697282	0.227647557	-2.135126
OLFML1	112.2655265	25.55697282	0.227647557	-2.135126
FBLN5	1241.524646	282.2378738	0.227331672	-2.137129
TLR3	298.2740948	67.78153662	0.227245804	-2.137674
PTPN7	44.02569665	10.00055458	0.227152671	-2.138266
SELP	132.07709	30.00166375	0.227152671	-2.138266
JPH2	186.0085684	42.22456379	0.227003327	-2.139215
LMTK3	269.657392	61.11450023	0.226637585	-2.141541
TMEM243	53.9314784	12.22290005	0.226637585	-2.141541
OBI1	544.8179961	123.3401732	0.226387847	-2.143132
HMGN1	319.1863007	72.22622754	0.226282354	-2.143804
KRT13	63.83726015	14.44524551	0.226282354	-2.143804
H1-6	83.64882364	18.88993643	0.225824293	-2.146727
SVIP	103.4603871	23.33462736	0.225541659	-2.148534
EDN1	162.8950776	36.66870014	0.22510625	-2.151322
HOXC5	29.71734524	6.667036389	0.224348317	-2.156188
ZFP41	29.71734524	6.667036389	0.224348317	-2.156188
APEX1	69.34047223	15.55641824	0.224348317	-2.156188
PDXDC1	198.1156349	44.44690926	0.224348317	-2.156188
RNF165	39.62312699	8.889381852	0.224348317	-2.156188
CHEK1	39.62312699	8.889381852	0.224348317	-2.156188
EIF3J-DT	19.81156349	4.444690926	0.224348317	-2.156188
HSBP1	19.81156349	4.444690926	0.224348317	-2.156188
GTF3C2-AS2	19.81156349	4.444690926	0.224348317	-2.156188
BRD3OS	19.81156349	4.444690926	0.224348317	-2.156188
ENSG000002	19.81156349	4.444690926	0.224348317	-2.156188
PRRT1B	19.81156349	4.444690926	0.224348317	-2.156188
NAALAD2	9.905781747	2.222345463	0.224348317	-2.156188
PRSS53	9.905781747	2.222345463	0.224348317	-2.156188
GRAP	9.905781747	2.222345463	0.224348317	-2.156188
HPD	9.905781747	2.222345463	0.224348317	-2.156188
TRIM17	9.905781747	2.222345463	0.224348317	-2.156188
YPEL4	9.905781747	2.222345463	0.224348317	-2.156188
ENSG000001	9.905781747	2.222345463	0.224348317	-2.156188
SGCZ	9.905781747	2.222345463	0.224348317	-2.156188
CPT1B	9.905781747	2.222345463	0.224348317	-2.156188
ZRANB2-DT	9.905781747	2.222345463	0.224348317	-2.156188
TSPY26P	9.905781747	2.222345463	0.224348317	-2.156188
DICER1-AS1	9.905781747	2.222345463	0.224348317	-2.156188
TRHDE-AS1	9.905781747	2.222345463	0.224348317	-2.156188
RPL21P60	9.905781747	2.222345463	0.224348317	-2.156188
TTC4	9.905781747	2.222345463	0.224348317	-2.156188
MIR4458HG	9.905781747	2.222345463	0.224348317	-2.156188
LINC01301	9.905781747	2.222345463	0.224348317	-2.156188
ENSG000002	9.905781747	2.222345463	0.224348317	-2.156188
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ENSG000002	9.905781747	2.222345463	0.224348317	-2.156188
ENSG000002	9.905781747	2.222345463	0.224348317	-2.156188
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GLIDR	9.905781747	2.222345463	0.224348317	-2.156188
ENSG000002	9.905781747	2.222345463	0.224348317	-2.156188
FCMR	208.0214167	46.66925472	0.224348317	-2.156188
VCAM1	466.6723845	104.4502368	0.223819194	-2.159594
COL4A2	3712.46687	830.0460304	0.223583418	-2.161115
LCP1	2137.447572	477.8042745	0.223539646	-2.161397
DBI	785.8586852	175.5652916	0.223405677	-2.162262
SAMSN1	209.1220591	46.66925472	0.223167536	-2.163801
FABP3	293.8715252	65.55919115	0.223087933	-2.164316
KIAA1210	244.3426164	54.44746384	0.22283245	-2.165969
RACGAP1	159.5931504	35.55752741	0.222801087	-2.166172
NCAPH	74.84368431	16.66759097	0.222698697	-2.166835
CYTH3	1001.584599	222.2345463	0.221882951	-2.172129
ITGB6	145.284799	32.22400921	0.221798904	-2.172676
ARHGAP15	190.411138	42.22456379	0.221754695	-2.172963
ZNF37BP	135.3790172	30.00166375	0.221612362	-2.17389
MYBPC1	782.556758	173.3429461	0.221508465	-2.174566
SSBP1	186.0085684	41.11339106	0.221029555	-2.177689
DNAJC19	186.0085684	41.11339106	0.221029555	-2.177689
SAMD9	849.6959454	187.7881916	0.221006341	-2.17784
PGF	35.22055732	7.77820912	0.220842874	-2.178908
RAP1BL	35.22055732	7.77820912	0.220842874	-2.178908
CRYBB2P1	35.22055732	7.77820912	0.220842874	-2.178908
SPON1	498.5910146	110.0061004	0.220633941	-2.180273
DTX2P1	60.5353329	13.33407278	0.220269257	-2.18266
C1D	232.2355498	51.11394565	0.220095268	-2.1838
ACACA	489.7858753	107.7837549	0.220063012	-2.184011
C1orf21	844.1927333	185.5658462	0.21981455	-2.185641
SP140L	298.2740948	65.55919115	0.219795122	-2.185769
DTHD1	75.94432672	16.66759097	0.21947118	-2.187897
ZNF844	25.31477557	5.555863657	0.21947118	-2.187897
CRYZL2P	25.31477557	5.555863657	0.21947118	-2.187897
ENSG000002	25.31477557	5.555863657	0.21947118	-2.187897
KCNJ2	116.6680961	25.55697282	0.219057083	-2.190621
HMGB1P5	416.0428334	91.11616398	0.21900669	-2.190953
ARMC3	91.35332055	20.00110917	0.218942333	-2.191377
SCLT1	289.4689555	63.33684569	0.218803587	-2.192292
PGR	345.6017187	75.55974574	0.218632436	-2.193421
NES	869.5075089	190.0105371	0.21852662	-2.194119
TNS2-AS1	147.4860838	32.22400921	0.218488473	-2.194371
ITGAX	310.3811614	67.78153662	0.218381606	-2.195077
DCAF7	162.8950776	35.55752741	0.218284849	-2.195716
VARS1	40.7237694	8.889381852	0.218284849	-2.195716
SI	185.8811435	246.6803464	0.753530414	-0.408262
CHIC1	94.6002248	125.5625187	0.753411335	-0.40849
FAM200A	97.91953094	130.0072096	0.753185391	-0.408923
INTU	393.3377768	522.2511838	0.753158229	-0.408975
NDFIP2	200.8180211	266.6814555	0.753025818	-0.409229
SLC25A30	102.8984901	136.674246	0.752874028	-0.40952
ACYP2	105.3879697	140.0077642	0.752729467	-0.409797
CLDN12	422.3817055	561.1422294	0.752717731	-0.409819
C9orf152	109.5371024	145.5636278	0.752503246	-0.41023
ADISSP	118.6651943	157.7865279	0.752061636	-0.411077
ZBTB49	119.4950208	158.8977006	0.752024858	-0.411148
SPRY4	123.6441535	164.4535643	0.751848426	-0.411486
BMAL1	249.7777865	332.2406467	0.751797798	-0.411583
INPPL1	2005.690731	2667.925728	0.751779073	-0.411619
ABRAXAS1	137.7512045	183.3435007	0.751328539	-0.412484
UBQLN2	702.0332472	934.4962671	0.751242431	-0.41265
C2orf42	141.9003372	188.8993643	0.751195419	-0.41274
C5orf15	515.3222772	686.704748	0.750427718	-0.414215
LMLN	206.6268068	275.5708374	0.749813764	-0.415396
ILK	434.8291035	580.0321658	0.749663776	-0.415684
C1orf109	222.3935109	296.6831193	0.749599477	-0.415808
MAGI1	673.8191451	898.9387397	0.749571818	-0.415861
GLO1	3168.277704	4234.67928	0.748174182	-0.418554
FBH1	1291.210086	1726.762425	0.747763599	-0.419346
RC3H1	1496.17724	2001.222089	0.747631783	-0.4196
UBR1	972.5566971	1301.183269	0.747440211	-0.41997
ADAM28	72.1949084	96.67202764	0.746802464	-0.421201
FAM219B	72.1949084	96.67202764	0.746802464	-0.421201
ECM1	51.44924507	68.89270935	0.746802464	-0.421201
TMEM241	50.61941854	67.78153662	0.746802464	-0.421201
ABCC3	37.342194	50.00277291	0.746802464	-0.421201
CASS4	23.23514293	31.11283648	0.746802464	-0.421201
PNPLA1	11.61757147	15.55641824	0.746802464	-0.421201
ZNF560	11.61757147	15.55641824	0.746802464	-0.421201
XPOTP1	11.61757147	15.55641824	0.746802464	-0.421201
ENSG000002	11.61757147	15.55641824	0.746802464	-0.421201
RRP7A	170.9442659	228.9015827	0.746802464	-0.421201
SOX8	44.8106328	60.0033275	0.746802464	-0.421201
SLCO4C1	44.8106328	60.0033275	0.746802464	-0.421201
CARNS1	36.51236747	48.89160018	0.746802464	-0.421201
KIF9-AS1	19.08601027	25.55697282	0.746802464	-0.421201
H4C6	19.08601027	25.55697282	0.746802464	-0.421201
ENSG000002	39.00184707	52.22511838	0.746802464	-0.421201
GCNT2	12.447398	16.66759097	0.746802464	-0.421201
LINC02913	12.447398	16.66759097	0.746802464	-0.421201
FSCB	12.447398	16.66759097	0.746802464	-0.421201
BRF2	188.3706231	252.23621	0.746802464	-0.421201
USF1	217.4145517	291.1272556	0.746802464	-0.421201
DVL2	637.3067776	853.3806577	0.746802464	-0.421201
PELO	150.1986025	201.1222644	0.746802464	-0.421201
UBQLN4P1	67.2159492	90.00499125	0.746802464	-0.421201
B3GNT4	19.9158368	26.66814555	0.746802464	-0.421201
FHIT	19.9158368	26.66814555	0.746802464	-0.421201
KCNE2	9.9579184	13.33407278	0.746802464	-0.421201
ZNF807P	9.9579184	13.33407278	0.746802464	-0.421201
SGSM3	5.808785734	7.77820912	0.746802464	-0.421201
PYCR3	5.808785734	7.77820912	0.746802464	-0.421201
PRKAG3	5.808785734	7.77820912	0.746802464	-0.421201
ARHGAP40	5.808785734	7.77820912	0.746802464	-0.421201
DHH	5.808785734	7.77820912	0.746802464	-0.421201
CFAP107	5.808785734	7.77820912	0.746802464	-0.421201
CNBD1	5.808785734	7.77820912	0.746802464	-0.421201
GP5	5.808785734	7.77820912	0.746802464	-0.421201
F2	5.808785734	7.77820912	0.746802464	-0.421201
PARLP2	5.808785734	7.77820912	0.746802464	-0.421201
RAD21L1	5.808785734	7.77820912	0.746802464	-0.421201
DNAH17-AS	5.808785734	7.77820912	0.746802464	-0.421201
PCCA-DT	5.808785734	7.77820912	0.746802464	-0.421201
ENSG000002	5.808785734	7.77820912	0.746802464	-0.421201
SLA2	4.9789592	6.667036389	0.746802464	-0.421201
PNMT	4.9789592	6.667036389	0.746802464	-0.421201
C20orf144	4.9789592	6.667036389	0.746802464	-0.421201
GLIPR1L1	4.9789592	6.667036389	0.746802464	-0.421201
C2orf88	4.9789592	6.667036389	0.746802464	-0.421201
MMP1	4.9789592	6.667036389	0.746802464	-0.421201
FAM221B	4.9789592	6.667036389	0.746802464	-0.421201
IGLV2-14	4.9789592	6.667036389	0.746802464	-0.421201
CALM2P3	4.9789592	6.667036389	0.746802464	-0.421201
CBX1P1	4.9789592	6.667036389	0.746802464	-0.421201
CEACAMP5	4.9789592	6.667036389	0.746802464	-0.421201
ENSG000002	4.9789592	6.667036389	0.746802464	-0.421201
EIF2AK1P1	4.9789592	6.667036389	0.746802464	-0.421201
OR7E100P	4.9789592	6.667036389	0.746802464	-0.421201
ENSG000002	4.9789592	6.667036389	0.746802464	-0.421201
NHLRC4	4.9789592	6.667036389	0.746802464	-0.421201
ENSG000002	4.9789592	6.667036389	0.746802464	-0.421201
HSP90B2P	4.9789592	6.667036389	0.746802464	-0.421201
ENSG000002	4.9789592	6.667036389	0.746802464	-0.421201
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C3orf36	4.9789592	6.667036389	0.746802464	-0.421201
STMN4	2.4894796	3.333518194	0.746802464	-0.421201
OTC	2.4894796	3.333518194	0.746802464	-0.421201
GFUS	2.4894796	3.333518194	0.746802464	-0.421201
VTN	2.4894796	3.333518194	0.746802464	-0.421201
ELMOD1	2.4894796	3.333518194	0.746802464	-0.421201
PHF24	2.4894796	3.333518194	0.746802464	-0.421201
ANKRD60	2.4894796	3.333518194	0.746802464	-0.421201
C20orf85	2.4894796	3.333518194	0.746802464	-0.421201
GNG13	2.4894796	3.333518194	0.746802464	-0.421201
ZSCAN10	2.4894796	3.333518194	0.746802464	-0.421201
IQCB2P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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TPT1P8	1.100642416	0.829826533	0.753947441	-0.407464
PTPN11P3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SNORD111B	1.100642416	0.829826533	0.753947441	-0.407464
RNU6ATAC1	1.100642416	0.829826533	0.753947441	-0.407464
MIR1278	1.100642416	0.829826533	0.753947441	-0.407464
KRTAP10-9	1.100642416	0.829826533	0.753947441	-0.407464
FXYD7	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RNA5SP129	1.100642416	0.829826533	0.753947441	-0.407464
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Y_RNA.104	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-920P	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-564P	1.100642416	0.829826533	0.753947441	-0.407464
LINC02068	1.100642416	0.829826533	0.753947441	-0.407464
RPS26P15	1.100642416	0.829826533	0.753947441	-0.407464
RPL18AP14	1.100642416	0.829826533	0.753947441	-0.407464
PRR15-DT	1.100642416	0.829826533	0.753947441	-0.407464
ZNF587P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HMGN1P4	1.100642416	0.829826533	0.753947441	-0.407464
VEZTP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SOX1-OT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01142	1.100642416	0.829826533	0.753947441	-0.407464
RPL21P21	1.100642416	0.829826533	0.753947441	-0.407464
LINC02052	1.100642416	0.829826533	0.753947441	-0.407464
POLR2KP2	1.100642416	0.829826533	0.753947441	-0.407464
TNK2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PDSS1P2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MTND6P7	1.100642416	0.829826533	0.753947441	-0.407464
OR4F2P	1.100642416	0.829826533	0.753947441	-0.407464
RPS27AP6	1.100642416	0.829826533	0.753947441	-0.407464
LMX1B-DT	1.100642416	0.829826533	0.753947441	-0.407464
VPS26BP1	1.100642416	0.829826533	0.753947441	-0.407464
LINC01752	1.100642416	0.829826533	0.753947441	-0.407464
LINC01645	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPS12P26	1.100642416	0.829826533	0.753947441	-0.407464
LINC00092	1.100642416	0.829826533	0.753947441	-0.407464
SMARCE1P1	1.100642416	0.829826533	0.753947441	-0.407464
LINC01770	1.100642416	0.829826533	0.753947441	-0.407464
LINC01427	1.100642416	0.829826533	0.753947441	-0.407464
LHFPL3-AS2	1.100642416	0.829826533	0.753947441	-0.407464
RPL23AP18	1.100642416	0.829826533	0.753947441	-0.407464
FAM236D	1.100642416	0.829826533	0.753947441	-0.407464
FDPSP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PCDH8P1	1.100642416	0.829826533	0.753947441	-0.407464
RPL29P20	1.100642416	0.829826533	0.753947441	-0.407464
SP3P	1.100642416	0.829826533	0.753947441	-0.407464
LINC01393	1.100642416	0.829826533	0.753947441	-0.407464
EDNRB-AS1	1.100642416	0.829826533	0.753947441	-0.407464
MYT1L-AS1	1.100642416	0.829826533	0.753947441	-0.407464
PACRG-AS3	1.100642416	0.829826533	0.753947441	-0.407464
DNAJC19P5	1.100642416	0.829826533	0.753947441	-0.407464
UBXN7-AS1	1.100642416	0.829826533	0.753947441	-0.407464
SATB2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
NRIR	1.100642416	0.829826533	0.753947441	-0.407464
MICALL2-DT	1.100642416	0.829826533	0.753947441	-0.407464
HMGB1P26	1.100642416	0.829826533	0.753947441	-0.407464
RPL23AP34	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
NOTCH2P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TRAF6P1	1.100642416	0.829826533	0.753947441	-0.407464
GAPDHP54	1.100642416	0.829826533	0.753947441	-0.407464
ZNF277-AS1	1.100642416	0.829826533	0.753947441	-0.407464
THORLNC	1.100642416	0.829826533	0.753947441	-0.407464
CEP164P1	1.100642416	0.829826533	0.753947441	-0.407464
PPIAP60	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FOCAD-AS1	1.100642416	0.829826533	0.753947441	-0.407464
CDRT15P2	1.100642416	0.829826533	0.753947441	-0.407464
THRAP3P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
STK4-DT	1.100642416	0.829826533	0.753947441	-0.407464
NCAM1-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LINC01483	1.100642416	0.829826533	0.753947441	-0.407464
ALG1L8P	1.100642416	0.829826533	0.753947441	-0.407464
SNRNP40P1	1.100642416	0.829826533	0.753947441	-0.407464
SNAP25-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
EPHA2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
THAP12P3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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HSBP1L1	40.7237694	8.889381852	0.218284849	-2.195716
ANKHD1-EIF	40.7237694	8.889381852	0.218284849	-2.195716
GAS2L3	249.8458285	54.44746384	0.217924246	-2.198101
GREB1L	362.111355	78.89326393	0.217870174	-2.198459
BHLHE41	336.7965794	73.33740027	0.217749837	-2.199256
LUC7L2	510.6980812	111.1172731	0.217579187	-2.200388
USP9Y	3780.7067	822.2678213	0.217490508	-2.200976
OSR2	624.06425	135.5630732	0.217226148	-2.20273
FTX	757.2419824	164.4535643	0.217174388	-2.203074
KLK11	220.1284833	47.78042745	0.217056997	-2.203854
SHB	133.1777324	28.89049102	0.216931844	-2.204686
CAB39	1786.342642	386.6881105	0.216469171	-2.207767
BCL2L15	15.40899383	3.333518194	0.216335877	-2.208655
SNX25P1	15.40899383	3.333518194	0.216335877	-2.208655
TMED2-DT	15.40899383	3.333518194	0.216335877	-2.208655
DDX24	267.4561072	57.78098203	0.21603912	-2.210636
MAML2	2456.633873	530.0293929	0.215754329	-2.212539
H2AC11	195.9143501	42.22456379	0.21552563	-2.214069
CMPK1	3148.937953	677.8153662	0.215252055	-2.215901
PRADC1	67.13918739	14.44524551	0.215153714	-2.21656
CCPG1	51.73019357	11.11172731	0.21480158	-2.218923
TBX2	294.9721676	63.33684569	0.21472143	-2.219462
CD84	331.2933673	71.11505481	0.214658855	-2.219882
TPM2	1796.248423	385.5769378	0.2146568	-2.219896
ENSG000002	139.7815869	30.00166375	0.214632445	-2.22006
DNAJB5	300.4753796	64.44801842	0.214486852	-2.221039
PARP2	124.372593	26.66814555	0.2144214	-2.221479
OPTN	519.5032205	111.1172731	0.213891404	-2.22505
ACTR3C	187.1092108	40.00221833	0.213790749	-2.225729
BST2	280.6638162	60.0033275	0.213790749	-2.225729
SORBS2	2652.548223	566.698093	0.213642899	-2.226727
WWC1	2205.687402	471.1372381	0.213601092	-2.227009
EPHA6	1422.030002	303.3501557	0.21332191	-2.228896
TMEM161B-I	125.4732355	26.66814555	0.212540511	-2.23419
SRMS	62.73661773	13.33407278	0.212540511	-2.23419
HMMR	41.82441182	8.889381852	0.212540511	-2.23419
PSPN	20.91220591	4.444690926	0.212540511	-2.23419
TMEM151A	20.91220591	4.444690926	0.212540511	-2.23419
TRGV3	20.91220591	4.444690926	0.212540511	-2.23419
RRAD	104.5610295	22.22345463	0.212540511	-2.23419
ZNF486	104.5610295	22.22345463	0.212540511	-2.23419
LCA5L	130.9764475	27.77931829	0.212093997	-2.237224
HDAC9	529.4090022	112.2284459	0.211988171	-2.237944
PCOTH	68.23982981	14.44524551	0.211683493	-2.240019
KIAA1586	342.2997915	72.22622754	0.211002838	-2.244666
TBX4	179.4047139	37.77987287	0.210584617	-2.247528
SLC34A2	52.83083598	11.11172731	0.210326547	-2.249297
CCDC74A	52.83083598	11.11172731	0.210326547	-2.249297
ROR1	396.2312699	83.33795486	0.210326547	-2.249297
PSMA2	26.41541799	5.555863657	0.210326547	-2.249297
ARMCX5-GP	26.41541799	5.555863657	0.210326547	-2.249297
EDNRA	433.653112	91.11616398	0.210113018	-2.250763
ENTPD3	84.74946605	17.7787637	0.209780244	-2.253049
BMP4	482.0813783	101.1167186	0.20975031	-2.253255
SPSB1	201.4175622	42.22456379	0.209636952	-2.254035
CDKN3	58.33404806	12.22290005	0.209532862	-2.254752
HAS2	180.5053563	37.77987287	0.209300564	-2.256352
IRF4	90.25267814	18.88993643	0.209300564	-2.256352
PLP2	574.5353413	120.006655	0.208876019	-2.259281
FGD3	287.2676707	60.0033275	0.208876019	-2.259281
RHAG	31.91863007	6.667036389	0.208876019	-2.259281
SNCG	31.91863007	6.667036389	0.208876019	-2.259281
ENSG000002	31.91863007	6.667036389	0.208876019	-2.259281
EGFR	3836.839463	801.1555394	0.208806114	-2.259764
NXPH4	197.0149925	41.11339106	0.208681535	-2.260625
HOXA11	298.2740948	62.22567296	0.208619099	-2.261057
FAM228B	101.2591023	21.1122819	0.208497621	-2.261897
MLXIP	37.42184215	7.77820912	0.207852117	-2.266371
C4orf47	37.42184215	7.77820912	0.207852117	-2.266371
CFAP90	37.42184215	7.77820912	0.207852117	-2.266371
MB	80.34689639	16.66759097	0.207445362	-2.269197
SMTN	1340.582463	277.7931829	0.207218273	-2.270777
KHDRBS3	214.6252712	44.44690926	0.207090754	-2.271665
C6orf163	85.85010847	17.7787637	0.207090754	-2.271665
HNRNPA1L3	85.85010847	17.7787637	0.207090754	-2.271665
RSPO3	42.92505424	8.889381852	0.207090754	-2.271665
SYNPO	2200.18419	455.5808199	0.207064855	-2.271845
H2AC14	177.203429	36.66870014	0.206929969	-2.272785
ENSG000002	48.42826632	10.00055458	0.206502428	-2.275769
OTX1	156.2912231	32.22400921	0.206179263	-2.278029
CCNT2-AS1	53.9314784	11.11172731	0.206034169	-2.279044
DHFR	53.9314784	11.11172731	0.206034169	-2.279044
STOM	1343.88439	276.6820101	0.205882301	-2.280108
STAU2P1	64.93790256	13.33407278	0.205335748	-2.283943
SGCD	86.95075089	17.7787637	0.204469352	-2.290043
ATF7	277.3618889	56.6698093	0.204317217	-2.291117
TMEM200A	195.9143501	40.00221833	0.204182176	-2.292071
ADAM28	474.3768814	96.67202764	0.203787392	-2.294863
PFDN4	141.9828717	28.89049102	0.203478706	-2.29705
ITGA4	475.4775238	96.67202764	0.203315662	-2.298207
ADAM19	322.488228	65.55919115	0.203291734	-2.298377
NELL1	208.0214167	42.22456379	0.202981811	-2.300578
MOB4	33.01927249	6.667036389	0.201913485	-2.308191
EPO	16.50963624	3.333518194	0.201913485	-2.308191
LLPH	16.50963624	3.333518194	0.201913485	-2.308191
SCHIP1	16.50963624	3.333518194	0.201913485	-2.308191
SLC17A8	16.50963624	3.333518194	0.201913485	-2.308191
DUXAP8	16.50963624	3.333518194	0.201913485	-2.308191
RPL21P75	16.50963624	3.333518194	0.201913485	-2.308191
NANOGP8	16.50963624	3.333518194	0.201913485	-2.308191
ENSG000002	16.50963624	3.333518194	0.201913485	-2.308191
CACNG6	2.4894796	3.333518194	0.746802464	-0.421201
UGT3A1	2.4894796	3.333518194	0.746802464	-0.421201
SHLD2P1	2.4894796	3.333518194	0.746802464	-0.421201
NDST2	2.4894796	3.333518194	0.746802464	-0.421201
MTNR1A	2.4894796	3.333518194	0.746802464	-0.421201
GCSAML	2.4894796	3.333518194	0.746802464	-0.421201
CDV3P1	2.4894796	3.333518194	0.746802464	-0.421201
ACTG1P1	2.4894796	3.333518194	0.746802464	-0.421201
OR8H2	2.4894796	3.333518194	0.746802464	-0.421201
NOG	2.4894796	3.333518194	0.746802464	-0.421201
MIXL1	2.4894796	3.333518194	0.746802464	-0.421201
EZHIP	2.4894796	3.333518194	0.746802464	-0.421201
C17orf99	2.4894796	3.333518194	0.746802464	-0.421201
C14orf178	2.4894796	3.333518194	0.746802464	-0.421201
SNF8P1	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
DHX16	2.4894796	3.333518194	0.746802464	-0.421201
DPP9-AS1	2.4894796	3.333518194	0.746802464	-0.421201
KLRC2	2.4894796	3.333518194	0.746802464	-0.421201
TAS2R13	2.4894796	3.333518194	0.746802464	-0.421201
PRDX2P4	2.4894796	3.333518194	0.746802464	-0.421201
NFYBP1	2.4894796	3.333518194	0.746802464	-0.421201
HMGN2P15	2.4894796	3.333518194	0.746802464	-0.421201
GUSBP9	2.4894796	3.333518194	0.746802464	-0.421201
RPL21P69	2.4894796	3.333518194	0.746802464	-0.421201
RBMXP1	2.4894796	3.333518194	0.746802464	-0.421201
RPL10P1	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
FCF1P6	2.4894796	3.333518194	0.746802464	-0.421201
SOCS5P4	2.4894796	3.333518194	0.746802464	-0.421201
ATP5MC1P5	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ORM1	2.4894796	3.333518194	0.746802464	-0.421201
METTL21AF	2.4894796	3.333518194	0.746802464	-0.421201
PKP4P1	2.4894796	3.333518194	0.746802464	-0.421201
FAM41C	2.4894796	3.333518194	0.746802464	-0.421201
LINC02884	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
LINC02669	2.4894796	3.333518194	0.746802464	-0.421201
HNRNPA1P	2.4894796	3.333518194	0.746802464	-0.421201
DNAJC17P1	2.4894796	3.333518194	0.746802464	-0.421201
PTCSC2	2.4894796	3.333518194	0.746802464	-0.421201
PRPF38AP2	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
SRRM1P3	2.4894796	3.333518194	0.746802464	-0.421201
RN7SL530P	2.4894796	3.333518194	0.746802464	-0.421201
RPL34P18	2.4894796	3.333518194	0.746802464	-0.421201
ELOCP19	2.4894796	3.333518194	0.746802464	-0.421201
LINC01322	2.4894796	3.333518194	0.746802464	-0.421201
IFT122P2	2.4894796	3.333518194	0.746802464	-0.421201
MGC32805	2.4894796	3.333518194	0.746802464	-0.421201
GLUD1P3	2.4894796	3.333518194	0.746802464	-0.421201
LINC02600	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
PGAM1P8	2.4894796	3.333518194	0.746802464	-0.421201
RDXP1	2.4894796	3.333518194	0.746802464	-0.421201
ATF4P4	2.4894796	3.333518194	0.746802464	-0.421201
RPL41P5	2.4894796	3.333518194	0.746802464	-0.421201
RBM8B	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
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OR52L2P	2.4894796	3.333518194	0.746802464	-0.421201
EEF1DP7	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
SIGLEC20P	2.4894796	3.333518194	0.746802464	-0.421201
PLA2G4C-A	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
ENSG000002	2.4894796	3.333518194	0.746802464	-0.421201
CACNB1	139.4108576	186.6770189	0.746802464	-0.421201
NNMT	78.00369414	104.4502368	0.746802464	-0.421201
B9D2	73.02473494	97.78320037	0.746802464	-0.421201
ZMAT5	64.7264696	86.67147305	0.746802464	-0.421201
MAMSTR	59.7475104	80.00443666	0.746802464	-0.421201
TNFSF12	43.15097974	57.78098203	0.746802464	-0.421201
HOXA1	33.19306133	44.44690926	0.746802464	-0.421201
GSPT2	29.8737552	40.00221833	0.746802464	-0.421201
C1orf226	29.8737552	40.00221833	0.746802464	-0.421201
USP6	28.21410213	37.77987287	0.746802464	-0.421201
INAVA	28.21410213	37.77987287	0.746802464	-0.421201
UNC5CL	21.57548987	28.89049102	0.746802464	-0.421201
ITPRID1	21.57548987	28.89049102	0.746802464	-0.421201
LILRB3	18.25618373	24.44580009	0.746802464	-0.421201
ABO	17.4263572	23.33462736	0.746802464	-0.421201
ZNF322P1	17.4263572	23.33462736	0.746802464	-0.421201
FBXW11P1	16.59653067	22.22345463	0.746802464	-0.421201
HRAS	14.9368776	20.00110917	0.746802464	-0.421201
CCDC163	14.9368776	20.00110917	0.746802464	-0.421201
LY96	14.10705107	18.88993643	0.746802464	-0.421201
SEPTIN10P1	14.10705107	18.88993643	0.746802464	-0.421201
FIGNL2	14.10705107	18.88993643	0.746802464	-0.421201
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
OR9H1P	1.100642416	0.829826533	0.753947441	-0.407464
LINC02585	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PPIAP59	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PABPC1P11	1.100642416	0.829826533	0.753947441	-0.407464
MYLKP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL30P13	1.100642416	0.829826533	0.753947441	-0.407464
ABHD17AP4	1.100642416	0.829826533	0.753947441	-0.407464
MED4-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
UBTFL7	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ZFYVE9P1	1.100642416	0.829826533	0.753947441	-0.407464
PBX3-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PGA3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FOSL2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
SEPHS1P4	1.100642416	0.829826533	0.753947441	-0.407464
RPL21P83	1.100642416	0.829826533	0.753947441	-0.407464
CIBAR1P2	1.100642416	0.829826533	0.753947441	-0.407464
ASB15-AS1	1.100642416	0.829826533	0.753947441	-0.407464
TFAMP1	1.100642416	0.829826533	0.753947441	-0.407464
RGPD4-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01911	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TSSK1A	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LNCAROD	1.100642416	0.829826533	0.753947441	-0.407464
LINC01720	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
NAP1L5P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01305	1.100642416	0.829826533	0.753947441	-0.407464
OR55B1P	1.100642416	0.829826533	0.753947441	-0.407464
MRM3P1	1.100642416	0.829826533	0.753947441	-0.407464
KRT17P6	1.100642416	0.829826533	0.753947441	-0.407464
DLG3-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TERF1P7	1.100642416	0.829826533	0.753947441	-0.407464
RPL36AP16	1.100642416	0.829826533	0.753947441	-0.407464
TMEM114	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL4P2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL5P6	1.100642416	0.829826533	0.753947441	-0.407464
ST3GAL5-AS	1.100642416	0.829826533	0.753947441	-0.407464
KCND3-IT1	1.100642416	0.829826533	0.753947441	-0.407464
MRTFA-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TRIM80P	1.100642416	0.829826533	0.753947441	-0.407464
PPP1R26P5	1.100642416	0.829826533	0.753947441	-0.407464
COL4A2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LUZP4P1	1.100642416	0.829826533	0.753947441	-0.407464
RPL35AP20	1.100642416	0.829826533	0.753947441	-0.407464
IPO7P1	1.100642416	0.829826533	0.753947441	-0.407464
NALCN-AS1	1.100642416	0.829826533	0.753947441	-0.407464
PHGR1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC00892	1.100642416	0.829826533	0.753947441	-0.407464
BPIFB5P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ARHGEF4-AS	1.100642416	0.829826533	0.753947441	-0.407464
ACTR1AP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MTIF2P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P2	1.100642416	0.829826533	0.753947441	-0.407464
BTF3P6	1.100642416	0.829826533	0.753947441	-0.407464
RPL22P21	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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LINC01675	1.100642416	0.829826533	0.753947441	-0.407464
UGT1A13P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ZFRP1	1.100642416	0.829826533	0.753947441	-0.407464
SYNE1-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464

ENSG000002	16.50963624	3.333518194	0.201913485	-2.308191
SMIM8	198.1156349	40.00221833	0.201913485	-2.308191
ZNF92	192.6124229	38.8910456	0.201913485	-2.308191
CDC42	99.05781747	20.00110917	0.201913485	-2.308191
FST	49.52890873	10.00055458	0.201913485	-2.308191
USP13	27.51606041	5.555863657	0.201913485	-2.308191
GPR18	27.51606041	5.555863657	0.201913485	-2.308191
LAMTOR5P1	27.51606041	5.555863657	0.201913485	-2.308191
ENSG000002	27.51606041	5.555863657	0.201913485	-2.308191
H4C6	126.5738779	25.55697282	0.201913485	-2.308191
SLCO1A2	77.04496914	15.55641824	0.201913485	-2.308191
TRAJ23	44.02569665	8.889381852	0.201913485	-2.308191
IGSF5	38.52248457	7.77820912	0.201913485	-2.308191
MAD1L1	11.00642416	2.222345463	0.201913485	-2.308191
LGALS2	11.00642416	2.222345463	0.201913485	-2.308191
C22orf23	11.00642416	2.222345463	0.201913485	-2.308191
C1orf50	11.00642416	2.222345463	0.201913485	-2.308191
TMIGD1	11.00642416	2.222345463	0.201913485	-2.308191
AFDN-DT	11.00642416	2.222345463	0.201913485	-2.308191
MTCO1P11	11.00642416	2.222345463	0.201913485	-2.308191
ZBED5-AS1	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
ALOXE3P1	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
ENSG000002	11.00642416	2.222345463	0.201913485	-2.308191
CLEC4A	5.503212081	1.111172731	0.201913485	-2.308191
HOXD11	5.503212081	1.111172731	0.201913485	-2.308191
SLC34A1	5.503212081	1.111172731	0.201913485	-2.308191
SDS	5.503212081	1.111172731	0.201913485	-2.308191
TBR1	5.503212081	1.111172731	0.201913485	-2.308191
IL36B	5.503212081	1.111172731	0.201913485	-2.308191
OR5F1	5.503212081	1.111172731	0.201913485	-2.308191
MZT2B	5.503212081	1.111172731	0.201913485	-2.308191
MEPE	5.503212081	1.111172731	0.201913485	-2.308191
OXGR1	5.503212081	1.111172731	0.201913485	-2.308191
SPNS1	5.503212081	1.111172731	0.201913485	-2.308191
INHBC	5.503212081	1.111172731	0.201913485	-2.308191
RPS3AP5	5.503212081	1.111172731	0.201913485	-2.308191
CSNK1A1L	5.503212081	1.111172731	0.201913485	-2.308191
LINC02724	5.503212081	1.111172731	0.201913485	-2.308191
ASB18	5.503212081	1.111172731	0.201913485	-2.308191
PLGLB1	5.503212081	1.111172731	0.201913485	-2.308191
GGTA1	5.503212081	1.111172731	0.201913485	-2.308191
MT-TS1	5.503212081	1.111172731	0.201913485	-2.308191
YBX1P6	5.503212081	1.111172731	0.201913485	-2.308191
KRT18P19	5.503212081	1.111172731	0.201913485	-2.308191
DNAJC27-AS	5.503212081	1.111172731	0.201913485	-2.308191
DHDDS-AS1	5.503212081	1.111172731	0.201913485	-2.308191
ZKSCAN8P1	5.503212081	1.111172731	0.201913485	-2.308191
RPS3AP38	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
PRELID1P5	5.503212081	1.111172731	0.201913485	-2.308191
IL6STP1	5.503212081	1.111172731	0.201913485	-2.308191
PDC-AS1	5.503212081	1.111172731	0.201913485	-2.308191
ZNF674-AS1	5.503212081	1.111172731	0.201913485	-2.308191
LINC02613	5.503212081	1.111172731	0.201913485	-2.308191
SNRPFP1	5.503212081	1.111172731	0.201913485	-2.308191
TRAF3IP2-A	5.503212081	1.111172731	0.201913485	-2.308191
SILC1	5.503212081	1.111172731	0.201913485	-2.308191
LINC00865	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
TMEM185AP	5.503212081	1.111172731	0.201913485	-2.308191
PCBP2P1	5.503212081	1.111172731	0.201913485	-2.308191
RMDN2-AS1	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
LINC00299	5.503212081	1.111172731	0.201913485	-2.308191
LINC01358	5.503212081	1.111172731	0.201913485	-2.308191
KMT2E-AS1	5.503212081	1.111172731	0.201913485	-2.308191
PTPRG-AS1	5.503212081	1.111172731	0.201913485	-2.308191
CCZ1P1	5.503212081	1.111172731	0.201913485	-2.308191
FHIP1A-DT	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
SCARNA9	5.503212081	1.111172731	0.201913485	-2.308191
HSPA8P5	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
THOC1-DT	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
TBX2-AS1	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
TBC1D3D	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
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ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
SND1-IT1	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191

ARL11	10.78774493	14.44524551	0.746802464	-0.421201
ADGRF2	10.78774493	14.44524551	0.746802464	-0.421201
ATF7IP2	10.78774493	14.44524551	0.746802464	-0.421201
GSG1L	10.78774493	14.44524551	0.746802464	-0.421201
WASH6P	10.78774493	14.44524551	0.746802464	-0.421201
INSC	10.78774493	14.44524551	0.746802464	-0.421201
ACTN3	10.78774493	14.44524551	0.746802464	-0.421201
TSPOAP1-A	10.78774493	14.44524551	0.746802464	-0.421201
USHBP1	9.128091867	12.22290005	0.746802464	-0.421201
SLC14A2	9.128091867	12.22290005	0.746802464	-0.421201
DNAI2	9.128091867	12.22290005	0.746802464	-0.421201
EPHX4	9.128091867	12.22290005	0.746802464	-0.421201
ENSG000002	9.128091867	12.22290005	0.746802464	-0.421201
SFTPA1	8.298265334	11.11172731	0.746802464	-0.421201
FEZF2	8.298265334	11.11172731	0.746802464	-0.421201
NLRP11	8.298265334	11.11172731	0.746802464	-0.421201
KCNA4	8.298265334	11.11172731	0.746802464	-0.421201
SLC23A3	8.298265334	11.11172731	0.746802464	-0.421201
ENSG000002	8.298265334	11.11172731	0.746802464	-0.421201
ENSG000002	8.298265334	11.11172731	0.746802464	-0.421201
SYT10	7.4684388	10.00055458	0.746802464	-0.421201
TACR1	7.4684388	10.00055458	0.746802464	-0.421201
HOXC13	7.4684388	10.00055458	0.746802464	-0.421201
ROPN1L	7.4684388	10.00055458	0.746802464	-0.421201
TMEM140	7.4684388	10.00055458	0.746802464	-0.421201
NLRP4	7.4684388	10.00055458	0.746802464	-0.421201
CPA3	7.4684388	10.00055458	0.746802464	-0.421201
ZSCAN5B	7.4684388	10.00055458	0.746802464	-0.421201
MCIDAS	7.4684388	10.00055458	0.746802464	-0.421201
BPIFB2	4.149132667	5.555863657	0.746802464	-0.421201
TMPRSS11E	4.149132667	5.555863657	0.746802464	-0.421201
KCNA7	4.149132667	5.555863657	0.746802464	-0.421201
SLC46A2	4.149132667	5.555863657	0.746802464	-0.421201
GPR55	4.149132667	5.555863657	0.746802464	-0.421201
CCDC83	4.149132667	5.555863657	0.746802464	-0.421201
DRD3	4.149132667	5.555863657	0.746802464	-0.421201
PRR35	4.149132667	5.555863657	0.746802464	-0.421201
MATN1	4.149132667	5.555863657	0.746802464	-0.421201
ALPG	4.149132667	5.555863657	0.746802464	-0.421201
AKR1E2	4.149132667	5.555863657	0.746802464	-0.421201
BFSP2	4.149132667	5.555863657	0.746802464	-0.421201
ST20	4.149132667	5.555863657	0.746802464	-0.421201
H2AC25	4.149132667	5.555863657	0.746802464	-0.421201
AKAP14	4.149132667	5.555863657	0.746802464	-0.421201
ADRB3	4.149132667	5.555863657	0.746802464	-0.421201
SLC12A5-AS	4.149132667	5.555863657	0.746802464	-0.421201
LRRC3C	4.149132667	5.555863657	0.746802464	-0.421201
CYS1	4.149132667	5.555863657	0.746802464	-0.421201
SAP18P2	4.149132667	5.555863657	0.746802464	-0.421201
APELA	4.149132667	5.555863657	0.746802464	-0.421201
EML2-AS1	4.149132667	5.555863657	0.746802464	-0.421201
ENSG000002	4.149132667	5.555863657	0.746802464	-0.421201
ENSG000002	4.149132667	5.555863657	0.746802464	-0.421201
ENSG000002	4.149132667	5.555863657	0.746802464	-0.421201
RNASEH2C	126.9634596	170.0094279	0.746802464	-0.421201
FOXP2	26.55444907	35.55752741	0.746802464	-0.421201
TMEM240	15.76670413	21.1122819	0.746802464	-0.421201
PDXP	15.76670413	21.1122819	0.746802464	-0.421201
RSPH14	13.27722453	17.7787637	0.746802464	-0.421201
CYP2S1	13.27722453	17.7787637	0.746802464	-0.421201
FSIP2-AS1	13.27722453	17.7787637	0.746802464	-0.421201
LRRC37A17	13.27722453	17.7787637	0.746802464	-0.421201
GNRH1	6.638612267	8.889381852	0.746802464	-0.421201
CIB4	6.638612267	8.889381852	0.746802464	-0.421201
WDR88	6.638612267	8.889381852	0.746802464	-0.421201
C1QL4	6.638612267	8.889381852	0.746802464	-0.421201
VSTM5	6.638612267	8.889381852	0.746802464	-0.421201
POTEM	6.638612267	8.889381852	0.746802464	-0.421201
OR52H2P	6.638612267	8.889381852	0.746802464	-0.421201
CCDC90B-A	6.638612267	8.889381852	0.746802464	-0.421201
ENSG000002	6.638612267	8.889381852	0.746802464	-0.421201
GPIHBP1	6.638612267	8.889381852	0.746802464	-0.421201
ENSG000002	6.638612267	8.889381852	0.746802464	-0.421201
EPYC	3.319306133	4.444690926	0.746802464	-0.421201
ATP6V1B1	3.319306133	4.444690926	0.746802464	-0.421201
TP53AIP1	3.319306133	4.444690926	0.746802464	-0.421201
SSTR4	3.319306133	4.444690926	0.746802464	-0.421201
SLC39A5	3.319306133	4.444690926	0.746802464	-0.421201
SOAT2	3.319306133	4.444690926	0.746802464	-0.421201
OR9K2	3.319306133	4.444690926	0.746802464	-0.421201
EFCAB3	3.319306133	4.444690926	0.746802464	-0.421201
UTS2R	3.319306133	4.444690926	0.746802464	-0.421201
GABRR3	3.319306133	4.444690926	0.746802464	-0.421201
CLPSL1	3.319306133	4.444690926	0.746802464	-0.421201
RPS3AP47	3.319306133	4.444690926	0.746802464	-0.421201
TRIM77	3.319306133	4.444690926	0.746802464	-0.421201
HNRNPA3P	3.319306133	4.444690926	0.746802464	-0.421201
HMGN2P3	3.319306133	4.444690926	0.746802464	-0.421201
LINC01036	3.319306133	4.444690926	0.746802464	-0.421201
DNAJC9-AS	3.319306133	4.444690926	0.746802464	-0.421201
C9orf85P2	3.319306133	4.444690926	0.746802464	-0.421201
ASLP1	3.319306133	4.444690926	0.746802464	-0.421201
SBF1P1	3.319306133	4.444690926	0.746802464	-0.421201
ENSG000002	3.319306133	4.444690926	0.746802464	-0.421201
OR8G5	3.319306133	4.444690926	0.746802464	-0.421201
LINC01500	3.319306133	4.444690926	0.746802464	-0.421201
TVP23C-CD	3.319306133	4.444690926	0.746802464	-0.421201
RBM17P4	3.319306133	4.444690926	0.746802464	-0.421201
ENSG000002	3.319306133	4.444690926	0.746802464	-0.421201
ENSG000002	3.319306133	4.444690926	0.746802464	-0.421201
ENSG000002	3.319306133	4.444690926	0.746802464	-0.421201

ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL36AP15	1.100642416	0.829826533	0.753947441	-0.407464
ESRRAP2	1.100642416	0.829826533	0.753947441	-0.407464
HAUS6P3	1.100642416	0.829826533	0.753947441	-0.407464
GUSBP17	1.100642416	0.829826533	0.753947441	-0.407464
SNX18P14	1.100642416	0.829826533	0.753947441	-0.407464
POU5F1P3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SEPTIN14P12	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
H2BW3P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENOPH1P1	1.100642416	0.829826533	0.753947441	-0.407464
EI24P2	1.100642416	0.829826533	0.753947441	-0.407464
LINC01361	1.100642416	0.829826533	0.753947441	-0.407464
H3P36	1.100642416	0.829826533	0.753947441	-0.407464
PRKG1-AS1	1.100642416	0.829826533	0.753947441	-0.407464
SDR42E1P5	1.100642416	0.829826533	0.753947441	-0.407464
LINC02814	1.100642416	0.829826533	0.753947441	-0.407464
WASF3-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
COX5BP6	1.100642416	0.829826533	0.753947441	-0.407464
MKRN8P	1.100642416	0.829826533	0.753947441	-0.407464
RPS20P9	1.100642416	0.829826533	0.753947441	-0.407464
MBD3L5	1.100642416	0.829826533	0.753947441	-0.407464
CNN2P11	1.100642416	0.829826533	0.753947441	-0.407464
XRCC6P1	1.100642416	0.829826533	0.753947441	-0.407464
LINC02790	1.100642416	0.829826533	0.753947441	-0.407464
CAMTA1-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HEY2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
GGTA2P	1.100642416	0.829826533	0.753947441	-0.407464
LINC02773	1.100642416	0.829826533	0.753947441	-0.407464
NUDCP2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MRPL50P2	1.100642416	0.829826533	0.753947441	-0.407464
RBM43P1	1.100642416	0.829826533	0.753947441	-0.407464
CDRT15P5	1.100642416	0.829826533	0.753947441	-0.407464
RN7SL254P	1.100642416	0.829826533	0.753947441	-0.407464
RPL29P18	1.100642416	0.829826533	0.753947441	-0.407464
RPL36AP45	1.100642416	0.829826533	0.753947441	-0.407464
SEC62-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
KRBOX1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL32P32	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RN7SL83P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RN7SL390P	1.100642416	0.829826533	0.753947441	-0.407464
WDR70P1	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P2	1.100642416	0.829826533	0.753947441	-0.407464
LRRC78P	1.100642416	0.829826533	0.753947441	-0.407464
DBIL5P2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FGF14-IT1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL21P115	1.100642416	0.829826533	0.753947441	-0.407464
EEF1A1P10	1.100642416	0.829826533	0.753947441	-0.407464
RPL5P17	1.100642416	0.829826533	0.753947441	-0.407464
VTI1BP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPSAP51	1.100642416	0.829826533	0.753947441	-0.407464
RN7SL359P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MTHFD2P1	1.100642416	0.829826533	0.753947441	-0.407464
RPL10AP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
BMAL2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
CXXC4-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC00461	1.100642416	0.829826533	0.753947441	-0.407464
LINC00682	1.100642416	0.829826533	0.753947441	-0.407464
TTBK2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LACTB2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LINC02288	1.100642416	0.829826533	0.753947441	-0.407464
UBE2D3-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LINC00920	1.100642416	0.829826533	0.753947441	-0.407464
LY6E-DT	1.100642416	0.829826533	0.753947441	-0.407464
MARCOL	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PPP1R3B-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MTND5P11	1.100642416	0.829826533	0.753947441	-0.407464
MTCYBP40	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01033	1.100642416	0.829826533	0.753947441	-0.407464
SPATS1	1.100642416	0.829826533	0.753947441	-0.407464
RPL7L1P4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC00942	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02972	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
XBP1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464

ASAP1-IT2	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ENSG000002	5.503212081	1.111172731	0.201913485	-2.308191
ATP8B5P	5.503212081	1.111172731	0.201913485	-2.308191
FKBP9P1.1	5.503212081	1.111172731	0.201913485	-2.308191
CKAP2	413.8415485	83.33795486	0.201376481	-2.312033
SERHL2	226.7323378	45.55808199	0.200933323	-2.315211
ABHD2	3374.569648	677.8153662	0.200859795	-2.315739
CMYA5	924.5396297	185.5658462	0.200711619	-2.316804
LBH	1179.88867	236.6797918	0.20059502	-2.317642
ZNF774	149.6873686	30.00166375	0.200428827	-2.318838
MSRB3	277.3618889	55.55863657	0.200310997	-2.319686
FAM83B	111.164884	22.22345463	0.199914342	-2.322546
LINC00963	100.1584599	20.00110917	0.199694656	-2.324132
MCTP2	718.7194978	143.3412824	0.199439813	-2.325975
TMEM184A	429.2505424	85.56030032	0.199324851	-2.326807
STX2	156.2912231	31.11283648	0.199069633	-2.328655
FANCI	279.5631737	55.55863657	0.198733745	-2.331091
EBLN3P	134.2783748	26.66814555	0.198603428	-2.332038
LINC01619	67.13918739	13.33407278	0.198603428	-2.332038
AKT3	660.3854498	131.1183823	0.19854826	-2.332438
ACVRL1	128.7751627	25.55697282	0.198461973	-2.333065
GOLGA4	7459.053655	1480.082078	0.198427595	-2.333315
GTSE1	56.13276323	11.11172731	0.197954397	-2.33676
ELF3-AS1	56.13276323	11.11172731	0.197954397	-2.33676
ENSG000002	56.13276323	11.11172731	0.197954397	-2.33676
COX15	168.3982897	33.33518194	0.197954397	-2.33676
LCN2	162.8950776	32.22400921	0.197820644	-2.337735
PKP1	405.0364092	80.00443666	0.197524062	-2.3399
S100A4	151.8886534	30.00166375	0.197524062	-2.3399
F5	729.725922	143.3412824	0.196431671	-2.347901
DDX3Y	1617.944352	317.7954012	0.196419241	-2.347992
ENSG000002	39.62312699	7.77820912	0.196304777	-2.348833
ADGRF1	152.9892959	30.00166375	0.196103025	-2.350316
LTBP1	5873.027933	1151.17495	0.196010467	-2.350997
STAT4	181.6059987	35.55752741	0.195794895	-2.352585
PLS3	778.1541883	152.2306642	0.195630463	-2.353797
RNY1	34.11991491	6.667036389	0.195400147	-2.355497
MCUR1P1	34.11991491	6.667036389	0.195400147	-2.355497
IFIT2	159.5931504	31.11283648	0.194950951	-2.358817
KCND3	1418.728075	275.5708374	0.194237953	-2.364103
TCEAL5	28.61670282	5.555863657	0.194147582	-2.364774
RPSAP15	28.61670282	5.555863657	0.194147582	-2.364774
PCAT14	28.61670282	5.555863657	0.194147582	-2.364774
KLK2	6087.653205	1181.176614	0.194028236	-2.365661
ABCB1	773.7516187	150.0083187	0.193871412	-2.366828
DGKG	51.73019357	10.00055458	0.193321422	-2.370927
ERCC6L	51.73019357	10.00055458	0.193321422	-2.370927
ARSJ	1057.717362	204.4557826	0.19329907	-2.371093
KLF3P1	23.11349074	4.444690926	0.192298557	-2.37858
ENSG000002	23.11349074	4.444690926	0.192298557	-2.37858
ENSG000002	23.11349074	4.444690926	0.192298557	-2.37858
MACROD2	110.0642416	21.1122819	0.191817811	-2.382191
ORC5	389.6274154	74.44857301	0.191076321	-2.387779
ENSG000002	40.7237694	7.77820912	0.190999243	-2.388361
RBM48	302.6766645	57.78098203	0.190900022	-2.389111
TAGAP	99.05781747	18.88993643	0.190696069	-2.390653
HSPB1P1	58.33404806	11.11172731	0.19048442	-2.392255
AP1S3	17.61027866	3.333518194	0.189293892	-2.4013
HOXD4	17.61027866	3.333518194	0.189293892	-2.4013
SUMO4	17.61027866	3.333518194	0.189293892	-2.4013
SRPK3	17.61027866	3.333518194	0.189293892	-2.4013
ENSG000002	17.61027866	3.333518194	0.189293892	-2.4013
STAG3L5P	17.61027866	3.333518194	0.189293892	-2.4013
OIP5-AS1	158.4925079	30.00166375	0.189293892	-2.4013
TNFSF15	377.5203488	71.11505481	0.188374097	-2.408327
COL5A1	2633.837302	495.5830382	0.18816008	-2.409968
COL28A1	947.6531204	177.787637	0.187608349	-2.414204
HAGLR	29.71734524	5.555863657	0.186956931	-2.419222
LINC00847	29.71734524	5.555863657	0.186956931	-2.419222
SYNJ2BP	143.0835141	26.66814555	0.186381679	-2.423668
MATR3	71.54175706	13.33407278	0.186381679	-2.423668
MT1X	113.3661689	21.1122819	0.186230884	-2.424836
PUS3	125.4732355	23.33462736	0.185972947	-2.426835
LINC00938	41.82441182	7.77820912	0.185972947	-2.426835
MNDA	137.580302	25.55697282	0.185760406	-2.428485
SCDP1	53.9314784	10.00055458	0.185430752	-2.431048
MTARC1	173.9015018	32.22400921	0.18530035	-2.432062
TMEM117	138.6809445	25.55697282	0.184286117	-2.439981
ZEB2	6935.147865	1277.848641	0.18425687	-2.44021
IL1R1	7904.813834	1453.413933	0.18386441	-2.443286
PTPRC	822.179885	151.1194915	0.18380344	-2.443764
SETBP1	2522.672418	463.359029	0.183677843	-2.44475
BHLHA15	24.21413316	4.444690926	0.183557714	-2.445694
ENSG000002	24.21413316	4.444690926	0.183557714	-2.445694
ARHGEF5	12.10706658	2.222345463	0.183557714	-2.445694
CALML3	12.10706658	2.222345463	0.183557714	-2.445694
ZNF223	12.10706658	2.222345463	0.183557714	-2.445694
TMEM86B	12.10706658	2.222345463	0.183557714	-2.445694
QRICH1	12.10706658	2.222345463	0.183557714	-2.445694
SRRM2-AS1	12.10706658	2.222345463	0.183557714	-2.445694
ARF1P2	12.10706658	2.222345463	0.183557714	-2.445694
LINC00339	12.10706658	2.222345463	0.183557714	-2.445694
EDRF1-DT	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
ASB4	1.659653067	2.222345463	0.746802464	-0.421201
CD79B	1.659653067	2.222345463	0.746802464	-0.421201
AVP	1.659653067	2.222345463	0.746802464	-0.421201
CLC	1.659653067	2.222345463	0.746802464	-0.421201
TNP1	1.659653067	2.222345463	0.746802464	-0.421201
ZNF835	1.659653067	2.222345463	0.746802464	-0.421201
NRL	1.659653067	2.222345463	0.746802464	-0.421201
FCRLA	1.659653067	2.222345463	0.746802464	-0.421201
CELA2A	1.659653067	2.222345463	0.746802464	-0.421201
SLC39A1	1.659653067	2.222345463	0.746802464	-0.421201
RPL7A	1.659653067	2.222345463	0.746802464	-0.421201
ASZ1	1.659653067	2.222345463	0.746802464	-0.421201
BIRC8	1.659653067	2.222345463	0.746802464	-0.421201
ANKRD2	1.659653067	2.222345463	0.746802464	-0.421201
YPEL4	1.659653067	2.222345463	0.746802464	-0.421201
KLK6	1.659653067	2.222345463	0.746802464	-0.421201
ACTBL2	1.659653067	2.222345463	0.746802464	-0.421201
HSFX1	1.659653067	2.222345463	0.746802464	-0.421201
C11orf40	1.659653067	2.222345463	0.746802464	-0.421201
OR10W1	1.659653067	2.222345463	0.746802464	-0.421201
PRPF8	1.659653067	2.222345463	0.746802464	-0.421201
CLRN3	1.659653067	2.222345463	0.746802464	-0.421201
GPR88	1.659653067	2.222345463	0.746802464	-0.421201
SHISAL2A	1.659653067	2.222345463	0.746802464	-0.421201
TMIGD1	1.659653067	2.222345463	0.746802464	-0.421201
BPIFC	1.659653067	2.222345463	0.746802464	-0.421201
AQP12A	1.659653067	2.222345463	0.746802464	-0.421201
SGCZ	1.659653067	2.222345463	0.746802464	-0.421201
SLC51B	1.659653067	2.222345463	0.746802464	-0.421201
TMEM221	1.659653067	2.222345463	0.746802464	-0.421201
RNASE9	1.659653067	2.222345463	0.746802464	-0.421201
Y_RNA.66	1.659653067	2.222345463	0.746802464	-0.421201
Metazoa_SRI	1.659653067	2.222345463	0.746802464	-0.421201
LRIT2	1.659653067	2.222345463	0.746802464	-0.421201
MICA	1.659653067	2.222345463	0.746802464	-0.421201
FOXD4L5	1.659653067	2.222345463	0.746802464	-0.421201
ARRDC5	1.659653067	2.222345463	0.746802464	-0.421201
KLRC3	1.659653067	2.222345463	0.746802464	-0.421201
IGKJ4	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
PPIAP42	1.659653067	2.222345463	0.746802464	-0.421201
LINC00887	1.659653067	2.222345463	0.746802464	-0.421201
TUBBP2	1.659653067	2.222345463	0.746802464	-0.421201
ANKRD20A	1.659653067	2.222345463	0.746802464	-0.421201
ST13P20	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
RPL32P6	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
RPL3P7	1.659653067	2.222345463	0.746802464	-0.421201
DUTP6	1.659653067	2.222345463	0.746802464	-0.421201
COX7BP3	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
FTH1P16	1.659653067	2.222345463	0.746802464	-0.421201
EIF4A2P2	1.659653067	2.222345463	0.746802464	-0.421201
NAB1P1	1.659653067	2.222345463	0.746802464	-0.421201
LAMTOR3P	1.659653067	2.222345463	0.746802464	-0.421201
RASA4CP	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
RPL21P93	1.659653067	2.222345463	0.746802464	-0.421201
SHC1P1	1.659653067	2.222345463	0.746802464	-0.421201
GNG12-AS1	1.659653067	2.222345463	0.746802464	-0.421201
SLC16A6P1	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
LINC01250	1.659653067	2.222345463	0.746802464	-0.421201
UPF3AP3	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
FABP5P2	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
PRPF31-AS1	1.659653067	2.222345463	0.746802464	-0.421201
LINC01684	1.659653067	2.222345463	0.746802464	-0.421201
HNRNPA1P	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
PTPN11P1	1.659653067	2.222345463	0.746802464	-0.421201
HNRNPA3P1	1.659653067	2.222345463	0.746802464	-0.421201
RPL21P125	1.659653067	2.222345463	0.746802464	-0.421201
RPL22P2	1.659653067	2.222345463	0.746802464	-0.421201
RPL13AP22	1.659653067	2.222345463	0.746802464	-0.421201
RPL37P23	1.659653067	2.222345463	0.746802464	-0.421201
MIR4458HG	1.659653067	2.222345463	0.746802464	-0.421201
HMGA1P2	1.659653067	2.222345463	0.746802464	-0.421201
AMD1P3	1.659653067	2.222345463	0.746802464	-0.421201
OSMR-DT	1.659653067	2.222345463	0.746802464	-0.421201
AGA-DT	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
HNRNPA3P	1.659653067	2.222345463	0.746802464	-0.421201
GUSBP14	1.659653067	2.222345463	0.746802464	-0.421201
INTS9-AS1	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
MRPS36P4	1.659653067	2.222345463	0.746802464	-0.421201
WTAPP1	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
TUBAP11	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
LINC01633	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02232	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RDH10-AS1	1.100642416	0.829826533	0.753947441	-0.407464
LINC01332	1.100642416	0.829826533	0.753947441	-0.407464
LINC01303	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TUBB8P4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA3P1	1.100642416	0.829826533	0.753947441	-0.407464
UGT2B26P	1.100642416	0.829826533	0.753947441	-0.407464
C12orf29P3	1.100642416	0.829826533	0.753947441	-0.407464
H3P14	1.100642416	0.829826533	0.753947441	-0.407464
ABITRAMP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TUBB7P	1.100642416	0.829826533	0.753947441	-0.407464
OR7E28P	1.100642416	0.829826533	0.753947441	-0.407464
C5orf64-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.115	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-999P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RNU2-34P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SCARNA14	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
CIR1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SERPINE3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
COX6B1P6	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENTPD4-DT	1.100642416	0.829826533	0.753947441	-0.407464
RNU6-988P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
GASAL1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
IGKV2OR22-	1.100642416	0.829826533	0.753947441	-0.407464
MARK2P11	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
CCT3P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SLIT3-AS2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MTND2P32	1.100642416	0.829826533	0.753947441	-0.407464
MTND6P3	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
COX6CP5	1.100642416	0.829826533	0.753947441	-0.407464
SENCR	1.100642416	0.829826533	0.753947441	-0.407464
IGLL5	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPCP8	1.100642416	0.829826533	0.753947441	-0.407464
FDPSP4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LMNTD2-AS	1.100642416	0.829826533	0.753947441	-0.407464
OR5M10	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
OR4A19P	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
BCAS2P1	1.100642416	0.829826533	0.753947441	-0.407464
OR5B10P	1.100642416	0.829826533	0.753947441	-0.407464
LINC02756	1.100642416	0.829826533	0.753947441	-0.407464
TMEM123-D	1.100642416	0.829826533	0.753947441	-0.407464
PATL1-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
BTG1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SRSF3P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P6	1.100642416	0.829826533	0.753947441	-0.407464
PPFIA2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02395	1.100642416	0.829826533	0.753947441	-0.407464
HMGA1P3	1.100642416	0.829826533	0.753947441	-0.407464
NSA2P2	1.100642416	0.829826533	0.753947441	-0.407464
ZNF970P	1.100642416	0.829826533	0.753947441	-0.407464
PAPLN-AS1	1.100642416	0.829826533	0.753947441	-0.407464

PMS2P7	12.10706658	2.222345463	0.183557714	-2.445694
PSMG3-AS1	12.10706658	2.222345463	0.183557714	-2.445694
DUXAP10	12.10706658	2.222345463	0.183557714	-2.445694
HOXA-AS2	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
TAPT1-AS1	12.10706658	2.222345463	0.183557714	-2.445694
ERVV-1	12.10706658	2.222345463	0.183557714	-2.445694
ZNF528-AS1	12.10706658	2.222345463	0.183557714	-2.445694
LINC03072	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
PAGR1	12.10706658	2.222345463	0.183557714	-2.445694
LINC00921	12.10706658	2.222345463	0.183557714	-2.445694
ENSG000002	12.10706658	2.222345463	0.183557714	-2.445694
SDHAP1	12.10706658	2.222345463	0.183557714	-2.445694
KCNJ5	60.5353329	11.11172731	0.183557714	-2.445694
RSPO2	36.32119974	6.667036389	0.183557714	-2.445694
CMAHP	36.32119974	6.667036389	0.183557714	-2.445694
ENSG000002	36.32119974	6.667036389	0.183557714	-2.445694
PRR15L	260.8522527	47.78042745	0.183170461	-2.448741
CDH19	163.99572	30.00166375	0.182941748	-2.450544
SERPINA1	91.35332055	16.66759097	0.182451945	-2.454412
TRAPPC6B	507.3961539	92.22733671	0.181765936	-2.459846
LAMP3	544.8179961	98.8943731	0.181518184	-2.461814
ZNF512B	826.5824546	150.0083187	0.181480163	-2.462116
UFM1	85.85010847	15.55641824	0.18120441	-2.46431
AHR	159.5931504	28.89049102	0.181025883	-2.465732
BHMT2	104.5610295	18.88993643	0.180659434	-2.468655
SCN7A	886.0171451	160.0088733	0.180593428	-2.469183
GLYATL3	123.2719506	22.22345463	0.180279898	-2.47169
H4C4	154.0899383	27.77931829	0.180279898	-2.47169
UTY	2589.811606	466.6925472	0.180203281	-2.472303
ADRA1A	160.6937928	28.89049102	0.17978598	-2.475648
SMC1B	68.23982981	12.22290005	0.179116801	-2.481027
SRP19	68.23982981	12.22290005	0.179116801	-2.481027
ENSG000002	86.95075089	15.55641824	0.178910683	-2.482689
PRNP	2403.803037	430.0238471	0.178893129	-2.48283
TSHZ2	845.2933757	151.1194915	0.178777565	-2.483762
SPESP1	105.661672	18.88993643	0.178777565	-2.483762
GDF11	143.0835141	25.55697282	0.178615775	-2.485069
C3orf70	205.8201318	36.66870014	0.178158958	-2.488763
CRCP	74.84368431	13.33407278	0.178158958	-2.488763
LINC00174	37.42184215	6.667036389	0.178158958	-2.488763
SSX1	18.71092108	3.333518194	0.178158958	-2.488763
PCMTD1-DT	18.71092108	3.333518194	0.178158958	-2.488763
MGC32805	18.71092108	3.333518194	0.178158958	-2.488763
GMDS-DT	93.55460539	16.66759097	0.178158958	-2.488763
LINC00665	56.13276323	10.00055458	0.178158958	-2.488763
SYNCRIP	175.0021442	31.11283648	0.177785459	-2.491791
RALA	219.0278408	38.8910456	0.17756211	-2.493604
ADAMTS5	300.4753796	53.33629111	0.177506361	-2.494057
PLPP5	1504.578183	266.6814555	0.177246659	-2.49617
TRMT13	401.7344819	71.11505481	0.177020042	-2.498015
CD86	150.788011	26.66814555	0.176858527	-2.499332
CUTALP	44.02569665	7.77820912	0.1766743	-2.500836
ENSG000002	50.62955115	8.889381852	0.175576944	-2.509825
DDX43	25.31477557	4.444690926	0.175576944	-2.509825
WAS	139.7815869	24.44580009	0.174885696	-2.515516
RILPL2	286.1670282	50.00277291	0.174732824	-2.516777
DANCR	57.23340565	10.00055458	0.174732824	-2.516777
TRGV9	324.6895128	56.6698093	0.174535386	-2.518409
GSTM1	121.0706658	21.1122819	0.174379828	-2.519695
GBP4	305.9785917	53.33629111	0.1743138	-2.520241
EOGT	618.561038	107.7837549	0.174249182	-2.520776
CSMD3	376.4197064	65.55919115	0.174165141	-2.521472
SUZ12P1	63.83726015	11.11172731	0.174063349	-2.522316
TACR2	31.91863007	5.555863657	0.174063349	-2.522316
SHISAL1	31.91863007	5.555863657	0.174063349	-2.522316
TRAJ19	31.91863007	5.555863657	0.174063349	-2.522316
RAD51-AS1	31.91863007	5.555863657	0.174063349	-2.522316
PRANCR	31.91863007	5.555863657	0.174063349	-2.522316
AP3S2	70.44111464	12.22290005	0.173519401	-2.526831
ST6GALNAC	38.52248457	6.667036389	0.173068702	-2.530583
RSPO1	83.64882364	14.44524551	0.172689165	-2.533751
LACC1	90.25267814	15.55641824	0.17236517	-2.53646
CUTA	45.12633907	7.77820912	0.17236517	-2.53646
LINC00205	45.12633907	7.77820912	0.17236517	-2.53646
ABCC3	290.5695979	50.00277291	0.172085357	-2.538804
CXCL10	110.0642416	18.88993643	0.171626462	-2.542656
TNFAIP8L3	58.33404806	10.00055458	0.171435978	-2.544258
ZNF731P	58.33404806	10.00055458	0.171435978	-2.544258
GLYATL1	162.8950776	27.77931829	0.170535038	-2.55186
SNRNP48	162.8950776	27.77931829	0.170535038	-2.55186
HNRNPH1	117.7687385	20.00110917	0.169833773	-2.557805
ADH1C	327.9914401	55.55863657	0.169390508	-2.561575
C3	7161.880203	1211.178277	0.169114568	-2.563927
PLCB1	1723.606024	291.1272556	0.168905917	-2.565708
GEM	302.6766645	51.11394565	0.168873097	-2.565989
PFN1P1	178.3040714	30.00166375	0.168261238	-2.571225
H1-5	46.22698148	7.77820912	0.168261238	-2.571225
APRG1	46.22698148	7.77820912	0.168261238	-2.571225
STMN2	39.62312699	6.667036389	0.168261238	-2.571225
CERS3	39.62312699	6.667036389	0.168261238	-2.571225
HTR2A	19.81156349	3.333518194	0.168261238	-2.571225
PLAC8L1	19.81156349	3.333518194	0.168261238	-2.571225
C16orf54	19.81156349	3.333518194	0.168261238	-2.571225
ORM1	19.81156349	3.333518194	0.168261238	-2.571225
ENSG000002	19.81156349	3.333518194	0.168261238	-2.571225
EOLA2-DT	52.83083598	8.889381852	0.168261238	-2.571225
BPIFB2	33.01927249	5.555863657	0.168261238	-2.571225
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
TTC23-AS1	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
TAPT1-AS1	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
SPDYE22P	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
LINC01801	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
PNMA6B	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
INSIG1-DT	1.659653067	2.222345463	0.746802464	-0.421201
SPDYE20P	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
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ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
LINC02746	1.659653067	2.222345463	0.746802464	-0.421201
LINC02801	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
LINC02348	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
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ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
TMEM191A	1.659653067	2.222345463	0.746802464	-0.421201
ENSG000002	1.659653067	2.222345463	0.746802464	-0.421201
PRSS21	0.829826533	1.111172731	0.746802464	-0.421201
TNFRSF17	0.829826533	1.111172731	0.746802464	-0.421201
SERTAD4	0.829826533	1.111172731	0.746802464	-0.421201
UPK3A	0.829826533	1.111172731	0.746802464	-0.421201
TM9SF1	0.829826533	1.111172731	0.746802464	-0.421201
DKK4	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPL	0.829826533	1.111172731	0.746802464	-0.421201
ECM2	0.829826533	1.111172731	0.746802464	-0.421201
SNX15	0.829826533	1.111172731	0.746802464	-0.421201
ANGPTL8	0.829826533	1.111172731	0.746802464	-0.421201
EIF5A	0.829826533	1.111172731	0.746802464	-0.421201
IL36B	0.829826533	1.111172731	0.746802464	-0.421201
OR5F1	0.829826533	1.111172731	0.746802464	-0.421201
CTF1	0.829826533	1.111172731	0.746802464	-0.421201
PART1	0.829826533	1.111172731	0.746802464	-0.421201
IL24	0.829826533	1.111172731	0.746802464	-0.421201
FCRL4	0.829826533	1.111172731	0.746802464	-0.421201
FAM86FP	0.829826533	1.111172731	0.746802464	-0.421201
FMC1	0.829826533	1.111172731	0.746802464	-0.421201
AGBL2	0.829826533	1.111172731	0.746802464	-0.421201
SCN3B	0.829826533	1.111172731	0.746802464	-0.421201
POTED	0.829826533	1.111172731	0.746802464	-0.421201
FAM86GP	0.829826533	1.111172731	0.746802464	-0.421201
ANKRD33	0.829826533	1.111172731	0.746802464	-0.421201
OR2C1	0.829826533	1.111172731	0.746802464	-0.421201
RAB24	0.829826533	1.111172731	0.746802464	-0.421201
VGLL2	0.829826533	1.111172731	0.746802464	-0.421201
MZB1	0.829826533	1.111172731	0.746802464	-0.421201
XCR1	0.829826533	1.111172731	0.746802464	-0.421201
PPIAP7	0.829826533	1.111172731	0.746802464	-0.421201
OR4S2	0.829826533	1.111172731	0.746802464	-0.421201
ACER2P1	0.829826533	1.111172731	0.746802464	-0.421201
FDX1P1	0.829826533	1.111172731	0.746802464	-0.421201
COL18A1	0.829826533	1.111172731	0.746802464	-0.421201
WT1-AS	0.829826533	1.111172731	0.746802464	-0.421201
NF1P3	0.829826533	1.111172731	0.746802464	-0.421201
DSCR4	0.829826533	1.111172731	0.746802464	-0.421201
KRTAP6-1	0.829826533	1.111172731	0.746802464	-0.421201
CYCSP45	0.829826533	1.111172731	0.746802464	-0.421201
IFNE	0.829826533	1.111172731	0.746802464	-0.421201
MINAR2	0.829826533	1.111172731	0.746802464	-0.421201
GOLGA8R	0.829826533	1.111172731	0.746802464	-0.421201
DEFB132	0.829826533	1.111172731	0.746802464	-0.421201
CROCCP5	0.829826533	1.111172731	0.746802464	-0.421201
OR13F1	0.829826533	1.111172731	0.746802464	-0.421201
GOLGA6EP	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000001	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPA1P(	0.829826533	1.111172731	0.746802464	-0.421201
NUTM2G	0.829826533	1.111172731	0.746802464	-0.421201
CYP51A1-A	0.829826533	1.111172731	0.746802464	-0.421201
SHLD2P3	0.829826533	1.111172731	0.746802464	-0.421201
TRIM64B	0.829826533	1.111172731	0.746802464	-0.421201
OR14A16	0.829826533	1.111172731	0.746802464	-0.421201
GUCA2A	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000001	0.829826533	1.111172731	0.746802464	-0.421201
SCGB1D4	0.829826533	1.111172731	0.746802464	-0.421201
PABPC1P2	0.829826533	1.111172731	0.746802464	-0.421201
ABHD17AP1	0.829826533	1.111172731	0.746802464	-0.421201
LTN1	0.829826533	1.111172731	0.746802464	-0.421201
RNU1-124P	0.829826533	1.111172731	0.746802464	-0.421201
RNU4-38P	0.829826533	1.111172731	0.746802464	-0.421201
TCEA3	0.829826533	1.111172731	0.746802464	-0.421201
STK19	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02305	1.100642416	0.829826533	0.753947441	-0.407464
FKBP1BP1	1.100642416	0.829826533	0.753947441	-0.407464
SPECC1L-AI	1.100642416	0.829826533	0.753947441	-0.407464
LINC02274	1.100642416	0.829826533	0.753947441	-0.407464
SEC23A-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RBM25-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ZMYND19P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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HSPA2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
DDX18P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ALDH1A2-AS	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TPM1-AS	1.100642416	0.829826533	0.753947441	-0.407464
PIGHP1	1.100642416	0.829826533	0.753947441	-0.407464
UBE2Q2P13	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LYPD8	1.100642416	0.829826533	0.753947441	-0.407464
LINC00567	1.100642416	0.829826533	0.753947441	-0.407464
FIGNL2-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01992	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MOCS1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01917	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
E2F5-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RARRES2P7	1.100642416	0.829826533	0.753947441	-0.407464
PPIAP47	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
NUP93-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02177	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
KRT18P18	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02186	1.100642416	0.829826533	0.753947441	-0.407464
IL9RP4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPCP4	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ABHD17AP5	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RN7SL154P	1.100642416	0.829826533	0.753947441	-0.407464
DSG2-AS1	1.100642416	0.829826533	0.753947441	-0.407464
TWSG1-DT	1.100642416	0.829826533	0.753947441	-0.407464
RBP3	1.100642416	0.829826533	0.753947441	-0.407464
FEM1AP2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01476	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SLC9A3R1-A	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ZNF415P1	1.100642416	0.829826533	0.753947441	-0.407464
MIR3176	1.100642416	0.829826533	0.753947441	-0.407464
KLF14	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
COP1P1	1.100642416	0.829826533	0.753947441	-0.407464
MIR4742	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MIR5692C2	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
AKR1B1P7	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PCAT19	1.100642416	0.829826533	0.753947441	-0.407464
SCAT1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01478	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464

ACTC1	33.01927249	5.555863657	0.168261238	-2.571225
AKR1E2	33.01927249	5.555863657	0.168261238	-2.571225
LINC01128	33.01927249	5.555863657	0.168261238	-2.571225
GGNBP2	33.01927249	5.555863657	0.168261238	-2.571225
CENPP	26.41541799	4.444690926	0.168261238	-2.571225
ENSG000002	26.41541799	4.444690926	0.168261238	-2.571225
MYOT	13.207709	2.222345463	0.168261238	-2.571225
UQCR11	13.207709	2.222345463	0.168261238	-2.571225
ZNF835	13.207709	2.222345463	0.168261238	-2.571225
PKIB	13.207709	2.222345463	0.168261238	-2.571225
KLRF1	13.207709	2.222345463	0.168261238	-2.571225
ASZ1	13.207709	2.222345463	0.168261238	-2.571225
USP49	13.207709	2.222345463	0.168261238	-2.571225
TNFRSF10C	13.207709	2.222345463	0.168261238	-2.571225
ANXA2R-OT	13.207709	2.222345463	0.168261238	-2.571225
SH2D5	13.207709	2.222345463	0.168261238	-2.571225
MT-TM	13.207709	2.222345463	0.168261238	-2.571225
MIR17HG	13.207709	2.222345463	0.168261238	-2.571225
NIFK-AS1	13.207709	2.222345463	0.168261238	-2.571225
NNT-AS1	13.207709	2.222345463	0.168261238	-2.571225
CHD1-DT	13.207709	2.222345463	0.168261238	-2.571225
SERBP1P6	13.207709	2.222345463	0.168261238	-2.571225
ENSG000002	13.207709	2.222345463	0.168261238	-2.571225
ENSG000002	13.207709	2.222345463	0.168261238	-2.571225
ENSG000002	13.207709	2.222345463	0.168261238	-2.571225
TSC22D1-AS	13.207709	2.222345463	0.168261238	-2.571225
ENSG000002	13.207709	2.222345463	0.168261238	-2.571225
ENSG000002	13.207709	2.222345463	0.168261238	-2.571225
PMS2P3	13.207709	2.222345463	0.168261238	-2.571225
F7	6.603854498	1.111172731	0.168261238	-2.571225
FGL1	6.603854498	1.111172731	0.168261238	-2.571225
EREG	6.603854498	1.111172731	0.168261238	-2.571225
MARCHF4	6.603854498	1.111172731	0.168261238	-2.571225
PRODHLP	6.603854498	1.111172731	0.168261238	-2.571225
IL20	6.603854498	1.111172731	0.168261238	-2.571225
ANKRD33	6.603854498	1.111172731	0.168261238	-2.571225
ODAPH	6.603854498	1.111172731	0.168261238	-2.571225
NAP1L4P1	6.603854498	1.111172731	0.168261238	-2.571225
CAPZA3	6.603854498	1.111172731	0.168261238	-2.571225
GPHB5	6.603854498	1.111172731	0.168261238	-2.571225
OR6A2	6.603854498	1.111172731	0.168261238	-2.571225
FAM86B1	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
MT-TT	6.603854498	1.111172731	0.168261238	-2.571225
MYCBP	6.603854498	1.111172731	0.168261238	-2.571225
RPS3AP21	6.603854498	1.111172731	0.168261238	-2.571225
UHRF2P1	6.603854498	1.111172731	0.168261238	-2.571225
LGALSL-DT	6.603854498	1.111172731	0.168261238	-2.571225
PRKAR2A-A	6.603854498	1.111172731	0.168261238	-2.571225
GCSHP5	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
REV3L-IT1	6.603854498	1.111172731	0.168261238	-2.571225
TRPM2-AS	6.603854498	1.111172731	0.168261238	-2.571225
YY2	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
LINC01518	6.603854498	1.111172731	0.168261238	-2.571225
PA2G4P2	6.603854498	1.111172731	0.168261238	-2.571225
THRAP3P3	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
PITRM1-AS1	6.603854498	1.111172731	0.168261238	-2.571225
LINC01252	6.603854498	1.111172731	0.168261238	-2.571225
LINC02102	6.603854498	1.111172731	0.168261238	-2.571225
TERF1P3	6.603854498	1.111172731	0.168261238	-2.571225
LINC02882	6.603854498	1.111172731	0.168261238	-2.571225
UQCRB-AS1	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
DENND11	6.603854498	1.111172731	0.168261238	-2.571225
ZNF625	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
TBC1D22A-D	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
LINC02894	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ZNF470-DT	6.603854498	1.111172731	0.168261238	-2.571225
TLCD4-RWD	6.603854498	1.111172731	0.168261238	-2.571225
BALR6	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
LINC02335	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
TCF12-DT	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
LARRPM	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
ENSG000002	6.603854498	1.111172731	0.168261238	-2.571225
MRPS31P5	6.603854498	1.111172731	0.168261238	-2.571225
FCN1	85.85010847	14.44524551	0.168261238	-2.571225
SDC2	5245.661756	881.159976	0.167978802	-2.573649
SUSD2	425.9486151	71.11505481	0.166956887	-2.582452
ST8SIA6-AS	0.829826533	1.111172731	0.746802464	-0.421201
PCDHA7	0.829826533	1.111172731	0.746802464	-0.421201
PCDHA2	0.829826533	1.111172731	0.746802464	-0.421201
COX17P1	0.829826533	1.111172731	0.746802464	-0.421201
GOLGA2P1	0.829826533	1.111172731	0.746802464	-0.421201
LINC01597	0.829826533	1.111172731	0.746802464	-0.421201
LINC00487	0.829826533	1.111172731	0.746802464	-0.421201
TRAV39	0.829826533	1.111172731	0.746802464	-0.421201
PABPN1P1	0.829826533	1.111172731	0.746802464	-0.421201
HMGB3P6	0.829826533	1.111172731	0.746802464	-0.421201
RPS3P6	0.829826533	1.111172731	0.746802464	-0.421201
SETP22	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
PGAM1P7	0.829826533	1.111172731	0.746802464	-0.421201
MANEALP1	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPA1P	0.829826533	1.111172731	0.746802464	-0.421201
SETP21	0.829826533	1.111172731	0.746802464	-0.421201
RPS15AP1	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPA1P	0.829826533	1.111172731	0.746802464	-0.421201
RPS3AP21	0.829826533	1.111172731	0.746802464	-0.421201
HMGB1P4	0.829826533	1.111172731	0.746802464	-0.421201
TMEM14DP	0.829826533	1.111172731	0.746802464	-0.421201
NLRP2B	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
UQCRFS1P3	0.829826533	1.111172731	0.746802464	-0.421201
PRELID1P1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPA1P	0.829826533	1.111172731	0.746802464	-0.421201
NDUFS5P1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
PTPN11P3	0.829826533	1.111172731	0.746802464	-0.421201
SNORD111	0.829826533	1.111172731	0.746802464	-0.421201
MIR1302-5	0.829826533	1.111172731	0.746802464	-0.421201
MIR1271	0.829826533	1.111172731	0.746802464	-0.421201
SNORA79B	0.829826533	1.111172731	0.746802464	-0.421201
MEG9	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
SMPD4P1	0.829826533	1.111172731	0.746802464	-0.421201
LINC01342	0.829826533	1.111172731	0.746802464	-0.421201
LGALSL-DT	0.829826533	1.111172731	0.746802464	-0.421201
ZNF587P1	0.829826533	1.111172731	0.746802464	-0.421201
ANKRD30B	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
PRKAR2A-A	0.829826533	1.111172731	0.746802464	-0.421201
LINC01708	0.829826533	1.111172731	0.746802464	-0.421201
LINC00885	0.829826533	1.111172731	0.746802464	-0.421201
USP21P1	0.829826533	1.111172731	0.746802464	-0.421201
LINC01645	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
DAP3P1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
LINC01427	0.829826533	1.111172731	0.746802464	-0.421201
LHFPL3-AS2	0.829826533	1.111172731	0.746802464	-0.421201
RPL23AP18	0.829826533	1.111172731	0.746802464	-0.421201
SFTA1P	0.829826533	1.111172731	0.746802464	-0.421201
ELF2P4	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
PACRG-AS3	0.829826533	1.111172731	0.746802464	-0.421201
CROCCP1	0.829826533	1.111172731	0.746802464	-0.421201
RPL26P36	0.829826533	1.111172731	0.746802464	-0.421201
HNRNPA1P	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
LINC02909	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
CEP164P1	0.829826533	1.111172731	0.746802464	-0.421201
ALG1L5P	0.829826533	1.111172731	0.746802464	-0.421201
ST7-AS1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
NCAM1-AS1	0.829826533	1.111172731	0.746802464	-0.421201
MYO1B-AS1	0.829826533	1.111172731	0.746802464	-0.421201
ALG1L8P	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
KRT8P44	0.829826533	1.111172731	0.746802464	-0.421201
RAB11AP1	0.829826533	1.111172731	0.746802464	-0.421201
WBP11P3	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
HNF4GP1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
OR5AW1P	0.829826533	1.111172731	0.746802464	-0.421201
SREK1IP1P1	0.829826533	1.111172731	0.746802464	-0.421201
UBTFL7	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
ZBTB47-AS1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
TEX48	0.829826533	1.111172731	0.746802464	-0.421201
MRPL35P4	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
EEF1B2P1	0.829826533	1.111172731	0.746802464	-0.421201
RPL31P34	0.829826533	1.111172731	0.746802464	-0.421201
FILNC1	0.829826533	1.111172731	0.746802464	-0.421201
LARP1BP1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
ITCH-IT1	0.829826533	1.111172731	0.746802464	-0.421201
RPL36AP16	0.829826533	1.111172731	0.746802464	-0.421201
LINC02043	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02594	1.100642416	0.829826533	0.753947441	-0.407464
LINC01837	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC01533	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
SNX6P1	1.100642416	0.829826533	0.753947441	-0.407464
FMR1-AS1	1.100642416	0.829826533	0.753947441	-0.407464
ARL14EPL	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FAM156A	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
MAN1B1-DT	1.100642416	0.829826533	0.753947441	-0.407464
BNIP3P18	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
IGHV3OR16-	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
HNRNPA1P6	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
NAMA	1.100642416	0.829826533	0.753947441	-0.407464
IGHV3OR16-	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
RPL21P136	1.100642416	0.829826533	0.753947441	-0.407464
DIMT1P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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RN7SKP4	1.100642416	0.829826533	0.753947441	-0.407464
MIR98	1.100642416	0.829826533	0.753947441	-0.407464
LINC02973	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC00551	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
FAM193B-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
LINC02538	1.100642416	0.829826533	0.753947441	-0.407464
MUSTN1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
TRIM8-DT	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
PPM1B-DT	1.100642416	0.829826533	0.753947441	-0.407464
LYPD4	1.100642416	0.829826533	0.753947441	-0.407464
PACERR	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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TBC1D3K	1.100642416	0.829826533	0.753947441	-0.407464
Metazoa_SRP	1.100642416	0.829826533	0.753947441	-0.407464
BLVRBP1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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Metazoa_SRP	1.100642416	0.829826533	0.753947441	-0.407464
Y_RNA.129	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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Metazoa_SRP	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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MIR6124	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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MIR8078	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464

PIERCE2	93.55460539	15.55641824	0.166281694	-2.588299
CCDC112	482.0813783	80.00443666	0.165956289	-2.591125
CASP4	80.34689639	13.33407278	0.165956289	-2.591125
RARB	416.0428334	68.89270935	0.165590424	-2.594309
ENTPD1	416.0428334	68.89270935	0.165590424	-2.594309
PSMA3-AS1	134.2783748	22.22345463	0.165502857	-2.595072
RASL12	127.6745203	21.1122819	0.165360182	-2.596316
FOXP3	60.5353329	10.00055458	0.165201942	-2.597697
HLA-DRB5	1031.301944	170.0094279	0.164849324	-2.60078
ZNF385D	303.7773069	50.00277291	0.164603385	-2.602934
SELL	94.6552478	15.55641824	0.164348186	-2.605173
WFDC2	47.3276239	7.77820912	0.164348186	-2.605173
HMOX2	47.3276239	7.77820912	0.164348186	-2.605173
SNHG14	1103.944344	181.1211552	0.164067289	-2.60764
RHBDL2	40.7237694	6.667036389	0.163713637	-2.610754
MUC13	40.7237694	6.667036389	0.163713637	-2.610754
GLB1L3	115.5674537	18.88993643	0.163453774	-2.613045
CDC42EP3	1054.415435	172.2317734	0.163343373	-2.61402
CD34	320.2869431	52.22511838	0.163057282	-2.616549
ALDH1A2	375.319064	61.11450023	0.162833456	-2.618531
ZBED3	136.4796596	22.22345463	0.162833456	-2.618531
NEAT1	4616.094294	750.0415937	0.162484028	-2.62163
ETFRF1	267.4561072	43.33573653	0.16202934	-2.625673
SPAG17	473.276239	76.67091847	0.162000354	-2.625931
RBPMS	1661.970049	268.903801	0.161798223	-2.627732
KLRD1	27.51606041	4.444690926	0.161530788	-2.630119
AJAP1	27.51606041	4.444690926	0.161530788	-2.630119
ENSG000002	27.51606041	4.444690926	0.161530788	-2.630119
MS4A4E	165.0963624	26.66814555	0.161530788	-2.630119
CIART	130.9764475	21.1122819	0.161191438	-2.633153
RASIP1	96.85653263	15.55641824	0.160613	-2.638339
ARPIN	69.34047223	11.11172731	0.160248798	-2.641615
NR2F1-AS1	83.64882364	13.33407278	0.159405383	-2.649228
DEPDC7	41.82441182	6.667036389	0.159405383	-2.649228
PSMD7P1	41.82441182	6.667036389	0.159405383	-2.649228
ENSG000002	20.91220591	3.333518194	0.159405383	-2.649228
VEZF1P1	20.91220591	3.333518194	0.159405383	-2.649228
ENSG000002	20.91220591	3.333518194	0.159405383	-2.649228
RAC2	104.5610295	16.66759097	0.159405383	-2.649228
DKK2	104.5610295	16.66759097	0.159405383	-2.649228
TOX	202.5182046	32.22400921	0.159116605	-2.651844
TMEM176A	118.869381	18.88993643	0.158913391	-2.653687
CD74	12002.50555	1905.661234	0.158771952	-2.654972
PERCC1	77.04496914	12.22290005	0.15864631	-2.656114
LINC01138	56.13276323	8.889381852	0.158363518	-2.658688
ABCA13	35.22055732	5.555863657	0.15774491	-2.664335
H2BC7	753.9400552	118.8954823	0.157698853	-2.664756
TLR7	225.6316953	35.55752741	0.157591013	-2.665743
RASGRP1	190.411138	30.00166375	0.157562546	-2.666003
CBS	134.2783748	21.1122819	0.157227714	-2.669073
C4orf46	49.52890873	7.77820912	0.157043822	-2.670761
ENSG000002	49.52890873	7.77820912	0.157043822	-2.670761
RIPK2-DT	162.8950776	25.55697282	0.156892235	-2.672154
TESPA1	141.9828717	22.22345463	0.156522082	-2.675562
GIMAP4	270.7580344	42.22456379	0.15594944	-2.68085
CFTR	285.0663858	44.44690926	0.155917749	-2.681143
ABCC4	4496.124271	698.9276481	0.155451141	-2.685467
FLNC	3590.295562	557.8087112	0.15536568	-2.68626
PALLD	3640.925113	565.5869203	0.155341542	-2.686484
PTGES	28.61670282	4.444690926	0.155318066	-2.686702
ENSG000001	14.30835141	2.222345463	0.155318066	-2.686702
SHISAL2A	14.30835141	2.222345463	0.155318066	-2.686702
C20orf203	14.30835141	2.222345463	0.155318066	-2.686702
MICA	14.30835141	2.222345463	0.155318066	-2.686702
TRAV12-1	14.30835141	2.222345463	0.155318066	-2.686702
TRAJ35	14.30835141	2.222345463	0.155318066	-2.686702
FAM66C	14.30835141	2.222345463	0.155318066	-2.686702
PPP1CB-DT	14.30835141	2.222345463	0.155318066	-2.686702
MIR4500HG	14.30835141	2.222345463	0.155318066	-2.686702
CYP2U1-AS1	14.30835141	2.222345463	0.155318066	-2.686702
ATP1B1P1	14.30835141	2.222345463	0.155318066	-2.686702
MINCR	14.30835141	2.222345463	0.155318066	-2.686702
ITGB3	14.30835141	2.222345463	0.155318066	-2.686702
CHMP1B2P	14.30835141	2.222345463	0.155318066	-2.686702
ENSG000002	14.30835141	2.222345463	0.155318066	-2.686702
MSANTD7	71.54175706	11.11172731	0.155318066	-2.686702
ZNF532	5386.543985	835.601894	0.155127647	-2.688472
COL8A1	1325.173469	205.5669553	0.155124563	-2.688501
CCDC122	308.1798766	47.78042745	0.155040712	-2.689281
ACP5	193.7130653	30.00166375	0.154876821	-2.690807
IFI16	1338.381178	206.678128	0.154423965	-2.695031
COL26A1	79.24625397	12.22290005	0.154239468	-2.696756
CLEC2B	223.4304105	34.44635467	0.154170395	-2.697402
CEACAM1	591.0449776	91.11616398	0.154161134	-2.697489
HOXA3	354.406858	54.44746384	0.153629826	-2.70247
SPATA17	238.8394043	36.66870014	0.153528687	-2.70342
RPS2	36.32119974	5.555863657	0.152964762	-2.708729
FERMT1	291.6702403	44.44690926	0.152387536	-2.714183
MFAP4	1710.398315	260.0144192	0.152019805	-2.717669
APOBEC3F	102.3597447	15.55641824	0.151977892	-2.718067
GABRE	329.0920825	50.00277291	0.151941586	-2.718411
HOXB2	124.372593	18.88993643	0.151881825	-2.718979
HEG1	2104.4283	318.9065739	0.151540717	-2.722223
SLC16A7	110.0642416	16.66759097	0.151435114	-2.723228
RNF187	88.0513933	13.33407278	0.151435114	-2.723228
DLX3	44.02569665	6.667036389	0.151435114	-2.723228
C1RL	22.01284833	3.333518194	0.151435114	-2.723228
ZNF747	22.01284833	3.333518194	0.151435114	-2.723228
TMEM121	22.01284833	3.333518194	0.151435114	-2.723228
ENSG000001	22.01284833	3.333518194	0.151435114	-2.723228
RPL12P20	22.01284833	3.333518194	0.151435114	-2.723228
GSTO3P	0.829826533	1.111172731	0.746802464	-0.421201
RAB1C	0.829826533	1.111172731	0.746802464	-0.421201
ARHGEF4-A	0.829826533	1.111172731	0.746802464	-0.421201
PDXP-DT	0.829826533	1.111172731	0.746802464	-0.421201
KRT8P15	0.829826533	1.111172731	0.746802464	-0.421201
SRP14P2	0.829826533	1.111172731	0.746802464	-0.421201
NAP1L4P3	0.829826533	1.111172731	0.746802464	-0.421201
CT66	0.829826533	1.111172731	0.746802464	-0.421201
RPS26P47	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
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PRUNEP1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000000	0.829826533	1.111172731	0.746802464	-0.421201
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ANAPC1P6	0.829826533	1.111172731	0.746802464	-0.421201
HEBP2P1	0.829826533	1.111172731	0.746802464	-0.421201
ST13P2	0.829826533	1.111172731	0.746802464	-0.421201
LINC00484	0.829826533	1.111172731	0.746802464	-0.421201
LDHAP2	0.829826533	1.111172731	0.746802464	-0.421201
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RPL6P1	0.829826533	1.111172731	0.746802464	-0.421201
ENOPH1P1	0.829826533	1.111172731	0.746802464	-0.421201
CCDC200	0.829826533	1.111172731	0.746802464	-0.421201
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HUNK-AS1	0.829826533	1.111172731	0.746802464	-0.421201
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UQCRHP2	0.829826533	1.111172731	0.746802464	-0.421201
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WBP1LP2	0.829826533	1.111172731	0.746802464	-0.421201
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CIR1P1	0.829826533	1.111172731	0.746802464	-0.421201
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COX6B1P6	0.829826533	1.111172731	0.746802464	-0.421201
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GASAL1	0.829826533	1.111172731	0.746802464	-0.421201
IGHEP1	0.829826533	1.111172731	0.746802464	-0.421201
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MTND1P5	0.829826533	1.111172731	0.746802464	-0.421201
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ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
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ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
PDE3A-AS1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002	1.100642416	0.829826533	0.753947441	-0.407464
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ZBTB2P1	1.100642416	0.829826533	0.753947441	-0.407464
ENSG000002

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ODF3B	169.4989321	25.55697282	0.150779551	-2.729487
FAM120B	81.44753881	12.22290005	0.150070834	-2.736284
CYP1B1-AS1	59.43469048	8.889381852	0.149565545	-2.74115
ENSG000002	29.71734524	4.444690926	0.149565545	-2.74115
ANPEP	2896.89084	432.2461925	0.149210383	-2.74458
KLK3	13130.66403	1957.886353	0.149107947	-2.745571
CENPF	462.2698148	68.89270935	0.149031382	-2.746312
ENSG000002	104.5610295	15.55641824	0.148778358	-2.748763
OAS2	141.9828717	21.1122819	0.148695978	-2.749562
SHC3	224.5310529	33.33518194	0.148465798	-2.751797
MS4A1	37.42184215	5.555863657	0.148465798	-2.751797
STAC3	45.12633907	6.667036389	0.147741575	-2.758852
THBS2	2939.815894	433.3573653	0.147409695	-2.762097
TGFB2	538.2141416	78.89326393	0.14658341	-2.770206
APOL3	447.9614634	65.55919115	0.146350069	-2.772505
CGAS	75.94432672	11.11172731	0.14631412	-2.772859
VILL	83.64882364	12.22290005	0.146121601	-2.774759
ASPM	631.768747	92.22733671	0.145982746	-2.77613
GALNT5	91.35332055	13.33407278	0.145961556	-2.77634
ERG	281.7644586	41.11339106	0.145914042	-2.776809
LINC02984	228.9336226	33.33518194	0.145610686	-2.779812
LMO7	1339.481821	194.455228	0.14517198	-2.784165
PPP1R3C	183.8072835	26.66814555	0.145087534	-2.785005
KCNQ1OT1	575.6359837	83.33795486	0.144775444	-2.788111
CHN2	161.7944352	23.33462736	0.144223918	-2.793618
ZBP1	46.22698148	6.667036389	0.144223918	-2.793618
IL23R	23.11349074	3.333518194	0.144223918	-2.793618
RPS6KL1	23.11349074	3.333518194	0.144223918	-2.793618
DLEU2	23.11349074	3.333518194	0.144223918	-2.793618
AJUBA-DT	23.11349074	3.333518194	0.144223918	-2.793618
AGAP14P	84.74946605	12.22290005	0.144223918	-2.793618
PRSS22	38.52248457	5.555863657	0.144223918	-2.793618
SCIMP	38.52248457	5.555863657	0.144223918	-2.793618
CBLC	123.2719506	17.7787637	0.144223918	-2.793618
KCNN4	30.81798766	4.444690926	0.144223918	-2.793618
CHROMR	30.81798766	4.444690926	0.144223918	-2.793618
ZNF710-AS1	30.81798766	4.444690926	0.144223918	-2.793618
GSDMD	15.40899383	2.222345463	0.144223918	-2.793618
PPP1R14BP3	15.40899383	2.222345463	0.144223918	-2.793618
SMIM10	15.40899383	2.222345463	0.144223918	-2.793618
BZW1P2	15.40899383	2.222345463	0.144223918	-2.793618
LINC00630	15.40899383	2.222345463	0.144223918	-2.793618
RPL23AP7	15.40899383	2.222345463	0.144223918	-2.793618
SNRPCP2	15.40899383	2.222345463	0.144223918	-2.793618
DYNLRB2-A	15.40899383	2.222345463	0.144223918	-2.793618
ENSG000002	15.40899383	2.222345463	0.144223918	-2.793618
ZNNT1	15.40899383	2.222345463	0.144223918	-2.793618
RHEX	15.40899383	2.222345463	0.144223918	-2.793618
RUNDC3A-A	15.40899383	2.222345463	0.144223918	-2.793618
ENSG000002	15.40899383	2.222345463	0.144223918	-2.793618
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ZC3H11A	7.704496914	1.111172731	0.144223918	-2.793618
CABP5	7.704496914	1.111172731	0.144223918	-2.793618
RUNDC3B	7.704496914	1.111172731	0.144223918	-2.793618
IRGC	7.704496914	1.111172731	0.144223918	-2.793618
NEDD8	7.704496914	1.111172731	0.144223918	-2.793618
GOLGA7B	7.704496914	1.111172731	0.144223918	-2.793618
GARIN4	7.704496914	1.111172731	0.144223918	-2.793618
BORCS7	7.704496914	1.111172731	0.144223918	-2.793618
ONECUT1	7.704496914	1.111172731	0.144223918	-2.793618
XCR1	7.704496914	1.111172731	0.144223918	-2.793618
WDFY3-AS2	7.704496914	1.111172731	0.144223918	-2.793618
GTF2IRD2	7.704496914	1.111172731	0.144223918	-2.793618
ZNF849P	7.704496914	1.111172731	0.144223918	-2.793618
BVES-AS1	7.704496914	1.111172731	0.144223918	-2.793618
GPRIN2	7.704496914	1.111172731	0.144223918	-2.793618
ST8SIA6-AS1	7.704496914	1.111172731	0.144223918	-2.793618
USP17L6P	7.704496914	1.111172731	0.144223918	-2.793618
ANAPC10P1	7.704496914	1.111172731	0.144223918	-2.793618
ST7-OT4	7.704496914	1.111172731	0.144223918	-2.793618
SMIM30	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
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LCT-AS1	7.704496914	1.111172731	0.144223918	-2.793618
FRMD3-AS1	7.704496914	1.111172731	0.144223918	-2.793618
RPL37P18	7.704496914	1.111172731	0.144223918	-2.793618
ATXN1-AS1	7.704496914	1.111172731	0.144223918	-2.793618
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TTLL7-IT1	7.704496914	1.111172731	0.144223918	-2.793618
ZNF101P2	7.704496914	1.111172731	0.144223918	-2.793618
LINC01934	7.704496914	1.111172731	0.144223918	-2.793618
PITPNA-AS1	7.704496914	1.111172731	0.144223918	-2.793618
CTAGE9	7.704496914	1.111172731	0.144223918	-2.793618
RNU7-119P	7.704496914	1.111172731	0.144223918	-2.793618
CDRT4	7.704496914	1.111172731	0.144223918	-2.793618
PPATP1	7.704496914	1.111172731	0.144223918	-2.793618
ST13P15	7.704496914	1.111172731	0.144223918	-2.793618
UGT1A7	7.704496914	1.111172731	0.144223918	-2.793618
SEC24B-AS1	7.704496914	1.111172731	0.144223918	-2.793618
MTND6P4	7.704496914	1.111172731	0.144223918	-2.793618
ZNF252P-AS	7.704496914	1.111172731	0.144223918	-2.793618
AQP4-AS1	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
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GOLGA6L7	0.829826533	1.111172731	0.746802464	-0.421201
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DSG2-AS1	0.829826533	1.111172731	0.746802464	-0.421201
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MIX23P3	0.829826533	1.111172731	0.746802464	-0.421201
KC6	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002	0.829826533	1.111172731	0.746802464	-0.421201
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OR7E16P	0.829826533	1.111172731	0.746802464	-0.421201
FAM156A	0.829826533	1.111172731	0.746802464	-0.421201
MRPS17P1	0.829826533	1.111172731	0.746802464	-0.421201
ENSG000002

ADIRF-AS1	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
MIR223HG	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
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ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
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CA5BP1.1	7.704496914	1.111172731	0.144223918	-2.793618
ENSG000002	7.704496914	1.111172731	0.144223918	-2.793618
AEBP1	6726.025806	964.4979309	0.143397893	-2.801904
SMS	4470.809495	640.0354933	0.143158749	-2.804312
CD59	116.6680961	16.66759097	0.142863315	-2.807293
SGCA	116.6680961	16.66759097	0.142863315	-2.807293
LGALS8	1517.785892	216.6786826	0.142759716	-2.808339
NXPH3	242.1413316	34.44635467	0.142257228	-2.813426
SLC8A1	1530.993601	217.7898554	0.142253929	-2.81346
SNORD17	250.9464709	35.55752741	0.141693674	-2.819153
AOC3	353.3062156	50.00277291	0.141528144	-2.820839
INPP4B	4157.126406	587.8103749	0.141398244	-2.822164
CSDC2	47.3276239	6.667036389	0.140869873	-2.827565
ACRP1	189.3104956	26.66814555	0.140869873	-2.827565
NDNF	2353.173486	331.129474	0.140716133	-2.82914
DNAJA4	489.7858753	68.89270935	0.140658832	-2.829728
FREM2	506.2955115	71.11505481	0.140461555	-2.831753
ART4	39.62312699	5.555863657	0.140217698	-2.83426
CARMIL2	39.62312699	5.555863657	0.140217698	-2.83426
PTGIS	397.3319123	55.55863657	0.139829283	-2.838262
GINS1	71.54175706	10.00055458	0.139786259	-2.838706
PRR16	95.75589022	13.33407278	0.139250679	-2.844244
NIPBL-DT	63.83726015	8.889381852	0.139250679	-2.844244
CSTA	31.91863007	4.444690926	0.139250679	-2.844244
IQCH-AS1	31.91863007	4.444690926	0.139250679	-2.844244
THBS4	742.933631	103.339064	0.139095957	-2.845848
FLII	384.1242033	53.33629111	0.13885168	-2.848383
ENTREP1	472.1755966	65.55919115	0.138844937	-2.848454
PTTG1	88.0513933	12.22290005	0.138815521	-2.848759
HOXB3	449.0621058	62.22567296	0.138568078	-2.851333
GZMA	56.13276323	7.77820912	0.138568078	-2.851333
BRIP1	160.6937928	22.22345463	0.138296908	-2.854159
CDH10	128.7751627	17.7787637	0.138060503	-2.856627
FYB1	1186.492525	163.3423915	0.137668285	-2.860732
GUCY1A2	242.1413316	33.33518194	0.137668285	-2.860732
CASP8AP2	24.21413316	3.333518194	0.137668285	-2.860732
PLD4	24.21413316	3.333518194	0.137668285	-2.860732
ENSG000002	24.21413316	3.333518194	0.137668285	-2.860732
EFNB2	2315.751644	317.7954012	0.137232074	-2.86531
JAZF1	356.6081429	48.89160018	0.137101749	-2.866681
ENSG000002	89.15203572	12.22290005	0.137101749	-2.866681
NORAD	932.2441266	127.7848641	0.137072319	-2.866991
OR51F2	146.3854414	20.00110917	0.136633186	-2.87162
GARS1-DT	187.1092108	25.55697282	0.136588534	-2.872092
VCAN	3727.875864	508.917111	0.136516646	-2.872851
PABPN1	40.7237694	5.555863657	0.136428031	-2.873788
MCPH1	40.7237694	5.555863657	0.136428031	-2.873788
CXCR3	40.7237694	5.555863657	0.136428031	-2.873788
ZNF561-AS1	40.7237694	5.555863657	0.136428031	-2.873788
KIF14	122.1713082	16.66759097	0.136428031	-2.873788
PI15	807.8715336	110.0061004	0.136167814	-2.876542
ALDH1A1	979.5717505	133.3407278	0.136121451	-2.877034
COL12A1	13808.65975	1878.993089	0.136073531	-2.877542
MS4A2	114.4668113	15.55641824	0.135903307	-2.879348
MT1E	180.5053563	24.44580009	0.135429777	-2.884383
SYNPO2	6556.526874	887.8270124	0.135411176	-2.884581
ZNF107	377.5203488	51.11394565	0.135393882	-2.884766
CCDC8	106.7623144	14.44524551	0.135302851	-2.885736
LMCD1	429.2505424	57.78098203	0.13460899	-2.893153
DANT2	33.01927249	4.444690926	0.13460899	-2.893153
COX10-DT	33.01927249	4.444690926	0.13460899	-2.893153
NUF2	16.50963624	2.222345463	0.13460899	-2.893153
ENSG000002	16.50963624	2.222345463	0.13460899	-2.893153
EMC1-AS1	16.50963624	2.222345463	0.13460899	-2.893153
NANOGP5	16.50963624	2.222345463	0.13460899	-2.893153
NSRP1P1	16.50963624	2.222345463	0.13460899	-2.893153
CCNL2P1	16.50963624	2.222345463	0.13460899	-2.893153
ENSG000002	16.50963624	2.222345463	0.13460899	-2.893153
ENSG000002	16.50963624	2.222345463	0.13460899	-2.893153
SNORA22	49.52890873	6.667036389	0.13460899	-2.893153
GNAZ	398.4325547	53.33629111	0.133865294	-2.901146
NME1	91.35332055	12.22290005	0.133798093	-2.901871
TIMM10B	74.84368431	10.00055458	0.133619218	-2.903801
PDZRN4	208.0214167	27.77931829	0.133540665	-2.904649
KIF11	116.6680961	15.55641824	0.133339094	-2.906828
CD5	58.33404806	7.77820912	0.133339094	-2.906828
CHASERR	141.9828717	18.88993643	0.133043769	-2.910027
HNRNPH1P1	41.82441182	5.555863657	0.132837819	-2.912262
SNHG29	125.4732355	16.66759097	0.132837819	-2.912262
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NOX4	184.9079259	24.44580009	0.132205258	-2.919149
MIRLET7A11	50.62955115	6.667036389	0.131682708	-2.924862
H2BC3	50.62955115	6.667036389	0.131682708	-2.924862
FXYD6	25.31477557	3.333518194	0.131682708	-2.924862
LINC01004	25.31477557	3.333518194	0.131682708	-2.924862
ENSG000002	25.31477557	3.333518194	0.131682708	-2.924862
IL10RB	25.31477557	3.333518194	0.131682708	-2.924862
ANO9	84.74946605	11.11172731	0.131112653	-2.931121
KRT17	255.3490406	33.33518194	0.130547512	-2.937353
ENSG000002	68.23982981	8.889381852	0.130266765	-2.940459
FRG1KP	0.829826533	1.111172731	0.746802464	-0.421201
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JAKMIP2-AS	0.829826533	1.111172731	0.746802464	-0.421201
ARRDC3-AS	0.829826533	1.111172731	0.746802464	-0.421201
PGR-AS1	0.829826533	1.111172731	0.746802464	-0.421201
PCBP2-OT1	0.829826533	1.111172731	0.746802464	-0.421201
CDC27P3	0.829826533	1.111172731	0.746802464	-0.421201
HSFX4	0.829826533	1.111172731	0.746802464	-0.421201
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PCAT1	34.11991491	4.444690926	0.130266765	-2.940459
SEMA3A	188.2098532	24.44580009	0.129885868	-2.944684
GAS5	77.04496914	10.00055458	0.129801526	-2.945621
GNAO1	162.8950776	21.1122819	0.129606629	-2.947789
POTEJ	162.8950776	21.1122819	0.129606629	-2.947789
UCHL3	42.92505424	5.555863657	0.129431721	-2.949737
KBTBD8	42.92505424	5.555863657	0.129431721	-2.949737
GDF7	60.5353329	7.77820912	0.1284904	-2.960268
NUTM2A-AS	60.5353329	7.77820912	0.1284904	-2.960268
SLC6A14	60.5353329	7.77820912	0.1284904	-2.960268
ASB5	95.75589022	12.22290005	0.127646456	-2.969775
RPS26	733.0278493	93.33850944	0.127332829	-2.973324
TENM1	890.4197148	113.3396186	0.127287858	-2.973833
ANKFN1	175.0021442	22.22345463	0.126989613	-2.977218
SEC14L2	192.6124229	24.44580009	0.126917048	-2.978042
ERAP2	1271.241991	161.1200461	0.126742231	-2.980031
TNFAIP8	315.8843735	40.00221833	0.126635635	-2.981245
EMILIN1	851.8972302	107.7837549	0.126522016	-2.98254
CD302	52.83083598	6.667036389	0.126195928	-2.986263
NSF	44.02569665	5.555863657	0.126195928	-2.986263
TASL	35.22055732	4.444690926	0.126195928	-2.986263
XRCC3	26.41541799	3.333518194	0.126195928	-2.986263
ST8SIA2	26.41541799	3.333518194	0.126195928	-2.986263
BNC1	26.41541799	3.333518194	0.126195928	-2.986263
ZFAS1	26.41541799	3.333518194	0.126195928	-2.986263
BTLA	26.41541799	3.333518194	0.126195928	-2.986263
SERPINB5	26.41541799	3.333518194	0.126195928	-2.986263
ENSG000002	26.41541799	3.333518194	0.126195928	-2.986263
PARK7P1	26.41541799	3.333518194	0.126195928	-2.986263
PRC1-AS1	26.41541799	3.333518194	0.126195928	-2.986263
NEIL3	17.61027866	2.222345463	0.126195928	-2.986263
ESCO2	17.61027866	2.222345463	0.126195928	-2.986263
GJB5	17.61027866	2.222345463	0.126195928	-2.986263
ZNF724	17.61027866	2.222345463	0.126195928	-2.986263
CFAP99	17.61027866	2.222345463	0.126195928	-2.986263
CAMSAP1-D	17.61027866	2.222345463	0.126195928	-2.986263
TMEM220-A	17.61027866	2.222345463	0.126195928	-2.986263
ENSG000002	17.61027866	2.222345463	0.126195928	-2.986263
LHX5	8.80513933	1.111172731	0.126195928	-2.986263
APOA5	8.80513933	1.111172731	0.126195928	-2.986263
SULT4A1	8.80513933	1.111172731	0.126195928	-2.986263
CTF1	8.80513933	1.111172731	0.126195928	-2.986263
TNFRSF13C	8.80513933	1.111172731	0.126195928	-2.986263
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REC114	8.80513933	1.111172731	0.126195928	-2.986263
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HS6ST1P1	8.80513933	1.111172731	0.126195928	-2.986263
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SHLD2P3	8.80513933	1.111172731	0.126195928	-2.986263
ZFP92	8.80513933	1.111172731	0.126195928	-2.986263
RPL21P28	8.80513933	1.111172731	0.126195928	-2.986263
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MEG8	8.80513933	1.111172731	0.126195928	-2.986263
ATE1OSP	8.80513933	1.111172731	0.126195928	-2.986263
SDAD1P2	8.80513933	1.111172731	0.126195928	-2.986263
SRD5A1P1	8.80513933	1.111172731	0.126195928	-2.986263
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UGDH-AS1	8.80513933	1.111172731	0.126195928	-2.986263
HS3ST5	8.80513933	1.111172731	0.126195928	-2.986263
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ARHGAP5-A	8.80513933	1.111172731	0.126195928	-2.986263
DCAF13P3	8.80513933	1.111172731	0.126195928	-2.986263
TRMT61A-D	8.80513933	1.111172731	0.126195928	-2.986263
DLGAP1-AS2	8.80513933	1.111172731	0.126195928	-2.986263
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AARSD1	8.80513933	1.111172731	0.126195928	-2.986263
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PAXIP1-DT	8.80513933	1.111172731	0.126195928	-2.986263
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NKILA	8.80513933	1.111172731	0.126195928	-2.986263
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LINC00506	8.80513933	1.111172731	0.126195928	-2.986263
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PGM5P2	8.80513933	1.111172731	0.126195928	-2.986263
LINC03006	8.80513933	1.111172731	0.126195928	-2.986263
CYP2B7P	8.80513933	1.111172731	0.126195928	-2.986263
MX2	231.1349074	28.89049102	0.124994062	-3.000069
PRRX1	533.8115719	66.67036389	0.124894939	-3.001213
AQP3	1151.271967	143.3412824	0.124506881	-3.005703
ALOX15B	715.4175706	88.89381852	0.124254452	-3.008631
POTEM	71.54175706	8.889381852	0.124254452	-3.008631
ERP27	483.1820208	60.0033275	0.124183693	-3.009452
FHL2	439.1563241	54.44746384	0.123981965	-3.011798
ZNF519	152.9892959	18.88993643	0.123472275	-3.017741
LINC-PINT	135.3790172	16.66759097	0.123117979	-3.021887
KLF13	90.25267814	11.11172731	0.123117979	-3.021887
RBM44	45.12633907	5.555863657	0.123117979	-3.021887
MAGI2-AS3	81.44753881	10.00055458	0.122785228	-3.025791
TSPAN2	117.7687385	14.44524551	0.122657725	-3.02729
DAP3	624.8593796	843.3801032	0.740898887	-0.432651
NR1H3	102.8984901	138.8965914	0.740828044	-0.432789
RSPH1	96.25987787	130.0072096	0.740419537	-0.433585
PLSCR1	96.25987787	130.0072096	0.740419537	-0.433585
TPM1	919.447799	1242.291114	0.740122656	-0.434164
CANT1	915.2986663	1236.73525	0.740092648	-0.434222
KLHL20	273.842756	370.0205196	0.740074514	-0.434258
ULK4	452.2554607	611.1450023	0.74001335	-0.434377
TEP1	90.45109214	122.2290005	0.74001335	-0.434377
GAS8	90.45109214	122.2290005	0.74001335	-0.434377
RGPD3	86.30195947	116.6731368	0.739690059	-0.435007
SPRY2	82.98265334	112.2284459	0.73940838	-0.435557
RNF146	238.9900416	323.3512648	0.739103469	-0.436152
RSBN1L	373.42194	505.5835928	0.738595843	-0.437143
PIK3C2B	737.7157882	998.9442856	0.738495428	-0.437339
SLCO2A1	146.8792964	198.8999189	0.738458302	-0.437412
ETV4	137.7512045	186.6770189	0.737911958	-0.438479
SWI5	204.1373272	276.6820101	0.737804844	-0.438689
TBC1D25	127.7932861	173.3429461	0.737228073	-0.439817
SLC7A6OS	63.06681654	85.56030032	0.73710373	-0.44006
KIF1C	1351.787423	1834.54618	0.736851129	-0.440555
ARFRP1	184.2214904	250.0138646	0.736845097	-0.440567
FLRT3	236.500562	321.1289194	0.736466097	-0.441309
SFRP2	175.0933985	237.7909645	0.73633327	-0.441569
RPL10	1623.140699	2204.566699	0.736262913	-0.441707
ADAMTS12	57.2580308	77.7820912	0.736133857	-0.44196
PES1	285.4603275	387.7992833	0.736103288	-0.44202
C2CD2L	110.3669289	150.0083187	0.735738723	-0.442735
SERINC1	1208.227433	1642.313297	0.735686324	-0.442837
NAT9	109.5371024	148.897146	0.735656158	-0.442896
ZNF646	601.6242367	817.8231303	0.735641014	-0.442926
SRSF2	2087.843558	2839.046329	0.735403131	-0.443393
MOB3A	214.0952456	291.1272556	0.735400899	-0.443397
MPHOSPH8	371.7622869	505.5835928	0.735313195	-0.443569
TLK2P1	53.10889814	72.22622754	0.735313195	-0.443569
EIF6	369.2728073	502.2500746	0.735236939	-0.443719
MECP2	1106.988596	1505.639051	0.735228403	-0.443736
ZNF592	774.2281556	1053.391749	0.734985969	-0.444211
RABL6	663.0314002	902.2722579	0.734846267	-0.444486
KHNYN	508.683665	692.2606117	0.734815265	-0.444546
DUSP3	405.7851748	552.2528475	0.734781498	-0.444613
PKP4	2375.793365	3233.512648	0.734740706	-0.444693
NUP93	437.3185831	595.5885841	0.73426287	-0.445631
ZDHHC12	291.2691132	396.6886651	0.734251162	-0.445654
RPS19BP1	144.3898168	196.6775735	0.734144795	-0.445863
DIP2B	1172.544892	1597.866388	0.733819111	-0.446504
AKT1S1	281.3111948	383.3545923	0.733814595	-0.446512
BLTP2	5710.036376	7787.098502	0.7332688	-0.447586
CAMKMT	178.4127047	243.3468282	0.733162236	-0.447796
ZSCAN30	133.6020719	182.232328	0.733141443	-0.447837
ZNF490	177.5828781	242.2356555	0.733099666	-0.447919
RELCH	698.7139411	953.3862036	0.732876077	-0.448359
ACO2	854.7213294	1166.731368	0.732577655	-0.448946
ZNF420	256.4163988	350.0194104	0.732577655	-0.448946
OGT	5753.187356	7853.768866	0.73253841	-0.449024
DDAH1	1315.275055	1795.655134	0.732476426	-0.449146
RFTN2	83.81247987	114.4507913	0.732301445	-0.44949
CNNM1	40.66150013	55.55863657	0.731866414	-0.450348
ADCK2	121.9845004	166.6759097	0.731866414	-0.450348
ZFPL1	400.8062156	547.8081566	0.731654341	-0.450766
GPX1	199.9881945	273.3484919	0.731623552	-0.450827
MSRB2	157.6670413	215.5675099	0.731404475	-0.451259
PLCB4	1123.585126	1536.751888	0.731142831	-0.451775
EXTL3	463.8730322	634.4796297	0.731107841	-0.451844
LRP8	347.6973175	475.5819291	0.731098674	-0.451862
RFFL	192.5197557	263.3479374	0.731047137	-0.451964
IGBP1	302.8866847	414.4674288	0.730785253	-0.452481
EP400	4177.346769	5718.094876	0.730548698	-0.452948
KDM4B	775.8878087	1062.281131	0.730397807	-0.453246
RAI1	2194.061354	3005.722239	0.729961447	-0.454108
PPP1R21	609.922502	835.601894	0.729919961	-0.45419
MAP4K3	1131.053565	1550.08596	0.729671511	-0.454681
NFATC1	246.4584804	337.7965104	0.729606354	-0.45481
TVP23B	386.6991645	530.0293929	0.729580604	-0.454861
NBEAL1	2575.78156	3531.306941	0.729413105	-0.455192
LDLRAD3	136.921378	187.7881916	0.729126666	-0.455759
USP11	2320.194987	3182.398703	0.72907112	-0.455869
DOK1	68.04577574	93.33850944	0.729021453	-0.455967
MRPL2	34.02288787	46.66925472	0.729021453	-0.455967
KATNAL2	34.02288787	46.66925472	0.729021453	-0.455967
STAT5B	540.2170732	741.1522119	0.728888162	-0.456231
YDJC	101.2388371	138.8965914	0.728879205	-0.456248
RNF19A	3145.872388	4316.906062	0.728733112	-0.456538
DZIP3	668.8401859	917.8286762	0.72872008	-0.456563
FGFR2	590.8364918	811.1560939	0.728388156	-0.457221
HARS1	254.7567457	350.0194104	0.727836052	-0.458315
THAP8	95.43005134	131.1183823	0.72781596	-0.458354
MAGED1	1843.874557	2533.473828	0.727804857	-0.458376
GAS7	94.6002248	130.0072096	0.727653683	-0.458676
HARS2	188.3706231	258.9032464	0.727571499	-0.458839
CTSL	1092.051718	1501.19436	0.72745525	-0.45907
PATZ1	494.5766139	680.0377116	0.727278216	-0.459421
NAP1L2	239.8198681	330.0183012	0.726686572	-0.460595
MTR	786.6755536	1083.393413	0.72612178	-0.461717
RRBP1	2823.069867	3887.993387	0.726099452	-0.461761
KCNIP2	29.04392867	40.00221833	0.726057951	-0.461843
CDK10	231.5216028	318.9065739	0.72598567	-0.461987
DDX28	114.5160616	157.7865279	0.725765775	-0.462424
KCTD21	55.59837774	76.67091847	0.725156015	-0.463637
ZNF573	221.5636844	305.5725011	0.725077301	-0.463793
P2RY13	27.3842756	37.77987287	0.724837685	-0.46427
PRICKLE3	289.4689555	214.0952456	0.73961384	-0.435156
GPATCH2	1557.409019	1151.799228	0.739561165	-0.435259
FBXL4	576.7366261	426.5308382	0.739559131	-0.435263
KMT2B	2109.931512	1560.073883	0.739395508	-0.435582
RUNDC1	505.1948691	373.42194	0.739164158	-0.436033
NHLRC1	56.13276323	41.49132667	0.739164158	-0.436033
DAZAP2	1330.676681	983.344442	0.738980743	-0.436391
TRMT61A	110.0642416	81.32300027	0.738868492	-0.43661
SLC35D2	52.83083598	39.00184707	0.738240203	-0.437838
RIOX2	526.107075	388.3588176	0.738174482	-0.437966
PRR15L	260.8522527	192.5197557	0.738041377	-0.438226
TATDN3	204.7194894	151.0284291	0.737733518	-0.438828
RELA	1023.597447	755.1421454	0.737733518	-0.438828
FOXO3	607.5546138	448.106328	0.737557279	-0.439173
ZNF292	4401.469023	3245.451572	0.73735645	-0.439566
ZFPL1	543.7173537	400.8062156	0.737159138	-0.439952
MAPKAPK5	689.0021526	507.8538384	0.737085997	-0.440095
ACADVL	1659.768764	1223.16431	0.736948626	-0.440364
MFSD5	146.3854414	107.8774493	0.736941108	-0.440379
ENPP5	730.8265644	538.5574202	0.736915496	-0.440429
ANKRD50	12081.7518	8903.208876	0.736913737	-0.440432
CAMKMT	242.1413316	178.4127047	0.736812272	-0.440631
POC5	242.1413316	178.4127047	0.736812272	-0.440631
MDM4	2697.674562	1987.434547	0.736721388	-0.440809
FARP1	1819.361914	1340.169851	0.736615316	-0.441017
NQO2	333.4946521	245.6286539	0.736529513	-0.441185
ZMYM2	3856.651027	2840.496224	0.736518862	-0.441206
ATXN1L	571.2334141	420.7220524	0.73651513	-0.441213
ZNF595	427.0492575	314.5042561	0.73645897	-0.441323
USP47	2203.486117	1622.310873	0.736247376	-0.441738
ADCY10	46.22698148	34.02288787	0.735996312	-0.44223
KLHDC8B	46.22698148	34.02288787	0.735996312	-0.44223
DZIP1	692.3040799	509.5134915	0.735967772	-0.442286
CSNK1G2	598.7494745	440.6378892	0.735930315	-0.442359
TRIP4	320.2869431	235.6707355	0.735811248	-0.442592
ZMYM6	410.5396213	302.0568581	0.73575568	-0.442701
THY1	452.3640331	332.7604399	0.735603221	-0.443
EIF3G	674.6938012	496.236267	0.735498483	-0.443206
USPL1	671.3918739	493.7467874	0.73540775	-0.443384
KDM3B	2089.019306	1536.008913	0.73527751	-0.443639
KIAA1191	665.8886619	489.5976547	0.735254529	-0.443684
EZH1	1197.498949	880.4459519	0.735237348	-0.443718
IQGAP1	6315.486185	4642.879454	0.735157883	-0.443874
CCR1	44.02569665	32.3632348	0.735098755	-0.44399
WDFY3	5186.227066	3812.223094	0.735066754	-0.444053
NRBP2	348.903646	256.4163988	0.734920376	-0.44434
TRMO	431.4518272	316.9937357	0.734714088	-0.444745
ZCRB1	816.6766729	599.9645836	0.734641509	-0.444888
UCHL3	42.92505424	31.53340827	0.734615455	-0.444939
COPG2IT1	42.92505424	31.53340827	0.734615455	-0.444939
TMEM120B	255.3490406	187.5407965	0.7344488	-0.445266
CCDC32	127.6745203	93.77039827	0.7344488	-0.445266
DDX23	1274.543918	936.0443296	0.734415124	-0.445332
CBR4	1005.987168	738.5456147	0.734150134	-0.445853
UROS	376.4197064	276.3322356	0.734106719	-0.445938
DYNC1I1	83.64882364	61.40716347	0.734106719	-0.445938
SNTB2	290.5695979	213.2654191	0.73395641	-0.446234
IARS1	162.8950776	119.4950208	0.733570483	-0.446993
SEC23A	1261.336209	925.2565847	0.733552702	-0.447027
KCTD10	444.6595362	326.1218276	0.733419169	-0.44729
ZNF3	402.8351244	295.4182459	0.733347784	-0.447431
MEF2C	560.2269899	410.764134	0.733210183	-0.447701
ADAM33	159.5931504	117.0055412	0.733148891	-0.447822
ASH1L	11262.87385	8256.774007	0.733096554	-0.447925
SLC66A2	157.3918655	115.3458881	0.732858002	-0.448394
PEX3	388.526773	284.6305009	0.732589157	-0.448924
KIF16B	1368.098523	1001.600626	0.732111473	-0.449865
DUSP18	75.94432672	55.59837774	0.732093892	-0.449899
CHKA	529.4090022	387.5289911	0.732003025	-0.450078
EXOC6	713.2162858	521.9608895	0.731840958	-0.450398
PEX5	37.42184215	27.3842756	0.731772516	-0.450533
ZNF441	187.1092108	136.921378	0.731772516	-0.450533
RPS6KA2	707.7130737	517.8117568	0.731669056	-0.450737
KDM6B	2601.918672	1903.622068	0.731622432	-0.450829
YIPF3	756.14134	552.6644712	0.730901013	-0.452252
JDP2	179.4047139	131.1125923	0.730820219	-0.452412
GM2A	322.488228	235.6707355	0.730788646	-0.452474
ANKRA2	283.9657434	207.4566333	0.730569226	-0.452907
FAM229A	141.9828717	103.7283167	0.730569226	-0.452907
ABCA13	35.22055732	25.72462253	0.730386584	-0.453268
ENSG000002	35.22055732	25.72462253	0.730386584	-0.453268
CTR9	910.2312783	664.6910532	0.730244136	-0.453549
UBE2J1	837.5888788	611.5821551	0.730169861	-0.453696
TPT1-AS1	103.4603871	75.51421454	0.729885289	-0.454258
ESRP2	517.3019357	377.5710727	0.729885289	-0.454258
FCHO2	924.5396297	674.6489716	0.729713416	-0.454598
PCMTD1	1434.137068	1046.411259	0.729645221	-0.454733
NDUFA13	34.11991491	24.894796	0.729626556	-0.45477
RFNG	136.4796596	99.579184	0.729626556	-0.45477
SLC9A1	578.937911	422.3817055	0.729580319	-0.454861
RHOBTB2	405.0364092	295.4182459	0.729362198	-0.455293
DICER1	7005.58898	5107.582313	0.729072506	-0.455866
DNAH11	432.5524696	315.3340827	0.729007704	-0.455994
TMEM64	395.1306275	287.9498071	0.728745855	-0.456512
GON4L	2893.588912	2108.589221	0.728710707	-0.456582
FAM3C	388.526773	282.9708479	0.7283175	-0.457361
SLC25A29	582.2398382	424.0413586	0.728293275	-0.457409
NAF1	709.9143585	516.9819303	0.728231404	-0.457531
ADAM20	191.5117804	139.4108576	0.727949254	-0.45809
HECTD4	10073.07939	7332.347249	0.727915165	-0.458158
NOP14	886.0171451	644.7752164	0.727723182	-0.458538

ZNF667-AS1	36.32119974	4.444690926	0.122371809	-3.030657
ENSG000002	36.32119974	4.444690926	0.122371809	-3.030657
BCAS1	1390.111372	170.0094279	0.122299142	-3.031514
NLGN4Y	891.5203572	108.8949277	0.122145195	-3.033331
FRY	2413.708819	294.4607738	0.121995152	-3.035104
ZNF804A	146.3854414	17.7787637	0.12145172	-3.041545
CTSG	55.03212081	6.667036389	0.121148091	-3.045156
TMEM198B	55.03212081	6.667036389	0.121148091	-3.045156
CCDC180	27.51606041	3.333518194	0.121148091	-3.045156
ENSG000002	27.51606041	3.333518194	0.121148091	-3.045156
GSTO2	175.0021442	21.1122819	0.120640133	-3.051218
NRCAM	1051.113508	126.6736914	0.120513808	-3.05273
TFF3	572.3340565	68.89270935	0.120371501	-3.054434
MIR29B2CH(	138.6809445	16.66759097	0.120186598	-3.056652
PCBP1-AS1	92.45396297	11.11172731	0.120186598	-3.056652
RPSAP47	46.22698148	5.555863657	0.120186598	-3.056652
FBXL22	46.22698148	5.555863657	0.120186598	-3.056652
BGN	4830.719565	578.9209931	0.119841565	-3.0608
TRPC4	380.822276	45.55808199	0.119630822	-3.063339
DRAIC	83.64882364	10.00055458	0.119554037	-3.064265
SOD3	400.6338395	47.78042745	0.119262086	-3.067793
FCGR3A	308.1798766	36.66870014	0.118984732	-3.071152
EIF1AY	280.6638162	33.33518194	0.118772638	-3.073726
SLC12A2-DT	74.84368431	8.889381852	0.118772638	-3.073726
LINC00467	18.71092108	2.222345463	0.118772638	-3.073726
ZNF658B	18.71092108	2.222345463	0.118772638	-3.073726
GOLGA8O	18.71092108	2.222345463	0.118772638	-3.073726
TPM3P9	18.71092108	2.222345463	0.118772638	-3.073726
HMGN1P38	18.71092108	2.222345463	0.118772638	-3.073726
ENSG000002	18.71092108	2.222345463	0.118772638	-3.073726
MIRLET7IHC	18.71092108	2.222345463	0.118772638	-3.073726
RTEL1	18.71092108	2.222345463	0.118772638	-3.073726
PIEZO2	997.1820292	117.7843095	0.11811716	-3.08171
RNF125	150.788011	17.7787637	0.117905685	-3.084295
NRXN3	2716.385483	320.0177467	0.117810137	-3.085464
IGFBP3	264.1541799	31.11283648	0.117782866	-3.085798
NMNAT3	113.3661689	13.33407278	0.117619506	-3.087801
ELAPOR1	3735.580361	438.9132289	0.117495325	-3.089325
CP	2942.017179	345.5747195	0.117461829	-3.089736
PPP1R14A	141.9828717	16.66759097	0.117391561	-3.090599
GET4	75.94432672	8.889381852	0.117051296	-3.094787
ACSM3	418.2441182	48.89160018	0.116897281	-3.096687
ENSG000002	104.5610295	12.22290005	0.116897281	-3.096687
SNCAIP	266.3554647	31.11283648	0.116809454	-3.097771
MITF	466.6723845	54.44746384	0.116671707	-3.099473
SERHL	57.23340565	6.667036389	0.116488549	-3.10174
MIR4435-2H(	28.61670282	3.333518194	0.116488549	-3.10174
SDHAP4	28.61670282	3.333518194	0.116488549	-3.10174
TUG1	315.8843735	36.66870014	0.116082666	-3.106776
A2M	29017.33666	3357.963994	0.115722681	-3.111256
C2orf49	346.7023611	40.00221833	0.115379134	-3.115546
CD28	38.52248457	4.444690926	0.115379134	-3.115546
IQGAP2	2205.687402	254.4585555	0.115364741	-3.115726
PIFO	163.99572	18.88993643	0.115185545	-3.117968
KIAA1143	48.42826632	5.555863657	0.114723571	-3.123766
CFAP298-TC	48.42826632	5.555863657	0.114723571	-3.123766
ENSG000002	48.42826632	5.555863657	0.114723571	-3.123766
CDKN2C	155.1905807	17.7787637	0.114560843	-3.125814
TFCP2L1	126.5738779	14.44524551	0.114125013	-3.131313
CRYAB	518.4025781	58.89215477	0.113603129	-3.137926
NFASC	881.6145755	100.0055458	0.113434542	-3.140068
TPSAB1	392.9293426	44.44690926	0.113116798	-3.144115
RRM2	148.5867262	16.66759097	0.112174158	-3.156188
NEK2	69.34047223	7.77820912	0.112174158	-3.156188
GABPB1-IT1	29.71734524	3.333518194	0.112174158	-3.156188
CCR2	108.9635992	12.22290005	0.112174158	-3.156188
OCLN	39.62312699	4.444690926	0.112174158	-3.156188
CYP27B1	19.81156349	2.222345463	0.112174158	-3.156188
MED20	19.81156349	2.222345463	0.112174158	-3.156188
ENSG000002	19.81156349	2.222345463	0.112174158	-3.156188
SZT2-AS1	19.81156349	2.222345463	0.112174158	-3.156188
DPH5-DT	19.81156349	2.222345463	0.112174158	-3.156188
SLC25A25-A	19.81156349	2.222345463	0.112174158	-3.156188
ZKSCAN2-D	19.81156349	2.222345463	0.112174158	-3.156188
TNFRSF17	9.905781747	1.111172731	0.112174158	-3.156188
MIOX	9.905781747	1.111172731	0.112174158	-3.156188
NFATC4	9.905781747	1.111172731	0.112174158	-3.156188
FAM86GP	9.905781747	1.111172731	0.112174158	-3.156188
ZSCAN2	9.905781747	1.111172731	0.112174158	-3.156188
TRIM64B	9.905781747	1.111172731	0.112174158	-3.156188
TOMM20L	9.905781747	1.111172731	0.112174158	-3.156188
ADGRA1	9.905781747	1.111172731	0.112174158	-3.156188
SMN2	9.905781747	1.111172731	0.112174158	-3.156188
RNU1-4	9.905781747	1.111172731	0.112174158	-3.156188
LINC01422	9.905781747	1.111172731	0.112174158	-3.156188
EPIC1	9.905781747	1.111172731	0.112174158	-3.156188
ZNF567-DT	9.905781747	1.111172731	0.112174158	-3.156188
MTND5P2	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
FAM192BP	9.905781747	1.111172731	0.112174158	-3.156188
FHAD1-AS1	9.905781747	1.111172731	0.112174158	-3.156188
TRIM52-AS1	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
SNHG30	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
RAB35-AS1	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
KANK3	27.3842756	37.77987287	0.724837685	-0.46427
SLC35F2	136.0915515	187.7881916	0.724707716	-0.464529
PARVA	215.7548987	297.794292	0.724509853	-0.464923
ZNF135	375.0815931	517.8064929	0.724366338	-0.465209
EDNRB	371.7622869	513.3618019	0.724172086	-0.465596
KLHL6	26.55444907	36.66870014	0.724172086	-0.465596
S1PR3	158.4968679	218.9010281	0.724057211	-0.465824
ZNF667	311.18495	430.0238471	0.723645798	-0.466644
ADAM10	2228.084242	3079.059639	0.723624906	-0.466686
CERS5	356.8254093	493.3606928	0.723254638	-0.467424
COLQ	76.34404107	105.5614095	0.723219228	-0.467495
STX4	176.7530516	244.4580009	0.723040567	-0.467852
C3AR1	125.3038065	173.3429461	0.722866487	-0.468199
TOMM20	370.9324604	513.3618019	0.72255563	-0.468819
S100A10	642.2857368	888.9381852	0.722531384	-0.468868
MAP3K3	370.1026339	512.2506292	0.722503034	-0.468924
VPS35L	1394.938403	1931.218207	0.722310093	-0.46931
TOGARAM1	1140.181657	1578.976451	0.722101749	-0.469726
MMP8	24.06496947	33.33518194	0.721909048	-0.470111
TSPAN15	599.9645836	831.1572031	0.721842488	-0.470244
GMPPB	95.43005134	132.229555	0.72169986	-0.470529
SLC17A5	262.2251845	363.3534832	0.721680668	-0.470567
NSFP1	47.3001124	65.55919115	0.721487126	-0.470954
DENND4A	1038.94282	1440.07986	0.721448059	-0.471033
LEMD2	377.5710727	523.3623565	0.721433378	-0.471062
ADGRA3	1421.492852	1971.220426	0.721123236	-0.471682
DCTN1	837.2949722	1161.175504	0.721075297	-0.471778
RNF32	23.23514293	32.22400921	0.721050655	-0.471827
PPP1R9A	325.2920011	451.136129	0.721050655	-0.471827
IFNGR2	46.47028587	64.44801842	0.721050655	-0.471827
GOLGB1	9617.689522	13339.62864	0.720986302	-0.471956
LAP3	553.4942978	767.8203574	0.720864317	-0.4722
LDB1	345.2078379	478.9154472	0.720811659	-0.472306
SDHD	180.9021843	251.1250373	0.720366978	-0.473196
PIGT	2671.211611	3709.094578	0.720178889	-0.473573
DMTN	179.2425312	248.9026918	0.720130947	-0.473669
TRIL	22.4053164	31.11283648	0.720130947	-0.473669
UBR5	12722.90041	17676.53581	0.719762093	-0.474408
MOXD1	43.98080627	61.11450023	0.71964601	-0.474641
PLPP6	108.7072759	151.1194915	0.719346491	-0.475241
DBP	151.8582556	211.122819	0.719288689	-0.475357
MAP3K4	1384.980484	1925.662344	0.719222915	-0.475489
CCDC149	151.0284291	210.0116462	0.719143113	-0.475649
IL20RB	21.57548987	30.00166375	0.719143113	-0.475649
ALG13	2292.810712	3190.176912	0.718709581	-0.476519
RHOBTB2	295.4182459	411.1339106	0.718545073	-0.476849
BBC3	20.74566333	28.89049102	0.718079292	-0.477785
BRD1	722.7789106	1006.722495	0.717952479	-0.47804
NUDT2	61.40716347	85.56030032	0.717706264	-0.478535
P2RY12	19.9158368	27.77931829	0.716930365	-0.480095
ASAH2B	39.00184707	54.44746384	0.71632073	-0.481322
MAP7	796.633472	1112.283904	0.716214151	-0.481537
BNC2	737.7157882	1030.057122	0.716189202	-0.481587
PURA	252.2672661	352.2417559	0.716176495	-0.481613
CAMK2G	385.869338	538.9187747	0.716006486	-0.481955
TBCD	1551.775617	2167.897999	0.715797338	-0.482377
CD6	19.08601027	26.66814555	0.715685694	-0.482602
MAGEE2	19.08601027	26.66814555	0.715685694	-0.482602
ACTBP11	19.08601027	26.66814555	0.715685694	-0.482602
AKIP1	95.43005134	133.3407278	0.715685694	-0.482602
MMP7	57.2580308	80.00443666	0.715685694	-0.482602
NACC1	620.710247	867.8259033	0.71524743	-0.483486
RHOV	37.342194	52.22511838	0.715023635	-0.483937
PDXK	539.3872467	754.4862846	0.714906629	-0.484173
GCNA	36.51236747	51.11394565	0.714332791	-0.485332
SLC7A11	1165.906279	1632.312742	0.714266482	-0.485466
FOSL2	382.5500319	535.5852566	0.714265427	-0.485468
CYB5R3	323.632348	453.3584744	0.713855296	-0.486296
UBE2J2	250.6076131	351.1305831	0.713716279	-0.486577
XPNPEP1	769.2491964	1077.837549	0.713696787	-0.486617
RNPEP	853.8915028	1196.733032	0.713518788	-0.486977
JAK2	585.027706	820.0454758	0.713408858	-0.487199
RAB40B	70.53525534	98.8943731	0.713238308	-0.487544
MCCC1	1053.049871	1476.74856	0.713086777	-0.48785
CASP8	245.6286539	344.4635467	0.713075901	-0.487872
CTNNA3	52.2790716	73.33740027	0.712856897	-0.488316
KANSL1	51.44924507	72.22622754	0.712334658	-0.489373
TEF	102.8984901	144.4524551	0.712334658	-0.489373
ZNF441	136.921378	192.2328825	0.712268246	-0.489507
DPAGT1	170.9442659	240.01331	0.712228276	-0.489588
KANK1	905.3407479	1271.181605	0.712204098	-0.489637
SELENOF	527.7696752	741.1522119	0.712093504	-0.489861
ENSG000002	34.02288787	47.78042745	0.712067465	-0.489914
IDNK	50.61941854	71.11505481	0.711796098	-0.490464
SSR4	741.0350943	1041.168849	0.711733831	-0.49059
SLC29A2	185.0513169	260.0144192	0.711696365	-0.490666
KLHL7	268.0339703	376.687556	0.71155515	-0.490953
BPIFA2	16.59653067	23.33462736	0.711240442	-0.491591
ENSG000002	16.59653067	23.33462736	0.711240442	-0.491591
USF2	628.1786858	883.3823215	0.711106245	-0.491863
ZNF419	213.2654191	300.0166375	0.710845308	-0.492392
FTSJ3	492.0871343	692.2606117	0.710840868	-0.492401
PSENEN	32.3632348	45.55808199	0.710373075	-0.493351
ZNF853	32.3632348	45.55808199	0.710373075	-0.493351
ADGRA3P1	32.3632348	45.55808199	0.710373075	-0.493351
AFAP1L2	112.8564085	158.8977006	0.7102457	-0.49361
CAPS2	321.9726949	453.3584744	0.7101945	-0.493714
ZBTB45	353.5061032	497.8053837	0.710129128	-0.493847
JUND	1877.897445	2644.591101	0.710089906	-0.493926
SAV1	788.3352067	1111.172731	0.70946234	-0.495202
FOXD4	15.76670413	22.22345463	0.70946234	-0.495202
FITM2	126.5738779	92.1107452	0.727723182	-0.458538
MAPKBP1	283.9657434	206.6268068	0.727646949	-0.458689
MEIS2	1165.580319	848.0827171	0.727605557	-0.458772
EPM2AIP1	880.513933	640.6260838	0.727559281	-0.458863
WDPCP	408.3383364	297.0778989	0.727528798	-0.458924
ZNF404	154.0899383	112.026582	0.727020747	-0.459932
CEP170P1	60.5353329	43.98080627	0.726531171	-0.460903
GSN	2386.192759	1733.507628	0.726474264	-0.461016
ZNF446	90.25267814	65.55629614	0.726363998	-0.461235
ALKBH8	179.4047139	130.2827657	0.726194775	-0.461572
CCAR1	3139.032171	2279.533487	0.726189909	-0.461581
UBAP2L	6158.094319	4471.935188	0.726188161	-0.461585
BAP1	657.0835225	477.1502567	0.726163783	-0.461633
ENSG000002	29.71734524	21.57548987	0.726023462	-0.461912
ZFTA	89.15203572	64.7264696	0.726023462	-0.461912
ATG2A	501.8929418	364.2938481	0.725839751	-0.462277
SLC22A23	466.6723845	338.5692256	0.725496594	-0.462959
CD59	116.6680961	84.6423064	0.725496594	-0.462959
PPIL6	145.284799	105.3879697	0.725388826	-0.463174
CFAP92	86.95075089	63.06681654	0.725316526	-0.463317
R3HCC1	200.3169198	145.2196433	0.724949463	-0.464048
MHENCR	28.61670282	20.74566333	0.724949463	-0.464048
GJA5	28.61670282	20.74566333	0.724949463	-0.464048
PDCD6IP	3044.376923	2206.508752	0.724781723	-0.464382
MERTK	963.0621143	697.8841146	0.724651198	-0.464641
ARIH2	849.6959454	615.7312878	0.724648965	-0.464646
ZDHHC11B	195.9143501	141.9003372	0.724297823	-0.465345
SEMA3F	808.972176	585.8575326	0.724199855	-0.46554
SLC8B1	167.2976473	121.1546739	0.724186358	-0.465567
GAR1	193.7130653	140.2406841	0.723960895	-0.466016
SOCS5	606.4539714	438.9782362	0.723844277	-0.466249
TNFSF13	27.51606041	19.9158368	0.723789543	-0.466358
B3GNT4	27.51606041	19.9158368	0.723789543	-0.466358
ARF4	879.4132906	636.4769511	0.723751799	-0.466433
ATAD2B	2213.391899	1601.565209	0.723579593	-0.466776
SLC9A8	514.0000084	371.7622869	0.72327292	-0.467388
RYR3	53.9314784	39.00184707	0.723174076	-0.467585
TWF2	53.9314784	39.00184707	0.723174076	-0.467585
APC	2622.830878	1896.153629	0.722941629	-0.468049
ALOX5AP	159.5931504	115.3458881	0.722749616	-0.468432
CENPP	26.41541799	19.08601027	0.722532964	-0.468865
ACTBP11	26.41541799	19.08601027	0.722532964	-0.468865
EIF3F	681.2976557	492.0871343	0.722279213	-0.469371
BTRC	680.1970133	491.2573078	0.722227969	-0.469474
PIGB	156.2912231	112.8564085	0.722090507	-0.469748
BORCS6	78.14561156	56.42820427	0.722090507	-0.469748
CNNM4	494.1884449	356.8254093	0.722043206	-0.469843
KLHL12	753.9400552	544.3662059	0.722028498	-0.469872
SS18	1479.263408	1067.986748	0.721971992	-0.469985
CPLANE1	5002.419782	3610.575247	0.721765746	-0.470397
PLD2	385.2248457	277.9918887	0.721635408	-0.470658
BTBD6	355.5075005	256.4163988	0.721268605	-0.471391
PUS3	125.4732355	90.45109214	0.720879571	-0.47217
GTF2A1	1551.905807	1118.606167	0.720795142	-0.472339
SAMD9	849.6959454	612.4119816	0.720742502	-0.472444
MRPL40	223.4304105	160.9863475	0.7205212	-0.472887
DENND3	742.933631	535.238114	0.720438666	-0.473052
SSBP3	469.9743118	338.5692256	0.720399429	-0.473131
MAEA	395.1306275	284.6305009	0.720345327	-0.473239
CDC14A	588.8436927	424.0413586	0.7201255	-0.47368
LRWD1	122.1713082	87.96161254	0.719985845	-0.47396
MAP3K10	145.284799	104.5581432	0.719677103	-0.474578
DEF8	145.284799	104.5581432	0.719677103	-0.474578
ENSG000002	48.42826632	34.8527144	0.719677103	-0.474578
FAM182B	24.21413316	17.4263572	0.719677103	-0.474578
ATP9A	2082.415452	1498.666719	0.719677103	-0.474578
LMTK2	1548.60388	1114.457034	0.719652746	-0.474627
IL13RA1	1281.147773	921.9372786	0.719618219	-0.474696
UNC13B	2268.42402	1632.268791	0.719560707	-0.474812
FLCN	241.0406892	173.4337455	0.719520617	-0.474892
ZFP64	674.6938012	485.448522	0.719509385	-0.474915
POMGNT2	505.1948691	363.4640216	0.719453114	-0.475027
EEIG1	648.2783832	466.3625118	0.719386183	-0.475162
THUMPD2	311.4818038	224.053164	0.719313813	-0.475307
OBSCN	1852.381187	1331.871586	0.719005135	-0.475926
ENSG000002	47.3276239	34.02288787	0.718880118	-0.476177
ENSG000002	47.3276239	34.02288787	0.718880118	-0.476177
MCM9	518.4025781	372.5921135	0.718731212	-0.476476
LUC7L3	2426.916528	1744.295373	0.718729035	-0.47648
GCC1	235.5374771	169.2846128	0.718716252	-0.476506
SLC26A11	139.7815869	100.4090105	0.718327877	-0.477286
COPS7A	301.5760221	216.5847252	0.718176212	-0.47759
PPARG	115.5674537	82.98265334	0.718045182	-0.477853
STN1	23.11349074	16.59653067	0.718045182	-0.477853
DET1	23.11349074	16.59653067	0.718045182	-0.477853
ATRIP	137.580302	98.74935747	0.717757964	-0.478431
EAF2	114.4668113	82.1528268	0.717699968	-0.478547
PARP14	2620.629593	1880.386925	0.717532508	-0.478884
RGCC	68.23982981	48.95976547	0.717466113	-0.479017
LINC-PINT	135.3790172	97.0897044	0.717169517	-0.479614
SH3GL1	451.2633907	323.632348	0.717169517	-0.479614
NFS1	471.0749542	337.7393991	0.716954693	-0.480046
ERCC2	446.860821	320.3130419	0.716807173	-0.480343
POU2F2	89.15203572	63.89664307	0.716715469	-0.480528
MTHFSD	177.203429	126.9634596	0.716484214	-0.480993
INPP5A	550.3212081	394.1676033	0.716250069	-0.481465
PROB1	44.02569665	31.53340827	0.716250069	-0.481465
SMIM3	44.02569665	31.53340827	0.716250069	-0.481465
ZNF747	22.01284833	15.76670413	0.716250069	-0.481465
LINC02604	22.01284833	15.76670413	0.716250069	-0.481465
ENSG000002	22.01284833	15.76670413	0.716250069	-0.481465

ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
ENSG000002	9.905781747	1.111172731	0.112174158	-3.156188
H4C13	130.9764475	14.44524551	0.110288878	-3.180641
ISL1	222.3297681	24.44580009	0.109952888	-3.185043
CCDC136	222.3297681	24.44580009	0.109952888	-3.185043
MYLK	7407.323462	810.0449212	0.109357304	-3.192879
ENSG000002	40.7237694	4.444690926	0.109142424	-3.195716
TRGC2	183.8072835	20.00110917	0.108815651	-3.200042
RGS7BP	71.54175706	7.77820912	0.108722646	-3.201276
SFRP2	2188.077124	237.7909645	0.108675769	-3.201898
OASL	30.81798766	3.333518194	0.108167939	-3.208655
TMBIM4	92.45396297	10.00055458	0.108167939	-3.208655
SLAMF8	82.54818122	8.889381852	0.107687192	-3.215081
ENSG000002	82.54818122	8.889381852	0.107687192	-3.215081
ENSG000002	51.73019357	5.555863657	0.10740079	-3.218923
EPS8L1	72.64239948	7.77820912	0.107075333	-3.223302
RAB19	72.64239948	7.77820912	0.107075333	-3.223302
CX3CL1	238.8394043	25.55697282	0.107004842	-3.224252
CCL21	62.73661773	6.667036389	0.106270255	-3.23419
CD226	62.73661773	6.667036389	0.106270255	-3.23419
OTUD6B-AS	62.73661773	6.667036389	0.106270255	-3.23419
CYP3A4	20.91220591	2.222345463	0.106270255	-3.23419
DLGAP1-AS1	20.91220591	2.222345463	0.106270255	-3.23419
RPL14P3	20.91220591	2.222345463	0.106270255	-3.23419
ENSG000002	20.91220591	2.222345463	0.106270255	-3.23419
TTC23-AS1	20.91220591	2.222345463	0.106270255	-3.23419
ENSG000002	20.91220591	2.222345463	0.106270255	-3.23419
MEIS1	1018.094235	107.7837549	0.105868152	-3.239659
PRRG1	189.3104956	20.00110917	0.105652405	-3.242602
TMEM176B	263.0535375	27.77931829	0.105603287	-3.243273
RPL36AP37	211.3233439	22.22345463	0.105163274	-3.249297
EFCAB5	52.83083598	5.555863657	0.105163274	-3.249297
CYP2J2	815.5760305	85.56030032	0.104907816	-3.252806
CCR4	84.74946605	8.889381852	0.104890122	-3.253049
U2AF1	212.4239863	22.22345463	0.104618386	-3.256792
CASC2	31.91863007	3.333518194	0.10443801	-3.259281
THAP9-AS1	31.91863007	3.333518194	0.10443801	-3.259281
SIRPG	42.92505424	4.444690926	0.103545377	-3.271665
IKZF1	323.5888704	33.33518194	0.103017084	-3.279044
MAB21L1	280.6638162	28.89049102	0.102936287	-3.280176
C1orf116	3310.732388	340.0188558	0.102702005	-3.283464
TBX5	129.8758051	13.33407278	0.102667874	-3.283943
SULF1	4033.854456	413.3562561	0.102471782	-3.286701
KCNIP4	151.8886534	15.55641824	0.102419884	-3.287432
PVT1	75.94432672	7.77820912	0.102419884	-3.287432
GPATCH11	173.9015018	17.7787637	0.102234676	-3.290043
LINC00641	86.95075089	8.889381852	0.102234676	-3.290043
CYTIP	152.9892959	15.55641824	0.10168305	-3.297849
WDR76	163.99572	16.66759097	0.101634305	-3.298541
ZNF608	910.2312783	92.22733671	0.10132297	-3.302967
MAK	132.07709	13.33407278	0.100956743	-3.308191
PPIAP2	66.03854498	6.667036389	0.100956743	-3.308191
CTBP2P4	33.01927249	3.333518194	0.100956743	-3.308191
ENSG000002	33.01927249	3.333518194	0.100956743	-3.308191
GDNF	77.04496914	7.77820912	0.100956743	-3.308191
CDCA8	22.01284833	2.222345463	0.100956743	-3.308191
ENSG000002	22.01284833	2.222345463	0.100956743	-3.308191
C8B	11.00642416	1.111172731	0.100956743	-3.308191
SLC25A12	11.00642416	1.111172731	0.100956743	-3.308191
ANKRD30BL	11.00642416	1.111172731	0.100956743	-3.308191
TOMM5	11.00642416	1.111172731	0.100956743	-3.308191
TCL6	11.00642416	1.111172731	0.100956743	-3.308191
IGLC7	11.00642416	1.111172731	0.100956743	-3.308191
CKLF	11.00642416	1.111172731	0.100956743	-3.308191
RPS27P3	11.00642416	1.111172731	0.100956743	-3.308191
KRT18P4	11.00642416	1.111172731	0.100956743	-3.308191
DNM3OS	11.00642416	1.111172731	0.100956743	-3.308191
ERICH2-DT	11.00642416	1.111172731	0.100956743	-3.308191
INTS6-AS1	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
PCED1B-AS1	11.00642416	1.111172731	0.100956743	-3.308191
MEF2C-AS1	11.00642416	1.111172731	0.100956743	-3.308191
SRP14-DT	11.00642416	1.111172731	0.100956743	-3.308191
TRIM7-AS1	11.00642416	1.111172731	0.100956743	-3.308191
ALDH7A1P1	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
C2orf15	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
NEFL	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
POLR2J3.1	11.00642416	1.111172731	0.100956743	-3.308191
LINC00680	11.00642416	1.111172731	0.100956743	-3.308191
ENSG000002	11.00642416	1.111172731	0.100956743	-3.308191
MAP2	690.102795	68.89270935	0.099829634	-3.324388
CD2	189.3104956	18.88993643	0.099782827	-3.325065
DRP2	112.2655265	11.11172731	0.098977199	-3.33676
ZNF395	45.12633907	4.444690926	0.098494383	-3.343815
IGLV2-23	45.12633907	4.444690926	0.098494383	-3.343815
SFN	282.865101	27.77931829	0.098206948	-3.348031
ENSG000001	34.11991491	3.333518194	0.097700074	-3.355497
RPL36A	34.11991491	3.333518194	0.097700074	-3.355497
ENSG000002	34.11991491	3.333518194	0.097700074	-3.355497
LINC00667	57.23340565	5.555863657	0.097073791	-3.364774
IL18R1	126.5738779	12.22290005	0.096567319	-3.372321
GRHL3	92.45396297	8.889381852	0.096149279	-3.37858
RBFOX3	92.45396297	8.889381852	0.096149279	-3.37858
H2AC18	46.22698148	4.444690926	0.096149279	-3.37858
PIWIL3	23.11349074	2.222345463	0.096149279	-3.37858
A3GALT2	15.76670413	22.22345463	0.70946234	-0.495202
PITPNM1	645.605043	910.050467	0.709416748	-0.495295
PARD3	2384.921457	3362.408685	0.709289584	-0.495553
ARAP2	297.9077255	420.0232925	0.709264774	-0.495604
GPR162	78.00369414	110.0061004	0.709085167	-0.495969
SP140L	46.47028587	65.55919115	0.708829457	-0.49649
OSBP2	92.1107452	130.0072096	0.708504901	-0.49715
ASAH1	1564.223015	2207.900217	0.708466353	-0.497229
MBD1	351.8464501	496.694211	0.708376386	-0.497412
ELL	214.0952456	302.238983	0.708364102	-0.497437
HDLBP	10381.95976	14656.36833	0.708358273	-0.497449
DOLK	547.685512	773.3762211	0.70817475	-0.497823
IFNGR1	1033.134034	1458.969796	0.708125718	-0.497923
PLXND1	2182.443783	3082.393157	0.708035501	-0.498106
ALG3	408.2746544	576.6986476	0.707951468	-0.498278
STX5	438.1484096	618.9232114	0.707920468	-0.498341
BCL2L13	240.6496947	340.0188558	0.707753969	-0.49868
ACTA2	478.8099098	676.7041934	0.707561612	-0.499072
GGACT	14.9368776	21.1122819	0.707497071	-0.499204
NUDT7	14.9368776	21.1122819	0.707497071	-0.499204
CTTNBP2NL	819.0387884	1157.841986	0.707383907	-0.499435
TMEM185B	268.0339703	378.9099014	0.707381806	-0.499439
CCDC115	88.79143907	125.5625187	0.707149235	-0.499913
UBE4B	1937.644955	2740.151956	0.707130476	-0.499952
STRN4	1121.925473	1586.75466	0.707056674	-0.500102
SLX4	648.0945226	916.7175034	0.706972999	-0.500273
C6orf226	43.98080627	62.22567296	0.706795189	-0.500636
ALDH9A1	981.684789	1388.965914	0.706773852	-0.500679
GPD1L	175.0933985	247.7915191	0.706615784	-0.501002
BANP	130.2827657	184.4546734	0.706313173	-0.50162
FADD	101.2388371	143.3412824	0.706278299	-0.501691
HMCN1	345.2078379	488.9160018	0.706067784	-0.502121
EGFLAM	129.4529392	183.3435007	0.706067784	-0.502121
UNC50	556.8136039	788.9326393	0.70578092	-0.502708
PCDHGB6	85.47213294	121.1178277	0.705694071	-0.502885
DNAI1	42.3211532	60.0033275	0.705313438	-0.503664
CXCL2	14.10705107	20.00110917	0.705313438	-0.503664
HEATR4	14.10705107	20.00110917	0.705313438	-0.503664
OSBPL7	112.026582	158.8977006	0.705023305	-0.504257
MIEF1	209.9461129	297.794292	0.705003818	-0.504297
DOK3	111.1967555	157.7865279	0.704729085	-0.504859
SRPRB	277.9918887	394.4663197	0.704729085	-0.504859
MEAF6	842.2739314	1195.621859	0.704465149	-0.5054
PIK3CG	68.87560227	97.78320037	0.704370505	-0.505594
FKBP1A	1141.84131	1621.201015	0.704318156	-0.505701
TGOLN2	233.1812559	331.129474	0.704199639	-0.505944
ZNF426	479.6397363	681.1488844	0.704162845	-0.506019
BDKRB2	27.3842756	38.8910456	0.704128037	-0.50609
KCNAB3	27.3842756	38.8910456	0.704128037	-0.50609
GUSBP11	68.04577574	96.67202764	0.703882782	-0.506593
GATD1	174.263572	247.7915191	0.703266894	-0.507856
SLC35E3	240.6496947	342.2412013	0.703158164	-0.508079
KAZALD1	13.27722453	18.88993643	0.702872907	-0.508664
IRF4	13.27722453	18.88993643	0.702872907	-0.508664
MAT1A	13.27722453	18.88993643	0.702872907	-0.508664
HOXA4	13.27722453	18.88993643	0.702872907	-0.508664
LINC01359	13.27722453	18.88993643	0.702872907	-0.508664
ZNF154	39.8316736	56.6698093	0.702872907	-0.508664
PTPN18	197.4987149	281.1267011	0.702525638	-0.509377
ARMC2	92.1107452	131.1183823	0.702500623	-0.509429
LRP3	262.2251845	373.3540378	0.702349936	-0.509738
CAPNS1	1506.964985	2145.674544	0.702326916	-0.509785
BBS2	326.9516541	465.5813745	0.702243844	-0.509956
DNPH1	104.5581432	148.897146	0.702217242	-0.510011
IRAG2	52.2790716	74.44857301	0.702217242	-0.510011
EHMT1	1466.303484	2089.004735	0.701914869	-0.510632
SLC25A32	64.7264696	92.22733671	0.701814363	-0.510839
LGR4	501.2152262	714.4840663	0.701506513	-0.511472
CD82	282.1410213	402.2445288	0.701416679	-0.511656
ENTR1	230.6917763	328.9071285	0.7013888	-0.511714
SLC30A9	1020.686636	1455.636278	0.701196206	-0.51211
TRPV1	140.2406841	200.0110917	0.701164535	-0.512175
ZNF334	1325.232974	1890.104816	0.701142583	-0.51222
DVL3	1413.194586	2015.667335	0.701105069	-0.512297
TRAF7	839.7844518	1197.844204	0.701079864	-0.512349
SFXN4	165.1354801	235.5686191	0.701007973	-0.512497
RSU1	419.0623993	597.8109295	0.700994878	-0.512524
ZNF408	126.9634596	181.1211552	0.700986362	-0.512542
SLC30A7	736.0561351	1050.058231	0.700966969	-0.512582
MFSD4B	316.9937357	452.2473017	0.700930076	-0.512658
DOCK2	225.7128171	322.2400921	0.700449207	-0.513648
KDM6B	1903.622068	2717.928501	0.700394461	-0.51376
TLR2	199.9881945	285.571392	0.700308925	-0.513937
C1QL3	12.447398	17.7787637	0.70012731	-0.514311
MB21D2	12.447398	17.7787637	0.70012731	-0.514311
TRNP1	12.447398	17.7787637	0.70012731	-0.514311
PCYOX1	881.2757784	1258.958705	0.700003721	-0.514566
SLC39A9	830.6563599	1186.732477	0.699952496	-0.514671
PLPP2	693.7349819	991.1660764	0.699918004	-0.514742
EXOC6B	493.7467874	705.5946845	0.699759789	-0.515068
FAU	702.8630738	1004.500149	0.699714255	-0.515162
MRPL43	356.8254093	510.0282837	0.699618866	-0.515359
ZFYVE21	146.8792964	210.0116462	0.699386434	-0.515838
PDGFC	109.5371024	156.6753551	0.699134221	-0.516359
ZNF564	36.51236747	52.22511838	0.699134221	-0.516359
FBXL13	97.0897044	138.8965914	0.699007106	-0.516621
KANK2	907.8302275	1298.960923	0.69888956	-0.516864
ZNF697	84.6423064	121.1178277	0.698842672	-0.51696
DHTKD1	931.0653704	1332.296105	0.698842672	-0.51696
RASSF3	156.8372148	224.4568918	0.698740919	-0.51717
PRPF40B	204.9671537	293.3496011	0.698712911	-0.517228
KANSL1L	1707.096388	1222.334484	0.716031322	-0.481905
NECAP1	350.0042884	250.6076131	0.716012979	-0.481942
RNF149	412.7409061	295.4182459	0.715747437	-0.482477
SMAD5	1577.220583	1128.564085	0.715539791	-0.482896
TRIM5	214.6252712	153.5179087	0.71528347	-0.483413
MARCHF9	85.85010847	61.40716347	0.71528347	-0.483413
SLC26A2	407.237694	291.2691132	0.715231221	-0.483518
SLC9A7	514.0000084	367.6131543	0.715200678	-0.48358
TMEM123	5866.424079	4195.602953	0.715189167	-0.483603
TBC1D15	913.5332055	653.0734818	0.714887513	-0.484212
BPTF	7488.771	5353.210967	0.714831708	-0.484324
IK	1036.805156	741.0350943	0.714729368	-0.484531
BAHD1	253.1477557	180.9021843	0.714611053	-0.48477
GTF3C1	4314.518272	3081.975745	0.714326734	-0.485344
NUDT7	20.91220591	14.9368776	0.714265997	-0.485467
ENSG000002	104.5610295	74.684388	0.714265997	-0.485467
PI4KAP2	62.73661773	44.8106328	0.714265997	-0.485467
NPIPA9.1	62.73661773	44.8106328	0.714265997	-0.485467
GGT7	311.4818038	222.3935109	0.713985563	-0.486033
S100A10	900.3254965	642.2857368	0.713392811	-0.487231
INO80D	40.7237694	29.04392867	0.713193525	-0.487634
USP54	2071.409027	1477.091229	0.713085253	-0.487854
SLC39A11	101.2591023	72.1949084	0.712972037	-0.488083
FOXO4	161.7944352	115.3458881	0.712916288	-0.488195
ZRSR2	282.865101	201.6478476	0.712876374	-0.488276
JMJD8	704.4111464	502.0450527	0.71271594	-0.488601
SAMM50	744.0342734	530.2591548	0.712681087	-0.488671
PARGP1	80.34689639	57.2580308	0.712635253	-0.488764
LINC00963	100.1584599	71.36508187	0.712521758	-0.488994
SLAIN1	220.1284833	156.8372148	0.712480332	-0.489078
PCNX1	3259.002195	2321.85464	0.712443411	-0.489153
ZNF75D	278.4625313	198.3285415	0.712227029	-0.489591
PATZ1	694.5053647	494.5766139	0.712127852	-0.489792
CDH17	19.81156349	14.10705107	0.712061472	-0.489926
NUDT18	19.81156349	14.10705107	0.712061472	-0.489926
EBLN2	59.43469048	42.3211532	0.712061472	-0.489926
ACTR8	414.9421909	295.4182459	0.711950369	-0.490151
VCL	2603.019315	1853.002649	0.711866654	-0.490321
LEO1	997.1820292	709.501686	0.711506691	-0.491051
STIM1	564.6295596	401.6360421	0.711326631	-0.491416
SREBF2	1409.922935	1002.430452	0.710982443	-0.492114
UQCR10	287.2676707	204.1373272	0.710617128	-0.492856
DYRK2	573.4346989	407.4448279	0.710533961	-0.493024
SLC25A36	840.8908061	597.475104	0.710526384	-0.49304
ERBIN	3890.770942	2763.322356	0.710224888	-0.493652
FBRS	996.0813867	707.0122064	0.709793613	-0.494529
PGRMC1	468.8736693	332.7604399	0.709701699	-0.494715
VAMP4	149.6873686	106.2177963	0.709597592	-0.494927
PHKA1P1	74.84368431	53.10889814	0.709597592	-0.494927
CRCP	74.84368431	53.10889814	0.709597592	-0.494927
CST1	18.71092108	13.27722453	0.709597592	-0.494927
GRIN1	18.71092108	13.27722453	0.709597592	-0.494927
ZNF763	18.71092108	13.27722453	0.709597592	-0.494927
ADGRF5P1	18.71092108	13.27722453	0.709597592	-0.494927
SUMO2P21	18.71092108	13.27722453	0.709597592	-0.494927
FSIP2-AS1	18.71092108	13.27722453	0.709597592	-0.494927
BUD31	449.0621058	318.6533888	0.709597592	-0.494927
DTX3L	1196.398307	848.9125436	0.709556791	-0.49501
CBLB	1568.415443	1112.797381	0.709504224	-0.495117
ZNF331	279.5631737	198.3285415	0.709422986	-0.495282
TACC1	1769.833005	1255.527545	0.709404526	-0.49532
ANKRD13C	409.4389789	290.4392867	0.709359152	-0.495412
TMEM263	595.4475472	422.3817055	0.709351659	-0.495427
DNASE1	239.9400468	170.1144393	0.708987273	-0.496168
HEXA	588.8436927	417.4027463	0.708851519	-0.496445
KDM4A	275.1606041	195.0092353	0.708710595	-0.496731
EPM2A	163.99572	116.1757147	0.708406992	-0.49735
LIPT2	36.32119974	25.72462253	0.708253657	-0.497662
FOSL2	540.4154264	382.5500319	0.707881406	-0.49842
CRELD1	53.9314784	38.17202053	0.707787394	-0.498612
YTHDC2	782.556758	553.4942978	0.707289653	-0.499627
ENSG000001	124.372593	87.96161254	0.707242732	-0.499723
DBNL	567.9314868	401.6360421	0.707191011	-0.499828
C3AR1	177.203429	125.3038065	0.707118408	-0.499976
ACIN1	3721.27201	2631.379937	0.707118408	-0.499976
ZNF836	1063.220574	751.8228392	0.707118408	-0.499976
NPC1L1	17.61027866	12.447398	0.706825726	-0.500574
SLC35F1	17.61027866	12.447398	0.706825726	-0.500574
UMAD1	88.0513933	62.23699	0.706825726	-0.500574
GATD1	246.5439013	174.263572	0.706825726	-0.500574
CDKL5	716.518213	506.1941854	0.706463808	-0.501312
MCAT	139.7815869	98.74935747	0.706454689	-0.501331
XPA	366.5139246	258.9058784	0.706401206	-0.50144
PPIC	347.8030036	245.6286539	0.706229249	-0.501792
MCAM	417.1434758	294.5884193	0.706204068	-0.501843
CYP39A1	156.2912231	110.3669289	0.70616204	-0.501929
DAB2IP	1143.567471	807.421217	0.706054726	-0.502148
ELF1	1710.398315	1207.397606	0.70591604	-0.502431
AZIN2	51.73019357	36.51236747	0.705823136	-0.502621
TSTD3	137.580302	97.0897044	0.705694805	-0.502884
UBE4A	1645.460412	1160.92732	0.705533425	-0.503214
CCNT2	1315.267687	927.7460643	0.705366727	-0.503555
RPL10P6	170.5995745	120.3248473	0.705305671	-0.503679
UVSSA	375.319064	264.7146641	0.705305671	-0.503679
SIGLEC9	34.11991491	24.06496947	0.705305671	-0.503679
ENSG000002	34.11991491	24.06496947	0.705305671	-0.503679
PARVB	152.9892959	107.8774493	0.7051307	-0.504037
UCKL1	441.3576089	311.18495	0.705063068	-0.504176
SPATA6	627.3661773	442.2975423	0.705006993	-0.504291
BTAF1	2271.725947	1601.565209	0.704999303	-0.504306
ARNT	1619.044994	1141.011483	0.704743529	-0.50483

MTCO1P12	23.11349074	2.222345463	0.096149279	-3.37858
PLCXD2	23.11349074	2.222345463	0.096149279	-3.37858
FOXP1-IT1	23.11349074	2.222345463	0.096149279	-3.37858
ENSG000002	23.11349074	2.222345463	0.096149279	-3.37858
ARHGAP28	1081.931495	103.339064	0.0955135	-3.388152
ENSG000002	139.7815869	13.33407278	0.095392198	-3.389985
POTEH	432.5524696	41.11339106	0.095048333	-3.395195
HMCN1	5151.006508	488.9160018	0.094916596	-3.397196
PLA1A	257.5503254	24.44580009	0.094916596	-3.397196
FGF10	70.44111464	6.667036389	0.094646946	-3.4013
ENSG000001	35.22055732	3.333518194	0.094646946	-3.4013
LINC00649	35.22055732	3.333518194	0.094646946	-3.4013
WDR5B-DT	35.22055732	3.333518194	0.094646946	-3.4013
ITGA1	3741.083573	353.3529286	0.094452028	-3.404274
PCDH10	966.3640415	91.11616398	0.094287618	-3.406788
PEG10	47.3276239	4.444690926	0.093913249	-3.412527
OLFM4	617.4603955	57.78098203	0.093578442	-3.41768
GRIA2	59.43469048	5.555863657	0.093478465	-3.419222
ENSG000002	71.54175706	6.667036389	0.093190839	-3.423668
AGR2	1910.715235	177.787637	0.093047689	-3.425886
PRELID2	83.64882364	7.77820912	0.092986473	-3.426835
MT-ND6	541.5160688	50.00277291	0.092338484	-3.436924
ENPP2	1035.704514	95.5608549	0.092266524	-3.438049
LRRC9	121.0706658	11.11172731	0.091778857	-3.445694
NOTCH2NLC	60.5353329	5.555863657	0.091778857	-3.445694
GOLGA2P5.1	48.42826632	4.444690926	0.091778857	-3.445694
CD22	24.21413316	2.222345463	0.091778857	-3.445694
KRT86	24.21413316	2.222345463	0.091778857	-3.445694
ENSG000002	24.21413316	2.222345463	0.091778857	-3.445694
IPCEF1	12.10706658	1.111172731	0.091778857	-3.445694
FCRL4	12.10706658	1.111172731	0.091778857	-3.445694
MYOZ3	12.10706658	1.111172731	0.091778857	-3.445694
H3C13	12.10706658	1.111172731	0.091778857	-3.445694
TRAJ18	12.10706658	1.111172731	0.091778857	-3.445694
SETP21	12.10706658	1.111172731	0.091778857	-3.445694
LINC02649	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
MTND1P11	12.10706658	1.111172731	0.091778857	-3.445694
RGS17P1	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
EOLA1-DT	12.10706658	1.111172731	0.091778857	-3.445694
HOTTIP	12.10706658	1.111172731	0.091778857	-3.445694
MAP3K9-DT	12.10706658	1.111172731	0.091778857	-3.445694
WHSC1L2P	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
EIF1B-AS1	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
ENSG000002	12.10706658	1.111172731	0.091778857	-3.445694
PLA2G4A	375.319064	34.44635467	0.091778857	-3.445694
JAML	266.3554647	24.44580009	0.091778857	-3.445694
MT-RNR1	38004.08199	3474.637131	0.091427998	-3.45122
CALD1	4336.53112	395.5774924	0.091219798	-3.454509
PPP3CB-AS1	73.74304189	6.667036389	0.090409023	-3.467389
CC2D2B	61.63597531	5.555863657	0.090139949	-3.47169
IBTK	346.7023611	31.11283648	0.089739327	-3.478116
SLITRK6	879.4132906	78.89326393	0.089711248	-3.478567
TBL1Y	74.84368431	6.667036389	0.089079479	-3.488763
PRRT2	37.42184215	3.333518194	0.089079479	-3.488763
AGPAT1	37.42184215	3.333518194	0.089079479	-3.488763
ENSG000002	37.42184215	3.333518194	0.089079479	-3.488763
PTPN22	237.7387619	21.1122819	0.088804542	-3.493223
PLA2G2A	10027.95305	887.8270124	0.088535218	-3.497605
TP63	757.2419824	66.67036389	0.088043671	-3.505637
CASP1	265.2548223	23.33462736	0.087970606	-3.506835
CCNB2	50.62955115	4.444690926	0.087788472	-3.509825
FJX1	25.31477557	2.222345463	0.087788472	-3.509825
FOXS1	25.31477557	2.222345463	0.087788472	-3.509825
TRDN	25.31477557	2.222345463	0.087788472	-3.509825
POTEKP	25.31477557	2.222345463	0.087788472	-3.509825
MIR34AHG	25.31477557	2.222345463	0.087788472	-3.509825
ENSG000002	25.31477557	2.222345463	0.087788472	-3.509825
ENSG000002	25.31477557	2.222345463	0.087788472	-3.509825
PCA3	75.94432672	6.667036389	0.087788472	-3.509825
ENSG000002	75.94432672	6.667036389	0.087788472	-3.509825
MYOC	127.6745203	11.11172731	0.087031675	-3.522316
THAP2	38.52248457	3.333518194	0.086534351	-3.530583
ANO1	812.2741032	70.00388208	0.086182585	-3.53646
NMI	245.4432588	21.1122819	0.086016956	-3.539235
THY1	452.3640331	38.8910456	0.085972895	-3.539974
CCDC144A	51.73019357	4.444690926	0.085920632	-3.540852
OR51C1P	51.73019357	4.444690926	0.085920632	-3.540852
PDE5A	2845.160646	244.4580009	0.085920632	-3.540852
CRACR2B	168.3982897	14.44524551	0.085780239	-3.543211
PRKG1	365.4132822	31.11283648	0.085144241	-3.553947
RNF148	91.35332055	7.77820912	0.085144241	-3.553947
FMN2	130.9764475	11.11172731	0.084837599	-3.559152
DUSP7	539.314784	45.55808199	0.084474009	-3.565349
TMEM119	118.869381	10.00055458	0.084130619	-3.571225
HEIH	26.41541799	2.222345463	0.084130619	-3.571225
ENSG000002	26.41541799	2.222345463	0.084130619	-3.571225
POLDIP3	13.207709	1.111172731	0.084130619	-3.571225
SLC19A3	13.207709	1.111172731	0.084130619	-3.571225
HERC3	13.207709	1.111172731	0.084130619	-3.571225
C8orf48	13.207709	1.111172731	0.084130619	-3.571225
SERPINA12	13.207709	1.111172731	0.084130619	-3.571225
RPL12P4	13.207709	1.111172731	0.084130619	-3.571225
NR2F6	168.4547863	241.1244827	0.69862166	-0.517417
NXPH3	24.06496947	34.44635467	0.69862166	-0.517417
EIF4BP3	24.06496947	34.44635467	0.69862166	-0.517417
SAMD9L	238.1602151	341.1300286	0.698150837	-0.518389
SCFD2	238.1602151	341.1300286	0.698150837	-0.518389
UBE2A	35.68254093	51.11394565	0.698097955	-0.518499
LYPLA2	94.6002248	135.5630732	0.69783181	-0.519049
CMYA5	129.4529392	185.5658462	0.697611882	-0.519503
BRAF	799.1229516	1145.619086	0.697546821	-0.519638
ZMYM3	1126.074606	1614.533979	0.697461076	-0.519815
EXOC4	1031.474381	1478.970906	0.697427094	-0.519886
IMMP2L	93.77039827	134.4519005	0.697427094	-0.519886
TDRD1	23.23514293	33.33518194	0.697015633	-0.520737
ADAMTS16	11.61757147	16.66759097	0.697015633	-0.520737
RGS20	11.61757147	16.66759097	0.697015633	-0.520737
CD96	11.61757147	16.66759097	0.697015633	-0.520737
AGXT	11.61757147	16.66759097	0.697015633	-0.520737
FAM110B	34.8527144	50.00277291	0.697015633	-0.520737
TMEM132A	440.6378892	632.2572842	0.696928134	-0.520918
ELOB	625.6892062	897.827567	0.696892398	-0.520992
SMARCAL1	497.0660935	713.3728936	0.696782984	-0.521219
LIAS	68.87560227	98.8943731	0.69645623	-0.521895
SH3BP2	354.3359297	508.917111	0.696254699	-0.522313
ABLIM1	593.3259714	852.269485	0.696171788	-0.522485
PRCP	1014.048024	1456.747451	0.696104203	-0.522625
UQCRQ	507.0240119	728.9293118	0.695573636	-0.523725
PIN1	281.3111948	404.4668742	0.695511086	-0.523855
CAST	787.5053802	1132.285013	0.695501019	-0.523875
SLIT1	370.9324604	533.3629111	0.695459794	-0.523961
LZTS2	279.6515417	402.2445288	0.695227708	-0.524443
EPB41L1	669.6700124	963.3867582	0.695120632	-0.524665
TSPAN18	78.00369414	112.2284459	0.695043877	-0.524824
DUSP18	55.59837774	80.00443666	0.694941181	-0.525037
FAM50B	88.79143907	127.7848641	0.694850988	-0.525224
SHKBP1	407.4448279	586.6992022	0.694469715	-0.526016
FGD6	1321.083841	1902.327716	0.694456497	-0.526044
LOXL1	65.55629614	94.44968217	0.694086996	-0.526812
PSMA1	21.57548987	31.11283648	0.693459431	-0.528117
RPL32P18	21.57548987	31.11283648	0.693459431	-0.528117
TLE3	1175.864198	1695.649588	0.693459431	-0.528117
ZNF217	2315.216028	3339.074058	0.693370673	-0.528301
ULK1	824.8475742	1190.065995	0.693110783	-0.528842
MCEE	63.89664307	92.22733671	0.692816743	-0.529454
BAD	223.2233375	322.2400921	0.692723665	-0.529648
TCTA	42.3211532	61.11450023	0.692489557	-0.530136
CLK4	200.8180211	290.0160829	0.692437533	-0.530244
TTC8	760.1211046	1097.838659	0.692379612	-0.530365
RIOX2	388.3588176	561.1422294	0.692086244	-0.530976
METTL22	188.3706231	272.2373192	0.691935344	-0.531291
TOMM34	240.6496947	347.7970649	0.691925605	-0.531311
TRIM56	292.9287663	423.3568107	0.691919343	-0.531324
GAS6-AS1	20.74566333	30.00166375	0.691483763	-0.532233
NUDT8	82.98265334	120.006655	0.691483763	-0.532233
TCF4	536.8977671	776.7097393	0.691246343	-0.532728
NRBP2	256.4163988	371.1316923	0.690904076	-0.533443
NQO2	245.6286539	355.5752741	0.690792279	-0.533676
MPP3	132.7722453	192.2328825	0.690684359	-0.533902
OTUD7B	518.6415834	751.1527665	0.690460858	-0.534368
RSPH4A	40.66150013	58.89215477	0.690440014	-0.534412
CD163L1	111.1967555	161.1200461	0.690148484	-0.535021
R3HDM2	312.8446031	453.3584744	0.69006012	-0.535206
RPL10A	1664.632026	2413.467173	0.689726401	-0.535904
AP2A1	1011.558544	1466.748005	0.68966076	-0.536041
CBX6	490.4274812	711.1505481	0.6896254	-0.536115
ENG	508.683665	737.8186937	0.689442636	-0.536498
ENSG000002	29.8737552	43.33573653	0.68935612	-0.536679
IL4I1	19.9158368	28.89049102	0.68935612	-0.536679
SOWAHA	19.9158368	28.89049102	0.68935612	-0.536679
CD5L	9.9579184	14.44524551	0.68935612	-0.536679
B3GAT2	9.9579184	14.44524551	0.68935612	-0.536679
TTC5	9.9579184	14.44524551	0.68935612	-0.536679
SPATA9	9.9579184	14.44524551	0.68935612	-0.536679
CRACR2B	9.9579184	14.44524551	0.68935612	-0.536679
EXOC5P1	9.9579184	14.44524551	0.68935612	-0.536679
SEC14L1P1	9.9579184	14.44524551	0.68935612	-0.536679
ENSG000002	9.9579184	14.44524551	0.68935612	-0.536679
DTNB	702.8630738	1020.056567	0.689043232	-0.537334
XRRA1	267.2041437	387.7992833	0.689026915	-0.537368
IDH1	1262.995984	1833.435007	0.688868697	-0.537699
TAMM41	88.79143907	128.8960368	0.688860893	-0.537715
ZC3H11B	68.87560227	100.0055458	0.688717828	-0.538015
UBE2E2	361.8043685	525.584702	0.688384512	-0.538713
MAP1LC3A	165.9653067	241.1244827	0.688297202	-0.538896
TK2	78.00369414	113.3396186	0.688229721	-0.539038
KBTBD7	224.053164	325.5736103	0.688179745	-0.539143
PCDHGA11	58.08785734	84.44912759	0.687844374	-0.539846
TTYH3	453.9151138	660.0366025	0.687712033	-0.540124
SOCS6	250.6076131	364.4646559	0.687604707	-0.540349
LRRC42	472.1712975	686.704748	0.687589971	-0.54038
MRFAP1	640.6260838	932.2739217	0.68716508	-0.541271
C12orf43	57.2580308	83.33795486	0.687058267	-0.541496
TNFRSF10A	38.17202053	55.55863657	0.687058267	-0.541496
FRK	38.17202053	55.55863657	0.687058267	-0.541496
ANGPTL1	19.08601027	27.77931829	0.687058267	-0.541496
ECT2L	19.08601027	27.77931829	0.687058267	-0.541496
ZBTB17	285.4603275	415.5786016	0.686898523	-0.541831
TXNDC11	684.60689	996.7219401	0.686858453	-0.541915
BBS9	559.3030835	814.4896121	0.686691488	-0.542266
WDR1	2813.941775	4098.005034	0.686661376	-0.542329
IRF2BP2	1458.005219	2123.45109	0.68662058	-0.542415
TESK1	614.9014612	895.6052215	0.686576459	-0.542508
FBXL14	387.4261305	273.0129295	0.70468383	-0.504952
PTPRG	1656.466837	1166.736106	0.704352227	-0.505631
TNK2	731.9272068	515.3222772	0.704062197	-0.506225
PRKAB2	214.6252712	151.0284291	0.703684278	-0.507
GIPR	16.50963624	11.61757147	0.703684278	-0.507
ACTA1	16.50963624	11.61757147	0.703684278	-0.507
EPAS1	1820.462557	1279.592514	0.702894168	-0.508621
ENTPD7	226.7323378	159.3266944	0.702708295	-0.509002
ARID2	4156.025764	2920.159571	0.702632692	-0.509157
TRPM3	48.42826632	34.02288787	0.702541934	-0.509344
PTDSS2	48.42826632	34.02288787	0.702541934	-0.509344
TRIM23	402.8351244	282.9708479	0.702448299	-0.509536
TTC3	10950.2914	7690.002485	0.702264643	-0.509913
SLTM	3306.329819	2321.85464	0.70224532	-0.509953
HEXIM2-AS1	159.5931504	112.026582	0.701951066	-0.510558
FCGRT	237.7387619	166.7951332	0.70158998	-0.5113
CTNNBL1	854.098515	599.1347571	0.701482026	-0.511522
CFL2	363.2119974	254.7567457	0.701399589	-0.511692
RP9	189.3104956	132.7722453	0.701346457	-0.511801
UBAC2	440.2569665	308.6954704	0.70117112	-0.512162
NFRKB	877.2120058	614.9014612	0.700972464	-0.51257
CCNG1	559.1263475	391.6781237	0.700518095	-0.513506
CCDC134	139.7815869	97.91953094	0.700518095	-0.513506
PINK1-AS	139.7815869	97.91953094	0.700518095	-0.513506
TXNIP	3590.295562	2514.374396	0.700325183	-0.513903
NANS	894.8222845	626.5190327	0.700160293	-0.514243
FHIP1A	708.8137161	496.236267	0.700094052	-0.514379
POLL	123.2719506	86.30195947	0.700094052	-0.514379
ENSG000002	30.81798766	21.57548987	0.700094052	-0.514379
ICAM5	15.40899383	10.78774493	0.700094052	-0.514379
POU6F2	15.40899383	10.78774493	0.700094052	-0.514379
TRIB3	77.04496914	53.93872467	0.700094052	-0.514379
HACD2	1659.768764	1161.757147	0.699951205	-0.514674
DNAJC3	1166.680961	816.5493088	0.699890832	-0.514798
ELP2	837.5888788	585.8575326	0.699457153	-0.515692
PALS1	957.5589022	669.6700124	0.699351247	-0.515911
TLK2P1	75.94432672	53.10889814	0.699313569	-0.515989
CCDC117	348.903646	243.9690008	0.69924463	-0.516131
GLI4	197.0149925	137.7512045	0.699191482	-0.51624
MLYCD	60.5353329	42.3211532	0.6991149	-0.516399
TRAF6	363.2119974	253.9269192	0.6991149	-0.516399
SLC30A1	662.5867346	463.0432056	0.698841648	-0.516963
FBXL8	45.12633907	31.53340827	0.698780555	-0.517089
ZNF454	45.12633907	31.53340827	0.698780555	-0.517089
CHIC1	135.3790172	94.6002248	0.698780555	-0.517089
PPP1R12A	4994.715285	3487.76092	0.698290237	-0.518101
ZNF619	237.7387619	165.9653067	0.698099483	-0.518495
ITSN2	2302.543935	1606.544169	0.697725739	-0.519268
CCDC93	527.2077174	367.6131543	0.697283333	-0.520183
FMNL3	584.4411231	407.4448279	0.697152907	-0.520453
ARRB1	466.6723845	325.2920011	0.697045747	-0.520675
SELENOF	757.2419824	527.7696752	0.696963042	-0.520846
COQ2	246.5439013	171.7740924	0.696728216	-0.521332
LRCH3	1740.11566	1212.376565	0.696721829	-0.521345
DSE	462.2698148	321.9726949	0.696503827	-0.521797
TES	359.9100701	250.6076131	0.696306199	-0.522206
WHRN	374.2184215	260.5655315	0.696292637	-0.522234
VIPAS39	647.1777408	450.5958076	0.696247382	-0.522328
FER	560.2269899	390.0184707	0.696179366	-0.522469
ENSG000002	42.92505424	29.8737552	0.695951484	-0.522941
LIMK2	443.5588938	308.6954704	0.695951484	-0.522941
EPHA5	57.23340565	39.8316736	0.695951484	-0.522941
HCST	14.30835141	9.9579184	0.695951484	-0.522941
TEKT4	14.30835141	9.9579184	0.695951484	-0.522941
FREM3	14.30835141	9.9579184	0.695951484	-0.522941
NOTCH4	14.30835141	9.9579184	0.695951484	-0.522941
ENSG000002	14.30835141	9.9579184	0.695951484	-0.522941
TBC1D3L	14.30835141	9.9579184	0.695951484	-0.522941
COPS4	511.7987236	355.9955828	0.695577317	-0.523717
NPTXR	156.2912231	108.7072759	0.695543062	-0.523788
NXF1	977.3704657	679.6279308	0.695363687	-0.52416
CBY1	198.1156349	137.7512045	0.695307085	-0.524278
AGO4	534.9122143	371.7622869	0.694996818	-0.524922
SLC35D1	197.0149925	136.921378	0.694979485	-0.524958
COPB2	6109.666053	4245.392545	0.694864909	-0.525196
MAP3K3	532.7109295	370.1026339	0.694753221	-0.525427
ELL	308.1798766	214.0952456	0.694708714	-0.52552
GOLGA2	1284.4497	892.0635234	0.694510282	-0.525932
ADI1	640.5738863	444.7870219	0.694357094	-0.52625
ZNF12	792.4625397	550.1749916	0.694259935	-0.526452
MMP16	111.164884	77.1738676	0.694228832	-0.526517
TTC7B	676.895086	469.6818179	0.693876832	-0.527248
SMAD4	1737.914375	1205.737953	0.693784441	-0.527441
LYPD3	165.0963624	114.5160616	0.693631646	-0.527758
ZC3H11C	27.51606041	19.08601027	0.693631646	-0.527758
ANKRD11	3982.124262	2761.662703	0.693514949	-0.528001
ZNF740	274.0599617	190.0302761	0.693389414	-0.528262
ENSG000002	95.75589022	66.38612267	0.693285003	-0.52848
ALDH3B1	40.7237694	28.21410213	0.692816568	-0.529455
RHOQP2	40.7237694	28.21410213	0.692816568	-0.529455
BLOC1S6	257.5503254	178.4127047	0.692729487	-0.529636
RBM12	4171.434758	2889.455989	0.692676778	-0.529746
PLEKHA8	270.7580344	187.5407965	0.692650901	-0.5298
CTDSP1	432.5524696	299.5673785	0.692557319	-0.529995
NME6	148.5867262	102.8984901	0.692514687	-0.530083
OSBPL1A	1025.798732	710.3315126	0.692466749	-0.530183
DIMT1	552.522493	382.5500319	0.69237006	-0.530385
MYL6	1575.019298	1090.392065	0.69230394	-0.530523
CD63	1991.062131	1378.341872	0.692264621	-0.530604
GEMIN8	121.0706658	83.81247987	0.692260832	-0.530612
FRS2	536.0128567	370.9324604	0.692021573	-0.531111

SULT1A1	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
LDLRAD1	13.207709	1.111172731	0.084130619	-3.571225
MT-TE	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
LINC01473	13.207709	1.111172731	0.084130619	-3.571225
SSX2	13.207709	1.111172731	0.084130619	-3.571225
PPIAP41	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
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ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
ENSG000002	13.207709	1.111172731	0.084130619	-3.571225
CDK6	1084.13278	91.11616398	0.084045207	-3.572691
CCDC80	2127.541791	176.6764643	0.083042535	-3.590006
CD180	107.8629568	8.889381852	0.082413667	-3.600973
BIRC3	635.0706742	52.22511838	0.082235128	-3.604101
POTEE	324.6895128	26.66814555	0.082134299	-3.605871
MMP10	366.5139246	30.00166375	0.081856818	-3.610754
IRAG1	1145.768755	93.33850944	0.081463654	-3.6177
HHIP	220.1284833	17.7787637	0.080765394	-3.630119
COL17A1	137.580302	11.1117231	0.080765394	-3.630119
CSRNP3	110.0642416	8.889381852	0.080765394	-3.630119
GJB1	55.03212081	4.444690926	0.080765394	-3.630119
EPHA1	27.51606041	2.222345463	0.080765394	-3.630119
MIAT	27.51606041	2.222345463	0.080765394	-3.630119
RAB1AP1	27.51606041	2.222345463	0.080765394	-3.630119
SEPTIN7P6	27.51606041	2.222345463	0.080765394	-3.630119
SLC16A4-AS	27.51606041	2.222345463	0.080765394	-3.630119
MT-CO3	4423.481871	352.2417559	0.079629976	-3.650545
SLAMF6	70.44111464	5.555863657	0.078872455	-3.664335
SAMD3	70.44111464	5.555863657	0.078872455	-3.664335
GIMAP7	183.8072835	14.44524551	0.078589081	-3.669527
MT-ND1	9338.950902	730.0404846	0.078171573	-3.677212
MT-RNR2	68877.10177	5375.853675	0.07804994	-3.679459
SPINK5	28.61670282	2.222345463	0.077659033	-3.686702
NOTCH2NLE	28.61670282	2.222345463	0.077659033	-3.686702
TATDN2	14.30835141	1.111172731	0.077659033	-3.686702
PCNPP5	14.30835141	1.111172731	0.077659033	-3.686702
ENSG000002	14.30835141	1.111172731	0.077659033	-3.686702
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PDCL3P6	14.30835141	1.111172731	0.077659033	-3.686702
ZMIZ1-AS1	14.30835141	1.111172731	0.077659033	-3.686702
PTMAP4	14.30835141	1.111172731	0.077659033	-3.686702
ZEB1-AS1	14.30835141	1.111172731	0.077659033	-3.686702
SOX2-OT	14.30835141	1.111172731	0.077659033	-3.686702
VASH1-AS1	14.30835141	1.111172731	0.077659033	-3.686702
HISLA	14.30835141	1.111172731	0.077659033	-3.686702
MAGI1-IT1	14.30835141	1.111172731	0.077659033	-3.686702
ENSG000002	14.30835141	1.111172731	0.077659033	-3.686702
PEG13	14.30835141	1.111172731	0.077659033	-3.686702
LINC00869	14.30835141	1.111172731	0.077659033	-3.686702
SFTPA2	85.85010847	6.667036389	0.077659033	-3.686702
RHOF	42.92505424	3.333518194	0.077659033	-3.686702
MAOB	1116.05141	86.67147305	0.077659033	-3.686702
SCARNA7	791.3618973	61.11450023	0.077226994	-3.694751
RAB27A	937.7473387	72.22622754	0.077020989	-3.698605
SH2D3A	129.8758051	10.00055458	0.077000905	-3.698981
CCDC69	129.8758051	10.00055458	0.077000905	-3.698981
SNHG16	58.33404806	4.444690926	0.076193768	-3.714183
CYP4F8	351.1049308	26.66814555	0.075954916	-3.718713
S100A2	44.02569665	3.333518194	0.075717557	-3.723228
MMP7	1067.623144	80.00443666	0.074936964	-3.738179
CD38	89.15203572	6.667036389	0.074782772	-3.74115
MEG3	118.869381	8.889381852	0.074782772	-3.74115
LINC00472	59.43469048	4.444690926	0.074782772	-3.74115
ARRDC5	29.71734524	2.222345463	0.074782772	-3.74115
ENSG000002	121.0706658	8.889381852	0.073423086	-3.767622
ENSG000002	121.0706658	8.889381852	0.073423086	-3.767622
DOK2	60.5353329	4.444690926	0.073423086	-3.767622
TLK2P2	60.5353329	4.444690926	0.073423086	-3.767622
ZNF702P	60.5353329	4.444690926	0.073423086	-3.767622
SH3RF2	75.94432672	5.555863657	0.07315706	-3.772859
ENSG000002	75.94432672	5.555863657	0.07315706	-3.772859
SYNM	4891.254898	357.7976195	0.073150475	-3.772989
ABCC9	1504.578183	110.0061004	0.073114247	-3.773704
DPYS	106.7623144	7.77820912	0.072855381	-3.778821
RNF216P1	46.22698148	3.333518194	0.072111959	-3.793618
ENSG000002	46.22698148	3.333518194	0.072111959	-3.793618
SLCO1C1	15.40899383	1.111172731	0.072111959	-3.793618
PTGER1	15.40899383	1.111172731	0.072111959	-3.793618
TRAJ31	15.40899383	1.111172731	0.072111959	-3.793618
PELATON	15.40899383	1.111172731	0.072111959	-3.793618
LINC00115	15.40899383	1.111172731	0.072111959	-3.793618
BACH1-IT2	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
TRD-AS1	15.40899383	1.111172731	0.072111959	-3.793618
RNF157-AS1	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
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TMEM167B-I	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
ENSG000002	15.40899383	1.111172731	0.072111959	-3.793618
MT-CO1	8729.195004	624.4790751	0.071539137	-3.805123
GLRB	93.55460539	6.667036389	0.071263583	-3.810691
ALDH1A3	2758.209895	195.5664007	0.070903379	-3.818002
HNMT	84.6423064	123.3401732	0.686250913	-0.543192
LRIG2	718.6297779	1047.835886	0.685822835	-0.544092
CHCHD6	121.1546739	176.6764643	0.685743143	-0.54426
EOLA2	176.7530516	257.7920737	0.685641917	-0.544473
SORBS3	640.6260838	934.4962671	0.685530918	-0.544706
PDE9A	342.7183583	500.0277291	0.685398706	-0.544985
NCOA3	2007.350384	2929.05132	0.685324416	-0.545141
NCAM2	73.85456147	107.7837549	0.685210508	-0.545381
ETNK1	692.0753288	1010.056013	0.685185099	-0.545434
PITPNM3	156.8372148	228.9015827	0.685173134	-0.54546
CCDC191	580.8785734	847.8247941	0.685139875	-0.54553
C20orf96	350.1867971	511.1394565	0.685110086	-0.545592
PRDX6	1034.793687	1511.194915	0.684751965	-0.546347
EAF2	82.1528268	120.006655	0.684568925	-0.546732
GPRASP2	146.0494699	213.3451644	0.684568925	-0.546732
BEST2	9.128091867	13.33407278	0.684568925	-0.546732
SRMS	9.128091867	13.33407278	0.684568925	-0.546732
CFAP126	9.128091867	13.33407278	0.684568925	-0.546732
OR11H13P	9.128091867	13.33407278	0.684568925	-0.546732
SCYL2P1	9.128091867	13.33407278	0.684568925	-0.546732
LINC01619	9.128091867	13.33407278	0.684568925	-0.546732
MAP3K4-AS	9.128091867	13.33407278	0.684568925	-0.546732
NAGK	218.2443783	318.9065739	0.684352083	-0.547189
TTLL11	99.579184	145.5636278	0.68409386	-0.547734
CFAP44	668.0103594	976.7208309	0.683931722	-0.548076
SIL1	216.5847252	316.6842285	0.683913835	-0.548114
FLAD1	269.6936233	394.4663197	0.683692396	-0.548581
ELK4	2368.324926	3464.636577	0.683570953	-0.548837
AKT3	89.6212656	131.1183823	0.683514119	-0.548957
ITPRID2	1857.151782	2717.928501	0.683296776	-0.549416
VCAM1	71.36508187	104.4502368	0.683244807	-0.549526
GALNT7	1596.58625	2337.907427	0.682912519	-0.550227
CAVIN4	26.55444907	38.8910456	0.682790824	-0.550484
TLE2	696.2244615	1020.056567	0.682535149	-0.551025
SLC35F5	1011.558544	1482.304424	0.682422941	-0.551262
FIZ1	140.2406841	205.5669553	0.682214142	-0.551703
CD164	1224.823963	1795.655134	0.68210423	-0.551936
VPS41	707.842033	1037.835331	0.682036939	-0.552078
PUS10	52.2790716	76.67091847	0.681863119	-0.552446
SCN4A	17.4263572	25.55697282	0.681863119	-0.552446
RPUSD1	181.7320108	266.6814555	0.681457248	-0.553305
USP22	3979.848054	5840.323876	0.681443039	-0.553335
PHKB	1778.318261	2610.144746	0.681310208	-0.553616
TOR1AIP1	793.3141659	1164.509023	0.681243469	-0.553758
PER1	1412.36476	2073.448317	0.681167092	-0.553919
RPL4P4	68.87560227	101.1167186	0.6811495	-0.553957
RSAD2	25.72462253	37.77987287	0.680908129	-0.554468
ARMCX1	34.02288787	50.00277291	0.680420022	-0.555502
DOCK9	1767.530516	2597.921846	0.680363237	-0.555623
NAPA	569.2610019	836.7130668	0.680353904	-0.555643
CDIPT	297.0778989	436.6908835	0.680293338	-0.555771
IKZF4	84.6423064	124.4513459	0.680123672	-0.556131
TYMP	42.3211532	62.22567296	0.680123672	-0.556131
MFSD1	928.5758908	1365.631287	0.679960909	-0.556476
BACE1-AS	75.51421454	111.1172731	0.679590242	-0.557263
OLFML2B	234.8409089	345.5747195	0.679566229	-0.557314
EBNA1BP2	552.6644712	813.3784394	0.679467815	-0.557523
CHD3	5395.53212	7941.551512	0.679405292	-0.557656
MYD88	117.0055412	172.2317734	0.679349338	-0.557774
ZNF805	407.4448279	600.033275	0.679037055	-0.558438
PLEK	41.49132667	61.11450023	0.678911331	-0.558705
ZNF208	41.49132667	61.11450023	0.678911331	-0.558705
SCGN	24.894796	36.66870014	0.678911331	-0.558705
PAX8	24.894796	36.66870014	0.678911331	-0.558705
USH2A	91.28091867	134.4519005	0.678911331	-0.558705
ZNF764	82.98265334	122.2290005	0.678911331	-0.558705
SLC13A2	8.298265334	12.22290005	0.678911331	-0.558705
FGF12	8.298265334	12.22290005	0.678911331	-0.558705
TTLL2	8.298265334	12.22290005	0.678911331	-0.558705
CCR2	8.298265334	12.22290005	0.678911331	-0.558705
ENSG000002	8.298265334	12.22290005	0.678911331	-0.558705
CDC42P6	8.298265334	12.22290005	0.678911331	-0.558705
ENSG000002	8.298265334	12.22290005	0.678911331	-0.558705
GLI3	878.7862988	1294.516232	0.678853055	-0.558829
CDK17	960.1092991	1414.522887	0.678751336	-0.559045
HEATR5B	1522.731689	2243.457745	0.6787432	-0.559062
TC2N	272.1831029	401.133356	0.678535202	-0.559504
STK16	115.3458881	170.0094279	0.678467598	-0.559648
BMT2	90.45109214	133.3407278	0.678345571	-0.559908
ENSG000002	351.0166236	517.8064929	0.677891507	-0.560874
PATJ	4128.387003	6092.560086	0.677611209	-0.56147
GDF15	186.71097	275.5708374	0.677542558	-0.561617
GON4L	2108.589221	3112.394821	0.677481278	-0.561747
TRIM23	282.9708479	417.800947	0.677286277	-0.562162
TKT	1161.757147	1715.650697	0.677152493	-0.562447
GIPC1	201.6478476	297.794292	0.677138055	-0.562478
CD63	1378.341872	2036.779617	0.676726073	-0.563356
FOXP4	1063.007789	1571.198242	0.676558668	-0.563713
RNF215	63.89664307	94.44968217	0.676515173	-0.563806
UQCC3	103.7283167	153.3418369	0.676451507	-0.563942
CCNDBP1	214.9250721	317.7954012	0.676300133	-0.564264
MUL1	222.3935109	328.9071285	0.676158987	-0.564566
EIF3FP3	55.59837774	82.22678213	0.676158987	-0.564566
RCHY1	166.7951332	246.6803464	0.676158987	-0.564566
LONP1	1172.544892	1735.651807	0.675564585	-0.565834
SDAD1	346.0376644	512.2506292	0.675524137	-0.565921
BAZ2A	1815.660455	2687.926837	0.675487305	-0.565999
DNM3	133.6020719	197.7887462	0.675478633	-0.566018
ABCA2	2723.490683	4032.445842	0.675394237	-0.566198
DAB2IP	807.421217	1195.621859	0.675314867	-0.566368
LSM7	429.8501443	636.7019751	0.675119854	-0.566784
SRRM2	33543.17828	23211.90779	0.692000847	-0.531154
RPL6P27	321.3875856	222.3935109	0.691979158	-0.5312
APEH	575.6359837	398.316736	0.691959411	-0.531241
CD47	1322.972184	915.2986663	0.691850273	-0.531468
SNX2	719.8201403	497.89592	0.6916949	-0.531792
COL1A2	12709.11798	8786.203335	0.691330693	-0.532552
HGSNAT	1099.541774	760.1211046	0.691307163	-0.532601
ATF7IP	4026.149959	2783.238193	0.691290245	-0.532637
LUZP1	1416.52679	979.1953094	0.691264942	-0.532689
ANKAR	489.7858753	338.5692256	0.691259676	-0.5327
ARFGEF2	2314.651001	1599.905556	0.691208115	-0.532808
SLC17A9	13.207709	9.128091867	0.691118488	-0.532995
HGFAC	13.207709	9.128091867	0.691118488	-0.532995
GUCA1B	13.207709	9.128091867	0.691118488	-0.532995
IRX4	13.207709	9.128091867	0.691118488	-0.532995
LMNTD1	13.207709	9.128091867	0.691118488	-0.532995
C12orf50	13.207709	9.128091867	0.691118488	-0.532995
EPHX4	13.207709	9.128091867	0.691118488	-0.532995
SNORC	13.207709	9.128091867	0.691118488	-0.532995
CFAP126	13.207709	9.128091867	0.691118488	-0.532995
ENSG000002	13.207709	9.128091867	0.691118488	-0.532995
TECPR1	158.4925079	109.5371024	0.691118488	-0.532995
CHRD	79.24625397	54.7685512	0.691118488	-0.532995
YAE1	182.7066411	126.1336331	0.690361512	-0.534576
MYD88	169.4989321	117.0055412	0.690302527	-0.534699
FCHSD1	156.2912231	107.8774493	0.690233573	-0.534843
TPST2	208.0214167	143.5599903	0.690121203	-0.535078
SCN1A	64.93790256	44.8106328	0.69005359	-0.53522
HSD17B4	2525.974345	1742.63572	0.689886547	-0.535569
ZNHIT1	155.1905807	107.0476228	0.689781701	-0.535788
SDC4	749.5374855	516.9819303	0.68973459	-0.535887
CCDC12	141.9828717	97.91953094	0.689657349	-0.536048
COMMD7	90.25267814	62.23699	0.689586074	-0.536197
RPS28	451.2633907	311.18495	0.689586074	-0.536197
ZFYVE28	128.7751627	88.79143907	0.689507489	-0.536362
RGPD5	244.3426164	168.4547863	0.689420408	-0.536544
ADAM23	115.5674537	79.6633472	0.689323375	-0.536747
USP46	358.8094277	247.2883069	0.689191219	-0.537024
RHBDF2	203.618847	140.2406841	0.688741176	-0.537966
RECK	394.029985	271.3532764	0.68866149	-0.538133
WSB1	2596.41546	1787.446353	0.688428482	-0.538621
SEC14L5	50.62955115	34.8527144	0.688386794	-0.538709
SLC45A1	50.62955115	34.8527144	0.688386794	-0.538709
ENSG000002	25.31477557	17.4263572	0.688386794	-0.538709
SSH1	1021.396162	702.8630738	0.688139529	-0.539227
SLC35F5	1470.458268	1011.558544	0.687920607	-0.539686
TCEAL3	727.5246372	500.3853996	0.68779169	-0.539956
LEKR1	37.42184215	25.72462253	0.687422667	-0.540731
EPHA10	112.2655265	77.1738676	0.687422667	-0.540731
GAK	884.9165027	608.262849	0.687367505	-0.540846
MFSD8	274.0599617	188.3706231	0.687333611	-0.540918
ZNF212	124.372593	85.47213294	0.687226429	-0.541143
DMTN	260.8522527	179.2425312	0.687141972	-0.54132
DLC1	260.8522527	179.2425312	0.687141972	-0.54132
ARHGAP22	86.95075089	59.7475104	0.687141972	-0.54132
POMT1	421.5460454	289.6094601	0.687017381	-0.541581
ARHGEF7	1263.537494	867.9985539	0.68695908	-0.541704
SCYL3	370.9164943	254.7567457	0.686830458	-0.541974
CLPX	1273.443276	874.6371662	0.686828525	-0.541978
GNPTG	432.5524696	297.0778989	0.686801995	-0.542034
LIG3	1357.092099	931.895197	0.686685301	-0.542279
YBX3P1	73.74304189	50.61941854	0.68642976	-0.542816
VPS18	307.0792341	210.7759395	0.686389427	-0.542901
DOP1A	1178.788028	809.08087	0.686366718	-0.542948
CD81	1053.314792	722.7789106	0.686194589	-0.54331
CAMTA2	915.7344904	628.1786858	0.685983429	-0.543754
RPL34	582.2398382	399.1465625	0.685536331	-0.544695
SIX1	266.3554647	182.5618373	0.685406765	-0.544968
CFAP144	24.21413316	16.59653067	0.685406765	-0.544968
NCF4	12.10706658	8.298265334	0.685406765	-0.544968
RHBDL1	12.10706658	8.298265334	0.685406765	-0.544968
IL10	12.10706658	8.298265334	0.685406765	-0.544968
ENSG000001	12.10706658	8.298265334	0.685406765	-0.544968
QRICH1	12.10706658	8.298265334	0.685406765	-0.544968
LRRC8C-DT	12.10706658	8.298265334	0.685406765	-0.544968
HIPK3	4608.389797	3155.00048	0.684621011	-0.546623
LCA5L	130.9764475	89.6212656	0.684254821	-0.547394
UBE2Q2	675.7944436	462.2133791	0.683955578	-0.548025
G6PC3	355.5075005	243.1391743	0.683921363	-0.548098
UBTD1	47.3276239	32.3632348	0.683812795	-0.548327
GSTM3	507.3961539	346.8674909	0.683622626	-0.548728
POMGNT1	919.0364176	628.1786858	0.683518818	-0.548947
IFT20	117.7687385	80.49317374	0.683485063	-0.549018
VPS37B	329.0920825	224.8829905	0.683343667	-0.549317
SLC41A2	457.8672452	312.8446031	0.683264869	-0.549483
ZFP36	750.6381279	512.8327976	0.683195775	-0.549629
PLK2	596.5481896	407.4448279	0.683004047	-0.550034
RUSC2	651.5803104	444.7870219	0.682628089	-0.550828
DNAJC19	186.0085684	126.9634596	0.682567802	-0.550956
MTMR12	1180.989313	805.7615639	0.682276762	-0.551571
NFAM1	46.22698148	31.53340827	0.682142923	-0.551854
ALPK2	23.11349074	15.76670413	0.682142923	-0.551854
TSC1	2227.700251	1519.412383	0.682054232	-0.552042
KMT2A	5353.524713	3649.577094	0.681714812	-0.55276
SRPK2	1207.404731	822.3580946	0.681095637	-0.554071
GIPC1	296.07281	201.6478476	0.681075198	-0.554114
NBPF3	204.7194894	139.4108576	0.680984786	-0.554306
CPT1C	34.11991491	23.23514293	0.680984786	-0.554306
SNX31	34.11991491	23.23514293	0.680984786	-0.554306
PTPRO	68.23982981	46.47028587	0.680984786	-0.554306
SIRPA	454.5653179	309.5252969	0.680925897	-0.55443

ENSG000002	62.73661773	4.444690926	0.070846837	-3.819153
LXN	346.7023611	24.44580009	0.070509471	-3.826039
CELF5	47.3276239	3.333518194	0.070434937	-3.827565
MMP26	31.91863007	2.222345463	0.06962534	-3.844244
PHYHIP	31.91863007	2.222345463	0.06962534	-3.844244
CST2	31.91863007	2.222345463	0.06962534	-3.844244
RAB4A-AS1	31.91863007	2.222345463	0.06962534	-3.844244
NUTM2B-AS	112.2655265	7.77820912	0.069284039	-3.851333
AVPR1A	96.85653263	6.667036389	0.068834143	-3.860732
SLC38A1	1545.301952	104.4502368	0.067592121	-3.887001
NME8	16.50963624	1.111172731	0.067304495	-3.893153
CCL17	16.50963624	1.111172731	0.067304495	-3.893153
MT-TP	16.50963624	1.111172731	0.067304495	-3.893153
LLPHP3	16.50963624	1.111172731	0.067304495	-3.893153
EPM2A-DT	16.50963624	1.111172731	0.067304495	-3.893153
ZBED6	16.50963624	1.111172731	0.067304495	-3.893153
POC1B-AS1	16.50963624	1.111172731	0.067304495	-3.893153
HERPUD2-AS	16.50963624	1.111172731	0.067304495	-3.893153
ENSG000002	16.50963624	1.111172731	0.067304495	-3.893153
ENSG000002	16.50963624	1.111172731	0.067304495	-3.893153
HSPB7	267.4561072	17.7787637	0.066473575	-3.911075
ELF5	117.7687385	7.77820912	0.066046467	-3.920375
SMG1P5	50.62955115	3.333518194	0.065841354	-3.924862
ROBO2	338.9978642	22.22345463	0.065556326	-3.931121
LRRC15	84.74946605	5.555863657	0.065556326	-3.931121
CD96	255.3490406	16.66759097	0.065273756	-3.937353
LINC01106	34.11991491	2.222345463	0.065133382	-3.940459
RAMP2-AS1	34.11991491	2.222345463	0.065133382	-3.940459
LINC01278	239.9400468	15.55641824	0.064834605	-3.947092
PDLIM3	2048.295537	132.229555	0.064555897	-3.953307
ST6GALNAC	709.9143585	45.55808199	0.064174053	-3.961866
LY6K	156.2912231	10.00055458	0.063986668	-3.966085
MESP1	86.95075089	5.555863657	0.063896673	-3.968115
ENPP3	104.5610295	6.667036389	0.063762153	-3.971156
SPECC1L	35.22055732	2.222345463	0.063097964	-3.986263
TMEM14C	35.22055732	2.222345463	0.063097964	-3.986263
CXCL3	35.22055732	2.222345463	0.063097964	-3.986263
ENSG000002	35.22055732	2.222345463	0.063097964	-3.986263
HDHD2	17.61027866	1.111172731	0.063097964	-3.986263
ELL2P1	17.61027866	1.111172731	0.063097964	-3.986263
LINC01409	17.61027866	1.111172731	0.063097964	-3.986263
ENSG000002	17.61027866	1.111172731	0.063097964	-3.986263
SNHG1	17.61027866	1.111172731	0.063097964	-3.986263
LINC03073	17.61027866	1.111172731	0.063097964	-3.986263
ENSG000002	17.61027866	1.111172731	0.063097964	-3.986263
ENSG000002	17.61027866	1.111172731	0.063097964	-3.986263
IL7R	391.8287002	24.44580009	0.062388998	-4.002565
LINC00342	53.9314784	3.333518194	0.061810251	-4.01601
C1QTNF7	161.7944352	10.00055458	0.061810251	-4.01601
MCM8	72.64239948	4.444690926	0.061185905	-4.030657
NPR3	1120.45398	67.78153662	0.060494708	-4.047047
MFAP2	128.7751627	7.77820912	0.06040147	-4.049273
DACT3	221.2291257	13.33407278	0.060272682	-4.052352
RAB3B	1053.314792	63.33684569	0.060130975	-4.055748
FILIP1L	5641.893026	338.9076831	0.060069853	-4.057215
CD52	111.164884	6.667036389	0.059974303	-4.059512
GBP5	279.5631737	16.66759097	0.059620124	-4.068057
COL15A1	3061.987202	182.232328	0.059514399	-4.070617
BIVM	18.71092108	1.111172731	0.059386319	-4.073726
SYCP3	18.71092108	1.111172731	0.059386319	-4.073726
NMUR1	18.71092108	1.111172731	0.059386319	-4.073726
ENSG000002	18.71092108	1.111172731	0.059386319	-4.073726
SUCLG2-DT	18.71092108	1.111172731	0.059386319	-4.073726
ENSG000002	18.71092108	1.111172731	0.059386319	-4.073726
ENSG000002	18.71092108	1.111172731	0.059386319	-4.073726
SCUBE3-AS1	18.71092108	1.111172731	0.059386319	-4.073726
ENSG000002	18.71092108	1.111172731	0.059386319	-4.073726
RALY-AS1	18.71092108	1.111172731	0.059386319	-4.073726
ENSG000002	18.71092108	1.111172731	0.059386319	-4.073726
ACTA2	11409.25929	676.7041934	0.059311843	-4.075536
MYL9	5475.696021	320.0177467	0.0584433	-4.096819
COL14A1	2598.616745	150.0083187	0.057726219	-4.114629
SKA2	135.3790172	7.77820912	0.057455057	-4.121422
PRSS8	1109.447556	63.33684569	0.057088634	-4.130653
BANK1	890.4197148	50.00277291	0.056156408	-4.154406
SFRP1	1702.693818	95.5608549	0.056123335	-4.155255
AGTR1	79.24625397	4.444690926	0.056087079	-4.156188
SNHG6	39.62312699	2.222345463	0.056087079	-4.156188
PLBD1-AS1	39.62312699	2.222345463	0.056087079	-4.156188
BBOX1	19.81156349	1.111172731	0.056087079	-4.156188
TRAJ29	19.81156349	1.111172731	0.056087079	-4.156188
LINC00885	19.81156349	1.111172731	0.056087079	-4.156188
GOT2P7	19.81156349	1.111172731	0.056087079	-4.156188
TMEM11-DT	19.81156349	1.111172731	0.056087079	-4.156188
ENSG000002	19.81156349	1.111172731	0.056087079	-4.156188
ENSG000002	19.81156349	1.111172731	0.056087079	-4.156188
ENSG000002	19.81156349	1.111172731	0.056087079	-4.156188
ITK	100.1584599	5.555863657	0.055470738	-4.172129
GABRP	200.3169198	11.11172731	0.055470738	-4.172129
ENSG000002	102.3597447	5.555863657	0.054277819	-4.203493
FAM133B	123.2719506	6.667036389	0.054083969	-4.208655
CISH	166.1970049	8.889381852	0.053487016	-4.224667
PCDH11Y	20.91220591	1.111172731	0.053135128	-4.23419
DDIT4L	20.91220591	1.111172731	0.053135128	-4.23419
AGAP6	20.91220591	1.111172731	0.053135128	-4.23419
ENSG000002	20.91220591	1.111172731	0.053135128	-4.23419
PRR5-ARHG	20.91220591	1.111172731	0.053135128	-4.23419
ENSG000002	20.91220591	1.111172731	0.053135128	-4.23419
PAMR1	424.8479727	22.22345463	0.052309193	-4.256792
GPNMB	3317.336243	173.3429461	0.052253656	-4.258324
CD3D	127.6745203	6.667036389	0.052219005	-4.259281
RALB	186.71097	276.6820101	0.674821503	-0.567422
SMOX	62.23699	92.22733671	0.674821503	-0.567422
BTBD6	256.4163988	380.0210742	0.674742577	-0.567591
CREG1	473.8309506	702.2611663	0.674721846	-0.567635
MINPP1	23.23514293	34.44635467	0.674531257	-0.568043
SSUH2	46.47028587	68.89270935	0.674531257	-0.568043
VPS50	316.9937357	470.0260654	0.674417355	-0.568286
TMLHE	30.70358173	45.55808199	0.673943687	-0.5693
BDNF-AS	30.70358173	45.55808199	0.673943687	-0.5693
LAPTM4A	1550.115964	2300.127554	0.673926088	-0.569338
ECPAS	5778.911978	8578.253487	0.673669994	-0.569886
PSMB5	768.4193699	1141.174395	0.673358404	-0.570553
SIAH2	349.3569705	518.9176656	0.673241621	-0.570804
CFAP119	60.57733694	90.00499125	0.673044196	-0.571227
SEC61A1	1975.816976	2935.718356	0.673026747	-0.571264
POM121C	604.1137163	897.827567	0.672861626	-0.571618
TANGO2	75.51421454	112.2284459	0.672861626	-0.571618
TGFB1I1	90.45109214	134.4519005	0.672739409	-0.57188
SLC25A37	255.5865723	380.0210742	0.672558944	-0.572267
EPB41L3	150.1986025	223.345719	0.672493761	-0.572407
MICU1	814.0598292	1211.178277	0.672122217	-0.573205
RSPH6A	14.9368776	22.22345463	0.672122217	-0.573205
HTRA4	14.9368776	22.22345463	0.672122217	-0.573205
HAP1	14.9368776	22.22345463	0.672122217	-0.573205
CRPPA	14.9368776	22.22345463	0.672122217	-0.573205
MAEL	7.4684388	11.11172731	0.672122217	-0.573205
BOLL	7.4684388	11.11172731	0.672122217	-0.573205
KLF13	7.4684388	11.11172731	0.672122217	-0.573205
SSTR3	7.4684388	11.11172731	0.672122217	-0.573205
JRK	424.0413586	631.1461115	0.671859259	-0.573769
TP53INP1	512.0029711	763.3756665	0.670709054	-0.576241
NIPAL1	152.6880821	227.7904099	0.670300748	-0.57712
FAM98A	362.6341951	541.1411202	0.670128699	-0.57749
CAD	1745.955026	2605.700055	0.670052189	-0.577655
ANKRD42	180.0723577	268.903801	0.669653449	-0.578513
FCHSD1	107.8774493	161.1200461	0.669547036	-0.578743
MAP3K14-A	43.15097974	64.44801842	0.669547036	-0.578743
PLA2G4F	35.68254093	53.33629111	0.66901054	-0.579899
ENSG000002	263.8848376	394.4663197	0.668966714	-0.579994
SS18L2	49.789592	74.44857301	0.668778326	-0.5804
TMEM38A	127.7932861	191.1217098	0.668648717	-0.58068
MINDY2	262.2251845	392.2439742	0.668525718	-0.580945
U2AF1L4	92.1107452	137.7854187	0.668508657	-0.580982
ACADS	106.2177963	158.8977006	0.668466541	-0.581073
PRDX3	849.7423702	1271.181605	0.668466541	-0.581073
TAF6L	282.9708479	423.3568107	0.668398006	-0.581221
RNF180	148.5389495	222.2345463	0.668388205	-0.581242
TECPR2	487.9380016	730.0404846	0.668371155	-0.581279
SLC13A5	14.10705107	21.1122819	0.668191678	-0.581666
CATSPER3	14.10705107	21.1122819	0.668191678	-0.581666
SLC9A8	371.7622869	556.6975385	0.667799409	-0.582513
RPL36	956.789993	1433.412824	0.667490884	-0.58318
INF2	780.8667679	1170.064886	0.667370483	-0.58344
SLC4A1	34.8527144	52.22511838	0.667355393	-0.583473
EIF2AK4	831.4861864	1246.735805	0.666930542	-0.584392
MED28	304.5463377	456.6919926	0.666852808	-0.58456
UROS	276.3322356	414.4674288	0.666716409	-0.584855
SOD2	1398.257709	2097.894117	0.666505377	-0.585312
TP53I11	851.4020232	1277.848641	0.666277676	-0.585805
ZMIZ2	994.9620135	1493.416151	0.666232257	-0.585903
SEC22C	205.7969803	308.9060193	0.66621227	-0.585946
CUEDC2	185.0513169	277.7931829	0.666147798	-0.586086
CRELD2	267.2041437	401.133356	0.666122973	-0.58614
COG3	416.5729197	625.5902478	0.665887809	-0.586649
LGALS9	61.40716347	92.22733671	0.665823883	-0.586787
SYNRG	68.04577574	102.2278913	0.665628283	-0.587211
BARX2	47.3001124	71.11505481	0.665120944	-0.588311
ZBTB7B	532.7486344	801.1555394	0.664975287	-0.588627
KCNJ6	60.57733694	91.11616398	0.66483634	-0.588929
PCDH7	327.7814807	493.3606928	0.664385075	-0.589908
CHKA	387.5289911	583.365684	0.664298572	-0.590096
THAP12P7	13.27722453	20.00110917	0.663824412	-0.591126
TMC2	6.638612267	10.00055458	0.663824412	-0.591126
NUDT13	6.638612267	10.00055458	0.663824412	-0.591126
CPN2	6.638612267	10.00055458	0.663824412	-0.591126
PRMT5-AS1	6.638612267	10.00055458	0.663824412	-0.591126
ENSG000002	6.638612267	10.00055458	0.663824412	-0.591126
BBLN	59.7475104	90.00499125	0.663824412	-0.591126
CDH11	789.9948598	1190.065995	0.663824412	-0.591126
ENSG000002	19.9158368	30.00166375	0.663824412	-0.591126
MRTFA	381.7202053	575.5874749	0.663183655	-0.59252
THSD1	78.83352067	118.8954823	0.663048916	-0.592813
RNF40	766.7597168	1156.730813	0.662867893	-0.593207
BTK	52.2790716	78.89326393	0.662655707	-0.593669
SLC35D1	136.921378	206.678128	0.662486056	-0.594038
TP53RK	136.921378	206.678128	0.662486056	-0.594038
PRRC2B	4738.309506	7153.730045	0.66235509	-0.594323
CRYAB	39.00184707	58.89215477	0.662258789	-0.594533
AATK	78.00369414	117.7843095	0.662258789	-0.594533
SETD7	695.394635	1050.058231	0.662243878	-0.594565
ALPL	188.3706231	284.4602192	0.662203747	-0.594653
ECSIT	297.9077255	450.0249562	0.661980455	-0.595139
SPINT2	3023.887888	4568.031099	0.661967448	-0.595168
ATF6B	32.3632348	48.89160018	0.661938547	-0.595231
IFFO2	155.1775617	234.4574463	0.661858108	-0.595406
HDAC4	722.7789106	1092.282795	0.661714085	-0.59572
SLC46A3	25.72462253	38.8910456	0.661453611	-0.596288
PTCH1	1071.306055	1620.089842	0.661263361	-0.596703
DCHS1	645.605043	976.7208309	0.660992397	-0.597294
GLTP	408.2746544	617.8120387	0.66083959	-0.597628
TBC1D9	1326.0628	2006.777953	0.660791992	-0.597732
TLN1	6976.972277	4750.756904	0.680919562	-0.554444
LRIG2	1055.516077	718.6297779	0.680832621	-0.554628
AUP1	362.1113355	246.4584804	0.680615167	-0.555089
FTSJ3	723.1220675	492.0871343	0.68050355	-0.555325
GFRA2	45.12633907	30.70358173	0.680391593	-0.555563
ARMC2	135.3790172	92.1107452	0.680391593	-0.555563
TLR4	381.9229185	259.7357049	0.680073628	-0.556237
ZFP14	505.1948691	343.5481848	0.680031025	-0.556328
FOXP1	324.6895128	220.7338579	0.679830574	-0.556753
ACACB	985.0749626	669.6700124	0.679816296	-0.556783
ZNF414	212.4239863	144.3898168	0.679724636	-0.556978
TAF1D	769.349049	522.790716	0.67952345	-0.557405
DNM2	2608.522527	1772.509475	0.679507061	-0.55744
GUSBP11	100.1584599	68.04577574	0.679381211	-0.557707
KANSL2	422.6466879	287.1199805	0.679338059	-0.557798
ACADSB	655.9828801	445.6168484	0.679311705	-0.557854
EPS15L1	882.7152179	599.1347571	0.678740714	-0.559068
BMP2K	1433.036426	972.5566971	0.678668511	-0.559221
C19orf18	33.01927249	22.4053164	0.678552697	-0.559467
FAM135B	154.0899383	104.5581432	0.678552697	-0.559467
FCER1G	154.0899383	104.5581432	0.678552697	-0.559467
GGACT	22.01284833	14.9368776	0.678552697	-0.559467
HES2	11.00642416	7.4684388	0.678552697	-0.559467
SLC26A8	11.00642416	7.4684388	0.678552697	-0.559467
HOXC13	11.00642416	7.4684388	0.678552697	-0.559467
ROPN1L	11.00642416	7.4684388	0.678552697	-0.559467
SLC2A14	11.00642416	7.4684388	0.678552697	-0.559467
DSG4	11.00642416	7.4684388	0.678552697	-0.559467
CDKL4	11.00642416	7.4684388	0.678552697	-0.559467
ENSG000002	11.00642416	7.4684388	0.678552697	-0.559467
WASH8P	11.00642416	7.4684388	0.678552697	-0.559467
MTCO2P19	11.00642416	7.4684388	0.678552697	-0.559467
MIR200CHG	11.00642416	7.4684388	0.678552697	-0.559467
ENSG000002	11.00642416	7.4684388	0.678552697	-0.559467
FAM86JP	11.00642416	7.4684388	0.678552697	-0.559467
DOCK6	1249.229142	847.2528906	0.678220562	-0.560174
SLC35C2	479.8800935	325.2920011	0.677861002	-0.560939
TPST1	304.8779493	206.6268068	0.677736147	-0.561204
LARP7	565.730202	383.3798584	0.677672603	-0.56134
CARD6	184.9079259	125.3038065	0.677655141	-0.561377
RBMS1	858.5010847	581.7083999	0.677586098	-0.561524
TCEAL4	727.5246372	492.9169608	0.677526142	-0.561651
CYB5R1	335.695937	227.3724701	0.677316718	-0.562097
EIF2AK1	2728.49255	1848.02369	0.677305749	-0.562121
GOLIM4	1555.207734	1053.049871	0.677112033	-0.562534
SLC25A28	269.657392	182.5618373	0.677014029	-0.562742
AFDN	6870.209963	4651.17772	0.677006634	-0.562758
IVD	204.7194894	138.5810311	0.676931305	-0.562919
PRKD1	603.1520441	408.2746544	0.676901717	-0.562982
ENSG000002	290.5695979	196.6688884	0.67683918	-0.563115
VNN2	203.618847	137.7512045	0.676515001	-0.563806
BVES	106.7623144	72.1949084	0.676220901	-0.564433
ACAT1	522.8051477	353.5061032	0.67617181	-0.564538
GNG7	63.83726015	43.15097974	0.675952878	-0.565005
RAB38	31.91863007	21.57548987	0.675952878	-0.565005
LAMA4	1892.004314	1278.762688	0.675877258	-0.565167
CABIN1	1994.364058	1347.63829	0.675723314	-0.565495
CCS	275.1606041	185.8811435	0.675536907	-0.565894
DTWD1	369.8158519	249.7777865	0.675411249	-0.566162
RND3	728.6252796	492.0871343	0.675363795	-0.566263
CNTNAP1	305.9785917	206.6268068	0.675298248	-0.566403
ZNF248	822.179885	555.1539508	0.675222006	-0.566566
ZNF41	1189.794452	803.2720843	0.675135174	-0.566752
DIDO1	3112.616753	2101.120782	0.675033565	-0.566969
GLUD1	1365.897239	921.9372786	0.674968257	-0.567108
ETV3	693.4047223	468.0221648	0.674962471	-0.567121
MSL3	945.4518356	638.1366042	0.674954112	-0.567139
ZNF880	920.13706	620.710247	0.674584553	-0.567929
PPP1R32	20.91220591	14.10705107	0.674584553	-0.567929
TMEM121B	20.91220591	14.10705107	0.674584553	-0.567929
ZCWPW2	20.91220591	14.10705107	0.674584553	-0.567929
SPRED1	480.9807359	324.4621745	0.674584553	-0.567929
KDM2A	2221.096396	1497.836893	0.674368251	-0.568391
ACBD3	2295.94008	1547.626485	0.674070938	-0.569028
TRRAP	5131.194945	3457.887165	0.673895107	-0.569404
FBXL17	507.3961539	341.8885317	0.673809861	-0.569587
AFF3	682.3982981	459.7238995	0.67368852	-0.569846
EML3	391.8287002	263.8848376	0.673469905	-0.570315
CDNF	30.81798766	20.74566333	0.673167358	-0.570963
TMEM120A	92.45396297	62.23699	0.673167358	-0.570963
RBM10	970.7666112	653.0734818	0.67273995	-0.571879
STK17B	632.8693894	425.7010116	0.672652239	-0.572067
KDSR	428.1498999	287.9498071	0.672544376	-0.572299
PCCA	845.2933757	568.4311754	0.672466142	-0.572466
RCSD1	122.1713082	82.1528268	0.67243961	-0.572523
ZFPM2	40.7237694	27.3842756	0.67243961	-0.572523
KIAA2026	6060.137144	4074.448279	0.672335985	-0.572746
IRS2	416.0428334	279.6515417	0.672170073	-0.573102
TBC1D13	202.5182046	136.0915515	0.671996632	-0.573474
SMG1P5	50.62955115	34.02288787	0.671996632	-0.573474
ZBTB40	879.4132906	590.8364918	0.671853039	-0.573782
RFPL3S	60.5353329	40.66150013	0.671698629	-0.574114
AVL9	611.9571835	410.764134	0.671230186	-0.57512
AKAP8L	912.4325631	612.4119816	0.671186021	-0.575215
GOLGA3	2500.65957	1677.90925	0.670986675	-0.575644
PLEKHA7	409.4389789	274.6725825	0.670851083	-0.575936
GIGYF2	2950.822318	1979.136282	0.670706694	-0.576246
MALT1	854.098515	572.580308	0.67039141	-0.576924
RPS14	555.8244202	372.5921135	0.670341388	-0.577032
MIR3667HG	29.71734524	19.9158368	0.670175503	-0.577389
ASB8	307.0792341	205.7969803	0.670175503	-0.577389

COPG2IT1	42.92505424	2.222345463	0.051772689	-4.271665
ENSG000002	42.92505424	2.222345463	0.051772689	-4.271665
DNALI1	258.6509678	13.33407278	0.051552379	-4.277817
CXCL9	172.8008594	8.889381852	0.051442926	-4.280883
CXCL8	44.02569665	2.222345463	0.050478371	-4.308191
TENT5B	22.01284833	1.111172731	0.050478371	-4.308191
KDM7A-DT	22.01284833	1.111172731	0.050478371	-4.308191
ENSG000002	22.01284833	1.111172731	0.050478371	-4.308191
ENSG000002	22.01284833	1.111172731	0.050478371	-4.308191
IL33	66.03854498	3.333518194	0.050478371	-4.308191
INHBA	419.3447606	21.1122819	0.050345882	-4.311982
CRISPLD2	1788.543926	90.00499125	0.050323053	-4.312637
LUM	5053.049333	253.3473828	0.050137524	-4.317965
MT-CYB	7736.415544	387.7992833	0.050126481	-4.318283
RGS2	466.6723845	23.33462736	0.05000216	-4.321866
MACC1	466.6723845	23.33462736	0.05000216	-4.321866
FAT2	913.5332055	45.55808199	0.049870198	-4.325678
VDR	89.15203572	4.444690926	0.049855182	-4.326113
SNHG17	89.15203572	4.444690926	0.049855182	-4.326113
EPHA3	1978.955065	97.78320037	0.049411531	-4.339008
DCDC2	1982.256992	97.78320037	0.049329225	-4.341414
P2RY10	45.12633907	2.222345463	0.049247192	-4.343815
N4BP2L2-IT2	45.12633907	2.222345463	0.049247192	-4.343815
HGF	655.9828801	32.22400921	0.049123247	-4.34745
ENSG000002	68.23982981	3.333518194	0.048850037	-4.355497
MT-ATP6	6394.732439	310.0171921	0.048480088	-4.366464
LMOD1	2797.833022	135.5630732	0.048452882	-4.367274
EEF1B2	483.1820208	23.33462736	0.048293658	-4.372022
STN1	23.11349074	1.111172731	0.048074639	-4.37858
DET1	23.11349074	1.111172731	0.048074639	-4.37858
OLMALINC	23.11349074	1.111172731	0.048074639	-4.37858
MEIS2	1165.580319	55.55863657	0.047666073	-4.390893
MTND2P28	424.8479727	20.00110917	0.047078274	-4.408795
TPSB2	190.411138	8.889381852	0.046685199	-4.420891
CNKSR2	338.9978642	15.55641824	0.045889428	-4.445694
NKD2	24.21413316	1.111172731	0.045889428	-4.445694
CHST6	24.21413316	1.111172731	0.045889428	-4.445694
APTR	24.21413316	1.111172731	0.045889428	-4.445694
CASC15	24.21413316	1.111172731	0.045889428	-4.445694
CD40	147.4860838	6.667036389	0.045204512	-4.467389
RASD2	123.2719506	5.555863657	0.045069974	-4.47169
ITGA8	3644.22704	163.3423915	0.044822232	-4.479642
LDB3	175.0021442	7.77820912	0.044446365	-4.491791
WNT7B	602.0514017	26.66814555	0.044295463	-4.496697
ANGPTL2	376.4197064	16.66759097	0.044279273	-4.497225
MYOCD	402.8351244	17.7787637	0.044134095	-4.501963
IGLV2-11	101.2591023	4.444690926	0.043894236	-4.509825
LRRC63	25.31477557	1.111172731	0.043894236	-4.509825
ENSG000002	25.31477557	1.111172731	0.043894236	-4.509825
TRIM29	561.3276323	24.44580009	0.043549967	-4.521185
MIR100HG	102.3597447	4.444690926	0.043422255	-4.525422
MT-ND4	16911.37073	728.9293118	0.043102911	-4.536071
MT-ATP8	775.9529035	33.33518194	0.042960316	-4.540852
NEXN	805.6702487	34.44635467	0.042754905	-4.547766
TNFSF13B	78.14561156	3.333518194	0.042657779	-4.551047
CDH13	78.14561156	3.333518194	0.042657779	-4.551047
MT-CO2	5159.811648	220.0122008	0.04263958	-4.551663
ENSG000002	104.5610295	4.444690926	0.042508102	-4.556118
SDHB	52.83083598	2.222345463	0.042065309	-4.571225
ORC6	26.41541799	1.111172731	0.042065309	-4.571225
ISL2	26.41541799	1.111172731	0.042065309	-4.571225
NR2F2-AS1	26.41541799	1.111172731	0.042065309	-4.571225
SLC38A4-AS	26.41541799	1.111172731	0.042065309	-4.571225
LRCH2	529.4090022	22.22345463	0.041977856	-4.574228
MUC4	450.1627483	18.88993643	0.04196246	-4.574757
SLC14A1	346.7023611	14.44524551	0.041664687	-4.585031
FSBP	53.9314784	2.222345463	0.041206834	-4.600973
MXRA5	6556.526874	270.0149737	0.041182623	-4.60182
CHRDL1	545.9186385	22.22345463	0.040708364	-4.618531
MT-ND2	8914.10293	362.2423104	0.04063699	-4.621063
DIAPH3	55.03212081	2.222345463	0.040382697	-4.630119
TMEM255A	27.51606041	1.111172731	0.040382697	-4.630119
CKMT2	27.51606041	1.111172731	0.040382697	-4.630119
MZB1	27.51606041	1.111172731	0.040382697	-4.630119
DYNLT2B	27.51606041	1.111172731	0.040382697	-4.630119
EFCAB15P	27.51606041	1.111172731	0.040382697	-4.630119
ENSG000002	27.51606041	1.111172731	0.040382697	-4.630119
CSF2RA	27.51606041	1.111172731	0.040382697	-4.630119
ENSG000002	167.2976473	6.667036389	0.039851346	-4.649228
TCF7	168.3982897	6.667036389	0.039590879	-4.658688
CCDC169	56.13276323	2.222345463	0.039590879	-4.658688
TRAC	198.1156349	7.77820912	0.039260955	-4.670761
PYHIN1	113.3661689	4.444690926	0.039206502	-4.672763
NPY	2070.308385	81.11560939	0.039180448	-4.673722
LRRC26	143.0835141	5.555863657	0.038829516	-4.686702
ENSG000002	28.61670282	1.111172731	0.038829516	-4.686702
KRT5	522.8051477	20.00110917	0.038257292	-4.708121
CHORDC1	58.33404806	2.222345463	0.038096884	-4.714183
UNC5A	264.1541799	10.00055458	0.037858778	-4.723228
EXO1	29.71734524	1.111172731	0.037391386	-4.74115
ENSG000002	29.71734524	1.111172731	0.037391386	-4.74115
MT-ND4L	1844.67669	68.89270935	0.037346766	-4.742873
CHRNA2	182.7066411	6.667036389	0.036490389	-4.77634
ANO5	337.8972218	12.22290005	0.036173426	-4.788926
RBM24	61.63597531	2.222345463	0.03605598	-4.793618
TJP2	30.81798766	1.111172731	0.03605598	-4.793618
GATA2-AS1	30.81798766	1.111172731	0.03605598	-4.793618
ENSG000002	30.81798766	1.111172731	0.03605598	-4.793618
ENSG000002	30.81798766	1.111172731	0.03605598	-4.793618
CCL19	124.372593	4.444690926	0.0357369	-4.806442
HLA-DQA1	662.5867346	23.33462736	0.035217468	-4.827565
SCYL3	254.7567457	385.5769378	0.660715724	-0.597898
CNPPD1	381.7202053	577.8098203	0.660632949	-0.598079
PRR5L	19.08601027	28.89049102	0.660632949	-0.598079
ARHGEF3	165.1354801	250.0138646	0.66050529	-0.598358
SFT2D1	139.4108576	211.122819	0.660330599	-0.59874
UBE2V1	69.7054288	105.5614095	0.660330599	-0.59874
BRI3	253.0970927	383.3545923	0.660216671	-0.598989
MARK4	335.2499195	507.8059383	0.660192988	-0.59904
PPP4C	484.6186955	734.4851755	0.65980732	-0.599883
HSD17B12	477.9800832	724.4846209	0.65975187	-0.600005
MARCHF6	5686.801233	8624.922741	0.65934518	-0.600894
CXXC1	406.6150013	616.7008659	0.659339112	-0.600907
OSBPL9	940.1934623	1426.745787	0.658977563	-0.601699
NKX2-2	12.447398	18.88993643	0.65894335	-0.601774
COL5A3	292.0989397	443.3579198	0.658833251	-0.602015
ZNF577	292.0989397	443.3579198	0.658833251	-0.602015
CRK	80.49317374	122.2290005	0.658543991	-0.602648
EDEM2	377.5710727	573.3651294	0.658517676	-0.602706
FMO4	55.59837774	84.44912759	0.65836533	-0.60304
IGSF1	98.74935747	150.0083187	0.658292542	-0.603199
ISOC2	271.3532764	412.2450834	0.658232899	-0.60333
SLC29A4	172.6039189	262.2367646	0.658198782	-0.603405
PEBP1	794.973819	1207.844759	0.658175492	-0.603456
ANKS1B	639.7962572	972.27614	0.658039657	-0.603754
JAK1	2946.71402	4478.026108	0.658038598	-0.603756
WDR7	848.0827171	1288.960368	0.657958722	-0.603931
UBR2	1682.88821	2557.919628	0.657912857	-0.604032
CCDC183-A	30.70358173	46.66925472	0.657897408	-0.604065
RPS4Y1	141.0705107	214.4563372	0.657805279	-0.604268
ELK3	238.9900416	363.3534832	0.65773428	-0.604423
ZFYVE16	1916.069466	2913.494902	0.657653276	-0.604601
CNDP2	610.7523286	928.9404035	0.657472025	-0.604999
EIF2B5	560.13291	852.269485	0.657225115	-0.60554
PLAG1	18.25618373	27.77931829	0.657186168	-0.605626
CYP20A1	443.9571954	675.5930207	0.657137036	-0.605734
SLC45A4	721.1192575	1097.838659	0.656853584	-0.606356
CSNK1G2	440.6378892	671.1483298	0.656543225	-0.607038
ARMC6	331.1007868	504.4724201	0.6563308	-0.607505
MIA2	468.8519914	714.4840663	0.656210563	-0.607769
RPLP2	857.210809	1306.739132	0.6559923	-0.608249
MINDY1	113.6862351	173.3429461	0.655845753	-0.608572
PNISR	2020.627609	3081.281984	0.655774973	-0.608727
TOR4A	59.7475104	91.11616398	0.655728992	-0.608828
P3H4	220.7338579	336.6853376	0.655608763	-0.609093
ACTG1	441.4677158	673.3706753	0.655608763	-0.609093
TRIM4	160.9863475	245.5691736	0.655564154	-0.609191
ARL10	101.2388371	154.4530097	0.655466911	-0.609405
MUC3A	482.1292159	735.5963482	0.655426331	-0.609494
PRRC2A	71.36508187	108.8949277	0.655357264	-0.609646
FAM13B	648.0945226	988.943731	0.655340139	-0.609684
LTBP1	754.3123188	1151.17495	0.655254285	-0.609873
C1orf122	41.49132667	63.33684569	0.65508988	-0.610235
AKT1	1810.681496	2764.597756	0.654952964	-0.610537
KIAA1958	822.3580946	1255.625187	0.654939152	-0.610567
HEXIM2-AS	112.026582	171.1206006	0.654664497	-0.611172
INSR	2939.245581	4490.249008	0.654584095	-0.61135
EHD2	175.9232251	268.903801	0.654223646	-0.612144
LAMTOR4	93.77039827	143.3412824	0.654175801	-0.61225
PAN2	415.7430932	635.5908024	0.654104955	-0.612406
SNX31	23.23514293	35.55752741	0.653452156	-0.613846
GDPGP1	23.23514293	35.55752741	0.653452156	-0.613846
BTBD16	11.61757147	17.7787637	0.653452156	-0.613846
GRIA4	11.61757147	17.7787637	0.653452156	-0.613846
SIGLEC5.1	11.61757147	17.7787637	0.653452156	-0.613846
GSG1	5.808785734	8.889381852	0.653452156	-0.613846
CHRNB4	5.808785734	8.889381852	0.653452156	-0.613846
TNFRSF8	5.808785734	8.889381852	0.653452156	-0.613846
OPN5	5.808785734	8.889381852	0.653452156	-0.613846
SEPTIN12	5.808785734	8.889381852	0.653452156	-0.613846
RAB40A	5.808785734	8.889381852	0.653452156	-0.613846
PURG	5.808785734	8.889381852	0.653452156	-0.613846
C9orf131	5.808785734	8.889381852	0.653452156	-0.613846
HSBP1L1	5.808785734	8.889381852	0.653452156	-0.613846
TMEM230P2	5.808785734	8.889381852	0.653452156	-0.613846
ABHD17A	162.6460005	248.9026918	0.653452156	-0.613846
RCBTB2	127.7932861	195.5664007	0.653452156	-0.613846
DLG2	196.6688884	301.1278102	0.65310769	-0.614607
SGK1	438.9782362	672.2595025	0.652989262	-0.614869
MPP1	363.4640216	556.6975385	0.652893172	-0.615081
SEMA3D	207.4566333	317.7954012	0.652799356	-0.615288
KDSR	287.9498071	441.1355744	0.652746738	-0.615405
FBXO38	580.8785734	890.0493579	0.65263636	-0.615649
NCOR2	3842.096849	5888.104304	0.652518476	-0.615909
HOMEZ	475.4906036	728.9293118	0.652313737	-0.616362
ZBTB1	989.1532278	1516.750778	0.652152774	-0.616718
RUSC1	228.2022967	350.0194104	0.651970405	-0.617122
ZNF442	170.9442659	262.2367646	0.651869947	-0.617344
CYTH2	819.868615	1257.847532	0.651802857	-0.617492
KLHL13	273.0129295	418.9121198	0.651718861	-0.617678
BCR	642.2857368	985.6102128	0.651663029	-0.617802
KLHDC4	272.1831029	417.800947	0.651465979	-0.618238
DHRS1	34.02288787	52.22511838	0.651465979	-0.618238
HECTD4	7332.347249	11258.40211	0.65127779	-0.618655
N4BP2L1	146.8792964	225.5680645	0.651152887	-0.618932
KLK14	28.21410213	43.33573653	0.651058558	-0.619141
C19orf12	84.6423064	130.0072096	0.651058558	-0.619141
TUBB2A	270.5234499	415.5786016	0.650956158	-0.619368
MAPK8IP1	466.3625118	716.7064118	0.650702302	-0.61993
CDK11B	481.2993894	740.0410391	0.650368512	-0.620671
TRMT2B	430.6799708	662.2589479	0.650319595	-0.620779
CCN4	61.40716347	94.44968217	0.650157439	-0.621139
ADAMDEC1	39.62312699	26.55444907	0.670175503	-0.577389
PCDHGC5	39.62312699	26.55444907	0.670175503	-0.577389
CFAP157	19.81156349	13.27722453	0.670175503	-0.577389
TTLL10	19.81156349	13.27722453	0.670175503	-0.577389
TMPRSS7	19.81156349	13.27722453	0.670175503	-0.577389
FAM110C	19.81156349	13.27722453	0.670175503	-0.577389
PAX6	9.905781747	6.638612267	0.670175503	-0.577389
TCP11	9.905781747	6.638612267	0.670175503	-0.577389
KLK10	9.905781747	6.638612267	0.670175503	-0.577389
TRIM17	9.905781747	6.638612267	0.670175503	-0.577389
SNX32	9.905781747	6.638612267	0.670175503	-0.577389
TIMM23B-A(	9.905781747	6.638612267	0.670175503	-0.577389
TMC3	9.905781747	6.638612267	0.670175503	-0.577389
TOMM20L	9.905781747	6.638612267	0.670175503	-0.577389
UGT1A2P	9.905781747	6.638612267	0.670175503	-0.577389
ENSG000002	9.905781747	6.638612267	0.670175503	-0.577389
NDUFA5P11	9.905781747	6.638612267	0.670175503	-0.577389
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APOL2	484.2826632	324.4621745	0.669985112	-0.577799
PCSK7	325.7901552	218.2443783	0.66989249	-0.577999
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APPL1	2888.0857	1934.325649	0.669760475	-0.578283
ADPGK	374.2184215	250.6076131	0.669682727	-0.57845
APOE	285.0663858	190.8601027	0.669528616	-0.578782
YPEL2	137.580302	92.1107452	0.669505328	-0.578833
ARHGAP42	127.6745203	85.47213294	0.669453331	-0.578945
SH3BP2	529.4090022	354.3359297	0.669304693	-0.579265
RCOR3	1858.985041	1243.909974	0.669133934	-0.579633
PELO	224.5310529	150.1986025	0.668943563	-0.580044
UBXN11	506.2955115	338.5692256	0.6687186	-0.580529
AKR1C2	58.33404806	39.00184707	0.668594901	-0.580796
NOM1	320.2869431	214.0952456	0.668448247	-0.581112
MFGE8	948.7537628	633.9874715	0.668231839	-0.581579
LMBRD1	860.7023695	575.0697876	0.668140124	-0.581777
ZNF138	250.9464709	167.6249597	0.667970979	-0.582143
TPK1	38.52248457	25.72462253	0.667782019	-0.582551
ACTB	16580.07736	11069.88596	0.6676619	-0.58281
KLHL22	364.3126398	243.1391743	0.667391542	-0.583395
RAD52	248.7451861	165.9653067	0.667210125	-0.583787
ZNF830	305.9785917	204.1373272	0.667162124	-0.583891
HSD17B6	324.6895128	216.5847252	0.667051804	-0.584129
TRAM1	2720.788053	1814.830628	0.667023889	-0.58419
SENP6	2349.871559	1566.712495	0.666722608	-0.584841
KLF2	133.1777324	88.79143907	0.666713853	-0.58486
SMIM29	75.94432672	50.61941854	0.666533245	-0.585251
SAR1B	427.0492575	284.6305009	0.666505083	-0.585312
MYOM1	369.8158519	246.4584804	0.666435685	-0.585462
SWAP70	464.4710997	309.5252969	0.666403781	-0.585532
COX18	189.3104956	126.1336331	0.666279134	-0.585801
MDFIC	94.6552478	63.06681654	0.666279134	-0.585801
TBC1D10A	141.9828717	94.6002248	0.666279134	-0.585801
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AMPD2	424.8479727	282.9708479	0.666052014	-0.586293
OAS1	132.07709	87.96161254	0.665986906	-0.586434
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IL6R	169.4989321	112.8564085	0.665823714	-0.586788
FRMD6	451.2633907	300.3972051	0.665680424	-0.587098
ZCWPW1	149.6873686	99.579184	0.665247742	-0.588036
UNC5B	374.2184215	248.94796	0.665247742	-0.588036
IDH1	1898.608168	1262.995984	0.665222032	-0.588092
SH3TC1	121.0706658	80.49317374	0.664844562	-0.588911
RBM28	855.1991575	568.4311754	0.664676959	-0.589275
ARL2BP	483.1820208	321.1428684	0.664641594	-0.589352
TNPO3	1140.265543	757.631625	0.664434376	-0.589801
RASA2	703.310504	467.1923383	0.664276071	-0.590145
CNOT3	342.2997915	227.3724701	0.664249514	-0.590203
BMPR1A	1119.353337	743.5245739	0.664244747	-0.590213
TINF2	46.22698148	30.70358173	0.664191793	-0.590328
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LGMN	1579.421867	1048.900738	0.664104227	-0.590518
ETV5	193.7130653	128.6231127	0.663987803	-0.590771
RSBN1L	562.4282747	373.42194	0.663945887	-0.590862
MZF1	276.2612465	183.3916639	0.663834201	-0.591105
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FAM83H	27.51606041	18.25618373	0.663473748	-0.591889
RTN4RL2	82.54818122	54.7685512	0.663473748	-0.591889
YLPM1	7914.719616	5250.312477	0.663360515	-0.592135
PGAP3	255.3490406	169.2846128	0.662953784	-0.59302
ACVR1B	355.5075005	235.6707355	0.66291354	-0.593107
TMEM53	100.1584599	66.38612267	0.662810937	-0.593331
ANO4	136.4796596	90.45109214	0.662744122	-0.593476
PPWD1	654.882277	433.999277	0.662713465	-0.593543
KXD1	527.2077174	349.3569705	0.662655267	-0.59367
SNHG8	72.64239948	48.12993894	0.662559873	-0.593877
MTRES1	199.2162773	131.9424188	0.662307421	-0.594427
RTCB	1067.623144	707.0122064	0.662230124	-0.594595
EPHA7	1229.417579	814.0598292	0.662150797	-0.594768
USF3	4753.674596	3145.872388	0.661776974	-0.595583
USP35	152.9892959	101.2388371	0.661738042	-0.595668
SVIL	5702.428359	3773.221247	0.661686743	-0.59578
LZTS2	422.6466879	279.6515417	0.661667416	-0.595822
DCTN1	1265.738779	837.2949722	0.661506929	-0.596172
LRRC47	313.6830886	207.4566333	0.661357404	-0.596498
CD101	62.73661773	41.49132667	0.661357404	-0.596498
BTD	751.7387703	497.0660935	0.661221841	-0.596794
WDR19	903.6274238	597.475104	0.661196294	-0.596849
RAB43	71.54175706	47.3001124	0.66115391	-0.596942
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IL32	505.1948691	17.7787637	0.035191893	-4.828613
CD44	3605.704556	125.5625187	0.034823296	-4.843803
SNHG11	63.83726015	2.222345463	0.03481267	-4.844244
ENSG000002	31.9863007	1.111172731	0.03481267	-4.844244
POSTN	1975.653137	67.78153662	0.034308419	-4.865294
SH2D2A	66.03854498	2.222345463	0.033652248	-4.893153
TIGAR	33.01927249	1.111172731	0.033652248	-4.893153
DUBR	33.01927249	1.111172731	0.033652248	-4.893153
MOXD1	1853.481829	61.11450023	0.032972808	-4.922579
LTF	2633.837302	86.67147305	0.03290692	-4.925465
GLIPR2	304.8779493	10.00055458	0.03280183	-4.93008
TNS4	408.3383364	13.33407278	0.032654472	-4.936576
GIMAP1	34.11991491	1.111172731	0.032566691	-4.940459
ENSG000002	34.11991491	1.111172731	0.032566691	-4.940459
DIO2	1096.239847	35.55752741	0.032435901	-4.946265
CCND2	205.8201318	6.667036389	0.032392538	-4.948195
KLRB1	35.22055732	1.111172731	0.031548982	-4.986263
PART1	35.22055732	1.111172731	0.031548982	-4.986263
SLC5A4-AS1	35.22055732	1.111172731	0.031548982	-4.986263
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KRT15	463.3704573	14.44524551	0.031174291	-5.003499
MT-ND5	13204.40707	406.6892197	0.030799506	-5.020949
LINC00930	36.32119974	1.111172731	0.030592952	-5.030657
MTATP6P1	1567.314801	47.78042745	0.030485533	-5.035731
MT-ND3	1890.903671	56.6698093	0.029969697	-5.060352
CNTN1	1341.683105	40.00221833	0.029814953	-5.06782
HCAR1	74.84368431	2.222345463	0.02969316	-5.073726
BMERB1	37.42184215	1.111172731	0.02969316	-5.073726
DKK3	751.7387703	22.22345463	0.029562736	-5.080076
LYZ	1434.137068	42.22456379	0.029442488	-5.085957
GRAP2	75.94432672	2.222345463	0.029262824	-5.094787
ARHGAP8	38.52248457	1.111172731	0.028844784	-5.115546
ECM2	39.62312699	1.111172731	0.02804354	-5.156188
AHI1-DT	39.62312699	1.111172731	0.02804354	-5.156188
FOXF1	238.8394043	6.667036389	0.027914307	-5.162851
FAM83D	520.6038629	14.44524551	0.027747096	-5.171519
ARHGAP40	288.3683131	7.77820912	0.026973176	-5.212331
TLR10	41.82441182	1.111172731	0.026567564	-5.23419
LINC00632	2681.164926	68.89270935	0.025695066	-5.282365
LAYN	217.9271984	5.555863657	0.025494127	-5.293691
KRT80	220.1284833	5.555863657	0.025239186	-5.308191
IL1RL2	45.12633907	1.111172731	0.024623596	-5.343815
CDCA7L	320.2869431	7.77820912	0.024285127	-5.363783
COMP	1474.860838	35.55752741	0.024109073	-5.37428
CD69	46.22698148	1.111172731	0.02403732	-5.37858
UBE2V1P1	46.22698148	1.111172731	0.02403732	-5.37858
CCL2	740.7323462	17.7787637	0.024001603	-5.380725
ADAM32	139.7815869	3.333518194	0.023848049	-5.389985
DPP4	1218.411155	28.89049102	0.023711611	-5.398263
GPR174	96.85653263	2.222345463	0.022944714	-5.445694
PITX1	48.42826632	1.111172731	0.022944714	-5.445694
HTR2B	48.42826632	1.111172731	0.022944714	-5.445694
TDRD1	1466.055699	33.33518194	0.022738005	-5.458751
AZGP1	3713.567513	83.33795486	0.022441481	-5.477688
SLC27A6	148.5867262	3.333518194	0.022434832	-5.478116
CPA3	446.860821	10.00055458	0.022379573	-5.481674
ENSG000002	50.62955115	1.111172731	0.021947118	-5.509825
CLDN8	864.0042968	18.88993643	0.021863244	-5.515349
GPR88	103.4603871	2.222345463	0.021480158	-5.540852
LINC00578	51.73019357	1.111172731	0.021480158	-5.540852
PRKY	156.2912231	3.333518194	0.021328889	-5.551047
MSMB	1156.77518	24.44580009	0.021132715	-5.564378
TCF21	158.4925079	3.333518194	0.021032655	-5.571225
COL10A1	555.8244202	11.11172731	0.019991434	-5.644474
KRT7	167.2976473	3.333518194	0.019925673	-5.649228
FAM3B	681.2976557	13.33407278	0.019571582	-5.675096
SPOCK3	1026.899374	20.00110917	0.019477185	-5.682071
HSPB6	465.5717421	8.889381852	0.019093474	-5.710777
WAC-AS1	58.33404806	1.111172731	0.019048442	-5.714183
TMEM130	60.5353329	1.111172731	0.018355771	-5.767622
B2M	183.8072835	3.333518194	0.018135942	-5.785005
SIGLEC6	61.63597531	1.111172731	0.01802799	-5.793618
VGLL3	4801.00222	85.56030032	0.017821342	-5.81025
BCL11A	249.8458285	4.444690926	0.017789734	-5.812811
WDFY1	62.73661773	1.111172731	0.017711709	-5.819153
HOXD10	140.8822293	2.222345463	0.015774491	-5.986263
PTEN	440.2569665	6.667036389	0.015143511	-6.045156
MINAR1	233.3361923	3.333518194	0.014286332	-6.129221
NUDT10	425.9486151	5.555863657	0.013043507	-6.260524
SDCCAG8	171.7002169	2.222345463	0.012943172	-6.271665
UPK3A	85.85010847	1.111172731	0.012943172	-6.271665
PRSS21	96.85653263	1.111172731	0.011472357	-6.445694
FGF7	430.3511848	4.444690926	0.010328056	-6.597288
IL1RL1	112.2655265	1.111172731	0.00989772	-6.658688
HNF1B	115.5674537	1.111172731	0.009614928	-6.700508
IGHG4	122.1713082	1.111172731	0.009095202	-6.780679
ENSG000002	125.4732355	1.111172731	0.008855855	-6.819153
MYH11	782.556758	6.667036389	0.008519556	-6.875006
SV2B	132.07709	1.111172731	0.008413062	-6.893153
EYA4	417.1434758	3.333518194	0.007991299	-6.967354
CD3E	146.3854414	1.111172731	0.007590733	-7.041545
CARMN	610.856541	4.444690926	0.007276162	-7.102607
WFDC1	203.618847	1.111172731	0.005457121	-7.517644
KCNMB1	205.8201318	1.111172731	0.005398756	-7.533157
CNN1	2392.796613	12.22290005	0.005108207	-7.612967
JCHAIN	523.9057902	2.222345463	0.00424188	-7.88108
IGHG3	283.9657434	1.111172731	0.003913052	-7.99749
ACTG2	4841.725989	10.00055458	0.002065494	-8.919298
IGHG1	1579.421867	1.111172731	7.04E-04	-10.4731
DES	4983.708861	1.111172731	2.23E-04	-12.13092
IGKC	12529.71327	0	0	-12.13092
BST2	39.00184707	60.0033275	0.649994737	-0.6215
SLC35D2	39.00184707	60.0033275	0.649994737	-0.6215
AKT2	1095.371024	1685.649034	0.649821524	-0.621885
PAPPA	55.59837774	85.56030032	0.649815131	-0.621899
GTF2IRD1	272.1831029	418.9121198	0.649737952	-0.62207
EGLN1	266.3743172	410.0227379	0.649657428	-0.622249
TAOK2	1723.54971	2653.480483	0.649543014	-0.622503
NIPSNAP1	171.7740924	264.4591101	0.649529874	-0.622532
CARM1	503.7047058	775.5985665	0.649439965	-0.622732
PKP3	132.7722453	204.4557826	0.649393447	-0.622835
NOSTRIN	16.59653067	25.55697282	0.649393447	-0.622835
NECTIN3	463.8730322	714.4840663	0.649241955	-0.623172
UBXN8	60.57733694	93.33850944	0.649006903	-0.623694
BOLA1	60.57733694	93.33850944	0.649006903	-0.623694
PSTK	60.57733694	93.33850944	0.649006903	-0.623694
GPR34	253.0970927	390.0216287	0.648930916	-0.623863
TKFC	203.3075007	313.3507103	0.648817743	-0.624115
SHARPIN	505.3643588	778.9320847	0.648791299	-0.624174
EHD4	416.5729197	642.2578388	0.648606984	-0.624584
ATAD3A	229.8619497	354.4641013	0.648477374	-0.624872
WRAP73	224.053164	345.5747195	0.648349406	-0.625157
MYL9	207.4566333	320.0177467	0.648266027	-0.625342
PHLDB2	746.84388	1152.286123	0.648141	-0.62562
PODXL2	364.2938481	562.2534021	0.647917552	-0.626118
ERV3-1	996.6216666	1538.974233	0.647588274	-0.626851
OTUB1	638.1366042	985.6102128	0.64745332	-0.627152
CYYR1	32.3632348	50.00277291	0.647228802	-0.627652
RETREG3	527.7696752	815.6007849	0.647093143	-0.627955
WDR6	2442.179488	3774.653769	0.646994304	-0.628175
ITPA	145.2196433	224.4568918	0.646982332	-0.628202
SELENON	784.186074	1212.28945	0.646863729	-0.628466
IFT140	776.7176352	1201.177723	0.64663007	-0.628987
SNX11	107.0476228	165.564737	0.646560522	-0.629143
ATRAID	812.4001762	1256.736359	0.646436438	-0.62942
HYKK	37.342194	57.78098203	0.646271363	-0.629788
PCSK7	218.2443783	337.7965104	0.646082395	-0.63021
YTHDC2	553.4942978	856.7141759	0.646066463	-0.630246
CGNL1	339.3990521	525.584702	0.645755196	-0.630941
PPP1R16A	375.9114196	582.2545113	0.64561358	-0.631257
ADAM15	760.9509311	1178.954268	0.645445673	-0.631632
TSPYL1	464.7028587	720.03993	0.645384845	-0.631768
MAPRE3	147.7091229	228.9015827	0.645295333	-0.631969
TAOK3	516.9819303	801.1555394	0.645295333	-0.631969
NSMCE1	389.1886441	603.3667932	0.645028279	-0.632566
PGM3	499.5555731	774.4873938	0.645014466	-0.632597
TRPA1	15.76670413	24.44580009	0.644965764	-0.632706
YIPF4	399.1465625	618.9232114	0.64490482	-0.632842
ZNF282	146.8792964	227.7904099	0.644800176	-0.633076
NOB1	156.8372148	243.3468282	0.644500756	-0.633746
IFT57	668.8401859	1037.835331	0.644456944	-0.633844
HOXD3	36.51236747	56.6698093	0.644300165	-0.634195
KLHL36	365.1236747	566.698093	0.644300165	-0.634195
PHC1	1508.624638	2342.352118	0.644063984	-0.634724
AFAP1L1	103.7283167	161.1200461	0.643795227	-0.635326
HCFC1R1	222.3935109	345.5747195	0.643546818	-0.635883
SPARCL1	2443.839141	3797.988396	0.643456189	-0.636086
DOK4	46.47028587	72.22622754	0.643399046	-0.636214
RAB11B	980.0251359	1523.417815	0.643306863	-0.636421
HIRA	25.72462253	40.00221833	0.643079899	-0.63693
FHL5	25.72462253	40.00221833	0.643079899	-0.63693
DYNLRB1	25.72462253	40.00221833	0.643079899	-0.63693
RORC	77.1738676	120.006655	0.643079899	-0.63693
MEF2A	476.3204302	741.1522119	0.642675583	-0.637837
NCOA4	658.8822675	1025.612431	0.642428121	-0.638393
ASPHD2	35.68254093	55.55863657	0.642250119	-0.638793
COQ8B	233.1812559	363.3534832	0.641747683	-0.639922
BTNL9	106.2177963	165.564737	0.641548425	-0.64037
ZKSCAN1	662.2015736	1032.279468	0.641494474	-0.640491
IFI44L	55.59837774	86.67147305	0.641484167	-0.640514
MTG2	292.9287663	456.6919926	0.641414281	-0.640672
LRFN3	151.0284291	235.5686191	0.64112287	-0.641327
SERPINB9	85.47213294	133.3407278	0.641005448	-0.641591
RBMS2	200.8180211	313.3507103	0.640873036	-0.64189
GPR137	300.3972051	468.9148927	0.640622019	-0.642455
LMBRD1	575.0697876	897.827567	0.640512509	-0.642701
RIPOR1	609.922502	952.2750308	0.640489861	-0.642752
DAZAP2	983.344442	1535.640715	0.640347988	-0.643072
CHERP	832.316013	1300.072096	0.640207582	-0.643388
TIRAP	44.8106328	70.00388208	0.640116397	-0.643594
ARHGAP22	59.7475104	93.33850944	0.640116397	-0.643594
ATP6V1FNE	14.9368776	23.33462736	0.640116397	-0.643594
PNPLA4	109.5371024	171.1206006	0.640116397	-0.643594
CAMKV	9.9579184	15.55641824	0.640116397	-0.643594
MELTF-AS1	9.9579184	15.55641824	0.640116397	-0.643594
FGF20	4.9789592	7.77820912	0.640116397	-0.643594
CTCFL	4.9789592	7.77820912	0.640116397	-0.643594
NR1I3	4.9789592	7.77820912	0.640116397	-0.643594
ESPNL	4.9789592	7.77820912	0.640116397	-0.643594
C8A	4.9789592	7.77820912	0.640116397	-0.643594
GPR85	4.9789592	7.77820912	0.640116397	-0.643594
ASB11	4.9789592	7.77820912	0.640116397	-0.643594
OR2B11	4.9789592	7.77820912	0.640116397	-0.643594
ACOT6	4.9789592	7.77820912	0.640116397	-0.643594
ENSG000002	4.9789592	7.77820912	0.640116397	-0.643594
PPP1R3G	4.9789592	7.77820912	0.640116397	-0.643594
LRRC37A15	4.9789592	7.77820912	0.640116397	-0.643594
ENSG000002	4.9789592	7.77820912	0.640116397	-0.643594
CD46	1517.75273	2371.242609	0.640066404	-0.643707
WNK3	1368.383954	2137.896335	0.640060947	-0.643719
RREB1	1626.460005	2541.252037	0.6400231	-0.643804
SPINT1	601.6242367	940.0521308	0.639990291	-0.643878
TCEAL1	169.4989321	112.026582	0.660927952	-0.597435
WDR7	1283.349057	848.0827171	0.660835579	-0.597637
ATP13A1	925.6402721	611.5821551	0.660712561	-0.597905
ING3	257.5503254	170.1144393	0.66050951	-0.598349
TRDMT1	150.788011	99.579184	0.660391919	-0.598606
PABIR1	432.5524696	285.4603275	0.659943816	-0.599585
RNF13	1146.869398	756.8017984	0.6598849	-0.599714
PKD1L1	52.83083598	34.8527144	0.659704011	-0.600109
RIN1	35.22055732	23.23514293	0.659704011	-0.600109
GRIA4	17.61027866	11.61757147	0.659704011	-0.600109
SLC26A9	17.61027866	11.61757147	0.659704011	-0.600109
LGI4	26.41541799	17.4263572	0.659704011	-0.600109
ENSG000002	26.41541799	17.4263572	0.659704011	-0.600109
SGSM3	8.80513933	5.808785734	0.659704011	-0.600109
SMYD1	8.80513933	5.808785734	0.659704011	-0.600109
PLG	8.80513933	5.808785734	0.659704011	-0.600109
MATN4	8.80513933	5.808785734	0.659704011	-0.600109
SPATA16	8.80513933	5.808785734	0.659704011	-0.600109
CHRNB3	8.80513933	5.808785734	0.659704011	-0.600109
ARHGAP27	8.80513933	5.808785734	0.659704011	-0.600109
GP5	8.80513933	5.808785734	0.659704011	-0.600109
TRAPPC5	8.80513933	5.808785734	0.659704011	-0.600109
HSD3B2	8.80513933	5.808785734	0.659704011	-0.600109
C19orf38	8.80513933	5.808785734	0.659704011	-0.600109
SKOR2	8.80513933	5.808785734	0.659704011	-0.600109
ENSG000002	8.80513933	5.808785734	0.659704011	-0.600109
IMMTP1	8.80513933	5.808785734	0.659704011	-0.600109
HSDL2-AS1	8.80513933	5.808785734	0.659704011	-0.600109
UFL1-AS1	8.80513933	5.808785734	0.659704011	-0.600109
DBF4P1	8.80513933	5.808785734	0.659704011	-0.600109
MIR193BHG	8.80513933	5.808785734	0.659704011	-0.600109
AARSD1	8.80513933	5.808785734	0.659704011	-0.600109
ENSG000002	8.80513933	5.808785734	0.659704011	-0.600109
ABCC5	1997.665986	1316.934708	0.659236688	-0.601132
SPSB1	201.4175622	132.7722453	0.65918902	-0.601236
B2M	183.8072835	121.1546739	0.659139679	-0.601344
TMEM115	157.3918655	103.7283167	0.659044966	-0.601551
GPR137B	585.5417655	385.869338	0.658995414	-0.60166
STX12	392.9293426	258.9058784	0.658912049	-0.601842
EIF4G3	4998.017212	3291.921858	0.658645562	-0.602426
DHX32	565.730202	372.5921135	0.658603893	-0.602517
SNAP23	337.8972218	222.3935109	0.658169102	-0.60347
RNF130	2267.323378	1492.028107	0.658057038	-0.603715
UBL3	302.6766645	199.158368	0.657990494	-0.603861
VEGFC	121.0706658	79.6633472	0.657990494	-0.603861
CAT	826.5824546	543.5363794	0.657570671	-0.604782
ZNF710	266.3554647	175.0933985	0.657367397	-0.605228
GLO1	4821.914426	3168.277704	0.657058053	-0.605907
MLH3	2295.94008	1507.794811	0.656722196	-0.606645
F2RL2	34.11991491	22.4053164	0.6566639	-0.606773
CLCF1	34.11991491	22.4053164	0.6566639	-0.606773
PDCD4	3645.327683	2392.389896	0.656289394	-0.607596
EIF3FP3	84.74946605	55.59837774	0.656032189	-0.608161
ITPKC	245.4432588	160.9863475	0.655900464	-0.608451
ZNF425	135.3790172	88.79143907	0.655872977	-0.608512
ROBO3	50.62955115	33.19306133	0.655606471	-0.609098
DDX43	25.31477557	16.59653067	0.655606471	-0.609098
GLIPR1L2	25.31477557	16.59653067	0.655606471	-0.609098
ENSG000002	25.31477557	16.59653067	0.655606471	-0.609098
CAMK2D	851.8972302	558.473257	0.655564119	-0.609191
FAM193A	1533.194886	1004.919932	0.655441745	-0.609461
ATP1A1-AS1	159.5931504	104.5581432	0.655154328	-0.610093
USP36	1627.850134	1066.327095	0.655052374	-0.610318
PLB1	108.9635992	71.36508187	0.654944242	-0.610556
RGS14	125.4732355	82.1528268	0.65474383	-0.610998
HPS6	83.64882364	54.7685512	0.65474383	-0.610998
ZNF594-DT	41.82441182	27.3842756	0.65474383	-0.610998
SIK3	1119.353337	732.736829	0.654607267	-0.611298
TGDS	158.4925079	103.7283167	0.654468265	-0.611605
SAMD10	58.33404806	38.17202053	0.654369477	-0.611823
TNRC6C	1923.922944	1258.017025	0.65388119	-0.6129
PCDHGA6	124.372593	81.32300027	0.653865922	-0.612933
PACS1	977.3704657	638.9664307	0.653760732	-0.613165
UBQLNL	33.01927249	21.57548987	0.653421116	-0.613915
ENSG000002	16.50963624	10.78774493	0.653421116	-0.613915
ENSG000002	16.50963624	10.78774493	0.653421116	-0.613915
AXDND1	49.52890873	32.3632348	0.653421116	-0.613915
ENSG000002	49.52890873	32.3632348	0.653421116	-0.613915
RAB18	1120.45398	731.9070024	0.653223618	-0.614351
RHPN2	655.9828801	428.1904912	0.652746442	-0.615405
SDK1	1096.239847	715.3104718	0.652512745	-0.615922
ZNF563	171.7002169	112.026582	0.652454516	-0.616051
HERC1	7942.235676	5179.777221	0.652181254	-0.616655
MAST2	2004.26984	1306.97679	0.652096222	-0.616843
ZDHHC11	325.7901552	212.4355925	0.652062652	-0.616918
SCP2	936.6466963	610.7523286	0.652062652	-0.616918
SETDB2	431.4518272	281.3111948	0.65201067	-0.617033
FAM135A	911.3319207	594.1557979	0.651964212	-0.617135
BAZ2B	6376.021518	4156.601106	0.651911399	-0.617252
SOX13	552.522493	360.1447155	0.651819102	-0.617456
WDR26	3074.094269	2002.371425	0.651369558	-0.618452
ENSG000002	48.42826632	31.53340827	0.651136426	-0.618968
CCRL2	24.21413316	15.76670413	0.651136426	-0.618968
CTU1	24.21413316	15.76670413	0.651136426	-0.618968
FOXD4	24.21413316	15.76670413	0.651136426	-0.618968
PCARE	24.21413316	15.76670413	0.651136426	-0.618968
GHRLOS	24.21413316	15.76670413	0.651136426	-0.618968
CASC15	24.21413316	15.76670413	0.651136426	-0.618968
RHOBTB1	484.2826632	315.3340827	0.651136426	-0.618968
HUS1	169.4989321	110.3669289	0.651136426	-0.618968
NF1	636.1713166	414.0834401	0.650899261	-0.619494

IGLC2	1190.895094	0	0	-12.13092	ARSD	347.6973175	543.3634657	0.639898225	-0.644086	KIRREL1	337.8972218	219.9040313	0.650801537	-0.61971
TRGJ1	848.595303	0	0	-12.13092	R3HDM4	266.3743172	416.6897743	0.639262909	-0.645519	FAM124A	63.83726015	41.49132667	0.649954691	-0.621589
IGHGP	587.7430503	0	0	-12.13092	AOC2	73.85456147	115.5619641	0.63909057	-0.645908	MYO5B	1075.327641	698.7139411	0.649768419	-0.622002
IGHV3-23	410.5396213	0	0	-12.13092	SMYD5	127.7932861	200.0110917	0.638930997	-0.646268	TM9SF4	1210.706658	786.6755536	0.649765613	-0.622009
IGLC3	399.5331971	0	0	-12.13092	FNDC3A	1198.269514	1875.659571	0.638852344	-0.646446	CYB561A3	206.9207743	134.4318984	0.649678114	-0.622203
IGHV6-1	354.406858	0	0	-12.13092	PIGN	563.4522162	882.2711488	0.638638379	-0.646929	HIRA	39.62312699	25.72462253	0.649232519	-0.623193
HSD17B6	324.6895128	0	0	-12.13092	DEGS1	1459.664872	2285.682309	0.638612316	-0.646988	AHI1-DT	39.62312699	25.72462253	0.649232519	-0.623193
IGHG2	314.7837311	0	0	-12.13092	NRDC	1943.453741	3043.502111	0.638558368	-0.64711	DALRD3	86.95075089	56.42820427	0.648967418	-0.623782
CAMK4	264.1541799	0	0	-12.13092	REST	482.9590424	756.7086301	0.638236467	-0.647837	COL3A1	134.2783748	87.131786	0.648889191	-0.623956
MIR205HG	264.1541799	0	0	-12.13092	ACVR1	394.9974299	618.9232114	0.638201028	-0.647917	UPK1A	47.3276239	30.70358173	0.648745473	-0.624276
IGKV4-1	253.1477557	0	0	-12.13092	ABHD11	112.026582	175.5652916	0.638090713	-0.648167	SND1	3090.603905	2004.860905	0.648695519	-0.624387
TRGJ2	248.7451861	0	0	-12.13092	ZNF517	102.0686636	160.0088733	0.637893771	-0.648612	COL4A2	3712.46687	2408.1566	0.648667499	-0.624449
PAGE4	162.8950776	0	0	-12.13092	ENSG000002	34.02288787	53.33629111	0.637893771	-0.648612	ZNF335	653.7815953	424.0413586	0.648597883	-0.624604
SPINK1	138.6809445	0	0	-12.13092	POFUT1	393.3377768	616.7008659	0.637809672	-0.648802	TSC22D1	3760.895136	2438.860182	0.648478645	-0.624869
PIP	137.580302	0	0	-12.13092	NBPF12	781.6965944	1225.623523	0.637795032	-0.648835	SIGLEC1	220.1284833	142.7301637	0.648394799	-0.625056
H2BC14	136.4796596	0	0	-12.13092	ENSG000002	29.04392867	45.55808199	0.637514298	-0.64947	TRMT2A	220.1284833	142.7301637	0.648394799	-0.625056
SERPINB3	129.8758051	0	0	-12.13092	SESN3	1219.015178	1912.328271	0.637450796	-0.649614	MORC2	1240.424003	804.1019108	0.648247622	-0.625383
SKAP1	127.6745203	0	0	-12.13092	ANXA11	1303.657484	2045.668999	0.637276844	-0.650008	SRSF11	1583.824437	1026.495422	0.648111873	-0.625685
MAB21L4	123.2719506	0	0	-12.13092	CMTR1	723.6087371	1135.618532	0.637193491	-0.650197	SELENOT	1097.340489	710.3315126	0.647320973	-0.627447
IGHM	114.4668113	0	0	-12.13092	LIMK2	308.6954704	484.4713109	0.637180084	-0.650227	PI4KB	1346.085675	871.31786	0.647297476	-0.627499
IL13RA2	112.2655265	0	0	-12.13092	DACH1	370.9324604	582.2545113	0.637062407	-0.650493	ZNF239	248.7451861	160.9863475	0.647193821	-0.62773
RGN	104.5610295	0	0	-12.13092	ING4	317.8235623	498.9165564	0.637027491	-0.650572	MGRN1	1010.389738	653.9033083	0.647179285	-0.627763
FMR1NB	103.4603871	0	0	-12.13092	LAPTM5	264.7146641	415.5786016	0.636978572	-0.650683	SCN8A	641.6745287	414.9132667	0.646610155	-0.629032
PLN	96.85653263	0	0	-12.13092	ANKRD31	24.06496947	37.77987287	0.636978572	-0.650683	ZNF316	370.9164943	239.8198681	0.646560269	-0.629143
BCL11B	95.75589022	0	0	-12.13092	RAB32	67.2159492	105.5614095	0.636747364	-0.651207	MYRIP	146.3854414	94.6002248	0.646240664	-0.629857
IGHA1	93.55460539	0	0	-12.13092	CSRNP2	297.0778989	466.6925472	0.636560195	-0.651631	ATP8B1	1332.877966	861.3599416	0.646240664	-0.629857
SP8	90.25267814	0	0	-12.13092	VPS39	703.6929003	1105.616868	0.636470843	-0.651834	CUL1	847.4946605	547.685512	0.646240664	-0.629857
HSD17B13	89.15203572	0	0	-12.13092	C1QC	692.9051554	1088.949277	0.636306181	-0.652207	DNPH1	161.7944352	104.5581432	0.646240664	-0.629857
ZNF350-AS1	77.04496914	0	0	-12.13092	SEMA4F	76.34404107	120.006655	0.636165062	-0.652527	WASHC1	61.63597531	39.8316736	0.646240664	-0.629857
SLAMF7	70.44111464	0	0	-12.13092	TMEM177	57.2580308	90.00499125	0.636165062	-0.652527	NPIPB2	61.63597531	39.8316736	0.646240664	-0.629857
CD8B	69.34047223	0	0	-12.13092	FAM227B	19.08601027	30.00166375	0.636165062	-0.652527	PPIEL.1	30.81798766	19.9158368	0.646240664	-0.629857
PCAT4	68.23982981	0	0	-12.13092	RASGRP1	19.08601027	30.00166375	0.636165062	-0.652527	EMX2OS	15.40899383	9.9579184	0.646240664	-0.629857
CCL28	67.13918739	0	0	-12.13092	ENSG000002	19.08601027	30.00166375	0.636165062	-0.652527	ACSM2B	7.704496914	4.9789592	0.646240664	-0.629857
KCNIP4-IT1	67.13918739	0	0	-12.13092	ANAPC5	1797.404271	2825.712256	0.636088925	-0.6527	OPRL1	7.704496914	4.9789592	0.646240664	-0.629857
CXCL6	62.73661773	0	0	-12.13092	FAM193A	1004.919932	1580.087624	0.635990002	-0.652924	ANGPTL3	7.704496914	4.9789592	0.646240664	-0.629857
CLVS2	61.63597531	0	0	-12.13092	FARSA	689.5858492	1084.504586	0.635853327	-0.653234	IL6	7.704496914	4.9789592	0.646240664	-0.629857
LIF	57.23340565	0	0	-12.13092	EDARADD	85.47213294	134.4519005	0.635707882	-0.653564	NAT16	7.704496914	4.9789592	0.646240664	-0.629857
TRGC1	56.13276323	0	0	-12.13092	TAF4B	33.19306133	52.22511838	0.635576565	-0.653862	LPCAT4	7.704496914	4.9789592	0.646240664	-0.629857
SH3D19	52.83083598	0	0	-12.13092	MYLIP	279.6515417	440.0244016	0.63553644	-0.653953	FAM43B	7.704496914	4.9789592	0.646240664	-0.629857
IGHA2	52.83083598	0	0	-12.13092	AAR2	227.3724701	357.7976195	0.635477873	-0.654086	ZNF849P	7.704496914	4.9789592	0.646240664	-0.629857
TRBC1	51.73019357	0	0	-12.13092	STOX1	193.3495823	304.4613284	0.63505465	-0.655047	TMEM191C	7.704496914	4.9789592	0.646240664	-0.629857
ENSG000002	50.62955115	0	0	-12.13092	SEC23IP	1244.7398	1960.108698	0.635036109	-0.655089	IGLV2-14	7.704496914	4.9789592	0.646240664	-0.629857
TRAJ22	49.52890873	0	0	-12.13092	E2F5	385.869338	607.8114841	0.634850358	-0.655512	SUPT4H1	7.704496914	4.9789592	0.646240664	-0.629857
IL18RAP	48.42826632	0	0	-12.13092	SNAI3	14.10705107	22.22345463	0.634782094	-0.655667	RPTN	7.704496914	4.9789592	0.646240664	-0.629857
PRRG2	48.42826632	0	0	-12.13092	ARIH2OS	14.10705107	22.22345463	0.634782094	-0.655667	RASA2-IT1	7.704496914	4.9789592	0.646240664	-0.629857
IGLV3-21	48.42826632	0	0	-12.13092	MYO18A	1160.92732	1828.990316	0.634736723	-0.65577	KRT8P33	7.704496914	4.9789592	0.646240664	-0.629857
ENSG000002	48.42826632	0	0	-12.13092	LPCAT2	150.1986025	236.6797918	0.634606788	-0.656065	LINC01094	7.704496914	4.9789592	0.646240664	-0.629857
CEACAM6	47.3276239	0	0	-12.13092	ZFHX2	572.580308	902.2722579	0.634598153	-0.656085	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
CD40LG	47.3276239	0	0	-12.13092	CCN1	360.974542	568.9204385	0.634490374	-0.65633	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
GAPT	47.3276239	0	0	-12.13092	SEMA3E	65.55629614	103.339064	0.634380587	-0.656579	HSP90B2P	7.704496914	4.9789592	0.646240664	-0.629857
TXLNGY	47.3276239	0	0	-12.13092	ENSG000002	65.55629614	103.339064	0.634380587	-0.656579	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
H2BC10	46.22698148	0	0	-12.13092	NDUFV1	739.3754412	1165.620195	0.634319347	-0.656719	PAN3-AS1	7.704496914	4.9789592	0.646240664	-0.629857
VSTM2A	45.12633907	0	0	-12.13092	IRF2BP1	317.8235623	501.1389019	0.634202536	-0.656984	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
RND1	44.02569665	0	0	-12.13092	SLIT3	238.1602151	375.5763832	0.634119252	-0.657174	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
APOBEC3B	44.02569665	0	0	-12.13092	PRDM11	242.3093477	382.2434196	0.633913719	-0.657642	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
ADAMTS9-A	44.02569665	0	0	-12.13092	SIX4	512.0029711	807.8225758	0.633806217	-0.657886	ENSG000002	7.704496914	4.9789592	0.646240664	-0.629857
ENSG000002	44.02569665	0	0	-12.13092	PRUNE2	5459.428763	8614.922187	0.63371771	-0.658088	SIRT4	23.11349074	14.9368776	0.646240664	-0.629857
DSG3	42.92505424	0	0	-12.13092	MPND	209.1162864	330.0183012	0.633650575	-0.658241	CLCA2	23.11349074	14.9368776	0.646240664	-0.629857
HDC	42.92505424	0	0	-12.13092	FAM171A2	139.4108576	220.0122008	0.633650575	-0.658241	NUDT17	23.11349074	14.9368776	0.646240664	-0.629857
IGHV3-33	42.92505424	0	0	-12.13092	PI15	69.7054288	110.0061004	0.633650575	-0.658241	THAP7-AS1	23.11349074	14.9368776	0.646240664	-0.629857
ZNF767P	42.92505424	0	0	-12.13092	LMNA	520.3012364	821.1566485	0.633619952	-0.65831	CYP4V2	283.9657434	183.3916639	0.645823196	-0.630789
NUDT16-DT	41.82441182	0	0	-12.13092	SRA1	148.5389495	234.4574463	0.633543322	-0.658485	GIMAP8	230.034265	148.5389495	0.64572532	-0.631007
FENDRR	41.82441182	0	0	-12.13092	DCDC1	78.83352067	124.4513459	0.633448518	-0.658701	ZEB1	1729.109236	1116.116687	0.645486511	-0.631541
IGLV3-1	40.7237694	0	0	-12.13092	DNAH7	885.4249111	1397.855296	0.633416716	-0.658773	MYH9	10829.22073	6988.799064	0.64536491	-0.631813
LINC01725	40.7237694	0	0	-12.13092	TSSC4	87.96161254	138.8965914	0.633288489	-0.659065	DCDC1	122.1713082	78.83352067	0.645270332	-0.632024
MT1G	39.62312699	0	0	-12.13092	STAM2	448.9361546	708.9282027	0.633260396	-0.659129	C1QA	114.4668113	73.85456147	0.645205022	-0.63217
SOX15	39.62312699	0	0	-12.13092	VWCE	32.3632348	51.11394565	0.63315861	-0.659361	GFPT1	2975.036451	1919.388772	0.645164791	-0.63226
HOXA7	38.52248457	0	0	-12.13092	SDHAF2	41.49132667	65.55919115	0.632883444	-0.659988	PEA15	655.9828801	423.211532	0.645156367	-0.632279
ARHGEF34P	38.52248457	0	0	-12.13092	YBX3P1	50.61941854	80.00443666	0.632707643	-0.660389	MCF2L	762.7451945	492.0871343	0.645152717	-0.632287
POTEH-AS1	38.52248457	0	0	-12.13092	NKAP	256.4163988	405.578047	0.632224551	-0.661491	EIF2B3	425.9486151	274.6725825	0.644849103	-0.632966
IGKV2D-30	38.52248457	0	0	-12.13092	ALG2	398.316736	630.0349387	0.632213726	-0.661516	DUS3L	159.5931504	102.8984901	0.644755053	-0.633177
ENSG000002	38.52248457	0	0	-12.13092	TSPAN13	311.18495	492.24952	0.632169128	-0.661618	RPL22L1	471.0749542	303.7165112	0.644730756	-0.633231
FAR2P4	37.42184215	0	0	-12.13092	CALCR	9.128091867	14.44524551	0.631909777	-0.66221	SALL2	926.7409145	597.475104	0.64470565	-0.633287
HOXA6	36.32119974	0	0	-12.13092	DUOXA1	9.128091867	14.44524551	0.631909777	-0.66221	RPLP0P6	75.94432672	48.95976547	0.644679696	-0.633346
CCDC178	36.32119974	0	0	-12.13092	GPR26	9.128091867	14.44524551	0.631909777	-0.66221	SLC4A3	144.1841565	92.94057174	0.644596286	-0.633532
GGCTP1	36.32119974	0	0	-12.13092	SLC66A1L	9.128091867	14.44524551	0.631909777	-0.66221	TBL1XR1	5475.696021	3528.42242	0.644378798	-0.634019
SERTM2	36.32119974	0	0	-12.13092	TAFA5	9.128091867	14.44524551	0.631909777	-0.66221	CCNI	5033.23777	3242.962092	0.644309337	-0.634175
SCML4	35.22055732	0	0	-12.13092	RPLP0P9	27.3842756	43.33573653	0.631909777	-0.66221	NEK9	1589.327649	1024.005942	0.644301345	-0.634192
SURF1	35.22055732	0	0	-12.13092	PDE2A	82.1528268	130.0072096	0.631909777	-0.66221	HPS1	52.83083598	34.02288787	0.643996773	-0.634875
SYT12	35.22055732	0	0	-12.13092	PLBD1	141.0705107	223.345719	0.631623974	-0.662862	TRIM65	97.95717505	63.06681654	0.643820287	-0.63527
ENSG000002	35.22055732	0	0	-12.13092	GPR89B	113.6862351	180.0099825	0.63155517	-0.663019	ENDOG	97.95717505	63.06681654	0.643820287	-0.63527
HOXD9	34.11991491	0	0	-12.13092	TUBB6	418.2325728	662.2589479	0.631524231	-0.66309	VPS13C	9076.998007	5843.638448	0.643785362	-0.635348
TRAJ12	34.11991491	0	0	-12.13092	DTX3L	848.9125436	1344.519005	0.631387537	-0.663402	HECTD3	331.2933673	213.2654191	0.643735855	-0.635459
NDP	33.01927249	0	0	-12.13092	ENSG000002	81.32300027	128.8960368	0.630919323	-0.664473	TMEM259	1129.259119	726.9280432	0.643721207	-0.635492
CCR8	33.01927249	0	0	-12.13092	ATPAF2	135.2617249	214.4563372	0.630719179	-0.66493	ARHGEF28	233.3361923	150.1986025	0.64370041	-0.635539
ENSG000002	33.01927249	0	0	-12.13092	PBX4	31.53340827	50.00277291	0.630633192	-0.665127	PPIH	217.9271984	140.2406841	0.643520796	-0.635941
RAB38	31.91863007	0	0	-12.13092	CCDC157	31.53340827	50.00277291	0.630633192	-0.665127	GOLGA8B	82.54818122	53.10889814	0.643368483	-0.636283
TRGJP2	31.91863007	0	0	-12.13092	ENSG000002	31.53340827	50.00277291	0.630633192	-0.665127	ZNF582	74.84368431	48.12993894	0.643072817	-0.636946
MIOS-DT	31.91863007	0	0	-12.13092	ELP1	1579.98972	2505.694509	0.630559597	-0.665295	IFNGR1	1606.937928	1033.134034	0.642920934	-0.637287
GJD3	30.81798766	0	0	-12.13092	MYO6	1516.093076	2404.577791	0.630502819	-0.665425	IFIT5	253.1477557	162.6460005	0.642494341	-0.638244
MT-TI	30.81798766	0	0	-12.13092	RGPD6	53.93872467	85.56030032	0.630417664	-0.66562	SLC49A4	654.8822377	420.7220524	0.642439248	-0.638368
ENSG000002	30.81798766	0	0	-12.13092	GIT2	660.5419206	1047.835886	0.630386809	-0.665691	MITD1	416.0428334	267.2041437	0.642251524	-0.63879
BCL2A1	29.71734524	0	0	-12.13092	UACA	1136.032524	1803.433343	0.629927648	-0.666742	DNM3	208.0214167	133.6020719	0.642251524	-0.63879
IGKV1-33	29.71734524	0	0	-12.13092	DNAH17	58.08785734	92.22733671	0.629833403	-0.666958	EBI3	29.71734524	19.08601027	0.642251524	-0.63879
TNFRSF14	28.61670282	0	0	-12.13092	PLXNA1	1799.063924	2856.825093	0.629742412	-0.667166	NMRAL1	29.71734524	19.08601027	0.642251524	-0.63879
TTTY14	28.61670282	0	0	-12.13092	SPTBN1	14059.75095	22335.68307	0.629474859	-0.667779	TRPC1	422.6466879	271.3532764	0.642033368	-0.63928
LNP1	28.61670282	0	0	-12.13092	VWF	1048.900738	1666.759097	0.629305543	-0.668167	CCNL1	1564.012874	1004.090105	0.641996062	-0.639364
MHENCR	28.61670282	0	0	-12.13092	MYL6	1090.392065	1733.429461	0.62903746	-0.668782	RPL29	1383.507517	887.9143907	0.641785014	-0.639838
C1QTNF2	27.51606041	0	0	-12.13092	RPUSD3	132.7722453	211.122819	0.628886285	-0.669129	RBL2	1685.083539	1081.263973	0.641667874	-0.640101
P2RY2	27.51606041	0	0	-12.13092	EMID1	26.55444907	42.22456379	0.628886285	-0.669129	TMEM109	413.8415485	265.5444907	0.641657397	-0.640125
IGKV3-15	27.51606041	0	0	-12.13092	RPL17P39	13.27722453	21.1122819	0.628886285	-0.669129	SLFN12	103.4603871	66.38612267	0.641657397	-0.640125

REM1	26.41541799	0	0	-12.13092	ENSG00000(	13.27722453	21.1122819	0.628886285	-0.669129	PILRA	51.73019357	33.19306133	0.641657397	-0.640125
KLHDC7B	26.41541799	0	0	-12.13092	PEF1	207.4566333	330.0183012	0.628621602	-0.669736	SGK2	51.73019357	33.19306133	0.641657397	-0.640125
XCL2	26.41541799	0	0	-12.13092	IFRD2	141.0705107	224.4568918	0.628497123	-0.670022	ERLIN2	920.13706	590.0066652	0.641216065	-0.641118
ENSG000002	26.41541799	0	0	-12.13092	C11orf80	660.5419206	1051.169404	0.628387697	-0.670273	NSUN5	117.7687385	75.51421454	0.641207637	-0.641136
ENSG000002	26.41541799	0	0	-12.13092	LRRC37A2	101.2388371	161.1200461	0.628344142	-0.670373	PLEC	19567.22088	12541.1684	0.64092742	-0.641767
ENSG000002	26.41541799	0	0	-12.13092	VPS13B	8851.759631	14088.55906	0.628294178	-0.670488	HYDIN2	88.0513933	56.42820427	0.640855325	-0.641929
ASPN	25.31477557	0	0	-12.13092	ECHDC3	105.3879697	167.7870824	0.628105383	-0.670921	CLIC2	44.02569665	28.21410213	0.640855325	-0.641929
TIMD4	25.31477557	0	0	-12.13092	ARF4	636.4769511	1013.389531	0.628067423	-0.671009	GADL1	22.01284833	14.10705107	0.640855325	-0.641929
TRAV38-2DV	25.31477557	0	0	-12.13092	BRF1	346.0376644	551.1416748	0.627856104	-0.671494	FRG1JP	22.01284833	14.10705107	0.640855325	-0.641929
CKMT1A	25.31477557	0	0	-12.13092	NCOA2	3213.088337	5118.061601	0.627793995	-0.671637	RFX3-DT	22.01284833	14.10705107	0.640855325	-0.641929
IGKV1D-33	25.31477557	0	0	-12.13092	CTNNB1	3383.202777	5390.29892	0.627646597	-0.671976	PGLS-DT	22.01284833	14.10705107	0.640855325	-0.641929
CKMT2-AS1	25.31477557	0	0	-12.13092	ACSL1	793.3141659	1264.514568	0.627366569	-0.672619	SHE	66.03854498	42.3211532	0.640855325	-0.641929
ASB2	24.21413316	0	0	-12.13092	ARHGEF6	139.4108576	222.2345463	0.627314069	-0.67274	PLXNA3	1180.989313	756.8017984	0.640820192	-0.642008
SH2D1A	24.21413316	0	0	-12.13092	SEC24B	1420.663025	2265.681199	0.627035712	-0.67338	ANXA4	953.1563325	610.7523286	0.640768264	-0.642125
IGLV7-46	24.21413316	0	0	-12.13092	TNPO2	805.7615639	1285.62685	0.626746061	-0.674047	VPS54	1178.788028	755.1421454	0.640608937	-0.642484
MBNL1-AS1	24.21413316	0	0	-12.13092	SLA	60.57733694	96.67202764	0.626627355	-0.67432	EWSR1	3529.760229	2260.447477	0.640396891	-0.642962
ISL1-DT	24.21413316	0	0	-12.13092	CDK14	436.4887566	696.7053026	0.62650414	-0.674604	DPP7	482.0813783	308.6954704	0.640338923	-0.643092
ENSG000002	24.21413316	0	0	-12.13092	PTPRU	958.449646	1530.084851	0.626402938	-0.674837	APOBR	58.33404806	37.342194	0.640144054	-0.643531
CDH13-AS2	24.21413316	0	0	-12.13092	NECAB3	319.4832153	510.0282837	0.626402938	-0.674837	RANBP2	17707.13519	11333.77079	0.64006801	-0.643703
SBDSP1	24.21413316	0	0	-12.13092	BIN1	107.8774493	172.2317734	0.626350453	-0.674958	SPTA1	36.32119974	23.23514293	0.63971298	-0.644503
NPY1R	23.11349074	0	0	-12.13092	SMPDL3B	137.7512045	220.0122008	0.626107116	-0.675519	TMEM87B	934.4454114	597.475104	0.639390056	-0.645232
IGHV3-7	23.11349074	0	0	-12.13092	MPDU1	262.2251845	418.9121198	0.625967052	-0.675841	ZFYVE9	1165.580319	745.184227	0.639324648	-0.645379
ENSG000002	23.11349074	0	0	-12.13092	SLC11A2	438.1484096	700.0388208	0.625891589	-0.676015	HDLBP	16241.07949	10381.95976	0.639240745	-0.645569
L3MBTL2-AS	23.11349074	0	0	-12.13092	HCK	73.02473494	116.6731368	0.625891589	-0.676015	C9orf85	129.8758051	82.98265334	0.638938509	-0.646251
SOCS2-AS1	23.11349074	0	0	-12.13092	HIPK2	2106.099742	3366.853376	0.625539489	-0.676827	KANK2	1420.929359	907.8302275	0.638898916	-0.64634
NPTN-IT1	23.11349074	0	0	-12.13092	ATP6V0E1	653.9033083	1045.61354	0.625377621	-0.677201	RPS6KB1	865.1049392	552.6644712	0.638840962	-0.646471
ENSG000002	23.11349074	0	0	-12.13092	DNAJC30	85.47213294	136.674246	0.625371169	-0.677215	ZNF800	1243.72593	794.1439924	0.63852009	-0.647196
DKK1	22.01284833	0	0	-12.13092	NDST1	468.8519914	750.0415937	0.625101321	-0.677838	EDEM3	1770.933648	1130.223738	0.63820784	-0.647902
IMPG1	22.01284833	0	0	-12.13092	AGPAT2	365.9535012	585.5880295	0.624933371	-0.678226	CCDC17	57.23340565	36.51236747	0.637955527	-0.648472
IL2RG	22.01284833	0	0	-12.13092	OS9	1394.938403	2232.346017	0.624875531	-0.678359	CCDC38	14.30835141	9.128091867	0.637955527	-0.648472
CYTOR	22.01284833	0	0	-12.13092	HSPB1	1513.603597	2422.356555	0.624847566	-0.678424	ANXA2R	14.30835141	9.128091867	0.637955527	-0.648472
ENSG000002	22.01284833	0	0	-12.13092	ZNF554	212.4355925	340.0188558	0.624775917	-0.678589	ZMIZ1-AS1	14.30835141	9.128091867	0.637955527	-0.648472
RMST	22.01284833	0	0	-12.13092	SMG5	1550.115964	2481.248709	0.6247322	-0.67869	EXTL3-AS1	14.30835141	9.128091867	0.637955527	-0.648472
ENSG000002	22.01284833	0	0	-12.13092	MON2	1481.240362	2371.242609	0.624668415	-0.678838	ENSG000002	14.30835141	9.128091867	0.637955527	-0.648472
ENSG000002	22.01284833	0	0	-12.13092	SPART	334.4200929	535.5852566	0.62440123	-0.679455	ENSG000002	14.30835141	9.128091867	0.637955527	-0.648472
LINC02604	22.01284833	0	0	-12.13092	NPR3	42.3211532	67.78153662	0.62437583	-0.679513	LINC00869	14.30835141	9.128091867	0.637955527	-0.648472
LINC01176	22.01284833	0	0	-12.13092	CD99	42.3211532	67.78153662	0.62437583	-0.679513	NME4	478.7794511	305.3761643	0.637822203	-0.648774
UBXN10	20.91220591	0	0	-12.13092	NCOA1	2145.101589	3436.857258	0.624146256	-0.680044	SRF	1163.379034	741.8649208	0.637681185	-0.649093
ARL9	20.91220591	0	0	-12.13092	PREB	194.1794088	311.1283648	0.624113487	-0.68012	PRR14L	4545.653179	2897.754255	0.637478079	-0.649552
EPB41L4A-A	20.91220591	0	0	-12.13092	FBLN1	2408.986426	3861.325242	0.623875555	-0.68067	BBOF1	184.9079259	117.8353677	0.637265099	-0.650034
LINC01748	20.91220591	0	0	-12.13092	ATXN7	409.9343075	657.814257	0.62317638	-0.682288	GAS8	141.9828717	90.45109214	0.637056365	-0.650507
ENSG000002	20.91220591	0	0	-12.13092	SEMA6C	345.2078379	554.475193	0.622584819	-0.683658	INTS1	1692.788036	1077.944667	0.636786558	-0.651118
ENSG000002	20.91220591	0	0	-12.13092	CRYGS	12.447398	20.00110917	0.622335386	-0.684236	CATSPER2	198.1156349	126.1336331	0.636666728	-0.65139
WNT7A	19.81156349	0	0	-12.13092	C20orf204	29.04392867	46.66925472	0.622335386	-0.684236	PRPF39	867.306224	551.8346447	0.636262752	-0.652305
CDC25C	19.81156349	0	0	-12.13092	FARS2	286.290154	460.0255108	0.622335386	-0.684236	ZNF281	1507.88011	959.2794726	0.636177549	-0.652499
TRAT1	19.81156349	0	0	-12.13092	HRC	16.59653067	26.66814555	0.622335386	-0.684236	LONP2	2809.940089	1787.446353	0.636115467	-0.652639
PCGEM1	19.81156349	0	0	-12.13092	ARSL	16.59653067	26.66814555	0.622335386	-0.684236	SLC12A7	126.5738779	80.49317374	0.635938276	-0.653041
ENSG000002	19.81156349	0	0	-12.13092	C14orf39	16.59653067	26.66814555	0.622335386	-0.684236	CDC14B	280.6638162	178.4127047	0.635681176	-0.653625
PSMD6-AS2	19.81156349	0	0	-12.13092	DLX2	8.298265334	13.33407278	0.622335386	-0.684236	SGSM2	1206.304088	766.7597168	0.635627222	-0.653747
ENSG000002	19.81156349	0	0	-12.13092	ADM5	8.298265334	13.33407278	0.622335386	-0.684236	ARSD	547.0192809	347.6973175	0.635621686	-0.65376
ENSG000002	19.81156349	0	0	-12.13092	ENSG000002	8.298265334	13.33407278	0.622335386	-0.684236	SLC35E1	532.7109295	338.5692256	0.635559	-0.653902
ENSG000002	19.81156349	0	0	-12.13092	CD38	4.149132667	6.667036389	0.622335386	-0.684236	ZNF608	910.2312783	578.3890938	0.635430915	-0.654193
STAP1	18.71092108	0	0	-12.13092	ADTRP	4.149132667	6.667036389	0.622335386	-0.684236	PCDHGA9	118.869381	75.51421454	0.635270529	-0.654557
G0S2	18.71092108	0	0	-12.13092	RHAG	4.149132667	6.667036389	0.622335386	-0.684236	TAMM41	139.7815869	88.79143907	0.635215561	-0.654682
ZNF695	18.71092108	0	0	-12.13092	MMD2	4.149132667	6.667036389	0.622335386	-0.684236	PPP1R15A	551.4218506	350.1867971	0.635061517	-0.655032
ADAMTSL4-	18.71092108	0	0	-12.13092	PDCL2	4.149132667	6.667036389	0.622335386	-0.684236	SPATA7	480.9807359	305.3761643	0.634903108	-0.655392
ENSG000002	18.71092108	0	0	-12.13092	RNASE7	4.149132667	6.667036389	0.622335386	-0.684236	SLC38A4	20.91220591	13.27722453	0.634903108	-0.655392
SNORD100	18.71092108	0	0	-12.13092	INSM2	4.149132667	6.667036389	0.622335386	-0.684236	CCNK	2347.670274	1490.368454	0.634828694	-0.655561
ENSG000002	18.71092108	0	0	-12.13092	DYNLRB2	4.149132667	6.667036389	0.622335386	-0.684236	DST	21537.3708	13666.41318	0.634544175	-0.656207
ZNF33BP1	18.71092108	0	0	-12.13092	CCDC125	4.149132667	6.667036389	0.622335386	-0.684236	ENSG000002	48.42826632	30.70358173	0.634001257	-0.657442
FZD10-AS1	18.71092108	0	0	-12.13092	PP2D1	4.149132667	6.667036389	0.622335386	-0.684236	EXOC8	752.8394127	477.1502567	0.633800846	-0.657899
FLJ20021	18.71092108	0	0	-12.13092	CYP27C1	4.149132667	6.667036389	0.622335386	-0.684236	COL6A2	5068.458327	3212.258511	0.633774277	-0.657959
MIR5687	18.71092108	0	0	-12.13092	LYPD2	4.149132667	6.667036389	0.622335386	-0.684236	TCF7L2	2126.441148	1347.63829	0.633752922	-0.658008
LYRM4-AS1	18.71092108	0	0	-12.13092	CTAGE12P	4.149132667	6.667036389	0.622335386	-0.684236	CDYL2	386.3254881	244.7988273	0.63365953	-0.65822
SUSD3	17.61027866	0	0	-12.13092	HINT1P1	4.149132667	6.667036389	0.622335386	-0.684236	VLDLR	296.07281	187.5407965	0.633427962	-0.658748
IL12A	17.61027866	0	0	-12.13092	RNF14P1	4.149132667	6.667036389	0.622335386	-0.684236	HNRNPA1P1	27.51606041	17.4263572	0.633315851	-0.659003
RFESD	17.61027866	0	0	-12.13092	ENSG000002	4.149132667	6.667036389	0.622335386	-0.684236	PCYT1A	385.2248457	243.9690008	0.633315851	-0.659003
C12orf42	17.61027866	0	0	-12.13092	ENSG000002	4.149132667	6.667036389	0.622335386	-0.684236	PIGZ	82.54818122	52.2790716	0.633315851	-0.659003
SLC35F1	17.61027866	0	0	-12.13092	ENSG000002	4.149132667	6.667036389	0.622335386	-0.684236	SLC30A9	1612.44114	1020.686636	0.633007067	-0.659706
IGKJ5	17.61027866	0	0	-12.13092	TMCC3	210.7759395	338.9076831	0.621927298	-0.685182	GGT6	89.15203572	56.42820427	0.632943531	-0.659851
ZNF680P1	17.61027866	0	0	-12.13092	TGIF2LX	226.5426436	364.4646559	0.621576441	-0.685996	CLK1	1904.11138	1204.908126	0.632792881	-0.660195
ANKRD10-IT	17.61027866	0	0	-12.13092	EXD2	291.2691132	468.9148927	0.621155604	-0.686973	FCGR3A	308.1798766	195.0092353	0.632777317	-0.66023
MTND5P14	17.61027866	0	0	-12.13092	HSD17B4	1742.63572	2805.711147	0.621103039	-0.687095	TXNDC11	1081.931495	684.60689	0.63276362	-0.660261
ENSG000002	17.61027866	0	0	-12.13092	RPS6KB2	209.1162864	336.6853376	0.621103039	-0.687095	FLRT2	451.2633907	285.4603275	0.632580292	-0.660679
SNORA47	17.61027866	0	0	-12.13092	PAG1	307.0358173	494.4718655	0.62093688	-0.687481	USP8	1747.820157	1105.328942	0.632404277	-0.661081
IGKV2-30	17.61027866	0	0	-12.13092	TMEM184A	53.10889814	85.56030032	0.620718931	-0.687988	RUNX1	1931.627441	1221.504657	0.632370731	-0.661157
ENSG000002	17.61027866	0	0	-12.13092	VGLL3	53.10889814	85.56030032	0.620718931	-0.687988	RNY1	34.11991491	21.57548987	0.632343015	-0.661221
CCL24	16.50963624	0	0	-12.13092	SMARCC2	1604.884516	2585.698946	0.620677252	-0.688085	PCDHGC4	34.11991491	21.57548987	0.632343015	-0.661221
MAS1	16.50963624	0	0	-12.13092	PTGS1	48.95976547	78.89326393	0.620582329	-0.688305	SERINC1	1910.715235	1208.227433	0.632343015	-0.661221
TSLP	16.50963624	0	0	-12.13092	MARCHF8	48.95976547	78.89326393	0.620582329	-0.688305	DYM	1190.895094	752.6526658	0.632005849	-0.66199
TMSB4Y	16.50963624	0	0	-12.13092	TJAP1	248.1181335	400.0221833	0.620260935	-0.689053	SRRM1	5497.708869	3474.483695	0.631987575	-0.662032
SCRG1	16.50963624	0	0	-12.13092	SLC37A3	214.9250721	346.6858922	0.619941789	-0.689795	FNIP1	1583.824437	1000.770799	0.63186978	-0.662301
TMPRSS11F	16.50963624	0	0	-12.13092	ATP7B	303.7165112	490.0271746	0.619795242	-0.690136	PTPN18	312.5824462	197.4987149	0.631829194	-0.662393
TEX45	16.50963624	0	0	-12.13092	CBR3-AS1	64.7264696	104.4502368	0.619687151	-0.690388	C19orf44	237.7387619	150.1986025	0.631780032	-0.662506
MT-TA	16.50963624	0	0	-12.13092	TNIP1	453.0852872	731.1516573	0.619687151	-0.690388	RPL17P6	122.1713082	77.1738676	0.631685694	-0.662721
TRBC2	16.50963624	0	0	-12.13092	GSS	492.9169608	795.5996757	0.619553999	-0.690698	CLIP2	291.6702403	184.2214904	0.6316088	-0.662897
TRAV13-1	16.50963624	0	0	-12.13092	OSTM1	169.2846128	273.3484919	0.619299604	-0.691291	NTM	88.0513933	55.59837774	0.631430982	-0.663303
APOBEC3D	16.50963624	0	0	-12.13092	FAT2	28.21410213	45.55808199	0.619299604	-0.691291	COPG1	2518.269848	1589.947638	0.631365077	-0.663454
ENSG000002	16.50963624	0	0	-12.13092	PFKFB1	28.21410213	45.55808199	0.619299604	-0.691291	EGR2	364.3126398	229.8619497	0.630946952	-0.664409
ENSG000002	16.50963624	0	0	-12.13092	PIH1D1	305.3761643	493.3606928	0.618971411	-0.692055	KLHL7	424.8479727	268.0339703	0.630893843	-0.664531
SSX2B	16.50963624	0	0	-12.13092	TMEM186	100.4090105	162.2312188	0.618925329	-0.692163	LYSMD4	107.8629568	68.04577574	0.630853981	-0.664622
ENSG000002	16.50963624	0	0	-12.13092	IL18BP	148.5389495	240.01331	0.618887968	-0.692273	LRRC17	53.9314784	34.02288787	0.630853981	-0.664622
ENSG000002	16.50963624	0	0	-12.13092	GHR	48.12993894	77.7820912	0.618779184	-0.692503	DAG1	2870.475422	1810.681496	0.630794983	-0.664757
ENSG000002	16.50963624	0	0	-12.13092	TAF10	48.12993894	77.7820912	0.618779184	-0.692503	RALGAPA2	4176.93797	2634.699243	0.630772892	-0.664807
ENSG000002	16.50963624	0	0	-12.13092	ITPK1	24.06496947	38.8910456	0.618779184	-0.692503	NREP	302.6766645	190.8601027	0.630574223	-0.665262
ENSG000002	16.50963624	0	0	-12.13092	MX1	116.1757147	187.7881916	0.618652928	-0.692798	VPS39	1116.05141	703.6929003	0.630520148	-0.665386
DHRS9	15.40899383	0	0	-12.13092	SRPRA	746.0140535	1206.733586	0.618209406	-0.693832	ALG2	631.768747	398.316736	0.630478696	-0.66548
TCF20	15.40899383	0	0	-12.13092	BLTP3A	661.3717471	1070.05934	0.618070159	-0.694157	DOK4	73.74304189	46.47028587	0.630165025	-0.666198
LRRN4	15.40899383	0	0	-12.13092	VPS37C	481.2993894	778.9320847	0.617896475	-0.694563	RNF141	301.5760221	190.0302761	0.630123956	-0.666292
GSTT2B	15.40899383	0	0	-12.13092	B9D1	210.7759395	341.1300286	0.617875654	-0.694612	DMAP1	367.614567	231.5216028	0.629794419	-0.667047
PPP1R1C	15.40899383	0	0	-12.13092	IQCE	201.6478476	326.684783	0.617255097	-0.696061	AFAP1	374.2184215	235.6707355	0.629767863	-0.667108

EVX2	15.40899383	0	0	-12.13092	WASHC2A	508.683665	824.4901667	0.616967534	-0.696734	GLT8D1	661.4860922	416.5729197	0.629753104	-0.667142
GREM2	15.40899383	0	0	-12.13092	CTBP2P8	15.76670413	25.55697282	0.616923774	-0.696836	MIDN	474.3768814	298.737552	0.629747283	-0.667155
SPATA45	15.40899383	0	0	-12.13092	AFF1	2035.564486	3300.183012	0.616803516	-0.697117	BBS9	888.21843	559.3030835	0.629690924	-0.667284
SNORA22C	15.40899383	0	0	-12.13092	ANGPT1	74.684388	121.1178277	0.616625887	-0.697533	MRPL41	313.6830886	197.4987149	0.629612249	-0.667464
TSSK1B	15.40899383	0	0	-12.13092	SUPT5H	1202.418647	1950.108144	0.616590752	-0.697615	TRPM7	2208.98933	1390.78927	0.62960434	-0.667483
LDHAL6FP	15.40899383	0	0	-12.13092	PLCL1	145.2196433	235.5686191	0.616464298	-0.697911	HSPG2	7506.381279	4725.862108	0.629579278	-0.66754
ENTPD3-AS1	15.40899383	0	0	-12.13092	SPRING1	329.4411337	534.4740838	0.616383738	-0.698099	PATJ	6557.627516	4128.387003	0.629554971	-0.667596
IGKV3D-15	15.40899383	0	0	-12.13092	KIAA0319	109.5371024	177.787637	0.616112033	-0.698735	VPS9D1	126.5738779	79.6633472	0.629382212	-0.667992
RPL7L1P9	15.40899383	0	0	-12.13092	TMPPE	117.0055412	190.0105371	0.615784488	-0.699503	ODF2	1284.4497	807.421217	0.628612562	-0.669757
ENSG000002	15.40899383	0	0	-12.13092	ZNF574	471.341471	765.598012	0.615651378	-0.699814	FEM1B	1626.749491	1022.346289	0.628459572	-0.670108
IGKV1D-39	15.40899383	0	0	-12.13092	AXL	190.8601027	310.0171921	0.615643608	-0.699833	GSDME	79.24625397	49.789592	0.628289534	-0.670499
MMADHCP2	15.40899383	0	0	-12.13092	DENND10P1	50.61941854	82.22678213	0.615607436	-0.699917	RNF43	39.62312699	24.894796	0.628289534	-0.670499
ENSG000002	15.40899383	0	0	-12.13092	UST	112.8564085	183.3435007	0.615546273	-0.700061	FGF18	19.81156349	12.447398	0.628289534	-0.670499
ENSG000002	15.40899383	0	0	-12.13092	MUS81	248.94796	404.4668742	0.615496536	-0.700177	ADGRG4	19.81156349	12.447398	0.628289534	-0.670499
ENSG000002	15.40899383	0	0	-12.13092	FAM118A	97.0897044	157.7865279	0.615323157	-0.700584	FRMD7	19.81156349	12.447398	0.628289534	-0.670499
LINC02967	15.40899383	0	0	-12.13092	SEPSECS	205.7969803	334.4629922	0.615305684	-0.700625	C1QL3	19.81156349	12.447398	0.628289534	-0.670499
ENSG000002	15.40899383	0	0	-12.13092	THEM6	104.5581432	170.0094279	0.615013794	-0.701309	ADRA1D	19.81156349	12.447398	0.628289534	-0.670499
ENSG000002	15.40899383	0	0	-12.13092	FAAH2	286.290154	465.5813745	0.61490895	-0.701555	RNASEK	19.81156349	12.447398	0.628289534	-0.670499
DMC1	14.30835141	0	0	-12.13092	MBTPS2	293.7585928	477.8042745	0.61480947	-0.701789	DNAAF6	6.603854498	4.149132667	0.628289534	-0.670499
SCGB3A1	14.30835141	0	0	-12.13092	STX12	258.9058784	421.1344652	0.614781975	-0.701853	ODAM	6.603854498	4.149132667	0.628289534	-0.670499
SLC35A1	14.30835141	0	0	-12.13092	ARSG	65.55629614	106.6725822	0.614556194	-0.702383	PDE8B	6.603854498	4.149132667	0.628289534	-0.670499
CCL11	14.30835141	0	0	-12.13092	COMMD5	246.4584804	401.133356	0.614405351	-0.702737	PLPPR5	6.603854498	4.149132667	0.628289534	-0.670499
ANXA2R	14.30835141	0	0	-12.13092	DELE1	242.3093477	394.4663197	0.614271322	-0.703052	HNF1A	6.603854498	4.149132667	0.628289534	-0.670499
FCER1A	14.30835141	0	0	-12.13092	DRG2	242.3093477	394.4663197	0.614271322	-0.703052	DMP1	6.603854498	4.149132667	0.628289534	-0.670499
TNFRSF4	14.30835141	0	0	-12.13092	BCAP31	534.4082875	870.0482487	0.614228335	-0.703153	PITX2	6.603854498	4.149132667	0.628289534	-0.670499
ZKSCAN7	14.30835141	0	0	-12.13092	TYRO3	73.02473494	118.8954823	0.61419268	-0.703237	SDR16C5	6.603854498	4.149132667	0.628289534	-0.670499
PTMAP2	14.30835141	0	0	-12.13092	ZNF296	61.40716347	100.0055458	0.614037581	-0.703601	ZNF843	6.603854498	4.149132667	0.628289534	-0.670499
NOTCH4	14.30835141	0	0	-12.13092	SGIP1	92.1107452	150.0083187	0.614037581	-0.703601	C10orf71	6.603854498	4.149132667	0.628289534	-0.670499
XAGE1B	14.30835141	0	0	-12.13092	IDH3G	375.9114196	612.256175	0.613977343	-0.703743	ZNF852	6.603854498	4.149132667	0.628289534	-0.670499
MT1M	14.30835141	0	0	-12.13092	RNF126	241.4795212	393.3551469	0.61389694	-0.703932	ST20	6.603854498	4.149132667	0.628289534	-0.670499
IGKJ3	14.30835141	0	0	-12.13092	DDX3Y	195.0092353	317.7954012	0.613631395	-0.704556	PP2D1	6.603854498	4.149132667	0.628289534	-0.670499
TRAJ14	14.30835141	0	0	-12.13092	SRSF8	195.0092353	317.7954012	0.613631395	-0.704556	NCCRP1	6.603854498	4.149132667	0.628289534	-0.670499
SNORD89	14.30835141	0	0	-12.13092	LAD1	102.8984901	167.7870824	0.613268248	-0.70541	C2CD4A	6.603854498	4.149132667	0.628289534	-0.670499
THRB-IT1	14.30835141	0	0	-12.13092	SON	10400.21594	16967.60761	0.612945336	-0.70617	DPF3	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	SERPIND1	132.7722453	216.6786826	0.612760996	-0.706604	XKR4	6.603854498	4.149132667	0.628289534	-0.670499
HNRNPCP7	14.30835141	0	0	-12.13092	RRAGC-DT	26.55444907	43.33573653	0.612760996	-0.706604	C2CD4D	6.603854498	4.149132667	0.628289534	-0.670499
EIF2AK3-DT	14.30835141	0	0	-12.13092	LDLR	644.7752164	1052.280577	0.612740775	-0.706651	RBM26-AS1	6.603854498	4.149132667	0.628289534	-0.670499
MAPKAPK5-	14.30835141	0	0	-12.13092	TTC21B	2552.546417	4165.78657	0.612740565	-0.706652	REV3L-IT1	6.603854498	4.149132667	0.628289534	-0.670499
LINC01287	14.30835141	0	0	-12.13092	DDX54	500.3853996	816.7119576	0.612682838	-0.706788	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	BABAM1	68.04577574	111.1172731	0.61237802	-0.707506	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
OR2AE1	14.30835141	0	0	-12.13092	DENND2B	290.4392867	474.4707563	0.612133167	-0.708083	SLC35E1P1	6.603854498	4.149132667	0.628289534	-0.670499
NUDT16L2P	14.30835141	0	0	-12.13092	SLC44A2	1101.17981	1798.988652	0.612110481	-0.708136	RPLP0P2	6.603854498	4.149132667	0.628289534	-0.670499
EXTL3-AS1	14.30835141	0	0	-12.13092	EDC4	293.7585928	480.02662	0.61196313	-0.708483	BACH1-IT1	6.603854498	4.149132667	0.628289534	-0.670499
GDNF-AS1	14.30835141	0	0	-12.13092	TXNDC5	56.42820427	92.22733671	0.611838163	-0.708778	PCBP2P2	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	RPS5	1221.504657	1996.777398	0.611738023	-0.709014	DOCK11P1	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	ENSG000002	86.30195947	141.1189369	0.611554773	-0.709446	MANEA-DT	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	WDR25	175.9232251	287.7937374	0.611282325	-0.710089	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
SNHG22	14.30835141	0	0	-12.13092	GARIN5A	37.342194	61.11450023	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	CCDC168	74.684388	122.2290005	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
H3-7	14.30835141	0	0	-12.13092	PEPD	575.0697876	941.1633035	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	DEPTOR	238.9900416	391.1328015	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	NYAP1	14.9368776	24.44580009	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
FLJ42393	14.30835141	0	0	-12.13092	VMO1	14.9368776	24.44580009	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	PPP2R5CP	14.9368776	24.44580009	0.611020198	-0.710708	ENSG000002	6.603854498	4.149132667	0.628289534	-0.670499
SEPSECS-AS	14.30835141	0	0	-12.13092	SELE	7.4684388	12.22290005	0.611020198	-0.710708	PAQR5	33.01927249	20.74566333	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	LMO1	7.4684388	12.22290005	0.611020198	-0.710708	TMEM154	33.01927249	20.74566333	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	VPS33B	7.4684388	12.22290005	0.611020198	-0.710708	ENSG000002	26.41541799	16.59653067	0.628289534	-0.670499
ENSG000002	14.30835141	0	0	-12.13092	FOXE3	7.4684388	12.22290005	0.611020198	-0.710708	PRC1-AS1	26.41541799	16.59653067	0.628289534	-0.670499
NKX2-4	13.207709	0	0	-12.13092	STIMATE	7.4684388	12.22290005	0.611020198	-0.710708	KLRF1	13.207709	8.298265334	0.628289534	-0.670499
RPL39L	13.207709	0	0	-12.13092	SGO1-AS1	7.4684388	12.22290005	0.611020198	-0.710708	GDF6	13.207709	8.298265334	0.628289534	-0.670499
C12orf50	13.207709	0	0	-12.13092	ENSG000002	7.4684388	12.22290005	0.611020198	-0.710708	NLRP11	13.207709	8.298265334	0.628289534	-0.670499
ENTHD1	13.207709	0	0	-12.13092	ATP8B2	365.1236747	597.8109295	0.610767814	-0.711304	SLC22A10	13.207709	8.298265334	0.628289534	-0.670499
KCNE1	13.207709	0	0	-12.13092	MTMR14	431.5097974	706.7058572	0.610593209	-0.711717	LRRC70	13.207709	8.298265334	0.628289534	-0.670499
CENPW	13.207709	0	0	-12.13092	CAP2	85.47213294	140.0077642	0.610481379	-0.711981	SH2D5	13.207709	8.298265334	0.628289534	-0.670499
TRAJ34	13.207709	0	0	-12.13092	ATP6V0E2	118.6651943	194.455228	0.610244299	-0.712541	LDLRAD1	13.207709	8.298265334	0.628289534	-0.670499
TRAJ33	13.207709	0	0	-12.13092	PSMB4	1292.869739	2119.006399	0.610130172	-0.712811	ENSG000002	13.207709	8.298265334	0.628289534	-0.670499
TRAJ3	13.207709	0	0	-12.13092	TRIM21	88.79143907	145.5636278	0.609983692	-0.713157	DHX29	1172.184173	736.0561351	0.627935568	-0.671312
IGHV3-15	13.207709	0	0	-12.13092	SPATA6L	33.19306133	54.44746384	0.609634664	-0.713983	GMPPA	433.653112	272.1831029	0.627651677	-0.671964
FAM72D	13.207709	0	0	-12.13092	TCFL5	297.9077255	488.9160018	0.609322919	-0.714721	EVI5L	163.99572	102.8984901	0.627446193	-0.672436
LARP1P1	13.207709	0	0	-12.13092	MIDEAS	676.3086247	1110.061559	0.609253261	-0.714886	ZFPM1	255.3490406	160.1565209	0.627206276	-0.672988
ENSG000002	13.207709	0	0	-12.13092	ZNF117	920.2776255	1511.194915	0.60897348	-0.715549	NOL3	124.372593	78.00369414	0.627177517	-0.673054
SPATA13.1	13.207709	0	0	-12.13092	FEZ1	43.98080627	72.22622754	0.60893124	-0.715649	MS4A4A	209.1220591	131.1125923	0.626966819	-0.673539
LINC02028	13.207709	0	0	-12.13092	MYO5C	526.9398487	865.6035578	0.608754255	-0.716068	SNRNP70	1855.683114	1163.4168	0.626947991	-0.673582
SPTLC1P1	13.207709	0	0	-12.13092	TM9SF4	786.6755536	1292.293887	0.608743539	-0.716094	HPS4	711.0150009	445.6168484	0.626733399	-0.674076
ANKRD63	13.207709	0	0	-12.13092	CCDC9	241.4795212	396.6886651	0.608738143	-0.716106	PLCD3	176.1027866	110.3669289	0.62671881	-0.67411
GTF2I-AS1	13.207709	0	0	-12.13092	LDLRAP1	197.4987149	324.4624376	0.608695159	-0.716208	C2CD2L	176.1027866	110.3669289	0.62671881	-0.67411
HOTAIRM1	13.207709	0	0	-12.13092	SLC18A1	18.25618373	30.00166375	0.608505711	-0.716657	KRT8	1610.239855	1009.069065	0.626657613	-0.674251
CNN3-DT	13.207709	0	0	-12.13092	ITGB7	18.25618373	30.00166375	0.608505711	-0.716657	TNIP1	723.1220675	453.0852872	0.626568193	-0.674457
ENSG000002	13.207709	0	0	-12.13092	ANKRD39	18.25618373	30.00166375	0.608505711	-0.716657	NCOA1	3424.098557	2145.101589	0.626471917	-0.674678
ENSG000002	13.207709	0	0	-12.13092	HTRA2	182.5618373	300.0166375	0.608505711	-0.716657	VPS13D	7679.182139	4809.674587	0.626326411	-0.675013
TMEM9B-AS	13.207709	0	0	-12.13092	ECHS1	817.3791354	1343.407832	0.608437077	-0.71682	RNF216	1319.670257	826.5072272	0.626298291	-0.675078
ENSG000002	13.207709	0	0	-12.13092	DMRTA1	189.2004496	311.1283648	0.608110578	-0.717594	CPT2	499.691657	312.8446031	0.626075298	-0.675592
LINC01963	13.207709	0	0	-12.13092	MYH15	47.3001124	77.7820912	0.608110578	-0.717594	PIK3C2B	1178.788028	737.7157882	0.625825654	-0.676167
ENSG000002	13.207709	0	0	-12.13092	FAM169A	236.500562	388.910456	0.608110578	-0.717594	UBXN6	834.2869516	521.9608895	0.625637125	-0.676602
ENSG000002	13.207709	0	0	-12.13092	SPNS2	29.04392867	47.78042745	0.60786247	-0.718183	PLAC8	45.12633907	28.21410213	0.625224707	-0.677553
ENSG000002	13.207709	0	0	-12.13092	NPIPB2	39.8316736	65.55919115	0.607568106	-0.718882	VSTM2A	45.12633907	28.21410213	0.625224707	-0.677553
ENSG000002	13.207709	0	0	-12.13092	SEC24C	1866.279874	3072.392602	0.607435349	-0.719197	N4BP2L2-IT2	45.12633907	28.21410213	0.625224707	-0.677553
IGKV1D-12	13.207709	0	0	-12.13092	ASB8	205.7969803	338.9076831	0.607236102	-0.719671	ODC1	4332.128551	2708.553805	0.625224707	-0.677553
HYMAI	13.207709	0	0	-12.13092	UBE2L6	209.1162864	344.4635467	0.607078132	-0.720046	ANO10	669.1905891	418.2325728	0.624982747	-0.678112
ENSG000002	13.207709	0	0	-12.13092	C4orf50	21.57548987	35.55752741	0.606777002	-0.720762	CAMK2G	617.4603955	385.869338	0.624929697	-0.678234
ENSG000002	13.207709	0	0	-12.13092	HSD17B1	10.78774493	17.7787637	0.606777002	-0.720762	ZXDC	1234.920791	771.738676	0.624929697	-0.678234
ENSG000002	13.207709	0	0	-12.13092	FTLP3	10.78774493	17.7787637	0.606777002	-0.720762	DCAF5	2564.49683	1602.395036	0.624837987	-0.678446
ENSG000002	13.207709	0	0	-12.13092	WASH7P	10.78774493	17.7787637	0.606777002	-0.720762	CANT1	1464.955056	915.2986663	0.624796414	-0.678542
GTF2IP1	13.207709	0	0	-12.13092	ENSG000002	10.78774493	17.7787637	0.606777002	-0.720762	ADARB2	38.52248457	24.06496947	0.624699308	-0.678766
TEX11	12.10706658	0	0	-12.13092	TTC38	204.9671537	337.7965104	0.606777002	-0.720762	SPAG8	70.44111464	43.98080627	0.624362725	-0.679544
COX4I2	12.10706658	0	0	-12.13092	COPE	481.2993894	793.3773302	0.606646259	-0.721073	DPP9	1030.201302	643.1155634	0.624262037	-0.679776
CLEC4D	12.10706658	0	0	-12.13092	SERPINB1	143.5599903	236.6797918	0.60655787	-0.721283	RNF208	63.83726015	39.8316736	0.623956503	-0.680483
GJC3	12.10706658	0	0	-12.13092	PIK3AP1	182.5618373	301.1278102	0.606260303	-0.721991	P2RY12	31.91863007	19.9158368	0.623956503	-0.680483
CCK	12.10706658	0	0	-12.13092	FILIP1	110.3669289	182.232328	0.605638583	-0.723471	IQCH-AS1	31.91863007	19.9158368	0.623956503	-0.680483
ENSG000002	12.10706658	0	0	-12.13092	ISM1	99.579184	164.4535643	0.605515511	-0.723764	PHF12	3005.854439	1874.578139	0.623642354	-0.681209
HLA-DRA	12.10706658	0	0	-12.13092	ADGRE2	74.684388	123.3401732	0.605515511	-0.723764	LTBP2	1654.265552	1031.474381	0.623524065	-0.681483

SERPINB4	12.10706658	0	0	-12.13092	FERMT3	63.89664307	105.5614095	0.605303049	-0.72427	PACSIN2	986.175605	614.9014612	0.623521265	-0.681489
TRAJ41	12.10706658	0	0	-12.13092	NYNRIN	230.6917763	381.1322469	0.605280131	-0.724325	TRMT10B	190.411138	118.6651943	0.62320511	-0.682221
IGHV3-11	12.10706658	0	0	-12.13092	NYAP2	39.00184707	64.44801842	0.605167514	-0.724594	INO80	1431.935784	892.0635234	0.622977325	-0.682748
CHMP5P1	12.10706658	0	0	-12.13092	HTR2C	78.00369414	128.8960368	0.605167514	-0.724594	OPTN	519.5032205	323.632348	0.622965047	-0.682777
RPL21P19	12.10706658	0	0	-12.13092	DNAJC17	53.10889814	87.78264578	0.605004528	-0.724982	PHKB	2855.066428	1778.318261	0.622864058	-0.683011
IFNA14	12.10706658	0	0	-12.13092	DNAH10	67.2159492	111.1172731	0.604909996	-0.725208	ZNF816	405.0364092	252.2672661	0.622826147	-0.683099
LINC00954	12.10706658	0	0	-12.13092	FNDC1	95.43005134	157.7865279	0.604804812	-0.725458	IRX2	25.31477557	15.76670413	0.622826147	-0.683099
ENSG000002	12.10706658	0	0	-12.13092	SORL1	1545.966832	2556.808455	0.604647106	-0.725835	ZNF844	25.31477557	15.76670413	0.622826147	-0.683099
LRRC8C-DT	12.10706658	0	0	-12.13092	ZZEF1	2008.180211	3321.295294	0.604637659	-0.725857	FAM149B1	449.0621058	279.6515417	0.622745803	-0.683285
MTND5P5	12.10706658	0	0	-12.13092	G6PD	642.2857368	1062.281131	0.604628773	-0.725878	HMGXB3	790.2612549	492.0871343	0.622689182	-0.683416
HMGB1P41	12.10706658	0	0	-12.13092	SHE	42.3211532	70.00388208	0.604554375	-0.726056	DIP2A	1636.655273	1019.026983	0.622627746	-0.683558
ENSG000002	12.10706658	0	0	-12.13092	PELP1	846.423064	1400.077642	0.604554375	-0.726056	MKLN1	1863.387611	1160.097494	0.622574438	-0.683682
ENSG000002	12.10706658	0	0	-12.13092	ZNF225-AS1	141.0705107	233.3462736	0.604554375	-0.726056	FAM171A1	926.7409145	576.7294407	0.622320038	-0.684271
ENSG000002	12.10706658	0	0	-12.13092	ITIH3	14.10705107	23.33462736	0.604554375	-0.726056	MBD2	1390.111372	864.6792478	0.622021563	-0.684964
FOXP1-DT	12.10706658	0	0	-12.13092	LRRC23	77.1738676	127.7848641	0.603935905	-0.727533	PPP1R12C	469.9743118	292.0989397	0.621521076	-0.686125
PDCD6IP-DT	12.10706658	0	0	-12.13092	ACSS3	108.7072759	180.0099825	0.603895819	-0.727628	ADCK1	162.8950776	101.2388371	0.621497215	-0.68618
ENSG000002	12.10706658	0	0	-12.13092	ZNF8-ERVK	31.53340827	52.22511838	0.603797737	-0.727863	PIM3	200.3169198	124.47398	0.621385254	-0.68644
ENSG000002	12.10706658	0	0	-12.13092	F8	570.0908284	944.4968217	0.603592109	-0.728354	CD14	375.319064	233.1812559	0.621288067	-0.686666
ENSG000002	12.10706658	0	0	-12.13092	MIER2	278.8217152	462.2478563	0.603186605	-0.729324	LSAMP	312.5824462	194.1794088	0.621210216	-0.686847
ENSG000002	12.10706658	0	0	-12.13092	C12orf76	34.8527144	57.78098203	0.603186605	-0.729324	ENSG000002	193.7130653	120.3248473	0.62114988	-0.686987
ENSG000002	12.10706658	0	0	-12.13092	P2RY4	34.8527144	57.78098203	0.603186605	-0.729324	PTPRA	4121.905849	2560.014855	0.621075529	-0.687159
HES2	11.00642416	0	0	-12.13092	KCNK2	104.5581432	173.3429461	0.603186605	-0.729324	NUMA1	8942.719632	5554.028988	0.621067104	-0.687179
RGS17	11.00642416	0	0	-12.13092	TMEM208	52.2790716	86.67147305	0.603186605	-0.729324	PCDHGA11	93.55460539	58.08785734	0.620897893	-0.687572
TBC1D30	11.00642416	0	0	-12.13092	MTSS2	553.4942978	917.8286762	0.60304751	-0.729656	LINC00174	37.42184215	23.23514293	0.620897893	-0.687572
BATF3	11.00642416	0	0	-12.13092	GOLGA2	892.0635234	1480.082078	0.602712199	-0.730459	STEAP1B	18.71092108	11.61757147	0.620897893	-0.687572
CHI3L1	11.00642416	0	0	-12.13092	SAMD10	38.17202053	63.33684569	0.60268269	-0.730529	ENSG000002	18.71092108	11.61757147	0.620897893	-0.687572
LMAN1L	11.00642416	0	0	-12.13092	NPIPB12	238.9900416	396.6886651	0.602462492	-0.731057	FCSK	86.95075089	53.93872467	0.620336502	-0.688877
LEFTY2	11.00642416	0	0	-12.13092	YPEL3	242.3093477	402.2445288	0.602393147	-0.731223	SECTM1	68.23982981	42.3211532	0.620182573	-0.689235
ASB17	11.00642416	0	0	-12.13092	GEMIN4	467.1923383	775.5985665	0.602363592	-0.731294	KLHL13	440.2569665	273.0129295	0.62012177	-0.689377
LRRC36	11.00642416	0	0	-12.13092	DENND3	535.238114	888.9381852	0.602109486	-0.731902	CARM1	812.2741032	503.7047058	0.620116662	-0.689388
S100B	11.00642416	0	0	-12.13092	ASS1	131.1125923	217.7898554	0.602014231	-0.732131	REL	532.7109295	330.2709603	0.619981573	-0.689703
GABRB1	11.00642416	0	0	-12.13092	NUDCD3	241.4795212	401.133356	0.601993122	-0.732181	KANK1	1460.552486	905.3407479	0.619861837	-0.689981
LRRC19	11.00642416	0	0	-12.13092	RNF34	617.3909408	1025.612431	0.60197295	-0.732229	DNAJC16	767.1477642	475.4906036	0.619816189	-0.690088
IRX2-DT	11.00642416	0	0	-12.13092	TGFBR2	1529.370301	2541.252037	0.601817639	-0.732602	MRPL32	357.7087853	221.5636844	0.619396821	-0.691064
ENSG000001	11.00642416	0	0	-12.13092	F13A1	977.5356563	1624.534533	0.601732765	-0.732805	ADGB	30.81798766	19.08601027	0.619313969	-0.691257
LINC00910	11.00642416	0	0	-12.13092	FAM53C	117.0055412	194.455228	0.601709414	-0.732861	MALRD1	30.81798766	19.08601027	0.619313969	-0.691257
SNHG12	11.00642416	0	0	-12.13092	TENM4	354.3359297	588.9215477	0.601669155	-0.732958	USP3-AS1	30.81798766	19.08601027	0.619313969	-0.691257
HLA-DMA	11.00642416	0	0	-12.13092	NUDT19	120.3248473	200.0110917	0.601590873	-0.733145	BORCS8	92.45396297	57.2580308	0.619313969	-0.691257
CHKB-DT	11.00642416	0	0	-12.13092	CALCOCO2	740.2052678	1231.179386	0.601216424	-0.734044	TASOR	2871.576064	1777.488434	0.618994028	-0.692003
IGHV3-21	11.00642416	0	0	-12.13092	ATG4D	212.4355925	353.3529286	0.601199468	-0.734084	CCDC62	42.92505424	26.55444907	0.618623541	-0.692866
ENSG000002	11.00642416	0	0	-12.13092	P2RX7	27.3842756	45.55808199	0.60108491	-0.734359	RPL4	6168.000101	3815.5424	0.618602843	-0.692915
ENSG000002	11.00642416	0	0	-12.13092	SLC25A1	427.3606647	711.1505481	0.600942607	-0.734701	TMEM135	446.860821	276.3322356	0.618385463	-0.693422
TARID	11.00642416	0	0	-12.13092	DHX37	317.8235623	528.9182202	0.600893579	-0.734819	PRADC1	67.13918739	41.49132667	0.617989706	-0.694345
ENSG000002	11.00642416	0	0	-12.13092	ZNF559	440.6378892	733.3740027	0.600836528	-0.734956	CYTH1	792.4625397	489.5976547	0.617818042	-0.694746
LIMD1-AS1	11.00642416	0	0	-12.13092	CLDN15	30.70358173	51.11394565	0.600688938	-0.73531	FAM3A	170.5995745	105.3879697	0.617750484	-0.694904
MTCYBP3	11.00642416	0	0	-12.13092	WSB1	1787.446353	2975.720575	0.600676814	-0.735339	MIDEAS	1095.139204	676.3086247	0.617554939	-0.695361
LINC01239	11.00642416	0	0	-12.13092	TMEM268	95.43005134	158.8977006	0.600575408	-0.735583	NDUFAF2	127.6745203	78.83352067	0.617456956	-0.69559
MTCO2P19	11.00642416	0	0	-12.13092	FSCN1	350.1867971	583.365684	0.600286933	-0.736276	UFL1	709.9143585	438.1484096	0.617184882	-0.696225
JMJD7	11.00642416	0	0	-12.13092	ANKFY1	1310.296096	2183.454417	0.600102336	-0.73672	STX7	606.4539714	374.2517665	0.617114875	-0.696389
LINC01011	11.00642416	0	0	-12.13092	THOP1	529.4293283	882.2711488	0.600075531	-0.736784	NOTCH2NLC	60.5353329	37.342194	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	ENSG000002	40.66150013	67.78153662	0.599890504	-0.737229	DNAJB14	702.2098616	433.1694504	0.616866088	-0.696971
MIR200CHG	11.00642416	0	0	-12.13092	GJD3-AS1	40.66150013	67.78153662	0.599890504	-0.737229	ATG16L2	266.3554647	164.3056536	0.616866088	-0.696971
FNBP1P1	11.00642416	0	0	-12.13092	PSMD3	1086.242932	1811.211552	0.599732776	-0.737608	METTL25	217.9271984	134.4318984	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	CLN5	91.28091867	152.2306642	0.599622416	-0.737874	NDUFB5	48.42826632	29.8737552	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	FAM171A1	576.7294407	962.2755854	0.59933916	-0.738555	NYAP1	24.21413316	14.9368776	0.616866088	-0.696971
LINC01572	11.00642416	0	0	-12.13092	PRKAR1B	67.2159492	112.2284459	0.598920788	-0.739563	CD300LF	24.21413316	14.9368776	0.616866088	-0.696971
LMO7-AS1	11.00642416	0	0	-12.13092	FOXK1	379.2307257	633.3684569	0.598752151	-0.739969	NKX6-1	12.10706658	7.4684388	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	NIT1	308.6954704	515.5841474	0.598729561	-0.740024	KCNV1	12.10706658	7.4684388	0.616866088	-0.696971
NOTCH2NLA	11.00642416	0	0	-12.13092	MYSM1	556.8136039	930.0515762	0.598691103	-0.740116	ENSG000002	12.10706658	7.4684388	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	CYB5D1	80.49317374	134.4519005	0.598676355	-0.740152	RNF123	375.319064	231.5216028	0.616866088	-0.696971
ENSG000002	11.00642416	0	0	-12.13092	KLHDC1	80.49317374	134.4519005	0.598676355	-0.740152	MBNL3	549.2205657	338.5692256	0.61645402	-0.697935
SUV39H2-DT	11.00642416	0	0	-12.13092	INPP5K	328.6113072	548.9193293	0.598651368	-0.740212	CBX6	795.764467	490.4274812	0.616297286	-0.698302
ENSG000002	11.00642416	0	0	-12.13092	WDR37	254.7567457	425.5791561	0.598611896	-0.740307	PLCB1	1723.606024	1062.177963	0.616253336	-0.698405
ENSG000002	11.00642416	0	0	-12.13092	TMTC4	341.0587052	570.0316112	0.598315424	-0.741022	GOPC	421.5460454	259.7357049	0.616150259	-0.698646
ENSG000002	11.00642416	0	0	-12.13092	ZNF219	243.9690008	407.8003924	0.598255925	-0.741165	UBXN4	1342.783748	826.5072272	0.615517747	-0.700128
ENSG000002	11.00642416	0	0	-12.13092	SLC25A16	309.5252969	517.8064929	0.597762487	-0.742356	COPZ1	569.0321292	350.1867971	0.615407776	-0.700385
ENSG000002	11.00642416	0	0	-12.13092	ASCC2	355.9955828	595.5885841	0.597720629	-0.742457	NINJ1	424.8479727	261.395358	0.61526799	-0.700713
IGLV2-8	11.00642416	0	0	-12.13092	GREB1	3023.058061	5058.058274	0.597671655	-0.742575	RSAD2	41.82441182	25.72462253	0.615062386	-0.701195
LINC00624	11.00642416	0	0	-12.13092	AKAP13	2691.957274	4504.694253	0.597589342	-0.742774	GOLM2	1587.126364	975.0461767	0.614346909	-0.702875
ENSG000002	11.00642416	0	0	-12.13092	ENKD1	43.15097974	72.22622754	0.597441971	-0.74313	THAP10	29.71734524	18.25618373	0.614327545	-0.70292
ENSG000002	11.00642416	0	0	-12.13092	NPIPA9	43.15097974	72.22622754	0.597441971	-0.74313	ANO7	195.9143501	120.3248473	0.614170668	-0.703288
ENSG000002	11.00642416	0	0	-12.13092	SLC1A2	23.23514293	38.8910456	0.597441971	-0.74313	RAB11FIP5	166.1970049	102.0686636	0.614142618	-0.703354
OR4C16	11.00642416	0	0	-12.13092	MYH8	16.59653067	27.77931829	0.597441971	-0.74313	RBM48	302.6766645	185.8811435	0.614124461	-0.703397
ENSG000002	11.00642416	0	0	-12.13092	CFAP52	16.59653067	27.77931829	0.597441971	-0.74313	PMPCB	1287.751627	790.8246863	0.614112745	-0.703425
ENSG000002	11.00642416	0	0	-12.13092	CFAP144	16.59653067	27.77931829	0.597441971	-0.74313	IRAK4	213.5246288	131.1125923	0.614039669	-0.703596
ENSG000002	11.00642416	0	0	-12.13092	KMO	9.9579184	16.66759097	0.597441971	-0.74313	APBB3	106.7623144	65.55629614	0.614039669	-0.703596
ENSG000002	11.00642416	0	0	-12.13092	ENSG000002	9.9579184	16.66759097	0.597441971	-0.74313	ANKRD10	1470.458268	902.8512683	0.613993126	-0.703706
ENSG000002	11.00642416	0	0	-12.13092	NOL8	56.42820427	94.44968217	0.597441971	-0.74313	RC3H1	2437.922952	1496.17724	0.613709813	-0.704371
ENSG000002	11.00642416	0	0	-12.13092	SLC38A4	13.27722453	22.22345463	0.597441971	-0.74313	FLG2	47.3276239	29.04392867	0.61367815	-0.704446
ENSG000002	11.00642416	0	0	-12.13092	DUSP8P5	13.27722453	22.22345463	0.597441971	-0.74313	TDRD9	47.3276239	29.04392867	0.61367815	-0.704446
NPBWR1	11.00642416	0	0	-12.13092	POLR3E	6.638612267	11.11172731	0.597441971	-0.74313	CELF5	47.3276239	29.04392867	0.61367815	-0.704446
ENSG000002	11.00642416	0	0	-12.13092	ALOX12	6.638612267	11.11172731	0.597441971	-0.74313	CWF19L2	538.2141416	330.2709603	0.613642294	-0.70453
ENSG000002	11.00642416	0	0	-12.13092	KCNJ5	6.638612267	11.11172731	0.597441971	-0.74313	CLMN	2711.982914	1663.802199	0.613500251	-0.704864
ENSG000002	11.00642416	0	0	-12.13092	FBXL9P	6.638612267	11.11172731	0.597441971	-0.74313	AFMID	253.1477557	155.1775617	0.61299205	-0.70606
ENSG000002	11.00642416	0	0	-12.13092	EVI2A	6.638612267	11.11172731	0.597441971	-0.74313	RAB12	423.7473303	259.7357049	0.612949478	-0.70616
ASNS	9.905781747	0	0	-12.13092	PRPH	6.638612267	11.11172731	0.597441971	-0.74313	JMJD4	170.5995745	104.5581432	0.612886307	-0.706309
AFM	9.905781747	0	0	-12.13092	ARID3C	6.638612267	11.11172731	0.597441971	-0.74313	SPG7	717.6188554	439.8080627	0.612871386	-0.706344
PON3	9.905781747	0	0	-12.13092	SCN1A-AS1	6.638612267	11.11172731	0.597441971	-0.74313	POLR3H	293.8715252	180.0723577	0.612758782	-0.706609
LHX3	9.905781747	0	0	-12.13092	ENSG000002	6.638612267	11.11172731	0.597441971	-0.74313	CKAP4	957.5589022	586.6873591	0.612690622	-0.706769
NOP2	9.905781747	0	0	-12.13092	ENSG000002	6.638612267	11.11172731	0.597441971	-0.74313	KIF17	52.83083598	32.3632348	0.612582296	-0.707024
SLC25A2	9.905781747	0	0	-12.13092	UNC93A	3.319306133	5.555863657	0.597441971	-0.74313	CYB5A	898.1242117	550.1749916	0.612582296	-0.707024
YWHAH-AS1	9.905781747	0	0	-12.13092	GPR18	3.319306133	5.555863657	0.597441971	-0.74313	MFF-DT	35.22055732	21.57548987	0.612582296	-0.707024
GGTLC1	9.905781747	0	0	-12.13092	RASL11B	3.319306133	5.555863657	0.597441971	-0.74313	RGS9BP	17.61027866	10.78774493	0.612582296	-0.707024
C1orf74	9.905781747	0	0	-12.13092	SH3RF2	3.319306133	5.555863657	0.597441971	-0.74313	WDR13	797.9657518	488.7678282	0.6125173	-0.707178
ZNF35	9.905781747	0	0	-12.13092	KRT28	3.319306133	5.555863657	0.597441971	-0.74313	LYSMD3	674.6938012	413.2536136	0.612505425	-0.707205
LIPM	9.905781747	0	0	-12.13092	TMEM270	3.319306133	5.555863657	0.597441971	-0.74313	KLHL18	269.657392	165.1354801	0.612389962	-0.707477
TIMM23B-AC	9.905781747	0	0	-12.13092	UBE2U	3.319306133	5.555863657	0.597441971	-0.74313	GDPD1	128.7751627	78.83352067	0.612179546	-0.707973
C5orf46	9.905781747	0	0	-12.13092	SPNS3	3.319306133	5.555863657	0.597441971	-0.74313	PLEKHO2	111.164884	68.04577574	0.612115744	-0.708124
SLC2A4	9.905781747	0	0	-12.13092	OR4F15	3.319306133	5.555863657	0.597441971	-0.74313	CHSY1	1298.758051	794.973819	0.612103092	-0.708153
ZNF284	9.905781747	0	0	-12.13092	FBXL22	3.319306133	5.555863657	0.597441971	-0.74313	B4GALT6	151.8886534	92.94057174	0.611899373	-0.708634
NHEJ1	9.905781747	0	0	-12.13092	TMEM88B	3.319306133	5.555863657	0.597441971	-0.74313	TTLL1	192.6124229	117.8353677	0.611774495	-0.708928

SCOC-AS1	9.905781747	0	0	-12.13092	LACTBL1	3.319306133	5.555863657	0.597441971	-0.74313	PCDHGB6	139.7815869	85.47213294	0.611469185	-0.709648
STPG3	9.905781747	0	0	-12.13092	CENPCP1	3.319306133	5.555863657	0.597441971	-0.74313	POLR1F	430.3511848	263.0550111	0.611256621	-0.71015
XAGE1A	9.905781747	0	0	-12.13092	CHMP3-AS1	3.319306133	5.555863657	0.597441971	-0.74313	NFX1	2168.26556	1325.232974	0.611194956	-0.710295
MT-TF	9.905781747	0	0	-12.13092	ENSG000002	3.319306133	5.555863657	0.597441971	-0.74313	TMEM88	63.83726015	39.00184707	0.610957409	-0.710856
TRAV26-1	9.905781747	0	0	-12.13092	LINC01277	3.319306133	5.555863657	0.597441971	-0.74313	MEMO1P1	63.83726015	39.00184707	0.610957409	-0.710856
ENSG000002	9.905781747	0	0	-12.13092	SMARCE1P5	3.319306133	5.555863657	0.597441971	-0.74313	UBR1	1592.629576	972.5566971	0.610660954	-0.711556
OR52I2	9.905781747	0	0	-12.13092	TECRP1	3.319306133	5.555863657	0.597441971	-0.74313	ZSCAN25	133.1777324	81.32300027	0.610635118	-0.711618
ENSG000002	9.905781747	0	0	-12.13092	LINC03000	3.319306133	5.555863657	0.597441971	-0.74313	SLC39A8	294.9721676	180.0723577	0.610472368	-0.712002
ENSG000002	9.905781747	0	0	-12.13092	RPL21P53	3.319306133	5.555863657	0.597441971	-0.74313	PRKCB	208.0214167	126.9634596	0.610338405	-0.712319
MIR181A1HG	9.905781747	0	0	-12.13092	MSANTD2-A	3.319306133	5.555863657	0.597441971	-0.74313	IFFO2	254.2483982	155.1775617	0.610338405	-0.712319
CEP250-AS1	9.905781747	0	0	-12.13092	ENSG000002	3.319306133	5.555863657	0.597441971	-0.74313	TM7SF2	277.3618889	169.2846128	0.610338405	-0.712319
RPS3P2	9.905781747	0	0	-12.13092	RYKP1	3.319306133	5.555863657	0.597441971	-0.74313	POU2F3	23.11349074	14.10705107	0.610338405	-0.712319
TSPAN19	9.905781747	0	0	-12.13092	ENSG000002	3.319306133	5.555863657	0.597441971	-0.74313	NBPF26	23.11349074	14.10705107	0.610338405	-0.712319
ENSG000002	9.905781747	0	0	-12.13092	MIR3942	3.319306133	5.555863657	0.597441971	-0.74313	KLC4	305.9785917	186.71097	0.61020926	-0.712624
MTND1P32	9.905781747	0	0	-12.13092	C1orf21-DT	3.319306133	5.555863657	0.597441971	-0.74313	TMX4	686.8008678	419.0623993	0.610165798	-0.712727
ENSG000002	9.905781747	0	0	-12.13092	ENSG000002	3.319306133	5.555863657	0.597441971	-0.74313	LNPEP	2069.207743	1262.166157	0.609975563	-0.713177
SLC26A5-AS	9.905781747	0	0	-12.13092	CYP7B1	188.3706231	315.5730557	0.596916054	-0.7444	CIPC	633.9700318	386.6991645	0.609964423	-0.713203
MTND5P26	9.905781747	0	0	-12.13092	DCAF5	1602.395036	2684.593319	0.596885578	-0.744474	PCYOX1	1445.143493	881.2757784	0.609818875	-0.713547
TAS2R39	9.905781747	0	0	-12.13092	TFAP2A	260.5655315	436.6908835	0.596681867	-0.744966	SRSF6	1010.389738	615.7312878	0.609399784	-0.714539
NANOGP4	9.905781747	0	0	-12.13092	EZH1	880.4459519	1475.637387	0.596654679	-0.745032	ZNF526	453.4646755	276.3322356	0.609379849	-0.714586
RPL36AP43	9.905781747	0	0	-12.13092	FITM2	92.1107452	154.4530097	0.596367435	-0.745727	OSCP1	275.1606041	167.6249597	0.609189532	-0.715037
RNF139-DT	9.905781747	0	0	-12.13092	ANXA7	2156.71916	3616.867241	0.596294809	-0.745902	ENSG000002	28.61670282	17.4263572	0.608957549	-0.715586
LINC00861	9.905781747	0	0	-12.13092	UBL4A	170.9442659	286.6825647	0.596284138	-0.745928	PNPLA2	451.2633907	274.6725825	0.608674641	-0.716257
MTND4P12	9.905781747	0	0	-12.13092	RGL3	456.4045934	765.598012	0.596141299	-0.746274	KCTD21	91.35332055	55.59837774	0.608608175	-0.716414
OCIAD1-AS1	9.905781747	0	0	-12.13092	MGAT1	935.2145031	1568.975897	0.596066839	-0.746454	CCDC71	336.7965794	204.9671537	0.60857849	-0.716485
ENSG000002	9.905781747	0	0	-12.13092	DIDO1	2101.120782	3526.86225	0.595747901	-0.747226	SP1	2298.141365	1398.257709	0.608429808	-0.716837
TARS1-DT	9.905781747	0	0	-12.13092	LNX1	52.2790716	87.78264578	0.595551332	-0.747702	CLHC1	319.1863007	194.1794088	0.60835759	-0.717009
ENSG000002	9.905781747	0	0	-12.13092	HMOX1	52.2790716	87.78264578	0.595551332	-0.747702	MICAL3	1732.411163	1053.879697	0.608331163	-0.717071
ALG3P1	9.905781747	0	0	-12.13092	CPT2	312.8446031	525.584702	0.595231562	-0.748477	HYAL3	34.11991491	20.74566333	0.60802213	-0.717804
ENSG000002	9.905781747	0	0	-12.13092	ENSG000002	42.3211532	71.11505481	0.595108213	-0.748776	USP24	3671.743101	2232.233375	0.607949226	-0.717977
ENSG000002	9.905781747	0	0	-12.13092	USO1	1170.055412	1966.775735	0.594910437	-0.749256	LAMTOR3	334.5952946	203.3075007	0.607622115	-0.718754
CNPY2-AS1	9.905781747	0	0	-12.13092	NPHP3	39.00184707	65.55919115	0.594910437	-0.749256	RHBDD3	79.24625397	48.12993894	0.60734655	-0.719408
PCNPP1	9.905781747	0	0	-12.13092	PFKM	412.4237871	693.3717844	0.594809014	-0.749502	TMEM260	679.0963709	412.4237871	0.607312607	-0.719489
ENSG000002	9.905781747	0	0	-12.13092	THUMPD2	224.053164	376.687556	0.594798422	-0.749527	GNE	514.0000084	312.0147765	0.607032629	-0.720154
LINC01003	9.905781747	0	0	-12.13092	TPP1	629.8383388	1058.947613	0.594777618	-0.749578	MYO1E	1351.588887	819.868615	0.60659615	-0.721192
ENSG000002	9.905781747	0	0	-12.13092	LPAR6	110.3669289	185.5658462	0.594758848	-0.749623	FAM228B	101.2591023	61.40716347	0.606435985	-0.721573
LINC02605	9.905781747	0	0	-12.13092	DEDD2	107.0476228	180.0099825	0.594676036	-0.749824	ADAMTS9	427.0492575	258.9058784	0.606267015	-0.721975
ENSG000002	9.905781747	0	0	-12.13092	NFKBIA	521.9608895	877.8264578	0.594606012	-0.749994	DNAJC2	432.5524696	262.2251845	0.606227459	-0.722069
ENSG000002	9.905781747	0	0	-12.13092	ZYG11B	604.9435428	1017.834222	0.594343882	-0.75063	SUGCT	56.13276323	34.02288787	0.60611461	-0.722337
ENSG000002	9.905781747	0	0	-12.13092	NBPF15	90.45109214	152.2306642	0.594171303	-0.751049	MXD4	398.4325547	241.4795212	0.606073772	-0.722435
ENSG000002	9.905781747	0	0	-12.13092	TAS2R5	58.08785734	97.78320037	0.594047414	-0.75135	RHOV	61.63597531	37.342194	0.605850622	-0.722966
ENSG000002	9.905781747	0	0	-12.13092	FBXO4	51.44924507	86.67147305	0.593612215	-0.752407	SRPRA	1231.618864	746.0140535	0.605718275	-0.723281
ENSG000002	9.905781747	0	0	-12.13092	PTGER2	25.72462253	43.33573653	0.593612215	-0.752407	SMURF2	1877.695962	1136.862351	0.605456034	-0.723906
ENSG000002	9.905781747	0	0	-12.13092	TPK1	25.72462253	43.33573653	0.593612215	-0.752407	UBE2E2	597.648832	361.8043685	0.605379529	-0.724088
ENSG000002	9.905781747	0	0	-12.13092	ENSG000002	25.72462253	43.33573653	0.593612215	-0.752407	MINDY3	1200.800876	726.9280432	0.605369348	-0.724112
ENSG000002	9.905781747	0	0	-12.13092	CYB561D1	99.579184	167.7870824	0.593485402	-0.752716	TOR1AIP1	1310.865118	793.3141659	0.605183672	-0.724555
ENSG000002	9.905781747	0	0	-12.13092	NF1	414.0834401	697.8164753	0.593398773	-0.752926	SLC11A2	724.2227099	438.1484096	0.60499126	-0.725014
ENSG000002	9.905781747	0	0	-12.13092	TMEM45B	96.25987787	162.2312188	0.593349903	-0.753045	TBC1D20	740.7323462	448.106328	0.604950399	-0.725111
ENSG000002	9.905781747	0	0	-12.13092	ZNF582	48.12993894	81.11560939	0.593349903	-0.753045	PTPN9	417.1434758	252.2672661	0.604749399	-0.725591
KRT88P	9.905781747	0	0	-12.13092	STXBP5L	2189.082395	3690.204641	0.593214363	-0.753375	ZNF385A	322.488228	195.0092353	0.604701873	-0.725704
ENSG000002	9.905781747	0	0	-12.13092	EPN2	509.5134915	858.9365214	0.59319109	-0.753431	EXOSC7	249.8458285	151.0284291	0.604486495	-0.726218
GUSBP2.1	9.905781747	0	0	-12.13092	TTC23	127.7932861	215.5675099	0.592822574	-0.754328	SCARB2	3667.340531	2216.466671	0.604379837	-0.726473
ENSG000002	9.905781747	0	0	-12.13092	SIRPA	309.5252969	522.2511838	0.592675147	-0.754687	TMEM161A	160.6937928	97.0897044	0.604190758	-0.726924
ENSG000002	9.905781747	0	0	-12.13092	LAGE3	60.57733694	102.2278913	0.59257152	-0.754939	UBR2	2785.725956	1682.88821	0.604111186	-0.727114
AACSP1.1	9.905781747	0	0	-12.13092	ZNF205	98.74935747	166.6759097	0.592463288	-0.755202	SNAP29	425.9486151	257.2462253	0.603937227	-0.727529
ENSG000002	9.905781747	0	0	-12.13092	AMPD2	282.9708479	477.8042745	0.592231721	-0.755766	DLG2	325.7901552	196.6688884	0.603667377	-0.728174
MEOX1	8.80513933	0	0	-12.13092	SLC45A1	34.8527144	58.89215477	0.591805726	-0.756804	PDE10A	364.3126398	219.9040313	0.60361351	-0.728303
ZPBP	8.80513933	0	0	-12.13092	PDZD4	268.8637968	454.4696472	0.591599018	-0.757308	ZNF528	419.3447606	253.0970927	0.603553726	-0.728446
ATP1B4	8.80513933	0	0	-12.13092	TTC31	97.91953094	165.564737	0.591427454	-0.757727	TSFM	38.52248457	23.23514293	0.603157953	-0.729392
ENSG000001	8.80513933	0	0	-12.13092	GGCX	429.0203178	725.5957936	0.591266269	-0.75812	ENSG000002	38.52248457	23.23514293	0.603157953	-0.729392
MYOD1	8.80513933	0	0	-12.13092	DPP3	394.1676033	666.7036389	0.591218617	-0.758236	LOXL1-AS1	33.01927249	19.9158368	0.603157953	-0.729392
DUSP26	8.80513933	0	0	-12.13092	ABCD4	252.2672661	426.6903289	0.591218617	-0.758236	INKA1	16.50963624	9.9579184	0.603157953	-0.729392
SLC25A52	8.80513933	0	0	-12.13092	WASH9P	31.53340827	53.33629111	0.591218617	-0.758236	RFX8	16.50963624	9.9579184	0.603157953	-0.729392
DNMT3L	8.80513933	0	0	-12.13092	AAMP	916.9583194	1551.197133	0.591129457	-0.758454	LLPHP3	16.50963624	9.9579184	0.603157953	-0.729392
SPINK7	8.80513933	0	0	-12.13092	NSUN4	238.9900416	404.4668742	0.590876675	-0.759071	EPM2A-DT	16.50963624	9.9579184	0.603157953	-0.729392
TAAR1	8.80513933	0	0	-12.13092	SPATA2	191.6899292	324.4624376	0.59079236	-0.759277	C8orf58	16.50963624	9.9579184	0.603157953	-0.729392
HMGA2	8.80513933	0	0	-12.13092	AIDA	219.9040313	372.242865	0.590754188	-0.75937	TAGAP-AS1	16.50963624	9.9579184	0.603157953	-0.729392
MARVELD2	8.80513933	0	0	-12.13092	QARS1	580.8785734	983.3878673	0.590691214	-0.759524	RAB31	341.1991491	205.7969803	0.603157953	-0.729392
CABP1	8.80513933	0	0	-12.13092	TMEM25	72.1949084	122.2290005	0.590652858	-0.759618	ARHGEF1	654.8822377	394.9974299	0.603157953	-0.729392
CLDN14	8.80513933	0	0	-12.13092	DHCR7	514.4924507	871.1594214	0.590583581	-0.759787	BRD2	71.54175706	43.15097974	0.603157953	-0.729392
TMEM190	8.80513933	0	0	-12.13092	POLB	555.1539508	940.0521308	0.590556558	-0.759853	KAZALD1	22.01284833	13.27722453	0.603157953	-0.729392
TLX3	8.80513933	0	0	-12.13092	AARS2	354.3359297	600.033275	0.590527133	-0.759925	DUSP8P5	22.01284833	13.27722453	0.603157953	-0.729392
LAIR1	8.80513933	0	0	-12.13092	KDM5A	2891.115642	4895.827055	0.590526506	-0.759926	UPK3BL3P	22.01284833	13.27722453	0.603157953	-0.729392
OR51N1P	8.80513933	0	0	-12.13092	ARHGAP18	209.9461129	355.5752741	0.590440698	-0.760136	ENSG000002	22.01284833	13.27722453	0.603157953	-0.729392
OR52N4	8.80513933	0	0	-12.13092	PLEKHM3	610.7523286	1034.501813	0.590383043	-0.760277	ENSG000002	22.01284833	13.27722453	0.603157953	-0.729392
SIX6	8.80513933	0	0	-12.13092	BICRA	494.5766139	837.8242395	0.590310701	-0.760454	HTR7	11.00642416	6.638612267	0.603157953	-0.729392
TMSB4XP8	8.80513933	0	0	-12.13092	RIPOR3	40.66150013	68.89270935	0.59021485	-0.760688	KCNK13	11.00642416	6.638612267	0.603157953	-0.729392
RAB42	8.80513933	0	0	-12.13092	DNAI4	205.7969803	348.9082377	0.589831245	-0.761626	TEX22	11.00642416	6.638612267	0.603157953	-0.729392
IL1RAPL2	8.80513933	0	0	-12.13092	TANGO6	289.6094601	491.1383473	0.589669819	-0.762021	ENSG000002	11.00642416	6.638612267	0.603157953	-0.729392
HMGA2-AS1	8.80513933	0	0	-12.13092	TNFRSF10D	24.894796	42.22456379	0.589580892	-0.762238	MEF2C-AS1	11.00642416	6.638612267	0.603157953	-0.729392
SNORA65	8.80513933	0	0	-12.13092	NLRC3	12.447398	21.1122819	0.589580892	-0.762238	ENSG000002	11.00642416	6.638612267	0.603157953	-0.729392
CXorf66	8.80513933	0	0	-12.13092	OR2W3	12.447398	21.1122819	0.589580892	-0.762238	ENSG000002	11.00642416	6.638612267	0.603157953	-0.729392
ATP6V0E2-A	8.80513933	0	0	-12.13092	TMCC1	603.2838898	1023.390086	0.589495539	-0.762447	POLR2J3.1	11.00642416	6.638612267	0.603157953	-0.729392
TRAV13-2	8.80513933	0	0	-12.13092	TPRA1	133.6020719	226.6792372	0.589388219	-0.76271	CCN5	5.503212081	3.319306133	0.603157953	-0.729392
TRAJ49	8.80513933	0	0	-12.13092	SNTA1	142.7301637	242.2356555	0.589220292	-0.763121	CHAT	5.503212081	3.319306133	0.603157953	-0.729392
TRAJ28	8.80513933	0	0	-12.13092	NBR1	1518.582556	2579.03191	0.588818832	-0.764104	CAMK2A	5.503212081	3.319306133	0.603157953	-0.729392
TRAJ24	8.80513933	0	0	-12.13092	IRF1-AS1	86.30195947	146.6748005	0.58838982	-0.765156	IL5RA	5.503212081	3.319306133	0.603157953	-0.729392
SNORA12	8.80513933	0	0	-12.13092	ACSM5	21.57548987	36.66870014	0.58838982	-0.765156	LRRC74A	5.503212081	3.319306133	0.603157953	-0.729392
HAUS7	8.80513933	0	0	-12.13092	RBMS1P1	21.57548987	36.66870014	0.58838982	-0.765156	ANGPT4	5.503212081	3.319306133	0.603157953	-0.729392
SCRT2	8.80513933	0	0	-12.13092	RGL1	258.9058784	440.0244016	0.58838982	-0.765156	BMX	5.503212081	3.319306133	0.603157953	-0.729392
BAZ2B-AS1	8.80513933	0	0	-12.13092	FOCAD	1544.307179	2625.701164	0.588150396	-0.765743	TGM5	5.503212081	3.319306133	0.603157953	-0.729392
MRPL20-AS1	8.80513933	0	0	-12.13092	PXDNL	48.95976547	83.33795486	0.587484605	-0.767377	OVOL3	5.503212081	3.319306133	0.603157953	-0.729392
STEAP2-AS1	8.80513933	0	0	-12.13092	BLVRB	397.4869095	676.7041934	0.587386503	-0.767618	PROX2	5.503212081	3.319306133	0.603157953	-0.729392
PNISR-AS1	8.80513933	0	0	-12.13092	PDSS2	125.3038065	213.3451644	0.587329021	-0.767759	LRFN1	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	ZNF443	409.1044809	696.7053026	0.587198747	-0.768079	NUTM2F	5.503212081	3.319306133	0.603157953	-0.729392
IMMTP1	8.80513933	0	0	-12.13092	HEBP1	518.6415834	883.3823215	0.587108855	-0.7683	ACRV1	5.503212081	3.319306133	0.603157953	-0.729392
TRGVB	8.80513933	0	0	-12.13092	ARFGAP2	438.9782362	747.8192483	0.587011149	-0.76854	CCDC54	5.503212081	3.319306133	0.603157953	-0.729392
LINC01750	8.80513933	0	0	-12.13092	UBE2O	526.9398487	897.827567	0.586905401	-0.7688	MZT2B	5.503212081	3.319306133	0.603157953	-0.729392
LINC01798	8.80513933	0	0	-12.13092	ZNF366	27.3842756	46.66925472	0.586773364	-0.769125	GALR1	5.503212081	3.319306133	0.603157953	-0.729392
SLC26A4-AS	8.80513933	0	0	-12.13092	DHRS12	18.25618373	31.11283648	0.586773364	-0.769125	MS4A15	5.503212081	3.319306133	0.603157953	-0.729392
UFL1-AS1	8.80513933	0	0	-12.13092	FUOM	9.128091867	15.55641824	0.586773364	-0.769125	LPO	5.503212081	3.319306133	0.603157953	-0.729392

DBF4P1	8.80513933	0	0	-12.13092	C9orf24	9.128091867	15.55641824	0.586773364	-0.769125	OR8J3	5.503212081	3.319306133	0.603157953	-0.729392
Y_RNA.114	8.80513933	0	0	-12.13092	SMIM10L2A	9.128091867	15.55641824	0.586773364	-0.769125	OR1F1	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	PATL2	9.128091867	15.55641824	0.586773364	-0.769125	OR5A1	5.503212081	3.319306133	0.603157953	-0.729392
IGKV1-12	8.80513933	0	0	-12.13092	TUBGCP5	9.128091867	15.55641824	0.586773364	-0.769125	TRAPPC3L	5.503212081	3.319306133	0.603157953	-0.729392
IL12A-AS1	8.80513933	0	0	-12.13092	NID1	2112.738354	3601.310823	0.586658153	-0.769408	GABRR3	5.503212081	3.319306133	0.603157953	-0.729392
BCLAF1P1	8.80513933	0	0	-12.13092	BOD1L1	2950.863153	5031.390128	0.586490627	-0.76982	FLVCR1-DT	5.503212081	3.319306133	0.603157953	-0.729392
PDLIM1P4	8.80513933	0	0	-12.13092	LRWD1	87.96161254	150.0083187	0.586378231	-0.770097	RNU6-681P	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	MKNK2	697.054288	1188.954823	0.586274831	-0.770351	RN7SKP71	5.503212081	3.319306133	0.603157953	-0.729392
ZNF346-IT1	8.80513933	0	0	-12.13092	RBM10	653.0734818	1114.50625	0.585975612	-0.771087	IGLV1-50	5.503212081	3.319306133	0.603157953	-0.729392
SIRLNT	8.80513933	0	0	-12.13092	NHERF2	296.2480724	505.5835928	0.585952702	-0.771144	YBX1P6	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	RFNG	99.579184	170.0094279	0.585727422	-0.771699	KRT18P19	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	GNB2	731.9070024	1250.069323	0.585493131	-0.772276	TRIM77	5.503212081	3.319306133	0.603157953	-0.729392
LBX2-AS1	8.80513933	0	0	-12.13092	XPNPEP3	292.0989397	498.9165564	0.585466519	-0.772341	LINC02981	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	HOXA5	24.06496947	41.11339106	0.585331661	-0.772674	NBPF7P	5.503212081	3.319306133	0.603157953	-0.729392
LINC00638	8.80513933	0	0	-12.13092	RPL18AP3	24.06496947	41.11339106	0.585331661	-0.772674	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	ENSG000002	24.06496947	41.11339106	0.585331661	-0.772674	ZKSCAN8P1	5.503212081	3.319306133	0.603157953	-0.729392
FABP5P9	8.80513933	0	0	-12.13092	FAM8A1	198.3285415	338.9076831	0.585199308	-0.773	LINC01277	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	WDTC1	893.7231764	1527.862506	0.584950002	-0.773615	C1DP1	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	GEMIN8	83.81247987	143.3412824	0.584705805	-0.774217	EHBP1-AS1	5.503212081	3.319306133	0.603157953	-0.729392
MYZAP	8.80513933	0	0	-12.13092	GBP1	83.81247987	143.3412824	0.584705805	-0.774217	LINC00865	5.503212081	3.319306133	0.603157953	-0.729392
DTX2P1-UPK	8.80513933	0	0	-12.13092	ADAM21P1	14.9368776	25.55697282	0.584454102	-0.774838	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	ENSG000002	14.9368776	25.55697282	0.584454102	-0.774838	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	ANGPTL4	44.8106328	76.67091847	0.584454102	-0.774838	PCBP2P1	5.503212081	3.319306133	0.603157953	-0.729392
IGHV3-30	8.80513933	0	0	-12.13092	WBP2NL	44.8106328	76.67091847	0.584454102	-0.774838	RPS28P4	5.503212081	3.319306133	0.603157953	-0.729392
IRF2-DT	8.80513933	0	0	-12.13092	SERPINB6	973.3865236	1665.647924	0.584389119	-0.774999	HOGA1	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	APBB1IP	65.55629614	112.2284459	0.58413262	-0.775632	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	TMEM120B	187.5407965	321.1289194	0.584004695	-0.775948	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
LCDR	8.80513933	0	0	-12.13092	POFUT2	249.7777865	427.8015016	0.583863744	-0.776296	SNORA74	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	UQCRC2	35.68254093	61.11450023	0.583863744	-0.776296	LINC02235	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	DCAF6	1565.052842	2681.259801	0.583700558	-0.7767	MIR3677HG	5.503212081	3.319306133	0.603157953	-0.729392
H2AC17	8.80513933	0	0	-12.13092	HOXC6	41.49132667	71.11505481	0.583439425	-0.777345	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	PSTPIP1	20.74566333	35.55752741	0.583439425	-0.777345	TBX2-AS1	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	GRIN2A	20.74566333	35.55752741	0.583439425	-0.777345	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	NUMBL	358.4850624	614.4785205	0.583397223	-0.77745	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	SNX33	195.0092353	334.4629922	0.583051757	-0.778304	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	BACE1	73.85456147	126.6736914	0.583029994	-0.778358	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	SUGP2	2128.505058	3651.313596	0.582942276	-0.778575	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	SPAG4	26.55444907	45.55808199	0.582870216	-0.778753	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	MON1B	271.3532764	465.5813745	0.582826744	-0.778861	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	DTX4	85.47213294	146.6748005	0.582732225	-0.779095	C2orf27A	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	UQCC4	58.91768387	101.1167186	0.582670054	-0.779249	ENSG000002	5.503212081	3.319306133	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	EVL	359.3148889	616.7008659	0.582640481	-0.779322	RNF146	396.2312699	238.9900416	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	MMACHC	91.28091867	156.6753551	0.582611851	-0.779393	SPRY2	137.580302	82.98265334	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	ITGA2	97.0897044	166.6759097	0.582505922	-0.779655	HCK	121.0706658	73.02473494	0.603157953	-0.729392
ENSG000002	8.80513933	0	0	-12.13092	NXT2	167.6249597	287.7937374	0.582448253	-0.779798	ERICH1	449.0621058	270.5234499	0.602418789	-0.731161
ENSG000002	8.80513933	0	0	-12.13092	DNM2	1772.509475	3043.502111	0.582391406	-0.779939	ZNF503	416.0428334	250.6076131	0.602360125	-0.731302
ENSG000002	8.80513933	0	0	-12.13092	TSPYL4	249.7777865	428.9126743	0.582351144	-0.780039	SIX4	850.7965878	512.0029711	0.601792459	-0.732662
ENSG000002	8.80513933	0	0	-12.13092	SLC18B1	43.98080627	75.55974574	0.582066626	-0.780744	DRC3	108.9635992	65.55629614	0.601634827	-0.73304
ENSG000002	8.80513933	0	0	-12.13092	PCGF3	292.9287663	503.3612473	0.581945408	-0.781044	ENSG000002	108.9635992	65.55629614	0.601634827	-0.73304
ENSG000002	8.80513933	0	0	-12.13092	RNF166	67.2159492	115.5619641	0.581644226	-0.781791	SGCD	86.95075089	52.2790716	0.601249225	-0.733965
MLC1	7.704496914	0	0	-12.13092	ANKRD13D	259.7357049	446.691438	0.5814656	-0.782234	ISL1	222.3297681	133.6020719	0.600918505	-0.734759
TAF7L	7.704496914	0	0	-12.13092	TRIM16	107.8774493	185.5658462	0.581343235	-0.782538	ZNF697	140.8822293	84.6423064	0.600801867	-0.735039
ERI1	7.704496914	0	0	-12.13092	NDFIP1	1237.271361	2129.006953	0.581149516	-0.783019	EEF1A1	17474.89964	10490.66703	0.600327741	-0.736178
SLC10A2	7.704496914	0	0	-12.13092	DNAAF8	11.61757147	20.00110917	0.580846361	-0.783771	RBBP8NL	53.9314784	32.3632348	0.600080616	-0.736772
OPRL1	7.704496914	0	0	-12.13092	SPTSSB	11.61757147	20.00110917	0.580846361	-0.783771	KANSL1L-AS	53.9314784	32.3632348	0.600080616	-0.736772
OR11H1	7.704496914	0	0	-12.13092	ARL2	75.51421454	130.0072096	0.580846361	-0.783771	NAB2	102.3597447	61.40716347	0.599915168	-0.73717
BAAT	7.704496914	0	0	-12.13092	GPR4	63.89664307	110.0061004	0.580846361	-0.783771	CTDSP2	489.7858753	293.7585928	0.599769425	-0.73752
NR5A1	7.704496914	0	0	-12.13092	ADGRF1	17.4263572	30.00166375	0.580846361	-0.783771	ZNF385C	48.42826632	29.04392867	0.599730919	-0.737613
FGF5	7.704496914	0	0	-12.13092	LGI4	17.4263572	30.00166375	0.580846361	-0.783771	PTPRB	1129.259119	677.1384512	0.599630713	-0.737854
POU2AF2	7.704496914	0	0	-12.13092	CRYM	5.808785734	10.00055458	0.580846361	-0.783771	LMCD1	429.2505424	257.2462253	0.599291556	-0.73867
HTR6	7.704496914	0	0	-12.13092	RNF175	5.808785734	10.00055458	0.580846361	-0.783771	BCAS4	42.92505424	25.72462253	0.599291556	-0.73867
SPATA19	7.704496914	0	0	-12.13092	SERF1A	5.808785734	10.00055458	0.580846361	-0.783771	DCAF6	2612.925096	1565.052842	0.598965827	-0.739454
NAT16	7.704496914	0	0	-12.13092	SMN1	5.808785734	10.00055458	0.580846361	-0.783771	MAFB	465.5717421	278.8217152	0.598880237	-0.739661
KCNV2	7.704496914	0	0	-12.13092	REP15	5.808785734	10.00055458	0.580846361	-0.783771	DNHD1	347.8030036	208.2864599	0.598863316	-0.739701
OTP	7.704496914	0	0	-12.13092	ABRA	5.808785734	10.00055458	0.580846361	-0.783771	ABRAXAS1	230.034265	137.7512045	0.598829068	-0.739784
LPCAT4	7.704496914	0	0	-12.13092	TRIM73	5.808785734	10.00055458	0.580846361	-0.783771	SORBS3	1069.824429	640.6260838	0.598814223	-0.73982
FAM9A	7.704496914	0	0	-12.13092	RPA4	5.808785734	10.00055458	0.580846361	-0.783771	TMEM86A	37.42184215	22.4053164	0.598722968	-0.740039
DLEU7	7.704496914	0	0	-12.13092	PA2G4P4	5.808785734	10.00055458	0.580846361	-0.783771	ZNF76	368.7152095	220.7338579	0.598656774	-0.740199
FAM110D	7.704496914	0	0	-12.13092	NPIPB8	5.808785734	10.00055458	0.580846361	-0.783771	PRRT3	320.2869431	191.6899292	0.59849436	-0.74059
Y_RNA.20	7.704496914	0	0	-12.13092	TALAM1	5.808785734	10.00055458	0.580846361	-0.783771	MTMR3	1200.800876	718.6297779	0.598458739	-0.740676
SYT15	7.704496914	0	0	-12.13092	STRIP1	418.2325728	720.03993	0.580846361	-0.783771	RAP1B	1937.130653	1159.267667	0.598445781	-0.740708
PSG5	7.704496914	0	0	-12.13092	MYO1F	168.4547863	290.0160829	0.580846361	-0.783771	PRANCR	31.91863007	19.08601027	0.597958315	-0.741883
TRGJP1	7.704496914	0	0	-12.13092	VGLL4	623.1997266	1073.392859	0.580588665	-0.784412	AHR	159.5931504	95.43005134	0.597958315	-0.741883
TRAJ21	7.704496914	0	0	-12.13092	SIX1	182.5618373	314.461883	0.580553152	-0.7845	C14orf28	95.75589022	57.2580308	0.597958315	-0.741883
TRAJ16	7.704496914	0	0	-12.13092	RNPC3	648.0945226	1116.728595	0.580350969	-0.785002	STS	276.2612465	165.1354801	0.597751159	-0.742383
RNU6-679P	7.704496914	0	0	-12.13092	SYVN1	520.3012364	896.7163943	0.580229423	-0.785305	EBPL	122.1713082	73.02473494	0.597724097	-0.742448
ENSG000002	7.704496914	0	0	-12.13092	PDGFRL	48.95976547	84.44912759	0.579754544	-0.786486	PACS2	1130.359762	675.4787982	0.597578595	-0.7428
SUPT4H1	7.704496914	0	0	-12.13092	NFKBIE	43.15097974	74.44857301	0.579607882	-0.786851	ZNF512B	826.5824546	493.7467874	0.59733519	-0.743387
GPR89P	7.704496914	0	0	-12.13092	ADA2	80.49317374	138.8965914	0.579518712	-0.787073	FAM53C	195.9143501	117.0055412	0.597228029	-0.743646
MYBPHL	7.704496914	0	0	-12.13092	SCAND1	278.8217152	481.1377927	0.579504914	-0.787107	HEXIM1	766.0471217	457.2344199	0.596875058	-0.744499
DIP2A-IT1	7.704496914	0	0	-12.13092	PEX7	229.8619497	396.6886651	0.579451772	-0.78724	LRRC53	26.41541799	15.76670413	0.596875058	-0.744499
LINC00863	7.704496914	0	0	-12.13092	YIF1B	180.9021843	312.2395375	0.579369883	-0.787443	LRRC73	26.41541799	15.76670413	0.596875058	-0.744499
EIF3LP3	7.704496914	0	0	-12.13092	SH3D21	200.8180211	346.6858922	0.579250629	-0.78774	EIF4BP7	26.41541799	15.76670413	0.596875058	-0.744499
NUP50-DT	7.704496914	0	0	-12.13092	RSKR	163.4758271	282.2378738	0.579212934	-0.787834	FBXW10B	26.41541799	15.76670413	0.596875058	-0.744499
ENSG000002	7.704496914	0	0	-12.13092	CDC42EP4	289.6094601	500.0277291	0.5791868	-0.787899	SLC38A4-AS	26.41541799	15.76670413	0.596875058	-0.744499
ENSG000002	7.704496914	0	0	-12.13092	ZDHHC3	183.3916639	316.6842285	0.579099454	-0.788117	NME3	105.661672	63.06681654	0.596875058	-0.744499
TCP1P1	7.704496914	0	0	-12.13092	ANKS6	420.7220524	726.7069664	0.578943194	-0.788506	MMACHC	152.9892959	91.28091867	0.596649054	-0.745045
TTTY10	7.704496914	0	0	-12.13092	ARHGEF4	82.98265334	143.3412824	0.578916638	-0.788572	DELE1	406.1370516	242.3093477	0.596619655	-0.745117
PANK2-AS1	7.704496914	0	0	-12.13092	CCNL1	1004.090105	1734.540634	0.578879552	-0.788665	SLC7A2	353.3062156	210.7759395	0.596581464	-0.745209
TMSB4XP6	7.704496914	0	0	-12.13092	ZNF280D	134.4318984	232.2351009	0.57886124	-0.788711	ADAMTS17	121.0706658	72.1949084	0.596303885	-0.74588
ENSG000002	7.704496914	0	0	-12.13092	IL17RA	288.7796336	498.9165564	0.578813491	-0.78883	ITGAM	189.3104956	112.8564085	0.596144488	-0.746266
APPAT	7.704496914	0	0	-12.13092	LOXL3	77.1738676	133.3407278	0.578771909	-0.788933	CCDC170	47.3276239	28.21410213	0.596144488	-0.746266
RPL7L1P2	7.704496914	0	0	-12.13092	CNR1	25.72462253	44.44690926	0.578771909	-0.788933	FOXK1	636.1713166	379.2307257	0.596114153	-0.746339
EEF1A1P3	7.704496914	0	0	-12.13092	KHDRBS3	25.72462253	44.44690926	0.578771909	-0.788933	PDSS2	210.2227015	125.3038065	0.596052689	-0.746488
TM9SF5P	7.704496914	0	0	-12.13092	TSC22D2	824.0177476	1424.523442	0.578451518	-0.789732	CTSS	959.760187	571.7504815	0.595722233	-0.747288
AP2B1P1	7.704496914	0	0	-12.13092	NMRK1	65.55629614	113.3396186	0.57840583	-0.789846	NPAS3	220.1284833	131.1125923	0.595618478	-0.74754
LINC02983	7.704496914	0	0	-12.13092	FBLIM1	85.47213294	147.7859733	0.57835078	-0.789983	SIN3B	1021.396162	608.262849	0.595520985	-0.747776
OR5H14	7.704496914	0	0	-12.13092	ABL1	960.1092991	1660.092061	0.578347022	-0.789993	TIGD6	256.449683	152.6880821	0.595391971	-0.748088
ENSG000002	7.704496914	0	0	-12.13092	RNF208	39.8316736	68.89270935	0.578169649	-0.790435	SACM1L	1109.447556	660.5419206	0.59537913	-0.748119
LINC00426	7.704496914	0	0	-12.13092	LHPP	241.4795212	417.800947	0.577977439	-0.790915	ARHGEF17	1490.269832	887.0845642	0.595250971	-0.74843
STPG4	7.704496914	0	0	-12.13092	NBEA	1170.055412	2024.556717	0.577931654	-0.791029	GTPBP10	313.6830886	186.71097	0.595221664	-0.748501

ADAMTS9-A	7.704496914	0	0	-12.13092	RBM19	715.3104718	1237.846423	0.577866897	-0.791191	CC2D1B	266.3554647	158.4968679	0.595057691	-0.748899
NME2	7.704496914	0	0	-12.13092	SSU72	553.4942978	957.8308945	0.577862231	-0.791203	GALC	1216.20987	723.6087371	0.594970288	-0.74911
RASA2-IT1	7.704496914	0	0	-12.13092	DPH7	312.0147765	540.0299475	0.577773099	-0.791425	CRTC3	1336.179893	794.973819	0.594960172	-0.749135
PCDH10-DT	7.704496914	0	0	-12.13092	RUSC2	444.7870219	770.0427029	0.57761345	-0.791824	CNKSR2	338.9978642	201.6478476	0.594835156	-0.749438
ENSG000002	7.704496914	0	0	-12.13092	HELQ	351.0166236	607.8114841	0.577509035	-0.792085	FBXO31	198.1156349	117.8353677	0.594780759	-0.74957
RNU6-1016P	7.704496914	0	0	-12.13092	GTF3C2	849.7423702	1472.303869	0.577151489	-0.792978	DNAH12	99.05781747	58.91768387	0.594780759	-0.74957
USP12P1	7.704496914	0	0	-12.13092	UNK	578.3890938	1002.277804	0.577074631	-0.79317	NTN1	156.2912231	92.94057174	0.59466277	-0.749856
LNCOC1	7.704496914	0	0	-12.13092	DNAJB12	436.4887566	756.7086301	0.576825398	-0.793793	STXBP5	2435.721667	1448.047301	0.594504421	-0.750241
ENSG000002	7.704496914	0	0	-12.13092	PCNX1	2321.85464	4028.001151	0.576428495	-0.794786	CSGALNAC1	744.0342734	442.2975423	0.594458559	-0.750352
ENSG000002	7.704496914	0	0	-12.13092	COMMD9	95.43005134	165.564737	0.576391163	-0.79488	NCR3LG1	57.23340565	34.02288787	0.594458559	-0.750352
IGSF22-AS1	7.704496914	0	0	-12.13092	PYCARD	22.4053164	38.8910456	0.576104758	-0.795597	MYH4	36.32119974	21.57548987	0.594019196	-0.751419
TRAV1-1	7.704496914	0	0	-12.13092	MICALL1	120.3248473	208.9004735	0.575991262	-0.795881	KREMEN1	315.8843735	187.5407965	0.593700772	-0.752192
ENSG000002	7.704496914	0	0	-12.13092	PINK1-AS	97.91953094	170.0094279	0.575965299	-0.795946	RNF11	507.3961539	301.2270316	0.59367228	-0.752261
DIO3OS	7.704496914	0	0	-12.13092	RPL14P1	53.10889814	92.22733671	0.575847683	-0.796241	CDK13	2033.987185	1207.397606	0.593611216	-0.75241
PPIAP4	7.704496914	0	0	-12.13092	PDGFRB	1050.560391	1824.545625	0.575792886	-0.796378	TMEM248	1343.88439	797.4632986	0.593401712	-0.752919
CERS3-AS1	7.704496914	0	0	-12.13092	RASSF1	69.7054288	121.1178277	0.575517495	-0.797068	GALNT12	232.2355498	137.7512045	0.593152963	-0.753524
LINC02977	7.704496914	0	0	-12.13092	SNX19	509.5134915	885.604667	0.575328372	-0.797542	ZNF654	779.2548307	462.2133791	0.593147916	-0.753536
SNHG19	7.704496914	0	0	-12.13092	AP3D1	2774.939928	4823.600827	0.575283907	-0.797654	MICALL2	361.0107125	214.0952456	0.593044024	-0.753789
COX6CP1	7.704496914	0	0	-12.13092	EZR	1971.667843	3427.967876	0.575171038	-0.797937	IDH3G	633.9700318	375.9114196	0.592948248	-0.754022
ARLNC1	7.704496914	0	0	-12.13092	KCTD1	346.8674909	603.3667932	0.574886611	-0.798651	SERPINB1	242.1413316	143.5599903	0.592876851	-0.754196
ENSG000002	7.704496914	0	0	-12.13092	SOAT1	1012.388371	1761.208779	0.574825871	-0.798803	PCGF3	494.1884449	292.9287663	0.592747097	-0.754511
ENSG000002	7.704496914	0	0	-12.13092	TMEM168	465.5326852	810.0449212	0.574699838	-0.799119	SUN2	1163.379034	689.5858492	0.59274392	-0.754519
TFIP11-DT	7.704496914	0	0	-12.13092	LAMTOR1	490.4274812	853.3806577	0.574687833	-0.79915	ANGEL2	1219.511797	722.7789106	0.5926789	-0.754677
PAN3-AS1	7.704496914	0	0	-12.13092	GPATCH3	188.3706231	327.7959558	0.574658167	-0.799224	TMEM106B	648.2783832	384.2096849	0.592661571	-0.75472
ENSG000002	7.704496914	0	0	-12.13092	FER1L6	49.789592	86.67147305	0.574463434	-0.799713	CSK	338.9978642	200.8180211	0.592387275	-0.755387
LINC02185	7.704496914	0	0	-12.13092	PCDHGA12	41.49132667	72.22622754	0.574463434	-0.799713	MROH9	15.40899383	9.128091867	0.592387275	-0.755387
ZNF407-AS1	7.704496914	0	0	-12.13092	FCGR2B	8.298265334	14.44524551	0.574463434	-0.799713	MYPN	15.40899383	9.128091867	0.592387275	-0.755387
ENSG000002	7.704496914	0	0	-12.13092	SLC14A1	8.298265334	14.44524551	0.574463434	-0.799713	GPR26	15.40899383	9.128091867	0.592387275	-0.755387
MIR142HG	7.704496914	0	0	-12.13092	CD300E	8.298265334	14.44524551	0.574463434	-0.799713	CLDND2	15.40899383	9.128091867	0.592387275	-0.755387
SETBP1-DT	7.704496914	0	0	-12.13092	ENSG000002	8.298265334	14.44524551	0.574463434	-0.799713	BCL2L15	15.40899383	9.128091867	0.592387275	-0.755387
CCDC177	7.704496914	0	0	-12.13092	CLCA4-AS1	8.298265334	14.44524551	0.574463434	-0.799713	LINC00115	15.40899383	9.128091867	0.592387275	-0.755387
ENSG000002	7.704496914	0	0	-12.13092	SLURP2	8.298265334	14.44524551	0.574463434	-0.799713	NDUFV2P1	15.40899383	9.128091867	0.592387275	-0.755387
ENSG000002	7.704496914	0	0	-12.13092	TRDMT1	99.579184	173.3429461	0.574463434	-0.799713	PLCD1	102.3597447	60.57733694	0.591808206	-0.756798
ATP6V0D1-D	7.704496914	0	0	-12.13092	INPP5E	229.0321232	398.9110106	0.574143398	-0.800517	MPHOSPH10	541.5160688	320.3130419	0.59151161	-0.757522
MIR222HG	7.704496914	0	0	-12.13092	SEMA5B	85.47213294	148.897146	0.57403473	-0.80079	STARD13	336.7965794	199.158368	0.591331326	-0.757961
ENSG000002	7.704496914	0	0	-12.13092	MAPKBP1	206.6268068	360.019965	0.573931523	-0.801049	C3orf62	96.85653263	57.2580308	0.591163335	-0.758371
ENSG000002	7.704496914	0	0	-12.13092	REXO1	536.8977671	935.6074399	0.573849399	-0.801256	ENSG000002	40.7237694	24.06496947	0.590931778	-0.758937
ENSG000002	7.704496914	0	0	-12.13092	METTL27	52.2790716	91.11616398	0.573762868	-0.801473	EXOC4	1745.618872	1031.474381	0.590893234	-0.759031
GCAWKR	7.704496914	0	0	-12.13092	ZNF771	43.98080627	76.67091847	0.573630878	-0.801805	NCOA3	3397.683139	2007.350384	0.59079976	-0.759259
ENSG000002	7.704496914	0	0	-12.13092	DNAJC16	475.4906036	828.9348577	0.57361637	-0.801842	CDS1	198.1156349	117.0055412	0.590592162	-0.759766
ENSG000002	7.704496914	0	0	-12.13092	CLPTM1	1442.238515	2514.583891	0.573549572	-0.80201	AKR7A3	101.2591023	59.7475104	0.590045823	-0.761101
ENSG000002	7.704496914	0	0	-12.13092	NLE1	142.7301637	248.9026918	0.573437606	-0.802292	SFXN2	177.203429	104.5581432	0.590045823	-0.761101
ENSG000002	7.704496914	0	0	-12.13092	ZNHIT1	107.0476228	186.6770189	0.573437606	-0.802292	ZNF320	1063.220574	627.3488592	0.590045823	-0.761101
ZFP91P1	7.704496914	0	0	-12.13092	COG8	134.4318984	234.4574463	0.573374403	-0.802451	BLOC1S3	75.94432672	44.8106328	0.590045823	-0.761101
HEPFAL	7.704496914	0	0	-12.13092	ATP7A	728.5876963	1271.181605	0.573157835	-0.802996	FOXS1	25.31477557	14.9368776	0.590045823	-0.761101
ENSG000002	7.704496914	0	0	-12.13092	SCRN1	312.0147765	544.4746384	0.573056584	-0.80325	MBLAC1	25.31477557	14.9368776	0.590045823	-0.761101
SEC22B2P	7.704496914	0	0	-12.13092	BICD2	426.5308382	744.4857301	0.572920099	-0.803594	SHROOM4	212.4239863	125.3038065	0.589875977	-0.761516
LINC01297	7.704496914	0	0	-12.13092	DDX49	180.0723577	314.461883	0.572636518	-0.804308	THEMIS2	161.7944352	95.43005134	0.589822828	-0.761646
ENSG000002	7.704496914	0	0	-12.13092	SIRT3	114.5160616	200.0110917	0.572548555	-0.80453	CDC42EP3	1054.415435	621.5400735	0.589464127	-0.762524
ENSG000002	7.704496914	0	0	-12.13092	GATAD1	114.5160616	200.0110917	0.572548555	-0.80453	TMEM184B	810.0728184	477.1502567	0.589021438	-0.763608
ENSG000002	7.704496914	0	0	-12.13092	DAPK2	38.17202053	66.67036389	0.572548555	-0.80453	VNN3P	35.22055732	20.74566333	0.589021438	-0.763608
ENSG000002	7.704496914	0	0	-12.13092	EBI3	19.08601027	33.33518194	0.572548555	-0.80453	WDR5B-DT	35.22055732	20.74566333	0.589021438	-0.763608
ENSG000002	7.704496914	0	0	-12.13092	SYNJ2	843.1037579	1473.415042	0.572210636	-0.805382	RABEP1	1996.565343	1175.864198	0.588943508	-0.763799
ENSG000002	7.704496914	0	0	-12.13092	CAPN1	796.633472	1392.299432	0.572171081	-0.805482	MSR1	477.6788087	281.3111948	0.588912863	-0.763874
ENSG000002	7.704496914	0	0	-12.13092	ADCY5	676.3086247	1182.287786	0.572033842	-0.805828	ZFHX3	8391.297782	4941.617006	0.588897824	-0.763911
ENSG000002	7.704496914	0	0	-12.13092	DIS3L2	705.3525534	1233.401732	0.57187576	-0.806226	DIAPH2	1186.492525	698.7139411	0.588890302	-0.763929
ENSG000002	7.704496914	0	0	-12.13092	TMEM109	265.5444907	464.4702017	0.571714805	-0.806632	ZNF589	336.7965794	198.3285415	0.588867446	-0.763985
ENSG000002	7.704496914	0	0	-12.13092	WDR24	235.6707355	412.2450834	0.571676279	-0.80673	AGBL3	115.5674537	68.04577574	0.588797049	-0.764158
ENSG000002	7.704496914	0	0	-12.13092	ACADSB	445.6168484	780.0432575	0.57127197	-0.80775	METTL3	883.8158603	520.3012364	0.588698687	-0.764399
ENSG000002	7.704496914	0	0	-12.13092	RHCE	32.3632348	56.6698093	0.571084237	-0.808225	ZNF746	296.07281	174.263572	0.588583504	-0.764681
HSP90AB4P	7.704496914	0	0	-12.13092	SOBP	237.3303885	415.5786016	0.571084237	-0.808225	IL17RA	490.8865177	288.7796336	0.58828186	-0.765421
ENSG000002	7.704496914	0	0	-12.13092	CNBD2	43.15097974	75.55974574	0.571084237	-0.808225	CCNL2	1101.743059	648.0945226	0.588244707	-0.765512
ENSG000002	7.704496914	0	0	-12.13092	EFHB	43.15097974	75.55974574	0.571084237	-0.808225	RAB21	735.2291341	432.3396239	0.588033858	-0.766029
CCDC39	7.704496914	0	0	-12.13092	ARMC12	10.78774493	18.88993643	0.571084237	-0.808225	RAP2B	285.0663858	167.6249597	0.588020784	-0.766061
ENSG000002	7.704496914	0	0	-12.13092	PCDHGB8P	10.78774493	18.88993643	0.571084237	-0.808225	SLC35B4	175.0021442	102.8984901	0.587984168	-0.766151
ENSG000002	7.704496914	0	0	-12.13092	TUBB8	10.78774493	18.88993643	0.571084237	-0.808225	NT5C2	1234.920791	726.0982167	0.587971489	-0.766182
ENSG000002	7.704496914	0	0	-12.13092	AGO4	371.7622869	651.1472206	0.570934307	-0.808603	TBX2	294.9721676	173.4337455	0.587966475	-0.766194
ENSG000002	7.704496914	0	0	-12.13092	KLHL25	145.2196433	254.4585555	0.570700573	-0.809194	ZNF655	673.5931588	395.8272564	0.587635506	-0.767007
ENSG000002	7.704496914	0	0	-12.13092	TNFAIP2	217.4145517	381.1322469	0.570443864	-0.809843	FEZ1	74.84368431	43.98080627	0.587635506	-0.767007
SORD2P	7.704496914	0	0	-12.13092	HSPBP1	198.3285415	347.7970649	0.570242137	-0.810353	ALG13	3901.777366	2292.810712	0.587632378	-0.767014
ENSG000002	7.704496914	0	0	-12.13092	ARRDC4	152.6880821	267.7926283	0.570172835	-0.810529	TRIM56	498.5910146	292.9287663	0.587513127	-0.767307
ENSG000002	7.704496914	0	0	-12.13092	MOSPD3	61.40716347	107.7837549	0.569725591	-0.811661	METTL14	583.3404806	342.7183583	0.587509987	-0.767315
BMS1P1.1	7.704496914	0	0	-12.13092	CSNK1D	1523.561515	2674.592765	0.569642428	-0.811871	OGFR	423.7473303	248.94796	0.587491513	-0.76736
ENSG000002	7.704496914	0	0	-12.13092	FAM149A	37.342194	65.55919115	0.569595099	-0.811991	BICDL2	189.3104956	111.1967555	0.587377658	-0.76764
DNAAF6	6.603854498	0	0	-12.13092	MYO9B	1509.454464	2651.258137	0.569335156	-0.81265	WASF3	323.5888704	190.0302761	0.587258381	-0.767933
HAO1	6.603854498	0	0	-12.13092	IFTAP	13.27722453	23.33462736	0.568992353	-0.813519	SMPD1	586.6424079	344.3780113	0.587032248	-0.768488
CPZ	6.603854498	0	0	-12.13092	EGFL6	13.27722453	23.33462736	0.568992353	-0.813519	ZNF74	154.0899383	90.45109214	0.587001936	-0.768563
IL26	6.603854498	0	0	-12.13092	NFIC	1609.033648	2829.045774	0.568754901	-0.814121	TRIM24	1833.670266	1076.285014	0.586956681	-0.768674
PDE8B	6.603854498	0	0	-12.13092	KEAP1	723.6087371	1272.292777	0.568743885	-0.814149	GNL3	1189.794452	697.8841146	0.586558555	-0.769653
CSN1S1	6.603854498	0	0	-12.13092	RGS12	813.2300027	1430.079305	0.568660773	-0.81436	ISM2	39.62312699	23.23514293	0.586403565	-0.770034
RDH5	6.603854498	0	0	-12.13092	SAMD4B	830.6563599	1461.192142	0.568478529	-0.814822	RRN3	19.81156349	11.61757147	0.586403565	-0.770034
ANP32D	6.603854498	0	0	-12.13092	PRPF6	1362.575168	2399.021927	0.567971119	-0.816111	ENSG000002	19.81156349	11.61757147	0.586403565	-0.770034
RASGEF1C	6.603854498	0	0	-12.13092	LRRC28	107.8774493	190.0105371	0.567744563	-0.816686	ANKMY2	376.4197064	220.7338579	0.586403565	-0.770034
TAAR2	6.603854498	0	0	-12.13092	DMAP1	231.5216028	407.8003924	0.567732663	-0.816716	FILIP1	188.2098532	110.3669289	0.586403565	-0.770034
PRDM14	6.603854498	0	0	-12.13092	EFCAB13	63.06681654	111.1172731	0.567569872	-0.81713	CCDC106	79.24625397	46.47028587	0.586403565	-0.770034
IFNA16	6.603854498	0	0	-12.13092	AIDAP1	15.76670413	27.77931829	0.567569872	-0.81713	SLC26A1	9.905781747	5.808785734	0.586403565	-0.770034
TLCD3B	6.603854498	0	0	-12.13092	CCDC57	370.1026339	652.2583934	0.567417204	-0.817518	GTF2H2	9.905781747	5.808785734	0.586403565	-0.770034
ENKUR	6.603854498	0	0	-12.13092	PDRG1	112.8564085	198.8999189	0.567402989	-0.817554	SLC22A20P	9.905781747	5.808785734	0.586403565	-0.770034
RAB3C	6.603854498	0	0	-12.13092	ABCA5	570.920655	1006.722495	0.567108273	-0.818304	PLCG1-AS1	9.905781747	5.808785734	0.586403565	-0.770034
TFF2	6.603854498	0	0	-12.13092	UPF1	1233.122229	2174.565035	0.567066153	-0.818411	ZNF691-DT	9.905781747	5.808785734	0.586403565	-0.770034
SYNPR	6.603854498	0	0	-12.13092	TPST2	143.5599903	253.3473828	0.566652747	-0.819463	ALG3P1	9.905781747	5.808785734	0.586403565	-0.770034
DCLK3	6.603854498	0	0	-12.13092	EFNB2	180.0723577	317.7954012	0.566629841	-0.819522	ENSG000002	9.905781747	5.808785734	0.586403565	-0.770034
VASN	6.603854498	0	0	-12.13092	PLEKHD1	18.25618373	32.22400921	0.5665398	-0.819751	RILPL1	297.1734524	174.263572	0.586403565	-0.770034
TM4SF20	6.603854498	0	0	-12.13092	ZNF362	518.6415834	915.6063307	0.566446043	-0.81999	CD33	29.71734524	17.4263572	0.586403565	-0.770034
LGALS9B	6.603854498	0	0	-12.13092	VASP	335.2499195	592.2550659	0.566056652	-0.820982	CYB561D2	29.71734524	17.4263572	0.586403565	-0.770034
DELEC1	6.603854498	0	0	-12.13092	FAM117B	615.7312878	1088.949277	0.565436151	-0.822564	ARSI	29.71734524	17.4263572	0.586403565	-0.770034
IQCF1	6.603854498	0	0	-12.13092	IRS4	43.98080627	77.7820912	0.565436151	-0.822564	ENSG000002	29.71734524	17.4263572	0.586403565	-0.770034
KCNE5	6.603854498	0	0	-12.13092	ADAM20	139.4108576	246.6803464	0.56514781	-0.8233	OGDH	1876.59532	1100.349983	0.586354432	-0.770155
FUT2	6.603854498	0	0	-12.13092	MAGED2	1145.160616	2026.779062	0.565015022	-0.823639	FNDC3A	2043.892967	1198.269514	0.586268231	-0.770367
OR52N5	6.603854498	0	0	-12.13092	C1orf174	239.8198681	424.4679834	0.564989298	-0.823705	PGPEP1	291.6702403	170.9442659	0.586087445	-0.770812
ENPP7	6.603854498	0	0	-12.13092	ZNF433	288.7796336	511.1394565	0.564972299	-0.823748	KIAA1671	1319.670257	773.3983291	0.586054224	-0.770894

OR10G7	6.603854498	0	0	-12.13092	FIS1	242.3093477	428.9126743	0.564938651	-0.823834	UBE2H	661.4860922	387.5289911	0.585846015	-0.771407
SOX1	6.603854498	0	0	-12.13092	YTHDC1	102.8984901	182.232328	0.564655521	-0.824557	PGGHG	133.1777324	78.00369414	0.585711235	-0.771739
PCP4	6.603854498	0	0	-12.13092	EFCAB8	25.72462253	45.55808199	0.564655521	-0.824557	BOD1L1	5040.942267	2950.863153	0.58537928	-0.772556
NPY2R	6.603854498	0	0	-12.13092	WBP2	959.2794726	1698.983106	0.564619783	-0.824648	TRAK1	669.1905891	391.6781237	0.585301303	-0.772749
NUPR2	6.603854498	0	0	-12.13092	ANAPC11	156.8372148	277.7931829	0.564582663	-0.824743	PARP9	1736.813733	1016.537503	0.58528873	-0.77278
NCCRP1	6.603854498	0	0	-12.13092	TLN1	4750.756904	8416.022268	0.564489583	-0.824981	TENT2	903.6274238	528.5995018	0.584975055	-0.773553
KCNMB2	6.603854498	0	0	-12.13092	ALDH3B1	28.21410213	50.00277291	0.56425075	-0.825592	RPS8	1350.488245	789.9948598	0.584969816	-0.773566
LINC00862	6.603854498	0	0	-12.13092	GPR158	28.21410213	50.00277291	0.56425075	-0.825592	GDF15	319.1863007	186.71097	0.584959222	-0.773592
LIPK	6.603854498	0	0	-12.13092	YJU2	120.3248473	213.3451644	0.563991444	-0.826255	TAB1	323.5888704	189.2004496	0.584693934	-0.774246
LINC01123	6.603854498	0	0	-12.13092	ZNF500	153.5179087	272.2373192	0.563912064	-0.826458	NAA60	1021.396162	596.6452775	0.584146778	-0.775597
MIR1915HG	6.603854498	0	0	-12.13092	PSTPIP2	33.19306133	58.89215477	0.563624501	-0.827194	USP15	1138.064258	664.6910532	0.584054062	-0.775826
MT1A	6.603854498	0	0	-12.13092	SLC50A1	244.7988273	434.468538	0.563444314	-0.827655	CLIC6	68.23982981	39.8316736	0.583701245	-0.776698
HCP5	6.603854498	0	0	-12.13092	FBXL15	35.68254093	63.33684569	0.563377297	-0.827827	ADM2	34.11991491	19.9158368	0.583701245	-0.776698
TRGV8	6.603854498	0	0	-12.13092	ZMIZ1	2521.013008	4476.914935	0.563113895	-0.828501	RSPH10B	34.11991491	19.9158368	0.583701245	-0.776698
TRGV4	6.603854498	0	0	-12.13092	MED12	1795.744618	3190.176912	0.56289813	-0.829054	ARFIP2	672.4925164	392.5079503	0.58366144	-0.776796
TRAV8-6	6.603854498	0	0	-12.13092	ZNF777	213.2654191	378.9099014	0.562839393	-0.829205	ELAPOR2	291.6702403	170.1144393	0.58324236	-0.777833
TRAJ45	6.603854498	0	0	-12.13092	MAP1B	7157.25385	12722.92777	0.562547707	-0.829953	OCEL1	140.8822293	82.1528268	0.583131224	-0.778108
TRAJ26	6.603854498	0	0	-12.13092	ITFG2	199.9881945	355.5752741	0.562435605	-0.83024	VPS41	1214.008585	707.842033	0.583061802	-0.778279
LPAL2	6.603854498	0	0	-12.13092	HEXA	417.4027463	742.2633846	0.562337783	-0.830491	IQSEC1	2523.773061	1471.282444	0.582969391	-0.778508
HNRNPCP6	6.603854498	0	0	-12.13092	SMURF1	318.6533888	566.698093	0.562298326	-0.830592	HSPB1	2596.41546	1513.603597	0.582958937	-0.778534
TTC41P	6.603854498	0	0	-12.13092	ZNF668	161.816174	287.7937374	0.562264403	-0.830679	CNNM2	310.3811614	180.9021843	0.582838802	-0.778831
GOLGA2P8	6.603854498	0	0	-12.13092	SPACA6	58.08785734	103.339064	0.562109381	-0.831077	NAGLU	193.7130653	112.8564085	0.58259575	-0.779433
CPEB1	6.603854498	0	0	-12.13092	ASB6	174.263572	310.0171921	0.562109381	-0.831077	RAB40B	121.0706658	70.53525534	0.58259575	-0.779433
DEFB113	6.603854498	0	0	-12.13092	TRANK1	267.2041437	475.5819291	0.561846713	-0.831752	TXNDC5	96.85653263	56.42820427	0.58259575	-0.779433
GPC1-AS1	6.603854498	0	0	-12.13092	KDELR1	1050.560391	1870.103707	0.561765846	-0.831959	TFAP2E	24.21413316	14.10705107	0.58259575	-0.779433
YAP1P1	6.603854498	0	0	-12.13092	C3orf52	112.8564085	201.1222644	0.561133343	-0.833584	DMTF1	1320.7709	769.2491964	0.582424398	-0.779857
MAGEA3	6.603854498	0	0	-12.13092	EPS15L1	599.1347571	1067.836995	0.561073235	-0.833739	CAMK1	111.164884	64.7264696	0.58225644	-0.780273
LINC03007	6.603854498	0	0	-12.13092	FBN1	1859.641261	3319.072949	0.560289361	-0.835756	SEC23IP	2138.548215	1244.7398	0.582048977	-0.780788
RAET1E-AS1	6.603854498	0	0	-12.13092	KLHDC8A	12.447398	22.22345463	0.560101848	-0.836239	PTER	226.7323378	131.9424188	0.581930307	-0.781082
LINC02593	6.603854498	0	0	-12.13092	MKRN7P	12.447398	22.22345463	0.560101848	-0.836239	TC2N	467.7730269	272.1831029	0.581870025	-0.781231
PDGFA-DT	6.603854498	0	0	-12.13092	KDELR3	42.3211532	75.55974574	0.560101848	-0.836239	PPFIA1	101.2591023	58.91768387	0.581850743	-0.781279
ATP5PBP1	6.603854498	0	0	-12.13092	TMEM236	37.342194	66.67036389	0.560101848	-0.836239	ABCD1	139.7815869	81.32300027	0.581786214	-0.781439
PLCB1-IT1	6.603854498	0	0	-12.13092	GRIK5	34.8527144	62.22567296	0.560101848	-0.836239	BAIAP3	318.0856583	185.0513169	0.581765673	-0.78149
ENSG000002	6.603854498	0	0	-12.13092	GPR63	34.8527144	62.22567296	0.560101848	-0.836239	CLIP1	3546.269865	2062.948762	0.581723569	-0.781594
AP4B1-AS1	6.603854498	0	0	-12.13092	ENSG000002	17.4263572	31.11283648	0.560101848	-0.836239	ENSG000002	38.52248457	22.4053164	0.581616597	-0.78186
LINC02519	6.603854498	0	0	-12.13092	LTK	9.9579184	17.7787637	0.560101848	-0.836239	SERINC3	2325.657426	1352.617249	0.581606403	-0.781885
ADAM1B	6.603854498	0	0	-12.13092	CST7	9.9579184	17.7787637	0.560101848	-0.836239	CUX1	1384.60816	804.9317374	0.581342622	-0.782539
LINC02876	6.603854498	0	0	-12.13092	HSPB7	9.9579184	17.7787637	0.560101848	-0.836239	RFTN2	144.1841565	83.81247987	0.581287722	-0.782676
RPS3AP37	6.603854498	0	0	-12.13092	COLEC10	9.9579184	17.7787637	0.560101848	-0.836239	SLC37A3	369.8158519	214.9250721	0.581167819	-0.782973
WAPL-DT	6.603854498	0	0	-12.13092	STX5-DT	9.9579184	17.7787637	0.560101848	-0.836239	HEXD	201.4175622	117.0055412	0.580910323	-0.783613
ENSG000002	6.603854498	0	0	-12.13092	TAGAP-AS1	9.9579184	17.7787637	0.560101848	-0.836239	ZNF592	1332.877966	774.2281556	0.580869498	-0.783714
SNHG26	6.603854498	0	0	-12.13092	TKTL1	4.9789592	8.889381852	0.560101848	-0.836239	SNX19	877.2120058	509.5134915	0.580832784	-0.783805
ENSG000002	6.603854498	0	0	-12.13092	CXCL9	4.9789592	8.889381852	0.560101848	-0.836239	POLR2L	608.6552562	353.5061032	0.580798571	-0.78389
KCNQ5-AS1	6.603854498	0	0	-12.13092	FGF17	4.9789592	8.889381852	0.560101848	-0.836239	KLF9	698.9079343	405.7851748	0.580598896	-0.784386
MTND2P2	6.603854498	0	0	-12.13092	AIRE	4.9789592	8.889381852	0.560101848	-0.836239	CD34	320.2869431	185.8811435	0.580358168	-0.784985
TMEM254-A	6.603854498	0	0	-12.13092	ADAD1	4.9789592	8.889381852	0.560101848	-0.836239	KLHL21	171.7002169	99.579184	0.57995957	-0.785976
RNASEH1P2	6.603854498	0	0	-12.13092	LVRN	4.9789592	8.889381852	0.560101848	-0.836239	RGSL1	14.30835141	8.298265334	0.57995957	-0.785976
ENSG000002	6.603854498	0	0	-12.13092	CFAP73	4.9789592	8.889381852	0.560101848	-0.836239	DOCK8-AS1	14.30835141	8.298265334	0.57995957	-0.785976
ENSG000002	6.603854498	0	0	-12.13092	GRK6P1	4.9789592	8.889381852	0.560101848	-0.836239	CLCN1	14.30835141	8.298265334	0.57995957	-0.785976
DIRC3-AS1	6.603854498	0	0	-12.13092	RPL32P16	4.9789592	8.889381852	0.560101848	-0.836239	ANP32C	14.30835141	8.298265334	0.57995957	-0.785976
ENSG000002	6.603854498	0	0	-12.13092	FSIP2-AS2	4.9789592	8.889381852	0.560101848	-0.836239	IMP3	219.0278408	126.9634596	0.579668133	-0.786701
SHROOM3-A	6.603854498	0	0	-12.13092	RPL29P14	4.9789592	8.889381852	0.560101848	-0.836239	TTC13	909.1306359	526.9398487	0.579608505	-0.786849
CDCA4P4	6.603854498	0	0	-12.13092	ANXA8	4.9789592	8.889381852	0.560101848	-0.836239	NPDC1	161.7944352	93.77039827	0.57956504	-0.786958
KBTBD13	6.603854498	0	0	-12.13092	ENSG000002	4.9789592	8.889381852	0.560101848	-0.836239	VWA8	1197.498949	693.7349819	0.579319909	-0.787568
SUCLG2P2	6.603854498	0	0	-12.13092	ENSG000002	4.9789592	8.889381852	0.560101848	-0.836239	CALU	1952.539647	1130.223738	0.578848035	-0.788743
VLDLR-AS1	6.603854498	0	0	-12.13092	HERC2P2	4.9789592	8.889381852	0.560101848	-0.836239	FBXL5	1491.370474	863.0195947	0.578675527	-0.789173
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	4.9789592	8.889381852	0.560101848	-0.836239	WDR86	47.3276239	27.3842756	0.578610827	-0.789335
MKLN1-AS	6.603854498	0	0	-12.13092	LRP6	2.4894796	4.444690926	0.560101848	-0.836239	ZNF225	321.3875856	185.8811435	0.57837064	-0.789934
ENSG000002	6.603854498	0	0	-12.13092	WNT8B	2.4894796	4.444690926	0.560101848	-0.836239	PHAF1	340.0985066	196.6688884	0.578270367	-0.790184
FOXD2-AS1	6.603854498	0	0	-12.13092	SIRPG	2.4894796	4.444690926	0.560101848	-0.836239	SF3A1	2629.434733	1520.242209	0.578163128	-0.790451
KLF7-IT1	6.603854498	0	0	-12.13092	CHKB	2.4894796	4.444690926	0.560101848	-0.836239	VIM	3704.762373	2141.782283	0.578115967	-0.790569
ENSG000002	6.603854498	0	0	-12.13092	HAS1	2.4894796	4.444690926	0.560101848	-0.836239	TERF2IP	655.9828801	379.2307257	0.578110706	-0.790582
WWTR1-AS1	6.603854498	0	0	-12.13092	UCP1	2.4894796	4.444690926	0.560101848	-0.836239	TRAK2	1791.845854	1035.623514	0.577964623	-0.790947
ENSG000002	6.603854498	0	0	-12.13092	AANAT	2.4894796	4.444690926	0.560101848	-0.836239	DENND2C	206.9207743	119.4950208	0.577491657	-0.792128
ANOS2P	6.603854498	0	0	-12.13092	OR1J1	2.4894796	4.444690926	0.560101848	-0.836239	STARD8	122.1713082	70.53525534	0.57734714	-0.792489
LINC00996	6.603854498	0	0	-12.13092	FAM86C2P	2.4894796	4.444690926	0.560101848	-0.836239	TMEM134	122.1713082	70.53525534	0.57734714	-0.792489
IGKV2D-28	6.603854498	0	0	-12.13092	PSCA	2.4894796	4.444690926	0.560101848	-0.836239	TNRC6B	3400.985066	1963.369578	0.577294384	-0.792621
RN7SL832P	6.603854498	0	0	-12.13092	GTSF1	2.4894796	4.444690926	0.560101848	-0.836239	ZNF736	361.0107125	208.2864599	0.576953682	-0.793473
RN7SL81P	6.603854498	0	0	-12.13092	PTCRA	2.4894796	4.444690926	0.560101848	-0.836239	SESN1	487.5845904	281.3111948	0.576948493	-0.793486
H2AZ1-DT	6.603854498	0	0	-12.13092	AGR3	2.4894796	4.444690926	0.560101848	-0.836239	ATF1	271.8586768	156.8372148	0.576907151	-0.793589
BACH1-IT1	6.603854498	0	0	-12.13092	RAG2	2.4894796	4.444690926	0.560101848	-0.836239	JAG1	3046.578208	1757.572598	0.576900535	-0.793605
NPHP3-AS1	6.603854498	0	0	-12.13092	NUDT4B	2.4894796	4.444690926	0.560101848	-0.836239	SCYL1	909.1306359	524.4503691	0.576870197	-0.793681
ENSG000002	6.603854498	0	0	-12.13092	TRIML2	2.4894796	4.444690926	0.560101848	-0.836239	ZNF362	899.2248541	518.6415834	0.576765178	-0.793944
PURPL	6.603854498	0	0	-12.13092	EPGN	2.4894796	4.444690926	0.560101848	-0.836239	WASH7P	18.71092108	10.78774493	0.576548043	-0.794487
LINC02125	6.603854498	0	0	-12.13092	CCIN	2.4894796	4.444690926	0.560101848	-0.836239	TMEM141	18.71092108	10.78774493	0.576548043	-0.794487
ANKRD20A1	6.603854498	0	0	-12.13092	OR10H1	2.4894796	4.444690926	0.560101848	-0.836239	PEAK1	3622.214192	2087.843558	0.576399806	-0.794858
RNU6-118P	6.603854498	0	0	-12.13092	KRTAP10-12	2.4894796	4.444690926	0.560101848	-0.836239	NSUN4	414.9421909	238.9900416	0.575959849	-0.79596
PINX1	6.603854498	0	0	-12.13092	PNLIPRP3	2.4894796	4.444690926	0.560101848	-0.836239	ENSG000001	121.0706658	69.7054288	0.575741682	-0.796506
ENSG000002	6.603854498	0	0	-12.13092	FOXO6	2.4894796	4.444690926	0.560101848	-0.836239	GGT5	223.4304105	128.6231127	0.575674155	-0.796676
INMT-MIND	6.603854498	0	0	-12.13092	IGLV2-23	2.4894796	4.444690926	0.560101848	-0.836239	ATP2B1	2842.959361	1636.417924	0.575603699	-0.796852
ENSG000002	6.603854498	0	0	-12.13092	CBX1P2	2.4894796	4.444690926	0.560101848	-0.836239	COL19A1	41.82441182	24.06496947	0.575380942	-0.797411
DNAAF4	6.603854498	0	0	-12.13092	MESTP4	2.4894796	4.444690926	0.560101848	-0.836239	IRAK2	88.0513933	50.61941854	0.574884924	-0.798655
KRT7-AS	6.603854498	0	0	-12.13092	LINC02897	2.4894796	4.444690926	0.560101848	-0.836239	SENP8	88.0513933	50.61941854	0.574884924	-0.798655
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	SNX18	392.9293426	225.7128171	0.574436146	-0.799782
ENSG000002	6.603854498	0	0	-12.13092	PSPC1P1	2.4894796	4.444690926	0.560101848	-0.836239	DNAJB5	300.4753796	172.6039189	0.574436146	-0.799782
CXADRP2	6.603854498	0	0	-12.13092	RPL35AP21	2.4894796	4.444690926	0.560101848	-0.836239	MTTP	23.11349074	13.27722453	0.574436146	-0.799782
FPGT-TNNI3	6.603854498	0	0	-12.13092	PDE11A-AS	2.4894796	4.444690926	0.560101848	-0.836239	BNIPL	23.11349074	13.27722453	0.574436146	-0.799782
BUB1B-PAK	6.603854498	0	0	-12.13092	AURKAP2	2.4894796	4.444690926	0.560101848	-0.836239	ALOXE3	23.11349074	13.27722453	0.574436146	-0.799782
ENSG000002	6.603854498	0	0	-12.13092	PRSS56	2.4894796	4.444690926	0.560101848	-0.836239	C2orf49	346.7023611	199.158368	0.574436146	-0.799782
JDP2-AS1	6.603854498	0	0	-12.13092	KRTAP10-5	2.4894796	4.444690926	0.560101848	-0.836239	B4GAT1	170.5995745	97.91953094	0.573972891	-0.800945
ENSG000002	6.603854498	0	0	-12.13092	ABCF2P1	2.4894796	4.444690926	0.560101848	-0.836239	TPRN	299.3747372	171.7740924	0.573776178	-0.80144
ENSG000002	6.603854498	0	0	-12.13092	INHCAP	2.4894796	4.444690926	0.560101848	-0.836239	RRP7BP	50.62955115	29.04392867	0.573655662	-0.801743
ENSG000002	6.603854498	0	0	-12.13092	ZNF702P	2.4894796	4.444690926	0.560101848	-0.836239	ZNF827	1858.985041	1066.327095	0.573607141	-0.801865
HEXA-AS1	6.603854498	0	0	-12.13092	OR56A7P	2.4894796	4.444690926	0.560101848	-0.836239	PARP6	671.3918739	385.0395115	0.573494447	-0.802149
ENSG000002	6.603854498	0	0	-12.13092	NLRP9P1	2.4894796	4.444690926	0.560101848	-0.836239	NCKAP5L	344.5010763	197.4987149	0.573289109	-0.802665
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	ITFG2	348.903646	199.9881945	0.573190326	-0.802914
ENSG000002	6.603854498	0	0	-12.13092	LINC02292	2.4894796	4.444690926	0.560101848	-0.836239	ASMTL	55.03212081	31.53340827	0.573000055	-0.803393
MANEA-DT	6.603854498	0	0	-12.13092	CAP2P1	2.4894796	4.444690926	0.560101848	-0.836239	IGDCC4	27.51606041	15.76670413	0.573000055	-0.803393
MAFTRR	6.603854498	0	0	-12.13092	VPS35P1	2.4894796	4.444690926	0.560101848	-0.836239	WDR37	444.6595362	254.7567457	0.572925407	-0.803581
ENSG000002	6.603854498	0	0	-12.13092	UXT-AS1	2.4894796	4.444690926	0.560101848	-0.836239	EIF3D	1755.524654	1005.749758	0.572905516	-0.803631
ENSG000002	6.603854498	0	0	-12.13092	SRXN1	2.4894796	4.444690926	0.560101848	-0.836239	ARRDC1	182.7066411	104.5581432	0.572273359	-0.805224

ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	DGKD	744.0342734	425.7010116	0.572152422	-0.805529
ENSG000002	6.603854498	0	0	-12.13092	AFAP1-AS1	2.4894796	4.444690926	0.560101848	-0.836239	LDAF1	95.75589022	54.7685512	0.571960128	-0.806014
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	ACCS	159.5931504	91.28091867	0.571960128	-0.806014
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	DGCR2	961.9614718	550.1749916	0.571930382	-0.806089
NARF-AS2	6.603854498	0	0	-12.13092	OR1B1	2.4894796	4.444690926	0.560101848	-0.836239	SRP19	68.23982981	39.00184707	0.571540802	-0.807072
RN7SL648P	6.603854498	0	0	-12.13092	LINC02204	2.4894796	4.444690926	0.560101848	-0.836239	RELCH	1222.813725	698.7139411	0.571398511	-0.807431
ENSG000002	6.603854498	0	0	-12.13092	ACTBP4	2.4894796	4.444690926	0.560101848	-0.836239	RAB19	72.64239948	41.49132667	0.571172304	-0.808002
DSG1-AS1	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	OPN3	36.32119974	20.74566333	0.571172304	-0.808002
ENSG000002	6.603854498	0	0	-12.13092	ENSG000002	2.4894796	4.444690926	0.560101848	-0.836239	CCDC122	308.1798766	175.9232251	0.57084592	-0.808827
ENSG000002	6.603854498	0	0	-12.13092	ZNF575	29.8737552	53.33629111	0.560101848	-0.836239	PRRC1	1485.867262	848.0827171	0.570766137	-0.809028
LINC01235	6.603854498	0	0	-12.13092	ZMYND12	14.9368776	26.66814555	0.560101848	-0.836239	PCDHGA5	122.1713082	69.7054288	0.57055482	-0.809563
ENSG000002	6.603854498	0	0	-12.13092	MBLAC1	14.9368776	26.66814555	0.560101848	-0.836239	TAS2R3	257.5503254	146.8792964	0.570293577	-0.810223
ENSG000002	6.603854498	0	0	-12.13092	PABPC1P4	14.9368776	26.66814555	0.560101848	-0.836239	P4HTM	302.6766645	172.6039189	0.570258428	-0.810312
ENSG000002	6.603854498	0	0	-12.13092	NMNAT3	7.4684388	13.33407278	0.560101848	-0.836239	F13A1	1714.800885	977.5356563	0.570057821	-0.81082
ENSG000002	6.603854498	0	0	-12.13092	GRM5	7.4684388	13.33407278	0.560101848	-0.836239	PDK2	419.3447606	238.9900416	0.569913026	-0.811186
NFYC-AS1	6.603854498	0	0	-12.13092	XPC-AS1	7.4684388	13.33407278	0.560101848	-0.836239	PIP5K1C	752.8394127	429.0203178	0.56986963	-0.811296
ENSG000002	6.603854498	0	0	-12.13092	FAM218A	32.3632348	57.78098203	0.560101848	-0.836239	PBLD	94.6552478	53.93872467	0.569843996	-0.811361
ENSG000002	6.603854498	0	0	-12.13092	GTF3C1	3081.975745	5504.749712	0.559875727	-0.836821	SERPINB6	1708.19703	973.3865236	0.569832699	-0.81139
H3C8	6.603854498	0	0	-12.13092	CGRRF1	131.1125923	234.4574463	0.559217011	-0.83852	LMBR1L	193.7130653	110.3669289	0.569744373	-0.811613
SNORD91B	6.603854498	0	0	-12.13092	PGAP2	116.1757147	207.7893008	0.559103449	-0.838813	PISD	247.6445437	141.0705107	0.569649178	-0.811854
ENSG000002	6.603854498	0	0	-12.13092	CYB5R1	227.3724701	406.6892197	0.559081626	-0.838869	AKR1C1	49.52890873	28.21410213	0.569649178	-0.811854
ENSG000002	6.603854498	0	0	-12.13092	TBC1D2B	452.2554607	808.9337485	0.55907602	-0.838884	RCAN3	566.8308444	322.8025215	0.569486514	-0.812266
LINC02809	6.603854498	0	0	-12.13092	LRGUK	101.2388371	181.1211552	0.558956445	-0.839192	NOS1AP	161.7944352	92.1107452	0.569307251	-0.812721
ENSG000002	6.603854498	0	0	-12.13092	RCE1	98.74935747	176.6764643	0.55892763	-0.839267	DPAGT1	300.4753796	170.9442659	0.568912721	-0.813721
ENSG000002	6.603854498	0	0	-12.13092	ESRP2	377.5710727	675.5930207	0.558873554	-0.839406	CUL7	551.4218506	313.6744296	0.568846572	-0.813889
TRBV7-9	6.603854498	0	0	-12.13092	COG4	310.3551235	555.5863657	0.558608243	-0.840091	SNX13	1625.648849	924.4267582	0.568650947	-0.814385
ENSG000002	6.603854498	0	0	-12.13092	TDRP	152.6880821	273.3484919	0.558583957	-0.840154	EXOC6B	868.4068665	493.7467874	0.568566195	-0.8146
ENSG000002	6.603854498	0	0	-12.13092	CHMP6	73.85456147	132.229555	0.558532935	-0.840286	MSTO1	71.54175706	40.66150013	0.568360379	-0.815122
ENSG000002	6.603854498	0	0	-12.13092	ZBTB3	130.2827657	233.3462736	0.558323747	-0.840826	SAT2	147.4860838	83.81247987	0.568273818	-0.815342
ENSG000002	6.603854498	0	0	-12.13092	NDUFB2	370.9324604	664.4812934	0.558228597	-0.841072	TMEM254	227.8329802	129.4529392	0.568192274	-0.815549
ENSG000002	6.603854498	0	0	-12.13092	KLHL5	316.1639092	566.698093	0.55790537	-0.841908	BCL2L1	1079.73021	613.2418082	0.567958368	-0.816143
ENSG000002	6.603854498	0	0	-12.13092	RGCC	48.95976547	87.78264578	0.557738549	-0.842339	SLC12A9	169.4989321	96.25987787	0.567908462	-0.81627
ENSG000002	6.603854498	0	0	-12.13092	LSM10	190.8601027	342.2412013	0.557677164	-0.842498	SLC26A5	84.74946605	48.12993894	0.567908462	-0.81627
ENSG000002	6.603854498	0	0	-12.13092	SH3BP5L	185.8811435	333.3518194	0.557612506	-0.842665	RTL10	195.9143501	111.1967555	0.567578411	-0.817108
ENSG000002	6.603854498	0	0	-12.13092	BTG1	826.5072272	1482.304424	0.557582649	-0.842742	JMY	862.9036544	489.5976547	0.567383916	-0.817603
ENSG000002	6.603854498	0	0	-12.13092	SLC20A2	512.0029711	918.9398489	0.557167013	-0.843818	RHOC	449.0621058	254.7567457	0.567308491	-0.817795
ENSG000002	6.603854498	0	0	-12.13092	FBRS	707.0122064	1268.959259	0.557159106	-0.843839	HYDIN	235.5374771	133.6020719	0.56722214	-0.818014
ENSG000002	6.603854498	0	0	-12.13092	DOCK1	3158.319786	5671.425621	0.556882872	-0.844554	KRBA1	137.580302	78.00369414	0.566968476	-0.81866
RPS4Y2	6.603854498	0	0	-12.13092	CCDC28A	177.5828781	318.9065739	0.556849224	-0.844641	NIPAL3	576.7366261	326.9516541	0.566899412	-0.818835
LINC01144	6.603854498	0	0	-12.13092	PCIF1	459.7238995	825.6013395	0.556835215	-0.844678	WWP1	2833.05358	1605.714342	0.566778671	-0.819143
ENSG000002	6.603854498	0	0	-12.13092	ZNF799	172.6039189	310.0171921	0.556755959	-0.844883	IFIT2	159.5931504	90.45109214	0.56676049	-0.819189
ENSG000002	6.603854498	0	0	-12.13092	MAPKAPK5	507.8538384	912.2728125	0.556690752	-0.845052	GPD1L	309.280519	175.0933985	0.566131353	-0.820791
ENSG000002	6.603854498	0	0	-12.13092	ZNF324	233.1812559	418.9121198	0.556635258	-0.845196	LMAN1	3015.760221	1706.953179	0.566010907	-0.821098
ENSG000002	6.603854498	0	0	-12.13092	TLR4	259.7357049	466.6925472	0.556545646	-0.845428	CNOT2	1797.349066	1016.537503	0.565576005	-0.822207
ENSG000002	6.603854498	0	0	-12.13092	NCKAP1L	128.6231127	231.1239281	0.556511451	-0.845517	UPP1	48.42826632	27.3842756	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	ZMPSTE24	1015.707677	1825.656798	0.556351927	-0.84593	MYH7B	39.62312699	22.4053164	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	GABPB2	234.8409089	422.2456379	0.556171308	-0.846399	TOB1	3790.612482	2143.441936	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	STUB1	486.2783486	874.4929396	0.556068925	-0.846664	PTCHD4	44.02569665	24.894796	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	PIGL	84.6423064	152.2306642	0.556013513	-0.846808	ENSG000002	22.01284833	12.447398	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	SPATA2L	55.59837774	100.0055458	0.555952945	-0.846965	PPP1R3A	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	PARP14	1880.386925	3382.409794	0.555931138	-0.847022	IL34	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	SELENOT	710.3315126	1277.848641	0.55588079	-0.847153	AMY1B	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	KNDC1	130.2827657	234.4574463	0.555677663	-0.84768	KCNE1	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	PINLYP	24.06496947	43.33573653	0.555314652	-0.848623	ENSG000002	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	TPD52L2	228.2022967	411.1339106	0.555055885	-0.849295	ENSG000002	13.207709	7.4684388	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	NELL2	650.5840022	1172.287232	0.554969793	-0.849519	PRKRIP1	136.4796596	77.1738676	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	PI4KB	871.31786	1570.08707	0.554948752	-0.849574	TSPO	52.83083598	29.8737552	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	RBM45	131.9424188	237.7909645	0.554867251	-0.849785	RAP1BL	35.22055732	19.9158368	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	TPM4	407.4448279	734.4851755	0.554735264	-0.850129	LHX6	17.61027866	9.9579184	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	LGALS3	222.3935109	401.133356	0.554412909	-0.850967	FBXO2	17.61027866	9.9579184	0.565460581	-0.822502
ENSG000002	6.603854498	0	0	-12.13092	RGS19	57.2580308	103.339064	0.554079247	-0.851836	IL12A	17.61027866	9.9579184	0.565460581	-0.822502
C22orf31	5.503212081	0	0	-12.13092	PHRF1	19.08601027	34.44635467	0.554079247	-0.851836	TKTL1	8.80513933	4.9789592	0.565460581	-0.822502
OVOL3	5.503212081	0	0	-12.13092	SLC25A21-A	19.08601027	34.44635467	0.554079247	-0.851836	LHX5	8.80513933	4.9789592	0.565460581	-0.822502
RASA4	5.503212081	0	0	-12.13092	LYPD3	114.5160616	206.678128	0.554079247	-0.851836	NXPE1	8.80513933	4.9789592	0.565460581	-0.822502
GNRHR	5.503212081	0	0	-12.13092	NOS2	112.026582	202.2334371	0.553946882	-0.85218	EPHX3	8.80513933	4.9789592	0.565460581	-0.822502
NR2E1	5.503212081	0	0	-12.13092	CNNM3	445.6168484	804.4890576	0.553912877	-0.852269	GCNT7	8.80513933	4.9789592	0.565460581	-0.822502
CCN6	5.503212081	0	0	-12.13092	CDC42BPB	3504.35745	6334.795742	0.553191862	-0.854148	CHRNA10	8.80513933	4.9789592	0.565460581	-0.822502
INO80B	5.503212081	0	0	-12.13092	CNPY2	16.59653067	30.00166375	0.55318701	-0.854161	PDE6A	8.80513933	4.9789592	0.565460581	-0.822502
PADI2	5.503212081	0	0	-12.13092	AVEN	66.38612267	120.006655	0.55318701	-0.854161	AMN	8.80513933	4.9789592	0.565460581	-0.822502
IFNA8	5.503212081	0	0	-12.13092	HACL1	587.5171856	1062.281131	0.553071281	-0.854463	MAJIN	8.80513933	4.9789592	0.565460581	-0.822502
SOHLH2	5.503212081	0	0	-12.13092	SERP1	485.448522	877.8264578	0.553011951	-0.854617	KCNJ5-AS1	8.80513933	4.9789592	0.565460581	-0.822502
ADORA2A	5.503212081	0	0	-12.13092	FLOT2	740.2052678	1338.963141	0.552819749	-0.855119	SAGE1	8.80513933	4.9789592	0.565460581	-0.822502
ZNF20	5.503212081	0	0	-12.13092	TFEC	30.70358173	55.55863657	0.552633823	-0.855604	OR7A5	8.80513933	4.9789592	0.565460581	-0.822502
RXFP2	5.503212081	0	0	-12.13092	ZC3H4	884.5950846	1601.199906	0.552457617	-0.856064	ATP6V0E2-A	8.80513933	4.9789592	0.565460581	-0.822502
CLDN10	5.503212081	0	0	-12.13092	SPAG17	42.3211532	76.67091847	0.55198443	-0.857301	HAUS7	8.80513933	4.9789592	0.565460581	-0.822502
ACRV1	5.503212081	0	0	-12.13092	PLAC8	28.21410213	51.11394565	0.55198443	-0.857301	HSPA5P1	8.80513933	4.9789592	0.565460581	-0.822502
ZNF670-ZNF	5.503212081	0	0	-12.13092	TMEM71	14.10705107	25.55697282	0.55198443	-0.857301	ENSG000002	8.80513933	4.9789592	0.565460581	-0.822502
MGARP	5.503212081	0	0	-12.13092	PNLIP	14.10705107	25.55697282	0.55198443	-0.857301	TFAP2A-AS1	8.80513933	4.9789592	0.565460581	-0.822502
BCL2L10	5.503212081	0	0	-12.13092	SCHLAP1	14.10705107	25.55697282	0.55198443	-0.857301	LNCRNA-IU1	8.80513933	4.9789592	0.565460581	-0.822502
REM2	5.503212081	0	0	-12.13092	SLC12A8	53.93872467	97.78320037	0.551615456	-0.858265	ENSG000002	8.80513933	4.9789592	0.565460581	-0.822502
RHCG	5.503212081	0	0	-12.13092	ARHGAP1	429.0203178	777.820912	0.551566962	-0.858392	ENSG000002	8.80513933	4.9789592	0.565460581	-0.822502
PMAIP1	5.503212081	0	0	-12.13092	DENND5A	953.4706868	1728.98477	0.551462745	-0.858665	ENSG000002	8.80513933	4.9789592	0.565460581	-0.822502
S100A7	5.503212081	0	0	-12.13092	ZNF526	276.3322356	501.1389019	0.551408471	-0.858807	VN1R83P	8.80513933	4.9789592	0.565460581	-0.822502
ZNF660	5.503212081	0	0	-12.13092	RHPN1	333.5902664	605.5891386	0.550852459	-0.860262	IRF2-DT	8.80513933	4.9789592	0.565460581	-0.822502
RABGEF1	5.503212081	0	0	-12.13092	XPO6	1965.859058	3569.086813	0.550801693	-0.860395	ENSG000002	8.80513933	4.9789592	0.565460581	-0.822502
HMHB1	5.503212081	0	0	-12.13092	DPM3	97.91953094	177.787637	0.550766817	-0.860486	ACSBG1	4.402569665	2.4894796	0.565460581	-0.822502
KNCN	5.503212081	0	0	-12.13092	REPS2	829.8265334	1506.750224	0.55073928	-0.860559	C11orf21	4.402569665	2.4894796	0.565460581	-0.822502
SLC6A18	5.503212081	0	0	-12.13092	SCYL1	524.4503691	952.2750308	0.550734139	-0.860572	GJA3	4.402569665	2.4894796	0.565460581	-0.822502
AMER2	5.503212081	0	0	-12.13092	COA3	181.7320108	330.0183012	0.550672524	-0.860733	SLC17A1	4.402569665	2.4894796	0.565460581	-0.822502
OR2D2	5.503212081	0	0	-12.13092	SPATA13	60.57733694	110.0061004	0.550672524	-0.860733	KIF25	4.402569665	2.4894796	0.565460581	-0.822502
GALR1	5.503212081	0	0	-12.13092	COL6A1	2100.290956	3814.655987	0.55058463	-0.860964	TSKS	4.402569665	2.4894796	0.565460581	-0.822502
ACER1	5.503212081	0	0	-12.13092	SH3GL1	323.632348	587.8103749	0.550572705	-0.860995	GFAP	4.402569665	2.4894796	0.565460581	-0.822502
GYPA	5.503212081	0	0	-12.13092	TRABD	95.43005134	173.3429461	0.550527457	-0.861114	TRIM54	4.402569665	2.4894796	0.565460581	-0.822502
OR4C11	5.503212081	0	0	-12.13092	APOL1	69.7054288	126.6736914	0.5502755	-0.861774	C1orf94	4.402569665	2.4894796	0.565460581	-0.822502
TRAPPC3L	5.503212081	0	0	-12.13092	CYB5D2	58.08785734	105.5614095	0.5502755	-0.861774	KIRREL3	4.402569665	2.4894796	0.565460581	-0.822502
LINC02694	5.503212081	0	0	-12.13092	TTC29	11.61757147	21.1122819	0.5502755	-0.861774	HIPK4	4.402569665	2.4894796	0.565460581	-0.822502
OR4F21	5.503212081	0	0	-12.13092	CCDC160	11.61757147	21.1122819	0.5502755	-0.861774	LRRC38	4.402569665	2.4894796	0.565460581	-0.822502
NHLH2	5.503212081	0	0	-12.13092	ENSG000002	11.61757147	21.1122819	0.5502755	-0.861774	FCAMR	4.402569665	2.4894796	0.565460581	-0.822502
CCDC184	5.503212081	0	0	-12.13092	KATNIP	1266.31529	2301.238727	0.5502755	-0.861774	NEURL3	4.402569665	2.4894796	0.565460581	-0.822502
GPR150	5.503212081	0	0	-12.13092	XAB2	965.9180848	1755.652916	0.550175992	-0.862035	GJB7	4.402569665	2.4894796	0.565460581	-0.822502
C11orf42	5.503212081	0	0	-12.13092	MYLK	445.6168484	810.0449212	0.550113749	-0.862198	SLC13A4	4.402569665	2.4894796	0.565460581	-0.822502

OR56B1	5.503212081	0	0	-12.13092	MAP3K14	271.3532764	493.3606928	0.550009923	-0.86247	PHOX2A	4.402569665	2.4894796	0.565460581	-0.822502
OR8D4	5.503212081	0	0	-12.13092	SLC25A25	289.6094601	526.6958747	0.549860886	-0.862861	CDX2	4.402569665	2.4894796	0.565460581	-0.822502
OR8H3	5.503212081	0	0	-12.13092	THRA	353.5061032	643.3690115	0.54946088	-0.863911	GFI1B	4.402569665	2.4894796	0.565460581	-0.822502
OGFRP1	5.503212081	0	0	-12.13092	TMBIM6	2322.684467	4229.123416	0.549211796	-0.864565	JSRP1	4.402569665	2.4894796	0.565460581	-0.822502
ZAR1	5.503212081	0	0	-12.13092	GJC2	20.74566333	37.77987287	0.549119459	-0.864808	CA7	4.402569665	2.4894796	0.565460581	-0.822502
MFSD6L	5.503212081	0	0	-12.13092	HYDIN	133.6020719	243.3468282	0.549019163	-0.865072	HOXB9	4.402569665	2.4894796	0.565460581	-0.822502
TMCO2	5.503212081	0	0	-12.13092	DNAJB2	389.1886441	708.9282027	0.548981748	-0.86517	MUC7	4.402569665	2.4894796	0.565460581	-0.822502
ZNF734P	5.503212081	0	0	-12.13092	PIK3CD	92.1107452	167.7870824	0.548973996	-0.86519	PSAPL1	4.402569665	2.4894796	0.565460581	-0.822502
FLVCR1-DT	5.503212081	0	0	-12.13092	ABCC1	50.61941854	92.22733671	0.548854823	-0.865504	ADIG	4.402569665	2.4894796	0.565460581	-0.822502
KCNRG	5.503212081	0	0	-12.13092	IRAK2	50.61941854	92.22733671	0.548854823	-0.865504	LRRC14B	4.402569665	2.4894796	0.565460581	-0.822502
RNU6-1099P	5.503212081	0	0	-12.13092	ASIC1	29.8737552	54.44746384	0.548671198	-0.865986	PDE6G	4.402569665	2.4894796	0.565460581	-0.822502
RNU6-681P	5.503212081	0	0	-12.13092	CPEB3	149.368776	272.2373192	0.548671198	-0.865986	KLHL34	4.402569665	2.4894796	0.565460581	-0.822502
RN7SKP71	5.503212081	0	0	-12.13092	CSF1	316.9937357	577.8098203	0.548612579	-0.86614	CCIN	4.402569665	2.4894796	0.565460581	-0.822502
C1orf146	5.503212081	0	0	-12.13092	AAK1	879.6161254	1603.422251	0.548586702	-0.866208	H1-7	4.402569665	2.4894796	0.565460581	-0.822502
LINC01270	5.503212081	0	0	-12.13092	ATG7	422.3817055	770.0427029	0.54851725	-0.866391	RNFT1P3	4.402569665	2.4894796	0.565460581	-0.822502
HSPA1A	5.503212081	0	0	-12.13092	SGCE	156.0073883	284.4602192	0.548433059	-0.866613	OR7D2	4.402569665	2.4894796	0.565460581	-0.822502
IL31	5.503212081	0	0	-12.13092	ZNF691	105.3879697	192.2328825	0.54823071	-0.867145	FAM180A	4.402569665	2.4894796	0.565460581	-0.822502
CCNI2	5.503212081	0	0	-12.13092	NDOR1	180.9021843	330.0183012	0.548158037	-0.867336	H2BC26	4.402569665	2.4894796	0.565460581	-0.822502
CATSPER2P1	5.503212081	0	0	-12.13092	STXBP6	84.6423064	154.4530097	0.548013319	-0.867717	CYP2B6	4.402569665	2.4894796	0.565460581	-0.822502
CD200R1L	5.503212081	0	0	-12.13092	ABCA6	306.2059908	558.9198839	0.5478531	-0.868139	PNLIPRP3	4.402569665	2.4894796	0.565460581	-0.822502
Y_RNA.70	5.503212081	0	0	-12.13092	CPNE1	887.9143907	1621.201015	0.547689264	-0.86857	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
MT-TY	5.503212081	0	0	-12.13092	LOXL4	18.25618373	33.33518194	0.54765514	-0.86866	IGFL2	4.402569665	2.4894796	0.565460581	-0.822502
IGKV3D-11	5.503212081	0	0	-12.13092	WNT10A	9.128091867	16.66759097	0.54765514	-0.86866	MS4A13	4.402569665	2.4894796	0.565460581	-0.822502
TRAV29DV5	5.503212081	0	0	-12.13092	PGAM4	9.128091867	16.66759097	0.54765514	-0.86866	ARSH	4.402569665	2.4894796	0.565460581	-0.822502
TRAJ44	5.503212081	0	0	-12.13092	PLSCR4	173.4337455	316.6842285	0.54765514	-0.86866	KLRC2	4.402569665	2.4894796	0.565460581	-0.822502
TRAJ5	5.503212081	0	0	-12.13092	ZNF341	100.4090105	183.3435007	0.54765514	-0.86866	BHLHA9	4.402569665	2.4894796	0.565460581	-0.822502
EEF1B2P2	5.503212081	0	0	-12.13092	EIF3G	496.236267	906.7169489	0.54728906	-0.869625	RNASE13	4.402569665	2.4894796	0.565460581	-0.822502
AMZ2P1	5.503212081	0	0	-12.13092	SSBP4	184.2214904	336.6853376	0.547162201	-0.86996	TRAV6	4.402569665	2.4894796	0.565460581	-0.822502
TUBA5P	5.503212081	0	0	-12.13092	RPUSD4	95.43005134	174.4541188	0.547020913	-0.870332	TAS2R13	4.402569665	2.4894796	0.565460581	-0.822502
ESRRAP1	5.503212081	0	0	-12.13092	RPL29P4	34.02288787	62.22567296	0.546766089	-0.871004	RPL31P10	4.402569665	2.4894796	0.565460581	-0.822502
RPL21P65	5.503212081	0	0	-12.13092	PRDM10	409.9343075	750.0415937	0.546548766	-0.871578	ACSM4	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	C12orf60	24.894796	45.55808199	0.546440827	-0.871863	PLA2G12AP1	4.402569665	2.4894796	0.565460581	-0.822502
MARK2P18	5.503212081	0	0	-12.13092	FURIN	638.1366042	1167.842541	0.546423496	-0.871909	SOCS5P4	4.402569665	2.4894796	0.565460581	-0.822502
MIR1296	5.503212081	0	0	-12.13092	PAK4	469.6818179	860.0476941	0.546111362	-0.872733	PSPC1P1	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	CNN2	151.0284291	276.6820101	0.545855616	-0.873409	PNRC2P1	4.402569665	2.4894796	0.565460581	-0.822502
LINC01133	5.503212081	0	0	-12.13092	EXOSC7	151.0284291	276.6820101	0.545855616	-0.873409	SMYD3-IT1	4.402569665	2.4894796	0.565460581	-0.822502
TMCO1-AS1	5.503212081	0	0	-12.13092	VCP	2374.963538	4351.352416	0.54579894	-0.873559	LINC02884	4.402569665	2.4894796	0.565460581	-0.822502
DUXAP9	5.503212081	0	0	-12.13092	WDR18	189.2004496	346.6858922	0.545740262	-0.873714	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ZNRF2P2	5.503212081	0	0	-12.13092	TUT1	94.6002248	173.3429461	0.545740262	-0.873714	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	RABL2A	132.7722453	243.3468282	0.545609106	-0.87406	IFNA13	4.402569665	2.4894796	0.565460581	-0.822502
ANKRD49P2	5.503212081	0	0	-12.13092	AKR7A2	345.2078379	633.3684569	0.54503478	-0.87558	RPL7AP16	4.402569665	2.4894796	0.565460581	-0.822502
LINC01504	5.503212081	0	0	-12.13092	KDM6A	1638.077577	3005.722239	0.544986345	-0.875708	OBI1-AS1	4.402569665	2.4894796	0.565460581	-0.822502
SNED1-AS1	5.503212081	0	0	-12.13092	CLCF1	22.4053164	41.11339106	0.54496396	-0.875767	MYCBP2-AS	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	22.4053164	41.11339106	0.54496396	-0.875767	PRPF38AP2	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	PARP3	44.8106328	82.22678213	0.54496396	-0.875767	PRSS56	4.402569665	2.4894796	0.565460581	-0.822502
MTND6P5	5.503212081	0	0	-12.13092	GABPAP	44.8106328	82.22678213	0.54496396	-0.875767	ST13P7	4.402569665	2.4894796	0.565460581	-0.822502
KATNBL1P6	5.503212081	0	0	-12.13092	SRGAP3	716.1402983	1314.517341	0.544793344	-0.876219	RPL17P47	4.402569665	2.4894796	0.565460581	-0.822502
LNC-LBCS	5.503212081	0	0	-12.13092	PDE4A	109.5371024	201.1222644	0.544629421	-0.876653	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
LINC02575	5.503212081	0	0	-12.13092	SLC27A4	283.8006744	521.140011	0.544576637	-0.876793	LINC02405	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	29.04392867	53.33629111	0.544543463	-0.876881	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
LINC03016	5.503212081	0	0	-12.13092	INTS15	129.4529392	237.7909645	0.544398058	-0.877266	ZEB2P1	4.402569665	2.4894796	0.565460581	-0.822502
TMBIM7P	5.503212081	0	0	-12.13092	AFF3	459.7238995	844.4912759	0.544379691	-0.877315	RAD21-AS1	4.402569665	2.4894796	0.565460581	-0.822502
LINC01507	5.503212081	0	0	-12.13092	DMWD	631.4979919	1160.064332	0.544364631	-0.877355	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
KRT8P10	5.503212081	0	0	-12.13092	KATNB1	200.8180211	368.9093468	0.544356013	-0.877378	PRDM4-AS1	4.402569665	2.4894796	0.565460581	-0.822502
GS1-600G8.3	5.503212081	0	0	-12.13092	HK3	35.68254093	65.55919115	0.544279762	-0.87758	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
RPS7P3	5.503212081	0	0	-12.13092	MS4A7	107.0476228	196.6775735	0.544279762	-0.87758	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
RAP2C-AS1	5.503212081	0	0	-12.13092	MRPL4	331.9306133	610.0338296	0.544118371	-0.878008	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
OR5K1	5.503212081	0	0	-12.13092	IMP3	126.9634596	233.3462736	0.544098938	-0.878059	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
H3P31	5.503212081	0	0	-12.13092	WASHC2C	320.3130419	588.9215477	0.543897643	-0.878593	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
SCAND3P1	5.503212081	0	0	-12.13092	MOB3B	62.23699	114.4507913	0.543788202	-0.878883	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	PER2	277.1620621	510.0282837	0.543424886	-0.879847	MIR3192	4.402569665	2.4894796	0.565460581	-0.822502
LINC00327	5.503212081	0	0	-12.13092	ROBO3	33.19306133	61.11450023	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	SGSM2-AS1	19.9158368	36.66870014	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	FTCDNL1	13.27722453	24.44580009	0.543129064	-0.880633	NFE2L3P1	4.402569665	2.4894796	0.565460581	-0.822502
TRGV2	5.503212081	0	0	-12.13092	ABCB11	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
RNASEH2B-A	5.503212081	0	0	-12.13092	FAM120B	6.638612267	12.22290005	0.543129064	-0.880633	TAF9P3	4.402569665	2.4894796	0.565460581	-0.822502
MED14OS	5.503212081	0	0	-12.13092	CNN1	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	USP29	6.638612267	12.22290005	0.543129064	-0.880633	TSIX	4.402569665	2.4894796	0.565460581	-0.822502
ARNILA	5.503212081	0	0	-12.13092	VILL	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	RDH16	6.638612267	12.22290005	0.543129064	-0.880633	TRABD-AS1	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	RBM46	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
AGAP1-IT1	5.503212081	0	0	-12.13092	SLC1A7	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
G3BP1P1	5.503212081	0	0	-12.13092	ANO5	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ZNRF3-IT1	5.503212081	0	0	-12.13092	RSPH9	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	OTOL1	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
UBE2L5	5.503212081	0	0	-12.13092	CHCHD3P3	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
BCYRN1	5.503212081	0	0	-12.13092	ENSG000002	6.638612267	12.22290005	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
LINC00987	5.503212081	0	0	-12.13092	ENSG000002	6.638612267	12.22290005	0.543129064	-0.880633	DPRXP3	4.402569665	2.4894796	0.565460581	-0.822502
MTCO3P11	5.503212081	0	0	-12.13092	PDXDC2P-N	26.55444907	48.89160018	0.543129064	-0.880633	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
RPS20P22	5.503212081	0	0	-12.13092	TMEM147	136.921378	252.23621	0.542829985	-0.881428	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
SAMMSON	5.503212081	0	0	-12.13092	PPFIBP2	160.9863475	296.6831193	0.542620517	-0.881984	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
HOGA1	5.503212081	0	0	-12.13092	TMED1	204.9671537	377.7987287	0.542530025	-0.882225	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
RN7SL329P	5.503212081	0	0	-12.13092	CREB3	185.0513169	341.1300286	0.542465633	-0.882396	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	NOSIP	303.7165112	560.0310566	0.542320837	-0.882781	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
ENSG000002	5.503212081	0	0	-12.13092	MAU2	385.0395115	710.0393754	0.542279097	-0.882893	GLUD1P3.1	4.402569665	2.4894796	0.565460581	-0.822502
GMCL2	5.503212081	0	0	-12.13092	MYRF	43.98080627	81.11560939	0.542199049	-0.883106	ENSG000002	4.402569665	2.4894796	0.565460581	-0.822502
SIAH2-AS1	5.503212081	0	0	-12.13092	GMIP	217.4145517	401.133356	0.54200068	-0.883633	CD276	602.0514017	340.2288787	0.565115998	-0.823381
SCAMP1-AS	5.503212081	0	0	-12.13092	KIAA1191	489.5976547	903.3834307	0.541959967	-0.883742	TUT4	5109.182096	2886.96651	0.565054534	-0.823538
BTG1-DT	5.503212081	0	0	-12.13092	PPOX	98.74935747	182.232328	0.541887153	-0.883936	STAT5B	956.4582598	540.2170732	0.564809878	-0.824163
SLCO5A1-AS	5.503212081	0	0	-12.13092	AK5	61.40716347	113.3396186	0.541797866	-0.884173	NBPF1	227.8329802	128.6231127	0.564550016	-0.824827
DNAJC3-DT	5.503212081	0	0	-12.13092	MTX1	48.12993894	88.89381852	0.541431786	-0.885149	GRAMD2B	179.4047139	101.2388371	0.56430422	-0.825455
LINC01194	5.503212081	0	0	-12.13092	ENSG000002	24.06496947	44.44690926	0.541431786	-0.885149	TRAPPC12	350.0042884	197.4987149	0.564275129	-0.825529
LINC02198	5.503212081	0	0	-12.13092	ZC3H3	248.94796	460.0255108	0.541161206	-0.88587	ARHGAP20	166.1970049	93.77039827	0.564212323	-0.82569
ENSG000002	5.503212081	0	0	-12.13092	ABHD6	104.5581432	193.3440553	0.540787991	-0.886865	DLGAP4	1590.428292	896.212656	0.56350397	-0.827502
ENSG000002	5.503212081	0	0	-12.13092	DNAH6	638.1366042	1180.065441	0.540763743	-0.88693	SLC19A2	496.3897298	279.6515417	0.563370926	-0.827843
TRMT9B	5.503212081	0	0	-12.13092	THPO	63.06681654	116.6731368	0.540542736	-0.887519	HSD17B11	187.1092108	105.3879697	0.563243088	-0.82817
ENSG000002	5.503212081	0	0	-12.13092	IGSF3	834.8054926	1545.641269	0.540103004	-0.888694	RPL3P4	86.95075089	48.95976547	0.563074671	-0.828602
GOLGA5P1	5.503212081	0	0	-12.13092	NOL3	78.00369414	144.4524551	0.539995628	-0.88898	SEC62	1969.049283	1108.648249	0.563037329	-0.828698
WDFY3-AS1	5.503212081	0	0	-12.13092	CARD10	142.7301637	264.4591101	0.539705982	-0.889754	EXOC7	2558.993618	1440.578862	0.562947423	-0.828928
HSPD1P11	5.503212081	0	0	-12.13092	AMD1	590.0066652	1093.393968	0.539610317	-0.89001	GOLGA5	1959.143501	1102.839463	0.562919185	-0.829
CTDNEP1P2	5.503212081	0	0	-12.13092	NPRL2	136.0915515	252.23621	0.539540106	-0.890198	PCDHGB4	73.74304189	41.49132667	0.562647344	-0.829697

ENSG000002	5.503212081	0	0	-12.13092	ACOT11	136.0915515	252.23621	0.539540106	-0.890198	MYOF	4222.064309	2374.963538	0.562512403	-0.830043
ENSG000002	5.503212081	0	0	-12.13092	EPOR	473.001124	876.7152851	0.539515088	-0.890265	MLLT1	970.7666112	546.025859	0.562468726	-0.830155
LINC02235	5.503212081	0	0	-12.13092	EXOC3L1	10.78774493	20.00110917	0.539357335	-0.890687	ACRBP	69.34047223	39.00184707	0.562468726	-0.830155
TRIM77BP	5.503212081	0	0	-12.13092	INSYN2B	10.78774493	20.00110917	0.539357335	-0.890687	NNMT	138.6809445	78.00369414	0.562468726	-0.830155
ENSG000002	5.503212081	0	0	-12.13092	DGCR2	550.1749916	1020.056567	0.539357335	-0.890687	TANGO2	134.2783748	75.51421454	0.562370632	-0.830407
ENSG000002	5.503212081	0	0	-12.13092	NAA80	36.51236747	67.78153662	0.538677187	-0.892507	BET1L	129.8758051	73.02473494	0.562265888	-0.830676
MIR9-3HG	5.503212081	0	0	-12.13092	E2F4	223.2233375	414.4674288	0.53857872	-0.892771	RBM33	2393.897255	1345.978637	0.562254138	-0.830706
ENSG000002	5.503212081	0	0	-12.13092	ITGA8	87.96161254	163.3423915	0.53851062	-0.892953	WNK2	3773.002203	2121.036619	0.562161511	-0.830943
CD63-AS1	5.503212081	0	0	-12.13092	CTSA	1565.882668	2909.050211	0.538279698	-0.893572	CEP164	436.9550393	245.6286539	0.562137135	-0.831006
ENSG000002	5.503212081	0	0	-12.13092	GBF1	828.9967068	1540.085406	0.538279698	-0.893572	KIAA1217	4120.805207	2316.045855	0.562037208	-0.831262
FRMD6-AS2	5.503212081	0	0	-12.13092	HMGXB3	492.0871343	914.495158	0.538097036	-0.894062	LAMP3	544.8179961	306.2059908	0.562033547	-0.831272
HSPE1P2	5.503212081	0	0	-12.13092	ATG14	248.1181335	461.1366835	0.538057679	-0.894167	SYNRG	121.0706658	68.04577574	0.562033547	-0.831272
ENSG000002	5.503212081	0	0	-12.13092	POLRMT	459.7238995	854.4918305	0.538008537	-0.894299	GALNT11	600.9507593	337.7393991	0.562008441	-0.831336
ENSG000002	5.503212081	0	0	-12.13092	TUBB4A	14.9368776	27.77931829	0.537697774	-0.895133	ASAH1	2784.625313	1564.223015	0.561735544	-0.832037
DNAJC8P1	5.503212081	0	0	-12.13092	CCR10	14.9368776	27.77931829	0.537697774	-0.895133	LARP4	1272.342633	714.4806452	0.561547359	-0.83252
HMGN1P1	5.503212081	0	0	-12.13092	ENSG000002	14.9368776	27.77931829	0.537697774	-0.895133	NUB1	935.5460539	525.2801956	0.561469094	-0.832721
MRPL15P1	5.503212081	0	0	-12.13092	NINL	616.5611143	1146.730259	0.537668828	-0.89521	DNAAF5	310.3811614	174.263572	0.561450222	-0.83277
CPEB1-AS1	5.503212081	0	0	-12.13092	E4F1	287.9498071	535.5852566	0.537635799	-0.895299	CCDC57	659.2848074	370.1026339	0.561369881	-0.832976
ENSG000002	5.503212081	0	0	-12.13092	MRPL55	176.7530516	328.9071285	0.537395016	-0.895945	NHSL2	443.5588938	248.94796	0.561251197	-0.833281
ENSG000002	5.503212081	0	0	-12.13092	PYGB	1688.696995	3142.396485	0.537391447	-0.895955	STK17A	236.6381195	132.7722453	0.561077165	-0.833729
ENSG000002	5.503212081	0	0	-12.13092	TRPC4AP	950.9812072	1770.098161	0.537247723	-0.896341	RCBTB2	227.8329802	127.7932861	0.560907758	-0.834165
LINC01311	5.503212081	0	0	-12.13092	CEBPD	702.0332472	1306.739132	0.537240548	-0.89636	LRRC37A2	180.5053563	101.2388371	0.56086334	-0.834279
ENSG000002	5.503212081	0	0	-12.13092	MYBBP1A	774.2281556	1441.191033	0.537214108	-0.896431	PPM1F	287.2676707	160.9863475	0.560405378	-0.835457
ENSG000002	5.503212081	0	0	-12.13092	NCR3LG1	34.02288787	63.33684569	0.537173702	-0.896539	JUP	3284.31697	1839.725424	0.56015465	-0.836103
ENSG000002	5.503212081	0	0	-12.13092	BAIAP2	303.7165112	565.5869203	0.53699352	-0.897023	LMNA	928.9421994	520.3012364	0.560100765	-0.836242
ENSG000002	5.503212081	0	0	-12.13092	SEMA6B	91.28091867	170.0094279	0.536916804	-0.89723	SNX29	564.6295596	316.1639092	0.559949269	-0.836632
ENSG000002	5.503212081	0	0	-12.13092	ADGB	19.08601027	35.55752741	0.536764271	-0.897639	SPATA20	714.3169282	399.9763891	0.559942476	-0.836649
ANXA8L1	5.503212081	0	0	-12.13092	TMPRSS3	19.08601027	35.55752741	0.536764271	-0.897639	NLRX1	111.164884	62.23699	0.559861961	-0.836857
MIR5690	5.503212081	0	0	-12.13092	CYP4F11	19.08601027	35.55752741	0.536764271	-0.897639	POLR2J	286.1670282	160.1565209	0.559660985	-0.837375
ARHGAP28-/	5.503212081	0	0	-12.13092	TMEM222	195.0092353	363.3534832	0.536692902	-0.897831	SYVN1	930.0428418	520.3012364	0.559437924	-0.83795
ENSG000002	5.503212081	0	0	-12.13092	SERTAD3	122.8143269	228.9015827	0.536537692	-0.898249	COL24A1	136.4796596	76.34404107	0.55938036	-0.838098
FMNL1-DT	5.503212081	0	0	-12.13092	ZDHHC7	188.3706231	351.1305831	0.536468858	-0.898434	XIRP2	34.11991491	19.08601027	0.55938036	-0.838098
ENSG000002	5.503212081	0	0	-12.13092	ITGB2	365.9535012	682.2600571	0.53638418	-0.898661	GPR157	34.11991491	19.08601027	0.55938036	-0.838098
KCNJ2-AS1	5.503212081	0	0	-12.13092	ZNF358	304.5463377	567.8092658	0.536353237	-0.898745	ERO1B	1185.391882	663.0314002	0.559335195	-0.838215
ENSG000002	5.503212081	0	0	-12.13092	P4HTM	172.6039189	322.2400921	0.535637629	-0.900671	FES	127.6745203	71.36508187	0.558961034	-0.83918
ENSG000002	5.503212081	0	0	-12.13092	LRRC27	145.2196433	271.1261465	0.535616521	-0.900728	ULK3	157.3918655	87.96161254	0.558870131	-0.839415
VSIG10L-AS	5.503212081	0	0	-12.13092	GRHL1	252.2672661	471.1372381	0.535443276	-0.901194	PUS10	93.55460539	52.2790716	0.558808103	-0.839575
LINC02560	5.503212081	0	0	-12.13092	PROB1	31.53340827	58.89215477	0.535443276	-0.901194	RPL3	4923.173528	2750.874958	0.558760511	-0.839698
ENSG000002	5.503212081	0	0	-12.13092	EARS2	220.7338579	412.2450834	0.535443276	-0.901194	ABCC11	29.71734524	16.59653067	0.558479586	-0.840424
ENSG000002	5.503212081	0	0	-12.13092	EIF4G3	3291.921858	6148.118723	0.535435636	-0.901215	RAMP3	29.71734524	16.59653067	0.558479586	-0.840424
ENSG000002	5.503212081	0	0	-12.13092	PACSIN3	199.158368	372.242865	0.535022661	-0.902328	F2R	352.2055732	196.6688884	0.558392324	-0.840649
ENSG000002	5.503212081	0	0	-12.13092	ATP9A	1498.666719	2801.266456	0.534996132	-0.9024	PYGB	3024.56536	1688.696995	0.558327163	-0.840817
ENSG000002	5.503212081	0	0	-12.13092	SPAG8	43.98080627	82.22678213	0.534872035	-0.902734	RPL13	1237.122076	690.4156758	0.558082092	-0.841451
HMGN3-AS1	5.503212081	0	0	-12.13092	PPP3CC	152.6880821	285.571392	0.534675694	-0.903264	TMEM198B	55.03212081	30.70358173	0.557921106	-0.841867
ENSG000002	5.503212081	0	0	-12.13092	VRK3	357.6552359	668.9259843	0.534670867	-0.903277	SEC22B	1816.059987	1013.218197	0.557921106	-0.841867
LPP-AS2	5.503212081	0	0	-12.13092	GCDH	365.9535012	684.4824026	0.534642673	-0.903353	IFITM1	245.4432588	136.921378	0.557853488	-0.842042
CCDC121P1	5.503212081	0	0	-12.13092	ALDH16A1	117.0055412	218.9010281	0.534513438	-0.903702	CXCL2	25.31477557	14.10705107	0.5572655	-0.843563
ENSG000002	5.503212081	0	0	-12.13092	RALGAPA1I	129.4529392	242.2356555	0.534409102	-0.903984	KRT18	1580.52251	880.4459519	0.557060052	-0.844095
ENSG000002	5.503212081	0	0	-12.13092	PLXNB2	2225.594762	4166.897743	0.534113122	-0.904783	CERS2	1251.430427	697.054288	0.557006025	-0.844235
ENSG000002	5.503212081	0	0	-12.13092	SDC2	470.5116444	881.159976	0.53396847	-0.905174	GDF11	143.0835141	79.6633472	0.556761187	-0.844869
ENSG000002	5.503212081	0	0	-12.13092	GPN2	247.2883069	463.359029	0.533686173	-0.905936	MAP6	260.8522527	145.2196433	0.556712246	-0.844996
ENSG000002	5.503212081	0	0	-12.13092	TNFRSF1B	74.684388	140.0077642	0.533430331	-0.906628	ARHGEF10L	517.3019357	287.9498071	0.556637792	-0.845189
ENSG000002	5.503212081	0	0	-12.13092	PARL	29.04392867	54.44746384	0.533430331	-0.906628	SQSTM1	92.45396297	51.44924507	0.556485016	-0.845585
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	20.74566333	38.8910456	0.533430331	-0.906628	MKX	478.7794511	266.3743172	0.556361215	-0.845906
ENSG000002	5.503212081	0	0	-12.13092	CFAP141	12.447398	23.33462736	0.533430331	-0.906628	SCFD2	428.1498999	238.1602151	0.556254282	-0.846184
ENSG000002	5.503212081	0	0	-12.13092	SGMS1-AS1	12.447398	23.33462736	0.533430331	-0.906628	TADA2B	268.5567496	149.368776	0.556190735	-0.846348
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	8.298265334	15.55641824	0.533430331	-0.906628	CCDC168	134.2783748	74.684388	0.556190735	-0.846348
CCL23	5.503212081	0	0	-12.13092	SPAM1	4.149132667	7.77820912	0.533430331	-0.906628	PLA2G6	289.4689555	160.9863475	0.55614374	-0.84647
ENSG000002	5.503212081	0	0	-12.13092	PLPPR5	4.149132667	7.77820912	0.533430331	-0.906628	MAP4K3	2033.987185	1131.053565	0.556077036	-0.846643
TRBV10-3	5.503212081	0	0	-12.13092	S1PR4	4.149132667	7.77820912	0.533430331	-0.906628	MOB3A	385.2248457	214.0952456	0.555766971	-0.847448
ENSG000002	5.503212081	0	0	-12.13092	CIB3	4.149132667	7.77820912	0.533430331	-0.906628	PKDCC	62.73661773	34.8527144	0.55554022	-0.848037
ENSG000002	5.503212081	0	0	-12.13092	TEX12	4.149132667	7.77820912	0.533430331	-0.906628	ARPP21	20.91220591	11.61757147	0.55554022	-0.848037
ENSG000002	5.503212081	0	0	-12.13092	OR7G2	4.149132667	7.77820912	0.533430331	-0.906628	ZNF846	392.9293426	218.2443783	0.555429067	-0.848325
ENSG000002	5.503212081	0	0	-12.13092	ZNF843	4.149132667	7.77820912	0.533430331	-0.906628	SH3GLB2	1122.655265	623.1997266	0.555112283	-0.849148
ENSG000002	5.503212081	0	0	-12.13092	CACTIN-AS	4.149132667	7.77820912	0.533430331	-0.906628	CCDC85B	100.1584599	55.59837774	0.55510416	-0.84917
ENSG000002	5.503212081	0	0	-12.13092	RPLP0P2	4.149132667	7.77820912	0.533430331	-0.906628	LDB3	175.0021442	97.0897044	0.554791513	-0.849982
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	4.149132667	7.77820912	0.533430331	-0.906628	NPIPB3	478.7794511	265.5444907	0.554628003	-0.850408
ENSG000002	5.503212081	0	0	-12.13092	HNRNPUP1	4.149132667	7.77820912	0.533430331	-0.906628	NPTN	1390.111372	770.9088495	0.554566249	-0.850568
ENSG000002	5.503212081	0	0	-12.13092	ENSG000002	4.149132667	7.77820912	0.533430331	-0.906628	CTTN	112.2655265	62.23699	0.554373118	-0.851071
ENSG000002	5.503212081	0	0	-12.13092	TRAC	4.149132667	7.77820912	0.533430331	-0.906628	RAB3GAP1	1872.19275	1037.283167	0.554047208	-0.851919
ENSG000002	5.503212081	0	0	-12.13092	DYNC2I1	217.4145517	407.8003924	0.533139633	-0.907415	EP300	7400.719607	4100.172901	0.554023544	-0.851981
ENSG000002	5.503212081	0	0	-12.13092	PABPC1L	422.3817055	792.2661575	0.533131072	-0.907438	CCDC66	647.1777408	358.4850624	0.553920569	-0.852249
ENSG000002	5.503212081	0	0	-12.13092	PLAAT3	326.9516541	613.3673478	0.533043787	-0.907674	NPIPB12	431.4518272	238.9900416	0.553920569	-0.852249
LINC01232	5.503212081	0	0	-12.13092	ADAR	4886.018628	9172.730898	0.532667826	-0.908692	AP3S2	70.44111464	39.00184707	0.553680152	-0.852875
TRG-AS1	5.503212081	0	0	-12.13092	ENSG000002	199.9881945	375.5763832	0.532483413	-0.909192	TMCC3	380.822276	210.7759395	0.553475867	-0.853408
ENSG000002	5.503212081	0	0	-12.13092	CILP2	47.3001124	88.89381852	0.532096755	-0.910239	ADD1	1998.766628	1106.158769	0.553420671	-0.853552
ENSG000002	5.503212081	0	0	-12.13092	FABP3	34.8527144	65.55919115	0.531622093	-0.911527	CCDC149	272.9593192	151.0284291	0.553300138	-0.853866
ENSG000002	5.503212081	0	0	-12.13092	CSMD3	34.8527144	65.55919115	0.531622093	-0.911527	N6AMT1	152.9892959	84.6423064	0.553256396	-0.85398
ASDURF	5.503212081	0	0	-12.13092	REEP5	329.4411337	620.0343841	0.531327201	-0.912328	CCDC146	169.4989321	93.77039827	0.553221174	-0.854072
ENSG000002	5.503212081	0	0	-12.13092	BCKDK	294.5884193	554.475193	0.531292334	-0.912422	OSBP	2966.231312	1640.567056	0.553081295	-0.854437
ENSG000002	5.503212081	0	0	-12.13092	ZNF528	253.0970927	476.6931018	0.530943476	-0.91337	ZNF573	400.6338395	221.5636844	0.553032876	-0.854563
ENSG000002	5.503212081	0	0	-12.13092	TMEM128	75.51421454	142.2301096	0.530929876	-0.913407	DHRS12	33.01927249	18.25618373	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	ARFGAP3	586.6873591	1105.616868	0.530642555	-0.914188	STAC2	33.01927249	18.25618373	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	SDR39U1	179.2425312	337.7965104	0.530622803	-0.914241	HHAT	16.50963624	9.128091867	0.55289479	-0.854923
C2orf27A	5.503212081	0	0	-12.13092	CNGB3	22.4053164	42.22456379	0.530622803	-0.914241	MFSD14A	16.50963624	9.128091867	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	VPS13D	4809.674587	9066.058316	0.530514411	-0.914536	RPL21P75	16.50963624	9.128091867	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	ZNF212	85.47213294	161.1200461	0.530487267	-0.91461	EMC1-AS1	16.50963624	9.128091867	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	PTPN23	989.9830543	1866.770189	0.530318654	-0.915069	YEATS2-AS1	16.50963624	9.128091867	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	DCAF12L2	77.1738676	145.5636278	0.530172741	-0.915466	PBX2P1	16.50963624	9.128091867	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	RRP8	91.28091867	172.2317734	0.529988845	-0.915966	TAGAP	99.05781747	54.7685512	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	NFE2L1	2789.876805	5265.847574	0.529805841	-0.916464	LAPTM5	478.7794511	264.7146641	0.55289479	-0.854923
ENSG000002	5.503212081	0	0	-12.13092	RWDD2A	64.7264696	122.2290005	0.529550838	-0.917159	TBL1X	960.8608294	531.0889814	0.552722065	-0.855374
ENSG000002	5.503212081	0	0	-12.13092	GALNT11	337.7393991	637.8131478	0.529527182	-0.917223	ATP5MF	226.7323378	125.3038065	0.552650794	-0.85556
ENSG000002	5.503212081	0	0	-12.13092	TNKS1BP1	1117.77634	2111.22819	0.529443641	-0.917451	PTPRE	210.2227015	116.1757147	0.552631632	-0.85561
ENSG000002	5.503212081	0	0	-12.13092	QDPR	125.3038065	236.6797918	0.529423343	-0.917506	EEF1D	111.164884	61.40716347	0.552397135	-0.856222
ENSG000002	5.503212081	0	0	-12.13092	GPBP1L1	1099.520157	2077.893008	0.529151478	-0.918247	TMEM175	189.3104956	104.5581432	0.552310335	-0.856449
ENSG000002	5.503212081	0	0	-12.13092	FLCN	173.4337455	327.7959558	0.529090559	-0.918413	GYS1	830.9850243	458.894073	0.552229053	-0.856661
ADCY10P1.1	5.503212081	0	0	-12.13092	LZTR1	14.10705107	26.66814555	0.528985078	-0.918701	RAB5B	937.7473387	517.8117568	0.552186858	-0.856772
ENSG000002	5.503212081	0	0	-12.13092	PPP1R3C	14.10705107	26.66814555	0.528985078	-0.918701	TJP1	217.9271984	120.3248473	0.552133227	-0.856912
ENSG000002	5.503212081	0	0	-12.13092	GADL1	14.10705107	26.66814555	0.528985078	-0.918701	RPL29P4	61.63597531	34.02288787	0.551997234	-0.857267
RPL23AP7.1	5.503212081	0	0	-12.13092	RPAP1	253.9269192	480.02662	0.528985078	-0.918701	ARFGEF1	11180.32566	6169.760276	0.551840837	-0.857676

H2BP1	5.503212081	0	0	-12.13092	NPIPB4	66.38612267	125.5625187	0.528709709	-0.919452	DCHS1	1169.982889	645.605043	0.551807252	-0.857764
AZGP1P1	5.503212081	0	0	-12.13092	GRIP1	114.5160616	216.6786826	0.528506359	-0.920007	PLXNA4	221.2291257	121.9845004	0.551394397	-0.858843
ENSG000002	5.503212081	0	0	-12.13092	MAP3K11	445.6168484	843.3801032	0.528370122	-0.920379	SLC7A6OS	114.4668113	63.06681654	0.550961592	-0.859976
DPEP1	4.402569665	0	0	-12.13092	SLC2A4RG	443.1273688	838.9354122	0.528202007	-0.920838	TRPA1	28.61670282	15.76670413	0.550961592	-0.859976
FKBP6	4.402569665	0	0	-12.13092	RAI2	429.0203178	812.2672667	0.528176298	-0.920909	PROS1	326.8907976	180.0723577	0.550863955	-0.860232
SEC14L3	4.402569665	0	0	-12.13092	CYSTM1	92.1107452	174.4541188	0.527994098	-0.921406	STK36	894.8222845	492.9169608	0.550854588	-0.860257
KLF1	4.402569665	0	0	-12.13092	PTPN9	252.2672661	477.8042745	0.527971974	-0.921467	RNF185	126.5738779	69.7054288	0.550709435	-0.860637
AMBP	4.402569665	0	0	-12.13092	MRPL20	316.1639092	598.9221022	0.527888198	-0.921696	PM20D2	868.4068665	477.9800832	0.550410299	-0.861421
FGF8	4.402569665	0	0	-12.13092	TUSC2	63.89664307	121.1178277	0.527557704	-0.922599	FAM117A	260.8522527	143.5599903	0.55034982	-0.861579
IL2	4.402569665	0	0	-12.13092	ARHGAP32	2022.287262	3834.657096	0.527371082	-0.92311	FOXJ2	672.4925164	370.1026339	0.550344613	-0.861593
C11orf21	4.402569665	0	0	-12.13092	APC2	39.8316736	75.55974574	0.52715468	-0.923702	LAMA2	3042.175639	1673.760118	0.550185235	-0.862011
IL23A	4.402569665	0	0	-12.13092	TBX6	19.9158368	37.77987287	0.52715468	-0.923702	BST1	40.7237694	22.4053164	0.550177862	-0.86203
IFNG	4.402569665	0	0	-12.13092	UROC1	19.9158368	37.77987287	0.52715468	-0.923702	KIF1C	2457.734516	1351.787423	0.550013606	-0.862461
HAND1	4.402569665	0	0	-12.13092	ABCB6	9.9579184	18.88993643	0.52715468	-0.923702	ZNF106	4947.387661	2720.171376	0.549819736	-0.862969
CDX1	4.402569665	0	0	-12.13092	XIRP1	9.9579184	18.88993643	0.52715468	-0.923702	TPM4P2	52.83083598	29.04392867	0.549753342	-0.863144
ZP4	4.402569665	0	0	-12.13092	FNBP1	579.2189203	1098.949831	0.527065844	-0.923945	CATSPERE	170.5995745	93.77039827	0.549652005	-0.86341
OLFM3	4.402569665	0	0	-12.13092	SNAP47	417.4027463	792.2661575	0.526846619	-0.924545	TPT1	8361.580437	4595.579342	0.549606546	-0.863529
GJA3	4.402569665	0	0	-12.13092	TRIM68	107.0476228	203.3446099	0.526434524	-0.925674	KMT2C	19504.48426	10718.86933	0.549559229	-0.863653
TRIM51	4.402569665	0	0	-12.13092	ZBTB20	884.5950846	1681.204343	0.526167499	-0.926406	IKZF4	154.0899383	84.6423064	0.549304564	-0.864322
OTOR	4.402569665	0	0	-12.13092	ABI3BP	500.3853996	951.1638581	0.526076969	-0.926654	OVGP1	77.04496914	42.3211532	0.549304564	-0.864322
GALR3	4.402569665	0	0	-12.13092	ZC3H7B	612.4119816	1164.509023	0.525897155	-0.927147	EPHX1	1394.513941	765.9298903	0.549245058	-0.864478
PPAN	4.402569665	0	0	-12.13092	HGS	497.0660935	945.6079945	0.525657668	-0.927805	USP42	1065.421859	585.027706	0.549104283	-0.864848
HRH4	4.402569665	0	0	-12.13092	PEX11G	15.76670413	30.00166375	0.52552766	-0.928161	HYPK	149.6873686	82.1528268	0.548829387	-0.86557
CHAD	4.402569665	0	0	-12.13092	CPNE5	15.76670413	30.00166375	0.52552766	-0.928161	ALDH1L2	234.4368347	128.6231127	0.548647199	-0.866049
IL36A	4.402569665	0	0	-12.13092	MAP4K2	299.5673785	570.0316112	0.52552766	-0.928161	DOK2	60.5353329	33.19306133	0.548325412	-0.866896
RBP5	4.402569665	0	0	-12.13092	MICOS13	179.2425312	341.1300286	0.525437564	-0.928409	EID3	48.42826632	26.55444907	0.548325412	-0.866896
FABP2	4.402569665	0	0	-12.13092	EYA2	427.3606647	813.3784394	0.525414302	-0.928473	NCF1	24.21413316	13.27724453	0.548325412	-0.866896
TAAR6	4.402569665	0	0	-12.13092	C11orf96	68.87560227	131.1183823	0.525293258	-0.928805	RDH16	12.10706658	6.638612267	0.548325412	-0.866896
TAAR8	4.402569665	0	0	-12.13092	PPL	396.6570829	755.5974574	0.524958202	-0.929726	CREG2	12.10706658	6.638612267	0.548325412	-0.866896
NKX6-2	4.402569665	0	0	-12.13092	GBA2	727.7578698	1386.743569	0.524796283	-0.930171	KRT18P31	12.10706658	6.638612267	0.548325412	-0.866896
CNTNAP4	4.402569665	0	0	-12.13092	LRBA	15170.05886	28909.38095	0.524745199	-0.930311	ENSG000002	12.10706658	6.638612267	0.548325412	-0.866896
TEX55	4.402569665	0	0	-12.13092	TMEM30B	585.8575326	1116.728595	0.524619442	-0.930657	ENSG000002	12.10706658	6.638612267	0.548325412	-0.866896
NPY5R	4.402569665	0	0	-12.13092	PISD	141.0705107	268.903801	0.524613301	-0.930674	SDHAP1	12.10706658	6.638612267	0.548325412	-0.866896
GJB7	4.402569665	0	0	-12.13092	DYNC2LI1	260.5655315	496.694211	0.524599493	-0.930712	PARP12	431.4518272	236.500562	0.548150563	-0.867356
CXorf58	4.402569665	0	0	-12.13092	RFXANK	125.3038065	238.9021373	0.524498474	-0.93099	BCL2L13	439.1563241	240.6496947	0.547981849	-0.8678
PHOX2A	4.402569665	0	0	-12.13092	C19orf25	126.9634596	242.2356555	0.524132004	-0.931998	QTRT1	165.0963624	90.45109214	0.547868474	-0.868099
GFI1B	4.402569665	0	0	-12.13092	TPRN	171.7740924	327.7959558	0.524027491	-0.932286	MKNK2	1272.342633	697.054288	0.547851082	-0.868144
LDHC	4.402569665	0	0	-12.13092	INTS5	277.1620621	528.9182202	0.524016855	-0.932315	ZBED4	1370.299808	750.1631862	0.547444568	-0.869215
AQP2	4.402569665	0	0	-12.13092	FBXO9	914.4688398	1745.652361	0.52385507	-0.93276	PCDHGB2	160.6937928	87.96161254	0.547386498	-0.869368
CA7	4.402569665	0	0	-12.13092	HCLS1	206.6268068	394.4663197	0.523813559	-0.932875	CSPG5	341.1991491	186.71097	0.547219917	-0.869807
HSPB3	4.402569665	0	0	-12.13092	CYP2J2	44.8106328	85.56030032	0.523731598	-0.9331	EGR3	124.372593	68.04577574	0.547112302	-0.870091
SPRR1A	4.402569665	0	0	-12.13092	ETFB	50.61941854	96.67202764	0.523620118	-0.933408	RREB1	2973.935809	1626.460005	0.54690488	-0.870638
IRX1	4.402569665	0	0	-12.13092	HBP1	62.23699	118.8954823	0.523459671	-0.93385	GPRC5B	132.07709	72.1949084	0.546611895	-0.871411
PLAC1	4.402569665	0	0	-12.13092	ZNF503	250.6076131	478.9154472	0.523281541	-0.934341	DSTN	4684.334124	2560.014855	0.546505605	-0.871692
SOSTDC1	4.402569665	0	0	-12.13092	PHYKPL	421.551879	805.6002303	0.523276761	-0.934354	FN3K	239.9400468	131.1125923	0.546438971	-0.871868
UTF1	4.402569665	0	0	-12.13092	LGALS1	170.9442659	326.684783	0.523269753	-0.934373	FBXL18	343.4004339	187.5407965	0.546128595	-0.872687
GPRC6A	4.402569665	0	0	-12.13092	COG1	611.5821551	1168.953713	0.523187658	-0.9346	GPR63	63.83726015	34.8527144	0.54596194	-0.873128
LY6H	4.402569665	0	0	-12.13092	SMPD4BP	246.4584804	471.1372381	0.52311399	-0.934803	SRRM5	31.91863007	17.4263572	0.54596194	-0.873128
NKX2-6	4.402569665	0	0	-12.13092	METTL25B	155.1775617	296.6831193	0.523041426	-0.935003	ABCG2	127.6745203	69.7054288	0.54596194	-0.873128
C12orf40	4.402569665	0	0	-12.13092	PHLDA1	663.0314002	1267.848087	0.522958079	-0.935233	ZFC3H1	3304.128534	1803.213057	0.545745433	-0.8737
GPR62	4.402569665	0	0	-12.13092	RRN3	11.61757147	22.22345463	0.522761725	-0.935775	TIMP2	1809.456132	987.4935747	0.545740544	-0.873713
MAB21L2	4.402569665	0	0	-12.13092	NRG2	11.61757147	22.22345463	0.522761725	-0.935775	MEF2A	872.8094361	476.3204302	0.545732448	-0.873734
ADIG	4.402569665	0	0	-12.13092	ROBO2	11.61757147	22.22345463	0.522761725	-0.935775	CYBB	545.9186385	297.9077255	0.545699862	-0.87382
RPL29P16	4.402569665	0	0	-12.13092	AQP7B	11.61757147	22.22345463	0.522761725	-0.935775	SHLD2	860.7023695	469.6818179	0.545695974	-0.873831
CTAG1B	4.402569665	0	0	-12.13092	AMOTL2	174.263572	333.3518194	0.522761725	-0.935775	SPATA17	238.8394043	130.2827657	0.545482711	-0.874395
UFD1-AS1	4.402569665	0	0	-12.13092	AKR7L	40.66150013	77.7820912	0.522761725	-0.935775	S1PR3	290.5695979	158.4968679	0.54546955	-0.874429
NSMCE3	4.402569665	0	0	-12.13092	RRH	17.4263572	33.33518194	0.522761725	-0.935775	TRIM8	684.5995829	373.42194	0.545460367	-0.874454
TRIM69	4.402569665	0	0	-12.13092	TNIP3	5.808785734	11.11172731	0.522761725	-0.935775	GPR158	51.73019357	28.21410213	0.545408787	-0.87459
KLHL34	4.402569665	0	0	-12.13092	C3orf18	5.808785734	11.11172731	0.522761725	-0.935775	MFSD12	449.0621058	244.7988273	0.545133567	-0.875318
SPACDR	4.402569665	0	0	-12.13092	SLC17A2	5.808785734	11.11172731	0.522761725	-0.935775	TCAIM	345.6017187	188.3706231	0.545051176	-0.875536
H1-7	4.402569665	0	0	-12.13092	GTF2H2	5.808785734	11.11172731	0.522761725	-0.935775	ADAM9	3981.02362	2169.166558	0.544876586	-0.875999
DHRS4L2	4.402569665	0	0	-12.13092	WDR64	5.808785734	11.11172731	0.522761725	-0.935775	BET1	138.6809445	75.51421454	0.544517596	-0.876949
OR2AG2	4.402569665	0	0	-12.13092	SSMEM1	5.808785734	11.11172731	0.522761725	-0.935775	SLC9B1	19.81156349	10.78774493	0.544517596	-0.876949
VWC2	4.402569665	0	0	-12.13092	SPIC	5.808785734	11.11172731	0.522761725	-0.935775	DEUP1	19.81156349	10.78774493	0.544517596	-0.876949
CALHM6	4.402569665	0	0	-12.13092	PHOSPHO1	5.808785734	11.11172731	0.522761725	-0.935775	ENSG000002	19.81156349	10.78774493	0.544517596	-0.876949
AADACL3	4.402569665	0	0	-12.13092	ATP13A5	5.808785734	11.11172731	0.522761725	-0.935775	ENSG000002	19.81156349	10.78774493	0.544517596	-0.876949
OR6M1	4.402569665	0	0	-12.13092	C9orf163	5.808785734	11.11172731	0.522761725	-0.935775	TARS3	602.0514017	327.7814807	0.544441022	-0.877152
LINC03042	4.402569665	0	0	-12.13092	FAM83A-AS	5.808785734	11.11172731	0.522761725	-0.935775	CD27-AS1	86.95075089	47.3001124	0.543987394	-0.878355
ALKAL1	4.402569665	0	0	-12.13092	ENSG000002	5.808785734	11.11172731	0.522761725	-0.935775	SEMA4G	47.3276239	25.72462253	0.543543504	-0.879533
LINC01560	4.402569665	0	0	-12.13092	STXBP5-AS	5.808785734	11.11172731	0.522761725	-0.935775	ARFGAP1	708.8137161	385.0395115	0.54321679	-0.8804
H2BC26	4.402569665	0	0	-12.13092	MSC-AS1	5.808785734	11.11172731	0.522761725	-0.935775	RPL10P9	897.0235693	487.1081751	0.543027175	-0.880904
SIGLEC15	4.402569665	0	0	-12.13092	LRP4-AS1	5.808785734	11.11172731	0.522761725	-0.935775	KBTBD3	82.54818122	44.8106328	0.542842158	-0.881395
ZNF679	4.402569665	0	0	-12.13092	RETREG2	814.8896558	1558.975342	0.522708496	-0.935921	EFCAB15P	27.51606041	14.9368776	0.542842158	-0.881395
S100A7L2	4.402569665	0	0	-12.13092	TMED3	370.1026339	708.9282027	0.522059402	-0.937714	PTPN23	1823.764484	989.9830543	0.542823957	-0.881444
CLEC4C	4.402569665	0	0	-12.13092	DHX34	562.6223896	1077.837549	0.521991825	-0.937901	BMPR2	4798.800935	2603.995662	0.542634649	-0.881947
SSBP3-AS1	4.402569665	0	0	-12.13092	THBS4	53.93872467	103.339064	0.521958711	-0.937992	FUCA1	643.8758135	349.3569705	0.542584398	-0.882081
RNU6-414P	4.402569665	0	0	-12.13092	SLC35C1	103.7283167	198.8999189	0.5215101	-0.939233	CRY2	333.4946521	180.9021843	0.542444034	-0.882454
SNORA70.1	4.402569665	0	0	-12.13092	MAP2K2	869.658207	1667.87027	0.521418376	-0.939487	FIBIN	62.73661773	34.02288787	0.542313072	-0.882802
SNORA62	4.402569665	0	0	-12.13092	RARA	159.3266944	305.5725011	0.521403902	-0.939527	COMMD1	97.95717505	53.10889814	0.542164452	-0.883198
LIPJ	4.402569665	0	0	-12.13092	SHC4	30.70358173	58.89215477	0.521352663	-0.939668	PREX1	681.2976557	369.2728073	0.542013912	-0.883598
MAPK6P1	4.402569665	0	0	-12.13092	GNA12	316.1639092	606.7003114	0.5211204	-0.940311	TAF1C	274.0599617	148.5389495	0.541994345	-0.88365
RNASE13	4.402569665	0	0	-12.13092	ZNF839	105.3879697	202.2334371	0.5211204	-0.940311	LRP5	1828.167053	990.8128808	0.541970647	-0.883713
OR5K3	4.402569665	0	0	-12.13092	PRKCZ	341.0587052	654.4807388	0.521113434	-0.940331	GPM6B	140.8822293	76.34404107	0.541899723	-0.883902
MIR648	4.402569665	0	0	-12.13092	ENSG000002	24.894796	47.78042745	0.521024975	-0.940576	RUNX2	261.9528951	141.9003372	0.541701733	-0.884429
MT-TL1	4.402569665	0	0	-12.13092	NAT8L	19.08601027	36.66870014	0.520498687	-0.942034	TOP3B	383.0235609	207.4566333	0.541628909	-0.884623
MT-TW	4.402569665	0	0	-12.13092	ATP5F1D	167.6249597	322.2400921	0.520186544	-0.942899	RASSF1	128.7751627	69.7054288	0.541295599	-0.885511
MT-TD	4.402569665	0	0	-12.13092	MEX3D	538.5574202	1035.612986	0.520037338	-0.943313	CD9	2450.030019	1325.232974	0.54090479	-0.886553
IGKJ1	4.402569665	0	0	-12.13092	GTF2IP4	182.5618373	351.1305831	0.519925766	-0.943622	ZCCHC2	1085.233422	586.6873591	0.540609372	-0.887342
TRDJ2	4.402569665	0	0	-12.13092	SMUG1	125.3038065	241.1244827	0.519664387	-0.944348	NEDD4	474.3768814	256.4163988	0.540533084	-0.887545
TRAJ6	4.402569665	0	0	-12.13092	STK40	303.7165112	584.4768567	0.519638216	-0.944421	FBXW8	337.8972218	182.5618373	0.540288069	-0.888199
AURKAP1	4.402569665	0	0	-12.13092	EIF5AP4	13.27722453	25.55697282	0.519514757	-0.944763	ARNT2	345.6017187	186.71097	0.540248963	-0.888304
H3P4	4.402569665	0	0	-12.13092	BBS4	200.8180211	386.6881105	0.51932815	-0.945282	MTA1	1176.586743	635.6471246	0.540246716	-0.88831
MT1P1	4.402569665	0	0	-12.13092	DUSP1	602.4540632	1160.064332	0.51932815	-0.945282	MED23	1463.854414	790.8246863	0.54023452	-0.888342
RPL31P10	4.402569665	0	0	-12.13092	NDRG3	871.31786	1677.870824	0.519299726	-0.945361	JAK2	1083.032138	585.027706	0.540175758	-0.888499
RPS4XP1	4.402569665	0	0	-12.13092	MATN3	87.131786	167.7870824	0.519299726	-0.945361	ADAT2	73.74304189	39.8316736	0.54014145	-0.888591
SLC9B1P2	4.402569665	0	0	-12.13092	NBL1	304.5463377	586.6992022	0.519084288	-0.945959	ITGB5	1175.486101	634.817298	0.540046622	-0.888844
POLR3DP1	4.402569665	0	0	-12.13092	GASK1B	514.4924507	991.1660764	0.519077946	-0.945977	COG7	895.9229269	483.788869	0.539989384	-0.888997
RPSAP6	4.402569665	0	0	-12.13092	KIAA0930	196.6688884	378.9099014	0.519038662	-0.946086	SKI	646.0770984	348.527144	0.539451321	-0.890435
TERF1P4	4.402569665	0	0	-12.13092	VSTM4	34.02288787	65.55919115	0.518964424	-0.946292	PCF11	2835.254864	1529.370301	0.539411931	-0.890541
ENSG000002	4.402569665	0	0	-12.13092	MRPL54	117.0055412	225.5680645	0.518715012	-0.946986	KCNK1	158.4925079	85.47213294	0.53928185	-0.890889
ACTG1P3	4.402569665	0	0	-12.13092	SCO2	20.74566333	40.00221833	0.518612822	-0.94727	GUF1	726.4239948	391.6781237	0.539186655	-0.891143

KRTAP10-4	4.402569665	0	0	-12.13092	EEF2	14804.93518	28550.47216	0.518553077	-0.947436	ARID4B	3603.503271	1941.794088	0.538862863	-0.89201
LRRC37A14I	4.402569665	0	0	-12.13092	ZNF524	84.6423064	163.3423915	0.518189465	-0.948448	CTSD	389.6274154	209.9461129	0.538838143	-0.892076
ENSG000002	4.402569665	0	0	-12.13092	WDR90	776.7176352	1498.972015	0.518166869	-0.948511	GALNT10	674.6938012	363.4640216	0.538709591	-0.89242
CROCCP2	4.402569665	0	0	-12.13092	SLC35C2	325.2920011	627.8125933	0.518135515	-0.948599	SHFL	192.6124229	103.7283167	0.538533887	-0.892891
KRASP1	4.402569665	0	0	-12.13092	WDR55	156.0073883	301.1278102	0.518076986	-0.948762	GUCY2C	23.11349074	12.447398	0.538533887	-0.892891
RNU4ATAC1	4.402569665	0	0	-12.13092	ADGRL2	1676.249597	3235.734994	0.518042918	-0.948856	LINC02913	23.11349074	12.447398	0.538533887	-0.892891
FTH1P10	4.402569665	0	0	-12.13092	MMP2	377.5710727	728.9293118	0.517980367	-0.949031	TPD52L1	123.2719506	66.38612267	0.538533887	-0.892891
TMSB4XP4	4.402569665	0	0	-12.13092	TMEM143	43.15097974	83.33795486	0.517783041	-0.94958	FAM133B	123.2719506	66.38612267	0.538533887	-0.892891
EFCAB6-AS1	4.402569665	0	0	-12.13092	CPTP	43.15097974	83.33795486	0.517783041	-0.94958	ASL	77.04496914	41.49132667	0.538533887	-0.892891
ASS1P2	4.402569665	0	0	-12.13092	SHC1	367.6131543	710.0393754	0.517736293	-0.949711	ZNF710-AS1	30.81798766	16.59653067	0.538533887	-0.892891
TNS1-AS1	4.402569665	0	0	-12.13092	TNKS	93.77039827	181.1211552	0.517721953	-0.949751	CROCC	15.40899383	8.298265334	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	DENND4B	695.394635	1343.407832	0.517634793	-0.949994	IL15	15.40899383	8.298265334	0.538533887	-0.892891
PTPN2P2	4.402569665	0	0	-12.13092	RASSF4	102.8984901	198.8999189	0.51733802	-0.950821	FAM181B	15.40899383	8.298265334	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	ERGIC3	1516.922903	2932.384838	0.517300077	-0.950927	CLECL1P	15.40899383	8.298265334	0.538533887	-0.892891
PDIA3P2	4.402569665	0	0	-12.13092	SLC44A3	291.2691132	563.3645748	0.51701709	-0.951716	LINC01266	15.40899383	8.298265334	0.538533887	-0.892891
PLA2G12AP1	4.402569665	0	0	-12.13092	PI4KAP2	44.8106328	86.67147305	0.51701709	-0.951716	SNX25P1	15.40899383	8.298265334	0.538533887	-0.892891
RASAL2-AS1	4.402569665	0	0	-12.13092	RABL3	283.8006744	548.9193293	0.51701709	-0.951716	ENSG000002	15.40899383	8.298265334	0.538533887	-0.892891
TUBB4BP2	4.402569665	0	0	-12.13092	BLOC1S1	29.8737552	57.78098203	0.51701709	-0.951716	ENSG000002	15.40899383	8.298265334	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	LRMDA	14.9368776	28.89049102	0.51701709	-0.951716	GNAT2	7.704496914	4.149132667	0.538533887	-0.892891
SETP20	4.402569665	0	0	-12.13092	TERT	14.9368776	28.89049102	0.51701709	-0.951716	TEX12	7.704496914	4.149132667	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	LYL1	7.4684388	14.44524551	0.51701709	-0.951716	CIBAR2	7.704496914	4.149132667	0.538533887	-0.892891
TMED2P1	4.402569665	0	0	-12.13092	NAPSA	7.4684388	14.44524551	0.51701709	-0.951716	GOLGA6A	7.704496914	4.149132667	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	ZNF157	7.4684388	14.44524551	0.51701709	-0.951716	GARIN4	7.704496914	4.149132667	0.538533887	-0.892891
GTF2IP14	4.402569665	0	0	-12.13092	FUT3	7.4684388	14.44524551	0.51701709	-0.951716	ASPG	7.704496914	4.149132667	0.538533887	-0.892891
KCNIP2-AS1	4.402569665	0	0	-12.13092	GAL3ST3	7.4684388	14.44524551	0.51701709	-0.951716	UMOD	7.704496914	4.149132667	0.538533887	-0.892891
FGF13-AS1	4.402569665	0	0	-12.13092	RPP38-DT	7.4684388	14.44524551	0.51701709	-0.951716	PENK	7.704496914	4.149132667	0.538533887	-0.892891
MTND4P32	4.402569665	0	0	-12.13092	CCER1	7.4684388	14.44524551	0.51701709	-0.951716	NKAPL	7.704496914	4.149132667	0.538533887	-0.892891
RPS17P8	4.402569665	0	0	-12.13092	SLC41A3	421.551879	815.6007849	0.516860561	-0.952153	GTF2IRD2	7.704496914	4.149132667	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	PARP9	1016.537503	1966.775735	0.516854812	-0.952169	SERPINB13	7.704496914	4.149132667	0.538533887	-0.892891
AGKP1	4.402569665	0	0	-12.13092	HIBADH	242.3093477	468.9148927	0.516744833	-0.952476	MGAT4D	7.704496914	4.149132667	0.538533887	-0.892891
TEX41	4.402569665	0	0	-12.13092	LIG3	931.895197	1803.433343	0.516733929	-0.952506	MFSD2B	7.704496914	4.149132667	0.538533887	-0.892891
H2BP6	4.402569665	0	0	-12.13092	MINK1	1102.839463	2134.562817	0.516658237	-0.952718	ANAPC10P1	7.704496914	4.149132667	0.538533887	-0.892891
COPS8-DT	4.402569665	0	0	-12.13092	SPPL2B	175.0933985	338.9076831	0.516640393	-0.952768	FEZF1-AS1	7.704496914	4.149132667	0.538533887	-0.892891
LINC02936	4.402569665	0	0	-12.13092	WDFY3	3812.223094	7379.298109	0.516610528	-0.952851	CLIC4P3	7.704496914	4.149132667	0.538533887	-0.892891
SLC2A1-DT	4.402569665	0	0	-12.13092	KMT2D	6154.823398	11919.54989	0.516363743	-0.95354	MTND6P4	7.704496914	4.149132667	0.538533887	-0.892891
LYPLAL1-DT	4.402569665	0	0	-12.13092	NBPF3	139.4108576	270.0149737	0.516307876	-0.953696	ALG1L2	7.704496914	4.149132667	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	GOLGA8A	46.47028587	90.00499125	0.516307876	-0.953696	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
DCAF8-DT	4.402569665	0	0	-12.13092	ACAA1	178.4127047	345.5747195	0.51627823	-0.953779	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
ENSG000002	4.402569665	0	0	-12.13092	TXK	55.59837774	107.7837549	0.51583263	-0.955025	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
PPP1R12BP1	4.402569665	0	0	-12.13092	RANBP10	175.9232251	341.1300286	0.515707239	-0.955376	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
LYPD9P	4.402569665	0	0	-12.13092	ATP8B4	72.1949084	140.0077642	0.51564932	-0.955538	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
HSPE1P28	4.402569665	0	0	-12.13092	GTPBP6	48.12993894	93.33850944	0.51564932	-0.955538	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
TRBV5-4	4.402569665	0	0	-12.13092	GRIP2	24.06496947	46.66925472	0.51564932	-0.955538	ENSG000002	7.704496914	4.149132667	0.538533887	-0.892891
BANF1P2	4.402569665	0	0	-12.13092	ALG12	160.9863475	312.2395375	0.515586043	-0.955715	FCGR2A	277.3618889	149.368776	0.538533887	-0.892891
LINC02580	4.402569665	0	0	-12.13092	AFMID	155.1775617	301.1278102	0.515321257	-0.956456	MTSS2	1028.000017	553.4942978	0.538418569	-0.8932
RPL10P3	4.402569665	0	0	-12.13092	PPP3CA	1336.020719	2593.477155	0.515146515	-0.956945	RAB4A	957.5589022	515.3222772	0.538162484	-0.893886
ENSG000002	4.402569665	0	0	-12.13092	ROM1	16.59653067	32.22400921	0.515036182	-0.957254	TMEM87A	914.6338479	492.0871343	0.538015442	-0.894281
ENSG000002	4.402569665	0	0	-12.13092	RBMXP2	16.59653067	32.22400921	0.515036182	-0.957254	HM13	1533.194886	824.8475742	0.537992646	-0.894342
WBP1P1	4.402569665	0	0	-12.13092	WWP1	1605.714342	3119.061857	0.514806828	-0.957897	ST7	603.1520441	324.4621745	0.537944251	-0.894471
RPL7P21	4.402569665	0	0	-12.13092	PPARD	287.1199805	557.8087112	0.514728391	-0.958117	RFX7	2703.177774	1453.856086	0.537832214	-0.894772
ABCA9-AS1	4.402569665	0	0	-12.13092	ENSG000001	51.44924507	100.0055458	0.514463919	-0.958858	RNF150	456.7666028	245.6286539	0.537755283	-0.894978
ENSG000002	4.402569665	0	0	-12.13092	OR52H1	25.72462253	50.00277291	0.514463919	-0.958858	ZNF774	149.6873686	80.49317374	0.537741925	-0.895014
MTND5P15	4.402569665	0	0	-12.13092	SKOR1	25.72462253	50.00277291	0.514463919	-0.958858	LETMD1	537.1134992	288.7796336	0.537651044	-0.895258
ENSG000002	4.402569665	0	0	-12.13092	RPL15P3	34.8527144	67.78153662	0.51419186	-0.959621	POLK	793.5631822	426.5308382	0.53748819	-0.895695
VPS51P2	4.402569665	0	0	-12.13092	DESI1	122.8143269	238.9021373	0.514077975	-0.959941	ZNF438	677.9957284	364.2938481	0.537309946	-0.896174
ENSG000002	4.402569665	0	0	-12.13092	ZNF132	122.8143269	238.9021373	0.514077975	-0.959941	L3MBTL2	417.1434758	224.053164	0.537112953	-0.896703
ENSG000002	4.402569665	0	0	-12.13092	MERTK	697.8841146	1357.853078	0.513961434	-0.960268	TRPM6	80.34689639	43.15097974	0.537058451	-0.896849
EMSLR	4.402569665	0	0	-12.13092	BACH1	1341.829504	2611.255919	0.513863653	-0.960542	ZNF189	975.1691808	523.6205426	0.536953539	-0.897131
ENSG000002	4.402569665	0	0	-12.13092	DIAPH2	698.7139411	1360.075423	0.51373176	-0.960913	TMCC1	1123.755907	603.2838898	0.536846023	-0.89742
ENSG000002	4.402569665	0	0	-12.13092	MDFI	18.25618373	35.55752741	0.513426694	-0.96177	RGS5	1394.513941	748.5035331	0.536748691	-0.897681
IQCA1-AS1	4.402569665	0	0	-12.13092	FFAR2	9.128091867	17.7787637	0.513426694	-0.96177	POM121	1524.389747	818.2089619	0.536745254	-0.897691
ENSG000002	4.402569665	0	0	-12.13092	SNX20	9.128091867	17.7787637	0.513426694	-0.96177	MOSPD3	114.4668113	61.40716347	0.536462602	-0.89845
KRT8P39	4.402569665	0	0	-12.13092	ENSG000002	9.128091867	17.7787637	0.513426694	-0.96177	PIK3CD	171.7002169	92.1107452	0.536462602	-0.89845
NEMP2-DT	4.402569665	0	0	-12.13092	LONP2	1787.446353	3482.41534	0.513277762	-0.962188	ADAMTS12	106.7623144	57.2580308	0.536313128	-0.898853
ENSG000002	4.402569665	0	0	-12.13092	LHFPL6	384.2096849	748.930421	0.513011188	-0.962938	ENSG000002	83.64882364	44.8106328	0.535699498	-0.900504
IFNA13	4.402569665	0	0	-12.13092	RNF217	76.34404107	148.897146	0.51273005	-0.963729	DIXDC1	402.8351244	215.7548987	0.535591078	-0.900796
LINC01503	4.402569665	0	0	-12.13092	DUSP2	38.17202053	74.44857301	0.51273005	-0.963729	BACE2	1007.087811	539.3872467	0.535591078	-0.900796
UBE2SP1	4.402569665	0	0	-12.13092	PIDD1	172.6039189	336.6853376	0.512656477	-0.963936	CHDH	220.1284833	117.8353677	0.535302683	-0.901573
GDI2P2	4.402569665	0	0	-12.13092	GOT2	395.8272564	772.2650483	0.512553633	-0.964225	RENBP	68.23982981	36.51236747	0.535059474	-0.902229
HCCS-DT	4.402569665	0	0	-12.13092	ZNF649	535.238114	1044.502368	0.512433605	-0.964563	ENSG000002	34.11991491	18.25618373	0.535059474	-0.902229
RPS27P4	4.402569665	0	0	-12.13092	VEGFC	79.6633472	155.5641824	0.512093118	-0.965522	NF2	943.2505508	504.5345323	0.5348892	-0.902688
RPL7AP16	4.402569665	0	0	-12.13092	LRRC61	39.8316736	77.7820912	0.512093118	-0.965522	MIB2	302.6766645	161.816174	0.534617276	-0.903422
RPL34-DT	4.402569665	0	0	-12.13092	PLEKHH3	392.5079503	766.7091847	0.5119385	-0.965958	ATPAF1	631.768747	337.7393991	0.534593395	-0.903486
SP2-AS1	4.402569665	0	0	-12.13092	ARHGDIA	1115.286861	2180.120899	0.511571107	-0.966993	TRIM25	930.0428418	497.0660935	0.53445505	-0.903859
ENSG000002	4.402569665	0	0	-12.13092	KANSL3	731.9070024	1431.190478	0.511397339	-0.967483	MPP7	967.4646839	516.9819303	0.534367754	-0.904095
IFNA17	4.402569665	0	0	-12.13092	HADH	324.4621745	634.4796297	0.511383123	-0.967524	ADGRE2	139.7815869	74.684388	0.534293462	-0.904296
SNTG2-AS1	4.402569665	0	0	-12.13092	SPTLC3	963.4286052	1884.548953	0.511225036	-0.96797	SLC25A30	192.6124229	102.8984901	0.534225615	-0.904479
PEF1-AS1	4.402569665	0	0	-12.13092	CAVIN2	95.43005134	186.6770189	0.511204067	-0.968029	GARNL3	766.0471217	409.1044809	0.534046104	-0.904964
ENSG000002	4.402569665	0	0	-12.13092	PLXDC1	118.6651943	232.2351009	0.510970107	-0.968689	PIGL	158.4925079	84.6423064	0.534046104	-0.904964
LINC01814	4.402569665	0	0	-12.13092	GSTO2	10.78774493	21.1122819	0.510970107	-0.968689	SDR39U1	335.695937	179.2425312	0.533943106	-0.905242
ENSG000002	4.402569665	0	0	-12.13092	SIT1	10.78774493	21.1122819	0.510970107	-0.968689	NRDC	3639.824471	1943.453741	0.533941611	-0.905246
ARL5AP2	4.402569665	0	0	-12.13092	CEP295NL	10.78774493	21.1122819	0.510970107	-0.968689	BASP1	275.1606041	146.8792964	0.533794788	-0.905643
ENSG000002	4.402569665	0	0	-12.13092	SLC30A10	10.78774493	21.1122819	0.510970107	-0.968689	PDE4DIP	836.4882364	446.446675	0.533715425	-0.905857
C4orf51	4.402569665	0	0	-12.13092	NXPE2	10.78774493	21.1122819	0.510970107	-0.968689	DNAH9	71.54175706	38.17202053	0.533562804	-0.90627
TUSC8	4.402569665	0	0	-12.13092	ATP6AP1	1754.253292	3434.634913	0.510753933	-0.9693	IL18BP	278.4625313	148.5389495	0.533425265	-0.906642
WAKMAR2	4.402569665	0	0	-12.13092	SDC4	516.9819303	1012.278358	0.510711235	-0.96942	ZNF717	729.725922	389.1886441	0.533335369	-0.906885
PARK7P2	4.402569665	0	0	-12.13092	GTPBP1	267.2041437	523.3623565	0.510552852	-0.969868	RFFL	361.0107125	192.5197557	0.533279897	-0.907035
EEF1A1P31	4.402569665	0	0	-12.13092	MLLT1	546.025859	1070.05934	0.510276242	-0.97065	TRADD	45.12633907	24.06496947	0.533279897	-0.907035
RPL23AP32	4.402569665	0	0	-12.13092	C19orf44	150.1986025	294.4607738	0.510080173	-0.971204	TUBG2	379.7216336	202.4776741	0.533226596	-0.907179
LINC01410	4.402569665	0	0	-12.13092	MIIP	116.1757147	227.7904099	0.510011439	-0.971398	ITPRIPL2	300.4753796	160.1565209	0.533010462	-0.907764
PRKAG2-AS	4.402569665	0	0	-12.13092	CPT1C	23.23514293	45.55808199	0.510011439	-0.971398	SIK2	1016.993593	541.8767263	0.532822163	-0.908274
ENSG000002	4.402569665	0	0	-12.13092	SIRT5	185.8811435	364.4646559	0.510011439	-0.971398	N4BP2L2	3639.824471	1939.304608	0.532801684	-0.908329
MYL6P4	4.402569665	0	0	-12.13092	HDAC11	128.6231127	252.23621	0.509931198	-0.971625	MRTFA	716.518213	381.7202053	0.5327432	-0.908488
LINC00886	4.402569665	0	0	-12.13092	VPS18	210.7759395	413.3562561	0.50991351	-0.971676	RALGAPB	7634.055799	4066.97984	0.532741697	-0.908492
HMGN1P8	4.402569665	0	0	-12.13092	APEH	398.316736	781.1544302	0.509907799	-0.971692	VPS16	592.14562	315.3340827	0.532527932	-0.909071
RPL21P48	4.402569665	0	0	-12.13092	TTLL1	117.8353677	231.1239281	0.509836297	-0.971894	TBC1D22A	685.7002254	365.1236747	0.532482944	-0.909193
POU5F1P6	4.402569665	0	0	-12.13092	DRAM1	58.91768387	115.5619641	0.509836297	-0.971894	HHIPL2	37.42184215	19.9158368	0.532198194	-0.909964
RPL17P47	4.402569665	0	0	-12.13092	ZNF513	403.2956952	791.1549848	0.509755614	-0.972122	TBX6	37.42184215	19.9158368	0.532198194	-0.909964
ENSG000002	4.402569665	0	0	-12.13092	ZNF414	144.3898168	283.3490465	0.509582858	-0.972611	VPS28	18.71092108	9.9579184	0.532198194	-0.909964
ENSG000002	4.402569665	0	0	-12.13092	SNX8	185.0513169	363.3534832	0.509287307	-0.973448	SLC45A2	18.71092108	9.9579184	0.532198194	-0.909964
RN7SL398P	4.402569665	0	0	-12.13092	EEFSEC	24.894796	48.89160018	0.509183498	-0.973742	KY	18.71092108	9.9579184	0.532198194	-0.909964

RN7SL396P	4.402569665	0	0	-12.13092	ZNF687	941.8531154	1850.102598	0.509081559	-0.974031	KBTBD12	18.71092108	9.9579184	0.532198194	-0.909964
NSMCE1-DT	4.402569665	0	0	-12.13092	RCN3	88.79143907	174.4541188	0.508967284	-0.974355	ANKRD20A8	18.71092108	9.9579184	0.532198194	-0.909964
RGMB-AS1	4.402569665	0	0	-12.13092	HPS4	445.6168484	875.6041124	0.508925029	-0.974475	ENSG000002	18.71092108	9.9579184	0.532198194	-0.909964
ENSG000002	4.402569665	0	0	-12.13092	TBC1D14	614.0716347	1206.733586	0.508870924	-0.974628	SCAPER	1249.229142	664.6910532	0.532080969	-0.910282
SDCBPP2	4.402569665	0	0	-12.13092	SRRM2	23211.90779	45614.7518	0.508868444	-0.974635	USP19	530.5096447	282.1410213	0.531830145	-0.910963
ENSG000002	4.402569665	0	0	-12.13092	MAML2	269.6936233	530.0293929	0.508827674	-0.974751	SCAP	1088.53535	578.3890938	0.531346174	-0.912276
HAS2-AS1	4.402569665	0	0	-12.13092	TBC1D8B	232.3514293	456.6919926	0.508770535	-0.974913	PMM2	741.8329886	394.1676033	0.531342781	-0.912285
ATP5MF-PTC	4.402569665	0	0	-12.13092	RGS22	90.45109214	177.787637	0.508759178	-0.974945	YTHDC1	193.7130653	102.8984901	0.531190243	-0.912699
SEMA6A-AS	4.402569665	0	0	-12.13092	KLHL3	78.00369414	153.3418369	0.508691533	-0.975137	NCOR2	7240.025814	3842.096849	0.530674468	-0.914101
ENSG000002	4.402569665	0	0	-12.13092	LRRC51	78.00369414	153.3418369	0.508691533	-0.975137	SRPRB	523.9057902	277.9918887	0.530614271	-0.914265
ATP5MGL	4.402569665	0	0	-12.13092	TRIM35	104.5581432	205.5669553	0.508633029	-0.975303	INTS11	653.7815953	346.8674909	0.530555607	-0.914424
C1QTNF7-AS	4.402569665	0	0	-12.13092	PNKP	526.1100222	1034.501813	0.508563654	-0.9755	CCDC157	59.43469048	31.53340827	0.530555607	-0.914424
LINC02405	4.402569665	0	0	-12.13092	CCDC71L	67.2159492	132.229555	0.508327727	-0.976169	NECTIN2	694.5053647	368.4429808	0.530511353	-0.914544
LINC01091	4.402569665	0	0	-12.13092	FN1	18917.55548	37219.84181	0.508265338	-0.976346	SELENBP1	482.0813783	255.5865723	0.530173086	-0.915465
ENSG000002	4.402569665	0	0	-12.13092	PKP1	40.66150013	80.00443666	0.508240566	-0.976417	RCAN2	281.7644586	149.368776	0.530119295	-0.915611
ZEB2P1	4.402569665	0	0	-12.13092	CRAMP1	125.3038065	246.6803464	0.507960234	-0.977213	CDPF1	40.7237694	21.57548987	0.529800905	-0.916478
LINC01018	4.402569665	0	0	-12.13092	TNFRSF18	14.10705107	27.77931829	0.507825675	-0.977595	COX19	92.45396297	48.95976547	0.529558322	-0.917139
ENSG000002	4.402569665	0	0	-12.13092	SIGLEC12	14.10705107	27.77931829	0.507825675	-0.977595	C15orf39	709.9143585	375.9114196	0.529516575	-0.917252
ENSG000002	4.402569665	0	0	-12.13092	STARD8	70.53525534	138.8965914	0.507825675	-0.977595	SEMA3D	391.8287002	207.4566333	0.529457473	-0.917413
ENSG000002	4.402569665	0	0	-12.13092	CD4	72.1949084	142.2301096	0.5075923	-0.978258	RABL2A	250.9464709	132.7722453	0.529085924	-0.918426
ENSG000002	4.402569665	0	0	-12.13092	REPIN1	424.8711851	837.8242395	0.507112548	-0.979622	DAPK1	1206.304088	638.1366042	0.529001444	-0.918656
RNA5SP92	4.402569665	0	0	-12.13092	SLC5A6	187.5407965	370.0205196	0.506838909	-0.980401	ZYG11A	368.7152095	195.0092353	0.528888503	-0.918964
RNU6-1136P	4.402569665	0	0	-12.13092	MLST8	378.4008992	746.7080755	0.506758815	-0.980629	DNAJC25	147.4860838	78.00369414	0.528888503	-0.918964
IGHV3-62	4.402569665	0	0	-12.13092	BMPER	33.19306133	65.55919115	0.506306755	-0.981916	SERP1	917.9357752	485.448522	0.528848025	-0.919075
LINC00293	4.402569665	0	0	-12.13092	FSCN2	33.19306133	65.55919115	0.506306755	-0.981916	VSIR	202.5182046	107.0476228	0.528582717	-0.919799
RAD21-AS1	4.402569665	0	0	-12.13092	GMEB2	151.8582556	300.0166375	0.506166114	-0.982317	TTC12	323.5888704	170.9442659	0.528276098	-0.920636
CYCSP23	4.402569665	0	0	-12.13092	LRIG1	237.3303885	468.9148927	0.506126788	-0.982429	CCNH	444.6595362	234.8409089	0.52813645	-0.921017
ENSG000002	4.402569665	0	0	-12.13092	NFIA	1180.01333	2332.351563	0.505932874	-0.982982	AFF1	3854.449742	2035.564486	0.528107674	-0.921096
ENSG000002	4.402569665	0	0	-12.13092	SEC14L5	34.8527144	68.89270935	0.505898443	-0.98308	MYCBP2	6554.325589	3461.206471	0.528079727	-0.921172
ENSG000002	4.402569665	0	0	-12.13092	ZNF775	34.8527144	68.89270935	0.505898443	-0.98308	ZNF775	66.03854498	34.8527144	0.527763209	-0.922037
SRI-AS1	4.402569665	0	0	-12.13092	PARP6	385.0395115	761.153321	0.505863275	-0.983181	PLD6	33.01927249	17.4263572	0.527763209	-0.922037
CASC19	4.402569665	0	0	-12.13092	ERN1	264.7146641	523.3623565	0.505796148	-0.983372	ATG9B	33.01927249	17.4263572	0.527763209	-0.922037
ENSG000002	4.402569665	0	0	-12.13092	SLC7A6	123.6441535	244.4580009	0.505788941	-0.983393	SYNGAP1	33.01927249	17.4263572	0.527763209	-0.922037
MYL12AP1	4.402569665	0	0	-12.13092	USP24	2232.233375	4413.578089	0.505765012	-0.983461	ENSG000002	33.01927249	17.4263572	0.527763209	-0.922037
ENSG000002	4.402569665	0	0	-12.13092	ITPRIPL2	160.1565209	316.6842285	0.505729388	-0.983562	CLEC5A	22.01284833	11.61757147	0.527763209	-0.922037
SUGT1P4-STI	4.402569665	0	0	-12.13092	APLP2	4313.43832	8529.361887	0.505716416	-0.983599	RPL17	22.01284833	11.61757147	0.527763209	-0.922037
NOX5	4.402569665	0	0	-12.13092	PLEKHB1	217.4145517	430.0238471	0.505587198	-0.983968	ENSG000002	22.01284833	11.61757147	0.527763209	-0.922037
CD44-AS1	4.402569665	0	0	-12.13092	TXNDC12	36.51236747	72.22622754	0.505527822	-0.984138	SLC25A12	11.00642416	5.808785734	0.527763209	-0.922037
CYP2A6	4.402569665	0	0	-12.13092	KLHL22	243.1391743	481.1377927	0.505342083	-0.984668	C22orf23	11.00642416	5.808785734	0.527763209	-0.922037
ENSG000002	4.402569665	0	0	-12.13092	NUBP2	206.6268068	408.9115652	0.505309276	-0.984761	ERCC5	11.00642416	5.808785734	0.527763209	-0.922037
TAS2R30	4.402569665	0	0	-12.13092	AKAP7	38.17202053	75.55974574	0.505189902	-0.985102	TAFA4	11.00642416	5.808785734	0.527763209	-0.922037
TSPAN9-IT1	4.402569665	0	0	-12.13092	RPL3	2750.874958	5446.96873	0.505028594	-0.985563	CNBD1	11.00642416	5.808785734	0.527763209	-0.922037
USP30-AS1	4.402569665	0	0	-12.13092	HIVEP2	1554.265097	3080.170812	0.504603541	-0.986778	HLA-DMA	11.00642416	5.808785734	0.527763209	-0.922037
ENSG000002	4.402569665	0	0	-12.13092	RPS8	789.9948598	1565.642379	0.504581934	-0.98684	KRT18P4	11.00642416	5.808785734	0.527763209	-0.922037
ENSG000002	4.402569665	0	0	-12.13092	DIP2A	1019.026983	2021.223198	0.50416351	-0.988036	STXBP5-AS1	11.00642416	5.808785734	0.527763209	-0.922037
PPP1R12A-A	4.402569665	0	0	-12.13092	ZFHX3-AS1	44.8106328	88.89381852	0.504091663	-0.988242	RAD21L1	11.00642416	5.808785734	0.527763209	-0.922037
PRDM4-AS1	4.402569665	0	0	-12.13092	INSRR	68.87560227	136.674246	0.503939874	-0.988676	CIRBP	1704.895103	899.5319622	0.527617189	-0.922437
LINC02207	4.402569665	0	0	-12.13092	BSDC1	487.1081751	966.7202764	0.503877065	-0.988856	EDC3	733.0278493	386.6991645	0.527536798	-0.922656
ENSG000002	4.402569665	0	0	-12.13092	RELA	755.1421454	1500.083187	0.503400179	-0.990222	TAB2	9013.160747	4753.246383	0.527367315	-0.92312
ENSG000002	4.402569665	0	0	-12.13092	HLA-B	512.0029711	1017.834222	0.50303179	-0.991279	CCNT1	1072.025713	565.1118692	0.52714395	-0.923731
ENSG000002	4.402569665	0	0	-12.13092	TUBGCP2	1186.651943	2359.019709	0.503027566	-0.991291	MTR	1492.471117	786.6755536	0.527095999	-0.923862
ENSG000002	4.402569665	0	0	-12.13092	ATAD1	29.04392867	57.78098203	0.502655504	-0.992358	C1QTNF1	91.35332055	48.12993894	0.526854838	-0.924523
ENSG000002	4.402569665	0	0	-12.13092	PICK1	145.2196433	288.9049102	0.502655504	-0.992358	CD99	80.34689639	42.3211532	0.526730404	-0.924863
HNRNPA1P5	4.402569665	0	0	-12.13092	GK5	266.3743172	530.0293929	0.50256518	-0.992617	HEYL	244.3426164	128.6231127	0.526404745	-0.925756
CERNA1	4.402569665	0	0	-12.13092	DDX17	4608.02674	9169.39738	0.50254412	-0.992678	PJVK	47.3276239	24.894796	0.526009843	-0.926838
HEATR3-AS1	4.402569665	0	0	-12.13092	CATSPERE	93.77039827	186.6770189	0.502313562	-0.99334	METTL2B	298.2740948	156.8372148	0.525815743	-0.927371
ENSG000002	4.402569665	0	0	-12.13092	HDAC6	1094.541198	2179.009726	0.502311295	-0.993346	FBXO44	83.64882364	43.98080627	0.525779137	-0.927471
TPRKBP2	4.402569665	0	0	-12.13092	CR1	127.7932861	254.4585555	0.502216504	-0.993619	ASXL3	156.2912231	82.1528268	0.525639413	-0.927855
CDH3-AS1	4.402569665	0	0	-12.13092	TUT7	1848.02369	3681.315259	0.502000932	-0.994238	TNRC6A	265.2548223	139.4108576	0.52557332	-0.928036
ENSG000002	4.402569665	0	0	-12.13092	MXRA7	68.04577574	135.5630732	0.501949197	-0.994387	C1QTNF6	72.64239948	38.17202053	0.52547852	-0.928296
ENSG000002	4.402569665	0	0	-12.13092	TLR3	34.02288787	67.78153662	0.501949197	-0.994387	SV2C	36.32119974	19.08601027	0.52547852	-0.928296
ENSG000002	4.402569665	0	0	-12.13092	TBC1D2	146.0494699	291.1272556	0.501668831	-0.995193	RSPO2	36.32119974	19.08601027	0.52547852	-0.928296
ENSG000002	4.402569665	0	0	-12.13092	CEP68	193.3495823	385.5769378	0.501455257	-0.995807	ACSS3	206.9207743	108.7072759	0.525356994	-0.92863
ENSG000002	4.402569665	0	0	-12.13092	TEX14	40.66150013	81.11560939	0.501278366	-0.996316	EEA1	3132.428317	1645.546016	0.525325993	-0.928715
LINC00621	4.402569665	0	0	-12.13092	ZNF865	335.2499195	668.9259843	0.501176404	-0.99661	CTSB	768.2484066	403.2956952	0.524954809	-0.929735
CTNS-AS1	4.402569665	0	0	-12.13092	NBPF1	128.6231127	256.680901	0.50110122	-0.996826	TTC8	1448.44542	760.1211046	0.524784085	-0.930204
MTCYBP33	4.402569665	0	0	-12.13092	MNT	737.7157882	1472.303869	0.501062181	-0.996938	CLNK	25.31477557	13.27722453	0.524485176	-0.931026
ENSG000002	4.402569665	0	0	-12.13092	RBPMS2	45.64045934	91.11616398	0.500904091	-0.997394	CYP2S1	25.31477557	13.27722453	0.524485176	-0.931026
NFE2L1-DT	4.402569665	0	0	-12.13092	FBXL18	187.5407965	374.4652105	0.500823017	-0.997627	ARAF	819.9786001	429.8501443	0.524221174	-0.931752
RNU4ATAC	4.402569665	0	0	-12.13092	SUFU	94.6002248	188.8993643	0.500796946	-0.997702	HPGDS	64.93790256	34.02288787	0.523929578	-0.932555
MIR4296	4.402569665	0	0	-12.13092	SUSD5	50.61941854	101.1167186	0.500603849	-0.998259	TYROBP	499.691657	261.395358	0.523113313	-0.934805
MIR3192	4.402569665	0	0	-12.13092	L3MBTL2	224.053164	447.8026108	0.50033912	-0.999022	RMDN3	176.1027866	92.1107452	0.523051037	-0.934976
ENSG000002	4.402569665	0	0	-12.13092	CLCN6	523.6205426	1046.724713	0.500246661	-0.999288	MACROD1	82.54818122	43.15097974	0.522736893	-0.935843
ARHGAP44-/	4.402569665	0	0	-12.13092	MPI	180.0723577	360.019965	0.500173255	-0.9995	NHERF2	566.8308444	296.2480724	0.522639294	-0.936112
MIR3918	4.402569665	0	0	-12.13092	PIGS	747.6737066	1495.638497	0.499902689	-1.000281	TAS2R5	111.164884	58.08785734	0.52253783	-0.936393
ENSG000002	4.402569665	0	0	-12.13092	HIVEP3	441.4677158	883.3823215	0.499747057	-1.00073	LYST	3940.29985	2057.139976	0.522077013	-0.937665
MIR3671	4.402569665	0	0	-12.13092	ZNF599	73.85456147	147.7859733	0.499739994	-1.00075	PUSL1	42.92505424	22.4053164	0.521963613	-0.937979
NDUFV2-AS	4.402569665	0	0	-12.13092	MIDN	298.737552	597.8109295	0.499719121	-1.000811	DPH1	314.7837311	164.3056536	0.521963613	-0.937979
ENSG000002	4.402569665	0	0	-12.13092	LETM1	387.5289911	775.5985665	0.499651505	-1.001006	LRMDA	28.61670282	14.9368776	0.521963613	-0.937979
ENSG000002	4.402569665	0	0	-12.13092	AXIN2	174.263572	348.9082377	0.499453877	-1.001577	MUSK	14.30835141	7.4684388	0.521963613	-0.937979
ENSG000002	4.402569665	0	0	-12.13092	BCAM	2099.461129	4203.566443	0.49944759	-1.001595	AURKC	14.30835141	7.4684388	0.521963613	-0.937979
ENSG000002	4.402569665	0	0	-12.13092	SLFN11	175.9232251	352.2417559	0.499438872	-1.00162	SLC35A1	14.30835141	7.4684388	0.521963613	-0.937979
ERVE-1	4.402569665	0	0	-12.13092	DPP9	643.1155634	1287.849196	0.499371794	-1.001814	MT1M	14.30835141	7.4684388	0.521963613	-0.937979
MIR924HG	4.402569665	0	0	-12.13092	RNF11	301.2270316	603.3667932	0.499243636	-1.002184	EIF2AK3-DT	14.30835141	7.4684388	0.521963613	-0.937979
ENSG000002	4.402569665	0	0	-12.13092	UBE3B	850.5721967	1704.53897	0.499004254	-1.002876	DDX60L	489.7858753	255.5865723	0.521833285	-0.938339
ENSG000002	4.402569665	0	0	-12.13092	PTK2B	185.0513169	371.1316923	0.498613621	-1.004006	TFAP2C	350.0042884	182.5618373	0.521598859	-0.938987
ENSG000002	4.402569665	0	0	-12.13092	ZDHHC14	241.4795212	484.4713109	0.498439259	-1.00451	PKIG	292.7708827	152.6880821	0.521527553	-0.939185
ENSG000002	4.402569665	0	0	-12.13092	RHOB	874.6371662	1755.652916	0.498183416	-1.005251	SPATA2	367.614567	191.6899292	0.521442691	-0.939419
ENSG000002	4.402569665	0	0	-12.13092	RCBTB1	462.2133791	927.8292308	0.498166434	-1.0053	IFNGR2	89.15203572	46.47028587	0.521247614	-0.939959
ENSG000002	4.402569665	0	0	-12.13092	CDC42EP1	54.7685512	110.0061004	0.497868309	-1.006164	PRKAR2A	691.2034374	360.1447155	0.521040111	-0.940534
ENSG000002	4.402569665	0	0	-12.13092	RENBP	36.51236747	73.33740027	0.497868309	-1.006164	HHIPL1	60.5353329	31.53340827	0.520909141	-0.940896
ENSG000002	4.402569665	0	0	-12.13092	ALOX12B	18.25618373	36.66870014	0.497868309	-1.006164	BAIAP2	583.3404806	303.7165112	0.520650497	-0.941613
ENSG000002	4.402569665	0	0	-12.13092	NPEPL1	18.25618373	36.66870014	0.497868309	-1.006164	BTF3L4P2	46.22698148	24.06496947	0.520582757	-0.941801
GOLGA4-AS	4.402569665	0	0	-12.13092	METTL25	134.4318984	270.0149737	0.497868309	-1.006164	KCTD7	110.0642416	57.2580308	0.520223734	-0.942796
ENSG000002	4.402569665	0	0	-12.13092	APOL6	48.12993894	96.67202764	0.497868309	-1.006164	VWA1	127.6745203	66.38612267	0.519963753	-0.943517
TAF15	4.402569665	0	0	-12.13092	MSS51	38.17202053	76.67091847	0.497868309	-1.006164	MDGA2	31.91863007	16.59653067	0.519963753	-0.943517
ENSG000002	4.402569665	0	0	-12.13092	MYCBPAP	24.894796	50.00277291	0.497868309	-1.006164	CNPY2	31.91863007	16.59653067	0.519963753	-0.943517
ENSG000002	4.402569665	0	0	-12.13092	BANK1	24.894796	50.00277291	0.497868309	-1.006164	PIK3R6	31.91863007	16.59653067	0.519963753	-0.943517
ENSG000002	4.402569665	0	0	-12.13092	HRCT1	19.9158368	40.00221833	0.497868309	-1.006164	BCL7B	467.7730269	243.1391743	0.519780236	-0.944026
SNORA35B	4.402569665	0	0	-12.13092	SMIM10L2B	9.9579184	20.00110917	0.497868309	-1.006164	WASHC4	2153.957209	1119.435994	0.519711343	-0.944218
GOLPH3-DT	4.402569665	0	0	-12.13092	C8orf58	9.9579184	20.00110917	0.497868309	-1.006164	THRA	680.1970133	353.5061032	0.519711343	-0.944218

ENSG000002	4.402569665	0	0	-12.13092	TUBA1B-AS	9.9579184	20.00110917	0.497868309	-1.006164	APBA1	81.44753881	42.3211532	0.519612426	-0.944492
ENSG000002	4.402569665	0	0	-12.13092	AQP8	4.9789592	10.00055458	0.497868309	-1.006164	ARHGEF9	810.0728184	420.7220524	0.519363251	-0.945184
ENSG000002	4.402569665	0	0	-12.13092	ACTG2	4.9789592	10.00055458	0.497868309	-1.006164	EIF3L	1439.640281	747.6737066	0.519347588	-0.945228
ENSG000002	4.402569665	0	0	-12.13092	C1QTNF7	4.9789592	10.00055458	0.497868309	-1.006164	TNFRSF10B	102.3597447	53.10889814	0.518845551	-0.946623
ENSG000002	4.402569665	0	0	-12.13092	VEGFD	4.9789592	10.00055458	0.497868309	-1.006164	SPG11	3118.119965	1616.502087	0.518422032	-0.947801
ENSG000002	4.402569665	0	0	-12.13092	LIPC	4.9789592	10.00055458	0.497868309	-1.006164	ENSG000002	35.22055732	18.25618373	0.518338866	-0.948033
ENSG000002	4.402569665	0	0	-12.13092	TMC4	4.9789592	10.00055458	0.497868309	-1.006164	SIGLEC8	17.61027866	9.128091867	0.518338866	-0.948033
H3-3A-DT	4.402569665	0	0	-12.13092	MAJIN	4.9789592	10.00055458	0.497868309	-1.006164	COL9A1	17.61027866	9.128091867	0.518338866	-0.948033
KRTAP10-7	4.402569665	0	0	-12.13092	CYTL1	4.9789592	10.00055458	0.497868309	-1.006164	SYCP2L	17.61027866	9.128091867	0.518338866	-0.948033
ENSG000002	4.402569665	0	0	-12.13092	CTSW	4.9789592	10.00055458	0.497868309	-1.006164	SUSD3	17.61027866	9.128091867	0.518338866	-0.948033
ENSG000002	4.402569665	0	0	-12.13092	KCNJ5-AS1	4.9789592	10.00055458	0.497868309	-1.006164	CCDC89	17.61027866	9.128091867	0.518338866	-0.948033
TBC1D8-AS1	4.402569665	0	0	-12.13092	OVCH2	4.9789592	10.00055458	0.497868309	-1.006164	SEC24B	2741.700259	1420.663025	0.518168615	-0.948506
ENSG000002	4.402569665	0	0	-12.13092	ARPC1AP3	4.9789592	10.00055458	0.497868309	-1.006164	PPP1R13B	2207.888687	1143.500963	0.517916039	-0.94921
ENSG000002	4.402569665	0	0	-12.13092	HADHAP2	4.9789592	10.00055458	0.497868309	-1.006164	EOGT	618.561038	320.3130419	0.517835787	-0.949433
ENSG000002	4.402569665	0	0	-12.13092	LINC00639	4.9789592	10.00055458	0.497868309	-1.006164	RGS2	466.6723845	241.4795212	0.517449777	-0.950509
ENSG000002	4.402569665	0	0	-12.13092	ENSG000002	4.9789592	10.00055458	0.497868309	-1.006164	FOLR2	112.2655265	58.08785734	0.517414911	-0.950606
ENSG000002	4.402569665	0	0	-12.13092	NDUFB4P12	11.61757147	23.33462736	0.497868309	-1.006164	USF1	420.445403	217.4145517	0.517105313	-0.95147
ENSG000002	4.402569665	0	0	-12.13092	SVIP	11.61757147	23.33462736	0.497868309	-1.006164	MAN2B1	679.0963709	351.0166236	0.516887792	-0.952077
ENSG000002	4.402569665	0	0	-12.13092	MYH3	350.1867971	703.372339	0.497868309	-1.006164	MYADM	895.9229269	463.0432056	0.51683375	-0.952228
ENSG000002	4.402569665	0	0	-12.13092	RBM20	26.55444907	53.33629111	0.497868309	-1.006164	TANC1	3355.858727	1734.337455	0.51680884	-0.952297
SEC22B3P	4.402569665	0	0	-12.13092	TPRG1	13.27722453	26.66814555	0.497868309	-1.006164	SEC16A	7345.687486	3794.796737	0.516601985	-0.952875
ENSG000002	4.402569665	0	0	-12.13092	UPK3BL3P	13.27722453	26.66814555	0.497868309	-1.006164	SLC7A9	20.91220591	10.78774493	0.515858776	-0.954952
H4C7	4.402569665	0	0	-12.13092	IL37	6.638612267	13.33407278	0.497868309	-1.006164	DDIT4L	20.91220591	10.78774493	0.515858776	-0.954952
ENSG000002	4.402569665	0	0	-12.13092	CXCL14	6.638612267	13.33407278	0.497868309	-1.006164	CCNO	20.91220591	10.78774493	0.515858776	-0.954952
ENSG000002	4.402569665	0	0	-12.13092	DNALI1	6.638612267	13.33407278	0.497868309	-1.006164	ADGRE1	20.91220591	10.78774493	0.515858776	-0.954952
ENSG000002	4.402569665	0	0	-12.13092	TEX22	6.638612267	13.33407278	0.497868309	-1.006164	EIF3LP2	20.91220591	10.78774493	0.515858776	-0.954952
ENSG000002	4.402569665	0	0	-12.13092	CAP1P1	6.638612267	13.33407278	0.497868309	-1.006164	ENSG000002	20.91220591	10.78774493	0.515858776	-0.954952
ENSG000002	4.402569665	0	0	-12.13092	PGLYRP1	3.319306133	6.667036389	0.497868309	-1.006164	DNAJB9	358.8094277	185.0513169	0.515737053	-0.955292
ENSG000002	4.402569665	0	0	-12.13092	CCN5	3.319306133	6.667036389	0.497868309	-1.006164	ARRDC4	296.07281	152.6880821	0.515711261	-0.955365
ENSG000002	4.402569665	0	0	-12.13092	SPP2	3.319306133	6.667036389	0.497868309	-1.006164	SETD2	9229.987303	4759.884995	0.515697892	-0.955402
CHD9NB	4.402569665	0	0	-12.13092	CPB2	3.319306133	6.667036389	0.497868309	-1.006164	FGFR2	1146.869398	590.8364918	0.5151733	-0.95687
ENSG000002	4.402569665	0	0	-12.13092	OSM	3.319306133	6.667036389	0.497868309	-1.006164	SGMS1	486.483948	250.6076131	0.515140559	-0.956962
ENSG000002	4.402569665	0	0	-12.13092	FOXF1	3.319306133	6.667036389	0.497868309	-1.006164	RIPK4	531.6102871	273.842756	0.51511937	-0.957021
U2.1	4.402569665	0	0	-12.13092	PKD2L1	3.319306133	6.667036389	0.497868309	-1.006164	ELMOD3	183.8072835	94.6002248	0.514670708	-0.958278
ENSG000002	4.402569665	0	0	-12.13092	ENSG000001	3.319306133	6.667036389	0.497868309	-1.006164	TLE3	2284.933656	1175.864198	0.514616341	-0.958431
C18orf15	4.402569665	0	0	-12.13092	CHRNA2	3.319306133	6.667036389	0.497868309	-1.006164	ANKS1A	1015.89295	522.790716	0.514612013	-0.958443
ENSG000002	4.402569665	0	0	-12.13092	ZBP1	3.319306133	6.667036389	0.497868309	-1.006164	LIX1L	187.1092108	96.25987787	0.514458254	-0.958874
ENSG000002	4.402569665	0	0	-12.13092	CCDC54	3.319306133	6.667036389	0.497868309	-1.006164	RASSF3	304.8779493	156.8372148	0.514426232	-0.958964
ENSG000002	4.402569665	0	0	-12.13092	SRRM4	3.319306133	6.667036389	0.497868309	-1.006164	AKNA	979.5717505	503.7047058	0.514209097	-0.959573
ENSG000002	4.402569665	0	0	-12.13092	MS4A3	3.319306133	6.667036389	0.497868309	-1.006164	DCP1A	695.6060071	357.6552359	0.514163524	-0.959701
ENSG000002	4.402569665	0	0	-12.13092	KCNJ16	3.319306133	6.667036389	0.497868309	-1.006164	HTR2B	48.42826632	24.894796	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	CXCL5	3.319306133	6.667036389	0.497868309	-1.006164	DNASE1L2	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	CAMP	3.319306133	6.667036389	0.497868309	-1.006164	NAIP	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	SSX3	3.319306133	6.667036389	0.497868309	-1.006164	MAILR	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	CSDC2	3.319306133	6.667036389	0.497868309	-1.006164	ENSG000002	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	MUC13	3.319306133	6.667036389	0.497868309	-1.006164	ENSG000002	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	KCNG2	3.319306133	6.667036389	0.497868309	-1.006164	NSUN5P1	24.21413316	12.447398	0.514055073	-0.960005
ENSG000002	4.402569665	0	0	-12.13092	RPRML	3.319306133	6.667036389	0.497868309	-1.006164	RASSF4	200.3169198	102.8984901	0.513678476	-0.961062
ENSG000002	4.402569665	0	0	-12.13092	MRGPRX4	3.319306133	6.667036389	0.497868309	-1.006164	PEX6	379.7216336	195.0092353	0.513558402	-0.9614
IGHV1-69D	4.402569665	0	0	-12.13092	DIP2C-AS1	3.319306133	6.667036389	0.497868309	-1.006164	TENT5C	455.6659603	234.0110824	0.513558402	-0.9614
ENSG000002	4.402569665	0	0	-12.13092	SFTPA2	3.319306133	6.667036389	0.497868309	-1.006164	RMDN2	182.7066411	93.77039827	0.513229282	-0.962325
ENSG000002	4.402569665	0	0	-12.13092	AMTN	3.319306133	6.667036389	0.497868309	-1.006164	NACA	3246.895128	1666.291679	0.513195411	-0.96242
LINC01012	4.402569665	0	0	-12.13092	SLC18A3	3.319306133	6.667036389	0.497868309	-1.006164	GNA12	616.3597531	316.1639092	0.512953527	-0.9631
DPRXP3	4.402569665	0	0	-12.13092	ALOX15P2	3.319306133	6.667036389	0.497868309	-1.006164	CLBA1	216.826556	111.1967555	0.512837346	-0.963427
BISPR	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	ANKRD13A	1124.856549	576.7294407	0.512713769	-0.963774
ENSG000002	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	UBASH3B	55.03212081	28.21410213	0.51268426	-0.963857
ENSG000002	4.402569665	0	0	-12.13092	PPP1R8P1	3.319306133	6.667036389	0.497868309	-1.006164	ENSG000002	27.51606041	14.10705107	0.51268426	-0.963857
ENSG000002	4.402569665	0	0	-12.13092	PROSER2-A	3.319306133	6.667036389	0.497868309	-1.006164	ZNF169	195.9143501	100.4090105	0.512514834	-0.964334
ENSG000002	4.402569665	0	0	-12.13092	TLK1P1	3.319306133	6.667036389	0.497868309	-1.006164	ENOSF1	1040.107083	532.7486344	0.512205563	-0.965205
ENSG000002	4.402569665	0	0	-12.13092	RPSAP8	3.319306133	6.667036389	0.497868309	-1.006164	WASL	1252.53107	641.4559103	0.512127743	-0.965424
PCSEAT	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	KCNJ2	116.6680961	59.7475104	0.512115243	-0.96546
ENSG000002	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	CHORDC1	58.33404806	29.8737552	0.512115243	-0.96546
ENSG000002	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	TTC14	757.2419824	387.5289911	0.511763743	-0.96645
ENSG000002	4.402569665	0	0	-12.13092	ENSG000003	3.319306133	6.667036389	0.497868309	-1.006164	PPP1R13L	613.0578259	313.6744296	0.511655535	-0.966755
ENSG000002	4.402569665	0	0	-12.13092	HDAC10	1.659653067	3.333518194	0.497868309	-1.006164	MOGS	400.6338395	204.9671537	0.511607192	-0.966892
ENSG000002	4.402569665	0	0	-12.13092	GOLGA8UP	1.659653067	3.333518194	0.497868309	-1.006164	CLEC12A	30.81798766	15.76670413	0.511607192	-0.966892
ENSG000002	4.402569665	0	0	-12.13092	PPY	1.659653067	3.333518194	0.497868309	-1.006164	PELI3	154.0899383	78.83352067	0.511607192	-0.966892
ENSG000002	4.402569665	0	0	-12.13092	GRK7	1.659653067	3.333518194	0.497868309	-1.006164	NFKBIA	1020.29552	521.9608895	0.511578145	-0.966973
ENSG000002	4.402569665	0	0	-12.13092	GCG	1.659653067	3.333518194	0.497868309	-1.006164	NR1H3	201.4175622	102.8984901	0.51087149	-0.968968
ENSG000002	4.402569665	0	0	-12.13092	NPHS2	1.659653067	3.333518194	0.497868309	-1.006164	LINC01106	34.11991491	17.4263572	0.510738589	-0.969343
ENSG000002	4.402569665	0	0	-12.13092	PROZ	1.659653067	3.333518194	0.497868309	-1.006164	TBRG1	245.4432588	125.3038065	0.510520465	-0.969959
ENSG000002	4.402569665	0	0	-12.13092	MNX1	1.659653067	3.333518194	0.497868309	-1.006164	PPARD	562.4282747	287.1199805	0.510500616	-0.970015
ENSG000002	4.402569665	0	0	-12.13092	APCS	1.659653067	3.333518194	0.497868309	-1.006164	SLC25A16	606.4539714	309.5252969	0.510385473	-0.970341
ENSG000002	4.402569665	0	0	-12.13092	REG4	1.659653067	3.333518194	0.497868309	-1.006164	SC5D	1757.725939	897.0424826	0.510342632	-0.970462
ENSG000002	4.402569665	0	0	-12.13092	GPR17	1.659653067	3.333518194	0.497868309	-1.006164	TMED3	725.3233523	370.1026339	0.510258814	-0.970699
ENSG000002	4.402569665	0	0	-12.13092	CYLC2	1.659653067	3.333518194	0.497868309	-1.006164	GAS2L1	183.8072835	93.77039827	0.510156053	-0.970989
ENSG000002	4.402569665	0	0	-12.13092	MYL3	1.659653067	3.333518194	0.497868309	-1.006164	UST	221.2291257	112.8564085	0.510133592	-0.971053
ENSG000002	4.402569665	0	0	-12.13092	GABRG1	1.659653067	3.333518194	0.497868309	-1.006164	TET2	3770.800918	1923.537904	0.510113885	-0.971109
ENSG000002	4.402569665	0	0	-12.13092	SERPINB12	1.659653067	3.333518194	0.497868309	-1.006164	GARS1-DT	187.1092108	95.43005134	0.510023269	-0.971365
ENSG000002	4.402569665	0	0	-12.13092	TAS1R3	1.659653067	3.333518194	0.497868309	-1.006164	TSPAN31	156.2912231	79.6633472	0.509710946	-0.972249
ENSG000002	4.402569665	0	0	-12.13092	SPDYE5	1.659653067	3.333518194	0.497868309	-1.006164	TRPV4	122.1713082	62.23699	0.509423947	-0.973061
ENSG000002	4.402569665	0	0	-12.13092	KRT78	1.659653067	3.333518194	0.497868309	-1.006164	CD72	40.7237694	20.74566333	0.509423947	-0.973061
ENSG000002	4.402569665	0	0	-12.13092	KISS1	1.659653067	3.333518194	0.497868309	-1.006164	ARHGAP23	40.7237694	20.74566333	0.509423947	-0.973061
ENSG000002	4.402569665	0	0	-12.13092	ZBTB8OSP2	1.659653067	3.333518194	0.497868309	-1.006164	CTSC	1398.916511	711.9911656	0.508959012	-0.974379
ENSG000002	4.402569665	0	0	-12.13092	ZNF80	1.659653067	3.333518194	0.497868309	-1.006164	RABL2B	182.7066411	92.94057174	0.50868743	-0.975149
ENSG000002	4.402569665	0	0	-12.13092	TIGD5	1.659653067	3.333518194	0.497868309	-1.006164	TCEANC2	91.35332055	46.47028587	0.50868743	-0.975149
ENSG000002	4.402569665	0	0	-12.13092	SRPK3	1.659653067	3.333518194	0.497868309	-1.006164	ZNF615	1052.21415	535.238114	0.508677928	-0.975176
ENSG000002	4.402569665	0	0	-12.13092	SRY	1.659653067	3.333518194	0.497868309	-1.006164	ROR2	460.06853	234.0110824	0.508643967	-0.975272
ENSG000002	4.402569665	0	0	-12.13092	NT5C1B	1.659653067	3.333518194	0.497868309	-1.006164	ABCA5	1122.655265	570.920655	0.508544941	-0.975553
ENSG000002	4.402569665	0	0	-12.13092	PROS2P	1.659653067	3.333518194	0.497868309	-1.006164	GPR75	283.9657434	144.3898168	0.508476181	-0.975748
ENSG000002	4.402569665	0	0	-12.13092	SPATA31D4	1.659653067	3.333518194	0.497868309	-1.006164	MICALL1	236.6381195	120.3248473	0.508476181	-0.975748
ENSG000002	4.402569665	0	0	-12.13092	OR51D1	1.659653067	3.333518194	0.497868309	-1.006164	LAMC3	145.284799	73.85456147	0.50834335	-0.976125
ENSG000002	4.402569665	0	0	-12.13092	KEL	1.659653067	3.333518194	0.497868309	-1.006164	PDE1A	50.62955115	25.72462253	0.508095015	-0.97683
CATSPER2P1	4.402569665	0	0	-12.13092	TXNDC8	1.659653067	3.333518194	0.497868309	-1.006164	TRA2A	2085.717379	1059.688483	0.508069067	-0.976903
ZNF300P1	4.402569665	0	0	-12.13092	TMEM235	1.659653067	3.333518194	0.497868309	-1.006164	HELQ	691.2034374	351.0166236	0.507834025	-0.977571
ENSG000002	4.402569665	0	0	-12.13092	ZNF32-AS1	1.659653067	3.333518194	0.497868309	-1.006164	SYCE1L	53.9314784	27.3842756	0.507760522	-0.97778
SMG1P7.1	4.402569665	0	0	-12.13092	ZMYM4-AS	1.659653067	3.333518194	0.497868309	-1.006164	CR1	252.0471133	127.7932861	0.507021423	-0.979881
MYH16	3.301927249	0	0	-12.13092	HNRNPA3P2	1.659653067	3.333518194	0.497868309	-1.006164	CD55	701.1092192	355.1657563	0.506576931	-0.981147
GSC2	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	FOXJ3	5152.107151	2609.804447	0.506550887	-0.981221
TMEM131	3.301927249	0	0	-12.13092	TSEN15P1	1.659653067	3.333518194	0.497868309	-1.006164	CAPN13	217.9271984	110.3669289	0.506439443	-0.981538
TUBA3D	3.301927249	0	0	-12.13092	UBE2R2-AS	1.659653067	3.333518194	0.497868309	-1.006164	SNAPC5	147.4860838	74.684388	0.50638261	-0.9817

FLT3LG	3.301927249	0	0	-12.13092	RPS2P7	1.659653067	3.333518194	0.497868309	-1.006164	GTF2I	1635.554631	828.1668803	0.506352319	-0.981787
AMELY	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	LRCH4	227.8329802	115.3458881	0.506273886	-0.98201
CDHR5	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	MARCHF1	77.04496914	39.00184707	0.506221853	-0.982158
TCL1A	3.301927249	0	0	-12.13092	RNF223	1.659653067	3.333518194	0.497868309	-1.006164	TYW1	1008.188453	510.343318	0.506198337	-0.982225
LILRB1	3.301927249	0	0	-12.13092	ASB14	1.659653067	3.333518194	0.497868309	-1.006164	FAM98A	716.518213	362.6341951	0.50610604	-0.982488
ANKRD7	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	MB	80.34689639	40.66150013	0.50607431	-0.982579
CRHR2	3.301927249	0	0	-12.13092	RN7SL735P	1.659653067	3.333518194	0.497868309	-1.006164	DENND1B	646.0770984	326.9516541	0.506056715	-0.982629
CCL8	3.301927249	0	0	-12.13092	CTNNA1P1	1.659653067	3.333518194	0.497868309	-1.006164	NECTIN3	916.8351328	463.8730322	0.505950324	-0.982932
HSD17B1P1	3.301927249	0	0	-12.13092	TRIM51CP	1.659653067	3.333518194	0.497868309	-1.006164	NHERF1	683.4989405	345.2078379	0.5050598	-0.985474
DBX1	3.301927249	0	0	-12.13092	PIGFP1	1.659653067	3.333518194	0.497868309	-1.006164	NCDN	356.6081429	180.0723577	0.504958626	-0.985763
IL5	3.301927249	0	0	-12.13092	RBPMS-AS1	1.659653067	3.333518194	0.497868309	-1.006164	C1QC	1372.501093	692.9051554	0.504848527	-0.986078
NEU2	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	GNG12	442.4582514	223.2233375	0.504507119	-0.987053
PDC	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	MMP19	159.5931504	80.49317374	0.50436484	-0.98746
PMS2P5	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	GORASP1	325.7901552	164.3056536	0.504329707	-0.987561
TP53TG5	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	RSU1	830.9850243	419.0623993	0.504295971	-0.987657
CFP	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	FAM184A	348.903646	175.9232251	0.504217216	-0.987883
IGLL1	3.301927249	0	0	-12.13092	TAT-AS1	1.659653067	3.333518194	0.497868309	-1.006164	ZMIZ2	1973.451852	994.9620135	0.504173442	-0.988008
GMFG	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	METTL1	202.5182046	102.0686636	0.503997474	-0.988512
CHST5	3.301927249	0	0	-12.13092	FSCN1P1	1.659653067	3.333518194	0.497868309	-1.006164	LGR4	994.9807443	501.2152262	0.503743644	-0.989238
GPR45	3.301927249	0	0	-12.13092	DPY19L3-D	1.659653067	3.333518194	0.497868309	-1.006164	ZNRF3	255.3490406	128.6231127	0.503714885	-0.989321
CNMD	3.301927249	0	0	-12.13092	CYP4F24P	1.659653067	3.333518194	0.497868309	-1.006164	RCHY1	331.2933673	166.7951332	0.503466564	-0.990032
BTG4	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	ATP7A	1448.44542	728.5876963	0.503013566	-0.991331
CELA1	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	ENSG000002	132.07709	66.38612267	0.502631627	-0.992427
RDH12	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	CCL24	16.50963624	8.298265334	0.502631627	-0.992427
MMEL1	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	CDK15	16.50963624	8.298265334	0.502631627	-0.992427
BHMT	3.301927249	0	0	-12.13092	ENSG000002	1.659653067	3.333518194	0.497868309	-1.006164	LRRC2	16.50963624	8.298265334	0.502631627	-0.992427
LINC01558	3.301927249	0	0	-12.13092	VPS16	315.3340827	633.3684569	0.497868309	-1.006164	OVOL1	16.50963624	8.298265334	0.502631627	-0.992427
OOSP2	3.301927249	0	0	-12.13092	ARHGAP27I	8.298265334	16.66759097	0.497868309	-1.006164	GALT	16.50963624	8.298265334	0.502631627	-0.992427
C2orf50	3.301927249	0	0	-12.13092	RPL21P16	8.298265334	16.66759097	0.497868309	-1.006164	DBNDD2	16.50963624	8.298265334	0.502631627	-0.992427
MAGED4	3.301927249	0	0	-12.13092	SPAG5-AS1	8.298265334	16.66759097	0.497868309	-1.006164	ENSG000002	16.50963624	8.298265334	0.502631627	-0.992427
CCDC144BP	3.301927249	0	0	-12.13092	LONRF1	14.9368776	30.00166375	0.497868309	-1.006164	ADARB1	855.1991575	429.8501443	0.502631627	-0.992427
OTOA	3.301927249	0	0	-12.13092	KRT8P3	14.9368776	30.00166375	0.497868309	-1.006164	S100A4	151.8886534	76.34404107	0.502631627	-0.992427
KLHL40	3.301927249	0	0	-12.13092	RPAP3-DT	14.9368776	30.00166375	0.497868309	-1.006164	CLIC5	36.32119974	18.25618373	0.502631627	-0.992427
CYP3A7	3.301927249	0	0	-12.13092	NHSL2	248.94796	500.0277291	0.497868309	-1.006164	SCEL	23.11349074	11.61757147	0.502631627	-0.992427
AQP5	3.301927249	0	0	-12.13092	CYP1B1	574.2399611	1154.508468	0.497389129	-1.007553	ENSG000002	23.11349074	11.61757147	0.502631627	-0.992427
BSND	3.301927249	0	0	-12.13092	NUCB1	1351.787423	2717.928501	0.497359449	-1.007639	AQP11	92.45396297	46.47028587	0.502631627	-0.992427
C4orf45	3.301927249	0	0	-12.13092	YBX3	689.5858492	1386.743569	0.49726991	-1.007899	HHLA3	52.83083598	26.55444907	0.502631627	-0.992427
NSG2	3.301927249	0	0	-12.13092	USP4	434.8291035	874.4929396	0.497235694	-1.007998	LONRF1	29.71734524	14.9368776	0.502631627	-0.992427
HOXD12	3.301927249	0	0	-12.13092	SCCPDH	1026.495422	2064.558935	0.497198411	-1.008106	ABCB6	19.81156349	9.9579184	0.502631627	-0.992427
ELP5	3.301927249	0	0	-12.13092	SPG11	1616.502087	3251.291412	0.497187696	-1.008138	ANKDD1B	19.81156349	9.9579184	0.502631627	-0.992427
KRT6C	3.301927249	0	0	-12.13092	TTC28	667.1805328	1342.29666	0.497044024	-1.008554	NOP2	9.905781747	4.9789592	0.502631627	-0.992427
OR4D5	3.301927249	0	0	-12.13092	SPTBN4	151.8582556	305.5725011	0.496963094	-1.008789	XPNPEP2	9.905781747	4.9789592	0.502631627	-0.992427
PATE1	3.301927249	0	0	-12.13092	ZNF79	141.9003372	285.571392	0.496899694	-1.008973	ABHD12B	9.905781747	4.9789592	0.502631627	-0.992427
MOS	3.301927249	0	0	-12.13092	GOLGA3	1677.90925	3376.853931	0.496885351	-1.009015	MMP3	9.905781747	4.9789592	0.502631627	-0.992427
CCDC63	3.301927249	0	0	-12.13092	DENND10	258.9058784	521.140011	0.496806756	-1.009243	GABRA2	9.905781747	4.9789592	0.502631627	-0.992427
APOBEC4	3.301927249	0	0	-12.13092	MRPL41	197.4987149	397.7998379	0.496477615	-1.010199	C8A	9.905781747	4.9789592	0.502631627	-0.992427
C1orf100	3.301927249	0	0	-12.13092	THAP3	73.85456147	148.897146	0.496010592	-1.011557	ETNPPL	9.905781747	4.9789592	0.502631627	-0.992427
STARD6	3.301927249	0	0	-12.13092	LRP11	62.23699	125.5625187	0.495665352	-1.012562	NHERF4	9.905781747	4.9789592	0.502631627	-0.992427
OR10AG1	3.301927249	0	0	-12.13092	KCNQ3	55.59837774	112.2284459	0.495403614	-1.013324	SLC22A13	9.905781747	4.9789592	0.502631627	-0.992427
ANKRD30BP	3.301927249	0	0	-12.13092	LPAR2	153.5179087	310.0171921	0.495191598	-1.013941	C8orf33	9.905781747	4.9789592	0.502631627	-0.992427
CST6	3.301927249	0	0	-12.13092	SHROOM2	540.2170732	1091.171622	0.495079841	-1.014267	NLRP9	9.905781747	4.9789592	0.502631627	-0.992427
OR4F17	3.301927249	0	0	-12.13092	SOGA1	1320.254015	2666.814555	0.4950678	-1.014302	OR5D14	9.905781747	4.9789592	0.502631627	-0.992427
OR7A15P	3.301927249	0	0	-12.13092	ABCF3	383.3798584	774.4873938	0.495011102	-1.014467	WASF4P	9.905781747	4.9789592	0.502631627	-0.992427
FAM9B	3.301927249	0	0	-12.13092	POLL	86.30195947	174.4541188	0.494697173	-1.015382	FAM78B	9.905781747	4.9789592	0.502631627	-0.992427
LINC02904	3.301927249	0	0	-12.13092	RIMS4	81.32300027	164.4535643	0.494504334	-1.015945	FSIP2-AS2	9.905781747	4.9789592	0.502631627	-0.992427
TMEM78	3.301927249	0	0	-12.13092	S100A11	482.9590424	976.7208309	0.494469891	-1.016045	RPS3P2	9.905781747	4.9789592	0.502631627	-0.992427
NEUROG2	3.301927249	0	0	-12.13092	EPN1	762.6105842	1542.307751	0.494460709	-1.016072	TSPAN19	9.905781747	4.9789592	0.502631627	-0.992427
C10orf53	3.301927249	0	0	-12.13092	SLC35A4	157.6670413	318.9065739	0.494398844	-1.016253	ENSG000002	9.905781747	4.9789592	0.502631627	-0.992427
GPBAR1	3.301927249	0	0	-12.13092	C17orf100	39.00184707	78.89326393	0.494362194	-1.01636	LINC00882	9.905781747	4.9789592	0.502631627	-0.992427
NAIPP2	3.301927249	0	0	-12.13092	RPL13	690.4156758	1398.966469	0.493518387	-1.018824	ENSG000002	9.905781747	4.9789592	0.502631627	-0.992427
C3orf80	3.301927249	0	0	-12.13092	TEX264	117.8353677	238.9021373	0.493236976	-1.019647	ENSG000002	9.905781747	4.9789592	0.502631627	-0.992427
TH	3.301927249	0	0	-12.13092	CD207	29.04392867	58.89215477	0.493171438	-1.019839	IQCA1L	9.905781747	4.9789592	0.502631627	-0.992427
LINC03040	3.301927249	0	0	-12.13092	OGA	2106.929568	4272.459152	0.493142121	-1.019925	HAO1	6.603854498	3.319306133	0.502631627	-0.992427
TP53TG1	3.301927249	0	0	-12.13092	RFX3	1111.967555	2255.680645	0.492963203	-1.020448	UNC93A	6.603854498	3.319306133	0.502631627	-0.992427
MRGPRG	3.301927249	0	0	-12.13092	LONRF3	138.5810311	281.1267011	0.492948662	-1.020491	KCNS1	6.603854498	3.319306133	0.502631627	-0.992427
CCDC172	3.301927249	0	0	-12.13092	ME3	51.44924507	104.4502368	0.492571838	-1.021594	SSTR4	6.603854498	3.319306133	0.502631627	-0.992427
TAFA1	3.301927249	0	0	-12.13092	MAP3K15	25.72462253	52.22511838	0.492571838	-1.021594	DSG1	6.603854498	3.319306133	0.502631627	-0.992427
CEND1	3.301927249	0	0	-12.13092	TMUB2	176.7530516	358.9087923	0.492473451	-1.021882	RDH5	6.603854498	3.319306133	0.502631627	-0.992427
TCEAL2	3.301927249	0	0	-12.13092	ADAM9	2169.166558	4404.688707	0.492467619	-1.021899	PAX3	6.603854498	3.319306133	0.502631627	-0.992427
OR6C76	3.301927249	0	0	-12.13092	RPL10P16	48.12993894	97.78320037	0.492210715	-1.022652	ITLN2	6.603854498	3.319306133	0.502631627	-0.992427
TMEM212	3.301927249	0	0	-12.13092	MYRIP	94.6002248	192.2328825	0.492112606	-1.02294	CCDC116	6.603854498	3.319306133	0.502631627	-0.992427
FOXI2	3.301927249	0	0	-12.13092	MGP	1077.11484	2189.010281	0.492055633	-1.023107	DCST1	6.603854498	3.319306133	0.502631627	-0.992427
FGF3	3.301927249	0	0	-12.13092	RHOBTB1	315.3340827	641.146666	0.491828312	-1.023773	SOAT2	6.603854498	3.319306133	0.502631627	-0.992427
KRTAP19-4	3.301927249	0	0	-12.13092	C5AR1	124.47398	253.3473828	0.49131741	-1.025273	CALML6	6.603854498	3.319306133	0.502631627	-0.992427
SAMD7	3.301927249	0	0	-12.13092	TPGS1	39.8316736	81.11560939	0.491048195	-1.026063	MYOZ2	6.603854498	3.319306133	0.502631627	-0.992427
VSTM2B	3.301927249	0	0	-12.13092	HGSNAT	760.1211046	1548.974788	0.490725292	-1.027012	MYOZ1	6.603854498	3.319306133	0.502631627	-0.992427
MAGED4B	3.301927249	0	0	-12.13092	SLC9A1	422.3817055	861.1588669	0.490480586	-1.027732	NUPR2	6.603854498	3.319306133	0.502631627	-0.992427
C5orf52	3.301927249	0	0	-12.13092	NOP53	422.3817055	861.1588669	0.490480586	-1.027732	OR7A17	6.603854498	3.319306133	0.502631627	-0.992427
ASCL4	3.301927249	0	0	-12.13092	ZSCAN12	53.93872467	110.0061004	0.49032485	-1.02819	CYP4A11	6.603854498	3.319306133	0.502631627	-0.992427
FAM72B	3.301927249	0	0	-12.13092	ASPSCR1	285.4603275	582.2545113	0.490267266	-1.02836	SLC18A3	6.603854498	3.319306133	0.502631627	-0.992427
IGFL3	3.301927249	0	0	-12.13092	ENSG000002	17.4263572	35.55752741	0.490089117	-1.028884	CATSPER4	6.603854498	3.319306133	0.502631627	-0.992427
SLC4A5	3.301927249	0	0	-12.13092	TMEM53	66.38612267	135.5630732	0.489706534	-1.030011	TBC1D28	6.603854498	3.319306133	0.502631627	-0.992427
GLRA4	3.301927249	0	0	-12.13092	ZNF70	99.579184	203.3446099	0.489706534	-1.030011	TMEM207	6.603854498	3.319306133	0.502631627	-0.992427
POTEA	3.301927249	0	0	-12.13092	UBA1	2378.282845	4856.936009	0.489667321	-1.030126	LINC01123	6.603854498	3.319306133	0.502631627	-0.992427
VHLL	3.301927249	0	0	-12.13092	CZIB	115.3458881	235.5686191	0.489648785	-1.030181	RPS3AP47	6.603854498	3.319306133	0.502631627	-0.992427
ADAM5	3.301927249	0	0	-12.13092	PARS2	96.25987787	196.6775735	0.489429863	-1.030826	HNRNPCP6	6.603854498	3.319306133	0.502631627	-0.992427
LINC00523	3.301927249	0	0	-12.13092	TMEM87A	492.0871343	1005.611322	0.489341283	-1.031087	ZGLP1	6.603854498	3.319306133	0.502631627	-0.992427
BECN2	3.301927249	0	0	-12.13092	SMIM3	31.53340827	64.44801842	0.489284373	-1.031255	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
LINC00173	3.301927249	0	0	-12.13092	LHX9	15.76670413	32.22400921	0.489284373	-1.031255	HNRNPA1P8	6.603854498	3.319306133	0.502631627	-0.992427
H2AC7	3.301927249	0	0	-12.13092	PTPA	392.5079503	802.2667121	0.489248705	-1.03136	TNPO1P3	6.603854498	3.319306133	0.502631627	-0.992427
TEX43	3.301927249	0	0	-12.13092	KDM5C	1784.956873	3649.09125	0.489151066	-1.031648	TMEM254-A	6.603854498	3.319306133	0.502631627	-0.992427
DCHS2	3.301927249	0	0	-12.13092	DEPP1	61.40716347	125.5625187	0.489056481	-1.031927	CAP1P2	6.603854498	3.319306133	0.502631627	-0.992427
OR52M1	3.301927249	0	0	-12.13092	ATOSA	393.3377768	804.4890576	0.488928685	-1.032304	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
OR5H2	3.301927249	0	0	-12.13092	VN1R1	29.8737552	61.11450023	0.488816158	-1.032636	DNAJC9-AS1	6.603854498	3.319306133	0.502631627	-0.992427
ENSG000001	3.301927249	0	0	-12.13092	SEC16A	3794.796737	7764.875047	0.488713175	-1.03294	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
TAT	3.301927249	0	0	-12.13092	CAV1	87.96161254	180.0099825	0.488648526	-1.033131	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
RNU4-82P	3.301927249	0	0	-12.13092	IDS	341.8885317	700.0388208	0.488385103	-1.033909	LINC02102	6.603854498	3.319306133	0.502631627	-0.992427
Y_RNA.2	3.301927249	0	0	-12.13092	OLFM4	28.21410213	57.78098203	0.488293919	-1.034178	KDM2B-DT	6.603854498	3.319306133	0.502631627	-0.992427
RN7SKP95	3.301927249	0	0	-12.13092	BTN2A2	84.6423064	173.3429461	0.488293919	-1.034178	PHB1P19	6.603854498	3.319306133	0.502631627	-0.992427
SNORD104	3.301927249	0	0	-12.13092	ATG9A	302.0568581	618.9232114	0.48803608	-1.03494	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
Y_RNA.40	3.301927249	0	0	-12.13092	WDR81	81.32300027	166.6759097	0.487910943	-1.03531	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427

RN7SKP50	3.301927249	0	0	-12.13092	PRR5	40.66150013	83.33795486	0.487910943	-1.03531	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	HOXA3	26.55444907	54.44746384	0.487707731	-1.035911	ENSG000002	6.603854498	3.319306133	0.502631627	-0.992427
RNA5SP363	3.301927249	0	0	-12.13092	C5AR2	26.55444907	54.44746384	0.487707731	-1.035911	DHRSX	6.603854498	3.319306133	0.502631627	-0.992427
Y_RNA.50	3.301927249	0	0	-12.13092	GRINA	1791.595486	3673.53705	0.487703121	-1.035925	CD79B	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	BCL6	1405.726148	2883.493238	0.487508044	-1.036502	LY75	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	TMEM88	39.00184707	80.00443666	0.487496053	-1.036538	GSC2	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	CNN3	3059.570429	6277.01476	0.487424444	-1.036749	ROPN1	3.301927249	1.659653067	0.502631627	-0.992427
GJE1	3.301927249	0	0	-12.13092	MCRS1	205.7969803	422.2456379	0.487386871	-1.036861	TMEM131	3.301927249	1.659653067	0.502631627	-0.992427
ADD3-AS1	3.301927249	0	0	-12.13092	ASAH2	51.44924507	105.5614095	0.487386871	-1.036861	SLC6A2	3.301927249	1.659653067	0.502631627	-0.992427
C1orf141	3.301927249	0	0	-12.13092	AMBRA1	674.6489716	1384.521223	0.487279617	-1.037178	LILRB1	3.301927249	1.659653067	0.502631627	-0.992427
IER5L-AS1	3.301927249	0	0	-12.13092	PRR12	1438.919209	2953.49712	0.487191675	-1.037439	CRHR2	3.301927249	1.659653067	0.502631627	-0.992427
SPANXN5	3.301927249	0	0	-12.13092	GSDME	49.789592	102.2278913	0.487045085	-1.037873	DBX1	3.301927249	1.659653067	0.502631627	-0.992427
TRIM64	3.301927249	0	0	-12.13092	PAXX	49.789592	102.2278913	0.487045085	-1.037873	GPRC5D	3.301927249	1.659653067	0.502631627	-0.992427
KRTAP5-11	3.301927249	0	0	-12.13092	SIAE	161.816174	332.2406467	0.487045085	-1.037873	TULP1	3.301927249	1.659653067	0.502631627	-0.992427
MROH6	3.301927249	0	0	-12.13092	CHIT1	12.447398	25.55697282	0.487045085	-1.037873	IL5	3.301927249	1.659653067	0.502631627	-0.992427
CLLU1-AS1	3.301927249	0	0	-12.13092	GALM	12.447398	25.55697282	0.487045085	-1.037873	GRIN3B	3.301927249	1.659653067	0.502631627	-0.992427
KRT81	3.301927249	0	0	-12.13092	ZIC4	12.447398	25.55697282	0.487045085	-1.037873	PDC	3.301927249	1.659653067	0.502631627	-0.992427
DAZ2	3.301927249	0	0	-12.13092	TRIOBP	183.3916639	376.687556	0.486853523	-1.03844	TREH	3.301927249	1.659653067	0.502631627	-0.992427
LINC03069	3.301927249	0	0	-12.13092	SARAF	1552.605444	3189.065739	0.486852756	-1.038443	IFNA21	3.301927249	1.659653067	0.502631627	-0.992427
Y_RNA.75	3.301927249	0	0	-12.13092	NELFB	546.8556855	1123.395631	0.486788154	-1.038634	CELA1	3.301927249	1.659653067	0.502631627	-0.992427
RNU6-611P	3.301927249	0	0	-12.13092	PDGFB	35.68254093	73.33740027	0.48655312	-1.039331	VAX1	3.301927249	1.659653067	0.502631627	-0.992427
MIR181B2	3.301927249	0	0	-12.13092	ERAP1	189.2004496	388.910456	0.486488462	-1.039523	DSPP	3.301927249	1.659653067	0.502631627	-0.992427
IGKV3D-20	3.301927249	0	0	-12.13092	MTMR11	46.47028587	95.5608549	0.486289976	-1.040111	SIGLEC16	3.301927249	1.659653067	0.502631627	-0.992427
IGKV1D-42	3.301927249	0	0	-12.13092	RPS15P4	57.2580308	117.7843095	0.486126132	-1.040597	PGLYRP4	3.301927249	1.659653067	0.502631627	-0.992427
IGLV3-16	3.301927249	0	0	-12.13092	RAPGEF1	1285.4013	2644.591101	0.486049166	-1.040826	OTOP1	3.301927249	1.659653067	0.502631627	-0.992427
IGLV3-10	3.301927249	0	0	-12.13092	SDHC	656.3927879	1351.186041	0.485790089	-1.041595	NKX6-3	3.301927249	1.659653067	0.502631627	-0.992427
IGLV3-9	3.301927249	0	0	-12.13092	ZNF785	143.5599903	295.5719466	0.485702354	-1.041856	SLC39A2	3.301927249	1.659653067	0.502631627	-0.992427
IGLJ2	3.301927249	0	0	-12.13092	MATK	21.57548987	44.44690926	0.485421601	-1.04269	SPDYE5	3.301927249	1.659653067	0.502631627	-0.992427
TRAV9-1	3.301927249	0	0	-12.13092	CACNA1S	21.57548987	44.44690926	0.485421601	-1.04269	FSHR	3.301927249	1.659653067	0.502631627	-0.992427
TRAV8-4	3.301927249	0	0	-12.13092	MPP4	10.78774493	22.22345463	0.485421601	-1.04269	AGAP5	3.301927249	1.659653067	0.502631627	-0.992427
TRAV14DV4	3.301927249	0	0	-12.13092	EIF3LP2	10.78774493	22.22345463	0.485421601	-1.04269	FAM53A	3.301927249	1.659653067	0.502631627	-0.992427
TRAV21	3.301927249	0	0	-12.13092	NPIPB5	229.0321232	472.2484109	0.484982306	-1.043996	OR10AG1	3.301927249	1.659653067	0.502631627	-0.992427
TRDV1	3.301927249	0	0	-12.13092	ZNF846	218.2443783	450.0249562	0.484960612	-1.044061	ANKRD30BF	3.301927249	1.659653067	0.502631627	-0.992427
TRAV34	3.301927249	0	0	-12.13092	UAP1L1	30.70358173	63.33684569	0.484766511	-1.044638	RBMXL3	3.301927249	1.659653067	0.502631627	-0.992427
TRDJ1	3.301927249	0	0	-12.13092	STON1	30.70358173	63.33684569	0.484766511	-1.044638	FOXN3P1	3.301927249	1.659653067	0.502631627	-0.992427
TRAJ53	3.301927249	0	0	-12.13092	PACS1	638.9664307	1318.962032	0.484446417	-1.045591	SHISA3	3.301927249	1.659653067	0.502631627	-0.992427
TRAJ38	3.301927249	0	0	-12.13092	FOXD1	154.3477352	318.9065739	0.483990447	-1.04695	OR3A1	3.301927249	1.659653067	0.502631627	-0.992427
TRAJ20	3.301927249	0	0	-12.13092	ARHGEF18	414.0834401	855.6030032	0.483966791	-1.04702	CCDC190	3.301927249	1.659653067	0.502631627	-0.992427
TRAJ17	3.301927249	0	0	-12.13092	ILVBL	209.1162864	432.2461925	0.483789771	-1.047548	SAMD7	3.301927249	1.659653067	0.502631627	-0.992427
TRAJ4	3.301927249	0	0	-12.13092	NBPF14	445.6168484	921.1621944	0.483755034	-1.047651	ASCL4	3.301927249	1.659653067	0.502631627	-0.992427
IGHV1-18	3.301927249	0	0	-12.13092	CYP2E1	222.3935109	460.0255108	0.483437344	-1.048599	PROS2P	3.301927249	1.659653067	0.502631627	-0.992427
IGHV4-28	3.301927249	0	0	-12.13092	COASY	463.0432056	957.8308945	0.483428973	-1.048624	RNF222	3.301927249	1.659653067	0.502631627	-0.992427
MIR548U	3.301927249	0	0	-12.13092	PPP1R13L	313.6744296	648.9248752	0.483375567	-1.048784	ADH7	3.301927249	1.659653067	0.502631627	-0.992427
RNU11-6P	3.301927249	0	0	-12.13092	CLDND2	9.128091867	18.88993643	0.483225124	-1.049233	TEX43	3.301927249	1.659653067	0.502631627	-0.992427
C2orf74-DT	3.301927249	0	0	-12.13092	CEACAM3	9.128091867	18.88993643	0.483225124	-1.049233	OR5H2	3.301927249	1.659653067	0.502631627	-0.992427
RPL12P42	3.301927249	0	0	-12.13092	JMJD1C-AS	9.128091867	18.88993643	0.483225124	-1.049233	GUSBP13	3.301927249	1.659653067	0.502631627	-0.992427
ST13P11	3.301927249	0	0	-12.13092	TCP11L2	244.7988273	506.6947655	0.483128787	-1.04952	SH2D1B	3.301927249	1.659653067	0.502631627	-0.992427
FTH1P3	3.301927249	0	0	-12.13092	NDUFA2	106.2177963	220.0122008	0.482781391	-1.050558	POU3F3	3.301927249	1.659653067	0.502631627	-0.992427
GTF3C6P2	3.301927249	0	0	-12.13092	NATD1	43.98080627	91.11616398	0.482689397	-1.050833	RN7SKP95	3.301927249	1.659653067	0.502631627	-0.992427
IRF9	3.301927249	0	0	-12.13092	TAFAZZIN	60.57733694	125.5625187	0.482447609	-1.051556	RNA5SP363	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	FZD1	258.9058784	536.6964293	0.48240656	-1.051679	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RPL39P5	3.301927249	0	0	-12.13092	SEMA4G	25.72462253	53.33629111	0.482309924	-1.051968	ADD3-AS1	3.301927249	1.659653067	0.502631627	-0.992427
RPS3AP36	3.301927249	0	0	-12.13092	CTU2	42.3211532	87.78264578	0.482112983	-1.052557	TMEM235	3.301927249	1.659653067	0.502631627	-0.992427
HNRNPA3P3	3.301927249	0	0	-12.13092	PYGM	49.789592	103.339064	0.481808041	-1.05347	CSHL1	3.301927249	1.659653067	0.502631627	-0.992427
GOT2P6	3.301927249	0	0	-12.13092	MAP1LC3B2	16.59653067	34.44635467	0.481808041	-1.05347	KRTAP5-11	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	SLC4A2	381.7202053	792.2661575	0.481808041	-1.05347	KLRC3	3.301927249	1.659653067	0.502631627	-0.992427
LINC00612	3.301927249	0	0	-12.13092	ZXDC	771.738676	1602.311079	0.481640979	-1.05397	Y_RNA.75	3.301927249	1.659653067	0.502631627	-0.992427
GPR33	3.301927249	0	0	-12.13092	B4GALT3	400.8062156	832.2683758	0.481582897	-1.054144	IGKJ4	3.301927249	1.659653067	0.502631627	-0.992427
RPL7AP26	3.301927249	0	0	-12.13092	DOCK5	692.0753288	1437.857514	0.481323999	-1.05492	TRAV17	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ABCB4	24.06496947	50.00277291	0.481272699	-1.055074	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
C16orf90	3.301927249	0	0	-12.13092	GABRE	24.06496947	50.00277291	0.481272699	-1.055074	GPR33	3.301927249	1.659653067	0.502631627	-0.992427
YWHAZP6	3.301927249	0	0	-12.13092	UROD	268.8637968	558.9198839	0.481041746	-1.055766	RPL7AP26	3.301927249	1.659653067	0.502631627	-0.992427
TMCO5B	3.301927249	0	0	-12.13092	MVB12A	157.6670413	327.7959558	0.480991417	-1.055917	BASP1-AS1	3.301927249	1.659653067	0.502631627	-0.992427
AATBC	3.301927249	0	0	-12.13092	FOXF2	31.53340827	65.55919115	0.480991417	-1.055917	LY86-AS1	3.301927249	1.659653067	0.502631627	-0.992427
MIR938	3.301927249	0	0	-12.13092	ZNF454	31.53340827	65.55919115	0.480991417	-1.055917	CDC14C	3.301927249	1.659653067	0.502631627	-0.992427
TUBB2BP1	3.301927249	0	0	-12.13092	KDM4A	195.0092353	405.578047	0.480818025	-1.056437	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LY86-AS1	3.301927249	0	0	-12.13092	TMEM185A	131.9424188	274.4596647	0.480735189	-1.056686	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RBM33-DT	3.301927249	0	0	-12.13092	SLC40A1	494.5766139	1028.945949	0.480663357	-1.056901	RPS26P20	3.301927249	1.659653067	0.502631627	-0.992427
DDX18P3	3.301927249	0	0	-12.13092	EEF1D	61.40716347	127.7848641	0.480551151	-1.057238	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	TTC7B	469.6818179	977.8320037	0.480329766	-1.057903	COX7BP3	3.301927249	1.659653067	0.502631627	-0.992427
HNRNPA1P3	3.301927249	0	0	-12.13092	RAPGEFL1	180.9021843	376.687556	0.480244652	-1.058159	LRRK2-DT	3.301927249	1.659653067	0.502631627	-0.992427
RPL23P8	3.301927249	0	0	-12.13092	APH1A	427.3606647	890.0493579	0.480153894	-1.058431	FAM225B	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	PNPLA3	7.4684388	15.55641824	0.480087298	-1.058631	TRMT2B-AS	3.301927249	1.659653067	0.502631627	-0.992427
HSPE1P26	3.301927249	0	0	-12.13092	IL11RA	7.4684388	15.55641824	0.480087298	-1.058631	MRPL35P3	3.301927249	1.659653067	0.502631627	-0.992427
HMSD	3.301927249	0	0	-12.13092	ENSG000002	7.4684388	15.55641824	0.480087298	-1.058631	PAPPA-AS2	3.301927249	1.659653067	0.502631627	-0.992427
TAS2R40	3.301927249	0	0	-12.13092	SFXN2	104.5581432	217.7898554	0.480087298	-1.058631	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
PSMB11	3.301927249	0	0	-12.13092	ERI3	320.3130419	667.8148116	0.479643512	-1.059966	PERPP2	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	SCAMP2	556.8136039	1161.175504	0.479525792	-1.06032	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
SUPT20HL2	3.301927249	0	0	-12.13092	TANC1	1734.337455	3616.867241	0.479513717	-1.060356	KIF19BP	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	SYS1	93.77039827	195.5664007	0.479481127	-1.060454	VIPR1-AS1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	DHRS7B	142.7301637	297.794292	0.479291133	-1.061026	LINC01431	3.301927249	1.659653067	0.502631627	-0.992427
SRIP2	3.301927249	0	0	-12.13092	SIRT6	99.579184	207.7893008	0.479231527	-1.061205	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	SLFN5	335.2499195	700.0388208	0.478901897	-1.062198	PTPRT-DT	3.301927249	1.659653067	0.502631627	-0.992427
UBE2SP2	3.301927249	0	0	-12.13092	GRM7	62.23699	130.0072096	0.478719528	-1.062747	MTFR2P1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	EIF4A3	20.74566333	43.33573653	0.478719528	-1.062747	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC02975	3.301927249	0	0	-12.13092	OBSL1	1455.51574	3041.279766	0.478586599	-1.063148	LINC01524	3.301927249	1.659653067	0.502631627	-0.992427
BACE2-IT1	3.301927249	0	0	-12.13092	ARL4D	68.04577574	142.2301096	0.478420328	-1.063649	UBE2R2-AS1	3.301927249	1.659653067	0.502631627	-0.992427
CSRP1-AS1	3.301927249	0	0	-12.13092	TRMT61A	81.32300027	170.0094279	0.478344062	-1.063879	RPS2P7	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	FKBP8	946.002248	1977.887462	0.478289218	-1.064045	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	NPIPB13	100.4090105	210.0116462	0.47811163	-1.064581	RPL13AP12	3.301927249	1.659653067	0.502631627	-0.992427
LARGE-AS1	3.301927249	0	0	-12.13092	ATG4B	752.6526658	1574.53176	0.47801682	-1.064867	SLC12A9-AS	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	IL10RA	53.10889814	111.1172731	0.477953577	-1.065058	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
PDK1-AS1	3.301927249	0	0	-12.13092	KCNQ4	13.27722453	27.77931829	0.477953577	-1.065058	RAD23BP1	3.301927249	1.659653067	0.502631627	-0.992427
LRRK2-DT	3.301927249	0	0	-12.13092	POPDC3	13.27722453	27.77931829	0.477953577	-1.065058	DDX10P1	3.301927249	1.659653067	0.502631627	-0.992427
BOLA3-DT	3.301927249	0	0	-12.13092	CHODL	13.27722453	27.77931829	0.477953577	-1.065058	LINC02245	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	GRIN1	13.27722453	27.77931829	0.477953577	-1.065058	AMY1A	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	QKI	300.3972051	628.923766	0.477636911	-1.066014	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
AGBL4-IT1	3.301927249	0	0	-12.13092	ADAMTSL4	32.3632348	67.78153662	0.47746387	-1.066537	KCNMB3P1	3.301927249	1.659653067	0.502631627	-0.992427
FAM225B	3.301927249	0	0	-12.13092	GDF10	19.08601027	40.00221833	0.477123796	-1.067564	PTPN11P1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	OCEL1	82.1528268	172.2317734	0.476989961	-1.067969	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	FAM81B	43.98080627	92.22733671	0.476873862	-1.06832	CYP51A1P1	3.301927249	1.659653067	0.502631627	-0.992427

ENSG000002	3.301927249	0	0	-12.13092	CSKMT	24.894796	52.22511838	0.476682424	-1.0689	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
DBH-AS1	3.301927249	0	0	-12.13092	PALM	204.9671537	430.0238471	0.476641366	-1.069024	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
TRAM2-AS1	3.301927249	0	0	-12.13092	GGA3	421.551879	884.4934942	0.476602577	-1.069141	PAQR9-AS1	3.301927249	1.659653067	0.502631627	-0.992427
MTND1P23	3.301927249	0	0	-12.13092	MEGF6	86.30195947	181.1211552	0.476487461	-1.06949	LINC01206	3.301927249	1.659653067	0.502631627	-0.992427
PAPPA-AS2	3.301927249	0	0	-12.13092	TENT5C	234.0110824	491.1383473	0.47646673	-1.069553	RPSAP36	3.301927249	1.659653067	0.502631627	-0.992427
LINC02611	3.301927249	0	0	-12.13092	APBA1	42.3211532	88.89381852	0.476086571	-1.070704	MIR3150BH(	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	SLC25A22	53.93872467	113.3396186	0.475903531	-1.071259	MEF2C-AS2	3.301927249	1.659653067	0.502631627	-0.992427
SLC8A1-AS1	3.301927249	0	0	-12.13092	CMBL	376.7412461	792.2661575	0.475523588	-1.072411	MINDY2-DT	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ZNF860	34.8527144	73.33740027	0.475237931	-1.073278	FZD4-DT	3.301927249	1.659653067	0.502631627	-0.992427
EPS15-AS1	3.301927249	0	0	-12.13092	PLD6	17.4263572	36.66870014	0.475237931	-1.073278	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RPS15AP30	3.301927249	0	0	-12.13092	IL7R	11.61757147	24.44580009	0.475237931	-1.073278	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	TMEM37	11.61757147	24.44580009	0.475237931	-1.073278	YWHAQP6	3.301927249	1.659653067	0.502631627	-0.992427
RPL21P90	3.301927249	0	0	-12.13092	ENSG000002	11.61757147	24.44580009	0.475237931	-1.073278	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
TEX46	3.301927249	0	0	-12.13092	RNF17	5.808785734	12.22290005	0.475237931	-1.073278	PTTG2	3.301927249	1.659653067	0.502631627	-0.992427
BUB3P1	3.301927249	0	0	-12.13092	PRL	5.808785734	12.22290005	0.475237931	-1.073278	ADAMTS16-	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	PAFAH1B1P	5.808785734	12.22290005	0.475237931	-1.073278	LINC02381	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	CYP51A1P2	5.808785734	12.22290005	0.475237931	-1.073278	SMAD1-AS1	3.301927249	1.659653067	0.502631627	-0.992427
ITPKB-IT1	3.301927249	0	0	-12.13092	C8orf89	5.808785734	12.22290005	0.475237931	-1.073278	DDX18P4	3.301927249	1.659653067	0.502631627	-0.992427
LINC01013	3.301927249	0	0	-12.13092	VAT1	480.4695628	1011.167186	0.475163326	-1.073505	RN7SKP57	3.301927249	1.659653067	0.502631627	-0.992427
PMS2P12	3.301927249	0	0	-12.13092	SCAF1	862.1897682	1814.54507	0.475154782	-1.073531	OXR1-AS1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ECE1	2248.000079	4732.484663	0.475014763	-1.073956	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ATPAF1	337.7393991	711.1505481	0.474919692	-1.074245	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
BTBD6P1	3.301927249	0	0	-12.13092	PTGR1	285.4603275	601.1444477	0.474861456	-1.074421	PIGFP1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ARMC10	117.0055412	246.6803464	0.474320484	-1.076066	CKS1BP7	3.301927249	1.659653067	0.502631627	-0.992427
HMGN1P37	3.301927249	0	0	-12.13092	SLC2A1	450.5958076	950.0526854	0.474285073	-1.076174	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
SNHG31	3.301927249	0	0	-12.13092	RTL10	111.1967555	234.4574463	0.474272655	-1.076211	KRTAP5-9	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ZNF628	105.3879697	222.2345463	0.474219564	-1.076373	DPPA4P3	3.301927249	1.659653067	0.502631627	-0.992427
PIN1P1	3.301927249	0	0	-12.13092	MGRN1	653.9033083	1378.96536	0.474198502	-1.076437	HSBP1P1	3.301927249	1.659653067	0.502631627	-0.992427
SPINK8	3.301927249	0	0	-12.13092	EPB41L4A	238.1602151	502.2500746	0.47418652	-1.076473	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC02766	3.301927249	0	0	-12.13092	GFPT2	99.579184	210.0116462	0.474160294	-1.076553	SHLD2P2	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ISYNA1	790.8246863	1667.87027	0.474152397	-1.076577	TTC7B-AS1	3.301927249	1.659653067	0.502631627	-0.992427
LINC01315	3.301927249	0	0	-12.13092	CHRD	54.7685512	115.5619641	0.473932333	-1.077247	TUBAP11	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	AKR1C3	54.7685512	115.5619641	0.473932333	-1.077247	TEDC2-AS1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	B3GAT3	256.4163988	541.1411202	0.473843863	-1.077516	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ADGRB3-DT	3.301927249	0	0	-12.13092	SCP2	610.7523286	1288.960368	0.473833287	-1.077549	ITFG1-AS1	3.301927249	1.659653067	0.502631627	-0.992427
KIF19BP	3.301927249	0	0	-12.13092	ACER3	292.9287663	618.9232114	0.473287737	-1.079211	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MORF4L2-A	3.301927249	0	0	-12.13092	ENOX1	84.6423064	178.8988098	0.473129511	-1.079693	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC01160	3.301927249	0	0	-12.13092	NLGN4Y	51.44924507	108.8949277	0.472466865	-1.081715	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RPL39P17	3.301927249	0	0	-12.13092	AMFR	533.578461	1130.062668	0.472167143	-1.08263	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
HSP90AA3P	3.301927249	0	0	-12.13092	CTC1	774.2281556	1640.090952	0.472064159	-1.082945	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
IGBP1P3	3.301927249	0	0	-12.13092	CRLS1	29.8737552	63.33684569	0.471664714	-1.084166	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC02015	3.301927249	0	0	-12.13092	GDPD5	139.4108576	295.5719466	0.471664714	-1.084166	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
SNORD62B	3.301927249	0	0	-12.13092	ITPRIPL1	9.9579184	21.1122819	0.471664714	-1.084166	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
COA6-AS1	3.301927249	0	0	-12.13092	ZNF709	9.9579184	21.1122819	0.471664714	-1.084166	ZNF236-DT	3.301927249	1.659653067	0.502631627	-0.992427
DBIL5P	3.301927249	0	0	-12.13092	TAPBPL	59.7475104	126.6736914	0.471664714	-1.084166	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MAP1LC3BP	3.301927249	0	0	-12.13092	ADPRHL1	34.02288787	72.22622754	0.471060016	-1.086017	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
HNRNPA1P9	3.301927249	0	0	-12.13092	CRADD	92.1107452	195.5664007	0.470994736	-1.086217	CEACAM16-	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	PCDHGB7	62.23699	132.229555	0.470673822	-1.0872	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RPS6KA2-IT	3.301927249	0	0	-12.13092	ARAF	429.8501443	913.3839852	0.470612745	-1.087388	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MTCO3P2	3.301927249	0	0	-12.13092	COBLL1	1456.345566	3094.616057	0.47060622	-1.087408	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
VIPR1-AS1	3.301927249	0	0	-12.13092	CRB3	38.17202053	81.11560939	0.470587854	-1.087464	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
KIAA1614-A	3.301927249	0	0	-12.13092	VAC14	394.1676033	837.8242395	0.470465743	-1.087838	CSAG2	3.301927249	1.659653067	0.502631627	-0.992427
LINC01431	3.301927249	0	0	-12.13092	KRCC1	108.7072759	231.1239281	0.470341936	-1.088218	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ING2-DT	3.301927249	0	0	-12.13092	KREMEN1	187.5407965	398.9110106	0.470131913	-1.088862	MROH7-TTC	3.301927249	1.659653067	0.502631627	-0.992427
IDI2-AS1	3.301927249	0	0	-12.13092	SLC10A7	177.5828781	377.7987287	0.470046257	-1.089125	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	UBR4	10824.2573	23034.61072	0.469912751	-1.089535	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
DLGAP4-AS1	3.301927249	0	0	-12.13092	PLA2G15	46.47028587	98.8943731	0.469898179	-1.08958	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ENDOD1	347.6973175	740.0410391	0.469835184	-1.089773	FGD5P1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ZFY	64.7264696	137.7854187	0.46976284	-1.089995	ZNF516-DT	3.301927249	1.659653067	0.502631627	-0.992427
UBE2E2-DT	3.301927249	0	0	-12.13092	CCDC22	105.3879697	224.4568918	0.469524321	-1.090728	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC01687	3.301927249	0	0	-12.13092	MISFA	18.25618373	38.8910456	0.469418691	-1.091053	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
UICLM	3.301927249	0	0	-12.13092	LDAF1	54.7685512	116.6731368	0.469418691	-1.091053	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
PTPRT-DT	3.301927249	0	0	-12.13092	VSIG10L	22.4053164	47.78042745	0.468922477	-1.092579	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
B4GALT1-AS	3.301927249	0	0	-12.13092	NPRL3	419.0623993	894.4940488	0.468490987	-1.093907	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC00690	3.301927249	0	0	-12.13092	SMAD7	61.40716347	131.1183823	0.468333748	-1.094391	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
BTF3P5	3.301927249	0	0	-12.13092	C6orf120	217.4145517	464.4702017	0.468091496	-1.095138	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MTFR2P1	3.301927249	0	0	-12.13092	SLC12A4	286.290154	612.256175	0.467598639	-1.096657	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
CAVIN2-AS1	3.301927249	0	0	-12.13092	BAP1	477.1502567	1021.16774	0.46725943	-1.097704	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
C16orf82	3.301927249	0	0	-12.13092	CXCL16	167.6249597	358.9087923	0.46704055	-1.09838	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC01191	3.301927249	0	0	-12.13092	ZNF471	304.5463377	652.2583934	0.466910569	-1.098782	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	COLGALT2	12.447398	26.66814555	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
BACH1-IT3	3.301927249	0	0	-12.13092	ZNF671	29.04392867	62.22567296	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
SAPCD2P4	3.301927249	0	0	-12.13092	GLDN	41.49132667	88.89381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	HYAL3	20.74566333	44.44690926	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
API5P1	3.301927249	0	0	-12.13092	ASB9	8.298265334	17.7787637	0.46675154	-1.099273	KMT2CP4	3.301927249	1.659653067	0.502631627	-0.992427
CCT6P3	3.301927249	0	0	-12.13092	ATP10B	8.298265334	17.7787637	0.46675154	-1.099273	LINC02801	3.301927249	1.659653067	0.502631627	-0.992427
NUS1P3	3.301927249	0	0	-12.13092	MMP27	8.298265334	17.7787637	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	MXRA7P1	8.298265334	17.7787637	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MNX1-AS2	3.301927249	0	0	-12.13092	ENSG000002	8.298265334	17.7787637	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
FAM237A	3.301927249	0	0	-12.13092	FNDC11	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC02939	3.301927249	0	0	-12.13092	HNF1A	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	MMP20	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MCF2L-AS1	3.301927249	0	0	-12.13092	CER1	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
HIPK1-AS1	3.301927249	0	0	-12.13092	LINC01620	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	TEX37	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
FEM1AP4	3.301927249	0	0	-12.13092	RAX2	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MTCO2P11	3.301927249	0	0	-12.13092	MSC	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
LINC01553	3.301927249	0	0	-12.13092	TMEM150B	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
RPL13AP12	3.301927249	0	0	-12.13092	CCR4	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	MRGPRE	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
USP17L4	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
MED13P1	3.301927249	0	0	-12.13092	DPY19L1P2	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	WBP1P2	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	PPIAP3	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	3.301927249	1.659653067	0.502631627	-0.992427
SLC12A9-AS	3.301927249	0	0	-12.13092	PAGE2B	4.149132667	8.889381852	0.46675154	-1.099273	DPY19L2P3.1	3.301927249	1.659653067	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	USP2-AS1	4.149132667	8.889381852	0.46675154	-1.099273	GRIN2D	26.41541799	13.27722453	0.502631627	-0.992427
POU5F1P5	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	TMC2	13.207709	6.638612267	0.502631627	-0.992427
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	C10orf90	13.207709	6.638612267	0.502631627	-0.992427
LINC01424	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	13.207709	6.638612267	0.502631627	-0.992427
TCF3P1	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	SPTLC1P1	13.207709	6.638612267	0.502631627	-0.992427
LINC01829	3.301927249	0	0	-12.13092	ENSG000002	4.149132667	8.889381852	0.46675154	-1.099273	L1TD1	13.207709	6.638612267	0.502631627	-0.992427

OR10G9	3.301927249	0	0	-12.13092	ENSG00000(	4.149132667	8.889381852	0.46675154	-1.099273	ENSG000002	13.207709	6.638612267	0.502631627	-0.992427
HAND2-AS1	3.301927249	0	0	-12.13092	CDC14A	424.0413586	908.9392943	0.466523299	-1.099979	FAM185A	241.0406892	121.1546739	0.502631627	-0.992427
DDX10P1	3.301927249	0	0	-12.13092	METTL3	520.3012364	1115.617422	0.466379626	-1.100423	DECR1	954.2569749	478.8099098	0.501762023	-0.994925
ENSG000002	3.301927249	0	0	-12.13092	CACTIN	250.6076131	537.807602	0.46598005	-1.10166	ADCY9	966.3640415	484.6186955	0.501486681	-0.995717
PTP4A1P7	3.301927249	0	0	-12.13092	WIZ	726.9280432	1560.086515	0.465953674	-1.101742	CZIB	230.034265	115.3458881	0.501429159	-0.995882
NONOP2	3.301927249	0	0	-12.13092	ZNF703	312.0147765	670.0371571	0.465667871	-1.102627	PHYKPL	840.8908061	421.551879	0.501315838	-0.996208
RAC1P4	3.301927249	0	0	-12.13092	SMARCD3	39.8316736	85.56030032	0.465539198	-1.103025	ZNF630	190.411138	95.43005134	0.501178935	-0.996602
TIAM1-AS1	3.301927249	0	0	-12.13092	PCDHGA8	39.8316736	85.56030032	0.465539198	-1.103025	GABPB2	468.8736693	234.8409089	0.500861798	-0.997516
EEF1A1P30	3.301927249	0	0	-12.13092	IL18	35.68254093	76.67091847	0.465398637	-1.103461	EEF1A1P5	1183.190598	592.4961448	0.50076137	-0.997805
AMY1A	3.301927249	0	0	-12.13092	SNX17	560.9627366	1205.622414	0.465288908	-1.103801	ANKRD16	144.1841565	72.1949084	0.500713186	-0.997944
GOLM2P1	3.301927249	0	0	-12.13092	C2CD2	254.7567457	547.8081566	0.465047376	-1.10455	RIN3	487.5845904	243.9690008	0.50036241	-0.998955
ENSG000002	3.301927249	0	0	-12.13092	FN3K	131.1125923	282.2378738	0.464546414	-1.106105	SIGLEC10	104.5610295	52.2790716	0.499986198	-1.00004
RNU7-127P	3.301927249	0	0	-12.13092	STARD13	199.158368	428.9126743	0.464333138	-1.106768	TMBIM6	4645.811639	2322.684467	0.499952354	-1.000137
RNU7-195P	3.301927249	0	0	-12.13092	TMEM147-A	118.6651943	255.5697282	0.464316314	-1.10682	WIPF1	1286.650985	643.1155634	0.499836841	-1.000471
KCNMB3P1	3.301927249	0	0	-12.13092	DHDH	19.08601027	41.11339106	0.464228558	-1.107093	NSMAF	790.2612549	394.9974299	0.499831451	-1.000486
RPL21P45	3.301927249	0	0	-12.13092	ADORA3	38.17202053	82.22678213	0.464228558	-1.107093	PXDNL	97.95717505	48.95976547	0.499807854	-1.000555
HOXB-AS2	3.301927249	0	0	-12.13092	LYSMD4	68.04577574	146.6748005	0.463922743	-1.108044	FOXA1	4687.636051	2342.600304	0.499740227	-1.00075
ENSG000002	3.301927249	0	0	-12.13092	KLHDC8B	34.02288787	73.33740027	0.463922743	-1.108044	ITPKB	775.9529035	387.5289911	0.49942334	-1.001665
IGKV3-20	3.301927249	0	0	-12.13092	CARD11	34.02288787	73.33740027	0.463922743	-1.108044	CISH	166.1970049	82.98265334	0.499302941	-1.002013
ENSG000002	3.301927249	0	0	-12.13092	GNPDA1	138.5810311	298.9054648	0.463628295	-1.108959	TSPAN15	1201.901519	599.9645836	0.499179487	-1.002369
RPL22P19	3.301927249	0	0	-12.13092	CLSTN1	4247.052198	9161.619171	0.463570044	-1.109141	RBCK1	514.0000084	256.4163988	0.498864581	-1.00328
TDGF1	3.301927249	0	0	-12.13092	PTPRZ1	14.9368776	32.22400921	0.463532564	-1.109257	SPIN2B	71.54175706	35.68254093	0.49876523	-1.003567
KRT8P13	3.301927249	0	0	-12.13092	PAK6	14.9368776	32.22400921	0.463532564	-1.109257	SYNJ2	1690.586751	843.1037579	0.498704818	-1.003742
ENSG000002	3.301927249	0	0	-12.13092	IGSF8	1167.565932	2519.028582	0.463498485	-1.109363	CFAP44	1340.582463	668.0103594	0.498298596	-1.004918
U2SURPP1	3.301927249	0	0	-12.13092	RAI14	356.8254093	770.0427029	0.463383924	-1.10972	PLXNB1	1855.683114	923.5969316	0.497712635	-1.006615
PAQR9-AS1	3.301927249	0	0	-12.13092	PPCS	256.4163988	553.3640203	0.463377432	-1.10974	SECISBP2L	3286.518255	1635.588097	0.49766591	-1.006751
ENSG000002	3.301927249	0	0	-12.13092	PAPSS1	838.1247987	1808.989207	0.463311111	-1.109947	ZNF841	3462.621042	1722.719883	0.497519036	-1.007176
RPS20P33	3.301927249	0	0	-12.13092	FAT4	440.6378892	951.1638581	0.463261809	-1.1101	ZNF789	313.6830886	156.0073883	0.497340768	-1.007693
RN7SL127P	3.301927249	0	0	-12.13092	CAPN15	299.5673785	646.7025297	0.463222834	-1.110222	ZNF621	614.1584683	305.3761643	0.497226986	-1.008023
LINC01206	3.301927249	0	0	-12.13092	TLCD1	51.44924507	111.1172731	0.463017527	-1.110861	HECTD2	555.8244202	276.3322356	0.497157422	-1.008225
SERPINB10	3.301927249	0	0	-12.13092	NOL6	469.6818179	1014.500704	0.46296845	-1.111014	LRRC32	252.0471133	125.3038065	0.497144383	-1.008263
HLA-DMB	3.301927249	0	0	-12.13092	GSAP	87.96161254	190.0105371	0.462930182	-1.111133	PIERCE2	93.55460539	46.47028587	0.496718314	-1.0095
ENSG000002	3.301927249	0	0	-12.13092	CES2	124.47398	268.903801	0.462894089	-1.111246	LIMCH1	6402.436936	3179.065449	0.496539908	-1.010018
PRAMEF4	3.301927249	0	0	-12.13092	EBPL	73.02473494	157.7865279	0.462807161	-1.111517	ORC5	389.6274154	193.3495823	0.496242242	-1.010884
RPSAP36	3.301927249	0	0	-12.13092	FAM234B	232.3514293	502.2500746	0.462620995	-1.112097	KIZ	685.7002254	340.2288787	0.496177289	-1.011072
RPL21P80	3.301927249	0	0	-12.13092	DAGLB	68.87560227	148.897146	0.462571675	-1.112251	SAMSN1	209.1220591	103.7283167	0.496018053	-1.011535
TWF2-DT	3.301927249	0	0	-12.13092	CASP5	10.78774493	23.33462736	0.462306287	-1.113079	C1QB	1244.826573	617.3909408	0.495965425	-1.011689
RPL31P61	3.301927249	0	0	-12.13092	FAM114A1	300.3972051	650.0360479	0.462123918	-1.113648	APPL2	1420.929359	704.5227268	0.495818263	-1.012117
RPL12P40	3.301927249	0	0	-12.13092	ANXA2	800.7826047	1733.429461	0.461964344	-1.114147	IRF1	282.865101	140.2406841	0.49578645	-1.012209
UPK3B	3.301927249	0	0	-12.13092	EMP3	49.789592	107.7837549	0.461939668	-1.114224	NPR2	241.0406892	119.4950208	0.495746263	-1.012326
RPS2P44	3.301927249	0	0	-12.13092	IGIP	28.21410213	61.11450023	0.461659705	-1.115098	TRIM3	276.2612465	136.921378	0.49562282	-1.012685
PLA2G4B	3.301927249	0	0	-12.13092	C1QA	73.85456147	160.0088733	0.461565412	-1.115393	SNX21	195.9143501	97.0897044	0.495572194	-1.012833
ENSG000002	3.301927249	0	0	-12.13092	SLC25A11	245.6286539	532.2517384	0.461489623	-1.11563	ACTN1	3750.989355	1858.811435	0.495552309	-1.012891
ENSG000002	3.301927249	0	0	-12.13092	DUS1L	354.3359297	767.8203574	0.461482854	-1.115651	MBNL1	2334.462565	1156.778188	0.495522269	-1.012978
MIR3150BHC	3.301927249	0	0	-12.13092	NDUFAF3	189.2004496	410.0227379	0.461438921	-1.115788	TNFRSF10A	77.04496914	38.17202053	0.495451176	-1.013185
DDX11-AS1	3.301927249	0	0	-12.13092	PTRH1	69.7054288	151.1194915	0.461260345	-1.116347	CD28	38.52248457	19.08601027	0.495451176	-1.013185
MEF2C-AS2	3.301927249	0	0	-12.13092	ALPK3	34.8527144	75.55974574	0.461260345	-1.116347	LMF2	458.9678876	227.3724701	0.495399518	-1.013336
MINDY2-DT	3.301927249	0	0	-12.13092	RARG	48.12993894	104.4502368	0.460793009	-1.117809	MTFMT	224.5310529	111.1967555	0.495239986	-1.0138
GNAO1-DT	3.301927249	0	0	-12.13092	WDR19	597.475104	1296.738578	0.460752163	-1.117937	TNKS1BP1	2257.417596	1117.77634	0.495157096	-1.014042
ENSG000002	3.301927249	0	0	-12.13092	TTC14	387.5289911	841.1577577	0.46070905	-1.118072	RPL27A	3600.201344	1781.637567	0.494871647	-1.014874
USP46-DT	3.301927249	0	0	-12.13092	CEP170B	1219.015178	2646.813446	0.460559538	-1.11854	RANBP10	355.5075005	175.9232251	0.494850952	-1.014934
ZSWIM5P3	3.301927249	0	0	-12.13092	NOS1AP	92.1107452	200.0110917	0.460528186	-1.118639	CD46	3068.591057	1517.75273	0.494608992	-1.01564
MAST4-IT1	3.301927249	0	0	-12.13092	EXOC3	651.4138287	1415.63406	0.460156934	-1.119802	HLA-C	911.3319207	450.5958076	0.494436547	-1.016143
LINC02362	3.301927249	0	0	-12.13092	THBS1	1592.437118	3461.303058	0.460068677	-1.120079	CD200	67.13918739	33.19306133	0.494391765	-1.016273
HNRNPA1P4	3.301927249	0	0	-12.13092	MCF2L	492.0871343	1070.05934	0.459869014	-1.120705	PMS2P4	130.9764475	64.7264696	0.494184037	-1.01688
TRPC6P2	3.301927249	0	0	-12.13092	BTBD9	530.2591548	1153.397295	0.459736777	-1.12112	TBXAS1	226.7323378	112.026582	0.49409177	-1.017149
EGFLAM-AS	3.301927249	0	0	-12.13092	CPNE9	19.9158368	43.33573653	0.459570747	-1.121641	TJP3	500.7922994	247.2883069	0.493794148	-1.018018
DMXL1-DT	3.301927249	0	0	-12.13092	HS1BP3	212.4355925	462.2478563	0.459570747	-1.121641	NOX4	184.9079259	91.28091867	0.493656063	-1.018422
ENSG000002	3.301927249	0	0	-12.13092	FAM153A	26.55444907	57.78098203	0.459570747	-1.121641	TFCP2	1294.355482	638.9664307	0.493656063	-1.018422
ENSG000002	3.301927249	0	0	-12.13092	NPIPA5	26.55444907	57.78098203	0.459570747	-1.121641	ANXA2	1622.346922	800.7826047	0.49359517	-1.0186
NGFR-AS1	3.301927249	0	0	-12.13092	ITPKA	13.27722453	28.89049102	0.459570747	-1.121641	LIMD1	334.5952946	165.1354801	0.493537963	-1.018767
ENSG000002	3.301927249	0	0	-12.13092	NCF1	13.27722453	28.89049102	0.459570747	-1.121641	ATN1	4323.323411	2131.824364	0.493098517	-1.020052
EEF1A1P35	3.301927249	0	0	-12.13092	ABCB5	6.638612267	14.44524551	0.459570747	-1.121641	ABHD4	286.1670282	141.0705107	0.492965635	-1.020441
ANKRD17-D	3.301927249	0	0	-12.13092	ANKRD55	6.638612267	14.44524551	0.459570747	-1.121641	HEMK1	197.0149925	97.0897044	0.492803635	-1.020915
EDIL3-DT	3.301927249	0	0	-12.13092	C1QTNF6	6.638612267	14.44524551	0.459570747	-1.121641	RRBP1	5728.843777	2823.069867	0.492781786	-1.020979
LINC01340	3.301927249	0	0	-12.13092	ASPDH	6.638612267	14.44524551	0.459570747	-1.121641	SLC7A6	250.9464709	123.6441535	0.492711266	-1.021186
ENSG000002	3.301927249	0	0	-12.13092	RPS3P3	6.638612267	14.44524551	0.459570747	-1.121641	RARA	323.5888704	159.3266944	0.492373839	-1.022174
TRIM36-IT1	3.301927249	0	0	-12.13092	URGCP	241.4795212	525.584702	0.459449296	-1.122022	CCDC142	133.1777324	65.55629614	0.492246676	-1.022547
C12orf29P1	3.301927249	0	0	-12.13092	STAT5A	155.1775617	337.7965104	0.459381779	-1.122234	IFIT3	158.4925079	78.00369414	0.49216013	-1.0228
ADAMTS16-I	3.301927249	0	0	-12.13092	TMEM9B	141.9003372	308.9060193	0.459364105	-1.12229	BMT2	183.8072835	90.45109214	0.492097432	-1.022984
ST3GAL1P1	3.301927249	0	0	-12.13092	TMEM101	102.0686636	222.2345463	0.459283515	-1.122543	EMP3	101.2591023	49.789592	0.491704853	-1.024136
LINC02381	3.301927249	0	0	-12.13092	STARD3	255.5865723	556.6975385	0.459112093	-1.123082	KCNE3	25.31477557	12.447398	0.491704853	-1.024136
SNHG18	3.301927249	0	0	-12.13092	DEF8	104.5581432	227.7904099	0.459010295	-1.123402	GPRASP2	297.1734524	146.0494699	0.491462036	-1.024848
TUBAP15	3.301927249	0	0	-12.13092	SLC66A1	97.91953094	213.3451644	0.458972347	-1.123521	STARD3NL	527.2077174	258.9058784	0.491088939	-1.025944
MAD2L1-DT	3.301927249	0	0	-12.13092	FOLR2	58.08785734	126.6736914	0.458562916	-1.124808	FKBP11	94.6552478	46.47028587	0.49094252	-1.026374
SMIM15-AS1	3.301927249	0	0	-12.13092	ABCC5	1316.934708	2872.381511	0.458481822	-1.125064	SYNE4	94.6552478	46.47028587	0.49094252	-1.026374
LINC02728	3.301927249	0	0	-12.13092	ANKMY1	337.7393991	736.7075209	0.458444348	-1.125181	ARG2	580.0385534	284.6305009	0.490709625	-1.027059
ENSG000002	3.301927249	0	0	-12.13092	DEAF1	221.5636844	483.3601382	0.458382202	-1.125377	ARL14EP	270.7580344	132.7722453	0.490372319	-1.028051
DDX18P4	3.301927249	0	0	-12.13092	HYAL1	22.4053164	48.89160018	0.458265148	-1.125746	EIF2AK4	1696.089964	831.4861864	0.490237077	-1.028448
SETP12	3.301927249	0	0	-12.13092	AHNAK2	1550.945791	3384.63214	0.458231715	-1.125851	PLCE1	1355.991457	664.6910532	0.490188231	-1.028592
RN7SKP253	3.301927249	0	0	-12.13092	FGFR4	114.5160616	250.0138646	0.458038844	-1.126458	RPL12P20	22.01284833	10.78774493	0.490065837	-1.028953
RNA5SP33	3.301927249	0	0	-12.13092	ZC3H6	231.5216028	505.5835928	0.457929423	-1.126803	MIATNB	22.01284833	10.78774493	0.490065837	-1.028953
Y_RNA.123	3.301927249	0	0	-12.13092	ZBTB48	177.5828781	387.7992833	0.45792472	-1.126818	COL6A1	4285.901569	2100.290956	0.490046475	-1.02901
RN7SKP57	3.301927249	0	0	-12.13092	PRMT7	234.0110824	511.1394565	0.45782238	-1.12714	ACVRL1	128.7751627	63.06681654	0.489743637	-1.029901
ENSG000002	3.301927249	0	0	-12.13092	EFCAB14	574.2399611	1254.514014	0.457738977	-1.127403	IFIT1	128.7751627	63.06681654	0.489743637	-1.029901
ENSG000002	3.301927249	0	0	-12.13092	AP1G2	559.3030835	1222.290005	0.457586237	-1.127884	NDST1	957.5589022	468.8519914	0.489632534	-1.030229
OSGEPL1-AS	3.301927249	0	0	-12.13092	CA5B	72.1949084	157.7865279	0.457547988	-1.128005	LAD1	210.2227015	102.8984901	0.489473731	-1.030697
OXR1-AS1	3.301927249	0	0	-12.13092	ERCC1	417.4027463	912.2728125	0.457541582	-1.128025	GOLGB1	19658.5742	9617.689522	0.489236372	-1.031396
IGLV3-13	3.301927249	0	0	-12.13092	SIGIRR	128.6231127	281.1267011	0.457527201	-1.128071	SELENOS	366.5139246	179.2425312	0.489046989	-1.031955
ENSG000002	3.301927249	0	0	-12.13092	TMC7	65.55629614	143.3412824	0.457344144	-1.128648	HSPA12B	40.7237694	19.9158368	0.489046989	-1.031955
ENSG000002	3.301927249	0	0	-12.13092	RAP1GAP	289.6094601	633.3684569	0.457252737	-1.128936	NDRG2	629.5674621	307.8656439	0.489011365	-1.03206
ENSG000002	3.301927249	0	0	-12.13092	FAM120A	3715.13339	8130.450876	0.456940635	-1.129921	XRN1	3548.47115	1735.167281	0.488990105	-1.032123
ENSG000002	3.301927249	0	0	-12.13092	SAT1	433.999277	950.0526854	0.45681601	-1.130315	GPR108	845.2933757	413.2536136	0.488887794	-1.032425
ENSG000002	3.301927249	0	0	-12.13092	DYNC1I1	61.40716347	134.4519005	0.456722168	-1.130611	GRIA2	59.43469048	29.04392867	0.488669638	-1.033069
ENSG000002	3.301927249	0	0	-12.13092	PLCB3	493.7467874	1081.171068	0.456677766	-1.130752	REPIN1	869.5075089	424.8711851	0.488634291	-1.033173
TRPC6P5	3.301927249	0	0	-12.13092	NEO1	1406.555974	3080.170812	0.456648693	-1.130843	CYRIA	315.8843735	154.3477352	0.48862099	-1.033212
OR4A42P	3.301927249	0	0	-12.13092	TAB1	189.2004496	414.4674288	0.456490514	-1.131343	PPCS	525.0064326	256.4163988	0.488406204	-1.033847
ENSG000002	3.301927249	0	0	-12.13092	LAMP5	18.25618373	40.00221833	0.456379283	-1.131695	ARHGAP31	368.7152095	180.0723577	0.488377895	-1.03393
KLC2-AS1	3.301927249	0	0	-12.13092	STAC2	18.25618373	40.00221833	0.456379283	-1.131695	AP1B1	1646.561055	804.1019108	0.48835232	-1.034006
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	9.128091867	20.00110917	0.456379283	-1.131695	ENSG000002	96.85653263	47.3001124	0.48835232	-1.034006
ENSG000002	3.301927249	0	0	-12.13092	MTMR3	718.6297779	1575.642933	0.456086695	-1.13262	SHROOM3	2255.216311	1101.17981	0.488281237	-1.034216

UBTFL1	3.301927249	0	0	-12.13092	WDR77	132.7722453	291.1272556	0.456062573	-1.132696	GPX3	115.5674537	56.42820427	0.488270724	-1.034247
ENSG000002	3.301927249	0	0	-12.13092	OSCP1	167.6249597	367.7981741	0.455752561	-1.133677	AKAP13	5516.41979	2691.957274	0.487989924	-1.035077
STX17-DT	3.301927249	0	0	-12.13092	PLCG1	1589.117811	3486.860031	0.455744652	-1.133702	FOXH1	18.71092108	9.128091867	0.487848344	-1.035495
ENSG000002	3.301927249	0	0	-12.13092	RBM5	657.2226144	1442.302205	0.45567608	-1.133919	CLN3	18.71092108	9.128091867	0.487848344	-1.035495
B3GAT1-DT	3.301927249	0	0	-12.13092	ENTREP1	29.8737552	65.55919115	0.45567608	-1.133919	FLJ20021	18.71092108	9.128091867	0.487848344	-1.035495
ENSG000002	3.301927249	0	0	-12.13092	ITGB5	634.817298	1393.410605	0.455585235	-1.134207	ABCC2	52.83083598	25.72462253	0.486924389	-1.03823
BRWD1-AS2	3.301927249	0	0	-12.13092	PARP11	121.9845004	267.7926283	0.455518515	-1.134418	ENSG000002	121.0706658	58.91768387	0.486638803	-1.039077
C10orf88B	3.301927249	0	0	-12.13092	TIAM2	175.0933985	384.4657651	0.45542	-1.13473	NTRK3	315.8843735	153.5179087	0.485993995	-1.04099
ENSG000002	3.301927249	0	0	-12.13092	FRAT1	20.74566333	45.55808199	0.455367356	-1.134897	CD4	148.5867262	72.1949084	0.48587724	-1.041336
ENSG000002	3.301927249	0	0	-12.13092	CCDC183	20.74566333	45.55808199	0.455367356	-1.134897	PAFAH2	194.8137077	94.6002248	0.485593267	-1.04218
ENSG000002	3.301927249	0	0	-12.13092	EEIG1	466.3625118	1024.501258	0.455209311	-1.135398	ZNF91	4393.764526	2133.484017	0.48557086	-1.042246
PSMC1P9	3.301927249	0	0	-12.13092	GYS1	458.894073	1008.94484	0.45482573	-1.136614	NGFR	80.34689639	39.00184707	0.485418216	-1.0427
ENSG000002	3.301927249	0	0	-12.13092	NDUFS7	171.7740924	377.7987287	0.454670912	-1.137105	CFAP70	567.9314868	275.5024091	0.485097966	-1.043652
ENSG000002	3.301927249	0	0	-12.13092	AP5B1	229.8619497	505.5835928	0.454646775	-1.137182	FASTK	234.4368347	113.6862351	0.484933331	-1.044142
LINC00944	3.301927249	0	0	-12.13092	ENSG000002	23.23514293	51.11394565	0.454575413	-1.137408	PAN2	857.4004423	415.7430932	0.484887892	-1.044277
ENSG000002	3.301927249	0	0	-12.13092	DCSTAMP	11.61757147	25.55697282	0.454575413	-1.137408	FPR3	261.9528951	126.9634596	0.484680498	-1.044894
DPPA4P3	3.301927249	0	0	-12.13092	NCKAP5L	197.4987149	435.5797107	0.453415781	-1.141093	BIK	46.22698148	22.4053164	0.484680498	-1.044894
RBISP3	3.301927249	0	0	-12.13092	CLK2P1	14.10705107	31.11283648	0.453415781	-1.141093	NLGN3	154.0899383	74.684388	0.484680498	-1.044894
OSBPL9P4	3.301927249	0	0	-12.13092	SYTL4	312.8446031	690.0382662	0.453372832	-1.14123	GSTT2B	15.40899383	7.4684388	0.484680498	-1.044894
CLEC12B	3.301927249	0	0	-12.13092	CLEC4E	30.70358173	67.78153662	0.452978544	-1.142485	BOLL	15.40899383	7.4684388	0.484680498	-1.044894
ENSG000002	3.301927249	0	0	-12.13092	LRP5	990.8128808	2187.899108	0.452860407	-1.142862	VPS33B	15.40899383	7.4684388	0.484680498	-1.044894
CLLU1	3.301927249	0	0	-12.13092	KIAA1671	773.3983291	1707.872488	0.452843133	-1.142917	CCDC152	15.40899383	7.4684388	0.484680498	-1.044894
FAHD2P1	3.301927249	0	0	-12.13092	SEC31B	130.2827657	287.7937374	0.45269493	-1.143389	ENSG000002	15.40899383	7.4684388	0.484680498	-1.044894
ENSG000002	3.301927249	0	0	-12.13092	TTC3P1	317.8235623	702.2611663	0.452571746	-1.143782	INAVA	58.33404806	28.21410213	0.483664396	-1.047922
GLIPR1-AS1	3.301927249	0	0	-12.13092	DFFB	52.2790716	115.5619641	0.452389954	-1.144361	BHLHE40	852.9978726	412.4237871	0.483499198	-1.048415
LINC02298	3.301927249	0	0	-12.13092	URB1	1573.351107	3477.970649	0.452376189	-1.144405	LAG3	42.92505424	20.74566333	0.483299642	-1.04901
ENSG000002	3.301927249	0	0	-12.13092	REX1BD	87.96161254	194.455228	0.452348921	-1.144492	RHOF	42.92505424	20.74566333	0.483299642	-1.04901
TBX3-AS1	3.301927249	0	0	-12.13092	NKPD1	19.08601027	42.22456379	0.452012017	-1.145567	NCEH1	199.2162773	96.25987787	0.483192835	-1.049329
ENSG000002	3.301927249	0	0	-12.13092	TPRG1L	248.1181335	548.9193293	0.452012017	-1.145567	NES	869.5075089	419.8922259	0.482908108	-1.050179
ENSG000002	3.301927249	0	0	-12.13092	BACE2	539.3872467	1193.399514	0.45197542	-1.145684	STRADB	235.5374771	113.6862351	0.482667287	-1.050899
C17orf49	3.301927249	0	0	-12.13092	AKR7A3	59.7475104	132.229555	0.451846869	-1.146094	GAA	82.54818122	39.8316736	0.482526362	-1.05132
ITFG2-AS1.1	3.301927249	0	0	-12.13092	NR1D1	190.0302761	421.1344652	0.451234206	-1.148052	MBLAC2	55.03212081	26.55444907	0.482526362	-1.05132
ENSG000002	3.301927249	0	0	-12.13092	RPS6KA4	190.0302761	421.1344652	0.451234206	-1.148052	YBX1P1	55.03212081	26.55444907	0.482526362	-1.05132
ENSG000002	3.301927249	0	0	-12.13092	IGHMBP2	279.6515417	620.0343841	0.451025861	-1.148718	CNIH3	27.51606041	13.27722453	0.482526362	-1.05132
ENSG000002	3.301927249	0	0	-12.13092	PITPNC1	130.2827657	288.9049102	0.450953795	-1.148948	SAMHD1	2199.083548	1060.51831	0.48225467	-1.052133
HSBP1P1	3.301927249	0	0	-12.13092	TLR1	106.2177963	235.5686191	0.450899601	-1.149122	BRAF	1657.567479	799.1229516	0.482105834	-1.052578
ENSG000002	3.301927249	0	0	-12.13092	SCARB2	2216.466671	4916.939337	0.450781781	-1.149499	C11orf54	158.4925079	76.34404107	0.481688643	-1.053827
ENSG000002	3.301927249	0	0	-12.13092	TRIM65	63.06681654	140.0077642	0.45045228	-1.150554	ENSG000002	39.62312699	19.08601027	0.481688643	-1.053827
DUXA	3.301927249	0	0	-12.13092	MYRFL	31.53340827	70.00388208	0.45045228	-1.150554	AXIN2	362.111355	174.263572	0.481243048	-1.055162
ENSG000002	3.301927249	0	0	-12.13092	CD55	355.1657563	788.9326393	0.450185147	-1.15141	TNFRSF1B	155.1905807	74.684388	0.481243048	-1.055162
HIF1AP1	3.301927249	0	0	-12.13092	SLC35F6	180.0723577	400.0221833	0.450155929	-1.151503	GLYCTK	51.73019357	24.894796	0.481243048	-1.055162
POC1B-GAL3	3.301927249	0	0	-12.13092	LBHD1	36.51236747	81.11560939	0.450127512	-1.151594	P2RY14	51.73019357	24.894796	0.481243048	-1.055162
LINC00924	3.301927249	0	0	-12.13092	AKR1C2	39.00184707	86.67147305	0.449996356	-1.152015	CCPG1	51.73019357	24.894796	0.481243048	-1.055162
TTC7B-AS1	3.301927249	0	0	-12.13092	SYNPO	204.9671537	455.5808199	0.449902948	-1.152314	SMARCC2	3334.946521	1604.884516	0.481232459	-1.055194
ENSG000002	3.301927249	0	0	-12.13092	TTC39A	224.8829905	500.0277291	0.449741039	-1.152834	PITPNC1	270.7580344	130.2827657	0.481177838	-1.055358
ENSG000002	3.301927249	0	0	-12.13092	FMNL1	102.8984901	228.9015827	0.44953158	-1.153506	HERPUD2	799.0663942	384.2096849	0.48082323	-1.056421
ENSG000002	3.301927249	0	0	-12.13092	PALMD	53.93872467	120.006655	0.449464446	-1.153721	EPHB4	807.8715336	388.3588176	0.480718532	-1.056736
ENSG000002	3.301927249	0	0	-12.13092	FKRP	132.7722453	295.5719466	0.449204489	-1.154556	DDI2	908.0299934	436.4887566	0.480698611	-1.056795
ENSG000002	3.301927249	0	0	-12.13092	ETFBKMT	68.87560227	153.3418369	0.449163801	-1.154686	RAB8B	409.4389789	196.6688884	0.480337483	-1.05788
ENSG000002	3.301927249	0	0	-12.13092	ZBTB7A	450.5958076	1004.500149	0.448577144	-1.156572	DCXR	1072.025713	514.4924507	0.479925476	-1.059118
LINC02284	3.301927249	0	0	-12.13092	CDHR2	12.447398	27.77931829	0.448081478	-1.158167	RRH	36.32119974	17.4263572	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	PKDREJ	12.447398	27.77931829	0.448081478	-1.158167	TSHZ1	823.2805274	394.9974299	0.479784735	-1.059541
HERC2P10	3.301927249	0	0	-12.13092	FGF18	12.447398	27.77931829	0.448081478	-1.158167	ZNF547	48.42826632	23.2351493	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	C11orf68	171.7740924	383.3545923	0.448081478	-1.158167	ENSG000002	24.21413316	11.61757147	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	PGAP4	84.6423064	188.8993643	0.448081478	-1.158167	SBDSP1	24.21413316	11.61757147	0.479784735	-1.059541
CD2BP2-DT	3.301927249	0	0	-12.13092	HCST	9.9579184	22.22345463	0.448081478	-1.158167	PLK3	108.9635992	52.2790716	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	PNLDC1	9.9579184	22.22345463	0.448081478	-1.158167	TEX11	12.10706658	5.808785734	0.479784735	-1.059541
ITFG1-AS1	3.301927249	0	0	-12.13092	ACTG1P14	9.9579184	22.22345463	0.448081478	-1.158167	FAM124B	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	DKKL1	4.9789592	11.11172731	0.448081478	-1.158167	DMRTA2	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	GIPC2	4.9789592	11.11172731	0.448081478	-1.158167	SMN1	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	CDH8	4.9789592	11.11172731	0.448081478	-1.158167	TCAF1	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	CNDP1	4.9789592	11.11172731	0.448081478	-1.158167	PARLP2	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	DHRS4	4.9789592	11.11172731	0.448081478	-1.158167	ENSG000002	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	OR5J2	4.9789592	11.11172731	0.448081478	-1.158167	SEMA6A-AS	12.10706658	5.808785734	0.479784735	-1.059541
AP1AR-DT	3.301927249	0	0	-12.13092	OR5K4	4.9789592	11.11172731	0.448081478	-1.158167	LINC03072	12.10706658	5.808785734	0.479784735	-1.059541
EIF5A2P1	3.301927249	0	0	-12.13092	PNPT1P1	4.9789592	11.11172731	0.448081478	-1.158167	ENSG000002	12.10706658	5.808785734	0.479784735	-1.059541
STAM-DT	3.301927249	0	0	-12.13092	ENSG000002	4.9789592	11.11172731	0.448081478	-1.158167	ENSG000002	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	OR2S2	4.9789592	11.11172731	0.448081478	-1.158167	ENSG000002	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	IYD	2.4894796	5.555863657	0.448081478	-1.158167	CCDC144BP.	12.10706658	5.808785734	0.479784735	-1.059541
ENSG000002	3.301927249	0	0	-12.13092	PRSS54	2.4894796	5.555863657	0.448081478	-1.158167	MICAL2	1660.869406	796.633472	0.479648471	-1.059951
ENSG000002	3.301927249	0	0	-12.13092	NHP2P1	2.4894796	5.555863657	0.448081478	-1.158167	ANO6	2401.601752	1151.799228	0.479596264	-1.060108
ENSG000002	3.301927249	0	0	-12.13092	ART4	2.4894796	5.555863657	0.448081478	-1.158167	ACAA1	372.0171367	178.4127047	0.479581952	-1.060151
LINC00622	3.301927249	0	0	-12.13092	HOXB1	2.4894796	5.555863657	0.448081478	-1.158167	PLIN4	347.8030036	166.7951332	0.479567834	-1.060193
ENSG000002	3.301927249	0	0	-12.13092	EQTN	2.4894796	5.555863657	0.448081478	-1.158167	PNRC1	1743.417587	835.6353191	0.479308758	-1.060973
ADAMTS7P3	3.301927249	0	0	-12.13092	PRM2	2.4894796	5.555863657	0.448081478	-1.158167	VPS50	661.4860922	316.9937357	0.479214513	-1.061256
DSP-AS1	3.301927249	0	0	-12.13092	MCHR1	2.4894796	5.555863657	0.448081478	-1.158167	TSC22D3	365.4132822	175.0933985	0.479165392	-1.061404
ENSG000002	3.301927249	0	0	-12.13092	RAB33A	2.4894796	5.555863657	0.448081478	-1.158167	LRGUK	211.3233439	101.2388371	0.47907077	-1.061689
OTULIN-DT	3.301927249	0	0	-12.13092	SLC35F4	2.4894796	5.555863657	0.448081478	-1.158167	IMPDH1	187.1092108	89.6212656	0.478978374	-1.061968
ENSG000002	3.301927249	0	0	-12.13092	PRXL2B	2.4894796	5.555863657	0.448081478	-1.158167	GYG2	93.55460539	44.8106328	0.478978374	-1.061968
ENSG000002	3.301927249	0	0	-12.13092	SNX29P1	2.4894796	5.555863657	0.448081478	-1.158167	RHOJ	93.55460539	44.8106328	0.478978374	-1.061968
ENSG000002	3.301927249	0	0	-12.13092	OR1K1	2.4894796	5.555863657	0.448081478	-1.158167	ARHGAP1	895.9229269	429.0203178	0.47885851	-1.062329
ENSG000002	3.301927249	0	0	-12.13092	CDX2	2.4894796	5.555863657	0.448081478	-1.158167	AGAP3	615.2591107	294.5884193	0.478803831	-1.062493
ENSG000002	3.301927249	0	0	-12.13092	CDH16	2.4894796	5.555863657	0.448081478	-1.158167	RNF213	8877.78173	4250.371504	0.47876503	-1.06261
ENSG000002	3.301927249	0	0	-12.13092	CHP2	2.4894796	5.555863657	0.448081478	-1.158167	BMPER	69.34047223	33.19306133	0.478696788	-1.062816
ENSG000002	3.301927249	0	0	-12.13092	DEFB123	2.4894796	5.555863657	0.448081478	-1.158167	KDELR2	1947.036434	931.895197	0.478622372	-1.06304
TMPOP2	3.301927249	0	0	-12.13092	OR10J5	2.4894796	5.555863657	0.448081478	-1.158167	JAM2	102.3597447	48.95976547	0.478310742	-1.06398
MIR548AX	3.301927249	0	0	-12.13092	ALKAL2	2.4894796	5.555863657	0.448081478	-1.158167	RBM44	45.12633907	21.57548987	0.478113011	-1.064576
DLGAP1-AS2	3.301927249	0	0	-12.13092	IL27	2.4894796	5.555863657	0.448081478	-1.158167	ABCC9	1504.578183	718.6297779	0.477628737	-1.066038
MIR3115	3.301927249	0	0	-12.13092	DIO3	2.4894796	5.555863657	0.448081478	-1.158167	NABP1	342.2997915	163.4758271	0.477580855	-1.066183
ENSG000002	3.301927249	0	0	-12.13092	CCT8L2	2.4894796	5.555863657	0.448081478	-1.158167	AUH	558.0257051	266.3743172	0.477351338	-1.066877
ZNF236-DT	3.301927249	0	0	-12.13092	OR10G6	2.4894796	5.555863657	0.448081478	-1.158167	GPRIN3	425.9486151	203.3075007	0.477305228	-1.067016
MIR4258	3.301927249	0	0	-12.13092	MANSC4	2.4894796	5.555863657	0.448081478	-1.158167	PNPO	86.95075089	41.49132667	0.477181925	-1.067389
PPIAP54	3.301927249	0	0	-12.13092	TRAV25	2.4894796	5.555863657	0.448081478	-1.158167	PXYLP1	431.4518272	205.7969803	0.476987157	-1.067978
BDP1P	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	FAM153CP	116.6680961	55.59837774	0.476551684	-1.069295
MIR4494	3.301927249	0	0	-12.13092	KCTD9P4	2.4894796	5.555863657	0.448081478	-1.158167	SYTL1	296.07281	141.0705107	0.476472361	-1.069536
ENSG000002	3.301927249	0	0	-12.13092	IMPDH1P8	2.4894796	5.555863657	0.448081478	-1.158167	NAT10	893.721642	425.7010116	0.476323938	-1.069985
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	THBS1	3343.751661	1592.437118	0.47624264	-1.070231
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	FHIT	41.82441182	19.9158368	0.476177331	-1.070429
ENSG000002	3.301927249	0	0	-12.13092	RPL29P17	2.4894796	5.555863657	0.448081478	-1.158167	HNRNPH1P1	41.82441182	19.9158368	0.476177331	-1.070429
ENSG000002	3.301927249	0	0	-12.13092	RPL7P46	2.4894796	5.555863657	0.448081478	-1.158167	BTBD7	62.73661773	29.8737552	0.476177331	-1.070429
MIR3909	3.301927249	0	0	-12.13092	RPL4P5	2.4894796	5.555863657	0.448081478	-1.158167	ZNF575	62.73661773	29.8737552	0.476177331	-1.070429

SNHG25	3.301927249	0	0	-12.13092	RPL30-AS1	2.4894796	5.555863657	0.448081478	-1.158167	FGD5	238.8394043	113.6862351	0.475994467	-1.070983
ENSG000002	3.301927249	0	0	-12.13092	CASC11	2.4894796	5.555863657	0.448081478	-1.158167	TNKS	197.0149925	93.77039827	0.475955647	-1.071101
ENSG000002	3.301927249	0	0	-12.13092	ARHGEF38-	2.4894796	5.555863657	0.448081478	-1.158167	SMARCA2	3712.46687	1766.70069	0.47588322	-1.071321
GAPLINC	3.301927249	0	0	-12.13092	FER1L6-AS2	2.4894796	5.555863657	0.448081478	-1.158167	EHD2	369.8158519	175.9232251	0.475704933	-1.071861
CEACAM16-	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	TTYH3	954.2569749	453.9151138	0.475673876	-1.071955
LINC01841	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	ZNF385B	101.2591023	48.12993894	0.475314691	-1.073045
ENSG000002	3.301927249	0	0	-12.13092	MIA	2.4894796	5.555863657	0.448081478	-1.158167	SLC39A13	130.9764475	62.23699	0.475176959	-1.073463
PTGES3L	3.301927249	0	0	-12.13092	MRPL12	2.4894796	5.555863657	0.448081478	-1.158167	FBN1	3913.884432	1859.641261	0.475139543	-1.073577
LINC02080	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	GIMAP6	80.34689639	38.17202053	0.475090168	-1.073727
ENSG000002	3.301927249	0	0	-12.13092	EIF1P5	2.4894796	5.555863657	0.448081478	-1.158167	MARCHF2	110.0642416	52.2790716	0.474986888	-1.07404
ENSG000002	3.301927249	0	0	-12.13092	ZIM2	2.4894796	5.555863657	0.448081478	-1.158167	SLC26A6	169.4989321	80.49317374	0.474888973	-1.074338
ENSG000002	3.301927249	0	0	-12.13092	SPATA31A3	2.4894796	5.555863657	0.448081478	-1.158167	SIPA1L3	5648.49688	2681.999356	0.474816471	-1.074558
SELENOKP1	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	UNC45A	377.5203488	179.2425312	0.474789059	-1.074641
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	2.4894796	5.555863657	0.448081478	-1.158167	STX11	29.71734524	14.10705107	0.474707648	-1.074889
ZNF887P	3.301927249	0	0	-12.13092	LINC02984	14.9368776	33.33518194	0.448081478	-1.158167	NIBAN3	29.71734524	14.10705107	0.474707648	-1.074889
ENSG000002	3.301927249	0	0	-12.13092	MYO3A	7.4684388	16.66759097	0.448081478	-1.158167	GEM	302.6766645	143.5599903	0.474301481	-1.076124
LINC00907	3.301927249	0	0	-12.13092	EPX	7.4684388	16.66759097	0.448081478	-1.158167	GSDMB	444.6595362	210.7759395	0.474016461	-1.076991
EIF1P6	3.301927249	0	0	-12.13092	SLC2A14	7.4684388	16.66759097	0.448081478	-1.158167	C7orf31	239.9400468	113.6862351	0.473811007	-1.077616
CARD8-AS1	3.301927249	0	0	-12.13092	MAPT	7.4684388	16.66759097	0.448081478	-1.158167	DNASE1L1	162.8950776	77.1738676	0.47376427	-1.077759
ENSG000002	3.301927249	0	0	-12.13092	FAM86JP	7.4684388	16.66759097	0.448081478	-1.158167	TMEM59	1558.509661	737.7157882	0.473346946	-1.07903
ENSG000002	3.301927249	0	0	-12.13092	NEK9	1024.005942	2285.682309	0.448008867	-1.158401	SCAMP2	1176.586743	556.8136039	0.473244839	-1.079341
LINC02135	3.301927249	0	0	-12.13092	COPG1	1589.947638	3553.530395	0.447427617	-1.160274	DNAJC17	112.2655265	53.10889814	0.473065061	-1.079889
IGFL2-AS1	3.301927249	0	0	-12.13092	ZFYVE27	107.8774493	241.1244827	0.447393181	-1.160385	PDGFRB	2221.096396	1050.560391	0.472991804	-1.080113
ENSG000002	3.301927249	0	0	-12.13092	PDGFRA	92.94057174	207.7893008	0.447282759	-1.160741	UAP1L1	64.93790256	30.70358173	0.472814497	-1.080654
ENSG000002	3.301927249	0	0	-12.13092	AIG1	334.4200929	747.8192483	0.447193749	-1.161028	GLMP	528.3083598	249.7777865	0.472787875	-1.080735
CSAG2	3.301927249	0	0	-12.13092	SLC41A1	226.5426436	506.6947655	0.447098843	-1.161334	EIF4B	3319.537528	1568.372148	0.472467064	-1.081714
ZNF497-AS1	3.301927249	0	0	-12.13092	BMP5	214.0952456	478.9154472	0.447041846	-1.161518	SLC25A6	191.5117804	90.45109214	0.472300409	-1.082223
ENSG000002	3.301927249	0	0	-12.13092	PDLIM7	491.2573078	1101.172177	0.446122158	-1.164489	SCAF11	6068.942283	2866.220846	0.472276834	-1.082295
ENSG000002	3.301927249	0	0	-12.13092	MAN1B1	866.3389008	1942.329935	0.446030762	-1.164785	GLIS3	697.8072919	329.4411337	0.472109044	-1.082808
ENSG000002	3.301927249	0	0	-12.13092	TRMT2A	142.7301637	320.0177467	0.446007027	-1.164862	FERMT3	135.3790172	63.89664307	0.471983357	-1.083192
ENSG000002	3.301927249	0	0	-12.13092	SEC31A	2389.07059	5356.963738	0.445974755	-1.164966	TMEM25	152.9892959	72.1949084	0.471895161	-1.083462
ENSG000002	3.301927249	0	0	-12.13092	RTL8C	306.2059908	686.704748	0.445906325	-1.165187	EFCAB14	1217.310512	574.2399611	0.471728417	-1.083972
ENSG000002	3.301927249	0	0	-12.13092	FAM241A	33.19306133	74.44857301	0.445852217	-1.165363	HOMEZ	1008.188453	475.4906036	0.471628694	-1.084277
BUD13P1	3.301927249	0	0	-12.13092	EPHB4	388.3588176	871.1594214	0.445795348	-1.165547	ETFRF1	267.4561072	126.1336331	0.471604984	-1.084349
ENSG000002	3.301927249	0	0	-12.13092	PRKD2	653.0734818	1467.859178	0.444915624	-1.168396	RTN1	276.2612465	130.2827657	0.471592623	-1.084387
ENSG000002	3.301927249	0	0	-12.13092	CCDC106	46.47028587	104.4502368	0.444903595	-1.168435	TSPAN33	52.83083598	24.894796	0.471217151	-1.085536
ZNF30-AS1	3.301927249	0	0	-12.13092	REXO2	273.842756	615.5896932	0.444846233	-1.168621	HOXD4	17.61027866	8.298265334	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	HTT	2795.685591	6288.126487	0.444597544	-1.169428	AGAP10P	17.61027866	8.298265334	0.471217151	-1.085536
SLC46A2-AS	3.301927249	0	0	-12.13092	ENSG000002	20.74566333	46.66925472	0.444525276	-1.169663	ADAM7	8.80513933	4.149132667	0.471217151	-1.085536
MROH7-TTC	3.301927249	0	0	-12.13092	FANK1	158.4968679	356.6864468	0.444359098	-1.170202	MOGAT1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	USP46	247.2883069	556.6975385	0.444205857	-1.1707	MYOD1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	AP1M2	541.8767263	1220.067659	0.44413662	-1.170925	DUSP26	8.80513933	4.149132667	0.471217151	-1.085536
SNORD11B	3.301927249	0	0	-12.13092	NOXRED1	18.25618373	41.11339106	0.444044708	-1.171223	GPR55	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	MPPED2	36.51236747	82.22678213	0.444044708	-1.171223	DYNLRB2	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	PIGZ	52.2790716	117.7843095	0.443854294	-1.171842	LINC02910	8.80513933	4.149132667	0.471217151	-1.085536
ARFGEF1-DT	3.301927249	0	0	-12.13092	SERAC1	293.7585928	662.2589479	0.443570591	-1.172764	MRGPRE	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	GDPD3	15.76670413	35.55752741	0.443413963	-1.173274	HS6ST1P1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	LRRC73	15.76670413	35.55752741	0.443413963	-1.173274	SLC28A3	8.80513933	4.149132667	0.471217151	-1.085536
TTC23L-AS1	3.301927249	0	0	-12.13092	RPL6P10	15.76670413	35.55752741	0.443413963	-1.173274	SNORA65	8.80513933	4.149132667	0.471217151	-1.085536
DAP-DT	3.301927249	0	0	-12.13092	TLN2	318.6533888	718.9287572	0.443233611	-1.173861	IZUMO3	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	SMG1P2	44.8106328	101.1167186	0.443157506	-1.174109	ZNF321P	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	PLEKHA7	274.6725825	620.0343841	0.442995727	-1.174635	SPATA31D1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	DNAAF9	447.2765015	1010.056013	0.442823463	-1.175196	RPL21P28	8.80513933	4.149132667	0.471217151	-1.085536
OR51C4P	3.301927249	0	0	-12.13092	SPEG	172.6039189	390.0216287	0.442549608	-1.176089	SATB1-AS1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	PCDHGC5	26.55444907	60.0033275	0.442549608	-1.176089	LRRC37A6P	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	IL1RN	13.27722453	30.00166375	0.442549608	-1.176089	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	TCEA2	199.158368	450.0249562	0.442549608	-1.176089	POGLUT2P1	8.80513933	4.149132667	0.471217151	-1.085536
LRRC8D-DT	3.301927249	0	0	-12.13092	SHISA4	141.0705107	318.9065739	0.44235686	-1.176717	LBX2-AS1	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	RITA1	127.7932861	288.9049102	0.442336844	-1.176783	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	ZNFX1	1195.780035	2703.483256	0.442310871	-1.176867	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	PIGV	179.2425312	405.578047	0.441943376	-1.178067	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	ZNRF3	128.6231127	291.1272556	0.441810618	-1.1785	NKILA	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	TNFAIP3	115.3458881	261.1255919	0.441725713	-1.178777	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
OR7M1P	3.301927249	0	0	-12.13092	ICAM5	10.78774493	24.44580009	0.441292365	-1.180193	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
SFTPD-AS1	3.301927249	0	0	-12.13092	POU6F2	10.78774493	24.44580009	0.441292365	-1.180193	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	RFPL2	10.78774493	24.44580009	0.441292365	-1.180193	BTF3P16	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	NOD2	10.78774493	24.44580009	0.441292365	-1.180193	ENSG000002	8.80513933	4.149132667	0.471217151	-1.085536
ENSG000002	3.301927249	0	0	-12.13092	LERFS	10.78774493	24.44580009	0.441292365	-1.180193	MYC	463.3704573	218.2443783	0.470993295	-1.086222
MIR6885	3.301927249	0	0	-12.13092	ICAM3	64.7264696	146.6748005	0.441292365	-1.180193	DNAJC30	181.6059987	85.47213294	0.470645978	-1.087286
TPTE	3.301927249	0	0	-12.13092	CAV2	32.3632348	73.33740027	0.441292365	-1.180193	TAB3	3661.837319	1722.719883	0.470452326	-1.08788
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	32.3632348	73.33740027	0.441292365	-1.180193	PEX10	111.164884	52.2790716	0.470284047	-1.088396
LINC03061	3.301927249	0	0	-12.13092	MAP1S	566.7715223	1284.515678	0.441233636	-1.180385	PPP3CC	324.6895128	152.6880821	0.470258743	-1.088473
ENSG000002	3.301927249	0	0	-12.13092	SAT2	83.81247987	190.0105371	0.441093853	-1.180842	ABCG1	347.8030036	163.4758271	0.470024196	-1.089193
FGD5P1	3.301927249	0	0	-12.13092	SHROOM3	1101.17981	2497.9163	0.440839355	-1.181675	RPL28	2765.914392	1298.678525	0.469529545	-1.090712
ENSG000002	3.301927249	0	0	-12.13092	KMT2B	1560.073883	3539.08515	0.440812757	-1.181762	ZNF366	58.33404806	27.3842756	0.469438973	-1.09099
ENSG000002	3.301927249	0	0	-12.13092	NDUFB5	29.8737552	67.78153662	0.44073588	-1.182014	SVEP1	871.7087937	409.1044809	0.469313243	-1.091377
ENSG000002	3.301927249	0	0	-12.13092	GCN1	2459.605845	5581.42063	0.440677384	-1.182205	WASHC2A	1084.13278	508.683665	0.4692079	-1.091701
ENSG000002	3.301927249	0	0	-12.13092	SYBU	300.3972051	682.2600571	0.440297218	-1.18345	OGA	4490.621058	2106.929568	0.469184449	-1.091773
ENSG000002	3.301927249	0	0	-12.13092	PET100	27.3842756	62.22567296	0.440080023	-1.184162	CCDC113	90.25267814	42.3211532	0.46891853	-1.092591
ENSG000002	3.301927249	0	0	-12.13092	DTX3	151.8582556	345.5747195	0.439436819	-1.186272	PYM1	130.9764475	61.40716347	0.468841266	-1.092829
ENSG000002	3.301927249	0	0	-12.13092	SLC10A3	218.2443783	496.694211	0.439393843	-1.186413	ENTPD1	416.0428334	195.0092353	0.468723938	-1.09319
ENSG000002	3.301927249	0	0	-12.13092	YIPF3	552.6644712	1257.847532	0.439373181	-1.186481	HEPACAM2	285.0663858	133.6020719	0.468670031	-1.093356
ENSG000002	3.301927249	0	0	-12.13092	SMARCA2	1766.70069	4021.334115	0.439331983	-1.186617	DAPK2	81.44753881	38.17202053	0.468670031	-1.093356
ENSG000002	3.301927249	0	0	-12.13092	NUTM2A	16.59653067	37.77987287	0.439295567	-1.186736	INTS15	276.2612465	129.4529392	0.468588848	-1.093605
KDM5DP1	3.301927249	0	0	-12.13092	CROCC	8.298265334	18.88993643	0.439295567	-1.186736	TLR8	194.8137077	91.28091867	0.468554907	-1.09371
TEX28	3.301927249	0	0	-12.13092	NCF4	8.298265334	18.88993643	0.439295567	-1.186736	TMEM98	267.4561072	125.3038065	0.468502319	-1.093872
ENSG000002	3.301927249	0	0	-12.13092	HOXA2	8.298265334	18.88993643	0.439295567	-1.186736	GUCD1	380.822276	178.4127047	0.468493352	-1.0939
ENSG000002	3.301927249	0	0	-12.13092	FCRL6	8.298265334	18.88993643	0.439295567	-1.186736	ZNF282	313.6830886	146.8792964	0.468241042	-1.094677
POTEB3	3.301927249	0	0	-12.13092	NME9	8.298265334	18.88993643	0.439295567	-1.186736	MAN1C1	345.6017187	161.816174	0.468215768	-1.094755
ENSG000002	3.301927249	0	0	-12.13092	TMEM30A-I	8.298265334	18.88993643	0.439295567	-1.186736	ABCA10	136.4796596	63.89664307	0.46817704	-1.094874
ENSG000002	3.301927249	0	0	-12.13092	ANP32C	8.298265334	18.88993643	0.439295567	-1.186736	ADGRL2	3581.490423	1676.249597	0.468031294	-1.095323
ENSG000002	3.301927249	0	0	-12.13092	CLEC4F	41.49132667	94.44968217	0.439295567	-1.186736	SLC15A3	246.5439013	115.3458881	0.467851314	-1.095878
ENSG000002	3.301927249	0	0	-12.13092	LPP	1501.156199	3420.189667	0.43891022	-1.188002	SETD1B	1876.59532	877.9564723	0.467845392	-1.095896
ENSG000002	3.301927249	0	0	-12.13092	BTBD19	30.70358173	70.00388208	0.438598272	-1.189028	NPIPB13	214.6252712	100.4090105	0.467834053	-1.095931
ENSG000002	3.301927249	0	0	-12.13092	GLUL	2449.647926	5586.976494	0.438456816	-1.189493	TMEM168	996.0813867	465.5326852	0.467364104	-1.097381
ENSG000002	3.301927249	0	0	-12.13092	FAM229A	103.7283167	236.6797918	0.438264357	-1.190127	PDCD7	399.5331971	186.71097	0.467322794	-1.097509
ENSG000002	3.301927249	0	0	-12.13092	ERICH2	36.51236747	83.33795486	0.438124112	-1.190588	CES2	266.3554647	124.47398	0.467322794	-1.097509
ENSG000002	3.301927249	0	0	-12.13092	OLFML2A	180.0723577	411.1339106	0.437989553	-1.191032	RFTN1	367.614567	171.7740924	0.467266827	-1.097681
ENSG000002	3.301927249	0	0	-12.13092	CYB561	374.2517665	854.4918305	0.437981679	-1.191058	MAP3K8	234.4368347	109.5371024	0.467235034	-1.09778
ENSG000002	3.301927249	0	0	-12.13092	CASTOR2	194.1794088	443.3579198	0.437974377	-1.191082	TNS3	2129.743076	994.9620135	0.467174668	-1.097966
ENSG000002	3.301927249	0	0	-12.13092	MSH4	28.21410213	64.44801842	0.437780755	-1.19172	SDAD1	740.7323462	346.0376644	0.467156141	-1.098023

ENSG000002	3.301927249	0	0	-12.13092	BEAN1	14.10705107	32.22400921	0.437780755	-1.19172	LRSAM1	318.0856583	148.5389495	0.466977827	-1.098574
ENSG000002	3.301927249	0	0	-12.13092	DNAJC4	175.9232251	402.2445288	0.437353929	-1.193127	MEGF6	184.9079259	86.30195947	0.466729368	-1.099342
OR10X1	3.301927249	0	0	-12.13092	TMEM219	372.5921135	852.269485	0.43717641	-1.193713	PRKAA1	1657.567479	773.3983291	0.466586331	-1.099784
ENSG000002	3.301927249	0	0	-12.13092	LRRC71	19.9158368	45.55808199	0.437152662	-1.193791	BRD1	1549.704522	722.7789106	0.466397884	-1.100367
ENSG000002	3.301927249	0	0	-12.13092	ACAD10	459.7238995	1052.280577	0.436883384	-1.19468	TARBP2	83.64882364	39.00184707	0.46625697	-1.100803
ENSG000002	3.301927249	0	0	-12.13092	GALNT15	97.0897044	222.2345463	0.436879441	-1.194693	MIA2	1005.987168	468.8519914	0.466061602	-1.101407
ENSG000002	3.301927249	0	0	-12.13092	PTOV1	756.8017984	1732.318288	0.436872256	-1.194717	MTERF1	308.1798766	143.5599903	0.465831812	-1.102119
ENSG000002	3.301927249	0	0	-12.13092	UBC	8933.912458	20451.13412	0.436841908	-1.194817	KLHDC1	172.8008594	80.49317374	0.465814661	-1.102172
ENSG000002	3.301927249	0	0	-12.13092	KLHDC9	77.1738676	176.6764643	0.436808988	-1.194926	CXCL16	359.9100701	167.6249597	0.465741233	-1.102399
ENSG000002	3.301927249	0	0	-12.13092	CPVL	82.98265334	190.0105371	0.436726587	-1.195198	ITGA5	497.4903722	231.5216028	0.465379062	-1.103522
ENSG000002	3.301927249	0	0	-12.13092	GMPPA	272.1831029	623.3679023	0.436633169	-1.195506	ARMH4	183.8072835	85.47213294	0.4650095	-1.104668
ENSG000002	3.301927249	0	0	-12.13092	ZFYVE9	745.184227	1706.761315	0.436607169	-1.195592	CLDN15	66.03854498	30.70358173	0.464934255	-1.104901
ENSG000002	3.301927249	0	0	-12.13092	GORASP1	164.3056536	376.687556	0.43618551	-1.196986	LDLRAP1	424.8479727	197.4987149	0.464869148	-1.105103
ENSG000002	3.301927249	0	0	-12.13092	PNKD	253.9269192	582.2545113	0.436109836	-1.197237	SORBS2	2652.548223	1232.292402	0.464569274	-1.106034
ENSG000002	3.301927249	0	0	-12.13092	YIF1A	209.1162864	480.02662	0.43563477	-1.198809	PCDHGA7	108.9635992	50.61941854	0.464553474	-1.106083
ENSG000002	3.301927249	0	0	-12.13092	MROH2A	11.61757147	26.66814555	0.43563477	-1.198809	TRIM52	791.3618973	367.6131543	0.46453229	-1.106149
ENSG000002	3.301927249	0	0	-12.13092	SCGB2A2	5.808785734	13.33407278	0.43563477	-1.198809	RASGRF2	223.4304105	103.7283167	0.46425335	-1.107016
ENSG000002	3.301927249	0	0	-12.13092	GPR171	5.808785734	13.33407278	0.43563477	-1.198809	FBXL9P	14.30835141	6.638612267	0.463967656	-1.107904
ENSG000002	3.301927249	0	0	-12.13092	GPR141	5.808785734	13.33407278	0.43563477	-1.198809	RBM46	14.30835141	6.638612267	0.463967656	-1.107904
ENSG000002	3.301927249	0	0	-12.13092	OR51B2	5.808785734	13.33407278	0.43563477	-1.198809	BBS1	14.30835141	6.638612267	0.463967656	-1.107904
ENSG000002	3.301927249	0	0	-12.13092	LIMK1	145.2196433	333.3518194	0.43563477	-1.198809	ENSG000002	14.30835141	6.638612267	0.463967656	-1.107904
ENSG000002	3.301927249	0	0	-12.13092	MCOLN1	154.3477352	354.4641013	0.435439681	-1.199455	MIR4639	14.30835141	6.638612267	0.463967656	-1.107904
ENSG000002	3.301927249	0	0	-12.13092	KLF9	405.7851748	932.2739217	0.435263891	-1.200038	TCF25	983.9743202	456.4045934	0.463837911	-1.108307
ENSG000002	3.301927249	0	0	-12.13092	PIWIL4	43.98080627	101.1167186	0.434950885	-1.201076	NFIC	3469.224896	1609.033648	0.463802058	-1.108419
ENSG000002	3.301927249	0	0	-12.13092	ELAPOR1	190.8601027	438.9132289	0.434847004	-1.20142	TRIM68	231.1349074	107.0476228	0.463139142	-1.110482
ENSG000002	3.301927249	0	0	-12.13092	LTBR	337.7393991	776.7097393	0.43483348	-1.201465	WWC1	2205.687402	1021.516463	0.463128393	-1.110516
ENSG000002	3.301927249	0	0	-12.13092	RBL2	1081.263973	2486.804573	0.434800541	-1.201574	CACNA1H	852.9978726	394.9974299	0.463069654	-1.110699
ENSG000002	3.301927249	0	0	-12.13092	EPS15	1128.564085	2597.921846	0.43441033	-1.20287	SPNS2	62.73661773	29.04392867	0.462950183	-1.111071
ENSG000002	3.301927249	0	0	-12.13092	TBC1D13	136.0915515	313.3507103	0.434310653	-1.203201	CCDC136	222.3297681	102.8984901	0.462819221	-1.111479
ENSG000002	3.301927249	0	0	-12.13092	AURKAIP1	171.7740924	395.5774924	0.434236264	-1.203448	TEF	222.3297681	102.8984901	0.462819221	-1.111479
ENSG000002	3.301927249	0	0	-12.13092	FGF2	20.74566333	47.78042745	0.434187479	-1.20361	TMEM39A	812.2741032	375.9114196	0.462788876	-1.111574
LINC03077	3.301927249	0	0	-12.13092	SREBF2	1002.430452	2309.016936	0.434137332	-1.203777	SNPH	48.42826632	22.4053164	0.462649566	-1.112008
ENSG000002	3.301927249	0	0	-12.13092	CAT	543.5363794	1252.291668	0.434033375	-1.204122	LRRFIP2	1455.049274	672.9893186	0.462519951	-1.112412
ENSG000002	3.301927249	0	0	-12.13092	MFSD11	249.7777865	575.5874749	0.433952783	-1.20439	ARHGAP29	2248.612456	1039.772646	0.462406336	-1.112767
TMEM275	3.301927249	0	0	-12.13092	HSD17B14	89.6212656	206.678128	0.433627237	-1.205473	ENSG000002	68.23982981	31.53340827	0.462096819	-1.113733
ENSG000002	3.301927249	0	0	-12.13092	DNAAF3	59.7475104	137.7854187	0.433627237	-1.205473	USP45	449.0621058	207.4566333	0.461977599	-1.114105
ENSG000002	3.301927249	0	0	-12.13092	ADAMTS7	68.87560227	158.8977006	0.433458773	-1.206033	CLK3	783.6574004	361.8043685	0.461686916	-1.115013
MIR7978	3.301927249	0	0	-12.13092	FMO5	53.93872467	124.4513459	0.433412144	-1.206189	PBXIP1	521.7045053	240.6496947	0.461275861	-1.116298
ENSG000002	3.301927249	0	0	-12.13092	ZCCHC4	111.1967555	256.680901	0.433210087	-1.206861	IQCN	430.3511848	198.3285415	0.460852784	-1.117622
PRIM2BP	3.301927249	0	0	-12.13092	MIR99AHG	48.12993894	111.1172731	0.433145429	-1.207077	RNF213-AS1	79.24625397	36.51236747	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	SIGLEC14	24.06496947	55.55863657	0.433145429	-1.207077	AKR1B1	59.43469048	27.3842756	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	24.06496947	55.55863657	0.433145429	-1.207077	PGC	19.81156349	9.128091867	0.460745658	-1.117958
MYOCOS	3.301927249	0	0	-12.13092	SCMH1	541.8767263	1251.180496	0.43309237	-1.207253	SLC14A2	19.81156349	9.128091867	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	APBB2	602.4540632	1391.18826	0.433049991	-1.207395	WNT7A	19.81156349	9.128091867	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	FHL3	42.3211532	97.78320037	0.432805973	-1.208208	SLC22A1	19.81156349	9.128091867	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	CFLAR	562.6223896	1300.072096	0.432762453	-1.208353	ENSG000002	19.81156349	9.128091867	0.460745658	-1.117958
ENSG000002	3.301927249	0	0	-12.13092	LIMA1	426.5308382	985.6102128	0.432758136	-1.208367	TGFB1	933.344769	429.8501443	0.460548083	-1.118576
LINC02808	3.301927249	0	0	-12.13092	LHX4	9.128091867	21.1122819	0.432359321	-1.209697	ENOX1	183.8072835	84.6423064	0.460494844	-1.118743
TMDD1	3.301927249	0	0	-12.13092	FBXO39	9.128091867	21.1122819	0.432359321	-1.209697	BTN2A2	183.8072835	84.6423064	0.460494844	-1.118743
ENSG000002	3.301927249	0	0	-12.13092	NSUN5P2	9.128091867	21.1122819	0.432359321	-1.209697	CARD16	144.1841565	66.38612267	0.460425918	-1.118959
ENSG000002	3.301927249	0	0	-12.13092	TBC1D9B	116.1757147	268.903801	0.432034483	-1.210782	FRA10AC1	248.7451861	114.5160616	0.460374986	-1.119119
ENSG000002	3.301927249	0	0	-12.13092	EPHA5	39.8316736	92.22733671	0.431885762	-1.211278	MOK	479.8800935	220.7338579	0.459977109	-1.120366
ENSG000002	3.301927249	0	0	-12.13092	PGM2	361.8043685	837.8242395	0.431838029	-1.211438	ZBTB7B	1158.976464	532.7486344	0.459671659	-1.121324
ENSG000002	3.301927249	0	0	-12.13092	TNFRSF12A	30.70358173	71.11505481	0.431745174	-1.211748	TMC6	346.7023611	159.3266944	0.459548916	-1.12171
ENSG000002	3.301927249	0	0	-12.13092	BRD2	43.15097974	100.0055458	0.431485868	-1.212615	PHACTR2	681.2976557	312.8446031	0.459189314	-1.122839
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	21.57548987	50.00277291	0.431485868	-1.212615	PROCR	50.62955115	23.23514293	0.458924529	-1.123671
ENSG000002	3.301927249	0	0	-12.13092	LSS	225.7128171	523.3623565	0.431274459	-1.213322	PCDHGA3	50.62955115	23.23514293	0.458924529	-1.123671
ENSG000002	3.301927249	0	0	-12.13092	FAM3A	105.3879697	244.4580009	0.431108695	-1.213876	UBE2CP5	25.31477557	11.61757147	0.458924529	-1.123671
ENSG000002	3.301927249	0	0	-12.13092	CCNI	3242.962092	7527.084083	0.430839095	-1.214779	IPO13	309.280519	141.9003372	0.458807873	-1.124038
ENSG000002	3.301927249	0	0	-12.13092	TUBG2	202.4776741	470.0260654	0.430779672	-1.214978	GMPPB	208.0214167	95.43005134	0.458751089	-1.124217
ENSG000002	3.301927249	0	0	-12.13092	PTGER3	53.10889814	123.3401732	0.430588808	-1.215617	LRCH1	635.0706742	291.2691132	0.458640471	-1.124564
ENSG000002	3.301927249	0	0	-12.13092	RFPL3S	40.66150013	94.44968217	0.430509656	-1.215883	ACSL1	1730.209878	793.3141659	0.458507477	-1.124983
ENSG000002	3.301927249	0	0	-12.13092	IL2RA	28.21410213	65.55919115	0.430360742	-1.216382	SETD7	1516.68525	695.394635	0.458496339	-1.125018
ENSG000002	3.301927249	0	0	-12.13092	DGKI	28.21410213	65.55919115	0.430360742	-1.216382	EFCAB13	137.580302	63.06681654	0.458400044	-1.125321
ENSG000002	3.301927249	0	0	-12.13092	PALD1	103.7283167	241.1244827	0.430185751	-1.216968	GIT2	1441.841565	660.5419206	0.458123789	-1.126191
ENSG000002	3.301927249	0	0	-12.13092	ADHFE1	15.76670413	36.66870014	0.429977176	-1.217668	NUDCD3	527.2077174	241.4795212	0.458034876	-1.126471
ENSG000002	3.301927249	0	0	-12.13092	TJP3	247.2883069	575.5874749	0.429627672	-1.218841	CORO1B	784.7580428	359.3148889	0.4578671	-1.126999
ENSG000002	3.301927249	0	0	-12.13092	ATOSB	126.9634596	295.5719466	0.429551793	-1.219096	ENSG000002	30.81798766	14.10705107	0.457753804	-1.127356
ENSG000002	3.301927249	0	0	-12.13092	CLDN4	336.9095725	784.4879484	0.429464306	-1.21939	D2HGDH	402.8351244	184.2214904	0.457312382	-1.128748
ENSG000002	3.301927249	0	0	-12.13092	KRT10-AS1	117.8353677	274.4596647	0.429335829	-1.219822	MCEE	139.7815869	63.89664307	0.45711774	-1.129362
ENSG000002	3.301927249	0	0	-12.13092	CEBPB	178.4127047	415.5786016	0.429311577	-1.219903	KIAA0930	430.3511848	196.6688884	0.456996275	-1.129746
ENSG000002	3.301927249	0	0	-12.13092	CKAP4	586.6873591	1366.74246	0.429259627	-1.220078	SERINC2	672.4925164	307.0358173	0.456563917	-1.131111
ENSG000002	3.301927249	0	0	-12.13092	AFDN	4651.17772	10842.82351	0.428963702	-1.221073	AKAP7	83.64882364	38.17202053	0.456336609	-1.13183
ENSG000002	3.301927249	0	0	-12.13092	KLF3	413.2536136	963.3867582	0.428959201	-1.221088	MYH1	41.82441182	19.08601027	0.456336609	-1.13183
ENSG000002	3.301927249	0	0	-12.13092	FHIP1B	375.0815931	874.4929396	0.428913232	-1.221242	SBF2	2422.513958	1105.328942	0.456273508	-1.132029
ENSG000002	3.301927249	0	0	-12.13092	ZNF581	51.44924507	120.006655	0.428719933	-1.221893	MIPEP	515.1006508	234.8409089	0.455912662	-1.133171
ENSG000002	3.301927249	0	0	-12.13092	RAP2B	167.6249597	391.1328015	0.428562777	-1.222422	NBPF14	978.4711081	445.6168484	0.45542157	-1.134725
ENSG000002	3.301927249	0	0	-12.13092	TMTC1	319.4832153	745.5969028	0.428493217	-1.222656	PSKH1	222.3297681	101.2388371	0.455354395	-1.134938
ENSG000002	3.301927249	0	0	-12.13092	USP21	310.3551235	724.4846209	0.428380554	-1.223035	SEMA4B	783.6574004	356.8254093	0.455333427	-1.135005
ENSG000002	3.301927249	0	0	-12.13092	ELMO1	126.9634596	296.6831193	0.427942985	-1.224509	EIF4ENIF1	1150.171325	523.6205426	0.455254388	-1.135255
ENSG000002	3.301927249	0	0	-12.13092	FAM117A	143.5599903	335.5741649	0.42780406	-1.224978	TXK	122.1713082	55.59837774	0.455085392	-1.135791
ENSG000002	3.301927249	0	0	-12.13092	LAMP2	2966.629857	6934.829017	0.427787023	-1.225035	MED8	335.695937	152.6880821	0.454840424	-1.136568
ENSG000002	3.301927249	0	0	-12.13092	KCNG3	146.8792964	343.352374	0.427780052	-1.225059	IFT172	1175.486101	534.4082875	0.454627483	-1.137243
ENSG000002	3.301927249	0	0	-12.13092	GTF2IRD2B	68.87560227	161.1200461	0.427480031	-1.226071	KMT2D	13553.31071	6154.823398	0.454119553	-1.138856
ENSG000002	3.301927249	0	0	-12.13092	IFIH1	216.5847252	506.6947655	0.427446147	-1.226185	GOLGA8A	102.3597447	46.47028587	0.453989857	-1.139268
ENSG000002	3.301927249	0	0	-12.13092	PDGFA	78.83352067	184.4546734	0.427386952	-1.226385	AFAP1L2	248.7451861	112.8564085	0.453702885	-1.14018
ENSG000002	3.301927249	0	0	-12.13092	AKAP8	395.8272564	926.718058	0.427128028	-1.22726	EPB41L4A	525.0064326	238.1602151	0.453632947	-1.140403
DUS4L-BCA1	3.301927249	0	0	-12.13092	MXD4	241.4795212	565.5869203	0.426953864	-1.227848	B4GALNT3	162.8950776	73.85456147	0.453387313	-1.141184
ENSG000002	3.301927249	0	0	-12.13092	BEND5	49.789592	116.6731368	0.426744265	-1.228556	PLXNB3	162.8950776	73.85456147	0.453387313	-1.141184
ENSG000002	3.301927249	0	0	-12.13092	PRR19	36.51236747	85.56030032	0.426744265	-1.228556	TBC1D2B	998.2826716	452.2554607	0.453033468	-1.14231
ENSG000002	3.301927249	0	0	-12.13092	SGPP2	69.7054288	163.3423915	0.426744265	-1.228556	ENSG000002	82.54818122	37.342194	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	PILRA	33.19306133	77.7820912	0.426744265	-1.228556	CCDC162P	33.01927249	14.9368776	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	RAMP3	16.59653067	38.8910456	0.426744265	-1.228556	ATP6V1FNB	33.01927249	14.9368776	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	FAM149B1P	9.9579184	23.33462736	0.426744265	-1.228556	DIRAS3	16.50963624	7.4684388	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	GABRG2	6.638612267	15.55641824	0.426744265	-1.228556	GRM5	16.50963624	7.4684388	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	PNCK	6.638612267	15.55641824	0.426744265	-1.228556	ZNF154	88.0513933	39.8316736	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ADGRD2	6.638612267	15.55641824	0.426744265	-1.228556	ENSG000002	44.02569665	19.9158368	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	LCTL	6.638612267	15.55641824	0.426744265	-1.228556	PERM1	38.52248457	17.4263572	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	TKTL2	3.319306133	7.77820912	0.426744265	-1.228556	FBXW10	22.01284833	9.9579184	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	SERP2	3.319306133	7.77820912	0.426744265	-1.228556	TUBA1B-AS1	22.01284833	9.9579184	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	KRT83	3.319306133	7.77820912	0.426744265	-1.228556	ENSG000002	22.01284833	9.9579184	0.452368465	-1.14443

ENSG000002	3.301927249	0	0	-12.13092	FAM20C	3.319306133	7.77820912	0.426744265	-1.228556	CRYBB1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	YIPF7	3.319306133	7.77820912	0.426744265	-1.228556	CDH20	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	MYOZ1	3.319306133	7.77820912	0.426744265	-1.228556	TPTE2	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	GLTPD2	3.319306133	7.77820912	0.426744265	-1.228556	CLEC1A	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	LHFPL1	3.319306133	7.77820912	0.426744265	-1.228556	TAL1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	OR7A17	3.319306133	7.77820912	0.426744265	-1.228556	GABRB1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	IGLV1-50	3.319306133	7.77820912	0.426744265	-1.228556	GLIPR1L1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	UFSP1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	LRRC19	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	EXOSC3P1	3.319306133	7.77820912	0.426744265	-1.228556	SUV39H2-D1	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	CTXN2	3.319306133	7.77820912	0.426744265	-1.228556	ENSG000002	11.00642416	4.9789592	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	CHCHD2P6	3.319306133	7.77820912	0.426744265	-1.228556	ITIH1	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	FTH1P23	3.319306133	7.77820912	0.426744265	-1.228556	LRP6	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	EOGT-DT	3.319306133	7.77820912	0.426744265	-1.228556	SLC5A7	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	DPH6-DT	3.319306133	7.77820912	0.426744265	-1.228556	RPE65	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	ACTL8	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	EQTN	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	GALNT8	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	MADCAM1-	3.319306133	7.77820912	0.426744265	-1.228556	RXFP2	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	SLC6A14	3.319306133	7.77820912	0.426744265	-1.228556	MGARP	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	EIF3FP1	3.319306133	7.77820912	0.426744265	-1.228556	BEST4	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	STRA8	5.503212081	2.4894796	0.452368465	-1.14443
CYP4F30P	3.301927249	0	0	-12.13092	ENSG000002	3.319306133	7.77820912	0.426744265	-1.228556	TMPRSS11D	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	SLC43A1	90.45109214	212.2339917	0.426185699	-1.230446	GPR78	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	CROT	73.85456147	173.3429461	0.42606038	-1.23087	PRXL2B	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	TLCD4	188.3706231	442.2467471	0.425940099	-1.231278	CD1A	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	SMIM29	50.61941854	118.8954823	0.425747199	-1.231931	HMHB1	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	TMEM276	97.91953094	230.0127554	0.425713482	-1.232045	SMIM43	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	UCKL1	311.18495	731.1516573	0.425609307	-1.232398	LEAP2	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	ITGAL	40.66150013	95.5608549	0.425503729	-1.232756	NEUROD6	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	SLC66A2	115.3458881	271.1261465	0.425432551	-1.232998	PSCA	5.503212081	2.4894796	0.452368465	-1.14443
ENSG000002	3.301927249	0	0	-12.13092	CNNM4	356.8254093	838.9354122	0.425331204	-1.233341	KLK13	5.503212081	2.4894796	0.452368465	-1.14443
MRPS24	2.201284833	0	0	-12.13092	CRACR2A	34.02288787	80.00443666	0.425262514	-1.233574	OR2M4	5.503212081	2.4894796	0.452368465	-1.14443
ADGRL1	2.201284833	0	0	-12.13092	AP1B1	804.1019108	1892.327162	0.424927532	-1.234711	OR4C11	5.503212081	2.4894796	0.452368465	-1.14443
DEFB127	2.201284833	0	0	-12.13092	TRIM3	136.921378	322.2400921	0.42490485	-1.234788	KCNK7	5.503212081	2.4894796	0.452368465	-1.14443
SMPX	2.201284833	0	0	-12.13092	PDE3A	68.87560227	162.2312188	0.424552085	-1.235987	GSTA3	5.503212081	2.4894796	0.452368465	-1.14443
GGT1	2.201284833	0	0	-12.13092	ENSG000002	44.8106328	105.5614095	0.424498242	-1.23617	OR8H2	5.503212081	2.4894796	0.452368465	-1.14443
F9	2.201284833	0	0	-12.13092	OPRK1	870.4880335	2051.224862	0.424374748	-1.236589	ASB18	5.503212081	2.4894796	0.452368465	-1.14443
AQP9	2.201284833	0	0	-12.13092	IL1R1	616.5611143	1453.413933	0.424215773	-1.23713	MIXL1	5.503212081	2.4894796	0.452368465	-1.14443
SULT2A1	2.201284833	0	0	-12.13092	ZDHHC24	58.91768387	138.8965914	0.424183799	-1.237239	GK2	5.503212081	2.4894796	0.452368465	-1.14443
ZNRF4	2.201284833	0	0	-12.13092	NOC2L	353.5061032	833.3795486	0.424183799	-1.237239	ZNF502	5.503212081	2.4894796	0.452368465	-1.14443
PITX3	2.201284833	0	0	-12.13092	AGAP3	294.5884193	694.4829571	0.424183799	-1.237239	FOXO6	5.503212081	2.4894796	0.452368465	-1.14443
CCL7	2.201284833	0	0	-12.13092	ETHE1	146.0494699	344.4635467	0.423991076	-1.237894	TSGA13	5.503212081	2.4894796	0.452368465	-1.14443
APOA4	2.201284833	0	0	-12.13092	TBRG1	125.3038065	295.5719466	0.423936737	-1.238079	EEF1B2P2	5.503212081	2.4894796	0.452368465	-1.14443
SLCO1B3	2.201284833	0	0	-12.13092	MMS19	278.8217152	657.814257	0.423860858	-1.238337	GUSBP9	5.503212081	2.4894796	0.452368465	-1.14443
REG1A	2.201284833	0	0	-12.13092	FBXL12	104.5581432	246.6803464	0.423860858	-1.238337	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
CFHR3	2.201284833	0	0	-12.13092	P3H1	408.2746544	963.3867582	0.423791017	-1.238575	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
APOA1	2.201284833	0	0	-12.13092	SPG7	439.8080627	1037.835331	0.423774417	-1.238632	ZNF503-AS1	5.503212081	2.4894796	0.452368465	-1.14443
FKBP1B	2.201284833	0	0	-12.13092	CC2D2A	199.158368	470.0260654	0.42371771	-1.238825	PRELID1P5	5.503212081	2.4894796	0.452368465	-1.14443
MLANA	2.201284833	0	0	-12.13092	PML	175.0933985	413.3562561	0.423589569	-1.239261	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
MAGEB4	2.201284833	0	0	-12.13092	OGFR	248.94796	587.8103749	0.423517465	-1.239507	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
TNFSF11	2.201284833	0	0	-12.13092	CDH17	14.10705107	33.33518194	0.423188063	-1.240629	RNASEH2B-,	5.503212081	2.4894796	0.452368465	-1.14443
NEUROG3	2.201284833	0	0	-12.13092	CCSER1	595.815451	1408.967023	0.42287395	-1.2417	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
TYRL	2.201284833	0	0	-12.13092	CD37	35.68254093	84.44912759	0.422532973	-1.242864	DNAJC17P1	5.503212081	2.4894796	0.452368465	-1.14443
GLIS2	2.201284833	0	0	-12.13092	TWIST1	35.68254093	84.44912759	0.422532973	-1.242864	RPL30-AS1	5.503212081	2.4894796	0.452368465	-1.14443
SRD5A3	2.201284833	0	0	-12.13092	APBB1	139.4108576	330.0183012	0.422433717	-1.243203	CASC11	5.503212081	2.4894796	0.452368465	-1.14443
VPREB3	2.201284833	0	0	-12.13092	KRTAP5-7	21.57548987	51.11394565	0.42210574	-1.244324	GLUD1P3	5.503212081	2.4894796	0.452368465	-1.14443
CD68	2.201284833	0	0	-12.13092	CFAP299	10.78774493	25.55697282	0.42210574	-1.244324	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
ACTN4	2.201284833	0	0	-12.13092	ENSG000002	10.78774493	25.55697282	0.42210574	-1.244324	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
H19	2.201284833	0	0	-12.13092	BCAT2	472.1712975	1118.950941	0.421976764	-1.244765	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
FIBCD1	2.201284833	0	0	-12.13092	OPLAH	461.3835526	1093.393968	0.42197375	-1.244775	CAP2P1	5.503212081	2.4894796	0.452368465	-1.14443
TRPM1	2.201284833	0	0	-12.13092	FYB2	39.8316736	94.44968217	0.421723744	-1.24563	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
SAA2	2.201284833	0	0	-12.13092	TUB	87.131786	206.678128	0.421582036	-1.246115	ST20-AS1	5.503212081	2.4894796	0.452368465	-1.14443
HRK	2.201284833	0	0	-12.13092	PKP2	1074.625361	2549.030246	0.421582036	-1.246115	ZIM2	5.503212081	2.4894796	0.452368465	-1.14443
EMX1	2.201284833	0	0	-12.13092	TRPT1	138.5810311	328.9071285	0.421337876	-1.24695	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
SMPD4	2.201284833	0	0	-12.13092	THAP10	18.25618373	43.33573653	0.421273185	-1.247172	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
FGFBP2	2.201284833	0	0	-12.13092	GANC	157.6670413	374.4652105	0.421045899	-1.247951	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
IL21	2.201284833	0	0	-12.13092	NAGS	25.72462253	61.11450023	0.420925025	-1.248365	SPATA31A3	5.503212081	2.4894796	0.452368465	-1.14443
DPT	2.201284833	0	0	-12.13092	MFAP3L	92.1107452	218.9010281	0.420787175	-1.248837	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
SLC27A3	2.201284833	0	0	-12.13092	SYMPK	1223.16431	2907.939038	0.420629282	-1.249379	TRG-AS1	5.503212081	2.4894796	0.452368465	-1.14443
UCN2	2.201284833	0	0	-12.13092	AK8	63.06681654	150.0083187	0.420422128	-1.250089	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
KAAG1	2.201284833	0	0	-12.13092	ZNF83	866.3389008	2061.225417	0.420302842	-1.250499	ENSG000002	5.503212081	2.4894796	0.452368465	-1.14443
POMZP3	2.201284833	0	0	-12.13092	MED8	152.6880821	363.3534832	0.420219123	-1.250786	HIVEP2	3439.507551	1554.265097	0.451885938	-1.145969
PPIAP26	2.201284833	0	0	-12.13092	HSD11B1L	29.8737552	71.11505481	0.420076386	-1.251276	MAGI1	1491.370474	673.8191451	0.451812046	-1.146205
KCNA6	2.201284833	0	0	-12.13092	RUFY1	14.9368776	35.55752741	0.420076386	-1.251276	PUS7L	865.1049392	390.8482972	0.451792932	-1.146266
DLG5	2.201284833	0	0	-12.13092	MYOCD	7.4684388	17.7787637	0.420076386	-1.251276	IL17RD	238.8394043	107.8774493	0.451673582	-1.146648
MSGN1	2.201284833	0	0	-12.13092	AKNAD1	7.4684388	17.7787637	0.420076386	-1.251276	ADGRG6	274.0599617	123.6441535	0.451157304	-1.148298
LYSET	2.201284833	0	0	-12.13092	OR51L1	7.4684388	17.7787637	0.420076386	-1.251276	PLXDC1	263.0535375	118.6651943	0.451106628	-1.14846
CCT8	2.201284833	0	0	-12.13092	CCDC152	7.4684388	17.7787637	0.420076386	-1.251276	JADE2	454.5653179	204.9671537	0.450908034	-1.149095
NTAN1	2.201284833	0	0	-12.13092	PPM1F-AS1	7.4684388	17.7787637	0.420076386	-1.251276	FZD8	112.2655265	50.61941854	0.450890136	-1.149152
MEGF11	2.201284833	0	0	-12.13092	ZNF76	220.7338579	525.584702	0.419977707	-1.251615	EFHB	95.75589022	43.15097974	0.450635252	-1.149968
PAGE5	2.201284833	0	0	-12.13092	CAMSAP3	379.2307257	903.3834307	0.419789331	-1.252263	CCN2	897.0235693	404.1255217	0.450518287	-1.150342
GIP	2.201284833	0	0	-12.13092	RBPMS	112.8564085	268.903801	0.419690641	-1.252602	URGCP	536.0128567	241.4795212	0.450510689	-1.150367
ENSG000001	2.201284833	0	0	-12.13092	TECTA	41.49132667	98.8943731	0.419551946	-1.253079	SPI1	338.9978642	152.6880821	0.45041016	-1.150689
SPATC1L	2.201284833	0	0	-12.13092	ADCY10	34.02288787	81.11560939	0.419437	-1.253474	PDGFB	79.24625397	35.68254093	0.450274166	-1.151124
POM121L15P	2.201284833	0	0	-12.13092	RYR1	386.6991645	922.2733671	0.419289094	-1.253983	EMILIN2	226.7323378	102.0686636	0.450172501	-1.15145
HCRT	2.201284833	0	0	-12.13092	ABLIM3	72.1949084	172.2317734	0.419172996	-1.254382	DDX56	341.1991491	153.5179087	0.449936376	-1.152207
FGF19	2.201284833	0	0	-12.13092	MECR	95.43005134	227.7904099	0.418937967	-1.255191	PHF21B	256.449683	115.3458881	0.449779804	-1.152709
DNAJA1P5	2.201284833	0	0	-12.13092	POLRMTP1	38.17202053	91.11616398	0.418937967	-1.255191	PLIN3	384.1242033	172.6039189	0.449344034	-1.154108
C3orf49	2.201284833	0	0	-12.13092	TRIM25	497.0660935	1186.732477	0.418852693	-1.255485	UNC5A	264.1541799	118.6651943	0.449227017	-1.154483
DNAJC5G	2.201284833	0	0	-12.13092	AQP11	46.47028587	111.1172731	0.41820938	-1.257703	RNF207	184.9079259	82.98265334	0.448778239	-1.155925
IGF2BP2-AS1	2.201284833	0	0	-12.13092	SMG1P6	46.47028587	111.1172731	0.41820938	-1.257703	BAZ2A	4047.062165	1815.660455	0.448636661	-1.156381
FAM183BP	2.201284833	0	0	-12.13092	TCTN3	275.5024091	658.9254297	0.418108631	-1.25805	GAB2	752.8394127	337.7393991	0.448620773	-1.156432
INTS4P1	2.201284833	0	0	-12.13092	RASAL3	27.3842756	65.55919115	0.417703073	-1.25945	ENPP1	523.9057902	234.8409089	0.448250264	-1.157624
EN2	2.201284833	0	0	-12.13092	USP44	58.91768387	141.1189369	0.41750374	-1.260139	SIAE	361.0107125	161.816174	0.448230948	-1.157686
RNF183	2.201284833	0	0	-12.13092	ENSG000002	47.3001124	113.3396186	0.417330789	-1.260737	GET4	75.94432672	34.02288787	0.447997755	-1.158437
LINC00905	2.201284833	0	0	-12.13092	HHIPL1	31.53340827	75.55974574	0.417330789	-1.260737	LINC02035	35.22055732	15.76670413	0.447656293	-1.159537
SOST	2.201284833	0	0	-12.13092	TRPM5	15.76670413	37.77987287	0.417330789	-1.260737	LINC00632	2681.164926	1199.099341	0.447230728	-1.160909
OR2W6P	2.201284833	0	0	-12.13092	CNGA3	15.76670413	37.77987287	0.417330789	-1.260737	FHL3	94.6552478	42.3211532	0.447108366	-1.161304
PPDPFL	2.201284833	0	0	-12.13092	ATP2B1	1636.417924	3922.439742	0.417193898	-1.26121	R3HDM2	700.0085768	312.8446031	0.446915386	-1.161926
LINC00917	2.201284833	0	0	-12.13092	DNASE1	170.1144393	407.8003924	0.41715124	-1.261358	RAB3IL1	89.15203572	39.8316736	0.446783669	-1.162352

TNXB	2.201284833	0	0	-12.13092	WNK2	2121.036619	5084.726419	0.417138789	-1.261401	ELK3	534.9122143	238.9900416	0.446783669	-1.162352
MYL1	2.201284833	0	0	-12.13092	ANKRD52	508.683665	1220.067659	0.41693070	-1.26212	ESR2	29.71734524	13.27722453	0.446783669	-1.162352
TSPY2	2.201284833	0	0	-12.13092	TNFSF13	19.9158368	47.78042745	0.41681998	-1.262504	EME2	113.3661689	50.61941854	0.446512562	-1.163227
SOX14	2.201284833	0	0	-12.13092	TWSG1	436.4887566	1047.835886	0.416562138	-1.263396	SOD2	3132.428317	1398.257709	0.446381391	-1.163651
SPRY3	2.201284833	0	0	-12.13092	APOL2	324.4621745	778.9320847	0.416547451	-1.263447	DACH1	830.9850243	370.9324604	0.446376829	-1.163666
KLK7	2.201284833	0	0	-12.13092	ODC1	2708.553805	6502.582824	0.416535072	-1.26349	PCDH7	735.2291341	327.7814807	0.445822214	-1.16546
GKN1	2.201284833	0	0	-12.13092	MIOS	377.5710727	906.7169489	0.416415589	-1.263904	SELPLG	253.1477557	112.8564085	0.4458124	-1.165491
TACR3	2.201284833	0	0	-12.13092	NUDT22	112.8564085	271.1261465	0.416250554	-1.264476	ZNF609	2295.94008	1023.176116	0.445645827	-1.16603
CLDN20	2.201284833	0	0	-12.13092	IRF3	355.1657563	853.3806577	0.41618679	-1.264697	MYH13	24.21413316	10.78774493	0.445514397	-1.166456
NHLH1	2.201284833	0	0	-12.13092	FAM120C	126.1336331	303.3501557	0.415802104	-1.266031	TOGARAM2	24.21413316	10.78774493	0.445514397	-1.166456
MIR31HG	2.201284833	0	0	-12.13092	HSD17B1-A	128.6231127	310.0171921	0.414890258	-1.269198	ENSG000002	24.21413316	10.78774493	0.445514397	-1.166456
LDHAL6B	2.201284833	0	0	-12.13092	DBNDD2	8.298265334	20.00110917	0.414890258	-1.269198	IPP	424.8479727	189.2004496	0.445336831	-1.167031
PPP1R3B	2.201284833	0	0	-12.13092	TINAG	4.149132667	10.00055458	0.414890258	-1.269198	ZNF341	225.6316953	100.4090105	0.44501288	-1.168081
SPDYE2B	2.201284833	0	0	-12.13092	PTPN7	4.149132667	10.00055458	0.414890258	-1.269198	HDAC7	576.7366261	256.4163988	0.444598777	-1.169424
ENSG000001	2.201284833	0	0	-12.13092	CHRNA6	4.149132667	10.00055458	0.414890258	-1.269198	GLI3	1976.75378	878.7862988	0.444560323	-1.169549
ENSG000001	2.201284833	0	0	-12.13092	LMOD3	4.149132667	10.00055458	0.414890258	-1.269198	LPCAT2	337.8972218	150.1986025	0.444509729	-1.169713
CRMA	2.201284833	0	0	-12.13092	PITX2	4.149132667	10.00055458	0.414890258	-1.269198	PLA2G4C	61.63597531	27.3842756	0.444290456	-1.170425
TEX36	2.201284833	0	0	-12.13092	ENSG000001	4.149132667	10.00055458	0.414890258	-1.269198	TTC28	1502.376898	667.1805328	0.444083328	-1.171098
NF1P5	2.201284833	0	0	-12.13092	ARGFX	4.149132667	10.00055458	0.414890258	-1.269198	PLAU	112.2655265	49.789592	0.443498495	-1.172999
TEX26	2.201284833	0	0	-12.13092	NKAPL	4.149132667	10.00055458	0.414890258	-1.269198	RCN1P2	18.71092108	8.298265334	0.443498495	-1.172999
C11orf16	2.201284833	0	0	-12.13092	PATE2	4.149132667	10.00055458	0.414890258	-1.269198	YBX3	1555.207734	689.5858492	0.443404334	-1.173305
OR4D11	2.201284833	0	0	-12.13092	PDCD1LG2	4.149132667	10.00055458	0.414890258	-1.269198	NFKBIZ	592.14562	262.2251845	0.442839017	-1.175146
IDSP1	2.201284833	0	0	-12.13092	LINC03041	4.149132667	10.00055458	0.414890258	-1.269198	TIRAP	101.2591023	44.8106328	0.442534368	-1.176139
DMBT1L1	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	SPATA18	50.62955115	22.4053164	0.442534368	-1.176139
MAGEB6	2.201284833	0	0	-12.13092	ACKR4P1	4.149132667	10.00055458	0.414890258	-1.269198	CRYL1	183.8072835	81.32300027	0.442436223	-1.176459
ZNF285BP	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	RBFOX2	348.903646	154.3477352	0.442379256	-1.176644
GJA1P1	2.201284833	0	0	-12.13092	RPEP3	4.149132667	10.00055458	0.414890258	-1.269198	ARHGAP26	1016.993593	449.7659811	0.442250555	-1.177064
C8G	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	UACA	2570.000042	1136.032524	0.442035994	-1.177764
IRAG1-AS1	2.201284833	0	0	-12.13092	KDM4E	4.149132667	10.00055458	0.414890258	-1.269198	CDK5RAP3	95.75589022	42.3211532	0.44196919	-1.177982
GJD4	2.201284833	0	0	-12.13092	SCIRT	4.149132667	10.00055458	0.414890258	-1.269198	PRKG2	159.5931504	70.53525534	0.44196919	-1.177982
DEFB114	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	RAB7B	31.91863007	14.10705107	0.44196919	-1.177982
MAGEB10	2.201284833	0	0	-12.13092	SUMO2P6	4.149132667	10.00055458	0.414890258	-1.269198	POSTN	1975.653137	872.1476866	0.441447778	-1.179685
ENSG000001	2.201284833	0	0	-12.13092	TMEM200B	4.149132667	10.00055458	0.414890258	-1.269198	STAM2	1016.993593	448.9361546	0.441434595	-1.179728
TMEM151B	2.201284833	0	0	-12.13092	KLRF2	4.149132667	10.00055458	0.414890258	-1.269198	ARHGEF3	374.2184215	165.1354801	0.441281002	-1.18023
UCN3	2.201284833	0	0	-12.13092	CHMP4BP1	4.149132667	10.00055458	0.414890258	-1.269198	PPIL2	808.972176	356.8254093	0.441084898	-1.180872
PPIAP33	2.201284833	0	0	-12.13092	MYL12BP1	4.149132667	10.00055458	0.414890258	-1.269198	DAGLB	156.2912231	68.87560227	0.440687589	-1.182172
H2BC2P	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	CYB5R2	190.411138	83.81247987	0.440165847	-1.183881
LINC00670	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	10.00055458	0.414890258	-1.269198	PNISR	4590.779518	2020.627609	0.44014913	-1.183936
RTL3	2.201284833	0	0	-12.13092	PTOV1-AS2	103.7283167	250.0138646	0.414890258	-1.269198	ZNF277	486.483948	214.0952456	0.440086968	-1.184139
OR4K11P	2.201284833	0	0	-12.13092	MRNIP	12.447398	30.00166375	0.414890258	-1.269198	ZNF541	39.62312699	17.4263572	0.439802674	-1.185072
EEF1A1P27	2.201284833	0	0	-12.13092	SELP	12.447398	30.00166375	0.414890258	-1.269198	AQP7P1	26.41541799	11.61757147	0.439802674	-1.185072
LBX2	2.201284833	0	0	-12.13092	ENOSF1	532.7486344	1284.515678	0.414746697	-1.269698	PDZD7	26.41541799	11.61757147	0.439802674	-1.185072
OR2AP1	2.201284833	0	0	-12.13092	TSPAN5	137.7512045	332.2406467	0.414612739	-1.270164	XPOTP1	26.41541799	11.61757147	0.439802674	-1.185072
FAM216B	2.201284833	0	0	-12.13092	TSPAN31	79.6633472	192.2328825	0.414410616	-1.270867	TMEM232	66.03854498	29.04392867	0.439802674	-1.185072
OR1E1	2.201284833	0	0	-12.13092	IL16	67.2159492	162.2312188	0.414321915	-1.271176	LGI1	13.207709	5.808785734	0.439802674	-1.185072
WFDC9	2.201284833	0	0	-12.13092	ARAP1	999.1111462	2412.356	0.414164056	-1.271726	RNF17	13.207709	5.808785734	0.439802674	-1.185072
GARIN6	2.201284833	0	0	-12.13092	ABHD8	135.2617249	326.684783	0.414043543	-1.272146	BTC	13.207709	5.808785734	0.439802674	-1.185072
KCTD4	2.201284833	0	0	-12.13092	BRAT1	177.5828781	428.9126743	0.414030381	-1.272191	POLR2MP1	13.207709	5.808785734	0.439802674	-1.185072
LINC00304	2.201284833	0	0	-12.13092	THAP11	84.6423064	204.4557826	0.413988322	-1.272338	LINC01473	13.207709	5.808785734	0.439802674	-1.185072
C3orf22	2.201284833	0	0	-12.13092	IKBKE	63.89664307	154.4530097	0.413696329	-1.273356	RRS1-DT	13.207709	5.808785734	0.439802674	-1.185072
ENTR1P2	2.201284833	0	0	-12.13092	SNAPC4	375.0815931	906.7169489	0.413669992	-1.273448	C8orf89	13.207709	5.808785734	0.439802674	-1.185072
ENSG000001	2.201284833	0	0	-12.13092	RNF149	295.4182459	714.4840663	0.413470726	-1.274143	MIR3648-1	13.207709	5.808785734	0.439802674	-1.185072
MUC16	2.201284833	0	0	-12.13092	AHSA2P	205.7969803	497.8053837	0.413408507	-1.27436	ENSG000002	13.207709	5.808785734	0.439802674	-1.185072
MTHFD2P7	2.201284833	0	0	-12.13092	SMIM1	25.72462253	62.22567296	0.413408507	-1.27436	ENSG000002	13.207709	5.808785734	0.439802674	-1.185072
LINC00301	2.201284833	0	0	-12.13092	RXRA	521.9608895	1263.403396	0.413138742	-1.275302	PCED1A	628.4668197	276.3322356	0.439692641	-1.185433
ZNF716	2.201284833	0	0	-12.13092	MARF1	43.15097974	104.4502368	0.413124767	-1.275351	MMP14	1042.308368	458.0642464	0.439470948	-1.18616
PRKCZ-AS1	2.201284833	0	0	-12.13092	ATP11A	846.423064	2049.002517	0.4130903	-1.275471	SLC43A1	205.8201318	90.45109214	0.43946669	-1.186174
FAM133CP	2.201284833	0	0	-12.13092	ALG1	125.3038065	303.3501557	0.413066564	-1.275554	ANXA1	730.8265644	321.1428684	0.439424186	-1.186314
CALHM3	2.201284833	0	0	-12.13092	RASGRF2	103.7283167	251.1250373	0.41305446	-1.275596	L3HYPDH	126.5738779	55.59837774	0.439256335	-1.186865
PGPEP1L	2.201284833	0	0	-12.13092	AOAH	39.00184707	94.44968217	0.412937833	-1.276003	RTN4RL1	113.3661689	49.789592	0.439192684	-1.187074
C15orf32	2.201284833	0	0	-12.13092	RYR3	39.00184707	94.44968217	0.412937833	-1.276003	SMOC2	1307.563191	574.2399611	0.439168038	-1.187155
HOATZ	2.201284833	0	0	-12.13092	TYW1B	178.4127047	432.2461925	0.412757146	-1.276635	EFCAB6	540.4154264	237.3303885	0.439162868	-1.187172
SLC9B1P1	2.201284833	0	0	-12.13092	SNRK-AS1	17.4263572	42.22456379	0.412706625	-1.276811	EGFLAM	294.9721676	129.4529392	0.438864928	-1.188151
SERINC4	2.201284833	0	0	-12.13092	ZGPAT	30.70358173	74.44857301	0.412413301	-1.277837	HCLS1	471.0749542	206.6268068	0.438628301	-1.188929
MC2R	2.201284833	0	0	-12.13092	GABARAPL	166.7951332	404.4668742	0.412382679	-1.277944	ARHGAP18	478.7794511	209.9461129	0.438502765	-1.189342
C11orf87	2.201284833	0	0	-12.13092	OAS1	87.96161254	213.3451644	0.412297193	-1.278243	TSPAN13	709.9143585	311.18495	0.438341536	-1.189873
CALHM1	2.201284833	0	0	-12.13092	SCARF2	39.8316736	96.67202764	0.412028945	-1.279182	VPS53	197.0149925	86.30195947	0.438047675	-1.19084
DEFB128	2.201284833	0	0	-12.13092	CFAP157	13.27722453	32.22400921	0.412028945	-1.279182	FMN1	1707.096388	747.6737066	0.437979784	-1.191064
OR10T2	2.201284833	0	0	-12.13092	TMPRSS7	13.27722453	32.22400921	0.412028945	-1.279182	UBN2	2520.471133	1103.669289	0.437882138	-1.191385
ZNF501	2.201284833	0	0	-12.13092	ENSG000002	13.27722453	32.22400921	0.412028945	-1.279182	TMEM214	708.8137161	310.3551235	0.437851464	-1.191487
TMPRSS12	2.201284833	0	0	-12.13092	ENSG000002	13.27722453	32.22400921	0.412028945	-1.279182	ENSG000002	102.3597447	44.8106328	0.437775934	-1.191735
KRTAP19-5	2.201284833	0	0	-12.13092	TSPAN9	152.6880821	371.1316923	0.411412136	-1.281344	CALHM5	34.11991491	14.9368776	0.437775934	-1.191735
LCE2A	2.201284833	0	0	-12.13092	ATN1	2131.824364	5183.620792	0.411261635	-1.281872	CR1L	34.11991491	14.9368776	0.437775934	-1.191735
HSD3BP1	2.201284833	0	0	-12.13092	ITGAM	112.8564085	274.4596647	0.411194879	-1.282106	MBD5	1225.015009	536.0679406	0.43760112	-1.192312
TPM3P7	2.201284833	0	0	-12.13092	TCTN1	520.3012364	1265.625741	0.411101971	-1.282432	RGPD6	123.2719506	53.93872467	0.437558783	-1.192451
CYP26C1	2.201284833	0	0	-12.13092	PKD1P5	263.0550111	640.0354933	0.411000661	-1.282787	LINS1	479.8800935	209.9461129	0.437497024	-1.192655
TMEM202	2.201284833	0	0	-12.13092	ANPEP	177.5828781	432.2461925	0.410837345	-1.283361	PEX1	1407.72165	615.7312878	0.437395623	-1.192989
GPR15LG	2.201284833	0	0	-12.13092	F2RL1	45.64045934	111.1172731	0.410741355	-1.283698	MAP4	6794.265636	2970.778989	0.43724799	-1.193476
QRFP	2.201284833	0	0	-12.13092	UTY	191.6899292	466.6925472	0.410741355	-1.283698	SCARB1	861.803012	376.7412461	0.43715471	-1.193784
IFITM3P3	2.201284833	0	0	-12.13092	PRRX2	18.25618373	44.44690926	0.410741355	-1.283698	COL4A5	1435.237711	627.3488592	0.437104498	-1.19395
MAGEA6	2.201284833	0	0	-12.13092	MYPN	9.128091867	22.22345463	0.410741355	-1.283698	HOXA1	75.94432672	33.19306133	0.43707098	-1.194061
ATP6AP1-DT	2.201284833	0	0	-12.13092	ASGR1	9.128091867	22.22345463	0.410741355	-1.283698	PNKD	581.1391958	253.9269192	0.436946812	-1.19447
GATA3-AS1	2.201284833	0	0	-12.13092	AIM2	9.128091867	22.22345463	0.410741355	-1.283698	LIMK1	332.3940097	145.2196433	0.436890074	-1.194658
TMEM132E-I	2.201284833	0	0	-12.13092	LAP3P2	9.128091867	22.22345463	0.410741355	-1.283698	ATF7	277.3618889	121.1546739	0.436810819	-1.19492
OR2M2	2.201284833	0	0	-12.13092	ENSG000002	9.128091867	22.22345463	0.410741355	-1.283698	FBXL7	340.0985066	148.5389495	0.436752725	-1.195111
HSD3BP5	2.201284833	0	0	-12.13092	SNX29	316.1639092	770.0427029	0.410579709	-1.284266	SLFN11	402.8351244	175.9232251	0.436712725	-1.195244
MIR429	2.201284833	0	0	-12.13092	SLC11A1	68.87560227	167.7870824	0.410494069	-1.284567	TLN2	729.725922	318.6533888	0.436675441	-1.195367
Y_RNA.1	2.201284833	0	0	-12.13092	FZR1	376.7412461	917.8286762	0.410470119	-1.284651	PHLDB3	292.7708827	127.7932861	0.436495887	-1.19596
SNORD62	2.201284833	0	0	-12.13092	CD163	1935.155476	4715.817072	0.410354228	-1.285058	GNB3	41.82441182	18.25618373	0.436495887	-1.19596
RNA5SP119	2.201284833	0	0	-12.13092	PNPO	41.49132667	101.1167186	0.410331024	-1.28514	COX7A1	20.91220591	9.128091867	0.436495887	-1.19596
RNA5SP307	2.201284833	0	0	-12.13092	CLDN11	295.4182459	720.03993	0.410280366	-1.285318	LINC01341	20.91220591	9.128091867	0.436495887	-1.19596
RNU6-942P	2.201284833	0	0	-12.13092	LYPD6B	32.3632348	78.89326393	0.410215438	-1.285546	TPTEP2	20.91220591	9.128091867	0.436495887	-1.19596
SNORA33	2.201284833	0	0	-12.13092	PACS2	675.4787982	1646.757988	0.410187048	-1.285646	CHPF2	412.7409061	180.0723577	0.436284253	-1.19666
ENSG000002	2.201284833	0	0	-12.13092	IFITM2	287.1199805	700.0388208	0.410148655	-1.285781	COBL	1757.725939	766.7597168	0.436222565	-1.196864
RNU6-82P	2.201284833	0	0	-12.13092	MAST3	491.2573078	1197.844204	0.410117865	-1.28589	IRF5	70.44111464	30.70358173	0.435875864	-1.198011
Y_RNA.32	2.201284833	0	0	-12.13092	GPR108	413.2536136	1007.833667	0.410041485	-1.286158	FLRT3	542.6167112	236.500562	0.435851969	-1.19809
ENSG000002	2.201284833	0	0	-12.13092	ZFYVE26	1173.374718	2864.603302	0.409611592	-1.287672	RNPC3	1486.967904	648.0945226	0.435849705	-1.198097
RNU6-268P	2.201284833	0	0	-12.13092	FAM193B	639.7962572	1562.30886	0.409519701	-1.287995	LPXN	190.411138	82.98265334	0.435807769	-1.198236
Y_RNA.36	2.201284833	0	0	-12.13092	CDH1	1387.469964	3390.188004	0.409260478	-1.288909	DNAAF9	1026.899374	447.2765015	0.435560204	-1.199056
Y_RNA.38	2.201284833	0	0	-12.13092	NDRG2	307.8656439	752.2639392	0.409252162	-1.288938	ILDR1	177.203429	77.1738676	0.435510013	-1.199222
RNA5SP139	2.201284833	0	0	-12.13092	TMEM234	113.6862351	277.7931829	0.40924775	-1.288954	MTMR11	106.7623144	46.47028587	0.435268626	-1.200022

RNU105B	2.201284833	0	0	-12.13092	JMJD4	104.5581432	255.5697282	0.409117871	-1.289412	CDKL1	106.7623144	46.47028587	0.435268626	-1.200022
RNU6-1251P	2.201284833	0	0	-12.13092	BAHD1	180.9021843	442.2467471	0.409052606	-1.289642	PRKAR2B	434.7537544	189.2004496	0.435189915	-1.200283
SNORD113-3	2.201284833	0	0	-12.13092	SLC25A29	424.0413586	1036.724158	0.409020428	-1.289755	IGF2BP2	28.61670282	12.447398	0.434969678	-1.201013
Y_RNA.51	2.201284833	0	0	-12.13092	TLCD5	43.15097974	105.5614095	0.408776085	-1.290617	KLF4	208.0214167	90.45109214	0.434816249	-1.201522
Y_RNA.56	2.201284833	0	0	-12.13092	IFI6	212.4355925	520.0288383	0.408507331	-1.291566	ZNF552	603.1520441	262.2251845	0.434758013	-1.201715
Y_RNA.58	2.201284833	0	0	-12.13092	GOLGA8B	53.10889814	130.0072096	0.408507331	-1.291566	ICA1	1042.308368	453.0852872	0.43469409	-1.201928
Y_RNA.61	2.201284833	0	0	-12.13092	NEDD4L	1450.53678	3551.30805	0.40845141	-1.291764	EPSTI1	93.55460539	40.66150013	0.434628525	-1.202145
ENSG000002	2.201284833	0	0	-12.13092	SMARCA1	769.2491964	1883.43778	0.40842825	-1.291845	PIWIL4	101.2591023	43.98080627	0.434339287	-1.203106
Y_RNA.63	2.201284833	0	0	-12.13092	GAB3	29.04392867	71.11505481	0.408407597	-1.291918	DESI1	282.865101	122.8143269	0.434179849	-1.203635
VTRNA1-3	2.201284833	0	0	-12.13092	TNFSF15	29.04392867	71.11505481	0.408407597	-1.291918	SAV1	1816.059987	788.3352067	0.434090951	-1.203931
TDRKH-AS1	2.201284833	0	0	-12.13092	ACOX2	43.98080627	107.7837549	0.408046707	-1.293194	SUFU	217.9271984	94.6002248	0.434090951	-1.203931
LINC02408	2.201284833	0	0	-12.13092	SLC6A11	117.8353677	288.9049102	0.407869038	-1.293822	CHPT1	922.3383449	399.9763891	0.433654733	-1.205381
IBA57-DT	2.201284833	0	0	-12.13092	PCDH11X	1116.946514	2739.040783	0.407787471	-1.294111	TNFAIP8	315.8843735	136.921378	0.433454104	-1.206049
RIPPLY2	2.201284833	0	0	-12.13092	NLRP1	157.6670413	386.6881105	0.407736977	-1.294289	KAT14	595.4475472	258.0760519	0.433415257	-1.206178
LIME1	2.201284833	0	0	-12.13092	CREB3L4	83.81247987	205.5669553	0.407713777	-1.294371	GAB1	1036.805156	448.9361546	0.432999539	-1.207563
LCN8	2.201284833	0	0	-12.13092	ITGB8	128.6231127	315.5730557	0.407585852	-1.294824	ITGB2	845.2933757	365.9535012	0.432930757	-1.207792
NPY4R	2.201284833	0	0	-12.13092	CDAN1	164.3056536	403.3557015	0.407346798	-1.295671	HDAC9	529.4090022	229.0321232	0.43261849	-1.208833
GDF5-AS1	2.201284833	0	0	-12.13092	AMPD3	109.5371024	268.903801	0.407346798	-1.295671	ZSWIM1	604.2526865	261.395358	0.432592794	-1.208918
LINC02872	2.201284833	0	0	-12.13092	CEBPA	39.8316736	97.78320037	0.407346798	-1.295671	FIS1	560.2269899	242.3093477	0.432519947	-1.209161
CRTC1P1	2.201284833	0	0	-12.13092	PLA1A	9.9579184	24.44580009	0.407346798	-1.295671	ASCC2	823.2805274	355.9955828	0.432411032	-1.209525
PABPN1L	2.201284833	0	0	-12.13092	OR13C3	9.9579184	24.44580009	0.407346798	-1.295671	ATP10D	775.9529035	335.2499195	0.432049314	-1.210732
LINC02397	2.201284833	0	0	-12.13092	ENSG000002	9.9579184	24.44580009	0.407346798	-1.295671	SZT2	2314.651001	999.1111462	0.431646562	-1.212078
LINC02903	2.201284833	0	0	-12.13092	ADCYAP1R	4.9789592	12.22290005	0.407346798	-1.295671	FZD4	747.3362007	321.9726949	0.430827109	-1.214819
TTLL10-AS1	2.201284833	0	0	-12.13092	CRYBB1	4.9789592	12.22290005	0.407346798	-1.295671	PTK6	23.11349074	9.9579184	0.430827109	-1.214819
DGAT2L7P	2.201284833	0	0	-12.13092	FSCN3	4.9789592	12.22290005	0.407346798	-1.295671	CNTN5	23.11349074	9.9579184	0.430827109	-1.214819
SARNP	2.201284833	0	0	-12.13092	TCF15	4.9789592	12.22290005	0.407346798	-1.295671	TNFAIP8L2	23.11349074	9.9579184	0.430827109	-1.214819
TP53TG3D	2.201284833	0	0	-12.13092	MMP3	4.9789592	12.22290005	0.407346798	-1.295671	PIWIL3	23.11349074	9.9579184	0.430827109	-1.214819
LINC01446	2.201284833	0	0	-12.13092	RPL29P24	4.9789592	12.22290005	0.407346798	-1.295671	FAM186A	23.11349074	9.9579184	0.430827109	-1.214819
SLCO1B7	2.201284833	0	0	-12.13092	BTBD7	29.8737552	73.33740027	0.407346798	-1.295671	C2orf16	23.11349074	9.9579184	0.430827109	-1.214819
ENSG000002	2.201284833	0	0	-12.13092	ZNF316	239.8198681	588.9215477	0.407218702	-1.296124	ENSG000002	23.11349074	9.9579184	0.430827109	-1.214819
KRTAP27-1	2.201284833	0	0	-12.13092	ARHGEF28	150.1986025	368.9093468	0.407142307	-1.296395	KLHDC7A	61.63597531	26.55444907	0.430827109	-1.214819
ELOA2	2.201284833	0	0	-12.13092	CASP9	230.6917763	566.698093	0.407080559	-1.296614	TTLL6	38.52248457	16.59653067	0.430827109	-1.214819
RNU6-979P	2.201284833	0	0	-12.13092	ITM2C	1877.067618	4612.478008	0.40695427	-1.297061	ATP6V1E1P1	15.40899383	6.638612267	0.430827109	-1.214819
RNU6-1062P	2.201284833	0	0	-12.13092	AKR1A1	332.7604399	817.8231303	0.406885581	-1.297305	NR5A1	7.704496914	3.319306133	0.430827109	-1.214819
Y_RNA.67	2.201284833	0	0	-12.13092	KAT2A	684.60689	1683.426688	0.406674609	-1.298053	DQX1	7.704496914	3.319306133	0.430827109	-1.214819
RNU6-444P	2.201284833	0	0	-12.13092	CYTH4	40.66150013	100.0055458	0.406592452	-1.298345	ZNF23	7.704496914	3.319306133	0.430827109	-1.214819
SNORA24B	2.201284833	0	0	-12.13092	LNMICC	40.66150013	100.0055458	0.406592452	-1.298345	KCNV2	7.704496914	3.319306133	0.430827109	-1.214819
RNU6-1024P	2.201284833	0	0	-12.13092	ABHD15	107.0476228	263.3479374	0.406487417	-1.298717	EFCAB3	7.704496914	3.319306133	0.430827109	-1.214819
RNU6-4P	2.201284833	0	0	-12.13092	GPS1	614.0716347	1511.194915	0.406348399	-1.299211	UBE2U	7.704496914	3.319306133	0.430827109	-1.214819
SNORA7B	2.201284833	0	0	-12.13092	TMEM179B	409.9343075	1008.94484	0.406300019	-1.299383	YIPF7	7.704496914	3.319306133	0.430827109	-1.214819
Y_RNA.81	2.201284833	0	0	-12.13092	ZNF552	262.2251845	645.591357	0.406178276	-1.299815	SLC9A4	7.704496914	3.319306133	0.430827109	-1.214819
SNORD38C	2.201284833	0	0	-12.13092	ALDH1L2	128.6231127	316.6842285	0.406155726	-1.299895	OR4P4	7.704496914	3.319306133	0.430827109	-1.214819
Y_RNA.87	2.201284833	0	0	-12.13092	KCNT1	72.1949084	177.787637	0.40607384	-1.300186	AIFM3	7.704496914	3.319306133	0.430827109	-1.214819
RNU6-1222P	2.201284833	0	0	-12.13092	PNPLA6	583.368053	1436.746342	0.406034131	-1.300327	RPL7AP60	7.704496914	3.319306133	0.430827109	-1.214819
SNORA20	2.201284833	0	0	-12.13092	LLGL2	523.6205426	1290.071541	0.405884888	-1.300857	PGM5P4	7.704496914	3.319306133	0.430827109	-1.214819
MIR27B	2.201284833	0	0	-12.13092	FAM124A	41.49132667	102.2278913	0.405870904	-1.300907	ATXN1-AS1	7.704496914	3.319306133	0.430827109	-1.214819
MIR136	2.201284833	0	0	-12.13092	LARP6	165.9653067	408.9115652	0.405870904	-1.300907	ZNF101P2	7.704496914	3.319306133	0.430827109	-1.214819
SNORD96B	2.201284833	0	0	-12.13092	ALAD	156.8372148	386.6881105	0.405590993	-1.301902	MAP3K2-DT	7.704496914	3.319306133	0.430827109	-1.214819
MT-TC	2.201284833	0	0	-12.13092	MATCAP1	126.1336331	311.1283648	0.405407052	-1.302557	LINC00426	7.704496914	3.319306133	0.430827109	-1.214819
MT-TK	2.201284833	0	0	-12.13092	MYLK2	15.76670413	38.8910456	0.405407052	-1.302557	STPG4	7.704496914	3.319306133	0.430827109	-1.214819
MT-TL2	2.201284833	0	0	-12.13092	NAXD	132.7722453	327.7959558	0.405045404	-1.303844	NME2	7.704496914	3.319306133	0.430827109	-1.214819
MIR762	2.201284833	0	0	-12.13092	ZNF74	90.45109214	223.345719	0.404982431	-1.304069	ST13P15	7.704496914	3.319306133	0.430827109	-1.214819
IGLV8-61	2.201284833	0	0	-12.13092	GGT5	128.6231127	317.7954012	0.404735601	-1.304948	ARL4AP2	7.704496914	3.319306133	0.430827109	-1.214819
IGLV5-48	2.201284833	0	0	-12.13092	ADAM12	75.51421454	186.6770189	0.404518001	-1.305724	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
IGLV1-44	2.201284833	0	0	-12.13092	PCDHGA9	75.51421454	186.6770189	0.404518001	-1.305724	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
TRBV6-6	2.201284833	0	0	-12.13092	MFSD5	107.8774493	266.6814555	0.404518001	-1.305724	GCATP1	7.704496914	3.319306133	0.430827109	-1.214819
TRBV19	2.201284833	0	0	-12.13092	ENSG000002	10.78774493	26.66814555	0.404518001	-1.305724	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
TRBV20-1	2.201284833	0	0	-12.13092	UBTD1	32.3632348	80.00443666	0.404518001	-1.305724	ZFP91P1	7.704496914	3.319306133	0.430827109	-1.214819
TRAJ56	2.201284833	0	0	-12.13092	GGT7	222.3935109	550.0305021	0.404329415	-1.306397	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
TRAJ42	2.201284833	0	0	-12.13092	RIPOR2	224.053164	554.475193	0.404081493	-1.307282	HSP90AB4P	7.704496914	3.319306133	0.430827109	-1.214819
TRAJ32	2.201284833	0	0	-12.13092	PIK3R5	54.7685512	135.5630732	0.40400789	-1.307545	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
TRAJ30	2.201284833	0	0	-12.13092	ZFHX2-AS1	27.3842756	67.78153662	0.40400789	-1.307545	ENSG000002	7.704496914	3.319306133	0.430827109	-1.214819
TRAJ2	2.201284833	0	0	-12.13092	TTC12	170.9442659	423.3568107	0.403782959	-1.308348	EDNRA	433.653112	186.71097	0.430553742	-1.215735
TRAJ1	2.201284833	0	0	-12.13092	TMEM50B	16.59653067	41.11339106	0.403677007	-1.308727	DDX17	10711.452	4608.02674	0.430196274	-1.216933
IGHD	2.201284833	0	0	-12.13092	AMOTL1	2391.560069	5930.328868	0.403276129	-1.31016	ZDHHC7	438.0556817	188.3706231	0.430015249	-1.21754
IGHV3-13	2.201284833	0	0	-12.13092	BIK	22.4053164	55.55863657	0.40327333	-1.31017	MAPK8IP3	868.4068665	373.42194	0.430008046	-1.217564
RNA5SP372	2.201284833	0	0	-12.13092	LRRC17	34.02288787	84.44912759	0.402880276	-1.311577	PRKCA	1136.963616	488.7678282	0.429888715	-1.217965
ENSG000002	2.201284833	0	0	-12.13092	OSBPL5	136.921378	340.0188558	0.402687603	-1.312267	RPL23AP42	110.0642416	47.3001124	0.429750041	-1.21843
SNORA3B	2.201284833	0	0	-12.13092	MED24	646.4348695	1605.644597	0.402601467	-1.312576	RUBCNL	102.3597447	43.98080627	0.429668972	-1.218702
RPS26P6	2.201284833	0	0	-12.13092	IPP	189.2004496	470.0260654	0.402531824	-1.312825	TRAF5	554.7237778	238.1602151	0.429331182	-1.219837
C1orf220	2.201284833	0	0	-12.13092	EPHA2	143.5599903	356.6864468	0.402482325	-1.313003	UBE2D4	230.034265	98.74935747	0.429281079	-1.220006
RPL29P7	2.201284833	0	0	-12.13092	ZNRD2	75.51421454	187.7881916	0.402124403	-1.314286	LRRK2	771.5503338	331.1007868	0.429136989	-1.22049
BTF3L4P3	2.201284833	0	0	-12.13092	ENSG000002	11.61757147	28.89049102	0.402124403	-1.314286	FLYWCH1	390.7280578	167.6249597	0.429006713	-1.220928
COPS5P1	2.201284833	0	0	-12.13092	NUP35P1	5.808785734	14.44524551	0.402124403	-1.314286	ARGLU1	847.4946605	363.4640216	0.428868804	-1.221392
YBX1P4	2.201284833	0	0	-12.13092	MFSD12	244.7988273	608.9226568	0.402019574	-1.314662	GPX8	119.9700234	51.44924507	0.428850838	-1.221452
ENSG000002	2.201284833	0	0	-12.13092	SLC35E1	338.5692256	842.2689304	0.40197283	-1.31483	CAPN5	928.9421994	398.316736	0.428785275	-1.221673
ENSG000002	2.201284833	0	0	-12.13092	KIAA1217	2316.045855	5763.652958	0.401836452	-1.31532	SNX1	1606.937928	688.7560227	0.428613956	-1.222249
CLNS1AP1	2.201284833	0	0	-12.13092	DDX60	433.999277	1080.059895	0.401828898	-1.315347	GAL3ST4	104.5610295	44.8106328	0.428559598	-1.222432
NAP1L1P3	2.201284833	0	0	-12.13092	ISG15	76.34404107	190.0105371	0.40178846	-1.315492	ENSG000002	104.5610295	44.8106328	0.428559598	-1.222432
ATP6V0CP3	2.201284833	0	0	-12.13092	PTPRK	70.53525534	175.5652916	0.401760819	-1.315591	BDH2	152.9892959	65.55629614	0.428502503	-1.222624
EEF1DP4	2.201284833	0	0	-12.13092	SATB2	107.0476228	266.6814555	0.401406324	-1.316865	ENSG000002	96.85653263	41.49132667	0.428379228	-1.22304
ENSG000002	2.201284833	0	0	-12.13092	JUP	1839.725424	4584.69869	0.4012751	-1.317336	ADAMTS15	48.42826632	20.74566333	0.428379228	-1.22304
RPL21P86	2.201284833	0	0	-12.13092	SLC25A39	687.9261962	1714.539525	0.401230876	-1.317495	GAS6-AS1	48.42826632	20.74566333	0.428379228	-1.22304
HMGB1P10	2.201284833	0	0	-12.13092	KLF15	222.3935109	554.475193	0.401088297	-1.318008	XPNPEP3	682.3982981	292.0989397	0.428047579	-1.224157
ENSG000002	2.201284833	0	0	-12.13092	BCL2L12	66.38612267	165.564737	0.400967766	-1.318442	ILK	1015.89295	434.8291035	0.4280265	-1.224228
RPL29P15	2.201284833	0	0	-12.13092	MUC5B	60.57733694	151.1194915	0.400857205	-1.31884	PRSS23	992.7794595	424.8711851	0.427961297	-1.224448
CEACAM18	2.201284833	0	0	-12.13092	SLC2A8	133.6020719	333.3518194	0.400783989	-1.319103	PPP1R3F	40.7237694	17.4263572	0.427916115	-1.2246
TM6SF2	2.201284833	0	0	-12.13092	CLIC5	18.25618373	45.55808199	0.400723273	-1.319322	EVL	839.7901636	359.3148889	0.427862703	-1.22478
RBM39P1	2.201284833	0	0	-12.13092	CHST12	128.6231127	321.1289194	0.400534193	-1.320003	FLNA	32889.39668	14060.58078	0.427511058	-1.225966
IFNA7	2.201284833	0	0	-12.13092	ENSG000002	24.894796	62.22567296	0.400072748	-1.321666	ARHGAP45	172.8008594	73.85456147	0.427396957	-1.226351
VAC14-AS1	2.201284833	0	0	-12.13092	ENSG000002	12.447398	31.11283648	0.400072748	-1.321666	SLC37A1	462.2698148	197.4987149	0.427236883	-1.226892
NOTO	2.201284833	0	0	-12.13092	GAS2L1	93.77039827	234.4574463	0.399946343	-1.322122	PDXDC1	198.1156349	84.6423064	0.427236883	-1.226892
GTF2IRD2P1	2.201284833	0	0	-12.13092	ABCA1	763.4404107	1910.105925	0.399684855	-1.323065	TBKBP1	99.05781747	42.3211532	0.427236883	-1.226892
RBBP4P4	2.201284833	0	0	-12.13092	PLEKHM2	612.4119816	1532.307197	0.399666583	-1.323131	SV2B	132.07709	56.42820427	0.427236883	-1.226892
SRSF8CP	2.201284833	0	0	-12.13092	WWC3	227.3724701	568.9204385	0.399656006	-1.323169	PDLIM2	33.01927249	14.10705107	0.427236883	-1.226892
ENSG000002	2.201284833	0	0	-12.13092	SRSF6	615.7312878	1542.307751	0.399227254	-1.324718	TMEM71	33.01927249	14.10705107	0.427236883	-1.226892
CDRT15L2	2.201284833	0	0	-12.13092	GRK3	463.8730322	1162.286677	0.399103802	-1.325164	TMEM268	223.4304105	95.43005134	0.427113082	-1.22731
TPM3P4	2.201284833	0	0	-12.13092	HMG20B	522.790716	1310.07265	0.399054752	-1.325341	AGAP4	250.9464709	107.0476228	0.426575526	-1.229127
DUTP8	2.201284833	0	0	-12.13092	SHISA5	253.0970927	634.4796297	0.398904994	-1.325883	GPR183	108.9635992	46.47028587	0.42647532	-1.229466
RPL23AP3	2.201284833	0	0	-12.13092	ABCA7	463.0432056	1161.175504	0.398771076	-1.326367	PKHD1	461.1691724	196.6688884	0.426457145	-1.229527
ENSG000002	2.201284833	0	0	-12.13092	PTPN14	435.65893	1093.393968	0.398446436	-1.327542	DNAH5	3348.15423	1427.301637	0.426295069	-1.230076

MAPK6P4	2.201284833	0	0	-12.13092	SYT6	13.27722453	33.33518194	0.398294647	-1.328092	PDIA5	572.3340565	243.9690008	0.426270284	-1.23016
SRSF6P1	2.201284833	0	0	-12.13092	WDR93	13.27722453	33.33518194	0.398294647	-1.328092	LMO7	1339.481821	570.920655	0.426225012	-1.230313
ENSG000002	2.201284833	0	0	-12.13092	CNIH3	13.27722453	33.33518194	0.398294647	-1.328092	TMEM132C	50.62955115	21.57548987	0.426144206	-1.230586
EIF5P1	2.201284833	0	0	-12.13092	RAB37	13.27722453	33.33518194	0.398294647	-1.328092	MTUS2	25.31477557	10.78774493	0.426144206	-1.230586
BCRP3	2.201284833	0	0	-12.13092	SPATA48	6.638612267	16.66759097	0.398294647	-1.328092	SCUBE3	118.869381	50.61941854	0.425840684	-1.231614
KRT18P3	2.201284833	0	0	-12.13092	PLK5	6.638612267	16.66759097	0.398294647	-1.328092	TRIP11	5852.115727	2491.96908	0.425823616	-1.231672
ENSG000002	2.201284833	0	0	-12.13092	GPAA1	353.5061032	887.8270124	0.398170024	-1.328543	REEP5	773.7516187	329.4411337	0.425771172	-1.23185
TTC34	2.201284833	0	0	-12.13092	FHOD1	237.3303885	596.6997568	0.39773837	-1.330108	COL10A1	555.8244202	236.500562	0.425495091	-1.232786
MRPL42P2	2.201284833	0	0	-12.13092	ATP6V0B	252.2672661	634.4796297	0.397597108	-1.330621	TMF1	2446.728091	1040.602473	0.425303685	-1.233435
CIR1P3	2.201284833	0	0	-12.13092	TRMT1	184.2214904	463.359029	0.39757829	-1.330689	NOXRED1	42.92505424	18.25618373	0.425303685	-1.233435
ENSG000002	2.201284833	0	0	-12.13092	GAB1	448.9361546	1130.062668	0.397266601	-1.331821	MISFA	42.92505424	18.25618373	0.425303685	-1.233435
ENSG000002	2.201284833	0	0	-12.13092	SORBS1	984.1742686	2479.026364	0.397000324	-1.332788	MBNL2	825.4818122	351.0166236	0.425226357	-1.233697
SYCE3	2.201284833	0	0	-12.13092	ADAT3	48.95976547	123.3401732	0.396949057	-1.332974	HAVCR2	103.4603871	43.98080627	0.425098025	-1.234133
OR4K12P	2.201284833	0	0	-12.13092	PCSK9	14.10705107	35.55752741	0.396738809	-1.333739	TUBE1	388.526773	165.1354801	0.425029861	-1.234364
BRD7P4	2.201284833	0	0	-12.13092	SPATA32	14.10705107	35.55752741	0.396738809	-1.333739	CYB5R3	761.6445521	323.632348	0.424912575	-1.234762
RPL18AP8	2.201284833	0	0	-12.13092	CDC14B	178.4127047	450.0249562	0.396450691	-1.334787	EYA2	1005.987168	427.3606647	0.424817212	-1.235086
AMZ2P2	2.201284833	0	0	-12.13092	GRAMD4	142.7301637	360.019965	0.396450691	-1.334787	MAGED1	4343.134975	1843.874557	0.424549218	-1.235996
NPM1P38	2.201284833	0	0	-12.13092	SLC2A9	35.68254093	90.00499125	0.396450691	-1.334787	SAT1	1022.496805	433.999277	0.424450497	-1.236332
HIGD1AP16	2.201284833	0	0	-12.13092	CA11	87.131786	220.0122008	0.39603161	-1.336313	FBLIM1	201.4175622	85.47213294	0.424352931	-1.236663
ARF1P1	2.201284833	0	0	-12.13092	SLC27A5	36.51236747	92.22733671	0.395895282	-1.336809	PCDH10	966.3640415	409.9343075	0.424202774	-1.237174
RPL35P3	2.201284833	0	0	-12.13092	ZNF596	36.51236747	92.22733671	0.395895282	-1.336809	RNF166	158.4925079	67.2159492	0.424095436	-1.237539
MTCYBP4	2.201284833	0	0	-12.13092	PPP1R37	301.2270316	761.153321	0.395750795	-1.337336	KRT8P3	35.22055732	14.9368776	0.424095436	-1.237539
TUBB3P1	2.201284833	0	0	-12.13092	ATP2A1	51.44924507	130.0072096	0.395741476	-1.33737	IGLV1-47	17.61027866	7.4684388	0.424095436	-1.237539
PGAM1P10	2.201284833	0	0	-12.13092	GPLD1	59.7475104	151.1194915	0.39536601	-1.338739	LINC03073	17.61027866	7.4684388	0.424095436	-1.237539
ENSG000002	2.201284833	0	0	-12.13092	POPDC2	7.4684388	18.88993643	0.39536601	-1.338739	ADPRM	497.4903722	210.7759395	0.423678429	-1.238958
ENSG000002	2.201284833	0	0	-12.13092	NXPH2	7.4684388	18.88993643	0.39536601	-1.338739	CD151	258.6509678	109.5371024	0.423493882	-1.239587
ENSG000002	2.201284833	0	0	-12.13092	PPP1R3A	7.4684388	18.88993643	0.39536601	-1.338739	ENSG000002	125.4732355	53.10889814	0.423268739	-1.240354
KRTAP12-2	2.201284833	0	0	-12.13092	OR2T8	7.4684388	18.88993643	0.39536601	-1.338739	LTBR	797.9657518	337.7393991	0.423250495	-1.240416
OR3A2	2.201284833	0	0	-12.13092	RNPS1P1	7.4684388	18.88993643	0.39536601	-1.338739	ZDHHC8	260.8522527	110.3669289	0.423101307	-1.240925
OR52B4	2.201284833	0	0	-12.13092	MED15	237.3303885	601.1444477	0.394797606	-1.340815	AAK1	2079.113524	879.6161254	0.423072677	-1.241023
LINC02860	2.201284833	0	0	-12.13092	TPCN2	61.40716347	155.5641824	0.394738445	-1.341031	CC2D2A	471.0749542	199.158368	0.422774266	-1.242041
LINC01118	2.201284833	0	0	-12.13092	OGFOD3	331.1007868	838.9354122	0.394667792	-1.341289	HVCN1	72.64239948	30.70358173	0.422667505	-1.242405
RNU4-37P	2.201284833	0	0	-12.13092	TMEM250	77.1738676	195.5664007	0.394617211	-1.341474	ADAMTS10	217.9271984	92.1107452	0.422667505	-1.242405
RNU6-757P	2.201284833	0	0	-12.13092	ZNF169	100.4090105	254.4585555	0.394598682	-1.341542	GDPGP1	55.03212081	23.23514293	0.422210567	-1.243965
RNA5SP345	2.201284833	0	0	-12.13092	PIM3	124.47398	315.5730557	0.394437921	-1.34213	TREM2	27.51606041	11.61757147	0.422210567	-1.243965
RNU2-62P	2.201284833	0	0	-12.13092	RAB3D	273.0129295	692.2606117	0.394378829	-1.342346	C1QTNF2	27.51606041	11.61757147	0.422210567	-1.243965
RNU6-1199P	2.201284833	0	0	-12.13092	MAMDC4	159.3266944	404.4668742	0.393917783	-1.344034	PRAG1	27.51606041	11.61757147	0.422210567	-1.243965
SNORD71	2.201284833	0	0	-12.13092	CASZ1	1568.372148	3983.554242	0.393711759	-1.344788	ZNF485	82.54818122	34.8527144	0.422210567	-1.243965
ENSG000002	2.201284833	0	0	-12.13092	GYPC	64.7264696	164.4535643	0.393585082	-1.345253	DTX3	359.9100701	151.8582556	0.421933889	-1.244911
ENSG000002	2.201284833	0	0	-12.13092	CAMTA2	628.1786858	1596.755215	0.393409509	-1.345896	EVA1B	37.42184215	15.76670413	0.42132357	-1.246999
TH2LCRR	2.201284833	0	0	-12.13092	RGSL1	8.298265334	21.1122819	0.393053928	-1.347201	TNFAIP2	516.2012932	217.4145517	0.421181726	-1.247485
CCR5AS	2.201284833	0	0	-12.13092	GPAT2	8.298265334	21.1122819	0.393053928	-1.347201	PCDHGA10	122.1713082	51.44924507	0.421123796	-1.247684
RPL17P9	2.201284833	0	0	-12.13092	CLCN1	8.298265334	21.1122819	0.393053928	-1.347201	SLMAP	1500.175613	631.4979919	0.420949378	-1.248281
NUP133-DT	2.201284833	0	0	-12.13092	MUC2	8.298265334	21.1122819	0.393053928	-1.347201	SLC18B1	104.5610295	43.98080627	0.420623309	-1.249399
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	8.298265334	21.1122819	0.393053928	-1.347201	POLR2J4	57.23340565	24.06496947	0.420470688	-1.249923
BCL10-AS1	2.201284833	0	0	-12.13092	CLTB	217.4145517	553.3640203	0.392896075	-1.34778	PARP2	124.372593	52.2790716	0.420342379	-1.250363
LINC01208	2.201284833	0	0	-12.13092	GM2A	235.6707355	600.033275	0.392762777	-1.34827	RPL36AP37	211.3233439	88.79143907	0.420168626	-1.25096
ENSG000002	2.201284833	0	0	-12.13092	PPDPF	1039.772646	2647.924619	0.392674564	-1.348594	ZNF888	829.8843819	348.527144	0.419970723	-1.251639
ENSG000002	2.201284833	0	0	-12.13092	SPSB3	187.5407965	477.8042745	0.392505481	-1.349215	KIAA0825	367.614567	154.3477352	0.419862946	-1.25201
LAPTM4A-D	2.201284833	0	0	-12.13092	SH2B1	453.0852872	1154.508468	0.392448648	-1.349424	RPL14P1	126.5738779	53.10889814	0.419588141	-1.252954
ENSG000002	2.201284833	0	0	-12.13092	SBF2	1105.328942	2817.934047	0.392247982	-1.350162	MAP2K5	488.6852328	204.9671537	0.419425716	-1.253513
SEC13P1	2.201284833	0	0	-12.13092	KLC3	17.4263572	44.44690926	0.392071293	-1.350812	SBDS	1628.950776	682.947237	0.419255908	-1.254097
RPL18AP9	2.201284833	0	0	-12.13092	SHMT1	17.4263572	44.44690926	0.392071293	-1.350812	HGD	39.62312699	16.59653067	0.41885969	-1.255461
ATP5F1CP1	2.201284833	0	0	-12.13092	ATG9B	17.4263572	44.44690926	0.392071293	-1.350812	RPL10AP6	19.81156349	8.298265334	0.41885969	-1.255461
TCEAL3-AS1	2.201284833	0	0	-12.13092	NOTCH2	3360.79746	8572.697623	0.392034994	-1.350946	LYRM9	19.81156349	8.298265334	0.41885969	-1.255461
ENSG000002	2.201284833	0	0	-12.13092	EMC10	1063.837616	2714.594983	0.391895521	-1.351459	PSMD6-AS2	19.81156349	8.298265334	0.41885969	-1.255461
AMMECR1-I	2.201284833	0	0	-12.13092	AQP7	9.128091867	23.33462736	0.391182243	-1.354087	ASNS	9.905781747	4.149132667	0.41885969	-1.255461
LINC02636	2.201284833	0	0	-12.13092	MROH2B	9.128091867	23.33462736	0.391182243	-1.354087	TMPRSS11E	9.905781747	4.149132667	0.41885969	-1.255461
ENSG000002	2.201284833	0	0	-12.13092	CCDC89	9.128091867	23.33462736	0.391182243	-1.354087	S1PR4	9.905781747	4.149132667	0.41885969	-1.255461
RPL7P7	2.201284833	0	0	-12.13092	SNORC	9.128091867	23.33462736	0.391182243	-1.354087	KLRC1	9.905781747	4.149132667	0.41885969	-1.255461
ENSG000002	2.201284833	0	0	-12.13092	DCDC2B	9.128091867	23.33462736	0.391182243	-1.354087	FAM186B	9.905781747	4.149132667	0.41885969	-1.255461
STK24-AS1	2.201284833	0	0	-12.13092	RARA-AS1	9.128091867	23.33462736	0.391182243	-1.354087	FAM131B	9.905781747	4.149132667	0.41885969	-1.255461
RPL4P7	2.201284833	0	0	-12.13092	ENSG000002	9.128091867	23.33462736	0.391182243	-1.354087	C1orf74	9.905781747	4.149132667	0.41885969	-1.255461
GUSBP6	2.201284833	0	0	-12.13092	ENSG000002	9.128091867	23.33462736	0.391182243	-1.354087	LENG8	9.905781747	4.149132667	0.41885969	-1.255461
CDHR18P	2.201284833	0	0	-12.13092	ENSG000002	9.128091867	23.33462736	0.391182243	-1.354087	ABCG4	9.905781747	4.149132667	0.41885969	-1.255461
PPIAP10	2.201284833	0	0	-12.13092	ABCB8	165.1354801	422.2456379	0.391088659	-1.354432	ZSCAN2	9.905781747	4.149132667	0.41885969	-1.255461
MEP1AP4	2.201284833	0	0	-12.13092	LAMA5	2703.574846	6914.827908	0.390982231	-1.354825	CYSRT1	9.905781747	4.149132667	0.41885969	-1.255461
SAGE4P	2.201284833	0	0	-12.13092	PEX16	83.81247987	214.4563372	0.390813724	-1.355447	PRAMEF14	9.905781747	4.149132667	0.41885969	-1.255461
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	28.21410213	72.22622754	0.390635135	-1.356106	CPT1B	9.905781747	4.149132667	0.41885969	-1.255461
ENSG000002	2.201284833	0	0	-12.13092	ANGEL1	311.18495	796.7108484	0.390587063	-1.356284	ENSG000002	9.905781747	4.149132667	0.41885969	-1.255461
RPL17P10	2.201284833	0	0	-12.13092	COL16A1	115.3458881	295.5719466	0.3902464	-1.357543	ENSG000002	9.905781747	4.149132667	0.41885969	-1.255461
LEMD1-DT	2.201284833	0	0	-12.13092	MAMLD1	48.12993894	123.3401732	0.390221107	-1.357636	ENSG000002	9.905781747	4.149132667	0.41885969	-1.255461
CENPIP1	2.201284833	0	0	-12.13092	RILPL1	174.263572	446.691438	0.39012069	-1.358008	PCNPP1	9.905781747	4.149132667	0.41885969	-1.255461
IQCF4P	2.201284833	0	0	-12.13092	WDR91	109.5371024	281.1267011	0.389636068	-1.359801	ENSG000002	9.905781747	4.149132667	0.41885969	-1.255461
EML4-AS1	2.201284833	0	0	-12.13092	PTK6	9.9579184	25.55697282	0.389636068	-1.359801	ENSG000002	9.905781747	4.149132667	0.41885969	-1.255461
PARP4P2	2.201284833	0	0	-12.13092	SSPN	9.9579184	25.55697282	0.389636068	-1.359801	TRAPPC14	99.05781747	41.49132667	0.41885969	-1.255461
TMEM233	2.201284833	0	0	-12.13092	TEKT4	9.9579184	25.55697282	0.389636068	-1.359801	ZMYM5	504.0942267	210.7759395	0.418128057	-1.257983
ENSG000002	2.201284833	0	0	-12.13092	RFX8	9.9579184	25.55697282	0.389636068	-1.359801	GSTK1	365.4132822	152.6880821	0.417850389	-1.258942
NHSL1-AS1	2.201284833	0	0	-12.13092	ENSG000002	9.9579184	25.55697282	0.389636068	-1.359801	TAOK2	4127.409061	1723.54971	0.417586356	-1.259854
MIR137HG	2.201284833	0	0	-12.13092	PXDC1	63.06681654	162.2312188	0.388746488	-1.363098	ABCA9	337.8972218	141.0705107	0.417495326	-1.260168
LINC00350	2.201284833	0	0	-12.13092	FOXO3B	75.51421454	194.455228	0.388337281	-1.364618	MATK	51.73019357	21.57548987	0.417077308	-1.261613
ENSG000002	2.201284833	0	0	-12.13092	FBXL5	863.0195947	2222.345463	0.388337281	-1.364618	NOL8	135.3790172	56.42820427	0.416816472	-1.262516
ENSG000002	2.201284833	0	0	-12.13092	ARHGEF33	21.57548987	55.55863657	0.388337281	-1.364618	PORCN	83.64882364	34.8527144	0.416655165	-1.263074
AKR1C5P	2.201284833	0	0	-12.13092	CA12	10.78774493	27.77931829	0.388337281	-1.364618	PHYHD1	41.82441182	17.4263572	0.416655165	-1.263074
LINC01671	2.201284833	0	0	-12.13092	ADGRE1	10.78774493	27.77931829	0.388337281	-1.364618	MYT1L	41.82441182	17.4263572	0.416655165	-1.263074
LINC01821	2.201284833	0	0	-12.13092	SLFN14	10.78774493	27.77931829	0.388337281	-1.364618	NOB1	376.4197064	156.8372148	0.416655165	-1.263074
CCT4P2	2.201284833	0	0	-12.13092	HDHD3	98.74935747	254.4585555	0.388076389	-1.365587	MBD6	1047.81158	436.4887566	0.4165718	-1.263363
ENSG000002	2.201284833	0	0	-12.13092	SMPD2	55.59837774	143.3412824	0.387874148	-1.366339	MYLIP	671.3918739	279.6515417	0.416525062	-1.263525
ENSG000002	2.201284833	0	0	-12.13092	RAB29	78.00369414	201.1222644	0.387842163	-1.366458	TIPARP	1008.188453	419.8922259	0.416481883	-1.263674
TSPY5P	2.201284833	0	0	-12.13092	C2CD4C	34.02288787	87.78264578	0.387581025	-1.36743	KCTD1	833.1863091	346.8674909	0.416314439	-1.264254
ENSG000002	2.201284833	0	0	-12.13092	NADK	228.2022967	588.9215477	0.387491844	-1.367762	ZNF691	253.1477557	105.3879697	0.416310109	-1.26427
SFTPA3P	2.201284833	0	0	-12.13092	PRKAG2	310.3551235	801.1555394	0.387384357	-1.368162	CCN1	867.306224	360.974542	0.41620195	-1.264644
ENSG000002	2.201284833	0	0	-12.13092	GAMT	173.4337455	447.8026108	0.387299541	-1.368478	HOXA4	31.91863007	13.27722453	0.415971002	-1.265445
TEX14BP	2.201284833	0	0	-12.13092	VWA5B1	11.61757147	30.00166375	0.387230907	-1.368734	SOWAHB	149.6873686	62.23699	0.415779839	-1.266108
ENSG000002	2.201284833	0	0	-12.13092	PSMB10	11.61757147	30.00166375	0.387230907	-1.368734	HSCB	85.85010847	35.68254093	0.415637692	-1.266602
SLC18A2-AS	2.201284833	0	0	-12.13092	TOB2	220.7338579	570.0316112	0.387230907	-1.368734	TCF4	1292.154197	536.8977671	0.415505958	-1.267059
HMGB3P20	2.201284833	0	0	-12.13092	SPIN2B	35.68254093	92.22733671	0.386897662	-1.369976	GPR132	53.9314784	22.4053164	0.415440427	-1.267286
ENSG000002	2.201284833	0	0	-12.13092	CFAP70	275.5024091	712.2617209	0.386799404	-1.370343	NPIPB5	551.4218506	229.0321232	0.415348291	-1.267606
NPIPB14P	2.201284833	0	0	-12.13092	EIF2D	278.8217152	721.1511027	0.386634249	-1.370959	CYP4X1	75.94432672	31.53340827	0.415217431	-1.268061
LINC02608	2.201284833	0	0	-12.13092	TOP3B	207.4566333	536.6964293	0.386543718	-1.371297	PPARGC1B	227.8329802	94.6002248	0.415217431	-1.268061
SMARCE1P2	2.201284833	0	0	-12.13092	DOHH	73.85456147	191.1217098	0.386426856	-1.371733	SGMS2	369.8158519	153.5179087	0.415119871	-1.2684

ENSG000002	2.201284833	0	0	-12.13092	GPR65	12.447398	32.22400921	0.386277136	-1.372292	PRR5	97.95717505	40.66150013	0.415094659	-1.268488
KIRREL1-IT1	2.201284833	0	0	-12.13092	ENSG000003	12.447398	32.22400921	0.386277136	-1.372292	TGFBI	1135.862974	471.341471	0.41496332	-1.268944
HDAC9-AS1	2.201284833	0	0	-12.13092	ENSG000003	12.447398	32.22400921	0.386277136	-1.372292	SIX5	252.0471133	104.5581432	0.41483571	-1.269388
RPS7P10	2.201284833	0	0	-12.13092	DNAAF5	174.263572	451.136129	0.386277136	-1.372292	STOML1	44.02569665	18.25618373	0.414671093	-1.269961
LINC02848	2.201284833	0	0	-12.13092	KDM8	38.17202053	98.8943731	0.38598779	-1.373373	SNX20	22.01284833	9.128091867	0.414671093	-1.269961
ENSG000002	2.201284833	0	0	-12.13092	ZNF578	63.89664307	165.564737	0.385931474	-1.373583	DM1-AS	22.01284833	9.128091867	0.414671093	-1.269961
SHANK2-AS	2.201284833	0	0	-12.13092	SLC9A3-AS	89.6212656	232.2351009	0.385907493	-1.373673	CSRNP1	110.0642416	45.64045934	0.414671093	-1.269961
ENSG000002	2.201284833	0	0	-12.13092	MCCC2	219.0742048	567.8092658	0.385823582	-1.373987	FAM13B	1562.912231	648.0945226	0.414671093	-1.269961
ENSG000002	2.201284833	0	0	-12.13092	CTDSP1	299.5673785	776.7097393	0.385687682	-1.374495	LUC7L2	510.6980812	211.605766	0.414346115	-1.271092
ENSG000002	2.201284833	0	0	-12.13092	DMPK	290.4392867	753.3751119	0.385517496	-1.375132	RNF111	1898.608168	786.6755536	0.414343289	-1.271102
ATF6-DT	2.201284833	0	0	-12.13092	JAKMIP3	13.27722453	34.44635467	0.385446433	-1.375398	HERPUD1	1304.261263	540.2170732	0.414193911	-1.271622
PRKCZ-DT	2.201284833	0	0	-12.13092	CASKIN1	80.49317374	208.9004735	0.385318292	-1.375877	MAN2A2	751.7387703	311.18495	0.413953573	-1.272459
ENSG000002	2.201284833	0	0	-12.13092	ATAD3B	229.8619497	596.6997568	0.385222127	-1.376238	WDR49	56.13276323	23.23514293	0.413931928	-1.272535
LINC01247	2.201284833	0	0	-12.13092	MSTO1	40.66150013	105.5614095	0.38519285	-1.376347	HIBADH	585.5417655	242.3093477	0.413820776	-1.272922
LINC00629	2.201284833	0	0	-12.13092	AKAP8L	612.4119816	1590.088179	0.385143409	-1.376532	GADD45B	90.25267814	37.342194	0.413751645	-1.273163
ENSG000002	2.201284833	0	0	-12.13092	DGKD	425.7010116	1105.616868	0.385034838	-1.376939	SERPINE2	282.865101	117.0055412	0.413644316	-1.273537
BEND7-DT	2.201284833	0	0	-12.13092	STAT2	604.9435428	1571.198242	0.385020506	-1.376993	TRIOBP	443.5588938	183.3916639	0.413455048	-1.274198
ZNF692-DT	2.201284833	0	0	-12.13092	ARFGAP1	385.0395115	1000.055458	0.385018159	-1.377002	PLBD1	341.1991491	141.0705107	0.413455048	-1.274198
ENSG000002	2.201284833	0	0	-12.13092	LMBR1L	110.3669289	286.6825647	0.384979565	-1.377146	HOXB-AS1	34.11991491	14.10705107	0.413455048	-1.274198
NALF1-IT1	2.201284833	0	0	-12.13092	VSIG4	250.6076131	651.1472206	0.384870894	-1.377554	SGCE	377.5203488	156.0073883	0.413242329	-1.27494
ENSG000002	2.201284833	0	0	-12.13092	SLC24A1	84.6423064	220.0122008	0.384716421	-1.378133	IRAG2	126.5738779	52.2790716	0.413032076	-1.275674
ENSG000002	2.201284833	0	0	-12.13092	PKD2	564.2820427	1466.748005	0.384716421	-1.378133	TMBIM4	92.45396297	38.17202053	0.41287598	-1.27622
GOLGA7B-D	2.201284833	0	0	-12.13092	HOXD1	14.10705107	36.66870014	0.384716421	-1.378133	ERICH6	46.22698148	19.08601027	0.41287598	-1.27622
DLG1-AS1	2.201284833	0	0	-12.13092	DCDC2C	14.10705107	36.66870014	0.384716421	-1.378133	DRICH1	46.22698148	19.08601027	0.41287598	-1.27622
AMYP1	2.201284833	0	0	-12.13092	MTA1	635.6471246	1652.313852	0.384701202	-1.37819	ENSG000002	46.22698148	19.08601027	0.41287598	-1.27622
LINC00310	2.201284833	0	0	-12.13092	MAN2A2	311.18495	808.9337485	0.384685335	-1.378249	WASHC2C	775.9529035	320.3130419	0.412799592	-1.276487
CHUK-DT	2.201284833	0	0	-12.13092	SMPD1	344.3780113	895.6052215	0.384519879	-1.37887	RNASEL	372.0171367	153.5179087	0.41266354	-1.276962
ILRUNP1	2.201284833	0	0	-12.13092	AUP1	246.4584804	641.146666	0.384402655	-1.37931	RRP8	221.2291257	91.28091867	0.412608052	-1.277156
SERPINA7P1	2.201284833	0	0	-12.13092	PLCD4	58.08785734	151.1194915	0.384383621	-1.379381	NOTCH2	8145.854523	3360.79746	0.412577643	-1.277262
ENSG000002	2.201284833	0	0	-12.13092	GRN	2922.649051	7608.199692	0.384144629	-1.380279	MXRA7	165.0963624	68.04577574	0.412157934	-1.278731
INKA2-AS1	2.201284833	0	0	-12.13092	STIM1	401.6360421	1045.61354	0.384115189	-1.380389	ACP6	259.7516102	107.0476228	0.412115339	-1.27888
ARHGAP42P	2.201284833	0	0	-12.13092	TCHH	14.9368776	38.8910456	0.384069838	-1.380559	PRRG1	189.3104956	78.00369414	0.412041043	-1.27914
ENSG000002	2.201284833	0	0	-12.13092	IMPDH1	89.6212656	233.3462736	0.384069838	-1.380559	TDRD6	94.6552478	39.00184707	0.412041043	-1.27914
ATP6V0E1P4	2.201284833	0	0	-12.13092	HS3ST1	186.71097	486.6936564	0.383631403	-1.382207	TRIM4	390.7280578	160.9863475	0.412016348	-1.279227
PSMA2P3	2.201284833	0	0	-12.13092	TBXAS1	112.026582	292.2384284	0.383339668	-1.383305	ELK4	5758.561122	2368.324926	0.411270259	-1.281841
MACROD2-I	2.201284833	0	0	-12.13092	MIF4GD	48.12993894	125.5625187	0.383314539	-1.383399	MILR1	72.64239948	29.8737552	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	FBXL19	244.7988273	638.9243206	0.383142134	-1.384048	ZMYND12	36.32119974	14.9368776	0.411244059	-1.281933
LINC01515	2.201284833	0	0	-12.13092	SPN	16.59653067	43.33573653	0.382975622	-1.384676	PRPH2	36.32119974	14.9368776	0.411244059	-1.281933
RPL7P47	2.201284833	0	0	-12.13092	PRKAA2	167.6249597	437.8020562	0.38287842	-1.385042	HTRA1	811.1734608	333.5902664	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	GGA1	218.2443783	570.0316112	0.382863641	-1.385097	HPS5	24.21413316	9.9579184	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	SLC25A27	185.0513169	483.3601382	0.382843562	-1.385173	BHLHA15	24.21413316	9.9579184	0.411244059	-1.281933
MTATP6P11	2.201284833	0	0	-12.13092	PEX11B	85.47213294	223.345719	0.38268982	-1.385753	DDX50P1	24.21413316	9.9579184	0.411244059	-1.281933
ST13P19	2.201284833	0	0	-12.13092	EFCAB12	34.8527144	91.11616398	0.382508579	-1.386436	TPH2	12.10706658	4.9789592	0.411244059	-1.281933
FALEC	2.201284833	0	0	-12.13092	LLGL1	175.0933985	457.8031654	0.382464369	-1.386603	CDH8	12.10706658	4.9789592	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	CIC	1284.571474	3360.18634	0.382291737	-1.387254	HKDC1	12.10706658	4.9789592	0.411244059	-1.281933
COL6A4P2	2.201284833	0	0	-12.13092	MYC	218.2443783	571.142784	0.38211877	-1.387907	KRT75	12.10706658	4.9789592	0.411244059	-1.281933
LINC01320	2.201284833	0	0	-12.13092	FMO1	18.25618373	47.78042745	0.382084981	-1.388035	TMEM86B	12.10706658	4.9789592	0.411244059	-1.281933
IDH3B-DT	2.201284833	0	0	-12.13092	AGTRAP	92.1107452	241.1244827	0.382004947	-1.388337	KIAA2012	12.10706658	4.9789592	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	FBXW5	653.0734818	1710.094834	0.381893138	-1.388759	CFAP73	12.10706658	4.9789592	0.411244059	-1.281933
MTATP6P19	2.201284833	0	0	-12.13092	PLPP3	112.8564085	295.5719466	0.381823816	-1.389021	HMGB1P41	12.10706658	4.9789592	0.411244059	-1.281933
PGK1P1	2.201284833	0	0	-12.13092	PAFAH2	94.6002248	247.7915191	0.381773457	-1.389211	HOXA-AS2	12.10706658	4.9789592	0.411244059	-1.281933
ENSG000002	2.201284833	0	0	-12.13092	AOC3	19.08601027	50.00277291	0.381699037	-1.389493	ENSG000002	12.10706658	4.9789592	0.411244059	-1.281933
GRK5-IT1	2.201284833	0	0	-12.13092	CHRM3	19.08601027	50.00277291	0.381699037	-1.389493	FOXP1-DT	12.10706658	4.9789592	0.411244059	-1.281933
RPL21P50	2.201284833	0	0	-12.13092	OAZ3	19.9158368	52.22511838	0.381345939	-1.390828	ENSG000002	12.10706658	4.9789592	0.411244059	-1.281933
VN1R4	2.201284833	0	0	-12.13092	PIP5K1C	429.0203178	1125.617977	0.381142027	-1.391599	ALG12	391.8287002	160.9863475	0.410858999	-1.283285
RPL7P52	2.201284833	0	0	-12.13092	SERINC2	307.0358173	805.6002303	0.381126775	-1.391657	IQCE	490.8865177	201.6478476	0.410783023	-1.283552
HOTAIR	2.201284833	0	0	-12.13092	CCS	185.8811435	487.8048291	0.381056382	-1.391924	FAM120C	307.0792341	126.1336331	0.410752728	-1.283658
ENSG000002	2.201284833	0	0	-12.13092	GLUD1	921.9372786	2420.134209	0.380944691	-1.392347	RBM6	3326.141382	1365.064647	0.410404878	-1.28488
ENSG000002	2.201284833	0	0	-12.13092	CBX7	63.89664307	167.7870824	0.380819799	-1.39282	C11orf24	823.2805274	337.7393991	0.410236108	-1.285474
LINC01344	2.201284833	0	0	-12.13092	KLHL26	66.38612267	174.4541188	0.380536287	-1.393894	FLI1	441.3576089	180.9021843	0.409876664	-1.286738
PPIAP55	2.201284833	0	0	-12.13092	C19orf18	22.4053164	58.89215477	0.380446538	-1.394234	ACTR3B	216.826556	88.79143907	0.409504448	-1.288049
PHF10P1	2.201284833	0	0	-12.13092	GPR132	22.4053164	58.89215477	0.380446538	-1.394234	DENND4A	2538.081412	1038.94282	0.409341802	-1.288622
VDAC1P8	2.201284833	0	0	-12.13092	TSC1	1519.412383	3996.888315	0.380148821	-1.395364	HAPLN3	38.52248457	15.76670413	0.409285754	-1.28882
MRPL32P2	2.201284833	0	0	-12.13092	GSTA1	71.36508187	187.7881916	0.380029656	-1.395816	PKD2	1379.104948	564.2820427	0.409165411	-1.289244
HECW2-AS1	2.201284833	0	0	-12.13092	LRRC14	264.7146641	696.7053026	0.379952131	-1.39611	ZNF276	283.9657434	116.1757147	0.409118767	-1.289408
RPS26P18	2.201284833	0	0	-12.13092	G6PC3	243.1391743	640.0354933	0.379883892	-1.39637	RGS22	221.2291257	90.45109214	0.40885707	-1.290332
ENSG000002	2.201284833	0	0	-12.13092	TSPAN33	24.894796	65.55919115	0.379730066	-1.396954	TUBGCP6	1418.728075	580.0487468	0.40885125	-1.290352
ENSG000002	2.201284833	0	0	-12.13092	EVI5L	102.8984901	271.1261465	0.379522563	-1.397742	KRT19	2346.569632	959.2794726	0.40880077	-1.29053
LINC03008	2.201284833	0	0	-12.13092	VPS8	1622.310873	4275.792671	0.379417572	-1.398142	PCBP4	209.1220591	85.47213294	0.408718876	-1.290819
ENSG000002	2.201284833	0	0	-12.13092	MAP3K8	109.5371024	288.9049102	0.379145866	-1.399175	NXPE2	26.41541799	10.78774493	0.408388197	-1.291987
ZBTB46-AS2	2.201284833	0	0	-12.13092	ZNF69	58.08785734	153.3418369	0.378812844	-1.400443	RUSF1	770.4496914	314.5042561	0.408208686	-1.292621
ENSG000002	2.201284833	0	0	-12.13092	ARMC5	119.4950208	315.5730557	0.378660404	-1.401024	SLC23A2	1169.982889	477.1502567	0.407826697	-1.293972
LRRC3-DT	2.201284833	0	0	-12.13092	SIPA1	95.43005134	252.23621	0.37833605	-1.40226	TINAGL1	162.8950776	66.38612267	0.407539157	-1.294989
ENSG000002	2.201284833	0	0	-12.13092	HEMK1	97.0897044	256.680901	0.378250598	-1.402586	ANKHD1-EII	40.7237694	16.59653067	0.407539157	-1.294989
PIP5K1P2	2.201284833	0	0	-12.13092	PARVG	33.19306133	87.78264578	0.37812783	-1.403054	SUCLG2	652.6809529	265.5444907	0.406851908	-1.297424
ENSG000002	2.201284833	0	0	-12.13092	INSIG1	160.1565209	424.4679834	0.377311192	-1.406173	RAP1GAP	712.1156433	289.6094601	0.406688805	-1.298003
MYCBP2-AS	2.201284833	0	0	-12.13092	PCDHGA6	81.32300027	215.5675099	0.377250729	-1.406404	DEPTOR	587.7430503	238.9900416	0.406623339	-1.298235
ENSG000002	2.201284833	0	0	-12.13092	AKAP3	41.49132667	110.0061004	0.377172961	-1.406702	CCDC186	3952.406917	1606.544169	0.40647236	-1.298771
ENSG000002	2.201284833	0	0	-12.13092	KIAA0319L	1013.218197	2686.815665	0.377107448	-1.406952	MAPKAPK3	341.1991491	138.5810311	0.406158783	-1.299884
MYOSLID	2.201284833	0	0	-12.13092	AMDHD2	91.28091867	242.2356555	0.376826931	-1.408026	TGFBR3	784.7580428	318.6533888	0.40605304	-1.30026
LINC02681	2.201284833	0	0	-12.13092	RMDN3	92.1107452	244.4580009	0.376795788	-1.408145	CASS4	57.23340565	23.23514293	0.405971699	-1.300549
DPY19L4P1	2.201284833	0	0	-12.13092	RHBDD3	48.12993894	127.7848641	0.376648199	-1.40871	RAB25	429.2505424	174.263572	0.405971699	-1.300549
MAST4-AS1	2.201284833	0	0	-12.13092	SH3PXD2A	722.7789106	1918.995307	0.376644439	-1.408725	PICK1	357.7087853	145.2196433	0.405971699	-1.300549
RPL17P28	2.201284833	0	0	-12.13092	MPST	101.2388371	268.903801	0.376487192	-1.409327	GALK1	71.54175706	29.04392867	0.405971699	-1.300549
ENSG000002	2.201284833	0	0	-12.13092	KIAA0825	154.3477352	410.0227379	0.376437014	-1.40952	ADM	71.54175706	29.04392867	0.405971699	-1.300549
SEPTIN7P7	2.201284833	0	0	-12.13092	ITPR1	368.4429808	978.9431764	0.376368097	-1.409784	HSPA7	114.4668113	46.47028587	0.405971699	-1.300549
CT70	2.201284833	0	0	-12.13092	SKI	348.527144	927.8292308	0.375637167	-1.412588	TNFSF4	14.30835141	5.808785734	0.405971699	-1.300549
FNTAP2	2.201284833	0	0	-12.13092	EPHX2	82.98265334	221.1233736	0.37527762	-1.41397	FOXL1	14.30835141	5.808785734	0.405971699	-1.300549
CDC42-IT1	2.201284833	0	0	-12.13092	CIAO3	199.9881945	533.3629111	0.37495707	-1.415203	ENSG000001	14.30835141	5.808785734	0.405971699	-1.300549
ENSG000002	2.201284833	0	0	-12.13092	EXOC7	1440.578862	3842.435305	0.374912978	-1.415372	TMEM230P2	14.30835141	5.808785734	0.405971699	-1.300549
LINC01721	2.201284833	0	0	-12.13092	CREB3L2	328.6113072	876.7152851	0.374821008	-1.415726	WWP2	1065.421859	432.3396239	0.40579196	-1.301188
ENSG000002	2.201284833	0	0	-12.13092	TNFRSF1A	253.9269192	677.8153662	0.374625498	-1.416479	MAGI3	2319.053571	941.0232888	0.405779021	-1.301234
ATXN8OS	2.201284833	0	0	-12.13092	ELP2	585.8575326	1564.531206	0.374462031	-1.417109	GPR34	624.06425	253.0970927	0.405562557	-1.302004
DSCR9	2.201284833	0	0	-12.13092	GSTK1	152.6880821	407.8003924	0.374418674	-1.417276	GLIPR2	304.8779493	123.6441535	0.405552956	-1.302038
GSTA11P	2.201284833	0	0	-12.13092	SGMS1	250.6076131	670.0371571	0.374020471	-1.418811	MPHOSPH8	916.8351328	371.7622869	0.405484338	-1.302282
ENSG000002	2.201284833	0	0	-12.13092	AUH	266.3743172	712.2617209	0.373983761	-1.418952	SEC31A	5892.839497	2389.07059	0.405419253	-1.302513
ENSG000002	2.201284833	0	0	-12.13092	TMEM232	29.04392867	77.7820912	0.373401232	-1.421201	ASIC1	73.74304189	29.8737552	0.405106088	-1.303628
ENSG000002	2.201284833	0	0	-12.13092	NDUFA13	24.894796	66.67036389	0.373401232	-1.421201	BIN1	266.3554647	107.8774493	0.405013088	-1.30396
KLHL7-DT	2.201284833	0	0	-12.13092	METTL24	12.447398	33.33518194	0.373401232	-1.421201	MKNK1	534.9122143	216.5847252	0.4048977	-1.304371
ENSG000002	2.201284833	0	0	-12.13092	RNASEK	12.447398	33.33518194	0.373401232	-1.421201	EIF2D	689.0021526	278.8217152	0.404674665	-1.305166
LINC01001	2.201284833	0	0	-12.13092	NUS1P1	12.447398	33.33518194	0.373401232	-1.421201	AKAP9	6807.473345	2754.194264	0.404583922	-1.305489

ARHGAP26-I	2.201284833	0	0	-12.13092	CD8A	11.61757147	31.11283648	0.373401232	-1.421201	PLAG1	45.12633907	18.25618373	0.404557164	-1.305585
FOXD3-AS1	2.201284833	0	0	-12.13092	TNFRSF11A	67.2159492	180.0099825	0.373401232	-1.421201	PRKAG1	45.12633907	18.25618373	0.404557164	-1.305585
ENSG000002	2.201284833	0	0	-12.13092	VAV1	34.8527144	93.33850944	0.373401232	-1.421201	STAC3	45.12633907	18.25618373	0.404557164	-1.305585
ENSG000002	2.201284833	0	0	-12.13092	TFAP2B	17.4263572	46.66925472	0.373401232	-1.421201	GRAP2	75.94432672	30.70358173	0.404290657	-1.306535
LINC01353	2.201284833	0	0	-12.13092	CNTN5	9.9579184	26.66814555	0.373401232	-1.421201	PCA3	75.94432672	30.70358173	0.404290657	-1.306535
SEPTIN14P1	2.201284833	0	0	-12.13092	TMEM35A	4.9789592	13.33407278	0.373401232	-1.421201	XYLT2	562.4282747	227.3724701	0.404269274	-1.306612
FBXO36-IT1	2.201284833	0	0	-12.13092	NXF3	4.9789592	13.33407278	0.373401232	-1.421201	SNED1	1188.69381	480.4695628	0.4041996	-1.30686
ENSG000002	2.201284833	0	0	-12.13092	UFSP1	4.9789592	13.33407278	0.373401232	-1.421201	TSPYL2	1188.69381	480.4695628	0.4041996	-1.30686
ENSG000002	2.201284833	0	0	-12.13092	OR2AJ1	4.9789592	13.33407278	0.373401232	-1.421201	MARF1	106.7623144	43.15097974	0.40417801	-1.306937
ENSG000002	2.201284833	0	0	-12.13092	CYP4F2	4.9789592	13.33407278	0.373401232	-1.421201	ENC1	1971.250568	796.633472	0.404125932	-1.307123
ENSG000002	2.201284833	0	0	-12.13092	TMEM191C	4.9789592	13.33407278	0.373401232	-1.421201	ANKRD42	445.7601786	180.0723577	0.403966901	-1.307691
LINC01354	2.201284833	0	0	-12.13092	ENSG000002	4.9789592	13.33407278	0.373401232	-1.421201	NOP53	1045.610295	422.3817055	0.403957103	-1.307726
LINC01198	2.201284833	0	0	-12.13092	EPPIN	2.4894796	6.667036389	0.373401232	-1.421201	EIF2AK3	1767.631721	713.6508187	0.403732752	-1.308527
MRPS9-AS1	2.201284833	0	0	-12.13092	SGCG	2.4894796	6.667036389	0.373401232	-1.421201	BBS4	497.4903722	200.8180211	0.403662126	-1.30878
ENSG000002	2.201284833	0	0	-12.13092	MAG	2.4894796	6.667036389	0.373401232	-1.421201	NLRP1	390.7280578	157.6670413	0.403521166	-1.309284
COX7BP6	2.201284833	0	0	-12.13092	RPE65	2.4894796	6.667036389	0.373401232	-1.421201	GBF1	2056.000034	828.9967068	0.403208508	-1.310402
NEBL-AS1	2.201284833	0	0	-12.13092	LAX1	2.4894796	6.667036389	0.373401232	-1.421201	QARS1	1441.841565	580.8785734	0.402872678	-1.311604
ENSG000002	2.201284833	0	0	-12.13092	CD244	2.4894796	6.667036389	0.373401232	-1.421201	PIAS1	3045.477566	1226.483616	0.402722919	-1.312141
ENSG000002	2.201284833	0	0	-12.13092	SPACA3	2.4894796	6.667036389	0.373401232	-1.421201	RAB29	193.7130653	78.00369414	0.402676474	-1.312307
MCTS1	2.201284833	0	0	-12.13092	DMRTC2	2.4894796	6.667036389	0.373401232	-1.421201	ADAM10	5536.231354	2228.084242	0.402455046	-1.3131
RPS15AP12	2.201284833	0	0	-12.13092	BARHL2	2.4894796	6.667036389	0.373401232	-1.421201	ENSG000002	49.52890873	19.9158368	0.402105302	-1.314355
RPS3AP25	2.201284833	0	0	-12.13092	CERS3	2.4894796	6.667036389	0.373401232	-1.421201	RAG1	33.01927249	13.27722453	0.402105302	-1.314355
RAD17P1	2.201284833	0	0	-12.13092	IVL	2.4894796	6.667036389	0.373401232	-1.421201	DUBR	33.01927249	13.27722453	0.402105302	-1.314355
RPS26P42	2.201284833	0	0	-12.13092	S100P	2.4894796	6.667036389	0.373401232	-1.421201	CTBP2P4	33.01927249	13.27722453	0.402105302	-1.314355
ENSG000002	2.201284833	0	0	-12.13092	TVP23A	2.4894796	6.667036389	0.373401232	-1.421201	VSIG1	16.50963624	6.638612267	0.402105302	-1.314355
FAM131C2P	2.201284833	0	0	-12.13092	XKR6	2.4894796	6.667036389	0.373401232	-1.421201	TEX45	16.50963624	6.638612267	0.402105302	-1.314355
NCKAP5-IT1	2.201284833	0	0	-12.13092	TTC36	2.4894796	6.667036389	0.373401232	-1.421201	MSTO2P	16.50963624	6.638612267	0.402105302	-1.314355
ENSG000002	2.201284833	0	0	-12.13092	SLC6A19	2.4894796	6.667036389	0.373401232	-1.421201	SPATA31C1	16.50963624	6.638612267	0.402105302	-1.314355
ENSG000002	2.201284833	0	0	-12.13092	DOK7	2.4894796	6.667036389	0.373401232	-1.421201	NANOGP5	16.50963624	6.638612267	0.402105302	-1.314355
ENSG000002	2.201284833	0	0	-12.13092	LRRC14B	2.4894796	6.667036389	0.373401232	-1.421201	FAM227A	330.1927249	132.7722453	0.402105302	-1.314355
RPL34P27	2.201284833	0	0	-12.13092	AMY1C	2.4894796	6.667036389	0.373401232	-1.421201	GLIPR1	315.8843735	126.9634596	0.401930169	-1.314983
PANK1-AS1	2.201284833	0	0	-12.13092	RNFT1P3	2.4894796	6.667036389	0.373401232	-1.421201	GPR89B	282.865101	113.6862351	0.401909725	-1.315057
ENSG000002	2.201284833	0	0	-12.13092	SMTNL2	2.4894796	6.667036389	0.373401232	-1.421201	CCDC71L	167.2976473	67.2159492	0.401774623	-1.315542
PTPRN2-AS1	2.201284833	0	0	-12.13092	SLC22A24	2.4894796	6.667036389	0.373401232	-1.421201	L3MBTL3	369.8158519	148.5389495	0.401656524	-1.315966
LINC01677	2.201284833	0	0	-12.13092	RTP2	2.4894796	6.667036389	0.373401232	-1.421201	EHD3	256.449683	102.8984901	0.401242415	-1.317454
LINC01722	2.201284833	0	0	-12.13092	TRAV6	2.4894796	6.667036389	0.373401232	-1.421201	PLEK	103.4603871	41.49132667	0.401035873	-1.318197
ATP13A3-DT	2.201284833	0	0	-12.13092	AKR1B1P3	2.4894796	6.667036389	0.373401232	-1.421201	SNX33	486.483948	195.0092353	0.400854409	-1.31885
LINC01271	2.201284833	0	0	-12.13092	GOLGA6B	2.4894796	6.667036389	0.373401232	-1.421201	CYP7B1	469.9743118	188.3706231	0.400810466	-1.319008
LINC01399	2.201284833	0	0	-12.13092	TLE1P1	2.4894796	6.667036389	0.373401232	-1.421201	RNF41	845.2933757	338.5692256	0.400534578	-1.320001
USP17L11	2.201284833	0	0	-12.13092	EEF1A1P11	2.4894796	6.667036389	0.373401232	-1.421201	KCNK6	35.22055732	14.10705107	0.400534578	-1.320001
RPL31P16	2.201284833	0	0	-12.13092	SBK3	2.4894796	6.667036389	0.373401232	-1.421201	LZTR1	35.22055732	14.10705107	0.400534578	-1.320001
SLC28A3-AS	2.201284833	0	0	-12.13092	OBI1-AS1	2.4894796	6.667036389	0.373401232	-1.421201	ZNF704	1700.492533	680.4577574	0.400153334	-1.321375
MIPEPP3	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	TMCO6	72.64239948	29.04392867	0.399820613	-1.322575
CHRM3-AS2	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	ZNF596	91.35332055	36.51236747	0.399682981	-1.323072
RPL17P11	2.201284833	0	0	-12.13092	LEFTY1	2.4894796	6.667036389	0.373401232	-1.421201	COL6A3	11128.59547	4447.870219	0.399679387	-1.323085
LINC00460	2.201284833	0	0	-12.13092	TNRC18P1	2.4894796	6.667036389	0.373401232	-1.421201	PHC3	6377.12216	2548.397284	0.399615566	-1.323315
LSM1P1	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	PRDM1	278.4625313	111.1967555	0.399323941	-1.324369
RPL19P6	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	PUDP	93.55460539	37.342194	0.399148645	-1.325002
OR52T1P	2.201284833	0	0	-12.13092	TRABD-AS1	2.4894796	6.667036389	0.373401232	-1.421201	SLC12A2-DT	74.84368431	29.8737552	0.399148645	-1.325002
ANAPC1P1	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	PYCARD	56.13276323	22.4053164	0.399148645	-1.325002
EBAG9P1	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	6.667036389	0.373401232	-1.421201	PABPC1P4	37.42184215	14.9368776	0.399148645	-1.325002
PRR23C	2.201284833	0	0	-12.13092	TSSK6	26.55444907	71.11505481	0.373401232	-1.421201	IL11RA	18.71092108	7.4684388	0.399148645	-1.325002
TRIM49D2	2.201284833	0	0	-12.13092	RAG1	13.27722453	35.55752741	0.373401232	-1.421201	MAEL	18.71092108	7.4684388	0.399148645	-1.325002
RPSAP13	2.201284833	0	0	-12.13092	TRIM16L	13.27722453	35.55752741	0.373401232	-1.421201	MYLK4	18.71092108	7.4684388	0.399148645	-1.325002
TLE1-DT	2.201284833	0	0	-12.13092	SKIC2	9.128091867	24.44580009	0.373401232	-1.421201	GRIN2B	18.71092108	7.4684388	0.399148645	-1.325002
IGKV3OR2-2	2.201284833	0	0	-12.13092	HAO2	6.638612267	17.7787637	0.373401232	-1.421201	PARP3	112.2655265	44.8106328	0.399148645	-1.325002
ENSG000002	2.201284833	0	0	-12.13092	TCP11	6.638612267	17.7787637	0.373401232	-1.421201	ATOSA	986.175605	393.3377768	0.39885166	-1.326076
CBX3P10	2.201284833	0	0	-12.13092	CFAP161	6.638612267	17.7787637	0.373401232	-1.421201	LRP10	1034.603871	412.4237871	0.398629658	-1.326879
ENSG000002	2.201284833	0	0	-12.13092	CYSLTR1	6.638612267	17.7787637	0.373401232	-1.421201	TRMT44	175.0021442	69.7054288	0.398311856	-1.32803
ENSG000002	2.201284833	0	0	-12.13092	UGT1A2P	6.638612267	17.7787637	0.373401232	-1.421201	IRAK3	435.8543969	173.4337455	0.397916705	-1.329462
AIMP1P1	2.201284833	0	0	-12.13092	ENSG000002	6.638612267	17.7787637	0.373401232	-1.421201	ATP2B4	1906.312665	758.4614515	0.397868338	-1.329637
ENSG000002	2.201284833	0	0	-12.13092	L1TD1	6.638612267	17.7787637	0.373401232	-1.421201	SEMA5A	160.6937928	63.89664307	0.397629815	-1.330502
TULP3P1	2.201284833	0	0	-12.13092	EEF2K	5.808785734	15.55641824	0.373401232	-1.421201	EIF4BP3	60.5353329	24.06496947	0.397535924	-1.330843
RPS27P19	2.201284833	0	0	-12.13092	IL7	5.808785734	15.55641824	0.373401232	-1.421201	AJM1	60.5353329	24.06496947	0.397535924	-1.330843
ST13P18	2.201284833	0	0	-12.13092	LGI1	5.808785734	15.55641824	0.373401232	-1.421201	OAS2	141.9828717	56.42820427	0.397429659	-1.331229
MRPS10P2	2.201284833	0	0	-12.13092	ARHGEF26	5.808785734	15.55641824	0.373401232	-1.421201	NKTR	4780.090014	1899.472935	0.397371792	-1.331439
JAZF1-AS1	2.201284833	0	0	-12.13092	MS4A2	5.808785734	15.55641824	0.373401232	-1.421201	MAB21L4	123.2719506	48.95976547	0.397168741	-1.332176
ENSG000002	2.201284833	0	0	-12.13092	EIF4EBP3	5.808785734	15.55641824	0.373401232	-1.421201	EFHD1	125.4732355	49.789592	0.396814443	-1.333464
CSNK1G2P1	2.201284833	0	0	-12.13092	CLXN	3.319306133	8.889381852	0.373401232	-1.421201	C14orf39	41.82441182	16.59653067	0.396814443	-1.333464
ENSG000002	2.201284833	0	0	-12.13092	TRPC5	3.319306133	8.889381852	0.373401232	-1.421201	FMNL1-AS1	41.82441182	16.59653067	0.396814443	-1.333464
ENSG000002	2.201284833	0	0	-12.13092	P2RX5	3.319306133	8.889381852	0.373401232	-1.421201	ACAD11	41.82441182	16.59653067	0.396814443	-1.333464
KAZN-AS1	2.201284833	0	0	-12.13092	OGFOD2	3.319306133	8.889381852	0.373401232	-1.421201	SLC6A15	20.91220591	8.298265334	0.396814443	-1.333464
AGPAT5P1	2.201284833	0	0	-12.13092	GZMK	3.319306133	8.889381852	0.373401232	-1.421201	OR2B6	20.91220591	8.298265334	0.396814443	-1.333464
LINC00412	2.201284833	0	0	-12.13092	KCNS1	3.319306133	8.889381852	0.373401232	-1.421201	AGAP6	20.91220591	8.298265334	0.396814443	-1.333464
HSPA8P3	2.201284833	0	0	-12.13092	KLHL1	3.319306133	8.889381852	0.373401232	-1.421201	EPB41L4A-A	20.91220591	8.298265334	0.396814443	-1.333464
LINC02925	2.201284833	0	0	-12.13092	ICOSLG	3.319306133	8.889381852	0.373401232	-1.421201	ECHDC2	919.0364176	364.2938481	0.396386739	-1.335019
MIR155HG	2.201284833	0	0	-12.13092	OR1A1	3.319306133	8.889381852	0.373401232	-1.421201	C6orf163	85.85010847	34.02288787	0.396305706	-1.335314
ATP5PDP4	2.201284833	0	0	-12.13092	OR5A1	3.319306133	8.889381852	0.373401232	-1.421201	RSPH1	243.241974	96.25987787	0.395737118	-1.337386
ENSG000002	2.201284833	0	0	-12.13092	CADM2	3.319306133	8.889381852	0.373401232	-1.421201	C2CD2	643.8758135	254.7567457	0.395661307	-1.337662
RPL17P48	2.201284833	0	0	-12.13092	ERAS	3.319306133	8.889381852	0.373401232	-1.421201	SOBP	599.8501169	237.3303885	0.395649483	-1.337705
ENSG000002	2.201284833	0	0	-12.13092	TPSB2	3.319306133	8.889381852	0.373401232	-1.421201	TMEM129	111.164884	43.98080627	0.395635786	-1.337755
DPP10-AS1	2.201284833	0	0	-12.13092	CYP2A13	3.319306133	8.889381852	0.373401232	-1.421201	TTLL12	514.0000084	203.3075007	0.395539878	-1.338105
HMGN1P30	2.201284833	0	0	-12.13092	OR8G1	3.319306133	8.889381852	0.373401232	-1.421201	SLC2A9	90.25267814	35.68254093	0.395362683	-1.338751
ENSG000002	2.201284833	0	0	-12.13092	PPP1R11	3.319306133	8.889381852	0.373401232	-1.421201	KIAA1328	365.4132822	144.3898168	0.395141129	-1.33956
ENSG000002	2.201284833	0	0	-12.13092	C10orf105	3.319306133	8.889381852	0.373401232	-1.421201	WNT10A	23.11349074	9.128091867	0.39492485	-1.34035
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	3.319306133	8.889381852	0.373401232	-1.421201	PHKG1	23.11349074	9.128091867	0.39492485	-1.34035
ENSG000002	2.201284833	0	0	-12.13092	NPIPB7	3.319306133	8.889381852	0.373401232	-1.421201	LINGO4	23.11349074	9.128091867	0.39492485	-1.34035
HMGB3P23	2.201284833	0	0	-12.13092	PTBP1P	3.319306133	8.889381852	0.373401232	-1.421201	SOCS2-AS1	23.11349074	9.128091867	0.39492485	-1.34035
TMEM30CP	2.201284833	0	0	-12.13092	ENSG000002	3.319306133	8.889381852	0.373401232	-1.421201	ENSG000002	23.11349074	9.128091867	0.39492485	-1.34035
ENSG000002	2.201284833	0	0	-12.13092	SLC6A7	1.659653067	4.444690926	0.373401232	-1.421201	CHST12	325.7901552	128.6231127	0.394803559	-1.340793
TATDN2P3	2.201284833	0	0	-12.13092	LY75	1.659653067	4.444690926	0.373401232	-1.421201	APBB2	1526.591031	602.4540632	0.394640117	-1.34139
SPAAR	2.201284833	0	0	-12.13092	SLC32A1	1.659653067	4.444690926	0.373401232	-1.421201	EFNA1	214.6252712	84.6423064	0.394372508	-1.342369
LINC01102	2.201284833	0	0	-12.13092	CD160	1.659653067	4.444690926	0.373401232	-1.421201	SLC43A3	71.54175706	28.21410213	0.394372508	-1.342369
ENSG000002	2.201284833	0	0	-12.13092	TREH	1.659653067	4.444690926	0.373401232	-1.421201	STX19	71.54175706	28.21410213	0.394372508	-1.342369
ENSG000002	2.201284833	0	0	-12.13092	ARR3	1.659653067	4.444690926	0.373401232	-1.421201	ZNF83	2197.982905	866.3389008	0.394151792	-1.343177
RBMS3-AS3	2.201284833	0	0	-12.13092	CACNG8	1.659653067	4.444690926	0.373401232	-1.421201	CHD9	6164.698174	2429.73209	0.394136423	-1.343233
MORC2-AS1	2.201284833	0	0	-12.13092	RGL4	1.659653067	4.444690926	0.373401232	-1.421201	RGL1	657.0835225	258.9058784	0.394022783	-1.343649
LINC01936	2.201284833	0	0	-12.13092	KLHL10	1.659653067	4.444690926	0.373401232	-1.421201	RNFT1	301.5760221	118.6651943	0.393483519	-1.345625
SSBL5P	2.201284833	0	0	-12.13092	LHX8	1.659653067	4.444690926	0.373401232	-1.421201	GMNC	25.31477557	9.9579184	0.393363882	-1.346064
LDHAP3	2.201284833	0	0	-12.13092	PGLYRP4	1.659653067	4.444690926	0.373401232	-1.421201	THBS4-AS1	25.31477557	9.9579184	0.393363882	-1.346064
ENSG000002	2.201284833	0	0	-12.13092	TEKT1	1.659653067	4.444690926	0.373401232	-1.421201	LRRC37A3	287.2676707	112.8564085	0.392861502	-1.347907

CDC42EP3-A	2.201284833	0	0	-12.13092	C7orf33	1.659653067	4.444690926	0.373401232	-1.421201	IMMP2L	238.8394043	93.77039827	0.392608575	-1.348836
ENSG000002	2.201284833	0	0	-12.13092	ZBED2	1.659653067	4.444690926	0.373401232	-1.421201	ATG2B	2316.852286	909.4898806	0.392554107	-1.349037
ENSG000002	2.201284833	0	0	-12.13092	WFDC11	1.659653067	4.444690926	0.373401232	-1.421201	NFASC	881.6145755	346.0376644	0.392504473	-1.349219
MRGPRG-AS	2.201284833	0	0	-12.13092	OR3A1	1.659653067	4.444690926	0.373401232	-1.421201	FZD10	27.51606041	10.78774493	0.392052669	-1.350881
LINC02646	2.201284833	0	0	-12.13092	GSX2	1.659653067	4.444690926	0.373401232	-1.421201	CKMT2	27.51606041	10.78774493	0.392052669	-1.350881
ENSG000002	2.201284833	0	0	-12.13092	GBP6	1.659653067	4.444690926	0.373401232	-1.421201	CEP295NL	27.51606041	10.78774493	0.392052669	-1.350881
SLC35G4	2.201284833	0	0	-12.13092	RP1L1	1.659653067	4.444690926	0.373401232	-1.421201	OXCT2P1	27.51606041	10.78774493	0.392052669	-1.350881
SLC4A1APP2	2.201284833	0	0	-12.13092	OPCML	1.659653067	4.444690926	0.373401232	-1.421201	WIPI1	385.2248457	151.0284291	0.392052669	-1.350881
RPS27P8	2.201284833	0	0	-12.13092	OR5W2	1.659653067	4.444690926	0.373401232	-1.421201	CAPG	247.6445437	97.0897044	0.392052669	-1.350881
ENSG000002	2.201284833	0	0	-12.13092	RTL4	1.659653067	4.444690926	0.373401232	-1.421201	BICD1	1077.528926	422.3817055	0.39199106	-1.351107
EIF2S2P3	2.201284833	0	0	-12.13092	NKAIN2	1.659653067	4.444690926	0.373401232	-1.421201	SHANK2	4334.329835	1698.654914	0.391907164	-1.351416
LINC01231	2.201284833	0	0	-12.13092	OR6Y1	1.659653067	4.444690926	0.373401232	-1.421201	GGA1	556.9250626	218.2443783	0.391873868	-1.351539
ENSG000002	2.201284833	0	0	-12.13092	GPX6	1.659653067	4.444690926	0.373401232	-1.421201	STAT5A	396.2312699	155.1775617	0.39163381	-1.352423
HNRNPA1P7	2.201284833	0	0	-12.13092	CD177P1	1.659653067	4.444690926	0.373401232	-1.421201	PARP11	311.4818038	121.9845004	0.391626409	-1.35245
LINC01923	2.201284833	0	0	-12.13092	HSPD1P16	1.659653067	4.444690926	0.373401232	-1.421201	TDRKH	574.5353413	224.8829905	0.391417158	-1.353221
MTCO1P10	2.201284833	0	0	-12.13092	C1DP3	1.659653067	4.444690926	0.373401232	-1.421201	FHIP2B	409.4389789	160.1565209	0.391160904	-1.354166
EIF1AXP1	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	LPAR5	29.71734524	11.61757147	0.39093571	-1.354997
RPL7AP15	2.201284833	0	0	-12.13092	USF1P1	1.659653067	4.444690926	0.373401232	-1.421201	BICC1	1292.154197	504.5345323	0.390460004	-1.356753
ENSG000002	2.201284833	0	0	-12.13092	EEF1DP2	1.659653067	4.444690926	0.373401232	-1.421201	ANO1	812.2741032	316.9937357	0.390254638	-1.357512
LINC01474	2.201284833	0	0	-12.13092	SNX19P1	1.659653067	4.444690926	0.373401232	-1.421201	PTGS1	125.4732355	48.95976547	0.390200869	-1.357711
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	TBPL1	442.4582514	172.6039189	0.390102159	-1.358076
ENSG000002	2.201284833	0	0	-12.13092	UBE3AP2	1.659653067	4.444690926	0.373401232	-1.421201	NALCN	31.91863007	12.447398	0.389972814	-1.358555
ZBTB40-IT1	2.201284833	0	0	-12.13092	UGT1A12P	1.659653067	4.444690926	0.373401232	-1.421201	CTH	127.6745203	49.789592	0.389972814	-1.358555
LINC01968	2.201284833	0	0	-12.13092	H3P1	1.659653067	4.444690926	0.373401232	-1.421201	TTC39A	576.7366261	224.8829905	0.3899232	-1.358738
TRDD2	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	USP4	1117.152053	434.8291035	0.389230009	-1.361305
ENSG000002	2.201284833	0	0	-12.13092	ECE1-AS1	1.659653067	4.444690926	0.373401232	-1.421201	WBP1	34.11991491	13.27722453	0.389134163	-1.36166
HOXD-AS2	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	GRAMD2A	70.44111464	27.3842756	0.388754149	-1.36307
PKN2-AS1	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	ZDHHC1	72.64239948	28.21410213	0.388397167	-1.364395
LINC00857	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	AUTS2	4575.370525	1775.828781	0.388127862	-1.365396
ENSG000002	2.201284833	0	0	-12.13092	IGKV2D-29	1.659653067	4.444690926	0.373401232	-1.421201	DCST2	74.84368431	29.04392867	0.388061183	-1.365644
LINC01275	2.201284833	0	0	-12.13092	FAM86HP	1.659653067	4.444690926	0.373401232	-1.421201	ZNF613	650.479668	252.2672661	0.387817296	-1.366551
HMGB3P5	2.201284833	0	0	-12.13092	SLC2A3P4	1.659653067	4.444690926	0.373401232	-1.421201	MIR3936HG	38.52248457	14.9368776	0.387744398	-1.366822
ENSG000002	2.201284833	0	0	-12.13092	OR4C7P	1.659653067	4.444690926	0.373401232	-1.421201	PRKAA2	432.5524696	167.6249597	0.387525148	-1.367638
LINC02631	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	LGALS9	158.4925079	61.40716347	0.387445213	-1.367936
ENSG000002	2.201284833	0	0	-12.13092	HLX-AS1	1.659653067	4.444690926	0.373401232	-1.421201	TNFRSF12A	79.24625397	30.70358173	0.387445213	-1.367936
PLLPP1	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	GAS7	244.3426164	94.6002248	0.387162199	-1.36899
MATR3P3	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	GDPD3	40.7237694	15.76670413	0.387162199	-1.36899
NFIA-AS2	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	OTOGL	40.7237694	15.76670413	0.387162199	-1.36899
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	IL18R1	126.5738779	48.95976547	0.386807818	-1.370311
PRKCQ-AS1	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	GATAD1	296.07281	114.5160616	0.386783446	-1.370402
KCNMB2-AS	2.201284833	0	0	-12.13092	GOLGA6L22	1.659653067	4.444690926	0.373401232	-1.421201	MPI	465.5717421	180.0723577	0.38677682	-1.370427
LINC01679	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	SGSM1	255.3490406	98.74935747	0.386723041	-1.370627
LNCATV	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	CPEB3	386.3254881	149.368776	0.386639713	-1.370938
TNFRSF14-A	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	LARP6	429.2505424	165.9653067	0.386639713	-1.370938
SNORD11	2.201284833	0	0	-12.13092	FKBP1AP4	1.659653067	4.444690926	0.373401232	-1.421201	PCDH15	42.92505424	16.59653067	0.386639713	-1.370938
SNORD13	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	POLM	176.1027866	68.04577574	0.386398064	-1.37184
ENSG000002	2.201284833	0	0	-12.13092	RCAN3AS	1.659653067	4.444690926	0.373401232	-1.421201	NEO1	3644.22704	1406.555974	0.385968261	-1.373446
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	TNS2	1632.252703	629.0085123	0.385362212	-1.375713
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	ACBD4	152.9892959	58.91768387	0.385109844	-1.376658
LINC02008	2.201284833	0	0	-12.13092	ENSG000002	1.659653067	4.444690926	0.373401232	-1.421201	ABI3	51.73019357	19.9158368	0.384994438	-1.37709
ST3GAL6-AS	2.201284833	0	0	-12.13092	PRSS3	0.829826533	2.222345463	0.373401232	-1.421201	SASH3	51.73019357	19.9158368	0.384994438	-1.37709
ENSG000002	2.201284833	0	0	-12.13092	CCT8L1P	0.829826533	2.222345463	0.373401232	-1.421201	TIMP3	2061.503246	793.3141659	0.384823147	-1.377733
ENSG000002	2.201284833	0	0	-12.13092	CPSF1	0.829826533	2.222345463	0.373401232	-1.421201	ARHGEF33	56.13276323	21.57548987	0.384365362	-1.37945
RN7SL587P	2.201284833	0	0	-12.13092	NAALAD2	0.829826533	2.222345463	0.373401232	-1.421201	PPL	1032.402586	396.6570829	0.384207758	-1.380041
MEAF6P1	2.201284833	0	0	-12.13092	P2RY10	0.829826533	2.222345463	0.373401232	-1.421201	TGFB1I1	235.5374771	90.45109214	0.384019958	-1.380747
ENSG000002	2.201284833	0	0	-12.13092	OTUB2	0.829826533	2.222345463	0.373401232	-1.421201	CFLAR	1466.055699	562.6223896	0.38376604	-1.381701
ENSG000002	2.201284833	0	0	-12.13092	FETUB	0.829826533	2.222345463	0.373401232	-1.421201	SETBP1	2522.672418	966.7479114	0.383223721	-1.383741
RPS12P27	2.201284833	0	0	-12.13092	PDE6C	0.829826533	2.222345463	0.373401232	-1.421201	EPS15	2947.520391	1128.564085	0.38288593	-1.385013
C1QTNF9	2.201284833	0	0	-12.13092	IL11	0.829826533	2.222345463	0.373401232	-1.421201	RIPOR1	1593.730219	609.922502	0.382701222	-1.38571
ENSG000002	2.201284833	0	0	-12.13092	NKAIN4	0.829826533	2.222345463	0.373401232	-1.421201	RHOD	73.74304189	28.21410213	0.382600194	-1.38609
RN7SL559P	2.201284833	0	0	-12.13092	PAX4	0.829826533	2.222345463	0.373401232	-1.421201	CCDC102A	75.94432672	29.04392867	0.382437108	-1.386706
RPS15P9	2.201284833	0	0	-12.13092	APOBEC1	0.829826533	2.222345463	0.373401232	-1.421201	EEPD1	247.6445437	94.6002248	0.382000037	-1.388355
RN7SL328P	2.201284833	0	0	-12.13092	PKIB	0.829826533	2.222345463	0.373401232	-1.421201	DUSP7	539.314784	205.7969803	0.381589725	-1.389906
C1QTNF9-AS	2.201284833	0	0	-12.13092	CIDEB	0.829826533	2.222345463	0.373401232	-1.421201	PLS3	778.1541883	296.2480724	0.380706134	-1.39325
ENSG000002	2.201284833	0	0	-12.13092	ZNF365	0.829826533	2.222345463	0.373401232	-1.421201	SHROOM1	239.9400468	91.28091867	0.380432195	-1.394289
RN7SL505P	2.201284833	0	0	-12.13092	SLC25A47	0.829826533	2.222345463	0.373401232	-1.421201	AMMECR1	246.5439013	93.77039827	0.380339557	-1.39464
EEF1A1P25	2.201284833	0	0	-12.13092	B3GALNT2	0.829826533	2.222345463	0.373401232	-1.421201	MYO5C	1385.708802	526.9398487	0.380267375	-1.394914
RPS15AP24	2.201284833	0	0	-12.13092	DRGX	0.829826533	2.222345463	0.373401232	-1.421201	FASN	13840.57838	5261.930048	0.38018137	-1.39524
ENSG000002	2.201284833	0	0	-12.13092	OR5P1P	0.829826533	2.222345463	0.373401232	-1.421201	HACD1	133.1777324	50.61941854	0.380089206	-1.39559
CBLL1-AS1	2.201284833	0	0	-12.13092	MOBP	0.829826533	2.222345463	0.373401232	-1.421201	KIAA0319L	2665.755932	1013.218197	0.380086633	-1.3956
MTND4P16	2.201284833	0	0	-12.13092	OR10A4	0.829826533	2.222345463	0.373401232	-1.421201	PARVA	567.9314868	215.7548987	0.379895997	-1.396324
RPL7P42	2.201284833	0	0	-12.13092	XAGE5	0.829826533	2.222345463	0.373401232	-1.421201	ZNFX1	3151.139238	1195.780035	0.379475467	-1.397921
ENSG000002	2.201284833	0	0	-12.13092	FAM156B	0.829826533	2.222345463	0.373401232	-1.421201	TBCK	883.8158603	335.2499195	0.379321004	-1.398509
RPS29P21	2.201284833	0	0	-12.13092	OTOP2	0.829826533	2.222345463	0.373401232	-1.421201	MAP3K5	2682.265569	1017.36733	0.379294035	-1.398611
RN7SL517P	2.201284833	0	0	-12.13092	MYADML2	0.829826533	2.222345463	0.373401232	-1.421201	ROR1	396.2312699	150.1986025	0.379068019	-1.399471
ENSG000002	2.201284833	0	0	-12.13092	KRTAP6-2	0.829826533	2.222345463	0.373401232	-1.421201	POM121C	1594.830861	604.1137163	0.37879485	-1.400511
RN7SL655P	2.201284833	0	0	-12.13092	DYNLT4	0.829826533	2.222345463	0.373401232	-1.421201	TEX264	311.4818038	117.8353677	0.378305783	-1.402375
RPS4XP19	2.201284833	0	0	-12.13092	LINC00943	0.829826533	2.222345463	0.373401232	-1.421201	IL4R	629.5674621	238.1602151	0.37829181	-1.402429
ENSG000002	2.201284833	0	0	-12.13092	OR8A1	0.829826533	2.222345463	0.373401232	-1.421201	SLFN5	887.1177875	335.2499195	0.377909139	-1.403889
ARHGDIG	2.201284833	0	0	-12.13092	ANKRD36B	0.829826533	2.222345463	0.373401232	-1.421201	SULF2	584.4411231	220.7338579	0.377683652	-1.40475
NECTIN3-AS	2.201284833	0	0	-12.13092	RPS26P11	0.829826533	2.222345463	0.373401232	-1.421201	C1orf21	844.1927333	318.6533888	0.377465212	-1.405584
ENSG000002	2.201284833	0	0	-12.13092	ATP11AUN	0.829826533	2.222345463	0.373401232	-1.421201	MSS51	101.2591023	38.17202053	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF658B	0.829826533	2.222345463	0.373401232	-1.421201	MRPL2	90.25267814	34.02288787	0.376973721	-1.407464
CFAP20DC-A	2.201284833	0	0	-12.13092	RN7SKP292	0.829826533	2.222345463	0.373401232	-1.421201	SAXO2	66.03854498	24.894796	0.376973721	-1.407464
MRE11P1	2.201284833	0	0	-12.13092	E2F3P2	0.829826533	2.222345463	0.373401232	-1.421201	CCDC175	33.01927249	12.447398	0.376973721	-1.407464
DCAF13P1	2.201284833	0	0	-12.13092	IGLV4-60	0.829826533	2.222345463	0.373401232	-1.421201	MKRN7P	33.01927249	12.447398	0.376973721	-1.407464
RPL21P11	2.201284833	0	0	-12.13092	TRAV27	0.829826533	2.222345463	0.373401232	-1.421201	AP5Z1	220.1284833	82.98265334	0.376973721	-1.407464
TUBAP13	2.201284833	0	0	-12.13092	RNF11P1	0.829826533	2.222345463	0.373401232	-1.421201	CD22	24.21413316	9.128091867	0.376973721	-1.407464
LINC00971	2.201284833	0	0	-12.13092	NUDCP1	0.829826533	2.222345463	0.373401232	-1.421201	NINJ2	24.21413316	9.128091867	0.376973721	-1.407464
RN7SL581P	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OMA1	1197.498949	451.4256342	0.376973721	-1.407464
RN7SL806P	2.201284833	0	0	-12.13092	FAM220CP	0.829826533	2.222345463	0.373401232	-1.421201	SFXN3	138.6809445	52.2790716	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KRT18P17	0.829826533	2.222345463	0.373401232	-1.421201	IL2RA	74.84368431	28.21410213	0.376973721	-1.407464
RPS26P21	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	MMP21	28.61670282	10.78774493	0.376973721	-1.407464
RPL21P13	2.201284833	0	0	-12.13092	PAFAH1B2P	0.829826533	2.222345463	0.373401232	-1.421201	CAVIN2	253.1477557	95.43005134	0.376973721	-1.407464
RN7SL812P	2.201284833	0	0	-12.13092	FOXO1B	0.829826533	2.222345463	0.373401232	-1.421201	H1-6	83.64882364	31.53340827	0.376973721	-1.407464
RPL7P49	2.201284833	0	0	-12.13092	SYT14P1	0.829826533	2.222345463	0.373401232	-1.421201	CC2D2B	61.63597531	23.23514293	0.376973721	-1.407464
RN7SL239P	2.201284833	0	0	-12.13092	HMGB3P24	0.829826533	2.222345463	0.373401232	-1.421201	ENO4	41.82441182	15.76670413	0.376973721	-1.407464
RPS3P7	2.201284833	0	0	-12.13092	C20orf202	0.829826533	2.222345463	0.373401232	-1.421201	CTTNBP2	460.06853	173.4337455	0.376973721	-1.407464
MLF1-DT	2.201284833	0	0	-12.13092	POM121L14	0.829826533	2.222345463	0.373401232	-1.421201	ANO2	107.8629568	40.66150013	0.376973721	-1.407464
GUCY2GP	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	IL12RB2	52.83083598	19.9158368	0.376973721	-1.407464
PTPRVP	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OAZ3	52.83083598	19.9158368	0.376973721	-1.407464

RN7SL141P	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	PRKCG	15.40899383	5.808785734	0.376973721	-1.407464
TICAM2	2.201284833	0	0	-12.13092	MIR1251	0.829826533	2.222345463	0.373401232	-1.421201	PSG1	15.40899383	5.808785734	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SNORA77	0.829826533	2.222345463	0.373401232	-1.421201	RPL23AP7	15.40899383	5.808785734	0.376973721	-1.407464
RN7SL834P	2.201284833	0	0	-12.13092	IGSF3P2	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	15.40899383	5.808785734	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RUNDC3A-A	15.40899383	5.808785734	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	PON1	6.603854498	2.4894796	0.376973721	-1.407464
RPL5P14	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	WNT8B	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC31A1P1	0.829826533	2.222345463	0.373401232	-1.421201	HAS1	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LMX1B-DT	0.829826533	2.222345463	0.373401232	-1.421201	EREG	6.603854498	2.4894796	0.376973721	-1.407464
ACY1	2.201284833	0	0	-12.13092	KIF4CP	0.829826533	2.222345463	0.373401232	-1.421201	PLGLB2	6.603854498	2.4894796	0.376973721	-1.407464
RPS4XP6	2.201284833	0	0	-12.13092	RPL29P20	0.829826533	2.222345463	0.373401232	-1.421201	OR1J1	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CELF6	6.603854498	2.4894796	0.376973721	-1.407464
RPL23AP44	2.201284833	0	0	-12.13092	HMGB1P26	0.829826533	2.222345463	0.373401232	-1.421201	CRIP3	6.603854498	2.4894796	0.376973721	-1.407464
FLNB-AS1	2.201284833	0	0	-12.13092	OR7H1P	0.829826533	2.222345463	0.373401232	-1.421201	PLPP7	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TRAF6P1	0.829826533	2.222345463	0.373401232	-1.421201	DCLK3	6.603854498	2.4894796	0.376973721	-1.407464
RBMY1D	2.201284833	0	0	-12.13092	PRR20D	0.829826533	2.222345463	0.373401232	-1.421201	GTSF1	6.603854498	2.4894796	0.376973721	-1.407464
TPTE2P3	2.201284833	0	0	-12.13092	KRT16P2	0.829826533	2.222345463	0.373401232	-1.421201	IQCF1	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	THAP12P3	0.829826533	2.222345463	0.373401232	-1.421201	RAG2	6.603854498	2.4894796	0.376973721	-1.407464
CD46P1	2.201284833	0	0	-12.13092	PPIAP59	0.829826533	2.222345463	0.373401232	-1.421201	PRR15	6.603854498	2.4894796	0.376973721	-1.407464
ASAH1-AS1	2.201284833	0	0	-12.13092	ATP5MFP2	0.829826533	2.222345463	0.373401232	-1.421201	AMBN	6.603854498	2.4894796	0.376973721	-1.407464
RORA-AS1	2.201284833	0	0	-12.13092	MYLKP1	0.829826533	2.222345463	0.373401232	-1.421201	NLRP8	6.603854498	2.4894796	0.376973721	-1.407464
MIR4300HG	2.201284833	0	0	-12.13092	LINC02768	0.829826533	2.222345463	0.373401232	-1.421201	SLC25A41	6.603854498	2.4894796	0.376973721	-1.407464
ALDH1L1-AS	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	WFDC10B	6.603854498	2.4894796	0.376973721	-1.407464
P4HA3-AS1	2.201284833	0	0	-12.13092	LCEP2	0.829826533	2.222345463	0.373401232	-1.421201	ATP6V0C	6.603854498	2.4894796	0.376973721	-1.407464
LINC00968	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	FAM86B1	6.603854498	2.4894796	0.376973721	-1.407464
CIBAR1-DT	2.201284833	0	0	-12.13092	NFU1P1	0.829826533	2.222345463	0.373401232	-1.421201	QRFPR	6.603854498	2.4894796	0.376973721	-1.407464
MGC16275	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	SLC22A24	6.603854498	2.4894796	0.376973721	-1.407464
COL25A1-DT	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	SLC25A14P1	6.603854498	2.4894796	0.376973721	-1.407464
DYNC1LI2-D	2.201284833	0	0	-12.13092	CUBNP1	0.829826533	2.222345463	0.373401232	-1.421201	DEFB113	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EIF1P3	0.829826533	2.222345463	0.373401232	-1.421201	ATP5PBP1	6.603854498	2.4894796	0.376973721	-1.407464
DNM1P35	2.201284833	0	0	-12.13092	STAT4-AS1	0.829826533	2.222345463	0.373401232	-1.421201	IMPDH1P8	6.603854498	2.4894796	0.376973721	-1.407464
BRPF3-AS1	2.201284833	0	0	-12.13092	FTLP2	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PPIAP70	0.829826533	2.222345463	0.373401232	-1.421201	AKR1B15	6.603854498	2.4894796	0.376973721	-1.407464
NUP107-DT	2.201284833	0	0	-12.13092	TONSL-AS1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
LINC00926	2.201284833	0	0	-12.13092	PPP4R2P5	0.829826533	2.222345463	0.373401232	-1.421201	YY2	6.603854498	2.4894796	0.376973721	-1.407464
LINC02234	2.201284833	0	0	-12.13092	MTIF2P1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CTAGE3P	6.603854498	2.4894796	0.376973721	-1.407464
MTCYBP44	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	SHROOM3-A	6.603854498	2.4894796	0.376973721	-1.407464
LINC02064	2.201284833	0	0	-12.13092	ESRRAP2	0.829826533	2.222345463	0.373401232	-1.421201	TMEM229A	6.603854498	2.4894796	0.376973721	-1.407464
LINC02469	2.201284833	0	0	-12.13092	GSTM5P1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
LETR1	2.201284833	0	0	-12.13092	RPL5P9	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
LINC02058	2.201284833	0	0	-12.13092	PSMC1P10	0.829826533	2.222345463	0.373401232	-1.421201	PURPL	6.603854498	2.4894796	0.376973721	-1.407464
KRT8P48	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	UQCRB-AS1	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SDR42E1P5	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
THUMPD3P1	2.201284833	0	0	-12.13092	LINC02814	0.829826533	2.222345463	0.373401232	-1.421201	MAFTRR	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MCFD2P1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TUBB8P10	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HLA-DQA2	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PHKA2-AS1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MRPL48P1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NUDCP2	0.829826533	2.222345463	0.373401232	-1.421201	SNORD91B	6.603854498	2.4894796	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNF14P3	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
TICAM2-AS1	2.201284833	0	0	-12.13092	MRPL50P2	0.829826533	2.222345463	0.373401232	-1.421201	ACTBP4	6.603854498	2.4894796	0.376973721	-1.407464
LINC00939	2.201284833	0	0	-12.13092	RPL7P15	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	6.603854498	2.4894796	0.376973721	-1.407464
LINC01411	2.201284833	0	0	-12.13092	KRBOX1	0.829826533	2.222345463	0.373401232	-1.421201	PRNCR1	112.2655265	42.3211532	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPL21P4	0.829826533	2.222345463	0.373401232	-1.421201	RPL18AP3	63.83726015	24.06496947	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPL21P98	0.829826533	2.222345463	0.373401232	-1.421201	GPR68	44.02569665	16.59653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EEF1A1P10	0.829826533	2.222345463	0.373401232	-1.421201	COL6A5	44.02569665	16.59653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	THAP12P2	0.829826533	2.222345463	0.373401232	-1.421201	MCF2	22.01284833	8.298265334	0.376973721	-1.407464
MED28-DT	2.201284833	0	0	-12.13092	PPIEL	0.829826533	2.222345463	0.373401232	-1.421201	GRM1	22.01284833	8.298265334	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DEPTOR-AS	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	22.01284833	8.298265334	0.376973721	-1.407464
IFNAR2-IL10	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ABCB11	17.61027866	6.638612267	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGAP42-	0.829826533	2.222345463	0.373401232	-1.421201	CATSPERB	17.61027866	6.638612267	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PTPN11P5	0.829826533	2.222345463	0.373401232	-1.421201	CNTNAP3B	17.61027866	6.638612267	0.376973721	-1.407464
LINC00964	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ELL2P1	17.61027866	6.638612267	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EGFLAM-AS	0.829826533	2.222345463	0.373401232	-1.421201	MTND5P14	17.61027866	6.638612267	0.376973721	-1.407464
RACK1P1	2.201284833	0	0	-12.13092	PPP4R2P4	0.829826533	2.222345463	0.373401232	-1.421201	SLC6A4	11.00642416	4.149132667	0.376973721	-1.407464
NCOA4P2	2.201284833	0	0	-12.13092	TMEM30BP	0.829826533	2.222345463	0.373401232	-1.421201	KLB	11.00642416	4.149132667	0.376973721	-1.407464
LINC02223	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CIB3	11.00642416	4.149132667	0.376973721	-1.407464
TRGV7	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	NLRP13	11.00642416	4.149132667	0.376973721	-1.407464
GJD2-DT	2.201284833	0	0	-12.13092	RNA5-8SP6	0.829826533	2.222345463	0.373401232	-1.421201	KCNIP1	11.00642416	4.149132667	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SERPINE3	0.829826533	2.222345463	0.373401232	-1.421201	OR2AK2	11.00642416	4.149132667	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	NPIPB10P	11.00642416	4.149132667	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CRYZL2P-SI	0.829826533	2.222345463	0.373401232	-1.421201	P2RX5	8.80513933	3.319306133	0.376973721	-1.407464
GIMD1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	GNLY	8.80513933	3.319306133	0.376973721	-1.407464
FAM242C	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CRYGN	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CLEC18B	8.80513933	3.319306133	0.376973721	-1.407464
PPBPP1	2.201284833	0	0	-12.13092	LINC02551	0.829826533	2.222345463	0.373401232	-1.421201	CABS1	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RAB41	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LINC02763	0.829826533	2.222345463	0.373401232	-1.421201	SLC5A12	8.80513933	3.319306133	0.376973721	-1.407464
MTCO2P30	2.201284833	0	0	-12.13092	ARL6IP1P3	0.829826533	2.222345463	0.373401232	-1.421201	KCNJ16	8.80513933	3.319306133	0.376973721	-1.407464
PGAM1P12	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	PPEF2	8.80513933	3.319306133	0.376973721	-1.407464
PPP4R2P1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CABP1	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	BDH1	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	FCRLB	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CAPNS2	0.829826533	2.222345463	0.373401232	-1.421201	CXCL5	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	FBXO40	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ZNF556	8.80513933	3.319306133	0.376973721	-1.407464
NIFKP2	2.201284833	0	0	-12.13092	LINC02305	0.829826533	2.222345463	0.373401232	-1.421201	IFNA10	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CLPSL1	8.80513933	3.319306133	0.376973721	-1.407464
SEPTIN14P4	2.201284833	0	0	-12.13092	CDRT15P13	0.829826533	2.222345463	0.373401232	-1.421201	EXOSC3P1	8.80513933	3.319306133	0.376973721	-1.407464
GSTCD-AS1	2.201284833	0	0	-12.13092	EEF1A1P33	0.829826533	2.222345463	0.373401232	-1.421201	LINC01750	8.80513933	3.319306133	0.376973721	-1.407464
LINC02714	2.201284833	0	0	-12.13092	EIF4EBP1P1	0.829826533	2.222345463	0.373401232	-1.421201	LINC01798	8.80513933	3.319306133	0.376973721	-1.407464
SLC25A15P3	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	NPIPB7	8.80513933	3.319306133	0.376973721	-1.407464
LINC02236	2.201284833	0	0	-12.13092	MPPE1P1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464
LINC00499	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	LINC03000	8.80513933	3.319306133	0.376973721	-1.407464
LINC00958	2.201284833	0	0	-12.13092	IGHV2OR16	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PKD1-AS1	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464
RASGRF2-AS	2.201284833	0	0	-12.13092	HSPB9	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464
NRBF2P6	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464
IMPA1P1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ENSG000002	8.80513933	3.319306133	0.376973721	-1.407464

MTA1-DT	2.201284833	0	0	-12.13092	ENSG00000	0.829826533	2.222345463	0.373401232	-1.421201	LINC03006	8.80513933	3.319306133	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IL9RP4	0.829826533	2.222345463	0.373401232	-1.421201	TAC1	4.402569665	1.659653067	0.376973721	-1.407464
PCDHA12	2.201284833	0	0	-12.13092	TXNP4	0.829826533	2.222345463	0.373401232	-1.421201	EMC9	4.402569665	1.659653067	0.376973721	-1.407464
SCARNA8	2.201284833	0	0	-12.13092	OR1D5	0.829826533	2.222345463	0.373401232	-1.421201	CASP14	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HNRNPCP4	0.829826533	2.222345463	0.373401232	-1.421201	GALNTL5	4.402569665	1.659653067	0.376973721	-1.407464
RNU6-168P	2.201284833	0	0	-12.13092	KIAA0895LI	0.829826533	2.222345463	0.373401232	-1.421201	HAVCR1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LINC00683	0.829826533	2.222345463	0.373401232	-1.421201	ARR3	4.402569665	1.659653067	0.376973721	-1.407464
SNORA74D	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	GHSR	4.402569665	1.659653067	0.376973721	-1.407464
Vault	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	DEFB126	4.402569665	1.659653067	0.376973721	-1.407464
RNA5SP395	2.201284833	0	0	-12.13092	ZNF725P	0.829826533	2.222345463	0.373401232	-1.421201	OR7C2	4.402569665	1.659653067	0.376973721	-1.407464
RNU6-759P	2.201284833	0	0	-12.13092	IGHV3OR16	0.829826533	2.222345463	0.373401232	-1.421201	RFPL3	4.402569665	1.659653067	0.376973721	-1.407464
RNU6-122P	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CNGA4	4.402569665	1.659653067	0.376973721	-1.407464
Y_RNA.125	2.201284833	0	0	-12.13092	NAMA	0.829826533	2.222345463	0.373401232	-1.421201	TAAR6	4.402569665	1.659653067	0.376973721	-1.407464
RNU6-341P	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TAAR8	4.402569665	1.659653067	0.376973721	-1.407464
RNA5SP243	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	VIP	4.402569665	1.659653067	0.376973721	-1.407464
SCARNA3	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	PMP2	4.402569665	1.659653067	0.376973721	-1.407464
SNORD116	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	POM121L2	4.402569665	1.659653067	0.376973721	-1.407464
RNU7-77P	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	WFDC8	4.402569665	1.659653067	0.376973721	-1.407464
RGS21	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TGM7	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RGL4	4.402569665	1.659653067	0.376973721	-1.407464
H2AZP2	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	FTCD	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	LMX1A	4.402569665	1.659653067	0.376973721	-1.407464
NRBF2P4	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TBX20	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNA5-8SN2	0.829826533	2.222345463	0.373401232	-1.421201	LDHC	4.402569665	1.659653067	0.376973721	-1.407464
IGKV1D-22	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OR5I1	4.402569665	1.659653067	0.376973721	-1.407464
ABRAXAS1F	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OR10G3	4.402569665	1.659653067	0.376973721	-1.407464
CTNNA1-AS	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	HSFX1	4.402569665	1.659653067	0.376973721	-1.407464
IKBKB-DT	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	C11orf40	4.402569665	1.659653067	0.376973721	-1.407464
TRBV7-4	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	KLHL38	4.402569665	1.659653067	0.376973721	-1.407464
LINC01605.1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RPL29P16	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OPCML	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TUBA8	4.402569665	1.659653067	0.376973721	-1.407464
TARDBPP4	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	BPIFC	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FAM169BP	0.829826533	2.222345463	0.373401232	-1.421201	NSMCE3	4.402569665	1.659653067	0.376973721	-1.407464
PSAT1P1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TEX38	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GNG14	0.829826533	2.222345463	0.373401232	-1.421201	KRTAP19-6	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OR5W2	4.402569665	1.659653067	0.376973721	-1.407464
CD8B2	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	DHRS4L2	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	LINC03042	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	S100A5	4.402569665	1.659653067	0.376973721	-1.407464
BTF3P3	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	ZNF679	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	OPALIN	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CYP2F1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	KEL	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	CYP2A7	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RNU6-414P	4.402569665	1.659653067	0.376973721	-1.407464
PBOV1	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TRAJ50	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	AURKAP1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	RPS4XP1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	KRTAP10-4	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PYY2	0.829826533	2.222345463	0.373401232	-1.421201	KRASP1	4.402569665	1.659653067	0.376973721	-1.407464
LINC02755	2.201284833	0	0	-12.13092	ENSG000002	0.829826533	2.222345463	0.373401232	-1.421201	TMSB4XP4	4.402569665	1.659653067	0.376973721	-1.407464
MRGPRX13P	2.201284833	0	0	-12.13092	LRRC37A11	0.829826533	2.222345463	0.373401232	-1.421201	THAP12P8	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NIPAL2	83.81247987	224.4568918	0.373401232	-1.421201	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CHST14	73.85456147	197.7887462	0.373401232	-1.421201	TMEM72-AS	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CALHM2	63.06681654	168.8982552	0.373401232	-1.421201	RPL23AP2	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	JPH2	15.76670413	42.22456379	0.373401232	-1.421201	SETP20	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EIF4BP7	15.76670413	42.22456379	0.373401232	-1.421201	TMED2P1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SAXO1	14.9368776	40.00221833	0.373401232	-1.421201	GTF2IP14	4.402569665	1.659653067	0.376973721	-1.407464
TRIM53CP	2.201284833	0	0	-12.13092	ZFR2	10.78774493	28.89049102	0.373401232	-1.421201	EEF1DP2	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HOXB6	8.298265334	22.22345463	0.373401232	-1.421201	ANHX	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TESPA1	8.298265334	22.22345463	0.373401232	-1.421201	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
FAR1-IT1	2.201284833	0	0	-12.13092	TTC16	7.4684388	20.00110917	0.373401232	-1.421201	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FGF22	4.149132667	11.11172731	0.373401232	-1.421201	TMX4-AS1	4.402569665	1.659653067	0.376973721	-1.407464
LINC02727	2.201284833	0	0	-12.13092	SERPINA9	4.149132667	11.11172731	0.373401232	-1.421201	OR5H6	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GBP1P1	4.149132667	11.11172731	0.373401232	-1.421201	ANAPC1P3	4.402569665	1.659653067	0.376973721	-1.407464
LINC02739	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	11.11172731	0.373401232	-1.421201	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
TIRAP-AS1	2.201284833	0	0	-12.13092	USP34-DT	4.149132667	11.11172731	0.373401232	-1.421201	WBP1P1	4.402569665	1.659653067	0.376973721	-1.407464
HTD2	2.201284833	0	0	-12.13092	RER1	389.1886441	1043.391195	0.373003573	-1.422739	LINC00278	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TTC6	945.1724215	2536.807346	0.372583446	-1.424365	GNG12-AS1	4.402569665	1.659653067	0.376973721	-1.407464
CCDC166	2.201284833	0	0	-12.13092	EPB41L2	599.1347571	1610.089288	0.372112753	-1.426188	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF276	116.1757147	312.2395375	0.372072402	-1.426345	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IFNLR1	93.77039827	252.23621	0.371756292	-1.427571	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ERCC2	320.3130419	862.2700396	0.371476483	-1.428657	RPL17P36	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC38A7	76.34404107	205.5669553	0.371382847	-1.429021	TUSC8	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DLGAP3	137.7512045	371.1316923	0.371165296	-1.429866	WAKMAR2	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TGFB3	187.5407965	505.5835928	0.370939246	-1.430745	DGUOK-AS1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	YIPF2	182.5618373	492.24952	0.370872555	-1.431005	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RIC8A	297.9077255	804.4890576	0.370306746	-1.433207	IGKV1D-16	4.402569665	1.659653067	0.376973721	-1.407464
LINC02700	2.201284833	0	0	-12.13092	ERC2	95.43005134	257.7920737	0.370182256	-1.433692	WWTR1-IT1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ERGIC1	1340.999678	3624.64545	0.369967131	-1.434531	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
IFNG-AS1	2.201284833	0	0	-12.13092	TRPM6	43.15097974	116.6731368	0.36984503	-1.435007	ATP5MF-PT(	4.402569665	1.659653067	0.376973721	-1.407464
KLRC4-KLRI	2.201284833	0	0	-12.13092	CST3	1828.107853	4943.607482	0.369792274	-1.435213	SEMA6A-AS	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SCARB1	376.7412461	1018.945395	0.369736443	-1.435431	ATP5MGL	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SETD1B	877.9564723	2374.576127	0.36973187	-1.435449	PTX4	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DHX58	40.66150013	110.0061004	0.369629502	-1.435848	RNU6-1136P	4.402569665	1.659653067	0.376973721	-1.407464
CBX3P4	2.201284833	0	0	-12.13092	TWF2	39.00184707	105.5614095	0.369470693	-1.436468	FAM86HP	4.402569665	1.659653067	0.376973721	-1.407464
URB1-AS1	2.201284833	0	0	-12.13092	SERTM1	37.342194	101.1167186	0.369297922	-1.437143	ZFHX4-AS1	4.402569665	1.659653067	0.376973721	-1.407464
SBNO1-AS1	2.201284833	0	0	-12.13092	SCAMP4	255.5865723	692.2606117	0.369205712	-1.437503	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
LINC02443	2.201284833	0	0	-12.13092	SBF1	754.3123188	2043.446653	0.36913727	-1.437771	MAP2K1P1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ALPK1	71.36508187	193.3440553	0.369109264	-1.43788	CASC19	4.402569665	1.659653067	0.376973721	-1.407464
TMEM167AP	2.201284833	0	0	-12.13092	PPP2R5B	107.0476228	290.0160829	0.369109264	-1.43788	HOXA-AS3	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LTBP2	1031.474381	2794.59942	0.369095611	-1.437934	MYL12AP1	4.402569665	1.659653067	0.376973721	-1.407464
MRGPRF-AS	2.201284833	0	0	-12.13092	NUP54	629.8383388	1706.761315	0.369025436	-1.438208	WTAPP1	4.402569665	1.659653067	0.376973721	-1.407464
TRAV1-2	2.201284833	0	0	-12.13092	MICU3	34.02288787	92.22733671	0.368902422	-1.438689	CYP2A6	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TYK2	768.4193699	2083.448871	0.368820843	-1.439008	USP30-AS1	4.402569665	1.659653067	0.376973721	-1.407464
AK6P1	2.201284833	0	0	-12.13092	PIR	227.3724701	616.7008659	0.368691667	-1.439513	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
CSGALNAC1	2.201284833	0	0	-12.13092	IER2	158.4968679	430.0238471	0.368576926	-1.439962	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
PGA5	2.201284833	0	0	-12.13092	TTLL12	203.3075007	552.2528475	0.36814206	-1.441666	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
SRSF8BP	2.201284833	0	0	-12.13092	PCDH18	359.3148889	976.7208309	0.367878802	-1.442698	TAT-AS1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HAGHL	27.3842756	74.44857301	0.367828079	-1.442896	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464

PRPF19-DT	2.201284833	0	0	-12.13092	SLC22A17	183.3916639	498.9165564	0.367579832	-1.44387	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
C11orf97	2.201284833	0	0	-12.13092	FAM135B	104.5581432	284.4602192	0.367566838	-1.443921	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
LINC02874	2.201284833	0	0	-12.13092	MUTYH	24.894796	67.78153662	0.3672799	-1.445048	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
TAS2R38	2.201284833	0	0	-12.13092	FOS	846.423064	2305.683418	0.367102898	-1.445744	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IKBKG	24.06496947	65.55919115	0.367072397	-1.445863	TAF15	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MOGS	204.9671537	558.9198839	0.366720096	-1.447249	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
KRT126P	2.201284833	0	0	-12.13092	TMEM86A	22.4053164	61.11450023	0.366612119	-1.447674	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
LINC02297	2.201284833	0	0	-12.13092	SPATA18	22.4053164	61.11450023	0.366612119	-1.447674	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
PPP1R12A-A	2.201284833	0	0	-12.13092	ID1	196.6688884	536.6964293	0.366443445	-1.448338	SEC22B3P	4.402569665	1.659653067	0.376973721	-1.407464
HSPD1P4	2.201284833	0	0	-12.13092	RNF213	4250.371504	11611.75504	0.366040404	-1.449925	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
GIHCG	2.201284833	0	0	-12.13092	VIPR1	61.40716347	167.7870824	0.365982664	-1.450153	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC26A6	80.49317374	220.0122008	0.365857773	-1.450645	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	QSOX1	1139.35183	3115.728339	0.365677526	-1.451356	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ANKRD24	38.17202053	104.4502368	0.365456525	-1.452228	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SUOX	169.2846128	463.359029	0.365342212	-1.45268	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
LINC02156	2.201284833	0	0	-12.13092	KLC4	186.71097	511.1394565	0.365283814	-1.45291	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
DDN-AS1	2.201284833	0	0	-12.13092	CUL9	762.6105842	2087.893562	0.365253573	-1.45303	OR8S1	4.402569665	1.659653067	0.376973721	-1.407464
NOP56P3	2.201284833	0	0	-12.13092	HIP1R	302.8866847	830.0460304	0.36490348	-1.454413	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
QRSL1P3	2.201284833	0	0	-12.13092	RPGRIP1	17.4263572	47.78042745	0.364717482	-1.455149	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
LINC02306	2.201284833	0	0	-12.13092	ZNF439	17.4263572	47.78042745	0.364717482	-1.455149	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FAM234A	814.8896558	2234.568363	0.364674301	-1.45532	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
SNX5P2	2.201284833	0	0	-12.13092	PLD3	927.7460643	2544.585555	0.364596137	-1.455629	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
GPR84-AS1.1	2.201284833	0	0	-12.13092	PSAP	9590.305246	26310.34793	0.364506972	-1.455982	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C1orf53	16.59653067	45.55808199	0.364293885	-1.456825	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PLXNA3	756.8017984	2077.893008	0.364215961	-1.457134	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LRPAP1	1043.921779	2867.93682	0.363997481	-1.458	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZSCAN1	15.76670413	43.33573653	0.363826841	-1.458676	ENSG000002	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LRRC53	15.76670413	43.33573653	0.363826841	-1.458676	SMG1P7.1	4.402569665	1.659653067	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MKRN5P	15.76670413	43.33573653	0.363826841	-1.458676	PRSS3	2.201284833	0.829826533	0.376973721	-1.407464
NF1P12	2.201284833	0	0	-12.13092	JADE2	204.9671537	563.3645748	0.363826841	-1.458676	CCT8L1P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	COL7A1	282.1410213	775.5985665	0.363771974	-1.458894	MRPS24	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RHBDD2	319.4832153	878.9376306	0.363487925	-1.460021	SERTAD4	2.201284833	0.829826533	0.376973721	-1.407464
BLZF2P	2.201284833	0	0	-12.13092	RAP1GDS1	394.9974299	1086.726931	0.36347441	-1.460074	FETUB	2.201284833	0.829826533	0.376973721	-1.407464
YBX2P2	2.201284833	0	0	-12.13092	ACSF2	106.2177963	292.2384284	0.363462796	-1.46012	KRT32	2.201284833	0.829826533	0.376973721	-1.407464
LRFN5-DT	2.201284833	0	0	-12.13092	RAD9A	106.2177963	292.2384284	0.363462796	-1.46012	APOA4	2.201284833	0.829826533	0.376973721	-1.407464
BCL2L2-PAB	2.201284833	0	0	-12.13092	ZNF837	14.9368776	41.11339106	0.363309307	-1.46073	MYF6	2.201284833	0.829826533	0.376973721	-1.407464
TRIM34	2.201284833	0	0	-12.13092	FKBP1C	29.8737552	82.22678213	0.363309307	-1.46073	AADAC	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CGN	193.3495823	532.2517384	0.363267169	-1.460897	INSL6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FBXL17	341.8885317	941.1633035	0.363261647	-1.460919	MAGEB4	2.201284833	0.829826533	0.376973721	-1.407464
LINC02328	2.201284833	0	0	-12.13092	DPYD	171.7740924	473.3595836	0.362882887	-1.462424	DPPA4	2.201284833	0.829826533	0.376973721	-1.407464
PPP1R13B-D	2.201284833	0	0	-12.13092	LMF2	227.3724701	626.7014205	0.362808289	-1.462721	CD68	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NBPF26	14.10705107	38.8910456	0.362732625	-1.463022	BPIFA3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	WDR13	488.7678282	1347.852523	0.362627083	-1.463441	RHBG	2.201284833	0.829826533	0.376973721	-1.407464
TRAV32	2.201284833	0	0	-12.13092	WDR97	68.87560227	190.0105371	0.362483067	-1.464014	NMUR2	2.201284833	0.829826533	0.376973721	-1.407464
BHLHB9P1	2.201284833	0	0	-12.13092	IFT172	534.4082875	1474.526215	0.362427119	-1.464237	ANKRD36	2.201284833	0.829826533	0.376973721	-1.407464
LINC02302	2.201284833	0	0	-12.13092	FBXL7	148.5389495	410.0227379	0.36227003	-1.464863	SMPD4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PBLD	53.93872467	148.897146	0.362254926	-1.464923	IL21	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC12A7	80.49317374	222.2345463	0.362199195	-1.465145	KIF2B	2.201284833	0.829826533	0.376973721	-1.407464
PEBP1P1	2.201284833	0	0	-12.13092	PDZRN3	272.1831029	752.2639392	0.361818623	-1.466661	GABRR1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNF43	24.894796	68.89270935	0.361356031	-1.468507	DNAJC5B	2.201284833	0.829826533	0.376973721	-1.407464
LINC00517	2.201284833	0	0	-12.13092	TG	74.684388	206.678128	0.361356031	-1.468507	TMED6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CES4A	37.342194	103.339064	0.361356031	-1.468507	ENSG000001	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PIAS3	645.605043	1788.988098	0.360877215	-1.47042	FMC1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SERF2	1253.038065	3473.525958	0.360739514	-1.470971	UCMA	2.201284833	0.829826533	0.376973721	-1.407464
ACTG1P17	2.201284833	0	0	-12.13092	FAM131A	106.2177963	294.4607738	0.360719681	-1.47105	CMTM5	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DOCK6	847.2528906	2350.130327	0.360513151	-1.471876	OR2B2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EML2	502.8748792	1395.632951	0.360320297	-1.472648	OR2C1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	POU6F1	34.02288787	94.44968217	0.360222365	-1.47304	SPRY3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CRY2	180.9021843	502.2500746	0.360183489	-1.473196	KLK7	2.201284833	0.829826533	0.376973721	-1.407464
SYNM-AS1	2.201284833	0	0	-12.13092	RHPN2	428.1904912	1188.954823	0.360140253	-1.473369	OR7G3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	APOE	190.8601027	530.0293929	0.360093431	-1.473557	OR8B12	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GAL3ST4	44.8106328	124.4513459	0.360065474	-1.473669	CLDN20	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CTRC	10.78774493	30.00166375	0.359571557	-1.475649	VAT1L	2.201284833	0.829826533	0.376973721	-1.407464
LINC01220	2.201284833	0	0	-12.13092	RPP25L	64.7264696	180.0099825	0.359571557	-1.475649	ANGPTL7	2.201284833	0.829826533	0.376973721	-1.407464
CRTC3-AS1	2.201284833	0	0	-12.13092	ACOT1	32.3632348	90.00499125	0.359571557	-1.475649	LDHAL6B	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SOCS3	117.8353677	327.7959558	0.359477796	-1.476025	OR5A2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PIK3IP1	31.53340827	87.78264578	0.359221438	-1.477055	OR5B3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADARB1	429.8501443	1196.733032	0.359186329	-1.477196	CCR9	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CDNF	20.74566333	57.78098203	0.359039646	-1.477785	UGT2A1	2.201284833	0.829826533	0.376973721	-1.407464
UAP1-DT	2.201284833	0	0	-12.13092	FBLN5	101.2388371	282.2378738	0.358700396	-1.479149	ENSG000001	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FRZB	90.45109214	252.23621	0.358596778	-1.479566	DIRC1	2.201284833	0.829826533	0.376973721	-1.407464
CZIB-DT	2.201284833	0	0	-12.13092	IRS1	209.9461129	585.5880295	0.358521866	-1.479867	PMS2P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CCDC61	56.42820427	157.7865279	0.357623715	-1.483486	CRMA	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CAPN13	110.3669289	308.9060193	0.357283193	-1.48486	HORMAD2	2.201284833	0.829826533	0.376973721	-1.407464
THSD4-AS1	2.201284833	0	0	-12.13092	TUFMP1	9.128091867	25.55697282	0.357166396	-1.485332	METRNL	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	COPS7A	216.5847252	606.7003114	0.356987991	-1.486053	OR2T33	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HLF	53.93872467	151.1194915	0.356927648	-1.486296	DEFB114	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FBP1	34.8527144	97.78320037	0.356428449	-1.488316	TSPYL6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RAB25	174.263572	488.9160018	0.356428449	-1.488316	GOLGA8Q	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	INTS1	1077.944667	3024.612175	0.356391036	-1.488467	UCN3	2.201284833	0.829826533	0.376973721	-1.407464
GOLGA2P11	2.201284833	0	0	-12.13092	MGMT	222.3935109	624.4790751	0.356126442	-1.489539	PPIAP33	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RADIL	93.77039827	263.3479374	0.356070373	-1.489766	RTL3	2.201284833	0.829826533	0.376973721	-1.407464
LINC01882	2.201284833	0	0	-12.13092	PIK3R6	16.59653067	46.66925472	0.355620221	-1.491591	OR4K11P	2.201284833	0.829826533	0.376973721	-1.407464
SMG1-DT	2.201284833	0	0	-12.13092	MCF2	8.298265334	23.33462736	0.355620221	-1.491591	OR1E1	2.201284833	0.829826533	0.376973721	-1.407464
LINC00562	2.201284833	0	0	-12.13092	SLC7A10	8.298265334	23.33462736	0.355620221	-1.491591	WFDC9	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	METTL15P1	8.298265334	23.33462736	0.355620221	-1.491591	KCTD4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C1orf105	8.298265334	23.33462736	0.355620221	-1.491591	MTHFD2P7	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CA13	116.1757147	326.684783	0.355620221	-1.491591	CALHM3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DGCR6L	107.0476228	301.1278102	0.355488996	-1.492123	NF1P3	2.201284833	0.829826533	0.376973721	-1.407464
COSMOC	2.201284833	0	0	-12.13092	TMEM214	310.3551235	873.3817669	0.355348755	-1.492692	PGPEP1L	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	COL15A1	64.7264696	182.232328	0.355186538	-1.493351	C15orf32	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OBSCN-AS1	31.53340827	88.89381852	0.35473117	-1.495202	SLC9B1P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PHF12	1874.578139	5284.737511	0.354715468	-1.495266	FIGLA	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGEF10L	287.9498071	812.2672667	0.354501306	-1.496137	DHRS7C	2.201284833	0.829826533	0.376973721	-1.407464
CYCSP39	2.201284833	0	0	-12.13092	ACER2	53.93872467	152.2306642	0.354322337	-1.496866	IFNE	2.201284833	0.829826533	0.376973721	-1.407464
ITPRID2-DT	2.201284833	0	0	-12.13092	NIBAN2	1805.702537	5101.39401	0.35396257	-1.498331	CALHM1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGAP29	1039.772646	2937.940702	0.35391206	-1.498537	OR10T2	2.201284833	0.829826533	0.376973721	-1.407464
UNGP1	2.201284833	0	0	-12.13092	AURKC	7.4684388	21.1122819	0.353748535	-1.499204	TMPRSS12	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG00000	7.4684388	21.1122819	0.353748535	-1.499204	LINC02875	2.201284833	0.829826533	0.376973721	-1.407464
LINC03064	2.201284833	0	0	-12.13092	PCNX3	819.0387884	2316.795145	0.353522317	-1.500127	LCE2A	2.201284833	0.829826533	0.376973721	-1.407464
DOCK9-DT	2.201284833	0	0	-12.13092	EGFL7	285.4603275	807.8225758	0.353370079	-1.500748	TPM3P7	2.201284833	0.829826533	0.376973721	-1.407464

VPS39-DT	2.201284833	0	0	-12.13092	ZNF516	80.49317374	227.7904099	0.353365068	-1.500769	CYP26C1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TBCK	335.2499195	948.9415126	0.353288285	-1.501082	GOLGA6L3P	2.201284833	0.829826533	0.376973721	-1.407464
SULT1A3	2.201284833	0	0	-12.13092	CLCN5	276.3322356	782.2656029	0.353246052	-1.501255	OPTC	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TDRD9	29.04392867	82.22678213	0.353217381	-1.501372	GAGE2A	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	21.57548987	61.11450023	0.353033892	-1.502121	IFITM3P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PKD1P4	64.7264696	183.3435007	0.353033892	-1.502121	GATA3-AS1	2.201284833	0.829826533	0.376973721	-1.407464
EFCAB6-DT	2.201284833	0	0	-12.13092	DDR2	171.7740924	486.6936564	0.35294089	-1.502502	TMEM132E-I	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENDOV	128.6231127	364.4646559	0.352909701	-1.502629	KRTAP26-1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CLCN3	1266.31529	3590.199095	0.352714503	-1.503427	SCGB1D4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PARM1	355.1657563	1007.833667	0.352405132	-1.504693	OR1S2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PROS1	180.0723577	511.1394565	0.352295945	-1.50514	OR2M2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM115	103.7283167	294.4607738	0.352265313	-1.505266	SNORA33	2.201284833	0.829826533	0.376973721	-1.407464
DHX35-DT	2.201284833	0	0	-12.13092	XKR8	48.12993894	136.674246	0.352150755	-1.505735	RNU1-124P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IL12RB2	19.9158368	56.6698093	0.351436453	-1.508664	Y_RNA.36	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNH1	6.638612267	18.88993643	0.351436453	-1.508664	RNU6-1251P	2.201284833	0.829826533	0.376973721	-1.407464
LINC01859	2.201284833	0	0	-12.13092	EPDR1	6.638612267	18.88993643	0.351436453	-1.508664	TDRKH-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MIR4639	6.638612267	18.88993643	0.351436453	-1.508664	LCN8	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	WDR45BP1	6.638612267	18.88993643	0.351436453	-1.508664	NPY4R	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	6.638612267	18.88993643	0.351436453	-1.508664	GDF5-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NR2F1	145.2196433	413.3562561	0.351318363	-1.509149	LINC02872	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM94	799.9527782	2277.904099	0.351179305	-1.50972	CFAP95	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TNS2	629.0085123	1791.210443	0.351163938	-1.509783	OR5D16	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DDX56	153.5179087	437.8020562	0.350655979	-1.511872	LINC02397	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CC2D1B	158.4968679	452.2473017	0.350465038	-1.512658	TTLL10-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HIC1	63.06681654	180.0099825	0.350351773	-1.513124	SLCO1B7	2.201284833	0.829826533	0.376973721	-1.407464
MYMX	2.201284833	0	0	-12.13092	ANKS1A	522.790716	1492.304978	0.350324313	-1.513237	KRTAP27-1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ACSS2	107.0476228	305.5725011	0.350318247	-1.513262	ELOA2	2.201284833	0.829826533	0.376973721	-1.407464
MTND4P34	2.201284833	0	0	-12.13092	FBXW8	182.5618373	521.140011	0.350312456	-1.513286	HNRNPA1P4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BCO2	43.98080627	125.5625187	0.350270182	-1.51346	Y_RNA.87	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NAGLU	112.8564085	322.2400921	0.350224604	-1.513648	MIR136	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NCLN	262.2251845	748.930421	0.350132906	-1.514025	IGLJ4	2.201284833	0.829826533	0.376973721	-1.407464
LINC01977	2.201284833	0	0	-12.13092	FAM166A	12.447398	35.55752741	0.350063655	-1.514311	TRBV6-6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C1QTNF3-A	12.447398	35.55752741	0.350063655	-1.514311	TRAV19	2.201284833	0.829826533	0.376973721	-1.407464
ALOX12P2	2.201284833	0	0	-12.13092	PUDP	37.342194	106.6725822	0.350063655	-1.514311	TRAJ32	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GIGYF1	341.8885317	976.7208309	0.350037105	-1.51442	TRAJ30	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SUSD4	148.5389495	424.4679834	0.349941469	-1.514814	IGHD	2.201284833	0.829826533	0.376973721	-1.407464
EFCAB13-DT	2.201284833	0	0	-12.13092	PLEKHO2	68.04577574	194.455228	0.349930297	-1.514861	RPS26P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	STAT3	1131.053565	3233.512648	0.349790982	-1.515435	RPL29P7	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NDUFA4L2	61.40716347	175.5652916	0.349768242	-1.515529	HMGB3P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPLP0P6	48.95976547	140.0077642	0.349693217	-1.515838	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MIR3679	2.201284833	0	0	-12.13092	MAEA	284.6305009	814.4896121	0.349458724	-1.516806	RPS3P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DENND2C	119.4950208	342.2412013	0.349154399	-1.518063	SEPHS1P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CNKSR1	160.9863475	461.1366835	0.349107658	-1.518256	HNRNPA1P4	2.201284833	0.829826533	0.376973721	-1.407464
MIR3648-2	2.201284833	0	0	-12.13092	CWF19L2	330.2709603	946.7191672	0.348858428	-1.519286	CDRT15L2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PAOX	11.61757147	33.33518194	0.348507816	-1.520737	PRSS41	2.201284833	0.829826533	0.376973721	-1.407464
DNAJB6P8	2.201284833	0	0	-12.13092	SLC28A1	5.808785734	16.66759097	0.348507816	-1.520737	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MIR3162	2.201284833	0	0	-12.13092	HADHAP1	5.808785734	16.66759097	0.348507816	-1.520737	EIF5P1	2.201284833	0.829826533	0.376973721	-1.407464
KRT8P34	2.201284833	0	0	-12.13092	MIR3648-1	5.808785734	16.66759097	0.348507816	-1.520737	IFIT1P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MYT1L	17.4263572	50.00277291	0.348507816	-1.520737	KRT18P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HTRA1	333.5902664	957.8308945	0.348276787	-1.521694	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TRIM8	373.42194	1072.281686	0.348249854	-1.521805	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BTN3A2	63.06681654	181.1211552	0.348202376	-1.522002	RPL35P3	2.201284833	0.829826533	0.376973721	-1.407464
SNORD53	2.201284833	0	0	-12.13092	CDK9	864.6792478	2483.471055	0.348173677	-1.522121	TUBB3P1	2.201284833	0.829826533	0.376973721	-1.407464
SRP72P1	2.201284833	0	0	-12.13092	FGFR1	512.0029711	1472.303869	0.347756317	-1.523851	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	APLNR	33.19306133	95.5608549	0.347349983	-1.525538	TUBBP9	2.201284833	0.829826533	0.376973721	-1.407464
MIR3684	2.201284833	0	0	-12.13092	PC	436.4887566	1257.847532	0.347012452	-1.526941	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MTFR1L	161.816174	466.6925472	0.346729715	-1.528117	OR52B4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AMH	75.51421454	217.7898554	0.346729715	-1.528117	LINC02860	2.201284833	0.829826533	0.376973721	-1.407464
MIR3682	2.201284833	0	0	-12.13092	AKAP17A	21.57548987	62.22567296	0.346729715	-1.528117	LINC01118	2.201284833	0.829826533	0.376973721	-1.407464
LINC01970	2.201284833	0	0	-12.13092	SLC39A6	1230.632749	3551.30805	0.346529429	-1.52895	RNU2-62P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	48.12993894	138.8965914	0.346516343	-1.529005	RNU6-1199P	2.201284833	0.829826533	0.376973721	-1.407464
MIR4427	2.201284833	0	0	-12.13092	CYBC1	382.5500319	1104.505695	0.34635406	-1.529681	SNORD71	2.201284833	0.829826533	0.376973721	-1.407464
ZNF488	2.201284833	0	0	-12.13092	PWWP3B	26.55444907	76.67091847	0.346343172	-1.529726	MEG9	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CHPF	850.5721967	2456.802909	0.346211002	-1.530277	RBM7P1	2.201284833	0.829826533	0.376973721	-1.407464
MIR544B	2.201284833	0	0	-12.13092	INTS12	416.5729197	1203.400068	0.346163284	-1.530475	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC35E4	15.76670413	45.55808199	0.34607919	-1.530826	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PLK3	52.2790716	151.1194915	0.345945259	-1.531384	SIRPB3P	2.201284833	0.829826533	0.376973721	-1.407464
RHOT1P1	2.201284833	0	0	-12.13092	ALDH6A1	571.7504815	1653.425024	0.345797646	-1.532	SEC13P1	2.201284833	0.829826533	0.376973721	-1.407464
MIR3611	2.201284833	0	0	-12.13092	ASL	41.49132667	120.006655	0.345741881	-1.532233	RPL18AP9	2.201284833	0.829826533	0.376973721	-1.407464
LINC02933	2.201284833	0	0	-12.13092	NUMA1	5554.028988	16073.11356	0.345547797	-1.533043	ATP5F1CP1	2.201284833	0.829826533	0.376973721	-1.407464
DYNLL2-DT	2.201284833	0	0	-12.13092	TMOD4	25.72462253	74.44857301	0.345535468	-1.533094	LINC02636	2.201284833	0.829826533	0.376973721	-1.407464
ARIH2P1	2.201284833	0	0	-12.13092	PRICKLE2	55.59837774	161.1200461	0.345074242	-1.535021	C4B	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SUMF1	538.5574202	1561.197688	0.34496427	-1.535481	RPL17P10	2.201284833	0.829826533	0.376973721	-1.407464
MIR4273	2.201284833	0	0	-12.13092	SLC26A4	19.9158368	57.78098203	0.34467806	-1.536679	FLVCR2-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GABRA1	4.9789592	14.44524551	0.34467806	-1.536679	CATIP-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	JPH4	4.9789592	14.44524551	0.34467806	-1.536679	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	H1-1	4.9789592	14.44524551	0.34467806	-1.536679	MIR137HG	2.201284833	0.829826533	0.376973721	-1.407464
MIR3619	2.201284833	0	0	-12.13092	HS3ST3A1	4.9789592	14.44524551	0.34467806	-1.536679	RPS27AP12	2.201284833	0.829826533	0.376973721	-1.407464
MIR3692	2.201284833	0	0	-12.13092	TAL1	4.9789592	14.44524551	0.34467806	-1.536679	LINC00350	2.201284833	0.829826533	0.376973721	-1.407464
GTF2IP6	2.201284833	0	0	-12.13092	SLC18A2	4.9789592	14.44524551	0.34467806	-1.536679	LINC01821	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OR1L8	4.9789592	14.44524551	0.34467806	-1.536679	CCT4P2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OR56A4	4.9789592	14.44524551	0.34467806	-1.536679	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MRPL37P1	2.201284833	0	0	-12.13092	C17orf97	4.9789592	14.44524551	0.34467806	-1.536679	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LIMASI	2.201284833	0	0	-12.13092	OR10D3	4.9789592	14.44524551	0.34467806	-1.536679	HNRNPA1P3	2.201284833	0.829826533	0.376973721	-1.407464
RANBP3-DT	2.201284833	0	0	-12.13092	RNASEH1P1	4.9789592	14.44524551	0.34467806	-1.536679	CFLAR-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARRDC2	147.7091229	428.9126743	0.344380411	-1.537925	LINC02909	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZBTB16	757.631625	2201.233181	0.344185083	-1.538744	SHISA5P1	2.201284833	0.829826533	0.376973721	-1.407464
LINC01905	2.201284833	0	0	-12.13092	SH3RF1	523.6205426	1522.306642	0.343965222	-1.539665	PRKCZ-DT	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DRICH1	19.08601027	55.55863657	0.343529133	-1.541496	LINC01247	2.201284833	0.829826533	0.376973721	-1.407464
CTBP2P7	2.201284833	0	0	-12.13092	FHIP1A	496.236267	1444.524551	0.343529133	-1.541496	AMYP1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FOXA1	2342.600304	6823.711744	0.34330294	-1.542446	PPIAP55	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GCNT4	14.10705107	41.11339106	0.343125456	-1.543192	PHF10P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PRKG2	70.53525534	205.5669553	0.343125456	-1.543192	HECW2-AS1	2.201284833	0.829826533	0.376973721	-1.407464
RPL10P15	2.201284833	0	0	-12.13092	PLCB2	74.684388	217.7898554	0.342919499	-1.544058	ATP5PDP2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DENND1A	791.6545128	2309.016936	0.342853489	-1.544336	LRRC3-DT	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	APRT	120.3248473	351.1305831	0.342678346	-1.545073	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LCN6	2.201284833	0	0	-12.13092	TXNRD3	202.4776741	591.1438931	0.342518423	-1.545747	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF467	50.61941854	147.7859733	0.342518423	-1.545747	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPS14	372.5921135	1087.838104	0.342506952	-1.545795	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HGFAC	9.128091867	26.66814555	0.342284463	-1.546732	CT70	2.201284833	0.829826533	0.376973721	-1.407464
EIF4A2P1	2.201284833	0	0	-12.13092	IHO1	9.128091867	26.66814555	0.342284463	-1.546732	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464

ENSG000002	2.201284833	0	0	-12.13092	RNF133	9.128091867	26.66814555	0.342284463	-1.546732	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GPRC5B	72.1949084	211.122819	0.341956918	-1.548114	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CLCN2	165.9653067	485.5824836	0.341786025	-1.548835	CCDC192	2.201284833	0.829826533	0.376973721	-1.407464
SMCO4P1	2.201284833	0	0	-12.13092	MYL5	22.4053164	65.55919115	0.34175706	-1.548957	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LIMD1	165.1354801	483.3601382	0.341640667	-1.549448	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGAP30	88.79143907	260.0144192	0.341486597	-1.550099	PLSCR5	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GBP2	141.9003372	415.5786016	0.341452463	-1.550243	LARP1BP1	2.201284833	0.829826533	0.376973721	-1.407464
MTCO2P2	2.201284833	0	0	-12.13092	MBLAC2	26.55444907	77.7820912	0.341395412	-1.550484	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ZSCAN5A-A	2.201284833	0	0	-12.13092	ADGRF5P1	13.27722453	38.8910456	0.341395412	-1.550484	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ICAM4-AS1	2.201284833	0	0	-12.13092	FAM98C	105.3879697	308.9060193	0.341165154	-1.551458	LINC01354	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ACAP3	126.9634596	372.242865	0.341076946	-1.551831	COX7BP6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C1QTNF1	48.12993894	141.1189369	0.341059393	-1.551905	MCTS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RRP12	186.71097	547.8081566	0.340832767	-1.552864	RPS3AP25	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EGFR	273.0129295	801.1555394	0.34077394	-1.553113	RAD17P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MSANTD2	64.7264696	190.0105371	0.340646738	-1.553652	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADD1	1106.158769	3247.957894	0.340570538	-1.553974	FAM131C2P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HSPA2	293.7585928	863.3812123	0.340242049	-1.555367	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HERPUD1	540.2170732	1588.977006	0.339977905	-1.556487	PPP4R2P5	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PLAGL1	105.3879697	310.0171921	0.33994234	-1.556638	GSTO3P	2.201284833	0.829826533	0.376973721	-1.407464
NFILZ	2.201284833	0	0	-12.13092	TMEM259	726.9280432	2140.118681	0.339667164	-1.557806	LINC01271	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	COL6A5	16.59653067	48.89160018	0.339455665	-1.558705	CTAGE7P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OR1J2	16.59653067	48.89160018	0.339455665	-1.558705	MIPEPP3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC39A12	8.298265334	24.44580009	0.339455665	-1.558705	ERP29P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FBXW12	8.298265334	24.44580009	0.339455665	-1.558705	TRIM49D2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM42	8.298265334	24.44580009	0.339455665	-1.558705	CBX3P10	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RASA4B	8.298265334	24.44580009	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CST4	4.149132667	12.22290005	0.339455665	-1.558705	NAP1L4P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CACNG1	4.149132667	12.22290005	0.339455665	-1.558705	ST13P18	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AKR1D1	4.149132667	12.22290005	0.339455665	-1.558705	MRPS10P2	2.201284833	0.829826533	0.376973721	-1.407464
CSAG3	2.201284833	0	0	-12.13092	HHLA1	4.149132667	12.22290005	0.339455665	-1.558705	ANKRD11P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DPEP3	4.149132667	12.22290005	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
CT45A1	2.201284833	0	0	-12.13092	FAM217A	4.149132667	12.22290005	0.339455665	-1.558705	CHL1-AS1	2.201284833	0.829826533	0.376973721	-1.407464
LINC01711	2.201284833	0	0	-12.13092	SLC2A2	4.149132667	12.22290005	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPL10L	4.149132667	12.22290005	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
SF1-DT	2.201284833	0	0	-12.13092	LDHAL6A	4.149132667	12.22290005	0.339455665	-1.558705	TATDN2P3	2.201284833	0.829826533	0.376973721	-1.407464
LINC01082	2.201284833	0	0	-12.13092	CCBE1	4.149132667	12.22290005	0.339455665	-1.558705	ANAPC1P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IDO2	4.149132667	12.22290005	0.339455665	-1.558705	LDHAP3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BNIP3P1	4.149132667	12.22290005	0.339455665	-1.558705	CDC42EP3-A	2.201284833	0.829826533	0.376973721	-1.407464
SPIB	2.201284833	0	0	-12.13092	PTPN20	4.149132667	12.22290005	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NELFE	4.149132667	12.22290005	0.339455665	-1.558705	MRGPRG-AS	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KRT25	4.149132667	12.22290005	0.339455665	-1.558705	PSMC1P10	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LRRC37A6P	4.149132667	12.22290005	0.339455665	-1.558705	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RPL21P46	4.149132667	12.22290005	0.339455665	-1.558705	EDRF1-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	12.22290005	0.339455665	-1.558705	MEIOSIN	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ITGA11	149.368776	441.1355744	0.338600613	-1.562344	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DPH2	103.7283167	306.6836739	0.338225753	-1.563942	HMGB3P5	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ANKS3	146.8792964	434.468538	0.338066588	-1.564621	LINC02631	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IRAG1	31.53340827	93.33850944	0.33783921	-1.565591	PHKA2-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ANXA6	298.737552	884.4934942	0.337749858	-1.565973	PRKCQ-AS1	2.201284833	0.829826533	0.376973721	-1.407464
PPP2CA-DT	2.201284833	0	0	-12.13092	BTN3A1	109.5371024	324.4623476	0.337595634	-1.566632	RNF14P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LCK	11.61757147	34.44635467	0.337265629	-1.568043	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
PPIAL4H	2.201284833	0	0	-12.13092	SQOR	34.8527144	103.339064	0.337265629	-1.568043	RN7SL587P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MYH1	19.08601027	56.6698093	0.336793268	-1.570065	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	UCN	19.08601027	56.6698093	0.336793268	-1.570065	RPL21P4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ALKBH7	171.7740924	510.0282837	0.336793268	-1.570065	OR14A2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HPS1	34.02288787	101.1167186	0.33647144	-1.571444	CBLL1-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CALHM5	14.9368776	44.44690926	0.336061109	-1.573205	MTND4P16	2.201284833	0.829826533	0.376973721	-1.407464
MICOS10P2	2.201284833	0	0	-12.13092	SCN10A	7.4684388	22.22345463	0.336061109	-1.573205	RN7SL517P	2.201284833	0.829826533	0.376973721	-1.407464
FBXW7-AS1	2.201284833	0	0	-12.13092	HBD	7.4684388	22.22345463	0.336061109	-1.573205	RN7SL655P	2.201284833	0.829826533	0.376973721	-1.407464
CHCHD2P11	2.201284833	0	0	-12.13092	SLC6A8	241.4795212	718.9287572	0.335887971	-1.573948	ATP5MC1P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC1A3	196.6688884	585.5880295	0.335848546	-1.574117	BGLAP	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GPR155	166.7951332	496.694211	0.335810504	-1.574281	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MAP2K5-DT	2.201284833	0	0	-12.13092	GRAMD1A	321.1428684	956.7197218	0.335670794	-1.574881	CFAP20DC-/	2.201284833	0.829826533	0.376973721	-1.407464
RNPC3P1	2.201284833	0	0	-12.13092	RECQL5	305.3761643	910.050467	0.335559593	-1.575359	DCAF13P1	2.201284833	0.829826533	0.376973721	-1.407464
SCML2P2	2.201284833	0	0	-12.13092	TBL2	110.3669289	328.9071285	0.335556512	-1.575372	GNG10	2.201284833	0.829826533	0.376973721	-1.407464
COX5AP1	2.201284833	0	0	-12.13092	BICD1	422.3817055	1258.958705	0.335500842	-1.575612	RN7SL581P	2.201284833	0.829826533	0.376973721	-1.407464
UNC5C-AS1	2.201284833	0	0	-12.13092	DPEP2	18.25618373	54.44746384	0.335299065	-1.57648	RPS26P21	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MFAP5	18.25618373	54.44746384	0.335299065	-1.57648	RN7SL812P	2.201284833	0.829826533	0.376973721	-1.407464
PRKACB-DT	2.201284833	0	0	-12.13092	RPS6KA2	517.8117568	1544.530097	0.335255207	-1.576668	RN7SL239P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	EML5	1146.820269	3421.30084	0.335200066	-1.576906	PTPRVP	2.201284833	0.829826533	0.376973721	-1.407464
ATP2B1-AS1	2.201284833	0	0	-12.13092	ADAT2	39.8316736	118.8954823	0.335014189	-1.577706	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	VWA2	119.4950208	356.6864468	0.335014189	-1.577706	RN7SL834P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MAF	369.2728073	1102.28335	0.335007154	-1.577736	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02343	2.201284833	0	0	-12.13092	SLC49A3	10.78774493	32.22400921	0.334773518	-1.578743	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC01215	2.201284833	0	0	-12.13092	ZNF648	10.78774493	32.22400921	0.334773518	-1.578743	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	YJU2B	157.6670413	471.1372381	0.334652047	-1.579266	DEPTOR-AS	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGEF17	887.0845642	2651.258137	0.334590039	-1.579534	ALDH1L1-AS	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM229B	24.894796	74.44857301	0.334389163	-1.5804	LINC00968	2.201284833	0.829826533	0.376973721	-1.407464
TTC32-DT	2.201284833	0	0	-12.13092	ZFP36L1	1020.686636	3052.391493	0.334389163	-1.5804	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PRKCD	411.5939605	1231.179386	0.334308684	-1.580747	MTCYBP44	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ROR2	234.0110824	700.0388208	0.334283008	-1.580858	LINC02064	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PLGRKT	109.5371024	327.7959558	0.334162458	-1.581378	GLDCP1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SCAP	578.3890938	1731.207116	0.334095839	-1.581666	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
POU2F1-DT	2.201284833	0	0	-12.13092	SLC6A9	31.53340827	94.44968217	0.333864631	-1.582665	LINC00939	2.201284833	0.829826533	0.376973721	-1.407464
U7	2.201284833	0	0	-12.13092	OXLD1	48.95976547	146.6748005	0.333798071	-1.582952	IFNAR2-IL10	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MYH6	17.4263572	52.22511838	0.333677697	-1.583473	PPP4R2P4	2.201284833	0.829826533	0.376973721	-1.407464
ILRUN-AS1	2.201284833	0	0	-12.13092	RBKS	38.17202053	114.4507913	0.33352343	-1.58414	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GYG2	44.8106328	134.4519005	0.333283744	-1.585177	RACK1P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADAMTS17	72.1949084	216.6786826	0.333188791	-1.585588	LINC02223	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SIGLEC9	24.06496947	72.22622754	0.333188791	-1.585588	TRGV7	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SALL4	27.3842756	82.22678213	0.333033531	-1.586261	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PRRT3	191.6899292	575.5874749	0.333033531	-1.586261	LINC01182	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RAB11FIP5	102.0686636	306.6836739	0.332814141	-1.587211	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC01023	2.201284833	0	0	-12.13092	CPLANE1	3610.575247	10863.9358	0.332345046	-1.589246	SLC25A15P3	2.201284833	0.829826533	0.376973721	-1.407464
PPP4R3B-DT	2.201284833	0	0	-12.13092	EVA1C	87.131786	262.2367646	0.332263808	-1.589599	LINC02236	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KLK10	6.638612267	20.00110917	0.331912206	-1.591126	RASGRF2-AS	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OR51F2	6.638612267	20.00110917	0.331912206	-1.591126	NRBF2P6	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CAPN6	3.319306133	10.00055458	0.331912206	-1.591126	PCDHA12	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	F11	3.319306133	10.00055458	0.331912206	-1.591126	RNA5SP288	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NEFM	3.319306133	10.00055458	0.331912206	-1.591126	Vault	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SERPINC1	3.319306133	10.00055458	0.331912206	-1.591126	NRBF2P4	2.201284833	0.829826533	0.376973721	-1.407464

OR5AL1	2.201284833	0	0	-12.13092	VSX2	3.319306133	10.00055458	0.331912206	-1.591126	LINC01847	2.201284833	0.829826533	0.376973721	-1.407464
ARHGEF2-AS	2.201284833	0	0	-12.13092	ANKRD1	3.319306133	10.00055458	0.331912206	-1.591126	LINC01605.1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GNGT2	3.319306133	10.00055458	0.331912206	-1.591126	TARDBPP4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FABP6	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NLRP6	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
CDC37L1-DT	2.201284833	0	0	-12.13092	PRR23B	3.319306133	10.00055458	0.331912206	-1.591126	CD8B2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C2orf80	3.319306133	10.00055458	0.331912206	-1.591126	CRYZL2P-SE	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TRAV2	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	3.319306133	10.00055458	0.331912206	-1.591126	BTF3P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LRP2BP-AS1	3.319306133	10.00055458	0.331912206	-1.591126	CCDC166	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CA3-AS1	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	OR2L8	3.319306133	10.00055458	0.331912206	-1.591126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HSPA7	46.47028587	140.0077642	0.331912206	-1.591126	LINC02700	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GLUD2	9.9579184	30.00166375	0.331912206	-1.591126	IFNG-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CACHD1	248.1181335	748.930421	0.331296642	-1.593805	KLRC4-KLRI	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GNPTG	297.0778989	896.7163943	0.331295269	-1.59381	TIFAB	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LPAR1	126.9634596	383.3545923	0.331190658	-1.594266	KDM4F	2.201284833	0.829826533	0.376973721	-1.407464
U1	2.201284833	0	0	-12.13092	JOSD2	35.68254093	107.7837549	0.331056762	-1.594849	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SP110	260.5655315	787.8214666	0.330741853	-1.596222	CBX3P4	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	STYXL1	89.6212656	271.1261465	0.33055191	-1.597051	C12orf71BP	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KBTBD3	44.8106328	135.5630732	0.33055191	-1.597051	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	THBS3	273.842756	828.9348577	0.330354977	-1.597911	MRGPRF-AS	2.201284833	0.829826533	0.376973721	-1.407464
MIR8066	2.201284833	0	0	-12.13092	SERTAD1	38.17202053	115.5619641	0.330316474	-1.598079	AK6P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SPSB2	50.61941854	153.3418369	0.330108335	-1.598989	PDE2A-AS2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ANKH	728.5876963	2207.900217	0.329991224	-1.5995	PDE3A-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PLEKHS1	47.3001124	143.3412824	0.329982484	-1.599539	C11orf97	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	WDFY4	78.83352067	238.9021373	0.329982484	-1.599539	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NBPF10	116.1757147	352.2417559	0.329818123	-1.600257	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TXNIP	2514.374396	7629.311974	0.329567647	-1.601353	QRSL1P3	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GADD45B	37.342194	113.3396186	0.329471675	-1.601774	LINC02457	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADRA2C	62.23699	188.8993643	0.329471675	-1.601774	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02371	2.201284833	0	0	-12.13092	WWP2	432.3396239	1312.294996	0.329453077	-1.601855	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
KRTAP7-1	2.201284833	0	0	-12.13092	ATXN7L2	58.91768387	178.8988098	0.329335248	-1.602371	MIR493HG	2.201284833	0.829826533	0.376973721	-1.407464
FSIP2LP	2.201284833	0	0	-12.13092	BMP6	55.59837774	168.8982552	0.329182665	-1.60304	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM254	129.4529392	393.3551469	0.329099391	-1.603405	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IVD	138.5810311	421.1344652	0.329065993	-1.603551	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02826	2.201284833	0	0	-12.13092	LPCAT3	324.4621745	986.7213855	0.328828562	-1.604592	LINC02328	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADAMTSL1	67.2159492	204.4557826	0.328755432	-1.604913	PPP1R13B-D	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PCBP4	85.47213294	260.0144192	0.328720743	-1.605066	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	COG7	483.788869	1472.303869	0.328593084	-1.605626	LINC00517	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PTPN5	9.128091867	27.77931829	0.328593084	-1.605626	ACTG1P17	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IRX4	9.128091867	27.77931829	0.328593084	-1.605626	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADGRG7	9.128091867	27.77931829	0.328593084	-1.605626	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IFITM3	343.5481848	1045.61354	0.328561339	-1.605765	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC03082	2.201284833	0	0	-12.13092	OVGP1	42.3211532	128.8960368	0.328335566	-1.606757	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GOLIM4	1053.049871	3209.066848	0.328148312	-1.60758	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GRID2IP	24.06496947	73.33740027	0.328140476	-1.607615	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ITPKB	387.5289911	1181.176614	0.328087254	-1.607849	CZIB-DT	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DEF6	53.93872467	164.4535643	0.327987568	-1.608287	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MIR6133	2.201284833	0	0	-12.13092	FGD5	113.6862351	346.6858922	0.327922877	-1.608572	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DHRS7	1155.118534	3527.973422	0.327417017	-1.610799	SMG1-DT	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CAPN10	183.3916639	561.1422294	0.326818504	-1.613438	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MYO1A	11.61757147	35.55752741	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
CDRT15P6	2.201284833	0	0	-12.13092	ARPP21	11.61757147	35.55752741	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PROKR2	5.808785734	17.7787637	0.326726078	-1.613846	LINC02188	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HAAO	5.808785734	17.7787637	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CLEC3B	5.808785734	17.7787637	0.326726078	-1.613846	GOLGA6L7	2.201284833	0.829826533	0.376973721	-1.407464
ANKRD20A2	2.201284833	0	0	-12.13092	DMRT2	5.808785734	17.7787637	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	YES1P1	5.808785734	17.7787637	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	5.808785734	17.7787637	0.326726078	-1.613846	MYMX	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	5.808785734	17.7787637	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
CT47C1	2.201284833	0	0	-12.13092	SYDE1	52.2790716	160.0088733	0.326726078	-1.613846	LINC01977	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GBGT1	17.4263572	53.33629111	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PDE4DIPP2	17.4263572	53.33629111	0.326726078	-1.613846	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HDAC5	516.1521038	1580.087624	0.326660431	-1.614136	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MROH1	960.1092991	2940.163047	0.326549679	-1.614626	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NOTCH3	1306.146964	4000.221833	0.326518633	-1.614763	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC22A23	338.5692256	1037.835331	0.326226344	-1.616055	ALOX12P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FES	71.36508187	218.9010281	0.326015289	-1.616988	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CLBA1	111.1967555	341.1300286	0.325965896	-1.617207	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BICC1	504.5345323	1547.863615	0.325955418	-1.617253	MIR4728	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SASH3	19.9158368	61.11450023	0.325877439	-1.617599	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TSPAN4	93.77039827	287.7937374	0.325825013	-1.617831	MIR3682	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	IQSEC1	1471.282444	4515.805981	0.325807276	-1.617909	LINC01970	2.201284833	0.829826533	0.376973721	-1.407464
MIR6080	2.201284833	0	0	-12.13092	COL6A2	3212.258511	9861.657992	0.325732094	-1.618242	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNPEPL1	311.18495	955.608549	0.325640609	-1.618647	MIR4427	2.201284833	0.829826533	0.376973721	-1.407464
TRAJ37	2.201284833	0	0	-12.13092	TFAP2E	14.10705107	43.33573653	0.325529279	-1.619141	NOS2P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LAMB2	589.1768387	1810.10038	0.325494014	-1.619297	MIR3611	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF469	87.131786	267.7926283	0.325370368	-1.619845	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SHFL	103.7283167	318.9065739	0.325262397	-1.620324	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BST1	22.4053164	68.89270935	0.325220428	-1.62051	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DNAJA4	22.4053164	68.89270935	0.325220428	-1.62051	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	QPCTL	94.6002248	291.1272556	0.324944583	-1.621734	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CRAT	341.0587052	1050.058231	0.324799802	-1.622377	RPL10P15	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	P2RY14	24.894796	76.67091847	0.324696723	-1.622835	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RGR	8.298265334	25.55697282	0.324696723	-1.622835	SMCO4P1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ASTL	8.298265334	25.55697282	0.324696723	-1.622835	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CLTCL1	311.18495	960.05324	0.324133014	-1.625342	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZC3H11C	19.08601027	58.89215477	0.324084088	-1.62556	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NUTM2D	19.08601027	58.89215477	0.324084088	-1.62556	MTCO2P2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ADGRD1	97.91953094	302.238983	0.323980481	-1.626021	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CTTN	62.23699	192.2328825	0.323758293	-1.627011	ZNF725P	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NPTN	770.9088495	2381.243163	0.323742179	-1.627083	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SNX21	97.0897044	300.0166375	0.323614401	-1.627652	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KRBA1	78.00369414	241.1244827	0.323499685	-1.628164	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	WDR59	356.8254093	1103.394522	0.323388781	-1.628658	CT45A1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AGAP13P	34.8527144	107.7837549	0.323357768	-1.628797	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	C1orf159	61.40716347	190.0105371	0.323177674	-1.629601	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TNFRSF21	544.3662059	1684.537861	0.323154628	-1.629703	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464

ENSG000002	2.201284833	0	0	-12.13092	PLD1	452.2554607	1400.077642	0.323021701	-1.630297	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PREX1	369.2728073	1143.396741	0.322961221	-1.630567	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SDK1	715.3104718	2215.678426	0.322840383	-1.631107	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DUS3L	102.8984901	318.9065739	0.322660298	-1.631912	PPIAL4H	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ALDH1A3	63.06681654	195.5664007	0.322482882	-1.632706	MICOS10P2	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CBARP	47.3001124	146.6748005	0.322482882	-1.632706	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ME1	136.0915515	422.2456379	0.322304221	-1.633505	UNC5C-AS1	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	VPS53	86.30195947	267.7926283	0.322271603	-1.633651	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARHGEF25	36.51236747	113.3396186	0.322150082	-1.634195	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC9A9	57.2580308	177.787637	0.322058562	-1.634605	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MYO7A	195.0092353	605.5891386	0.322015741	-1.634797	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SPEF2	181.7320108	564.4757476	0.321948306	-1.635099	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SYNE4	46.47028587	144.4524551	0.321699523	-1.636214	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RHOT2	342.7183583	1065.614649	0.32161566	-1.63659	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KIF21A	1131.053565	3516.861695	0.32160877	-1.636621	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FLRT2	285.4603275	887.8270124	0.321526968	-1.636988	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	UBXN6	521.9608895	1623.423361	0.321518651	-1.637026	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CDHR3	89.6212656	278.9043556	0.321333331	-1.637857	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KLHL21	99.579184	310.0171921	0.321205361	-1.638432	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM135	276.3322356	861.1588669	0.320884155	-1.639876	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
UCKL1-AS1	2.201284833	0	0	-12.13092	GBP3	98.74935747	307.7948466	0.320828495	-1.640126	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RSAD1	106.2177963	331.129474	0.320774213	-1.64037	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DPH1	164.3056536	512.2506292	0.320752468	-1.640468	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PRSS23	424.8711851	1325.629069	0.320505332	-1.64158	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RHOH	24.894796	77.7820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GARIN1A	22.4053164	70.00388208	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ITGA7	87.131786	272.2373192	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DTX2	57.2580308	178.8988098	0.320058199	-1.643594	LINC03082	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CPNE7	14.9368776	46.66925472	0.320058199	-1.643594	SPATA31A7	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PEAK3	7.4684388	23.33462736	0.320058199	-1.643594	PMS2P13	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC9A5	19.9158368	62.22567296	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FREM3	9.9579184	31.11283648	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02342	2.201284833	0	0	-12.13092	THEGL	9.9579184	31.11283648	0.320058199	-1.643594	OR52E5	2.201284833	0.829826533	0.376973721	-1.407464
LINC00836	2.201284833	0	0	-12.13092	GUCY2F	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TNFSF14	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KRT72	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
BLACAT1	2.201284833	0	0	-12.13092	NLRP9	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
PANDAR	2.201284833	0	0	-12.13092	WASF4P	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC00550	2.201284833	0	0	-12.13092	C6orf141	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02246	2.201284833	0	0	-12.13092	CASTOR1	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DND1	4.9789592	15.55641824	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
FAM157D	2.201284833	0	0	-12.13092	ZNF285CP	2.4894796	7.77820912	0.320058199	-1.643594	LINC01202	2.201284833	0.829826533	0.376973721	-1.407464
FRG2EP	2.201284833	0	0	-12.13092	TPSD1	2.4894796	7.77820912	0.320058199	-1.643594	LINC00836	2.201284833	0.829826533	0.376973721	-1.407464
C1orf232	2.201284833	0	0	-12.13092	HNF4A	2.4894796	7.77820912	0.320058199	-1.643594	ARRDC3-AS	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CRTAM	2.4894796	7.77820912	0.320058199	-1.643594	LINC02666	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GFAP	2.4894796	7.77820912	0.320058199	-1.643594	MIR4521	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SLC52A1	2.4894796	7.77820912	0.320058199	-1.643594	HSFX4	2.201284833	0.829826533	0.376973721	-1.407464
MIR4521	2.201284833	0	0	-12.13092	CRP	2.4894796	7.77820912	0.320058199	-1.643594	LINC01226	2.201284833	0.829826533	0.376973721	-1.407464
MIR548D1	2.201284833	0	0	-12.13092	CELF6	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MIR6767	2.201284833	0	0	-12.13092	ZIM3	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GPHA2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
PET100P1	2.201284833	0	0	-12.13092	LEAP2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02452	2.201284833	0	0	-12.13092	ART5	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC01902	2.201284833	0	0	-12.13092	OR2M4	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PXT1	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZPBP2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	KRT77	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AKR1C4	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02767	2.201284833	0	0	-12.13092	OR10R2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TRAV12-2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
MIR205	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RNPC3-DT	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC01226	2.201284833	0	0	-12.13092	CCDC144NL	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AK2P2	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	GLYATL1P4	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ATXN7L3-A	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02795	2.201284833	0	0	-12.13092	TMEM191B	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	LINC02906	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
LINC02478	2.201284833	0	0	-12.13092	ENSG000002	2.4894796	7.77820912	0.320058199	-1.643594	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FGL2	200.8180211	627.8125933	0.319869374	-1.644445	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	STRADB	113.6862351	355.5752741	0.319724805	-1.645097	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MAP3K5	1017.36733	3187.954566	0.319128554	-1.64779	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF335	424.0413586	1328.962587	0.319076972	-1.648024	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BCL9L	401.6360421	1258.958705	0.319022412	-1.64827	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BMP1	441.4677158	1385.632396	0.318603778	-1.650165	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TNFRSF19	151.8582556	476.6931018	0.318566086	-1.650335	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	DHX32	372.5921135	1170.064886	0.318437138	-1.650919	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF704	680.4577574	2137.896335	0.318283794	-1.651614	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PELI3	78.83352067	247.7915191	0.318144547	-1.652246	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HS3ST4	19.08601027	60.0033275	0.318082531	-1.652527	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ICAM1	54.7685512	172.2317734	0.317993307	-1.652932	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TMEM98	125.3038065	394.4663197	0.317654006	-1.654472	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SELENOV	14.10705107	44.44690926	0.317391047	-1.655667	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	14.10705107	44.44690926	0.317391047	-1.655667	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	NUDT18	14.10705107	44.44690926	0.317391047	-1.655667	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RAB7B	14.10705107	44.44690926	0.317391047	-1.655667	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SCRN2	126.9634596	400.0221833	0.317391047	-1.655667	ENSG000002	2.201284833	0.829826533	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TSC2	1625.630179	5124.728637	0.317212929	-1.656477	ENDOD1	922.3383449	347.6973175	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SDF4	719.4596044	2269.014718	0.317080184	-1.65708	LINC00623	39.62312699	14.9368776	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FGFR3	144.3898168	455.5808199	0.31693568	-1.657738	ERN2	19.81156349	7.4684388	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PKD1L1	34.8527144	110.0061004	0.316825288	-1.658241	DAB1	19.81156349	7.4684388	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	FREY1	11.61757147	36.66870014	0.316825288	-1.658241	GAL3ST3	19.81156349	7.4684388	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PRAG1	11.61757147	36.66870014	0.316825288	-1.658241	PPP1R42	19.81156349	7.4684388	0.376973721	-1.407464
NHIP	2.201284833	0	0	-12.13092	KPTN	78.00369414	246.6803464	0.316213656	-1.661028	SCN10A	19.81156349	7.4684388	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CNNM2	180.9021843	572.2539567	0.316122208	-1.661446	ENSG000002	19.81156349	7.4684388	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	MAOB	27.3842756	86.67147305	0.315954888	-1.66221	GHR	127.6745203	48.12993894	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SYCP2L	9.128091867	28.89049102	0.315954888	-1.66221	MSANTD1	26.41541799	9.9579184	0.376973721	-1.407464

ENSG000002	2.201284833	0	0	-12.13092	ZNF540	40.66150013	128.8960368	0.315459661	-1.664473	PARK7P1	26.41541799	9.9579184	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	PIGO	490.4274812	1555.641824	0.315257326	-1.665398	GABRA1	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	HSD17B11	105.3879697	334.4629922	0.315096056	-1.666136	MSLN	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CCDC102A	29.04392867	92.22733671	0.314916702	-1.666958	SERPINA12	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	CAMKK2	394.9974299	1254.514014	0.314860915	-1.667213	RPL12P4	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	RUSF1	314.5042561	998.9442856	0.314836634	-1.667325	HOTAIRM1	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ARL6IP5	149.368776	474.4707563	0.314811343	-1.667441	ENSG000002	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	TTC21A	55.59837774	176.6764643	0.314690346	-1.667995	ENSG000002	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	BNIPL	13.27722453	42.22456379	0.314443143	-1.669129	ENSG000002	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	ZNF831	6.638612267	21.1122819	0.314443143	-1.669129	GTF2IP1	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	SIK1	6.638612267	21.1122819	0.314443143	-1.669129	ENSG000002	13.207709	4.9789592	0.376973721	-1.407464
ENSG000002	2.201284833	0	0	-12.13092	AQP4	6.638612267	21.1122819	0.314443143	-1.669129	GPR160	738.5310613	277.9918887	0.376411912	-1.409616
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	6.638612267	21.1122819	0.314443143	-1.669129	YIPF2	485.3833056	182.5618373	0.376118905	-1.410739
ENSG000002	2.201284833	0	0	-12.13092	NAPA-AS1	6.638612267	21.1122819	0.314443143	-1.669129	INHBA	419.3447606	157.6670413	0.375984288	-1.411256
ENSG000002	2.201284833	0	0	-12.13092	RBPJ	119.4950208	380.0210742	0.314443143	-1.669129	GANC	419.3447606	157.6670413	0.375984288	-1.411256
ENSG000002	2.201284833	0	0	-12.13092	HOOK2	323.632348	1030.057122	0.314188739	-1.670297	NID2	726.4239948	273.0129295	0.375831376	-1.411843
ENSG000002	2.201284833	0	0	-12.13092	SAMD4A	107.8774493	343.352374	0.314188739	-1.670297	TUBA4A	315.8843735	118.6651943	0.375660223	-1.4125
ENSG000002	2.201284833	0	0	-12.13092	ATG16L2	164.3056536	523.3623565	0.313942437	-1.671428	SIPA1	254.2483982	95.43005134	0.3753418	-1.413723
ENSG000002	2.201284833	0	0	-12.13092	CTBP1	795.8036455	2535.696173	0.313840299	-1.671897	SH3BP5-AS1	234.4368347	87.96161254	0.375203891	-1.414253
ENSG000002	2.201284833	0	0	-12.13092	MGAT3	34.8527144	111.1172731	0.313657035	-1.67274	LIAS	183.8072835	68.87560227	0.374716393	-1.416129
ENSG000002	2.201284833	0	0	-12.13092	EFS	17.4263572	55.55863657	0.313657035	-1.67274	PPP1R9A	868.4068665	325.2920011	0.374584787	-1.416636
ENSG000002	2.201284833	0	0	-12.13092	CEP20	17.4263572	55.55863657	0.313657035	-1.67274	SLC25A27	494.1884449	185.0513169	0.374454965	-1.417136
ENSG000002	2.201284833	0	0	-12.13092	MEI1	17.4263572	55.55863657	0.313657035	-1.67274	GRIP1	305.9785917	114.5160616	0.374261679	-1.417881
ENSG000002	2.201284833	0	0	-12.13092	CXCL12	56.42820427	180.0099825	0.313472639	-1.673589	TLR6	139.7815869	52.2790716	0.374005424	-1.418869
ENSG000002	2.201284833	0	0	-12.13092	SPHK2	166.7951332	532.2517384	0.313376399	-1.674032	TTC38	548.1199233	204.9671537	0.373945819	-1.419099
ENSG000002	2.201284833	0	0	-12.13092	SORD	335.2499195	1070.05934	0.313300307	-1.674382	ABCC1	135.3790172	50.61941854	0.373908894	-1.419241
ENSG000002	2.201284833	0	0	-12.13092	GNG7	43.15097974	137.7854187	0.313175227	-1.674958	CBLL1	1573.918655	587.5171856	0.373283069	-1.421658
ENSG000002	2.201284833	0	0	-12.13092	PCSK4	74.684388	238.9021373	0.312614985	-1.677541	PXK	444.6595362	165.9653067	0.373241307	-1.421819
ENSG000002	2.201284833	0	0	-12.13092	SCRIB	164.3056536	525.584702	0.312614985	-1.677541	BIN2	215.7259136	80.49317374	0.37312705	-1.422261
ENSG000002	2.201284833	0	0	-12.13092	CPO	14.9368776	47.78042745	0.312614985	-1.677541	CHD2	6704.012958	2501.097172	0.373074633	-1.422464
ENSG000002	2.201284833	0	0	-12.13092	SULT1A2	14.9368776	47.78042745	0.312614985	-1.677541	SHF	97.95717505	36.51236747	0.372738061	-1.423766
ENSG000002	2.201284833	0	0	-12.13092	PPP1R12C	292.0989397	934.4962671	0.312573683	-1.677732	TYW1B	478.7794511	178.4127047	0.372640689	-1.424143
ENSG000002	2.201284833	0	0	-12.13092	TMEM125	19.08601027	61.11450023	0.312299212	-1.678999	MS4A6A	737.4304189	274.6725825	0.372472542	-1.424794
ENSG000002	2.201284833	0	0	-12.13092	TXNRD2	112.026582	358.9087923	0.312131061	-1.679776	DHCR24	2372.98505	882.105605	0.371728261	-1.42768
ENSG000002	2.201284833	0	0	-12.13092	CCT6B	23.23514293	74.44857301	0.312096552	-1.679936	GAB3	78.14561156	29.04392867	0.371664232	-1.427928
ENSG000002	2.201284833	0	0	-12.13092	TSC22D3	175.0933985	561.1422294	0.312030336	-1.680242	SERINC5	1139.164901	423.211532	0.371510333	-1.428526
ENSG000002	2.201284833	0	0	-12.13092	ARNT2	186.71097	598.9221022	0.311744999	-1.681562	ARFGAP3	1579.421867	586.6873591	0.371457032	-1.428733
ENSG000002	2.201284833	0	0	-12.13092	WLS	462.2133791	1483.415596	0.311587245	-1.682292	TYSND1	147.4860838	54.7685512	0.371347247	-1.429159
ENSG000002	2.201284833	0	0	-12.13092	ZBTB46	129.4529392	415.5786016	0.311500493	-1.682694	HPGD	73.74304189	27.3842756	0.371347247	-1.429159
ENSG000002	2.201284833	0	0	-12.13092	GPR27	68.87560227	221.1233736	0.311480425	-1.682787	F5	729.725922	270.5234499	0.370719255	-1.431601
ENSG000002	2.201284833	0	0	-12.13092	SSH3	210.7759395	676.7041934	0.311474262	-1.682815	NKD1	591.0449776	219.0742048	0.370655725	-1.431848
ENSG000002	2.201284833	0	0	-12.13092	EFHD1	49.789592	160.0088733	0.311167693	-1.684236	MYO9A	4974.903722	1843.874557	0.370635224	-1.431928
ENSG000002	2.201284833	0	0	-12.13092	XYLT1	12.447398	40.00221833	0.311167693	-1.684236	ABLIM3	194.8137077	72.1949084	0.370584335	-1.432126
ENSG000002	2.201284833	0	0	-12.13092	BTNL8	12.447398	40.00221833	0.311167693	-1.684236	CCT6B	62.73661773	23.23514293	0.370360147	-1.432999
ENSG000002	2.201284833	0	0	-12.13092	TMEM200A	12.447398	40.00221833	0.311167693	-1.684236	ABHD11	302.6766645	112.026582	0.370119653	-1.433936
ENSG000002	2.201284833	0	0	-12.13092	RTL1	12.447398	40.00221833	0.311167693	-1.684236	MMP24OS	233.3361923	86.30195947	0.369861009	-1.434945
ENSG000002	2.201284833	0	0	-12.13092	TMCO6	29.04392867	93.33850944	0.311167693	-1.684236	FERMT1	291.6702403	107.8774493	0.369861009	-1.434945
ENSG000002	2.201284833	0	0	-12.13092	NPHS1	16.59653067	53.33629111	0.311167693	-1.684236	SSH3	570.1327716	210.7759395	0.369696236	-1.435588
ENSG000002	2.201284833	0	0	-12.13092	ADAM7	4.149132667	13.33407278	0.311167693	-1.684236	CERCAM	455.6659603	168.4547863	0.369689204	-1.435615
ENSG000002	2.201284833	0	0	-12.13092	TREML2	4.149132667	13.33407278	0.311167693	-1.684236	NFKB2	341.1991491	126.1336331	0.369677455	-1.435661
ENSG000002	2.201284833	0	0	-12.13092	TNS4	4.149132667	13.33407278	0.311167693	-1.684236	STAT2	1637.755915	604.9435428	0.369373444	-1.436848
ENSG000002	2.201284833	0	0	-12.13092	GUCY2D	4.149132667	13.33407278	0.311167693	-1.684236	KICS2	159.5931504	58.91768387	0.369174264	-1.437626
ENSG000002	2.201284833	0	0	-12.13092	LYZL2	4.149132667	13.33407278	0.311167693	-1.684236	PDLIM7	1331.777324	491.2573078	0.368873459	-1.438802
ENSG000002	2.201284833	0	0	-12.13092	KRT4	4.149132667	13.33407278	0.311167693	-1.684236	CAB39	1786.342642	658.8822675	0.368844281	-1.438916
ENSG000002	2.201284833	0	0	-12.13092	ZNF852	4.149132667	13.33407278	0.311167693	-1.684236	ZNF217	6276.9637	2315.216028	0.368843304	-1.43892
ENSG000002	2.201284833	0	0	-12.13092	KCNIP1	4.149132667	13.33407278	0.311167693	-1.684236	SP110	706.6124313	260.5655315	0.36875311	-1.439273
ENSG000002	2.201284833	0	0	-12.13092	TCEAL7	4.149132667	13.33407278	0.311167693	-1.684236	TSPYL1	1260.235567	464.7028587	0.368742853	-1.439313
ENSG000002	2.201284833	0	0	-12.13092	FAM3B	4.149132667	13.33407278	0.311167693	-1.684236	ENSG000002	49.52890873	18.25618373	0.368596527	-1.439886
ENSG000002	2.201284833	0	0	-12.13092	PRR16	4.149132667	13.33407278	0.311167693	-1.684236	ZNF350	1083.032138	399.1465625	0.368545446	-1.440086
ENSG000002	2.201284833	0	0	-12.13092	OR2AK2	4.149132667	13.33407278	0.311167693	-1.684236	GBGT1	47.3276239	17.4263572	0.36820689	-1.441411
ENSG000002	2.201284833	0	0	-12.13092	KRTAP24-1	4.149132667	13.33407278	0.311167693	-1.684236	CYP1B1	1559.610304	574.2399611	0.368194516	-1.44146
ENSG000002	2.201284833	0	0	-12.13092	OR5L2	4.149132667	13.33407278	0.311167693	-1.684236	EHD1	681.2976557	250.6076131	0.367838655	-1.442855
ENSG000002	2.201284833	0	0	-12.13092	DPF3	4.149132667	13.33407278	0.311167693	-1.684236	NISCH	1897.507526	697.8841146	0.367789906	-1.443046
ENSG000002	2.201284833	0	0	-12.13092	ANXA2P2	4.149132667	13.33407278	0.311167693	-1.684236	LRRC41	852.9978726	313.6744296	0.367731784	-1.443274
ENSG000002	2.201284833	0	0	-12.13092	ENSG000002	4.149132667	13.33407278	0.311167693	-1.684236	NUDT9	664.7880194	243.9690008	0.366987662	-1.446197
ENSG000002	2.201284833	0	0	-12.13092	ZNF285DP	4.149132667	13.33407278	0.311167693	-1.684236	REPS2	2261.820165	829.8265334	0.3668844	-1.446603
ENSG000002	2.201284833	0	0	-12.13092	PLPPR4	20.74566333	66.67036389	0.311167693	-1.684236	C17orf67	40.7237694	14.9368776	0.366785242	-1.446993
ENSG000002	2.201284833	0	0	-12.13092	IRF8	20.74566333	66.67036389	0.311167693	-1.684236	GTPBP1	728.6252796	267.2041437	0.36672368	-1.447235
ENSG000002	2.201284833	0	0	-12.13092	GJA5	20.74566333	66.67036389	0.311167693	-1.684236	CMPK1	3148.937953	1154.288708	0.36656445	-1.447861
ENSG000002	2.201284833	0	0	-12.13092	ZNF680	425.7010116	1368.964805	0.310965636	-1.685173	ENG	1389.010729	508.683665	0.366220112	-1.449217
ENSG000002	2.201284833	0	0	-12.13092	JMJD8	502.0450527	1614.533979	0.310953538	-1.685229	ATXN10	2383.991474	872.9775131	0.366183152	-1.449363
ENSG000002	2.201284833	0	0	-12.13092	RBCK1	256.4163988	825.6013395	0.310581375	-1.686957	PYGO1	832.0856667	304.5463377	0.366003586	-1.45007
ENSG000002	2.201284833	0	0	-12.13092	SNCA	73.02473494	235.5686191	0.309993475	-1.68969	SULF1	4033.854456	1476.261403	0.365967939	-1.450211
ENSG000002	2.201284833	0	0	-12.13092	TTN	1612.352954	5201.399556	0.309984445	-1.689732	PIK3R5	149.6873686	54.7685512	0.365886258	-1.450533
ENSG000002	2.201284833	0	0	-12.13092	USP35	101.2388371	326.684783	0.309897621	-1.690136	PDXDC2P-NI	72.64239948	26.55444907	0.365550274	-1.451858
ENSG000002	2.201284833	0	0	-12.13092	PMS2P4	64.7264696	208.9004735	0.309843575	-1.690388	MYH2	36.32119974	13.27722453	0.365550274	-1.451858
ENSG000002	2.201284833	0	0	-12.13092	DALRD3	56.42820427	182.232328	0.309649802	-1.691291	CMAHP	36.32119974	13.27722453	0.365550274	-1.451858
ENSG000002	2.201284833	0	0	-12.13092	GPR146	14.10705107	45.55808199	0.309649802	-1.691291	ZNF839	288.3683131	105.3879697	0.365463073	-1.452202
ENSG000002	2.201284833	0	0	-12.13092	WNT3A	38.17202053	123.3401732	0.309485706	-1.692055	MAN2C1	538.2141416	196.6688884	0.36541011	-1.452412
ENSG000002	2.201284833	0	0	-12.13092	GAS1	48.12993894	155.5641824	0.309389592	-1.692503	RAB3D	747.3362007	273.0129295	0.36531474	-1.452788
ENSG000002	2.201284833	0	0	-12.13092	SLC3A2	549.3451651	1775.654025	0.30937624	-1.692566	EIF3CL	68.23982981	24.894796	0.364813278	-1.45477
ENSG000002	2.201284833	0	0	-12.13092	POMT1	289.6094601	936.7186126	0.309174448	-1.693507	PKDREJ	34.11991491	12.447398	0.364813278	-1.45477
ENSG000002	2.201284833	0	0	-12.13092	OTOF	29.8737552	96.67202764	0.309021709	-1.69422	TXNRD2	307.0792341	112.026582	0.364813278	-1.45477
ENSG000002	2.201284833	0	0	-12.13092	GIMAP2	9.9579184	32.22400921	0.309021709	-1.69422	ST8SIA6	31.91863007	11.61757147	0.363974627	-1.45809
ENSG000002	2.201284833	0	0	-12.13092	CD200R1	9.9579184	32.22400921	0.309021709	-1.69422	UBE2L6	574.5353413	209.1162864	0.363974627	-1.45809
ENSG000002	2.201284833	0	0	-12.13092	HEPHL1	9.9579184	32.22400921	0.309021709	-1.69422	CLEC2B	223.4304105	81.32300027	0.363974627	-1.45809
ENSG000002	2.201284833	0	0	-12.13092	CCDC142	65.55629614	212.2339917	0.308886883	-1.694849	THTPA	61.63597531	22.4053164	0.363510373	-1.459932
ENSG000002	2.201284833	0	0	-12.13092	PIGH	107.0476228	346.6858922	0.308774096	-1.695376	NFKB1	1077.528926	391.6781237	0.363496621	-1.459986
ENSG000002	2.201284833	0	0	-12.13092	DMXL1	2086.183905	6758.152553	0.308691449	-1.695763	SYTL2	2238.706675	813.2300027	0.363258846	-1.46093
ENSG000002	2.201284833	0	0	-12.13092	SH3TC1	80.49317374	261.1255919	0.308254634	-1.697806	ENSG000002	29.71734524	10.78774493	0.363011731	-1.461912
ENSG000002	2.201284833	0	0	-12.13092	MOV10	655.5629614	2126.784608	0.308241351	-1.697868	GYPC	178.3040714	64.7264696	0.363011731	-1.461912
ENSG000002	2.201284833	0	0	-12.13092	FOXO3	448.106328	1455.636278	0.307842237	-1.699737	GJC2	57.23340565	20.74566333	0.362474731	-1.464048
ENSG000002	2.201284833	0	0	-12.13092	PINK1	409.9343075	1332.296105	0.307690089	-1.70045	ENSG000002	139.7815869	50.61941854	0.362132236	-1.465411
ENSG000002	2.201284833	0	0	-12.13092	EHD3	102.8984901	334.4629922	0.307652842	-1.700625	SLA	167.2976473	60.57733694	0.362093179	-1.465567
ENSG000002	2.201284833	0	0	-12.13092	STAB2	29.04392867	94.44968217	0.307506897	-1.701309	PHF11	334.5952946	121.1546739	0.362093179	-1.465567
ENSG000002	2.201284833	0	0	-12.13092	RAB40AL	11.61757147	37.77987287	0.307506897	-1.701309	HELB	362.1113355	131.1125923	0.362078102	-1.465627
ENSG000002	2.201284833	0	0	-12.13092	SLC22A16	5.808785734	18.88993643	0.307506897	-1.701309	TSNAXIP1	27.51606041	9.9579184	0.361894772	-1.466358
ENSG000002	2.201284833	0	0	-12.13092	PKD2L2	5.808785734	18.88993643	0.307506897	-1.701309	TEAD3	550.3212081	199.158368	0.361894772	-1.466358
ENSG000002	2.201284833	0	0	-12.13092	CD2	5.808785734	18.88993643	0.307506897	-1.701309	CTDSPL	681.2976557	246.4584804	0.361748611	-1.466941
ENSG000002	2.201284833	0	0	-12.13092	ALPI	5.808785734	18.88993643	0.307506897	-1.701309	GIMAP4	270.7580344	97.91953094	0.361649586	-1.467336
ENSG000002	2.201284833	0	0	-12.13092	SIGLEC7	5.808785734	18.88993643	0.307506897	-1.701309	N4BP2L1	406.1370516	146.8792964	0.361649586	-1.467336

ENSG000002	2.201284833	0	0	-12.13092	PCP2	5.808785734	18.88993643	0.307506897	-1.701309	SLC40A1	1368.098523	494.5766139	0.361506577	-1.467906
ENSG000002	2.201284833	0	0	-12.13092	TBC1D10C	5.808785734	18.88993643	0.307506897	-1.701309	IFI35	80.34689639	29.04392867	0.36148165	-1.468006
TARP	2.201284833	0	0	-12.13092	TMEM158	5.808785734	18.88993643	0.307506897	-1.701309	TRMT13	401.7344819	145.2196433	0.36148165	-1.468006
ENSG000002	2.201284833	0	0	-12.13092	OR13C5	5.808785734	18.88993643	0.307506897	-1.701309	ACSF2	293.8715252	106.2177963	0.361442968	-1.46816
ENSG000002	2.201284833	0	0	-12.13092	ZFP36	512.8327976	1668.981443	0.307272918	-1.702407	C1D	232.2355498	83.81247987	0.360894273	-1.470352
ENSG000002	2.201284833	0	0	-12.13092	SEPTIN4	78.83352067	256.680901	0.307126554	-1.703095	GASK1A	25.31477557	9.128091867	0.360583559	-1.471594
ENSG000002	2.201284833	0	0	-12.13092	WHRN	260.5655315	848.9359668	0.306931903	-1.704009	CRYZL2P	25.31477557	9.128091867	0.360583559	-1.471594
ENSG000002	2.201284833	0	0	-12.13092	STXBP2	57.2580308	186.6770189	0.30672244	-1.704994	ENSG000002	25.31477557	9.128091867	0.360583559	-1.471594
ENSG000002	2.201284833	0	0	-12.13092	MALRD1	19.08601027	62.22567296	0.30672244	-1.704994	IKBKE	177.203429	63.89664307	0.360583559	-1.471594
ENSG000002	2.201284833	0	0	-12.13092	LGMN	1048.900738	3420.189667	0.306679114	-1.705198	FGGY	352.2055732	126.9634596	0.36048112	-1.472004
ENSG000002	2.201284833	0	0	-12.13092	MAP3K10	104.5581432	341.1300286	0.306505246	-1.706016	TFAP2A	723.1220675	260.5655315	0.360334089	-1.472593
ENSG000002	2.201284833	0	0	-12.13092	MYH2	13.27722453	43.33573653	0.306380498	-1.706604	ZC3H7B	1700.492533	612.4119816	0.360138001	-1.473378
ENSG000002	2.201284833	0	0	-12.13092	NKX2-8	13.27722453	43.33573653	0.306380498	-1.706604	PGM3	1387.910087	499.5555731	0.359933671	-1.474197
FGD5P1.1	2.201284833	0	0	-12.13092	ALOXE3	13.27722453	43.33573653	0.306380498	-1.706604	DDX24	267.4561072	96.25987787	0.359909067	-1.474296
ENSG000002	2.201284833	0	0	-12.13092	ZER1	514.4924507	1681.204343	0.306026125	-1.708273	TBX1	410.5396213	147.7091229	0.359792613	-1.474763
CCNYL2.1	2.201284833	0	0	-12.13092	SCN7A	48.95976547	160.0088733	0.305981565	-1.708483	NR1D1	528.3083598	190.0302761	0.359695758	-1.475151
ENSG000002	2.201284833	0	0	-12.13092	CLIC2	28.21410213	92.22733671	0.305919081	-1.708778	GRK4	71.54175706	25.72462253	0.359574933	-1.475636
ENSG000002	2.201284833	0	0	-12.13092	MMP24OS	86.30195947	282.2378738	0.305777387	-1.709446	PANK4	94.6552478	34.02288787	0.359440059	-1.476177
ZNF286B	2.201284833	0	0	-12.13092	ATG2B	909.4898806	2975.720575	0.305636856	-1.71011	GLB1L3	115.5674537	41.49132667	0.359022591	-1.477853
DSTNP2	2.201284833	0	0	-12.13092	PDF	7.4684388	24.44580009	0.305510099	-1.710708	FAM241A	92.45396297	33.19306133	0.359022591	-1.477853
ENSG000002	2.201284833	0	0	-12.13092	NECTIN2	368.4429808	1206.733586	0.305322554	-1.711594	KCNG1	46.22698148	16.59653067	0.359022591	-1.477853
URAHP	2.201284833	0	0	-12.13092	TM7SF2	169.2846128	554.475193	0.305306017	-1.711672	ROS1	23.11349074	8.298265334	0.359022591	-1.477853
SULT1C5P	2.201284833	0	0	-12.13092	ACOT8	103.7283167	340.0188558	0.305066366	-1.712805	NPY1R	23.11349074	8.298265334	0.359022591	-1.477853
ENSG000002	2.201284833	0	0	-12.13092	SMIM11	16.59653067	54.44746384	0.304817332	-1.713983	OR4M1	23.11349074	8.298265334	0.359022591	-1.477853
ENSG000002	2.201284833	0	0	-12.13092	PLD2	277.9918887	912.2728125	0.304724513	-1.714423	EEF1A1P6	64.93790256	23.23514293	0.357805565	-1.482752
ENSG000002	2.201284833	0	0	-12.13092	FLG-AS1	93.77039827	307.7948466	0.304652269	-1.714765	FMO5	150.788011	53.93872467	0.35771229	-1.483128
ENSG000002	2.201284833	0	0	-12.13092	FAAP20	222.3935109	730.0404846	0.304631751	-1.714862	ABCA1	2135.246288	763.4404107	0.357542085	-1.483815
ENSG000002	2.201284833	0	0	-12.13092	FPGS	258.9058784	850.0471396	0.30457826	-1.715115	TPCN1	722.0214251	258.0760519	0.357435448	-1.484245
ENSG000002	2.201284833	0	0	-12.13092	GSTCD	306.2059908	1005.611322	0.304497358	-1.715498	SLC13A3	211.3233439	75.51421454	0.357339673	-1.484632
ENSG000002	2.201284833	0	0	-12.13092	CDC42BPG	234.0110824	768.9315302	0.304332796	-1.716278	SLC12A2	2459.9358	878.7862988	0.357239526	-1.485036
ENSG000002	2.201284833	0	0	-12.13092	UGDH	648.9243491	2132.340472	0.304324923	-1.716316	IGFBP4	1047.81158	374.2517665	0.357174681	-1.485298
RHOXF1P1	2.201284833	0	0	-12.13092	COL9A1	9.128091867	30.00166375	0.304252856	-1.716657	CLEC7A	230.034265	82.1528268	0.357132998	-1.485467
ENSG000002	2.201284833	0	0	-12.13092	APLN	9.128091867	30.00166375	0.304252856	-1.716657	MYO3A	20.91220591	7.4684388	0.357132998	-1.485467
ENSG000002	2.201284833	0	0	-12.13092	RBMS2P1	9.128091867	30.00166375	0.304252856	-1.716657	ANO3	20.91220591	7.4684388	0.357132998	-1.485467
ENSG000002	2.201284833	0	0	-12.13092	DM1-AS	9.128091867	30.00166375	0.304252856	-1.716657	ZC3H12D	20.91220591	7.4684388	0.357132998	-1.485467
TNMD	1.100642416	0	0	-12.13092	IKBKB	721.949084	2374.576127	0.304032823	-1.717701	ENSG000002	20.91220591	7.4684388	0.357132998	-1.485467
YBX2	1.100642416	0	0	-12.13092	GPR160	277.9918887	914.495158	0.303983992	-1.717933	TRIM21	248.7451861	88.79143907	0.356957417	-1.486176
C2orf83	1.100642416	0	0	-12.13092	PXN	481.2993894	1583.421142	0.303961704	-1.718039	COG3	1167.781604	416.5729197	0.356721598	-1.48713
CYP2W1	1.100642416	0	0	-12.13092	PPP2R1A	1041.432299	3430.190222	0.30360774	-1.71972	SRPX	102.3597447	36.51236747	0.356706316	-1.487191
BCAP29	1.100642416	0	0	-12.13092	TRIM62	229.0321232	754.4862846	0.303560353	-1.719945	ARHGEF25	102.3597447	36.51236747	0.356706316	-1.487191
CFHR2	1.100642416	0	0	-12.13092	TPM2	117.0055412	385.5769378	0.303455756	-1.720442	ERN1	742.933631	264.7146641	0.356309976	-1.488795
ASAP3	1.100642416	0	0	-12.13092	SYNE1	1756.742771	5791.432276	0.303334769	-1.721017	MAMDC2	79.24625397	28.21410213	0.356030736	-1.489926
ENSG000000	1.100642416	0	0	-12.13092	NR1H2	342.7183583	1130.062668	0.303273764	-1.721307	TGFB3	527.2077174	187.5407965	0.35572468	-1.491167
SEL1L2	1.100642416	0	0	-12.13092	PDZD2	264.7146641	873.3817669	0.303091585	-1.722174	NETO1	58.33404806	20.74566333	0.355635585	-1.491528
OXT	1.100642416	0	0	-12.13092	NAIP	12.447398	41.11339106	0.302757756	-1.723764	SATB1	1389.010729	493.7467874	0.355466504	-1.492214
ASIP	1.100642416	0	0	-12.13092	TMEM120A	62.23699	205.5669553	0.302757756	-1.723764	CAV1	247.6445437	87.96161254	0.355193017	-1.493325
GLRA2	1.100642416	0	0	-12.13092	ABCA10	63.89664307	211.122819	0.302651525	-1.72427	SLC12A8	151.8886534	53.93872467	0.355120172	-1.493621
RRN3P2	1.100642416	0	0	-12.13092	MANBA	783.3562475	2589.032464	0.302567178	-1.724673	CDH1	3907.280578	1387.469964	0.355098626	-1.493708
SIGLEC5	1.100642416	0	0	-12.13092	ZFP36L2	749.3333596	2476.804018	0.302540433	-1.7248	OSBPL10	582.2398382	206.6268068	0.354882633	-1.494586
TFPT	1.100642416	0	0	-12.13092	FGGY	126.9634596	420.0232925	0.302277188	-1.726056	DNAI4	580.0385534	205.7969803	0.354798796	-1.494927
PPP1R17	1.100642416	0	0	-12.13092	MAST2	1306.97679	4324.684271	0.302213227	-1.726361	ENSG000002	130.9764475	46.47028587	0.354798796	-1.494927
TLX1	1.100642416	0	0	-12.13092	LAMC3	73.85456147	244.4580009	0.302115542	-1.726828	NPIPA5	74.84368431	26.55444907	0.354798796	-1.494927
CYP2C18	1.100642416	0	0	-12.13092	MATN2	223.2233375	740.0410391	0.301636431	-1.729117	POLR3E	18.71092108	6.638612267	0.354798796	-1.494927
PTGES3L-AA	1.100642416	0	0	-12.13092	GRIK4	19.08601027	63.33684569	0.301341345	-1.730529	CASQ2	18.71092108	6.638612267	0.354798796	-1.494927
FGF6	1.100642416	0	0	-12.13092	BEST1	19.08601027	63.33684569	0.301341345	-1.730529	ENAM	18.71092108	6.638612267	0.354798796	-1.494927
DUSP16	1.100642416	0	0	-12.13092	HLA-C	450.5958076	1495.638497	0.301273208	-1.730856	CD1E	18.71092108	6.638612267	0.354798796	-1.494927
CCR6	1.100642416	0	0	-12.13092	FAM174C	131.1125923	435.5797107	0.301007115	-1.732131	SLC9C2	18.71092108	6.638612267	0.354798796	-1.494927
PCDHB5	1.100642416	0	0	-12.13092	RHBDL3	22.4053164	74.44857301	0.300950247	-1.732403	SNORD100	18.71092108	6.638612267	0.354798796	-1.494927
RBP2	1.100642416	0	0	-12.13092	GLMP	249.7777865	830.0460304	0.300920404	-1.732546	PRRX1	533.8115719	189.2004496	0.354433024	-1.496415
ABHD14A-A	1.100642416	0	0	-12.13092	HYI	51.44924507	171.1206006	0.300660732	-1.733792	ICAM3	182.7066411	64.7264696	0.35426446	-1.497101
EVA1A	1.100642416	0	0	-12.13092	NUDT16L1	54.7685512	182.232328	0.300542455	-1.734359	PRR5L	53.9314784	19.08601027	0.353893697	-1.498612
RPS25	1.100642416	0	0	-12.13092	MBD6	436.4887566	1453.413933	0.300319645	-1.735429	DOCK5	1955.841574	692.0753288	0.353850403	-1.498789
C10orf95	1.100642416	0	0	-12.13092	PHLDB3	127.7932861	425.5791561	0.300280886	-1.735615	TNFRSF10D	70.44111464	24.894796	0.353412863	-1.500574
PCDHB8	1.100642416	0	0	-12.13092	TEAD3	199.158368	663.3701207	0.300222096	-1.735898	XYLT1	35.22055732	12.447398	0.353412863	-1.500574
SEC16B	1.100642416	0	0	-12.13092	CD14	233.1812559	776.7097393	0.300216727	-1.735924	EEF1A1P13	35.22055732	12.447398	0.353412863	-1.500574
SPART-AS1	1.100642416	0	0	-12.13092	TENM1	34.02288787	113.3396186	0.300185304	-1.736075	ELOVL1	298.2740948	105.3879697	0.353325923	-1.500928
PRAMEF2	1.100642416	0	0	-12.13092	DOC2A	47.3001124	157.7865279	0.29977282	-1.738059	IFIH1	613.0578259	216.5847252	0.353285964	-1.501092
MND1	1.100642416	0	0	-12.13092	LAMA2	1673.760118	5593.64353	0.299225381	-1.740696	C1orf115	190.411138	67.2159492	0.353004293	-1.502242
ARL4AP1	1.100642416	0	0	-12.13092	ACSS1	214.0952456	715.595239	0.299184838	-1.740891	FMO1	51.73019357	18.25618373	0.352911568	-1.502621
SERPINA7	1.100642416	0	0	-12.13092	GTF2H1	11.61757147	38.8910456	0.298720985	-1.74313	PDGFA	223.4304105	78.83352067	0.352832546	-1.502944
CST8	1.100642416	0	0	-12.13092	FBXO2	9.9579184	33.33518194	0.298720985	-1.74313	TNFRSF1A	719.8201403	253.9269192	0.352764399	-1.503223
CSTL1	1.100642416	0	0	-12.13092	SORCS3	4.9789592	16.66759097	0.298720985	-1.74313	FGD3	287.2676707	101.2388371	0.352419877	-1.504633
CST11	1.100642416	0	0	-12.13092	HKDC1	4.9789592	16.66759097	0.298720985	-1.74313	MPEG1	621.8629652	219.0742048	0.352286946	-1.505177
GPR42	1.100642416	0	0	-12.13092	HTR1A	4.9789592	16.66759097	0.298720985	-1.74313	NT5E	214.6252712	75.51421454	0.351842139	-1.507
RIPK3	1.100642416	0	0	-12.13092	OR5D14	4.9789592	16.66759097	0.298720985	-1.74313	ENSG000002	33.01927249	11.61757147	0.351842139	-1.507
CDX4	1.100642416	0	0	-12.13092	IGFL4	4.9789592	16.66759097	0.298720985	-1.74313	CAMK1G	16.50963624	5.808785734	0.351842139	-1.507
PODNL1	1.100642416	0	0	-12.13092	TADA2B	149.368776	500.0277291	0.298720985	-1.74313	GCKR	16.50963624	5.808785734	0.351842139	-1.507
LINC00470	1.100642416	0	0	-12.13092	KIF12	26.55444907	88.89381852	0.298720985	-1.74313	MEP1A	16.50963624	5.808785734	0.351842139	-1.507
CCNA1	1.100642416	0	0	-12.13092	LRRC43	14.9368776	50.00277291	0.298720985	-1.74313	TSLP	16.50963624	5.808785734	0.351842139	-1.507
STOML3	1.100642416	0	0	-12.13092	CR1L	14.9368776	50.00277291	0.298720985	-1.74313	SLC17A8	16.50963624	5.808785734	0.351842139	-1.507
GNG5B	1.100642416	0	0	-12.13092	XKR9	14.9368776	50.00277291	0.298720985	-1.74313	REST	1373.601736	482.9590424	0.351600489	-1.507991
LGALS12	1.100642416	0	0	-12.13092	CFTR	13.27722453	44.44690926	0.298720985	-1.74313	SYNGR2	882.7152179	310.3551235	0.35159145	-1.508028
CFHR4	1.100642416	0	0	-12.13092	C10orf90	6.638612267	22.22345463	0.298720985	-1.74313	ZNF652	3890.770942	1367.554127	0.351486671	-1.508458
CFHR5	1.100642416	0	0	-12.13092	TMC8	6.638612267	22.22345463	0.298720985	-1.74313	RBM43	193.7130653	68.04577574	0.351270967	-1.509344
RAX	1.100642416	0	0	-12.13092	GLYATL3	6.638612267	22.22345463	0.298720985	-1.74313	IFITM2	817.7773153	287.1199805	0.351098001	-1.510054
GJA10	1.100642416	0	0	-12.13092	ATP6V1E1P	6.638612267	22.22345463	0.298720985	-1.74313	NPHP3	111.164884	39.00184707	0.350846829	-1.511087
TAAR5	1.100642416	0	0	-12.13092	GPR50	3.319306133	11.11172731	0.298720985	-1.74313	CSF1R	1012.591023	355.1657563	0.350749462	-1.511487
IL36G	1.100642416	0	0	-12.13092	LRFN1	3.319306133	11.11172731	0.298720985	-1.74313	B3GNT3	47.3276239	16.59653067	0.350673228	-1.511801
LBX1	1.100642416	0	0	-12.13092	NUTM2F	3.319306133	11.11172731	0.298720985	-1.74313	HPN	314.7837311	110.3669289	0.350611922	-1.512053
PDX1	1.100642416	0	0	-12.13092	LIN28A	3.319306133	11.11172731	0.298720985	-1.74313	TSPAN9	435.8543969	152.6880821	0.350319013	-1.513259
IGSF6	1.100642416	0	0	-12.13092	FCRL2	3.319306133	11.11172731	0.298720985	-1.74313	NBEA	3341.550376	1170.055412	0.350153456	-1.513941
TM4SF5	1.100642416	0	0	-12.13092	MOGAT2	3.319306133	11.11172731	0.298720985	-1.74313	KCNN4	30.81798766	10.78774493	0.350047026	-1.514379
ENSG000001	1.100642416	0	0	-12.13092	NTSR2	3.319306133	11.11172731	0.298720985	-1.74313	CR2	30.81798766	10.78774493	0.350047026	-1.514379
AWAT2	1.100642416	0	0	-12.13092	TCHHL1	3.319306133	11.11172731	0.298720985	-1.74313	OASL	30.81798766	10.78774493	0.350047026	-1.514379
STAR	1.100642416	0	0	-12.13092	TRIM61	3.319306133	11.11172731	0.298720985	-1.74313	WASH6P	30.81798766	10.78774493	0.350047026	-1.514379
SLC39A4	1.100642416	0	0	-12.13092	NALF1	3.319306133	11.11172731	0.298720985	-1.74313	ZNF337-AS1	272.9593192	95.43005134	0.349612725	-1.51617
SURF6	1.100642416	0	0	-12.13092	EHBP1-AS1	3.319306133	11.11172731	0.298720985	-1.74313	GUCY1A2	242.1413316	84.6423064	0.34955745	-1.516399
LCN9	1.100642416	0	0	-12.13092	CAP1P2	3.319306133	11.11172731	0.298720985	-1.74313	RLN2	90.25267814	31.53340827	0.349390278	-1.517089
HYOU1	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	11.11172731	0.298720985	-1.74313	MKRN5P	45.12633907	15.76670413	0.349390278	-1.517089
ENSG000001	1.100642416	0	0	-12.13092	PLAC4	3.319306133	11.11172731	0.298720985	-1.74313	HIVEP1	6631.370558	2316.045855	0.349255985	-1.517643
THRSP	1.100642416	0	0	-12.13092	ROPN1	1.659653067	5.555863657	0.298720985	-1.74313	SLC25A37	731.9272068	255.5865723	0.34919671	-1.517888

PTH	1.100642416	0	0	-12.13092	TACR2	1.659653067	5.555863657	0.298720985	-1.74313	ITGA4	475.4775238	165.9653067	0.349049741	-1.518495
NRSN1	1.100642416	0	0	-12.13092	CYP2D6	1.659653067	5.555863657	0.298720985	-1.74313	GRIN2A	59.43469048	20.74566333	0.349049741	-1.518495
NEIL2	1.100642416	0	0	-12.13092	DAW1	1.659653067	5.555863657	0.298720985	-1.74313	NAP1L2	687.9015102	239.8198681	0.348625297	-1.520251
SLC16A1	1.100642416	0	0	-12.13092	RFPL3	1.659653067	5.555863657	0.298720985	-1.74313	DCN	4476.312707	1559.244056	0.348332245	-1.521464
GPR61	1.100642416	0	0	-12.13092	SLC26A10P	1.659653067	5.555863657	0.298720985	-1.74313	SERPINB9	245.4432588	85.47213294	0.348235814	-1.521864
KCNS2	1.100642416	0	0	-12.13092	ST6GAL2	1.659653067	5.555863657	0.298720985	-1.74313	DDX60	1247.027858	433.999277	0.34802693	-1.522729
COX6A2	1.100642416	0	0	-12.13092	BATF	1.659653067	5.555863657	0.298720985	-1.74313	BPIFB1	14.30835141	4.9789592	0.347975742	-1.522941
TMSB15B	1.100642416	0	0	-12.13092	MS4A1	1.659653067	5.555863657	0.298720985	-1.74313	ESPNL	14.30835141	4.9789592	0.347975742	-1.522941
IRX6	1.100642416	0	0	-12.13092	SLAMF9	1.659653067	5.555863657	0.298720985	-1.74313	SORCS3	14.30835141	4.9789592	0.347975742	-1.522941
CES5A	1.100642416	0	0	-12.13092	NKX6-3	1.659653067	5.555863657	0.298720985	-1.74313	SHCBP1L	14.30835141	4.9789592	0.347975742	-1.522941
SPRR2G	1.100642416	0	0	-12.13092	NCF1C	1.659653067	5.555863657	0.298720985	-1.74313	FGF17	14.30835141	4.9789592	0.347975742	-1.522941
LINC01116	1.100642416	0	0	-12.13092	TAC3	1.659653067	5.555863657	0.298720985	-1.74313	SLC34A3	14.30835141	4.9789592	0.347975742	-1.522941
FAM86KP	1.100642416	0	0	-12.13092	GOT1L1	1.659653067	5.555863657	0.298720985	-1.74313	ENSG000002	14.30835141	4.9789592	0.347975742	-1.522941
TCF23	1.100642416	0	0	-12.13092	H1-8	1.659653067	5.555863657	0.298720985	-1.74313	CYP2U1-AS1	14.30835141	4.9789592	0.347975742	-1.522941
KLKB1	1.100642416	0	0	-12.13092	FOXD4L4	1.659653067	5.555863657	0.298720985	-1.74313	ENSG000002	14.30835141	4.9789592	0.347975742	-1.522941
SMAD5-AS1	1.100642416	0	0	-12.13092	CHRNG	1.659653067	5.555863657	0.298720985	-1.74313	PTPN23-DT	14.30835141	4.9789592	0.347975742	-1.522941
SPAG11B	1.100642416	0	0	-12.13092	OR5B21	1.659653067	5.555863657	0.298720985	-1.74313	ENSG000002	14.30835141	4.9789592	0.347975742	-1.522941
LLCFC1	1.100642416	0	0	-12.13092	TEDDM1	1.659653067	5.555863657	0.298720985	-1.74313	NR5A2	42.92505424	14.9368776	0.347975742	-1.522941
LRRC18	1.100642416	0	0	-12.13092	TCEAL5	1.659653067	5.555863657	0.298720985	-1.74313	STPG2	42.92505424	14.9368776	0.347975742	-1.522941
TRIM51HP	1.100642416	0	0	-12.13092	TRAJ50	1.659653067	5.555863657	0.298720985	-1.74313	MEIS1	1018.094235	353.5061032	0.347223362	-1.526064
ENSG000001	1.100642416	0	0	-12.13092	SPINK13	1.659653067	5.555863657	0.298720985	-1.74313	IRF1-AS1	248.7451861	86.30195947	0.346949265	-1.527203
PKD1L2	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	NUTM2D	55.03212081	19.08601027	0.346815823	-1.527758
CPLX4	1.100642416	0	0	-12.13092	OR6X1	1.659653067	5.555863657	0.298720985	-1.74313	DAB2	2108.83087	731.0771759	0.346674163	-1.528348
MC4R	1.100642416	0	0	-12.13092	SUPT20HL1	1.659653067	5.555863657	0.298720985	-1.74313	TMEM220	395.1306275	136.921378	0.346521804	-1.528982
ENSG000001	1.100642416	0	0	-12.13092	RPL36AP7	1.659653067	5.555863657	0.298720985	-1.74313	LINC01725	40.7237694	14.10705107	0.346408284	-1.529455
GOLGA6C	1.100642416	0	0	-12.13092	RPS18P12	1.659653067	5.555863657	0.298720985	-1.74313	MID2	529.4090022	183.3916639	0.346408284	-1.529455
OR51I1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	CD180	107.8629568	37.342194	0.346200356	-1.530321
SLC43A2	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	SLC7A8	712.1156433	246.4584804	0.346093339	-1.530767
PNOC	1.100642416	0	0	-12.13092	YWHAQP6	1.659653067	5.555863657	0.298720985	-1.74313	BACE1	213.5246288	73.85456147	0.345883104	-1.531644
DHFRP3	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	RAI14	1032.402586	356.8254093	0.345626226	-1.532715
HJV	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	BTLA	26.41541799	9.128091867	0.345559244	-1.532995
ADAM18	1.100642416	0	0	-12.13092	OR6Q1	1.659653067	5.555863657	0.298720985	-1.74313	ENSG000002	26.41541799	9.128091867	0.345559244	-1.532995
NR0B1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	WDR91	316.9850159	109.5371024	0.345559244	-1.532995
DRD5	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	LRIG3	922.3383449	318.6533888	0.345484269	-1.533308
GSX1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	5.555863657	0.298720985	-1.74313	ADD3	1713.700242	591.6663183	0.3452566	-1.534259
AHSP	1.100642416	0	0	-12.13092	B4GAT1	97.91953094	327.7959558	0.298720985	-1.74313	ARAP2	862.9036544	297.9077255	0.345238688	-1.534334
SERPINA6	1.100642416	0	0	-12.13092	SMPDL3A	34.8527144	116.6731368	0.298720985	-1.74313	CRAT	988.3768898	341.0587052	0.345069486	-1.535041
HSPB2	1.100642416	0	0	-12.13092	LRSAM1	148.5389495	497.8053837	0.298387591	-1.744741	SH2D3A	129.8758051	44.8106328	0.345026795	-1.53522
CST5	1.100642416	0	0	-12.13092	LBH	70.53525534	236.6797918	0.298019762	-1.74652	ZDHHC3	531.6102871	183.3916639	0.344973881	-1.535441
TCAF2	1.100642416	0	0	-12.13092	DGKA	47.3001124	158.8977006	0.297676506	-1.748183	PRAM1	89.15203572	30.70358173	0.344395745	-1.537861
SOX7	1.100642416	0	0	-12.13092	TRHDE	34.02288787	114.4507913	0.297270884	-1.75015	MON2	4303.511848	1481.240362	0.344193397	-1.538709
OBP2B	1.100642416	0	0	-12.13092	RGMA	32.3632348	108.8949277	0.297196899	-1.750509	TF	74.84368431	25.72462253	0.343711333	-1.540731
DSCAM	1.100642416	0	0	-12.13092	TAMALIN	27.3842756	92.22733671	0.296921461	-1.751847	SLC12A4	833.1863091	286.290154	0.343608807	-1.541161
LKAAEAR1	1.100642416	0	0	-12.13092	GLIPR1	126.9634596	427.8015016	0.296781239	-1.752528	LPAR6	321.3875856	110.3669289	0.343407567	-1.542006
PCDHB1	1.100642416	0	0	-12.13092	NSUN7	149.368776	503.3612473	0.296742701	-1.752716	ZNF649	1560.710946	535.238114	0.342945063	-1.543951
FAM90A1	1.100642416	0	0	-12.13092	ZNF404	112.026582	377.7987287	0.296524508	-1.753777	ENPP2	1035.704514	355.1657563	0.342921897	-1.544048
METAP1D	1.100642416	0	0	-12.13092	NR2F2	331.1007868	1116.728595	0.296491724	-1.753936	CCDC92	72.64239948	24.894796	0.342703382	-1.544968
ADCK5	1.100642416	0	0	-12.13092	FBXL2	175.9232251	594.4774113	0.295929201	-1.756676	DCP1B	36.32119974	12.447398	0.342703382	-1.544968
CST9	1.100642416	0	0	-12.13092	ZNHIT2	69.7054288	235.5686191	0.295902863	-1.756804	CRYGS	36.32119974	12.447398	0.342703382	-1.544968
HES3	1.100642416	0	0	-12.13092	PLXDC2	304.5463377	1030.057122	0.295659659	-1.757991	ITIH2	24.21413316	8.298265334	0.342703382	-1.544968
CCDC13-AS1	1.100642416	0	0	-12.13092	C11orf71	94.6002248	320.0177467	0.295609309	-1.758236	PLD4	24.21413316	8.298265334	0.342703382	-1.544968
ZBTB4	1.100642416	0	0	-12.13092	SH2D4A	63.06681654	213.3451644	0.295609309	-1.758236	TEKTIP1	24.21413316	8.298265334	0.342703382	-1.544968
MIR1-1HG	1.100642416	0	0	-12.13092	SELENOO	61.40716347	207.7893008	0.295526109	-1.758643	ENSG000002	24.21413316	8.298265334	0.342703382	-1.544968
GRIK1-AS1	1.100642416	0	0	-12.13092	XBP1	530.2591548	1794.543961	0.295484071	-1.758848	CYFIP1	24.21413316	8.298265334	0.342703382	-1.544968
VN2R1P	1.100642416	0	0	-12.13092	CCDC170	28.21410213	95.5608549	0.295247486	-1.760003	WNT16	12.10706658	4.149132667	0.342703382	-1.544968
NPPA	1.100642416	0	0	-12.13092	AKR1C1	28.21410213	95.5608549	0.295247486	-1.760003	IPCEF1	12.10706658	4.149132667	0.342703382	-1.544968
ZBTB44-DT	1.100642416	0	0	-12.13092	SOD3	14.10705107	47.78042745	0.295247486	-1.760003	TINAG	12.10706658	4.149132667	0.342703382	-1.544968
OR51B6	1.100642416	0	0	-12.13092	HPS6	54.7685512	185.5658462	0.295143489	-1.760512	UGT2B17	12.10706658	4.149132667	0.342703382	-1.544968
ENSG000001	1.100642416	0	0	-12.13092	NEDD9	424.8711851	1440.07986	0.295033072	-1.761051	LINC00954	12.10706658	4.149132667	0.342703382	-1.544968
TRIM60	1.100642416	0	0	-12.13092	MBOAT7	12.447398	42.22456379	0.294790446	-1.762238	ZNF394	819.9786001	280.4813683	0.342059376	-1.547681
IFNW1	1.100642416	0	0	-12.13092	CX3CR1	12.447398	42.22456379	0.294790446	-1.762238	SORL1	4521.439046	1545.966832	0.341919202	-1.548273
CETN1	1.100642416	0	0	-12.13092	DNAH12	58.91768387	200.0110917	0.294572083	-1.763307	ZNF853	94.6552478	32.3632348	0.341906398	-1.548327
RPL13AP3	1.100642416	0	0	-12.13092	JUNB	573.4101346	1947.885798	0.294375643	-1.76427	MUC5B	177.203429	60.57733694	0.341851945	-1.548556
FLJ40194	1.100642416	0	0	-12.13092	BHLHE41	21.57548987	73.33740027	0.29419491	-1.765156	LMF1	305.9785917	104.5581432	0.341717186	-1.549125
VCX2	1.100642416	0	0	-12.13092	GP1BA	10.78774493	36.66870014	0.29419491	-1.765156	SPEG	505.1948691	172.6039189	0.3416581	-1.549375
ENSG000001	1.100642416	0	0	-12.13092	INSYN2A	10.78774493	36.66870014	0.29419491	-1.765156	CCDC30	199.2162773	68.04577574	0.341567349	-1.549758
YWHAQP4	1.100642416	0	0	-12.13092	FSTL3	30.70358173	104.4502368	0.293954161	-1.766337	CEBPA	116.6680961	39.8316736	0.341410162	-1.550422
ZNRF3-AS1	1.100642416	0	0	-12.13092	ABI3	19.9158368	67.78153662	0.29382392	-1.766976	PIK3R1	2248.612456	767.5895434	0.341361421	-1.550628
SPINK6	1.100642416	0	0	-12.13092	PMEPA1	166.7951332	567.8092658	0.293752045	-1.767329	GSTM4	221.2291257	75.51421454	0.341339389	-1.550721
CALML5	1.100642416	0	0	-12.13092	UNC93B1	203.3075007	692.2606117	0.293686362	-1.767652	MIR29B2CH(	138.6809445	47.3001124	0.341071461	-1.551854
LINC00314	1.100642416	0	0	-12.13092	WIPI1	151.0284291	514.4729747	0.2935595	-1.768275	MYRFL	92.45396297	31.53340827	0.341071461	-1.551854
ERFE	1.100642416	0	0	-12.13092	TGFBR3	318.6533888	1085.615759	0.293523179	-1.768454	UBE2V1P1	46.22698148	15.76670413	0.341071461	-1.551854
NSA2P3	1.100642416	0	0	-12.13092	MTHFR	242.3093477	825.6013395	0.293494373	-1.768595	ZBTB38	2437.922952	830.6563599	0.340722975	-1.553329
LINC00311	1.100642416	0	0	-12.13092	PGC	9.128091867	31.11283648	0.293386682	-1.769125	CD248	592.14562	201.6478476	0.340537599	-1.554114
ENSG000001	1.100642416	0	0	-12.13092	CLIP3	78.83352067	268.903801	0.293166256	-1.770209	IZUMO4	34.11991491	11.61757147	0.340492393	-1.554306
IL6-AS1	1.100642416	0	0	-12.13092	FADS3	169.2846128	577.8098203	0.292976351	-1.771144	ENSG000002	34.11991491	11.61757147	0.340492393	-1.554306
ENSG000001	1.100642416	0	0	-12.13092	TOM1	134.4318984	458.9143381	0.292934623	-1.771349	SLC24A1	248.7451861	84.6423064	0.340277164	-1.555218
SYCN	1.100642416	0	0	-12.13092	VPS51	368.4429808	1257.847532	0.292915454	-1.771444	COL4A6	180.5053563	61.40716347	0.340195797	-1.555563
XIAPP3	1.100642416	0	0	-12.13092	SCN11A	16.59653067	56.6698093	0.292863711	-1.771699	ZNF398	719.8201403	244.7988273	0.340083326	-1.55604
TPT1P10	1.100642416	0	0	-12.13092	LIMS2	24.06496947	82.22678213	0.29266583	-1.772674	DRP2	112.2655265	38.17202053	0.340015513	-1.556328
TMEM277P	1.100642416	0	0	-12.13092	SLC47A1	111.1967555	380.0210742	0.292606813	-1.772965	TBL2	324.6895128	110.3669289	0.339915287	-1.556753
DEFB124	1.100642416	0	0	-12.13092	ZNF783	78.00369414	266.6814555	0.292497632	-1.773503	B3GNT9	78.14561156	26.55444907	0.339807297	-1.557211
ATP5F1EP2	1.100642416	0	0	-12.13092	GPR137B	385.869338	1320.073205	0.292309045	-1.774434	NCOA4	1939.331938	658.8822675	0.339747031	-1.557467
HOXC9	1.100642416	0	0	-12.13092	CSF2RB	29.8737552	102.2278913	0.292227051	-1.774838	METTL27	154.0899383	52.2790716	0.339276349	-1.559467
LINC01555	1.100642416	0	0	-12.13092	SV2A	22.4053164	76.67091847	0.292227051	-1.774838	IMPG2	44.02569665	14.9368776	0.339276349	-1.559467
DEFB112	1.100642416	0	0	-12.13092	SLC12A1	7.4684388	25.55697282	0.292227051	-1.774838	LYL1	22.01284833	7.4684388	0.339276349	-1.559467
HECW1-IT1	1.100642416	0	0	-12.13092	TCTE1	7.4684388	25.55697282	0.292227051	-1.774838	TENT5B	22.01284833	7.4684388	0.339276349	-1.559467
EDDM3B	1.100642416	0	0	-12.13092	BEND6	7.4684388	25.55697282	0.292227051	-1.774838	CYP4F22	22.01284833	7.4684388	0.339276349	-1.559467
FDCSP	1.100642416	0	0	-12.13092	CD274	52.2790716	178.8988098	0.292227051	-1.774838	ARHGEF26-/	22.01284833	7.4684388	0.339276349	-1.559467
ARL6IP4	1.100642416	0	0	-12.13092	MYO5B	698.7139411	2391.243718	0.292196875	-1.774987	SLC39A6	3628.818047	1230.632749	0.339127709	-1.560099
PDSS1P1	1.100642416	0	0	-12.13092	ATP13A1	611.5821551	2093.449426	0.292140879	-1.775264	COL7A1	832.0856667	282.1410213	0.339076892	-1.560316
OR7E115P	1.100642416	0	0	-12.13092	STAT6	146.0494699	500.0277291	0.292082741	-1.775551	MON1A	141.9828717	48.12993894	0.338984121	-1.56071
RPS17	1.100642416	0	0	-12.13092	WBP1L	108.7072759	372.242865	0.292033202	-1.775796	ATP1A2	205.8201318	69.7054288	0.338671578	-1.562041
GSTA5	1.100642416	0	0	-12.13092	CDK19	551.0048182	1887.882471	0.291863941	-1.776632	ACOX2	129.8758051	43.98080627	0.33863741	-1.562187
FUNDC2P2	1.100642416	0	0	-12.13092	CENPT	77.1738676	264.4591101	0.291817769	-1.77686	TBC1D9B	343.4004339	116.1757147	0.338309749	-1.563583
CNOT10	1.100642416	0	0	-12.13092	TOM1L2	331.9306133	1137.840877	0.291719712	-1.777345	LDB2	299.3747372	101.2388371	0.338167602	-1.56419
NKX2-5	1.100642416	0	0	-12.13092	PZP	20.74566333	71.11505481	0.291719712	-1.777345	SLC16A5	31.91863007	10.78774493	0.337976439	-1.565005
RIMBP3C	1.100642416	0	0	-12.13092	TST	75.51421454	258.9032464	0.291669632	-1.777593	TSPOAP1-AS	31.91863007	10.78774493	0.337976439	-1.565005
ENSG000001	1.100642416	0	0	-12.13092	TAF1L	34.02288787	116.6731368	0.291608581	-1.777895	FNBP4	159.5931504	53.93872467	0.337976439	-1.565005
OR52L1	1.100642416	0	0	-12.13092	CEACAM1	26.55444907	91.11616398	0.291435108	-1.778753	ZNF703	923.4389873	312.0147765	0.337883478	-1.565402
KLRC4	1.100642416	0	0	-12.13092	CCDC9B	13.27722453	45.55808199	0.291435108	-1.778753	LDB1	1022.496805	345.2078379	0.337612632	-1.566559

TP53TG3	1.100642416	0	0	-12.13092	OPHN1	184.2214904	632.2572842	0.291371084	-1.77907	ADAM22	2032.886543	686.2665431	0.337582314	-1.566689
CMKLR2	1.100642416	0	0	-12.13092	ADCY6	288.7796336	992.2772492	0.291027164	-1.780774	FRY	2413.708819	814.0598292	0.337265134	-1.568045
RFLNB	1.100642416	0	0	-12.13092	CCDC24	65.55629614	225.5680645	0.29062756	-1.782757	FBN2	206.9207743	69.7054288	0.336870133	-1.569736
RPL11P4	1.100642416	0	0	-12.13092	MID2	183.3916639	631.1461115	0.290569268	-1.783046	MYO1G	175.0021442	58.91768387	0.336668354	-1.5706
OR4F6	1.100642416	0	0	-12.13092	APPL2	704.5227268	2425.690073	0.290442186	-1.783677	HBP1	184.9079259	62.23699	0.336583679	-1.570963
LINC00315	1.100642416	0	0	-12.13092	CCDC74B	11.61757147	40.00221833	0.29042318	-1.783771	PIEZO1	2155.057851	725.2683902	0.336542423	-1.57114
GDF3	1.100642416	0	0	-12.13092	NDUFB2-AS	11.61757147	40.00221833	0.29042318	-1.783771	ACSS2	318.0856583	107.0476228	0.336537093	-1.571163
PABPC1L2B	1.100642416	0	0	-12.13092	MAP4K1	5.808785734	20.00110917	0.29042318	-1.783771	FBLN1	7160.77956	2408.986426	0.33641399	-1.57169
POU3F2	1.100642416	0	0	-12.13092	LINC00571	5.808785734	20.00110917	0.29042318	-1.783771	HEG1	2104.4283	707.842033	0.336358351	-1.571929
RPL7P26	1.100642416	0	0	-12.13092	PLCG1-AS1	5.808785734	20.00110917	0.29042318	-1.783771	SP100	1400.017154	470.5116444	0.336075628	-1.573142
DMRTC1B	1.100642416	0	0	-12.13092	ENSG000002	5.808785734	20.00110917	0.29042318	-1.783771	CD86	150.788011	50.61941854	0.335699226	-1.574759
DGAT1	1.100642416	0	0	-12.13092	SELENOO-A	5.808785734	20.00110917	0.29042318	-1.783771	ZBTB20	2636.038587	884.5950846	0.335577441	-1.575282
MAGEA11	1.100642416	0	0	-12.13092	TMEM150A	17.4263572	60.0033275	0.29042318	-1.783771	ZNF777	636.1713166	213.2654191	0.335232686	-1.576765
LYG2	1.100642416	0	0	-12.13092	TMEM8B	207.4566333	714.4840663	0.290358656	-1.784092	CYP51A1	29.71734524	9.9579184	0.335087752	-1.577389
HDHD5-AS1	1.100642416	0	0	-12.13092	MAN2B1	351.0166236	1208.955932	0.290346914	-1.78415	SEC14L1P1	29.71734524	9.9579184	0.335087752	-1.577389
OR4C46	1.100642416	0	0	-12.13092	ACCS	91.28091867	314.461883	0.290276576	-1.7845	RPS26	733.0278493	245.6286539	0.335087752	-1.577389
CA5BP1	1.100642416	0	0	-12.13092	AGAP4	107.0476228	368.9093468	0.290173246	-1.785014	SPATA6L	99.05781747	33.19306133	0.335087752	-1.577389
SLC36A2	1.100642416	0	0	-12.13092	WWTR1	279.6515417	964.4979309	0.289945196	-1.786148	CYP27B1	19.81156349	6.638612267	0.335087752	-1.577389
SPATA31D3	1.100642416	0	0	-12.13092	KLF5	420.7220524	1451.191587	0.289914892	-1.786299	SZT2-AS1	19.81156349	6.638612267	0.335087752	-1.577389
KRTAP22-1	1.100642416	0	0	-12.13092	EHD1	250.6076131	864.4923851	0.289889902	-1.786423	SPP2	9.905781747	3.319306133	0.335087752	-1.577389
KRTAP19-2	1.100642416	0	0	-12.13092	IARS1	119.4950208	412.2450834	0.289864029	-1.786552	TRPC5	9.905781747	3.319306133	0.335087752	-1.577389
KRTAP12-1	1.100642416	0	0	-12.13092	TSPAN10	21.57548987	74.44857301	0.289803941	-1.786851	AFM	9.905781747	3.319306133	0.335087752	-1.577389
FAM9C	1.100642416	0	0	-12.13092	XXYLT1	90.45109214	312.2395375	0.289684941	-1.787443	SLC26A3	9.905781747	3.319306133	0.335087752	-1.577389
PRR27	1.100642416	0	0	-12.13092	SERPING1	726.0982167	2509.028028	0.289394223	-1.788892	MIOX	9.905781747	3.319306133	0.335087752	-1.577389
SSX7	1.100642416	0	0	-12.13092	CHID1	441.4677158	1525.64016	0.289365558	-1.789035	PON3	9.905781747	3.319306133	0.335087752	-1.577389
HSPE1P11	1.100642416	0	0	-12.13092	AFAP1	235.6707355	814.4896121	0.289347749	-1.789124	ARTN	9.905781747	3.319306133	0.335087752	-1.577389
CARD9	1.100642416	0	0	-12.13092	CCDC85B	55.59837774	192.2328825	0.289224076	-1.78974	OMD	9.905781747	3.319306133	0.335087752	-1.577389
HELT	1.100642416	0	0	-12.13092	BICDL2	111.1967555	384.4657651	0.289224076	-1.78974	FCRL2	9.905781747	3.319306133	0.335087752	-1.577389
FAM230D	1.100642416	0	0	-12.13092	PHLDA3	9.9579184	34.44635467	0.289084825	-1.790435	SLC3A1	9.905781747	3.319306133	0.335087752	-1.577389
NRN1L	1.100642416	0	0	-12.13092	ABTB1	187.5407965	648.9248752	0.289002323	-1.790847	C4orf17	9.905781747	3.319306133	0.335087752	-1.577389
DAZ1	1.100642416	0	0	-12.13092	CHPF2	180.0723577	623.3679023	0.288870115	-1.791507	TKTL2	9.905781747	3.319306133	0.335087752	-1.577389
TMEM215	1.100642416	0	0	-12.13092	ZNF462	1394.938403	4829.156691	0.288857557	-1.79157	DYNLT5	9.905781747	3.319306133	0.335087752	-1.577389
IFNA2	1.100642416	0	0	-12.13092	PCED1A	276.3322356	956.7197218	0.288833009	-1.791692	FAM20C	9.905781747	3.319306133	0.335087752	-1.577389
PDCD1	1.100642416	0	0	-12.13092	PAXIP1-AS2	14.10705107	48.89160018	0.288537315	-1.79317	DIP2C-AS1	9.905781747	3.319306133	0.335087752	-1.577389
ENSG000001	1.100642416	0	0	-12.13092	CYBRD1	224.053164	776.7097393	0.288464471	-1.793534	PPP1R8P1	9.905781747	3.319306133	0.335087752	-1.577389
CLEC20A	1.100642416	0	0	-12.13092	CHL1	1734.337455	6018.111513	0.288186327	-1.794926	OR52I2	9.905781747	3.319306133	0.335087752	-1.577389
PLET1	1.100642416	0	0	-12.13092	TARBP2	39.00184707	135.5630732	0.287702588	-1.79735	FHAD1-AS1	9.905781747	3.319306133	0.335087752	-1.577389
KIAA0408	1.100642416	0	0	-12.13092	TMEM106A	39.00184707	135.5630732	0.287702588	-1.79735	SLC26A5-AS	9.905781747	3.319306133	0.335087752	-1.577389
SPATA41	1.100642416	0	0	-12.13092	SLC25A23	172.6039189	600.033275	0.287657245	-1.797577	ENSG000002	9.905781747	3.319306133	0.335087752	-1.577389
TUBB	1.100642416	0	0	-12.13092	ABCC10	255.5865723	888.9381852	0.287518949	-1.798271	RBM17P4	9.905781747	3.319306133	0.335087752	-1.577389
ZNF781	1.100642416	0	0	-12.13092	POLM	68.04577574	236.6797918	0.287501418	-1.798359	ENSG000002	9.905781747	3.319306133	0.335087752	-1.577389
OR4Q2	1.100642416	0	0	-12.13092	PAQR8	134.4318984	467.8037199	0.287368169	-1.799028	OR2L8	9.905781747	3.319306133	0.335087752	-1.577389
SPANXD	1.100642416	0	0	-12.13092	ALOX15	12.447398	43.33573653	0.287231717	-1.799713	ZNF280D	401.7344819	134.4318984	0.334628727	-1.579367
NBPF4	1.100642416	0	0	-12.13092	EEF1A1P13	12.447398	43.33573653	0.287231717	-1.799713	PLN	96.85653263	32.3632348	0.334135798	-1.581494
OR9K1P	1.100642416	0	0	-12.13092	PDYN	4.149132667	14.44524551	0.287231717	-1.799713	YIPF1	551.4218506	184.2214904	0.334084495	-1.581715
PFN3	1.100642416	0	0	-12.13092	SORCS1	4.149132667	14.44524551	0.287231717	-1.799713	WLS	1384.60816	462.2133791	0.333822516	-1.582847
ENSG000001	1.100642416	0	0	-12.13092	SERPINI2	4.149132667	14.44524551	0.287231717	-1.799713	TGFBR2	4581.974379	1529.370301	0.333779758	-1.583032
ELANE	1.100642416	0	0	-12.13092	OR1E2	4.149132667	14.44524551	0.287231717	-1.799713	ALDH1A1	979.5717505	326.9516541	0.333769991	-1.583074
ENSG000001	1.100642416	0	0	-12.13092	TMEM132D	4.149132667	14.44524551	0.287231717	-1.799713	SPATA13	181.6059987	60.57733694	0.333564625	-1.583962
NMB	1.100642416	0	0	-12.13092	M1AP	4.149132667	14.44524551	0.287231717	-1.799713	KLHL31	57.23340565	19.08601027	0.333476753	-1.584342
MEIG1	1.100642416	0	0	-12.13092	FANCD2OS	4.149132667	14.44524551	0.287231717	-1.799713	HMOX2	47.3276239	15.76670413	0.333139567	-1.585801
ENSG000001	1.100642416	0	0	-12.13092	RSPO1	4.149132667	14.44524551	0.287231717	-1.799713	ARSA	309.280519	102.8984901	0.332702785	-1.587694
DDX39B	1.100642416	0	0	-12.13092	SLC22A25	4.149132667	14.44524551	0.287231717	-1.799713	CSMD1	37.42184215	12.447398	0.332623871	-1.588036
ENSG000001	1.100642416	0	0	-12.13092	CYSRT1	4.149132667	14.44524551	0.287231717	-1.799713	LRIT3	37.42184215	12.447398	0.332623871	-1.588036
OR7E103P	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	14.44524551	0.287231717	-1.799713	ENSG000002	37.42184215	12.447398	0.332623871	-1.588036
CSAG1	1.100642416	0	0	-12.13092	PGK1P2	4.149132667	14.44524551	0.287231717	-1.799713	HYKK	112.2655265	37.342194	0.332623871	-1.588036
MIRLET7E	1.100642416	0	0	-12.13092	OR2L6P	4.149132667	14.44524551	0.287231717	-1.799713	F8	1714.800885	570.0908284	0.332453076	-1.588777
MIR375	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	14.44524551	0.287231717	-1.799713	ALDH4A1	307.0792341	102.0686636	0.332385431	-1.589071
MIR30E	1.100642416	0	0	-12.13092	KPNA2P1	4.149132667	14.44524551	0.287231717	-1.799713	AMY2B	444.6595362	147.7091229	0.332184764	-1.589942
MIR340	1.100642416	0	0	-12.13092	ALG1L2	4.149132667	14.44524551	0.287231717	-1.799713	PCDHGC3	570.1327716	189.2004496	0.331853314	-1.591382
RN7SKP184	1.100642416	0	0	-12.13092	SIGLEC10-A	4.149132667	14.44524551	0.287231717	-1.799713	C3orf20	27.51606041	9.128091867	0.331736874	-1.591889
RNU6-834P	1.100642416	0	0	-12.13092	NSMF	351.0166236	1222.290005	0.287179493	-1.799975	KLRD1	27.51606041	9.128091867	0.331736874	-1.591889
RNU6-28P	1.100642416	0	0	-12.13092	C6orf132	195.8390619	682.2600571	0.287044595	-1.800653	RAB1AP1	27.51606041	9.128091867	0.331736874	-1.591889
RN7SKP25	1.100642416	0	0	-12.13092	NADSYN1	463.8730322	1616.756324	0.286915861	-1.8013	EEF1A1P9	27.51606041	9.128091867	0.331736874	-1.591889
RNU5F-1	1.100642416	0	0	-12.13092	NCEH1	96.25987787	335.5741649	0.286851277	-1.801625	P2RX7	82.54818122	27.3842756	0.331736874	-1.591889
RNU6-1313P	1.100642416	0	0	-12.13092	FOXO4	115.3458881	402.2445288	0.286755642	-1.802106	FMNL1	310.3811614	102.8984901	0.331522988	-1.592819
RNU5A-1	1.100642416	0	0	-12.13092	LCAT	35.68254093	124.4513459	0.286718803	-1.802292	PTPN13	3950.205632	1309.46627	0.331493191	-1.592949
Y_RNA.7	1.100642416	0	0	-12.13092	ZNF446	65.55629614	228.9015827	0.28639512	-1.803921	AMOTL2	526.107075	174.263572	0.331232139	-1.594085
RNU4-21P	1.100642416	0	0	-12.13092	RASGRP4	19.08601027	66.67036389	0.286274278	-1.80453	VWA2	361.0107125	119.4950208	0.331001316	-1.595091
RNU6-1079P	1.100642416	0	0	-12.13092	DENND1C	19.08601027	66.67036389	0.286274278	-1.80453	DNAH1	782.556758	258.9058784	0.330846135	-1.595768
Y_RNA.11	1.100642416	0	0	-12.13092	RAB26	14.9368776	52.22511838	0.286009454	-1.805865	PXN	1455.049274	481.2993894	0.330778756	-1.596062
Y_RNA.12	1.100642416	0	0	-12.13092	SLC35E2B	156.8372148	548.9193293	0.285719971	-1.807326	SEC24D	2156.158494	712.8209922	0.330597678	-1.596852
RNU6-888P	1.100642416	0	0	-12.13092	NELFA	191.6899292	672.2595025	0.285142759	-1.810244	STAT3	3422.997915	1131.053565	0.330427769	-1.597593
Y_RNA.13	1.100642416	0	0	-12.13092	FAM78A	17.4263572	61.11450023	0.285142759	-1.810244	PPARGC1A	246.5439013	81.32300027	0.32985005	-1.600109
RNU6-249P	1.100642416	0	0	-12.13092	ACP6	107.0476228	375.5763832	0.285022242	-1.810854	MINDY4	17.61027866	5.808785734	0.329852005	-1.600109
RNY1P16	1.100642416	0	0	-12.13092	UNC45A	179.2425312	628.923766	0.28499882	-1.810972	CFAP58	17.61027866	5.808785734	0.329852005	-1.600109
SNORA73	1.100642416	0	0	-12.13092	PLEKHG4	54.7685512	192.2328825	0.284907298	-1.811436	ANKRD23	17.61027866	5.808785734	0.329852005	-1.600109
RNA5SP145	1.100642416	0	0	-12.13092	SIN3B	608.262849	2136.785163	0.284662614	-1.812675	REP15	17.61027866	5.808785734	0.329852005	-1.600109
RNU6-433P	1.100642416	0	0	-12.13092	MFSD3	86.30195947	303.3501557	0.284496177	-1.813519	HSF5	17.61027866	5.808785734	0.329852005	-1.600109
RNU6-181P	1.100642416	0	0	-12.13092	SLC25A20	19.9158368	70.00388208	0.284496177	-1.813519	TRIM73	17.61027866	5.808785734	0.329852005	-1.600109
RNU6-251P	1.100642416	0	0	-12.13092	DPPA2	6.638612267	23.33462736	0.284496177	-1.813519	RPL17P50	17.61027866	5.808785734	0.329852005	-1.600109
Y_RNA.16	1.100642416	0	0	-12.13092	CREG2	6.638612267	23.33462736	0.284496177	-1.813519	LINC00571	17.61027866	5.808785734	0.329852005	-1.600109
Y_RNA.17	1.100642416	0	0	-12.13092	ENSG000002	6.638612267	23.33462736	0.284496177	-1.813519	EIF4EBP3	17.61027866	5.808785734	0.329852005	-1.600109
Y_RNA.18	1.100642416	0	0	-12.13092	MICALL2	214.0952456	753.3751119	0.284181468	-1.815116	TMEM269	17.61027866	5.808785734	0.329852005	-1.600109
RNU6-778P	1.100642416	0	0	-12.13092	SYNC	22.4053164	78.89326393	0.283995303	-1.816061	CALCOCO1	1138.064258	375.0815931	0.329578572	-1.601306
RNU5D-1	1.100642416	0	0	-12.13092	MACIR	117.0055412	412.2450834	0.283825195	-1.816925	GIMAP7	183.8072835	60.57733694	0.32956984	-1.601344
RNU6-1309P	1.100642416	0	0	-12.13092	ELMOD3	94.6002248	333.3518194	0.283784936	-1.81713	USO1	3550.672435	1170.055412	0.329530655	-1.601515
ENSG000002	1.100642416	0	0	-12.13092	IFI44	63.06681654	222.2345463	0.283784936	-1.81713	PURA	766.0471217	252.2672661	0.329310377	-1.60248
SNORA70	1.100642416	0	0	-12.13092	C1R	15.76670413	55.55863657	0.283784936	-1.81713	SCARF2	121.0706658	39.8316736	0.328995247	-1.603861
RNU6-529P	1.100642416	0	0	-12.13092	ENO4	15.76670413	55.55863657	0.283784936	-1.81713	TTC23	388.526773	127.7932861	0.328917581	-1.604202
RNU6-536P	1.100642416	0	0	-12.13092	STOML1	18.25618373	64.44801842	0.2832699	-1.819751	SEL1L	8094.124329	2656.274733	0.328173206	-1.607471
ENSG000002	1.100642416	0	0	-12.13092	PTH1R	57.2580308	202.2334371	0.283128407	-1.820472	FKBP14	212.4239863	69.7054288	0.328142928	-1.607604
Y_RNA.22	1.100642416	0	0	-12.13092	FUCA1	349.3569705	1234.512905	0.282991753	-1.821168	SELENOP	4486.218489	1471.282444	0.327956039	-1.608426
Y_RNA.25	1.100642416	0	0	-12.13092	LRRK1	92.1107452	325.5736103	0.282918339	-1.821542	TAF4B	101.2591023	33.19306133	0.327803235	-1.609098
RNU6-1205P	1.100642416	0	0	-12.13092	HECTD3	213.2654191	754.4862846	0.282663083	-1.822845	COPZ2	50.62955115	16.59653067	0.327803235	-1.609098
RNU6-1284P	1.100642416	0	0	-12.13092	FAAP100	262.2251845	927.8292308	0.28262225	-1.823053	PLA2G4F	108.9635992	35.68254093	0.327472121	-1.610556
RNA5SP161	1.100642416	0	0	-12.13092	ST8SIA6	11.61757147	41.11339106	0.282573905	-1.8233	RNASE6	279.5631737	91.28091867	0.326512671	-1.614789
Y_RNA.28	1.100642416	0	0	-12.13092	TRIM22	116.1757147	411.1339106	0.282573905	-1.8233	FGFR1	1568.415443	512.0029711	0.326446015	-1.615084
RNA5SP68	1.100642416	0	0	-12.13092	ACADVL	1223.16431	4331.351307	0.282397853	-1.824199	ENSG000002	40.7237694	13.27722453	0.326031326	-1.616918
RNA5SP435	1.100642416	0	0	-12.13092	LATS2	110.3669289	391.1328015	0.282172522	-1.825351	DHRS7	3544.06858	1155.118534	0.325930074	-1.617366
Y_RNA.33	1.100642416	0	0	-12.13092	QRICH2	122.8143269	435.5797107	0.281956032	-1.826458	PIK3CG	211.3233439	68.87560227	0.325925196	-1.617387

RNU6-694P	1.100642416	0	0	-12.13092	YIPF1	184.2214904	653.3695661	0.281956032	-1.826458	MYSM1	1709.297673	556.8136039	0.325755784	-1.618137
RNU6-501P	1.100642416	0	0	-12.13092	TMEM161A	97.0897044	344.4635467	0.281857704	-1.826961	SPOCK1	695.6060071	226.5426436	0.325676664	-1.618488
RNU6-668P	1.100642416	0	0	-12.13092	PDE1B	16.59653067	58.89215477	0.28181225	-1.827194	VAMP5	48.42826632	15.76670413	0.325568213	-1.618968
RNU4-51P	1.100642416	0	0	-12.13092	ACAD11	16.59653067	58.89215477	0.28181225	-1.827194	TSPOAP1	586.6424079	190.8601027	0.325343173	-1.619966
RNA5SP368	1.100642416	0	0	-12.13092	TNC	385.869338	1370.075978	0.281640832	-1.828072	LAMP5	56.13276323	18.25618373	0.32523223	-1.620458
Y_RNA.37	1.100642416	0	0	-12.13092	RERE	6212.081429	22056.77872	0.281640466	-1.828073	TOM1L2	1021.396162	331.9306133	0.324977345	-1.621589
SNORD42	1.100642416	0	0	-12.13092	TRADD	24.06496947	85.56030032	0.281263266	-1.830007	CAST	2424.715243	787.5053802	0.324782624	-1.622454
RNU4-40P	1.100642416	0	0	-12.13092	TGIF2	29.04392867	103.339064	0.281054691	-1.831077	SLC46A3	79.24625397	25.72462253	0.324616259	-1.623193
Y_RNA.41	1.100642416	0	0	-12.13092	STEAP4	148.5389495	528.9182202	0.28083538	-1.832203	EVC	490.8865177	159.3266944	0.324569302	-1.623402
RNU6-522P	1.100642416	0	0	-12.13092	STK11IP	204.9671537	730.0404846	0.280761352	-1.832584	EPHA6	1422.030002	461.3835526	0.324454162	-1.623913
Y_RNA.43	1.100642416	0	0	-12.13092	ARVCF	141.9003372	505.5835928	0.28066642	-1.833072	EVA1C	268.5567496	87.131786	0.324444596	-1.623956
RNY4P7	1.100642416	0	0	-12.13092	HYDIN2	56.42820427	201.1222644	0.280566671	-1.833584	RAMP2	133.1777324	43.15097974	0.324010471	-1.625888
RNA5SP513	1.100642416	0	0	-12.13092	ABCD1	81.32300027	290.0160829	0.280408588	-1.834398	ZNF692	397.3319123	128.6231127	0.323717045	-1.627195
SNORD114-1	1.100642416	0	0	-12.13092	RAB34	22.4053164	80.00443666	0.280050924	-1.836239	SCIMP	38.52248457	12.447398	0.323120332	-1.629857
RNU6-60P	1.100642416	0	0	-12.13092	ARSI	17.4263572	62.22567296	0.280050924	-1.836239	SEC14L2	192.6124229	62.23699	0.323120332	-1.629857
SNORA5C	1.100642416	0	0	-12.13092	CBLN3	9.9579184	35.55752741	0.280050924	-1.836239	SYDE1	161.7944352	52.2790716	0.323120332	-1.629857
RNA5SP189	1.100642416	0	0	-12.13092	EPHX3	4.9789592	17.7787637	0.280050924	-1.836239	ZFHX2-AS1	84.74946605	27.3842756	0.323120332	-1.629857
SNORD113-9	1.100642416	0	0	-12.13092	ANGPTL3	4.9789592	17.7787637	0.280050924	-1.836239	KMO	30.81798766	9.9579184	0.323120332	-1.629857
Y_RNA.49	1.100642416	0	0	-12.13092	MTNR1B	4.9789592	17.7787637	0.280050924	-1.836239	STAG3	15.40899383	4.9789592	0.323120332	-1.629857
RNU6-619P	1.100642416	0	0	-12.13092	GABRA2	4.9789592	17.7787637	0.280050924	-1.836239	DHRS9	15.40899383	4.9789592	0.323120332	-1.629857
RNU6-391P	1.100642416	0	0	-12.13092	SHCBP1L	4.9789592	17.7787637	0.280050924	-1.836239	PTPRR	15.40899383	4.9789592	0.323120332	-1.629857
RNA5SP329	1.100642416	0	0	-12.13092	CDH4	4.9789592	17.7787637	0.280050924	-1.836239	KRT72	15.40899383	4.9789592	0.323120332	-1.629857
RNA5SP355	1.100642416	0	0	-12.13092	TEX13C	4.9789592	17.7787637	0.280050924	-1.836239	C17orf97	15.40899383	4.9789592	0.323120332	-1.629857
RNU6-1051P	1.100642416	0	0	-12.13092	RASL10A	2.4894796	8.889381852	0.280050924	-1.836239	BZW1P2	15.40899383	4.9789592	0.323120332	-1.629857
RNA5SP279	1.100642416	0	0	-12.13092	LHB	2.4894796	8.889381852	0.280050924	-1.836239	OTC	7.704496914	2.4894796	0.323120332	-1.629857
RNA5SP151	1.100642416	0	0	-12.13092	PLGLB2	2.4894796	8.889381852	0.280050924	-1.836239	RPH3A	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	VRTN	2.4894796	8.889381852	0.280050924	-1.836239	CHKB	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	TSHB	2.4894796	8.889381852	0.280050924	-1.836239	CRTAM	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	CRIP3	2.4894796	8.889381852	0.280050924	-1.836239	IRGC	7.704496914	2.4894796	0.323120332	-1.629857
FAM32BP	1.100642416	0	0	-12.13092	RSPO3	2.4894796	8.889381852	0.280050924	-1.836239	SLC10A2	7.704496914	2.4894796	0.323120332	-1.629857
LINC00970	1.100642416	0	0	-12.13092	C16orf86	2.4894796	8.889381852	0.280050924	-1.836239	BAAT	7.704496914	2.4894796	0.323120332	-1.629857
NTMT2	1.100642416	0	0	-12.13092	RHO	2.4894796	8.889381852	0.280050924	-1.836239	SLC10A6	7.704496914	2.4894796	0.323120332	-1.629857
TMEM244	1.100642416	0	0	-12.13092	KCNG4	2.4894796	8.889381852	0.280050924	-1.836239	ERICH6B	7.704496914	2.4894796	0.323120332	-1.629857
SPRN	1.100642416	0	0	-12.13092	GPR25	2.4894796	8.889381852	0.280050924	-1.836239	TMCO5A	7.704496914	2.4894796	0.323120332	-1.629857
LINC00222	1.100642416	0	0	-12.13092	AMZ1	2.4894796	8.889381852	0.280050924	-1.836239	SPATA19	7.704496914	2.4894796	0.323120332	-1.629857
LIN28B-AS1	1.100642416	0	0	-12.13092	MYL11	2.4894796	8.889381852	0.280050924	-1.836239	NUDT4B	7.704496914	2.4894796	0.323120332	-1.629857
DEFB110	1.100642416	0	0	-12.13092	IZUMO1R	2.4894796	8.889381852	0.280050924	-1.836239	OR4Q3	7.704496914	2.4894796	0.323120332	-1.629857
RHOXF2B	1.100642416	0	0	-12.13092	ZNF479	2.4894796	8.889381852	0.280050924	-1.836239	FAM9A	7.704496914	2.4894796	0.323120332	-1.629857
IFIT1B	1.100642416	0	0	-12.13092	DBX2	2.4894796	8.889381852	0.280050924	-1.836239	KRT76	7.704496914	2.4894796	0.323120332	-1.629857
TRPC5OS	1.100642416	0	0	-12.13092	TMEM51-AS	2.4894796	8.889381852	0.280050924	-1.836239	ZNF479	7.704496914	2.4894796	0.323120332	-1.629857
TIMM23B	1.100642416	0	0	-12.13092	IGHV7-81	2.4894796	8.889381852	0.280050924	-1.836239	DLEU7	7.704496914	2.4894796	0.323120332	-1.629857
LINC01973	1.100642416	0	0	-12.13092	MTCP1	2.4894796	8.889381852	0.280050924	-1.836239	ALKAL2	7.704496914	2.4894796	0.323120332	-1.629857
CASP12	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	Y_RNA.20	7.704496914	2.4894796	0.323120332	-1.629857
CSNK2B	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	POU5F1B	7.704496914	2.4894796	0.323120332	-1.629857
PRAMEF19	1.100642416	0	0	-12.13092	AKTIPP2	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
DDR1	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	BMPR1AP1	7.704496914	2.4894796	0.323120332	-1.629857
LRCOL1	1.100642416	0	0	-12.13092	AK4P6	2.4894796	8.889381852	0.280050924	-1.836239	LINC02897	7.704496914	2.4894796	0.323120332	-1.629857
POLR1HASP	1.100642416	0	0	-12.13092	MYCBP2-AS	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
HLA-F	1.100642416	0	0	-12.13092	KRTAP5-8	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
FAM88C	1.100642416	0	0	-12.13092	PCP4L1	2.4894796	8.889381852	0.280050924	-1.836239	CTAGE9	7.704496914	2.4894796	0.323120332	-1.629857
PRR20B	1.100642416	0	0	-12.13092	CLRN2	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
PRR20A	1.100642416	0	0	-12.13092	OR4A4P	2.4894796	8.889381852	0.280050924	-1.836239	RNU7-119P	7.704496914	2.4894796	0.323120332	-1.629857
PCDHA1	1.100642416	0	0	-12.13092	ST13P3	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
LINC02898	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	PCP4L1	7.704496914	2.4894796	0.323120332	-1.629857
C11orf91	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	ARHGEF38-I	7.704496914	2.4894796	0.323120332	-1.629857
SLC10A5P1	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	PCDH10-DT	7.704496914	2.4894796	0.323120332	-1.629857
SPDYE2	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	TPTEP1	2.4894796	8.889381852	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
KU-MEL-3	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	8.889381852	0.280050924	-1.836239	MIR142HG	7.704496914	2.4894796	0.323120332	-1.629857
OR51A4	1.100642416	0	0	-12.13092	IGFALS	7.4684388	26.66814555	0.280050924	-1.836239	SETBP1-DT	7.704496914	2.4894796	0.323120332	-1.629857
MAPRE3-AS	1.100642416	0	0	-12.13092	SLC5A2	7.4684388	26.66814555	0.280050924	-1.836239	SRXN1	7.704496914	2.4894796	0.323120332	-1.629857
SERF1B	1.100642416	0	0	-12.13092	ITGAD	7.4684388	26.66814555	0.280050924	-1.836239	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
LINC01310	1.100642416	0	0	-12.13092	SYCE1	7.4684388	26.66814555	0.280050924	-1.836239	GCAWKR	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	RAMP1	287.9498071	1028.945949	0.279849303	-1.837278	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
CLEC6A	1.100642416	0	0	-12.13092	SEMA4B	356.8254093	1276.737468	0.27948221	-1.839172	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
FAM90A2P	1.100642416	0	0	-12.13092	SLC16A6	38.17202053	136.674246	0.279291978	-1.840154	OR1B1	7.704496914	2.4894796	0.323120332	-1.629857
C1RL-AS1	1.100642416	0	0	-12.13092	LRRC47	207.4566333	744.4857301	0.278657636	-1.843434	ENSG000002	7.704496914	2.4894796	0.323120332	-1.629857
ENSG000002	1.100642416	0	0	-12.13092	USP9Y	229.0321232	822.2678213	0.278537135	-1.844058	SELE	23.11349074	7.4684388	0.323120332	-1.629857
OR7E136P	1.100642416	0	0	-12.13092	TCF25	456.4045934	1638.979779	0.278468715	-1.844413	GTF2H2C	23.11349074	7.4684388	0.323120332	-1.629857
C21orf62-AS1	1.100642416	0	0	-12.13092	PDCL3P4	18.25618373	65.55919115	0.278468715	-1.844413	ZNF680	1319.670257	425.7010116	0.322581349	-1.632265
HSP90AA5P	1.100642416	0	0	-12.13092	FLG2	29.04392867	104.4502368	0.278064747	-1.846507	C9orf152	340.0985066	109.5371024	0.322074635	-1.634533
IFITM5	1.100642416	0	0	-12.13092	USP45	207.4566333	746.7080755	0.277828297	-1.847735	PER2	860.7023695	277.1620621	0.322018472	-1.634785
EGFEM1P	1.100642416	0	0	-12.13092	TRPC1	271.3532764	976.7208309	0.277820712	-1.847774	SH2D4A	195.9143501	63.06681654	0.321910143	-1.63527
RNU1-28P	1.100642416	0	0	-12.13092	PCDHGB2	87.96161254	316.6842285	0.277758109	-1.848099	ZNF671	90.25267814	29.04392867	0.321806835	-1.635733
RNU1-27P	1.100642416	0	0	-12.13092	ATP10A	69.7054288	251.1250373	0.277572597	-1.849063	NOS1	82.54818122	26.55444907	0.321684242	-1.636283
SNORA22B	1.100642416	0	0	-12.13092	NRAP	10.78774493	38.8910456	0.277383772	-1.850045	DEGS1	4540.149967	1459.664872	0.321501466	-1.637103
RNU6-946P	1.100642416	0	0	-12.13092	PKD1	1832.256986	6615.922443	0.276946564	-1.85232	MST1	67.13918739	21.57548987	0.321354647	-1.637762
RNU6-672P	1.100642416	0	0	-12.13092	SGMS2	153.5179087	554.475193	0.276870653	-1.852716	CIB1	387.4261305	124.47398	0.321284421	-1.638077
RNU6-1189P	1.100642416	0	0	-12.13092	PTPRT	1087.902585	3932.440297	0.276648214	-1.853875	ADA2	250.9464709	80.49317374	0.320758341	-1.640441
RNU1-109P	1.100642416	0	0	-12.13092	CHRDL2	16.59653067	60.0033275	0.276593505	-1.854161	KLF3	1288.852269	413.2536136	0.320636913	-1.640988
RNU1-11P	1.100642416	0	0	-12.13092	CDK11A	8.298265334	30.00166375	0.276593505	-1.854161	ARHGAP4	227.8329802	73.02473494	0.320518719	-1.641519
RNU6-1056P	1.100642416	0	0	-12.13092	ENSG000001	8.298265334	30.00166375	0.276593505	-1.854161	MS4A7	334.5952946	107.0476228	0.319931644	-1.644164
Y_RNA.73	1.100642416	0	0	-12.13092	RCN1P2	8.298265334	30.00166375	0.276593505	-1.854161	PPM1M	72.64239948	23.23514293	0.31985649	-1.644503
Y_RNA.74	1.100642416	0	0	-12.13092	PNPLA2	274.6725825	993.3884219	0.276500688	-1.854645	HOXA6	36.32119974	11.61757147	0.31985649	-1.644503
RNU6-10P	1.100642416	0	0	-12.13092	TEKT3	30.70358173	111.1172731	0.276316912	-1.855604	CCDC74B	36.32119974	11.61757147	0.31985649	-1.644503
SNORA5A	1.100642416	0	0	-12.13092	SIX5	104.5581432	378.9099014	0.275944605	-1.857549	CCDC178	36.32119974	11.61757147	0.31985649	-1.644503
RNU6-207P	1.100642416	0	0	-12.13092	WASF3	190.0302761	688.9270935	0.275835104	-1.858122	SQOR	108.9635992	34.8527144	0.31985649	-1.644503
RNU6-36P	1.100642416	0	0	-12.13092	ULK3	87.96161254	318.9065739	0.275822513	-1.858188	FAM174B	550.3212081	175.9232251	0.319673715	-1.645328
RNU6-1013P	1.100642416	0	0	-12.13092	LMOD1	37.342194	135.5630732	0.275459925	-1.860086	IGSF10	150.788011	48.12993894	0.319189428	-1.647515
Y_RNA.78	1.100642416	0	0	-12.13092	FBXO24	11.61757147	42.22456379	0.27513775	-1.861774	CDH11	2475.344794	789.9948598	0.319145382	-1.647714
RNU6-1316P	1.100642416	0	0	-12.13092	WFIKKN1	11.61757147	42.22456379	0.27513775	-1.861774	ZBTB7A	1412.12422	450.5958076	0.319090772	-1.647961
RNU6-474P	1.100642416	0	0	-12.13092	SPOCD1	11.61757147	42.22456379	0.27513775	-1.861774	TDRD12	28.61670282	9.128091867	0.318977764	-1.648472
RNU6-301P	1.100642416	0	0	-12.13092	AGAP9	52.2790716	190.0105371	0.27513775	-1.861774	ELN	528.3083598	168.4547863	0.318856939	-1.649019
RNU6-72P	1.100642416	0	0	-12.13092	MEP1A	5.808785734	21.1122819	0.27513775	-1.861774	JAZF1	356.6081429	113.6862351	0.318798764	-1.649282
RNU6-167P	1.100642416	0	0	-12.13092	SIGLECL1	5.808785734	21.1122819	0.27513775	-1.861774	DRAM1	184.9079259	58.91768387	0.31863255	-1.650034
RNU6-3P	1.100642416	0	0	-12.13092	SEMA6A-AS	5.808785734	21.1122819	0.27513775	-1.861774	CBR3	99.05781747	31.53340827	0.318333364	-1.65139
Y_RNA.80	1.100642416	0	0	-12.13092	GYPB	5.808785734	21.1122819	0.27513775	-1.861774	KCNC2	253.1477557	80.49317374	0.317969138	-1.653041
Y_RNA.82	1.100642416	0	0	-12.13092	UCP3	32.3632348	117.7843095	0.274766944	-1.86372	EEF1AKMT3	91.35332055	29.04392867	0.317929644	-1.653221
RNU6-185P	1.100642416	0	0	-12.13092	SLC8B1	121.1546739	441.1355744	0.27464272	-1.864372	USP20	407.237694	129.4529392	0.317880543	-1.653443
RNU1-67P	1.100642416	0	0	-12.13092	TSHZ3	780.0369414	2842.379847	0.274430929	-1.865485	IGFBP7	3586.993635	1140.181657	0.317865537	-1.653511
Y_RNA.88	1.100642416	0	0	-12.13092	SMAD3	251.4374396	916.7175034	0.274280178	-1.866278	DPY19L2	770.4496914	244.7988273	0.317734993	-1.654104

RNVU1-17	1.100642416	0	0	-12.13092	TBKBP1	42.3211532	154.4530097	0.274006659	-1.867717	ZNF658	237.7387619	75.51421454	0.317635265	-1.654557	
RNU6-540P	1.100642416	0	0	-12.13092	JCAD	528.5995018	1930.107035	0.273870564	-1.868434	RBMS3	384.1242033	121.9845004	0.317565255	-1.654875	
Y_RNA.90	1.100642416	0	0	-12.13092	SYNPO2L	9.128091867	33.33518194	0.27382757	-1.86866	ALDH8A1	41.82441182	13.27722453	0.317451554	-1.655392	
Y_RNA.94	1.100642416	0	0	-12.13092	ADAMTS10	92.1107452	336.6853376	0.273581101	-1.86996	ENSG000002	41.82441182	13.27722453	0.317451554	-1.655392	
Y_RNA.95	1.100642416	0	0	-12.13092	RB1	258.0760519	943.385649	0.273563682	-1.870051	EVI2A	20.91220591	6.638612267	0.317451554	-1.655392	
RNU6-813P	1.100642416	0	0	-12.13092	APLF	34.02288787	124.4513459	0.273383045	-1.871004	CXCL14	20.91220591	6.638612267	0.317451554	-1.655392	
SNORA80E	1.100642416	0	0	-12.13092	ARHGAP31	180.0723577	658.9254297	0.273281846	-1.871538	FAM13A-AS	75.94432672	24.06496947	0.316876461	-1.658008	
Y_RNA.99	1.100642416	0	0	-12.13092	TLE1	780.8667679	2857.936265	0.273227495	-1.871825	NTNG2	55.03212081	17.4263572	0.316657925	-1.659003	
MIR647	1.100642416	0	0	-12.13092	MIR497HG	12.447398	45.55808199	0.273220414	-1.871863	RBPMS2	144.1841565	45.64045934	0.316542819	-1.659527	
MIR606	1.100642416	0	0	-12.13092	FBXL8	31.53340827	115.5619641	0.272870131	-1.873714	FRMD4B	1166.680961	369.2728073	0.316515671	-1.659651	
MIR604	1.100642416	0	0	-12.13092	EOMES	15.76670413	57.78098203	0.272870131	-1.873714	BTBD2	1169.982889	370.1026339	0.316331664	-1.66049	
MIR186	1.100642416	0	0	-12.13092	FAM47E	15.76670413	57.78098203	0.272870131	-1.873714	ENSG000002	68.23982981	21.57548987	0.316171508	-1.661221	
MIR299	1.100642416	0	0	-12.13092	ENSG000002	15.76670413	57.78098203	0.272870131	-1.873714	MPP4	34.11991491	10.78774493	0.316171508	-1.661221	
MIR553	1.100642416	0	0	-12.13092	UNC13B	1632.268791	5990.332195	0.272483852	-1.875757	TYRO3P	34.11991491	10.78774493	0.316171508	-1.661221	
MIR532	1.100642416	0	0	-12.13092	TMEM63B	361.8043685	1327.851414	0.272473535	-1.875812	RNF180	469.9743118	148.5389495	0.316057592	-1.661741	
MIR328	1.100642416	0	0	-12.13092	USP53	553.4942978	2032.334926	0.272344037	-1.876498	HYI	162.8950776	51.44924507	0.315842847	-1.662721	
MIR431	1.100642416	0	0	-12.13092	FAM161B	112.8564085	414.4674288	0.272292587	-1.87677	TMOD4	81.44753881	25.72462253	0.315842847	-1.662721	
MIR643	1.100642416	0	0	-12.13092	SLC38A10	1108.648249	4079.115097	0.271786459	-1.879455	ITGAX	310.3811614	97.91953094	0.315481553	-1.664372	
MIR645	1.100642416	0	0	-12.13092	SPTA1	23.23514293	85.56030032	0.271564532	-1.880633	CCNG2	2194.680978	692.0753288	0.315342109	-1.66501	
MT-TV	1.100642416	0	0	-12.13092	ASIC4	6.638612267	24.44580009	0.271564532	-1.880633	CNOT4	2124.239863	669.6700124	0.315251598	-1.665424	
IGLV6-57	1.100642416	0	0	-12.13092	CRYBB3	6.638612267	24.44580009	0.271564532	-1.880633	HIC1	200.3169198	63.06681654	0.314835195	-1.667331	
IGLV7-43	1.100642416	0	0	-12.13092	MSTO2P	6.638612267	24.44580009	0.271564532	-1.880633	CBR3-AS1	205.8201318	64.7264696	0.314480751	-1.668956	
IGLV1-40	1.100642416	0	0	-12.13092	CLDN34	6.638612267	24.44580009	0.271564532	-1.880633	KLHDC7B	26.41541799	8.298265334	0.314144767	-1.670499	
TRGV1	1.100642416	0	0	-12.13092	ZMYND10	3.319306133	12.22290005	0.271564532	-1.880633	NME9	26.41541799	8.298265334	0.314144767	-1.670499	
TRBV6-1	1.100642416	0	0	-12.13092	PAX7	3.319306133	12.22290005	0.271564532	-1.880633	KCNU1	26.41541799	8.298265334	0.314144767	-1.670499	
TRBV7-1	1.100642416	0	0	-12.13092	CAMK2A	3.319306133	12.22290005	0.271564532	-1.880633	RPL21P16	26.41541799	8.298265334	0.314144767	-1.670499	
TRBV5-3	1.100642416	0	0	-12.13092	SLC26A3	3.319306133	12.22290005	0.271564532	-1.880633	POLDIP3	13.207709	4.149132667	0.314144767	-1.670499	
TRBJ2-7	1.100642416	0	0	-12.13092	TGM5	3.319306133	12.22290005	0.271564532	-1.880633	GUCY2D	13.207709	4.149132667	0.314144767	-1.670499	
TRAV10	1.100642416	0	0	-12.13092	AIPL1	3.319306133	12.22290005	0.271564532	-1.880633	SLC19A3	13.207709	4.149132667	0.314144767	-1.670499	
TRAV9-2	1.100642416	0	0	-12.13092	ASB5	3.319306133	12.22290005	0.271564532	-1.880633	DCC	13.207709	4.149132667	0.314144767	-1.670499	
TRAV24	1.100642416	0	0	-12.13092	MS4A15	3.319306133	12.22290005	0.271564532	-1.880633	ENSG000002	13.207709	4.149132667	0.314144767	-1.670499	
TRAV26-2	1.100642416	0	0	-12.13092	MYOZ2	3.319306133	12.22290005	0.271564532	-1.880633	CHMP4BP1	13.207709	4.149132667	0.314144767	-1.670499	
TRAV36DV7	1.100642416	0	0	-12.13092	OR6C68	3.319306133	12.22290005	0.271564532	-1.880633	ENSG000002	13.207709	4.149132667	0.314144767	-1.670499	
TRDC	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	12.22290005	0.271564532	-1.880633	ENSG000002	13.207709	4.149132667	0.314144767	-1.670499	
TRAJ59	1.100642416	0	0	-12.13092	IFITM10	3.319306133	12.22290005	0.271564532	-1.880633	ENSG000002	13.207709	4.149132667	0.314144767	-1.670499	
TRAJ47	1.100642416	0	0	-12.13092	NR2E3	3.319306133	12.22290005	0.271564532	-1.880633	PMS2P3	13.207709	4.149132667	0.314144767	-1.670499	
IGHV1-2	1.100642416	0	0	-12.13092	GLIPR1L2	16.59653067	61.11450023	0.271564532	-1.880633	QKI	956.4582598	300.3972051	0.314072467	-1.670831	
IGHV1-3	1.100642416	0	0	-12.13092	GNA15	9.9579184	36.66870014	0.271564532	-1.880633	SPEF2	578.937911	181.7320108	0.313905874	-1.671596	
IGHV2-5	1.100642416	0	0	-12.13092	SLC45A2	9.9579184	36.66870014	0.271564532	-1.880633	LGALS3	708.8137161	222.3935109	0.313754525	-1.672292	
MIR550A3	1.100642416	0	0	-12.13092	PPA2	570.0908284	2100.116462	0.271456769	-1.881206	PAPPA	177.203429	55.59837774	0.313754525	-1.672292	
TAS2R15P	1.100642416	0	0	-12.13092	AGFG2	63.89664307	235.5686191	0.271244291	-1.882335	SYNGR1	137.580302	43.15097974	0.313642136	-1.672809	
TAS2R50	1.100642416	0	0	-12.13092	AP2A2	57.2580308	211.122819	0.27120721	-1.882533	FAM110B	111.164884	34.8527144	0.313522698	-1.673358	
RNU1-77P	1.100642416	0	0	-12.13092	IL17RD	107.8774493	397.7998379	0.271185252	-1.882649	ZDHHC14	770.4496914	241.4795212	0.313426722	-1.6738	
RNU6-1321P	1.100642416	0	0	-12.13092	NLGN3	74.684388	275.5708374	0.271017023	-1.883545	PID1	220.1284833	68.87560227	0.312888188	-1.676281	
RNU6-750P	1.100642416	0	0	-12.13092	RSRP1	560.9627366	2071.225971	0.270836087	-1.884508	TLL1	90.25267814	28.21410213	0.312612354	-1.677553	
RNU6-788P	1.100642416	0	0	-12.13092	MAN1A1	216.5847252	800.0443666	0.270715893	-1.885149	CLK4	642.7751711	200.8180211	0.312423426	-1.678425	
SNORD72	1.100642416	0	0	-12.13092	DENND1B	326.9516541	1207.844759	0.270690129	-1.885286	RPL10P16	154.0899383	48.12993894	0.312349654	-1.678766	
ENSG000002	1.100642416	0	0	-12.13092	RALGAPA2	2634.699243	9734.9843	0.270642372	-1.88554	AHSA2P	659.2848074	205.7969803	0.312151862	-1.67968	
Y_RNA.100	1.100642416	0	0	-12.13092	NAV3	252.2672661	932.2739217	0.270593503	-1.885801	HRCT1	63.83726015	19.9158368	0.311978252	-1.680483	
RNU6-1228P	1.100642416	0	0	-12.13092	GRTP1	79.6633472	294.4607738	0.27053976	-1.886087	STX5-DT	31.91863007	9.9579184	0.311978252	-1.680483	
RNU6-482P	1.100642416	0	0	-12.13092	LRCH4	115.3458881	426.6903289	0.270326933	-1.887223	ARHGAP9	146.3854414	45.64045934	0.311782776	-1.681387	
RNU6-1275P	1.100642416	0	0	-12.13092	DNASE1L1	77.1738676	285.571392	0.270243693	-1.887667	OSBPL5	439.1563241	136.921378	0.311782776	-1.681387	
SNORD115	1.100642416	0	0	-12.13092	C1S	633.157645	2343.463291	0.270180313	-1.888006	SLAMF8	82.54818122	25.72462253	0.311631609	-1.682087	
SNORA75	1.100642416	0	0	-12.13092	PTK7	1148.479922	4251.34687	0.270144958	-1.888194	SLC6A9	101.2591023	31.53340827	0.311413074	-1.683099	
U3.3	1.100642416	0	0	-12.13092	ACRBP	39.00184707	144.4524551	0.269997814	-1.88898	SLCO2A1	472.1755966	146.8792964	0.311069224	-1.684692	
RNA5SP299	1.100642416	0	0	-12.13092	CCDC92	24.894796	92.22733671	0.269928601	-1.88935	A4GALT	352.2055732	109.5371024	0.311003319	-1.684998	
RNA5SP354	1.100642416	0	0	-12.13092	CIRBP	899.5319622	3333.518194	0.269844624	-1.889799	LPCAT3	1044.509653	324.4621745	0.310635879	-1.686704	
RNU1-78P	1.100642416	0	0	-12.13092	AMIGO2	496.236267	1838.990871	0.269841615	-1.889815	CFAP90	37.42184215	11.61757147	0.310448946	-1.687572	
RNA5SP525	1.100642416	0	0	-12.13092	NOS3	43.15097974	160.0088733	0.269678667	-1.890687	ARHGEF26	18.71092108	5.808785734	0.310448946	-1.687572	
OR2A42	1.100642416	0	0	-12.13092	ARPC1B	10.78774493	40.00221833	0.269678667	-1.890687	SYCP3	18.71092108	5.808785734	0.310448946	-1.687572	
KRTAP3-3	1.100642416	0	0	-12.13092	P2RY6	10.78774493	40.00221833	0.269678667	-1.890687	C16orf74	18.71092108	5.808785734	0.310448946	-1.687572	
CGB8	1.100642416	0	0	-12.13092	DNPEP	409.1044809	1517.861951	0.269526804	-1.891499	CD1D	18.71092108	5.808785734	0.310448946	-1.687572	
EEF1B2P7	1.100642416	0	0	-12.13092	PIGQ	277.1620621	1028.945949	0.269365035	-1.892365	UTS2B	18.71092108	5.808785734	0.310448946	-1.687572	
ENSG000002	1.100642416	0	0	-12.13092	DACH2	14.9368776	55.55863657	0.268848887	-1.895133	ENSG000002	18.71092108	5.808785734	0.310448946	-1.687572	
ENSG000002	1.100642416	0	0	-12.13092	VWA3B	14.9368776	55.55863657	0.268848887	-1.895133	MINDY2	845.2933757	262.2251845	0.310217958	-1.688646	
ENSG000002	1.100642416	0	0	-12.13092	CNTNAP3	7.4684388	27.77931829	0.268848887	-1.895133	ZBTB42	211.3233439	65.55629614	0.310217958	-1.688646	
RPL31P11	1.100642416	0	0	-12.13092	ENSG000002	7.4684388	27.77931829	0.268848887	-1.895133	GRID1	141.9828717	43.98080627	0.309761352	-1.690771	
ENSG000002	1.100642416	0	0	-12.13092	PTDSS2	34.02288787	126.6736914	0.268586851	-1.896539	PTGER4	61.63597531	19.08601027	0.309656985	-1.691257	
PPP1R14BP2	1.100642416	0	0	-12.13092	CGREF1	26.55444907	98.8943731	0.268513245	-1.896935	HRH1	61.63597531	19.08601027	0.309656985	-1.691257	
PPP1R14BP5	1.100642416	0	0	-12.13092	NSG1	64.7264696	241.1244827	0.268435909	-1.89735	DYNC2I1	702.2098616	217.4145517	0.30961478	-1.691454	
ENSG000002	1.100642416	0	0	-12.13092	ERICH6	19.08601027	71.11505481	0.268382135	-1.897639	NRIP1	3731.177791	1154.288708	0.309363095	-1.692627	
CRIP1	1.100642416	0	0	-12.13092	ZNF547	23.23514293	86.67147305	0.268082936	-1.899249	TLR1	343.4004339	106.2177963	0.309311771	-1.692866	
GAPDHP36	1.100642416	0	0	-12.13092	PTPRQ	11.61757147	43.33573653	0.268082936	-1.899249	FCN1	85.85010847	26.55444907	0.309311771	-1.692866	
RPL8P4	1.100642416	0	0	-12.13092	ENSG000002	11.61757147	43.33573653	0.268082936	-1.899249	ENSG000002	42.92505424	13.27722453	0.309311771	-1.692866	
STRADBP1	1.100642416	0	0	-12.13092	ASB13	54.7685512	204.4557826	0.267874797	-1.900369	IGIP	91.35332055	28.21410213	0.30884594	-1.695041	
NIP7P2	1.100642416	0	0	-12.13092	USP19	282.1410213	1053.391749	0.267840546	-1.900554	MYO1F	545.9186385	168.4547863	0.308571231	-1.696325	
RPS6P26	1.100642416	0	0	-12.13092	TMEM134	70.53525534	263.3479374	0.267840546	-1.900554	SCRN1	1011.490381	312.0147765	0.308470335	-1.696796	
ATF4P1	1.100642416	0	0	-12.13092	AGMO	15.76670413	58.89215477	0.267721638	-1.901194	CDH26	48.42826632	14.9368776	0.308433044	-1.696971	
RPL21P18	1.100642416	0	0	-12.13092	SSC5D	161.816174	604.4779659	0.267695736	-1.901334	FAM107A	48.42826632	14.9368776	0.308433044	-1.696971	
PP1P	1.100642416	0	0	-12.13092	TBX15	126.9634596	474.4707563	0.267589642	-1.901906	TACR1	24.21413316	7.4684388	0.308433044	-1.696971	
RPS2P17	1.100642416	0	0	-12.13092	IL4R	238.1602151	890.0493579	0.267580908	-1.901953	MBNL1-AS1	24.21413316	7.4684388	0.308433044	-1.696971	
HNRNPA1P3	1.100642416	0	0	-12.13092	FZD4	321.9726949	1203.400068	0.267552499	-1.902106	HLF	175.0021442	53.93872467	0.308217507	-1.697979	
PVRIG	1.100642416	0	0	-12.13092	SIGLEC10	52.2790716	195.5664007	0.267321336	-1.903353	MUC17	102.3597447	31.53340827	0.308064546	-1.698695	
RPL7AP17	1.100642416	0	0	-12.13092	ELOVL1	105.3879697	394.4663197	0.267165952	-1.904192	CAMK4	264.1541799	81.32300027	0.307861872	-1.699645	
KRT222	1.100642416	0	0	-12.13092	GPR37	117.8353677	441.1355744	0.267118262	-1.904449	CLDN3	2824.24844	867.9985539	0.307337889	-1.702102	
ABRAXAS1F	1.100642416	0	0	-12.13092	PGGHG	78.00369414	292.2384284	0.266917991	-1.905532	TTN	5248.963683	1612.352954	0.307175483	-1.702865	
RPLP1P6	1.100642416	0	0	-12.13092	TNIP2	86.30195947	323.3512648	0.266898475	-1.905637	AGFG2	208.0214167	63.89664307	0.307163772	-1.70292	
HMGB1P37	1.100642416	0	0	-12.13092	IFI35	29.04392867	108.8949277	0.266715166	-1.906628	MLKL	118.869381	36.51236747	0.307163772	-1.70292	
FBLIM1P1	1.100642416	0	0	-12.13092	NPC1L1	12.447398	46.66925472	0.266715166	-1.906628	DPEP2	59.43469048	18.25618373	0.307163772	-1.70292	
RPL36P7	1.100642416	0	0	-12.13092	ENSG000002	12.447398	46.66925472	0.266715166	-1.906628	EFNA4	59.43469048	18.25618373	0.307163772	-1.70292	
RAC1P5	1.100642416	0	0	-12.13092	MAGEC2	8.298265334	31.11283648	0.266715166	-1.906628	SPATA25	29.71734524	9.128091867	0.307163772	-1.70292	
RPL7AP43	1.100642416	0	0	-12.13092	CCR5	8.298265334	31.11283648	0.266715166	-1.906628	APBB1IP	213.5246288	65.55629614	0.307019834	-1.703596	
HNRNPA1P1	1.100642416	0	0	-12.13092	IL15	8.298265334	31.11283648	0.266715166	-1.906628	AHCYL2	497.4903722	152.6880821	0.306916657	-1.704081	
ENSG000002	1.100642416	0	0	-12.13092	ORAI3	8.298265334	31.11283648	0.266715166	-1.906628	ENSG000002	35.22055732	10.78774493	0.306291148	-1.707024	
NDUFS3	1.100642416	0	0	-12.13092	KRT36	4.149132667	15.55641824	0.266715166	-1.906628	ENSG000002	75.94432672	23.23514293	0.305949686	-1.708634	
SAPCD2P1	1.100642416	0	0	-12.13092	GLRA1	4.149132667	15.55641824	0.266715166	-1.906628	MYO15B	779.2548307	238.1602151	0.305625587	-1.710163	
HMGB3P30	1.100642416	0	0	-12.13092	IZUMO2	4.149132667	15.55641824	0.266715166	-1.906628	ARHGDIB	877.2120058	268.0339703	0.3055521	-1.71051	
GPSM3	1.100642416	0	0	-12.13092	ABCG4	4.149132667	15.55641824	0.266715166	-1.906628	KMT2E	13675.48202	4176.516942	0.305401809	-1.711219	
RSU1P3	1.100642416	0	0	-12.13092	GALR2	4.149132667	15.55641824	0.266715166	-1.906628	PTCHD1	92.45396297	28.21410213	0.305169202	-1.712319	
PHB1P7	1.100642416	0	0	-12.13092	MEI4	4.149132667	15.55641824	0.266715166	-1.906628	STYXL1	293.8715252	89.6212656	0.304967504	-1.713273	
FAM209B	1.100642416	0	0	-12.13092	ANAPC2	271.3532764	1017.834222	0.266598696	-1.907258	PTPRC	822.179885	250.6076131	0.304808738	-1.714024	

POLD2P1	1.100642416	0	0	-12.13092	KCNQ1	85.47213294	321.1289194	0.266161432	-1.909627	BTN3A2	206.9207743	63.06681654	0.304787263	-1.714125
BRI3P2	1.100642416	0	0	-12.13092	CCN2	404.1255217	1518.973124	0.266051792	-1.910221	HLA-DRB5	1031.301944	313.6744296	0.304153824	-1.717127
KPNA4P1	1.100642416	0	0	-12.13092	CYB561D2	17.4263572	65.55919115	0.265811046	-1.911527	KCND3	1418.728075	431.5097974	0.304152575	-1.717133
RPS3AP20	1.100642416	0	0	-12.13092	LYVE1	157.6670413	593.3662386	0.265716232	-1.912042	SCO2	68.23982981	20.74566333	0.304011065	-1.717804
CNN2P6	1.100642416	0	0	-12.13092	IRF5	30.70358173	115.5619641	0.265689338	-1.912188	CBX7	210.2227015	63.89664307	0.303947398	-1.718106
RPL32P11	1.100642416	0	0	-12.13092	ENSG000002	13.27722453	50.00277291	0.265529765	-1.913055	LPP	4941.884449	1501.156199	0.303761898	-1.718987
PPIAP86	1.100642416	0	0	-12.13092	ENSG000002	13.27722453	50.00277291	0.265529765	-1.913055	TGFB2	538.2141416	163.4758271	0.303737517	-1.719103
RPL7AP64	1.100642416	0	0	-12.13092	CHST15	288.7796336	1087.838104	0.265461958	-1.913423	RAPGEF3	79.24625397	24.06496947	0.303673275	-1.719408
LINC01521	1.100642416	0	0	-12.13092	APBA3	137.7512045	518.9176656	0.265458692	-1.913441	SPTBN2	2695.473278	818.2089619	0.303549276	-1.719997
RPL22P16	1.100642416	0	0	-12.13092	PRSS36	18.25618373	68.89270935	0.264994423	-1.915966	PLEKHA6	725.3233523	219.9040313	0.303180686	-1.72175
CHCHD4P4	1.100642416	0	0	-12.13092	B4GALNT2	9.128091867	34.44635467	0.264994423	-1.915966	CA5B	238.8394043	72.1949084	0.302273859	-1.726072
PGAM1P4	1.100642416	0	0	-12.13092	OR2L3	9.128091867	34.44635467	0.264994423	-1.915966	ARHGAP8	38.52248457	11.61757147	0.301578976	-1.729392
LINC02347	1.100642416	0	0	-12.13092	MIA3	2086.183905	7888.21522	0.264468431	-1.918833	AMPD3	363.2119974	109.5371024	0.301578976	-1.729392
UCA1	1.100642416	0	0	-12.13092	SLC15A2	66.38612267	251.1250373	0.264354854	-1.919452	SMAD7	203.618847	61.40716347	0.301578976	-1.729392
RPL21P17	1.100642416	0	0	-12.13092	XIRP2	19.08601027	72.22622754	0.264253179	-1.920007	STARD5	66.03854498	19.9158368	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	PRPH2	14.9368776	56.6698093	0.26357734	-1.923702	F2RL3	33.01927249	9.9579184	0.301578976	-1.729392
TMEM213	1.100642416	0	0	-12.13092	STARD5	19.9158368	75.55974574	0.26357734	-1.923702	NME8	16.50963624	4.9789592	0.301578976	-1.729392
NGRNP1	1.100642416	0	0	-12.13092	NPAS1	4.9789592	18.88993643	0.26357734	-1.923702	CKM	16.50963624	4.9789592	0.301578976	-1.729392
IQCJ	1.100642416	0	0	-12.13092	ETNPPL	4.9789592	18.88993643	0.26357734	-1.923702	FCRL1	16.50963624	4.9789592	0.301578976	-1.729392
CTAGE11P	1.100642416	0	0	-12.13092	FBXL21P	4.9789592	18.88993643	0.26357734	-1.923702	ADAD1	16.50963624	4.9789592	0.301578976	-1.729392
AZGP1P2	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	18.88993643	0.26357734	-1.923702	LVRN	16.50963624	4.9789592	0.301578976	-1.729392
ANKRD36BP	1.100642416	0	0	-12.13092	INAFM1	30.70358173	116.6731368	0.263158963	-1.925994	ZBED6	16.50963624	4.9789592	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	BORCS6	56.42820427	214.4563372	0.263122112	-1.926196	KIAA0513	154.0899383	46.47028587	0.301578976	-1.729392
DTWD1P1	1.100642416	0	0	-12.13092	LEPR	1262.166157	4798.043854	0.263058487	-1.926544	ENSG000001	22.01284833	6.638612267	0.301578976	-1.729392
PDCL3P3	1.100642416	0	0	-12.13092	CCDC141	73.02473494	277.7931829	0.262874467	-1.927554	SCN1A-AS1	22.01284833	6.638612267	0.301578976	-1.729392
CXADRP1	1.100642416	0	0	-12.13092	PAPLN	146.8792964	558.9198839	0.262791324	-1.92801	ENSG000002	22.01284833	6.638612267	0.301578976	-1.729392
CBX1P4	1.100642416	0	0	-12.13092	TNFRSF10B	53.10889814	202.2334371	0.262611855	-1.928996	C8B	11.00642416	3.319306133	0.301578976	-1.729392
CTAGE16P	1.100642416	0	0	-12.13092	FHIP2B	160.1565209	610.0338296	0.262537114	-1.929407	NOX3	11.00642416	3.319306133	0.301578976	-1.729392
SOGA3	1.100642416	0	0	-12.13092	RIN2	214.0952456	815.6007849	0.262500049	-1.92961	SCNN1D	11.00642416	3.319306133	0.301578976	-1.729392
ATP5PBP2	1.100642416	0	0	-12.13092	FBN2	69.7054288	265.5702828	0.262474506	-1.929751	CYP4Z1	11.00642416	3.319306133	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	ETV7	10.78774493	41.11339106	0.262390055	-1.930215	DNM3OS	11.00642416	3.319306133	0.301578976	-1.729392
PAFAH1B1P1	1.100642416	0	0	-12.13092	SLC7A9	10.78774493	41.11339106	0.262390055	-1.930215	ENSG000002	11.00642416	3.319306133	0.301578976	-1.729392
RPL18P10	1.100642416	0	0	-12.13092	ZCCHC24	129.4529392	493.3606928	0.262390055	-1.930215	ENSG000002	11.00642416	3.319306133	0.301578976	-1.729392
EIF4EP5	1.100642416	0	0	-12.13092	CACNB2	107.8774493	411.1339106	0.262390055	-1.930215	ENSG000002	11.00642416	3.319306133	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	NLRX1	62.23699	237.7909645	0.261729835	-1.93385	ENSG000002	11.00642416	3.319306133	0.301578976	-1.729392
RPL6P12	1.100642416	0	0	-12.13092	RIMS1	120.3248473	460.0255108	0.261561249	-1.934779	HDAC10	5.503212081	1.659653067	0.301578976	-1.729392
LINC01913	1.100642416	0	0	-12.13092	GIPR	11.61757147	44.44690926	0.261380862	-1.935775	CLEC4A	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC26A9	11.61757147	44.44690926	0.261380862	-1.935775	CCN6	5.503212081	1.659653067	0.301578976	-1.729392
RPL5P35	1.100642416	0	0	-12.13092	AQP7P1	11.61757147	44.44690926	0.261380862	-1.935775	HRG	5.503212081	1.659653067	0.301578976	-1.729392
KRT18P42	1.100642416	0	0	-12.13092	PLCD3	110.3669289	422.2456379	0.261380862	-1.935775	GRK7	5.503212081	1.659653067	0.301578976	-1.729392
RPL23AP6	1.100642416	0	0	-12.13092	KIAA0513	46.47028587	177.787637	0.261380862	-1.935775	GCG	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	GCKR	5.808785734	22.22345463	0.261380862	-1.935775	INO80B	5.503212081	1.659653067	0.301578976	-1.729392
DNAJA1P3	1.100642416	0	0	-12.13092	GHRHR	5.808785734	22.22345463	0.261380862	-1.935775	NPHS2	5.503212081	1.659653067	0.301578976	-1.729392
DSTNP4	1.100642416	0	0	-12.13092	FAM124B	5.808785734	22.22345463	0.261380862	-1.935775	PROZ	5.503212081	1.659653067	0.301578976	-1.729392
XRCC6P5	1.100642416	0	0	-12.13092	RRAD	5.808785734	22.22345463	0.261380862	-1.935775	SLC26A10P	5.503212081	1.659653067	0.301578976	-1.729392
MSMP	1.100642416	0	0	-12.13092	FAM83B	5.808785734	22.22345463	0.261380862	-1.935775	ALDOB	5.503212081	1.659653067	0.301578976	-1.729392
UBE2QL1	1.100642416	0	0	-12.13092	ENSG000002	5.808785734	22.22345463	0.261380862	-1.935775	TTPA	5.503212081	1.659653067	0.301578976	-1.729392
CYP51A1P3	1.100642416	0	0	-12.13092	POLR2MP1	5.808785734	22.22345463	0.261380862	-1.935775	NXPE4	5.503212081	1.659653067	0.301578976	-1.729392
LINC01020	1.100642416	0	0	-12.13092	PCDHGC3	189.2004496	724.4846209	0.261151782	-1.93704	CYLC2	5.503212081	1.659653067	0.301578976	-1.729392
LINC02982	1.100642416	0	0	-12.13092	HS3ST2	35.68254093	136.674246	0.261077284	-1.937451	ADH6	5.503212081	1.659653067	0.301578976	-1.729392
RPL10AP3	1.100642416	0	0	-12.13092	NFKB2	126.1336331	483.3601382	0.260951665	-1.938145	OR56B1	5.503212081	1.659653067	0.301578976	-1.729392
WHAMMP4	1.100642416	0	0	-12.13092	ECHDC2	364.2938481	1397.855296	0.260609127	-1.94004	OGFRP1	5.503212081	1.659653067	0.301578976	-1.729392
ZNF705CP	1.100642416	0	0	-12.13092	ITGA10	260.5655315	1000.055458	0.260551082	-1.940362	MFSD6L	5.503212081	1.659653067	0.301578976	-1.729392
ZNF705G	1.100642416	0	0	-12.13092	IGSF9B	57.2580308	220.0122008	0.260249343	-1.942034	TMCO2	5.503212081	1.659653067	0.301578976	-1.729392
ZNF663P	1.100642416	0	0	-12.13092	RHBDF2	140.2406841	538.9187747	0.260226013	-1.942163	LIPI	5.503212081	1.659653067	0.301578976	-1.729392
KRTAP10-1	1.100642416	0	0	-12.13092	SLC12A9	96.25987787	370.0205196	0.260147405	-1.942599	ZNF734P	5.503212081	1.659653067	0.301578976	-1.729392
TPTE2P4	1.100642416	0	0	-12.13092	ABCB1	39.00184707	150.0083187	0.259997895	-1.943428	GPX6	5.503212081	1.659653067	0.301578976	-1.729392
DEFB116	1.100642416	0	0	-12.13092	MIGA2	105.3879697	405.578047	0.259846337	-1.944269	LINC01270	5.503212081	1.659653067	0.301578976	-1.729392
DEFB115	1.100642416	0	0	-12.13092	ALDH8A1	13.27722453	51.11394565	0.259757379	-1.944763	TMEM225	5.503212081	1.659653067	0.301578976	-1.729392
ZNF962P	1.100642416	0	0	-12.13092	RAB43P1	13.27722453	51.11394565	0.259757379	-1.944763	CCNI2	5.503212081	1.659653067	0.301578976	-1.729392
HMX1	1.100642416	0	0	-12.13092	VSIG2	6.638612267	25.55697282	0.259757379	-1.944763	MT-TY	5.503212081	1.659653067	0.301578976	-1.729392
RSC1A1	1.100642416	0	0	-12.13092	GAL3ST1	6.638612267	25.55697282	0.259757379	-1.944763	SPINK13	5.503212081	1.659653067	0.301578976	-1.729392
QRSL1P1	1.100642416	0	0	-12.13092	ABCG8	6.638612267	25.55697282	0.259757379	-1.944763	ESRRAP1	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	FAM151B	6.638612267	25.55697282	0.259757379	-1.944763	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
BRWD1P1	1.100642416	0	0	-12.13092	RPL13P12	6.638612267	25.55697282	0.259757379	-1.944763	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
MMP23A	1.100642416	0	0	-12.13092	PPIEL.1	19.9158368	76.67091847	0.259757379	-1.944763	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
MIR873	1.100642416	0	0	-12.13092	ARHGAP45	73.85456147	284.4602192	0.259630544	-1.945468	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
MIR513C	1.100642416	0	0	-12.13092	AKAP12	370.1026339	1425.634614	0.259605533	-1.945607	EIF4A2P2	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	TSC22D4	82.1528268	316.6842285	0.259415593	-1.946663	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	POMGNT1	628.1786858	2424.5789	0.259087747	-1.948487	TMBIM7P	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	CMTM8	64.7264696	250.0138646	0.258891521	-1.94958	LINC02613	5.503212081	1.659653067	0.301578976	-1.729392
RPL21P68	1.100642416	0	0	-12.13092	RABEP2	158.4968679	612.256175	0.258873449	-1.949681	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
NUDT19P3	1.100642416	0	0	-12.13092	EEPD1	94.6002248	365.5758286	0.258770459	-1.950255	UPF3AP3	5.503212081	1.659653067	0.301578976	-1.729392
R3HDM2P2	1.100642416	0	0	-12.13092	CRYL1	81.32300027	314.461883	0.25861004	-1.95115	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
FGF7P4	1.100642416	0	0	-12.13092	SLC26A8	7.4684388	28.89049102	0.258508545	-1.951716	RNF223	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC12A2	878.7862988	3401.299731	0.258367791	-1.952502	LINC01358	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	ANXA1	321.1428684	1243.402286	0.258277528	-1.953006	GMCL2	5.503212081	1.659653067	0.301578976	-1.729392
GSTA12P	1.100642416	0	0	-12.13092	MAP3K12	30.70358173	118.8954823	0.258240104	-1.953215	SIAH2-AS1	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	LCN2	8.298265334	32.22400921	0.257518091	-1.957254	SLCO5A1-AS	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	ABCC2	25.72462253	100.0055458	0.25723196	-1.958858	PRODH2	5.503212081	1.659653067	0.301578976	-1.729392
HMGB1P17	1.100642416	0	0	-12.13092	TJP1	120.3248473	467.8037199	0.25721225	-1.958969	CTDNEP1P2	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	TDRD12	9.128091867	35.55752741	0.256713347	-1.96177	TRIM77BP	5.503212081	1.659653067	0.301578976	-1.729392
RPS16P5	1.100642416	0	0	-12.13092	SYNGR2	310.3551235	1210.067105	0.256477614	-1.963095	CARD18	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	EML3	263.8848376	1028.945949	0.256461321	-1.963187	HSPA8P5	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	CPA4	9.9579184	38.8910456	0.256046559	-1.965522	ARHGEF17-/	5.503212081	1.659653067	0.301578976	-1.729392
SEPTIN14P6	1.100642416	0	0	-12.13092	PRDX1	769.2491964	3007.944584	0.255739152	-1.967255	OR11H12	5.503212081	1.659653067	0.301578976	-1.729392
THAP12P5	1.100642416	0	0	-12.13092	ZFYVE28	88.79143907	347.7970649	0.255296689	-1.969753	HLX-AS1	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	JAK3	34.02288787	133.3407278	0.255157508	-1.97054	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
TATDN2P2	1.100642416	0	0	-12.13092	MS4A14	23.23514293	91.11616398	0.255005719	-1.971398	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
RPS27P15	1.100642416	0	0	-12.13092	SLC9A7	367.6131543	1442.302205	0.254879423	-1.972113	MRPL15P1	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	CSMD1	12.447398	48.89160018	0.254591749	-1.973742	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
GSTM2P1	1.100642416	0	0	-12.13092	ODF2L	705.3525534	2772.375965	0.254421681	-1.974706	KCNJ2-AS1	5.503212081	1.659653067	0.301578976	-1.729392
CCNG1P1	1.100642416	0	0	-12.13092	ENC1	796.633472	3133.507103	0.254230626	-1.97579	VSIG10L-AS	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	VPS9D1	79.6633472	313.3507103	0.254230626	-1.97579	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
NPM1P37	1.100642416	0	0	-12.13092	TTLL10	13.27722453	52.22511838	0.254230626	-1.97579	LINC02560	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	FLYWCH1	167.6249597	660.0366025	0.253963127	-1.977309	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
CACYBPP3	1.100642416	0	0	-12.13092	OSMR	280.4813683	1104.505695	0.25394289	-1.977424	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
OR2E1P	1.100642416	0	0	-12.13092	ITGA5	231.5216028	912.2728125	0.25378549	-1.978319	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	DNHD1	208.2864599	821.1566485	0.253650093	-1.979088	OR1S1	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	GPER1	14.9368776	58.89215477	0.253631025	-1.979197	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
ZNF299P	1.100642416	0	0	-12.13092	PTPRF	2067.927721	8156.007849	0.253546558	-1.979677	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392

HSPA8P15	1.100642416	0	0	-12.13092	ENSG00000(	15.76670413	62.22567296	0.253379407	-1.980629	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
TPT1P8	1.100642416	0	0	-12.13092	FBXW10B	15.76670413	62.22567296	0.253379407	-1.980629	ENSG000002	5.503212081	1.659653067	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	MTARC2	32.3632348	127.7848641	0.253263444	-1.981289	FLT3	49.52890873	14.9368776	0.301578976	-1.729392
ENSG000002	1.100642416	0	0	-12.13092	SGSM1	98.74935747	390.0216287	0.253189439	-1.981711	NOP9	49.52890873	14.9368776	0.301578976	-1.729392
VN1R11P	1.100642416	0	0	-12.13092	CCDC50	432.3396239	1707.872488	0.253145142	-1.981963	MXRA7P1	27.51606041	8.298265334	0.301578976	-1.729392
OSTCP6	1.100642416	0	0	-12.13092	NHLRC1	41.49132667	164.4535643	0.25229813	-1.986799	STOM	1343.88439	404.9553483	0.301331983	-1.730574
BRK1P1	1.100642416	0	0	-12.13092	CTSF	470.5116444	1868.992534	0.251746134	-1.989958	PARM1	1178.788028	355.1657563	0.30129739	-1.73074
ENSG000002	1.100642416	0	0	-12.13092	GJA1	179.2425312	712.2617209	0.251652624	-1.990494	DOCK2	749.5374855	225.7128171	0.301136129	-1.731512
ASS1P1	1.100642416	0	0	-12.13092	SLC4A3	92.94057174	370.0205196	0.251176805	-1.993225	MVP	501.8929418	151.0284291	0.300917619	-1.73256
HMGB1P13	1.100642416	0	0	-12.13092	ARSA	102.8984901	411.1339106	0.250279745	-1.998387	MAST4	2060.402603	619.8804204	0.300854027	-1.732864
ENSG000002	1.100642416	0	0	-12.13092	BDH2	65.55629614	262.2367646	0.24998896	-2.000064	TOM1	446.860821	134.4318984	0.300836171	-1.73295
RPL21P119	1.100642416	0	0	-12.13092	ST3GAL1	110.3669289	442.2467471	0.249559617	-2.002544	TTC6	3143.434741	945.1724215	0.30068142	-1.733692
RNU6ATAC(	1.100642416	0	0	-12.13092	CIB1	124.47398	498.9165564	0.249488574	-2.002954	COL5A1	2633.837302	791.6545128	0.300570773	-1.734223
RNU6ATAC2	1.100642416	0	0	-12.13092	ZSCAN18	220.7338579	885.604667	0.249246494	-2.004355	IGF1R	1253.631712	376.7412461	0.300519876	-1.734468
MIR548L	1.100642416	0	0	-12.13092	HDAC7	256.4163988	1030.057122	0.248934155	-2.006164	GJA1	596.5481896	179.2425312	0.300466139	-1.734726
SNORA79	1.100642416	0	0	-12.13092	AMPD1	11.61757147	46.66925472	0.248934155	-2.006164	SLPI	107.8629568	32.3632348	0.300040308	-1.736772
MIR1288	1.100642416	0	0	-12.13092	FAM131B-A	21.57548987	86.67147305	0.248934155	-2.006164	EPB41L2	1999.86727	599.1347571	0.299587261	-1.738952
MIR1265	1.100642416	0	0	-12.13092	MMP21	10.78774493	43.33573653	0.248934155	-2.006164	DPYD	573.4346989	171.7740924	0.299553014	-1.739117
MIR320B2	1.100642416	0	0	-12.13092	MUC5B-AS1	10.78774493	43.33573653	0.248934155	-2.006164	GSAP	293.8715252	87.96161254	0.299319958	-1.74024
SNORD111B	1.100642416	0	0	-12.13092	NEK8	74.684388	300.0166375	0.248934155	-2.006164	ATXN7	1371.400451	409.9343075	0.298916562	-1.742185
RNU6ATAC1	1.100642416	0	0	-12.13092	KLF8	27.3842756	110.0061004	0.248934155	-2.006164	GFPT2	333.4946521	99.579184	0.298593046	-1.743748
MIR1285-1	1.100642416	0	0	-12.13092	GSTA2	26.55444907	106.6725822	0.248934155	-2.006164	SPRYD3	375.319064	112.026582	0.298483591	-1.744276
MIR1249	1.100642416	0	0	-12.13092	DHPS	20.74566333	83.33795486	0.248934155	-2.006164	NPIPB15	105.661672	31.53340827	0.298437529	-1.744499
MIR1276	1.100642416	0	0	-12.13092	ADAMTS15	20.74566333	83.33795486	0.248934155	-2.006164	DPYSL3	1785.241999	532.7486344	0.298418161	-1.744593
MIR1278	1.100642416	0	0	-12.13092	CTU1	15.76670413	63.33684569	0.248934155	-2.006164	SLCO2B1	640.5738863	190.8601027	0.297951738	-1.746849
MIR548H3	1.100642416	0	0	-12.13092	KCP	14.10705107	56.6698093	0.248934155	-2.006164	PTGER3	178.3040714	53.10889814	0.297855779	-1.747314
SNORA11	1.100642416	0	0	-12.13092	STX16-NPEI	13.27722453	53.33629111	0.248934155	-2.006164	CHIT1	41.82441182	12.447398	0.297610832	-1.748501
MIR548J	1.100642416	0	0	-12.13092	CDH19	7.4684388	30.00166375	0.248934155	-2.006164	SOX5	234.4368347	69.7054288	0.297331385	-1.749856
MIR1183	1.100642416	0	0	-12.13092	PHF1	7.4684388	30.00166375	0.248934155	-2.006164	CASP1	265.2548223	78.83352067	0.297199199	-1.750498
MIR1256	1.100642416	0	0	-12.13092	PRDM16	6.638612267	26.66814555	0.248934155	-2.006164	DEF6	181.6059987	53.93872467	0.297009598	-1.751419
KRTAP1-5	1.100642416	0	0	-12.13092	PSKH2	6.638612267	26.66814555	0.248934155	-2.006164	RFPL2	36.32119974	10.78774493	0.297009598	-1.751419
OR2A25	1.100642416	0	0	-12.13092	CNTD1	6.638612267	26.66814555	0.248934155	-2.006164	ZCCHC24	435.8543969	129.4529392	0.297009598	-1.751419
FXYD7	1.100642416	0	0	-12.13092	LRTOMT	6.638612267	26.66814555	0.248934155	-2.006164	ZC3H6	780.3554732	231.5216028	0.296687357	-1.752985
ENSG000002	1.100642416	0	0	-12.13092	CHI3L2	5.808785734	23.33462736	0.248934155	-2.006164	CNTNAP2	551.4218506	163.4758271	0.296462367	-1.754079
ENSG000002	1.100642416	0	0	-12.13092	CFAP58	5.808785734	23.33462736	0.248934155	-2.006164	CMKLR1	282.865101	83.81247987	0.296298411	-1.754877
LINC01793	1.100642416	0	0	-12.13092	GRIA3	5.808785734	23.33462736	0.248934155	-2.006164	GCNA	123.2719506	36.51236747	0.296193638	-1.755387
ENSG000002	1.100642416	0	0	-12.13092	ERCC5	5.808785734	23.33462736	0.248934155	-2.006164	IL17RC	61.63597531	18.25618373	0.296193638	-1.755387
KIAA2012-AS	1.100642416	0	0	-12.13092	C16orf74	5.808785734	23.33462736	0.248934155	-2.006164	PDCL3P4	61.63597531	18.25618373	0.296193638	-1.755387
RNU4-62P	1.100642416	0	0	-12.13092	UBASH3A	5.808785734	23.33462736	0.248934155	-2.006164	TPM1	3104.912256	919.447799	0.296126822	-1.755713
MIR1915	1.100642416	0	0	-12.13092	FOXL1	5.808785734	23.33462736	0.248934155	-2.006164	ALPK3	117.7687385	34.8527144	0.295941986	-1.756614
RNA5SP129	1.100642416	0	0	-12.13092	CLEC17A	5.808785734	23.33462736	0.248934155	-2.006164	LGALS1	577.8372686	170.9442659	0.295834615	-1.757137
RNU6-101P	1.100642416	0	0	-12.13092	C6	3.319306133	13.33407278	0.248934155	-2.006164	CHRDL2	56.13276323	16.59653067	0.295665663	-1.757961
SNORD19C	1.100642416	0	0	-12.13092	FGFBP1	3.319306133	13.33407278	0.248934155	-2.006164	WNT2B	106.7623144	31.53340827	0.295360853	-1.759449
Y_RNA.103	1.100642416	0	0	-12.13092	DYNLT5	3.319306133	13.33407278	0.248934155	-2.006164	XAF1	334.5952946	98.74935747	0.295130742	-1.760574
Y_RNA.104	1.100642416	0	0	-12.13092	FCRLB	3.319306133	13.33407278	0.248934155	-2.006164	NFIA	3998.633898	1180.01333	0.295104118	-1.760704
RN7SKP56	1.100642416	0	0	-12.13092	LPO	3.319306133	13.33407278	0.248934155	-2.006164	TSC22D4	278.4625313	82.1528268	0.295022912	-1.761101
Y_RNA.106	1.100642416	0	0	-12.13092	OR1F1	3.319306133	13.33407278	0.248934155	-2.006164	GARIN1A	75.94432672	22.4053164	0.295022912	-1.761101
ENSG000002	1.100642416	0	0	-12.13092	TAS1R2	3.319306133	13.33407278	0.248934155	-2.006164	SYTL5	25.31477557	7.4684388	0.295022912	-1.761101
RNU2-52P	1.100642416	0	0	-12.13092	OR52D1	3.319306133	13.33407278	0.248934155	-2.006164	PLIN5	25.31477557	7.4684388	0.295022912	-1.761101
RNU2-37P	1.100642416	0	0	-12.13092	OR6P1	3.319306133	13.33407278	0.248934155	-2.006164	ENSG000002	25.31477557	7.4684388	0.295022912	-1.761101
RNU2-7P	1.100642416	0	0	-12.13092	IFNA10	3.319306133	13.33407278	0.248934155	-2.006164	CAMKK2	1339.481821	394.9974299	0.294888235	-1.76176
RN7SKP106	1.100642416	0	0	-12.13092	CATSPER4	3.319306133	13.33407278	0.248934155	-2.006164	CD53	236.6381195	69.7054288	0.294565512	-1.76334
RNU2-40P	1.100642416	0	0	-12.13092	MS4A18	3.319306133	13.33407278	0.248934155	-2.006164	HR	115.5674537	34.02288787	0.294398525	-1.764158
Y_RNA.107	1.100642416	0	0	-12.13092	STRC	3.319306133	13.33407278	0.248934155	-2.006164	CORO6	45.12633907	13.27722453	0.294223392	-1.765016
MIR1537	1.100642416	0	0	-12.13092	GLYATL1B	3.319306133	13.33407278	0.248934155	-2.006164	ATP8B2	1243.72593	365.1236747	0.293572455	-1.768211
Y_RNA.108	1.100642416	0	0	-12.13092	CREB3L3	1.659653067	6.667036389	0.248934155	-2.006164	KIAA1522	2357.576056	691.2455023	0.293201783	-1.770034
RNU6-920P	1.100642416	0	0	-12.13092	FGF10	1.659653067	6.667036389	0.248934155	-2.006164	OCLN	39.62312699	11.61757147	0.293201783	-1.770034
RNU6-1328P	1.100642416	0	0	-12.13092	HAVCR1	1.659653067	6.667036389	0.248934155	-2.006164	VAV1	118.869381	34.8527144	0.293201783	-1.770034
RNU6-564P	1.100642416	0	0	-12.13092	CDKN1C	1.659653067	6.667036389	0.248934155	-2.006164	EEF2K	19.81156349	5.808785734	0.293201783	-1.770034
RN7SKP137	1.100642416	0	0	-12.13092	KRT71	1.659653067	6.667036389	0.248934155	-2.006164	PRSS42P	19.81156349	5.808785734	0.293201783	-1.770034
RN7SKP264	1.100642416	0	0	-12.13092	KRT82	1.659653067	6.667036389	0.248934155	-2.006164	NAIPP4	19.81156349	5.808785734	0.293201783	-1.770034
RNU2-18P	1.100642416	0	0	-12.13092	KRT74	1.659653067	6.667036389	0.248934155	-2.006164	MED15	811.1734608	237.3303885	0.292576619	-1.773114
RNU6-607P	1.100642416	0	0	-12.13092	FGG	1.659653067	6.667036389	0.248934155	-2.006164	MOB3C	102.3597447	29.8737552	0.291850622	-1.776698
RNU6-938P	1.100642416	0	0	-12.13092	OR51S1	1.659653067	6.667036389	0.248934155	-2.006164	ARMH1	34.11991491	9.9579184	0.291850622	-1.776698
RNA5SP294	1.100642416	0	0	-12.13092	ITLN1	1.659653067	6.667036389	0.248934155	-2.006164	GIMAP1	34.11991491	9.9579184	0.291850622	-1.776698
LINC02068	1.100642416	0	0	-12.13092	ABHD16B	1.659653067	6.667036389	0.248934155	-2.006164	NRP1	5583.558978	1628.119658	0.291591737	-1.777978
TRBV29OR9-	1.100642416	0	0	-12.13092	C15orf62	1.659653067	6.667036389	0.248934155	-2.006164	CPEB2	165.0963624	48.12993894	0.291526344	-1.778302
ENSG000002	1.100642416	0	0	-12.13092	AGER	1.659653067	6.667036389	0.248934155	-2.006164	TBC1D8B	797.9657518	232.3514293	0.291179701	-1.780018
RPS26P15	1.100642416	0	0	-12.13092	TRAV4	1.659653067	6.667036389	0.248934155	-2.006164	ENSG000002	62.73661773	18.25618373	0.290997258	-1.780923
MTND6P21	1.100642416	0	0	-12.13092	BASP1-AS1	1.659653067	6.667036389	0.248934155	-2.006164	ZNF70	342.2997915	99.579184	0.290912196	-1.781344
USP17L2	1.100642416	0	0	-12.13092	PSMC1P11	1.659653067	6.667036389	0.248934155	-2.006164	WAS	139.7815869	40.66150013	0.290893107	-1.781439
ENSG000002	1.100642416	0	0	-12.13092	NTF4	1.659653067	6.667036389	0.248934155	-2.006164	TMEM178A	77.04496914	22.4053164	0.290808299	-1.78186
ZBTB24-DT	1.100642416	0	0	-12.13092	HNRNPA1P:	1.659653067	6.667036389	0.248934155	-2.006164	JAM3	259.7516102	75.51421454	0.290717022	-1.782313
TVP23CP1	1.100642416	0	0	-12.13092	XRCC6P2	1.659653067	6.667036389	0.248934155	-2.006164	KLHL6	91.35332055	26.55444907	0.290678532	-1.782504
ENSG000002	1.100642416	0	0	-12.13092	TNFRSF13B	1.659653067	6.667036389	0.248934155	-2.006164	CD84	331.2933673	96.25987787	0.290557818	-1.783103
AK4P4	1.100642416	0	0	-12.13092	CYP51A1P1	1.659653067	6.667036389	0.248934155	-2.006164	PPP1R12B	3032.269857	879.6161254	0.290085041	-1.785452
PRDM6-AS1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	COL25A1	42.92505424	12.447398	0.289979785	-1.785976
SAMSN1-AS	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	PLP1	14.30835141	4.149132667	0.289979785	-1.785976
RPL34P26	1.100642416	0	0	-12.13092	RFPL4AP1	1.659653067	6.667036389	0.248934155	-2.006164	PDILT	14.30835141	4.149132667	0.289979785	-1.785976
IFNWP18	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	PCNPP5	14.30835141	4.149132667	0.289979785	-1.785976
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	FAM66C	14.30835141	4.149132667	0.289979785	-1.785976
RPL18AP14	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	ATP1B1P1	14.30835141	4.149132667	0.289979785	-1.785976
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	ENSG000002	14.30835141	4.149132667	0.289979785	-1.785976
CACNA2D1-	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	CBLC	123.2719506	35.68254093	0.289461964	-1.788554
LGALS8-AS1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	RIMS1	416.0428334	120.3248473	0.289212643	-1.789797
RPL29P8	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	CASP10	80.34689639	23.23514293	0.28918532	-1.789934
PRR15-DT	1.100642416	0	0	-12.13092	OR1S1	1.659653067	6.667036389	0.248934155	-2.006164	UNC13D	146.3854414	42.3211532	0.289107665	-1.790321
PPIAP89	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	SH2D2A	66.03854498	19.08601027	0.289013186	-1.790793
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	6.667036389	0.248934155	-2.006164	TSPAN2	117.7687385	34.02288787	0.288895748	-1.791379
VN1R40P	1.100642416	0	0	-12.13092	PI4KAP1	1.659653067	6.667036389	0.248934155	-2.006164	IDUA	272.9593192	78.83352067	0.288810512	-1.791805
ENSG000002	1.100642416	0	0	-12.13092	CCL26	0.829826533	3.333518194	0.248934155	-2.006164	WBP1L	376.4197064	108.7072759	0.288792733	-1.791894
CCNJP2	1.100642416	0	0	-12.13092	ARSF	0.829826533	3.333518194	0.248934155	-2.006164	GPER1	51.73019357	14.9368776	0.288745829	-1.792128
DPPA2P1	1.100642416	0	0	-12.13092	HTR2A	0.829826533	3.333518194	0.248934155	-2.006164	HSF4	126.5738779	36.51236747	0.288466847	-1.793523
ENSG000002	1.100642416	0	0	-12.13092	CRX	0.829826533	3.333518194	0.248934155	-2.006164	CA12	37.42184215	10.78774493	0.288274022	-1.794487
ENSG000002	1.100642416	0	0	-12.13092	NPVF	0.829826533	3.333518194	0.248934155	-2.006164	SLC2A5	37.42184215	10.78774493	0.288274022	-1.794487
LINC01767	1.100642416	0	0	-12.13092	CALCA	0.829826533	3.333518194	0.248934155	-2.006164	NRAP	37.42184215	10.78774493	0.288274022	-1.794487
RRBP1P1	1.100642416	0	0	-12.13092	MYF6	0.829826533	3.333518194	0.248934155	-2.006164	PLA2G7	443.5588938	127.7932861	0.288108948	-1.795314
ZNF736P1Y	1.100642416	0	0	-12.13092	TTR	0.829826533	3.333518194	0.248934155	-2.006164	TMEM106A	135.3790172	39.00184707	0.288093738	-1.79539
TRDD1	1.100642416	0	0	-12.13092	ELOVL3	0.829826533	3.333518194	0.248934155	-2.006164	SCMH1	1880.997889	541.8767263	0.288079391	-1.795462
ENSG000002	1.100642416	0	0	-12.13092	IL22	0.829826533	3.333518194	0.248934155	-2.006164	NFAT5	5170.818072	1488.708801	0.287905856	-1.796331
RPL36AP46	1.100642416	0	0	-12.13092	MTHFS	0.829826533	3.333518194	0.248934155	-2.006164	CHODL	46.22698148	13.27722453	0.287218073	-1.799782

MIR181A2HC	1.100642416	0	0	-12.13092	ERMN	0.829826533	3.333518194	0.248934155	-2.006164	SNAP91	23.11349074	6.638612267	0.287218073	-1.799782
SFPQP1	1.100642416	0	0	-12.13092	SH3GL3	0.829826533	3.333518194	0.248934155	-2.006164	LINGO2	23.11349074	6.638612267	0.287218073	-1.799782
HMGN1P4	1.100642416	0	0	-12.13092	DNAJC5B	0.829826533	3.333518194	0.248934155	-2.006164	PTPN21	1557.409019	447.2765015	0.2871927	-1.799909
DMTF1-AS1	1.100642416	0	0	-12.13092	CDCP2	0.829826533	3.333518194	0.248934155	-2.006164	HIVEP3	1538.698098	441.4677158	0.286909899	-1.80133
ARSLP1	1.100642416	0	0	-12.13092	CCDC27	0.829826533	3.333518194	0.248934155	-2.006164	MICU3	118.869381	34.02288787	0.286220788	-1.8048
ENSG000002	1.100642416	0	0	-12.13092	COQ8A	0.829826533	3.333518194	0.248934155	-2.006164	AIM2	31.91863007	9.128091867	0.285980064	-1.806014
VEZTP1	1.100642416	0	0	-12.13092	GBX1	0.829826533	3.333518194	0.248934155	-2.006164	ENSG000002	104.5610295	29.8737552	0.285706399	-1.807395
ENSG000002	1.100642416	0	0	-12.13092	SERPINF2	0.829826533	3.333518194	0.248934155	-2.006164	TTC21A	194.8137077	55.59837774	0.285392534	-1.808981
UBE2FP1	1.100642416	0	0	-12.13092	TEX13B	0.829826533	3.333518194	0.248934155	-2.006164	ZNF69	203.618847	58.08785734	0.28527741	-1.809563
UBTFL8	1.100642416	0	0	-12.13092	XAGE3	0.829826533	3.333518194	0.248934155	-2.006164	P4HA3	81.44753881	23.23514293	0.28527741	-1.809563
ENSG000002	1.100642416	0	0	-12.13092	REG1B	0.829826533	3.333518194	0.248934155	-2.006164	RAB40AL	40.7237694	11.61757147	0.28527741	-1.809563
LINC01248	1.100642416	0	0	-12.13092	ACTE1P	0.829826533	3.333518194	0.248934155	-2.006164	HAS2	180.5053563	51.44924507	0.285028911	-1.81082
ENSG000002	1.100642416	0	0	-12.13092	FKBP2	0.829826533	3.333518194	0.248934155	-2.006164	RAB27A	937.7473387	267.2041437	0.284942578	-1.811257
LINC01857	1.100642416	0	0	-12.13092	PMS2P6	0.829826533	3.333518194	0.248934155	-2.006164	KCNIP4-IT1	67.13918739	19.08601027	0.284275265	-1.81464
LINC02054	1.100642416	0	0	-12.13092	OR52W1	0.829826533	3.333518194	0.248934155	-2.006164	FAM200A	344.5010763	97.91953094	0.284235777	-1.81484
MIR3681HG	1.100642416	0	0	-12.13092	SUMO4	0.829826533	3.333518194	0.248934155	-2.006164	FAM114A1	1057.717362	300.3972051	0.284005176	-1.816011
SNX18P9	1.100642416	0	0	-12.13092	TNP2	0.829826533	3.333518194	0.248934155	-2.006164	PLEKHF1	84.74946605	24.06496947	0.283954231	-1.81627
PHEX-AS1	1.100642416	0	0	-12.13092	ARL14	0.829826533	3.333518194	0.248934155	-2.006164	POU6F1	119.9700234	34.02288787	0.283594909	-1.818096
ENSG000002	1.100642416	0	0	-12.13092	OR2A4	0.829826533	3.333518194	0.248934155	-2.006164	ZMIZ1	8895.392009	2521.013008	0.283406623	-1.819055
PRPF4BP1	1.100642416	0	0	-12.13092	OR10K2	0.829826533	3.333518194	0.248934155	-2.006164	ERAP2	1271.241991	360.1447155	0.283301463	-1.81959
VSTM2A-OT	1.100642416	0	0	-12.13092	DGAT2L6	0.829826533	3.333518194	0.248934155	-2.006164	ZSCAN12	190.411138	53.93872467	0.28327505	-1.819725
HAUS1P2	1.100642416	0	0	-12.13092	SH3BGR	0.829826533	3.333518194	0.248934155	-2.006164	GPRASP1	1138.064258	321.9726949	0.282912579	-1.821572
SOX1-OT	1.100642416	0	0	-12.13092	FFAR3	0.829826533	3.333518194	0.248934155	-2.006164	CILP	44.02569665	12.447398	0.28273029	-1.822502
RPSAP18	1.100642416	0	0	-12.13092	LINC02875	0.829826533	3.333518194	0.248934155	-2.006164	HOMER3	123.2719506	34.8527144	0.28273029	-1.822502
RABGEF1P3	1.100642416	0	0	-12.13092	FAM205C	0.829826533	3.333518194	0.248934155	-2.006164	TASL	35.22055732	9.9579184	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	PLA2G2C	0.829826533	3.333518194	0.248934155	-2.006164	FCRL5	35.22055732	9.9579184	0.28273029	-1.822502
LINC01142	1.100642416	0	0	-12.13092	UGT2B15	0.829826533	3.333518194	0.248934155	-2.006164	HNF4G	35.22055732	9.9579184	0.28273029	-1.822502
MSL3P1	1.100642416	0	0	-12.13092	OR6C74	0.829826533	3.333518194	0.248934155	-2.006164	ITPRIPL1	35.22055732	9.9579184	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	SNORA63C	0.829826533	3.333518194	0.248934155	-2.006164	ASPA	26.41541799	7.4684388	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	HSP90B3P	0.829826533	3.333518194	0.248934155	-2.006164	MPL	26.41541799	7.4684388	0.28273029	-1.822502
RPL12P14	1.100642416	0	0	-12.13092	DUXAP8	0.829826533	3.333518194	0.248934155	-2.006164	IHH	26.41541799	7.4684388	0.28273029	-1.822502
RPL21P21	1.100642416	0	0	-12.13092	TSSK2	0.829826533	3.333518194	0.248934155	-2.006164	TMC1	26.41541799	7.4684388	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	TMC4	17.61027866	4.9789592	0.28273029	-1.822502
OACYLP	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	ZNF732	17.61027866	4.9789592	0.28273029	-1.822502
DPPA2P3	1.100642416	0	0	-12.13092	SETP8	0.829826533	3.333518194	0.248934155	-2.006164	RPL21P10	17.61027866	4.9789592	0.28273029	-1.822502
LINC02052	1.100642416	0	0	-12.13092	EEF1A1P12	0.829826533	3.333518194	0.248934155	-2.006164	TMEM220-A	17.61027866	4.9789592	0.28273029	-1.822502
LINC00539	1.100642416	0	0	-12.13092	PNMA6E	0.829826533	3.333518194	0.248934155	-2.006164	APOA5	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	BCRP4	0.829826533	3.333518194	0.248934155	-2.006164	BMP15	8.80513933	2.4894796	0.28273029	-1.822502
MTCO3P19	1.100642416	0	0	-12.13092	SIAH3	0.829826533	3.333518194	0.248934155	-2.006164	ATP1A4	8.80513933	2.4894796	0.28273029	-1.822502
MRPS9-AS2	1.100642416	0	0	-12.13092	POM121L4P	0.829826533	3.333518194	0.248934155	-2.006164	GAD2	8.80513933	2.4894796	0.28273029	-1.822502
POLR2KP2	1.100642416	0	0	-12.13092	IQCB2P	0.829826533	3.333518194	0.248934155	-2.006164	UGT3A1	8.80513933	2.4894796	0.28273029	-1.822502
HTR2A-AS1	1.100642416	0	0	-12.13092	ADAMTS7P	0.829826533	3.333518194	0.248934155	-2.006164	TAAR1	8.80513933	2.4894796	0.28273029	-1.822502
TMLHE-AS1	1.100642416	0	0	-12.13092	TUBBP9	0.829826533	3.333518194	0.248934155	-2.006164	GPR25	8.80513933	2.4894796	0.28273029	-1.822502
TNK2-AS1	1.100642416	0	0	-12.13092	RBM7P1	0.829826533	3.333518194	0.248934155	-2.006164	OR51N1P	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	CD19	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	SIRPB3P	0.829826533	3.333518194	0.248934155	-2.006164	SPATA31E1	8.80513933	2.4894796	0.28273029	-1.822502
ETV7-AS1	1.100642416	0	0	-12.13092	FLVCR2-AS	0.829826533	3.333518194	0.248934155	-2.006164	IGSF22	8.80513933	2.4894796	0.28273029	-1.822502
MTND6P7	1.100642416	0	0	-12.13092	SBF1P2	0.829826533	3.333518194	0.248934155	-2.006164	REC114	8.80513933	2.4894796	0.28273029	-1.822502
NEFMP1	1.100642416	0	0	-12.13092	SMARCE1P	0.829826533	3.333518194	0.248934155	-2.006164	OR7E38P	8.80513933	2.4894796	0.28273029	-1.822502
LINC02671	1.100642416	0	0	-12.13092	RPS27AP12	0.829826533	3.333518194	0.248934155	-2.006164	CXorf66	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	SP3P	0.829826533	3.333518194	0.248934155	-2.006164	TRAV13-2	8.80513933	2.4894796	0.28273029	-1.822502
FDPSP8	1.100642416	0	0	-12.13092	FRG2B	0.829826533	3.333518194	0.248934155	-2.006164	LNCTAM34A	8.80513933	2.4894796	0.28273029	-1.822502
RPS27AP6	1.100642416	0	0	-12.13092	OR4A8	0.829826533	3.333518194	0.248934155	-2.006164	HS3ST5	8.80513933	2.4894796	0.28273029	-1.822502
ARL5AP4	1.100642416	0	0	-12.13092	RWDD3-DT	0.829826533	3.333518194	0.248934155	-2.006164	REELD1	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	CFLAR-AS1	0.829826533	3.333518194	0.248934155	-2.006164	ENSG000002	8.80513933	2.4894796	0.28273029	-1.822502
COL4A2-AS2	1.100642416	0	0	-12.13092	IPMKP1	0.829826533	3.333518194	0.248934155	-2.006164	DCAF13P3	8.80513933	2.4894796	0.28273029	-1.822502
RORB-AS1	1.100642416	0	0	-12.13092	NEDD8P1	0.829826533	3.333518194	0.248934155	-2.006164	GAS2L2	8.80513933	2.4894796	0.28273029	-1.822502
OPA1-AS1	1.100642416	0	0	-12.13092	LRRC2P1	0.829826533	3.333518194	0.248934155	-2.006164	ENSG000002	8.80513933	2.4894796	0.28273029	-1.822502
GXYLT1P2	1.100642416	0	0	-12.13092	DNAJB6P4	0.829826533	3.333518194	0.248934155	-2.006164	KLF18	8.80513933	2.4894796	0.28273029	-1.822502
LINC01398	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	EBF3-AS1	8.80513933	2.4894796	0.28273029	-1.822502
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	LGALS8	1517.785892	429.0203178	0.282661949	-1.82285
ENSG000002	1.100642416	0	0	-12.13092	ATP5PDP2	0.829826533	3.333518194	0.248934155	-2.006164	SPARCL1	8652.150035	2443.839141	0.28245455	-1.823909
EIPR1-IT1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	FRZB	320.2869431	90.45109214	0.28240643	-1.824155
NFYCP2	1.100642416	0	0	-12.13092	SEPHS1P4	0.829826533	3.333518194	0.248934155	-2.006164	COBLL1	5157.610363	1456.345566	0.28236828	-1.82435
VPS26BP1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	RSRP1	1987.760204	560.9627366	0.282208455	-1.825167
SIGLEC30P	1.100642416	0	0	-12.13092	HNRNPA1P2	0.829826533	3.333518194	0.248934155	-2.006164	OSBPL9	3331.644594	940.1934623	0.282201008	-1.825205
RPL21P91	1.100642416	0	0	-12.13092	HSPA8P18	0.829826533	3.333518194	0.248934155	-2.006164	ELMO1	450.1627483	126.9634596	0.282039018	-1.826033
EEDP1	1.100642416	0	0	-12.13092	GRM3-AS1	0.829826533	3.333518194	0.248934155	-2.006164	MAF	1309.764475	369.2728073	0.281938329	-1.826548
PGM5-AS1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	TMCO4	536.0128567	151.0284291	0.281762699	-1.827447
LINC01752	1.100642416	0	0	-12.13092	GPR50-AS1	0.829826533	3.333518194	0.248934155	-2.006164	NEDD4L	5148.805223	1450.53678	0.281722986	-1.827651
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	SEC24A	1538.698098	433.1694504	0.281516856	-1.828707
INE1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	ZSWIM5	504.0942267	141.9003372	0.28149566	-1.828815
RC3H1-DT	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	CTNNA3	186.0085684	52.2790716	0.28105733	-1.831064
MTND5P27	1.100642416	0	0	-12.13092	SPA17P1	0.829826533	3.333518194	0.248934155	-2.006164	SHC3	224.5310529	63.06681654	0.28088238	-1.831962
FTH1P22	1.100642416	0	0	-12.13092	MKRN8P	0.829826533	3.333518194	0.248934155	-2.006164	OLFML1	112.2655265	31.53340827	0.28088238	-1.831962
ENSG000002	1.100642416	0	0	-12.13092	ACTG1P19	0.829826533	3.333518194	0.248934155	-2.006164	JAKMIP3	47.3276239	13.27722453	0.280538583	-1.833729
DPY19L2P5	1.100642416	0	0	-12.13092	RPL39P36	0.829826533	3.333518194	0.248934155	-2.006164	ATP8B4	257.5503254	72.1949084	0.280313792	-1.834885
LINC00237	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	ANKRD31	85.85010847	24.06496947	0.280313792	-1.834885
HRGP1	1.100642416	0	0	-12.13092	ATP5MC1P3	0.829826533	3.333518194	0.248934155	-2.006164	ZNF860	124.372593	34.8527144	0.280228252	-1.835326
RPS12P26	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	SMS	4470.809495	1252.208239	0.280085349	-1.836062
LINC00092	1.100642416	0	0	-12.13092	RPL21P127	0.829826533	3.333518194	0.248934155	-2.006164	PALMD	192.6124229	53.93872467	0.280037621	-1.836307
AKR1B1P6	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	CD163L1	397.3319123	111.1967555	0.279858607	-1.83723
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	ERG	281.7644586	78.83352067	0.279785183	-1.837609
ENSG000002	1.100642416	0	0	-12.13092	GCLC-AS1	0.829826533	3.333518194	0.248934155	-2.006164	WHAMM	302.6766645	84.6423064	0.27964596	-1.838327
PCDH9-AS3	1.100642416	0	0	-12.13092	LINC00536	0.829826533	3.333518194	0.248934155	-2.006164	P2RY13	97.95717505	27.3842756	0.279553546	-1.838803
TAF1A-AS1	1.100642416	0	0	-12.13092	GOLGA8K	0.829826533	3.333518194	0.248934155	-2.006164	ATP6V0E2	424.8479727	118.6651943	0.279312135	-1.84005
LINC00705	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	LDHD	29.71734524	8.298265334	0.279239793	-1.840424
LINC01770	1.100642416	0	0	-12.13092	C12orf29P3	0.829826533	3.333518194	0.248934155	-2.006164	RBM47	1398.916511	390.0184707	0.278800391	-1.842696
ENSG000002	1.100642416	0	0	-12.13092	KHDC1P1	0.829826533	3.333518194	0.248934155	-2.006164	WWC3	815.5760305	227.3724701	0.278787583	-1.842762
HMGB3P1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	PYROXD2	172.8008594	48.12993894	0.278528354	-1.844104
SNX18P3	1.100642416	0	0	-12.13092	WWP1-AS1	0.829826533	3.333518194	0.248934155	-2.006164	RILPL2	286.1670282	79.6633472	0.278380594	-1.844869
CT62	1.100642416	0	0	-12.13092	ANKRD33B	0.829826533	3.333518194	0.248934155	-2.006164	CYP4F12	71.54175706	19.9158368	0.278380594	-1.844869
LRRC3B-AS1	1.100642416	0	0	-12.13092	OR7E1P	0.829826533	3.333518194	0.248934155	-2.006164	PTPRS	8418.813842	2341.770477	0.278159195	-1.846017
RPS15AP10	1.100642416	0	0	-12.13092	HNRNPA1P5	0.829826533	3.333518194	0.248934155	-2.006164	SMURF1	1145.768755	318.6533888	0.278113177	-1.846256
ENSG000002	1.100642416	0	0	-12.13092	ZNF970P	0.829826533	3.333518194	0.248934155	-2.006164	WFS1	603.1520441	167.6249597	0.277914933	-1.847285
ENSG000002	1.100642416	0	0	-12.13092	AJUBA-DT	0.829826533	3.333518194	0.248934155	-2.006164	IL1B	20.91220591	5.808785734	0.27777011	-1.848037
FDPSP1	1.100642416	0	0	-12.13092	OR7E106P	0.829826533	3.333518194	0.248934155	-2.006164	CYP3A4	20.91220591	5.808785734	0.27777011	-1.848037
NFIB-AS1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	PURG	20.91220591	5.808785734	0.27777011	-1.848037
ENSG000002	1.100642416	0	0	-12.13092	LYPD8	0.829826533	3.333518194	0.248934155	-2.006164	ARL9	20.91220591	5.808785734	0.27777011	-1.848037
PCDH8P1	1.100642416	0	0	-12.13092	FRG2JP	0.829826533	3.333518194	0.248934155	-2.006164	ERGIC1	4832.92085	1340.999678	0.277471889	-1.849586
TMA7B	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	TDRD5	191.5117804	53.10889814	0.277314001	-1.850408

LINC01393	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	PSTPIP1	74.84368431	20.74566333	0.277186559	-1.851071
LINC01980	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	HLA-DRB1	1018.094235	282.1410213	0.277126627	-1.851383
UBE2D3P2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	THSD7A	461.1691724	127.7932861	0.277107174	-1.851484
LINC01492	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	RBM5	2371.884407	657.2226144	0.277088804	-1.85158
EDNRB-AS1	1.100642416	0	0	-12.13092	TWSG1-DT	0.829826533	3.333518194	0.248934155	-2.006164	COMT	527.2077174	146.0494699	0.27702453	-1.851914
PA2G4P5	1.100642416	0	0	-12.13092	MIR4728	0.829826533	3.333518194	0.248934155	-2.006164	TNRC18	3939.199208	1091.221891	0.277016174	-1.851958
IPPKP1	1.100642416	0	0	-12.13092	LINC01482	0.829826533	3.333518194	0.248934155	-2.006164	MUC20P1	107.8629568	29.8737552	0.276960284	-1.852249
CCDC13-AS2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	SHISA5	914.6338479	253.0970927	0.276719578	-1.853503
MYT1L-AS1	1.100642416	0	0	-12.13092	TBC1D3C	0.829826533	3.333518194	0.248934155	-2.006164	ENSG000002	33.01927249	9.128091867	0.276447395	-1.854923
RPL14P2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	CLUL1	177.203429	48.95976547	0.276291298	-1.855738
PTPRD-AS1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	PCDH18	1300.959336	359.3148889	0.276192252	-1.856255
PDE4DIPP8	1.100642416	0	0	-12.13092	LINC02666	0.829826533	3.333518194	0.248934155	-2.006164	TRABD	345.6017187	95.43005134	0.276127248	-1.856595
ASH2LP3	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	OAF	78.14561156	21.57548987	0.276093429	-1.856772
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	ANGPTL2	376.4197064	103.7283167	0.275565585	-1.859532
LINC01389	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	DLEC1	114.4668113	31.53340827	0.275480796	-1.859976
WARS1P1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	PRKAG2	1127.057834	310.3551235	0.275367522	-1.86057
DNAJC19P5	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	3.333518194	0.248934155	-2.006164	LCP1	2137.447572	588.3470122	0.275256816	-1.86115
ENSG000002	1.100642416	0	0	-12.13092	CCT6P3.1	0.829826533	3.333518194	0.248934155	-2.006164	PDZRN4	208.0214167	57.2580308	0.275250653	-1.861182
C3orf86P	1.100642416	0	0	-12.13092	KLKP1	0.829826533	3.333518194	0.248934155	-2.006164	BEST1	69.34047223	19.08601027	0.275250653	-1.861182
ENSG000002	1.100642416	0	0	-12.13092	PSKH1	101.2388371	406.6892197	0.248934155	-2.006164	RDH10	488.6852328	134.4318984	0.275088931	-1.86203
ENSG000002	1.100642416	0	0	-12.13092	RAB43	47.3001124	190.0105371	0.248934155	-2.006164	GPR176	117.7687385	32.3632348	0.274803273	-1.863529
S1PR1-DT	1.100642416	0	0	-12.13092	CYP51A1	9.9579184	40.00221833	0.248934155	-2.006164	PLPP1	1605.837285	440.6378892	0.274397595	-1.86566
RIOK3P1	1.100642416	0	0	-12.13092	HNF4G	9.9579184	40.00221833	0.248934155	-2.006164	RNH1	24.21413316	6.638612267	0.274162706	-1.866896
ZFAND3-DT	1.100642416	0	0	-12.13092	ARMH1	9.9579184	40.00221833	0.248934155	-2.006164	CRYBB3	24.21413316	6.638612267	0.274162706	-1.866896
SATB2-AS1	1.100642416	0	0	-12.13092	TXLNB	9.128091867	36.66870014	0.248934155	-2.006164	ARHGEF5	12.10706658	3.319306133	0.274162706	-1.866896
NRIR	1.100642416	0	0	-12.13092	GALT	8.298265334	33.33518194	0.248934155	-2.006164	ENDOU	12.10706658	3.319306133	0.274162706	-1.866896
ANKRD44-D	1.100642416	0	0	-12.13092	OTUD4P1	4.9789592	20.00110917	0.248934155	-2.006164	DPP6	12.10706658	3.319306133	0.274162706	-1.866896
MICALL2-DT	1.100642416	0	0	-12.13092	GCNT7	4.9789592	20.00110917	0.248934155	-2.006164	ANKRD1	12.10706658	3.319306133	0.274162706	-1.866896
RPL23AP34	1.100642416	0	0	-12.13092	NUGGC	4.9789592	20.00110917	0.248934155	-2.006164	VENTX	12.10706658	3.319306133	0.274162706	-1.866896
ENSG000002	1.100642416	0	0	-12.13092	FAM205A	4.9789592	20.00110917	0.248934155	-2.006164	TRIM74	12.10706658	3.319306133	0.274162706	-1.866896
PPIAP21	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	20.00110917	0.248934155	-2.006164	MPV17L	12.10706658	3.319306133	0.274162706	-1.866896
LINC01776	1.100642416	0	0	-12.13092	WSCD2	4.149132667	16.66759097	0.248934155	-2.006164	CLEC4D	12.10706658	3.319306133	0.274162706	-1.866896
PGBD4P6	1.100642416	0	0	-12.13092	SGCA	4.149132667	16.66759097	0.248934155	-2.006164	BATF2	12.10706658	3.319306133	0.274162706	-1.866896
ENSG000002	1.100642416	0	0	-12.13092	KCNA5	4.149132667	16.66759097	0.248934155	-2.006164	LRRN4CL	12.10706658	3.319306133	0.274162706	-1.866896
LINC00937	1.100642416	0	0	-12.13092	GCM1	4.149132667	16.66759097	0.248934155	-2.006164	IGHV3-11	12.10706658	3.319306133	0.274162706	-1.866896
RPL36AP54	1.100642416	0	0	-12.13092	CDKL2	4.149132667	16.66759097	0.248934155	-2.006164	ARF1P2	12.10706658	3.319306133	0.274162706	-1.866896
RAB28P1	1.100642416	0	0	-12.13092	SDR16C5	4.149132667	16.66759097	0.248934155	-2.006164	RPL21P19	12.10706658	3.319306133	0.274162706	-1.866896
LINC01907	1.100642416	0	0	-12.13092	GPR148	4.149132667	16.66759097	0.248934155	-2.006164	PSG11	12.10706658	3.319306133	0.274162706	-1.866896
FGFR3P6	1.100642416	0	0	-12.13092	C9orf50	4.149132667	16.66759097	0.248934155	-2.006164	ENSG000002	12.10706658	3.319306133	0.274162706	-1.866896
ENSG000002	1.100642416	0	0	-12.13092	C1QTNF12	4.149132667	16.66759097	0.248934155	-2.006164	SLC25A23	630.6681045	172.6039189	0.273684237	-1.869416
ENSG000002	1.100642416	0	0	-12.13092	SLC28A3	4.149132667	16.66759097	0.248934155	-2.006164	UTRN	17314.20585	4736.649852	0.273570148	-1.870017
PRELID3BP1	1.100642416	0	0	-12.13092	EBLN1	4.149132667	16.66759097	0.248934155	-2.006164	KIF13A	2972.835166	813.2300027	0.273553681	-1.870104
KRT18P24	1.100642416	0	0	-12.13092	AMY2A	4.149132667	16.66759097	0.248934155	-2.006164	LPAR1	464.4710997	126.9634596	0.273350613	-1.871175
ISM1-AS1	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	16.66759097	0.248934155	-2.006164	ABHD2	3374.569648	921.9372786	0.273201437	-1.871963
NPY6R	1.100642416	0	0	-12.13092	NOX1	2.4894796	10.00055458	0.248934155	-2.006164	NBPF15	331.2933673	90.45109214	0.273024156	-1.872899
ENSG000002	1.100642416	0	0	-12.13092	VDAC1P1	2.4894796	10.00055458	0.248934155	-2.006164	RGS9	127.6745203	34.8527144	0.27298097	-1.873128
PPP1R15B-A	1.100642416	0	0	-12.13092	RDH8	2.4894796	10.00055458	0.248934155	-2.006164	EFCAB12	127.6745203	34.8527144	0.27298097	-1.873128
PSPC1-AS2	1.100642416	0	0	-12.13092	KCNA1	2.4894796	10.00055458	0.248934155	-2.006164	NPIPB4	243.241974	66.38612267	0.272922151	-1.873439
LINC01876	1.100642416	0	0	-12.13092	SLC5A7	2.4894796	10.00055458	0.248934155	-2.006164	PYGM	182.7066411	49.789592	0.272511123	-1.875613
ENSG000002	1.100642416	0	0	-12.13092	CD1A	2.4894796	10.00055458	0.248934155	-2.006164	ARHGAP25	130.9764475	35.68254093	0.27243479	-1.876017
ENSG000002	1.100642416	0	0	-12.13092	ERICH6B	2.4894796	10.00055458	0.248934155	-2.006164	ACOX3	368.7152095	100.4090105	0.272321315	-1.876618
ENSG000002	1.100642416	0	0	-12.13092	AMBN	2.4894796	10.00055458	0.248934155	-2.006164	CARMIL2	39.62312699	10.78774493	0.272258798	-1.876949
ENSG000002	1.100642416	0	0	-12.13092	CELA2B	2.4894796	10.00055458	0.248934155	-2.006164	USP53	2035.087828	553.4942978	0.271975632	-1.878451
GAPDHP32	1.100642416	0	0	-12.13092	RPL29P11	2.4894796	10.00055458	0.248934155	-2.006164	MCC	394.029985	107.0476228	0.271673799	-1.880053
NOTCH2P1	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	10.00055458	0.248934155	-2.006164	TSPAN8	110.0642416	29.8737552	0.271421079	-1.881395
RPL7AP51	1.100642416	0	0	-12.13092	TAB3-AS2	2.4894796	10.00055458	0.248934155	-2.006164	P2RY2	27.51606041	7.4684388	0.271421079	-1.881395
ACTR3BP2	1.100642416	0	0	-12.13092	NASPP1	2.4894796	10.00055458	0.248934155	-2.006164	ZKSCAN1	2441.224879	662.2015736	0.271257916	-1.882263
ENSG000002	1.100642416	0	0	-12.13092	OR10G2	2.4894796	10.00055458	0.248934155	-2.006164	FOXP2	97.95717505	26.55444907	0.271082226	-1.883198
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	10.00055458	0.248934155	-2.006164	BCL3	168.3982897	45.64045934	0.271026858	-1.883492
CYP4F26P	1.100642416	0	0	-12.13092	COL4A5	627.3488592	2522.3621	0.248714829	-2.007436	GNMT	73.74304189	19.9158368	0.270070725	-1.888591
LINC00606	1.100642416	0	0	-12.13092	ARHGEF1	394.9974299	1590.088179	0.24841228	-2.009192	VDR	89.15203572	24.06496947	0.2699318	-1.889333
ENSG000002	1.100642416	0	0	-12.13092	EFEMP1	183.3916639	738.9298664	0.24818548	-2.010509	MIR497HG	46.22698148	12.447398	0.269266943	-1.892891
RPL39P40	1.100642416	0	0	-12.13092	PEAR1	85.47213294	344.4635467	0.248131141	-2.010825	CCBE1	15.40899383	4.149132667	0.269266943	-1.892891
ENSG000002	1.100642416	0	0	-12.13092	ACBD4	58.91768387	237.7909645	0.247770911	-2.012921	SMIM10	15.40899383	4.149132667	0.269266943	-1.892891
SNX30-DT	1.100642416	0	0	-12.13092	L3HYPDH	55.59837774	224.4568918	0.247701807	-2.013324	CEMP1	15.40899383	4.149132667	0.269266943	-1.892891
LINC00343	1.100642416	0	0	-12.13092	SDK2	1717.740924	6949.274262	0.247182779	-2.01635	ENSG000002	15.40899383	4.149132667	0.269266943	-1.892891
ENSG000002	1.100642416	0	0	-12.13092	DENND6B	37.342194	151.1194915	0.247103756	-2.016811	ENSG000002	15.40899383	4.149132667	0.269266943	-1.892891
SLC9A3P3	1.100642416	0	0	-12.13092	PLXNB3	73.85456147	298.9054648	0.247083343	-2.01693	DYNLRB2-A	15.40899383	4.149132667	0.269266943	-1.892891
ENSG000002	1.100642416	0	0	-12.13092	SLC10A5	73.85456147	298.9054648	0.247083343	-2.01693	ENSG000002	15.40899383	4.149132667	0.269266943	-1.892891
ENSG000002	1.100642416	0	0	-12.13092	PLEC	12541.1684	50873.93234	0.246514626	-2.020255	TYMP	157.3918655	42.3211532	0.268890346	-1.89491
ENSG000002	1.100642416	0	0	-12.13092	ANTXR1	780.0369414	3164.619939	0.246486768	-2.020418	THSD7B	64.93790256	17.4263572	0.268354174	-1.89779
TSPAN14-AS	1.100642416	0	0	-12.13092	SGSM2	766.7597168	3113.505993	0.246268907	-2.021694	LRRC8E	133.1777324	35.68254093	0.267931735	-1.900063
LINC02679	1.100642416	0	0	-12.13092	SNPH	22.4053164	91.11616398	0.245898372	-2.023866	FLII	384.1242033	102.8984901	0.267878174	-1.900351
ENSG000002	1.100642416	0	0	-12.13092	MYH4	21.57548987	87.78264578	0.245783089	-2.024542	NAA80	136.4796596	36.51236747	0.267529737	-1.902229
OAZ1P1	1.100642416	0	0	-12.13092	GMPR	77.1738676	314.461883	0.245415651	-2.026701	FBXO6	34.11991491	9.128091867	0.267529737	-1.902229
DISC1-IT1	1.100642416	0	0	-12.13092	ZDHHC8	110.3669289	450.0249562	0.245246241	-2.027697	GCAT	102.3597447	27.3842756	0.267529737	-1.902229
ENSG000002	1.100642416	0	0	-12.13092	SPTBN2	818.2089619	3336.851713	0.245203873	-2.027946	ZNF577	1092.937919	292.0989397	0.267260322	-1.903682
GAPDHP54	1.100642416	0	0	-12.13092	KIF13A	813.2300027	3321.295294	0.244853267	-2.030011	LY96	52.83083598	14.10705107	0.267023052	-1.904964
LINC03012	1.100642416	0	0	-12.13092	PGLS	212.4355925	867.8259033	0.244790564	-2.03038	SREBF1	1358.192742	362.6341951	0.266997595	-1.905101
HIKESHIP1	1.100642416	0	0	-12.13092	NID2	273.0129295	1115.617422	0.244719134	-2.030801	ABCB4	90.25267814	24.06496947	0.266639949	-1.907035
FAM30A	1.100642416	0	0	-12.13092	LMTK3	14.9368776	61.11450023	0.244408079	-2.032636	FGL2	753.9400552	200.8180211	0.266358074	-1.908561
AVPR1B-DT	1.100642416	0	0	-12.13092	CDS1	117.0055412	478.9154472	0.244313567	-2.033194	PLPP3	423.7473303	112.8564085	0.266329486	-1.908716
SUGT1P1	1.100642416	0	0	-12.13092	ARG2	284.6305009	1165.620195	0.244188031	-2.033936	NCKAP1L	483.1820208	128.6231127	0.266200122	-1.909417
LINC01509	1.100642416	0	0	-12.13092	ADCY8	14.10705107	57.78098203	0.244146959	-2.034178	NSUN7	561.3276323	149.368776	0.266099097	-1.909964
ENSG000002	1.100642416	0	0	-12.13092	PPP6R2	235.6707355	965.6091036	0.244064326	-2.034667	TNFSF14	18.71092108	4.9789592	0.266099097	-1.909964
ZNF277-AS1	1.100642416	0	0	-12.13092	ADAMTS20	53.93872467	221.1233736	0.243930453	-2.035458	GABRA6	18.71092108	4.9789592	0.266099097	-1.909964
THORLNC	1.100642416	0	0	-12.13092	ZBTB42	65.55629614	268.903801	0.243790887	-2.036284	SLC17A4	18.71092108	4.9789592	0.266099097	-1.909964
ENSG000002	1.100642416	0	0	-12.13092	ARHGEF16	128.6231127	527.8070474	0.243693436	-2.036861	ENSG000002	18.71092108	4.9789592	0.266099097	-1.909964
LINC01276	1.100642416	0	0	-12.13092	FASTK	113.6862351	466.6925472	0.243599851	-2.037415	ENSG000002	18.71092108	4.9789592	0.266099097	-1.909964
PPIAP60	1.100642416	0	0	-12.13092	EPHX1	765.9298903	3147.952348	0.24331051	-2.039129	CASTOR1	18.71092108	4.9789592	0.266099097	-1.909964
LINC01692	1.100642416	0	0	-12.13092	GNPTAB	3097.742449	12742.92888	0.243095012	-2.040408	MIR5687	18.71092108	4.9789592	0.266099097	-1.909964
RPS2P36	1.100642416	0	0	-12.13092	TRAF1	22.4053164	92.22733671	0.242935741	-2.041353	LINC01138	56.13276323	14.9368776	0.266099097	-1.909964
ITGB2-AS1	1.100642416	0	0	-12.13092	HECW1	10.78774493	44.44690926	0.242710801	-2.04269	NPC2	2246.411172	597.475104	0.26596872	-1.910672
ENSG000002	1.100642416	0	0	-12.13092	CALB1	10.78774493	44.44690926	0.242710801	-2.04269	MX2	231.1349074	61.40716347	0.265676717	-1.912256
ENSG000002	1.100642416	0	0	-12.13092	TMEM141	10.78774493	44.44690926	0.242710801	-2.04269	MYO6	5707.931571	1516.093076	0.265611642	-1.91261
ENSG000002	1.100642416	0	0	-12.13092	CCDC153	10.78774493	44.44690926	0.242710801	-2.04269	OLFML3	465.5717421	123.6441535	0.265574867	-1.912809
FOCAD-AS1	1.100642416	0	0	-12.13092	EIF3C	60.57733694	250.0138646	0.24229591	-2.045158	PCDHGA12	156.2912231	41.49132667	0.265474451	-1.913355
ENSG000002	1.100642416	0	0	-12.13092	CAVIN1	175.9232251	726.7069664	0.242082756	-2.046428	PDGFC	413.8415485	109.5371024	0.264683676	-1.917659
ENSG000002	1.100642416	0	0	-12.13092	NFKB1	391.6781237	1618.97867	0.241929144	-2.047344	PARVG	125.4732355	33.19306133	0.264542962	-1.918426
DOCK8-AS2	1.100642416	0	0	-12.13092	ZNF337-AS1	95.43005134	394.4663197	0.241921925	-2.047387	CD40	147.4860838	39.00184707	0.264444252	-1.918964
MYL6P3	1.100642416	0	0	-12.13092	TP53I13	82.1528268	340.0188558	0.241612562	-2.049233	AXL	722.0214251	190.8601027	0.264341328	-1.919526

PGBP	1.100642416	0	0	-12.13092	QTRT1	90.45109214	374.4652105	0.241547384	-2.049622	PDE4DIPP2	66.03854498	17.4263572	0.263881604	-1.922037
RPL21P31	1.100642416	0	0	-12.13092	MED16	432.3396239	1790.09927	0.241517122	-2.049803	IMPG1	22.01284833	5.808785734	0.263881604	-1.922037
ENSG000002	1.100642416	0	0	-12.13092	ITPKC	160.9863475	666.7036389	0.24146613	-2.050107	C1RL	22.01284833	5.808785734	0.263881604	-1.922037
MTND1P14	1.100642416	0	0	-12.13092	PCDHGA10	51.44924507	213.3451644	0.241154962	-2.051968	MSC-AS1	22.01284833	5.808785734	0.263881604	-1.922037
CDRT15P2	1.100642416	0	0	-12.13092	UNKL	151.8582556	630.0349387	0.241031483	-2.052706	LCP2	773.7516187	204.1373272	0.263827981	-1.922331
ENSG000002	1.100642416	0	0	-12.13092	MRO	8.298265334	34.44635467	0.240904021	-2.05347	OSR1	311.4818038	82.1528268	0.263748398	-1.922766
ENSG000002	1.100642416	0	0	-12.13092	RNF212B	8.298265334	34.44635467	0.240904021	-2.05347	DMXL1	7918.021543	2086.183905	0.263472876	-1.924274
MTND6P10	1.100642416	0	0	-12.13092	RBBP8NL	32.3632348	134.4519005	0.240704926	-2.054662	TMEM125	72.64239948	19.08601027	0.26273926	-1.928296
ENSG000002	1.100642416	0	0	-12.13092	ADAM11	23.23514293	96.67202764	0.240350218	-2.05679	MTARC1	173.9015018	45.64045934	0.262450059	-1.929885
HAUS6P1	1.100642416	0	0	-12.13092	RNF123	231.5216028	963.3867582	0.240320516	-2.056968	IFTAP	50.62955115	13.27722453	0.262242588	-1.931026
RABGAP1L-I	1.100642416	0	0	-12.13092	ENGASE	138.5810311	576.6986476	0.2403006	-2.057088	ENSG000002	50.62955115	13.27722453	0.262242588	-1.931026
RPL35AP2	1.100642416	0	0	-12.13092	RNASEL	153.5179087	638.9243206	0.240275575	-2.057238	PRDM16	25.31477557	6.638612267	0.262242588	-1.931026
RPL21P82	1.100642416	0	0	-12.13092	PRAM1	30.70358173	127.7848641	0.240275575	-2.057238	RPL13P12	25.31477557	6.638612267	0.262242588	-1.931026
CSE1L-DT	1.100642416	0	0	-12.13092	STPG2	14.9368776	62.22567296	0.240043649	-2.058631	CCND1	4386.060029	1150.139575	0.262226136	-1.931117
ENSG000002	1.100642416	0	0	-12.13092	LINC00623	14.9368776	62.22567296	0.240043649	-2.058631	DOCK10	1044.509653	273.842756	0.262173504	-1.931406
TSSK5P	1.100642416	0	0	-12.13092	MPL	7.4684388	31.11283648	0.240043649	-2.058631	BTN3A1	418.2441182	109.5371024	0.261897532	-1.932926
RPL6P24	1.100642416	0	0	-12.13092	PSD2	7.4684388	31.11283648	0.240043649	-2.058631	RAC2	104.5610295	27.3842756	0.261897532	-1.932926
STK4-DT	1.100642416	0	0	-12.13092	IL34	7.4684388	31.11283648	0.240043649	-2.058631	PLPPR4	79.24625397	20.74566333	0.261787306	-1.933533
ENSG000002	1.100642416	0	0	-12.13092	SIRPB2	7.4684388	31.11283648	0.240043649	-2.058631	SCDP1	53.9314784	14.10705107	0.261573602	-1.934711
ENSG000002	1.100642416	0	0	-12.13092	SLC38A9	252.2672661	1051.169404	0.239987261	-2.05897	EVPL	609.7558986	159.3266944	0.261295864	-1.936244
KIF1C-AS1	1.100642416	0	0	-12.13092	DHRS13	146.8792964	612.256175	0.239898432	-2.059504	PRDM6	111.164884	29.04392867	0.261268915	-1.936393
MROCKI	1.100642416	0	0	-12.13092	NAP1L3	63.89664307	266.6814555	0.239599124	-2.061305	DOCK8	1512.28268	394.9974299	0.261192854	-1.936813
LINC01483	1.100642416	0	0	-12.13092	SIGLEC1	142.7301637	596.6997568	0.239199299	-2.063715	PTGES	28.61670282	7.4684388	0.260981807	-1.937979
ENSG000002	1.100642416	0	0	-12.13092	PLCD1	60.57733694	253.3473828	0.239107806	-2.064267	ADGRD1	375.319064	97.91953094	0.260896768	-1.938449
RPS3AP53	1.100642416	0	0	-12.13092	CXCL1	6.638612267	27.77931829	0.238976788	-2.065058	KIF7	146.3854414	38.17202053	0.260763777	-1.939185
ENSG000002	1.100642416	0	0	-12.13092	MOAP1	6.638612267	27.77931829	0.238976788	-2.065058	SLC52A3	89.15203572	23.23514293	0.260623807	-1.939959
ENSG000002	1.100642416	0	0	-12.13092	LINGO2	6.638612267	27.77931829	0.238976788	-2.065058	GNA14	89.15203572	23.23514293	0.260623807	-1.939959
SNRNP40P1	1.100642416	0	0	-12.13092	DDN	6.638612267	27.77931829	0.238976788	-2.065058	ZEB2	6935.147865	1806.532363	0.260489379	-1.940704
ENSG000002	1.100642416	0	0	-12.13092	FLG	52.2790716	218.9010281	0.238825153	-2.065973	SERPINF1	1725.807309	448.9361546	0.260131101	-1.942689
LINC02803	1.100642416	0	0	-12.13092	TTN-AS1	195.8390619	820.0454758	0.23881488	-2.066035	RRAS	127.6745203	33.19306133	0.259981876	-1.943517
ENSG000002	1.100642416	0	0	-12.13092	TRNT1	394.1676033	1651.202679	0.238715458	-2.066636	H6PD	514.0000084	133.6020719	0.259926206	-1.943826
RPL36AP31	1.100642416	0	0	-12.13092	SCGB1D2	49.789592	208.9004735	0.238341212	-2.0689	LTBP3	1590.428292	413.2536136	0.259837942	-1.944316
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	24.894796	104.4502368	0.238341212	-2.0689	SORD	1292.154197	335.2499195	0.259450397	-1.946469
ENSG000002	1.100642416	0	0	-12.13092	NEURL2	30.70358173	128.8960368	0.238204234	-2.069729	CARS1	35.22055732	9.128091867	0.259169433	-1.948033
DPY19L2P3	1.100642416	0	0	-12.13092	C2CD6	18.25618373	76.67091847	0.23811093	-2.070294	CXCL3	35.22055732	9.128091867	0.259169433	-1.948033
SNAP25-AS1	1.100642416	0	0	-12.13092	USH1C	60.57733694	254.4585555	0.238063667	-2.070581	PTPRF	7980.758161	2067.927721	0.259114194	-1.94834
IL6ST-DT	1.100642416	0	0	-12.13092	BMP4	24.06496947	101.1167186	0.237991994	-2.071015	FNBP1	2235.404748	579.2189203	0.25911143	-1.948355
LINC02344	1.100642416	0	0	-12.13092	IQUB	23.23514293	97.78320037	0.237618966	-2.073278	TNS1	11371.83745	2937.585928	0.258321133	-1.952762
ENSG000002	1.100642416	0	0	-12.13092	C16orf96	23.23514293	97.78320037	0.237618966	-2.073278	TRO	80.34689639	20.74566333	0.258201178	-1.953433
ENSG000002	1.100642416	0	0	-12.13092	ANKRD30A	5.808785734	24.44580009	0.237618966	-2.073278	CCDC141	282.865101	73.02473494	0.258160992	-1.953657
ENSG000002	1.100642416	0	0	-12.13092	CD1D	5.808785734	24.44580009	0.237618966	-2.073278	DIO2	1096.239847	282.9708479	0.258128592	-1.953838
RPL3P2	1.100642416	0	0	-12.13092	SBSPON	5.808785734	24.44580009	0.237618966	-2.073278	IFI16	1338.381178	345.2078379	0.257929388	-1.954952
EPHA2-AS1	1.100642416	0	0	-12.13092	INSYN1	52.2790716	220.0122008	0.237618966	-2.073278	DRAIC	83.64882364	21.57548987	0.257929388	-1.954952
NR1H5P	1.100642416	0	0	-12.13092	ARMH4	85.47213294	360.019965	0.237409425	-2.074551	IRF6	41.82441182	10.78774493	0.257929388	-1.954952
ENSG000002	1.100642416	0	0	-12.13092	PTCHD1	28.21410213	118.8954823	0.237301717	-2.075206	P2RY6	41.82441182	10.78774493	0.257929388	-1.954952
RAPGEF4-AS	1.100642416	0	0	-12.13092	CYB561A3	134.4318984	566.698093	0.237219606	-2.075705	ICAM1	212.4239863	54.7685512	0.257826586	-1.955527
ENSG000002	1.100642416	0	0	-12.13092	MAN2B2	466.3625118	1967.886907	0.23698644	-2.077124	ARFGEF3	5146.603939	1326.0628	0.25765783	-1.956472
ENSG000002	1.100642416	0	0	-12.13092	CELF2	92.94057174	392.2439742	0.236945824	-2.077371	DTX4	332.3940097	85.47213294	0.257141015	-1.959368
ENSG000002	1.100642416	0	0	-12.13092	CSF1R	355.1657563	1498.972015	0.236939551	-2.077409	GPR135	148.5867262	38.17202053	0.25690061	-1.960718
ENSG000002	1.100642416	0	0	-12.13092	MYH13	10.78774493	45.55808199	0.236791025	-2.078314	ELFN2	543.7173537	139.4108576	0.256403178	-1.963514
ENSG000002	1.100642416	0	0	-12.13092	KCNC2	80.49317374	340.0188558	0.2367315	-2.078676	NAV3	983.9743202	252.2672661	0.256375864	-1.963668
ENSG000002	1.100642416	0	0	-12.13092	ATP10D	335.2499195	1416.745233	0.236633879	-2.079271	GSPT2	116.6680961	29.8737552	0.256057622	-1.96546
ENSG000002	1.100642416	0	0	-12.13092	WNT2B	31.53340827	133.3407278	0.236487447	-2.080164	VIPR1	239.9400468	61.40716347	0.255927113	-1.966195
ENSG000002	1.100642416	0	0	-12.13092	TMBIM1	114.5160616	484.4713109	0.236373257	-2.080861	PTK2B	723.1220675	185.0513169	0.255906057	-1.966314
ENSG000002	1.100642416	0	0	-12.13092	ZBTB47	62.23699	263.3479374	0.236329894	-2.081126	GOLGA4	7459.053655	1908.601027	0.255877101	-1.966477
GLRXP1	1.100642416	0	0	-12.13092	CTSH	258.9058784	1095.616313	0.236310719	-2.081243	CAV2	126.5738779	32.3632348	0.255686524	-1.967552
TXNP5	1.100642416	0	0	-12.13092	SPOCK1	226.5426436	958.9420672	0.236242263	-2.081661	FGD2	126.5738779	32.3632348	0.255686524	-1.967552
ENSG000002	1.100642416	0	0	-12.13092	VSIR	107.0476228	453.3584744	0.236121367	-2.082399	CNN2	591.0449776	151.0284291	0.255527811	-1.968448
LINC00392	1.100642416	0	0	-12.13092	NT5E	75.51421454	320.0177467	0.235968834	-2.083332	RASSF2	461.1691724	117.8353677	0.255514407	-1.968523
LINC01350	1.100642416	0	0	-12.13092	SLC13A3	75.51421454	320.0177467	0.235968834	-2.083332	GATM	208.0214167	53.10889814	0.255304954	-1.969707
ENSG000002	1.100642416	0	0	-12.13092	IL15RA	19.9158368	84.44912759	0.235832357	-2.084166	PTAFR	149.6873686	38.17202053	0.255011634	-1.971365
LINC02585	1.100642416	0	0	-12.13092	LHX6	9.9579184	42.22456379	0.235832357	-2.084166	RNF148	91.35332055	23.23514293	0.254343715	-1.975149
ENSG000002	1.100642416	0	0	-12.13092	CCDC78	4.9789592	21.1122819	0.235832357	-2.084166	HACD4	97.95717505	24.894796	0.254139587	-1.976307
LINC00687	1.100642416	0	0	-12.13092	POTEJ	4.9789592	21.1122819	0.235832357	-2.084166	PALLD	3640.925113	924.4267582	0.253898866	-1.977674
ENSG000002	1.100642416	0	0	-12.13092	OVCH1	14.9368776	63.33684569	0.235832357	-2.084166	ENSG000002	124.372593	31.53340827	0.253539847	-1.979716
ENSG000002	1.100642416	0	0	-12.13092	TYSND1	54.7685512	232.2351009	0.235832357	-2.084166	MITF	466.6723845	117.8353677	0.252501266	-1.985637
ANKRD49P1	1.100642416	0	0	-12.13092	S100A16	39.00184707	165.564737	0.235568562	-2.085781	ZNF532	5386.543985	1359.255862	0.25234285	-1.986543
CYP2C59P	1.100642416	0	0	-12.13092	ARHGAP4	73.02473494	310.0171921	0.235550598	-2.085891	PTCH2	69.34047223	17.4263572	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CD276	340.2288787	1444.524551	0.235530008	-2.086017	PPP2R2B	66.03854498	16.59653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PREX2	175.9232251	747.8192483	0.235248324	-2.087744	FAM209A	16.50963624	4.149132667	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	AMIGO1	28.21410213	120.006655	0.235104479	-2.088626	EPO	16.50963624	4.149132667	0.251315814	-1.992427
LYPLAL1-AS	1.100642416	0	0	-12.13092	WNT4	78.83352067	335.5741649	0.234921305	-2.089751	CYP2C8	16.50963624	4.149132667	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CA10	27.3842756	116.6731368	0.234709346	-2.091053	CCDC83	16.50963624	4.149132667	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TRPV3	9.128091867	38.8910456	0.234709346	-2.091053	TMEM132D	16.50963624	4.149132667	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	EPHB3	219.9040313	937.8297853	0.234481816	-2.092452	DPY19L1P2	16.50963624	4.149132667	0.251315814	-1.992427
SNRPGP9	1.100642416	0	0	-12.13092	PIGG	341.8885317	1458.969796	0.234335579	-2.093352	USP34-DT	16.50963624	4.149132667	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	INTS11	346.8674909	1482.304424	0.23400557	-2.095385	SMTN	1340.582463	336.9095725	0.251315814	-1.992427
NUTM2E	1.100642416	0	0	-12.13092	MACROD1	43.15097974	184.4546734	0.233938121	-2.095801	HIF3A	59.43469048	14.9368776	0.251315814	-1.992427
MACC1-AS1	1.100642416	0	0	-12.13092	CYP39A1	110.3669289	472.2484109	0.233705242	-2.097238	KCNQ4	52.83083598	13.27722453	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LAMC2	50.61941854	216.6786826	0.23361513	-2.097794	CAVIN3	52.83083598	13.27722453	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TECPR1	109.5371024	468.9148927	0.233596979	-2.097906	C3orf18	23.11349074	5.808785734	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ADM	29.04392867	124.4513459	0.23337577	-2.099273	F7	6.603854498	1.659653067	0.251315814	-1.992427
PABPC1P11	1.100642416	0	0	-12.13092	DCT	8.298265334	35.55752741	0.23337577	-2.099273	DAW1	6.603854498	1.659653067	0.251315814	-1.992427
LAMA5-AS1	1.100642416	0	0	-12.13092	PF4V1	4.149132667	17.7787637	0.23337577	-2.099273	CYP1A1	6.603854498	1.659653067	0.251315814	-1.992427
PIK3IP1-DT	1.100642416	0	0	-12.13092	EDA2R	4.149132667	17.7787637	0.23337577	-2.099273	LPAR4	6.603854498	1.659653067	0.251315814	-1.992427
ACTR3-AS1	1.100642416	0	0	-12.13092	XCL1	4.149132667	17.7787637	0.23337577	-2.099273	PRDM14	6.603854498	1.659653067	0.251315814	-1.992427
CSP1	1.100642416	0	0	-12.13092	PM20D1	4.149132667	17.7787637	0.23337577	-2.099273	SLC22A8	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LENG8	4.149132667	17.7787637	0.23337577	-2.099273	GABRG1	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	MUC15	4.149132667	17.7787637	0.23337577	-2.099273	NCF1C	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FUT7	4.149132667	17.7787637	0.23337577	-2.099273	SDR9C7	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FAM47A	4.149132667	17.7787637	0.23337577	-2.099273	GLOD5	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PLEKHM1	4.149132667	17.7787637	0.23337577	-2.099273	GAP43	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LRRD1	4.149132667	17.7787637	0.23337577	-2.099273	OR1A2	6.603854498	1.659653067	0.251315814	-1.992427
LINC01038	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	17.7787637	0.23337577	-2.099273	IL17D	6.603854498	1.659653067	0.251315814	-1.992427
RPL30P13	1.100642416	0	0	-12.13092	DAPK1	638.1366042	2737.92961	0.233072684	-2.101148	ACOT12	6.603854498	1.659653067	0.251315814	-1.992427
LINC01788	1.100642416	0	0	-12.13092	ST6GAL1	177.5828781	762.2644938	0.232967532	-2.101799	ZNF80	6.603854498	1.659653067	0.251315814	-1.992427
ELOCP20	1.100642416	0	0	-12.13092	PDE3B	131.1125923	563.3645748	0.23273134	-2.103263	ODAPH	6.603854498	1.659653067	0.251315814	-1.992427
ABHD17AP4	1.100642416	0	0	-12.13092	HFE	15.76670413	67.78153662	0.232610603	-2.104011	GPHB5	6.603854498	1.659653067	0.251315814	-1.992427
MED4-AS1	1.100642416	0	0	-12.13092	ARID5A	54.7685512	235.5686191	0.232495107	-2.104728	OTOP3	6.603854498	1.659653067	0.251315814	-1.992427
RPS7P4	1.100642416	0	0	-12.13092	ENSG000002	23.23514293	100.0055458	0.232338544	-2.1057	FOXD4L4	6.603854498	1.659653067	0.251315814	-1.992427
GDI2P1	1.100642416	0	0	-12.13092	CDK5RAP3	42.3211532	182.232328	0.232237351	-2.106328	RHD	6.603854498	1.659653067	0.251315814	-1.992427

ENSG000002	1.100642416	0	0	-12.13092	SECTM1	42.3211532	182.232328	0.232237351	-2.106328	CLEC2A	6.603854498	1.659653067	0.251315814	-1.992427
CYCSP11	1.100642416	0	0	-12.13092	RGS10	112.8564085	486.6936564	0.23188387	-2.108526	GZMM	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	IHH	7.4684388	32.22400921	0.231766282	-2.109257	ADH4	6.603854498	1.659653067	0.251315814	-1.992427
LINC00710	1.100642416	0	0	-12.13092	PRKXP1	7.4684388	32.22400921	0.231766282	-2.109257	LRIT2	6.603854498	1.659653067	0.251315814	-1.992427
ST13P13	1.100642416	0	0	-12.13092	KIAA1522	691.2455023	2985.721129	0.231517102	-2.110809	TRAJ26	6.603854498	1.659653067	0.251315814	-1.992427
LRRC37A12P	1.100642416	0	0	-12.13092	VWA5A	29.04392867	125.5625187	0.231310498	-2.112097	LINC02519	6.603854498	1.659653067	0.251315814	-1.992427
LINC03036	1.100642416	0	0	-12.13092	SPATA22	10.78774493	46.66925472	0.231153144	-2.113079	LINC02876	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PLXNB1	923.5969316	3997.999488	0.23101477	-2.113943	FTH1P16	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	NLRC5	78.00369414	337.7965104	0.230919183	-2.11454	CDCA4P4	6.603854498	1.659653067	0.251315814	-1.992427
NUTF2P7	1.100642416	0	0	-12.13092	GSTM2	17.4263572	75.55974574	0.230630173	-2.116347	KBTBD13	6.603854498	1.659653067	0.251315814	-1.992427
ACAP2-IT1	1.100642416	0	0	-12.13092	FAS	90.45109214	392.2439742	0.230599061	-2.116541	VLDLR-AS1	6.603854498	1.659653067	0.251315814	-1.992427
RPL17P15	1.100642416	0	0	-12.13092	ZSWIM8	1214.036218	5264.736402	0.230597721	-2.11655	WWTR1-AS1	6.603854498	1.659653067	0.251315814	-1.992427
PGBD4P8	1.100642416	0	0	-12.13092	DACT1	24.06496947	104.4502368	0.230396505	-2.117809	NPHP3-AS1	6.603854498	1.659653067	0.251315814	-1.992427
TMEM44-AS	1.100642416	0	0	-12.13092	KLHL17	39.8316736	173.3429461	0.229785373	-2.121641	NACA2	6.603854498	1.659653067	0.251315814	-1.992427
MTCO2P12	1.100642416	0	0	-12.13092	GLT8D2	29.8737552	130.0072096	0.229785373	-2.121641	BUB1B-PAK	6.603854498	1.659653067	0.251315814	-1.992427
HYI-AS1	1.100642416	0	0	-12.13092	B3GNT9	26.55444907	115.5619641	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	MYO16	13.27722453	57.78098203	0.229785373	-2.121641	HEXA-AS1	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SIGLEC11	6.638612267	28.89049102	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
SFTA3	1.100642416	0	0	-12.13092	SPATA31C1	6.638612267	28.89049102	0.229785373	-2.121641	ACSM5P1	6.603854498	1.659653067	0.251315814	-1.992427
MED8-AS1	1.100642416	0	0	-12.13092	ENSG000002	6.638612267	28.89049102	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ARTN	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CLEC18B	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
DNPEP-AS1	1.100642416	0	0	-12.13092	TRIM50	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
GAPDHP58	1.100642416	0	0	-12.13092	TRIM74	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
PBX3-DT	1.100642416	0	0	-12.13092	TMEM207	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	MAP9-AS1	3.319306133	14.44524551	0.229785373	-2.121641	OR6Q1	6.603854498	1.659653067	0.251315814	-1.992427
LINC02526	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
RPL13AP11	1.100642416	0	0	-12.13092	BLID	3.319306133	14.44524551	0.229785373	-2.121641	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	GRAMD2B	101.2388371	441.1355744	0.229495971	-2.123459	PDCL3P2	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	MZF1	183.3916639	800.0443666	0.229226867	-2.125152	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	EVC2	51.44924507	224.4568918	0.229216598	-2.125217	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
LINC01159	1.100642416	0	0	-12.13092	MSTN	48.12993894	210.0116462	0.229177476	-2.125463	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	AP5Z1	82.98265334	362.2423104	0.22908051	-2.126073	ENSG000002	6.603854498	1.659653067	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	KIFC2	493.7467874	2155.675099	0.229045085	-2.126296	MYH16	3.301927249	0.829826533	0.251315814	-1.992427
UBE2Q1-AS1	1.100642416	0	0	-12.13092	AZGP1	19.08601027	83.33795486	0.229019422	-2.126458	CACNG3	3.301927249	0.829826533	0.251315814	-1.992427
LINC00399	1.100642416	0	0	-12.13092	SPATA20	399.9763891	1746.763534	0.228981417	-2.126698	PDE4C	3.301927249	0.829826533	0.251315814	-1.992427
CCNB1IP1P1	1.100642416	0	0	-12.13092	USP50	15.76670413	68.89270935	0.22885882	-2.12747	NPVF	3.301927249	0.829826533	0.251315814	-1.992427
DNAJC8P4	1.100642416	0	0	-12.13092	NIPSNAP3B	105.3879697	461.1366835	0.228539549	-2.129484	CCL8	3.301927249	0.829826533	0.251315814	-1.992427
PGA3	1.100642416	0	0	-12.13092	MRI1	118.6651943	520.0288383	0.228189642	-2.131695	CALCA	3.301927249	0.829826533	0.251315814	-1.992427
EEF1A1-AS1	1.100642416	0	0	-12.13092	PRKCA	488.7678282	2144.563372	0.227910182	-2.133463	MYL2	3.301927249	0.829826533	0.251315814	-1.992427
STEAP3-AS1	1.100642416	0	0	-12.13092	RTN1	130.2827657	572.2539567	0.227665994	-2.135009	NEU2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	IQCN	198.3285415	871.1594214	0.227660445	-2.135044	SLC5A9	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ZNF677	32.3632348	142.2301096	0.227541376	-2.135799	HOXB8	3.301927249	0.829826533	0.251315814	-1.992427
RHEBP1	1.100642416	0	0	-12.13092	RYR2	205.7969803	904.4946034	0.227527041	-2.13589	PMS2P5	3.301927249	0.829826533	0.251315814	-1.992427
FOSL2-AS1	1.100642416	0	0	-12.13092	IZUMO4	11.61757147	51.11394565	0.227287706	-2.137408	GCM2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SMAD6	17.4263572	76.67091847	0.227287706	-2.137408	IL17B	3.301927249	0.829826533	0.251315814	-1.992427
GTF3AP6	1.100642416	0	0	-12.13092	PACRG	5.808785734	25.55697282	0.227287706	-2.137408	IGLL1	3.301927249	0.829826533	0.251315814	-1.992427
HMGB3P9	1.100642416	0	0	-12.13092	SLC22A4	5.808785734	25.55697282	0.227287706	-2.137408	CNMD	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	HCG27	5.808785734	25.55697282	0.227287706	-2.137408	RDH12	3.301927249	0.829826533	0.251315814	-1.992427
ANKRD66	1.100642416	0	0	-12.13092	TBC1D17	259.7357049	1144.507913	0.226940943	-2.139611	LIX1	3.301927249	0.829826533	0.251315814	-1.992427
RPL4P6	1.100642416	0	0	-12.13092	ADAM33	117.0055412	515.5841474	0.226937818	-2.139631	TRIM48	3.301927249	0.829826533	0.251315814	-1.992427
DLEC1P1	1.100642416	0	0	-12.13092	IGF1R	376.7412461	1661.203234	0.226788173	-2.140583	OTOA	3.301927249	0.829826533	0.251315814	-1.992427
LINC00443	1.100642416	0	0	-12.13092	ENTPD6	514.4924507	2269.014718	0.226747075	-2.140844	GJD2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	B3GALT6	58.91768387	260.0144192	0.22659391	-2.141819	IL24	3.301927249	0.829826533	0.251315814	-1.992427
RPL21P83	1.100642416	0	0	-12.13092	FYCO1	285.4603275	1263.403396	0.225945512	-2.145953	TM4SF4	3.301927249	0.829826533	0.251315814	-1.992427
RABGEF1P2	1.100642416	0	0	-12.13092	ADGRA2	135.2617249	598.9221022	0.225841932	-2.146615	CCDC63	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TEPSIN	102.0686636	452.2473017	0.225692145	-2.147572	ACSM6	3.301927249	0.829826533	0.251315814	-1.992427
HSPB1P2	1.100642416	0	0	-12.13092	GRIN2D	13.27722453	58.89215477	0.2254498	-2.149122	C1orf100	3.301927249	0.829826533	0.251315814	-1.992427
CIBAR1P2	1.100642416	0	0	-12.13092	BTD	497.0660935	2206.789045	0.225244046	-2.150439	CBY2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	GPR135	38.17202053	170.0094279	0.224528845	-2.155027	OR7A15P	3.301927249	0.829826533	0.251315814	-1.992427
HERC2P4	1.100642416	0	0	-12.13092	HHIPL2	19.9158368	88.89381852	0.224040739	-2.158167	FAM9B	3.301927249	0.829826533	0.251315814	-1.992427
GTF2IP23	1.100642416	0	0	-12.13092	FBXW10	9.9579184	44.44690926	0.224040739	-2.158167	NEUROG2	3.301927249	0.829826533	0.251315814	-1.992427
BEND7P1	1.100642416	0	0	-12.13092	RBFOX1	4.9789592	22.22345463	0.224040739	-2.158167	FAM156B	3.301927249	0.829826533	0.251315814	-1.992427
HINT2P1	1.100642416	0	0	-12.13092	SULT1E1	4.9789592	22.22345463	0.224040739	-2.158167	MRGPRG	3.301927249	0.829826533	0.251315814	-1.992427
LINC01349	1.100642416	0	0	-12.13092	SLC17A3	4.9789592	22.22345463	0.224040739	-2.158167	POTEC	3.301927249	0.829826533	0.251315814	-1.992427
LINC01786	1.100642416	0	0	-12.13092	LBP	4.9789592	22.22345463	0.224040739	-2.158167	WT1-AS	3.301927249	0.829826533	0.251315814	-1.992427
LINC00595	1.100642416	0	0	-12.13092	ADAMTS8	4.9789592	22.22345463	0.224040739	-2.158167	DGAT2L6	3.301927249	0.829826533	0.251315814	-1.992427
TFAMP1	1.100642416	0	0	-12.13092	KIAA2012	4.9789592	22.22345463	0.224040739	-2.158167	SH3BGR	3.301927249	0.829826533	0.251315814	-1.992427
LINC00276	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	22.22345463	0.224040739	-2.158167	SMIM23	3.301927249	0.829826533	0.251315814	-1.992427
CLUHP5	1.100642416	0	0	-12.13092	ACTL8	2.4894796	11.11172731	0.224040739	-2.158167	OR6C76	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LRRC9	2.4894796	11.11172731	0.224040739	-2.158167	MINAR2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CHST4	2.4894796	11.11172731	0.224040739	-2.158167	FOXI2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PLPP7	2.4894796	11.11172731	0.224040739	-2.158167	OR13F1	3.301927249	0.829826533	0.251315814	-1.992427
LINC01799	1.100642416	0	0	-12.13092	TMCO5A	2.4894796	11.11172731	0.224040739	-2.158167	FGF3	3.301927249	0.829826533	0.251315814	-1.992427
FAM133DP	1.100642416	0	0	-12.13092	DPP10	2.4894796	11.11172731	0.224040739	-2.158167	KRTAP19-4	3.301927249	0.829826533	0.251315814	-1.992427
ZNF32-AS2	1.100642416	0	0	-12.13092	GPR139	2.4894796	11.11172731	0.224040739	-2.158167	C5orf52	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	KRT79	2.4894796	11.11172731	0.224040739	-2.158167	DYNLT4	3.301927249	0.829826533	0.251315814	-1.992427
RGPD4-AS1	1.100642416	0	0	-12.13092	SLC36A3	2.4894796	11.11172731	0.224040739	-2.158167	VHLL	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TMPRSS11A	2.4894796	11.11172731	0.224040739	-2.158167	LINC00523	3.301927249	0.829826533	0.251315814	-1.992427
NDUFS5P5	1.100642416	0	0	-12.13092	IGFL2	2.4894796	11.11172731	0.224040739	-2.158167	H2AC7	3.301927249	0.829826533	0.251315814	-1.992427
ENO1-AS1	1.100642416	0	0	-12.13092	MS4A13	2.4894796	11.11172731	0.224040739	-2.158167	ZNF705A	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ACTN4P1	2.4894796	11.11172731	0.224040739	-2.158167	DCHS2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CEACAM16	2.4894796	11.11172731	0.224040739	-2.158167	OR6C74	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LAMP5-AS1	2.4894796	11.11172731	0.224040739	-2.158167	SLC22A12	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	DDX10P2	2.4894796	11.11172731	0.224040739	-2.158167	SLC22A6	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TMEM229A	2.4894796	11.11172731	0.224040739	-2.158167	ABHD17AP1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	HSPB1P1	2.4894796	11.11172731	0.224040739	-2.158167	OR10Z1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	NRIP3-DT	2.4894796	11.11172731	0.224040739	-2.158167	RN7SKP50	3.301927249	0.829826533	0.251315814	-1.992427
RPS29P5	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	11.11172731	0.224040739	-2.158167	HSP90B3P	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	11.11172731	0.224040739	-2.158167	C1orf141	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CLEC19A	2.4894796	11.11172731	0.224040739	-2.158167	PKP4-AS1	3.301927249	0.829826533	0.251315814	-1.992427
LINC01362	1.100642416	0	0	-12.13092	MAP2K4P1	2.4894796	11.11172731	0.224040739	-2.158167	TRIM64	3.301927249	0.829826533	0.251315814	-1.992427
LINC02857	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	11.11172731	0.224040739	-2.158167	TRIM51BP	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	11.11172731	0.224040739	-2.158167	TRAV8-4	3.301927249	0.829826533	0.251315814	-1.992427
PPIHP1	1.100642416	0	0	-12.13092	MLIP	17.4263572	77.7820912	0.224040739	-2.158167	TRAV20	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SP140	12.447398	55.55863657	0.224040739	-2.158167	TRDV1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	NUDT17	14.9368776	66.67036389	0.224040739	-2.158167	RNU11-6P	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CBLN4	7.4684388	33.33518194	0.224040739	-2.158167	FTH1P3	3.301927249	0.829826533	0.251315814	-1.992427
LINC02541	1.100642416	0	0	-12.13092	ABCC12	7.4684388	33.33518194	0.224040739	-2.158167	PGAM1P7	3.301927249	0.829826533	0.251315814	-1.992427
HNRNPA1P6	1.100642416	0	0	-12.13092	MYLK4	7.4684388	33.33518194	0.224040739	-2.158167	LINC00612	3.301927249	0.829826533	0.251315814	-1.992427
GPS2P2	1.100642416	0	0	-12.13092	SBSN	7.4684388	33.33518194	0.224040739	-2.158167	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427

ENSG000002	1.100642416	0	0	-12.13092	AHCYL2	152.6880821	682.2600571	0.223797481	-2.159734	HNRNPA1P3	3.301927249	0.829826533	0.251315814	-1.992427
LINC02090	1.100642416	0	0	-12.13092	SLC9A2	99.579184	445.5802653	0.223482034	-2.161769	RPL23P8	3.301927249	0.829826533	0.251315814	-1.992427
RPS27P10	1.100642416	0	0	-12.13092	CLMP	31.53340827	141.1189369	0.223452706	-2.161959	HNRNPA1P4	3.301927249	0.829826533	0.251315814	-1.992427
LINC01804	1.100642416	0	0	-12.13092	CAPN14	19.08601027	85.56030032	0.223070866	-2.164426	TAS2R40	3.301927249	0.829826533	0.251315814	-1.992427
LINC01911	1.100642416	0	0	-12.13092	PCDH15	16.59653067	74.44857301	0.222926109	-2.165363	OR4E2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	GPX3	56.42820427	253.3473828	0.222730559	-2.166629	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
OR52Y1P	1.100642416	0	0	-12.13092	PDZD7	11.61757147	52.22511838	0.222451798	-2.168435	ATP6V0E1P2	3.301927249	0.829826533	0.251315814	-1.992427
HCG18	1.100642416	0	0	-12.13092	GPR176	32.3632348	145.5636278	0.222330504	-2.169222	IGSF3P2	3.301927249	0.829826533	0.251315814	-1.992427
TSSK1A	1.100642416	0	0	-12.13092	ATG2A	364.2938481	1640.090952	0.222118077	-2.170601	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
GYG1P3	1.100642416	0	0	-12.13092	EXD1	9.128091867	41.11339106	0.222022354	-2.171223	MTOR-AS1	3.301927249	0.829826533	0.251315814	-1.992427
NDUFB4P3	1.100642416	0	0	-12.13092	AKR1B1	27.3842756	123.3401732	0.222022354	-2.171223	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SRCIN1	15.76670413	71.11505481	0.221706981	-2.173274	EPS15-AS1	3.301927249	0.829826533	0.251315814	-1.992427
LNCAROD	1.100642416	0	0	-12.13092	COL24A1	76.34404107	344.4635467	0.221631699	-2.173764	ST7-AS1	3.301927249	0.829826533	0.251315814	-1.992427
RBM22P5	1.100642416	0	0	-12.13092	CAPN11	6.638612267	30.00166375	0.221274804	-2.176089	DNMBP-AS1	3.301927249	0.829826533	0.251315814	-1.992427
RPL7P56	1.100642416	0	0	-12.13092	SLC9C2	6.638612267	30.00166375	0.221274804	-2.176089	UGT1A11P	3.301927249	0.829826533	0.251315814	-1.992427
TUBB4BP6	1.100642416	0	0	-12.13092	TROAP-AS1	6.638612267	30.00166375	0.221274804	-2.176089	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LINC01720	1.100642416	0	0	-12.13092	CYP4F12	19.9158368	90.00499125	0.221274804	-2.176089	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	RAPGEF3	24.06496947	108.8949277	0.220992566	-2.17793	LINC02766	3.301927249	0.829826533	0.251315814	-1.992427
CCNQP3	1.100642416	0	0	-12.13092	CD81	722.7789106	3273.514867	0.220795976	-2.179214	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
SPRY4-AS1	1.100642416	0	0	-12.13092	CHN1	1247.22928	5670.314449	0.219957692	-2.184702	SPDYE21	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FBXO44	43.98080627	200.0110917	0.219891837	-2.185134	USP17L1	3.301927249	0.829826533	0.251315814	-1.992427
LINC01423	1.100642416	0	0	-12.13092	GLYCTK	24.894796	113.3396186	0.219647783	-2.186736	LINC01160	3.301927249	0.829826533	0.251315814	-1.992427
CFAP58-DT	1.100642416	0	0	-12.13092	GPR83	20.74566333	94.44968217	0.219647783	-2.186736	HSP90AA3P	3.301927249	0.829826533	0.251315814	-1.992427
CTNNBL1P1	1.100642416	0	0	-12.13092	RGS6	8.298265334	37.77987287	0.219647783	-2.186736	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
TRERNA1	1.100642416	0	0	-12.13092	GABRA5	8.298265334	37.77987287	0.219647783	-2.186736	MTHFD1P1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ASPG	4.149132667	18.88993643	0.219647783	-2.186736	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
E2F4P1	1.100642416	0	0	-12.13092	GOLGA6L9	4.149132667	18.88993643	0.219647783	-2.186736	GRM3-AS1	3.301927249	0.829826533	0.251315814	-1.992427
APCDD1L-D	1.100642416	0	0	-12.13092	MGAT4D	4.149132667	18.88993643	0.219647783	-2.186736	RAB1C	3.301927249	0.829826533	0.251315814	-1.992427
VDAC1P6	1.100642416	0	0	-12.13092	XKR4	4.149132667	18.88993643	0.219647783	-2.186736	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
NAP1L5P1	1.100642416	0	0	-12.13092	TEX35	4.149132667	18.88993643	0.219647783	-2.186736	LINC01687	3.301927249	0.829826533	0.251315814	-1.992427
MOB4P1	1.100642416	0	0	-12.13092	PSG2	4.149132667	18.88993643	0.219647783	-2.186736	B4GALT1-AS	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	18.88993643	0.219647783	-2.186736	LINC00690	3.301927249	0.829826533	0.251315814	-1.992427
RPL39P15	1.100642416	0	0	-12.13092	ENSG000002	46.47028587	212.2339917	0.21895779	-2.191275	KRT8P15	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FER1L5	14.10705107	64.44801842	0.218890377	-2.19172	BTF3P5	3.301927249	0.829826533	0.251315814	-1.992427
LINC00689	1.100642416	0	0	-12.13092	KDM5D	176.7530516	807.8225758	0.218801822	-2.192303	MORF4	3.301927249	0.829826533	0.251315814	-1.992427
PPP4R2P2	1.100642416	0	0	-12.13092	HMGCLL1	34.02288787	155.5641824	0.218706436	-2.192932	FAM237A	3.301927249	0.829826533	0.251315814	-1.992427
LINC01305	1.100642416	0	0	-12.13092	SLC25A34	19.9158368	91.11616398	0.218576331	-2.193791	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RB1-DT	1.100642416	0	0	-12.13092	A2ML1	19.9158368	91.11616398	0.218576331	-2.193791	FEM1AP4	3.301927249	0.829826533	0.251315814	-1.992427
CBX1P5	1.100642416	0	0	-12.13092	TLR5	101.2388371	463.359029	0.21848897	-2.194368	LINC01553	3.301927249	0.829826533	0.251315814	-1.992427
FAM27C	1.100642416	0	0	-12.13092	PCDHGC4	21.57548987	98.8943731	0.218167012	-2.196495	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
OR55B1P	1.100642416	0	0	-12.13092	GCAT	27.3842756	125.5625187	0.218092755	-2.196986	RPL5P9	3.301927249	0.829826533	0.251315814	-1.992427
MRM3P1	1.100642416	0	0	-12.13092	MAN2C1	196.6688884	902.2722579	0.21797067	-2.197794	TCF3P1	3.301927249	0.829826533	0.251315814	-1.992427
LINC02595	1.100642416	0	0	-12.13092	ICAM4	5.808785734	26.66814555	0.217817385	-2.198809	LINC01829	3.301927249	0.829826533	0.251315814	-1.992427
MTCO2P20	1.100642416	0	0	-12.13092	ACRP1	5.808785734	26.66814555	0.217817385	-2.198809	NONOP2	3.301927249	0.829826533	0.251315814	-1.992427
RPS29P7	1.100642416	0	0	-12.13092	CNTN2	5.808785734	26.66814555	0.217817385	-2.198809	RNU7-127P	3.301927249	0.829826533	0.251315814	-1.992427
LUARIS	1.100642416	0	0	-12.13092	CDR1	5.808785734	26.66814555	0.217817385	-2.198809	RNU7-195P	3.301927249	0.829826533	0.251315814	-1.992427
LINC01698	1.100642416	0	0	-12.13092	DCST2	29.04392867	133.3407278	0.217817385	-2.198809	RPL21P45	3.301927249	0.829826533	0.251315814	-1.992427
DLG3-AS1	1.100642416	0	0	-12.13092	LPAR5	11.61757147	53.33629111	0.217817385	-2.198809	HOXB-AS2	3.301927249	0.829826533	0.251315814	-1.992427
LINC01891	1.100642416	0	0	-12.13092	MEGF8	1004.090105	4616.922699	0.217480381	-2.201043	SERPINB10	3.301927249	0.829826533	0.251315814	-1.992427
BMS1P13	1.100642416	0	0	-12.13092	ZNF827	1066.327095	4906.938782	0.217310047	-2.202173	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ARHGEF9-IT	1.100642416	0	0	-12.13092	WIPF3	26.55444907	122.2290005	0.217251626	-2.202561	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
GAPDHP59	1.100642416	0	0	-12.13092	CAVIN3	13.27722453	61.11450023	0.217251626	-2.202561	RPL12P40	3.301927249	0.829826533	0.251315814	-1.992427
LINC01273	1.100642416	0	0	-12.13092	NR5A2	14.9368776	68.89270935	0.216813618	-2.205473	LINC02447	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FLT3	14.9368776	68.89270935	0.216813618	-2.205473	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	NEK5	14.9368776	68.89270935	0.216813618	-2.205473	ZSWIM5P3	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	GPR84	7.4684388	34.44635467	0.216813618	-2.205473	EGFLAM-AS	3.301927249	0.829826533	0.251315814	-1.992427
SLC66A2P1	1.100642416	0	0	-12.13092	MAP10	7.4684388	34.44635467	0.216813618	-2.205473	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PA2G4P6	1.100642416	0	0	-12.13092	PSG3	7.4684388	34.44635467	0.216813618	-2.205473	NGFR-AS1	3.301927249	0.829826533	0.251315814	-1.992427
LINC00210	1.100642416	0	0	-12.13092	CPXM1	44.8106328	206.678128	0.216813618	-2.205473	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
AKAIN1	1.100642416	0	0	-12.13092	EVC	159.3266944	735.5963482	0.216595276	-2.206926	TRIM36-IT1	3.301927249	0.829826533	0.251315814	-1.992427
LINC01819	1.100642416	0	0	-12.13092	TTLL6	16.59653067	76.67091847	0.216464482	-2.207798	WBP1LP2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ALDH4A1	102.0686636	472.2484109	0.216133419	-2.210006	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
CYP21A2	1.100642416	0	0	-12.13092	GARNL3	409.1044809	1893.438334	0.216064328	-2.210467	LIX1-AS1	3.301927249	0.829826533	0.251315814	-1.992427
MORF4L1P5	1.100642416	0	0	-12.13092	ERBB3	400.8062156	1863.436671	0.215089797	-2.216989	Y_RNA.123	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	RDH11	495.4064404	2303.461072	0.215070463	-2.217119	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
MYO3B-AS1	1.100642416	0	0	-12.13092	CFAP47	248.94796	1157.841986	0.215010306	-2.217522	GRM5-AS1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ARID5B	551.8346447	2566.80901	0.214988588	-2.217668	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
HMGB3P31	1.100642416	0	0	-12.13092	BTBD2	370.1026339	1722.317734	0.214886386	-2.218354	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
HS1BP3-IT1	1.100642416	0	0	-12.13092	PERM1	17.4263572	81.11560939	0.214833585	-2.218709	OSBPL9P4	3.301927249	0.829826533	0.251315814	-1.992427
LINC02818	1.100642416	0	0	-12.13092	XYLT2	227.3724701	1058.947613	0.214715504	-2.219502	CLEC12B	3.301927249	0.829826533	0.251315814	-1.992427
MMADHC-D	1.100642416	0	0	-12.13092	ZHX3	602.4540632	2812.378183	0.214215167	-2.222867	CAPNS2	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TUBGCP6	580.0487468	2710.150292	0.214028258	-2.224127	OR4F28P	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PLA2G6	160.9863475	752.2639392	0.214002479	-2.224301	CLLU1	3.301927249	0.829826533	0.251315814	-1.992427
DNMT3L-AS	1.100642416	0	0	-12.13092	SLC16A2	40.66150013	190.0105371	0.213996028	-2.224344	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
MAGEB6B	1.100642416	0	0	-12.13092	LTBP4	530.2591548	2484.582227	0.213419845	-2.228234	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RPL21P29	1.100642416	0	0	-12.13092	ATP13A4	26.55444907	124.4513459	0.213372132	-2.228556	HIF1AP1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	13.27722453	62.22567296	0.213372132	-2.228556	POC1B-GALI	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TMC3	6.638612267	31.11283648	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
MRPL35P2	1.100642416	0	0	-12.13092	NR1H4	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
POLR2DP1	1.100642416	0	0	-12.13092	NKX3-2	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	VENTX	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FRMD1	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RPS25P9	1.100642416	0	0	-12.13092	PGLYRP2	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
FERP1	1.100642416	0	0	-12.13092	DCST1	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CTLA4	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
MTATP6P29	1.100642416	0	0	-12.13092	TGM6	3.319306133	15.55641824	0.213372132	-2.228556	LRRC37A7P	3.301927249	0.829826533	0.251315814	-1.992427
TERF1P7	1.100642416	0	0	-12.13092	OR13H1	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	OR4P4	3.319306133	15.55641824	0.213372132	-2.228556	LINC00683	3.301927249	0.829826533	0.251315814	-1.992427
RPL3P8	1.100642416	0	0	-12.13092	GSG1L2	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ZGLP1	3.319306133	15.55641824	0.213372132	-2.228556	SNHG25	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	INMT	3.319306133	15.55641824	0.213372132	-2.228556	GAPLINC	3.301927249	0.829826533	0.251315814	-1.992427
DYNLT3P1	1.100642416	0	0	-12.13092	GCATP1	3.319306133	15.55641824	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
TMEM114	1.100642416	0	0	-12.13092	POU4F3	1.659653067	7.77820912	0.213372132	-2.228556	SELENOKP1	3.301927249	0.829826533	0.251315814	-1.992427
OR52I1	1.100642416	0	0	-12.13092	SLC6A2	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
HSD17B3-AS	1.100642416	0	0	-12.13092	ELF5	1.659653067	7.77820912	0.213372132	-2.228556	IGFL2-AS1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TTPA	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LNCPRESS1	1.100642416	0	0	-12.13092	OR7G1	1.659653067	7.77820912	0.213372132	-2.228556	BUD13P1	3.301927249	0.829826533	0.251315814	-1.992427
RPS27AP2	1.100642416	0	0	-12.13092	HTR4	1.659653067	7.77820912	0.213372132	-2.228556	ZNF30-AS1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	RNASE3	1.659653067	7.77820912	0.213372132	-2.228556	SLC46A2-AS	3.301927249	0.829826533	0.251315814	-1.992427
RPL4P2	1.100642416	0	0	-12.13092	AGAP5	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ADH6	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427

ENSG000002	1.100642416	0	0	-12.13092	TSGA10IP	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	OR2G3	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
BAG1P1	1.100642416	0	0	-12.13092	TRAV38-1	1.659653067	7.77820912	0.213372132	-2.228556	OR7A19P	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CTAGE14P	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RPL5P6	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PRAMEF6	1.100642416	0	0	-12.13092	THAP12P8	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LINC01450	1.100642416	0	0	-12.13092	OR5H1	1.659653067	7.77820912	0.213372132	-2.228556	TPTE	3.301927249	0.829826533	0.251315814	-1.992427
TGFB2-AS1	1.100642416	0	0	-12.13092	SLC4A1APP	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
OSBPL10-AS	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	KDM5DP1	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	LEFTY3P	1.659653067	7.77820912	0.213372132	-2.228556	TBC1D3C	3.301927249	0.829826533	0.251315814	-1.992427
ST3GAL5-AS	1.100642416	0	0	-12.13092	SPTBN1-AS1	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
KCND3-IT1	1.100642416	0	0	-12.13092	FABP6-AS1	1.659653067	7.77820912	0.213372132	-2.228556	OR10X1	3.301927249	0.829826533	0.251315814	-1.992427
TPMTP3	1.100642416	0	0	-12.13092	SRPK2P	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
MRTFA-AS1	1.100642416	0	0	-12.13092	MAP2K1P1	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RPL23AP35	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LINC02642	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
CST2P1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PRPS1P2	1.100642416	0	0	-12.13092	NUP153-AS1	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
GOLGA8N	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
SLC44A3P1	1.100642416	0	0	-12.13092	ATP5MC1P2	1.659653067	7.77820912	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PKDCC	34.8527144	163.3423915	0.213372132	-2.228556	JAKMIP2-AS	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CH25H	8.298265334	38.8910456	0.213372132	-2.228556	TMEM275	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	KRTCAP3	8.298265334	38.8910456	0.213372132	-2.228556	FAM169BP	3.301927249	0.829826533	0.251315814	-1.992427
TRIM80P	1.100642416	0	0	-12.13092	TTC36-AS1	8.298265334	38.8910456	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
STEAP1B-AS	1.100642416	0	0	-12.13092	IL21R	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PPP1R26P5	1.100642416	0	0	-12.13092	PLA2G5	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ITGA6-AS1	1.100642416	0	0	-12.13092	OR13C9	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PLPPR5-AS1	1.100642416	0	0	-12.13092	SLC22A9	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LMLN-AS1	1.100642416	0	0	-12.13092	SLC22A13	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
KAT7P1	1.100642416	0	0	-12.13092	MAP3K19	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
LUZP4P1	1.100642416	0	0	-12.13092	HTR3E	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
SMG7-AS1	1.100642416	0	0	-12.13092	FAM78B	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
SEC1P	1.100642416	0	0	-12.13092	TMEM253	4.9789592	23.33462736	0.213372132	-2.228556	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TELO2	195.0092353	916.7175034	0.21272555	-2.232935	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	FAM43A	68.04577574	320.0177467	0.212631257	-2.233574	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TF	25.72462253	121.1178277	0.212393361	-2.235189	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
USP12PY	1.100642416	0	0	-12.13092	CERCAM	168.4547863	793.3773302	0.212326191	-2.235646	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
GGCTP2	1.100642416	0	0	-12.13092	MYH7B	22.4053164	105.5614095	0.212249121	-2.23617	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
RPL35AP20	1.100642416	0	0	-12.13092	OLFM2	111.1967555	524.4735292	0.212015954	-2.237755	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ZNF519P1	1.100642416	0	0	-12.13092	CITED4	15.76670413	74.44857301	0.211779803	-2.239363	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
IPO7P1	1.100642416	0	0	-12.13092	NIBAN3	14.10705107	66.67036389	0.211594031	-2.240629	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CPNE8	37.342194	176.6764643	0.211359188	-2.242231	KLKP1	3.301927249	0.829826533	0.251315814	-1.992427
TBC1D26-AS	1.100642416	0	0	-12.13092	LRRC8E	35.68254093	168.8982552	0.211266486	-2.242864	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
NALCN-AS1	1.100642416	0	0	-12.13092	ZSWIM5	141.9003372	672.2595025	0.211079705	-2.24414	ENSG000002	3.301927249	0.829826533	0.251315814	-1.992427
PHGR1	1.100642416	0	0	-12.13092	SLC16A5	10.78774493	51.11394565	0.21105287	-2.244324	NOD2	42.92505424	10.78774493	0.251315814	-1.992427
ERVH48-1	1.100642416	0	0	-12.13092	HSPA12B	19.9158368	94.44968217	0.210861872	-2.24563	SLA2	19.81156349	4.9789592	0.251315814	-1.992427
EEF1A1P14	1.100642416	0	0	-12.13092	AZIN2	36.51236747	173.3429461	0.210636592	-2.247172	GIPC2	19.81156349	4.9789592	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	COMT	146.0494699	694.4829571	0.210299574	-2.249482	LIPC	19.81156349	4.9789592	0.251315814	-1.992427
SAR1AP4	1.100642416	0	0	-12.13092	ENSG000002	44.8106328	213.3451644	0.210038193	-2.251276	NUGGC	19.81156349	4.9789592	0.251315814	-1.992427
ZFY-AS1	1.100642416	0	0	-12.13092	KCNH4	14.9368776	71.11505481	0.210038193	-2.251276	PPP1R3G	19.81156349	4.9789592	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SLC17A7	7.4684388	35.55752741	0.210038193	-2.251276	ENSG000002	19.81156349	4.9789592	0.251315814	-1.992427
LINC00892	1.100642416	0	0	-12.13092	PRF1	7.4684388	35.55752741	0.210038193	-2.251276	IYD	9.905781747	2.4894796	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	GPX2	39.8316736	190.0105371	0.209628762	-2.254091	RASL10A	9.905781747	2.4894796	0.251315814	-1.992427
HOXB-AS3	1.100642416	0	0	-12.13092	CORO1B	359.3148889	1714.539525	0.209569324	-2.254501	ELMOD1	9.905781747	2.4894796	0.251315814	-1.992427
GLCCI1-DT	1.100642416	0	0	-12.13092	FCER2	5.808785734	27.77931829	0.20910469	-2.257703	AGXT2	9.905781747	2.4894796	0.251315814	-1.992427
SORBS2-AS1	1.100642416	0	0	-12.13092	IL1B	5.808785734	27.77931829	0.20910469	-2.257703	YWHAH-AS	9.905781747	2.4894796	0.251315814	-1.992427
FAM90A11P	1.100642416	0	0	-12.13092	CD247	5.808785734	27.77931829	0.20910469	-2.257703	HPD	9.905781747	2.4894796	0.251315814	-1.992427
VN1R20P	1.100642416	0	0	-12.13092	FRRS1L	11.61757147	55.55863657	0.20910469	-2.257703	HAND2	9.905781747	2.4894796	0.251315814	-1.992427
LINC01794	1.100642416	0	0	-12.13092	VAMP5	15.76670413	75.55974574	0.208665394	-2.260737	IL31RA	9.905781747	2.4894796	0.251315814	-1.992427
NPEPPSP2	1.100642416	0	0	-12.13092	ANKDD1B	9.9579184	47.78042745	0.20840999	-2.262504	NDST2	9.905781747	2.4894796	0.251315814	-1.992427
BPIFB5P	1.100642416	0	0	-12.13092	TAF1C	148.5389495	714.4840663	0.207896798	-2.266061	CHP2	9.905781747	2.4894796	0.251315814	-1.992427
LINC01762	1.100642416	0	0	-12.13092	HEXD	117.0055412	563.3645748	0.207690626	-2.267492	PKD1P3	9.905781747	2.4894796	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	TSKU	94.6002248	455.5808199	0.207647514	-2.267791	OR10R2	9.905781747	2.4894796	0.251315814	-1.992427
RPS24P6	1.100642416	0	0	-12.13092	VEPH1	12.447398	60.0033275	0.207445129	-2.269198	TRAV12-2	9.905781747	2.4894796	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	PRDM6	29.04392867	140.0077642	0.207445129	-2.269198	EEF1A1P11	9.905781747	2.4894796	0.251315814	-1.992427
GRPEL2P1	1.100642416	0	0	-12.13092	RRAS	33.19306133	160.0088733	0.207445129	-2.269198	FAM192BP	9.905781747	2.4894796	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CLCA1	4.149132667	20.00110917	0.207445129	-2.269198	ENSG000002	9.905781747	2.4894796	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	SLAMF1	4.149132667	20.00110917	0.207445129	-2.269198	ENSG000002	9.905781747	2.4894796	0.251315814	-1.992427
HMGB1P31	1.100642416	0	0	-12.13092	FAM209A	4.149132667	20.00110917	0.207445129	-2.269198	NR2F2-AS1	26.41541799	6.638612267	0.251315814	-1.992427
SNRPEP4	1.100642416	0	0	-12.13092	KLRC1	4.149132667	20.00110917	0.207445129	-2.269198	ENSG000002	26.41541799	6.638612267	0.251315814	-1.992427
RASA4DP	1.100642416	0	0	-12.13092	KCTD14	4.149132667	20.00110917	0.207445129	-2.269198	C6	13.207709	3.319306133	0.251315814	-1.992427
HMGA1P5	1.100642416	0	0	-12.13092	FAM47B	4.149132667	20.00110917	0.207445129	-2.269198	PKD2L1	13.207709	3.319306133	0.251315814	-1.992427
TLR8-AS1	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	20.00110917	0.207445129	-2.269198	KCNJ13	13.207709	3.319306133	0.251315814	-1.992427
ATP6V1G1P4	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	20.00110917	0.207445129	-2.269198	C8orf48	13.207709	3.319306133	0.251315814	-1.992427
ACTR1AP1	1.100642416	0	0	-12.13092	ILDR1	77.1738676	372.242865	0.207321281	-2.27006	TMEM31	13.207709	3.319306133	0.251315814	-1.992427
AK4P3	1.100642416	0	0	-12.13092	PCDHGA5	69.7054288	336.6853376	0.207034346	-2.272058	LARP1P1	13.207709	3.319306133	0.251315814	-1.992427
CNIH3-AS2	1.100642416	0	0	-12.13092	SIRT4	14.9368776	72.22622754	0.206806836	-2.273644	BLID	13.207709	3.319306133	0.251315814	-1.992427
LINC01719	1.100642416	0	0	-12.13092	MORN1	107.0476228	517.8064929	0.206732871	-2.27416	ALDH1A3-AS	13.207709	3.319306133	0.251315814	-1.992427
LINC01648	1.100642416	0	0	-12.13092	CELSR1	657.2226144	3180.176357	0.206662317	-2.274653	ENSG000002	13.207709	3.319306133	0.251315814	-1.992427
LINC01222	1.100642416	0	0	-12.13092	MTUS2	10.78774493	52.22511838	0.206562384	-2.275351	TSC22D1-AS	13.207709	3.319306133	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	N6AMT1	84.6423064	410.0227379	0.206433201	-2.276253	ENSG000002	13.207709	3.319306133	0.251315814	-1.992427
ENSG000002	1.100642416	0	0	-12.13092	CYP11B1	6.638612267	32.22400921	0.206014473	-2.279182	ENSG000002	159.5931504	39.8316736	0.249582601	-2.002411
ENSG000002	1.100642416	0	0	-12.13092	OXER1	6.638612267	32.22400921	0.206014473	-2.279182	OTX1	156.2912231	39.00184707	0.249545984	-2.002622
HAX1P1	1.100642416	0	0	-12.13092	ZNF90	6.638612267	32.22400921	0.206014473	-2.279182	FRK	152.9892959	38.17202053	0.249507786	-2.002843
ST6GALNAC	1.100642416	0	0	-12.13092	SLC39A13	62.23699	302.238983	0.205919797	-2.279846	IFI44	253.1477557	63.06681654	0.249130459	-2.005027
ENSG000002	1.100642416	0	0	-12.13092	PLIN3	172.6039189	838.9354122	0.205741606	-2.281095	OSR2	624.06425	155.1775617	0.248656387	-2.007775
CDHR17P	1.100642416	0	0	-12.13092	CPQ	268.8637968	1308.961478	0.205402375	-2.283475	RNF217	307.0792341	76.34404107	0.248613493	-2.008023
HNRNPA1P6	1.100642416	0	0	-12.13092	EPS8L3	9.128091867	44.44690926	0.205370678	-2.283698	NBPF10	467.7730269	116.1757147	0.248359157	-2.0095
OR52E7P	1.100642416	0	0	-12.13092	EEF1A1P9	9.128091867	44.44690926	0.205370678	-2.283698	SLC4A10	93.55460539	23.23514293	0.248359157	-2.0095
MTND2P29	1.100642416	0	0	-12.13092	PPM1M	23.23514293	113.3396186	0.205004598	-2.286272	OPHN1	742.933631	184.2214904	0.247964936	-2.011792
RPL10P19	1.100642416	0	0	-12.13092	PORCN	34.8527144	170.0094279	0.205004598	-2.286272	WWC2	624.06425	154.3477352	0.247326674	-2.01551
PANTR1	1.100642416	0	0	-12.13092	PPP1R32	14.10705107	68.89270935	0.204768417	-2.287935	FLNB	14955.52915	3686.089461	0.246470013	-2.020516
ENSG000002	1.100642416	0	0	-12.13092	RCC2	44.8106328	218.9010281	0.204707274	-2.288366	CPVL	336.7965794	82.98265334	0.246388053	-2.020996
ENSG000002	1.100642416	0	0	-12.13092	NADK2	473.8309506	2316.795145	0.204520003	-2.289686	MS4A4E	165.0963624	40.66150013	0.246289497	-2.021573
ENSG000002	1.100642416	0	0	-12.13092	RHOC	254.7567457	1247.846977	0.20415704	-2.292249	DKK2	104.5610295	25.72462253	0.246024954	-2.023123
LINC01765	1.100642416	0	0	-12.13092	ZNF692	128.6231127	630.0349387	0.204152349	-2.292282	ZNF467	205.8201318	50.61941854	0.245940074	-2.023621
CDC27P1	1.100642416	0	0	-12.13092	WFS1	167.6249597	821.1566485	0.204132744	-2.29242	PLXNB2	9051.683232	2225.594762	0.245876342	-2.023995
LINC01237	1.100642416	0	0	-12.13092	SLC49A4	420.7220524	2061.225417	0.204112587	-2.292563	ARL6IP5	607.5546138	149.368776	0.245852426	-2.024136
MIR4280HG	1.100642416	0	0	-12.13092	CABYR	4.9789592	24.44580009	0.203673399	-2.295671	ANGPT1	303.7773069	74.684388	0.245852426	-2.024136

POU6F2-AS2	1.100642416	0	0	-12.13092	ZIC3	4.9789592	24.44580009	0.203673399	-2.295671	COL2A1	553.6231354	136.0915515	0.245819842	-2.024327
TOR1BP1	1.100642416	0	0	-12.13092	PLA2G4E	4.9789592	24.44580009	0.203673399	-2.295671	CDK20	1739.015018	427.3606647	0.245748691	-2.024744
RPL7P44	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	24.44580009	0.203673399	-2.295671	NOXA1	97.95717505	24.06496947	0.245668267	-2.025217
MTCO2P17	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	24.44580009	0.203673399	-2.295671	IL4I1	81.44753881	19.9158368	0.244523494	-2.031955
ENSG000002	1.100642416	0	0	-12.13092	SLC22A18	2.4894796	12.22290005	0.203673399	-2.295671	KL	40.7237694	9.9579184	0.244523494	-2.031955
FTLP15	1.100642416	0	0	-12.13092	FASLG	2.4894796	12.22290005	0.203673399	-2.295671	ZHX3	2464.33837	602.4540632	0.244468889	-2.032277
AHCYP3	1.100642416	0	0	-12.13092	A1BG	2.4894796	12.22290005	0.203673399	-2.295671	RBMS2P1	37.42184215	9.128091867	0.243924172	-2.035495
BTF3P6	1.100642416	0	0	-12.13092	KIF25	2.4894796	12.22290005	0.203673399	-2.295671	CPQ	1102.843701	268.8637968	0.243791388	-2.036281
LINC02574	1.100642416	0	0	-12.13092	UGT2B28	2.4894796	12.22290005	0.203673399	-2.295671	PDLIM5	3547.370508	864.6792478	0.243752167	-2.036513
RPL22P21	1.100642416	0	0	-12.13092	COL26A1	2.4894796	12.22290005	0.203673399	-2.295671	RAMP2-AS1	34.11991491	8.298265334	0.243208852	-2.039732
ENSG000002	1.100642416	0	0	-12.13092	MAGEC3	2.4894796	12.22290005	0.203673399	-2.295671	ADCY6	1187.593167	288.7796336	0.243163772	-2.04
ENSG000002	1.100642416	0	0	-12.13092	OR1L3	2.4894796	12.22290005	0.203673399	-2.295671	SEMA3E	269.657392	65.55629614	0.243109583	-2.040321
ENSG000002	1.100642416	0	0	-12.13092	OR4D9	2.4894796	12.22290005	0.203673399	-2.295671	TPM4	1678.479685	407.4448279	0.242746356	-2.042478
LINC00463	1.100642416	0	0	-12.13092	KCNK7	2.4894796	12.22290005	0.203673399	-2.295671	FSTL1	2852.865143	692.0753288	0.24258957	-2.043411
PAGE2	1.100642416	0	0	-12.13092	ZAR1L	2.4894796	12.22290005	0.203673399	-2.295671	GPR155	687.9015102	166.7951332	0.242469497	-2.044125
RPL7P36	1.100642416	0	0	-12.13092	MYL4	2.4894796	12.22290005	0.203673399	-2.295671	SMIM20	30.81798766	7.4684388	0.242340249	-2.044894
ENSG000002	1.100642416	0	0	-12.13092	HNRNPA1P2	2.4894796	12.22290005	0.203673399	-2.295671	RGS4	85.85010847	20.74566333	0.241649821	-2.04901
TRIM26	1.100642416	0	0	-12.13092	LIX1L-AS1	2.4894796	12.22290005	0.203673399	-2.295671	FAM151B	27.51606041	6.638612267	0.241263181	-2.05132
ENSG000002	1.100642416	0	0	-12.13092	ABCA17P	2.4894796	12.22290005	0.203673399	-2.295671	OXER1	27.51606041	6.638612267	0.241263181	-2.05132
LINC01675	1.100642416	0	0	-12.13092	GAGE2E	2.4894796	12.22290005	0.203673399	-2.295671	ENSG000002	27.51606041	6.638612267	0.241263181	-2.05132
UGT1A13P	1.100642416	0	0	-12.13092	EXD3	153.5179087	754.4862846	0.203473425	-2.297088	TARBP1	1730.209878	417.4027463	0.241243997	-2.051435
ELOBP4	1.100642416	0	0	-12.13092	STK36	492.9169608	2424.5789	0.203300029	-2.298318	TUT7	7665.97443	1848.02369	0.241068335	-2.052486
ENSG000002	1.100642416	0	0	-12.13092	CALCOCO1	375.0815931	1846.76908	0.203101512	-2.299727	RWDD2A	268.5567496	64.7264696	0.241015985	-2.052799
ENSG000002	1.100642416	0	0	-12.13092	RCAN3	322.8025215	1590.088179	0.203009195	-2.300383	MSANTD2	268.5567496	64.7264696	0.241015985	-2.052799
ZFX-AS1	1.100642416	0	0	-12.13092	SPRYD3	112.026582	552.2528475	0.202853788	-2.301488	ITGB8	533.8115719	128.6231127	0.240952275	-2.053181
DNAJB6P6	1.100642416	0	0	-12.13092	LRRC41	313.6744296	1547.863615	0.202649915	-2.302939	PLTP	441.3576089	106.2177963	0.240661527	-2.054923
RPL7P13	1.100642416	0	0	-12.13092	ACSL5	63.89664307	315.5730557	0.202478133	-2.304162	PCDHGB7	258.6509678	62.23699	0.240621524	-2.055162
MAP3K5-AS	1.100642416	0	0	-12.13092	COL2A1	136.0915515	672.2595025	0.202439015	-2.304441	KIAA1143	48.42826632	11.61757147	0.239892368	-2.059541
LINC01731	1.100642416	0	0	-12.13092	PARP8	157.6670413	778.9320847	0.202414362	-2.304616	NDST3	24.21413316	5.808785734	0.239892368	-2.059541
RPL9P2	1.100642416	0	0	-12.13092	CCND1	1150.139575	5686.98204	0.202240761	-2.305854	TMEM150A	72.64239948	17.4263572	0.239892368	-2.059541
TATDN1P1	1.100642416	0	0	-12.13092	FBXW4	106.2177963	525.584702	0.202094536	-2.306898	RDH11	2065.905815	495.4064404	0.239801077	-2.06009
LINC01426	1.100642416	0	0	-12.13092	BLOC1S4	27.3842756	135.5630732	0.202003945	-2.307545	SV2A	93.55460539	22.4053164	0.239489187	-2.061968
USP27X-DT	1.100642416	0	0	-12.13092	OR2B6	8.298265334	41.11339106	0.201838504	-2.308727	IFI44L	232.2355498	55.59837774	0.239405112	-2.062474
ELK2BP	1.100642416	0	0	-12.13092	TMC6	159.3266944	790.0438121	0.201668176	-2.309945	LRP1	17741.25511	4247.052198	0.239388486	-2.062574
CICP13	1.100642416	0	0	-12.13092	USP54	1477.091229	7329.295337	0.201532502	-2.310916	SSTR1	138.6809445	33.19306133	0.239348394	-2.062816
ENSG000002	1.100642416	0	0	-12.13092	THSD7A	127.7932861	634.4796297	0.201414325	-2.311762	PTGR1	1193.096379	285.4603275	0.239260074	-2.063348
ENSG000002	1.100642416	0	0	-12.13092	KCNK1	85.47213294	424.4679834	0.201362968	-2.31213	ITGA7	364.3126398	87.131786	0.239167617	-2.063906
ENSG000002	1.100642416	0	0	-12.13092	IRS2	279.6515417	1388.965914	0.201337944	-2.312309	ANXA6	1249.229142	298.737552	0.239137514	-2.064088
SOD1-DT	1.100642416	0	0	-12.13092	SQSTM1	51.44924507	255.5697282	0.201311968	-2.312495	ETV7	45.12633907	10.78774493	0.239056506	-2.064576
LINC01309	1.100642416	0	0	-12.13092	PGAP3	169.2846128	841.1577577	0.201251919	-2.312926	RGMA	135.3790172	32.3632348	0.239056506	-2.064576
BIN2P1	1.100642416	0	0	-12.13092	P4HA3	23.23514293	115.5619641	0.201062202	-2.314286	PXDC1	264.1541799	63.06681654	0.238750023	-2.066427
ZFRP1	1.100642416	0	0	-12.13092	ANKRD23	5.808785734	28.89049102	0.201062202	-2.314286	GUCY1B1	347.8030036	82.98265334	0.238590962	-2.067389
ENSG000002	1.100642416	0	0	-12.13092	PTPRS	2341.770477	11668.42485	0.200692939	-2.316938	IDO1	20.91220591	4.9789592	0.238088666	-2.070429
C2CD4D-AS1	1.100642416	0	0	-12.13092	P2RY1	36.51236747	182.232328	0.200361637	-2.319322	GPM6A	20.91220591	4.9789592	0.238088666	-2.070429
PCCA-AS1	1.100642416	0	0	-12.13092	SLC22A1	9.128091867	45.55808199	0.200361637	-2.319322	FNDC5	20.91220591	4.9789592	0.238088666	-2.070429
LRRTM4-AS	1.100642416	0	0	-12.13092	KCNJ14	9.128091867	45.55808199	0.200361637	-2.319322	VEGFD	20.91220591	4.9789592	0.238088666	-2.070429
MTCYBP5	1.100642416	0	0	-12.13092	SELENOTP1	9.128091867	45.55808199	0.200361637	-2.319322	CTSW	20.91220591	4.9789592	0.238088666	-2.070429
ENSG000002	1.100642416	0	0	-12.13092	CFAP57	67.2159492	335.5741649	0.200301323	-2.319756	MMP1	20.91220591	4.9789592	0.238088666	-2.070429
NUS1P2	1.100642416	0	0	-12.13092	ACVR1C	24.894796	124.4513459	0.200036374	-2.321666	CBX1P1	20.91220591	4.9789592	0.238088666	-2.070429
SEC61G-DT	1.100642416	0	0	-12.13092	PDPN	12.447398	62.22567296	0.200036374	-2.321666	C3orf70	205.8201318	48.95976547	0.237876465	-2.071716
HDAC1P1	1.100642416	0	0	-12.13092	TNK2	515.3222772	2576.809564	0.199984618	-2.322039	NLGN1	572.3340565	136.0915515	0.237783424	-2.07228
ENSG000002	1.100642416	0	0	-12.13092	SREBF1	362.6341951	1817.878589	0.199482076	-2.325669	FHL1	610.856541	145.2196433	0.237731175	-2.072597
LINC01052	1.100642416	0	0	-12.13092	PRX	162.6460005	816.7119576	0.199147324	-2.328092	TTLL11	419.3447606	99.579184	0.237463761	-2.074221
GULOP	1.100642416	0	0	-12.13092	TMEM238	19.9158368	100.0055458	0.199147324	-2.328092	EPHX2	350.0042884	82.98265334	0.23709039	-2.076491
TPT1P9	1.100642416	0	0	-12.13092	EVPL	159.3266944	800.0443666	0.199147324	-2.328092	DUOXA1	38.52248457	9.128091867	0.23695491	-2.077316
ECI2-DT	1.100642416	0	0	-12.13092	SLC51A	6.638612267	33.33518194	0.199147324	-2.328092	ZMYND15	38.52248457	9.128091867	0.23695491	-2.077316
ENSG000002	1.100642416	0	0	-12.13092	CYP24A1	3.319306133	16.66759097	0.199147324	-2.328092	CENPT	325.7901552	77.1738676	0.236882135	-2.077759
NXT1-AS1	1.100642416	0	0	-12.13092	ANGPT4	3.319306133	16.66759097	0.199147324	-2.328092	MIA3	8815.045112	2086.183905	0.236661739	-2.079102
RPS26P30	1.100642416	0	0	-12.13092	RXRG	3.319306133	16.66759097	0.199147324	-2.328092	ENTPD6	2174.869415	514.4924507	0.236562456	-2.079707
ENSG000002	1.100642416	0	0	-12.13092	ZDHHC19	3.319306133	16.66759097	0.199147324	-2.328092	MAMLD1	203.618847	48.12993894	0.236372711	-2.080865
ENSG000002	1.100642416	0	0	-12.13092	BPIFB4	3.319306133	16.66759097	0.199147324	-2.328092	PAPSS1	3553.974362	838.1247987	0.235827475	-2.084196
ENSG000002	1.100642416	0	0	-12.13092	DTHD1	3.319306133	16.66759097	0.199147324	-2.328092	MUC2	35.22055732	8.298265334	0.235608575	-2.085536
ENSG000002	1.100642416	0	0	-12.13092	B3GNT3	16.59653067	83.33795486	0.199147324	-2.328092	TMEM40	17.61027866	4.149132667	0.235608575	-2.085536
MTND2P18	1.100642416	0	0	-12.13092	CRYBG1	241.4795212	1213.400623	0.199010547	-2.329083	AKR1D1	17.61027866	4.149132667	0.235608575	-2.085536
SHISA8	1.100642416	0	0	-12.13092	SLC23A2	477.1502567	2400.1331	0.198801582	-2.330599	M1AP	17.61027866	4.149132667	0.235608575	-2.085536
AARSD1P1	1.100642416	0	0	-12.13092	JAM3	75.51421454	380.0210742	0.198710597	-2.331259	LMOD3	17.61027866	4.149132667	0.235608575	-2.085536
RPL7AP20	1.100642416	0	0	-12.13092	SLC9B1	10.78774493	54.44746384	0.198131266	-2.335472	CCDC125	17.61027866	4.149132667	0.235608575	-2.085536
FMO10P	1.100642416	0	0	-12.13092	PPARG	82.98265334	418.9121198	0.198090839	-2.335766	IRF7	17.61027866	4.149132667	0.235608575	-2.085536
SNRPCP19	1.100642416	0	0	-12.13092	TRAPPC12	197.4987149	997.8331128	0.197927602	-2.336955	GJB5	17.61027866	4.149132667	0.235608575	-2.085536
ENSG000002	1.100642416	0	0	-12.13092	PUSL1	22.4053164	113.3396186	0.197683005	-2.338739	PRRT3-AS1	17.61027866	4.149132667	0.235608575	-2.085536
SEMA3F-AS	1.100642416	0	0	-12.13092	KCNV1	7.4684388	37.77987287	0.197683005	-2.338739	ENSG000002	17.61027866	4.149132667	0.235608575	-2.085536
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	7.4684388	37.77987287	0.197683005	-2.338739	KLHL5	1342.783748	316.1639092	0.235454078	-2.086482
MLIP-AS1	1.100642416	0	0	-12.13092	CSRNP1	45.64045934	231.1239281	0.197471805	-2.340281	HLA-B	2180.372627	512.0029711	0.23482361	-2.090351
ENSG000002	1.100642416	0	0	-12.13092	C1QTNF6	38.17202053	193.3440553	0.197430536	-2.340583	MINPP1	99.05781747	23.23514293	0.234561426	-2.091962
SLC25A5P2	1.100642416	0	0	-12.13092	GNA14	23.23514293	117.7843095	0.197268575	-2.341767	CYP4B1	99.05781747	23.23514293	0.234561426	-2.091962
SETP9	1.100642416	0	0	-12.13092	MSX1	11.61757147	58.89215477	0.197268575	-2.341767	PML	747.3362007	175.0933985	0.23429	-2.093633
LINC02532	1.100642416	0	0	-12.13092	ALPK2	15.76670413	80.00443666	0.197072872	-2.343199	THNSL2	210.2227015	48.95976547	0.232894759	-2.10225
ENSG000002	1.100642416	0	0	-12.13092	TMEM63A	262.2251845	1331.184932	0.196986293	-2.343833	TSHZ2	845.2933757	196.6688884	0.232663468	-2.103683
LINC01440	1.100642416	0	0	-12.13092	MST1P2	24.06496947	122.2290005	0.196884286	-2.34458	LOXL1	281.7644586	65.55629614	0.232663468	-2.103683
SRP14P3	1.100642416	0	0	-12.13092	DOCK4	665.5208798	3385.743313	0.196565663	-2.346917	WDFY4	338.9978642	78.83352067	0.232548724	-2.104395
MICOS10-DT	1.100642416	0	0	-12.13092	GALK1	29.04392867	147.7859733	0.196526964	-2.347201	RASAL3	117.7687385	27.3842756	0.232525846	-2.104537
ENSG000002	1.100642416	0	0	-12.13092	ABCC11	16.59653067	84.44912759	0.196526964	-2.347201	ARMCX1	146.3854414	34.02288787	0.232419888	-2.105195
TBC1D3P3	1.100642416	0	0	-12.13092	CD48	8.298265334	42.22456379	0.196526964	-2.347201	SPINK5	28.61670282	6.638612267	0.231983828	-2.107904
ACTRT1P1	1.100642416	0	0	-12.13092	P2RX6	4.149132667	21.1122819	0.196526964	-2.347201	DNASE1L3	28.61670282	6.638612267	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	ODF3L2	4.149132667	21.1122819	0.196526964	-2.347201	NR1H4	14.30835141	3.319306133	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	MIF4GD-DT	4.149132667	21.1122819	0.196526964	-2.347201	CACNA1F	14.30835141	3.319306133	0.231983828	-2.107904
FKBP4P7	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	21.1122819	0.196526964	-2.347201	LRRC31	14.30835141	3.319306133	0.231983828	-2.107904
KDM5C-IT1	1.100642416	0	0	-12.13092	CYP2U1	47.3001124	241.1244827	0.196164702	-2.349863	SERP2	14.30835141	3.319306133	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	BTN3A3	64.7264696	330.0183012	0.19612994	-2.350118	TNFRSF4	14.30835141	3.319306133	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	PDE10A	219.9040313	1122.284459	0.195943221	-2.351492	MSANTD2-A	14.30835141	3.319306133	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	IFITM1	136.921378	700.0388208	0.195591121	-2.354087	H3-7	14.30835141	3.319306133	0.231983828	-2.107904
ENSG000002	1.100642416	0	0	-12.13092	RASGRP2	45.64045934	233.3462736	0.195591121	-2.354087	ENSG000002	14.30835141	3.319306133	0.231983828	-2.107904
SNRPGP10	1.100642416	0	0	-12.13092	MKNK1	216.5847252	1107.839213	0.195501949	-2.354745	ENSG000002	14.30835141	3.319306133	0.231983828	-2.107904
SSR4P1	1.100642416	0	0	-12.13092	SLC27A1	163.4758271	836.7130668	0.195378599	-2.355656	RCN3	383.0235609	88.79143907	0.231817173	-2.108941
ENSG000002	1.100642416	0	0	-12.13092	TMEM205	229.8619497	1176.731923	0.195339266	-2.355946	MRC2	1091.837277	253.0970927	0.231808437	-2.108995
ENSG000002	1.100642416	0	0	-12.13092	ATP1B2	34.02288787	174.4541188	0.195024847	-2.35827	UBE2A	154.0899383	35.68254093	0.231569571	-2.110482
RPL29P30	1.100642416	0	0	-12.13092	CCDC181	4.9789592	25.55697282	0.194818034	-2.359801	ENSG000002	139.7815869	32.3632348	0.231527167	-2.110747
ENSG000002	1.100642416	0	0	-12.13092	TCAP	4.9789592	25.55697282	0.194818034	-2.359801	HOXC6	179.4047139	41.49132667	0.231272221	-2.112336
RPS26P31	1.100642416	0	0	-12.13092	OBSCN	1331.871586	6839.268162	0.194738904	-2.360387	RNF125	150.788011	34.8527144	0.231137172	-2.113179
ENSG000002	1.100642416	0	0	-12.13092	TNFRSF11B	85.47213294	438.9132289	0.194735832	-2.36041	TMOD1	150.788011	34.8527144	0.231137172	-2.113179
ENSG000002	1.100642416	0	0	-12.13092	GALNT12	137.7512045	707.8170299	0.194614143	-2.361312	TRAF3IP2	945.4518356	218.2443783	0.230836062	-2.115059

LINC00402	1.100642416	0	0	-12.13092	PRICKLE1	87.96161254	452.2473017	0.194498922	-2.362166	HIPK2	9124.325631	2106.099742	0.23082251	-2.115144
ENSG000002	1.100642416	0	0	-12.13092	TRPV4	62.23699	320.0177467	0.194479808	-2.362308	FAM20A	133.1777324	30.70358173	0.230545912	-2.116874
ENSG000002	1.100642416	0	0	-12.13092	OTOGL	15.76670413	81.11560939	0.194373244	-2.363098	RFLNA	39.62312699	9.128091867	0.230372829	-2.117958
DOCK7-DT	1.100642416	0	0	-12.13092	NCDN	180.0723577	926.718058	0.194311912	-2.363554	SCYL2P1	39.62312699	9.128091867	0.230372829	-2.117958
GUSBP17	1.100642416	0	0	-12.13092	CR2	10.78774493	55.55863657	0.194168641	-2.364618	HOXA5	104.5610295	24.06496947	0.230152377	-2.119339
SNX18P14	1.100642416	0	0	-12.13092	FGD2	32.3632348	166.6759097	0.194168641	-2.364618	ENSG000002	64.93790256	14.9368776	0.230017863	-2.120182
LINC01871	1.100642416	0	0	-12.13092	HERC6	126.9634596	654.4807388	0.193991132	-2.365937	PCOLCE	862.9036544	198.3285415	0.229838569	-2.121307
POU5F1P3	1.100642416	0	0	-12.13092	SLC22A20P	5.808785734	30.00166375	0.193615454	-2.368734	CELF2	405.0364092	92.94057174	0.229462265	-2.123671
FAM21EP	1.100642416	0	0	-12.13092	MVP-DT	5.808785734	30.00166375	0.193615454	-2.368734	SEMA3B	126.5738779	29.04392867	0.229462265	-2.123671
RPL36AP33	1.100642416	0	0	-12.13092	AJM1	24.06496947	124.4513459	0.193368495	-2.370575	CLSTN3	25.31477557	5.808785734	0.229462265	-2.123671
KRT18P66	1.100642416	0	0	-12.13092	EBF4	107.0476228	554.475193	0.193061158	-2.37287	RNF175	25.31477557	5.808785734	0.229462265	-2.123671
ENSG000002	1.100642416	0	0	-12.13092	FGF13	25.72462253	133.3407278	0.19292397	-2.373896	ANKRD30A	25.31477557	5.808785734	0.229462265	-2.123671
MXRA5Y	1.100642416	0	0	-12.13092	VSIG1	6.638612267	34.44635467	0.192723216	-2.375398	SIGLEC7	25.31477557	5.808785734	0.229462265	-2.123671
ENSG000002	1.100642416	0	0	-12.13092	RAPSN	6.638612267	34.44635467	0.192723216	-2.375398	TMEM158	25.31477557	5.808785734	0.229462265	-2.123671
CUBNP3	1.100642416	0	0	-12.13092	BBS1	6.638612267	34.44635467	0.192723216	-2.375398	HID1	1081.931495	248.1181335	0.229328876	-2.12451
LINC02250	1.100642416	0	0	-12.13092	ENSG000002	6.638612267	34.44635467	0.192723216	-2.375398	ARID5A	238.8394043	54.7685512	0.229311203	-2.124621
LINC02784	1.100642416	0	0	-12.13092	LOXHD1	20.74566333	107.7837549	0.192474862	-2.377258	TTN-AS1	855.1991575	195.8390619	0.228998193	-2.126592
SEPTIN14P12	1.100642416	0	0	-12.13092	EPHA10	77.1738676	401.133356	0.192389554	-2.377898	ATP10A	304.8779493	69.7054288	0.228633881	-2.128889
ARHGAP42P	1.100642416	0	0	-12.13092	NLGN1	136.0915515	707.8170299	0.192269394	-2.378799	ZNF208	181.6059987	41.49132667	0.228468922	-2.12993
MSH2-OT1	1.100642416	0	0	-12.13092	SIDT2	182.5618373	950.0526854	0.192159698	-2.379622	IFITM3	1504.578183	343.5481848	0.228335216	-2.130775
ENSG000002	1.100642416	0	0	-12.13092	DUSP15	22.4053164	116.6731368	0.192034919	-2.380559	ABI3BP	2193.580336	500.3853996	0.228113551	-2.132176
ENSG000002	1.100642416	0	0	-12.13092	MYO15A	53.10889814	276.6820101	0.191949228	-2.381203	WFDC2	47.3276239	10.78774493	0.227937598	-2.133289
CNN2P3	1.100642416	0	0	-12.13092	ZNF423	122.8143269	640.0354933	0.191886744	-2.381673	ATF7IP2	47.3276239	10.78774493	0.227937598	-2.133289
KIF3AP1	1.100642416	0	0	-12.13092	SLC52A3	23.23514293	121.1178277	0.191839165	-2.382031	FTCDNL1	58.33404806	13.27722453	0.227606775	-2.135385
ENSG000002	1.100642416	0	0	-12.13092	NME3	63.06681654	328.9071285	0.191746579	-2.382727	FAP	313.6830886	71.36508187	0.227506947	-2.136017
ENSG000002	1.100642416	0	0	-12.13092	SFTPD	16.59653067	86.67147305	0.191487811	-2.384676	BTK	230.034265	52.2790716	0.227266454	-2.137543
CTBP2P1	1.100642416	0	0	-12.13092	PTGDR2	8.298265334	43.33573653	0.191487811	-2.384676	CX3CR1	55.03212081	12.447398	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	SLC22A5	50.61941854	264.4591101	0.191407354	-2.385282	CAPN8	55.03212081	12.447398	0.226184232	-2.14443
ARHGEF7-AS	1.100642416	0	0	-12.13092	MYBPC2	9.128091867	47.78042745	0.191042491	-2.388035	TRIL	99.05781747	22.4053164	0.226184232	-2.14443
APOA1-AS	1.100642416	0	0	-12.13092	SIGLEC8	9.128091867	47.78042745	0.191042491	-2.388035	IL21R	22.01284833	4.9789592	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	SPATA25	9.128091867	47.78042745	0.191042491	-2.388035	CYP4F2	22.01284833	4.9789592	0.226184232	-2.14443
H2BW3P	1.100642416	0	0	-12.13092	TREML1	9.9579184	52.22511838	0.190672969	-2.390828	C6orf141	22.01284833	4.9789592	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	TOGARAM2	10.78774493	56.6698093	0.190361412	-2.393187	LGALS2	11.00642416	2.4894796	0.226184232	-2.14443
NSA2P1	1.100642416	0	0	-12.13092	SNED1	480.4695628	2529.029137	0.189981822	-2.396067	VTN	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	LIX1L	96.25987787	506.6947655	0.189976065	-2.39611	PRDM13	11.00642416	2.4894796	0.226184232	-2.14443
LINC01643	1.100642416	0	0	-12.13092	MIB2	161.816174	852.269485	0.189865033	-2.396954	ANKRD30BL	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	WBP1	13.27722453	70.00388208	0.189664118	-2.398481	SHLD2P1	11.00642416	2.4894796	0.226184232	-2.14443
PRELID3BP1	1.100642416	0	0	-12.13092	CHPT1	399.9763891	2110.117017	0.189551757	-2.399336	AMZ1	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	TIMP4	14.10705107	74.44857301	0.189487192	-2.399828	SLITRK2	11.00642416	2.4894796	0.226184232	-2.14443
CEACAMP11	1.100642416	0	0	-12.13092	TMEM54	144.3898168	762.2644938	0.189422199	-2.400323	IRX2-DT	11.00642416	2.4894796	0.226184232	-2.14443
ZPLD2P	1.100642416	0	0	-12.13092	A4GALT	109.5371024	578.9209931	0.189209069	-2.401947	DIO3	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	IPO13	141.9003372	750.0415937	0.189189957	-2.402093	AFDN-DT	11.00642416	2.4894796	0.226184232	-2.14443
RPL12P26	1.100642416	0	0	-12.13092	EBF2	15.76670413	83.33795486	0.189189957	-2.402093	TARID	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	VIT	18.25618373	96.67202764	0.1888466	-2.404713	ENSG000002	11.00642416	2.4894796	0.226184232	-2.14443
SLC25A3P1	1.100642416	0	0	-12.13092	TSPAN12	149.368776	791.1549848	0.188798376	-2.405082	PCED1B-AS1	11.00642416	2.4894796	0.226184232	-2.14443
EI24P2	1.100642416	0	0	-12.13092	FRRS1	117.0055412	620.0343841	0.188708149	-2.405771	ENSG000002	11.00642416	2.4894796	0.226184232	-2.14443
LINC01361	1.100642416	0	0	-12.13092	PCDHGB4	41.49132667	220.0122008	0.188586481	-2.406702	ENSG000002	11.00642416	2.4894796	0.226184232	-2.14443
NPM1P8	1.100642416	0	0	-12.13092	SLCO2B1	190.8601027	1012.278358	0.188545079	-2.407019	ATXN7L3-AS	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	TMEM144	43.15097974	228.9015827	0.188513243	-2.407262	ENSG000002	11.00642416	2.4894796	0.226184232	-2.14443
ENSG000002	1.100642416	0	0	-12.13092	GPR35	22.4053164	118.8954823	0.188445481	-2.407781	TPTEP1	11.00642416	2.4894796	0.226184232	-2.14443
LINC01134	1.100642416	0	0	-12.13092	SATB1	493.7467874	2623.478819	0.188203077	-2.409638	BEND6	33.01927249	7.4684388	0.226184232	-2.14443
CCDST	1.100642416	0	0	-12.13092	RLN2	31.53340827	167.7870824	0.187937044	-2.411679	SCARA3	227.8329802	51.44924507	0.225820007	-2.146755
TSPY12P	1.100642416	0	0	-12.13092	VWA1	66.38612267	353.3529286	0.187874834	-2.412156	NBEAL2	1971.250568	444.7870219	0.225636978	-2.147925
ENSG000002	1.100642416	0	0	-12.13092	SLC37A1	197.4987149	1052.280577	0.187686364	-2.413604	PIK3IP1	139.7815869	31.53340827	0.225590573	-2.148221
KCNMA1-AS	1.100642416	0	0	-12.13092	PTPN13	1309.46627	7009.27759	0.186819006	-2.420287	ZFP36L2	3323.940097	749.3333596	0.225435278	-2.149215
KRT43P	1.100642416	0	0	-12.13092	DMBT1	24.894796	133.3407278	0.186700616	-2.421201	DENND2B	1288.852269	290.4392867	0.225347228	-2.149778
GCNT1P1	1.100642416	0	0	-12.13092	MMP17	42.3211532	226.6792372	0.186700616	-2.421201	AGAP14P	84.74946605	19.08601027	0.22520508	-2.150689
LINC00896	1.100642416	0	0	-12.13092	GPR157	19.08601027	102.2278913	0.186700616	-2.421201	ST6GALNAC	73.74304189	16.59653067	0.225058938	-2.151625
ENSG000002	1.100642416	0	0	-12.13092	ZBTB11-AS1	11.61757147	62.22567296	0.186700616	-2.421201	FSTL3	136.4796596	30.70358173	0.224968188	-2.152207
HNRNPA1P5	1.100642416	0	0	-12.13092	ZBBX	83.81247987	448.9137835	0.186700616	-2.421201	GPNMB	3317.336243	746.0140535	0.22488346	-2.152751
ENSG000002	1.100642416	0	0	-12.13092	PIWIL2	28.21410213	151.1194915	0.186700616	-2.421201	ENSG000002	103.4603871	23.23514293	0.224580089	-2.154698
SNRPGP14	1.100642416	0	0	-12.13092	IL20RA	18.25618373	97.78320037	0.186700616	-2.421201	MIOS	1681.781612	377.5710727	0.224506601	-2.15517
ENSG000002	1.100642416	0	0	-12.13092	KCNMB4	14.10705107	75.55974574	0.186700616	-2.421201	PRNP	2403.803037	539.3872467	0.224389119	-2.155925
CHFR-DT	1.100642416	0	0	-12.13092	PAPOLB	8.298265334	44.44690926	0.186700616	-2.421201	FREM1	366.5139246	82.1528268	0.224146537	-2.157486
DLX2-DT	1.100642416	0	0	-12.13092	CYFIP1	8.298265334	44.44690926	0.186700616	-2.421201	EFCC1	40.7237694	9.128091867	0.224146537	-2.157486
FRGCA	1.100642416	0	0	-12.13092	SLC38A5	7.4684388	40.00221833	0.186700616	-2.421201	RHBDL2	40.7237694	9.128091867	0.224146537	-2.157486
PRKG1-AS1	1.100642416	0	0	-12.13092	CDKL4	7.4684388	40.00221833	0.186700616	-2.421201	PATL2	40.7237694	9.128091867	0.224146537	-2.157486
MTX1P1	1.100642416	0	0	-12.13092	RIMBP2	6.638612267	35.55752741	0.186700616	-2.421201	PLCL1	648.2783832	145.2196433	0.224008153	-2.158377
HNRNPA1P4	1.100642416	0	0	-12.13092	GZMB	5.808785734	31.11283648	0.186700616	-2.421201	CD52	111.164884	24.894796	0.223944784	-2.158785
CNOT4P1	1.100642416	0	0	-12.13092	TFDP1P2	5.808785734	31.11283648	0.186700616	-2.421201	FAM47E	70.44111464	15.76670413	0.223828147	-2.159537
SDK1-AS1	1.100642416	0	0	-12.13092	ENSG000002	5.808785734	31.11283648	0.186700616	-2.421201	NUDT13	29.71734524	6.638612267	0.223391834	-2.162352
LINC01844	1.100642416	0	0	-12.13092	CHRNA10	4.9789592	26.66814555	0.186700616	-2.421201	SFMBT2	442.4582514	98.74935747	0.223183447	-2.163698
ENSG000002	1.100642416	0	0	-12.13092	CES3	4.9789592	26.66814555	0.186700616	-2.421201	CELSR1	2945.319106	657.2226144	0.223141395	-2.16397
YRDCP2	1.100642416	0	0	-12.13092	TBPL2	4.9789592	26.66814555	0.186700616	-2.421201	AGAP13P	156.2912231	34.8527144	0.222998539	-2.164894
ENSG000002	1.100642416	0	0	-12.13092	HOXC4	4.9789592	26.66814555	0.186700616	-2.421201	PRKCD	1846.877975	411.5939605	0.222859315	-2.165795
ENSG000002	1.100642416	0	0	-12.13092	RPTN	4.9789592	26.66814555	0.186700616	-2.421201	ITGB6	145.284799	32.3632348	0.222757199	-2.166456
RPL19P16	1.100642416	0	0	-12.13092	IL21R-AS1	4.9789592	26.66814555	0.186700616	-2.421201	PLCB2	335.695937	74.684388	0.222476294	-2.168276
COX7A2P2	1.100642416	0	0	-12.13092	SLC28A2	4.149132667	22.22345463	0.186700616	-2.421201	EMB	526.107075	117.0055412	0.222398722	-2.16878
BCRP8	1.100642416	0	0	-12.13092	PDILT	4.149132667	22.22345463	0.186700616	-2.421201	CAB39L	635.0706742	141.0705107	0.222133562	-2.170501
ENSG000002	1.100642416	0	0	-12.13092	OR10H5	4.149132667	22.22345463	0.186700616	-2.421201	ST6GAL1	800.1670366	177.5828781	0.221932259	-2.171809
GAPDHP2	1.100642416	0	0	-12.13092	KRTAP5-10	4.149132667	22.22345463	0.186700616	-2.421201	MRNIP	56.13276323	12.447398	0.221749247	-2.172999
ENSG000002	1.100642416	0	0	-12.13092	WASH4P	4.149132667	22.22345463	0.186700616	-2.421201	CIART	130.9764475	29.04392867	0.221749247	-2.172999
ENSG000002	1.100642416	0	0	-12.13092	FGF21	3.319306133	17.7787637	0.186700616	-2.421201	SERPINI2	18.71092108	4.149132667	0.221749247	-2.172999
LINC02827	1.100642416	0	0	-12.13092	GPR87	3.319306133	17.7787637	0.186700616	-2.421201	TDRD10	18.71092108	4.149132667	0.221749247	-2.172999
LINC01378	1.100642416	0	0	-12.13092	CMTM2	3.319306133	17.7787637	0.186700616	-2.421201	TCEAL7	18.71092108	4.149132667	0.221749247	-2.172999
ZDHHC20-IT	1.100642416	0	0	-12.13092	PSG11	3.319306133	17.7787637	0.186700616	-2.421201	IDO2	18.71092108	4.149132667	0.221749247	-2.172999
GAPDHP51	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	17.7787637	0.186700616	-2.421201	GOLGA6L9	18.71092108	4.149132667	0.221749247	-2.172999
C3orf84	1.100642416	0	0	-12.13092	DYNC1I2	2.4894796	13.33407278	0.186700616	-2.421201	TMEM202-A	18.71092108	4.149132667	0.221749247	-2.172999
WASF3-AS1	1.100642416	0	0	-12.13092	GAPDHS	2.4894796	13.33407278	0.186700616	-2.421201	PDE9A	1547.503237	342.7183583	0.221465358	-2.174847
ENSG000002	1.100642416	0	0	-12.13092	PRDM13	2.4894796	13.33407278	0.186700616	-2.421201	PLSCR1	434.7537544	96.25987787	0.221412413	-2.175192
LINC01812	1.100642416	0	0	-12.13092	ATXN3L	2.4894796	13.33407278	0.186700616	-2.421201	PRICKLE1	397.3319123	87.96161254	0.221380689	-2.175399
ENSG000002	1.100642416	0	0	-12.13092	CD70	2.4894796	13.33407278	0.186700616	-2.421201	PLEKHH1	1373.601736	303.7165112	0.221109586	-2.177167
CASP3P1	1.100642416	0	0	-12.13092	SLC22A14	2.4894796	13.33407278	0.186700616	-2.421201	CFAP43	255.3490406	56.42820427	0.220984595	-2.177982
COX5BP6	1.100642416	0	0	-12.13092	MS4A5	2.4894796	13.33407278	0.186700616	-2.421201	NIPAL2	379.7216336	83.81247987	0.220720845	-2.179705
LINC01065	1.100642416	0	0	-12.13092	JSRP1	2.4894796	13.33407278	0.186700616	-2.421201	CUTA	45.12633907	9.9579184	0.220667544	-2.180054
LINC01056	1.100642416	0	0	-12.13092	OR1L6	2.4894796	13.33407278	0.186700616	-2.421201	F2RL1	206.9207743	45.64045934	0.22056973	-2.180693
ENSG000002	1.100642416	0	0	-12.13092	SLFNL1	2.4894796	13.33407278	0.186700616	-2.421201	IGFBP6	161.7944352	35.68254093	0.220542449	-2.180872
ENSG000002	1.100642416	0	0	-12.13092	MS4A10	2.4894796	13.33407278	0.186700616	-2.421201	NRG2	52.83083598	11.61757147	0.219901337	-2.185072
RPS20P9	1.100642416	0	0	-12.13092	GSTA3	2.4894796	13.33407278	0.186700616	-2.421201	KDELR3	192.6124229	42.3211532	0.219721826	-2.18625
SLC25A15P2	1.100642416	0	0	-12.13092	SLITRK2	2.4894796	13.33407278	0.186700616	-2.421201	EDARADD	389.6274154	85.47213294	0.219368888	-2.188569
ENSG000002	1.100642416	0	0	-12.13092	DTX2P1	2.4894796	13.33407278	0.186700616	-2.421201	FBXW4	484.2826632	106.2177963	0.219330165	-2.188824

VN1R66P	1.100642416	0	0	-12.13092	BPIFA1	2.4894796	13.33407278	0.186700616	-2.421201	PPP6R2	1075.327641	235.6707355	0.219161795	-2.189932
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	13.33407278	0.186700616	-2.421201	CSF2RB	136.4796596	29.8737552	0.218887967	-2.191735
BTF3P15	1.100642416	0	0	-12.13092	PRKCIP1	2.4894796	13.33407278	0.186700616	-2.421201	PCOTH	68.23982981	14.9368776	0.218887967	-2.191735
MBD3L5	1.100642416	0	0	-12.13092	FNTAP1	2.4894796	13.33407278	0.186700616	-2.421201	SIRPB2	34.11991491	7.4684388	0.218887967	-2.191735
ENSG000002	1.100642416	0	0	-12.13092	GAS2L2	2.4894796	13.33407278	0.186700616	-2.421201	ENSG000002	34.11991491	7.4684388	0.218887967	-2.191735
TRBV30	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	13.33407278	0.186700616	-2.421201	TIMP1	2636.038587	576.7294407	0.218786418	-2.192405
PPIAP67	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	13.33407278	0.186700616	-2.421201	SUOX	773.7516187	169.2846128	0.218784179	-2.19242
ENSG000002	1.100642416	0	0	-12.13092	TAC1	1.659653067	8.889381852	0.186700616	-2.421201	PEX11A	288.3683131	63.06681654	0.218702311	-2.19296
ENSG000002	1.100642416	0	0	-12.13092	LGALS14	1.659653067	8.889381852	0.186700616	-2.421201	CYTH4	186.0085684	40.66150013	0.218600146	-2.193634
ENSG000002	1.100642416	0	0	-12.13092	ZC2HC1B	1.659653067	8.889381852	0.186700616	-2.421201	NOSTRIN	75.94432672	16.59653067	0.21853549	-2.194061
ITPK1P1	1.100642416	0	0	-12.13092	PSG8	1.659653067	8.889381852	0.186700616	-2.421201	GXYLT2	159.5931504	34.8527144	0.218384776	-2.195056
PATE4	1.100642416	0	0	-12.13092	LPAR4	1.659653067	8.889381852	0.186700616	-2.421201	IL10RA	243.241974	53.10889814	0.218337721	-2.195367
LINC03062	1.100642416	0	0	-12.13092	C4orf19	1.659653067	8.889381852	0.186700616	-2.421201	BGN	4830.719565	1053.879697	0.218162053	-2.196528
CNN2P11	1.100642416	0	0	-12.13092	LMX1A	1.659653067	8.889381852	0.186700616	-2.421201	CSAD	236.6381195	51.44924507	0.217417402	-2.201461
NRBF2P3	1.100642416	0	0	-12.13092	EPB42	1.659653067	8.889381852	0.186700616	-2.421201	TBX5	129.8758051	28.21410213	0.217239093	-2.202644
XRCC6P1	1.100642416	0	0	-12.13092	PPIAP72	1.659653067	8.889381852	0.186700616	-2.421201	HLA-DQB1	680.1970133	147.7091229	0.217156383	-2.203194
ENSG000002	1.100642416	0	0	-12.13092	CLDN22	1.659653067	8.889381852	0.186700616	-2.421201	EBF4	493.0878025	107.0476228	0.217096473	-2.203592
LINC02790	1.100642416	0	0	-12.13092	CCR3	1.659653067	8.889381852	0.186700616	-2.421201	SELENOO	282.865101	61.40716347	0.217089925	-2.203635
CAMTA1-DT	1.100642416	0	0	-12.13092	SERPINA11	1.659653067	8.889381852	0.186700616	-2.421201	ADHFE1	72.64239948	15.76670413	0.217045475	-2.203931
ENSG000002	1.100642416	0	0	-12.13092	OR7D1P	1.659653067	8.889381852	0.186700616	-2.421201	TLR7	225.6316953	48.95976547	0.216989751	-2.204301
LINC01637	1.100642416	0	0	-12.13092	OR6K2	1.659653067	8.889381852	0.186700616	-2.421201	GRIK5	160.6937928	34.8527144	0.21688899	-2.204971
ENSG000002	1.100642416	0	0	-12.13092	GCC2-AS1	1.659653067	8.889381852	0.186700616	-2.421201	RORC	356.6081429	77.1738676	0.21641084	-2.208155
ENSG000002	1.100642416	0	0	-12.13092	C12orf71	1.659653067	8.889381852	0.186700616	-2.421201	TMEM119	118.869381	25.72462253	0.21641084	-2.208155
OR2L9P	1.100642416	0	0	-12.13092	LINC02449	1.659653067	8.889381852	0.186700616	-2.421201	ZNF540	188.2098532	40.66150013	0.216043419	-2.210607
UNC5B-AS1	1.100642416	0	0	-12.13092	HNRNPA1P	1.659653067	8.889381852	0.186700616	-2.421201	APRG1	46.22698148	9.9579184	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	CTAGE13P	1.659653067	8.889381852	0.186700616	-2.421201	GAL3ST1	30.81798766	6.638612267	0.215413555	-2.214819
MTCO3P17	1.100642416	0	0	-12.13092	GTF3C2-AS1	1.659653067	8.889381852	0.186700616	-2.421201	CLDN34	30.81798766	6.638612267	0.215413555	-2.214819
LINC01514	1.100642416	0	0	-12.13092	ALG1L15P	1.659653067	8.889381852	0.186700616	-2.421201	TMEM100	23.11349074	4.9789592	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	TUBAP14	1.659653067	8.889381852	0.186700616	-2.421201	OVCH2	23.11349074	4.9789592	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	SMAD1-AS1	1.659653067	8.889381852	0.186700616	-2.421201	SERPINC1	15.40899383	3.319306133	0.215413555	-2.214819
HMGN1P32	1.100642416	0	0	-12.13092	PTX4	1.659653067	8.889381852	0.186700616	-2.421201	CACNA1C	15.40899383	3.319306133	0.215413555	-2.214819
PDE7B-AS1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	8.889381852	0.186700616	-2.421201	DDX4	15.40899383	3.319306133	0.215413555	-2.214819
GCNT1P5	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	8.889381852	0.186700616	-2.421201	LDHAL6FP	15.40899383	3.319306133	0.215413555	-2.214819
ANKRD26P3	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	8.889381852	0.186700616	-2.421201	ENSG000002	15.40899383	3.319306133	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	8.889381852	0.186700616	-2.421201	STRC	15.40899383	3.319306133	0.215413555	-2.214819
HLCS-IT1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	8.889381852	0.186700616	-2.421201	ENSG000002	15.40899383	3.319306133	0.215413555	-2.214819
GSTA7P	1.100642416	0	0	-12.13092	MS4A12	0.829826533	4.444690926	0.186700616	-2.421201	MLC1	7.704496914	1.659653067	0.215413555	-2.214819
PRAMEF33	1.100642416	0	0	-12.13092	BRS3	0.829826533	4.444690926	0.186700616	-2.421201	ERI1	7.704496914	1.659653067	0.215413555	-2.214819
EEF1A1P28	1.100642416	0	0	-12.13092	ACE2	0.829826533	4.444690926	0.186700616	-2.421201	UGT2B10	7.704496914	1.659653067	0.215413555	-2.214819
CT75	1.100642416	0	0	-12.13092	OCM2	0.829826533	4.444690926	0.186700616	-2.421201	NEDD8	7.704496914	1.659653067	0.215413555	-2.214819
RNF216-IT1	1.100642416	0	0	-12.13092	AMHR2	0.829826533	4.444690926	0.186700616	-2.421201	KLK6	7.704496914	1.659653067	0.215413555	-2.214819
HEY2-AS1	1.100642416	0	0	-12.13092	CELA3A	0.829826533	4.444690926	0.186700616	-2.421201	KLHL30	7.704496914	1.659653067	0.215413555	-2.214819
EIF3JP3	1.100642416	0	0	-12.13092	SCGB1A1	0.829826533	4.444690926	0.186700616	-2.421201	OR2K2	7.704496914	1.659653067	0.215413555	-2.214819
SLC20A1-DT	1.100642416	0	0	-12.13092	SCN2B	0.829826533	4.444690926	0.186700616	-2.421201	CCDC185	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	TMEM174	0.829826533	4.444690926	0.186700616	-2.421201	ITLN1	7.704496914	1.659653067	0.215413555	-2.214819
LINC02877	1.100642416	0	0	-12.13092	UCMA	0.829826533	4.444690926	0.186700616	-2.421201	KCNK18	7.704496914	1.659653067	0.215413555	-2.214819
RPS15AP29	1.100642416	0	0	-12.13092	GJB1	0.829826533	4.444690926	0.186700616	-2.421201	PSG5	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	OR8B12	0.829826533	4.444690926	0.186700616	-2.421201	USP17L6P	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	CBLL2	0.829826533	4.444690926	0.186700616	-2.421201	TRAJ48	7.704496914	1.659653067	0.215413555	-2.214819
LINC00398	1.100642416	0	0	-12.13092	FKBP9P1	0.829826533	4.444690926	0.186700616	-2.421201	ARHGEF35	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	IMPDH2	0.829826533	4.444690926	0.186700616	-2.421201	OR5H1	7.704496914	1.659653067	0.215413555	-2.214819
LINC00844	1.100642416	0	0	-12.13092	GOLGA8Q	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
LINC02773	1.100642416	0	0	-12.13092	OR10Q1	0.829826533	4.444690926	0.186700616	-2.421201	SLC16A6P1	7.704496914	1.659653067	0.215413555	-2.214819
LRRC57P1	1.100642416	0	0	-12.13092	OR1G1	0.829826533	4.444690926	0.186700616	-2.421201	EEF1A1P3	7.704496914	1.659653067	0.215413555	-2.214819
SLC9A3P2	1.100642416	0	0	-12.13092	TREML4	0.829826533	4.444690926	0.186700616	-2.421201	ADAMTS9-A	7.704496914	1.659653067	0.215413555	-2.214819
BRWD1-AS1	1.100642416	0	0	-12.13092	MAGEB16	0.829826533	4.444690926	0.186700616	-2.421201	IGKV2D-29	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	CYP2A7P2	0.829826533	4.444690926	0.186700616	-2.421201	UGT1A7	7.704496914	1.659653067	0.215413555	-2.214819
RPL21P34	1.100642416	0	0	-12.13092	LRRC10	0.829826533	4.444690926	0.186700616	-2.421201	SEC24B-AS1	7.704496914	1.659653067	0.215413555	-2.214819
ENOX1-AS2	1.100642416	0	0	-12.13092	HSD3BP2	0.829826533	4.444690926	0.186700616	-2.421201	USP12P1	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	C1orf185	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
LINC00391	1.100642416	0	0	-12.13092	CFAP95	0.829826533	4.444690926	0.186700616	-2.421201	PPIAP4	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	OR5D16	0.829826533	4.444690926	0.186700616	-2.421201	AQP4-AS1	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	C18orf63	0.829826533	4.444690926	0.186700616	-2.421201	ADPGK-AS1	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	PPIAP30	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	IGLV2-11	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
RN7SKP198	1.100642416	0	0	-12.13092	TRAJ46	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
RNU7-57P	1.100642416	0	0	-12.13092	C1QBPP2	0.829826533	4.444690926	0.186700616	-2.421201	ADIRF-AS1	7.704496914	1.659653067	0.215413555	-2.214819
SNORD4A	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
RNU7-95P	1.100642416	0	0	-12.13092	AS3MT	0.829826533	4.444690926	0.186700616	-2.421201	HEPFAL	7.704496914	1.659653067	0.215413555	-2.214819
RNA5SP246	1.100642416	0	0	-12.13092	PRSS41	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
SNORA59A	1.100642416	0	0	-12.13092	NOC2LP2	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
ENSG000002	1.100642416	0	0	-12.13092	KRTAP10-10	0.829826533	4.444690926	0.186700616	-2.421201	CYP2G1P	7.704496914	1.659653067	0.215413555	-2.214819
RN7SL757P	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	ENSG000002	7.704496914	1.659653067	0.215413555	-2.214819
RPL35AP35	1.100642416	0	0	-12.13092	TNRC18P2	0.829826533	4.444690926	0.186700616	-2.421201	KCNA2	38.52248457	8.298265334	0.215413555	-2.214819
RBM43P1	1.100642416	0	0	-12.13092	PDSS1P2	0.829826533	4.444690926	0.186700616	-2.421201	ACACA	489.7858753	105.3879697	0.215171517	-2.216441
CLRN1-AS1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	SMOX	289.4689555	62.23699	0.215004023	-2.217564
ENSG000002	1.100642416	0	0	-12.13092	SPDYE21	0.829826533	4.444690926	0.186700616	-2.421201	RASGRP2	212.4239863	45.64045934	0.214855488	-2.218561
RN7SL11P	1.100642416	0	0	-12.13092	KLF3-AS1	0.829826533	4.444690926	0.186700616	-2.421201	ARHGEF6	650.479668	139.4108576	0.214320085	-2.222161
RPL35AP17	1.100642416	0	0	-12.13092	ITPR1-DT	0.829826533	4.444690926	0.186700616	-2.421201	TRAF1	104.5610295	22.4053164	0.214279799	-2.222432
LINC01119	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	FAM78A	81.44753881	17.4263572	0.213958058	-2.2246
ENSG000002	1.100642416	0	0	-12.13092	ACTG1P21	0.829826533	4.444690926	0.186700616	-2.421201	ARHGAP30	416.0428334	88.79143907	0.213418985	-2.22824
RN7SL414P	1.100642416	0	0	-12.13092	HNRNPA1P2	0.829826533	4.444690926	0.186700616	-2.421201	CPNE8	175.0021442	37.342194	0.213381351	-2.228494
RN7SL342P	1.100642416	0	0	-12.13092	MFN1P1	0.829826533	4.444690926	0.186700616	-2.421201	MX1	544.8179961	116.1757147	0.21323766	-2.229466
ENSG000002	1.100642416	0	0	-12.13092	RPL36AP15	0.829826533	4.444690926	0.186700616	-2.421201	LRRN1	2895.790197	617.3909408	0.213202925	-2.229701
LINC01210	1.100642416	0	0	-12.13092	C1DP2	0.829826533	4.444690926	0.186700616	-2.421201	SLC15A2	311.4818038	66.38612267	0.213130019	-2.230194
RPS23P7	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	ZNF783	366.5139246	78.00369414	0.212826004	-2.232254
SETP11	1.100642416	0	0	-12.13092	CNTN4-AS1	0.829826533	4.444690926	0.186700616	-2.421201	LOXL4	85.85010847	18.25618373	0.212651842	-2.233435
MTND1P16	1.100642416	0	0	-12.13092	MYADML	0.829826533	4.444690926	0.186700616	-2.421201	HPX	42.92505424	9.128091867	0.212651842	-2.233435
RPL35AP16	1.100642416	0	0	-12.13092	KRT8P36	0.829826533	4.444690926	0.186700616	-2.421201	HS3ST3B1	42.92505424	9.128091867	0.212651842	-2.233435
RPSAP41	1.100642416	0	0	-12.13092	OR14A2	0.829826533	4.444690926	0.186700616	-2.421201	FAM118A	456.7666028	97.0897044	0.212558676	-2.234067
HSPA5-DT	1.100642416	0	0	-12.13092	RPL7P19	0.829826533	4.444690926	0.186700616	-2.421201	RARG	226.7323378	48.12993894	0.212276464	-2.235984
RN7SL688P	1.100642416	0	0	-12.13092	BGLAP	0.829826533	4.444690926	0.186700616	-2.421201	GLT8D2	140.8822293	29.8737552	0.212047718	-2.237539
RPL21P118	1.100642416	0	0	-12.13092	SLC9A9-AS1	0.829826533	4.444690926	0.186700616	-2.421201	TOLLIP	35.22055732	7.4684388	0.212047718	-2.237539
CDRT15P5	1.100642416	0	0	-12.13092	GLDCP1	0.829826533	4.444690926	0.186700616	-2.421201	SULT1C4	35.22055732	7.4684388	0.212047718	-2.237539
RN7SL513P	1.100642416	0	0	-12.13092	SLC7A11-AS	0.829826533	4.444690926	0.186700616	-2.421201	EVC2	243.241974	51.44924507	0.211514667	-2.24117
RPS4XP22	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	CACHD1	1174.385458	248.1181335	0.211274869	-2.242807
PARLP1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	TNIP3	27.51606041	5.808785734	0.211105284	-2.243965
RN7SL608P	1.100642416	0	0	-12.13092	IGLL5	0.829826533	4.444690926	0.186700616	-2.421201	WDR64	27.51606041	5.808785734	0.211105284	-2.243965
PRDX3P4	1.100642416	0	0	-12.13092	C12orf71BP	0.829826533	4.444690926	0.186700616	-2.421201	RAD51AP2	27.51606041	5.808785734	0.211105284	-2.243965
ZBTB20-AS3	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	LAMTOR5P1	27.51606041	5.808785734	0.211105284	-2.243965
STIM2-AS1	1.100642416	0	0	-12.13092	NKX2-2-AS1	0.829826533	4.444690926	0.186700616	-2.421201	CSF2RA	27.51606041	5.808785734	0.211105284	-2.243965

LINC02004	1.100642416	0	0	-12.13092	PARP1P2	0.829826533	4.444690926	0.186700616	-2.421201	PSTPIP2	157.3918655	33.19306133	0.210894389	-2.245407
RN7SL254P	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	WWTR1	1326.274112	279.6515417	0.210855011	-2.245677
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	COG5	102.3597447	21.57548987	0.210781005	-2.246183
RPL23AP10	1.100642416	0	0	-12.13092	SLC9A3R1-/	0.829826533	4.444690926	0.186700616	-2.421201	WNT5A	878.3126482	185.0513169	0.210689573	-2.246809
ENSG000002	1.100642416	0	0	-12.13092	FARSA-AS1	0.829826533	4.444690926	0.186700616	-2.421201	IBTK	346.7023611	73.02473494	0.210626587	-2.247241
PSMB9	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	TXLNGY	47.3276239	9.9579184	0.210403937	-2.248766
RN7SL146P	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	H4C4	154.0899383	32.3632348	0.210028216	-2.251345
RN7SL771P	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	FAM153A	126.5738779	26.55444907	0.209794071	-2.252954
HNRNPA1P2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	ZFP36L1	4871.443335	1020.686636	0.209524481	-2.254809
RPL21P117	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	4.444690926	0.186700616	-2.421201	METTL24	59.43469048	12.447398	0.209429845	-2.255461
GAPDHP33	1.100642416	0	0	-12.13092	GTF2IRD1P1	0.829826533	4.444690926	0.186700616	-2.421201	NAAA	376.4197064	78.83352067	0.209429845	-2.255461
RPL29P18	1.100642416	0	0	-12.13092	GSN	1733.507628	9303.84928	0.186321551	-2.424134	IL12RB1	39.62312699	8.298265334	0.209429845	-2.255461
TCAM1P	1.100642416	0	0	-12.13092	SH3GLB2	623.1997266	3345.741094	0.186266573	-2.424559	CYP3A43	19.81156349	4.149132667	0.209429845	-2.255461
RPL36AP45	1.100642416	0	0	-12.13092	OSR1	82.1528268	441.1355744	0.186230337	-2.42484	MUC15	19.81156349	4.149132667	0.209429845	-2.255461
SEC62-AS1	1.100642416	0	0	-12.13092	SESN1	281.3111948	1513.41726	0.185878146	-2.427571	C16orf54	19.81156349	4.149132667	0.209429845	-2.255461
ENSG000002	1.100642416	0	0	-12.13092	PYROXD2	48.12993894	260.0144192	0.185104884	-2.433585	LRRD1	19.81156349	4.149132667	0.209429845	-2.255461
RN7SL116P	1.100642416	0	0	-12.13092	COG5	21.57548987	116.6731368	0.184922515	-2.435007	EIF4A3	99.05781747	20.74566333	0.209429845	-2.255461
ENSG000002	1.100642416	0	0	-12.13092	PCOLCE	198.3285415	1073.392859	0.184767897	-2.436214	UQCRC2	170.5995745	35.68254093	0.209159613	-2.257324
RN7SL69P	1.100642416	0	0	-12.13092	SBNO2	18.25618373	98.8943731	0.184602856	-2.437503	H4C13	130.9764475	27.3842756	0.209077862	-2.257888
ENSG000002	1.100642416	0	0	-12.13092	KIF26B	16.59653067	90.00499125	0.18439567	-2.439123	SLC22A5	242.1413316	50.61941854	0.209049063	-2.258087
LINC02067	1.100642416	0	0	-12.13092	PEX6	195.0092353	1058.947613	0.184153808	-2.441017	STEAP4	711.0150009	148.5389495	0.208911133	-2.259039
RPL9P15	1.100642416	0	0	-12.13092	SLC2A12	186.71097	1014.500704	0.184042228	-2.441891	RGS7BP	71.54175706	14.9368776	0.208785445	-2.259907
ENSG000002	1.100642416	0	0	-12.13092	CACNA1H	394.9974299	2146.785717	0.18399481	-2.442263	TSKU	453.4646755	94.6002248	0.208616525	-2.261075
RPL21P51	1.100642416	0	0	-12.13092	LRRC37A3	112.8564085	613.3673478	0.18399481	-2.442263	MYO16	63.83726015	13.27722453	0.207985501	-2.265445
ENSG000002	1.100642416	0	0	-12.13092	BAIAP2L2	14.10705107	76.67091847	0.18399481	-2.442263	CGAS	75.94432672	15.76670413	0.207608716	-2.268061
ENSG000002	1.100642416	0	0	-12.13092	CUL7	313.6744296	1705.650143	0.183903147	-2.442982	SPART	1611.340497	334.4200929	0.207541543	-2.268528
NECTIN2P1	1.100642416	0	0	-12.13092	ITGA9	13.27722453	72.22622754	0.183828299	-2.443569	CRACR2A	163.99572	34.02288787	0.207462048	-2.269081
RN7SL521P	1.100642416	0	0	-12.13092	PLPP4	101.2388371	551.1416748	0.183689316	-2.44466	NSF	44.02569665	9.128091867	0.207335546	-2.269961
ENSG000002	1.100642416	0	0	-12.13092	DCN	1559.244056	8491.582014	0.183622328	-2.445187	RND1	44.02569665	9.128091867	0.207335546	-2.269961
ENSG000002	1.100642416	0	0	-12.13092	VPS28	9.9579184	54.44746384	0.182890399	-2.450949	SMARCA1	3715.768797	769.2491964	0.20702289	-2.272138
RN7SL751P	1.100642416	0	0	-12.13092	LMNTD1	9.128091867	50.00277291	0.182551713	-2.453623	LCAT	172.8008594	35.68254093	0.206495159	-2.27582
LINC01994	1.100642416	0	0	-12.13092	GRID1	43.98080627	241.1244827	0.182398758	-2.454832	SHOC1	36.32119974	7.4684388	0.205622029	-2.281933
ZNF722	1.100642416	0	0	-12.13092	PTCH2	17.4263572	95.5608549	0.182358741	-2.455149	POLD4	36.32119974	7.4684388	0.205622029	-2.281933
ARHGAP31-/	1.100642416	0	0	-12.13092	JHY	8.298265334	45.55808199	0.182146942	-2.456825	LINC01145	60.5353329	12.447398	0.205622029	-2.281933
RPL32P32	1.100642416	0	0	-12.13092	HOXD13	7.4684388	41.11339106	0.181654653	-2.46073	PLPPR2	544.8179961	112.026582	0.205622029	-2.281933
RPL21P57	1.100642416	0	0	-12.13092	THTPA	22.4053164	123.3401732	0.181654653	-2.46073	CST7	48.42826632	9.9579184	0.205622029	-2.281933
RN7SL801P	1.100642416	0	0	-12.13092	WWC2	154.3477352	850.0471396	0.181575501	-2.461359	ADCYAP1R1	24.21413316	4.9789592	0.205622029	-2.281933
ENSG000002	1.100642416	0	0	-12.13092	NPDC1	93.77039827	516.6953201	0.181481029	-2.462109	GCOM1	24.21413316	4.9789592	0.205622029	-2.281933
SETP6	1.100642416	0	0	-12.13092	PCDHGB3	43.15097974	237.7909645	0.181466019	-2.462229	SLC2A3P2	24.21413316	4.9789592	0.205622029	-2.281933
IGKV3-11	1.100642416	0	0	-12.13092	ZDHHC1	28.21410213	155.5641824	0.181366313	-2.463022	MAG	12.10706658	2.4894796	0.205622029	-2.281933
RN7SL344P	1.100642416	0	0	-12.13092	BMPR1B	147.7091229	814.4896121	0.181351758	-2.463137	OPRM1	12.10706658	2.4894796	0.205622029	-2.281933
PLSCR5-AS1	1.100642416	0	0	-12.13092	ADD3	591.6663183	3267.959003	0.181050716	-2.465534	C16orf86	12.10706658	2.4894796	0.205622029	-2.281933
HSPA8P9	1.100642416	0	0	-12.13092	EDN1	6.638612267	36.66870014	0.181043021	-2.465596	MYOZ3	12.10706658	2.4894796	0.205622029	-2.281933
CA15P1	1.100642416	0	0	-12.13092	CASQ2	6.638612267	36.66870014	0.181043021	-2.465596	TVP23A	12.10706658	2.4894796	0.205622029	-2.281933
ACTG1P20	1.100642416	0	0	-12.13092	ENAM	6.638612267	36.66870014	0.181043021	-2.465596	TMEM266	12.10706658	2.4894796	0.205622029	-2.281933
ZBTB20-AS1	1.100642416	0	0	-12.13092	GDPD4	6.638612267	36.66870014	0.181043021	-2.465596	ZNF223	12.10706658	2.4894796	0.205622029	-2.281933
CORT	1.100642416	0	0	-12.13092	TPCN1	258.0760519	1425.634614	0.181025383	-2.465736	OR13D1	12.10706658	2.4894796	0.205622029	-2.281933
ENSG000002	1.100642416	0	0	-12.13092	ARRB1	325.2920011	1798.988652	0.180819374	-2.467379	ZPBP2	12.10706658	2.4894796	0.205622029	-2.281933
RPL13P8	1.100642416	0	0	-12.13092	ITM2A	38.17202053	211.122819	0.180804807	-2.467495	TMPRSS11A	12.10706658	2.4894796	0.205622029	-2.281933
CADM2-AS2	1.100642416	0	0	-12.13092	MVP	151.0284291	835.601894	0.180742086	-2.467996	TRAJ41	12.10706658	2.4894796	0.205622029	-2.281933
GM2AP1	1.100642416	0	0	-12.13092	MTUS1	405.7851748	2246.791263	0.180606531	-2.469078	PMS2P7	12.10706658	2.4894796	0.205622029	-2.281933
IGKV1-9	1.100642416	0	0	-12.13092	CCDC158	18.25618373	101.1167186	0.180545651	-2.469564	RGS17P1	12.10706658	2.4894796	0.205622029	-2.281933
RN7SL83P	1.100642416	0	0	-12.13092	NRP1	1628.119658	9028.278443	0.180335561	-2.471244	AURKAP2	12.10706658	2.4894796	0.205622029	-2.281933
ENSG000002	1.100642416	0	0	-12.13092	PEX10	52.2790716	290.0160829	0.180262664	-2.471827	TNRC18P1	12.10706658	2.4894796	0.205622029	-2.281933
RN7SL390P	1.100642416	0	0	-12.13092	TREM2	11.61757147	64.44801842	0.180262664	-2.471827	ENSG000002	12.10706658	2.4894796	0.205622029	-2.281933
ENSG000002	1.100642416	0	0	-12.13092	ALDH3B2	5.808785734	32.22400921	0.180262664	-2.471827	ENSG000002	12.10706658	2.4894796	0.205622029	-2.281933
RBBP4P7	1.100642416	0	0	-12.13092	RAD51AP2	5.808785734	32.22400921	0.180262664	-2.471827	ENSG000002	12.10706658	2.4894796	0.205622029	-2.281933
RPL21P54	1.100642416	0	0	-12.13092	CLIC6	39.8316736	221.1233736	0.180133258	-2.472864	GOLM1	6817.379127	1397.427882	0.204980221	-2.286443
ENSG000002	1.100642416	0	0	-12.13092	TRIB1	382.5500319	2125.673435	0.179966511	-2.4742	HERC6	619.6616804	126.9634596	0.204891578	-2.287067
WDR70P1	1.100642416	0	0	-12.13092	CD151	109.5371024	608.9226568	0.179886725	-2.474839	LDLRAD4	708.8137161	145.2196433	0.204877022	-2.28717
HNRNPA1P2	1.100642416	0	0	-12.13092	ATAD3C	10.78774493	60.0033275	0.179785778	-2.475649	ADAMTSL4	141.9828717	29.04392867	0.204559383	-2.289408
ENSG000002	1.100642416	0	0	-12.13092	TRMT44	69.7054288	387.7992833	0.179746152	-2.475967	LRG1	81.44753881	16.59653067	0.203769579	-2.294989
RNF13P1	1.100642416	0	0	-12.13092	RETREG1	96.25987787	535.5852566	0.179728394	-2.47611	MGP	5303.995804	1077.11484	0.203076111	-2.299908
LRRC78P	1.100642416	0	0	-12.13092	DVL1	249.7777865	1390.077087	0.179686284	-2.476448	AAAS	28.61670282	5.808785734	0.20298585	-2.300549
RPL5P13	1.100642416	0	0	-12.13092	FLNB	3686.089461	20516.69331	0.179662941	-2.476635	SH3TC2	28.61670282	5.808785734	0.20298585	-2.300549
SERBP1P3	1.100642416	0	0	-12.13092	GAK	608.262849	3389.076831	0.179477445	-2.478126	TTTY14	28.61670282	5.808785734	0.20298585	-2.300549
HOXB-AS4	1.100642416	0	0	-12.13092	AMY2B	147.7091229	823.378994	0.179393844	-2.478798	TLR5	499.691657	101.2388371	0.202602616	-2.303275
RN7SL57P	1.100642416	0	0	-12.13092	XPNPEP2	4.9789592	27.77931829	0.179232591	-2.480095	PTPN22	237.7387619	48.12993894	0.20244885	-2.304371
ENSG000002	1.100642416	0	0	-12.13092	ASB16	4.9789592	27.77931829	0.179232591	-2.480095	SBNO2	90.25267814	18.25618373	0.202278582	-2.305585
RN7SL683P	1.100642416	0	0	-12.13092	OLR1	4.9789592	27.77931829	0.179232591	-2.480095	ECM1	255.3490406	51.44924507	0.201485954	-2.311249
RBMY1E	1.100642416	0	0	-12.13092	LMF1	104.5581432	583.365684	0.179232591	-2.480095	TRIM22	577.8372686	116.1757147	0.201052651	-2.314355
ENSG000002	1.100642416	0	0	-12.13092	SLC16A9	32.3632348	181.1211552	0.178682798	-2.484527	MXRA8	445.7601786	89.6212656	0.201052651	-2.314355
DBIL5P2	1.100642416	0	0	-12.13092	CA3	18.25618373	102.2278913	0.178583198	-2.485332	PROSER2	49.52890873	9.9579184	0.201052651	-2.314355
RPL18P1	1.100642416	0	0	-12.13092	HS3ST3B1	9.128091867	51.11394565	0.178583198	-2.485332	PNMA8B	33.01927249	6.638612267	0.201052651	-2.314355
UPK3BP1	1.100642416	0	0	-12.13092	C3orf20	9.128091867	51.11394565	0.178583198	-2.485332	CLXN	16.50963624	3.319306133	0.201052651	-2.314355
UGT1A10	1.100642416	0	0	-12.13092	WTIP	29.04392867	163.3423915	0.17781011	-2.491591	PLCH2	16.50963624	3.319306133	0.201052651	-2.314355
ENSG000002	1.100642416	0	0	-12.13092	SPATA31A1	8.298265334	46.66925472	0.17781011	-2.491591	SVOPL	16.50963624	3.319306133	0.201052651	-2.314355
ENSG000002	1.100642416	0	0	-12.13092	PRKCQ	4.149132667	23.33462736	0.17781011	-2.491591	CTLA4	16.50963624	3.319306133	0.201052651	-2.314355
ENSG000002	1.100642416	0	0	-12.13092	CYP17A1	4.149132667	23.33462736	0.17781011	-2.491591	OR1A1	16.50963624	3.319306133	0.201052651	-2.314355
MED28P8	1.100642416	0	0	-12.13092	MSLNL	4.149132667	23.33462736	0.17781011	-2.491591	NSRP1P1	16.50963624	3.319306133	0.201052651	-2.314355
RPL21P129	1.100642416	0	0	-12.13092	PRAMEF14	4.149132667	23.33462736	0.17781011	-2.491591	CCNL2P1	16.50963624	3.319306133	0.201052651	-2.314355
PDE6B-AS1	1.100642416	0	0	-12.13092	PSG4	4.149132667	23.33462736	0.17781011	-2.491591	NANOGP8	16.50963624	3.319306133	0.201052651	-2.314355
CNTF	1.100642416	0	0	-12.13092	APBB3	65.55629614	368.9093468	0.177702996	-2.49246	ENSG000002	16.50963624	3.319306133	0.201052651	-2.314355
ICE2P2	1.100642416	0	0	-12.13092	SYNGR1	43.15097974	243.3468282	0.177322959	-2.495549	AKAP12	1842.475405	370.1026339	0.200872496	-2.315648
RN7SL432P	1.100642416	0	0	-12.13092	TBX18	11.61757147	65.55919115	0.177207364	-2.49649	TMBIM1	570.1327716	114.5160616	0.200858585	-2.315748
ENSG000002	1.100642416	0	0	-12.13092	PTGER4	19.08601027	107.7837549	0.177076873	-2.497552	SLC16A2	202.5182046	40.66150013	0.200779482	-2.316316
ENSG000002	1.100642416	0	0	-12.13092	SPHK1	14.9368776	84.44912759	0.176874268	-2.499204	ZNF862	574.5353413	115.3458881	0.200763782	-2.316429
MRPL42P6	1.100642416	0	0	-12.13092	NOP9	14.9368776	84.44912759	0.176874268	-2.499204	CYTIP	152.9892959	30.70358173	0.200691045	-2.316952
RPL23AP68	1.100642416	0	0	-12.13092	LDOC1	7.4684388	42.22456379	0.176874268	-2.499204	SORBS1	4908.865177	984.1742686	0.200489163	-2.318404
RN7SL749P	1.100642416	0	0	-12.13092	SULT1C4	7.4684388	42.22456379	0.176874268	-2.499204	SAMD9L	1188.69381	238.1602151	0.200354551	-2.319373
RN7SL233P	1.100642416	0	0	-12.13092	ABCG1	163.4758271	924.4957126	0.176827026	-2.499589	GALNT5	91.35332055	18.25618373	0.19984149	-2.323072
RPS15AP18	1.100642416	0	0	-12.13092	ENPP5	538.5574202	3046.83563	0.176759591	-2.50014	SMIM14	369.8158519	73.85456147	0.199706316	-2.324048
RN7SL16P	1.100642416	0	0	-12.13092	PCOLCE2	18.25618373	103.339064	0.176662948	-2.500929	AGPAT1	37.42184215	7.4684388	0.199574323	-2.325002
ENSG000002	1.100642416	0	0	-12.13092	MST1	21.57548987	122.2290005	0.176516946	-2.502121	RBMS2	1010.389738	200.8180211	0.198753029	-2.330951
ENSG000002	1.100642416	0	0	-12.13092	MARVELD1	20.74566333	117.7843095	0.176132657	-2.505266	GLYATL1	162.8950776	32.3632348	0.198675339	-2.331515
MTAPP1	1.100642416	0	0	-12.13092	PCOLCE-AS	6.638612267	37.77987287	0.175718227	-2.508664	NEDD9	2138.548215	424.8711851	0.198672717	-2.331534
ENSG000002	1.100642416	0	0	-12.13092	CCR7	3.319306133	18.88993643	0.175718227	-2.508664	P2RY1	183.8072835	36.51236747	0.198644835	-2.331737
LINC02932	1.100642416	0	0	-12.13092	DSG1	3.319306133	18.88993643	0.175718227	-2.508664	PPP3CA	6730.428376	1336.020719	0.198504559	-2.332756
RFKP6	1.100642416	0	0	-12.13092	CACNA1C	3.319306133	18.88993643	0.175718227	-2.508664	CACNB2	543.7173537	107.8774493	0.198407221	-2.333464
RN7SL558P	1.100642416	0	0	-12.13092	PI16	3.319306133	18.88993643	0.175718227	-2.508664	FCGR2B	41.82441182	8.298265334	0.198407221	-2.333464
ENSG000002	1.100642416	0	0	-12.13092	RUFY4	3.319306133	18.88993643	0.175718227	-2.508664	TLR10	41.82441182	8.298265334	0.198407221	-2.333464

CFAP20DC-I	1.100642416	0	0	-12.13092	TUBA3C	3.319306133	18.88993643	0.175718227	-2.508664	UBXN10	20.91220591	4.149132667	0.198407221	-2.333464
FGF14-IT1	1.100642416	0	0	-12.13092	STYXL2	3.319306133	18.88993643	0.175718227	-2.508664	BMPR1B	745.1349158	147.7091229	0.19823138	-2.334743
RN7SL173P	1.100642416	0	0	-12.13092	HNRNPA1P1	3.319306133	18.88993643	0.175718227	-2.508664	LAYN	217.9271984	43.15097974	0.198006399	-2.336381
RPL23AP49	1.100642416	0	0	-12.13092	APOBEC3G	9.9579184	56.6698093	0.175718227	-2.508664	SGSH	679.0963709	134.4318984	0.197957027	-2.336741
ENSG000002	1.100642416	0	0	-12.13092	USP20	129.4529392	736.7075209	0.175718227	-2.508664	RGS10	570.1327716	112.8564085	0.197947591	-2.33681
INGX	1.100642416	0	0	-12.13092	KCNAB1	19.08601027	108.8949277	0.175269966	-2.512349	KIF12	134.2783748	26.55444907	0.197756706	-2.338201
RPL7P51	1.100642416	0	0	-12.13092	CSGALNAC	53.10889814	303.3501557	0.17507457	-2.513959	MATN2	1130.359762	223.2233375	0.197479904	-2.340222
ENSG000002	1.100642416	0	0	-12.13092	ASTN2	1662.142546	9504.971545	0.17487086	-2.515638	PRRX2	92.45396297	18.25618373	0.197462425	-2.34035
RN7SL19P	1.100642416	0	0	-12.13092	SP5	63.89664307	365.5758286	0.174783555	-2.516359	LIMA1	2166.064275	426.5308382	0.196915135	-2.344354
RN7SL364P	1.100642416	0	0	-12.13092	HSF4	36.51236747	208.9004735	0.174783555	-2.516359	ALDH1A2	375.319064	73.85456147	0.196778071	-2.345359
RPL21P115	1.100642416	0	0	-12.13092	MYBPC3	14.9368776	85.56030032	0.174577199	-2.518063	H1-1	25.31477557	4.9789592	0.196681941	-2.346064
PLSCR4P1	1.100642416	0	0	-12.13092	CCDC162P	14.9368776	85.56030032	0.174577199	-2.518063	TRDN	25.31477557	4.9789592	0.196681941	-2.346064
RN7SL542P	1.100642416	0	0	-12.13092	PRELP	511.1731446	2929.05132	0.17451833	-2.51855	DKK3	751.7387703	147.7091229	0.196489963	-2.347472
RN7SL638P	1.100642416	0	0	-12.13092	TMEM132B	5.808785734	33.33518194	0.174253908	-2.520737	STAT4	181.6059987	35.68254093	0.196483273	-2.347522
CACNA2D3-	1.100642416	0	0	-12.13092	ZHX2	201.6478476	1157.841986	0.174158348	-2.521528	TMLHE	156.2912231	30.70358173	0.196451094	-2.347758
RN7SL393P	1.100642416	0	0	-12.13092	ENSG000002	31.53340827	181.1211552	0.174101188	-2.522002	CLIP3	401.7344819	78.83352067	0.196232896	-2.349361
TMEM35B	1.100642416	0	0	-12.13092	TLL1	28.21410213	162.2312188	0.173912902	-2.523563	VSTM4	173.9015018	34.02288787	0.195644589	-2.353693
OR7E89P	1.100642416	0	0	-12.13092	MCC	107.0476228	615.5896932	0.173894436	-2.523716	NTN4	624.06425	121.9845004	0.195467855	-2.354997
LINC02044	1.100642416	0	0	-12.13092	ADAM8	75.51421454	434.468538	0.173808246	-2.524432	HOXC5	29.71734524	5.808785734	0.195467855	-2.354997
ENSG000002	1.100642416	0	0	-12.13092	ABHD1	8.298265334	47.78042745	0.173674992	-2.525538	TBC1D10C	29.71734524	5.808785734	0.195467855	-2.354997
RN7SL30P	1.100642416	0	0	-12.13092	BAIAP3	185.0513169	1065.614649	0.173656882	-2.525689	SLC22A4	29.71734524	5.808785734	0.195467855	-2.354997
RPL5P17	1.100642416	0	0	-12.13092	ARRDC1	104.5581432	602.2556204	0.173610905	-2.526071	MAN1A1	1108.346913	216.5847252	0.195412395	-2.355406
RN7SL464P	1.100642416	0	0	-12.13092	ATP2C2	43.15097974	248.9026918	0.173364858	-2.528117	SATB2	548.1199233	107.0476228	0.195299638	-2.356239
HMGB1P38	1.100642416	0	0	-12.13092	GABRR2	10.78774493	62.22567296	0.173364858	-2.528117	SPON1	498.5910146	97.0897044	0.194728147	-2.360467
RPL23AP65	1.100642416	0	0	-12.13092	BACH2	15.76670413	91.11616398	0.173039595	-2.530826	FHL2	439.1563241	85.47213294	0.194628036	-2.361209
FAM20BP1	1.100642416	0	0	-12.13092	PMEL	15.76670413	91.11616398	0.173039595	-2.530826	ERMAP	272.9593192	53.10889814	0.194567082	-2.36166
RPS2P41	1.100642416	0	0	-12.13092	PCDHGA2	77.1738676	446.691438	0.172767734	-2.533094	APLF	175.0021442	34.02288787	0.19441412	-2.362795
ENSG000002	1.100642416	0	0	-12.13092	C4orf48	19.9158368	115.5619641	0.17233903	-2.536679	TMEM79	111.164884	21.57548987	0.19408548	-2.365236
ENSG000002	1.100642416	0	0	-12.13092	SLFN12L	9.9579184	57.78098203	0.17233903	-2.536679	ORAI3	42.92505424	8.298265334	0.193319857	-2.370938
RPSAP51	1.100642416	0	0	-12.13092	QPRT	4.9789592	28.89049102	0.17233903	-2.536679	OSMR	1452.84799	280.4813683	0.193056239	-2.372907
RN7SL397P	1.100642416	0	0	-12.13092	GOT2P2	4.9789592	28.89049102	0.17233903	-2.536679	TAFA5	47.3276239	9.128091867	0.192870276	-2.374297
ENSG000002	1.100642416	0	0	-12.13092	TUBA4B	4.9789592	28.89049102	0.17233903	-2.536679	FAM149A	193.7130653	37.342194	0.192770653	-2.375043
EIF4EP3	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	28.89049102	0.17233903	-2.536679	INTS3	116.6680961	22.4053164	0.192043216	-2.380497
ENSG000002	1.100642416	0	0	-12.13092	RS1	2.4894796	14.44524551	0.17233903	-2.536679	ELL2	1668.573903	320.3130419	0.191968148	-2.381061
RN7SL130P	1.100642416	0	0	-12.13092	BMP15	2.4894796	14.44524551	0.17233903	-2.536679	PSMB10	60.5353329	11.61757147	0.191913894	-2.381469
ENSG000002	1.100642416	0	0	-12.13092	CHCT1	2.4894796	14.44524551	0.17233903	-2.536679	ITPK1	125.4732355	24.06496947	0.191793647	-2.382373
RN7SL762P	1.100642416	0	0	-12.13092	HIPK4	2.4894796	14.44524551	0.17233903	-2.536679	CTSH	1353.790172	258.9058784	0.191245205	-2.386505
ENSG000002	1.100642416	0	0	-12.13092	ABCD2	2.4894796	14.44524551	0.17233903	-2.536679	ITGA11	782.556758	149.368776	0.19087277	-2.389317
ENSG000002	1.100642416	0	0	-12.13092	HTR3C	2.4894796	14.44524551	0.17233903	-2.536679	AGAP9	274.0599617	52.2790716	0.190757786	-2.390186
ENSG000002	1.100642416	0	0	-12.13092	NLRP8	2.4894796	14.44524551	0.17233903	-2.536679	ACTR3C	187.1092108	35.68254093	0.190704353	-2.39059
RN7SL359P	1.100642416	0	0	-12.13092	RNLS	2.4894796	14.44524551	0.17233903	-2.536679	CRISPLD1	518.4025781	98.74935747	0.190487782	-2.39223
TM4SF18-AS	1.100642416	0	0	-12.13092	PDE6G	2.4894796	14.44524551	0.17233903	-2.536679	MCCC2	1155.674537	219.0742048	0.189563928	-2.399244
RPL21P128	1.100642416	0	0	-12.13092	GK2	2.4894796	14.44524551	0.17233903	-2.536679	PDE3B	693.4047223	131.1125923	0.189085231	-2.402891
LINC01213	1.100642416	0	0	-12.13092	C22orf42	2.4894796	14.44524551	0.17233903	-2.536679	ANGPTL1	101.2591023	19.08601027	0.18848686	-2.407464
KCNK15-AS1	1.100642416	0	0	-12.13092	BTBD18	2.4894796	14.44524551	0.17233903	-2.536679	ADAMTSL1	356.6081429	67.2159492	0.18848686	-2.407464
POLR2DP2	1.100642416	0	0	-12.13092	MYO5BP2	2.4894796	14.44524551	0.17233903	-2.536679	PRICKLE2	294.9721676	55.59837774	0.18848686	-2.407464
PSPC1P2	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	14.44524551	0.17233903	-2.536679	CCDC160	61.63597531	11.61757147	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	14.44524551	0.17233903	-2.536679	CD200R1	52.83083598	9.9579184	0.18848686	-2.407464
MTHFD2P1	1.100642416	0	0	-12.13092	OSBPL10	206.6268068	1201.177723	0.172020179	-2.53935	PHLDA3	52.83083598	9.9579184	0.18848686	-2.407464
RPL10AP1	1.100642416	0	0	-12.13092	ANXA3	74.684388	434.468538	0.171898265	-2.540373	TMEM132B	30.81798766	5.808785734	0.18848686	-2.407464
NT5C3AP2	1.100642416	0	0	-12.13092	ENSG000002	49.789592	290.0160829	0.171678727	-2.542217	EFHC2	154.0899383	29.04392867	0.18848686	-2.407464
RPSAP29	1.100642416	0	0	-12.13092	FAM83H	18.25618373	106.6725822	0.171142231	-2.546732	MT1G	39.62312699	7.4684388	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CLCN7	429.8501443	2516.806237	0.17079191	-2.549688	ABCB5	35.22055732	6.638612267	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	FAM184B	13.27722453	77.7820912	0.170697706	-2.550484	ENSG000002	35.22055732	6.638612267	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TCN2	93.77039827	550.0305021	0.170482179	-2.552307	CLCA1	22.01284833	4.149132667	0.18848686	-2.407464
IGFBP7-AS1	1.100642416	0	0	-12.13092	DNAH1	258.9058784	1521.195469	0.170198954	-2.554706	AMY2A	22.01284833	4.149132667	0.18848686	-2.407464
BMAL2-AS1	1.100642416	0	0	-12.13092	SZT2	999.1111462	5873.659058	0.170100296	-2.555542	NEFM	17.61027866	3.319306133	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	NISCH	697.8841146	4106.894415	0.16992989	-2.556988	LINC01036	17.61027866	3.319306133	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TMEM175	104.5581432	615.5896932	0.16985038	-2.557664	LINC01409	17.61027866	3.319306133	0.18848686	-2.407464
LINC00461	1.100642416	0	0	-12.13092	CILP	12.447398	73.33740027	0.169727833	-2.558705	CNTNAP3P2	17.61027866	3.319306133	0.18848686	-2.407464
DACT3-AS1	1.100642416	0	0	-12.13092	DNAAF1	12.447398	73.33740027	0.169727833	-2.558705	SLC13A1	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	DYTN	8.298265334	48.89160018	0.169727833	-2.558705	HSD17B2	8.80513933	1.659653067	0.18848686	-2.407464
LINC02226	1.100642416	0	0	-12.13092	CYP3A43	4.149132667	24.44580009	0.169727833	-2.558705	ATP1B4	8.80513933	1.659653067	0.18848686	-2.407464
LINC02202	1.100642416	0	0	-12.13092	ODAM	4.149132667	24.44580009	0.169727833	-2.558705	EDN3	8.80513933	1.659653067	0.18848686	-2.407464
LINC00682	1.100642416	0	0	-12.13092	GOLGA6A	4.149132667	24.44580009	0.169727833	-2.558705	ADCY4	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CADM3	4.149132667	24.44580009	0.169727833	-2.558705	SLC25A52	8.80513933	1.659653067	0.18848686	-2.407464
TTBK2-AS1	1.100642416	0	0	-12.13092	HPSE2	4.149132667	24.44580009	0.169727833	-2.558705	MARVELD2	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	NLRP13	4.149132667	24.44580009	0.169727833	-2.558705	TMEM190	8.80513933	1.659653067	0.18848686	-2.407464
PRR7-AS1	1.100642416	0	0	-12.13092	LGMNP1	4.149132667	24.44580009	0.169727833	-2.558705	GPATCH4	8.80513933	1.659653067	0.18848686	-2.407464
LACTB2-AS1	1.100642416	0	0	-12.13092	TMEM202-A	4.149132667	24.44580009	0.169727833	-2.558705	LAIR1	8.80513933	1.659653067	0.18848686	-2.407464
UBE2D3-AS1	1.100642416	0	0	-12.13092	SCX	14.10705107	83.33795486	0.169275225	-2.562557	BTNL3	8.80513933	1.659653067	0.18848686	-2.407464
TNFRSF10A-	1.100642416	0	0	-12.13092	NPAS2	107.0476228	633.3684569	0.169013189	-2.564792	TAS1R3	8.80513933	1.659653067	0.18848686	-2.407464
PLA2G4E-AS	1.100642416	0	0	-12.13092	ZNF862	115.3458881	683.3712298	0.1687895	-2.566703	NEUROD2	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	PLG	5.808785734	34.44635467	0.168632814	-2.568043	FGG	8.80513933	1.659653067	0.18848686	-2.407464
GPR176-DT	1.100642416	0	0	-12.13092	UBAP1L	5.808785734	34.44635467	0.168632814	-2.568043	OR2M7	8.80513933	1.659653067	0.18848686	-2.407464
LINC00920	1.100642416	0	0	-12.13092	LRP1	4247.052198	25210.28693	0.168465048	-2.569479	OR52N4	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ERMAP	53.10889814	315.5730557	0.168293513	-2.570949	DCAF4L1	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ZNF534	13.27722453	78.89326393	0.168293513	-2.570949	ADAP2	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ALOX15B	14.9368776	88.89381852	0.168030554	-2.573205	CDHR4	8.80513933	1.659653067	0.18848686	-2.407464
LY6E-DT	1.100642416	0	0	-12.13092	PPP1R42	7.4684388	44.44690926	0.168030554	-2.573205	NKAIN2	8.80513933	1.659653067	0.18848686	-2.407464
SNCA-AS1	1.100642416	0	0	-12.13092	ZC3H12D	7.4684388	44.44690926	0.168030554	-2.573205	HMGA2-AS1	8.80513933	1.659653067	0.18848686	-2.407464
DGAT2-DT	1.100642416	0	0	-12.13092	DOCK10	273.842756	1631.20157	0.167877938	-2.574515	TRAV38-1	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	LSAMP	194.1794088	1160.064332	0.167386759	-2.578743	TRAJ24	8.80513933	1.659653067	0.18848686	-2.407464
SYBU-AS1	1.100642416	0	0	-12.13092	PMP22	366.7833277	2196.78849	0.166963424	-2.582396	ATE1OSP	8.80513933	1.659653067	0.18848686	-2.407464
MARCOL	1.100642416	0	0	-12.13092	EVA1B	15.76670413	94.44968217	0.166932315	-2.582665	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
LINC02150	1.100642416	0	0	-12.13092	SEMA5A	63.89664307	383.3545923	0.166677651	-2.584867	RPL31P46	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	RGMB	72.1949084	433.3573653	0.166594396	-2.585588	OSMR-DT	8.80513933	1.659653067	0.18848686	-2.407464
SLIT2-IT1	1.100642416	0	0	-12.13092	FAM186A	9.9579184	60.0033275	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ABHD12B	4.9789592	30.00166375	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	LHCGR	4.9789592	30.00166375	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
NOL8P1	1.100642416	0	0	-12.13092	POU3F1	4.9789592	30.00166375	0.165956103	-2.591126	FABP5P9	8.80513933	1.659653067	0.18848686	-2.407464
TUB-AS1	1.100642416	0	0	-12.13092	ENSG000002	4.9789592	30.00166375	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	SGK2	33.19306133	200.0110917	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
FGF10-AS1	1.100642416	0	0	-12.13092	OR14K1	13.27722453	80.00443666	0.165956103	-2.591126	ENSG000002	8.80513933	1.659653067	0.18848686	-2.407464
LINC01962	1.100642416	0	0	-12.13092	MYH7	8.298265334	50.00277291	0.165956103	-2.591126	CYP2B7P	8.80513933	1.659653067	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	RHBDL1	8.298265334	50.00277291	0.165956103	-2.591126	MARCO	4.402569665	0.829826533	0.18848686	-2.407464
OR5H4P	1.100642416	0	0	-12.13092	PDLIM4	8.298265334	50.00277291	0.165956103	-2.591126	FKBP6	4.402569665	0.829826533	0.18848686	-2.407464
LINC02267	1.100642416	0	0	-12.13092	SLC5A12	3.319306133	20.00110917	0.165956103	-2.591126	TGM1	4.402569665	0.829826533	0.18848686	-2.407464
PPP1R3B-DT	1.100642416	0	0	-12.13092	FBXO40	3.319306133	20.00110917	0.165956103	-2.591126	CRX	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	RNASE8	3.319306133	20.00110917	0.165956103	-2.591126	FGF8	4.402569665	0.829826533	0.18848686	-2.407464
LINC01339	1.100642416	0	0	-12.13092	DCAF4L2	3.319306133	20.00110917	0.165956103	-2.591126	IL23A	4.402569665	0.829826533	0.18848686	-2.407464

NPM1P21	1.100642416	0	0	-12.13092	TBC1D28	3.319306133	20.00110917	0.165956103	-2.591126	TPO	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TRGC2	3.319306133	20.00110917	0.165956103	-2.591126	ZP4	4.402569665	0.829826533	0.18848686	-2.407464
ANKRD49P3	1.100642416	0	0	-12.13092	EPC1-AS2	3.319306133	20.00110917	0.165956103	-2.591126	TTR	4.402569665	0.829826533	0.18848686	-2.407464
GAPDHP40	1.100642416	0	0	-12.13092	ALDH1A3-A	3.319306133	20.00110917	0.165956103	-2.591126	DEFB129	4.402569665	0.829826533	0.18848686	-2.407464
RBM14-RBM	1.100642416	0	0	-12.13092	APOH	1.659653067	10.00055458	0.165956103	-2.591126	GALR3	4.402569665	0.829826533	0.18848686	-2.407464
ARHGAP22-I	1.100642416	0	0	-12.13092	UGT2B10	1.659653067	10.00055458	0.165956103	-2.591126	AMHR2	4.402569665	0.829826533	0.18848686	-2.407464
LINC02100	1.100642416	0	0	-12.13092	PRAMEF1	1.659653067	10.00055458	0.165956103	-2.591126	IL36RN	4.402569665	0.829826533	0.18848686	-2.407464
LINC02144	1.100642416	0	0	-12.13092	HCRTR2	1.659653067	10.00055458	0.165956103	-2.591126	ABCG5	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	IFNA5	1.659653067	10.00055458	0.165956103	-2.591126	SCN2B	4.402569665	0.829826533	0.18848686	-2.407464
PSMC1P4	1.100642416	0	0	-12.13092	HTR5A	1.659653067	10.00055458	0.165956103	-2.591126	CNTNAP4	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	OR2M5	1.659653067	10.00055458	0.165956103	-2.591126	ANKRD61	4.402569665	0.829826533	0.18848686	-2.407464
LINC02511	1.100642416	0	0	-12.13092	KLK5	1.659653067	10.00055458	0.165956103	-2.591126	CCDC27	4.402569665	0.829826533	0.18848686	-2.407464
SEPTIN7P10	1.100642416	0	0	-12.13092	CXCL11	1.659653067	10.00055458	0.165956103	-2.591126	SCN3B	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	WNT10B	1.659653067	10.00055458	0.165956103	-2.591126	BPIFB6	4.402569665	0.829826533	0.18848686	-2.407464
MTND5P11	1.100642416	0	0	-12.13092	SDR9C7	1.659653067	10.00055458	0.165956103	-2.591126	AQP2	4.402569665	0.829826533	0.18848686	-2.407464
PDCD6-DT	1.100642416	0	0	-12.13092	OR6C2	1.659653067	10.00055458	0.165956103	-2.591126	VGLL2	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	OR56B4	1.659653067	10.00055458	0.165956103	-2.591126	IRX1	4.402569665	0.829826533	0.18848686	-2.407464
MTCYBP40	1.100642416	0	0	-12.13092	TEX56P	1.659653067	10.00055458	0.165956103	-2.591126	CSN3	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CNR2	1.659653067	10.00055458	0.165956103	-2.591126	UTF1	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TMEM225	1.659653067	10.00055458	0.165956103	-2.591126	OR5B12	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	10.00055458	0.165956103	-2.591126	OR5AR1	4.402569665	0.829826533	0.18848686	-2.407464
LINC02758	1.100642416	0	0	-12.13092	GOLGA6L5I	1.659653067	10.00055458	0.165956103	-2.591126	OR4S2	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	COX7CP2	1.659653067	10.00055458	0.165956103	-2.591126	ISX	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ANKRD34C	1.659653067	10.00055458	0.165956103	-2.591126	OR51G2	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	10.00055458	0.165956103	-2.591126	AGTR2	4.402569665	0.829826533	0.18848686	-2.407464
LINC01033	1.100642416	0	0	-12.13092	ERVV-2	1.659653067	10.00055458	0.165956103	-2.591126	RNF135	4.402569665	0.829826533	0.18848686	-2.407464
NDUFB2P1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	10.00055458	0.165956103	-2.591126	SYNDIG1L	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	10.00055458	0.165956103	-2.591126	TRIM69	4.402569665	0.829826533	0.18848686	-2.407464
EPIST	1.100642416	0	0	-12.13092	OR52R1	1.659653067	10.00055458	0.165956103	-2.591126	OR2L13	4.402569665	0.829826533	0.18848686	-2.407464
TNPO1-DT	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	10.00055458	0.165956103	-2.591126	OR6M1	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	PDCL3P2	1.659653067	10.00055458	0.165956103	-2.591126	RPS26P11	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CCNG2	692.0753288	4185.787679	0.16533933	-2.596498	S100A7L2	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	BLNK	29.8737552	181.1211552	0.164937967	-2.600005	AKR1B10	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	PDLIM5	864.6792478	5245.846465	0.164831215	-2.600939	SNORA70.1	4.402569665	0.829826533	0.18848686	-2.407464
SLC25A15P5	1.100642416	0	0	-12.13092	CAPN8	12.447398	75.55974574	0.164735838	-2.601774	KPRP	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	EME2	50.61941854	307.7948466	0.164458304	-2.604206	DPRX	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ZNF662	19.9158368	121.1178277	0.16443357	-2.604423	PCDHA7	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ALDH2	68.87560227	420.0232925	0.163980435	-2.608404	TRAV39	4.402569665	0.829826533	0.18848686	-2.407464
SPATS1	1.100642416	0	0	-12.13092	VIPR2	11.61757147	71.11505481	0.163363039	-2.613846	TRDJ2	4.402569665	0.829826533	0.18848686	-2.407464
NEUROG2-A	1.100642416	0	0	-12.13092	AFP	5.808785734	35.55752741	0.163363039	-2.613846	TERF1P4	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ANKRD16	72.1949084	442.2467471	0.163245765	-2.614883	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
MIR302CHG	1.100642416	0	0	-12.13092	CPED1	67.2159492	413.3562561	0.162610214	-2.62051	PDIA3P2	4.402569665	0.829826533	0.18848686	-2.407464
EEF1A1P21	1.100642416	0	0	-12.13092	CIITA	53.10889814	326.684783	0.162569244	-2.620874	DAP3P1	4.402569665	0.829826533	0.18848686	-2.407464
LINC01234	1.100642416	0	0	-12.13092	GXYLT2	34.8527144	214.4563372	0.162516598	-2.621341	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
MTATP6P22	1.100642416	0	0	-12.13092	PIEZO1	725.2683902	4465.803208	0.162404915	-2.622333	FRG2B	4.402569665	0.829826533	0.18848686	-2.407464
RPL7L1P4	1.100642416	0	0	-12.13092	MAST4	619.8804204	3817.989505	0.162357812	-2.622751	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CAPN3	4.149132667	25.55697282	0.162348362	-2.622835	R3HDML-AS	4.402569665	0.829826533	0.18848686	-2.407464
LINC00942	1.100642416	0	0	-12.13092	DCC	4.149132667	25.55697282	0.162348362	-2.622835	SLC2A1-DT	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	DPP7	308.6954704	1902.327716	0.162272498	-2.62351	ZBTB47-AS1	4.402569665	0.829826533	0.18848686	-2.407464
MTND6P17	1.100642416	0	0	-12.13092	CASP10	23.23514293	143.3412824	0.162096659	-2.625074	EEF1B2P1	4.402569665	0.829826533	0.18848686	-2.407464
LINC02112	1.100642416	0	0	-12.13092	SOCS7	19.08601027	117.7843095	0.162042044	-2.62556	SYT15-AS1	4.402569665	0.829826533	0.18848686	-2.407464
LINC02972	1.100642416	0	0	-12.13092	COCH	731.0771759	4521.361844	0.161694021	-2.628662	MTND5P15	4.402569665	0.829826533	0.18848686	-2.407464
LINC02021	1.100642416	0	0	-12.13092	ENSG000002	6.638612267	41.11339106	0.161470803	-2.630655	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	NTN4	121.9845004	755.5974574	0.161441121	-2.63092	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
LGALS16	1.100642416	0	0	-12.13092	DCDC2	15.76670413	97.78320037	0.161241441	-2.632706	KMT5AP2	4.402569665	0.829826533	0.18848686	-2.407464
OR7E83P	1.100642416	0	0	-12.13092	BCAS4	25.72462253	160.0088733	0.160769975	-2.63693	TONSL-AS1	4.402569665	0.829826533	0.18848686	-2.407464
LINC02501	1.100642416	0	0	-12.13092	POLD4	7.4684388	46.66925472	0.160029099	-2.643594	KRT8P39	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	HPS5	9.9579184	62.22567296	0.160029099	-2.643594	GDI2P2	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	PROSER2	9.9579184	62.22567296	0.160029099	-2.643594	RPL34-DT	4.402569665	0.829826533	0.18848686	-2.407464
XBP1P1	1.100642416	0	0	-12.13092	ADGRF3	9.9579184	62.22567296	0.160029099	-2.643594	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
CDC42P4	1.100642416	0	0	-12.13092	ACSM2B	4.9789592	31.11283648	0.160029099	-2.643594	IFNA17	4.402569665	0.829826533	0.18848686	-2.407464
SLC41A3-AS	1.100642416	0	0	-12.13092	PCK1	4.9789592	31.11283648	0.160029099	-2.643594	PEF1-AS1	4.402569665	0.829826533	0.18848686	-2.407464
IGKV1D-37	1.100642416	0	0	-12.13092	OR10K1	4.9789592	31.11283648	0.160029099	-2.643594	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TFAP2A-AS	4.9789592	31.11283648	0.160029099	-2.643594	FAM21FP	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CCDC198	2.4894796	15.55641824	0.160029099	-2.643594	CNTN4-AS1	4.402569665	0.829826533	0.18848686	-2.407464
SH3TC2-DT	1.100642416	0	0	-12.13092	HHLA2	2.4894796	15.55641824	0.160029099	-2.643594	LINC01410	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	GALNT8	2.4894796	15.55641824	0.160029099	-2.643594	LINC00886	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	C1orf94	2.4894796	15.55641824	0.160029099	-2.643594	UGT1A9	4.402569665	0.829826533	0.18848686	-2.407464
NREP-AS1	1.100642416	0	0	-12.13092	PLAAT5	2.4894796	15.55641824	0.160029099	-2.643594	HMGN1P8	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	KLK15	2.4894796	15.55641824	0.160029099	-2.643594	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
RHOQ-AS1	1.100642416	0	0	-12.13092	OR13D1	2.4894796	15.55641824	0.160029099	-2.643594	THAP12P2	4.402569665	0.829826533	0.18848686	-2.407464
LINC02232	1.100642416	0	0	-12.13092	SLC25A41	2.4894796	15.55641824	0.160029099	-2.643594	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	NUDT11	2.4894796	15.55641824	0.160029099	-2.643594	HAS2-AS1	4.402569665	0.829826533	0.18848686	-2.407464
GAPDHP43	1.100642416	0	0	-12.13092	AKR1B15	2.4894796	15.55641824	0.160029099	-2.643594	TOX4P1	4.402569665	0.829826533	0.18848686	-2.407464
HOXC-AS2	1.100642416	0	0	-12.13092	EBF3-AS1	2.4894796	15.55641824	0.160029099	-2.643594	LINC01018	4.402569665	0.829826533	0.18848686	-2.407464
SLC1A3-AS1	1.100642416	0	0	-12.13092	CCDC17	36.51236747	228.9015827	0.159511206	-2.64827	TMEM30BP1	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	SLC16A4	15.76670413	98.8943731	0.159429739	-2.649007	RTEL1P1	4.402569665	0.829826533	0.18848686	-2.407464
LINC02199	1.100642416	0	0	-12.13092	PSG7	8.298265334	52.22511838	0.158894141	-2.653862	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	C19orf38	5.808785734	36.66870014	0.158412644	-2.658241	RNA5SP92	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	HID1	248.1181335	1567.864724	0.158252258	-2.659702	WWP1-AS1	4.402569665	0.829826533	0.18848686	-2.407464
RDH10-AS1	1.100642416	0	0	-12.13092	LMX1B	20.74566333	131.1183823	0.158220861	-2.659988	SUGT1P4-ST	4.402569665	0.829826533	0.18848686	-2.407464
SALL4P1	1.100642416	0	0	-12.13092	PTGFR	14.9368776	94.44968217	0.158146404	-2.660667	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
USP38-DT	1.100642416	0	0	-12.13092	PEX11A	63.06681654	398.9110106	0.158097457	-2.661114	SNRPA1-DT	4.402569665	0.829826533	0.18848686	-2.407464
LINC00989	1.100642416	0	0	-12.13092	UTRN	4736.649852	29964.99505	0.158072773	-2.661339	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	AVIL	21.57548987	136.674246	0.157860683	-2.663276	CDH3-AS1	4.402569665	0.829826533	0.18848686	-2.407464
FTLP10	1.100642416	0	0	-12.13092	SPOCK2	23.23514293	147.7859733	0.157221571	-2.669129	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TRIM6	6.638612267	42.22456379	0.157221571	-2.669129	LINC00621	4.402569665	0.829826533	0.18848686	-2.407464
LINC01332	1.100642416	0	0	-12.13092	TXNDC2	6.638612267	42.22456379	0.157221571	-2.669129	ARHGAP44-J	4.402569665	0.829826533	0.18848686	-2.407464
LRRC34P2	1.100642416	0	0	-12.13092	C1orf167	6.638612267	42.22456379	0.157221571	-2.669129	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
LINC02701	1.100642416	0	0	-12.13092	PROX2	3.319306133	21.1122819	0.157221571	-2.669129	SNORA35B	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ASCL5	3.319306133	21.1122819	0.157221571	-2.669129	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	21.1122819	0.157221571	-2.669129	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
LINC02121	1.100642416	0	0	-12.13092	KLHL2P1	3.319306133	21.1122819	0.157221571	-2.669129	OR13C2	4.402569665	0.829826533	0.18848686	-2.407464
LINC01303	1.100642416	0	0	-12.13092	MRGPRF	9.9579184	63.33684569	0.157221571	-2.669129	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
HPRT1P2	1.100642416	0	0	-12.13092	SEPTIN6	34.02288787	216.6786826	0.157020005	-2.67098	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
LINC02492	1.100642416	0	0	-12.13092	GSTP1	38.17202053	243.3468282	0.156862618	-2.672427	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	RAMP2	43.15097974	275.5708374	0.156587613	-2.674958	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	KLF4	90.45109214	577.8098203	0.156541286	-2.675385	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	CCDC159	43.98080627	281.1267011	0.156444785	-2.676275	PCBP2-OT1	4.402569665	0.829826533	0.18848686	-2.407464
HNRNPKP5	1.100642416	0	0	-12.13092	TIMP1	576.7294407	3689.093468	0.156333648	-2.6773	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
TPM3P6	1.100642416	0	0	-12.13092	GTF2H2C	7.4684388	47.78042745	0.156307492	-2.677541	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464

MSRB3-AS1	1.100642416	0	0	-12.13092	ANK3	852.2318498	5459.19163	0.156109532	-2.679369	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	H6PD	133.6020719	856.7141759	0.155947077	-2.680872	PCSEAT	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	AFF2	44.8106328	287.7937374	0.155703989	-2.683122	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TRO	20.74566333	133.3407278	0.155583847	-2.684236	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ALG1L12P	1.100642416	0	0	-12.13092	AGAP10P	8.298265334	53.33629111	0.155583847	-2.684236	ENSG000002	4.402569665	0.829826533	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	TMEM40	4.149132667	26.66814555	0.155583847	-2.684236	ZNF300P1	4.402569665	0.829826533	0.18848686	-2.407464
KRT18P54	1.100642416	0	0	-12.13092	FAM131B	4.149132667	26.66814555	0.155583847	-2.684236	EIF3C	321.3875856	60.57733694	0.18848686	-2.407464
LSM3P4	1.100642416	0	0	-12.13092	MFSD2B	4.149132667	26.66814555	0.155583847	-2.684236	ANXA8	26.41541799	4.9789592	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	PRRT3-AS1	4.149132667	26.66814555	0.155583847	-2.684236	SLC12A3	13.207709	2.4894796	0.18848686	-2.407464
METTL21EP	1.100642416	0	0	-12.13092	ACOXL	34.02288787	218.9010281	0.155425893	-2.685701	BPI	13.207709	2.4894796	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	OLFML3	123.6441535	795.5996757	0.15541001	-2.685849	IL1A	13.207709	2.4894796	0.18848686	-2.407464
HMGB3P15	1.100642416	0	0	-12.13092	NRIP1	1154.288708	7445.968473	0.155021971	-2.689455	CD244	13.207709	2.4894796	0.18848686	-2.407464
UGT2B26P	1.100642416	0	0	-12.13092	GUCA1B	9.128091867	58.89215477	0.154996738	-2.68969	NKX2-4	13.207709	2.4894796	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	SULF2	220.7338579	1426.745787	0.154711414	-2.692348	HERC3	13.207709	2.4894796	0.18848686	-2.407464
RMEL3	1.100642416	0	0	-12.13092	PLPP1	440.6378892	2850.158056	0.154601212	-2.693376	AGR3	13.207709	2.4894796	0.18848686	-2.407464
FAM76AP1	1.100642416	0	0	-12.13092	MOV10L1	9.9579184	64.44801842	0.154510855	-2.69422	ENTHD1	13.207709	2.4894796	0.18848686	-2.407464
SLC25A30-A	1.100642416	0	0	-12.13092	TNFAIP8L2	9.9579184	64.44801842	0.154510855	-2.69422	SPATC1	13.207709	2.4894796	0.18848686	-2.407464
NDUFB5P1	1.100642416	0	0	-12.13092	PRSS12	9.9579184	64.44801842	0.154510855	-2.69422	MANSC4	13.207709	2.4894796	0.18848686	-2.407464
ZNF969P	1.100642416	0	0	-12.13092	IGKV1OR2-	4.9789592	32.22400921	0.154510855	-2.69422	HMGN2P15	13.207709	2.4894796	0.18848686	-2.407464
PRKG2-AS1	1.100642416	0	0	-12.13092	PLEKHA6	219.9040313	1424.523442	0.154370244	-2.695533	ZNF451-AS1	13.207709	2.4894796	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	GPR156	15.76670413	102.2278913	0.154230944	-2.696836	CCDC144NL	13.207709	2.4894796	0.18848686	-2.407464
NUDT19P5	1.100642416	0	0	-12.13092	TMEM59	737.7157882	4790.265645	0.154003106	-2.698969	PPIAP41	13.207709	2.4894796	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	RHOJ	44.8106328	291.1272556	0.153921118	-2.699737	TTC39A-AS1	13.207709	2.4894796	0.18848686	-2.407464
ENSG000002	1.100642416	0	0	-12.13092	SYNGAP1	17.4263572	113.3396186	0.153753448	-2.701309	EEF1DP7	13.207709	2.4894796	0.18848686	-2.407464
ABITRAMP1	1.100642416	0	0	-12.13092	GLP1R	5.808785734	37.77987287	0.153753448	-2.701309	HYMAI	13.207709	2.4894796	0.18848686	-2.407464
PDCD5P2	1.100642416	0	0	-12.13092	RASSF2	117.8353677	766.7091847	0.153689782	-2.701907	COLEC12	2498.458285	469.6818179	0.187988657	-2.411282
MRPS30-DT	1.100642416	0	0	-12.13092	MYO7B	6.638612267	43.33573653	0.153190249	-2.706604	ENTPD5	1440.740923	270.5234499	0.187766895	-2.412985
ENSG000002	1.100642416	0	0	-12.13092	LRRC7	113.6862351	744.4857301	0.152704384	-2.711187	NR2F1	773.7516187	145.2196433	0.187682507	-2.413634
LINC00589	1.100642416	0	0	-12.13092	DOCK8-AS1	8.298265334	54.44746384	0.152408666	-2.713983	TRPM4	751.7387703	141.0705107	0.187658953	-2.413815
ENSG000002	1.100642416	0	0	-12.13092	UBA7	34.8527144	228.9015827	0.152260696	-2.715385	CYTH3	1001.584599	187.5407965	0.18724409	-2.417008
ENSG000002	1.100642416	0	0	-12.13092	HPX	9.128091867	60.0033275	0.152126428	-2.716657	PLPP5	1504.578183	281.3111948	0.186970141	-2.41912
ENSG000002	1.100642416	0	0	-12.13092	TSNAXIP1	9.9579184	65.55919115	0.151892027	-2.718882	SPOCK2	124.372593	23.23514293	0.186818835	-2.420288
ENSG000002	1.100642416	0	0	-12.13092	PLEKHA4	29.04392867	192.2328825	0.151087204	-2.726547	ADAMTS1	950.9550477	177.5828781	0.186741612	-2.420885
RFPL4AP3	1.100642416	0	0	-12.13092	ERMARD	15.76670413	104.4502368	0.150949434	-2.727863	MARVELD1	111.164884	20.74566333	0.186620654	-2.421819
PSMA2P2	1.100642416	0	0	-12.13092	MPZL2	63.89664307	423.3568107	0.150928582	-2.728062	SMARCD3	213.5246288	39.8316736	0.186543697	-2.422414
GTF2F2P1	1.100642416	0	0	-12.13092	CACNA1G	56.42820427	374.4652105	0.150690111	-2.730343	IFFO1	102.3597447	19.08601027	0.18646012	-2.423061
LINC02228	1.100642416	0	0	-12.13092	CFAP43	56.42820427	374.4652105	0.150690111	-2.730343	ACSS1	1150.171325	214.0952456	0.186142048	-2.425524
TUBB7P	1.100642416	0	0	-12.13092	IFFO1	19.08601027	126.6736914	0.150670672	-2.730529	TM4SF1	521.7045053	97.0897044	0.186100951	-2.425843
ENSG000002	1.100642416	0	0	-12.13092	CNTNAP2	163.4758271	1090.06045	0.149969506	-2.737259	BACH2	84.74946605	15.76670413	0.186038979	-2.426323
ENSG000002	1.100642416	0	0	-12.13092	ADORA2B	43.98080627	293.3496011	0.149926252	-2.737675	TMEM273	71.54175706	13.27722453	0.185587062	-2.429832
ENSG000002	1.100642416	0	0	-12.13092	C16orf89	55.59837774	371.1316923	0.14980768	-2.738817	DOCK4	3594.698132	665.5208798	0.185139574	-2.433315
YTHDF1P1	1.100642416	0	0	-12.13092	GJB2	73.02473494	487.8048291	0.149700722	-2.739847	CARD11	183.8072835	34.02288787	0.185100869	-2.433616
ENSG000002	1.100642416	0	0	-12.13092	FBXW9	74.684388	498.9165564	0.149693144	-2.73992	GSTM1	121.0706658	22.4053164	0.185059826	-2.433936
NUP58P1	1.100642416	0	0	-12.13092	CCDC154	10.78774493	72.22622754	0.149360493	-2.74313	TFEC	166.1970049	30.70358173	0.18474088	-2.436416
FKBP4P1	1.100642416	0	0	-12.13092	SHC2	165.1354801	1105.616868	0.149360493	-2.74313	AHNAK	82121.13196	15169.22903	0.184717729	-2.436606
ENSG000002	1.100642416	0	0	-12.13092	C2orf16	9.9579184	66.67036389	0.149360493	-2.74313	ZNF462	7554.809545	1394.938403	0.184642431	-2.437194
ASNSP4	1.100642416	0	0	-12.13092	GABRA6	4.9789592	33.33518194	0.149360493	-2.74313	TAPBPL	323.5888704	59.7475104	0.18464019	-2.437211
MTCO1P31	1.100642416	0	0	-12.13092	RPH3A	2.4894796	16.66759097	0.149360493	-2.74313	TOB2	1197.498949	220.7338579	0.184329062	-2.439645
ENSG000002	1.100642416	0	0	-12.13092	ARL5C	2.4894796	16.66759097	0.149360493	-2.74313	TXLNB	49.52890873	9.128091867	0.184298263	-2.439886
OR7E28P	1.100642416	0	0	-12.13092	LYZL4	2.4894796	16.66759097	0.149360493	-2.74313	FAS	490.8865177	90.45109214	0.184260697	-2.44018
CFAP53P1	1.100642416	0	0	-12.13092	FEV	2.4894796	16.66759097	0.149360493	-2.74313	SNRK-AS1	94.6552478	17.4263572	0.184103445	-2.441411
ENSG000002	1.100642416	0	0	-12.13092	IL31RA	2.4894796	16.66759097	0.149360493	-2.74313	RASA4B	45.12633907	8.298265334	0.18388962	-2.443088
LINC02201	1.100642416	0	0	-12.13092	TMEM266	2.4894796	16.66759097	0.149360493	-2.74313	CYBRD1	1219.511797	224.053164	0.183723654	-2.444391
ENSG000002	1.100642416	0	0	-12.13092	RIIAD1	2.4894796	16.66759097	0.149360493	-2.74313	PDGFRA	506.2955115	92.94057174	0.183569812	-2.445599
C5orf64-AS1	1.100642416	0	0	-12.13092	TEX33	2.4894796	16.66759097	0.149360493	-2.74313	SYT10	40.7237694	7.4684388	0.183392621	-2.446993
ENSG000002	1.100642416	0	0	-12.13092	OR5AC1	2.4894796	16.66759097	0.149360493	-2.74313	IL1RAPL1	40.7237694	7.4684388	0.183392621	-2.446993
LINC02278	1.100642416	0	0	-12.13092	UGT2B25P	2.4894796	16.66759097	0.149360493	-2.74313	SLCO1A2	77.04496914	14.10705107	0.183101521	-2.449284
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	16.66759097	0.149360493	-2.74313	CNNM1	222.3297681	40.66150013	0.182888241	-2.450966
RNU6-998P	1.100642416	0	0	-12.13092	VWFP1	2.4894796	16.66759097	0.149360493	-2.74313	A2ML1	108.9635992	19.9158368	0.182775137	-2.451858
RNU2-13P	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	16.66759097	0.149360493	-2.74313	C2orf72	72.64239948	13.27722453	0.182775137	-2.451858
RNU7-41P	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	16.66759097	0.149360493	-2.74313	HNMT	463.3704573	84.6423064	0.182666601	-2.452715
Y_RNA.115	1.100642416	0	0	-12.13092	ROS1	8.298265334	55.55863657	0.149360493	-2.74313	THBS2	2939.815894	536.0679406	0.182347453	-2.455238
RNU6-1053P	1.100642416	0	0	-12.13092	SLC6A15	8.298265334	55.55863657	0.149360493	-2.74313	KLF5	2310.248432	420.7220524	0.182111173	-2.457109
RNU4-29P	1.100642416	0	0	-12.13092	HTR7	6.638612267	44.44690926	0.149360493	-2.74313	SPTSSB	63.83726015	11.61757147	0.181987313	-2.45809
RNU6-999P	1.100642416	0	0	-12.13092	GABRB3	6.638612267	44.44690926	0.149360493	-2.74313	MMP26	31.91863007	5.808785734	0.181987313	-2.45809
RNA5SP217	1.100642416	0	0	-12.13092	BHLHE40-A	4.149132667	27.77931829	0.149360493	-2.74313	CROT	406.1370516	73.85456147	0.181846402	-2.459208
RNU6-1294P	1.100642416	0	0	-12.13092	CHAT	3.319306133	22.22345463	0.149360493	-2.74313	HFE	86.95075089	15.76670413	0.181329131	-2.463317
RNU6-518P	1.100642416	0	0	-12.13092	BMX	3.319306133	22.22345463	0.149360493	-2.74313	MESP1	86.95075089	15.76670413	0.181329131	-2.463317
RNU7-71P	1.100642416	0	0	-12.13092	PAMR1	3.319306133	22.22345463	0.149360493	-2.74313	TRIP6	141.9828717	25.72462253	0.181181168	-2.464495
RNU6-351P	1.100642416	0	0	-12.13092	OR4C15	3.319306133	22.22345463	0.149360493	-2.74313	RBFOX1	27.51606041	4.9789592	0.180947386	-2.466358
RNU6-1219P	1.100642416	0	0	-12.13092	GALNTL5	1.659653067	11.11172731	0.149360493	-2.74313	MYO1H	27.51606041	4.9789592	0.180947386	-2.466358
RNA5SP154	1.100642416	0	0	-12.13092	HCRTR1	1.659653067	11.11172731	0.149360493	-2.74313	GALNT3	2211.190614	399.1465625	0.180512055	-2.469833
Y_RNA.118	1.100642416	0	0	-12.13092	C4BPB	1.659653067	11.11172731	0.149360493	-2.74313	PARD3B	1034.603871	186.71097	0.180466143	-2.4702
RNA5SP228	1.100642416	0	0	-12.13092	RAET1L	1.659653067	11.11172731	0.149360493	-2.74313	CREB3L4	464.4710997	83.81247987	0.180447136	-2.470352
ENSG000002	1.100642416	0	0	-12.13092	WFDC8	1.659653067	11.11172731	0.149360493	-2.74313	RPS4Y1	782.556758	141.0705107	0.180268727	-2.471779
SNORA72.2	1.100642416	0	0	-12.13092	OTOP1	1.659653067	11.11172731	0.149360493	-2.74313	ZNF516	447.9614634	80.49317374	0.179687719	-2.476436
ENSG000002	1.100642416	0	0	-12.13092	GAP43	1.659653067	11.11172731	0.149360493	-2.74313	MB21D2	69.34047223	12.447398	0.179511296	-2.477853
RNA5SP262	1.100642416	0	0	-12.13092	PDZK1	1.659653067	11.11172731	0.149360493	-2.74313	NCMAP	46.22698148	8.298265334	0.179511296	-2.477853
RNA5SP61	1.100642416	0	0	-12.13092	GPR152	1.659653067	11.11172731	0.149360493	-2.74313	ANXA2P2	23.11349074	4.149132667	0.179511296	-2.477853
RNU2-34P	1.100642416	0	0	-12.13092	EIF4E1B	1.659653067	11.11172731	0.149360493	-2.74313	PDZRN3	1517.785892	272.1831029	0.179329051	-2.479319
RNU6-1256P	1.100642416	0	0	-12.13092	OR2M7	1.659653067	11.11172731	0.149360493	-2.74313	WNT7B	602.0514017	107.8774493	0.179183121	-2.480493
ENSG000002	1.100642416	0	0	-12.13092	CCDC185	1.659653067	11.11172731	0.149360493	-2.74313	PPM1K	352.2055732	63.06681654	0.179062517	-2.481465
ENSG000002	1.100642416	0	0	-12.13092	MOB2	1.659653067	11.11172731	0.149360493	-2.74313	ZC3H12A	366.5139246	65.55629614	0.178864408	-2.483062
RNA5SP168	1.100642416	0	0	-12.13092	OTOP3	1.659653067	11.11172731	0.149360493	-2.74313	LYZ	1434.137068	256.4163988	0.178794904	-2.483622
SNORA70.4	1.100642416	0	0	-12.13092	C6orf58	1.659653067	11.11172731	0.149360493	-2.74313	PRKXP1	41.82441182	7.4684388	0.178566499	-2.485467
RNA5SP82	1.100642416	0	0	-12.13092	RNF222	1.659653067	11.11172731	0.149360493	-2.74313	MACC1	466.6723845	82.98265334	0.177817793	-2.491528
RNU6-783P	1.100642416	0	0	-12.13092	ADH7	1.659653067	11.11172731	0.149360493	-2.74313	XBP1	2983.841591	530.2591548	0.177710223	-2.492401
RNU7-28P	1.100642416	0	0	-12.13092	GAB4	1.659653067	11.11172731	0.149360493	-2.74313	ZNF90	37.42184215	6.638612267	0.177399398	-2.494927
RNU6-678P	1.100642416	0	0	-12.13092	CDC14C	1.659653067	11.11172731	0.149360493	-2.74313	KERA	18.71092108	3.319306133	0.177399398	-2.494927
RNA5SP75	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	NMUR1	18.71092108	3.319306133	0.177399398	-2.494927
RNU6-786P	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	ENSG000002	18.71092108	3.319306133	0.177399398	-2.494927
SCARNA14	1.100642416	0	0	-12.13092	VPS13A-AS	1.659653067	11.11172731	0.149360493	-2.74313	SLC25A20	112.2655265	19.9158368	0.177399398	-2.494927
RNU6-148P	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	EPB41L3	848.595303	150.1986025	0.17699674	-2.498205
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	EOMES	89.15203572	15.76670413	0.176851869	-2.499387
RNU6-762P	1.100642416	0	0	-12.13092	CARD18	1.659653067	11.11172731	0.149360493	-2.74313	MSX2	70.44111464	12.447398	0.176706432	-2.500574
RN7SKP258	1.100642416	0	0	-12.13092	ARHGEF17-	1.659653067	11.11172731	0.149360493	-2.74313	PTPN14	2466.539655	435.65893	0.17662758	-2.501217
RNU1-54P	1.100642416	0	0	-12.13092	LRP1-AS	1.659653067	11.11172731	0.149360493	-2.74313	ANK3	4841.725989	852.2318498	0.176018191	-2.506204
RNU6-667P	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	ALDH3B2	33.01927249	5.808785734	0.17592107	-2.507
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	11.11172731	0.149360493	-2.74313	SH3RF1	2980.539663	523.6205426	0.175679777	-2.50898
ENSG000002	1.100642416	0	0	-12.13092	CAPS	0.829826533	5.555863657	0.149360493	-2.74313	HES1	387.4261305	68.04577574	0.175635483	-2.509344
RNA5SP373	1.100642416	0	0	-12.13092	TSPO2	0.829826533	5.555863657	0.149360493	-2.74313	HOXB3	449.0621058	78.83352067	0.175551488	-2.510034

ENSG000002	1.100642416	0	0	-12.13092	INSL4	0.829826533	5.555863657	0.149360493	-2.74313	CGN	1101.743059	193.3495823	0.17549426	-2.510504
LINC01609	1.100642416	0	0	-12.13092	BTN2A3P	0.829826533	5.555863657	0.149360493	-2.74313	RASL12	127.6745203	22.4053164	0.175487766	-2.510558
ENSG000002	1.100642416	0	0	-12.13092	PLAAT1	0.829826533	5.555863657	0.149360493	-2.74313	RBM24	61.63597531	10.78774493	0.175023513	-2.514379
ENSG000002	1.100642416	0	0	-12.13092	BPIFA3	0.829826533	5.555863657	0.149360493	-2.74313	GTF2IRD2B	394.029985	68.87560227	0.17479787	-2.51624
PSMC2P2	1.100642416	0	0	-12.13092	ANKRD36	0.829826533	5.555863657	0.149360493	-2.74313	FYCO1	1633.353346	285.4603275	0.174769488	-2.516475
ENSG000002	1.100642416	0	0	-12.13092	CFC1	0.829826533	5.555863657	0.149360493	-2.74313	ARHGAP15	190.411138	33.19306133	0.174323108	-2.520164
ENSG000002	1.100642416	0	0	-12.13092	RPS2	0.829826533	5.555863657	0.149360493	-2.74313	SAMD4A	619.6616804	107.8774493	0.174090883	-2.522087
LINC03023	1.100642416	0	0	-12.13092	LIX1	0.829826533	5.555863657	0.149360493	-2.74313	PRF1	42.92505424	7.4684388	0.173987871	-2.522941
LINC01605	1.100642416	0	0	-12.13092	TRIM63	0.829826533	5.555863657	0.149360493	-2.74313	ENSG000002	42.92505424	7.4684388	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	ACTC1	0.829826533	5.555863657	0.149360493	-2.74313	FYB2	228.9336226	39.8316736	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	H2AC1	0.829826533	5.555863657	0.149360493	-2.74313	FRMPD4	28.61670282	4.9789592	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	TPD52L3	0.829826533	5.555863657	0.149360493	-2.74313	CCDC85A	14.30835141	2.4894796	0.173987871	-2.522941
DENND3-AS	1.100642416	0	0	-12.13092	OR5A2	0.829826533	5.555863657	0.149360493	-2.74313	SGCG	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	DNAJB7	0.829826533	5.555863657	0.149360493	-2.74313	DSC1	14.30835141	2.4894796	0.173987871	-2.522941
FAM83A-AS	1.100642416	0	0	-12.13092	OR5B3	0.829826533	5.555863657	0.149360493	-2.74313	DBX2	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	METRNL	0.829826533	5.555863657	0.149360493	-2.74313	TRAV12-1	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	ANKRD30B	0.829826533	5.555863657	0.149360493	-2.74313	PDCL3P6	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	RNF135	0.829826533	5.555863657	0.149360493	-2.74313	RFPL1S	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	ENSG000001	0.829826533	5.555863657	0.149360493	-2.74313	PKP4P1	14.30835141	2.4894796	0.173987871	-2.522941
COPDA1	1.100642416	0	0	-12.13092	PMCH	0.829826533	5.555863657	0.149360493	-2.74313	GDNF-AS1	14.30835141	2.4894796	0.173987871	-2.522941
ENSG000002	1.100642416	0	0	-12.13092	LCE5A	0.829826533	5.555863657	0.149360493	-2.74313	PRELP	2944.218464	511.1731446	0.173619299	-2.526001
ENSG000002	1.100642416	0	0	-12.13092	KRTAP23-1	0.829826533	5.555863657	0.149360493	-2.74313	CD37	205.8201318	35.68254093	0.173367593	-2.528094
ENTPD4-DT	1.100642416	0	0	-12.13092	TRIM51BP	0.829826533	5.555863657	0.149360493	-2.74313	GCNT4	81.44753881	14.10705107	0.173204142	-2.529455
RNU6-988P	1.100642416	0	0	-12.13092	POU5F1	0.829826533	5.555863657	0.149360493	-2.74313	CRISPLD2	1788.543926	309.5252969	0.173059936	-2.530656
ENSG000002	1.100642416	0	0	-12.13092	TRAV20	0.829826533	5.555863657	0.149360493	-2.74313	MON1B	1570.616728	271.3532764	0.172768615	-2.533087
ENSG000002	1.100642416	0	0	-12.13092	TRAV41	0.829826533	5.555863657	0.149360493	-2.74313	ITM2B	4679.931554	807.421217	0.172528424	-2.535094
ENSG000002	1.100642416	0	0	-12.13092	TRAJ19	0.829826533	5.555863657	0.149360493	-2.74313	PNCK	38.52248457	6.638612267	0.172330844	-2.536747
ENSG000002	1.100642416	0	0	-12.13092	TPT1P5	0.829826533	5.555863657	0.149360493	-2.74313	AQP4	38.52248457	6.638612267	0.172330844	-2.536747
ENSG000002	1.100642416	0	0	-12.13092	HNRNPA1P	0.829826533	5.555863657	0.149360493	-2.74313	IGSF5	38.52248457	6.638612267	0.172330844	-2.536747
ENSG000002	1.100642416	0	0	-12.13092	OR4E2	0.829826533	5.555863657	0.149360493	-2.74313	MCTP2	718.7194978	123.6441535	0.172033949	-2.539235
IGLVVI-22-1	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	ALPK1	414.9421909	71.36508187	0.17198801	-2.53962
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	CD226	62.73661773	10.78774493	0.171952925	-2.539914
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	SLC49A3	62.73661773	10.78774493	0.171952925	-2.539914
SUMO2P18	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	GPRC5A	159.5931504	27.3842756	0.171588038	-2.542979
ENSG000002	1.100642416	0	0	-12.13092	PARP1P1	0.829826533	5.555863657	0.149360493	-2.74313	FCMR	208.0214167	35.68254093	0.171533016	-2.543442
KCNIP1-OT1	1.100642416	0	0	-12.13092	PHB1P11	0.829826533	5.555863657	0.149360493	-2.74313	SIDT2	1064.321217	182.5618373	0.17152889	-2.543477
ENSG000002	1.100642416	0	0	-12.13092	SEPTIN2P1	0.829826533	5.555863657	0.149360493	-2.74313	NKD2	24.21413316	4.149132667	0.171351691	-2.544968
ENSG000002	1.100642416	0	0	-12.13092	MTAPP2	0.829826533	5.555863657	0.149360493	-2.74313	PSG4	24.21413316	4.149132667	0.171351691	-2.544968
ENSG000002	1.100642416	0	0	-12.13092	PLSCR5	0.829826533	5.555863657	0.149360493	-2.74313	APELA	24.21413316	4.149132667	0.171351691	-2.544968
IGKV2OR22-	1.100642416	0	0	-12.13092	MTHFD1P1	0.829826533	5.555863657	0.149360493	-2.74313	UGDH	3791.713124	648.9243491	0.171142786	-2.546728
ENSG000002	1.100642416	0	0	-12.13092	RANP8	0.829826533	5.555863657	0.149360493	-2.74313	CCDC8	106.7623144	18.25618373	0.170998389	-2.547945
MARK2P11	1.100642416	0	0	-12.13092	RPSAP31	0.829826533	5.555863657	0.149360493	-2.74313	ZNF677	189.3104956	32.3632348	0.170953199	-2.548327
ENSG000002	1.100642416	0	0	-12.13092	TUBB8P11	0.829826533	5.555863657	0.149360493	-2.74313	TRIB1	2238.706675	382.5500319	0.170879926	-2.548945
CYP4F44P	1.100642416	0	0	-12.13092	DRG1P1	0.829826533	5.555863657	0.149360493	-2.74313	CD5	58.33404806	9.9579184	0.170705081	-2.550422
ENSG000002	1.100642416	0	0	-12.13092	EDRF1-AS1	0.829826533	5.555863657	0.149360493	-2.74313	TNFAIP8L3	58.33404806	9.9579184	0.170705081	-2.550422
ENSG000002	1.100642416	0	0	-12.13092	BTNL12P	0.829826533	5.555863657	0.149360493	-2.74313	DENND6B	219.0278408	37.342194	0.170490627	-2.552236
ENSG000002	1.100642416	0	0	-12.13092	UGT1A9	0.829826533	5.555863657	0.149360493	-2.74313	TMEM176B	263.0535375	44.8106328	0.170347957	-2.553443
LINC01151	1.100642416	0	0	-12.13092	GLYCTK-AS	0.829826533	5.555863657	0.149360493	-2.74313	GLP1R	34.11991491	5.808785734	0.170246196	-2.554306
ETV3L	1.100642416	0	0	-12.13092	ERVFRD-1	0.829826533	5.555863657	0.149360493	-2.74313	PRG4	34.11991491	5.808785734	0.170246196	-2.554306
ENSG000002	1.100642416	0	0	-12.13092	HSPA8P11	0.829826533	5.555863657	0.149360493	-2.74313	G2E3P1	34.11991491	5.808785734	0.170246196	-2.554306
RBM12B-DT	1.100642416	0	0	-12.13092	RTEL1P1	0.829826533	5.555863657	0.149360493	-2.74313	ENSG000002	34.11991491	5.808785734	0.170246196	-2.554306
ENSG000002	1.100642416	0	0	-12.13092	RPA2P3	0.829826533	5.555863657	0.149360493	-2.74313	WNT5B	78.14561156	13.27722453	0.169903649	-2.557211
ENSG000002	1.100642416	0	0	-12.13092	PABPN1P2	0.829826533	5.555863657	0.149360493	-2.74313	KRT80	220.1284833	37.342194	0.169638174	-2.559467
ENSG000002	1.100642416	0	0	-12.13092	SRSF3P1	0.829826533	5.555863657	0.149360493	-2.74313	PAK6	88.0513933	14.9368776	0.169638174	-2.559467
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	RIN2	1262.436851	214.0952456	0.169588875	-2.559887
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	5.555863657	0.149360493	-2.74313	UNC5D	97.95717505	16.59653067	0.169426391	-2.561269
ENSG000002	1.100642416	0	0	-12.13092	SPECC1L-AI	0.829826533	5.555863657	0.149360493	-2.74313	TGIF2	171.7002169	29.04392867	0.169154875	-2.563583
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	EIF1AY	280.6638162	47.3001124	0.168529428	-2.568928
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	ADAMTS5	300.4753796	50.61941854	0.168464447	-2.569484
MAPRE1P1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	CAP2	507.3961539	85.47213294	0.168452465	-2.569587
CCT3P1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	AP1G2-AS1	222.3297681	37.342194	0.167958588	-2.573823
LINC02995	1.100642416	0	0	-12.13092	TBC1D3K	0.829826533	5.555863657	0.149360493	-2.74313	SYNE1	10462.70681	1756.742771	0.16790519	-2.574281
LINC01863	1.100642416	0	0	-12.13092	GUSBP19	0.829826533	5.555863657	0.149360493	-2.74313	CPNE7	89.15203572	14.9368776	0.167543876	-2.577389
RPL31P40	1.100642416	0	0	-12.13092	TRAJ36	0.829826533	5.555863657	0.149360493	-2.74313	JPH4	29.71734524	4.9789592	0.167543876	-2.577389
NRG1-IT1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	PLA2G5	29.71734524	4.9789592	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	TEX13D	0.829826533	5.555863657	0.149360493	-2.74313	ENSG000002	19.81156349	3.319306133	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	NR2E3	19.81156349	3.319306133	0.167543876	-2.577389
RPL10P18	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	5.555863657	0.149360493	-2.74313	CLDN16	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	C1orf116	50.61941854	340.0188558	0.148872387	-2.747852	PRDM7	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	EFHC2	29.04392867	195.5664007	0.148511854	-2.75135	MNX1	9.905781747	1.659653067	0.167543876	-2.577389
SLIT3-AS2	1.100642416	0	0	-12.13092	RHOD	28.21410213	190.0105371	0.14848704	-2.751591	ST6GAL2	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	HELZ2	454.7449403	3063.503221	0.148439518	-2.752053	YPEL4	9.905781747	1.659653067	0.167543876	-2.577389
IGHV3-71	1.100642416	0	0	-12.13092	WDR87	23.23514293	156.6753551	0.148301198	-2.753398	KCNJ4	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	MYO15B	238.1602151	1606.75577	0.148224279	-2.754146	SGCZ	9.905781747	1.659653067	0.167543876	-2.577389
MTND2P32	1.100642416	0	0	-12.13092	EMB	117.0055412	790.0438121	0.148100067	-2.755356	ADH1A	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	PPFIA2	127.7932861	863.3812123	0.148014903	-2.756186	TRAV4	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	CSTF2T	40.66150013	275.5708374	0.147553713	-2.760688	TRAV26-1	9.905781747	1.659653067	0.167543876	-2.577389
MTND6P3	1.100642416	0	0	-12.13092	SCUBE1	52.2790716	354.4641013	0.147487634	-2.761334	LINC01422	9.905781747	1.659653067	0.167543876	-2.577389
LINC03018	1.100642416	0	0	-12.13092	ITM2B	807.421217	5476.970393	0.14742114	-2.761985	ENSG000002	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	MSX2	12.447398	84.44912759	0.147395223	-2.762238	RPL36AP43	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	ADAMTSL4	29.04392867	197.7887462	0.146843181	-2.767652	MIR4458HG	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	SLC4A4	279.6515417	1904.550062	0.14683339	-2.767748	FOSL1P1	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	B4GALNT3	73.85456147	503.3612473	0.14672278	-2.768835	ENSG000002	9.905781747	1.659653067	0.167543876	-2.577389
ANK3-DT	1.100642416	0	0	-12.13092	COL20A1	9.128091867	62.22567296	0.146693341	-2.769125	ENSG000002	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	SFMBT2	98.74935747	674.481848	0.146407732	-2.771936	ENSG000002	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	NR3C2	97.91953094	671.1483298	0.145898495	-2.776963	ENSG000002	9.905781747	1.659653067	0.167543876	-2.577389
ENSG000002	1.100642416	0	0	-12.13092	INHA	13.27722453	91.11616398	0.145717554	-2.778753	CX3CL1	238.8394043	39.8316736	0.166771784	-2.584053
ENSG000002	1.100642416	0	0	-12.13092	NPIPB15	31.53340827	216.6786826	0.145530737	-2.780604	ITGA2	582.2398382	97.0897044	0.166752081	-2.584223
ENSG000002	1.100642416	0	0	-12.13092	NBEAL2	444.7870219	3063.503221	0.145189017	-2.783996	CD6	114.4668113	19.08601027	0.166738376	-2.584342
ENSG000002	1.100642416	0	0	-12.13092	BCL3	45.64045934	314.461883	0.145138288	-2.7845	SLC35F3	104.5610295	17.4263572	0.166662066	-2.585002
LINC02752	1.100642416	0	0	-12.13092	FSTL1	692.0753288	4779.153918	0.144811266	-2.787754	COL8A1	1325.173469	220.7338579	0.166569784	-2.585801
ENSG000002	1.100642416	0	0	-12.13092	HCN1	4.9789592	34.44635467	0.144542412	-2.790435	CSGALNAC	319.1863007	53.10889814	0.166388401	-2.587373
OR4A3P	1.100642416	0	0	-12.13092	LRRTM4	4.9789592	34.44635467	0.144542412	-2.790435	PLAT	364.3126398	60.57733694	0.166278439	-2.588327
PTP4A2P2	1.100642416	0	0	-12.13092	CDH26	14.9368776	103.339064	0.144542412	-2.790435	WTIP	175.0021442	29.04392867	0.165963273	-2.591064
LINC02547	1.100642416	0	0	-12.13092	FCSK	53.93872467	373.3540378	0.144470715	-2.791151	ERAP1	1140.265543	189.2004496	0.165926657	-2.591382
CHMP4A	1.100642416	0	0	-12.13092	UNC13D	42.3211532	293.3496011	0.144268658	-2.79317	CXCL10	110.0642416	18.25618373	0.165868437	-2.591889
ENSG000002	1.100642416	0	0	-12.13092	GUCY1B1	82.98265334	575.5874749	0.14417036	-2.794154	KLF8	165.0963624	27.3842756	0.165868437	-2.591889
ENSG000002	1.100642416	0	0	-12.13092	ACADL	18.25618373	126.6736914	0.144119774	-2.79466	ACHE	45.12633907	7.4684388	0.165500658	-2.595091
ENSG000002	1.100642416	0	0	-12.13092	TAGLN	191.6899292	1331.184932	0.143999473	-2.795865	OR51L1	45.12633907	7.4684388	0.165500658	-2.595091
ENSG000002	1.100642416	0	0	-12.13092	MAPK8IP3	373.42194	2594.588328	0.143923387	-2.796627	CASP4	80.34689639	13.27722453	0.165248754	-2.597289
ENSG000002	1.100642416	0	0	-12.13092	PKHD1	196.6688884	1368.964805	0.143662487	-2.799245	ANTXR1	4729.460463	780.0369414	0.164931486	-2.600061

MAGEL2	1.100642416	0	0	-12.13092	INO80D	29.04392867	202.2334371	0.143615858	-2.799713	RB1	1568.415443	258.0760519	0.164545722	-2.60344
ENSG000002	1.100642416	0	0	-12.13092	IKZF3	16.59653067	115.5619641	0.143615858	-2.799713	RELN	413.8415485	68.04577574	0.164424708	-2.604501
ENSG000002	1.100642416	0	0	-12.13092	NCMAP	8.298265334	57.78098203	0.143615858	-2.799713	NR2F2	2014.175622	331.1007868	0.164385262	-2.604847
ENSG000002	1.100642416	0	0	-12.13092	PAX1	4.149132667	28.89049102	0.143615858	-2.799713	ITGB7	111.164884	18.25618373	0.164226175	-2.606244
OR4R3P	1.100642416	0	0	-12.13092	DMP1	4.149132667	28.89049102	0.143615858	-2.799713	SYNC	136.4796596	22.4053164	0.164165975	-2.606773
ENSG000002	1.100642416	0	0	-12.13092	C10orf71	4.149132667	28.89049102	0.143615858	-2.799713	TBC1D4	1118.252695	183.3916639	0.16399841	-2.608246
COX6CP5	1.100642416	0	0	-12.13092	PCBP2P2	4.149132667	28.89049102	0.143615858	-2.799713	ATAD1	177.203429	29.04392867	0.163901618	-2.609098
ENSG000002	1.100642416	0	0	-12.13092	VIM	2141.782283	14930.82799	0.143446987	-2.80141	ABHD1	50.62955115	8.298265334	0.163901618	-2.609098
ENSG000002	1.100642416	0	0	-12.13092	LRP10	412.4237871	2875.715029	0.143416084	-2.801721	KRT4	25.31477557	4.149132667	0.163901618	-2.609098
ENSG000002	1.100642416	0	0	-12.13092	TEKT5	7.4684388	52.22511838	0.143004727	-2.805865	HTR1F	25.31477557	4.149132667	0.163901618	-2.609098
SENCR	1.100642416	0	0	-12.13092	CPEB2	48.12993894	337.7965104	0.142482049	-2.811148	PTPN20	25.31477557	4.149132667	0.163901618	-2.609098
ENSG000002	1.100642416	0	0	-12.13092	PRR22	23.23514293	163.3423915	0.142248088	-2.813519	ENSG000002	25.31477557	4.149132667	0.163901618	-2.609098
ENSG000002	1.100642416	0	0	-12.13092	TNNI3	6.638612267	46.66925472	0.142248088	-2.813519	GK5	1626.749491	266.3743172	0.163746366	-2.610465
ENSG000002	1.100642416	0	0	-12.13092	SNX32	6.638612267	46.66925472	0.142248088	-2.813519	NLRC5	476.5781663	78.00369414	0.163674502	-2.611099
ENSG000002	1.100642416	0	0	-12.13092	RNF138P1	6.638612267	46.66925472	0.142248088	-2.813519	ZNF469	532.7109295	87.131786	0.163562978	-2.612082
ENSG000002	1.100642416	0	0	-12.13092	GNLY	3.319306133	23.33462736	0.142248088	-2.813519	LATS2	675.7944436	110.3669289	0.163314348	-2.614277
SIGLEC10-AS	1.100642416	0	0	-12.13092	PLAAT2	3.319306133	23.33462736	0.142248088	-2.813519	LAMC2	310.3811614	50.61941854	0.163087922	-2.616278
ENSG000002	1.100642416	0	0	-12.13092	TMEM31	3.319306133	23.33462736	0.142248088	-2.813519	EPDR1	40.7237694	6.638612267	0.163015663	-2.616918
GVINP2	1.100642416	0	0	-12.13092	OR51B4	3.319306133	23.33462736	0.142248088	-2.813519	LRRK1	565.730202	92.1107452	0.162817444	-2.618673
FDPSP4	1.100642416	0	0	-12.13092	OR2L2	3.319306133	23.33462736	0.142248088	-2.813519	BMP6	342.2997915	55.59837774	0.162425976	-2.622146
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	23.33462736	0.142248088	-2.813519	GBP1	517.3019357	83.81247987	0.162018493	-2.62577
LMNTD2-AS	1.100642416	0	0	-12.13092	TDRD6	39.00184707	274.4596647	0.142104113	-2.81498	GSDMD	15.40899383	2.4894796	0.161560166	-2.629857
ANO3-AS1	1.100642416	0	0	-12.13092	SV2C	19.08601027	134.4519005	0.141954187	-2.816503	PPP1R1C	15.40899383	2.4894796	0.161560166	-2.629857
OR4A40P	1.100642416	0	0	-12.13092	EFNA4	18.25618373	128.8960368	0.14163495	-2.819751	PTGER1	15.40899383	2.4894796	0.161560166	-2.629857
OR5M10	1.100642416	0	0	-12.13092	FANCF	8.298265334	58.89215477	0.140906125	-2.827194	GREM2	15.40899383	2.4894796	0.161560166	-2.629857
OR4A9P	1.100642416	0	0	-12.13092	PARD3B	186.71097	1326.740241	0.140729107	-2.829007	ENTPD3-AS1	15.40899383	2.4894796	0.161560166	-2.629857
ENSG000002	1.100642416	0	0	-12.13092	NFKBIZ	262.2251845	1864.547843	0.140637413	-2.829948	IGKV3D-15	15.40899383	2.4894796	0.161560166	-2.629857
ENSG000002	1.100642416	0	0	-12.13092	LUZP2	12.447398	88.89381852	0.140025462	-2.836239	RHEX	15.40899383	2.4894796	0.161560166	-2.629857
OR4A19P	1.100642416	0	0	-12.13092	CLEC4M	2.4894796	17.7787637	0.140025462	-2.836239	MSRB3	277.3618889	44.8106328	0.161560166	-2.629857
C1DP5	1.100642416	0	0	-12.13092	STRA8	2.4894796	17.7787637	0.140025462	-2.836239	APOL1	432.5524696	69.7054288	0.161149071	-2.633532
ENSG000002	1.100642416	0	0	-12.13092	KIRREL3	2.4894796	17.7787637	0.140025462	-2.836239	KRTCAP3	51.73019357	8.298265334	0.160414349	-2.640125
RSF1-IT2	1.100642416	0	0	-12.13092	MPZ	2.4894796	17.7787637	0.140025462	-2.836239	APOL6	300.4753796	48.12993894	0.16017931	-2.64224
ENSG000002	1.100642416	0	0	-12.13092	CD19	2.4894796	17.7787637	0.140025462	-2.836239	TRHDE	212.4239863	34.02288787	0.160165	-2.642369
LINC02489	1.100642416	0	0	-12.13092	TRAV22	2.4894796	17.7787637	0.140025462	-2.836239	FNDC4	72.64239948	11.61757147	0.159928245	-2.644503
ENSG000002	1.100642416	0	0	-12.13092	TTC39A-AS	2.4894796	17.7787637	0.140025462	-2.836239	FRRS1L	72.64239948	11.61757147	0.159928245	-2.644503
ENSG000002	1.100642416	0	0	-12.13092	FCGR1CP	2.4894796	17.7787637	0.140025462	-2.836239	LRRC75B	108.9635992	17.4263572	0.159928245	-2.644503
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	17.7787637	0.140025462	-2.836239	NR3C2	613.0578259	97.91953094	0.159723156	-2.646355
BCAS2P1	1.100642416	0	0	-12.13092	SERINC5	423.211532	3026.83452	0.139819845	-2.838359	CRPPA	93.55460539	14.9368776	0.159659458	-2.64693
FAM66D	1.100642416	0	0	-12.13092	AHNAK	15169.22903	108812.7009	0.139406787	-2.842627	AOAH	244.3426164	39.00184707	0.159619503	-2.647291
ENSG000002	1.100642416	0	0	-12.13092	FOXB2	11.61757147	83.33795486	0.139403127	-2.842665	CACNA1G	354.406858	56.42820427	0.159218714	-2.650918
OSBPL9P3	1.100642416	0	0	-12.13092	PCSK1N	171.7740924	1234.512905	0.139143213	-2.845358	PLXDC2	1918.419732	304.5463377	0.158748543	-2.655185
CENPUP1	1.100642416	0	0	-12.13092	CNTN4	15.76670413	113.3396186	0.139110263	-2.845699	TRIM6	41.82441182	6.638612267	0.158725777	-2.655392
OR5AK1P	1.100642416	0	0	-12.13092	PDE4B	57.2580308	413.3562561	0.138519812	-2.851836	DEPDC7	41.82441182	6.638612267	0.158725777	-2.655392
OR5B10P	1.100642416	0	0	-12.13092	GDPD2	4.149132667	30.00166375	0.138296753	-2.854161	PCDH11Y	20.91220591	3.319306133	0.158725777	-2.655392
ENSG000002	1.100642416	0	0	-12.13092	MYO18B	4.149132667	30.00166375	0.138296753	-2.854161	BRINP3	20.91220591	3.319306133	0.158725777	-2.655392
TSKU-AS1	1.100642416	0	0	-12.13092	MARCHF10	4.149132667	30.00166375	0.138296753	-2.854161	LINC01748	20.91220591	3.319306133	0.158725777	-2.655392
SLC5A4P1	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	30.00166375	0.138296753	-2.854161	ENSG000002	20.91220591	3.319306133	0.158725777	-2.655392
TPBGL-AS1	1.100642416	0	0	-12.13092	CRB1	21.57548987	156.6753551	0.137708256	-2.860313	INPP4B	4157.126406	658.052441	0.158295028	-2.659312
GLTPP1	1.100642416	0	0	-12.13092	THNSL2	48.95976547	355.5752741	0.137691704	-2.860486	CUBN	692.3040799	109.5371024	0.158221085	-2.659986
ENSG000002	1.100642416	0	0	-12.13092	CHRNB3	5.808785734	42.22456379	0.137568875	-2.861774	POPDC2	47.3276239	7.4684388	0.157802953	-2.663804
ENSG000002	1.100642416	0	0	-12.13092	PSG9	5.808785734	42.22456379	0.137568875	-2.861774	GSTP1	242.1413316	38.17202053	0.157643556	-2.665262
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	17.4263572	126.6736914	0.137568875	-2.861774	MAP3K12	194.8137077	30.70358173	0.157604832	-2.665616
ENSG000002	1.100642416	0	0	-12.13092	FGA	7.4684388	54.44746384	0.137167799	-2.865986	TAOK3	3290.920825	516.9819303	0.157093397	-2.670306
NPM1P35	1.100642416	0	0	-12.13092	PARP15	7.4684388	54.44746384	0.137167799	-2.865986	DNAAF1	79.24625397	12.447398	0.157072384	-2.670499
ENSG000002	1.100642416	0	0	-12.13092	SP9	7.4684388	54.44746384	0.137167799	-2.865986	C15orf48	26.41541799	4.149132667	0.157072384	-2.670499
LINC02756	1.100642416	0	0	-12.13092	KIAA1210	7.4684388	54.44746384	0.137167799	-2.865986	HOXA2	52.83083598	8.298265334	0.157072384	-2.670499
ENSG000002	1.100642416	0	0	-12.13092	CARS1	9.128091867	66.67036389	0.136913785	-2.86866	LPA	52.83083598	8.298265334	0.157072384	-2.670499
TMEM123-D	1.100642416	0	0	-12.13092	RASSF9	9.128091867	66.67036389	0.136913785	-2.86866	CYP2U1	301.5760221	47.3001124	0.156843081	-2.672606
ENSG000002	1.100642416	0	0	-12.13092	NPNT	906.1705744	6622.589479	0.13683025	-2.869541	PWWP3B	169.4989321	26.55444907	0.156664403	-2.674251
PATL1-DT	1.100642416	0	0	-12.13092	ALDOC	10.78774493	78.89326393	0.136738479	-2.870509	SLCO5A1	376.4197064	58.91768387	0.156521252	-2.67557
LINC02730	1.100642416	0	0	-12.13092	F3	243.9690008	1785.654579	0.136627209	-2.871683	MPZL2	408.3383364	63.89664307	0.156479658	-2.675953
LINC02718	1.100642416	0	0	-12.13092	SGSH	134.4318984	985.6102128	0.136394587	-2.874142	CCDC181	31.91863007	4.9789592	0.155989126	-2.680483
ENSG000002	1.100642416	0	0	-12.13092	TSPOAP1	190.8601027	1400.077642	0.136321085	-2.874919	TMEM35A	31.91863007	4.9789592	0.155989126	-2.680483
ENSG000002	1.100642416	0	0	-12.13092	CSAD	51.44924507	377.7987287	0.136181626	-2.876396	SP140L	298.2740948	46.47028587	0.155797257	-2.682258
ENSG000002	1.100642416	0	0	-12.13092	SLC17A4	4.9789592	36.66870014	0.135782266	-2.880633	ITPR1	2365.280553	368.4429808	0.155771365	-2.682498
ENSG000002	1.100642416	0	0	-12.13092	CD1C	4.9789592	36.66870014	0.135782266	-2.880633	STAT6	937.7473387	146.0494699	0.155745011	-2.682742
PRSS23-AS1	1.100642416	0	0	-12.13092	PRDM8	8.298265334	61.11450023	0.135782266	-2.880633	S100A11	3103.811614	482.9590424	0.155601919	-2.684068
UVRAG-DT	1.100642416	0	0	-12.13092	TRAF3IP3	3.319306133	24.44580009	0.135782266	-2.880633	IL7	37.42184215	5.808785734	0.155224473	-2.687572
ENSG000002	1.100642416	0	0	-12.13092	DPP6	3.319306133	24.44580009	0.135782266	-2.880633	PRRT2	37.42184215	5.808785734	0.155224473	-2.687572
ENSG000002	1.100642416	0	0	-12.13092	KERA	3.319306133	24.44580009	0.135782266	-2.880633	ZNF439	112.2655265	17.4263572	0.155224473	-2.687572
CD44-DT	1.100642416	0	0	-12.13092	EXTL1	3.319306133	24.44580009	0.135782266	-2.880633	TMEM63A	1690.586751	262.2251845	0.155108979	-2.688646
ENSG000002	1.100642416	0	0	-12.13092	CCDC116	3.319306133	24.44580009	0.135782266	-2.880633	COL12A1	13808.65975	2138.462976	0.154863905	-2.690927
ENSG000002	1.100642416	0	0	-12.13092	MSMB	3.319306133	24.44580009	0.135782266	-2.880633	PTGIS	397.3319123	61.40716347	0.154548783	-2.693866
ENSG000002	1.100642416	0	0	-12.13092	SLC13A1	1.659653067	12.22290005	0.135782266	-2.880633	IRF8	134.2783748	20.74566333	0.154497426	-2.694345
LINC02952	1.100642416	0	0	-12.13092	GPATCH4	1.659653067	12.22290005	0.135782266	-2.880633	PRRG2	48.42826632	7.4684388	0.154216522	-2.696971
ENSG000002	1.100642416	0	0	-12.13092	TMEM82	1.659653067	12.22290005	0.135782266	-2.880633	IGLV3-21	48.42826632	7.4684388	0.154216522	-2.696971
ENSG000002	1.100642416	0	0	-12.13092	TBX20	1.659653067	12.22290005	0.135782266	-2.880633	CGNL1	2202.385475	339.3990521	0.154105199	-2.698013
LINC02460	1.100642416	0	0	-12.13092	CD164L2	1.659653067	12.22290005	0.135782266	-2.880633	SPN	107.8629568	16.59653067	0.153866825	-2.700246
MRPS18CP4	1.100642416	0	0	-12.13092	ODF4	1.659653067	12.22290005	0.135782266	-2.880633	ACOXL	221.2291257	34.02288787	0.153790274	-2.700964
LINC02747	1.100642416	0	0	-12.13092	CCDC190	1.659653067	12.22290005	0.135782266	-2.880633	PTGER2	167.2976473	25.72462253	0.153765597	-2.701195
ENSG000002	1.100642416	0	0	-12.13092	SNORD46	1.659653067	12.22290005	0.135782266	-2.880633	APOL3	447.9614634	68.87560227	0.153753409	-2.70131
ENSG000002	1.100642416	0	0	-12.13092	IGLV4-3	1.659653067	12.22290005	0.135782266	-2.880633	CCDC69	129.8758051	19.9158368	0.153345242	-2.705145
DENND5B-A	1.100642416	0	0	-12.13092	FOXI3	1.659653067	12.22290005	0.135782266	-2.880633	PPFIBP2	1051.113508	160.9863475	0.15315791	-2.706908
ENSG000002	1.100642416	0	0	-12.13092	RPL23AP2	1.659653067	12.22290005	0.135782266	-2.880633	LAMB2	3848.94653	589.1768387	0.153074831	-2.707691
ENSG000002	1.100642416	0	0	-12.13092	OR5H8	1.659653067	12.22290005	0.135782266	-2.880633	TRANK1	1745.618872	267.2041437	0.153071296	-2.707724
LINC02446	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	12.22290005	0.135782266	-2.880633	VCAM1	466.6723845	71.36508187	0.152923302	-2.70912
ENSG000002	1.100642416	0	0	-12.13092	EIF4A1P4	1.659653067	12.22290005	0.135782266	-2.880633	GMPR	506.2955115	77.1738676	0.152428504	-2.713795
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	12.22290005	0.135782266	-2.880633	ADAM28	474.3768814	72.1949084	0.152188927	-2.716065
ENSG000002	1.100642416	0	0	-12.13092	OR5L1	1.659653067	12.22290005	0.135782266	-2.880633	DHX58	267.4561072	40.66150013	0.152030554	-2.717567
ITFG2-AS1	1.100642416	0	0	-12.13092	TRIP6	25.72462253	190.0105371	0.135385242	-2.884858	SGIP1	606.4539714	92.1107452	0.151884149	-2.718957
OOEPP2	1.100642416	0	0	-12.13092	TMOD1	34.8527144	257.7920737	0.135196998	-2.886865	ERBB3	2643.743084	400.8062156	0.151605585	-2.721605
ENSG000002	1.100642416	0	0	-12.13092	TDRD5	53.10889814	393.3551469	0.135015135	-2.888807	ZFY	427.0492575	64.7264696	0.151566754	-2.721975
ENSG000002	1.100642416	0	0	-12.13092	SLC26A11	100.4090105	744.4857301	0.134870296	-2.890355	IL18	235.5374771	35.68254093	0.151494112	-2.722666
ENSG000002	1.100642416	0	0	-12.13092	GAL	21.57548987	160.0088733	0.134839334	-2.890687	GRHL2	2880.381203	434.8291035	0.150962346	-2.727739
ENSG000002	1.100642416	0	0	-12.13092	STAP2	36.51236747	271.1261465	0.134669297	-2.892507	H4C6	126.5738779	19.08601027	0.150789488	-2.729392
LINC02393	1.100642416	0	0	-12.13092	RNF213-AS1	36.51236747	271.1261465	0.134669297	-2.892507	GRIA3	38.52248457	5.808785734	0.150789488	-2.729392
LINC02368	1.100642416	0	0	-12.13092	RBM47	390.0184707	2897.938484	0.1345848	-2.893413	RAB40A	38.52248457	5.808785734	0.150789488	-2.729392
ENTR1P1	1.100642416	0	0	-12.13092	PIGUP1	7.4684388	55.55863657	0.134424443	-2.895133	AMTN	22.01284833	3.319306133	0.150789488	-2.729392
BTG1P1	1.100642416	0	0	-12.13092	TNRC18	1091.221891	8121.561494	0.134361094	-2.895813	STYXL2	22.01284833	3.319306133	0.150789488	-2.729392
LINC02954	1.100642416	0	0	-12.13092	PCDHGA3	23.23514293	173.3429461	0.134041468	-2.899249	CD79A	16.50963624	2.4894796	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	ACSM1	11.61757147	86.67147305	0.134041468	-2.899249	EVX1	16.50963624	2.4894796	0.150789488	-2.729392

IQSEC3P1	1.100642416	0	0	-12.13092	G2E3P1	5.808785734	43.33573653	0.134041468	-2.899249	FASLG	16.50963624	2.4894796	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	NTNG2	17.4263572	130.0072096	0.134041468	-2.899249	MAS1	16.50963624	2.4894796	0.150789488	-2.729392
LINC02955	1.100642416	0	0	-12.13092	ABCA8	149.368776	1115.617422	0.133888888	-2.900892	TOPAZ1	16.50963624	2.4894796	0.150789488	-2.729392
LINC02282	1.100642416	0	0	-12.13092	FCGR1A	9.9579184	74.44857301	0.133755665	-2.902328	DPP10	16.50963624	2.4894796	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	MOB3C	29.8737552	223.345719	0.133755665	-2.902328	AKR1C4	16.50963624	2.4894796	0.150789488	-2.729392
EEF1B2P4	1.100642416	0	0	-12.13092	ELFN2	139.4108576	1044.502368	0.133471079	-2.905401	CADM3-AS1	16.50963624	2.4894796	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	OR1L1	4.149132667	31.11283648	0.133357583	-2.906628	PSG8	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	OR51T1	4.149132667	31.11283648	0.133357583	-2.906628	LEFTY2	11.00642416	1.659653067	0.150789488	-2.729392
NUBPL-DT	1.100642416	0	0	-12.13092	KRT26	4.149132667	31.11283648	0.133357583	-2.906628	ASB17	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	OMP	4.149132667	31.11283648	0.133357583	-2.906628	LRRC36	11.00642416	1.659653067	0.150789488	-2.729392
LINC02385	1.100642416	0	0	-12.13092	HRH1	19.08601027	143.3412824	0.133150827	-2.908867	HTR4	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	PCED1B	25.72462253	193.3440553	0.133051014	-2.909949	SHH	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	CAB39L	141.0705107	1062.281131	0.132799601	-2.912677	PPIAP72	11.00642416	1.659653067	0.150789488	-2.729392
H3P35	1.100642416	0	0	-12.13092	SLC17A9	9.128091867	68.89270935	0.132497211	-2.915966	TMIGD1	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	GLI1	9.128091867	68.89270935	0.132497211	-2.915966	LINC02449	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	FGFRL1	204.9671537	1548.974788	0.132324396	-2.917849	TNFRSF13B	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	DAZL	2.4894796	18.88993643	0.13178867	-2.923702	TRIM7-AS1	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	NECAB2	2.4894796	18.88993643	0.13178867	-2.923702	ALDH7A1P1	11.00642416	1.659653067	0.150789488	-2.729392
HNRNPA1P6	1.100642416	0	0	-12.13092	DAO	2.4894796	18.88993643	0.13178867	-2.923702	LMO7-AS1	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	IL1A	2.4894796	18.88993643	0.13178867	-2.923702	NEFL	11.00642416	1.659653067	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	BHMT2	2.4894796	18.88993643	0.13178867	-2.923702	OR4C16	11.00642416	1.659653067	0.150789488	-2.729392
ELOCP32	1.100642416	0	0	-12.13092	ADAMTSL3	2.4894796	18.88993643	0.13178867	-2.923702	PAX2	5.503212081	0.829826533	0.150789488	-2.729392
PPFIA2-AS1	1.100642416	0	0	-12.13092	FCAMR	2.4894796	18.88993643	0.13178867	-2.923702	OTUB2	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	OR2AT4	2.4894796	18.88993643	0.13178867	-2.923702	CAPS	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC2A7	2.4894796	18.88993643	0.13178867	-2.923702	GNRHR	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	TSGA13	2.4894796	18.88993643	0.13178867	-2.923702	APOBEC1	5.503212081	0.829826533	0.150789488	-2.729392
BICD1-AS1	1.100642416	0	0	-12.13092	GPR179	2.4894796	18.88993643	0.13178867	-2.923702	NR2E1	5.503212081	0.829826533	0.150789488	-2.729392
HSPA8P14	1.100642416	0	0	-12.13092	ENSG000003	2.4894796	18.88993643	0.13178867	-2.923702	PRAMEF12	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	IMPG2	14.9368776	113.3396186	0.13178867	-2.923702	MC3R	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC1A1	19.08601027	145.5636278	0.13111799	-2.931062	BTN2A3P	5.503212081	0.829826533	0.150789488	-2.729392
LINC00609	1.100642416	0	0	-12.13092	GDF6	8.298265334	63.33684569	0.131017976	-2.932163	IL22	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	TRPM4	141.0705107	1077.837549	0.130882906	-2.933651	CIDEB	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	GHDC	11.61757147	88.89381852	0.130690431	-2.935775	IL36B	5.503212081	0.829826533	0.150789488	-2.729392
ADCY6-DT	1.100642416	0	0	-12.13092	UBE2CP5	11.61757147	88.89381852	0.130690431	-2.935775	ZNF365	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	TMEM269	5.808785734	44.44690926	0.130690431	-2.935775	TTLL8	5.503212081	0.829826533	0.150789488	-2.729392
BTBD10P1	1.100642416	0	0	-12.13092	SCUBE3	50.61941854	387.7992833	0.130529944	-2.937547	S100A7	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SOCS2	34.02288787	261.1255919	0.130293196	-2.940166	A1CF	5.503212081	0.829826533	0.150789488	-2.729392
LINC02395	1.100642416	0	0	-12.13092	MAN1C1	161.816174	1244.513459	0.130023643	-2.943154	SCGB1A1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	PNMA8B	6.638612267	51.11394565	0.129878689	-2.944763	OR5F1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	NOX3	3.319306133	25.55697282	0.129878689	-2.944763	NAT2	5.503212081	0.829826533	0.150789488	-2.729392
C1GALT1P1	1.100642416	0	0	-12.13092	PDIA2	3.319306133	25.55697282	0.129878689	-2.944763	CXCR5	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	LINC01088	3.319306133	25.55697282	0.129878689	-2.944763	SUN5	5.503212081	0.829826533	0.150789488	-2.729392
PHLDA1-DT	1.100642416	0	0	-12.13092	ABHD4	141.0705107	1087.838104	0.129679692	-2.946976	SLC22A11	5.503212081	0.829826533	0.150789488	-2.729392
LINC02416	1.100642416	0	0	-12.13092	H2AJ	256.4163988	1977.887462	0.129641551	-2.9474	GYPA	5.503212081	0.829826533	0.150789488	-2.729392
HMGA1P3	1.100642416	0	0	-12.13092	LTBP3	413.2536136	3191.288085	0.129494299	-2.94904	DNAJB7	5.503212081	0.829826533	0.150789488	-2.729392
HIGD1AP1	1.100642416	0	0	-12.13092	PLIN4	166.7951332	1288.960368	0.129402841	-2.950059	FKBP9P1	5.503212081	0.829826533	0.150789488	-2.729392
NF1P4	1.100642416	0	0	-12.13092	ERN2	7.4684388	57.78098203	0.129254273	-2.951716	GPR150	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	CYP4F22	7.4684388	57.78098203	0.129254273	-2.951716	OR8D4	5.503212081	0.829826533	0.150789488	-2.729392
ARL2BPP2	1.100642416	0	0	-12.13092	MYBPC1	22.4053164	173.3429461	0.129254273	-2.951716	LRRC55	5.503212081	0.829826533	0.150789488	-2.729392
LINC02286	1.100642416	0	0	-12.13092	UVSSA	264.7146641	2050.11369	0.129121944	-2.953194	NPSR1	5.503212081	0.829826533	0.150789488	-2.729392
ATXN2-AS	1.100642416	0	0	-12.13092	NIPAL3	326.9516541	2539.029691	0.128770315	-2.957128	FAM205C	5.503212081	0.829826533	0.150789488	-2.729392
PPIAP45	1.100642416	0	0	-12.13092	MDGA2	16.59653067	128.8960368	0.128759045	-2.957254	SULT1C3	5.503212081	0.829826533	0.150789488	-2.729392
LINC03056	1.100642416	0	0	-12.13092	FAM181B	8.298265334	64.44801842	0.128759045	-2.957254	KCNRG	5.503212081	0.829826533	0.150789488	-2.729392
PPIAP44	1.100642416	0	0	-12.13092	TMEM156	4.149132667	32.22400921	0.128759045	-2.957254	PSORS1C1	5.503212081	0.829826533	0.150789488	-2.729392
HSPE1P4	1.100642416	0	0	-12.13092	MOGAT1	4.149132667	32.22400921	0.128759045	-2.957254	Y_RNA.70	5.503212081	0.829826533	0.150789488	-2.729392
LINC00485	1.100642416	0	0	-12.13092	SH2D6	4.149132667	32.22400921	0.128759045	-2.957254	IGLV4-60	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	NUPR1	4.149132667	32.22400921	0.128759045	-2.957254	TRAV27	5.503212081	0.829826533	0.150789488	-2.729392
SYF2P1	1.100642416	0	0	-12.13092	TOX	4.149132667	32.22400921	0.128759045	-2.957254	NUDCP1	5.503212081	0.829826533	0.150789488	-2.729392
IFITM3P6	1.100642416	0	0	-12.13092	ZFPM2	27.3842756	213.3451644	0.128356673	-2.96177	NOC2LP2	5.503212081	0.829826533	0.150789488	-2.729392
NSA2P2	1.100642416	0	0	-12.13092	ARFGEF3	1326.0628	10350.57399	0.128114905	-2.96449	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
PAPLN-AS1	1.100642416	0	0	-12.13092	ITIH5	58.91768387	460.0255108	0.128074819	-2.964941	OR4A5	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SYNDIG1	9.9579184	77.7820912	0.128023279	-2.965522	TNRC18P2	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	FCRL5	9.9579184	77.7820912	0.128023279	-2.965522	LINC01133	5.503212081	0.829826533	0.150789488	-2.729392
PTCD2P1	1.100642416	0	0	-12.13092	TSPO	29.8737552	233.3462736	0.128023279	-2.965522	KLF3-AS1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	CAMK1G	5.808785734	45.55808199	0.12750286	-2.971398	KRT8P10	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	GCNT3	5.808785734	45.55808199	0.12750286	-2.971398	GS1-600G8.3	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SYT3	5.808785734	45.55808199	0.12750286	-2.971398	SCAND3P1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	IL17RC	18.25618373	143.3412824	0.12736166	-2.972997	LINC00327	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	DSC3	12.447398	97.78320037	0.127295874	-2.973742	TMEM26-AS	5.503212081	0.829826533	0.150789488	-2.729392
FKBP1BP1	1.100642416	0	0	-12.13092	ANXA9	6.638612267	52.22511838	0.127115313	-2.97579	MTCO3P11	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	HEPH	38.17202053	301.1278102	0.126763518	-2.979788	KMT2E-AS1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	TBC1D4	183.3916639	1447.858069	0.126664117	-2.98092	RPL7P19	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	PBXIP1	240.6496947	1904.550062	0.126355143	-2.984444	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
PTTG4P	1.100642416	0	0	-12.13092	MRC2	253.0970927	2003.444435	0.126330977	-2.98472	TRMT9B	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	HES1	68.04577574	538.9187747	0.126263509	-2.98549	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
LINC02274	1.100642416	0	0	-12.13092	CCNL2	648.0945226	5161.397338	0.12556571	-2.993486	WDFY3-AS1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	EBF3	32.3632348	257.7920737	0.125540069	-2.99378	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
SERPINE4P	1.100642416	0	0	-12.13092	MARCHF2	52.2790716	416.6897743	0.125462814	-2.994668	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
SEC23A-AS1	1.100642416	0	0	-12.13092	WDR86	27.3842756	218.9010281	0.12509889	-2.998859	CPEB1-AS1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	CAPN5	398.316736	3187.954566	0.124944295	-3.000643	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	PCARE	15.76670413	126.6736914	0.124467077	-3.006164	ANXA8L1	5.503212081	0.829826533	0.150789488	-2.729392
LINC01397	1.100642416	0	0	-12.13092	IGF2BP2	12.447398	100.0055458	0.124467077	-3.006164	ARHGAP28-/	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	AJUBA	12.447398	100.0055458	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	LAMB3	9.128091867	73.33740027	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
SALL4P7	1.100642416	0	0	-12.13092	SHOC1	7.4684388	60.0033275	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	BPIFB3	4.9789592	40.00221833	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC34A3	4.9789592	40.00221833	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC5A10	2.4894796	20.00110917	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
LINC01579	1.100642416	0	0	-12.13092	PRR15	2.4894796	20.00110917	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	OR4A15	2.4894796	20.00110917	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
CKS1BP1	1.100642416	0	0	-12.13092	KRT5	2.4894796	20.00110917	0.124467077	-3.006164	ENSG000002	5.503212081	0.829826533	0.150789488	-2.729392
LINC00520	1.100642416	0	0	-12.13092	HTR3D	2.4894796	20.00110917	0.124467077	-3.006164	ATP8B5P	5.503212081	0.829826533	0.150789488	-2.729392
RBM25-AS1	1.100642416	0	0	-12.13092	FAM228A	2.4894796	20.00110917	0.124467077	-3.006164	CCT6P3.1	5.503212081	0.829826533	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	QRFPR	2.4894796	20.00110917	0.124467077	-3.006164	RUFY1	99.05781747	14.9368776	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	CADM3-AS1	2.4894796	20.00110917	0.124467077	-3.006164	TLK2P2	60.5353329	9.128091867	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	2.4894796	20.00110917	0.124467077	-3.006164	MAP10	49.52890873	7.4684388	0.150789488	-2.729392
SETP2	1.100642416	0	0	-12.13092	ZNF451-AS1	2.4894796	20.00110917	0.124467077	-3.006164	ADTRP	27.51606041	4.149132667	0.150789488	-2.729392
ZMYND19P1	1.100642416	0	0	-12.13092	RD3L	2.4894796	20.00110917	0.124467077	-3.006164	CADM3	27.51606041	4.149132667	0.150789488	-2.729392
ENSG000002	1.100642416	0	0	-12.13092	PRR29-AS1	2.4894796	20.00110917	0.124467077	-3.006164	CAVIN1	1169.982889	175.9232251	0.15036393	-2.73347
ENSG000002	1.100642416	0	0	-12.13092	PANX2	37.342194	300.0166375	0.124467077	-3.006164	PRKG1	365.4132822	54.7685512	0.149881118	-2.738109
ENSG000002	1.100642416	0	0	-12.13092	LPIN3	14.10705107	113.3396186	0.124467077	-3.006164	ARID5B	3692.655307	551.8346447	0.149441147	-2.742351

COX4I1P1	1.100642416	0	0	-12.13092	FTH1P11	5.808785734	46.66925472	0.124467077	-3.006164	ZHX2	1351.588887	201.6478476	0.149193183	-2.744746
ENSG000002	1.100642416	0	0	-12.13092	KRT17	4.149132667	33.33518194	0.124467077	-3.006164	APCDD1	741.8329886	110.3669289	0.148775979	-2.748786
ENSG000002	1.100642416	0	0	-12.13092	TDRD10	4.149132667	33.33518194	0.124467077	-3.006164	KRT15	463.3704573	68.87560227	0.148640469	-2.750101
ENSG000002	1.100642416	0	0	-12.13092	LRRC74A	3.319306133	26.66814555	0.124467077	-3.006164	CDC42EP1	368.7152095	54.7685512	0.148538899	-2.751087
ENSG000002	1.100642416	0	0	-12.13092	KCNJ13	3.319306133	26.66814555	0.124467077	-3.006164	NPNT	6115.169265	906.1705744	0.148184054	-2.754538
RRAGAP1	1.100642416	0	0	-12.13092	BRINP3	3.319306133	26.66814555	0.124467077	-3.006164	AMIGO1	190.411138	28.21410213	0.148174642	-2.75463
ENSG000002	1.100642416	0	0	-12.13092	CYP4F8	3.319306133	26.66814555	0.124467077	-3.006164	LAMA3	873.9100785	129.4529392	0.148130732	-2.755057
SEPTIN7P1	1.100642416	0	0	-12.13092	POTEE	3.319306133	26.66814555	0.124467077	-3.006164	RASD2	123.2719506	18.25618373	0.148096819	-2.755387
ENSG000002	1.100642416	0	0	-12.13092	FBXO47	3.319306133	26.66814555	0.124467077	-3.006164	FMOD	2258.518238	334.4200929	0.148070574	-2.755643
LINC02304	1.100642416	0	0	-12.13092	RFPL4AL1	3.319306133	26.66814555	0.124467077	-3.006164	IL1RL1	112.2655265	16.59653067	0.147832832	-2.757961
HSPA2-AS1	1.100642416	0	0	-12.13092	PRDM7	1.659653067	13.33407278	0.124467077	-3.006164	DPYS	106.7623144	15.76670413	0.147680427	-2.759449
SIPA1L1-AS1	1.100642416	0	0	-12.13092	ACKR4	1.659653067	13.33407278	0.124467077	-3.006164	NEK5	101.2591023	14.9368776	0.147511456	-2.761101
DDX18P1	1.100642416	0	0	-12.13092	HTR3B	1.659653067	13.33407278	0.124467077	-3.006164	JAK3	231.1349074	34.02288787	0.147199262	-2.764158
ENSG000002	1.100642416	0	0	-12.13092	SLC39A2	1.659653067	13.33407278	0.124467077	-3.006164	IRF4	90.25267814	13.27722453	0.147111696	-2.765016
ENSG000002	1.100642416	0	0	-12.13092	OR1N1	1.659653067	13.33407278	0.124467077	-3.006164	RIMBP2	45.12633907	6.638612267	0.147111696	-2.765016
ENSG000002	1.100642416	0	0	-12.13092	XKR3	1.659653067	13.33407278	0.124467077	-3.006164	PLAGL1	716.518213	105.3879697	0.147083449	-2.765293
ENSG000002	1.100642416	0	0	-12.13092	GARIN5B	1.659653067	13.33407278	0.124467077	-3.006164	REEP6	350.0042884	51.44924507	0.146996042	-2.766151
ENSG000002	1.100642416	0	0	-12.13092	OPALIN	1.659653067	13.33407278	0.124467077	-3.006164	PTPRK	479.8800935	70.53525534	0.146985166	-2.766258
HMBOX1-IT1	1.100642416	0	0	-12.13092	TRAJ25	1.659653067	13.33407278	0.124467077	-3.006164	KRCC1	739.6317038	108.7072759	0.146974873	-2.766359
ENSG000002	1.100642416	0	0	-12.13092	SMTNL1	1.659653067	13.33407278	0.124467077	-3.006164	PHRF1	129.8758051	19.08601027	0.146955857	-2.766545
HNRNPA1P6	1.100642416	0	0	-12.13092	TRIM67-AS1	1.659653067	13.33407278	0.124467077	-3.006164	PDZD2	1801.751635	264.7146641	0.146920729	-2.76689
ANKRD34C-.	1.100642416	0	0	-12.13092	PTTG2	1.659653067	13.33407278	0.124467077	-3.006164	ODF3B	169.4989321	24.894796	0.146872878	-2.76736
LINC02853	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	13.33407278	0.124467077	-3.006164	FYB1	1186.492525	174.263572	0.146872878	-2.76736
VPS13C-DT	1.100642416	0	0	-12.13092	ADPGK-AS1	1.659653067	13.33407278	0.124467077	-3.006164	C6orf132	1333.978609	195.8390619	0.146808248	-2.767995
ENSG000002	1.100642416	0	0	-12.13092	LRRC37A16	1.659653067	13.33407278	0.124467077	-3.006164	PLBD1-AS1	39.62312699	5.808785734	0.146600891	-2.770034
ENSG000002	1.100642416	0	0	-12.13092	CTSG	0.829826533	6.667036389	0.124467077	-3.006164	SELENOM	408.3383364	59.7475104	0.146318641	-2.772815
LINC03080	1.100642416	0	0	-12.13092	CACNG7	0.829826533	6.667036389	0.124467077	-3.006164	IQSEC2	851.8972302	124.47398	0.146113845	-2.774835
ENSG000002	1.100642416	0	0	-12.13092	HYAL4	0.829826533	6.667036389	0.124467077	-3.006164	SLC18A2	34.11991491	4.9789592	0.145925311	-2.776698
ENSG000002	1.100642416	0	0	-12.13092	TPO	0.829826533	6.667036389	0.124467077	-3.006164	PAXIP1-AS2	96.85653263	14.10705107	0.145648937	-2.779433
ENSG000002	1.100642416	0	0	-12.13092	DEFB129	0.829826533	6.667036389	0.124467077	-3.006164	BCL9L	2760.41118	401.6360421	0.145498629	-2.780923
ENSG000002	1.100642416	0	0	-12.13092	IL17B	0.829826533	6.667036389	0.124467077	-3.006164	SRMS	62.73661773	9.128091867	0.145498629	-2.780923
ENSG000002	1.100642416	0	0	-12.13092	BCAN	0.829826533	6.667036389	0.124467077	-3.006164	PLIN1	62.73661773	9.128091867	0.145498629	-2.780923
HNRNPA1P4	1.100642416	0	0	-12.13092	CCL21	0.829826533	6.667036389	0.124467077	-3.006164	RNF133	62.73661773	9.128091867	0.145498629	-2.780923
ENSG000002	1.100642416	0	0	-12.13092	FXYD4	0.829826533	6.667036389	0.124467077	-3.006164	PPM1J	57.23340565	8.298265334	0.144989893	-2.785976
ENSG000002	1.100642416	0	0	-12.13092	CCDC105	0.829826533	6.667036389	0.124467077	-3.006164	MYO18B	28.61670282	4.149132667	0.144989893	-2.785976
OR4N3P	1.100642416	0	0	-12.13092	CD3D	0.829826533	6.667036389	0.124467077	-3.006164	PDCD1LG2	28.61670282	4.149132667	0.144989893	-2.785976
LINC01833	1.100642416	0	0	-12.13092	SPATA46	0.829826533	6.667036389	0.124467077	-3.006164	PDE5A	2845.160646	412.4237871	0.144956239	-2.786311
ENSG000002	1.100642416	0	0	-12.13092	SERHL	0.829826533	6.667036389	0.124467077	-3.006164	TP63	757.2419824	109.5371024	0.144652707	-2.789335
NIFKP8	1.100642416	0	0	-12.13092	DIRC1	0.829826533	6.667036389	0.124467077	-3.006164	EPS8L2	396.2312699	57.2580308	0.144506593	-2.790793
LINC02568	1.100642416	0	0	-12.13092	LINC00469	0.829826533	6.667036389	0.124467077	-3.006164	TNFAIP3	800.1670366	115.3458881	0.144152262	-2.794335
AHCYP7	1.100642416	0	0	-12.13092	ODF3	0.829826533	6.667036389	0.124467077	-3.006164	IGSF9B	397.3319123	57.2580308	0.144106298	-2.794795
ENSG000002	1.100642416	0	0	-12.13092	ZFP42	0.829826533	6.667036389	0.124467077	-3.006164	IKZF1	323.5888704	46.47028587	0.143609036	-2.799782
ENSG000002	1.100642416	0	0	-12.13092	DHRS7C	0.829826533	6.667036389	0.124467077	-3.006164	CD69	46.22698148	6.638612267	0.143609036	-2.799782
TPM1-AS	1.100642416	0	0	-12.13092	NPSR1	0.829826533	6.667036389	0.124467077	-3.006164	PCOLCE-AS1	46.22698148	6.638612267	0.143609036	-2.799782
ENSG000002	1.100642416	0	0	-12.13092	OR6N2	0.829826533	6.667036389	0.124467077	-3.006164	IL23R	23.11349074	3.319306133	0.143609036	-2.799782
LINC00052	1.100642416	0	0	-12.13092	ENSG000001	0.829826533	6.667036389	0.124467077	-3.006164	CADM2	23.11349074	3.319306133	0.143609036	-2.799782
ENSG000002	1.100642416	0	0	-12.13092	OPTC	0.829826533	6.667036389	0.124467077	-3.006164	L3MBTL2-AS	23.11349074	3.319306133	0.143609036	-2.799782
ENSG000002	1.100642416	0	0	-12.13092	SLC22A12	0.829826533	6.667036389	0.124467077	-3.006164	ITGA1	3741.083573	536.0679406	0.143292159	-2.802968
ENSG000002	1.100642416	0	0	-12.13092	CES1	0.829826533	6.667036389	0.124467077	-3.006164	GBP3	691.2034374	98.74935747	0.142865837	-2.807267
ENSG000002	1.100642416	0	0	-12.13092	PSORS1C1	0.829826533	6.667036389	0.124467077	-3.006164	CXCR3	40.7237694	5.808785734	0.142638705	-2.809563
ENSG000002	1.100642416	0	0	-12.13092	FTH1P12	0.829826533	6.667036389	0.124467077	-3.006164	HSBP1L1	40.7237694	5.808785734	0.142638705	-2.809563
NMNAT1P5	1.100642416	0	0	-12.13092	PIGCP1	0.829826533	6.667036389	0.124467077	-3.006164	CD74	12002.50555	1701.144393	0.14173244	-2.818758
ENSG000002	1.100642416	0	0	-12.13092	SEPHS1P6	0.829826533	6.667036389	0.124467077	-3.006164	RARB	416.0428334	58.91768387	0.141614466	-2.819959
ENSG000002	1.100642416	0	0	-12.13092	EFCAB9	0.829826533	6.667036389	0.124467077	-3.006164	GPR65	88.0513933	12.447398	0.141365145	-2.822502
UBE2Q2P13	1.100642416	0	0	-12.13092	ATP6V0E1P	0.829826533	6.667036389	0.124467077	-3.006164	NLRC3	88.0513933	12.447398	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	KLRB1	35.22055732	4.9789592	0.141365145	-2.822502
RPL7AP75	1.100642416	0	0	-12.13092	OR4F2P	0.829826533	6.667036389	0.124467077	-3.006164	SYT12	35.22055732	4.9789592	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	MTOR-AS1	0.829826533	6.667036389	0.124467077	-3.006164	ZIM3	17.61027866	2.4894796	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	UBXN7-AS1	0.829826533	6.667036389	0.124467077	-3.006164	TEX29	17.61027866	2.4894796	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	THRAP3P1	0.829826533	6.667036389	0.124467077	-3.006164	FEV	17.61027866	2.4894796	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	UGT1A11P	0.829826533	6.667036389	0.124467077	-3.006164	DOK7	17.61027866	2.4894796	0.141365145	-2.822502
ENSG000002	1.100642416	0	0	-12.13092	OR9H1P	0.829826533	6.667036389	0.124467077	-3.006164	IRS1	1491.370474	209.9461129	0.14077395	-2.828548
ENSG000002	1.100642416	0	0	-12.13092	ZFYVE9P1	0.829826533	6.667036389	0.124467077	-3.006164	BTN3A3	461.1691724	64.7264696	0.140352984	-2.832868
ENSG000002	1.100642416	0	0	-12.13092	KRT17P6	0.829826533	6.667036389	0.124467077	-3.006164	CCDC9B	94.6552478	13.27722453	0.140269291	-2.833729
ENSG000002	1.100642416	0	0	-12.13092	ERP29P1	0.829826533	6.667036389	0.124467077	-3.006164	PEG10	47.3276239	6.638612267	0.140269291	-2.833729
HSPE1P3	1.100642416	0	0	-12.13092	MORF4	0.829826533	6.667036389	0.124467077	-3.006164	MMP2	2693.271993	377.5710727	0.140190472	-2.83454
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	EPHA3	1978.955065	277.1620621	0.140054753	-2.835937
EIF5-DT	1.100642416	0	0	-12.13092	NUCB1-AS1	0.829826533	6.667036389	0.124467077	-3.006164	CMYA5	924.5396297	129.4529392	0.14001881	-2.836307
LINC02259	1.100642416	0	0	-12.13092	VTI1BP1	0.829826533	6.667036389	0.124467077	-3.006164	CYP1B1-AS1	59.43469048	8.298265334	0.139619897	-2.840424
LINC02109	1.100642416	0	0	-12.13092	CXXC4-AS1	0.829826533	6.667036389	0.124467077	-3.006164	KCTD14	29.71734524	4.149132667	0.139619897	-2.840424
CTCF-DT	1.100642416	0	0	-12.13092	WDR45P1	0.829826533	6.667036389	0.124467077	-3.006164	GBP1P1	29.71734524	4.149132667	0.139619897	-2.840424
ENSG000002	1.100642416	0	0	-12.13092	NCOA4P3	0.829826533	6.667036389	0.124467077	-3.006164	RAB34	160.6937928	22.4053164	0.139428636	-2.842401
ENSG000002	1.100642416	0	0	-12.13092	ASIC5	0.829826533	6.667036389	0.124467077	-3.006164	ZNF385D	303.7773069	42.3211532	0.139316375	-2.843563
LINC00567	1.100642416	0	0	-12.13092	ALDH1A2-A	0.829826533	6.667036389	0.124467077	-3.006164	DDR2	1234.920791	171.7740924	0.139097255	-2.845834
ENSG000002	1.100642416	0	0	-12.13092	MOCS1P1	0.829826533	6.667036389	0.124467077	-3.006164	SLC16A4	113.3661689	15.76670413	0.139077683	-2.846037
LINC01566	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	BST2	280.6638162	39.00184707	0.138962862	-2.847229
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	GPR171	41.82441182	5.808785734	0.138885055	-2.848037
ENSG000002	1.100642416	0	0	-12.13092	ARL14EPL	0.829826533	6.667036389	0.124467077	-3.006164	IL16	485.3833056	67.2159492	0.138480142	-2.852249
FIGNL2-DT	1.100642416	0	0	-12.13092	NAXD-AS1	0.829826533	6.667036389	0.124467077	-3.006164	ALDH2	497.4903722	68.87560227	0.138446101	-2.852604
ENSG000002	1.100642416	0	0	-12.13092	LINC02881	0.829826533	6.667036389	0.124467077	-3.006164	GBP4	305.9785917	42.3211532	0.138314099	-2.85398
ENSG000002	1.100642416	0	0	-12.13092	OR52E5	0.829826533	6.667036389	0.124467077	-3.006164	ZNF423	890.4197148	122.8143269	0.13792858	-2.858007
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	ERBB2	2648.145654	364.2938481	0.137565639	-2.861808
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	PCED1B	187.1092108	25.72462253	0.137484533	-2.862659
LINC01992	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	6.667036389	0.124467077	-3.006164	TMEM144	314.7837311	43.15097974	0.137081353	-2.866896
RPL10P14	1.100642416	0	0	-12.13092	FLVCR2	53.10889814	430.0238471	0.123502216	-3.017391	FOXP3	60.5353329	8.298265334	0.137081353	-2.866896
LCMT1-AS2	1.100642416	0	0	-12.13092	NEIL1	11.61757147	94.44968217	0.123002759	-3.023237	ANXA9	48.42826632	6.638612267	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	XDH	163.4758271	1334.51845	0.122497989	-3.02917	CNTD1	48.42826632	6.638612267	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	SPATA31C2	8.298265334	67.78153662	0.122426633	-3.030011	ENSG000002	48.42826632	6.638612267	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	SMIM14	73.85456147	604.4779659	0.12217908	-3.032931	ISL1-DT	24.21413316	3.319306133	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	GPAT3	14.10705107	115.5619641	0.12207348	-3.034178	SLC16A8	12.10706658	1.659653067	0.137081353	-2.866896
PCMTD1P2	1.100642416	0	0	-12.13092	SLC9B2	69.7054288	571.142784	0.122045539	-3.034509	MYL3	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	CATSPERB	6.638612267	54.44746384	0.121926933	-3.035911	CD164L2	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	CNTNAP3B	6.638612267	54.44746384	0.121926933	-3.035911	ABHD16B	12.10706658	1.659653067	0.137081353	-2.866896
MTCYBP28	1.100642416	0	0	-12.13092	CALN1	24.894796	204.4557826	0.121761271	-3.037873	AGER	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	CLUL1	48.95976547	402.2445288	0.121716424	-3.038404	TRAJ18	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	ACSM2A	5.808785734	47.78042745	0.121572494	-3.040111	CHMP5P1	12.10706658	1.659653067	0.137081353	-2.866896
LINC02846	1.100642416	0	0	-12.13092	TMCO4	151.0284291	1243.402286	0.12146385	-3.041401	ENSG000002	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	TRPS1	824.8475742	6791.487735	0.121453149	-3.041528	TAPT1-AS1	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	NRK	4.9789592	41.11339106	0.121103102	-3.045692	ENSG000002	12.10706658	1.659653067	0.137081353	-2.866896
ENSG000002	1.100642416	0	0	-12.13092	POTEH	4.9789592	41.11339106	0.121103102	-3.045692	ATXN1	1514.483965	207.4566333	0.13698173	-2.867945
ENSG000002	1.100642416	0	0	-12.13092	IQCA1L	4.9789592	41.11339106	0.121103102	-3.045692	PIEZO2	997.1820292	136.0915515	0.136476137	-2.873279

ENSG000002	1.100642416	0	0	-12.13092	SOWAHB	62.23699	515.5841474	0.120711605	-3.050364	MDGA1	280.6638162	38.17202053	0.136006205	-2.878256
ENSG000002	1.100642416	0	0	-12.13092	TMEM79	21.57548987	178.8988098	0.12060164	-3.051679	LINC01619	67.13918739	9.128091867	0.135957735	-2.87877
LDC1P	1.100642416	0	0	-12.13092	ITIH6	4.149132667	34.44635467	0.12045201	-3.05347	AKT3	660.3854498	89.6212656	0.135710539	-2.881395
ENSG000002	1.100642416	0	0	-12.13092	KLF2	88.79143907	738.9298664	0.120162201	-3.056945	PCSK6	330.1927249	44.8106328	0.135710539	-2.881395
ENSG000002	1.100642416	0	0	-12.13092	KBTBD12	9.9579184	83.33795486	0.119488394	-3.065058	CALD1	4336.53112	588.3470122	0.135672268	-2.881802
LINC01917	1.100642416	0	0	-12.13092	SRD5A2	3.319306133	27.77931829	0.119488394	-3.065058	CLU	3470.325539	469.6818179	0.135342294	-2.885315
ENSG000002	1.100642416	0	0	-12.13092	VIM-AS1	12.447398	104.4502368	0.119170606	-3.0689	VIPR2	85.85010847	11.61757147	0.1353239	-2.885511
ENSG000002	1.100642416	0	0	-12.13092	GRHL2	434.8291035	3653.535941	0.119015964	-3.070773	F10	42.92505424	5.808785734	0.1353239	-2.885511
LINC01290	1.100642416	0	0	-12.13092	ACSM3	5.808785734	48.89160018	0.118809483	-3.073278	FCGR1A	73.74304189	9.9579184	0.135035363	-2.888591
ENSG000002	1.100642416	0	0	-12.13092	EPS8L2	57.2580308	483.3601382	0.118458322	-3.077549	TENM2	197.0149925	26.55444907	0.1347839	-2.89128
E2F5-DT	1.100642416	0	0	-12.13092	STAB1	784.186074	6647.035279	0.117975314	-3.083443	MSC	30.81798766	4.149132667	0.134633472	-2.892891
ENSG000002	1.100642416	0	0	-12.13092	ZC4H2	4.9789592	42.22456379	0.117916178	-3.084166	OMP	30.81798766	4.149132667	0.134633472	-2.892891
ENSG000002	1.100642416	0	0	-12.13092	CD79A	2.4894796	21.1122819	0.117916178	-3.084166	PLEKHA4	215.7259136	29.04392867	0.134633472	-2.892891
ENSG000002	1.100642416	0	0	-12.13092	TAS1R1	2.4894796	21.1122819	0.117916178	-3.084166	CXCL1	49.52890873	6.638612267	0.134035101	-2.899317
ENSG000002	1.100642416	0	0	-12.13092	ZSCAN4	2.4894796	21.1122819	0.117916178	-3.084166	MTUS1	3027.867287	405.7851748	0.13401683	-2.899514
ENSG000002	1.100642416	0	0	-12.13092	VN1R2	2.4894796	21.1122819	0.117916178	-3.084166	ITGAL	304.8779493	40.66150013	0.133369764	-2.906496
ENSG000002	1.100642416	0	0	-12.13092	BMPR1AP1	2.4894796	21.1122819	0.117916178	-3.084166	CABYR	37.42184215	4.9789592	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	CABCOCO1	7.4684388	63.33684569	0.117916178	-3.084166	DHRS4	37.42184215	4.9789592	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	7.4684388	63.33684569	0.117916178	-3.084166	KCNK15	18.71092108	2.4894796	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	ARHGEF37	30.70358173	261.1255919	0.117581664	-3.088265	NUDT11	18.71092108	2.4894796	0.133049548	-2.909964
MIR3147HG	1.100642416	0	0	-12.13092	PPM1K	63.06681654	536.6964293	0.11750929	-3.089153	FZD10-AS1	18.71092108	2.4894796	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	RAB3IL1	39.8316736	340.0188558	0.117145484	-3.093627	MGC32805	18.71092108	2.4894796	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	THSD7B	17.4263572	148.897146	0.117036207	-3.094973	ENSG000002	18.71092108	2.4894796	0.133049548	-2.909964
ENSG000002	1.100642416	0	0	-12.13092	ADGRG4	12.447398	106.6725822	0.116687885	-3.099273	FOXD2	100.1584599	13.27722453	0.132562187	-2.915259
ENSG000002	1.100642416	0	0	-12.13092	CHADL	4.149132667	35.55752741	0.116687885	-3.099273	SMAD3	1900.809453	251.4374396	0.13227914	-2.918343
ENSG000002	1.100642416	0	0	-12.13092	FAM186B	4.149132667	35.55752741	0.116687885	-3.099273	RBPJ	903.6274238	119.4950208	0.132239259	-2.918778
TLE7	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	35.55752741	0.116687885	-3.099273	IQGAP2	2205.687402	291.2691132	0.132053669	-2.920804
ENSG000002	1.100642416	0	0	-12.13092	CDH3	30.70358173	263.3479374	0.116589414	-3.100491	GHDC	88.0513933	11.61757147	0.131940802	-2.922037
KIF18BP1	1.100642416	0	0	-12.13092	TESK2	50.61941854	434.468538	0.116508824	-3.101489	GALM	94.6552478	12.447398	0.131502461	-2.926838
ENSG000002	1.100642416	0	0	-12.13092	ABCC4	81.32300027	698.9276481	0.116353961	-3.103408	FOXF2	239.9400468	31.53340827	0.131422031	-2.927721
CEDORA	1.100642416	0	0	-12.13092	PLA2R1	92.1107452	792.2661575	0.116262375	-3.104544	POTEKP	25.31477557	3.319306133	0.131121294	-2.931026
ENSG000002	1.100642416	0	0	-12.13092	AAAS	5.808785734	50.00277291	0.116169272	-3.1057	SSC5D	1237.122076	161.816174	0.13080049	-2.93456
PAPOLA-DT	1.100642416	0	0	-12.13092	NDST3	5.808785734	50.00277291	0.116169272	-3.1057	PANX2	286.1670282	37.342194	0.130490903	-2.937979
RARRES2P7	1.100642416	0	0	-12.13092	CORO6	13.27722453	114.4507913	0.11600815	-3.107702	PTPRQ	89.15203572	11.61757147	0.130311903	-2.939959
ENSG000002	1.100642416	0	0	-12.13092	RTN4RL1	49.789592	430.0238471	0.115783328	-3.110501	FAT4	3387.777357	440.6378892	0.130066956	-2.942674
PPIAP47	1.100642416	0	0	-12.13092	FOXC2	48.12993894	416.6897743	0.115505448	-3.113967	CHADL	31.91863007	4.149132667	0.129990938	-2.943517
ENSG000002	1.100642416	0	0	-12.13092	GABRB2	15.76670413	136.674246	0.11535973	-3.115788	RHAG	31.91863007	4.149132667	0.129990938	-2.943517
ENSG000002	1.100642416	0	0	-12.13092	RASSF10	17.4263572	151.1194915	0.115315086	-3.116347	CSTA	31.91863007	4.149132667	0.129990938	-2.943517
ENSG000002	1.100642416	0	0	-12.13092	PLXNA4	121.9845004	1058.947613	0.115194084	-3.117861	TMEM200B	31.91863007	4.149132667	0.129990938	-2.943517
ENSG000002	1.100642416	0	0	-12.13092	ABCA9	141.0705107	1226.734696	0.114996756	-3.120335	MIOS-DT	31.91863007	4.149132667	0.129990938	-2.943517
ENSG000002	1.100642416	0	0	-12.13092	ACSBG2	4.9789592	43.33573653	0.114892687	-3.121641	RNF144B	389.6274154	50.61941854	0.129917497	-2.944332
ENSG000002	1.100642416	0	0	-12.13092	ZNF732	4.9789592	43.33573653	0.114892687	-3.121641	CCDC159	338.9978642	43.98080627	0.129737709	-2.94633
CKBP1	1.100642416	0	0	-12.13092	KRT8P46	4.9789592	43.33573653	0.114892687	-3.121641	HOXD10	140.8822293	18.25618373	0.129584716	-2.948033
ENSG000002	1.100642416	0	0	-12.13092	PAX6	6.638612267	57.78098203	0.114892687	-3.121641	CCDC158	140.8822293	18.25618373	0.129584716	-2.948033
ENSG000002	1.100642416	0	0	-12.13092	KNG1	3.319306133	28.89049102	0.114892687	-3.121641	ACSL5	494.1884449	63.89664307	0.129296109	-2.951249
LINC02193	1.100642416	0	0	-12.13092	PLA2G2F	3.319306133	28.89049102	0.114892687	-3.121641	TFPI2	38.52248457	4.9789592	0.129248133	-2.951785
ENSG000002	1.100642416	0	0	-12.13092	SLC5A4	1.659653067	14.44524551	0.114892687	-3.121641	ME3	398.4325547	51.44924507	0.12912912	-2.953114
ENSG000002	1.100642416	0	0	-12.13092	FOXN1	1.659653067	14.44524551	0.114892687	-3.121641	HGF	655.9828801	84.6423064	0.129031273	-2.954207
ENSG000002	1.100642416	0	0	-12.13092	GJA8	1.659653067	14.44524551	0.114892687	-3.121641	PPP1R14A	141.9828717	18.25618373	0.128580184	-2.95926
ENSG000002	1.100642416	0	0	-12.13092	C20orf173	1.659653067	14.44524551	0.114892687	-3.121641	TBX3	2704.278417	347.6973175	0.128573048	-2.95934
SPECC1-DT	1.100642416	0	0	-12.13092	STRA6	1.659653067	14.44524551	0.114892687	-3.121641	ABCC3	290.5695979	37.342194	0.128513768	-2.960005
ENSG000002	1.100642416	0	0	-12.13092	PMP2	1.659653067	14.44524551	0.114892687	-3.121641	LTBP1	5873.027933	754.3123188	0.128436699	-2.960871
ENSG000002	1.100642416	0	0	-12.13092	ACOT12	1.659653067	14.44524551	0.114892687	-3.121641	GPAT3	110.0642416	14.10705107	0.128171065	-2.963857
ENSG000002	1.100642416	0	0	-12.13092	OR10AD1	1.659653067	14.44524551	0.114892687	-3.121641	FER1L5	110.0642416	14.10705107	0.128171065	-2.963857
ENSG000002	1.100642416	0	0	-12.13092	TMEM262	1.659653067	14.44524551	0.114892687	-3.121641	SLC9A9	447.9614634	57.2580308	0.127819099	-2.967825
ENSG000002	1.100642416	0	0	-12.13092	FAM24A	1.659653067	14.44524551	0.114892687	-3.121641	JAML	266.3554647	34.02288787	0.127734897	-2.968775
ENSG000002	1.100642416	0	0	-12.13092	IGSF23	1.659653067	14.44524551	0.114892687	-3.121641	RASSF10	136.4796596	17.4263572	0.127684647	-2.969343
ENSG000002	1.100642416	0	0	-12.13092	RAD23BP1	1.659653067	14.44524551	0.114892687	-3.121641	LCK	91.35332055	11.61757147	0.127171858	-2.975149
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	14.44524551	0.114892687	-3.121641	STAP2	287.2676707	36.51236747	0.127102251	-2.975939
ENSG000002	1.100642416	0	0	-12.13092	OR11H12	1.659653067	14.44524551	0.114892687	-3.121641	ZBTB47	490.8865177	62.23699	0.126784884	-2.979545
LINC01751	1.100642416	0	0	-12.13092	ACSM5P1	1.659653067	14.44524551	0.114892687	-3.121641	C1R	124.372593	15.76670413	0.126769924	-2.979716
ENSG000002	1.100642416	0	0	-12.13092	LGALS9DP	1.659653067	14.44524551	0.114892687	-3.121641	EFEMP2	413.8415485	52.2790716	0.1263263	-2.984773
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	14.44524551	0.114892687	-3.121641	ATP13A4	210.2227015	26.55444907	0.126315802	-2.984893
NUP93-DT	1.100642416	0	0	-12.13092	FCGRT	166.7951332	1452.30276	0.114848734	-3.122193	MXRA5	6556.526874	826.5072272	0.126058696	-2.987832
ENSG000002	1.100642416	0	0	-12.13092	PCSK6	44.8106328	391.1328015	0.114566287	-3.125746	BBOX1	19.81156349	2.4894796	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	TRAPPC14	41.49132667	362.2423104	0.114540255	-3.126073	MPZ	19.81156349	2.4894796	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SLCO5A1	58.91768387	514.4729747	0.114520464	-3.126323	RFX6	19.81156349	2.4894796	0.125657907	-2.992427
PSMD7-DT	1.100642416	0	0	-12.13092	PTGS2	19.08601027	166.6759097	0.114509711	-3.126458	TRAJ29	19.81156349	2.4894796	0.125657907	-2.992427
TEN1-CDK3	1.100642416	0	0	-12.13092	ZNF541	17.4263572	152.2306642	0.11447337	-3.126916	ORM1	19.81156349	2.4894796	0.125657907	-2.992427
MPC1-DT	1.100642416	0	0	-12.13092	PRLR	31.53340827	275.5708374	0.11442941	-3.12747	AGAP7P	19.81156349	2.4894796	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SCARA3	51.44924507	450.0249562	0.114325315	-3.128783	TMEM176A	118.869381	14.9368776	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	COLEC12	469.6818179	4115.783797	0.114117223	-3.131412	COLGALT2	99.05781747	12.447398	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	FBXO6	9.128091867	80.00443666	0.114094821	-3.131695	BPIFB2	33.01927249	4.149132667	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	FNDC4	11.61757147	102.2278913	0.113643853	-3.137408	AKR1E2	33.01927249	4.149132667	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	POTEI	11.61757147	102.2278913	0.113643853	-3.137408	ENSG000002	33.01927249	4.149132667	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	MATN4	5.808785734	51.11394565	0.113643853	-3.137408	MS4A12	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	MTMR7	8.298265334	73.33740027	0.113151888	-3.143667	TYR	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	KCNA2	8.298265334	73.33740027	0.113151888	-3.143667	NANOG	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	KRT6A	4.149132667	36.66870014	0.113151888	-3.143667	IL12B	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	EFNA1	84.6423064	751.1527665	0.112683212	-3.149656	SEMG1	6.603854498	0.829826533	0.125657907	-2.992427
LINC02177	1.100642416	0	0	-12.13092	DLEC1	31.53340827	280.0155283	0.11261307	-3.150554	AMELX	6.603854498	0.829826533	0.125657907	-2.992427
NDUFB10P2	1.100642416	0	0	-12.13092	FNDC5	4.9789592	44.44690926	0.11202037	-3.158167	CSN1S1	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	TPSAB1	4.9789592	44.44690926	0.11202037	-3.158167	SNRPA1P1	6.603854498	0.829826533	0.125657907	-2.992427
CYLD-AS1	1.100642416	0	0	-12.13092	HAND2	2.4894796	22.22345463	0.11202037	-3.158167	IFNA16	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	OR5AU1	2.4894796	22.22345463	0.11202037	-3.158167	TRIM63	6.603854498	0.829826533	0.125657907	-2.992427
BEAN1-AS1	1.100642416	0	0	-12.13092	C2orf66	2.4894796	22.22345463	0.11202037	-3.158167	TFF2	6.603854498	0.829826533	0.125657907	-2.992427
ECI1-AS1	1.100642416	0	0	-12.13092	P2RX5-TAX	2.4894796	22.22345463	0.11202037	-3.158167	FCN2	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	22.22345463	0.11202037	-3.158167	SYNPR	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ANO3	7.4684388	66.67036389	0.11202037	-3.158167	OR4D6	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SOX9	86.30195947	772.2650483	0.111751736	-3.161631	ANKRD33	6.603854498	0.829826533	0.125657907	-2.992427
SSTR5-AS1	1.100642416	0	0	-12.13092	ENSG000002	8.298265334	74.44857301	0.111463054	-3.165363	KRT24	6.603854498	0.829826533	0.125657907	-2.992427
FOXF2-DT	1.100642416	0	0	-12.13092	GPA33	3.319306133	30.00166375	0.110637402	-3.176089	VASN	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	MMP10	3.319306133	30.00166375	0.110637402	-3.176089	TM4SF20	6.603854498	0.829826533	0.125657907	-2.992427
GOLGA8H	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	30.00166375	0.110637402	-3.176089	LGALS9B	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CCNO	10.78774493	97.78320037	0.110323091	-3.180193	RBMXL2	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CYP2C8	4.149132667	37.77987287	0.109823892	-3.186736	FGB	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	UMOD	4.149132667	37.77987287	0.109823892	-3.186736	DELEC1	6.603854498	0.829826533	0.125657907	-2.992427
LINC02186	1.100642416	0	0	-12.13092	GGN	4.149132667	37.77987287	0.109823892	-3.186736	MAB21L3	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	NPIPB10P	4.149132667	37.77987287	0.109823892	-3.186736	KCNE5	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CEMP1	4.149132667	37.77987287	0.109823892	-3.186736	OR10G7	6.603854498	0.829826533	0.125657907	-2.992427
RPH3AL-AS1	1.100642416	0	0	-12.13092	COL4A3	25.72462253	234.4574463	0.109719793	-3.188104	SOX1	6.603854498	0.829826533	0.125657907	-2.992427

ENSG000002	1.100642416	0	0	-12.13092	ZC3H12A	65.55629614	598.9221022	0.109457133	-3.191562	E2F3P2	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SYNPO2	97.0897044	887.8270124	0.109356556	-3.192888	MT1A	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	NAAA	78.83352067	721.1511027	0.109316231	-3.19342	PPIAP30	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CATSPER1	4.9789592	45.55808199	0.109288165	-3.193791	TPT1P5	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	PRAMEF15	5.808785734	53.33629111	0.108908693	-3.198809	CPEB1	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	NPC2	597.475104	5492.526811	0.108779643	-3.20052	RPS3AP21	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	PLIN1	9.128091867	84.44912759	0.10808983	-3.209697	GPC1-AS1	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	FCGR2C	12.447398	115.5619641	0.107711894	-3.214751	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	FAAH	61.40716347	571.142784	0.107516308	-3.217373	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	AGR2	19.08601027	177.787637	0.107352854	-3.219568	LGALSL-DT	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	PRKN	4.149132667	38.8910456	0.106686066	-3.228556	PRKAR2A-A	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ANKRD35	4.149132667	38.8910456	0.106686066	-3.228556	AP4B1-AS1	6.603854498	0.829826533	0.125657907	-2.992427
DPPA3P6	1.100642416	0	0	-12.13092	MFSD10	63.06681654	591.1438931	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	PPP1R3F	17.4263572	163.3423915	0.106686066	-3.228556	ADAM1B	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	GRM6	6.638612267	62.22567296	0.106686066	-3.228556	OR2M3	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	TAFA4	5.808785734	54.44746384	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	BTC	5.808785734	54.44746384	0.106686066	-3.228556	KCNQ5-AS1	6.603854498	0.829826533	0.125657907	-2.992427
EIF4A1P9	1.100642416	0	0	-12.13092	PDE6A	4.9789592	46.66925472	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
RPL23AP86	1.100642416	0	0	-12.13092	PSG6	4.9789592	46.66925472	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	HOXC12	3.319306133	31.11283648	0.106686066	-3.228556	HSPA8P18	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	OR13C4	3.319306133	31.11283648	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CIDEA	3.319306133	31.11283648	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
MTND3P13	1.100642416	0	0	-12.13092	CYP4Z1	3.319306133	31.11283648	0.106686066	-3.228556	RPL7P15	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	C4BPA	2.4894796	23.33462736	0.106686066	-3.228556	IGKV2D-28	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	FABP9	2.4894796	23.33462736	0.106686066	-3.228556	RN7SL81P	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ST20-AS1	2.4894796	23.33462736	0.106686066	-3.228556	TERF1P3	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	TULP1	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ABHD17AP5	1.100642416	0	0	-12.13092	OR7A10	1.659653067	15.55641824	0.106686066	-3.228556	KRT7-AS	6.603854498	0.829826533	0.125657907	-2.992427
MSANTD3P1	1.100642416	0	0	-12.13092	ALDOB	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
MIR3187	1.100642416	0	0	-12.13092	SYPL2	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
GTSCR1	1.100642416	0	0	-12.13092	KCNJ3	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
RN7SL689P	1.100642416	0	0	-12.13092	SLC7A3	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	OR1A2	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
RN7SL155P	1.100642416	0	0	-12.13092	OR52K2	1.659653067	15.55641824	0.106686066	-3.228556	LINC01235	6.603854498	0.829826533	0.125657907	-2.992427
MAPK8IP1P2	1.100642416	0	0	-12.13092	OR2L5	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	GZMM	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	POU3F3	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
MIR3165	1.100642416	0	0	-12.13092	ENSG000000	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
MIR3133	1.100642416	0	0	-12.13092	NAV2-AS2	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	1.659653067	15.55641824	0.106686066	-3.228556	ENSG000002	6.603854498	0.829826533	0.125657907	-2.992427
LASP1NB	1.100642416	0	0	-12.13092	ENSG000000	1.659653067	15.55641824	0.106686066	-3.228556	MRPS31P5	6.603854498	0.829826533	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	PAGE1	0.829826533	7.77820912	0.106686066	-3.228556	KCNIP4	151.8886534	19.08601027	0.125657907	-2.992427
NETO1-DT	1.100642416	0	0	-12.13092	CMA1	0.829826533	7.77820912	0.106686066	-3.228556	ICOSLG	26.41541799	3.319306133	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	MYL2	0.829826533	7.77820912	0.106686066	-3.228556	NALF1	26.41541799	3.319306133	0.125657907	-2.992427
RN7SL615P	1.100642416	0	0	-12.13092	NMUR2	0.829826533	7.77820912	0.106686066	-3.228556	ZNF835	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SNRPA1P1	0.829826533	7.77820912	0.106686066	-3.228556	ACKR4	13.207709	1.659653067	0.125657907	-2.992427
MIR4253	1.100642416	0	0	-12.13092	GC	0.829826533	7.77820912	0.106686066	-3.228556	SYPL2	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	GPR15	0.829826533	7.77820912	0.106686066	-3.228556	ASZ1	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	KCNJ9	0.829826533	7.77820912	0.106686066	-3.228556	KLHL10	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	SLC22A11	0.829826533	7.77820912	0.106686066	-3.228556	RPL39L	13.207709	1.659653067	0.125657907	-2.992427
SNRPCP4	1.100642416	0	0	-12.13092	SMR3B	0.829826533	7.77820912	0.106686066	-3.228556	KLK5	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	CSN3	0.829826533	7.77820912	0.106686066	-3.228556	XKR3	13.207709	1.659653067	0.125657907	-2.992427
MYL12-AS1	1.100642416	0	0	-12.13092	FGB	0.829826533	7.77820912	0.106686066	-3.228556	SLC25A18	13.207709	1.659653067	0.125657907	-2.992427
MIR4799	1.100642416	0	0	-12.13092	ACSM6	0.829826533	7.77820912	0.106686066	-3.228556	TEX56P	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	HORMAD2	0.829826533	7.77820912	0.106686066	-3.228556	TRAJ34	13.207709	1.659653067	0.125657907	-2.992427
RN7SL154P	1.100642416	0	0	-12.13092	OR51G2	0.829826533	7.77820912	0.106686066	-3.228556	SPATA13.1	13.207709	1.659653067	0.125657907	-2.992427
SNRPGP2	1.100642416	0	0	-12.13092	FIGLA	0.829826533	7.77820912	0.106686066	-3.228556	ANKRD63	13.207709	1.659653067	0.125657907	-2.992427
MIR5007	1.100642416	0	0	-12.13092	DDX53	0.829826533	7.77820912	0.106686066	-3.228556	SLC4A1APP1	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	KRT73	0.829826533	7.77820912	0.106686066	-3.228556	ENSG000002	13.207709	1.659653067	0.125657907	-2.992427
ENSG000002	1.100642416	0	0	-12.13092	TMEM72	0.829826533	7.77820912	0.106686066	-3.228556	WIZP1	13.207709	1.659653067	0.125657907	-2.992427
MIR4520-1	1.100642416	0	0	-12.13092	SERPINA3	0.829826533	7.77820912	0.106686066	-3.228556	PSD4	806.7708911	101.2388371	0.125486477	-2.994396
ENSG000002	1.100642416	0	0	-12.13092	GIMAP5	0.829826533	7.77820912	0.106686066	-3.228556	ADGRA2	1084.13278	135.2617249	0.124764907	-3.002716
ENSG000002	1.100642416	0	0	-12.13092	ZNF705A	0.829826533	7.77820912	0.106686066	-3.228556	TESK2	407.237694	50.61941854	0.124299443	-3.008108
MIR5706	1.100642416	0	0	-12.13092	OR8B8	0.829826533	7.77820912	0.106686066	-3.228556	PLA2R1	744.0342734	92.1107452	0.123799062	-3.013928
MIR548AR	1.100642416	0	0	-12.13092	HNRNPA1P	0.829826533	7.77820912	0.106686066	-3.228556	TMEM184A	429.2505424	53.10889814	0.123724708	-3.014794
MIR5692B	1.100642416	0	0	-12.13092	NEFHP1	0.829826533	7.77820912	0.106686066	-3.228556	SMAD6	140.8822293	17.4263572	0.123694502	-3.015147
ENSG000002	1.100642416	0	0	-12.13092	SHISA5P1	0.829826533	7.77820912	0.106686066	-3.228556	GDF7	60.5353329	7.4684388	0.123373218	-3.018899
ENSG000002	1.100642416	0	0	-12.13092	CTAGE7P	0.829826533	7.77820912	0.106686066	-3.228556	DHRS3	1314.167045	161.816174	0.12313212	-3.021721
KRT18P8	1.100642416	0	0	-12.13092	SYNE1-AS1	0.829826533	7.77820912	0.106686066	-3.228556	CD40LG	47.3276239	5.808785734	0.12273563	-3.026374
ENSG000002	1.100642416	0	0	-12.13092	HAUS6P3	0.829826533	7.77820912	0.106686066	-3.228556	MEOX2	47.3276239	5.808785734	0.12273563	-3.026374
LINC01912	1.100642416	0	0	-12.13092	FAM21FP	0.829826533	7.77820912	0.106686066	-3.228556	GAPT	47.3276239	5.808785734	0.12273563	-3.026374
ENSG000002	1.100642416	0	0	-12.13092	KRTAP20-1	0.829826533	7.77820912	0.106686066	-3.228556	ATP2C2	352.2055732	43.15097974	0.122516459	-3.028953
L3MBTL4-AS	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	HS3ST3A1	40.7237694	4.9789592	0.122261747	-3.031955
MIR3117	1.100642416	0	0	-12.13092	HNRNPCP8	0.829826533	7.77820912	0.106686066	-3.228556	SOX9	706.6124313	86.30195947	0.122134788	-3.033454
MIR4420	1.100642416	0	0	-12.13092	TIFAB	0.829826533	7.77820912	0.106686066	-3.228556	FZD7	272.9593192	33.19306133	0.121604426	-3.039732
ENSG000002	1.100642416	0	0	-12.13092	PDE2A-AS2	0.829826533	7.77820912	0.106686066	-3.228556	HOXD9	34.11991491	4.149132667	0.121604426	-3.039732
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	CD8A	95.75589022	11.61757147	0.121324876	-3.043053
MIR3613	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	ATP8A1	3317.336243	400.8062156	0.120821703	-3.049048
RN7SL230P	1.100642416	0	0	-12.13092	HPR	0.829826533	7.77820912	0.106686066	-3.228556	GIMAP2	82.54818122	9.9579184	0.120631591	-3.05132
MIR4474	1.100642416	0	0	-12.13092	SLC25A51P	0.829826533	7.77820912	0.106686066	-3.228556	GPR18	27.51606041	3.319306133	0.120631591	-3.05132
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	LUM	5053.049333	609.0926755	0.120539626	-3.052421
SNORD3B-1	1.100642416	0	0	-12.13092	MIR432	0.829826533	7.77820912	0.106686066	-3.228556	DDX3Y	1617.944352	195.0092353	0.120529013	-3.052548
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	TRPS1	6870.209963	824.8475742	0.12006148	-3.058155
ENSG000002	1.100642416	0	0	-12.13092	SPATA31A7	0.829826533	7.77820912	0.106686066	-3.228556	UBASH3A	48.42826632	5.808785734	0.119946184	-3.059541
FEM1AP2	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	KHDRBS3	214.6252712	25.72462253	0.119858311	-3.060598
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	MIR99AHG	402.8351244	48.12993894	0.11947801	-3.065183
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	PREX2	1477.062123	175.9232251	0.119103471	-3.069713
ENSG000002	1.100642416	0	0	-12.13092	ENSG000000	0.829826533	7.77820912	0.106686066	-3.228556	GNA15	83.64882364	9.9579184	0.119044333	-3.070429
ENSG000002	1.100642416	0	0	-12.13092	SLC26A2	291.2691132	2733.484919	0.106555961	-3.230317	SLFNL1	20.91220591	2.4894796	0.119044333	-3.070429
MIR4682	1.100642416	0	0	-12.13092	ATXN1	207.4566333	1953.441662	0.106200578	-3.235136	SLC12A1	62.73661773	7.4684388	0.119044333	-3.070429
ENSG000002	1.100642416	0	0	-12.13092	HPN	110.3669289	1042.280022	0.105889902	-3.239363	BIRC3	635.0706742	75.51421454	0.118906789	-3.072097
MIR3944	1.100642416	0	0	-12.13092	ADH1B	23.23514293	220.0122008	0.105608429	-3.243203	CGREF1	223.4304105	26.55444907	0.118848858	-3.0728
ENSG000002	1.100642416	0	0	-12.13092	ZC3H12B	9.128091867	86.67147305	0.105318296	-3.247172	AVIL	181.6059987	21.57548987	0.118803839	-3.073347
ENSG000002	1.100642416	0	0	-12.13092	REEP6	51.44924507	488.9160018	0.105231256	-3.248365	FABP3	293.8715252	34.8527144	0.118598474	-3.075843
MIR4768	1.100642416	0	0	-12.13092	FMOD	334.4200929	3183.509876	0.105047607	-3.250885	FBP1	293.8715252	34.8527144	0.118598474	-3.075843
LINC01915	1.100642416	0	0	-12.13092	CACNA1D	365.1236747	3487.971204	0.104680817	-3.255931	HEPH	323.5888704	38.17202053	0.117964566	-3.083575
MIR548V	1.100642416	0	0	-12.13092	STAMBPL1	5.808785734	55.55863657	0.104552345	-3.257703	SLC9A2	844.1927333	99.579184	0.117957879	-3.083656
ENSG000002	1.100642416	0	0	-12.13092	POTEG	5.808785734	55.55863657	0.104552345	-3.257703	CDKL2	35.22055732	4.149132667	0.117804288	-3.085536
MIR4756	1.100642416	0	0	-12.13092	ADH1C	5.808785734	55.55863657	0.104552345	-3.257703	GRK3	3941.400493	463.8730322	0.117692438	-3.086906
ENSG000002	1.100642416	0	0	-12.13092	SLC39A11	72.1949084	691.149439	0.104456293	-3.259029	SNHG11	63.83726015	7.4684388	0.116991844	-3.09552

MIR3612	1.100642416	0	0	-12.13092	RARRES1	15.76670413	151.1194915	0.104332697	-3.260737	CCND2	205.8201318	24.06496947	0.11692233	-3.096378
SNORA74C-1	1.100642416	0	0	-12.13092	HRNR	15.76670413	151.1194915	0.104332697	-3.260737	DACT1	205.8201318	24.06496947	0.11692233	-3.096378
ENSG000002	1.100642416	0	0	-12.13092	DUOX2	9.9579184	95.5608549	0.104204995	-3.262504	LRIG1	2031.7859	237.3303885	0.116808758	-3.09778
ENSG000002	1.100642416	0	0	-12.13092	ZMAT1	44.8106328	430.0238471	0.104204995	-3.262504	ALDOC	92.45396297	10.78774493	0.116682342	-3.099342
RN7SL49P	1.100642416	0	0	-12.13092	ADAMTS3	13.27722453	127.7848641	0.103902951	-3.266691	SMO	356.6081429	41.49132667	0.116349914	-3.103458
MIR4514	1.100642416	0	0	-12.13092	FAM110C	13.27722453	127.7848641	0.103902951	-3.266691	LPAR3	186.0085684	21.57548987	0.115991914	-3.107904
RN7SL311P	1.100642416	0	0	-12.13092	ALB	7.4684388	72.22622754	0.103403418	-3.273644	IL15RA	171.7002169	19.9158368	0.115991914	-3.107904
ENSG000002	1.100642416	0	0	-12.13092	RASL11A	10.78774493	104.4502368	0.103281192	-3.275351	ECRG4	57.23340565	6.638612267	0.115991914	-3.107904
MIR3685	1.100642416	0	0	-12.13092	CP	35.68254093	345.5747195	0.103255646	-3.275707	CYP24A1	28.61670282	3.319306133	0.115991914	-3.107904
RN7SL577P	1.100642416	0	0	-12.13092	AIFM3	3.319306133	32.22400921	0.103007236	-3.279182	CCR7	28.61670282	3.319306133	0.115991914	-3.107904
MIR3617	1.100642416	0	0	-12.13092	UBL4B	3.319306133	32.22400921	0.103007236	-3.279182	PI16	28.61670282	3.319306133	0.115991914	-3.107904
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	32.22400921	0.103007236	-3.279182	C4orf19	14.30835141	1.659653067	0.115991914	-3.107904
MIR5192	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	32.22400921	0.103007236	-3.279182	SCGB3A1	14.30835141	1.659653067	0.115991914	-3.107904
ZNF415P1	1.100642416	0	0	-12.13092	SELENBP1	255.5865723	2482.359882	0.102961127	-3.279828	GPR82	14.30835141	1.659653067	0.115991914	-3.107904
MIR3176	1.100642416	0	0	-12.13092	SELENOM	59.7475104	583.365684	0.102418624	-3.28745	SHISAL2A	14.30835141	1.659653067	0.115991914	-3.107904
MIR5091	1.100642416	0	0	-12.13092	IL12RB1	8.298265334	81.11560939	0.102301707	-3.289098	MICA	14.30835141	1.659653067	0.115991914	-3.107904
MIR3665	1.100642416	0	0	-12.13092	ZYX	10.78774493	105.5614095	0.102194021	-3.290617	GCC2-AS1	14.30835141	1.659653067	0.115991914	-3.107904
ENSG000002	1.100642416	0	0	-12.13092	PTPRR	4.9789592	48.89160018	0.1018367	-3.295671	OR2AE1	14.30835141	1.659653067	0.115991914	-3.107904
LINC02074	1.100642416	0	0	-12.13092	SLC17A1	2.4894796	24.44580009	0.1018367	-3.295671	ARHGAP28	1081.931495	125.3038065	0.115814917	-3.110107
ENSG000002	1.100642416	0	0	-12.13092	TMPRSS11E	2.4894796	24.44580009	0.1018367	-3.295671	PRLR	272.9593192	31.53340827	0.115524205	-3.113733
RN7SL118P	1.100642416	0	0	-12.13092	PKD1P3	2.4894796	24.44580009	0.1018367	-3.295671	OSGIN1	50.62955115	5.808785734	0.114731132	-3.123671
HELZ-AS1	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	24.44580009	0.1018367	-3.295671	HAAO	50.62955115	5.808785734	0.114731132	-3.123671
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	24.44580009	0.1018367	-3.295671	FAAH	536.0128567	61.40716347	0.114562856	-3.125789
ENSG000002	1.100642416	0	0	-12.13092	STIM2	78.00369414	768.9315302	0.101444265	-3.301241	CDO1	36.32119974	4.149132667	0.114234461	-3.12993
LONRF2P1	1.100642416	0	0	-12.13092	GAA	39.8316736	393.3551469	0.101261351	-3.303844	TLR3	298.2740948	34.02288787	0.114065849	-3.132061
COP1P1	1.100642416	0	0	-12.13092	PLPPR2	112.026582	1106.728041	0.101223225	-3.304388	ADGRF1	152.9892959	17.4263572	0.113905729	-3.134088
MIR4742	1.100642416	0	0	-12.13092	OAF	21.57548987	213.3451644	0.1011295	-3.305724	IL20RA	160.6937928	18.25618373	0.113608519	-3.137857
ENSG000002	1.100642416	0	0	-12.13092	IQSEC2	124.47398	1232.290559	0.101010252	-3.307426	SSPN	88.0513933	9.9579184	0.113092116	-3.14443
MIR5692C2	1.100642416	0	0	-12.13092	PLD5	4.149132667	41.11339106	0.100919252	-3.308727	APOBEC3B	44.02569665	4.9789592	0.113092116	-3.14443
ENSG000002	1.100642416	0	0	-12.13092	GRPR	8.298265334	82.22678213	0.100919252	-3.308727	ADAMTS9-A	44.02569665	4.9789592	0.113092116	-3.14443
ENSG000002	1.100642416	0	0	-12.13092	PRKD1	408.2746544	4069.114543	0.100335011	-3.317103	ART3	22.01284833	2.4894796	0.113092116	-3.14443
ENSG000002	1.100642416	0	0	-12.13092	PLAAT4	10.78774493	107.7837549	0.100086928	-3.320675	CYP7A1	22.01284833	2.4894796	0.113092116	-3.14443
ENSG000002	1.100642416	0	0	-12.13092	APOD	2969.119336	29762.76161	0.099759538	-3.325401	KLK15	22.01284833	2.4894796	0.113092116	-3.14443
RN7SL7P	1.100642416	0	0	-12.13092	GRM1	8.298265334	83.33795486	0.099573662	-3.328092	STIM2	691.2034374	78.00369414	0.112852006	-3.147496
ENSG000002	1.100642416	0	0	-12.13092	CDC20B	4.9789592	50.00277291	0.099573662	-3.328092	ITGA9	117.7687385	13.27722453	0.112739804	-3.148931
ENSG000002	1.100642416	0	0	-12.13092	OMD	3.319306133	33.33518194	0.099573662	-3.328092	SVIP	103.4603871	11.61757147	0.112290044	-3.154698
AKR1B1P7	1.100642416	0	0	-12.13092	BNIP5	3.319306133	33.33518194	0.099573662	-3.328092	GPR141	51.73019357	5.808785734	0.112290044	-3.154698
ZNF793-AS1	1.100642416	0	0	-12.13092	ICOS	1.659653067	16.66759097	0.099573662	-3.328092	CAPN6	29.71734524	3.319306133	0.111695917	-3.162352
ENSG000002	1.100642416	0	0	-12.13092	IL17D	1.659653067	16.66759097	0.099573662	-3.328092	ADIRF	96.85653263	10.78774493	0.111378599	-3.166456
ENSG000002	1.100642416	0	0	-12.13092	RHD	1.659653067	16.66759097	0.099573662	-3.328092	SLC38A5	67.13918739	7.4684388	0.111238147	-3.168276
ENSG000002	1.100642416	0	0	-12.13092	CYP2F1	1.659653067	16.66759097	0.099573662	-3.328092	FANCF	74.84368431	8.298265334	0.110874624	-3.172999
ENSG000002	1.100642416	0	0	-12.13092	ANHX	1.659653067	16.66759097	0.099573662	-3.328092	WSCD2	37.42184215	4.149132667	0.110874624	-3.172999
ENSG000002	1.100642416	0	0	-12.13092	PRPS1L1	1.659653067	16.66759097	0.099573662	-3.328092	MN1	285.0663858	31.53340827	0.110617771	-3.176345
ENSG000002	1.100642416	0	0	-12.13092	IGKV1D-16	1.659653067	16.66759097	0.099573662	-3.328092	SKAP1	127.6745203	14.10705107	0.110492297	-3.177982
ENSG000002	1.100642416	0	0	-12.13092	USP17L22	1.659653067	16.66759097	0.099573662	-3.328092	SLC2A12	1690.586751	186.71097	0.11044152	-3.178645
PCAT19	1.100642416	0	0	-12.13092	ARMS2	1.659653067	16.66759097	0.099573662	-3.328092	ABCA8	1353.790172	149.368776	0.110333772	-3.180054
SCAT1	1.100642416	0	0	-12.13092	FCGBP	46.47028587	468.9148927	0.099101749	-3.334946	IL1RL2	45.12633907	4.9789592	0.110333772	-3.180054
ENSG000002	1.100642416	0	0	-12.13092	ACOX3	100.4090105	1014.500704	0.09897382	-3.336809	ZC4H2	45.12633907	4.9789592	0.110333772	-3.180054
LINC01924	1.100642416	0	0	-12.13092	PGR	7.4684388	75.55974574	0.098841503	-3.338739	ENSG000002	45.12633907	4.9789592	0.110333772	-3.180054
ENSG000002	1.100642416	0	0	-12.13092	KIF7	38.17202053	386.6881105	0.098715268	-3.340583	SFRP1	1702.693818	187.5407965	0.110143582	-3.182543
ENSG000002	1.100642416	0	0	-12.13092	AP1G2-AS1	37.342194	380.0210742	0.098263482	-3.347201	RASL11A	97.95717505	10.78774493	0.110127154	-3.182758
ENSG000002	1.100642416	0	0	-12.13092	KASH5	4.149132667	42.22456379	0.098263482	-3.347201	MAML2	2456.633873	269.6936233	0.109781773	-3.18729
ENSG000002	1.100642416	0	0	-12.13092	MEGF10	32.3632348	330.0183012	0.09806497	-3.350118	ITIH5	537.1134992	58.91768387	0.109693173	-3.188454
ENSG000002	1.100642416	0	0	-12.13092	RDH10	134.4318984	1372.298323	0.097961133	-3.351647	KCNJ5	60.5353329	6.638612267	0.109665082	-3.188824
ENSG000002	1.100642416	0	0	-12.13092	ECRG4	6.638612267	67.78153662	0.097941307	-3.351939	H2AJ	2338.865135	256.4163988	0.109632828	-3.189248
ENSG000002	1.100642416	0	0	-12.13092	COPZ2	16.59653067	170.0094279	0.097621237	-3.356661	AEBP1	6726.025806	736.8859616	0.109557409	-3.190241
PARD6G-AS	1.100642416	0	0	-12.13092	GALNT17	4.9789592	51.11394565	0.097409017	-3.359801	HOXD1	128.7751627	14.10705107	0.109547919	-3.190366
LINC01140	1.100642416	0	0	-12.13092	ACSBG1	2.4894796	25.55697282	0.097409017	-3.359801	ZC3H12B	83.64882364	9.128091867	0.109123972	-3.19596
ENSG000002	1.100642416	0	0	-12.13092	GAD2	2.4894796	25.55697282	0.097409017	-3.359801	RASSF9	83.64882364	9.128091867	0.109123972	-3.19596
ENSG000002	1.100642416	0	0	-12.13092	DACT2	2.4894796	25.55697282	0.097409017	-3.359801	C1S	5825.700309	633.157645	0.108683525	-3.201795
ENSG000002	1.100642416	0	0	-12.13092	CYP7A1	2.4894796	25.55697282	0.097409017	-3.359801	FGF2	191.5117804	20.74566333	0.108325782	-3.206551
RNFT1-DT	1.100642416	0	0	-12.13092	SPATA31E1	2.4894796	25.55697282	0.097409017	-3.359801	COL16A1	1065.421859	115.3458881	0.108263114	-3.207386
LINC01764	1.100642416	0	0	-12.13092	D2HGDH	184.2214904	1894.549507	0.097237623	-3.362342	RGMB	669.1905891	72.1949084	0.107883927	-3.212448
ENSG000002	1.100642416	0	0	-12.13092	FIBIN	34.02288787	350.0194104	0.09720286	-3.362857	CYSLTR1	61.63597531	6.638612267	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	LPA	8.298265334	85.56030032	0.096987333	-3.36606	TMEM156	38.52248457	4.149132667	0.107706777	-3.214819
LINC01415	1.100642416	0	0	-12.13092	SLC6A20	182.5618373	1888.993643	0.096645025	-3.371161	GPR87	30.81798766	3.319306133	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	NRXN1	125.3038065	1296.738578	0.096629967	-3.371386	LURAP1	30.81798766	3.319306133	0.107706777	-3.214819
LINC01478	1.100642416	0	0	-12.13092	BHLHE40	412.4237871	4270.236807	0.096581011	-3.372117	GJD3	30.81798766	3.319306133	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	C2CD4B	9.9579184	103.339064	0.096361608	-3.375398	ENSG000002	30.81798766	3.319306133	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	CALML6	3.319306133	34.44635467	0.096361608	-3.375398	WNT10B	15.40899383	1.659653067	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	LURAP1	3.319306133	34.44635467	0.096361608	-3.375398	EVX2	15.40899383	1.659653067	0.107706777	-3.214819
KDSR-DT	1.100642416	0	0	-12.13092	CYP4A11	3.319306133	34.44635467	0.096361608	-3.375398	APOF	15.40899383	1.659653067	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	AOC1	331.9306133	3453.524849	0.096113573	-3.379116	MOB2	15.40899383	1.659653067	0.107706777	-3.214819
HEATR6-DT	1.100642416	0	0	-12.13092	EGF	8.298265334	86.67147305	0.095743906	-3.384676	SPATA45	15.40899383	1.659653067	0.107706777	-3.214819
ZFP28-DT	1.100642416	0	0	-12.13092	KCNU1	8.298265334	86.67147305	0.095743906	-3.384676	TRAJ25	15.40899383	1.659653067	0.107706777	-3.214819
LINC02594	1.100642416	0	0	-12.13092	OR4D1	4.149132667	43.33573653	0.095743906	-3.384676	RPL7L1P9	15.40899383	1.659653067	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	AASS	109.5371024	1145.619086	0.095613894	-3.386636	ENSG000002	15.40899383	1.659653067	0.107706777	-3.214819
APOC4	1.100642416	0	0	-12.13092	NTRK3	153.5179087	1605.644597	0.095611388	-3.386674	ENSG000002	15.40899383	1.659653067	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	TBC1D3L	9.9579184	104.4502368	0.095336485	-3.390828	PDE6C	7.704496914	0.829826533	0.107706777	-3.214819
NUDT19-DT	1.100642416	0	0	-12.13092	SLC2A3P2	4.9789592	52.22511838	0.095336485	-3.390828	IL11	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	MXRA8	89.6212656	941.1633035	0.095223927	-3.392532	PLA2G2D	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	CLSTN3	5.808785734	61.11450023	0.095047586	-3.395206	CITED1	7.704496914	0.829826533	0.107706777	-3.214819
LINC01837	1.100642416	0	0	-12.13092	ABCA4	20.74566333	218.9010281	0.094771886	-3.399397	SLC22A7	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	SSTR1	33.19306133	351.1305831	0.094531957	-3.403054	FGF5	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	OTOG	8.298265334	87.78264578	0.094531957	-3.403054	NPFF	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	TRIM45	183.3916639	1954.552835	0.093827939	-3.413839	GHRL	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	SMIM20	7.4684388	80.00443666	0.093350308	-3.421201	CLEC18A	7.704496914	0.829826533	0.107706777	-3.214819
KRT8P5	1.100642416	0	0	-12.13092	IL19	4.149132667	44.44690926	0.093350308	-3.421201	XCR1	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	OR2M1P	4.149132667	44.44690926	0.093350308	-3.421201	NBPF17P	7.704496914	0.829826533	0.107706777	-3.214819
LINC01926	1.100642416	0	0	-12.13092	EFEMP2	52.2790716	560.0310566	0.093350308	-3.421201	HS6ST3	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	POF1B	2.4894796	26.66814555	0.093350308	-3.421201	HPDL	7.704496914	0.829826533	0.107706777	-3.214819
TSHZ3-AS1	1.100642416	0	0	-12.13092	OR1L4	2.4894796	26.66814555	0.093350308	-3.421201	SERPINA3	7.704496914	0.829826533	0.107706777	-3.214819
THA1P	1.100642416	0	0	-12.13092	BEST4	2.4894796	26.66814555	0.093350308	-3.421201	ST8SIA6-AS1	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	OR7D2	2.4894796	26.66814555	0.093350308	-3.421201	PRR23A	7.704496914	0.829826533	0.107706777	-3.214819
EIF5AP2	1.100642416	0	0	-12.13092	FREM2	6.638612267	71.11505481	0.093350308	-3.421201	TRGJP1	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	HDGFL1	3.319306133	35.55752741	0.093350308	-3.421201	TRAJ21	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	ITLN2	3.319306133	35.55752741	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	PGAM2	3.319306133	35.55752741	0.093350308	-3.421201	TTTY10	7.704496914	0.829826533	0.107706777	-3.214819
LINC02078	1.100642416	0	0	-12.13092	DHRSX	3.319306133	35.55752741	0.093350308	-3.421201	APPAT	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	GRIN3B	1.659653067	17.7787637	0.093350308	-3.421201	ITPR1-DT	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	CYP1A1	1.659653067	17.7787637	0.093350308	-3.421201	PPIAP70	7.704496914	0.829826533	0.107706777	-3.214819

HMGB2P1	1.100642416	0	0	-12.13092	SLC7A13	1.659653067	17.7787637	0.093350308	-3.421201	AP2B1P1	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	APOF	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	DCAF4L1	1.659653067	17.7787637	0.093350308	-3.421201	DIO3OS	7.704496914	0.829826533	0.107706777	-3.214819
LINC01533	1.100642416	0	0	-12.13092	ADAP2	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	MDS2	1.659653067	17.7787637	0.093350308	-3.421201	KRT8P50	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ZNF460-AS1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	17.7787637	0.093350308	-3.421201	CCDC39	7.704496914	0.829826533	0.107706777	-3.214819
SNX6P1	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	17.7787637	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
FMR1-AS1	1.100642416	0	0	-12.13092	UTS2	0.829826533	8.889381852	0.093350308	-3.421201	ENSG000002	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	CCL22	0.829826533	8.889381852	0.093350308	-3.421201	SORD2P	7.704496914	0.829826533	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	P2RX1	0.829826533	8.889381852	0.093350308	-3.421201	PTPRZ1	138.6809445	14.9368776	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	INSL6	0.829826533	8.889381852	0.093350308	-3.421201	FMN2	130.9764475	14.10705107	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	PI3	0.829826533	8.889381852	0.093350308	-3.421201	PHF1	69.34047223	7.4684388	0.107706777	-3.214819
AIRN	1.100642416	0	0	-12.13092	CCDC65	0.829826533	8.889381852	0.093350308	-3.421201	CD247	53.9314784	5.808785734	0.107706777	-3.214819
VN1R78P	1.100642416	0	0	-12.13092	TRIM48	0.829826533	8.889381852	0.093350308	-3.421201	NWD2	23.11349074	2.4894796	0.107706777	-3.214819
ENSG000002	1.100642416	0	0	-12.13092	GHRL	0.829826533	8.889381852	0.093350308	-3.421201	C7	1620.145637	174.263572	0.107560437	-3.216781
SERTAD3-AS	1.100642416	0	0	-12.13092	GPR101	0.829826533	8.889381852	0.093350308	-3.421201	TRPC4	380.822276	40.66150013	0.106772904	-3.227383
ENSG000002	1.100642416	0	0	-12.13092	CDC42EP5	0.829826533	8.889381852	0.093350308	-3.421201	HLA-DQA1	662.5867346	70.53525534	0.106454373	-3.231693
ENSG000002	1.100642416	0	0	-12.13092	VAT1L	0.829826533	8.889381852	0.093350308	-3.421201	PRKY	156.2912231	16.59653067	0.10618978	-3.235283
ENSG000002	1.100642416	0	0	-12.13092	KRT2	0.829826533	8.889381852	0.093350308	-3.421201	TNFSF13B	78.14561156	8.298265334	0.10618978	-3.235283
ENSG000002	1.100642416	0	0	-12.13092	AGTR2	0.829826533	8.889381852	0.093350308	-3.421201	EMILIN1	851.8972302	90.45109214	0.106176061	-3.23547
ENSG000002	1.100642416	0	0	-12.13092	CLDN24	0.829826533	8.889381852	0.093350308	-3.421201	IQCA1	55.03212081	5.808785734	0.105552642	-3.243965
VN1R107P	1.100642416	0	0	-12.13092	SMIM21	0.829826533	8.889381852	0.093350308	-3.421201	CLMP	300.4753796	31.53340827	0.104945065	-3.252294
ENSG000002	1.100642416	0	0	-12.13092	PRR23A	0.829826533	8.889381852	0.093350308	-3.421201	CAPN3	39.62312699	4.149132667	0.104714922	-3.255461
ENSG000002	1.100642416	0	0	-12.13092	IGLV5-52	0.829826533	8.889381852	0.093350308	-3.421201	GGN	39.62312699	4.149132667	0.104714922	-3.255461
ENSG000002	1.100642416	0	0	-12.13092	IGLJ4	0.829826533	8.889381852	0.093350308	-3.421201	MPPED2	348.903646	36.51236747	0.104648856	-3.256372
CTAG1A	1.100642416	0	0	-12.13092	CSH2	0.829826533	8.889381852	0.093350308	-3.421201	SSPOP	269.657392	28.21410213	0.104629441	-3.256639
MIMT1	1.100642416	0	0	-12.13092	C4B	0.829826533	8.889381852	0.093350308	-3.421201	SLC16A9	310.3811614	32.3632348	0.104269327	-3.261613
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	FGF7	430.3511848	44.8106328	0.104125734	-3.263601
ENSG000002	1.100642416	0	0	-12.13092	DNMBP-AS	0.829826533	8.889381852	0.093350308	-3.421201	DUOX2	95.75589022	9.9579184	0.103992751	-3.265445
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	ZNF831	63.83726015	6.638612267	0.103992751	-3.265445
HSFX2	1.100642416	0	0	-12.13092	COL4A2-AS	0.829826533	8.889381852	0.093350308	-3.421201	ZMYND10	31.91863007	3.319306133	0.103992751	-3.265445
ENSG000002	1.100642416	0	0	-12.13092	CHL1-AS1	0.829826533	8.889381852	0.093350308	-3.421201	NTN5	31.91863007	3.319306133	0.103992751	-3.265445
ENSG000002	1.100642416	0	0	-12.13092	KRTAP19-3	0.829826533	8.889381852	0.093350308	-3.421201	LTBP4	5099.276315	530.2591548	0.103987139	-3.265523
LIF-AS2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	COL14A1	2598.616745	269.6936233	0.103783532	-3.268351
SIGLEC22P	1.100642416	0	0	-12.13092	PIGHP1	0.829826533	8.889381852	0.093350308	-3.421201	MTMR8	56.13276323	5.808785734	0.103482982	-3.272535
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	FCGR2C	121.0706658	12.447398	0.102811015	-3.281933
SPANXN2	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	SLC35F4	24.21413316	2.4894796	0.102811015	-3.281933
MAN1B1-DT	1.100642416	0	0	-12.13092	KRT8P50	0.829826533	8.889381852	0.093350308	-3.421201	PTGDR	24.21413316	2.4894796	0.102811015	-3.281933
LINC01838	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	KRT86	24.21413316	2.4894796	0.102811015	-3.281933
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	OR51A7	24.21413316	2.4894796	0.102811015	-3.281933
BNIP3P18	1.100642416	0	0	-12.13092	CTAGE6	0.829826533	8.889381852	0.093350308	-3.421201	CDH13-AS2	24.21413316	2.4894796	0.102811015	-3.281933
CALR3	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	PARP8	1534.295528	157.6670413	0.102761846	-3.282623
LINC02965	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	8.889381852	0.093350308	-3.421201	CREB3L2	3218.278425	328.6113072	0.102107793	-3.291835
ENSG000002	1.100642416	0	0	-12.13092	C2orf83.1	0.829826533	8.889381852	0.093350308	-3.421201	KLHL35	40.7237694	4.149132667	0.101884789	-3.294989
ENSG000002	1.100642416	0	0	-12.13092	WNT5A	185.0513169	1984.554498	0.093245772	-3.422818	DGKA	464.4710997	47.3001124	0.101836503	-3.295673
LINC00528	1.100642416	0	0	-12.13092	CLSTN2	103.7283167	1114.50625	0.093071095	-3.425523	GZMB	57.23340565	5.808785734	0.101492925	-3.300549
ENSG000002	1.100642416	0	0	-12.13092	ZMYND15	9.128091867	98.8943731	0.092301428	-3.437503	A2M	29017.33666	2943.394714	0.10143573	-3.301362
ENSG000002	1.100642416	0	0	-12.13092	ANKK1	9.128091867	98.8943731	0.092301428	-3.437503	CACNA1D	3605.704556	365.1236747	0.101262782	-3.303824
RAD54L2P1	1.100642416	0	0	-12.13092	DHRS3	161.816174	1757.875261	0.092052137	-3.441405	ADAM32	139.7815869	14.10705107	0.100922098	-3.308686
ENSG000002	1.100642416	0	0	-12.13092	KCNN1	18.25618373	198.8999189	0.091785778	-3.445586	KDM5D	1754.424012	176.7530516	0.100747055	-3.31119
ENSG000002	1.100642416	0	0	-12.13092	NFIX	137.7512045	1506.750224	0.09142272	-3.451303	CARMN	610.856541	61.40716347	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	LRRC75B	17.4263572	191.1217098	0.091179371	-3.455149	PPIAP2	66.03854498	6.638612267	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	ELMO3	8.298265334	91.11616398	0.091073471	-3.456825	GRAMD1B	49.52890873	4.9789592	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	RNF144B	50.61941854	556.6975385	0.090928044	-3.459131	OLR1	49.52890873	4.9789592	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	GNAL	10.78774493	118.8954823	0.09073301	-3.462229	UGT1A6	16.50963624	1.659653067	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	NLRP5	3.319306133	36.66870014	0.090521511	-3.465596	TMPRSS11F	16.50963624	1.659653067	0.100526325	-3.314355
CT45A10	1.100642416	0	0	-12.13092	FAM162B	3.319306133	36.66870014	0.090521511	-3.465596	TRAV13-1	16.50963624	1.659653067	0.100526325	-3.314355
MTDHP2	1.100642416	0	0	-12.13092	DGKQ	44.8106328	495.5830382	0.090420029	-3.467214	APOBEC3D	16.50963624	1.659653067	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	CLIP4	55.59837774	617.8120387	0.089992383	-3.474053	ENSG000002	16.50963624	1.659653067	0.100526325	-3.314355
ENSG000002	1.100642416	0	0	-12.13092	BOC	87.96161254	977.8320037	0.089955751	-3.474641	PKP1	405.0364092	40.66150013	0.100389741	-3.316316
CCDC194	1.100642416	0	0	-12.13092	YAP1	131.1125923	1458.969796	0.089866557	-3.476072	PDE3A	686.8008678	68.87560227	0.100284676	-3.317827
ENSG000002	1.100642416	0	0	-12.13092	AGXT2	2.4894796	27.77931829	0.089616296	-3.480095	RASGRP1	190.411138	19.08601027	0.100235787	-3.31853
ENSG000002	1.100642416	0	0	-12.13092	SHBG	2.4894796	27.77931829	0.089616296	-3.480095	GUCY1A1	1131.460404	112.8564085	0.099744019	-3.325626
ENSG000002	1.100642416	0	0	-12.13092	DSC1	2.4894796	27.77931829	0.089616296	-3.480095	NXPH3	242.1413316	24.06496947	0.099383981	-3.330843
ENSG000002	1.100642416	0	0	-12.13092	OR10A7	2.4894796	27.77931829	0.089616296	-3.480095	NUPR1	41.82441182	4.149132667	0.099203611	-3.333464
ENSG000002	1.100642416	0	0	-12.13092	WFDC10B	2.4894796	27.77931829	0.089616296	-3.480095	PDE4B	578.937911	57.2580308	0.098901851	-3.337859
ENSG000002	1.100642416	0	0	-12.13092	LRRC74B	2.4894796	27.77931829	0.089616296	-3.480095	CRIM1	1971.250568	194.1794088	0.098505696	-3.343649
ENSG000002	1.100642416	0	0	-12.13092	TNFSF10	99.579184	1115.617422	0.089259259	-3.485854	IGKV1D-33	25.31477557	2.4894796	0.098340971	-3.346064
ENSG000002	1.100642416	0	0	-12.13092	EIF3CL	24.894796	280.0155283	0.088905055	-3.491591	SYNM-AS2	25.31477557	2.4894796	0.098340971	-3.346064
ENSG000002	1.100642416	0	0	-12.13092	COL25A1	12.447398	140.0077642	0.088905055	-3.491591	LXN	346.7023611	34.02288787	0.098132842	-3.34912
ENSG000002	1.100642416	0	0	-12.13092	GNAT2	4.149132667	46.66925472	0.088905055	-3.491591	MS4A14	237.7387619	23.23514293	0.097733928	-3.354997
ENSG000002	1.100642416	0	0	-12.13092	KLB	4.149132667	46.66925472	0.088905055	-3.491591	SLC22A3	127.6745203	12.447398	0.097493204	-3.358555
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	46.66925472	0.088905055	-3.491591	DENND1C	195.9143501	19.08601027	0.097420175	-3.359636
ENSG000002	1.100642416	0	0	-12.13092	AGRN	934.3846766	10517.2499	0.088843061	-3.492597	KNG1	34.11991491	3.319306133	0.097283541	-3.36166
ENSG000002	1.100642416	0	0	-12.13092	SYTL2	813.2300027	9187.176144	0.08851795	-3.497886	GDNF	77.04496914	7.4684388	0.0969361	-3.366822
ENSG000002	1.100642416	0	0	-12.13092	SEMA3C	81.32300027	923.3845398	0.088070567	-3.505196	CNGA1	343.4004339	33.19306133	0.096659928	-3.370938
ENSG000002	1.100642416	0	0	-12.13092	TBX4	3.319306133	37.77987287	0.087859113	-3.508664	PAX1	42.92505424	4.149132667	0.096659928	-3.370938
LINC02893	1.100642416	0	0	-12.13092	SVOPL	3.319306133	37.77987287	0.087859113	-3.508664	GOLT1A	42.92505424	4.149132667	0.096659928	-3.370938
ENSG000002	1.100642416	0	0	-12.13092	ZP3	3.319306133	37.77987287	0.087859113	-3.508664	CXCL12	584.4411231	56.42820427	0.096550708	-3.372569
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	3.319306133	37.77987287	0.087859113	-3.508664	DTX2	596.5481896	57.2580308	0.095982239	-3.381089
ENSG000002	1.100642416	0	0	-12.13092	GLP2R	1.659653067	18.88993643	0.087859113	-3.508664	ALB	78.14561156	7.4684388	0.095570802	-3.387286
CELF2-DT	1.100642416	0	0	-12.13092	ACP4	1.659653067	18.88993643	0.087859113	-3.508664	BCL11B	95.75589022	9.128091867	0.095326688	-3.390976
ST8SIA5-DT	1.100642416	0	0	-12.13092	UGT1A6	1.659653067	18.88993643	0.087859113	-3.508664	SELP	132.07709	12.447398	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	OR4C6	1.659653067	18.88993643	0.087859113	-3.508664	C2CD6	193.7130653	18.25618373	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	KCNK18	1.659653067	18.88993643	0.087859113	-3.508664	EDA2R	44.02569665	4.149132667	0.09424343	-3.407464
TERC	1.100642416	0	0	-12.13092	KRTAP19-6	1.659653067	18.88993643	0.087859113	-3.508664	PTPN7	44.02569665	4.149132667	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	TRAJ48	1.659653067	18.88993643	0.087859113	-3.508664	HECW1	114.4668113	10.78774493	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	18.88993643	0.087859113	-3.508664	CLCA4	52.83083598	4.9789592	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	FOSL1P1	1.659653067	18.88993643	0.087859113	-3.508664	SMPDL3A	369.8158519	34.8527144	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	APOL4	123.6441535	1408.967023	0.087755179	-3.510372	SLAMF6	70.44111464	6.638612267	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	TARBP1	417.4027463	4789.154472	0.087155833	-3.520259	SAMD3	70.44111464	6.638612267	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	PSG1	5.808785734	66.67036389	0.087126954	-3.520737	SMCO3	17.61027866	1.659653067	0.09424343	-3.407464
IGHV3OR16-	1.100642416	0	0	-12.13092	ENSG000002	5.808785734	66.67036389	0.087126954	-3.520737	SRPK3	17.61027866	1.659653067	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	MN1	31.53340827	362.2423104	0.087050594	-3.522002	UGT2B27P	17.61027866	1.659653067	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	CUX2	16.59653067	192.2328825	0.086335545	-3.533902	MEOX1	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	LIPH	4.9789592	57.78098203	0.086169515	-3.536679	ZPBP	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	CYP2C9	2.4894796	28.89049102	0.086169515	-3.536679	HYAL4	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	TOPAZ1	2.4894796	28.89049102	0.086169515	-3.536679	ERMN	8.80513933	0.829826533	0.09424343	-3.407464

EIF3EP4	1.100642416	0	0	-12.13092	OR4Q3	2.4894796	28.89049102	0.086169515	-3.536679	LECT2	8.80513933	0.829826533	0.09424343	-3.407464
PKD1P6-NPI	1.100642416	0	0	-12.13092	ADIRF	10.78774493	125.5625187	0.085915328	-3.540941	HMGA2	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	GALNTL6	5.808785734	67.78153662	0.085698643	-3.544584	CTF1	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	TRPM8	62.23699	727.8181391	0.085511732	-3.547734	TRIM42	8.80513933	0.829826533	0.09424343	-3.407464
HNRNPA1P6	1.100642416	0	0	-12.13092	GALNT3	399.1465625	4673.592508	0.085404656	-3.549541	CCDC105	8.80513933	0.829826533	0.09424343	-3.407464
YTHDF3-DT	1.100642416	0	0	-12.13092	LRRN4CL	3.319306133	38.8910456	0.085348853	-3.550484	C1orf87	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	SYTL5	7.4684388	87.78264578	0.085078762	-3.555057	BHLHE22	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	PEBP4	4.9789592	58.89215477	0.084543675	-3.564159	OFCC1	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	OSGIN1	5.808785734	68.89270935	0.084316407	-3.568043	LDLRAD2	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	CRIM1	194.1794088	2303.461072	0.084298976	-3.568341	SHLD2P3	8.80513933	0.829826533	0.09424343	-3.407464
DDX55P1	1.100642416	0	0	-12.13092	NOXA1	24.06496947	285.571392	0.084269539	-3.568845	C18orf63	8.80513933	0.829826533	0.09424343	-3.407464
GRAMD4P8	1.100642416	0	0	-12.13092	CUBN	109.5371024	1303.405614	0.084039152	-3.572795	IL12A-AS1	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	LRIT3	12.447398	148.897146	0.083597291	-3.5804	PDLIM1P4	8.80513933	0.829826533	0.09424343	-3.407464
MTDHP1	1.100642416	0	0	-12.13092	CYP4X1	31.53340827	377.7987287	0.083466158	-3.582665	SIRLNT	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	PLP1	4.149132667	50.00277291	0.082978052	-3.591126	NKX2-2-AS1	8.80513933	0.829826533	0.09424343	-3.407464
HMGB1P51	1.100642416	0	0	-12.13092	SPATA31D1	4.149132667	50.00277291	0.082978052	-3.591126	DTX2P1-UPK	8.80513933	0.829826533	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	SOX10	3.319306133	40.00221833	0.082978052	-3.591126	PGM5P2	8.80513933	0.829826533	0.09424343	-3.407464
DPPA3P10	1.100642416	0	0	-12.13092	DQX1	3.319306133	40.00221833	0.082978052	-3.591126	REM1	26.41541799	2.4894796	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	G6PC1	1.659653067	20.00110917	0.082978052	-3.591126	ISL2	26.41541799	2.4894796	0.09424343	-3.407464
ENSG000002	1.100642416	0	0	-12.13092	KCTD19	1.659653067	20.00110917	0.082978052	-3.591126	LIMS2	256.449683	24.06496947	0.093838952	-3.413669
YWHAQP7	1.100642416	0	0	-12.13092	CRYBA4	1.659653067	20.00110917	0.082978052	-3.591126	TNFSF10	1064.321217	99.579184	0.093561213	-3.417946
IGHV3OR16-	1.100642416	0	0	-12.13092	KMT2CP4	1.659653067	20.00110917	0.082978052	-3.591126	SYNPO	2200.18419	204.9671537	0.093159089	-3.42416
ENSG000002	1.100642416	0	0	-12.13092	MLNR	0.829826533	10.00055458	0.082978052	-3.591126	POTEM	71.54175706	6.638612267	0.092793531	-3.429832
RPL21P136	1.100642416	0	0	-12.13092	CCL20	0.829826533	10.00055458	0.082978052	-3.591126	SLC1A1	205.8201318	19.08601027	0.092731503	-3.430797
PRELID3BP2	1.100642416	0	0	-12.13092	HOXB8	0.829826533	10.00055458	0.082978052	-3.591126	SBSPON	62.73661773	5.808785734	0.092590037	-3.432999
DIMT1P1	1.100642416	0	0	-12.13092	TTLL8	0.829826533	10.00055458	0.082978052	-3.591126	CSMD3	376.4197064	34.8527144	0.092590037	-3.432999
ENSG000002	1.100642416	0	0	-12.13092	FCN2	0.829826533	10.00055458	0.082978052	-3.591126	ARHGEF37	334.5952946	30.70358173	0.09176334	-3.445938
CYTH1P1	1.100642416	0	0	-12.13092	PRKACG	0.829826533	10.00055458	0.082978052	-3.591126	PMEPA1	1824.865126	166.7951332	0.091401348	-3.451641
ENSG000002	1.100642416	0	0	-12.13092	OR7G3	0.829826533	10.00055458	0.082978052	-3.591126	EPS8L1	72.64239948	6.638612267	0.091387569	-3.451858
USP6NL-AS1	1.100642416	0	0	-12.13092	CBY2	0.829826533	10.00055458	0.082978052	-3.591126	LINC01088	36.32119974	3.319306133	0.091387569	-3.451858
HTATSF1P2	1.100642416	0	0	-12.13092	OR14C36	0.829826533	10.00055458	0.082978052	-3.591126	CHI3L2	63.83726015	5.808785734	0.090993657	-3.45809
IFITM3P8	1.100642416	0	0	-12.13092	DYNAP	0.829826533	10.00055458	0.082978052	-3.591126	AASS	1210.706658	109.5371024	0.090473693	-3.466358
RPL23AP90	1.100642416	0	0	-12.13092	CYP8B1	0.829826533	10.00055458	0.082978052	-3.591126	PDPN	137.580302	12.447398	0.090473693	-3.466358
ENSG000002	1.100642416	0	0	-12.13092	OR6B2	0.829826533	10.00055458	0.082978052	-3.591126	EPHA1	27.51606041	2.4894796	0.090473693	-3.466358
CYCSP1	1.100642416	0	0	-12.13092	GALP	0.829826533	10.00055458	0.082978052	-3.591126	NEIL1	128.7751627	11.61757147	0.090215933	-3.470474
RPL17P51	1.100642416	0	0	-12.13092	AKR1B10P1	0.829826533	10.00055458	0.082978052	-3.591126	LUZP2	138.6809445	12.447398	0.089755648	-3.477853
MMP28	1.100642416	0	0	-12.13092	GRXCR1	0.829826533	10.00055458	0.082978052	-3.591126	SORCS1	46.22698148	4.149132667	0.089755648	-3.477853
CCL5	1.100642416	0	0	-12.13092	IFIT1P1	0.829826533	10.00055458	0.082978052	-3.591126	SDC2	5245.661756	470.5116444	0.089695384	-3.478822
ENSG000002	1.100642416	0	0	-12.13092	OR4A5	0.829826533	10.00055458	0.082978052	-3.591126	PCOLCE2	203.618847	18.25618373	0.089658615	-3.479414
ENSG000002	1.100642416	0	0	-12.13092	USP17L1	0.829826533	10.00055458	0.082978052	-3.591126	SPAG17	473.276239	42.3211532	0.089421673	-3.483232
BNIP3P17	1.100642416	0	0	-12.13092	CCDC192	0.829826533	10.00055458	0.082978052	-3.591126	SLC30A4	957.5589022	85.47213294	0.089260444	-3.485835
LINC02427	1.100642416	0	0	-12.13092	KMT5AP2	0.829826533	10.00055458	0.082978052	-3.591126	MIR100HG	102.3597447	9.128091867	0.089176579	-3.487191
PPIAL4E	1.100642416	0	0	-12.13092	MEIOSIN	0.829826533	10.00055458	0.082978052	-3.591126	ENSG000002	121.0706658	10.78774493	0.089102879	-3.488384
ENSG000002	1.100642416	0	0	-12.13092	KDM4F	0.829826533	10.00055458	0.082978052	-3.591126	IQUB	260.8522527	23.23514293	0.089073959	-3.488852
PSMA6P4	1.100642416	0	0	-12.13092	SMARCE1P	0.829826533	10.00055458	0.082978052	-3.591126	IGHA1	93.55460539	8.298265334	0.088699699	-3.494927
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	10.00055458	0.082978052	-3.591126	SLC51A	74.84368431	6.638612267	0.088699699	-3.494927
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	10.00055458	0.082978052	-3.591126	BMERB1	37.42184215	3.319306133	0.088699699	-3.494927
ENSG000002	1.100642416	0	0	-12.13092	MFAP4	21.57548987	260.0144192	0.082978052	-3.591126	G0S2	18.71092108	1.659653067	0.088699699	-3.494927
ENSG000002	1.100642416	0	0	-12.13092	GRAMD1B	4.9789592	60.0033275	0.082978052	-3.591126	LRRTM4	56.13276323	4.9789592	0.088699699	-3.494927
ENSG000002	1.100642416	0	0	-12.13092	PSAPL1	2.4894796	30.00166375	0.082978052	-3.591126	NPAS2	1211.8073	107.0476228	0.088337166	-3.500836
ENSG000002	1.100642416	0	0	-12.13092	5_8S_rRNA.	2.4894796	30.00166375	0.082978052	-3.591126	WIPF3	301.5760221	26.55444907	0.088052256	-3.505496
ENSG000002	1.100642416	0	0	-12.13092	CRISPLD1	98.74935747	1195.621859	0.082592466	-3.597846	RLN1	226.7323378	19.9158368	0.087838537	-3.509002
ENSG000002	1.100642416	0	0	-12.13092	JAG1	1757.572598	21300.07009	0.082514874	-3.599202	ITIH6	47.3276239	4.149132667	0.087668307	-3.511801
RN7SKP4	1.100642416	0	0	-12.13092	C7	174.263572	2120.117572	0.08219524	-3.604801	YAP1	1495.773044	131.1125923	0.087655405	-3.512013
ENSG000002	1.100642416	0	0	-12.13092	FAM47C	4.149132667	51.11394565	0.081174181	-3.622835	KIAA1755	361.0107125	31.53340827	0.087347569	-3.517089
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	4.149132667	51.11394565	0.081174181	-3.622835	SERPING1	8320.856667	726.0982167	0.087262435	-3.518495
ENSG000002	1.100642416	0	0	-12.13092	NECAB1	7.4684388	92.22733671	0.08097858	-3.626316	CIITA	608.6552562	53.10889814	0.087256123	-3.5186
ENSG000002	1.100642416	0	0	-12.13092	SLC35F3	17.4263572	215.5675099	0.080839442	-3.628797	SYNM	4891.254898	426.5308382	0.087202742	-3.519483
MIR98	1.100642416	0	0	-12.13092	RFPL4A	3.319306133	41.11339106	0.080735401	-3.630655	CYP27A1	143.0835141	12.447398	0.086993936	-3.522941
JARID2-DT	1.100642416	0	0	-12.13092	CPXM2	29.8737552	370.0205196	0.080735401	-3.630655	LIF	57.23340565	4.9789592	0.086993936	-3.522941
ENSG000002	1.100642416	0	0	-12.13092	THRB	43.98080627	546.6969839	0.080448233	-3.635795	LAX1	28.61670282	2.4894796	0.086993936	-3.522941
ENSG000002	1.100642416	0	0	-12.13092	IDO1	4.9789592	62.22567296	0.08001455	-3.643594	ADAMTSL3	28.61670282	2.4894796	0.086993936	-3.522941
LINC02973	1.100642416	0	0	-12.13092	FRMPD4	4.9789592	62.22567296	0.08001455	-3.643594	FCGR1CP	28.61670282	2.4894796	0.086993936	-3.522941
ENSG000002	1.100642416	0	0	-12.13092	TSKS	2.4894796	31.11283648	0.08001455	-3.643594	C17orf107	210.2227015	18.25618373	0.086842114	-3.525461
ENSG000002	1.100642416	0	0	-12.13092	ATP1A4	2.4894796	31.11283648	0.08001455	-3.643594	GBP2	1643.259128	141.9003372	0.086352989	-3.53361
RNU6-87P	1.100642416	0	0	-12.13092	TEX29	2.4894796	31.11283648	0.08001455	-3.643594	PI15	807.8715336	69.7054288	0.086282813	-3.534783
ENSG000002	1.100642416	0	0	-12.13092	FCRL3	2.4894796	31.11283648	0.08001455	-3.643594	POTEH-AS1	38.52248457	3.319306133	0.086165422	-3.536747
ENSG000002	1.100642416	0	0	-12.13092	RFPL1S	2.4894796	31.11283648	0.08001455	-3.643594	INMT	38.52248457	3.319306133	0.086165422	-3.536747
ENSG000002	1.100642416	0	0	-12.13092	GASK1A	9.128091867	114.4507913	0.079755603	-3.64827	SRD5A2	38.52248457	3.319306133	0.086165422	-3.536747
ENSG000002	1.100642416	0	0	-12.13092	ANO2	40.66150013	513.3618019	0.079206322	-3.658241	FGF13	299.3747372	25.72462253	0.085927833	-3.540731
ENSG000002	1.100642416	0	0	-12.13092	PCDHGA7	50.61941854	643.3690115	0.078678671	-3.667884	SHISA6	330.1927249	28.21410213	0.085447377	-3.54882
ENSG000002	1.100642416	0	0	-12.13092	PPM1J	8.298265334	105.5614095	0.078610786	-3.669129	SLC26A4	233.3361923	19.9158368	0.085352541	-3.550422
MAP7-AS1	1.100642416	0	0	-12.13092	CA14	3.319306133	42.22456379	0.078610786	-3.669129	MOV10L1	116.6680961	9.9579184	0.085352541	-3.550422
ENSG000002	1.100642416	0	0	-12.13092	TULP2	1.659653067	21.1122819	0.078610786	-3.669129	BOC	1032.402586	87.96161254	0.085200884	-3.552988
ENSG000002	1.100642416	0	0	-12.13092	FTCD	1.659653067	21.1122819	0.078610786	-3.669129	RELB	176.1027866	14.9368776	0.084819087	-3.559467
ENSG000002	1.100642416	0	0	-12.13092	OR2K2	1.659653067	21.1122819	0.078610786	-3.669129	JPH2	186.0085684	15.76670413	0.084763322	-3.560416
ENSG000002	1.100642416	0	0	-12.13092	WDR73	1.659653067	21.1122819	0.078610786	-3.669129	COL17A1	137.580302	11.61757147	0.084442113	-3.565894
ENSG000002	1.100642416	0	0	-12.13092	ACTL9	1.659653067	21.1122819	0.078610786	-3.669129	EEF1B2	483.1820208	40.66150013	0.084153587	-3.570831
LINC00551	1.100642416	0	0	-12.13092	AWAT1	1.659653067	21.1122819	0.078610786	-3.669129	WASH4P	49.52890873	4.149132667	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	21.1122819	0.078610786	-3.669129	TPSD1	29.71734524	2.4894796	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	NACA2	1.659653067	21.1122819	0.078610786	-3.669129	YES1P1	69.34047223	5.808785734	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	DNAAF3-AS	1.659653067	21.1122819	0.078610786	-3.669129	AGTR1	79.24625397	6.638612267	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	MIR6720	1.659653067	21.1122819	0.078610786	-3.669129	ENSG000002	79.24625397	6.638612267	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	21.1122819	0.078610786	-3.669129	GOLGA6L5P	19.81156349	1.659653067	0.083771938	-3.577389
ZNF454-DT	1.100642416	0	0	-12.13092	TENM2	26.55444907	338.9076831	0.078353045	-3.673867	TNFRSF17	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	RELB	14.9368776	191.1217098	0.078153746	-3.677541	NAALAD2	9.905781747	0.829826533	0.083771938	-3.577389
FAM193B-DT	1.100642416	0	0	-12.13092	SNAP91	6.638612267	85.56030032	0.077589866	-3.687988	MLNR	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	CLEC10A	2.4894796	32.22400921	0.077255427	-3.69422	AKAP4	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	AGAP7P	2.4894796	32.22400921	0.077255427	-3.69422	FAM86GP	9.905781747	0.829826533	0.083771938	-3.577389
LINC02538	1.100642416	0	0	-12.13092	F10	5.808785734	75.55974574	0.076876724	-3.701309	ZNF35	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	SH3TC2	5.808785734	75.55974574	0.076876724	-3.701309	LMOD2	9.905781747	0.829826533	0.083771938	-3.577389
FAM131B-AS	1.100642416	0	0	-12.13092	MLPH	140.2406841	1827.879143	0.076723171	-3.704194	PGK2	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	WNT5B	13.27722453	173.3429461	0.076595124	-3.706604	C5orf46	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	PDZK1IP1	3.319306133	43.33573653	0.076595124	-3.706604	DDX53	9.905781747	0.829826533	0.083771938	-3.577389
MESTIT1	1.100642416	0	0	-12.13092	ZNF556	3.319306133	43.33573653	0.076595124	-3.706604	TRIM64B	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	KLHL35	4.149132667	54.44746384	0.076204333	-3.713983	C1orf185	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	ADGRG6	123.6441535	1641.202124	0.075337554	-3.730487	RNF152P1	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	PSD4	101.2388371	1345.630178	0.075235261	-3.732447	OR4A8	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	PEG3	17.4263572	232.2351009	0.075037568	-3.736243	ORM2	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	RORB	43.15097974	576.6986476	0.074824139	-3.740352	ENSG000002	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	EPN3	24.894796	333.3518194	0.074680246	-3.74313	TAS2R39	9.905781747	0.829826533	0.083771938	-3.577389

ENSG000002	1.100642416	0	0	-12.13092	KRT9	4.149132667	55.55863657	0.074680246	-3.74313	ENSG000002	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	TRIM54	2.4894796	33.33518194	0.074680246	-3.74313	ENSG000002	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	KRT1	2.4894796	33.33518194	0.074680246	-3.74313	LINC02605	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	IGSF22	2.4894796	33.33518194	0.074680246	-3.74313	ENSG000002	9.905781747	0.829826533	0.083771938	-3.577389
ENSG000002	1.100642416	0	0	-12.13092	GREP1	2.4894796	33.33518194	0.074680246	-3.74313	RGS11	269.657392	22.4053164	0.083088085	-3.589215
ENSG000002	1.100642416	0	0	-12.13092	PAX3	3.319306133	44.44690926	0.074680246	-3.74313	ZYX	129.8758051	10.78774493	0.083062006	-3.589667
OR10Q2P	1.100642416	0	0	-12.13092	SLC10A1	1.659653067	22.22345463	0.074680246	-3.74313	CCL2	740.7323462	61.40716347	0.08290061	-3.592473
ENSG000002	1.100642416	0	0	-12.13092	GPRC5D	1.659653067	22.22345463	0.074680246	-3.74313	TRIM29	561.3276323	46.47028587	0.082786386	-3.594463
ENSG000002	1.100642416	0	0	-12.13092	PANX3	1.659653067	22.22345463	0.074680246	-3.74313	SP8	90.25267814	7.4684388	0.082750329	-3.595091
TRIM8-DT	1.100642416	0	0	-12.13092	KCNJ4	1.659653067	22.22345463	0.074680246	-3.74313	KLF13	90.25267814	7.4684388	0.082750329	-3.595091
ENSG000002	1.100642416	0	0	-12.13092	KLHL30	1.659653067	22.22345463	0.074680246	-3.74313	TMC8	80.34689639	6.638612267	0.082624377	-3.597289
ENSG000002	1.100642416	0	0	-12.13092	FSD2	1.659653067	22.22345463	0.074680246	-3.74313	EFEMP1	2219.995754	183.3916639	0.082609016	-3.597557
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	22.22345463	0.074680246	-3.74313	UBA7	422.6466879	34.8527144	0.082463001	-3.600109
ENSG000002	1.100642416	0	0	-12.13092	GASK1B-AS	1.659653067	22.22345463	0.074680246	-3.74313	PLAAT4	130.9764475	10.78774493	0.082364006	-3.601842
ENSG000002	1.100642416	0	0	-12.13092	PRODH2	1.659653067	22.22345463	0.074680246	-3.74313	VWA5A	354.406858	29.04392867	0.081950809	-3.609098
ENSG000002	1.100642416	0	0	-12.13092	UGT2B27P	1.659653067	22.22345463	0.074680246	-3.74313	PRKN	50.62955115	4.149132667	0.081950809	-3.609098
ENSG000002	1.100642416	0	0	-12.13092	MIR499B	1.659653067	22.22345463	0.074680246	-3.74313	PLA2G4A	375.319064	30.70358173	0.081806614	-3.611639
ENSG000002	1.100642416	0	0	-12.13092	VGLL1	0.829826533	11.11172731	0.074680246	-3.74313	LDOC1	91.35332055	7.4684388	0.081753337	-3.612579
ENSG000002	1.100642416	0	0	-12.13092	PDE4C	0.829826533	11.11172731	0.074680246	-3.74313	FBLN5	1241.524646	101.2388371	0.081543961	-3.616278
PPM1B-DT	1.100642416	0	0	-12.13092	KRT32	0.829826533	11.11172731	0.074680246	-3.74313	FAM120B	81.44753881	6.638612267	0.081507831	-3.616918
ENSG000002	1.100642416	0	0	-12.13092	PLA2G2D	0.829826533	11.11172731	0.074680246	-3.74313	MUC13	40.7237694	3.319306133	0.081507831	-3.616918
ENSG000002	1.100642416	0	0	-12.13092	SEMG1	0.829826533	11.11172731	0.074680246	-3.74313	PDLIM3	2048.295537	166.7951332	0.081431185	-3.618275
PACERR	1.100642416	0	0	-12.13092	ACMSD	0.829826533	11.11172731	0.074680246	-3.74313	GRHL3	92.45396297	7.4684388	0.080780083	-3.629857
ENSG000002	1.100642416	0	0	-12.13092	TMED6	0.829826533	11.11172731	0.074680246	-3.74313	KRT14	30.81798766	2.4894796	0.080780083	-3.629857
ENSG000002	1.100642416	0	0	-12.13092	OR5B12	0.829826533	11.11172731	0.074680246	-3.74313	GATA2-AS1	30.81798766	2.4894796	0.080780083	-3.629857
ENSG000002	1.100642416	0	0	-12.13092	FAM187B	0.829826533	11.11172731	0.074680246	-3.74313	HMGCS2	82.54818122	6.638612267	0.08042106	-3.636283
ENSG000002	1.100642416	0	0	-12.13092	PRSS57	0.829826533	11.11172731	0.074680246	-3.74313	SFRP2	2188.077124	175.0933985	0.080021585	-3.643467
ENSG000002	1.100642416	0	0	-12.13092	TMPRSS11B	0.829826533	11.11172731	0.074680246	-3.74313	SEL1L3	705.5117888	56.42820427	0.079981944	-3.644182
ENSG000002	1.100642416	0	0	-12.13092	KRTAP26-1	0.829826533	11.11172731	0.074680246	-3.74313	VILL	83.64882364	6.638612267	0.079362889	-3.655392
ENSG000002	1.100642416	0	0	-12.13092	RNF152P1	0.829826533	11.11172731	0.074680246	-3.74313	FAM162B	41.82441182	3.319306133	0.079362889	-3.655392
ENSG000002	1.100642416	0	0	-12.13092	IGKV1D-43	0.829826533	11.11172731	0.074680246	-3.74313	CFI	41.82441182	3.319306133	0.079362889	-3.655392
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	11.11172731	0.074680246	-3.74313	TTC23-AS1	20.91220591	1.659653067	0.079362889	-3.655392
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	11.11172731	0.074680246	-3.74313	ENSG000002	104.5610295	8.298265334	0.079362889	-3.655392
ENSG000002	1.100642416	0	0	-12.13092	AIDAP2	0.829826533	11.11172731	0.074680246	-3.74313	CSTF2T	514.0000084	40.66150013	0.079107976	-3.660033
ENSG000002	1.100642416	0	0	-12.13092	GRM5-AS1	0.829826533	11.11172731	0.074680246	-3.74313	DACT3	221.2291257	17.4263572	0.078770628	-3.666198
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	11.11172731	0.074680246	-3.74313	LRP1B	285.0663858	22.4053164	0.078596837	-3.669385
LINC02928	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	11.11172731	0.074680246	-3.74313	ELMO3	105.661672	8.298265334	0.078536192	-3.670499
ENSG000002	1.100642416	0	0	-12.13092	KLF14	0.829826533	11.11172731	0.074680246	-3.74313	OR51T1	52.83083598	4.149132667	0.078536192	-3.670499
LINC03060	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	11.11172731	0.074680246	-3.74313	ANKRD35	52.83083598	4.149132667	0.078536192	-3.670499
ENSG000002	1.100642416	0	0	-12.13092	DNAH9	38.17202053	512.2506292	0.07451825	-3.746262	PLEKHS1	605.353329	47.3001124	0.078136371	-3.677862
ENSG000002	1.100642416	0	0	-12.13092	COL27A1	91.28091867	1227.845868	0.074342327	-3.749672	IL1R1	7904.813834	616.5611143	0.077998183	-3.680416
ENSG000002	1.100642416	0	0	-12.13092	TBX3	347.6973175	4730.262318	0.07350487	-3.766016	ACKR2	31.91863007	2.4894796	0.077994563	-3.680483
ENSG000002	1.100642416	0	0	-12.13092	SLC9A3	9.128091867	124.4513459	0.073346671	-3.769125	ENSG000002	31.91863007	2.4894796	0.077994563	-3.680483
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	5.808785734	80.00443666	0.072605795	-3.783771	EFNB2	2315.751644	180.0723577	0.077759788	-3.684832
LINC01396	1.100642416	0	0	-12.13092	STAG3	4.9789592	68.89270935	0.072271206	-3.790435	CLIP4	716.518213	55.59837774	0.077595205	-3.687889
ENSG000002	1.100642416	0	0	-12.13092	KCNK15	2.4894796	34.44635467	0.072271206	-3.790435	MRGPRF	128.7751627	9.9579184	0.077327943	-3.692866
LINC02712	1.100642416	0	0	-12.13092	HMGN2P46	2.4894796	34.44635467	0.072271206	-3.790435	FILIP1L	5641.893026	435.65893	0.077218573	-3.694908
ENSG000002	1.100642416	0	0	-12.13092	TBC1D19	21.57548987	303.3501557	0.071124044	-3.813519	SALL4	355.5075005	27.3842756	0.077028686	-3.69846
ENSG000002	1.100642416	0	0	-12.13092	PPEF2	3.319306133	46.66925472	0.071124044	-3.813519	CCR5	107.8629568	8.298265334	0.076933412	-3.700246
ENSG000002	1.100642416	0	0	-12.13092	HSD17B2	1.659653067	23.33462736	0.071124044	-3.813519	TNFSF15	377.5203488	29.04392867	0.076933412	-3.700246
ENSG000002	1.100642416	0	0	-12.13092	ADCY4	1.659653067	23.33462736	0.071124044	-3.813519	PPP1R3C	183.8072835	14.10705107	0.076749141	-3.703706
ENSG000002	1.100642416	0	0	-12.13092	GLOD5	1.659653067	23.33462736	0.071124044	-3.813519	SLFN12L	129.8758051	9.9579184	0.076672621	-3.705145
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	23.33462736	0.071124044	-3.813519	AOX1	281.7644586	21.57548987	0.076572787	-3.707024
ENSG000002	1.100642416	0	0	-12.13092	CLEC1A	4.9789592	70.00388208	0.071124044	-3.813519	CCDC80	2127.541791	162.6460005	0.076447852	-3.70938
ENSG000002	1.100642416	0	0	-12.13092	SEMA3B	29.04392867	410.0227379	0.070834922	-3.819395	CCR2	108.9635992	8.298265334	0.076156307	-3.714893
MIR6129	1.100642416	0	0	-12.13092	PCDH19	108.7072759	1543.418924	0.070432774	-3.827609	TAGLN	2517.169206	191.6899292	0.076152977	-3.714956
ENSG000002	1.100642416	0	0	-12.13092	JAM2	48.95976547	696.7053026	0.070273278	-3.83088	MLPH	1850.179902	140.2406841	0.075798404	-3.721689
Metazoa_SRP	1.100642416	0	0	-12.13092	DMGDH	4.9789592	71.11505481	0.070012731	-3.836239	EPN3	330.1927249	24.894796	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	ARSH	2.4894796	35.55752741	0.070012731	-3.836239	HHIP	220.1284833	16.59653067	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	IGSF10	48.12993894	691.149439	0.069637529	-3.843991	PARP15	99.05781747	7.4684388	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	AQP3	9.9579184	143.3412824	0.069469997	-3.847466	IL33	66.03854498	4.9789592	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	UNC5D	16.59653067	238.9021373	0.069469997	-3.847466	CD1C	66.03854498	4.9789592	0.075394744	-3.729392
MIR6792	1.100642416	0	0	-12.13092	LCNL1	3.319306133	47.78042745	0.069469997	-3.847466	DKK1	22.01284833	1.659653067	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	ST8SIA1	14.10705107	203.3446099	0.069375092	-3.849438	OCM	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	MDGA1	38.17202053	552.2528475	0.06912055	-3.854741	CTIF	11.00642416	0.829826533	0.075394744	-3.729392
BLVRBP1	1.100642416	0	0	-12.13092	TMEM129	43.98080627	640.0354933	0.068716199	-3.863206	PRSS35	11.00642416	0.829826533	0.075394744	-3.729392
MIR6760	1.100642416	0	0	-12.13092	ECEL1	204.1373272	2980.165266	0.06849866	-3.86778	GPR15	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	LPAR3	21.57548987	316.6842285	0.068129348	-3.87558	SERPINF2	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	RAB41	3.319306133	48.89160018	0.067891133	-3.880633	OR10K2	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	FOXD2	13.27722453	195.5664007	0.067891133	-3.880633	TMPRSS11B	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC5A5	4.149132667	61.11450023	0.067891133	-3.880633	TRAJ46	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	CHRM1	4.149132667	61.11450023	0.067891133	-3.880633	MTAPP2	11.00642416	0.829826533	0.075394744	-3.729392
Metazoa_SRP	1.100642416	0	0	-12.13092	SPATA31B1	2.4894796	36.66870014	0.067891133	-3.880633	LIMD1-AS1	11.00642416	0.829826533	0.075394744	-3.729392
SLC25A15P4	1.100642416	0	0	-12.13092	KLHL38	1.659653067	24.44580009	0.067891133	-3.880633	IGKV1D-43	11.00642416	0.829826533	0.075394744	-3.729392
Y_RNA.128	1.100642416	0	0	-12.13092	SLC25A18	1.659653067	24.44580009	0.067891133	-3.880633	ENSG000002	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	TEX38	1.659653067	24.44580009	0.067891133	-3.880633	LINC00624	11.00642416	0.829826533	0.075394744	-3.729392
Metazoa_SRP	1.100642416	0	0	-12.13092	CLEC2A	1.659653067	24.44580009	0.067891133	-3.880633	ENSG000002	11.00642416	0.829826533	0.075394744	-3.729392
ENSG000002	1.100642416	0	0	-12.13092	HSD3B1	1.659653067	24.44580009	0.067891133	-3.880633	ENSG000002	11.00642416	0.829826533	0.075394744	-3.729392
RBM17P2	1.100642416	0	0	-12.13092	CACNG3	0.829826533	12.22290005	0.067891133	-3.880633	RYR2	2730.693835	205.7969803	0.075364355	-3.729974
ENSG000002	1.100642416	0	0	-12.13092	NANOG	0.829826533	12.22290005	0.067891133	-3.880633	CRYAB	518.4025781	39.00184707	0.07523467	-3.732459
ENSG000002	1.100642416	0	0	-12.13092	PRAMEF12	0.829826533	12.22290005	0.067891133	-3.880633	HOXA3	354.406858	26.55444907	0.074926454	-3.738381
MIR6507	1.100642416	0	0	-12.13092	PRB2	0.829826533	12.22290005	0.067891133	-3.880633	COL4A3	343.4004339	25.72462253	0.074911444	-3.73867
ENSG000002	1.100642416	0	0	-12.13092	MC3R	0.829826533	12.22290005	0.067891133	-3.880633	SP140	166.1970049	12.447398	0.074895441	-3.738978
ENSG000002	1.100642416	0	0	-12.13092	LECT2	0.829826533	12.22290005	0.067891133	-3.880633	PRSS12	133.1777324	9.9579184	0.074771647	-3.741365
MIR6081	1.100642416	0	0	-12.13092	PRSS35	0.829826533	12.22290005	0.067891133	-3.880633	PRDM8	111.164884	8.298265334	0.074648261	-3.743748
Y_RNA.129	1.100642416	0	0	-12.13092	C4orf36	0.829826533	12.22290005	0.067891133	-3.880633	ADAMTS3	178.3040714	13.27722453	0.074463945	-3.747314
ENSG000002	1.100642416	0	0	-12.13092	C16orf92	0.829826533	12.22290005	0.067891133	-3.880633	PNPLA7	704.4111464	52.2790716	0.074216701	-3.752112
ENSG000002	1.100642416	0	0	-12.13092	TM4SF4	0.829826533	12.22290005	0.067891133	-3.880633	GBP5	279.5631737	20.74566333	0.074207425	-3.752293
ENSG000002	1.100642416	0	0	-12.13092	CCR9	0.829826533	12.22290005	0.067891133	-3.880633	UTY	2589.811606	191.6899292	0.07401694	-3.756001
MIR6864	1.100642416	0	0	-12.13092	LRRC55	0.829826533	12.22290005	0.067891133	-3.880633	CD48	112.2655265	8.298265334	0.073916416	-3.757961
ENSG000002	1.100642416	0	0	-12.13092	TRAV8-2	0.829826533	12.22290005	0.067891133	-3.880633	VSIG2	90.25267814	6.638612267	0.073555848	-3.765016
ENSG000002	1.100642416	0	0	-12.13092	KRTAP10-9	0.829826533	12.22290005	0.067891133	-3.880633	ALDH1L1	79.24625397	5.808785734	0.073300446	-3.770034
ENSG000002	1.100642416	0	0	-12.13092	TRIM53AP	0.829826533	12.22290005	0.067891133	-3.880633	GABRE	329.0920825	24.06496947	0.073125337	-3.773485
ENSG000002	1.100642416	0	0	-12.13092	R3HDML-AS	0.829826533	12.22290005	0.067891133	-3.880633	EFS	238.8394043	17.4263572	0.072962656	-3.776698
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	12.22290005	0.067891133	-3.880633	THBS4	742.933631	53.93872467	0.072602346	-3.78384
ENSG000002	1.100642416	0	0	-12.13092	ANKRD11P1	0.829826533	12.22290005	0.067891133	-3.880633	ST8SIA1	194.8137077	14.10705107	0.072413031	-3.787607
ENSG000002	1.100642416	0	0	-12.13092	LIX1-AS1	0.829826533	12.22290005	0.067891133	-3.880633	EGF	115.5674537	8.298265334	0.071804518	-3.799782
FAM74A4	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	12.22290005	0.067891133	-3.880633	CD8B	69.34047223	4.9789592	0.071804518	-3.799782
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	12.22290005	0.067891133	-3.880633	ZBP1	46.22698148	3.319306133	0.071804518	-3.799782
MIR6867	1.100642416	0	0	-12.13092	PLTP	106.2177963	1577.865279	0.067317405	-3.892877	FBXL22	46.22698148	3.319306133	0.071804518	-3.799782
ENSG000002	1.100642416	0	0	-12.13092	DMD	215.7548987	3209.066848	0.067232909	-3.894689	SERPINA11	23.11349074	1.659653067	0.071804518	-3.799782

ENSG000002	1.100642416	0	0	-12.13092	NOS1	26.55444907	397.7998379	0.066753293	-3.905017	THSD4	1900.809453	136.0915515	0.07159663	-3.803965
ENSG000002	1.100642416	0	0	-12.13092	IRF7	4.149132667	62.22567296	0.066678791	-3.906628	ENPP3	104.5610295	7.4684388	0.0714266	-3.807395
ENSG000002	1.100642416	0	0	-12.13092	LDHD	8.298265334	124.4513459	0.066678791	-3.906628	ENSG000002	81.44753881	5.808785734	0.071319353	-3.809563
Metazoa_SRP	1.100642416	0	0	-12.13092	CD177	43.98080627	660.0366025	0.06663389	-3.9076	COL27A1	1280.04713	91.28091867	0.071310592	-3.80974
NPHP3-ACAI	1.100642416	0	0	-12.13092	TEKTIP1	8.298265334	125.5625187	0.066088714	-3.919452	EGFR	3836.839463	273.0129295	0.071155682	-3.812877
ENSG000002	1.100642416	0	0	-12.13092	MYO1H	4.9789592	75.55974574	0.065894335	-3.923702	TTC22	116.6680961	8.298265334	0.071127117	-3.813457
ENSG000002	1.100642416	0	0	-12.13092	CCDC85A	2.4894796	37.77987287	0.065894335	-3.923702	AJUBA	175.0021442	12.447398	0.071127117	-3.813457
ENSG000002	1.100642416	0	0	-12.13092	ACSM4	2.4894796	37.77987287	0.065894335	-3.923702	MFAP2	128.7751627	9.128091867	0.070883947	-3.818397
ENSG000002	1.100642416	0	0	-12.13092	ANTXR2	99.579184	1516.750778	0.065652964	-3.928996	TNC	5445.978676	385.869338	0.070853994	-3.819007
ENSG000002	1.100642416	0	0	-12.13092	C2CD4A	4.149132667	63.33684569	0.065508988	-3.932163	RORB	609.7558986	43.15097974	0.07076763	-3.820767
KRT89P	1.100642416	0	0	-12.13092	THEG5	4.149132667	63.33684569	0.065508988	-3.932163	SCML4	35.22055732	2.4894796	0.070682573	-3.822502
ENSG000002	1.100642416	0	0	-12.13092	PGM5	17.4263572	266.6814555	0.065345216	-3.935775	SLC5A4-AS1	35.22055732	2.4894796	0.070682573	-3.822502
MIR8083	1.100642416	0	0	-12.13092	ATP8A1	400.8062156	6164.786314	0.065015427	-3.943074	MTARC2	460.06853	32.3632348	0.070344378	-3.829421
RN7SL600P	1.100642416	0	0	-12.13092	SLC6A12	11.61757147	178.8988098	0.064939345	-3.944763	TBC1D19	307.0792341	21.57548987	0.070260335	-3.831146
Y_RNA.131	1.100642416	0	0	-12.13092	ALLC	9.9579184	153.3418369	0.064939345	-3.944763	SLC5A1	177.203429	12.447398	0.07024355	-3.83149
RN7SL166P	1.100642416	0	0	-12.13092	GSTM5	3.319306133	51.11394565	0.064939345	-3.944763	CSDC2	47.3276239	3.319306133	0.070134646	-3.833729
ENSG000002	1.100642416	0	0	-12.13092	NTN5	3.319306133	51.11394565	0.064939345	-3.944763	BATF	24.21413316	1.659653067	0.068540676	-3.866896
CCL16	1.100642416	0	0	-12.13092	HSD11B1	1.659653067	25.55697282	0.064939345	-3.944763	RAB11B-AS1	24.21413316	1.659653067	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	POM121L2	1.659653067	25.55697282	0.064939345	-3.944763	CYP4A22	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	CYP2A7	1.659653067	25.55697282	0.064939345	-3.944763	FCRL4	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	DCAF8L1	1.659653067	25.55697282	0.064939345	-3.944763	GJC3	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	OR8S1	1.659653067	25.55697282	0.064939345	-3.944763	IMPDH2	12.10706658	0.829826533	0.068540676	-3.866896
MIR6124	1.100642416	0	0	-12.13092	NALCN	12.447398	192.2328825	0.064751659	-3.948939	HLA-DRA	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	SLC26A1	5.808785734	90.00499125	0.064538485	-3.953696	SERPINB4	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	SLC22A3	12.447398	193.3440553	0.064379523	-3.957254	TRAV41	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	SLC7A2	210.7759395	3285.737767	0.064148741	-3.962435	SETP21	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	EVX1	2.4894796	38.8910456	0.06401164	-3.965522	ENSG000002	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	NKX6-1	7.4684388	116.6731368	0.06401164	-3.965522	IFNA14	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	PLIN5	7.4684388	116.6731368	0.06401164	-3.965522	HOTTIP	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	SMO	41.49132667	651.1472206	0.063720347	-3.972102	ERVFRD-1	12.10706658	0.829826533	0.068540676	-3.866896
MIR6809	1.100642416	0	0	-12.13092	SLC9A4	3.319306133	52.22511838	0.063557656	-3.97579	ENSG000002	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	AGBL1	4.149132667	65.55919115	0.063288344	-3.981916	ENSG000002	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	RGS11	22.4053164	355.5752741	0.063011458	-3.988242	ENSG000002	12.10706658	0.829826533	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	GRID2	11.61757147	184.4546734	0.06298334	-3.988886	LINC00930	36.32119974	2.4894796	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	TMEM178A	22.4053164	357.7976195	0.062620082	-3.997231	ZNF728	36.32119974	2.4894796	0.068540676	-3.866896
ENSG000002	1.100642416	0	0	-12.13092	SEMA4A	25.72462253	411.1339106	0.062569936	-3.998387	BLNK	438.0556817	29.8737552	0.068196251	-3.874164
ANAPC1P5	1.100642416	0	0	-12.13092	ENTPD5	270.5234499	4334.684825	0.062409024	-4.002102	IGHG4	122.1713082	8.298265334	0.067923193	-3.879952
ENSG000002	1.100642416	0	0	-12.13092	ENDOU	3.319306133	53.33629111	0.062233539	-4.006164	RBPMS	1661.970049	112.8564085	0.0679052	-3.880334
ENSG000002	1.100642416	0	0	-12.13092	CYP1A2	1.659653067	26.66814555	0.062233539	-4.006164	UNC5C	171.7002169	11.61757147	0.06766195	-3.885511
ENSG000002	1.100642416	0	0	-12.13092	OR10G3	1.659653067	26.66814555	0.062233539	-4.006164	B3GNT6	61.63597531	4.149132667	0.067316736	-3.892891
ENSG000002	1.100642416	0	0	-12.13092	ACKR1	1.659653067	26.66814555	0.062233539	-4.006164	AGBL1	61.63597531	4.149132667	0.067316736	-3.892891
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	26.66814555	0.062233539	-4.006164	CD44	3605.704556	242.3093477	0.067201664	-3.895359
YAP1P3	1.100642416	0	0	-12.13092	NKG7	0.829826533	13.33407278	0.062233539	-4.006164	HMCN1	5151.006508	345.2078379	0.06701755	-3.899317
STMN1P1	1.100642416	0	0	-12.13092	ANKRD61	0.829826533	13.33407278	0.062233539	-4.006164	SLC27A6	148.5867262	9.9579184	0.06701755	-3.899317
ENSG000002	1.100642416	0	0	-12.13092	UGT2A1	0.829826533	13.33407278	0.062233539	-4.006164	NEXN	805.6702487	53.93872467	0.066948885	-3.900796
ENSG000002	1.100642416	0	0	-12.13092	OR4B1	0.829826533	13.33407278	0.062233539	-4.006164	FCRL3	37.42184215	2.4894796	0.066524774	-3.909964
ENSG000002	1.100642416	0	0	-12.13092	ZNF683	0.829826533	13.33407278	0.062233539	-4.006164	DACT2	37.42184215	2.4894796	0.066524774	-3.909964
ENSG000002	1.100642416	0	0	-12.13092	CLEC9A	0.829826533	13.33407278	0.062233539	-4.006164	UBAP1L	88.0513933	5.808785734	0.065970401	-3.922037
RBBP4P3	1.100642416	0	0	-12.13092	CATIP-AS1	0.829826533	13.33407278	0.062233539	-4.006164	NMNAT3	113.3661689	7.4684388	0.065878903	-3.92404
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	13.33407278	0.062233539	-4.006164	CDK6	1084.13278	71.36508187	0.065826883	-3.925179
ENSG000002	1.100642416	0	0	-12.13092	SNRPA1-DT	0.829826533	13.33407278	0.062233539	-4.006164	FOXN1	25.31477557	1.659653067	0.065560647	-3.931026
LINC03025.1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	13.33407278	0.062233539	-4.006164	TIMD4	25.31477557	1.659653067	0.065560647	-3.931026
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	13.33407278	0.062233539	-4.006164	TIGIT	25.31477557	1.659653067	0.065560647	-3.931026
ENSG000002	1.100642416	0	0	-12.13092	SLC16A12	14.10705107	226.6792372	0.062233539	-4.006164	LINC02984	228.9336226	14.9368776	0.065245452	-3.937979
ENSG000002	1.100642416	0	0	-12.13092	SLC15A1	2.4894796	40.00221833	0.062233539	-4.006164	HOXD13	114.4668113	7.4684388	0.065245452	-3.937979
IGKV1D-13	1.100642416	0	0	-12.13092	FAIM2	2.4894796	40.00221833	0.062233539	-4.006164	STAMBPL1	89.15203572	5.808785734	0.065155952	-3.939959
ENSG000002	1.100642416	0	0	-12.13092	NODAL	2.4894796	40.00221833	0.062233539	-4.006164	TPM2	1796.248423	117.0055412	0.065138841	-3.940338
MRPL30P1	1.100642416	0	0	-12.13092	POU5F1B	2.4894796	40.00221833	0.062233539	-4.006164	IGF1	242.1413316	15.76670413	0.065113643	-3.940896
SPATA31A5	1.100642416	0	0	-12.13092	SLC5A1	12.447398	201.1222644	0.061889707	-4.014157	SLC38A11	192.6124229	12.447398	0.064624066	-3.951785
ENSG000002	1.100642416	0	0	-12.13092	GMNC	9.9579184	162.2312188	0.061381024	-4.026063	CLEC10A	38.52248457	2.4894796	0.064624066	-3.951785
ENSG000002	1.100642416	0	0	-12.13092	GOLT1A	4.149132667	67.78153662	0.061213317	-4.030011	SOX10	51.73019357	3.319306133	0.06416574	-3.962053
RN7SL856P	1.100642416	0	0	-12.13092	C17orf107	18.25618373	300.0166375	0.060850571	-4.038585	BHLHE41	336.7965794	21.57548987	0.064060894	-3.964412
ENSG000002	1.100642416	0	0	-12.13092	IDUA	78.83352067	1301.183269	0.060586024	-4.044871	MINAR1	233.3361923	14.9368776	0.064014405	-3.96546
ENSG000002	1.100642416	0	0	-12.13092	DCP1B	12.447398	205.5669553	0.060551551	-4.045692	ADAMTS8	78.14561156	4.9789592	0.063713868	-3.972249
ENSG000002	1.100642416	0	0	-12.13092	SLC12A3	2.4894796	41.11339106	0.060551551	-4.045692	MAP3K19	78.14561156	4.9789592	0.063713868	-3.972249
ENSG000002	1.100642416	0	0	-12.13092	NRIP3	68.04577574	1128.951495	0.060273427	-4.052334	NAALADL2	1134.762331	72.1949084	0.063621171	-3.974349
ENSG000002	1.100642416	0	0	-12.13092	ERBB2	364.2938481	6058.113732	0.060133214	-4.055694	TMEM200A	195.9143501	12.447398	0.063534897	-3.976307
5S_rRNA	1.100642416	0	0	-12.13092	BDNF	3.319306133	55.55863657	0.059744197	-4.065058	ENTREP1	472.1755966	29.8737552	0.063268317	-3.982373
TRBV12-4	1.100642416	0	0	-12.13092	SLC16A8	1.659653067	27.77931829	0.059744197	-4.065058	ENSG000002	118.869381	7.4684388	0.062828953	-3.992427
SUNO1	1.100642416	0	0	-12.13092	OR7C2	1.659653067	27.77931829	0.059744197	-4.065058	VEPH1	198.1156349	12.447398	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	GARIN1B	1.659653067	27.77931829	0.059744197	-4.065058	SDHB	52.83083598	3.319306133	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	HSPB8	1.659653067	27.77931829	0.059744197	-4.065058	ART4	39.62312699	2.4894796	0.062828953	-3.992427
PMS2P14	1.100642416	0	0	-12.13092	OR1M1	1.659653067	27.77931829	0.059744197	-4.065058	SOX15	39.62312699	2.4894796	0.062828953	-3.992427
TOMM40P1	1.100642416	0	0	-12.13092	SHISA3	1.659653067	27.77931829	0.059744197	-4.065058	CERS3	39.62312699	2.4894796	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	TIGIT	1.659653067	27.77931829	0.059744197	-4.065058	CCL20	13.207709	0.829826533	0.062828953	-3.992427
CCDC92B	1.100642416	0	0	-12.13092	CDHR4	1.659653067	27.77931829	0.059744197	-4.065058	PKIB	13.207709	0.829826533	0.062828953	-3.992427
MIR8063	1.100642416	0	0	-12.13092	LIPI	1.659653067	27.77931829	0.059744197	-4.065058	MTHFS	13.207709	0.829826533	0.062828953	-3.992427
SPANXA2-O	1.100642416	0	0	-12.13092	SH2D1B	1.659653067	27.77931829	0.059744197	-4.065058	CLEC9A	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	27.77931829	0.059744197	-4.065058	TRAV8-2	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	PODN	28.21410213	473.3595836	0.059603952	-4.068448	ENSG000002	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	FAM107A	14.9368776	251.1250373	0.059479842	-4.071455	LINC02028	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	MTMR8	5.808785734	97.78320037	0.059404741	-4.073278	GTF2I-AS1	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	UGT1A1	4.9789592	84.44912759	0.058958089	-4.084166	ENSG000002	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	SLC10A6	2.4894796	42.22456379	0.058958089	-4.084166	RNF225	13.207709	0.829826533	0.062828953	-3.992427
ENSG000002	1.100642416	0	0	-12.13092	CDO1	4.149132667	71.11505481	0.058343942	-4.099273	ENSG000002	13.207709	0.829826533	0.062828953	-3.992427
MIR6724-3	1.100642416	0	0	-12.13092	GLIS1	8.298265334	144.4524551	0.057446343	-4.121641	RANBP3L	543.7173537	34.02288787	0.062574585	-3.998279
ENSG000002	1.100642416	0	0	-12.13092	UPK2	1.659653067	28.89049102	0.057446343	-4.121641	SEMA4A	416.0428334	25.72462253	0.061831668	-4.01551
ENSG000002	1.100642416	0	0	-12.13092	CLDN16	1.659653067	28.89049102	0.057446343	-4.121641	CPAMD8	834.2869516	51.44924507	0.061668524	-4.019322
MIR8078	1.100642416	0	0	-12.13092	GHSR	1.659653067	28.89049102	0.057446343	-4.121641	GSTO2	175.0021442	10.78774493	0.061643501	-4.019907
ENSG000002	1.100642416	0	0	-12.13092	CNGA4	1.659653067	28.89049102	0.057446343	-4.121641	ANPEP	2896.89084	177.5828781	0.061301198	-4.027941
ENSG000002	1.100642416	0	0	-12.13092	NEUROD2	1.659653067	28.89049102	0.057446343	-4.121641	THRB	723.1220675	43.98080627	0.060820722	-4.039293
MIR6806	1.100642416	0	0	-12.13092	MAB21L1	1.659653067	28.89049102	0.057446343	-4.121641	KCNAB1	314.7837311	19.08601027	0.060632137	-4.043774
ENSG000002	1.100642416	0	0	-12.13092	FXYD3	0.829826533	14.44524551	0.057446343	-4.121641	USP9Y	3780.7067	229.0321232	0.060579183	-4.045034
ENSG000002	1.100642416	0	0	-12.13092	MAGEB2	0.829826533	14.44524551	0.057446343	-4.121641	KCNN2	82.54818122	4.9789592	0.060315795	-4.05132
MIR6739	1.100642416	0	0	-12.13092	ENTREP2	0.829826533	14.44524551	0.057446343	-4.121641	PEG3	289.4689555	17.4263572	0.060201126	-4.054066
ENSG000002	1.100642416	0	0	-12.13092	DPPA4	0.829826533	14.44524551	0.057446343	-4.121641	MYLK	7407.323462	445.6168484	0.060158956	-4.055077
NBEAP5	1.100642416	0	0	-12.13092	NAT2	0.829826533	14.44524551	0.057446343	-4.121641	DMD	3601.301986	215.7548987	0.059910249	-4.061053
ENSG000002	1.100642416	0	0	-12.13092	C1orf87	0.829826533	14.44524551	0.057446343	-4.121641	LBH	1179.88867	70.53525534	0.05978128	-4.064162
ENSG000002	1.100642416	0	0	-12.13092	LMOD2	0.829826533	14.44524551	0.057446343	-4.121641	CDCA7L	320.2869431	19.08601027	0.059590348	-4.068778
ENSG000002	1.100642416	0	0	-12.13092	OR10V1	0.829826533	14.44524551	0.057446343	-4.121641	CRACR2B	168.3982897	9.9579184	0.059133133	-4.079889
MIR6811	1.100642416	0	0	-12.13092	ISX	0.829826533	14.44524551	0.057446343	-4.121641	CH25H	140.8822293	8.298265334	0.058902144	-4.085536

ENSG000002	1.100642416	0	0	-12.13092	OR2T33	0.829826533	14.44524551	0.057446343	-4.121641	PYHIN1	113.3661689	6.638612267	0.058559025	-4.093965	
ENSG000002	1.100642416	0	0	-12.13092	OR2L13	0.829826533	14.44524551	0.057446343	-4.121641	COMP	1474.860838	86.30195947	0.058515324	-4.095042	
ENSG000002	1.100642416	0	0	-12.13092	ZNF676	0.829826533	14.44524551	0.057446343	-4.121641	TESPA1	141.9828717	8.298265334	0.058445538	-4.096763	
ENSG000002	1.100642416	0	0	-12.13092	SULT1C3	0.829826533	14.44524551	0.057446343	-4.121641	LY6K	156.2912231	9.128091867	0.058404379	-4.09778	
ENSG000002	1.100642416	0	0	-12.13092	OR10Z1	0.829826533	14.44524551	0.057446343	-4.121641	SAMD5	227.8329802	13.27722453	0.058276131	-4.100951	
ENSG000002	1.100642416	0	0	-12.13092	DAXX	0.829826533	14.44524551	0.057446343	-4.121641	CPXM2	514.0000084	29.8737552	0.058120145	-4.104818	
ENSG000002	1.100642416	0	0	-12.13092	PKP4-AS1	0.829826533	14.44524551	0.057446343	-4.121641	GARIN1B	28.61670282	1.659653067	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	API5P2	0.829826533	14.44524551	0.057446343	-4.121641	TCEAL5	28.61670282	1.659653067	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	ASB15-AS1	0.829826533	14.44524551	0.057446343	-4.121641	NPFFR2	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	TMEM26-AS	0.829826533	14.44524551	0.057446343	-4.121641	CCL22	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	PPIAP6	0.829826533	14.44524551	0.057446343	-4.121641	STBD1	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	MUSTN1	0.829826533	14.44524551	0.057446343	-4.121641	OIT3	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	14.44524551	0.057446343	-4.121641	RNF212	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	CREB3L1	33.19306133	584.4768567	0.056791062	-4.138192	ZKSCAN7	14.30835141	0.829826533	0.057995957	-4.107904	
MIR7155	1.100642416	0	0	-12.13092	NTRK2	155.1775617	2754.597201	0.05633403	-4.14985	TRAJ14	14.30835141	0.829826533	0.057995957	-4.107904	
U4.1	1.100642416	0	0	-12.13092	SLC38A11	12.447398	221.1233736	0.056291643	-4.150935	LINC01287	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	SLC2A10	24.894796	446.691438	0.055731527	-4.165363	HISLA	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	MEOX2	5.808785734	104.4502368	0.055612949	-4.168435	ENSG000002	14.30835141	0.829826533	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	ZIC1	49.789592	895.6052215	0.055593236	-4.168947	GALNT17	85.85010847	4.9789592	0.057995957	-4.107904	
ZBTB2P1	1.100642416	0	0	-12.13092	CLCA4	4.9789592	90.00499125	0.055318701	-4.176089	SIRPG	42.92505424	2.4894796	0.057995957	-4.107904	
YRDCP1	1.100642416	0	0	-12.13092	ERP27	3.319306133	60.0033275	0.055318701	-4.176089	RSPO3	42.92505424	2.4894796	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	30.00166375	0.055318701	-4.176089	IGHV3-33	42.92505424	2.4894796	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	30.00166375	0.055318701	-4.176089	VPS9D1-AS1	42.92505424	2.4894796	0.057995957	-4.107904	
Y_RNA.134	1.100642416	0	0	-12.13092	EPHB6	13.27722453	241.1244827	0.055063776	-4.182753	ITK	100.1584599	5.808785734	0.057995957	-4.107904	
ENSG000002	1.100642416	0	0	-12.13092	SLC4A10	23.23514293	422.2456379	0.05502755	-4.183702	CFAP69	1448.44542	83.81247987	0.057863747	-4.111196	
ENSG000002	1.100642416	0	0	-12.13092	CNGA1	33.19306133	603.3667932	0.055013073	-4.184082	NLGN4Y	891.5203572	51.44924507	0.057709557	-4.115046	
ENSG000002	1.100642416	0	0	-12.13092	MUC7	2.4894796	45.55808199	0.054644083	-4.193791	USP40	1066.522501	61.40716347	0.057576998	-4.118364	
RN7SL429P	1.100642416	0	0	-12.13092	OR51A7	2.4894796	45.55808199	0.054644083	-4.193791	SLC2A10	433.653112	24.894796	0.057407166	-4.122625	
ENSG000002	1.100642416	0	0	-12.13092	SERHL2	2.4894796	45.55808199	0.054644083	-4.193791	JHY	146.3854414	8.298265334	0.056687778	-4.140818	
ENSG000002	1.100642416	0	0	-12.13092	OR4D10	2.4894796	45.55808199	0.054644083	-4.193791	GLIS1	147.4860838	8.298265334	0.056264734	-4.151625	
Metazoa_SRP	1.100642416	0	0	-12.13092	ZNF728	2.4894796	45.55808199	0.054644083	-4.193791	CPED1	1199.700234	67.2159492	0.056027287	-4.157727	
ENSG000002	1.100642416	0	0	-12.13092	TGM2	153.5179087	2824.601083	0.054350297	-4.201568	SLC7A13	29.71734524	1.659653067	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	CNTNAP3P2	3.319306133	61.11450023	0.054312906	-4.202561	ARRDC5	29.71734524	1.659653067	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	TMEM100	4.9789592	92.22733671	0.05398572	-4.211278	APOBEC3G	178.3040714	9.9579184	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	PNPLA7	52.2790716	980.0543491	0.053343033	-4.228556	HSD17B13	89.15203572	4.9789592	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	SEC14L4	1.659653067	31.11283648	0.053343033	-4.228556	HSH2D	89.15203572	4.9789592	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	IFNA21	1.659653067	31.11283648	0.053343033	-4.228556	HOXC4	89.15203572	4.9789592	0.055847959	-4.162352	
ENSG000002	1.100642416	0	0	-12.13092	BTNL3	1.659653067	31.11283648	0.053343033	-4.228556	RGN	104.5610295	5.808785734	0.055554022	-4.169965	
ENSG000002	1.100642416	0	0	-12.13092	ARHGEF35	1.659653067	31.11283648	0.053343033	-4.228556	RRAD	104.5610295	5.808785734	0.055554022	-4.169965	
ENSG000002	1.100642416	0	0	-12.13092	AICDA	0.829826533	15.55641824	0.053343033	-4.228556	LMTK3	269.657392	14.9368776	0.055392057	-4.174177	
CEP83-DT	1.100642416	0	0	-12.13092	OCM	0.829826533	15.55641824	0.053343033	-4.228556	SCN7A	886.0171451	48.95976547	0.05525826	-4.177666	
ENSG000002	1.100642416	0	0	-12.13092	CITED1	0.829826533	15.55641824	0.053343033	-4.228556	CYP3A5	45.12633907	2.4894796	0.055166886	-4.180054	
EPB41L4A-D	1.100642416	0	0	-12.13092	OR4D6	0.829826533	15.55641824	0.053343033	-4.228556	PLEKHN1	45.12633907	2.4894796	0.055166886	-4.180054	
ENSG000002	1.100642416	0	0	-12.13092	NBPF17P	0.829826533	15.55641824	0.053343033	-4.228556	IGLV2-23	45.12633907	2.4894796	0.055166886	-4.180054	
ENSG000002	1.100642416	0	0	-12.13092	TPPP2	0.829826533	15.55641824	0.053343033	-4.228556	CYP2J2	815.5760305	44.8106328	0.054943538	-4.185906	
ENSG000002	1.100642416	0	0	-12.13092	AKR1B10	0.829826533	15.55641824	0.053343033	-4.228556	SLC6A14	60.5353329	3.319306133	0.054832541	-4.188824	
SMG6-IT1	1.100642416	0	0	-12.13092	DPRX	0.829826533	15.55641824	0.053343033	-4.228556	TMC5	1893.104956	103.7283167	0.054792692	-4.189873	
ENSG000002	1.100642416	0	0	-12.13092	CTXN3	0.829826533	15.55641824	0.053343033	-4.228556	PTN	607.5546138	33.19306133	0.054633873	-4.194061	
ENSG000002	1.100642416	0	0	-12.13092	PGGT1BP1	0.829826533	15.55641824	0.053343033	-4.228556	PRKCQ	75.94432672	4.149132667	0.054633873	-4.194061	
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	15.55641824	0.053343033	-4.228556	SLAMF1	75.94432672	4.149132667	0.054633873	-4.194061	
ENSG000002	1.100642416	0	0	-12.13092	MIR7856	0.829826533	15.55641824	0.053343033	-4.228556	AOC3	353.3062156	19.08601027	0.054021156	-4.210332	
ENSG000002	1.100642416	0	0	-12.13092	BPI	2.4894796	46.66925472	0.053343033	-4.228556	GLYATL3	123.2719506	6.638612267	0.053853389	-4.214819	
ENSG000002	1.100642416	0	0	-12.13092	KCNK13	6.638612267	124.4513459	0.053343033	-4.228556	P2RX1	15.40899383	0.829826533	0.053853389	-4.214819	
ENSG000002	1.100642416	0	0	-12.13092	ADAMTS1	177.5828781	3361.297513	0.052831645	-4.242454	GC	15.40899383	0.829826533	0.053853389	-4.214819	
LINC01727	1.100642416	0	0	-12.13092	GNAS-AS1	2.4894796	47.78042745	0.052102497	-4.262504	ADGRG5	15.40899383	0.829826533	0.053853389	-4.214819	
ENSG000002	1.100642416	0	0	-12.13092	SEL1L3	56.42820427	1084.504586	0.052031319	-4.264476	ENSG000002	15.40899383	0.829826533	0.053853389	-4.214819	
ENSG000002	1.100642416	0	0	-12.13092	CYP4B1	23.23514293	447.8026108	0.05188702	-4.268483	MMP7	1067.623144	57.2580308	0.053631313	-4.220781	
LINC01451	1.100642416	0	0	-12.13092	RELN	68.04577574	1315.628514	0.051721117	-4.273103	SDCCAG8	171.7002169	9.128091867	0.053162961	-4.233435	
ENSG000002	1.100642416	0	0	-12.13092	FOLH1	24.06496947	465.5813745	0.051687999	-4.274027	RNF138P1	125.4732355	6.638612267	0.052908592	-4.240354	
ENSG000002	1.100642416	0	0	-12.13092	BPIFB1	4.9789592	96.67202764	0.051503618	-4.279182	GNAL	204.7194894	10.78774493	0.052695251	-4.246183	
ENSG000002	1.100642416	0	0	-12.13092	HRG	1.659653067	32.22400921	0.051503618	-4.279182	GSTM2	331.2933673	17.4263572	0.052600984	-4.248766	
ENSG000002	1.100642416	0	0	-12.13092	ADH1A	1.659653067	32.22400921	0.051503618	-4.279182	DMGDH	94.6552478	4.9789592	0.052600984	-4.248766	
ENSG000002	1.100642416	0	0	-12.13092	COL28A1	9.128091867	177.787637	0.051342669	-4.283698	SLC15A1	47.3276239	2.4894796	0.052600984	-4.248766	
ENSG000002	1.100642416	0	0	-12.13092	IL1RAPL1	7.4684388	145.5636278	0.051307039	-4.284699	RNLS	47.3276239	2.4894796	0.052600984	-4.248766	
ENSG000002	1.100642416	0	0	-12.13092	GATA3	9.128091867	178.8988098	0.051023771	-4.292687	FAM83B	111.164884	5.808785734	0.052253783	-4.258321	
ENSG000002	1.100642416	0	0	-12.13092	DDX4	3.319306133	65.55919115	0.050630676	-4.303844	TACR2	31.91863007	1.659653067	0.051996375	-4.265445	
OR2T11	1.100642416	0	0	-12.13092	CFI	3.319306133	65.55919115	0.050630676	-4.303844	IGLC3	399.5331971	20.74566333	0.051924755	-4.267434	
ENSG000002	1.100642416	0	0	-12.13092	BEND4	7.4684388	147.7859733	0.050535505	-4.306559	LRCH2	529.4090022	27.3842756	0.051726124	-4.272963	
ENSG000002	1.100642416	0	0	-12.13092	THSD4	136.0915515	2717.928501	0.050071792	-4.319858	EYA4	417.1434758	21.57548987	0.051721988	-4.273078	
ENSG000002	1.100642416	0	0	-12.13092	FZD7	33.19306133	665.5924661	0.049869947	-4.325686	NECTIN4	192.6124229	9.9579184	0.051699253	-4.273713	
ENSG000002	1.100642416	0	0	-12.13092	SLC22A2	5.808785734	116.6731368	0.049786831	-4.328092	PDLIM4	160.6937928	8.298265334	0.051640236	-4.275361	
ENSG000002	1.100642416	0	0	-12.13092	CRYGN	3.319306133	66.67036389	0.049786831	-4.328092	SOCS2	659.2848074	34.02288787	0.051605751	-4.276324	
ENSG000002	1.100642416	0	0	-12.13092	SIGLEC16	1.659653067	33.33518194	0.049786831	-4.328092	ABCD2	48.42826632	2.4894796	0.051405507	-4.281933	
ENSG000002	1.100642416	0	0	-12.13092	PAX2	0.829826533	16.66759097	0.049786831	-4.328092	ELAPOR1	3735.580361	190.8601027	0.05109249	-4.290745	
ENSG000002	1.100642416	0	0	-12.13092	CEBPE	0.829826533	16.66759097	0.049786831	-4.328092	LCN2	162.8950776	8.298265334	0.050942395	-4.294989	
ENSG000002	1.100642416	0	0	-12.13092	AKAP4	0.829826533	16.66759097	0.049786831	-4.328092	MS4A2	114.4668113	5.808785734	0.050746462	-4.300549	
ENSG000002	1.100642416	0	0	-12.13092	OR2B2	0.829826533	16.66759097	0.049786831	-4.328092	ABCB1	773.7516187	39.00184707	0.050406159	-4.310256	
ENSG000002	1.100642416	0	0	-12.13092	OR2V1	0.829826533	16.66759097	0.049786831	-4.328092	TMSB4Y	16.50963624	0.829826533	0.050263163	-4.314355	
ENSG000002	1.100642416	0	0	-12.13092	SMIM23	0.829826533	16.66759097	0.049786831	-4.328092	DUXAP8	16.50963624	0.829826533	0.050263163	-4.314355	
ENSG000002	1.100642416	0	0	-12.13092	HPDL	0.829826533	16.66759097	0.049786831	-4.328092	ASIC5	16.50963624	0.829826533	0.050263163	-4.314355	
ENSG000002	1.100642416	0	0	-12.13092	GAGE2A	0.829826533	16.66759097	0.049786831	-4.328092	TRAJ36	16.50963624	0.829826533	0.050263163	-4.314355	
LINC00244	1.100642416	0	0	-12.13092	OR1S2	0.829826533	16.66759097	0.049786831	-4.328092	ENSG000002	16.50963624	0.829826533	0.050263163	-4.314355	
ENSG000002	1.100642416	0	0	-12.13092	OR6C65	0.829826533	16.66759097	0.049786831	-4.328092	ENSG000002	16.50963624	0.829826533	0.050263163	-4.314355	
ENSG000002	1.100642416	0	0	-12.13092	LRRC30	0.829826533	16.66759097	0.049786831	-4.328092	ANXA3	1493.571759	74.684388	0.050003883	-4.321816	
ENSG000002	1.100642416	0	0	-12.13092	DIO1	0.829826533	16.66759097	0.049786831	-4.328092	BMP4	482.0813783	24.06496947	0.049918895	-4.32427	
ENSG000002	1.100642416	0	0	-12.13092	OR4N1P	0.829826533	16.66759097	0.049786831	-4.328092	GABRP	200.3169198	9.9579184	0.04971082	-4.330296	
ENSG000002	1.100642416	0	0	-12.13092	NPAP1L	0.829826533	16.66759097	0.049786831	-4.328092	RSPO1	83.64882364	4.149132667	0.049601805	-4.333464	
ENSG000002	1.100642416	0	0	-12.13092	GPR149	8.298265334	167.7870824	0.049457117	-4.337678	GZMK	67.13918739	3.319306133	0.049439176	-4.338201	
ENSG000002	1.100642416	0	0	-12.13092	LRG1	16.59653067	336.6853376	0.049293892	-4.342447	PEBP4	101.2591023	4.9789592	0.049170485	-4.346064	
ENSG000002	1.100642416	0	0	-12.13092	MGLL	106.2177963	2159.008617	0.049197486	-4.345272	CRYBG1	4914.368389	241.4795212	0.049137448	-4.347033	
ENSG000002	1.100642416	0	0	-12.13092	C15orf48	4.149132667	84.44912759	0.049131741	-4.347201	PTEN	440.2569665	21.57548987	0.049006584	-4.350881	
ENSG000002	1.100642416	0	0	-12.13092	SLC2A5	10.78774493	221.1233736	0.048786091	-4.357386	CCR4	84.74946605	4.149132667	0.048957626	-4.352323	
ENSG000002	1.100642416	0	0	-12.13092	GPM6A	4.9789592	102.2278913	0.048704508	-4.359801	SIDT1	294.9721676	14.10705107	0.047825024	-4.38609	
ENSG000002	1.100642416	0	0	-12.13092	HSH2D	4.9789592	102.2278913	0.048704508	-4.359801	CDH3	643.8758135	30.70358173	0.047685565	-4.390304	
ENSG000002	1.100642416	0	0	-12.13092	TMEM26	15.76670413	324.4624376	0.048593311	-4.363098	LPIN3	298.2740948	14.10705107	0.047295596	-4.40215	
ENSG000002	1.100642416	0	0	-12.13092	SERPINI1	123.6441535	2544.585555	0.048591077	-4.363165	ANTXR2	2113.233439	99.579184	0.047121715	-4.407464	
ENSG000002	1.100642416	0	0	-12.13092	TRABD2B	3.319306133	68.89270935	0.048180804	-4.375398	SLAMF7	70.44111464	3.319306133	0.047121715	-4.407464	
ENSG000002	1.100642416	0	0	-12.13092	EMC9	1.659653067	34.44635467	0.048180804	-4.375398	CMA1	17.61027866	0.829826533	0.047121715	-4.407464	
ENSG000002	1.100642416	0	0	-12.13092	POTEF	1.659653067	34.44635467	0.048180804	-4.375398	PTGDS	17.61027866	0.829826533	0.047121715	-4.407464	
ENSG000002	1.100642416	0	0	-12.13092	KRTAP5-9	1.659653067	34.44635467	0.048180804	-4.375398	ZNF683	17.61027866	0.829826533	0.047121715	-4.407464	
AQP7P3	1.100642416	0	0	-12.13092	HOXA10	4.9789592	104.4502368	0.047668242	-4.390828	SUMO4	17.61027866	0.829826533	0.047121715	-4.407464	

ENSG000002	1.100642416	0	0	-12.13092	PDE1A	25.72462253	541.1411202	0.047537734	-4.394783	ANKRD30B	17.61027866	0.829826533	0.047121715	-4.407464
ENSG000002	1.100642416	0	0	-12.13092	PRODH	3.319306133	70.00388208	0.047416029	-4.398481	ZNF662	424.8479727	19.9158368	0.046877561	-4.414959
ENSG000002	1.100642416	0	0	-12.13092	SYT16	11.61757147	247.7915191	0.04688446	-4.414746	LTF	2633.837302	122.8143269	0.046629428	-4.422615
ENSG000002	1.100642416	0	0	-12.13092	OPRM1	2.4894796	53.33629111	0.046675154	-4.421201	CFTR	285.0663858	13.27722453	0.046575904	-4.424272
ENSG000002	1.100642416	0	0	-12.13092	LY9	1.659653067	35.55752741	0.046675154	-4.421201	CD38	89.15203572	4.149132667	0.046539966	-4.425386
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	35.55752741	0.046675154	-4.421201	CNTN4	338.9978642	15.76670413	0.046509745	-4.426323
ENSG000002	1.100642416	0	0	-12.13092	KRT24	0.829826533	17.7787637	0.046675154	-4.421201	BCL11A	249.8458285	11.61757147	0.046498961	-4.426658
ENSG000002	1.100642416	0	0	-12.13092	KRT38	0.829826533	17.7787637	0.046675154	-4.421201	LRRC26	143.0835141	6.638612267	0.046396766	-4.429832
ENSG000002	1.100642416	0	0	-12.13092	SRARP	0.829826533	17.7787637	0.046675154	-4.421201	PTGS2	411.6402637	19.08601027	0.046365752	-4.430797
ENSG000002	1.100642416	0	0	-12.13092	OR4C4P	0.829826533	17.7787637	0.046675154	-4.421201	DNAJA4	489.7858753	22.4053164	0.045745126	-4.450238
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	17.7787637	0.046675154	-4.421201	OLFM4	617.4603955	28.21410213	0.045693784	-4.451858
ENSG000002	1.100642416	0	0	-12.13092	NOS2P1	0.829826533	17.7787637	0.046675154	-4.421201	CDH19	163.99572	7.4684388	0.045540449	-4.456708
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	17.7787637	0.046675154	-4.421201	CD96	255.3490406	11.61757147	0.045496828	-4.45809
ENSG000002	1.100642416	0	0	-12.13092	INTS3	22.4053164	481.1377927	0.046567359	-4.424537	OR51F2	146.3854414	6.638612267	0.045350222	-4.462747
ENSG000002	1.100642416	0	0	-12.13092	SDCBP2	9.128091867	197.7887462	0.046150714	-4.437503	ENSG000002	55.03212081	2.4894796	0.045236846	-4.466358
ENSG000002	1.100642416	0	0	-12.13092	NLGN4X	5.808785734	126.6736914	0.045856292	-4.446737	CEACAM1	591.0449776	26.55444907	0.044927967	-4.476242
ENSG000002	1.100642416	0	0	-12.13092	IGF1	15.76670413	344.4635467	0.045771764	-4.449398	MAPK10	1018.094235	45.64045934	0.044829307	-4.479414
ENSG000002	1.100642416	0	0	-12.13092	SHANK3	2.4894796	54.44746384	0.0457226	-4.450949	PODN	632.8693894	28.21410213	0.04458124	-4.487419
ENSG000002	1.100642416	0	0	-12.13092	CYP27A1	12.447398	273.3484919	0.045536736	-4.456825	KCNMB1	205.8201318	9.128091867	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	LRRN1	617.3909408	13617.42182	0.045338314	-4.463125	MS4A1	37.42184215	1.659653067	0.044349849	-4.494927
OR51F1	1.100642416	0	0	-12.13092	CRISP2	1.659653067	36.66870014	0.045260755	-4.465596	NAP1L5	37.42184215	1.659653067	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	IGLON5	1.659653067	36.66870014	0.045260755	-4.465596	ENSG000002	37.42184215	1.659653067	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	KIAA1755	31.53340827	701.1499935	0.044973841	-4.47477	ISLR	18.71092108	0.829826533	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	FLNC	24.894796	557.8087112	0.044629629	-4.485854	VTCN1	18.71092108	0.829826533	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	FAM20A	30.70358173	688.9270935	0.044567244	-4.487872	CPB1	18.71092108	0.829826533	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	MUC17	31.53340827	712.2617209	0.044272221	-4.497454	ZNF658B	18.71092108	0.829826533	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	PAQR5	20.74566333	468.9148927	0.044241852	-4.498444	AIDAP2	18.71092108	0.829826533	0.044349849	-4.494927
TBC1D22A-A	1.100642416	0	0	-12.13092	FREM1	82.1528268	1870.103707	0.043929557	-4.508664	ENSG000002	18.71092108	0.829826533	0.044349849	-4.494927
ENSG000002	1.100642416	0	0	-12.13092	ITIH1	2.4894796	56.6698093	0.043929557	-4.508664	COL9A2	206.9207743	9.128091867	0.044113946	-4.502621
ENSG000002	1.100642416	0	0	-12.13092	VPS9D1-AS	2.4894796	56.6698093	0.043929557	-4.508664	NRK	113.3661689	4.9789592	0.043919268	-4.509002
ENSG000002	1.100642416	0	0	-12.13092	PIK3R2	0.829826533	18.88993643	0.043929557	-4.508664	SH3RF2	75.94432672	3.319306133	0.043707098	-4.515989
ENSG000002	1.100642416	0	0	-12.13092	AMELX	0.829826533	18.88993643	0.043929557	-4.508664	DTHD1	75.94432672	3.319306133	0.043707098	-4.515989
ENSG000002	1.100642416	0	0	-12.13092	IL36RN	0.829826533	18.88993643	0.043929557	-4.508664	DPP4	1218.411155	53.10889814	0.043588651	-4.519904
ENSG000002	1.100642416	0	0	-12.13092	ABCG5	0.829826533	18.88993643	0.043929557	-4.508664	GLI1	210.2227015	9.128091867	0.043421057	-4.525461
ENSG000002	1.100642416	0	0	-12.13092	CD27	0.829826533	18.88993643	0.043929557	-4.508664	PRSS8	1109.447556	48.12993894	0.043381896	-4.526763
ENSG000002	1.100642416	0	0	-12.13092	SUN5	0.829826533	18.88993643	0.043929557	-4.508664	PRR16	95.75589022	4.149132667	0.043330313	-4.52848
ENSG000002	1.100642416	0	0	-12.13092	TSPYL6	0.829826533	18.88993643	0.043929557	-4.508664	ANKRD29	77.04496914	3.319306133	0.043082711	-4.536747
ENSG000002	1.100642416	0	0	-12.13092	RNF212	0.829826533	18.88993643	0.043929557	-4.508664	ZNF350-AS1	77.04496914	3.319306133	0.043082711	-4.536747
ENSG000002	1.100642416	0	0	-12.13092	POTEC	0.829826533	18.88993643	0.043929557	-4.508664	ENSG000002	38.52248457	1.659653067	0.043082711	-4.536747
ENSG000002	1.100642416	0	0	-12.13092	CACNA1F	3.319306133	76.67091847	0.043292896	-4.529726	IKZF3	387.4261305	16.59653067	0.042837923	-4.544968
ENSG000002	1.100642416	0	0	-12.13092	GUCY1A1	112.8564085	2613.478264	0.043182455	-4.533411	GPR174	96.85653263	4.149132667	0.042837923	-4.544968
ENSG000002	1.100642416	0	0	-12.13092	DDAH2	10.78774493	252.23621	0.042768423	-4.54731	SLC23A1	58.33404806	2.4894796	0.04267627	-4.550422
PRAMEF26	1.100642416	0	0	-12.13092	LRP1B	22.4053164	530.0293929	0.042271838	-4.564159	HSPB1P1	58.33404806	2.4894796	0.04267627	-4.550422
ENSG000002	1.100642416	0	0	-12.13092	PLEKHH1	303.7165112	7207.066336	0.04214149	-4.568615	CHRDL1	545.9186385	23.23514293	0.042561549	-4.554306
ENSG000002	1.100642416	0	0	-12.13092	SCARA5	34.8527144	833.3795486	0.041820938	-4.579631	SLC4A4	6584.042934	279.6515417	0.042474137	-4.557272
ENSG000002	1.100642416	0	0	-12.13092	SFRP4	30.70358173	738.9298664	0.041551415	-4.588959	ARHGAP6	1565.113516	66.38612267	0.042416171	-4.559242
ENSG000002	1.100642416	0	0	-12.13092	SYNM-AS2	2.4894796	60.0033275	0.041489026	-4.591126	ACTA2	11409.25929	478.8099098	0.041966783	-4.574608
ENSG000002	1.100642416	0	0	-12.13092	DMRT3	1.659653067	40.00221833	0.041489026	-4.591126	HTR2A	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	GPR82	1.659653067	40.00221833	0.041489026	-4.591126	PI3	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	OR2V2	1.659653067	40.00221833	0.041489026	-4.591126	KRT73	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	40.00221833	0.041489026	-4.591126	GIMAP5	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	A1CF	0.829826533	20.00110917	0.041489026	-4.591126	LINC00885	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	GJD2	0.829826533	20.00110917	0.041489026	-4.591126	PCGEM1	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	RBMXL2	0.829826533	20.00110917	0.041489026	-4.591126	ENSG000002	19.81156349	0.829826533	0.041885969	-4.577389
ENSG000002	1.100642416	0	0	-12.13092	PGK2	0.829826533	20.00110917	0.041489026	-4.591126	DTX2P1	60.5353329	2.4894796	0.041124406	-4.603861
ENSG000002	1.100642416	0	0	-12.13092	CCDC60	0.829826533	20.00110917	0.041489026	-4.591126	ZNF702P	60.5353329	2.4894796	0.041124406	-4.603861
ENSG000002	1.100642416	0	0	-12.13092	LDLRAD2	0.829826533	20.00110917	0.041489026	-4.591126	HPSE2	101.2591023	4.149132667	0.040975404	-4.609098
ENSG000002	1.100642416	0	0	-12.13092	TRAV19	0.829826533	20.00110917	0.041489026	-4.591126	EDN1	162.8950776	6.638612267	0.040753916	-4.616918
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	20.00110917	0.041489026	-4.591126	BEND4	183.8072835	7.4684388	0.040631898	-4.621243
ENSG000002	1.100642416	0	0	-12.13092	LYPD4	0.829826533	20.00110917	0.041489026	-4.591126	GSTM5	82.54818122	3.319306133	0.04021053	-4.636283
ENSG000002	1.100642416	0	0	-12.13092	ASPA	7.4684388	183.3435007	0.04073468	-4.617599	ZMAT1	1127.057834	44.8106328	0.039758947	-4.652577
ENSG000002	1.100642416	0	0	-12.13092	PLAT	60.57733694	1495.638497	0.04050266	-4.62584	ICOS	41.82441182	1.659653067	0.039681444	-4.655392
ENSG000002	1.100642416	0	0	-12.13092	PLCH2	3.319306133	82.22678213	0.040367701	-4.630655	ACKR1	41.82441182	1.659653067	0.039681444	-4.655392
THRIL	1.100642416	0	0	-12.13092	FSHR	1.659653067	41.11339106	0.040367701	-4.630655	DIO1	20.91220591	0.829826533	0.039681444	-4.655392
ENSG000002	1.100642416	0	0	-12.13092	USP40	61.40716347	1538.974233	0.039901359	-4.647418	DSC3	314.7837311	12.447398	0.039542698	-4.660445
PCAT5	1.100642416	0	0	-12.13092	SSPOP	28.21410213	711.1505481	0.039673881	-4.655667	PLA1A	257.5503254	9.9579184	0.038663971	-4.692866
LINC01943	1.100642416	0	0	-12.13092	KRT14	2.4894796	63.33684569	0.039305393	-4.669129	SFTPA2	85.85010847	3.319306133	0.038663971	-4.692866
ELDR	1.100642416	0	0	-12.13092	NAP1L5	1.659653067	42.22456379	0.039305393	-4.669129	DSG3	42.92505424	1.659653067	0.038663971	-4.692866
MATR3.1	1.100642416	0	0	-12.13092	ADAD2	0.829826533	21.1122819	0.039305393	-4.669129	CXCL11	42.92505424	1.659653067	0.038663971	-4.692866
LINC00581	1.100642416	0	0	-12.13092	PYDC1	0.829826533	21.1122819	0.039305393	-4.669129	POTEG	150.788011	5.808785734	0.038522862	-4.698141
TMEM272	1.100642416	0	0	-12.13092	OFCC1	0.829826533	21.1122819	0.039305393	-4.669129	HMGN2P46	64.93790256	2.4894796	0.038336311	-4.705145
ENSG000002	1.100642416	0	0	-12.13092	GNG10	0.829826533	21.1122819	0.039305393	-4.669129	TENM1	890.4197148	34.02288787	0.038209944	-4.709908
LINC01338	1.100642416	0	0	-12.13092	C8orf34-AS1	0.829826533	21.1122819	0.039305393	-4.669129	MYL9	5475.696021	207.4566333	0.037886806	-4.722161
PISRT1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	21.1122819	0.039305393	-4.669129	NPR3	1120.45398	42.3211532	0.037771434	-4.726561
ENSG000002	1.100642416	0	0	-12.13092	RBP3	0.829826533	21.1122819	0.039305393	-4.669129	LAMB3	242.1413316	9.128091867	0.037697372	-4.729392
RBM5-AS1	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	21.1122819	0.039305393	-4.669129	BDNF	88.0513933	3.319306133	0.037697372	-4.729392
ENSG000002	1.100642416	0	0	-12.13092	SLC30A3	4.149132667	106.6725822	0.038895962	-4.684236	WDR73	44.02569665	1.659653067	0.037697372	-4.729392
TRBJ1-4	1.100642416	0	0	-12.13092	TSPAN1	15.76670413	411.1339106	0.038349316	-4.704655	VGLL1	22.01284833	0.829826533	0.037697372	-4.729392
ENSG000002	1.100642416	0	0	-12.13092	SPATC1	2.4894796	65.55919115	0.037973007	-4.718882	IL2RG	22.01284833	0.829826533	0.037697372	-4.729392
OR4G3P	1.100642416	0	0	-12.13092	GPRC5A	27.3842756	723.3734482	0.037856346	-4.723321	KRT2	22.01284833	0.829826533	0.037697372	-4.729392
ENSG000002	1.100642416	0	0	-12.13092	HIF3A	14.9368776	397.7998379	0.037548727	-4.735092	ENSG000002	22.01284833	0.829826533	0.037697372	-4.729392
ENSG000002	1.100642416	0	0	-12.13092	RAB27B	8.298265334	222.2345463	0.037340123	-4.74313	SEMA3C	2160.561063	81.32300027	0.03763976	-4.731599
ENSG000002	1.100642416	0	0	-12.13092	SLC23A1	2.4894796	66.67036389	0.037340123	-4.74313	HSPB7	267.4561072	9.9579184	0.037231972	-4.747314
ENSG000002	1.100642416	0	0	-12.13092	GCM2	0.829826533	22.22345463	0.037340123	-4.74313	TRAF3IP3	89.15203572	3.319306133	0.037231972	-4.747314
PTMAP12	1.100642416	0	0	-12.13092	ADAM30	0.829826533	22.22345463	0.037340123	-4.74313	NLGN4X	156.2912231	5.808785734	0.037166423	-4.749856
ENSG000002	1.100642416	0	0	-12.13092	CPB1	0.829826533	22.22345463	0.037340123	-4.74313	PDZK1IP1	90.25267814	3.319306133	0.036777924	-4.765016
RHOXF1P3	1.100642416	0	0	-12.13092	CMTM5	0.829826533	22.22345463	0.037340123	-4.74313	ACADL	497.4903722	18.25618373	0.036696557	-4.768211
PSG11-AS1	1.100642416	0	0	-12.13092	BHLHE22	0.829826533	22.22345463	0.037340123	-4.74313	P3H2	1025.798732	37.342194	0.036403042	-4.779797
ENSG000002	1.100642416	0	0	-12.13092	OR5M11	0.829826533	22.22345463	0.037340123	-4.74313	TRPV6	274.0599617	9.9579184	0.036334816	-4.782504
MPP7-DT	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	22.22345463	0.037340123	-4.74313	IGHM	114.4668113	4.149132667	0.036247473	-4.785976
ENSG000002	1.100642416	0	0	-12.13092	LAMA3	129.4529392	3485.748859	0.03713777	-4.750969	ACSM1	322.488228	11.61757147	0.036024792	-4.794866
ENSG000002	1.100642416	0	0	-12.13092	ST6GALNA(	1.659653067	45.55808199	0.036429388	-4.778753	TRABD2B	92.45396297	3.319306133	0.035902259	-4.799782
LINC02456	1.100642416	0	0	-12.13092	ADH4	1.659653067	45.55808199	0.036429388	-4.778753	CRISP2	46.22698148	1.659653067	0.035902259	-4.799782
ENSG000002	1.100642416	0	0	-12.13092	ZNF385B	48.12993894	1338.963141	0.035945679	-4.798038	GASK1B-AS	46.22698148	1.659653067	0.035902259	-4.799782
LBHD2	1.100642416	0	0	-12.13092	WNT6	4.149132667	115.5619641	0.035903965	-4.799713	NKG7	23.11349074	0.829826533	0.035902259	-4.799782
ENSG000002	1.100642416	0	0	-12.13092	CHST9	37.342194	1041.168849	0.035865647	-4.801254	CCDC65	23.11349074	0.829826533	0.035902259	-4.799782
ENSG000002	1.100642416	0	0	-12.13092	SSTR2	16.59653067	463.359029	0.035817864	-4.803177	ENSG000002	23.11349074	0.829826533	0.035902259	-4.799782
ENSG000002	1.100642416	0	0	-12.13092	KCNN2	4.9789592	140.0077642	0.035562022	-4.813519	AJUBA-DT	23.11349074	0.829826533	0.035902259	-4.799782
MGC4859	1.100642416	0	0	-12.13092	CSHL1	1.659653067	46.66925472	0.035562022	-4.813519	TRPM8	1734.612448	62.23699	0.035879478	-4.800697
ENSG000002	1.100642416	0	0	-12.13092	TGM1	0.829826533	23.33462736	0.035562022	-4.813519	TMEM26	441.3576089	15.76670413	0.035723195	-4.806995
ENSG000002	1.100642416	0	0	-12.13092	CYP11B2	0.829826533	23.33462736	0.035562022	-4.813519	CABCOCO1	209.1220591	7.4684388	0.0357133	-4.807395

ENSG000002	1.100642416	0	0	-12.13092	SYNDIG1L	0.829826533	23.33462736	0.035562022	-4.813519	SGCA	116.6680961	4.149132667	0.035563559	-4.813457
ENSG000002	1.100642416	0	0	-12.13092	FAM236D	0.829826533	23.33462736	0.035562022	-4.813519	KRT6A	117.7687385	4.149132667	0.035231189	-4.827003
ENSG000002	1.100642416	0	0	-12.13092	TTC22	8.298265334	235.5686191	0.035226531	-4.827194	SOD3	400.6338395	14.10705107	0.035211831	-4.827796
ENSG000002	1.100642416	0	0	-12.13092	TMC5	103.7283167	2949.052429	0.035173439	-4.82937	SPON2	897.0235693	31.53340827	0.035153378	-4.830193
MEP1AP1	1.100642416	0	0	-12.13092	VCX3B	3.319306133	95.5608549	0.034734998	-4.847466	CCN3	1602.535358	55.59837774	0.03469401	-4.84917
ENSG000002	1.100642416	0	0	-12.13092	ALX3	2.4894796	72.22622754	0.034467806	-4.858607	ASB5	95.75589022	3.319306133	0.03466425	-4.850408
ENSG000002	1.100642416	0	0	-12.13092	ARHGEF38	42.3211532	1240.068768	0.03412807	-4.872897	IL32	505.1948691	17.4263572	0.034494327	-4.857497
ENSG000002	1.100642416	0	0	-12.13092	GRM3	6.638612267	195.5664007	0.033945567	-4.880633	SFRP4	894.8222845	30.70358173	0.034312491	-4.865122
ENSG000002	1.100642416	0	0	-12.13092	PKNOX2	4.149132667	122.2290005	0.033945567	-4.880633	ROBO2	338.9978642	11.61757147	0.034270338	-4.866896
LINC02357	1.100642416	0	0	-12.13092	FAM180A	2.4894796	73.33740027	0.033945567	-4.880633	RAB27B	242.1413316	8.298265334	0.034270338	-4.866896
FAM240B	1.100642416	0	0	-12.13092	NPFFR2	0.829826533	24.44580009	0.033945567	-4.880633	STRA6	48.42826632	1.659653067	0.034270338	-4.866896
U6	1.100642416	0	0	-12.13092	RFLNA	9.128091867	277.7931829	0.032859308	-4.927554	FXYD3	24.21413316	0.829826533	0.034270338	-4.866896
NBPF13P	1.100642416	0	0	-12.13092	TGM7	1.659653067	51.11394565	0.032469672	-4.944763	SH2D1A	24.21413316	0.829826533	0.034270338	-4.866896
ENSG000002	1.100642416	0	0	-12.13092	WIZP1	1.659653067	51.11394565	0.032469672	-4.944763	POTEI	345.6017187	11.61757147	0.033615491	-4.89473
MIR3975	1.100642416	0	0	-12.13092	OIT3	0.829826533	25.55697282	0.032469672	-4.944763	ZP3	99.05781747	3.319306133	0.033508775	-4.899317
ENSG000002	1.100642416	0	0	-12.13092	NAALADL2	72.1949084	2227.901327	0.032404895	-4.947644	PLEKHG7	49.52890873	1.659653067	0.033508775	-4.899317
MIR520F	1.100642416	0	0	-12.13092	SHISA6	28.21410213	880.0488033	0.032059702	-4.963095	RARRES1	471.0749542	15.76670413	0.033469629	-4.901004
ENSG000002	1.100642416	0	0	-12.13092	EHF	30.70358173	957.8308945	0.032055326	-4.963292	CCL19	124.372593	4.149132667	0.033360506	-4.905715
C19orf85	1.100642416	0	0	-12.13092	SAMD5	13.27722453	415.5786016	0.031948768	-4.968096	HCAR1	74.84368431	2.4894796	0.033262387	-4.909964
ENSG000002	1.100642416	0	0	-12.13092	SLC22A10	8.298265334	261.1255919	0.031778828	-4.97579	DNAH8	1338.381178	43.98080627	0.032861196	-4.927471
ENSG000002	1.100642416	0	0	-12.13092	PLEKHG7	1.659653067	52.22511838	0.031778828	-4.97579	CES1	25.31477557	0.829826533	0.032780324	-4.931026
LINC02009	1.100642416	0	0	-12.13092	ENSG000002	1.659653067	52.22511838	0.031778828	-4.97579	ENSG000002	25.31477557	0.829826533	0.032780324	-4.931026
MIR6715B	1.100642416	0	0	-12.13092	UGT2B17	4.149132667	131.1183823	0.031644172	-4.981916	GRIK1	155.1905807	4.9789592	0.03208287	-4.962053
ENSG000002	1.100642416	0	0	-12.13092	AOX1	21.57548987	685.5935753	0.031469796	-4.989888	LINC00578	51.73019357	1.659653067	0.03208287	-4.962053
ENSG000002	1.100642416	0	0	-12.13092	ADRB2	6.638612267	212.2339917	0.031279684	-4.99863	C8orf34	130.9764475	4.149132667	0.031678464	-4.980354
ENSG000002	1.100642416	0	0	-12.13092	SPON2	31.53340827	1008.94484	0.031253848	-4.999822	COL26A1	79.24625397	2.4894796	0.031414477	-4.992427
ENSG000002	1.100642416	0	0	-12.13092	P3H2	37.342194	1197.844204	0.0311745	-5.00349	PKNOX2	133.1777324	4.149132667	0.031154853	-5.004399
ENSG000002	1.100642416	0	0	-12.13092	LRRTM3	1.659653067	53.33629111	0.031116769	-5.006164	TGM2	4930.878025	153.5179087	0.03113399	-5.005366
ENSG000002	1.100642416	0	0	-12.13092	RCVRN	0.829826533	26.66814555	0.031116769	-5.006164	FAT2	913.5332055	28.21410213	0.030884594	-5.016969
ATP6V0CP4	1.100642416	0	0	-12.13092	IL12B	0.829826533	26.66814555	0.031116769	-5.006164	C1QTNF7	161.7944352	4.9789592	0.030773365	-5.022174
MIR3605	1.100642416	0	0	-12.13092	CTIF	0.829826533	26.66814555	0.031116769	-5.006164	KCNJ3	53.9314784	1.659653067	0.030773365	-5.022174
ENSG000002	1.100642416	0	0	-12.13092	TRIM42	0.829826533	26.66814555	0.031116769	-5.006164	CD2	189.3104956	5.808785734	0.030683907	-5.026374
TAF11L5	1.100642416	0	0	-12.13092	ADGRG5	0.829826533	26.66814555	0.031116769	-5.006164	ACRP1	189.3104956	5.808785734	0.030683907	-5.026374
ENSG000002	1.100642416	0	0	-12.13092	CXCR5	0.829826533	26.66814555	0.031116769	-5.006164	KIAA1210	244.3426164	7.4684388	0.030565437	-5.031955
ENSG000002	1.100642416	0	0	-12.13092	OR13C8	0.829826533	26.66814555	0.031116769	-5.006164	POTEJ	162.8950776	4.9789592	0.030565437	-5.031955
ENSG000002	1.100642416	0	0	-12.13092	TOX4P1	0.829826533	26.66814555	0.031116769	-5.006164	GRPR	272.9593192	8.298265334	0.030401106	-5.039732
SSU72L1	1.100642416	0	0	-12.13092	NECTIN4	9.9579184	323.3512648	0.030795978	-5.021114	HSD11B1	55.03212081	1.659653067	0.030157898	-5.05132
LYNX1-SLUI	1.100642416	0	0	-12.13092	LRRC38	2.4894796	81.11560939	0.030690512	-5.026063	SAMD11	55.03212081	1.659653067	0.030157898	-5.05132
ENSG000002	1.100642416	0	0	-12.13092	SLC6A1	47.3001124	1547.863615	0.03055832	-5.032291	MZB1	27.51606041	0.829826533	0.030157898	-5.05132
ENSG000002	1.100642416	0	0	-12.13092	TMC1	7.4684388	244.4580009	0.03055101	-5.032636	PGM5	578.937911	17.4263572	0.030100563	-5.054066
ENSG000002	1.100642416	0	0	-12.13092	CCN3	55.59837774	1848.991425	0.03006957	-5.055552	IGLC2	1190.895094	35.68254093	0.029962791	-5.060684
ENSG000002	1.100642416	0	0	-12.13092	CFAP69	83.81247987	2792.377074	0.030014743	-5.058185	CLDN8	864.0042968	25.72462253	0.029773721	-5.069817
ENSG000002	1.100642416	0	0	-12.13092	PENK	4.149132667	138.8965914	0.029872099	-5.065058	HOXA10	167.2976473	4.9789592	0.029761083	-5.070429
ENSG000002	1.100642416	0	0	-12.13092	RAB11B-AS	1.659653067	55.55863657	0.029872099	-5.065058	IL7R	391.8287002	11.61757147	0.029649618	-5.075843
ENSG000002	1.100642416	0	0	-12.13092	BPIFB6	0.829826533	27.77931829	0.029872099	-5.065058	IL13RA2	112.2655265	3.319306133	0.029566566	-5.079889
ENSG000002	1.100642416	0	0	-12.13092	MIR493HG	0.829826533	27.77931829	0.029872099	-5.065058	IGKV4-1	253.1477557	7.4684388	0.029502291	-5.083029
SMIM41	1.100642416	0	0	-12.13092	SLC30A4	85.47213294	2871.270338	0.029768055	-5.070091	SLC7A3	57.23340565	1.659653067	0.028997979	-5.107904
ENSG000002	1.100642416	0	0	-12.13092	TFAP2D	0.829826533	28.89049102	0.028723172	-5.121641	TNFRSF14	28.61670282	0.829826533	0.028997979	-5.107904
LINC02359	1.100642416	0	0	-12.13092	SLC5A9	0.829826533	28.89049102	0.028723172	-5.121641	UGT1A5	28.61670282	0.829826533	0.028997979	-5.107904
ENSG000002	1.100642416	0	0	-12.13092	CBLIF	0.829826533	28.89049102	0.028723172	-5.121641	CXCL9	172.8008594	4.9789592	0.028813278	-5.117122
ENSG000002	1.100642416	0	0	-12.13092	NPFF	0.829826533	28.89049102	0.028723172	-5.121641	MYBPC1	782.556758	22.4053164	0.028630915	-5.126282
ENSG000002	1.100642416	0	0	-12.13092	AQP10	0.829826533	28.89049102	0.028723172	-5.121641	ZNF536	88.0513933	2.4894796	0.028273029	-5.14443
ENSG000002	1.100642416	0	0	-12.13092	PRAMEF20	0.829826533	28.89049102	0.028723172	-5.121641	BANK1	890.4197148	24.894796	0.027958496	-5.160569
ENSG000002	1.100642416	0	0	-12.13092	IGFBP6	35.68254093	1256.736359	0.02839302	-5.13832	CCDC60	29.71734524	0.829826533	0.027923979	-5.162352
ENSG000002	1.100642416	0	0	-12.13092	WNT16	4.149132667	146.6748005	0.028287972	-5.143667	IGKV1-33	29.71734524	0.829826533	0.027923979	-5.162352
ENSG000002	1.100642416	0	0	-12.13092	VSTM2L	7.4684388	264.4591101	0.028240429	-5.146094	NEFH	450.1627483	12.447398	0.027650884	-5.176531
ENSG000002	1.100642416	0	0	-12.13092	CCDC68	1.659653067	58.89215477	0.028181225	-5.149122	IRAG1	1145.768755	31.53340827	0.027521616	-5.183291
ENSG000002	1.100642416	0	0	-12.13092	ARHGAP6	66.38612267	2357.908536	0.028154664	-5.150482	TMEM130	60.5353329	1.659653067	0.027416271	-5.188824
ENSG000002	1.100642416	0	0	-12.13092	ADRB1	3.319306133	118.8954823	0.027917849	-5.162668	ITGB4	1397.815869	38.17202053	0.027308333	-5.194515
ENSG000002	1.100642416	0	0	-12.13092	FAM53A	1.659653067	60.0033275	0.027659351	-5.176089	CUX2	608.6552562	16.59653067	0.027267539	-5.196672
ENSG000002	1.100642416	0	0	-12.13092	SEC14L6	1.659653067	60.0033275	0.027659351	-5.176089	SIGLEC6	61.63597531	1.659653067	0.026926694	-5.214819
ENSG000002	1.100642416	0	0	-12.13092	ANGPTL7	0.829826533	30.00166375	0.027659351	-5.176089	LY9	62.73661773	1.659653067	0.026454296	-5.240354
ENSG000002	1.100642416	0	0	-12.13092	PCDHA9	0.829826533	30.00166375	0.027659351	-5.176089	CCDC68	62.73661773	1.659653067	0.026454296	-5.240354
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	30.00166375	0.027659351	-5.176089	ARHGEF38	1612.44114	42.3211532	0.026246634	-5.251724
ENSG000002	1.100642416	0	0	-12.13092	SLC45A3	24.06496947	876.7152851	0.027449013	-5.187102	LIPH	190.411138	4.9789592	0.026148466	-5.25713
ENSG000002	1.100642416	0	0	-12.13092	ZNF536	2.4894796	91.11616398	0.027322041	-5.193791	GATA3	351.1049308	9.128091867	0.025998188	-5.265445
ENSG000002	1.100642416	0	0	-12.13092	SHROOM1	91.28091867	3347.96344	0.02726461	-5.196827	FAIM2	95.75589022	2.4894796	0.025998188	-5.265445
ENSG000002	1.100642416	0	0	-12.13092	ACKR2	2.4894796	92.22733671	0.02699286	-5.211278	TRAJ19	31.91863007	0.829826533	0.025998188	-5.265445
ENSG000002	1.100642416	0	0	-12.13092	SLC22A7	0.829826533	31.11283648	0.026671517	-5.228556	DNALI1	258.6509678	6.638612267	0.025666296	-5.283981
ENSG000002	1.100642416	0	0	-12.13092	KPRP	0.829826533	31.11283648	0.026671517	-5.228556	ACTC1	33.01927249	0.829826533	0.025131581	-5.314355
ENSG000002	1.100642416	0	0	-12.13092	OR2M3	0.829826533	31.11283648	0.026671517	-5.228556	NFIX	5512.017221	137.7512045	0.024991069	-5.322444
ENSG000002	1.100642416	0	0	-12.13092	UGT1A5	0.829826533	31.11283648	0.026671517	-5.228556	KRT7	167.2976473	4.149132667	0.024800903	-5.333464
ENSG000002	1.100642416	0	0	-12.13092	SIDT1	14.10705107	531.1405656	0.02655992	-5.234605	MAOB	1116.05141	27.3842756	0.024536751	-5.348912
ENSG000002	1.100642416	0	0	-12.13092	CLU	469.6818179	17949.8843	0.026166287	-5.256147	ESR1	541.5160688	13.27722453	0.024518616	-5.349979
LINC02680	1.100642416	0	0	-12.13092	APCDD1	110.3669289	4259.12508	0.025913052	-5.270177	ENSG000002	68.23982981	1.659653067	0.024320885	-5.36166
ENSG000002	1.100642416	0	0	-12.13092	PLEKHN1	2.4894796	96.67202764	0.025751809	-5.279182	ITGA8	3644.22704	87.96161254	0.024137248	-5.372595
ENSG000002	1.100642416	0	0	-12.13092	TYR	0.829826533	32.22400921	0.025751809	-5.279182	SLC14A1	346.7023611	8.298265334	0.023934839	-5.384744
ENSG000002	1.100642416	0	0	-12.13092	CD7	0.829826533	32.22400921	0.025751809	-5.279182	BHMT2	104.5610295	2.4894796	0.023808867	-5.392357
ENSG000002	1.100642416	0	0	-12.13092	GOLGA6L3I	0.829826533	32.22400921	0.025751809	-5.279182	MOXD1	1853.481829	43.98080627	0.02372875	-5.39722
ENSG000002	1.100642416	0	0	-12.13092	THEM5	0.829826533	32.22400921	0.025751809	-5.279182	PDE11A	1298.758051	30.70358173	0.023640725	-5.402582
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	32.22400921	0.025751809	-5.279182	ADRB2	281.7644586	6.638612267	0.023560858	-5.407464
ENSG000002	1.100642416	0	0	-12.13092	LRRC31	3.319306133	130.0072096	0.025531708	-5.291566	POF1B	105.661672	2.4894796	0.023560858	-5.407464
ENSG000002	1.100642416	0	0	-12.13092	OR1I1	1.659653067	65.55919115	0.025315338	-5.303844	FGF10	70.44111464	1.659653067	0.023560858	-5.407464
ENSG000002	1.100642416	0	0	-12.13092	TFPI2	4.9789592	202.2334371	0.024619861	-5.344034	SURF1	35.22055732	0.829826533	0.023560858	-5.407464
ENSG000002	1.100642416	0	0	-12.13092	NEUROD6	2.4894796	101.1167186	0.024619861	-5.344034	PART1	35.22055732	0.829826533	0.023560858	-5.407464
LINC02858	1.100642416	0	0	-12.13092	BCAS1	4.149132667	170.0094279	0.024405309	-5.356661	CHRM1	177.203429	4.149132667	0.023414517	-5.416453
ENSG000002	1.100642416	0	0	-12.13092	TRPV6	9.9579184	411.1339106	0.02422062	-5.36762	ALDH1A3	2758.209895	63.06681654	0.022865126	-5.450707
ENSG000002	1.100642416	0	0	-12.13092	ATP1A2	69.7054288	2883.493238	0.024173953	-5.370403	RPS2	36.32119974	0.829826533	0.022846892	-5.451858
ENSG000002	1.100642416	0	0	-12.13092	GABRR1	0.829826533	34.44635467	0.024090402	-5.375398	GATA2	1967.94864	43.15097974	0.021926883	-5.511155
ENSG000002	1.100642416	0	0	-12.13092	CYP26A1	1.659653067	70.00388208	0.023708015	-5.398481	PGR	345.6017187	7.4684388	0.021609959	-5.53216
ENSG000002	1.100642416	0	0	-12.13092	RANBP3L	34.02288787	1457.858624	0.023337577	-5.421201	API5P2	38.52248457	0.829826533	0.021541355	-5.536747
ENSG000002	1.100642416	0	0	-12.13092	WNK4	18.25618373	796.7108484	0.022914441	-5.447599	HSPB6	465.5717421	9.9579184	0.02138858	-5.547015
ENSG000002	1.100642416	0	0	-12.13092	OR5AR1	0.829826533	36.66870014	0.022630378	-5.465596	COL15A1	3061.987202	64.7264696	0.021138713	-5.563969
ENSG000002	1.100642416	0	0	-12.13092	ACHE	7.4684388	330.0183012	0.022630378	-5.465596	IGHG2	314.7837311	6.638612267	0.021089439	-5.567335
CERNA2	1.100642416	0	0	-12.13092	UNC5C	11.61757147	520.0288383	0.022340245	-5.484211	TRAC	198.1156349	4.149132667	0.020942984	-5.577389
ENSG000002	1.100642416	0	0	-12.13092	EDN3	1.659653067	74.44857301	0.022292611	-5.487291	ECM2	39.62312699	0.829826533	0.020942984	-5.577389
ENSG000002	1.100642416	0	0	-12.13092	MAB21L3	0.829826533	37.77987287	0.021964778	-5.508664	ALOX15B	715.4175706	14.9368776	0.020878545	-5.581835
ENSG000002	1.100642416	0	0	-12.13092	RNF225	0.829826533	37.77987287	0.021964778	-5.508664	LRRC9	121.0706658	2.4894796	0.020562203	-5.603861
ENSG000002	1.100642416	0	0	-12.13092	PPP1R1B	1.659653067	76.67091847	0.021646448	-5.529726	TOX	202.5182046	4.149132667	0.020487702	-5.609098
ENSG000002	1.100642416	0	0	-12.13092	CYP3A5	2.4894796	115.5619641	0.021542379	-5.536679	IGLV3-1	40.7237694	0.829826533	0.020376958	-5.616918
ENSG000002	1.100642416	0	0	-12.13092	NXPE4	1.659653067	77.7820912	0.021337213	-5.550484	ARHGAP40	288.3683131	5.808785734	0.020143634	-5.633532

ENSG000002	1.100642416	0	0	-12.13092	KIF2B	0.829826533	38.8910456	0.021337213	-5.550484	HSPB8	82.54818122	1.659653067	0.020105265	-5.636283
ENSG000002	1.100642416	0	0	-12.13092	HS6ST3	0.829826533	38.8910456	0.021337213	-5.550484	FENDRR	41.82441182	0.829826533	0.019840722	-5.655392
ENSG000002	1.100642416	0	0	-12.13092	SLC3A1	3.319306133	158.8977006	0.020889579	-5.581073	IGKC	12529.71327	248.1181335	0.019802379	-5.658182
ENSG000002	1.100642416	0	0	-12.13092	VCX3A	1.659653067	80.00443666	0.020744513	-5.591126	ANO5	337.8972218	6.638612267	0.019646839	-5.669559
ENSG000002	1.100642416	0	0	-12.13092	ITGB4	38.17202053	1865.659016	0.020460341	-5.611026	NUDT10	425.9486151	8.298265334	0.019481846	-5.681726
ENSG000002	1.100642416	0	0	-12.13092	KLF18	2.4894796	122.2290005	0.02036734	-5.617599	PPP1R1B	85.85010847	1.659653067	0.019331986	-5.692866
ENSG000002	1.100642416	0	0	-12.13092	KCNG1	16.59653067	818.9343031	0.02026601	-5.624794	HDC	42.92505424	0.829826533	0.019331986	-5.692866
ENSG000002	1.100642416	0	0	-12.13092	SPACA1	0.829826533	41.11339106	0.02018385	-5.630655	TACSTD2	2857.267713	54.7685512	0.019168155	-5.705145
ENSG000002	1.100642416	0	0	-12.13092	ACY3	0.829826533	41.11339106	0.02018385	-5.630655	SERPINB3	129.8758051	2.4894796	0.019168155	-5.705145
ENSG000002	1.100642416	0	0	-12.13092	CLEC18A	0.829826533	41.11339106	0.02018385	-5.630655	MUC12	2189.177766	41.49132667	0.018952927	-5.721436
ENSG000002	1.100642416	0	0	-12.13092	PAPPA2	12.447398	626.7014205	0.019861768	-5.653862	SRARP	44.02569665	0.829826533	0.018848686	-5.729392
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	42.22456379	0.019652696	-5.669129	MYOCD	402.8351244	7.4684388	0.018539691	-5.753239
ENSG000002	1.100642416	0	0	-12.13092	TSPAN8	29.8737552	1534.529542	0.019467696	-5.682774	TBX4	179.4047139	3.319306133	0.018501778	-5.756192
ENSG000002	1.100642416	0	0	-12.13092	CPAMD8	51.44924507	2705.705601	0.019015094	-5.716711	P2RY10	45.12633907	0.829826533	0.018388962	-5.765016
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	2.4894796	131.1183823	0.018986503	-5.718882	CHRNA2	182.7066411	3.319306133	0.018167408	-5.782504
LINC00279	1.100642416	0	0	-12.13092	LRRTM1	25.72462253	1360.075423	0.018914115	-5.724393	PIP	137.580302	2.4894796	0.018094739	-5.788286
ENSG000002	1.100642416	0	0	-12.13092	RLN1	19.9158368	1060.058786	0.018787483	-5.734084	ABCC4	4496.124271	81.32300027	0.018087356	-5.788875
ENSG000002	1.100642416	0	0	-12.13092	RARRES2	2.4894796	134.4519005	0.018515764	-5.755102	TRGC2	183.8072835	3.319306133	0.018058621	-5.791168
ENSG000002	1.100642416	0	0	-12.13092	TMEM132C	21.57548987	1170.064886	0.018439567	-5.761051	SPINK1	138.6809445	2.4894796	0.01795113	-5.799782
ENSG000002	1.100642416	0	0	-12.13092	TMPRSS2	100.4090105	5446.96873	0.018433925	-5.761493	ARX	186.0085684	3.319306133	0.01784491	-5.808344
ENSG000002	1.100642416	0	0	-12.13092	OR13C2	0.829826533	45.55808199	0.018214694	-5.778753	CPA6	186.0085684	3.319306133	0.01784491	-5.808344
ENSG000002	1.100642416	0	0	-12.13092	ST6GALNAC	16.59653067	930.0515762	0.017844742	-5.808357	ADH1C	327.9914401	5.808785734	0.017710175	-5.819278
ENSG000002	1.100642416	0	0	-12.13092	STBD1	0.829826533	46.66925472	0.017781011	-5.813519	TPSB2	190.411138	3.319306133	0.017432311	-5.842092
ENSG000002	1.100642416	0	0	-12.13092	SLC22A6	0.829826533	46.66925472	0.017781011	-5.813519	CD27	48.42826632	0.829826533	0.017135169	-5.866896
ENSG000002	1.100642416	0	0	-12.13092	SYT15-AS1	0.829826533	46.66925472	0.017781011	-5.813519	WNK4	1078.629568	18.25618373	0.016925351	-5.88467
ENSG000002	1.100642416	0	0	-12.13092	RFX6	2.4894796	141.1189369	0.017641003	-5.824924	CPA3	446.860821	7.4684388	0.016713121	-5.902875
ENSG000002	1.100642416	0	0	-12.13092	TRIM49	4.149132667	237.7909645	0.017448656	-5.84074	KRT17	255.3490406	4.149132667	0.016248867	-5.943517
ENSG000002	1.100642416	0	0	-12.13092	RHBG	0.829826533	47.78042745	0.017367499	-5.847466	GPR88	103.4603871	1.659653067	0.016041435	-5.962053
ENSG000002	1.100642416	0	0	-12.13092	SLC22A8	1.659653067	96.67202764	0.017167873	-5.864145	TDRD1	1466.055699	23.23514293	0.015848745	-5.979488
ENSG000002	1.100642416	0	0	-12.13092	NRG3	24.894796	1465.636833	0.016985651	-5.87954	CPNE4	1277.845845	19.9158368	0.015585477	-6.003654
ENSG000002	1.100642416	0	0	-12.13092	OLAH	0.829826533	48.89160018	0.016972783	-5.880633	C1orf116	3310.732388	50.61941854	0.015289493	-6.031316
ENSG000002	1.100642416	0	0	-12.13092	ORM2	0.829826533	48.89160018	0.016972783	-5.880633	STEAP1	1150.171325	17.4263572	0.015151097	-6.044434
ENSG000002	1.100642416	0	0	-12.13092	MAPK10	45.64045934	2702.372083	0.016889036	-5.887769	CTSG	55.03212081	0.829826533	0.015078949	-6.05132
ENSG000002	1.100642416	0	0	-12.13092	UTS2B	5.808785734	345.5747195	0.016809059	-5.894617	GJB1	55.03212081	0.829826533	0.015078949	-6.05132
ENSG000002	1.100642416	0	0	-12.13092	NWD2	2.4894796	151.1194915	0.016473584	-5.923702	CD7	55.03212081	0.829826533	0.015078949	-6.05132
ENSG000002	1.100642416	0	0	-12.13092	OR4F28P	0.829826533	52.22511838	0.015889414	-5.97579	PRAC1	222.3297681	3.319306133	0.014929652	-6.065676
ENSG000002	1.100642416	0	0	-12.13092	SAMD11	1.659653067	105.5614095	0.015722157	-5.991057	SYNPO2	6556.526874	97.0897044	0.0148081	-6.07747
ENSG000002	1.100642416	0	0	-12.13092	PTN	33.19306133	2156.786272	0.015390056	-6.021858	EHF	2089.019306	30.70358173	0.014697606	-6.088275
ENSG000002	1.100642416	0	0	-12.13092	C3	18.25618373	1211.178277	0.015073077	-6.051882	SERHL	57.23340565	0.829826533	0.014498989	-6.107904
ENSG000002	1.100642416	0	0	-12.13092	ATP12A	8.298265334	551.1416748	0.015056501	-6.05347	HNF1B	115.5674537	1.659653067	0.014360904	-6.12171
ENSG000002	1.100642416	0	0	-12.13092	HOXA11-AS	1.659653067	113.3396186	0.014643186	-6.093627	ELF5	117.7687385	1.659653067	0.014092476	-6.148931
ENSG000002	1.100642416	0	0	-12.13092	CEMIP	151.8582556	10402.79911	0.014597826	-6.098103	FOXF1	238.8394043	3.319306133	0.013897649	-6.169015
ENSG000002	1.100642416	0	0	-12.13092	SCNN1D	3.319306133	232.2351009	0.01429287	-6.128561	ACSM3	418.2441182	5.808785734	0.013888505	-6.169965
ENSG000002	1.100642416	0	0	-12.13092	ANKRD29	3.319306133	248.9026918	0.013335758	-6.228556	POTEF	119.9700234	1.659653067	0.013833898	-6.175648
ENSG000002	1.100642416	0	0	-12.13092	DNAH8	43.98080627	3325.739985	0.013224367	-6.240658	VSTM2L	540.4154264	7.4684388	0.013819811	-6.177118
ENSG000002	1.100642416	0	0	-12.13092	CORIN	107.8774493	8158.230194	0.013223144	-6.240791	CREB3L1	2418.111389	33.19306133	0.013726854	-6.186855
ENSG000002	1.100642416	0	0	-12.13092	CRISP3	5.808785734	450.0249562	0.012907697	-6.275625	LMOD1	2797.833022	37.342194	0.013346827	-6.227359
PARTICL	1.100642416	0	0	-12.13092	AVPR1B	14.9368776	1168.953713	0.012777989	-6.290195	RARRES2	187.1092108	2.4894796	0.013304955	-6.231893
ENSG000002	1.100642416	0	0	-12.13092	CNTN3	6.638612267	523.3623565	0.012684543	-6.300785	CXCL6	62.73661773	0.829826533	0.013227148	-6.240354
ENSG000002	1.100642416	0	0	-12.13092	ISLR	0.829826533	65.55919115	0.012657669	-6.303844	CCL21	62.73661773	0.829826533	0.013227148	-6.240354
ENSG000002	1.100642416	0	0	-12.13092	HGD	16.59653067	1351.186041	0.012282935	-6.347201	FREM2	506.2955115	6.638612267	0.013112129	-6.252954
ENSG000002	1.100642416	0	0	-12.13092	IQCA1	5.808785734	474.4707563	0.012242663	-6.351939	TSPAN1	1218.411155	15.76670413	0.012940381	-6.271976
ENSG000002	1.100642416	0	0	-12.13092	HOXA9	0.829826533	67.78153662	0.012242663	-6.351939	FOLH1	1873.293393	24.06496947	0.012846343	-6.282498
ENSG000002	1.100642416	0	0	-12.13092	PDE11A	30.70358173	2532.362655	0.012124481	-6.365933	TPSAB1	392.9293426	4.9789592	0.012671386	-6.302282
ENSG000002	1.100642416	0	0	-12.13092	HOXA13	3.319306133	277.7931829	0.011948839	-6.386986	MFAP4	1710.398315	21.57548987	0.012614307	-6.308795
ENSG000002	1.100642416	0	0	-12.13092	NEFH	12.447398	1046.724713	0.011891759	-6.393894	IGHG1	1579.421867	19.9158368	0.012609574	-6.309337
ENSG000002	1.100642416	0	0	-12.13092	C8orf34	4.149132667	351.1305831	0.011816495	-6.403054	TMPRSS2	8061.105057	100.4090105	0.012455986	-6.327017
ENSG000002	1.100642416	0	0	-12.13092	NWD1	10.78774493	923.3845398	0.01168283	-6.419466	WFDC1	203.618847	2.4894796	0.012226175	-6.353883
ENSG000002	1.100642416	0	0	-12.13092	COL9A2	9.128091867	795.5996757	0.011473222	-6.445586	LRRTM3	136.4796596	1.659653067	0.012160443	-6.36166
ENSG000002	1.100642416	0	0	-12.13092	CEACAM20	3.319306133	291.1272556	0.011401564	-6.454624	CP	2942.017179	35.68254093	0.012128597	-6.365444
ENSG000002	1.100642416	0	0	-12.13092	GRIN2B	7.4684388	664.4812934	0.011239502	-6.475278	POTEH	432.5524696	4.9789592	0.011510648	-6.440887
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0.829826533	74.44857301	0.011146305	-6.487291	HOXA11-AS	144.1841565	1.659653067	0.011510648	-6.440887
ENSG000002	1.100642416	0	0	-12.13092	STEAP1	17.4263572	1623.423361	0.010734327	-6.541624	CD3E	146.3854414	1.659653067	0.011337556	-6.462747
ENSG000002	1.100642416	0	0	-12.13092	PRAC1	3.319306133	312.2395375	0.01063064	-6.555628	IGHGP	587.7430503	6.638612267	0.011295093	-6.46816
ENSG000002	1.100642416	0	0	-12.13092	SLC6A13	9.128091867	858.9365214	0.010627202	-6.556094	JCHAIN	523.9057902	5.808785734	0.011087462	-6.494927
ENSG000002	1.100642416	0	0	-12.13092	COL9A3	9.128091867	864.4923851	0.010558904	-6.565396	VGLL3	4801.00222	53.10889814	0.011062044	-6.498238
ENSG000002	1.100642416	0	0	-12.13092	TMEFF2	60.57733694	6122.56175	0.009894116	-6.659213	SERHL2	226.7323378	2.4894796	0.010979817	-6.509002
ENSG000002	1.100642416	0	0	-12.13092	SMCO3	1.659653067	167.7870824	0.009891423	-6.659606	NWD1	983.9743202	10.78774493	0.010963442	-6.511155
ENSG000002	1.100642416	0	0	-12.13092	SALL1	0.829826533	86.67147305	0.009574391	-6.706604	WNT2	77.04496914	0.829826533	0.010770678	-6.536747
ENSG000002	1.100642416	0	0	-12.13092	ALDH1L1	5.808785734	617.8120387	0.009402189	-6.732788	POTEE	324.6895128	3.319306133	0.010223016	-6.612035
ENSG000002	1.100642416	0	0	-12.13092	CLCA2	14.9368776	1625.645706	0.009188274	-6.76599	TNS4	408.3383364	4.149132667	0.010161017	-6.620811
ENSG000002	1.100642416	0	0	-12.13092	WNT2	0.829826533	92.22733671	0.00899762	-6.796241	AGR2	1910.715235	19.08601027	0.009988935	-6.645453
ENSG000002	1.100642416	0	0	-12.13092	ART3	2.4894796	277.7931829	0.00896163	-6.802023	SLC45A3	2454.432588	24.06496947	0.009804698	-6.672311
ENSG000002	1.100642416	0	0	-12.13092	WFIKKN2	2.4894796	285.571392	0.008717538	-6.841863	TMEFF2	6219.730295	60.57733694	0.009739544	-6.68193
ENSG000002	1.100642416	0	0	-12.13092	PRG4	5.808785734	666.7036389	0.008712695	-6.842665	UPK3A	85.85010847	0.829826533	0.009665993	-6.692866
ENSG000002	1.100642416	0	0	-12.13092	HMGCS2	6.638612267	791.1549848	0.008391039	-6.896935	COL28A1	947.6531204	9.128091867	0.009632313	-6.697902
ENSG000002	1.100642416	0	0	-12.13092	CYP4A22	0.829826533	98.8943731	0.008391039	-6.896935	SCUBE2	1660.869406	15.76670413	0.009493043	-6.718914
ENSG000002	1.100642416	0	0	-12.13092	CPA6	3.319306133	397.7998379	0.008344162	-6.905017	CYP4F8	351.1049308	3.319306133	0.009453886	-6.724877
ENSG000002	1.100642416	0	0	-12.13092	OSTN	2.4894796	300.0166375	0.008297805	-6.913055	C8orf34-AS1	91.35332055	0.829826533	0.009083704	-6.782504
ENSG000002	1.100642416	0	0	-12.13092	NKX3-1	9.9579184	1293.405059	0.007698994	-7.021114	MMP10	366.5139246	3.319306133	0.009056426	-6.786843
ENSG000002	1.100642416	0	0	-12.13092	GATA2	43.15097974	5640.312785	0.007650459	-7.030238	AQP3	1151.271967	9.9579184	0.008649493	-6.853169
ENSG000002	1.100642416	0	0	-12.13092	TACSTD2	54.7685512	7344.851755	0.007456727	-7.067242	PRSS21	96.85653263	0.829826533	0.008567585	-6.866896
ENSG000002	1.100642416	0	0	-12.13092	MARCO	0.829826533	113.3396186	0.007321593	-7.093627	RPL7P16	96.85653263	0.829826533	0.008567585	-6.866896
ENSG000002	1.100642416	0	0	-12.13092	PTGDR	2.4894796	342.2412013	0.00727405	-7.103025	ADRB1	396.2312699	3.319306133	0.008377194	-6.899317
ENSG000002	1.100642416	0	0	-12.13092	ESR1	13.27722453	1875.659571	0.007078696	-7.142301	IGLV2-11	101.2591023	0.829826533	0.008195081	-6.931026
ENSG000002	1.100642416	0	0	-12.13092	KLK2	8.298265334	1181.176614	0.007025423	-7.153199	DCDC2	1982.256992	15.76670413	0.007953915	-6.974119
ENSG000002	1.100642416	0	0	-12.13092	KL	9.9579184	1476.74856	0.006743137	-7.212364	PIGR	738.5310613	5.808785734	0.007865324	-6.990278
ENSG000002	1.100642416	0	0	-12.13092	HTR1F	4.149132667	625.5902478	0.006632349	-7.236264	PAMR1	424.8479727	3.319306133	0.007812927	-6.999921
ENSG000002	1.100642416	0	0	-12.13092	SLPI	32.3632348	4910.2723	0.006590925	-7.245303	FLNC	3590.295562	24.894796	0.006933913	-7.172115
ENSG000002	1.100642416	0	0	-12.13092	CWH43	3.319306133	510.0282837	0.006508082	-7.263552	ERP27	483.1820208	3.319306133	0.006869681	-7.185541
ENSG000002	1.100642416	0	0	-12.13092	DNASE1L3	6.638612267	1091.171622	0.00608393	-7.360781	OR51E1	847.4946605	5.808785734	0.006854068	-7.188824
ENSG000002	1.100642416	0	0	-12.13092	PIGR	5.808785734	957.8308945	0.006064521	-7.365391	AR	3435.104981	23.23514293	0.006764027	-7.207902
ENSG000002	1.100642416	0	0	-12.13092	OR51E1	5.808785734	1016.723049	0.005713243	-7.451474	CD3D	127.6745203	0.829826533	0.006499547	-7.265445
ENSG000002	1.100642416	0	0	-12.13092	ITIH2	8.298265334	1472.303869	0.005636245	-7.47105	CWH43	523.9057902	3.319306133	0.006335693	-7.302282
ENSG000002	1.100642416	0	0	-12.13092	TRH	0.829826533	153.3418369	0.005411612	-7.529726	MIR205HG	264.1541799	1.659653067	0.006282895	-7.314355
ENSG000002	1.100642416	0	0	-12.13092	SIM2	9.9579184	1893.438334	0.005259172	-7.570949	FAM3B	681.2976557	4.149132667	0.006090044	-7.359332
ENSG000002	1.100642416	0	0	-12.13092	AR	23.23514293	4479.13728	0.005187415	-7.590769	HOXA9	136.4796596	0.829826533	0.006080221	-7.36166
ENSG000002	1.100642416	0	0	-12.13092	PTGDS	0.829826533	160.0088733	0.005186128	-7.591126	IGHV3-23	410.5396213	2.4894796	0.00606392	-7.365533
ENSG000002	1.100642416	0	0	-12.13092	VTCN1	0.829826533	160.0088733	0.005186128	-7.591126	CNTN3	1097.340489	6.638612267	0.006049729	-7.368914
ENSG000002	1.100642416	0	0	-12.13092	TRPM3	34.02288787	6967.053026	0.004883397	-7.677899	ACP3	15842.64694	94.6002248	0.005971239	-7.387754
ENSG000002	1.100642416	0	0	-12.13092	STEAP2	16.59653067	3552.419222	0.004671895	-7.741776	MAB21L1	280.6638162	1.659653067	0.005913313	-7.401818

ENSG000002	1.100642416	0	0	-12.13092	NXPE1	4.9789592	1076.726377	0.004624164	-7.756592	IGHG3	283.9657434	1.659653067	0.005844554	-7.418691
ENSG000002	1.100642416	0	0	-12.13092	ARX	3.319306133	720.03993	0.004609892	-7.761051	AZGP1	3713.567513	19.08601027	0.005139535	-7.604146
ENSG000002	1.100642416	0	0	-12.13092	CPNE4	19.9158368	4361.352971	0.004566435	-7.774716	KRT5	522.8051477	2.4894796	0.004761773	-7.714285
ENSG000002	1.100642416	0	0	-12.13092	CTSE	2.4894796	598.9221022	0.0041566	-7.91038	NKX3-1	2422.513958	9.9579184	0.004110572	-7.926445
LINC02946	1.100642416	0	0	-12.13092	SHH	1.659653067	402.2445288	0.00412598	-7.921047	HOXB13	1073.126356	4.149132667	0.003866397	-8.014794
ENSG000002	1.100642416	0	0	-12.13092	AADAC	0.829826533	225.5680645	0.00367883	-8.086537	SPDEF	870.6081513	3.319306133	0.003812629	-8.034998
ENSG000002	1.100642416	0	0	-12.13092	RPL7P16	0.829826533	233.3462736	0.003556202	-8.135447	HOXA13	922.3383449	3.319306133	0.003598794	-8.118271
ENSG000002	1.100642416	0	0	-12.13092	B3GNT6	4.149132667	1203.400068	0.003447841	-8.180091	SIM2	3079.597481	9.9579184	0.003233513	-8.272682
ENSG000002	1.100642416	0	0	-12.13092	SPDEF	3.319306133	977.8320037	0.003394557	-8.202561	BCAS1	1390.111372	4.149132667	0.002984748	-8.388175
ENSG000002	1.100642416	0	0	-12.13092	GRIK1	4.9789592	1684.537861	0.002955683	-8.402293	CRISP3	1963.546071	5.808785734	0.002958314	-8.401009
ENSG000002	1.100642416	0	0	-12.13092	PLA2G2A	2.4894796	887.8270124	0.002804014	-8.478291	KLK4	3087.301978	9.128091867	0.002956657	-8.401818
ENSG000002	1.100642416	0	0	-12.13092	SLC6A4	4.149132667	1532.307197	0.002707768	-8.52868	MSMB	1156.77518	3.319306133	0.002869448	-8.445011
ENSG000002	1.100642416	0	0	-12.13092	DAB1	7.4684388	2759.041892	0.002706896	-8.529145	STEAP2	5956.676757	16.59653067	0.002786206	-8.487482
ENSG000002	1.100642416	0	0	-12.13092	MUC12	41.49132667	17870.99104	0.002321714	-8.750594	CNN1	2392.796613	6.638612267	0.002774416	-8.4936
ENSG000002	1.100642416	0	0	-12.13092	IL5RA	3.319306133	1478.970906	0.002244335	-8.799496	SALL1	305.9785917	0.829826533	0.002712041	-8.526405
ENSG000002	1.100642416	0	0	-12.13092	SLC13A4	2.4894796	1208.955932	0.002059198	-8.923702	C3	7161.880203	18.25618373	0.002549077	-8.615809
ENSG000002	1.100642416	0	0	-12.13092	ACP3	94.6002248	48943.8253	0.001932833	-9.015068	ST6GALNAC	709.9143585	1.659653067	0.002337822	-8.740619
ENSG000002	1.100642416	0	0	-12.13092	SUCNR1	9.9579184	5420.300584	0.001837152	-9.088313	OR51E2	1144.668113	1.659653067	0.001449899	-9.429832
ENSG000002	1.100642416	0	0	-12.13092	KLK4	9.128091867	7701.538202	0.00118523	-9.720618	KLK2	6087.653205	8.298265334	0.00136313	-9.518861
ENSG000002	1.100642416	0	0	-12.13092	OR51E2	1.659653067	1944.55228	8.53E-04	-10.19434	ACTG2	4841.725989	4.9789592	0.001028344	-9.925462
ENSG000002	1.100642416	0	0	-12.13092	KLK3	1.659653067	1957.886353	8.48E-04	-10.2042	DES	4983.708861	1.659653067	3.33E-04	-11.55212
ENSG000002	1.100642416	0	0	-12.13092	SCUBE2	15.76670413	20083.33595	7.85E-04	-10.3149	PLA2G2A	10027.95305	2.4894796	2.48E-04	-11.9759
ENSG000002	1.100642416	0	0	-12.13092	HOXB13	4.149132667	5472.525702	7.58E-04	-10.36518	KLK3	13130.66403	1.659653067	1.26E-04	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENPP6	0	724.4846209	0	-10.36518	NPY	2070.308385	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	GJB6	0	557.8087112	0	-10.36518	TRGJ1	848.595303	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FAM3D	0	256.680901	0	-10.36518	MYH11	782.556758	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PRAC2	0	201.1222644	0	-10.36518	IGHV6-1	354.406858	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MIR3185	0	153.3418369	0	-10.36518	TRGV9	324.6895128	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TFF1	0	134.4519005	0	-10.36518	HOXA11	298.2740948	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MAGEC1	0	128.8960368	0	-10.36518	TRGJ2	248.7451861	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OGN	0	115.5619641	0	-10.36518	ENSG000002	167.2976473	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	UPK1B	0	100.0055458	0	-10.36518	PAGE4	162.8950776	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	VSNL1	0	84.44912759	0	-10.36518	ADRA1A	160.6937928	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	NPY	0	81.11560939	0	-10.36518	TCF21	158.4925079	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	C4A	0	77.7820912	0	-10.36518	TRGV10	140.8822293	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	HOXA11	0	62.22567296	0	-10.36518	MYOC	127.6745203	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRGV9	0	56.6698093	0	-10.36518	DNAH8-AS1	122.1713082	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	VCX	0	55.55863657	0	-10.36518	FMR1NB	103.4603871	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OSTN-AS1	0	50.00277291	0	-10.36518	C4A	83.64882364	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR2C3	0	45.55808199	0	-10.36518	TBL1Y	74.84368431	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DNAH8-AS1	0	41.11339106	0	-10.36518	PCAT4	68.23982981	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IGLV3-25	0	38.8910456	0	-10.36518	KRT13	63.83726015	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LEXM	0	37.77987287	0	-10.36518	CLVS2	61.63597531	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CHRM2	0	37.77987287	0	-10.36518	GZMA	56.13276323	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR2D3	0	35.55752741	0	-10.36518	TRGC1	56.13276323	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRGV10	0	35.55752741	0	-10.36518	CCDC169	56.13276323	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PDHA2	0	33.33518194	0	-10.36518	SH3D19	52.83083598	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	A4GNT	0	32.22400921	0	-10.36518	SLC34A2	52.83083598	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	BTN2A1	0	31.11283648	0	-10.36518	FAM3D	52.83083598	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR9I1	0	31.11283648	0	-10.36518	IGHA2	52.83083598	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ANTXRL	0	31.11283648	0	-10.36518	OR51C1P	51.73019357	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CASQ1	0	30.00166375	0	-10.36518	TRBC1	51.73019357	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	VN1R3	0	30.00166375	0	-10.36518	TRAJ22	49.52890873	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	UGT1A4	0	30.00166375	0	-10.36518	OGN	48.42826632	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ADRA1A	0	28.89049102	0	-10.36518	TRAJ23	44.02569665	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR4C3	0	28.89049102	0	-10.36518	CD3G	42.92505424	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SIM1	0	27.77931829	0	-10.36518	VARS1	40.7237694	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TMEM139	0	27.77931829	0	-10.36518	ENSG000002	40.7237694	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PRR30	0	27.77931829	0	-10.36518	PRSS22	38.52248457	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	P2RX2	0	27.77931829	0	-10.36518	HOXA7	38.52248457	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OPN1MW	0	27.77931829	0	-10.36518	NRG4	38.52248457	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR51A2	0	26.66814555	0	-10.36518	ARHGEF34P	38.52248457	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FOLH1B	0	25.55697282	0	-10.36518	IGKV2D-30	38.52248457	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CLDN17	0	25.55697282	0	-10.36518	FAR2P4	37.42184215	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MRAP	0	25.55697282	0	-10.36518	SERTM2	36.32119974	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PGLYRP3	0	24.44580009	0	-10.36518	TRAJ12	34.11991491	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR10G8	0	24.44580009	0	-10.36518	ENSG000002	34.11991491	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	USP17L18	0	24.44580009	0	-10.36518	NDP	33.01927249	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MOGAT3	0	23.33462736	0	-10.36518	PHYHIP	31.91863007	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OPRPN	0	23.33462736	0	-10.36518	CST2	31.91863007	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR6C4	0	23.33462736	0	-10.36518	TRGJP2	31.91863007	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRGV11	0	23.33462736	0	-10.36518	ELN-AS1	31.91863007	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MCCC1-AS1	0	23.33462736	0	-10.36518	ENPP6	29.71734524	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.13092	LRRC52	0	22.22345463	0	-10.36518	PCAT14	28.61670282	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRIM49C	0	22.22345463	0	-10.36518	IGKV3-15	27.51606041	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	WFDC5	0	21.1122819	0	-10.36518	HOXA10-AS	27.51606041	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR6B3	0	21.1122819	0	-10.36518	XCL2	26.41541799	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DEFB125	0	21.1122819	0	-10.36518	BNC1	26.41541799	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR52E4	0	21.1122819	0	-10.36518	TRAV38-2D\	25.31477557	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PLAC9	0	21.1122819	0	-10.36518	ENSG000002	25.31477557	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	21.1122819	0	-10.36518	ASB2	24.21413316	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	RFPL1	0	20.00110917	0	-10.36518	MAGOH2P	24.21413316	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SPDYE1	0	20.00110917	0	-10.36518	GZMH	23.11349074	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IL1F10	0	20.00110917	0	-10.36518	BTN2A1	23.11349074	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SLC25A31	0	20.00110917	0	-10.36518	IGHV3-7	23.11349074	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	VPREB1	0	20.00110917	0	-10.36518	AACSP1	23.11349074	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR10H2	0	20.00110917	0	-10.36518	TRAJ11	22.01284833	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ZSCAN5C	0	20.00110917	0	-10.36518	TRGV3	20.91220591	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	HK2P1	0	20.00110917	0	-10.36518	PRR5-ARHG	20.91220591	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FLNC-AS1	0	20.00110917	0	-10.36518	ENSG000002	20.91220591	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	USP17L16P	0	20.00110917	0	-10.36518	GOT2P7	19.81156349	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR1D3P	0	20.00110917	0	-10.36518	ENSG000002	19.81156349	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TEX13A	0	20.00110917	0	-10.36518	PRRT1B	19.81156349	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	20.00110917	0	-10.36518	SSX1	18.71092108	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LINC02961	0	20.00110917	0	-10.36518	GOLGA8O	18.71092108	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	NOBOX	0	18.88993643	0	-10.36518	TRAJ40	18.71092108	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.13092	HTR1E	0	18.88993643	0	-10.36518	PRAC2	18.71092108	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	NRG4	0	18.88993643	0	-10.36518	VSNL1	17.61027866	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MIEF2	0	18.88993643	0	-10.36518	CFAP99	17.61027866	0	0	-12.94977

ENSG000002	1.100642416	0	0	-12.13092	DEFB119	0	18.88993643	0	-10.36518	IGKJ5	17.61027866	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DUSP21	0	18.88993643	0	-10.36518	ZNF680P1	17.61027866	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	18.88993643	0	-10.36518	IGKV2-30	17.61027866	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	HNRNPCP3	0	18.88993643	0	-10.36518	CCL17	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MYL10	0	17.7787637	0	-10.36518	SCRG1	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TPSG1	0	17.7787637	0	-10.36518	CXCR6	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR2T12	0	17.7787637	0	-10.36518	TRBC2	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR8K5	0	17.7787637	0	-10.36518	ENSG000002	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	S100A3	0	17.7787637	0	-10.36518	ENSG000002	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR5AC2	0	17.7787637	0	-10.36518	MIR3185	16.50963624	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	USP17L15	0	17.7787637	0	-10.36518	FGF14	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	AKR7A2P2	0	17.7787637	0	-10.36518	TRAJ31	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PNMA6F	0	17.7787637	0	-10.36518	TRAJ9	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	UGT1A8	0	17.7787637	0	-10.36518	TSSK1B	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CASP1P2	0	17.7787637	0	-10.36518	ENSG000002	15.40899383	0	0	-12.94977
ZNF75CP	1.100642416	0	0	-12.13092	ENSG000003	0	17.7787637	0	-10.36518	TRD-AS1	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	17.7787637	0	-10.36518	IGKV1D-39	15.40899383	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	17.7787637	0	-10.36518	OPRPN	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	17.7787637	0	-10.36518	CCL11	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LRIT1	0	16.66759097	0	-10.36518	FCER1A	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	GARIN3	0	16.66759097	0	-10.36518	MAGEB17	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	KLF17	0	16.66759097	0	-10.36518	XAGE1B	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MUC20	0	16.66759097	0	-10.36518	IGKJ3	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DNAJB8	0	16.66759097	0	-10.36518	TRAJ35	14.30835141	0	0	-12.94977
SNORA74C-2	1.100642416	0	0	-12.13092	TEX19	0	16.66759097	0	-10.36518	THRB-IT1	14.30835141	0	0	-12.94977
ELOA3BP	1.100642416	0	0	-12.13092	MAGEB17	0	16.66759097	0	-10.36518	HNRNPCP7	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR11L1	0	16.66759097	0	-10.36518	ENSG000002	14.30835141	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRAV3	0	16.66759097	0	-10.36518	MYOT	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRIM64EP	0	16.66759097	0	-10.36518	LEXM	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	16.66759097	0	-10.36518	MESP2	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IRGM	0	16.66759097	0	-10.36518	TRAV23DV6	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	16.66759097	0	-10.36518	TRAJ33	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	16.66759097	0	-10.36518	TRAJ3	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ASB15	0	15.55641824	0	-10.36518	IGHV3-15	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DDI1	0	15.55641824	0	-10.36518	SSX2	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR10H3	0	15.55641824	0	-10.36518	ENSG000002	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CNGA2	0	15.55641824	0	-10.36518	UGT1A4	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LCE3E	0	15.55641824	0	-10.36518	ENSG000002	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	GJB3	0	15.55641824	0	-10.36518	ENSG000002	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FABP5P3	0	15.55641824	0	-10.36518	ENSG000002	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR5M1	0	15.55641824	0	-10.36518	ANTXRLP1	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CA5AP1	0	15.55641824	0	-10.36518	IGKV1D-12	13.207709	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	15.55641824	0	-10.36518	UGT1A8	12.10706658	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	VSX1	0	14.44524551	0	-10.36518	ENSG000002	12.10706658	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FGF23	0	14.44524551	0	-10.36518	MTND5P5	12.10706658	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CCDC70	0	14.44524551	0	-10.36518	ERVV-1	12.10706658	0	0	-12.94977
SMANTIS	1.100642416	0	0	-12.13092	LACRT	0	14.44524551	0	-10.36518	ANTXRL	12.10706658	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	GH2	0	14.44524551	0	-10.36518	ENSG000002	12.10706658	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ASB10	0	14.44524551	0	-10.36518	LMAN1L	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CD3G	0	14.44524551	0	-10.36518	PRG3	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CABP2	0	14.44524551	0	-10.36518	P2RX2	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR10A2	0	14.44524551	0	-10.36518	IGLC7	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	KRT13	0	14.44524551	0	-10.36518	IGHV3-21	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRIML1	0	14.44524551	0	-10.36518	LINC01239	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MAGEB5	0	14.44524551	0	-10.36518	GTF2A1L	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SERPINA5	0	14.44524551	0	-10.36518	JMJD7	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR13G1	0	14.44524551	0	-10.36518	ENSG000002	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRAJ7	0	14.44524551	0	-10.36518	IGLV2-8	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	14.44524551	0	-10.36518	ENSG000002	11.00642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	14.44524551	0	-10.36518	APOBEC3H	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ALG1L3P	0	14.44524551	0	-10.36518	SLC25A2	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	14.44524551	0	-10.36518	GGTLC1	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ANO1-AS1	0	14.44524551	0	-10.36518	TFF1	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	14.44524551	0	-10.36518	LIPM	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SPDYE19P	0	14.44524551	0	-10.36518	SLC2A4	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	14.44524551	0	-10.36518	XAGE1A	9.905781747	0	0	-12.94977
LINC01530	1.100642416	0	0	-12.13092	TSPAN32	0	13.33407278	0	-10.36518	SERPINB11	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FNDC8	0	13.33407278	0	-10.36518	IGLV3-25	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FGF14	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ACTRT1	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	DCD	0	13.33407278	0	-10.36518	CEP250-AS1	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LCE1D	0	13.33407278	0	-10.36518	OCIAD1-AS1	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR5AP2	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CGB7	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	NEU4	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR4F1P	0	13.33407278	0	-10.36518	KRT88P	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ODF2-AS1	0	13.33407278	0	-10.36518	ENSG000002	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	13.33407278	0	-10.36518	AACSP1.1	9.905781747	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CLIC1P1	0	13.33407278	0	-10.36518	TPSG1	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ELN-AS1	0	13.33407278	0	-10.36518	RFPL1	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IGKV1D-17	0	13.33407278	0	-10.36518	DNMT3L	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MIR3661	0	13.33407278	0	-10.36518	CASQ1	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	13.33407278	0	-10.36518	SPINK7	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	13.33407278	0	-10.36518	CLDN14	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IL17F	0	12.22290005	0	-10.36518	NCBP2L	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CRNN	0	12.22290005	0	-10.36518	ACTA2-AS1	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ODF1	0	12.22290005	0	-10.36518	TRAJ49	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TBC1D21	0	12.22290005	0	-10.36518	TRAJ28	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR5AK2	0	12.22290005	0	-10.36518	STEAP2-AS1	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	LCE1E	0	12.22290005	0	-10.36518	DPP4-DT	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TMEM239	0	12.22290005	0	-10.36518	TRGVB	8.80513933	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.13092	NANOGNB	0	12.22290005	0	-10.36518	IGKV1-12	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENAHP1	0	12.22290005	0	-10.36518	OR5M1	8.80513933	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.13092	RPS15P5	0	12.22290005	0	-10.36518	MYZAP	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR5H3P	0	12.22290005	0	-10.36518	IGHV3-30	8.80513933	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PRB1	0	12.22290005	0	-10.36518	ENSG000002	8.80513933	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	12.22290005	0	-10.36518	ENSG000002	8.80513933	0	0	-12.94977

ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	12.22290005	0	-10.36518	LINC00506	8.80513933	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	MYOC	0	11.11172731	0	-10.36518	OR11H1	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	MYOM2	0	11.11172731	0	-10.36518	FOLH1B	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	GZMH	0	11.11172731	0	-10.36518	LACRT	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	OPN1SW	0	11.11172731	0	-10.36518	GLYAT	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	CSN2	0	11.11172731	0	-10.36518	FAM151A	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	SLC34A2	0	11.11172731	0	-10.36518	SUN3	7.704496914	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	C16orf78	0	11.11172731	0	-10.36518	PLA2G1B	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	FOXA3	0	11.11172731	0	-10.36518	OR5AN1	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	FRG2C	0	11.11172731	0	-10.36518	OR8K5	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	OR7D4	0	11.11172731	0	-10.36518	OR4A16	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	VN1R6P	0	11.11172731	0	-10.36518	PLAC9	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	FAM47DP	0	11.11172731	0	-10.36518	BTBD7P1	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	TMEM105	0	11.11172731	0	-10.36518	LRRC72	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PRSS38	0	11.11172731	0	-10.36518	TRAV8-3	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	OR4F5	0	11.11172731	0	-10.36518	TRDJ3	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	BTBD7P1	0	11.11172731	0	-10.36518	TRAJ16	7.704496914	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	HNRNPK-AS	0	11.11172731	0	-10.36518	ENSG000002	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	B3GALT1-A	0	11.11172731	0	-10.36518	ENSG000002	7.704496914	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	11.11172731	0	-10.36518	TRAV1-1	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	ZBTB32	0	10.00055458	0	-10.36518	CERS3-AS1	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	GATA1	0	10.00055458	0	-10.36518	ARLNC1	7.704496914	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	AVPR2	0	10.00055458	0	-10.36518	SEC22B2P	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PRDM12	0	10.00055458	0	-10.36518	LINC01297	7.704496914	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	SULT6B1	0	10.00055458	0	-10.36518	PMS2P2	7.704496914	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	IKBKE-AS1	0	10.00055458	0	-10.36518	ZBTB32	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PRSS37	0	10.00055458	0	-10.36518	TSPAN32	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	C10orf120	0	10.00055458	0	-10.36518	REC8	6.603854498	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	DLGAP2	0	10.00055458	0	-10.36518	CPZ	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	ENSG000001	0	10.00055458	0	-10.36518	IL26	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	TRAV8-1	0	10.00055458	0	-10.36518	SIM1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	TRAJ11	0	10.00055458	0	-10.36518	ANP32D	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	GAGE12G	0	10.00055458	0	-10.36518	TAAR2	6.603854498	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	PDE4DIPP1	0	10.00055458	0	-10.36518	ZG16B	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	LEF1-AS1	0	10.00055458	0	-10.36518	IL20	6.603854498	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	CRYBB2	0	10.00055458	0	-10.36518	OR10P1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PKD1P6	0	10.00055458	0	-10.36518	OR52N5	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	HOXA10-AS	0	10.00055458	0	-10.36518	ENPP7	6.603854498	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	10.00055458	0	-10.36518	LIPK	6.603854498	0	0	-12.94977	
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ENSG000002	1.100642416	0	0	-12.13092	ENSG000002	0	10.00055458	0	-10.36518	TRAV8-6	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	METTL21C	0	8.889381852	0	-10.36518	TRAJ45	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	H2BC1	0	8.889381852	0	-10.36518	YAP1P1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	ARHGAP36	0	8.889381852	0	-10.36518	UHRF2P1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	FATE1	0	8.889381852	0	-10.36518	RAET1E-AS1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	XAGE2	0	8.889381852	0	-10.36518	LINC02593	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PRG3	0	8.889381852	0	-10.36518	PDGFA-DT	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	KRT84	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	BMP10	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PPP1R14D	0	8.889381852	0	-10.36518	RNF224	6.603854498	0	0	-12.94977	
H2BN1	1.100642416	0	0	-12.13092	WFDC12	0	8.889381852	0	-10.36518	PIRT	6.603854498	0	0	-12.94977	
CST13P	1.100642416	0	0	-12.13092	PLA2G1B	0	8.889381852	0	-10.36518	THRAP3P3	6.603854498	0	0	-12.94977	
ASNSP1	1.100642416	0	0	-12.13092	SLC9C1	0	8.889381852	0	-10.36518	SUCLG2P2	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	OR4X2	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	ATOH1	0	8.889381852	0	-10.36518	ANOS2P	6.603854498	0	0	-12.94977	
CYP4F35P	1.100642416	0	0	-12.13092	OR4C5	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
AP1B1P1	1.100642416	0	0	-12.13092	CCL13	0	8.889381852	0	-10.36518	WDR86-AS1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	KRTAP21-2	0	8.889381852	0	-10.36518	H2AZ1-DT	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	OR6N1	0	8.889381852	0	-10.36518	LINC01252	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	ASB12	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
INTS4P1.1	1.100642416	0	0	-12.13092	GLT6D1	0	8.889381852	0	-10.36518	LINC02125	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	VARS1	0	8.889381852	0	-10.36518	ANKRD20A1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	C9orf57	0	8.889381852	0	-10.36518	INMT-MIND	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	SPDYC	0	8.889381852	0	-10.36518	CXADRP2	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PRSS1	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	IGKV2D-26	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	TRAJ23	0	8.889381852	0	-10.36518	DSG1-AS1	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	EEF1A1P16	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
FAM95B1	1.100642416	0	0	-12.13092	TAF9BP1	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	PKMP5	0	8.889381852	0	-10.36518	BALR6	6.603854498	0	0	-12.94977	
SLC25A51P4	1.100642416	0	0	-12.13092	TPT1P4	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	IGBP1-AS2	0	8.889381852	0	-10.36518	TRBV7-9	6.603854498	0	0	-12.94977	
ENSG000002	1.100642416	0	0	-12.13092	GSTA6P	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977	

ENSG000002	1.100642416	0	0	-12.13092	IFNA22P	0	8.889381852	0	-10.36518	RPS4Y2	6.603854498	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	IGKV1D-27	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PFDN1P1	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	RBMY1J	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977
CROCCP3	1.100642416	0	0	-12.13092	OR7E26P	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977
PRAMENP	1.100642416	0	0	-12.13092	BDH2P1	0	8.889381852	0	-10.36518	ENSG000002	6.603854498	0	0	-12.94977
RRN3P3	1.100642416	0	0	-12.13092	NUTM2HP	0	8.889381852	0	-10.36518	POU1F1	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	RNF224	0	8.889381852	0	-10.36518	C22orf31	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	IFNA8	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR7E109P	0	8.889381852	0	-10.36518	SOHLH2	5.503212081	0	0	-12.94977
PDE4DIPP4	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	LRAT	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TEX51	0	8.889381852	0	-10.36518	CSRP3	5.503212081	0	0	-12.94977
RAET1K	1.100642416	0	0	-12.13092	POU5F1P4	0	8.889381852	0	-10.36518	CLDN10	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	PPP1R35-AS	0	8.889381852	0	-10.36518	KRT85	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ZFAT-AS1	0	8.889381852	0	-10.36518	BCL2L10	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	CDRT15P1	5.503212081	0	0	-12.94977
OR7E47P	1.100642416	0	0	-12.13092	TMED7-TIC.	0	8.889381852	0	-10.36518	ZNF660	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	SHISAL2B	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR10G4	0	8.889381852	0	-10.36518	ANKRD22	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR4C9P	0	8.889381852	0	-10.36518	TEPP	5.503212081	0	0	-12.94977
UBE2Q2P1	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	DCD	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	KNCN	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	LRRC52	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	GNA15-DT	0	8.889381852	0	-10.36518	ZSWIM2	5.503212081	0	0	-12.94977
ALOX12P2.1	1.100642416	0	0	-12.13092	ENSG000003	0	8.889381852	0	-10.36518	ACER1	5.503212081	0	0	-12.94977
MPHOSPH10	1.100642416	0	0	-12.13092	TBC1D3E	0	8.889381852	0	-10.36518	HTR1E	5.503212081	0	0	-12.94977
BTN2A3P.1	1.100642416	0	0	-12.13092	OR8B3	0	8.889381852	0	-10.36518	OSCAR	5.503212081	0	0	-12.94977
LINC00888	1.100642416	0	0	-12.13092	GUCA2B	0	7.77820912	0	-10.36518	ATOH1	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TSPAN16	0	7.77820912	0	-10.36518	LINC02694	5.503212081	0	0	-12.94977
SIGLEC17P	1.100642416	0	0	-12.13092	GZMA	0	7.77820912	0	-10.36518	KCNJ10	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ANKRD22	0	7.77820912	0	-10.36518	C11orf42	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	CCDC42	0	7.77820912	0	-10.36518	DLSTP1	5.503212081	0	0	-12.94977
WASH2P	1.100642416	0	0	-12.13092	RTP3	0	7.77820912	0	-10.36518	OR8H3	5.503212081	0	0	-12.94977
FCGR1BP	1.100642416	0	0	-12.13092	OR10H4	0	7.77820912	0	-10.36518	LINC02724	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR2T34	0	7.77820912	0	-10.36518	CNGA2	5.503212081	0	0	-12.94977
C3P1.1	1.100642416	0	0	-12.13092	SPATA8	0	7.77820912	0	-10.36518	OR6C75	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR51I2	0	7.77820912	0	-10.36518	OR51I2	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	OR13D3P	0	7.77820912	0	-10.36518	IL17REL	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	FGF16	0	7.77820912	0	-10.36518	OR52K1	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	MIR433	0	7.77820912	0	-10.36518	ENSG000001	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TRAV7	0	7.77820912	0	-10.36518	ASB12	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ENSG000003	0	7.77820912	0	-10.36518	C1orf146	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ZNF402P	0	7.77820912	0	-10.36518	HSPA1A	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	ZNF735	0	7.77820912	0	-10.36518	IL31	5.503212081	0	0	-12.94977
ANKRD20A1	1.100642416	0	0	-12.13092	ENSG000003	0	7.77820912	0	-10.36518	OR6C3	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	RPL5P25	0	7.77820912	0	-10.36518	IGKV3D-11	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	TDGF1P3	0	7.77820912	0	-10.36518	TRGV11	5.503212081	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.13092	SIRPAP1	0	7.77820912	0	-10.36518	TRAV29DV5	5.503212081	0	0	-12.94977
IL3RA	1.100642416	0	0	-12.13092	ENSG000003	0	7.77820912	0	-10.36518	TRAJ44	5.503212081	0	0	-12.94977
P2RY8	1.100642416	0	0	-12.13092	SDHDP2	0	7.77820912	0	-10.36518	TRAJ5	5.503212081	0	0	-12.94977
PLCXD1	1.100642416	0	0	-12.13092	SLAMF6P1	0	7.77820912	0	-10.36518	UPF3AP2	5.503212081	0	0	-12.94977
SHOX	1.100642416	0	0	-12.13092	MYO5BP3	0	7.77820912	0	-10.36518	RPL21P65	5.503212081	0	0	-12.94977
					OR4F3	0	7.77820912	0	-10.36518	LINC01504	5.503212081	0	0	-12.94977
					BRI3P3	0	7.77820912	0	-10.36518	SNED1-AS1	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	P3H2-AS1	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					HNRNPA1P2	0	7.77820912	0	-10.36518	LINC01507	5.503212081	0	0	-12.94977
					ERVW-1	0	7.77820912	0	-10.36518	OR5K2	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	RPS7P3	5.503212081	0	0	-12.94977
					TMEM184C.	0	7.77820912	0	-10.36518	TRGV2	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	TMEM185AF	5.503212081	0	0	-12.94977
					SOX5P1	0	7.77820912	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					SPON1-AS1	0	7.77820912	0	-10.36518	UBE2L5	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	RETREG1-AS	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	LINC02198	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	GOLGA5P1	5.503212081	0	0	-12.94977
					MIR4730	0	7.77820912	0	-10.36518	FHIP1A-DT	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	ASB9P1	5.503212081	0	0	-12.94977
					UGT1A3	0	7.77820912	0	-10.36518	OR4C13	5.503212081	0	0	-12.94977
					ENSG000003	0	7.77820912	0	-10.36518	HNRNPCP3	5.503212081	0	0	-12.94977
					PCDHA6	0	6.667036389	0	-10.36518	IGHV3OR16-	5.503212081	0	0	-12.94977
					TBL1Y	0	6.667036389	0	-10.36518	ANP32BP1	5.503212081	0	0	-12.94977
					APOBEC3H	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					HAMP	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					PAEP	0	6.667036389	0	-10.36518	NDUFA7	5.503212081	0	0	-12.94977
					MYH11	0	6.667036389	0	-10.36518	CCDC121P1	5.503212081	0	0	-12.94977
					CDRT15P1	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					CTRL	0	6.667036389	0	-10.36518	TBC1D3D	5.503212081	0	0	-12.94977
					IGFBP1	0	6.667036389	0	-10.36518	CCL23	5.503212081	0	0	-12.94977
					GAL3ST2	0	6.667036389	0	-10.36518	TRBV10-3	5.503212081	0	0	-12.94977
					ATP13A2	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					FABP7	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					CCDC182	0	6.667036389	0	-10.36518	ASDURF	5.503212081	0	0	-12.94977
					C22orf15	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					ZG16	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					AQP7P2	0	6.667036389	0	-10.36518	ENSG000002	5.503212081	0	0	-12.94977
					URAD	0	6.667036389	0	-10.36518	H2BP1	5.503212081	0	0	-12.94977
					MRGPRX2	0	6.667036389	0	-10.36518	AZGP1P1	5.503212081	0	0	-12.94977
					OR7E31P	0	6.667036389	0	-10.36518	MYOM2	4.402569665	0	0	-12.94977
					CGB5	0	6.667036389	0	-10.36518	VSX1	4.402569665	0	0	-12.94977
					ENSG000001	0	6.667036389	0	-10.36518	HAMP	4.402569665	0	0	-12.94977
					OR7A11P	0	6.667036389	0	-10.36518	IL2	4.402569665	0	0	-12.94977
					BMP2KL	0	6.667036389	0	-10.36518	IL17F	4.402569665	0	0	-12.94977
					DEFB121	0	6.667036389	0	-10.36518	CDX1	4.402569665	0	0	-12.94977
					C1QTNF9B	0	6.667036389	0	-10.36518	LYZL1	4.402569665	0	0	-12.94977
					TRAJ9	0	6.667036389	0	-10.36518	SEMG2	4.402569665	0	0	-12.94977
					ENSG000003	0	6.667036389	0	-10.36518	FAM182A	4.402569665	0	0	-12.94977
					ENSG000003	0	6.667036389	0	-10.36518	OTOR	4.402569665	0	0	-12.94977

ENSG000002	0	6.667036389	0	-10.36518	SPDYE1	4.402569665	0	0	-12.94977
NF1P6	0	6.667036389	0	-10.36518	IL36A	4.402569665	0	0	-12.94977
BCRP1	0	6.667036389	0	-10.36518	RBP5	4.402569665	0	0	-12.94977
AIFM1P1	0	6.667036389	0	-10.36518	FABP2	4.402569665	0	0	-12.94977
DEFB131B	0	6.667036389	0	-10.36518	ASB15	4.402569665	0	0	-12.94977
C5orf67	0	6.667036389	0	-10.36518	ARHGAP36	4.402569665	0	0	-12.94977
PHF2P2	0	6.667036389	0	-10.36518	LRIT1	4.402569665	0	0	-12.94977
SALL1P1	0	6.667036389	0	-10.36518	PGLYRP3	4.402569665	0	0	-12.94977
TUBB4AP1	0	6.667036389	0	-10.36518	NPY5R	4.402569665	0	0	-12.94977
SLC25A38P1	0	6.667036389	0	-10.36518	CALHM4	4.402569665	0	0	-12.94977
IGHV4-31	0	6.667036389	0	-10.36518	IL22RA2	4.402569665	0	0	-12.94977
OR5K2	0	6.667036389	0	-10.36518	HSPB3	4.402569665	0	0	-12.94977
USH2A-AS2	0	6.667036389	0	-10.36518	SPRR1A	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	PLAC1	4.402569665	0	0	-12.94977
EIF4A1P2	0	6.667036389	0	-10.36518	SOSTDC1	4.402569665	0	0	-12.94977
CHCHD2P8	0	6.667036389	0	-10.36518	OR10H3	4.402569665	0	0	-12.94977
LINC00957	0	6.667036389	0	-10.36518	LY6H	4.402569665	0	0	-12.94977
PPP1R26P1	0	6.667036389	0	-10.36518	TPRX1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	FAM133A	4.402569665	0	0	-12.94977
EZRP1	0	6.667036389	0	-10.36518	DNAJB8	4.402569665	0	0	-12.94977
WDR86-AS1	0	6.667036389	0	-10.36518	NKX2-6	4.402569665	0	0	-12.94977
CBX3P3	0	6.667036389	0	-10.36518	GPR62	4.402569665	0	0	-12.94977
AACSP1	0	6.667036389	0	-10.36518	CTAGE10P	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	GPATCH11P	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	CTAG1B	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	KRT6B	4.402569665	0	0	-12.94977
ANTXRLP1	0	6.667036389	0	-10.36518	GJB3	4.402569665	0	0	-12.94977
MAGOH2P	0	6.667036389	0	-10.36518	TNRC18P3	4.402569665	0	0	-12.94977
OR4K8P	0	6.667036389	0	-10.36518	OR13G1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	OR11L1	4.402569665	0	0	-12.94977
PDLIM1P1	0	6.667036389	0	-10.36518	SNORA62	4.402569665	0	0	-12.94977
KRT8P47	0	6.667036389	0	-10.36518	LIPJ	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	GAGE1	4.402569665	0	0	-12.94977
RN7SL726P	0	6.667036389	0	-10.36518	OR5K3	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	IGKJ1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	IGLV3-12	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	TRAJ27	4.402569665	0	0	-12.94977
IGHV1OR21	0	6.667036389	0	-10.36518	MT1P1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	SLC9B1P2	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	POLR3DP1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	RPSAP6	4.402569665	0	0	-12.94977
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ENSG000002	0	6.667036389	0	-10.36518	ACTG1P3	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	CROCCP2	4.402569665	0	0	-12.94977
TMEM247	0	6.667036389	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	EFCAB6-AS1	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	ASS1P2	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG000002	0	6.667036389	0	-10.36518	SIRPAP1	4.402569665	0	0	-12.94977
UBE2Q2P13	0	6.667036389	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
PRSS22	0	5.555863657	0	-10.36518	KCNIP2-AS1	4.402569665	0	0	-12.94977
NRIP2	0	5.555863657	0	-10.36518	FGF13-AS1	4.402569665	0	0	-12.94977
DRD4	0	5.555863657	0	-10.36518	RPS17P8	4.402569665	0	0	-12.94977
LRAT	0	5.555863657	0	-10.36518	AGKP1	4.402569665	0	0	-12.94977
GNGT1	0	5.555863657	0	-10.36518	H2BP6	4.402569665	0	0	-12.94977
PRRG3	0	5.555863657	0	-10.36518	LINC02936	4.402569665	0	0	-12.94977
KRT85	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
GLYAT	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
CD300LG	0	5.555863657	0	-10.36518	PPP1R12BP1	4.402569665	0	0	-12.94977
LCE3D	0	5.555863657	0	-10.36518	LYPD9P	4.402569665	0	0	-12.94977
CLRN1	0	5.555863657	0	-10.36518	AK3P3	4.402569665	0	0	-12.94977
OSCAR	0	5.555863657	0	-10.36518	TRBV5-4	4.402569665	0	0	-12.94977
NCBP2L	0	5.555863657	0	-10.36518	BANF1P2	4.402569665	0	0	-12.94977
OR5B2	0	5.555863657	0	-10.36518	RPL7P21	4.402569665	0	0	-12.94977
MRGPRD	0	5.555863657	0	-10.36518	ABCA9-AS1	4.402569665	0	0	-12.94977
OR5AN1	0	5.555863657	0	-10.36518	FAAHP1	4.402569665	0	0	-12.94977
FTMT	0	5.555863657	0	-10.36518	VPS51P2	4.402569665	0	0	-12.94977
LIPF	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
CAV3	0	5.555863657	0	-10.36518	IQCA1-AS1	4.402569665	0	0	-12.94977
IQCF2	0	5.555863657	0	-10.36518	ERICH3-AS1	4.402569665	0	0	-12.94977
CHCHD2P9	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
LCE2C	0	5.555863657	0	-10.36518	PPIAL4G	4.402569665	0	0	-12.94977
DPPA3	0	5.555863657	0	-10.36518	ARL5AP2	4.402569665	0	0	-12.94977
OR6C75	0	5.555863657	0	-10.36518	RPS3AP29	4.402569665	0	0	-12.94977
IL17REL	0	5.555863657	0	-10.36518	EEF1A1P31	4.402569665	0	0	-12.94977
DCAF8L2	0	5.555863657	0	-10.36518	RPL23AP32	4.402569665	0	0	-12.94977
KRT35	0	5.555863657	0	-10.36518	RPL21P48	4.402569665	0	0	-12.94977
VN1R5	0	5.555863657	0	-10.36518	LINC01550	4.402569665	0	0	-12.94977
OR1F2P	0	5.555863657	0	-10.36518	RGMB-AS1	4.402569665	0	0	-12.94977
GRXCR2	0	5.555863657	0	-10.36518	SDCBPP2	4.402569665	0	0	-12.94977
LRRC72	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
TRAJ39	0	5.555863657	0	-10.36518	C1QTNF7-AS	4.402569665	0	0	-12.94977
ENSG000002	0	5.555863657	0	-10.36518	USP17L14P	4.402569665	0	0	-12.94977
PRDX1P1	0	5.555863657	0	-10.36518	USP17L18	4.402569665	0	0	-12.94977
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ENSG000002	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
DKKL1P1	0	5.555863657	0	-10.36518	IGHV3-62	4.402569665	0	0	-12.94977
PIMREGP2	0	5.555863657	0	-10.36518	CYCSP23	4.402569665	0	0	-12.94977
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METTL15P3	0	5.555863657	0	-10.36518	SRI-AS1	4.402569665	0	0	-12.94977
ATP13A4-AS	0	5.555863657	0	-10.36518	TPM4P3	4.402569665	0	0	-12.94977
USP8P2	0	5.555863657	0	-10.36518	CHKB-CPT1I	4.402569665	0	0	-12.94977
SLC6A6P1	0	5.555863657	0	-10.36518	CD44-AS1	4.402569665	0	0	-12.94977
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B3GALNT1F	0	5.555863657	0	-10.36518	SF3B4P1	4.402569665	0	0	-12.94977
EZR-AS1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG000002	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG000002	0	5.555863657	0	-10.36518	HNRNPA1P5	4.402569665	0	0	-12.94977

ENSG00000	0	5.555863657	0	-10.36518	HEATR3-AS1	4.402569665	0	0	-12.94977
MYB-AS1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ZNF593OS	0	5.555863657	0	-10.36518	LINC02166	4.402569665	0	0	-12.94977
ENSG00000	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
KRTAP13-3	0	5.555863657	0	-10.36518	SMG1P7	4.402569665	0	0	-12.94977
CSP2	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
RPS3AP49	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
FAM86LP	0	5.555863657	0	-10.36518	MIR4802	4.402569665	0	0	-12.94977
ST13P12	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
OR5H5P	0	5.555863657	0	-10.36518	MIR3918	4.402569665	0	0	-12.94977
KRT8P31	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
TRIM60P14	0	5.555863657	0	-10.36518	MIR3671	4.402569665	0	0	-12.94977
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TRBV6-8	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
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LOXL2-AS1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ALG1L10P	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
IGHEP2	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
PKMP4	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ENSG00000	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
ANKRD33B	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
CCND2-AS1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
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C20orf141	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
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ENSG00000	0	5.555863657	0	-10.36518	CCAT2	4.402569665	0	0	-12.94977
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RAET1E-AS	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
CT45A3	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
FKBP1AP1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
GPR32P1	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
OSTCP3	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
MKI67P1	0	5.555863657	0	-10.36518	HSD17B7P2	4.402569665	0	0	-12.94977
KLC4-AS1	0	5.555863657	0	-10.36518	UBE2Q2P13.	4.402569665	0	0	-12.94977
MIR6813	0	5.555863657	0	-10.36518	ENSG000002	4.402569665	0	0	-12.94977
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MIR6780B	0	5.555863657	0	-10.36518	WNT8A	3.301927249	0	0	-12.94977
ENSG00000	0	5.555863657	0	-10.36518	TUBA3D	3.301927249	0	0	-12.94977
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PCAT14	0	5.555863657	0	-10.36518	TCL1A	3.301927249	0	0	-12.94977
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ENSG00000	0	5.555863657	0	-10.36518	OPN1SW	3.301927249	0	0	-12.94977
ENSG00000	0	5.555863657	0	-10.36518	TSPAN16	3.301927249	0	0	-12.94977
ENSG00000	0	5.555863657	0	-10.36518	GMFG	3.301927249	0	0	-12.94977
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ENSG00000	0	5.555863657	0	-10.36518	GPR45	3.301927249	0	0	-12.94977
CEACAM21	0	4.444690926	0	-10.36518	SULT6B1	3.301927249	0	0	-12.94977
POU1F1	0	4.444690926	0	-10.36518	METTL21C	3.301927249	0	0	-12.94977
REC8	0	4.444690926	0	-10.36518	MMEL1	3.301927249	0	0	-12.94977
ADAM2	0	4.444690926	0	-10.36518	BHMT	3.301927249	0	0	-12.94977
GPR31	0	4.444690926	0	-10.36518	LINC01558	3.301927249	0	0	-12.94977
LYZL1	0	4.444690926	0	-10.36518	IFNK	3.301927249	0	0	-12.94977
GTSF1L	0	4.444690926	0	-10.36518	OOSP2	3.301927249	0	0	-12.94977
APOBEC2	0	4.444690926	0	-10.36518	MAGED4	3.301927249	0	0	-12.94977
CSRP3	0	4.444690926	0	-10.36518	CCDC144BP	3.301927249	0	0	-12.94977
CLPS	0	4.444690926	0	-10.36518	CLEC18C	3.301927249	0	0	-12.94977
OR1E3	0	4.444690926	0	-10.36518	APOA2	3.301927249	0	0	-12.94977
OR5C1	0	4.444690926	0	-10.36518	COX6B2	3.301927249	0	0	-12.94977
UNC93B2	0	4.444690926	0	-10.36518	CYP3A7	3.301927249	0	0	-12.94977
GNG3	0	4.444690926	0	-10.36518	AQP5	3.301927249	0	0	-12.94977
FAM151A	0	4.444690926	0	-10.36518	UNCX	3.301927249	0	0	-12.94977
ZSWIM2	0	4.444690926	0	-10.36518	OR4D5	3.301927249	0	0	-12.94977
WFDC13	0	4.444690926	0	-10.36518	OR5B2	3.301927249	0	0	-12.94977
ACTRT2	0	4.444690926	0	-10.36518	MOS	3.301927249	0	0	-12.94977
CXCR6	0	4.444690926	0	-10.36518	SAA1	3.301927249	0	0	-12.94977
INSL5	0	4.444690926	0	-10.36518	FAM47DP	3.301927249	0	0	-12.94977
OR9G1	0	4.444690926	0	-10.36518	CST6	3.301927249	0	0	-12.94977
DLSTP1	0	4.444690926	0	-10.36518	OR4C5	3.301927249	0	0	-12.94977
OR6S1	0	4.444690926	0	-10.36518	OR4F17	3.301927249	0	0	-12.94977
SH2D7	0	4.444690926	0	-10.36518	MAGEB18	3.301927249	0	0	-12.94977
KRTAP8-1	0	4.444690926	0	-10.36518	MUC20	3.301927249	0	0	-12.94977
GOLGA6L4	0	4.444690926	0	-10.36518	OR2T12	3.301927249	0	0	-12.94977
TAFA3	0	4.444690926	0	-10.36518	LINC02904	3.301927249	0	0	-12.94977
KRT16	0	4.444690926	0	-10.36518	MBOAT4	3.301927249	0	0	-12.94977
KRTAP15-1	0	4.444690926	0	-10.36518	TMEM78	3.301927249	0	0	-12.94977
MESP2	0	4.444690926	0	-10.36518	OR6C4	3.301927249	0	0	-12.94977
BSPH1	0	4.444690926	0	-10.36518	OR5AK2	3.301927249	0	0	-12.94977
GOLGA8M	0	4.444690926	0	-10.36518	VCX	3.301927249	0	0	-12.94977
OR10S1	0	4.444690926	0	-10.36518	TAFA1	3.301927249	0	0	-12.94977
OR52K1	0	4.444690926	0	-10.36518	GOLGA6L4	3.301927249	0	0	-12.94977
SSXP1	0	4.444690926	0	-10.36518	MAGED4B	3.301927249	0	0	-12.94977
OR51C1P	0	4.444690926	0	-10.36518	SERPINA5	3.301927249	0	0	-12.94977
OR6K3	0	4.444690926	0	-10.36518	IGFL3	3.301927249	0	0	-12.94977
ENSG00000	0	4.444690926	0	-10.36518	GLRA4	3.301927249	0	0	-12.94977
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IGLV3-22	0	4.444690926	0	-10.36518	BECN2	3.301927249	0	0	-12.94977
TRGV3	0	4.444690926	0	-10.36518	OR5AC2	3.301927249	0	0	-12.94977
TRAJ40	0	4.444690926	0	-10.36518	KRT35	3.301927249	0	0	-12.94977
TRAJ13	0	4.444690926	0	-10.36518	CFD	3.301927249	0	0	-12.94977

YWHAZP4	0	4.444690926	0	-10.36518	OR5B17	3.301927249	0	0	-12.94977
RPL32P10	0	4.444690926	0	-10.36518	ENSG000001	3.301927249	0	0	-12.94977
PPIAP16	0	4.444690926	0	-10.36518	RNU4-82P	3.301927249	0	0	-12.94977
LDHAP5	0	4.444690926	0	-10.36518	Y_RNA.2	3.301927249	0	0	-12.94977
RPL7AP50	0	4.444690926	0	-10.36518	Y_RNA.50	3.301927249	0	0	-12.94977
PPIAP23	0	4.444690926	0	-10.36518	GJE1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	OR6K3	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	SPANXN5	3.301927249	0	0	-12.94977
ZNF859P	0	4.444690926	0	-10.36518	GRXCR2	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	HNRNPA1P2	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	ONECUT3	3.301927249	0	0	-12.94977
OR1C1	0	4.444690926	0	-10.36518	DAZ2	3.301927249	0	0	-12.94977
IGLV9-49	0	4.444690926	0	-10.36518	LINC03069	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	MIR149	3.301927249	0	0	-12.94977
SRSF3P4	0	4.444690926	0	-10.36518	MIR181B2	3.301927249	0	0	-12.94977
TUBB8P6	0	4.444690926	0	-10.36518	IGKV3D-20	3.301927249	0	0	-12.94977
SHMT1P1	0	4.444690926	0	-10.36518	IGLV3-16	3.301927249	0	0	-12.94977
ARL14EPP1	0	4.444690926	0	-10.36518	IGLV3-10	3.301927249	0	0	-12.94977
MRPL36P1	0	4.444690926	0	-10.36518	IGLV3-9	3.301927249	0	0	-12.94977
GRPEL2P2	0	4.444690926	0	-10.36518	IGLJ2	3.301927249	0	0	-12.94977
PPIAP37	0	4.444690926	0	-10.36518	TRAV5	3.301927249	0	0	-12.94977
ADIPOQ-AS	0	4.444690926	0	-10.36518	TRAV8-1	3.301927249	0	0	-12.94977
SFR1P1	0	4.444690926	0	-10.36518	TRAV9-1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	TRAV14DV4	3.301927249	0	0	-12.94977
TRGV5P	0	4.444690926	0	-10.36518	TRAV18	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	TRAV34	3.301927249	0	0	-12.94977
GK3	0	4.444690926	0	-10.36518	TRDJ1	3.301927249	0	0	-12.94977
IGKV1OR22	0	4.444690926	0	-10.36518	TRAJ53	3.301927249	0	0	-12.94977
CCT5P2	0	4.444690926	0	-10.36518	TRAJ39	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	TRAJ38	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	TRAJ20	3.301927249	0	0	-12.94977
PSMC1P3	0	4.444690926	0	-10.36518	TRAJ17	3.301927249	0	0	-12.94977
SALL4P6	0	4.444690926	0	-10.36518	TRAJ10	3.301927249	0	0	-12.94977
RPL15P22	0	4.444690926	0	-10.36518	TRAJ4	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	IGHV1-18	3.301927249	0	0	-12.94977
PPIAP35	0	4.444690926	0	-10.36518	IGHV4-28	3.301927249	0	0	-12.94977
OR4F14P	0	4.444690926	0	-10.36518	EEF1A1P16	3.301927249	0	0	-12.94977
DEFB130D	0	4.444690926	0	-10.36518	TAF9BP1	3.301927249	0	0	-12.94977
DDX3P1	0	4.444690926	0	-10.36518	IRF9	3.301927249	0	0	-12.94977
OR5H15	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	RPL39P5	3.301927249	0	0	-12.94977
CHTF8P1	0	4.444690926	0	-10.36518	RPS3AP36	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	C16orf90	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	YWHAZP6	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	TMCO5B	3.301927249	0	0	-12.94977
MFRP	0	4.444690926	0	-10.36518	DDX18P3	3.301927249	0	0	-12.94977
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BZW1P1	0	4.444690926	0	-10.36518	HSPE1P26	3.301927249	0	0	-12.94977
CYP2F2P	0	4.444690926	0	-10.36518	OR1C1	3.301927249	0	0	-12.94977
RAD21P1	0	4.444690926	0	-10.36518	PSMB11	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	USP17L15	3.301927249	0	0	-12.94977
HLTF-AS1	0	4.444690926	0	-10.36518	ZNF735	3.301927249	0	0	-12.94977
TRBV25OR9	0	4.444690926	0	-10.36518	RBM48P1	3.301927249	0	0	-12.94977
KLF7P1	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SPRR2A	0	4.444690926	0	-10.36518	SRSF3P4	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	SRIP2	3.301927249	0	0	-12.94977
EVA1CP3	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SDHDP3	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
TNXA	0	4.444690926	0	-10.36518	IGKV1D-27	3.301927249	0	0	-12.94977
LINC01095	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
UNC93B8	0	4.444690926	0	-10.36518	RPL35AP36	3.301927249	0	0	-12.94977
CCT6P2	0	4.444690926	0	-10.36518	TACC1P1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	LARGE-AS1	3.301927249	0	0	-12.94977
CCNO-DT	0	4.444690926	0	-10.36518	PRPF38AP1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
PRXL2AP2	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
TPM4P3	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
PPIAP43	0	4.444690926	0	-10.36518	RPL21P90	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	BUB3P1	3.301927249	0	0	-12.94977
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MRPS35-DT	0	4.444690926	0	-10.36518	MRPS18CP6	3.301927249	0	0	-12.94977
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OR6C73P	0	4.444690926	0	-10.36518	PIN1P1	3.301927249	0	0	-12.94977
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ENSG000002	0	4.444690926	0	-10.36518	ME2P1	3.301927249	0	0	-12.94977
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CAMTA2-AS	0	4.444690926	0	-10.36518	RPS27AP5	3.301927249	0	0	-12.94977
LINC01925	0	4.444690926	0	-10.36518	DBIL5P	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	MAP1LC3BP	3.301927249	0	0	-12.94977
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ENSG000002	0	4.444690926	0	-10.36518	HNRNPA1P9	3.301927249	0	0	-12.94977
FDX2	0	4.444690926	0	-10.36518	LEF1-AS1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	MTCO3P2	3.301927249	0	0	-12.94977
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MOB4P2	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
GRIFIN	0	4.444690926	0	-10.36518	DLGAP4-AS1	3.301927249	0	0	-12.94977
ENSG000002	0	4.444690926	0	-10.36518	UBE2E2-DT	3.301927249	0	0	-12.94977
MIR6757	0	4.444690926	0	-10.36518	CYP2T1P	3.301927249	0	0	-12.94977
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ENSG000002	0	4.444690926	0	-10.36518	SAPCD2P4	3.301927249	0	0	-12.94977
RN7SKP23	0	4.444690926	0	-10.36518	CCT6P3	3.301927249	0	0	-12.94977
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ENSG000002	0	4.444690926	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ITIH4	0	3.333518194	0	-10.36518	LINC00957	3.301927249	0	0	-12.94977

LGALS13	0	3.333518194	0	-10.36518	SNX19P2	3.301927249	0	0	-12.94977
CRYBA1	0	3.333518194	0	-10.36518	MED13P1	3.301927249	0	0	-12.94977
SMR3A	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
TCF21	0	3.333518194	0	-10.36518	OR10G9	3.301927249	0	0	-12.94977
FAM182A	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SIRPD	0	3.333518194	0	-10.36518	PTP4A1P7	3.301927249	0	0	-12.94977
SSX1	0	3.333518194	0	-10.36518	RAC1P4	3.301927249	0	0	-12.94977
TAS2R16	0	3.333518194	0	-10.36518	EIF4HP2	3.301927249	0	0	-12.94977
PKD1L1-AS	0	3.333518194	0	-10.36518	RAD21P1	3.301927249	0	0	-12.94977
ARHGAP17	0	3.333518194	0	-10.36518	GOLM2P1	3.301927249	0	0	-12.94977
GPR32	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ECE2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SPINT4	0	3.333518194	0	-10.36518	IGKV3-20	3.301927249	0	0	-12.94977
MCHR2	0	3.333518194	0	-10.36518	PPP1R35-AS	3.301927249	0	0	-12.94977
CLEC18C	0	3.333518194	0	-10.36518	RPL22P19	3.301927249	0	0	-12.94977
SPRR3	0	3.333518194	0	-10.36518	CSP2	3.301927249	0	0	-12.94977
FAM170A	0	3.333518194	0	-10.36518	KRT8P13	3.301927249	0	0	-12.94977
SUN3	0	3.333518194	0	-10.36518	U2SURPP1	3.301927249	0	0	-12.94977
SERPINB7	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SPRR1B	0	3.333518194	0	-10.36518	HLA-DMB	3.301927249	0	0	-12.94977
BNC1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
MRGPRX1	0	3.333518194	0	-10.36518	ERVW-1	3.301927249	0	0	-12.94977
RPL10P2	0	3.333518194	0	-10.36518	PRAMEF4	3.301927249	0	0	-12.94977
OR10P1	0	3.333518194	0	-10.36518	RPL31P61	3.301927249	0	0	-12.94977
FAM220BP	0	3.333518194	0	-10.36518	UPK3B	3.301927249	0	0	-12.94977
OR51V1	0	3.333518194	0	-10.36518	RPS2P44	3.301927249	0	0	-12.94977
OR2G2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SLC35G5	0	3.333518194	0	-10.36518	EEF1A1P4	3.301927249	0	0	-12.94977
ZBTB12BP	0	3.333518194	0	-10.36518	HNRNPA1P4	3.301927249	0	0	-12.94977
CTAGE10P	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
OR6T1	0	3.333518194	0	-10.36518	DNAH10OS	3.301927249	0	0	-12.94977
KRTAP13-2	0	3.333518194	0	-10.36518	PKD1P6	3.301927249	0	0	-12.94977
GPATCH11P	0	3.333518194	0	-10.36518	LINC01340	3.301927249	0	0	-12.94977
DEFB131A	0	3.333518194	0	-10.36518	C12orf29P1	3.301927249	0	0	-12.94977
OR9Q2	0	3.333518194	0	-10.36518	ST3GAL1P1	3.301927249	0	0	-12.94977
KRTAP13-4	0	3.333518194	0	-10.36518	SNHG18	3.301927249	0	0	-12.94977
TERF1P2	0	3.333518194	0	-10.36518	TUBAP15	3.301927249	0	0	-12.94977
RPL10AP2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SPANXN4	0	3.333518194	0	-10.36518	MIR3142HG	3.301927249	0	0	-12.94977
OR8D1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SPRR2B	0	3.333518194	0	-10.36518	IGLV3-13	3.301927249	0	0	-12.94977
ENSG000001	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
CFD	0	3.333518194	0	-10.36518	KRT18P37	3.301927249	0	0	-12.94977
OR5B17	0	3.333518194	0	-10.36518	PRXL2AP2	3.301927249	0	0	-12.94977
C1orf68	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
SERPINB11	0	3.333518194	0	-10.36518	TRPC6P5	3.301927249	0	0	-12.94977
P2RX6P	0	3.333518194	0	-10.36518	OR4A42P	3.301927249	0	0	-12.94977
SNORA70F	0	3.333518194	0	-10.36518	CASP1P2	3.301927249	0	0	-12.94977
TRBV7-6	0	3.333518194	0	-10.36518	KLC2-AS1	3.301927249	0	0	-12.94977
TRAV8-3	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
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TRAJ10	0	3.333518194	0	-10.36518	UBTFL1	3.301927249	0	0	-12.94977
KRTAP3-1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
KRTAP6-3	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	RBISP3	3.301927249	0	0	-12.94977
LTC4S	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	FAHD2P1	3.301927249	0	0	-12.94977
GAPDHP44	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
CISD1P1	0	3.333518194	0	-10.36518	LINC02298	3.301927249	0	0	-12.94977
FIRRE	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
EIF1P7	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
RPL3P6	0	3.333518194	0	-10.36518	KLF17P1	3.301927249	0	0	-12.94977
WEE2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
MAGEB1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
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RPL12P2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
CCT7P1	0	3.333518194	0	-10.36518	LINC00924	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
HNRNPA1P5	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
ACTBP8	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
POM121L10	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
MAGEA7P	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
KRT18P39	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
PRPF38AP1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
TUBAP9	0	3.333518194	0	-10.36518	EIF5A2P1	3.301927249	0	0	-12.94977
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MRPS11P1	0	3.333518194	0	-10.36518	LINC00622	3.301927249	0	0	-12.94977
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ENSG000003	0	3.333518194	0	-10.36518	NQO1-DT	3.301927249	0	0	-12.94977
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FTOP1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
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ENSG000003	0	3.333518194	0	-10.36518	DLGAP1-AS1	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	BDP1P	3.301927249	0	0	-12.94977
RPSAP1	0	3.333518194	0	-10.36518	MIR4494	3.301927249	0	0	-12.94977
RPL21P24	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
AK3P3	0	3.333518194	0	-10.36518	PCAT18	3.301927249	0	0	-12.94977
NEK2P4	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977
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GSTA10P	0	3.333518194	0	-10.36518	MIR3909	3.301927249	0	0	-12.94977
AURKBP1	0	3.333518194	0	-10.36518	LINC01841	3.301927249	0	0	-12.94977
SHQ1P1	0	3.333518194	0	-10.36518	CEBPA-DT	3.301927249	0	0	-12.94977
MCF2L2P1	0	3.333518194	0	-10.36518	EIF1P6	3.301927249	0	0	-12.94977
PSMD10P3	0	3.333518194	0	-10.36518	LINC02135	3.301927249	0	0	-12.94977
ENSG000003	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0	-12.94977

CNOT7P2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
LINC01517	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
RPLP0P5	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
HSD17B7P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
HSPA8P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
PPIAP34	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
SLC16A12-A	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	OR51C4P	3.301927249	0	0 -12.94977
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ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
PSMB3P2	0	3.333518194	0	-10.36518	MIR6885	3.301927249	0	0 -12.94977
EEF1A1P44	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	LINC03061	3.301927249	0	0 -12.94977
PHKG1P3	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
CREB3L2-A	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
SPIN2P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
NMNAT1P3	0	3.333518194	0	-10.36518	GOLGA6L17	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	TEX28	3.301927249	0	0 -12.94977
TBC1D3P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
RPL21P6	0	3.333518194	0	-10.36518	POTEB3	3.301927249	0	0 -12.94977
RPL21P71	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
RPL36AP41	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
GTF2A1L	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
PSMC1P7	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ELFN2.1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
EIF4BP8	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ATP6V0CP2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
SMARCA5-/	0	3.333518194	0	-10.36518	LINC03077	3.301927249	0	0 -12.94977
RETREG1-A	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
INSL3	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
LINC02014	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
KRT19P3	0	3.333518194	0	-10.36518	MIR7978	3.301927249	0	0 -12.94977
KRT8P32	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	PRIM2BP	3.301927249	0	0 -12.94977
TSEN2P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
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SLC25A51P3	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	LINC02929	3.301927249	0	0 -12.94977
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SNRPCP14	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
TBX5-AS1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
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GSTP1P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
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LINC02303	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
TRAV30	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
LINC00928	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
GH1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
KRT8P9	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
IGHV3OR16	0	3.333518194	0	-10.36518	UGT1A3	3.301927249	0	0 -12.94977
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HERC2P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
OR1P1	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
UBL5P2	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
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ENSG000002	0	3.333518194	0	-10.36518	CYP4F30P	3.301927249	0	0 -12.94977
CEBPA-DT	0	3.333518194	0	-10.36518	ENSG000002	3.301927249	0	0 -12.94977
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ENSG000002	0	3.333518194	0	-10.36518	DRD4	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	DEFB127	2.201284833	0	0 -12.94977
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DMRTC1	0	3.333518194	0	-10.36518	GPR31	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	ACTRT1	2.201284833	0	0 -12.94977
NOP53-AS1	0	3.333518194	0	-10.36518	TYRL	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	WNT1	2.201284833	0	0 -12.94977
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ENSG000002	0	3.333518194	0	-10.36518	PRDM12	2.201284833	0	0 -12.94977
PPIAP75	0	3.333518194	0	-10.36518	DEFB118	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	TRPM1	2.201284833	0	0 -12.94977
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FAM47E-ST	0	3.333518194	0	-10.36518	GH2	2.201284833	0	0 -12.94977
APP-DT	0	3.333518194	0	-10.36518	DMRTB1	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	CRNN	2.201284833	0	0 -12.94977
MYO5BP1	0	3.333518194	0	-10.36518	H2BC1	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	KAAG1	2.201284833	0	0 -12.94977
FLJ36000	0	3.333518194	0	-10.36518	IGFBP1	2.201284833	0	0 -12.94977
GOLGA6L6	0	3.333518194	0	-10.36518	POMZP3	2.201284833	0	0 -12.94977
KMT2CP1	0	3.333518194	0	-10.36518	ASB10	2.201284833	0	0 -12.94977
PMS2P2	0	3.333518194	0	-10.36518	SPINT4	2.201284833	0	0 -12.94977
ENSG000002	0	3.333518194	0	-10.36518	DLG5	2.201284833	0	0 -12.94977
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LINC02635	0	3.333518194	0	-10.36518	SLC25A31	2.201284833	0	0	-12.94977
ENSG000002	0	3.333518194	0	-10.36518	SPATC1L	2.201284833	0	0	-12.94977
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SLC6A10P	0	3.333518194	0	-10.36518	DNAJA1P5	2.201284833	0	0	-12.94977
CFH	0	2.222345463	0	-10.36518	CCKAR	2.201284833	0	0	-12.94977
GUCA1A	0	2.222345463	0	-10.36518	C3orf49	2.201284833	0	0	-12.94977
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CGB2	0	2.222345463	0	-10.36518	IGF2BP2-AS1	2.201284833	0	0	-12.94977
APOC3	0	2.222345463	0	-10.36518	CLDN19	2.201284833	0	0	-12.94977
MYOT	0	2.222345463	0	-10.36518	FAM170A	2.201284833	0	0	-12.94977
SPINK4	0	2.222345463	0	-10.36518	PPP1R14D	2.201284833	0	0	-12.94977
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DEFB118	0	2.222345463	0	-10.36518	TERB2	2.201284833	0	0	-12.94977
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DUOXA2	0	2.222345463	0	-10.36518	TSPY2	2.201284833	0	0	-12.94977
SHISAL2B	0	2.222345463	0	-10.36518	OR4K15	2.201284833	0	0	-12.94977
IFNK	0	2.222345463	0	-10.36518	GKN1	2.201284833	0	0	-12.94977
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LCE2B	0	2.222345463	0	-10.36518	FOXA3	2.201284833	0	0	-12.94977
TEPP	0	2.222345463	0	-10.36518	DDI1	2.201284833	0	0	-12.94977
SPRR2D	0	2.222345463	0	-10.36518	FRG2C	2.201284833	0	0	-12.94977
CARTPT	0	2.222345463	0	-10.36518	PPP1R3B	2.201284833	0	0	-12.94977
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DEFB1	0	2.222345463	0	-10.36518	SPDYE2B	2.201284833	0	0	-12.94977
IL25	0	2.222345463	0	-10.36518	ZG16	2.201284833	0	0	-12.94977
TERB2	0	2.222345463	0	-10.36518	TEX26	2.201284833	0	0	-12.94977
PHYHIP	0	2.222345463	0	-10.36518	IDSP1	2.201284833	0	0	-12.94977
OR13J1	0	2.222345463	0	-10.36518	OR51V1	2.201284833	0	0	-12.94977
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CST2	0	2.222345463	0	-10.36518	ENSG000001	2.201284833	0	0	-12.94977
COX7B2	0	2.222345463	0	-10.36518	OR2D3	2.201284833	0	0	-12.94977
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C1orf167-AS	0	2.222345463	0	-10.36518	H2BC2P	2.201284833	0	0	-12.94977
MBOAT4	0	2.222345463	0	-10.36518	LINC00670	2.201284833	0	0	-12.94977
KCNJ10	0	2.222345463	0	-10.36518	EEF1A1P27	2.201284833	0	0	-12.94977
FAM133A	0	2.222345463	0	-10.36518	FAM216B	2.201284833	0	0	-12.94977
ACTA2-AS1	0	2.222345463	0	-10.36518	ZBTB12BP	2.201284833	0	0	-12.94977
MAPK15	0	2.222345463	0	-10.36518	ENTR1P2	2.201284833	0	0	-12.94977
OR4A16	0	2.222345463	0	-10.36518	ENSG000001	2.201284833	0	0	-12.94977
PPIAP73	0	2.222345463	0	-10.36518	LINC00301	2.201284833	0	0	-12.94977
TRBV21OR9	0	2.222345463	0	-10.36518	CAV3	2.201284833	0	0	-12.94977
OR51J1	0	2.222345463	0	-10.36518	C10orf120	2.201284833	0	0	-12.94977
HSF1	0	2.222345463	0	-10.36518	MC2R	2.201284833	0	0	-12.94977
OR9Q1	0	2.222345463	0	-10.36518	KRT16	2.201284833	0	0	-12.94977
SCGB1C1	0	2.222345463	0	-10.36518	KRTAP15-1	2.201284833	0	0	-12.94977
MMP23B	0	2.222345463	0	-10.36518	KRTAP19-5	2.201284833	0	0	-12.94977
OR7E13P	0	2.222345463	0	-10.36518	HSD3BP1	2.201284833	0	0	-12.94977
CT83	0	2.222345463	0	-10.36518	DPPA3	2.201284833	0	0	-12.94977
RXRB	0	2.222345463	0	-10.36518	TMEM202	2.201284833	0	0	-12.94977
NMS	0	2.222345463	0	-10.36518	S100A3	2.201284833	0	0	-12.94977
KRTAP20-4	0	2.222345463	0	-10.36518	GPR15LG	2.201284833	0	0	-12.94977
CFAP99	0	2.222345463	0	-10.36518	QRFP	2.201284833	0	0	-12.94977
GOLGA8O	0	2.222345463	0	-10.36518	RPL10AP2	2.201284833	0	0	-12.94977
IGLJ7	0	2.222345463	0	-10.36518	DCAF8L2	2.201284833	0	0	-12.94977
TRAV16	0	2.222345463	0	-10.36518	MMP23B	2.201284833	0	0	-12.94977
TRAV40	0	2.222345463	0	-10.36518	SPRR2B	2.201284833	0	0	-12.94977
TRDJ3	0	2.222345463	0	-10.36518	BMS1P9	2.201284833	0	0	-12.94977
TRAJ35	0	2.222345463	0	-10.36518	HSD3BP5	2.201284833	0	0	-12.94977
RPL17P8	0	2.222345463	0	-10.36518	MIR429	2.201284833	0	0	-12.94977
KRT18P68	0	2.222345463	0	-10.36518	SNORD62	2.201284833	0	0	-12.94977
IFITM9P	0	2.222345463	0	-10.36518	RNA5SP119	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	RNA5SP307	2.201284833	0	0	-12.94977
YBX2P1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
VN1R64P	0	2.222345463	0	-10.36518	RNU6-82P	2.201284833	0	0	-12.94977
CYP2A7P1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KRT8P14	0	2.222345463	0	-10.36518	RNU6-268P	2.201284833	0	0	-12.94977
CTBP2P5	0	2.222345463	0	-10.36518	RNA5SP139	2.201284833	0	0	-12.94977
RPS19P1	0	2.222345463	0	-10.36518	RNU105B	2.201284833	0	0	-12.94977
UPF3AP2	0	2.222345463	0	-10.36518	Y_RNA.56	2.201284833	0	0	-12.94977
TRIM64C	0	2.222345463	0	-10.36518	Y_RNA.58	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	Y_RNA.61	2.201284833	0	0	-12.94977
RPL24P7	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PPIAP1	0	2.222345463	0	-10.36518	OR1F2P	2.201284833	0	0	-12.94977
KRT18P12	0	2.222345463	0	-10.36518	RIPPLY2	2.201284833	0	0	-12.94977
FEN1P1	0	2.222345463	0	-10.36518	SMIM5	2.201284833	0	0	-12.94977
EEF1A1P46	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ANXA2P3	0	2.222345463	0	-10.36518	SPINK9	2.201284833	0	0	-12.94977
RPL7P58	0	2.222345463	0	-10.36518	LINC02903	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	DGAT2L7P	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TP53TG3D	2.201284833	0	0	-12.94977
OR4F7P	0	2.222345463	0	-10.36518	SNORA24B	2.201284833	0	0	-12.94977
LINC03010	0	2.222345463	0	-10.36518	RNU6-1024P	2.201284833	0	0	-12.94977
IMPDH1P9	0	2.222345463	0	-10.36518	RNU6-4P	2.201284833	0	0	-12.94977
MRPL32P1	0	2.222345463	0	-10.36518	Y_RNA.81	2.201284833	0	0	-12.94977
C11orf98P2	0	2.222345463	0	-10.36518	SNORD38C	2.201284833	0	0	-12.94977
FAM218BP	0	2.222345463	0	-10.36518	RNU6-1222P	2.201284833	0	0	-12.94977
HEPN1	0	2.222345463	0	-10.36518	MIR433	2.201284833	0	0	-12.94977
TTC4P1	0	2.222345463	0	-10.36518	SNORD96B	2.201284833	0	0	-12.94977
Y_RNA.105	0	2.222345463	0	-10.36518	MT-TC	2.201284833	0	0	-12.94977
RNA5SP25	0	2.222345463	0	-10.36518	MIR762	2.201284833	0	0	-12.94977
RNF14P4	0	2.222345463	0	-10.36518	IGLV8-61	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	IGLV5-48	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	IGLV1-44	2.201284833	0	0	-12.94977
RBM48P1	0	2.222345463	0	-10.36518	IGLV3-22	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TRBV7-6	2.201284833	0	0	-12.94977

LMX1A-AS2	0	2.222345463	0	-10.36518	TRBV19	2.201284833	0	0	-12.94977
LINC00320	0	2.222345463	0	-10.36518	TRBV20-1	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TRAV16	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TRAV40	2.201284833	0	0	-12.94977
HNRNPA3P	0	2.222345463	0	-10.36518	TRAJ56	2.201284833	0	0	-12.94977
IPO7P2	0	2.222345463	0	-10.36518	TRAJ42	2.201284833	0	0	-12.94977
P3H2-AS1	0	2.222345463	0	-10.36518	TRAJ13	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TRAJ2	2.201284833	0	0	-12.94977
USP12PX	0	2.222345463	0	-10.36518	TRAJ1	2.201284833	0	0	-12.94977
RPS10P10	0	2.222345463	0	-10.36518	IGHV3-13	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	RNA5SP372	2.201284833	0	0	-12.94977
PPIAP66	0	2.222345463	0	-10.36518	KRTAP3-1	2.201284833	0	0	-12.94977
STUB1P1	0	2.222345463	0	-10.36518	BTF3L4P3	2.201284833	0	0	-12.94977
LINC01345	0	2.222345463	0	-10.36518	CNN2P9	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	COPS5P1	2.201284833	0	0	-12.94977
RPSAP21	0	2.222345463	0	-10.36518	YBX1P4	2.201284833	0	0	-12.94977
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PSMD10P2	0	2.222345463	0	-10.36518	CLNS1AP1	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	NAP1L1P3	2.201284833	0	0	-12.94977
SLC6A17-AS	0	2.222345463	0	-10.36518	ATP6V0CP3	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	FIRRE	2.201284833	0	0	-12.94977
QRSL1P2	0	2.222345463	0	-10.36518	PPIAP16	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	LDHAP5	2.201284833	0	0	-12.94977
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RANP5	0	2.222345463	0	-10.36518	EEF1DP4	2.201284833	0	0	-12.94977
LINC02048	0	2.222345463	0	-10.36518	RPL21P86	2.201284833	0	0	-12.94977
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KRT8P18	0	2.222345463	0	-10.36518	HNRNPA1P3	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	KLRK1	2.201284833	0	0	-12.94977
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AK3P5	0	2.222345463	0	-10.36518	PPIAP23	2.201284833	0	0	-12.94977
PRDX3P1	0	2.222345463	0	-10.36518	VAC14-AS1	2.201284833	0	0	-12.94977
LINC01501	0	2.222345463	0	-10.36518	NOTO	2.201284833	0	0	-12.94977
PIGCP2	0	2.222345463	0	-10.36518	GTF2IRD2P1	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	TPM3P4	2.201284833	0	0	-12.94977
RPSAP22	0	2.222345463	0	-10.36518	DUTP8	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PYHIN5P	0	2.222345463	0	-10.36518	MAPK6P4	2.201284833	0	0	-12.94977
NCAPD2P1	0	2.222345463	0	-10.36518	SRSF6P1	2.201284833	0	0	-12.94977
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MBD3L2	0	2.222345463	0	-10.36518	TTC34	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	MRPL42P2	2.201284833	0	0	-12.94977
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MSANTD2P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
FARSBP1	0	2.222345463	0	-10.36518	OR4K12P	2.201284833	0	0	-12.94977
FARP1-AS1	0	2.222345463	0	-10.36518	LINC03010	2.201284833	0	0	-12.94977
BEND3P1	0	2.222345463	0	-10.36518	BRD7P4	2.201284833	0	0	-12.94977
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RPS27AP5	0	2.222345463	0	-10.36518	NPM1P38	2.201284833	0	0	-12.94977
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ENSG000002	0	2.222345463	0	-10.36518	MTCYBP4	2.201284833	0	0	-12.94977
SEPHS1P7	0	2.222345463	0	-10.36518	ZNF402P	2.201284833	0	0	-12.94977
PNLIPP1	0	2.222345463	0	-10.36518	PGAM1P10	2.201284833	0	0	-12.94977
SLC25A6P2	0	2.222345463	0	-10.36518	RNU4-37P	2.201284833	0	0	-12.94977
TPM4P1	0	2.222345463	0	-10.36518	RNU6-757P	2.201284833	0	0	-12.94977
ATP5MGP2	0	2.222345463	0	-10.36518	TH2LCRR	2.201284833	0	0	-12.94977
IL9RP2	0	2.222345463	0	-10.36518	RNF14P4	2.201284833	0	0	-12.94977
GCSIR	0	2.222345463	0	-10.36518	CCR5AS	2.201284833	0	0	-12.94977
ATG4AP1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HNRNPLP1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
CYP2T1P	0	2.222345463	0	-10.36518	STK24-AS1	2.201284833	0	0	-12.94977
PIRT	0	2.222345463	0	-10.36518	GUSBP6	2.201284833	0	0	-12.94977
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DPH3P1	0	2.222345463	0	-10.36518	MEP1AP4	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	SAGE4P	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	LMX1A-AS2	2.201284833	0	0	-12.94977
LINC01723	0	2.222345463	0	-10.36518	IQCF4P	2.201284833	0	0	-12.94977
OR7E46P	0	2.222345463	0	-10.36518	EML4-AS1	2.201284833	0	0	-12.94977
OR7E155P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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ZRANB2-AS	0	2.222345463	0	-10.36518	AKR1C5P	2.201284833	0	0	-12.94977
CDK5P1	0	2.222345463	0	-10.36518	LINC01671	2.201284833	0	0	-12.94977
TUBBP6	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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SNX19P2	0	2.222345463	0	-10.36518	DEFB131B	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	SFTPA3P	2.201284833	0	0	-12.94977
EGOT	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	SLC18A2-AS	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	HMGB3P20	2.201284833	0	0	-12.94977
PPIAL4G	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
LINC00437	0	2.222345463	0	-10.36518	PPIAP66	2.201284833	0	0	-12.94977
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EIF4A1P6	0	2.222345463	0	-10.36518	USP8P2	2.201284833	0	0	-12.94977
IFNA4	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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PPIAP36	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	SHANK2-AS	2.201284833	0	0	-12.94977
KRT18P52	0	2.222345463	0	-10.36518	TRBV2	2.201284833	0	0	-12.94977
MTND2P11	0	2.222345463	0	-10.36518	PAICSP3	2.201284833	0	0	-12.94977
ZNF133-AS1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
TUBG1P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
COX6CP10	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
SPATA3-AS	0	2.222345463	0	-10.36518	LINC00629	2.201284833	0	0	-12.94977
OR7E117P	0	2.222345463	0	-10.36518	SDHDP2	2.201284833	0	0	-12.94977
RPS2P35	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	ZNF692-DT	2.201284833	0	0	-12.94977

RN7SL34P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL21P55	0	2.222345463	0	-10.36518	NALF1-IT1	2.201284833	0	0	-12.94977
RN7SL792P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL7P24	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ARGFXP1	0	2.222345463	0	-10.36518	ILRUNP1	2.201284833	0	0	-12.94977
PHB1P8	0	2.222345463	0	-10.36518	SFR1P1	2.201284833	0	0	-12.94977
RPL7AP58	0	2.222345463	0	-10.36518	HNRNPA1P1	2.201284833	0	0	-12.94977
PTOV1P1	0	2.222345463	0	-10.36518	SERPINA7P1	2.201284833	0	0	-12.94977
TDGF1P6	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	ARHGAP42P	2.201284833	0	0	-12.94977
CCDC169	0	2.222345463	0	-10.36518	ATP6V0E1P4	2.201284833	0	0	-12.94977
PRR23E2P	0	2.222345463	0	-10.36518	PSMA2P3	2.201284833	0	0	-12.94977
RN7SL614P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	LINC01515	2.201284833	0	0	-12.94977
RPS23P1	0	2.222345463	0	-10.36518	RPL7P47	2.201284833	0	0	-12.94977
PRICKLE1P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
OR7E66P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	LINC01320	2.201284833	0	0	-12.94977
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B3GAT3P1	0	2.222345463	0	-10.36518	RPL21P50	2.201284833	0	0	-12.94977
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EEF1A1P4	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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ENSG000002	0	2.222345463	0	-10.36518	SNRPD2P1	2.201284833	0	0	-12.94977
HSPA8P4	0	2.222345463	0	-10.36518	MRPL32P2	2.201284833	0	0	-12.94977
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CRYZP2	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
UNC93B4	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MRS2P1	0	2.222345463	0	-10.36518	PIP5K1P2	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	MYCBP2-AS	2.201284833	0	0	-12.94977
DPP3P1	0	2.222345463	0	-10.36518	LINC02681	2.201284833	0	0	-12.94977
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TCP11X3P	0	2.222345463	0	-10.36518	DSCR9	2.201284833	0	0	-12.94977
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PPIAP84	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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OR2AT1P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PLS1P1	0	2.222345463	0	-10.36518	MYO18B-AS	2.201284833	0	0	-12.94977
ANKRD33B	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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LGR4-AS1	0	2.222345463	0	-10.36518	LINC01517	2.201284833	0	0	-12.94977
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MORF4L1P3	0	2.222345463	0	-10.36518	RPL34P27	2.201284833	0	0	-12.94977
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ANKRD33B	0	2.222345463	0	-10.36518	PTPRN2-AS1	2.201284833	0	0	-12.94977
ENSG000002	0	2.222345463	0	-10.36518	LINC01677	2.201284833	0	0	-12.94977
DDX18P5	0	2.222345463	0	-10.36518	LINC01399	2.201284833	0	0	-12.94977
RRM1-AS1	0	2.222345463	0	-10.36518	USP17L11	2.201284833	0	0	-12.94977
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KNOP1P1	0	2.222345463	0	-10.36518	IGKV3OR2-2	2.201284833	0	0	-12.94977
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GPR84-AS1	0	2.222345463	0	-10.36518	JAZF1-AS1	2.201284833	0	0	-12.94977
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KRT8P2	0	2.222345463	0	-10.36518	AGPAT5P1	2.201284833	0	0	-12.94977
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PPIAP50	0	2.222345463	0	-10.36518	RBMS3-AS3	2.201284833	0	0 -12.94977
SMG1P7	0	2.222345463	0	-10.36518	LINC01936	2.201284833	0	0 -12.94977
DISC1FP1	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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ATP6V1E1P	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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RPIAP1	0	2.222345463	0	-10.36518	TEX51	2.201284833	0	0 -12.94977
NTF6B	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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ENSG000002	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PLCE1-AS1	0	2.222345463	0	-10.36518	PLLPP1	2.201284833	0	0 -12.94977
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FOXD4L6	0	2.222345463	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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RASSF1-AS	0	2.222345463	0	-10.36518	P4HA3-AS1	2.201284833	0	0 -12.94977
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FAM237B	0	2.222345463	0	-10.36518	LINC02234	2.201284833	0	0 -12.94977
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OR8B2	0	2.222345463	0	-10.36518	LINC02469	2.201284833	0	0 -12.94977
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GRIPAP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PLA2G10	0	1.111172731	0	-10.36518	IGKV1D-22	2.201284833	0	0 -12.94977
PRLH	0	1.111172731	0	-10.36518	ABRAXAS1I	2.201284833	0	0 -12.94977
AQP6	0	1.111172731	0	-10.36518	CTNNA1-AS	2.201284833	0	0 -12.94977
SPINT3	0	1.111172731	0	-10.36518	IKBKB-DT	2.201284833	0	0 -12.94977
ACOD1	0	1.111172731	0	-10.36518	TRBV7-4	2.201284833	0	0 -12.94977
CCL17	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CABP5	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CSF3	0	1.111172731	0	-10.36518	PSAT1P1	2.201284833	0	0 -12.94977
WNT1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
RGS13	0	1.111172731	0	-10.36518	ALG1L10P	2.201284833	0	0 -12.94977
KRT34	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
KRT17P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
BCO1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
FLOT1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
GOLGA6D	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CARD14	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SAMD1	0	1.111172731	0	-10.36518	SPON1-AS1	2.201284833	0	0 -12.94977
DMRTB1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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CACNA2D4	0	1.111172731	0	-10.36518	LINC02755	2.201284833	0	0 -12.94977
LCN1	0	1.111172731	0	-10.36518	MRGPRX13F	2.201284833	0	0 -12.94977
COX6B2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
MGAT4B	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PRODHLP	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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IL20	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
TGM4	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CLDN19	0	1.111172731	0	-10.36518	PPIAP43	2.201284833	0	0 -12.94977
PRDM9	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SPZ1	0	1.111172731	0	-10.36518	GLYATL1P1	2.201284833	0	0 -12.94977
CALHM4	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
UNCX	0	1.111172731	0	-10.36518	TBX5-AS1	2.201284833	0	0 -12.94977
ATP23	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
OR51Q1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
OR4K15	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
S100G	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
C8orf74	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
NXNL1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SAA1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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SLC19A1	0	1.111172731	0	-10.36518	CCND2-AS1	2.201284833	0	0 -12.94977
COMMD5P1	0	1.111172731	0	-10.36518	SKP1P2	2.201284833	0	0 -12.94977
NDUFA11	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
LINC02873	0	1.111172731	0	-10.36518	LINC02441	2.201284833	0	0 -12.94977
ENSG00000	0	1.111172731	0	-10.36518	CSGALNACT	2.201284833	0	0 -12.94977
OR11H4	0	1.111172731	0	-10.36518	SRSF8BP	2.201284833	0	0 -12.94977
OR4K3	0	1.111172731	0	-10.36518	LINC02874	2.201284833	0	0 -12.94977
PAK6-AS1	0	1.111172731	0	-10.36518	TAS2R38	2.201284833	0	0 -12.94977
LINC00303	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
MAGEB18	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
KRT18P28	0	1.111172731	0	-10.36518	KRT126P	2.201284833	0	0 -12.94977
OR2T35	0	1.111172731	0	-10.36518	LINC02297	2.201284833	0	0 -12.94977
LINC01561	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSAP3	0	1.111172731	0	-10.36518	LINC02156	2.201284833	0	0 -12.94977
LINC02907	0	1.111172731	0	-10.36518	DDN-AS1	2.201284833	0	0 -12.94977
NECAP1P1	0	1.111172731	0	-10.36518	NOP56P3	2.201284833	0	0 -12.94977
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SLC24A3-AS	0	1.111172731	0	-10.36518	GPR84-AS1	2.201284833	0	0 -12.94977
LINC02724	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PYY3	0	1.111172731	0	-10.36518	GPR84-AS1.1	2.201284833	0	0 -12.94977
DAOA	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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KRTAP11-1	0	1.111172731	0	-10.36518	YBX2P2	2.201284833	0	0 -12.94977
RXFP3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ANKRD45	0	1.111172731	0	-10.36518	TRIM34	2.201284833	0	0 -12.94977
SPRR4	0	1.111172731	0	-10.36518	C20orf141	2.201284833	0	0 -12.94977
PTGER4P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
OR4C10P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
UNC93B5	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ZNF733P	0	1.111172731	0	-10.36518	TRAV32	2.201284833	0	0 -12.94977
KLHL33	0	1.111172731	0	-10.36518	LINC02302	2.201284833	0	0 -12.94977
EEF1GP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
LCN10	0	1.111172731	0	-10.36518	PEBP1P1	2.201284833	0	0 -12.94977
DEFB108F	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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RPS2P4	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SPINK14	0	1.111172731	0	-10.36518	SYNM-AS1	2.201284833	0	0 -12.94977
LINC00477	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PRB3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CYYR1-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
BMS1P9	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
LINC02692	0	1.111172731	0	-10.36518	LINC02254	2.201284833	0	0 -12.94977
RD3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977

MIR374A	0	1.111172731	0	-10.36518	UAP1-DT	2.201284833	0	0	-12.94977
RNU1-76P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
SNORD1B	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
SNORD115-	0	1.111172731	0	-10.36518	THSD4-AS1	2.201284833	0	0	-12.94977
Y_RNA.31	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
Y_RNA.34	0	1.111172731	0	-10.36518	GOLGA2P11	2.201284833	0	0	-12.94977
SNORD115-	0	1.111172731	0	-10.36518	AFTPH-DT	2.201284833	0	0	-12.94977
RNU4-42P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
Y_RNA.46	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RNU6-818P	0	1.111172731	0	-10.36518	LINC01882	2.201284833	0	0	-12.94977
SMIM5	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HSPA1B	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
VWA7	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	CYCSP39	2.201284833	0	0	-12.94977
SPINK9	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
OR4D8P	0	1.111172731	0	-10.36518	UNGP1	2.201284833	0	0	-12.94977
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HNRNPA1P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
GAGE1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ONECUT3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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C4orf46P1	0	1.111172731	0	-10.36518	LINC01859	2.201284833	0	0	-12.94977
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RNY1P14	0	1.111172731	0	-10.36518	ALOX12P2	2.201284833	0	0	-12.94977
MIR181A2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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MIR99A	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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IGLV3-12	0	1.111172731	0	-10.36518	KRT8P34	2.201284833	0	0	-12.94977
IGLC7	0	1.111172731	0	-10.36518	SRP72P1	2.201284833	0	0	-12.94977
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TRAJ31	0	1.111172731	0	-10.36518	LINC02933	2.201284833	0	0	-12.94977
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OR5S1P	0	1.111172731	0	-10.36518	CTBP2P7	2.201284833	0	0	-12.94977
NPM1P46	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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SAR1AP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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ANXA2P1	0	1.111172731	0	-10.36518	EIF4A2P1	2.201284833	0	0	-12.94977
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VTI1BP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PPIAP82	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL32P22	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MTHFD2P5	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HNRNPA1P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL29P5	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HNRNPA1P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL35P4	0	1.111172731	0	-10.36518	NFILZ	2.201284833	0	0	-12.94977
RPL7AP38	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KLRK1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
NPM1P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
LTB4R	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
NPM1P33	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KRT18P29	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KRT18P38	0	1.111172731	0	-10.36518	LINC01711	2.201284833	0	0	-12.94977
RPSAP61	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPS11P7	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ARF4P3	0	1.111172731	0	-10.36518	LINC01082	2.201284833	0	0	-12.94977
ACTN4P2	0	1.111172731	0	-10.36518	OR7A3P	2.201284833	0	0	-12.94977
TPM3P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PRR23E	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
GAPDHP15	0	1.111172731	0	-10.36518	OR7E108P	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KRT8P26	0	1.111172731	0	-10.36518	PRMT1P1	2.201284833	0	0	-12.94977
MRPS5P3	0	1.111172731	0	-10.36518	FBXW7-AS1	2.201284833	0	0	-12.94977
RPL21P1	0	1.111172731	0	-10.36518	CHCHD2P11	2.201284833	0	0	-12.94977
ARL8BP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPS15AP3	0	1.111172731	0	-10.36518	COX5AP1	2.201284833	0	0	-12.94977
CCNB2P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
IFITM8P	0	1.111172731	0	-10.36518	LINC02343	2.201284833	0	0	-12.94977
IGLV8OR8-1	0	1.111172731	0	-10.36518	LINC01215	2.201284833	0	0	-12.94977
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FAM66B	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RCN1P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ARL2BPP3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KANK1P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
CFL1P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RAET1M	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ASS1P9	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977

SLC25A5P7	0	1.111172731	0	-10.36518	OR5AL1	2.201284833	0	0	-12.94977
HNRNPA1P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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CATSPERZ	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
SELENOKP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PPIAP74	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
GSTA8P	0	1.111172731	0	-10.36518	U1	2.201284833	0	0	-12.94977
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LINC02902	0	1.111172731	0	-10.36518	MIR8066	2.201284833	0	0	-12.94977
RNA5SP156	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RNU2-48P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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GAPDHP69	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
UHRF2P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ADH5P3	0	1.111172731	0	-10.36518	LINC02371	2.201284833	0	0	-12.94977
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HSP90AB5P	0	1.111172731	0	-10.36518	FSIP2LP	2.201284833	0	0	-12.94977
EEF1A1P1	0	1.111172731	0	-10.36518	LINC02826	2.201284833	0	0	-12.94977
EGFR-AS1	0	1.111172731	0	-10.36518	SPDYE19P	2.201284833	0	0	-12.94977
HMGB1P9	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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RPL38P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	MIR6133	2.201284833	0	0	-12.94977
LINC00703	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPSAP10	0	1.111172731	0	-10.36518	CDRT15P6	2.201284833	0	0	-12.94977
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GUSBP10	0	1.111172731	0	-10.36518	CT47C1	2.201284833	0	0	-12.94977
TEX26-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	KMT2CP1	2.201284833	0	0	-12.94977
TACC1P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
KRT8P30	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
TBC1D3P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL29P12	0	1.111172731	0	-10.36518	MIR6080	2.201284833	0	0	-12.94977
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RPL23AP36	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PVALEF	0	1.111172731	0	-10.36518	LINC02961	2.201284833	0	0	-12.94977
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LINC02470	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL21P27	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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SLC25A5P8	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MIPEPP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
TGIF2P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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RPL35AP7	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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DRAXINP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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PGAM1P2	0	1.111172731	0	-10.36518	RASSF1-AS1	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PANDAR	2.201284833	0	0	-12.94977
DDX39AP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PCNPP2	0	1.111172731	0	-10.36518	LINC00550	2.201284833	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	C1orf232	2.201284833	0	0	-12.94977
PHKG1P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL6P4	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
LINC02097	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
DDC-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
LINC01733	0	1.111172731	0	-10.36518	MIR6767	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC02452	2.201284833	0	0	-12.94977
PIMREGP1	0	1.111172731	0	-10.36518	LINC01902	2.201284833	0	0	-12.94977
NMD3P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
OR8T1P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HMGN2P7	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
USP17L7	0	1.111172731	0	-10.36518	MIR205	2.201284833	0	0	-12.94977
GAPDHP73	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MYL6P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPL7P22	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MTCL1P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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BUD13-DT	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
NXNP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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LCT-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
PAICSP3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
RPS4XP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
ABHD17AP6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
HMGB3P8	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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RPL21P20	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
MTND4P30	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
CCNJP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
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TOMM22P3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977
SNRPEP3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0	-12.94977

HNRNPA1P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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PPIAP93	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
LINC01696	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
AKIRIN1P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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PRKCE-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
POLR2CP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
EIF4BP2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
LINC01939	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SNRPD2P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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RPL6P3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
AGBL5-IT1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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MRPS16P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
PPIAP25	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
WDR4P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ROBO2P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
GOLGA2P4	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
RPL26P6	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
MIR194-2HC	0	1.111172731	0	-10.36518	TARP	2.201284833	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ATP8A2P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ARSD-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
SGSM3-AS1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
STK24P1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
ME2P1	0	1.111172731	0	-10.36518	CCNYL2.1	2.201284833	0	0 -12.94977
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HNRNPA1P2	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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ATP6V0CP1	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
HNRNPH3P	0	1.111172731	0	-10.36518	URAHP	2.201284833	0	0 -12.94977
LINC02603	0	1.111172731	0	-10.36518	SULT1C5P	2.201284833	0	0 -12.94977
XRCC6P3	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
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OR51A10P	0	1.111172731	0	-10.36518	ENSG000002	2.201284833	0	0 -12.94977
CEACAMP9	0	1.111172731	0	-10.36518	YBX2	1.100642416	0	0 -12.94977
SNX3P1X	0	1.111172731	0	-10.36518	C2orf83	1.100642416	0	0 -12.94977
GTF2IRD1P1	0	1.111172731	0	-10.36518	ITIH4	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	BCAP29	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	CFHR2	1.100642416	0	0 -12.94977
GGTLC4P	0	1.111172731	0	-10.36518	ASAP3	1.100642416	0	0 -12.94977
RPL17P5	0	1.111172731	0	-10.36518	SPINT3	1.100642416	0	0 -12.94977
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LINC00309	0	1.111172731	0	-10.36518	SIGLEC5	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	PPP1R17	1.100642416	0	0 -12.94977
PRELID3BP	0	1.111172731	0	-10.36518	MOGAT3	1.100642416	0	0 -12.94977
PTP4A1P1	0	1.111172731	0	-10.36518	CRYBA1	1.100642416	0	0 -12.94977
COX11P1	0	1.111172731	0	-10.36518	CSF3	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	PTGES3L-AA	1.100642416	0	0 -12.94977
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RPL34P6	0	1.111172731	0	-10.36518	ABHD14A-A	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	RPS25	1.100642416	0	0 -12.94977
PRDX3P2	0	1.111172731	0	-10.36518	FGF23	1.100642416	0	0 -12.94977
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NEK2P2	0	1.111172731	0	-10.36518	ARL4AP1	1.100642416	0	0 -12.94977
PIK3CDP1	0	1.111172731	0	-10.36518	GTSF1L	1.100642416	0	0 -12.94977
PPP2R2DP1	0	1.111172731	0	-10.36518	APOBEC2	1.100642416	0	0 -12.94977
CYCSP43	0	1.111172731	0	-10.36518	GPR42	1.100642416	0	0 -12.94977
DOC2GP	0	1.111172731	0	-10.36518	TAS2R16	1.100642416	0	0 -12.94977
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ENSG000002	0	1.111172731	0	-10.36518	RHOXF2	1.100642416	0	0 -12.94977
MYO18B-AS	0	1.111172731	0	-10.36518	PODNL1	1.100642416	0	0 -12.94977
PGM5P4-AS	0	1.111172731	0	-10.36518	LINC00470	1.100642416	0	0 -12.94977
FAAHP1	0	1.111172731	0	-10.36518	STOML3	1.100642416	0	0 -12.94977
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ENSG000002	0	1.111172731	0	-10.36518	GJA10	1.100642416	0	0 -12.94977
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FAM215B	0	1.111172731	0	-10.36518	PKD1L1-AS1	1.100642416	0	0 -12.94977
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ENSG000002	0	1.111172731	0	-10.36518	SMIM2	1.100642416	0	0 -12.94977
ZDHHC20P4	0	1.111172731	0	-10.36518	DUOXA2	1.100642416	0	0 -12.94977
GOT2P7	0	1.111172731	0	-10.36518	GOLGA6D	1.100642416	0	0 -12.94977
TMPRSS11C	0	1.111172731	0	-10.36518	IGSF6	1.100642416	0	0 -12.94977
BMPR1AP2	0	1.111172731	0	-10.36518	CARD14	1.100642416	0	0 -12.94977
CSPG4BP	0	1.111172731	0	-10.36518	GPR32	1.100642416	0	0 -12.94977
PRCPP1	0	1.111172731	0	-10.36518	ECE2	1.100642416	0	0 -12.94977
ENSG000002	0	1.111172731	0	-10.36518	SURF6	1.100642416	0	0 -12.94977
PHB1P10	0	1.111172731	0	-10.36518	CACNA2D4	1.100642416	0	0 -12.94977
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ENSG000002	0	1.111172731	0	-10.36518	THRSP	1.100642416	0	0 -12.94977
ATP5MC1P7	0	1.111172731	0	-10.36518	MCHR2	1.100642416	0	0 -12.94977
DNAJC19P8	0	1.111172731	0	-10.36518	SLC16A1	1.100642416	0	0 -12.94977
LINC01717	0	1.111172731	0	-10.36518	GPR61	1.100642416	0	0 -12.94977
RGS5-AS1	0	1.111172731	0	-10.36518	CLDN17	1.100642416	0	0 -12.94977

ENSG000002	0	1.111172731	0	-10.36518	ATP13A2	1.100642416	0	0	-12.94977
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MROH3P	0	1.111172731	0	-10.36518	SPRR2G	1.100642416	0	0	-12.94977
HNRNPA1P4	0	1.111172731	0	-10.36518	LCE3D	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	SPRR2D	1.100642416	0	0	-12.94977
AMMECR1L	0	1.111172731	0	-10.36518	BMP10	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	FAM86KP	1.100642416	0	0	-12.94977
PPIAP65	0	1.111172731	0	-10.36518	TCF23	1.100642416	0	0	-12.94977
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ZNF197-AS1	0	1.111172731	0	-10.36518	RTP3	1.100642416	0	0	-12.94977
LINC01638	0	1.111172731	0	-10.36518	PRDM9	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	KLKB1	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	SMAD5-AS1	1.100642416	0	0	-12.94977
NENFP1	0	1.111172731	0	-10.36518	SPAG11B	1.100642416	0	0	-12.94977
CEACAMP1	0	1.111172731	0	-10.36518	PRSS37	1.100642416	0	0	-12.94977
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LINC01641	0	1.111172731	0	-10.36518	MC4R	1.100642416	0	0	-12.94977
OSTCP5	0	1.111172731	0	-10.36518	ATP23	1.100642416	0	0	-12.94977
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ERICH3-AS1	0	1.111172731	0	-10.36518	DHFRP3	1.100642416	0	0	-12.94977
TLR12P	0	1.111172731	0	-10.36518	C22orf15	1.100642416	0	0	-12.94977
RAD1P1	0	1.111172731	0	-10.36518	GP9	1.100642416	0	0	-12.94977
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LINC02674	0	1.111172731	0	-10.36518	SERPINA6	1.100642416	0	0	-12.94977
LINC00700	0	1.111172731	0	-10.36518	TCAF2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	GARIN3	1.100642416	0	0	-12.94977
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RPL24P2	0	1.111172731	0	-10.36518	FAM90A1	1.100642416	0	0	-12.94977
GAPDHP52	0	1.111172731	0	-10.36518	OR10H2	1.100642416	0	0	-12.94977
SUMO1P3	0	1.111172731	0	-10.36518	OR9I1	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	METAP1D	1.100642416	0	0	-12.94977
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FAM83C-AS	0	1.111172731	0	-10.36518	ADCK5	1.100642416	0	0	-12.94977
TMEM185A1	0	1.111172731	0	-10.36518	CCDC13-AS1	1.100642416	0	0	-12.94977
HM13-IT1	0	1.111172731	0	-10.36518	ZBTB4	1.100642416	0	0	-12.94977
SRSF3P5	0	1.111172731	0	-10.36518	RPL10P2	1.100642416	0	0	-12.94977
ZSWIM5P1	0	1.111172731	0	-10.36518	GRIK1-AS1	1.100642416	0	0	-12.94977
RNF186-AS1	0	1.111172731	0	-10.36518	NDUFA11	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	VN2R1P	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ZBTB44-DT	1.100642416	0	0	-12.94977
CYCSP52	0	1.111172731	0	-10.36518	ENSG000001	1.100642416	0	0	-12.94977
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TBCAP2	0	1.111172731	0	-10.36518	ENSG000001	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	IFNW1	1.100642416	0	0	-12.94977
FAR1P1	0	1.111172731	0	-10.36518	LINC01561	1.100642416	0	0	-12.94977
THRAP3P3	0	1.111172731	0	-10.36518	RPL13AP3	1.100642416	0	0	-12.94977
RPS29P15	0	1.111172731	0	-10.36518	MIEF2	1.100642416	0	0	-12.94977
COX7CP1	0	1.111172731	0	-10.36518	VCX2	1.100642416	0	0	-12.94977
GRAMD4P2	0	1.111172731	0	-10.36518	YWHAQP4	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ZNRF3-AS1	1.100642416	0	0	-12.94977
PRADC1P1	0	1.111172731	0	-10.36518	LINC00314	1.100642416	0	0	-12.94977
GJA6P	0	1.111172731	0	-10.36518	IL6-AS1	1.100642416	0	0	-12.94977
TMEM258P1	0	1.111172731	0	-10.36518	SYCN	1.100642416	0	0	-12.94977
NDUFB9P2	0	1.111172731	0	-10.36518	ATP5F1EP2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	VN1R3	1.100642416	0	0	-12.94977
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CTSLP1	0	1.111172731	0	-10.36518	DEFB112	1.100642416	0	0	-12.94977
HNRNPA1P2	0	1.111172731	0	-10.36518	CHRM2	1.100642416	0	0	-12.94977
MTND2P40	0	1.111172731	0	-10.36518	HECW1-IT1	1.100642416	0	0	-12.94977
BTBD3-AS1	0	1.111172731	0	-10.36518	CCL13	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	OR6T1	1.100642416	0	0	-12.94977
RPL21P137	0	1.111172731	0	-10.36518	EDDM3B	1.100642416	0	0	-12.94977
RPL24P6	0	1.111172731	0	-10.36518	OR6S1	1.100642416	0	0	-12.94977
LINC01852	0	1.111172731	0	-10.36518	AQP7P2	1.100642416	0	0	-12.94977
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MRPS6P2	0	1.111172731	0	-10.36518	RPS17	1.100642416	0	0	-12.94977
SETP4	0	1.111172731	0	-10.36518	CNOT10	1.100642416	0	0	-12.94977
LINC01519	0	1.111172731	0	-10.36518	RIMBP3C	1.100642416	0	0	-12.94977
CATIP-AS2	0	1.111172731	0	-10.36518	URAD	1.100642416	0	0	-12.94977
LINC01343	0	1.111172731	0	-10.36518	SH2D7	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	OR4C46	1.100642416	0	0	-12.94977
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ODAD2P1	0	1.111172731	0	-10.36518	EEF1GP1	1.100642416	0	0	-12.94977
ZDHHC4P1	0	1.111172731	0	-10.36518	SPATA31D3	1.100642416	0	0	-12.94977
RALBP1P2	0	1.111172731	0	-10.36518	KRTAP22-1	1.100642416	0	0	-12.94977
HSPE1P21	0	1.111172731	0	-10.36518	PRR27	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LCN10	1.100642416	0	0	-12.94977
HADHBP1	0	1.111172731	0	-10.36518	FAM230D	1.100642416	0	0	-12.94977
LRIG2-DT	0	1.111172731	0	-10.36518	NRN1L	1.100642416	0	0	-12.94977

LINC02778	0	1.111172731	0	-10.36518	SCGB1C1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	DAZ1	1.100642416	0	0	-12.94977
LINC02031	0	1.111172731	0	-10.36518	BSPH1	1.100642416	0	0	-12.94977
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PCDHA13	0	1.111172731	0	-10.36518	SPANXN4	1.100642416	0	0	-12.94977
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ALDOAP1	0	1.111172731	0	-10.36518	RNA5SP68	1.100642416	0	0	-12.94977
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PRR5-ARHG	0	1.111172731	0	-10.36518	HLA-F	1.100642416	0	0	-12.94977
TUBAP10	0	1.111172731	0	-10.36518	C9orf57	1.100642416	0	0	-12.94977
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GAPDHP70	0	1.111172731	0	-10.36518	RNU1-28P	1.100642416	0	0	-12.94977
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MYLK-AS2	0	1.111172731	0	-10.36518	RNU6-3P	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	TRBV5-3	1.100642416	0	0	-12.94977
MESTP3	0	1.111172731	0	-10.36518	TRBJ2-7	1.100642416	0	0	-12.94977
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HMMR-AS1	0	1.111172731	0	-10.36518	IGHV1-3	1.100642416	0	0	-12.94977
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TPTE2P7	0	1.111172731	0	-10.36518	RNU6-1321P	1.100642416	0	0	-12.94977
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RNU7-84P	0	1.111172731	0	-10.36518	GAPDHP36	1.100642416	0	0	-12.94977
RN7SKP164	0	1.111172731	0	-10.36518	RPL8P4	1.100642416	0	0	-12.94977
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RNU7-40P	0	1.111172731	0	-10.36518	STRADBP1	1.100642416	0	0	-12.94977
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RNU6-231P	0	1.111172731	0	-10.36518	ATF4P1	1.100642416	0	0	-12.94977
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ADAM7-AS	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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SUMO2P20	0	1.111172731	0	-10.36518	SAPCD2P1	1.100642416	0	0	-12.94977
IGLVI-63	0	1.111172731	0	-10.36518	HMGB3P30	1.100642416	0	0	-12.94977
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KRT18P37	0	1.111172731	0	-10.36518	EIF1P7	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	RPL32P11	1.100642416	0	0	-12.94977
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CHKB-CPT1	0	1.111172731	0	-10.36518	RPSAP61	1.100642416	0	0	-12.94977
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NAV2-AS4	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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MTCYBP41	0	1.111172731	0	-10.36518	NGRNP1	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	PAFAH1B1P	1.100642416	0	0	-12.94977
LINC02748	0	1.111172731	0	-10.36518	RPL18P10	1.100642416	0	0	-12.94977
GLYATL1P1	0	1.111172731	0	-10.36518	EIF4EP5	1.100642416	0	0	-12.94977
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MRGPRX5P	0	1.111172731	0	-10.36518	XRCC6P5	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	CFL1P6	1.100642416	0	0	-12.94977
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FOLR1P1	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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PCNX4-DT	0	1.111172731	0	-10.36518	GSTM2P1	1.100642416	0	0	-12.94977
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DIO2-AS1	0	1.111172731	0	-10.36518	CCNG1P1	1.100642416	0	0	-12.94977
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KLF8P1	0	1.111172731	0	-10.36518	RNU4-62P	1.100642416	0	0	-12.94977
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EEF1A1P38	0	1.111172731	0	-10.36518	TRBV29OR9	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
PPM1J-DT	0	1.111172731	0	-10.36518	USP17L2	1.100642416	0	0	-12.94977
SLC25A1P4	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
SUB1P3	0	1.111172731	0	-10.36518	ZBTB24-DT	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	TVP23CP1	1.100642416	0	0	-12.94977
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NQO1-DT	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	CACNA2D1-	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LGALS8-AS1	1.100642416	0	0	-12.94977
SAMD11P1	0	1.111172731	0	-10.36518	RPL29P8	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PPIAP89	1.100642416	0	0	-12.94977
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LINC02002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
MIR4802	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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LINC01894	0	1.111172731	0	-10.36518	DMTF1-AS1	1.100642416	0	0	-12.94977
MIR4671	0	1.111172731	0	-10.36518	EGFR-AS1	1.100642416	0	0	-12.94977
NCMAP-DT	0	1.111172731	0	-10.36518	ARSLP1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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PCAT18	0	1.111172731	0	-10.36518	SNX18P9	1.100642416	0	0	-12.94977
MIR4782	0	1.111172731	0	-10.36518	PHEX-AS1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PRPF4BP1	1.100642416	0	0	-12.94977
MIR5704	0	1.111172731	0	-10.36518	VSTM2A-OT	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	HAUS1P2	1.100642416	0	0	-12.94977
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RN7SL574P	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
GRAMD4P7	0	1.111172731	0	-10.36518	RPL12P14	1.100642416	0	0	-12.94977
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RN7SL48P	0	1.111172731	0	-10.36518	LINC00539	1.100642416	0	0	-12.94977
RPSAP67	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	HTR2A-AS1	1.100642416	0	0	-12.94977
LINC01532	0	1.111172731	0	-10.36518	NEFMP1	1.100642416	0	0	-12.94977
NTF6A	0	1.111172731	0	-10.36518	LINC02671	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	TEX26-AS1	1.100642416	0	0	-12.94977
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SDHDP1	0	1.111172731	0	-10.36518	FDPSP8	1.100642416	0	0	-12.94977
LINC01255	0	1.111172731	0	-10.36518	ARL5AP4	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	COL4A2-AS2	1.100642416	0	0	-12.94977
CYP4F9P	0	1.111172731	0	-10.36518	RORB-AS1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC01398	1.100642416	0	0	-12.94977
LINC01836	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	ARL14EPP1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	SIGLEC30P	1.100642416	0	0	-12.94977
SHC1P2	0	1.111172731	0	-10.36518	RPL21P91	1.100642416	0	0	-12.94977
ERVK-28	0	1.111172731	0	-10.36518	EEDP1	1.100642416	0	0	-12.94977
LINC01999	0	1.111172731	0	-10.36518	PGM5-AS1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PFDN1P1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	MTND5P27	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	DPY19L2P5	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PNMA6F	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC00237	1.100642416	0	0	-12.94977
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HOMER3-AS	0	1.111172731	0	-10.36518	AKR1B1P6	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PCDH9-AS3	1.100642416	0	0	-12.94977
SIGLEC27P	0	1.111172731	0	-10.36518	LINC00705	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	RPL21P27	1.100642416	0	0	-12.94977
OR7A3P	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	HMGB3P1	1.100642416	0	0	-12.94977
FARS2-AS1	0	1.111172731	0	-10.36518	SNX18P3	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	RPS15AP10	1.100642416	0	0	-12.94977
MICOS10-N	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
IMMP1LP1	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	TPI1P4	1.100642416	0	0	-12.94977
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OR7E108P	0	1.111172731	0	-10.36518	AIFM1P1	1.100642416	0	0	-12.94977

IGHV3OR16	0	1.111172731	0	-10.36518	UBE2D3P2	1.100642416	0	0	-12.94977
ECM1P1	0	1.111172731	0	-10.36518	LINC01492	1.100642416	0	0	-12.94977
PRMT1P1	0	1.111172731	0	-10.36518	PA2G4P5	1.100642416	0	0	-12.94977
THAP5P2	0	1.111172731	0	-10.36518	IPPKP1	1.100642416	0	0	-12.94977
OOEPP1	0	1.111172731	0	-10.36518	CCDC13-AS1	1.100642416	0	0	-12.94977
SRD5A3P1	0	1.111172731	0	-10.36518	RPL14P2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	IPO7P2	1.100642416	0	0	-12.94977
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BRDTP1	0	1.111172731	0	-10.36518	LINC01389	1.100642416	0	0	-12.94977
LAPTM4BP2	0	1.111172731	0	-10.36518	WARS1P1	1.100642416	0	0	-12.94977
COPS8P1	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
LINC02333	0	1.111172731	0	-10.36518	S1PR1-DT	1.100642416	0	0	-12.94977
RPL17P3	0	1.111172731	0	-10.36518	RIOK3P1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ANKRD44-D	1.100642416	0	0	-12.94977
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LINC02637	0	1.111172731	0	-10.36518	PGBD4P6	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PHKG1P1	1.100642416	0	0	-12.94977
OR1X1P	0	1.111172731	0	-10.36518	USP12PX	1.100642416	0	0	-12.94977
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OR7E39P	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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MIR6776	0	1.111172731	0	-10.36518	KRT18P24	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ISM1-AS1	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	PPP1R15B-A	1.100642416	0	0	-12.94977
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TBC1D3D	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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MIR6761	0	1.111172731	0	-10.36518	GAPDHP32	1.100642416	0	0	-12.94977
BALR6	0	1.111172731	0	-10.36518	RPL7AP51	1.100642416	0	0	-12.94977
KMT2CP3	0	1.111172731	0	-10.36518	ACTR3BP2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ADIPOQ-AS1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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PIP4K2B	0	1.111172731	0	-10.36518	LINC00343	1.100642416	0	0	-12.94977
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GOLGA6L17	0	1.111172731	0	-10.36518	LINC01509	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	MYL6P3	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PGBP	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	RPL21P31	1.100642416	0	0	-12.94977
OR51G1	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	RABGAP1L-I	1.100642416	0	0	-12.94977
OR10A6	0	1.111172731	0	-10.36518	RPL21P82	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	MROCKI	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	USP17L12	1.100642416	0	0	-12.94977
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NCOR1P4	0	1.111172731	0	-10.36518	RPL36AP31	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	RPL3P2	1.100642416	0	0	-12.94977

CCAT2	0	1.111172731	0	-10.36518	NR1H5P	1.100642416	0	0	-12.94977
LINC00506	0	1.111172731	0	-10.36518	RAPGEF4-AS	1.100642416	0	0	-12.94977
CICP14	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
DNAJB5-DT	0	1.111172731	0	-10.36518	GLRXP1	1.100642416	0	0	-12.94977
HERC2P7	0	1.111172731	0	-10.36518	TXNP5	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC00392	1.100642416	0	0	-12.94977
C13orf46	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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CNTNAP3C	0	1.111172731	0	-10.36518	CYP2C59P	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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OR4C48P	0	1.111172731	0	-10.36518	LYPLAL1-AS	1.100642416	0	0	-12.94977
MIR555	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	MACC1-AS1	1.100642416	0	0	-12.94977
TAF11L13	0	1.111172731	0	-10.36518	HK2P1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
OR4F16	0	1.111172731	0	-10.36518	TRGV5P	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	NANOGP2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	TTC3-AS1	1.100642416	0	0	-12.94977
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LINC02929	0	1.111172731	0	-10.36518	EIF4BP2	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC01939	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PIK3IP1-DT	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	CSP1	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC01038	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC01788	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ELOCP20	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	GDI2P1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LRRC37A12I	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC02526	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC01159	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC00399	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	CCNB1IP1P1	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	PYHIN5P	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	EEF1A1-AS1	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	GTF3AP6	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	HINT2P1	1.100642416	0	0	-12.94977
ANKRD33B	0	1.111172731	0	-10.36518	LINC01349	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	LINC01786	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	CLUHP5	1.100642416	0	0	-12.94977
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ENSG000002	0	1.111172731	0	-10.36518	LINC01799	1.100642416	0	0	-12.94977
CTAGE4	0	1.111172731	0	-10.36518	FAM133DP	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	ZNF32-AS2	1.100642416	0	0	-12.94977
ENSG000002	0	1.111172731	0	-10.36518	FAM136EP	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	LINC02541	1.100642416	0	0	-12.94977
ENSG00000	0	1.111172731	0	-10.36518	HNRNPA1P6	1.100642416	0	0	-12.94977
HSD17B7P2	0	1.111172731	0	-10.36518	AURKBP1	1.100642416	0	0	-12.94977
FAM238A	0	1.111172731	0	-10.36518	GPS2P2	1.100642416	0	0	-12.94977
ENSG00000	0	1.111172731	0	-10.36518	ENSG000002	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	RPS27P10	1.100642416	0	0	-12.94977
ENSG00000	0	1.111172731	0	-10.36518	FARSBP1	1.100642416	0	0	-12.94977
ENSG00000	0	1.111172731	0	-10.36518	OR52Y1P	1.100642416	0	0	-12.94977
NXF4	0	1.111172731	0	-10.36518	HCG18	1.100642416	0	0	-12.94977
UBBP4	0	1.111172731	0	-10.36518	NDUFB4P3	1.100642416	0	0	-12.94977
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ENSG00000	0	1.111172731	0	-10.36518	RBM22P5	1.100642416	0	0	-12.94977
SEPTIN7P11	0	1.111172731	0	-10.36518	RPL7P56	1.100642416	0	0	-12.94977
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ASMTL-AS1	0	1.111172731	0	-10.36518	LINC01423	1.100642416	0	0	-12.94977
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					PSMC1P3	1.100642416	0	0	-12.94977
					TRERNA1	1.100642416	0	0	-12.94977
					E2F4P1	1.100642416	0	0	-12.94977
					VDAC1P6	1.100642416	0	0	-12.94977
					BEND3P1	1.100642416	0	0	-12.94977
					MOB4P1	1.100642416	0	0	-12.94977
					FMN2P1	1.100642416	0	0	-12.94977
					RPL39P15	1.100642416	0	0	-12.94977
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					RB1-DT	1.100642416	0	0	-12.94977
					CBX1P5	1.100642416	0	0	-12.94977
					CLEC12A-AS	1.100642416	0	0	-12.94977
					MTCO2P20	1.100642416	0	0	-12.94977
					RPS29P7	1.100642416	0	0	-12.94977
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					LINC02818	1.100642416	0	0	-12.94977
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					FERP1	1.100642416	0	0	-12.94977
					ENSG000002	1.100642416	0	0	-12.94977
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					GOLGA8N	1.100642416	0	0	-12.94977
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LMLN-AS1	1.100642416	0	0	-12.94977
KAT7P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
USP12PY	1.100642416	0	0	-12.94977
GGCTP2	1.100642416	0	0	-12.94977
ZNF519P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
TBC1D26-AS	1.100642416	0	0	-12.94977
EEF1A1P14	1.100642416	0	0	-12.94977
ZFY-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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GLCCI1-DT	1.100642416	0	0	-12.94977
SORBS2-AS1	1.100642416	0	0	-12.94977
FAM90A11P	1.100642416	0	0	-12.94977
VN1R20P	1.100642416	0	0	-12.94977
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NPEPPSP2	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
RPS24P6	1.100642416	0	0	-12.94977
GRPEL2P1	1.100642416	0	0	-12.94977
MROH3P	1.100642416	0	0	-12.94977
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OSTN-AS1	1.100642416	0	0	-12.94977
HMGA1P5	1.100642416	0	0	-12.94977
TLR8-AS1	1.100642416	0	0	-12.94977
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CNIH3-AS2	1.100642416	0	0	-12.94977
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HAX1P1	1.100642416	0	0	-12.94977
ST6GALNAC	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
CDHR17P	1.100642416	0	0	-12.94977
HNRNPA1P6	1.100642416	0	0	-12.94977
OR52E7P	1.100642416	0	0	-12.94977
MTND2P29	1.100642416	0	0	-12.94977
RPL10P19	1.100642416	0	0	-12.94977
USH2A-AS2	1.100642416	0	0	-12.94977
PANTR1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
LINC01765	1.100642416	0	0	-12.94977
CDC27P1	1.100642416	0	0	-12.94977
MIR4280HG	1.100642416	0	0	-12.94977
POU6F2-AS2	1.100642416	0	0	-12.94977
TOR1BP1	1.100642416	0	0	-12.94977
RPL7P44	1.100642416	0	0	-12.94977
EZR-AS1	1.100642416	0	0	-12.94977
FTLP15	1.100642416	0	0	-12.94977
AHCYP3	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
LINC00463	1.100642416	0	0	-12.94977
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TRIM26	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ZFX-AS1	1.100642416	0	0	-12.94977
DNAJB6P6	1.100642416	0	0	-12.94977
RPL7P13	1.100642416	0	0	-12.94977
MAP3K5-AS	1.100642416	0	0	-12.94977
LINC01723	1.100642416	0	0	-12.94977
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ELK2BP	1.100642416	0	0	-12.94977
CICP13	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
LINC01309	1.100642416	0	0	-12.94977
OR10G8	1.100642416	0	0	-12.94977
BIN2P1	1.100642416	0	0	-12.94977
RAD1P1	1.100642416	0	0	-12.94977
CTSLP8	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
PCCA-AS1	1.100642416	0	0	-12.94977
LRRTM4-AS	1.100642416	0	0	-12.94977
MTCYBP5	1.100642416	0	0	-12.94977
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NUS1P2	1.100642416	0	0	-12.94977
SEC61G-DT	1.100642416	0	0	-12.94977
HDAC1P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
LINC01052	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
NXT1-AS1	1.100642416	0	0	-12.94977
RPS26P30	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
MTND2P18	1.100642416	0	0	-12.94977
AARSD1P1	1.100642416	0	0	-12.94977
RPL7AP20	1.100642416	0	0	-12.94977
FMO10P	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
MLIP-AS1	1.100642416	0	0	-12.94977
RPL24P2	1.100642416	0	0	-12.94977
GAPDHP52	1.100642416	0	0	-12.94977

SETP9	1.100642416	0	0	-12.94977
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MICOS10-DT	1.100642416	0	0	-12.94977
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TBC1D3P3	1.100642416	0	0	-12.94977
ACTRT1P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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RPL29P30	1.100642416	0	0	-12.94977
ZSWIM5P1	1.100642416	0	0	-12.94977
RNF186-AS1	1.100642416	0	0	-12.94977
RPS26P31	1.100642416	0	0	-12.94977
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DOCK7-DT	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
MXRA5Y	1.100642416	0	0	-12.94977
CUBNP3	1.100642416	0	0	-12.94977
PSMD14-DT	1.100642416	0	0	-12.94977
LINC02250	1.100642416	0	0	-12.94977
LINC02784	1.100642416	0	0	-12.94977
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CNN2P3	1.100642416	0	0	-12.94977
KIF3AP1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
CTBP2P1	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
PRELID3BP1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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PRADC1P1	1.100642416	0	0	-12.94977
RPL12P26	1.100642416	0	0	-12.94977
GJA6P	1.100642416	0	0	-12.94977
SLC25A3P1	1.100642416	0	0	-12.94977
NPM1P8	1.100642416	0	0	-12.94977
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DLX2-DT	1.100642416	0	0	-12.94977
MTX1P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
HNRNPA1P4	1.100642416	0	0	-12.94977
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CNOT4P1	1.100642416	0	0	-12.94977
SDK1-AS1	1.100642416	0	0	-12.94977
LINC01844	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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COX7A2P2	1.100642416	0	0	-12.94977
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BCRP8	1.100642416	0	0	-12.94977
GAPDHP2	1.100642416	0	0	-12.94977
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PPIAP36	1.100642416	0	0	-12.94977
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GAPDHP51	1.100642416	0	0	-12.94977
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LINC01812	1.100642416	0	0	-12.94977
CASP3P1	1.100642416	0	0	-12.94977
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CATIP-AS2	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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OR2L9P	1.100642416	0	0	-12.94977
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MTCO3P17	1.100642416	0	0	-12.94977
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HMGN1P32	1.100642416	0	0	-12.94977
GCNT1P5	1.100642416	0	0	-12.94977
ANKRD26P3	1.100642416	0	0	-12.94977
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GSTA7P	1.100642416	0	0	-12.94977
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EEF1A1P28	1.100642416	0	0	-12.94977
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POU5F1P4	1.100642416	0	0	-12.94977
LINC00398	1.100642416	0	0	-12.94977
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ODAD2P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
SPATA3-AS1	1.100642416	0	0	-12.94977
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SLC9A3P2	1.100642416	0	0	-12.94977
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RPS2P35	1.100642416	0	0	-12.94977
RPL21P34	1.100642416	0	0	-12.94977
ENOX1-AS2	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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LINC01210	1.100642416	0	0	-12.94977
RPS23P7	1.100642416	0	0	-12.94977
SETP11	1.100642416	0	0	-12.94977
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HLTF-AS1	1.100642416	0	0	-12.94977
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RPS4XP22	1.100642416	0	0	-12.94977
PARLP1	1.100642416	0	0	-12.94977
PRDX3P4	1.100642416	0	0	-12.94977
ZBTB20-AS3	1.100642416	0	0	-12.94977
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STIM2-AS1	1.100642416	0	0	-12.94977
LINC02004	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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RPL21P117	1.100642416	0	0	-12.94977
GAPDHP33	1.100642416	0	0	-12.94977
TCAM1P	1.100642416	0	0	-12.94977
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TM4SF1-AS1	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
LINC01994	1.100642416	0	0	-12.94977
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ARHGAP31-ا	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
WDR82P2	1.100642416	0	0	-12.94977
IGKV3-11	1.100642416	0	0	-12.94977

PLSCR5-AS1	1.100642416	0	0	-12.94977
ZBTB20-AS1	1.100642416	0	0	-12.94977
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CADM2-AS2	1.100642416	0	0	-12.94977
GM2AP1	1.100642416	0	0	-12.94977
IGKV1-9	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
RNF13P1	1.100642416	0	0	-12.94977
SERBP1P3	1.100642416	0	0	-12.94977
HOXB-AS4	1.100642416	0	0	-12.94977
RPL15P7	1.100642416	0	0	-12.94977
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UPK3BP1	1.100642416	0	0	-12.94977
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MTCO3P35	1.100642416	0	0	-12.94977
FLNC-AS1	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
CFAP20DC-I	1.100642416	0	0	-12.94977
RPL23AP49	1.100642416	0	0	-12.94977
INGX	1.100642416	0	0	-12.94977
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RN7SL542P	1.100642416	0	0	-12.94977
OR13C7	1.100642416	0	0	-12.94977
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CACNA2D3-	1.100642416	0	0	-12.94977
OR7E89P	1.100642416	0	0	-12.94977
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PSMC1P7	1.100642416	0	0	-12.94977
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FAM20BP1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
TM4SF18-AS	1.100642416	0	0	-12.94977
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POLR2DP2	1.100642416	0	0	-12.94977
RPL21P120	1.100642416	0	0	-12.94977
PSPC1P2	1.100642416	0	0	-12.94977
NT5C3AP2	1.100642416	0	0	-12.94977
RPSAP29	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
SMARCA5-A	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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PLA2G4E-AS	1.100642416	0	0	-12.94977
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SNCA-AS1	1.100642416	0	0	-12.94977
DGAT2-DT	1.100642416	0	0	-12.94977
INSL3	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
TUB-AS1	1.100642416	0	0	-12.94977
ST13P12	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
FGF10-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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LINC02267	1.100642416	0	0	-12.94977
LINC01339	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ANKRD49P3	1.100642416	0	0	-12.94977

LINC02100	1.100642416	0	0	-12.94977
LINC02144	1.100642416	0	0	-12.94977
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PSMC1P4	1.100642416	0	0	-12.94977
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LINC02511	1.100642416	0	0	-12.94977
SEPTIN7P10	1.100642416	0	0	-12.94977
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SLC25A15P5	1.100642416	0	0	-12.94977
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NEUROG2-A	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
MIR302CHG	1.100642416	0	0	-12.94977
EEF1A1P21	1.100642416	0	0	-12.94977
RCC2P4	1.100642416	0	0	-12.94977
MTATP6P22	1.100642416	0	0	-12.94977
TUBA3GP	1.100642416	0	0	-12.94977
MTND6P17	1.100642416	0	0	-12.94977
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LINC02147	1.100642416	0	0	-12.94977
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LINC02501	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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GBA3	1.100642416	0	0	-12.94977
CDC42P4	1.100642416	0	0	-12.94977
IGKV1D-37	1.100642416	0	0	-12.94977
CBX3P3	1.100642416	0	0	-12.94977
SH3TC2-DT	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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NREP-AS1	1.100642416	0	0	-12.94977
PANCR	1.100642416	0	0	-12.94977
RHOQ-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
GAPDHP43	1.100642416	0	0	-12.94977
HOXC-AS2	1.100642416	0	0	-12.94977
SLC1A3-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
LINC02199	1.100642416	0	0	-12.94977
TRIM60P14	1.100642416	0	0	-12.94977
USP17L16P	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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FTLP10	1.100642416	0	0	-12.94977
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LINC02121	1.100642416	0	0	-12.94977
HPRT1P2	1.100642416	0	0	-12.94977
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OR7E41P	1.100642416	0	0	-12.94977
HNRNPKP5	1.100642416	0	0	-12.94977
LINC02269	1.100642416	0	0	-12.94977
TPM3P6	1.100642416	0	0	-12.94977
MSRB3-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ALG1L12P	1.100642416	0	0	-12.94977
CIDECP2	1.100642416	0	0	-12.94977
LSM3P4	1.100642416	0	0	-12.94977
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MESTP3	1.100642416	0	0	-12.94977
RMEL3	1.100642416	0	0	-12.94977
SLC25A30-A	1.100642416	0	0	-12.94977
NDUFB5P1	1.100642416	0	0	-12.94977
PRKG2-AS1	1.100642416	0	0	-12.94977
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NUDT19P5	1.100642416	0	0	-12.94977
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PDCD5P2	1.100642416	0	0	-12.94977
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RFPL4AP3	1.100642416	0	0	-12.94977
PSMA2P2	1.100642416	0	0	-12.94977
GTF2F2P1	1.100642416	0	0	-12.94977
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YTHDF1P1	1.100642416	0	0	-12.94977
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SNORA72.2	1.100642416	0	0	-12.94977
RNA5SP262	1.100642416	0	0	-12.94977
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RNA5SP82	1.100642416	0	0	-12.94977
RNU6-783P	1.100642416	0	0	-12.94977
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RNU6-678P	1.100642416	0	0	-12.94977
RNA5SP75	1.100642416	0	0	-12.94977
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RN7SKP96	1.100642416	0	0	-12.94977
RNU6-148P	1.100642416	0	0	-12.94977
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RNU6-762P	1.100642416	0	0	-12.94977
RN7SKP258	1.100642416	0	0	-12.94977
RNU1-54P	1.100642416	0	0	-12.94977
RNU6-667P	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
RNA5SP373	1.100642416	0	0	-12.94977
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ADAM7-AS1	1.100642416	0	0	-12.94977
IGLVVI-22-1	1.100642416	0	0	-12.94977
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CYP4F44P	1.100642416	0	0	-12.94977
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LINC02995	1.100642416	0	0	-12.94977
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IGHV3-71	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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LINC03018	1.100642416	0	0	-12.94977
PPIAP84	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
OR4A3P	1.100642416	0	0	-12.94977

OR2AT1P	1.100642416	0	0	-12.94977
LINC02547	1.100642416	0	0	-12.94977
CHMP4A	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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OR4R3P	1.100642416	0	0	-12.94977
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OR10G4	1.100642416	0	0	-12.94977
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GVINP2	1.100642416	0	0	-12.94977
ANO3-AS1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
OR4A9P	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
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FAM66D	1.100642416	0	0	-12.94977
OSBPL9P3	1.100642416	0	0	-12.94977
CENPUP1	1.100642416	0	0	-12.94977
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SLC5A4P1	1.100642416	0	0	-12.94977
GLTPP1	1.100642416	0	0	-12.94977
ANKRD33BF	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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NPM1P35	1.100642416	0	0	-12.94977
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RRM1-AS1	1.100642416	0	0	-12.94977
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MRPS18CP4	1.100642416	0	0	-12.94977
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KRT8P11	1.100642416	0	0	-12.94977
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DENND5B-A	1.100642416	0	0	-12.94977
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LINC02446	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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ITFG2-AS1	1.100642416	0	0	-12.94977
OOEPP2	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
LINC02282	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
EEF1B2P4	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
NUBPL-DT	1.100642416	0	0	-12.94977
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ADCY6-DT	1.100642416	0	0	-12.94977
BTBD10P1	1.100642416	0	0	-12.94977
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HIGD1AP1	1.100642416	0	0	-12.94977
ARL2BPP2	1.100642416	0	0	-12.94977
LINC02286	1.100642416	0	0	-12.94977
PPIAP45	1.100642416	0	0	-12.94977
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PPIAP44	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
SYF2P1	1.100642416	0	0	-12.94977
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LINC01579	1.100642416	0	0	-12.94977
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CKS1BP1	1.100642416	0	0	-12.94977
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AHCYP7	1.100642416	0	0	-12.94977
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LINC00052	1.100642416	0	0	-12.94977
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DISC1FP1	1.100642416	0	0	-12.94977
FOXF2-DT	1.100642416	0	0	-12.94977
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C19orf84	1.100642416	0	0	-12.94977
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L3MBTL4-AS	1.100642416	0	0	-12.94977
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MIR3612	1.100642416	0	0	-12.94977
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RN7SL311P	1.100642416	0	0	-12.94977
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MIR3617	1.100642416	0	0	-12.94977
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MIR3665	1.100642416	0	0	-12.94977
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RN7SL118P	1.100642416	0	0	-12.94977
HELZ-AS1	1.100642416	0	0	-12.94977
LONRF2P1	1.100642416	0	0	-12.94977
OR4K8P	1.100642416	0	0	-12.94977
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AIRN	1.100642416	0	0	-12.94977
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RAET1E-AS1	1.100642416	0	0	-12.94977
CTAG1A	1.100642416	0	0	-12.94977
MIMT1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
HSFX2	1.100642416	0	0	-12.94977
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LIF-AS2	1.100642416	0	0	-12.94977
SIGLEC22P	1.100642416	0	0	-12.94977
LINC01838	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
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LINC00528	1.100642416	0	0	-12.94977
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ENSG000002	1.100642416	0	0	-12.94977
PDE4DIPP4	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
UBE2Q2P1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
MPHOSPH10	1.100642416	0	0	-12.94977
C3P1.1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
ANKRD20A1	1.100642416	0	0	-12.94977
ENSG000002	1.100642416	0	0	-12.94977
SHOX	1.100642416	0	0	-12.94977

Supplementary Table 5. Number of peptides and proteins identified in each tissue for each replicate by mass spectrometry.

Sample	Replicate	# Peptides	# Proteins
Primary Ad	1	3,641	1,515
	2	3,397	1,446
	3	3,169	1,397
Dura Ad	1	10,635	3,019
	2	10,582	2,955
	3	10,513	2,972
Brain NEPC	1	12,134	4,105
	2	12,039	4,111
	3	12,113	4,134

Supplementary Table 6. Peptides identified by mass spectrometry by intensity values.

Peptide	Gene_Name	UniProt_ID	Description	Modifications	Brain NEPC #1	Brain NEPC #2	Brain NEPC #3	Dura Ad #1	Dura Ad #2	Dura Ad #3	Primary Ad #1	Primary Ad #2	Primary Ad #3
AAAAAAAAAAAAAAAAGAGAGAK	SLC12A2; SLC12A2	P55011; G3XAL9	S12A2 HUM/	Unmodified	0	0	485930	40870	47473	46562	0	0	0
AAAAAAAAAAAATGTEAGPGTAGGSENGSEVAAQPAGLSGPAEVGPG	KDM1A; KDM1A	O60341; R4GMQ	KDM1A HUN	Deamidation (N)	1773900	2540900	2173700	0	0	0	0	0	0
AAAAAAAAAVSR	ZFP91; ZFP91-CNTF	Q96JP5; A0A0A6	ZFP91 HUM/	Unmodified	1439700	1674000	1688100	31750	0	48220	0	0	0
AAAAAAAAVPSAGPAGPAPTSAAGR	IRS2	Q9Y4H2	IRS2 HUMA	Unmodified	0	1459700	0	84848	57592	97398	35290	40637	34388
AAAAAAALQAK	RPL4; RPL4; RPL4	P36578; H3BU31	RL4 HUMAN	Unmodified	6509700	6757300	6786400	217980	139810	218530	0	0	0
AAAAAAAPSGGGGGGEEERLEEK	MECP2	B5MCB4	B5MCB4 HU	Acetyl (Protein N-t	0	1013700	1143600	272650	222530	215780	0	0	66300
AAAAAAGAGPEMVRGQVFDVGPR	MAPK1	P28482	MK01 HUMA	Acetyl (Protein N-t	1549800	1525400	1059300	2358100	2306100	1217400	0	833560	1797300
AAAAAAGPSPGSGPGDSPEGPEGEAPERR	VPS51; VPS51; VPS5	Q9UID3; A0A1W	VPS51 HUM/	Acetyl (Protein N-t	1244400	1119600	1099100	0	0	247010	0	0	0
AAAAAATAPPSPGPAQPGPR	SAMD1	Q6SPF0	SAMD1 HUM	Unmodified	1556300	1642700	0	132590	108960	134610	31995	0	25062
AAAAADLANR	CLPX	O76031	CLPX HUMA	Unmodified	0	0	395480	0	0	0	0	0	0
AAAAALSQQQSLQER	CACTIN	Q8WUQ7	CATIN HUM	Unmodified	433390	0	0	0	0	24733	0	0	0
AAAAASAPQQLSDEELFSQLRR	LEMD3	Q9Y2U8	MAN1 HUM/	Acetyl (Protein N-t	4017800	0	2963000	0	0	0	0	0	0
AAAAATVVPPMVGGPPFVGPVGFGPGDR	RBM42; RBM42; RB	Q9BTD8; K7EP9(	RBM42 HUM	Oxidation (M)	0	990370	1234800	0	0	0	0	0	0
AAAAATVVPPMVGGPPFVGPVGFGPGDRSHLDSPEAR	RBM42; RBM42; RB	Q9BTD8; K7EP9(	RBM42 HUM	Oxidation (M)	0	0	6256900	0	0	0	0	0	0
AAAAAWEEPSSGNGTAR	RCC2	Q9P258	RCC2 HUMA	Deamidation (N)	3764400	3767400	2834600	416640	288590	342730	0	0	0
AAAAKPNNLSLVVHGPGDLR	SORD; SORD; SORD	Q00796; H0YKB3	DHSO HUM/	Acetyl (Protein N-t	964700	0	1114200	118460	155060	115840	39246	31886	37856
AAAAKPNNLSLVVHGPGDLR	SORD; SORD; SORD	Q00796; H0YKB3	DHSO HUM/	Acetyl (Protein N-t	1263100	1256800	0	965850	706390	388510	133190	0	0
AAAAPAATTATPPPEGAPPQPGVHNLPVPTLFGTVK	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4 HUM	Unmodified	3296600	2418300	2718100	0	0	0	0	0	0
AAAAPGASPSPGGDAAWSEAGPGPR	MSH6; MSH6; MSH6	P52701; F8WAX8	MSH6 HUM/	Unmodified	1499400	0	1199600	0	0	0	0	0	0
AAAAPGASPSPGGDAAWSEAGPGPRPLAR	MSH6; MSH6; MSH6	P52701; F8WAX8	MSH6 HUM/	Unmodified	31431000	27389000	25082000	0	0	401890	0	0	0
AAAAPGNGRASAPR	TMEM165; TMEM16	Q9HC07; D6RBL(	TM165 HUM	Acetyl (Protein N-t	1961000	1587900	0	175270	150540	128310	0	0	0
AAAAPVAADDDERRR	RABEP2; RABEP2	Q9H5N1; B4DHR(	RABE2 HUM	Acetyl (Protein N-t	444020	336030	524430	48145	52722	40407	0	0	0
AAAASAAEAGIATTGTEDSDDALLK	PSMD4; PIPSL; PSM	P55036; A2A3N6;	PSMD4 HUM	Unmodified	1921200	1797900	1926900	80919	51357	40276	0	0	0
AAAASAAEAGIATTGTEDSDDALLKMTISQQEFGR	PSMD4; PSMD4	P55036; H0Y3Y9	PSMD4 HUM	Oxidation (M)	2201800	1915200	0	0	0	0	0	0	0
AAAAVSESWPELELAERER	LRRC47	Q8N1G4	LRC47 HUM	Acetyl (Protein N-t	3556000	2329800	3931000	0	0	0	0	0	0
AAAAVVAAAAR	TRUB1	Q8WWH5	TRUB1 HUM	Unmodified	1163900	1107800	1276400	104040	0	59931	0	0	0
AAADGGGPGGASVGTEEDGGGVGHR	SMCHD1	A6NHR9	SMHD1 HUM/	Acetyl (Protein N-t	1702900	603660	465810	64240	23121	0	0	0	0
AAADSDPNLDPLMNPHIR	ZFPL1	O95159	ZFPL1 HUM/	Oxidation (M)	1202400	1393400	1709900	76492	76833	49996	0	0	0
AAAEAAAEAK	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2 HUM	Unmodified	3125800	1946200	4482100	41246	83720	74773	0	0	0
AAAEDVNVTFEDQQK	PFDN4; PFDN4	Q9NQP4; E9PQY	PFD4 HUMA	Unmodified	2625800	3539800	2497900	18834	17603	0	0	0	0
AAAEDVNVTFEDQQKINK	PFDN4; PFDN4	Q9NQP4; E9PQY	PFD4 HUMA	Unmodified	0	2592700	3553900	0	0	0	0	0	0
AAAEDVNVTFEDQQKINKFAR	PFDN4; PFDN4	Q9NQP4; E9PQY	PFD4 HUMA	Unmodified	0	2134800	0	95412	0	0	44050	0	0
AAAEELLAR	INPPL1	O15357	SHIP2 HUMA	Unmodified	5475900	6557900	4285700	90086	81304	127620	0	0	0
AAAEQAISVR	EXOSC10	Q01780	EXOSX HUM	Unmodified	552480	416210	820260	0	0	0	0	0	0
AAAESAEAQTIR	TOX3	O15405	TOX3 HUMA	Unmodified	833650	503200	647240	0	0	0	0	0	0
AAAEVNQDYGLDPK	FH	P07954	FUMH HUM	Unmodified	1485700	1017400	1342600	0	67210	0	0	49196	0
AAAEVNQDYGLDPK	FH	P07954	FUMH HUM/	Deamidation (N)	1051500	697050	0	0	0	0	0	0	0
AAAFEEQENETVVVKEK	TLN1	Q9Y490	TLN1 HUMA	Unmodified	1825800	0	0	0	0	36954	0	0	0
AAAFEQLQK	TOMM70	O94826	TOM70 HUM	Unmodified	6106500	5975800	6056000	0	0	0	0	0	0
AAAGGQGSAVAAEAEPGKEEPPAR	EGLN1	Q9GZT9	EGLN1 HUM	Unmodified	970980	1368100	877520	0	0	0	0	0	0
AAAGLLPGGK	STRIP1	Q5VSL9	STRP1 HUM	Unmodified	2418200	2782100	2195800	255400	262220	257240	70838	28694	35306
AAAGQESEGPAVGPPQPLGK	ARID1A	O14497	AR11A HUM	Unmodified	1299900	1681600	1669000	0	0	0	0	16759	0
AAAGSAAGGFQR	ARID1B; ARID1B; A	Q8NFD5; A0A6I8	AR11B HUM	Unmodified	1587400	1893400	1872500	189740	0	142780	35431	0	0
AAAITSDILEALGR	POSTN; POSTN	Q15063; B1ALD9	POSTN HUM	Unmodified	630920	525660	139700	0	0	0	0	0	0
AAALEAMKDYTK	STIP1; STIP1	P31948; H0YGI8	STIP1 HUMA	Oxidation (M)	4871000	7154000	5328700	0	133170	77727	177980	46529	0
AAALEFLNR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1 HUMA	Unmodified	830630	517340	244910	0	0	0	0	0	0
AAALEFLNRFEEAK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1 HUMA	Deamidation (N)	665320	791160	0	0	0	0	0	0	0
AAALEFLNRFEEAK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1 HUMA	Unmodified	3000300	0	2844100	0	0	0	0	0	0
AAALEFLNRFEEAKR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1 HUMA	Unmodified	4846100	5694000	4016500	0	0	0	0	0	0
AAALEQFK	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM HUM	Unmodified	5271800	6076600	6657000	154910	129930	172000	0	0	0
AAALGASGGAGAGDDDFDQFDKPGAER	RBM33; RBM33	Q96EV2; A8MTF	RBM33 HUM	Acetyl (Protein N-t	1163200	859270	725640	93069	53028	47274	0	0	0
AAALGGPEDEPGAAEAHFLPR	MSL1; MSL1; MSL1	Q68DK7; J3KSZ8	MSL1 HUMA	Unmodified	2013400	0	0	58919	56111	76699	0	0	0
AAALVLQTIWGYKELR	CTNND1; CTNND1;	O60716; A0A669	CTND1 HUM	Unmodified	725110	792580	0	0	0	0	0	0	0
AAAMDVDTPSGTNSGAGKKR	RBX1	P62877	RBX1 HUMA	Acetyl (Protein N-t	961920	0	1277900	100340	0	0	0	0	0
AAAMLPTVGEGYGYGPESELSQASAATR	RBM4B	Q9BQ04	RBM4B HUM	Oxidation (M)	1570000	1565900	1131400	0	0	0	0	0	0
AAAMTPPEELKR	RAB3GAP1	Q15042	RB3GP HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
AAANEQLTR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19 HUM	Unmodified	6815400	7018100	7907700	1264800	1015300	1416100	0	0	13573
AAANEQLTR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19 HUM	Deamidation (N)	2825000	2540600	2660400	209010	249770	0	0	0	0
AAANPDLQGHLPSFQQSAFNR	KDM5A	P29375	KDM5A HUN	Unmodified	337040	296220	277000	0	0	0	0	0	0
AAAPGVEDEPDLLR	RRM2; RRM2; RRM	P31350; A0A7P0	RIR2 HUMA	Unmodified	1201300	1230000	1388500	0	0	0	0	0	0
AAAPLFTGFLVLHSEPR	MROH1; MROH1	Q8NDA8; E9PHY	MROH1 HUM	Unmodified	758970	660710	745500	0	0	0	0	0	0
AAAPQAWAGPMEEPPQAQAPPR	DBN1; DBN1	Q16643; D6R9Q9	DREB HUM/	Oxidation (M)	5864200	5634000	6839500	104640	43363	86853	0	0	0
AAAQETVR	HSD17B8	Q92506	DHB8 HUMA	Unmodified	0	704630	741220	67142	65058	0	0	0	0
AAAQLLQSQAQQSGAQQTK	SEPTIN11; SEPTIN1	Q9NVA2; H0Y96	SEP11 HUM/	Unmodified	2407800	3405300	2442100	98090	99666	86814	0	0	0
AAAQLLQSQAQQSGAQQTKK	SEPTIN11; SEPTIN1	Q9NVA2; H0Y96	SEP11 HUM/	Unmodified	0	923630	1026900	0	0	0	0	0	0
AAARHSTLDFMLGAK	SMS	P52788	SPSY HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	55410	0	91000
AAASTDYYK	PDHA1	P08559	ODPA HUM/	Unmodified	6707800	6417400	3760300	495120	396480	688890	0	0	0
AAATFTQEDVNLGLIR	FRAS1	Q86XX4	FRAS1 HUM	Unmodified	425520	257570	265800	0	0	0	0	0	0
AAATLMSER	SLC4A1	P02730	B3AT HUMA	Oxidation (M)	1491400	1482000	1310600	51701	42812	0	0	0	0
AAATMATPLPGR	LMNB2	Q03252	LMNB2 HUM	Oxidation (M)	1368700	2358500	1791400	1766400	1359000	1376600	175470	140480	0
AAATPESQEPQAK	MARCKSL1	P49006	MRP HUMA	Unmodified	7646900	7255100	8663100	485590	516410	0	0	0	0
AAATQPDAKDTPDEPWAFPAR	SND1	Q7KZF4	SND1 HUMA	Unmodified	1482400	2093700	1161200	0	0	21894	0	0	0
AAAVGTANK	VCL	P18206	VINC HUMA	Unmodified	602750	256390	0	119900	68968	124590	0	0	0
AAAVGTANKSTVEGIQASVK	VCL	P18206	VINC HUMA	Unmodified	999320	743090	774900	0	89700	70321	0	31074	0
AAAVLPVLDLAQR	NDUFV2; NDUFV2	P19404; E7EPT4	NDUV2 HUM	Unmodified	4488700	6133100	5827500	21898	16985	19150	0	0	0
AAAVSLENVLLDVKELQR	FMNL2; FMNL2	Q96PY5; C9IZY8	FMNL2 HUM	Unmodified	0	0	335950	0	0	0	0	0	0
AAAVSSGFDGAIQLVSLGGR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN HUM	Unmodified	2273300	1256500	1086100	0	0	0	17026	0	0
AADAEAEVASLNR	TPM3; TPM3; TPM3	P06753; J3KN67	TPM3 HUMA	Unmodified	0	0	0	0	557640	640280	0	0	0
AADALEEQQR	NUMA1; NUMA1; N	Q14980; F5H4J1	NUMA1 HUM	Unmodified	3476800	3994000	3669300	274060	224180	271180	0	0	0
AADAVEDLR	PACSIN2; PACSIN2	Q9UNF0; A0A0U	PACN2 HUM	Unmodified	1196500	1081900	1596500	91952	111700	108850	0	0	0
AADCEVEQWDSDEPIPAKELER	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR HUM	Unmodified	0	0	0	97712	110620	83716	0	0	0
AADDTWEPFASGK	TTR; TTR	P02766; A0A087	TTHY HUM	Unmodified	1201800	1189000	1001600	54764	0	0	0	27693	35386
AADEEAFEDNSEEYIR	CSE1L	P55060	XPO2 HUMA	Unmodified	0	0	0	0	0	0	0	0	0
AADEEAFEDNSEEYIR	CSE1L	P55060	XPO2 HUMA	Deamidation (N)	775830	1104000	977520	50587	42372	0	0	0	0
AADEEAFEDNSEEYIRR	CSE1L	P55060	XPO2 HUMA	Deamidation (N)	2405100	4909000	2982200	89597	71105	132270	0	0	0
AADEEAFEDNSEEYIRR	CSE1L	P55060	XPO2 HUMA	Unmodified	2039100	2514900	2658800	118450	151440	69553	0	0	0
AADEVAEGK	FH	P07954	FUMH HUM	Unmodified	0	0	0	0	0	0	0	0	0
AADEVLAEAK	CDC73; CDC73; CD	Q6P1J9; A0A2R8	CDC73 HUM	Unmodified	1067500	1218500	1055200	169410	0	137940	0	0	0
AADFIDQALAQKNGR	DUSP3	P51452	DUS3 HUMA	Deamidation (N)	800630	949930	699320	0	0	0	0	0	0
AADGPGDRFIIGESQAGEQPTQTVMPGQVMR	GPHN; GPHN	Q9NQX3; F5H039	GEPH HUMA	2 Oxidation (M)	3762200	933730	2816600	0	207180	163500	48591	0	28642
AADIDQEVK	CAND1	Q86VP6	CAND1 HUM	Unmodified	1058100	1497100	1148200	36118	25443	47346	0	0	0
AADIDQEVKER	CAND1	Q86VP6	CAND1 HUM	Unmodified	2208300	2688000	1792200	85505	85178	0	0	0	0
AADISLDNLVEGK	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B HUM	Unmodified	0	0	0	0	0	0	0	0	0
AADISLDNLVEGKR	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B HUM	Unmodified	875620	0	920520	0	72212	0	0	0	0
AADKLAPAQYIR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1 HUM/	Unmodified	5571800	5418000	4760200	581820	465800	421310	0	0	0
AADLKYIEACAR	UGDH; UGDH; UGD	O60701; E7ETF4;	UGDH HUM	Unmodified	0	0	0	250540	0	0	0	0	0
AADLLVNPLDPR	SRPK2; SRPK2	P78362; H7C5L6	SRPK2 HUM	Unmodified	0	910090	1070700	37957	64911	57694	0	0	11370
AADLQLEMTQKPHKKPGPGEPLVFGK	BCAT2; BCAT2; BC	O15382; M0QXF9	BCAT2 HUM	Oxidation (M)	642960	627940	860430	0	0	0	0	0	0
AADMGNPVGQSGLGMAYLYGR	SEL1L	Q9UBV2	SE1L1 HUM/	2 Oxidation (M)	1725600	1565700	1095100	128650	182390	158660	0	0	0
AADPGPGAELDPAAPPPAR	PPP1R12C; PPP1R12	Q9BZL4; K7EL81	PP12C HUM	Unmodified	543850	0	0	92072	93419	175810	0	0	0
AADRLPNLSSPSAEGPPGPPSGPAPR	TOM1	O60784	TOM1 HUM/	Unmodified	2636700	2512900	3086100	764350	695190	668100	276570	184990	236650
AADSLQQNLQR	KNOP1; KNOP1	Q1ED39; H3BNU	KNOP1 HUM	Unmodified	394850	831130	643640	0	0	0	0	0	0
AADTDGDGQVNYEEFVR	CALML3	P27482	CALL3 HUM	Unmodified	7963200	14519000	17253000	0	21168	26019	0	0	0
AADTDGDGQVNYEEFVR	CALML3	P27482	CALL3 HUM	Deamidation (N)	3774800	1214900	994980	0	0	0	0	0	0
AADVSVTHRPPLSPK	RAVER1; RAVER1;	Q8IY67; E9PAU2	RAVR1 HUM/	Acetyl (Protein N-t	1372500	1380900	1254000	173020	187070	187460	0	0	0
AAEAAAAPAESAAPAAGEEPSKEEGEPK	BASP1	P80723	BASP1 HUM	Unmodified	2054900	2756300	2085300	0	563010	564250	0	0	0
AAEAAAAPAESAAPAAGEEPSKEEGEPKKTEAPAAPAAQETK	BASP1	P80723	BASP1 HUM	Unmodified	1506100	1261100	0	123290	156200	0	0	0	0
AAEAADLGLGAAVPVELRR	GTF3C5; GTF3C5	Q9Y5Q8; Q5T7U1	TF3C5 HUM/	Acetyl (Protein N-t	3762600	2056700	2957300	0	0	0	26422	0	0
AAEAAGGKYR	EXOC4	Q96A65	EXOC4 HUM	Acetyl (Protein N-t	365620	1174500	821090	0	625500	0	0	0	0
AAEAAINILK	PRKRA; PRKRA; PR	O75569; A0A7Z4	PRKRA HUM	Unmodified	5495500	4368400	4448800	62635	60469	76141	0	0	0
AAEAAPPTQEAQGETEPTEQAPDALEQAADTSRR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2 HUM	Unmodified	1361400	1524000	1521500	188760	0	0	0	0	0
AAEADGPLKR	MPDU1; MPDU1; MI	O75352; J3QRD5	MPU1 HUM/	Acetyl (Protein N-t	553140	693410	524040	89111	83500	81152	0	0	0
AAEAGGAEEQYGFLTTPTK	MAP1B	P46821	MAP1B HUM	Unmodified	2472700	1060000	2221800	137720	139410	153310	0	0	0
AAECNIVVTQPR	DHX9	Q08211	DHX9 HUMA	Unmodified	4537400	4157800	4217500	181640	0	0	0	0	0
AAEDDEDDDVDTKK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Unmodified	81220000	80022000	91016000	512150	597100	553120	0	0	0
AAEDDEDDDVDTKK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Methyl (KR)	8751500	10263000	5842100	0	0	0	0	0	0
AAEDDEDDDVDTKKQK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Unmodified	26432000	25139000	20589000	22058	0	0	0	0	0
AAEDDEDDDVDTKKQK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Methyl (KR)	0	5835400	968540	0	0	0	0	0	0
AAEDDEDDDVDTKKQKTDEDD	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Unmodified	380250000	344430000	281670000	9306800	15070000	9237800	0	0	0
AAEDDEDDDVDTKKQKTDEDD	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	Methyl (KR)	87090000	86927000	45814000	1520700	932390	2883800	0	0	0
AAEDDEDDDVDTKKQKTDEDD	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	3 Methyl (KR)	3219200	3620700	4263800	0	0	0	0	0	0
AAEDDEDDDVDTKKQKTDEDD	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA HUM/	2 Methyl (KR)	4266400	3513100	1870100	0	0	0	0	0	0
AAEDEEVPAFFK	DPYSL2	A0A1C7CYX9	A0A1C7CYX	Unmodified	2052600	2157300	1984900	45794	35858	20620	0	0	0
AAEDELQLPRLPELFETGR	IGBP1	P78318	IGBP1 HUM/	Acetyl (Protein N-t	388540	54915	221960	0	0	0	0	0	0
AAEDRLASTGSGQSFLAR	HOOK3	Q86VS8	HOOK3 HUM	Unmodified	767660	497570	886670	65363	0	39658	0	0	0
AAEDYGVIK	TAGLN; TAGLN	Q01995; H0YCU9	TAGL HUMA	Unmodified	0	0	0	144620	134490	141870	0	0	0
AAEEAEEAR	PLEC	Q15149	PLEC HUMA	Unmodified	288730	303270	328940	53004	78525	66254	0	0	0
AAEEAEEARVQAER	PLEC	Q15149	PLEC HUMA	Unmodified	0	462500	0	116020	194960	149360	0	38738	0
AAEEEDEADPKR	PTMS	P20962	PTMS HUM/	Unmodified	78482000	76320000	91673000	1266600	1084100	1002400	0	0	0
AAEEEDEADPKR	PTMS	P20962	PTMS HUM/	Methyl (KR)	1823200	1928400	2144700	36755	20011	25771	0	0	0

AAEEEDEADPKRQK	PTMS	P20962	PTMS_HUMA	Unmodified	3038600	0	3277900	224650	147060	222240	0	0	0
AAEEEDEADPKRQKTENGASA	PTMS	P20962	PTMS_HUMA	Deamidation (N)	13500000	18108000	13306000	5802600	5458100	4736300	0	0	0
AAEEIGIK	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC_HUMA	Unmodified	4587100	5242000	2093800	13221	13672	111980	0	0	0
AAEEVEAK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Unmodified	2142100	2644400	1722900	276660	270830	0	0	0	0
AAEFGEPTSEQTGTAAGK	SVIL; SVIL	O95425; A0A6B7	SVIL_HUMA	Unmodified	1504000	1633600	2031700	0	0	0	0	0	0
AAEGIPKLLVLITGGK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	700530	715820	796520	0	0	0	0	0	0
AAEGIPKLLVLITGGK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Methyl (KR)	238950	291880	178950	0	0	0	0	0	0
AAEGWSAPILTLAR	RUFY1	Q96T51	RUFY1_HUM	Unmodified	1142900	790380	1727100	0	34968	0	15146	17103	18909
AAEISAMLK	POP1; POP1	Q99575; E5RK39	POP1_HUMA	Oxidation (M)	771400	1006500	910740	0	0	0	0	0	0
AAEIYGVTHTR	XAB2	Q9HCS7	SYF1_HUMA	Unmodified	1383300	1411400	1232800	0	63778	39700	0	0	0
AAEKEAALVQQEEEKAEQR	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	1083500	1624700	981530	0	0	0	0	0	0
AAEKLYLADPMK	SRP9; SRP9; SRP9; S	P49458; Q659G3;	SRP09_HUM	Oxidation (M)	1496100	2040200	1175200	35311	0	0	0	0	0
AAEKLYLADPMKAR	SRP9; SRP9; SRP9; S	P49458; Q659G3;	SRP09_HUM	Oxidation (M)	3725300	4751100	9801300	221460	238520	253500	23368	39282	0
AAEKQMKDKQDEEQR	CALR; CALR; CALR	P27797; K7EL50;	CALR_HUMA	Oxidation (M)	0	421020	346760	0	0	0	0	0	0
AAEKRPAEDYVPR	TCEAL3; TCEAL5	Q969E4; Q5H9L2	TCAL3_HUM	Unmodified	1930500	1764400	2006000	2019600	1651000	1564000	123930	152710	0
AAEKRPAEDYVPRK	TCEAL3; TCEAL5	Q969E4; Q5H9L2	TCAL3_HUM	Unmodified	730070	0	0	675220	0	438890	0	0	110710
AAELELEKKQEPNP	TGIF2LX	Q8IUE1	TF2LX_HUM	Unmodified	2807700	2762500	2678100	85514	93567	112940	0	0	0
AAELEMELNEHSLVIDTLK	PFDN2	Q9UHV9	PFD2_HUMA	Oxidation (M)	1066600	1298800	1468400	0	0	0	0	0	0
AAELEMELNEHSLVIDTLKEVDETRK	PFDN2	Q9UHV9	PFD2_HUMA	Oxidation (M)	515920	0	441930	0	0	0	0	0	0
AAELFGLTAEEVYLVHDELDKPLGR	PTRH1; PTRH1; PTR	Q86Y79; A0A096	PTH_HUMAN	Unmodified	476940	0	0	0	0	0	0	0	0
AAELIANSLATAGDGLIELR	PHB; PHB; PHB	P35232; C9JZ20;	PHB_HUMAN	Unmodified	3705100	1198300	2169200	0	0	0	0	0	0
AAELIANSLATAGDGLIELR	PHB; PHB; PHB	P35232; C9JZ20;	PHB_HUMAN	Deamidation (N)	1780600	767220	1337800	0	0	0	0	0	0
AAELMTR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUMA	Oxidation (M)	2175600	1345900	1100400	277950	156420	129110	0	0	0
AAELWGEQAEAR	GOLGA2; GOLGA2	Q08379; A0A6Q8	GOGA2_HUM	Unmodified	0	771530	0	0	0	0	0	0	0
AAEMMASLLK	KIF5B	P33176	KINH_HUMA	2 Oxidation (M)	1501200	1364500	1537700	0	0	0	0	0	0
AAEMVPDLPSPPMEAPAPASNPSGR	TOM1L2; TOM1L2;	Q6ZVM7; F5H3S6	TM1L2_HUM	2 Oxidation (M)	0	0	0	160490	0	38780	0	0	0
AAEPGKLEQVRPQELSR	GSE1; GSE1; GSE1	Q14687; H7C3B5;	GSE1_HUMA	Unmodified	928450	1123200	866640	0	0	0	0	0	0
AAEPNKTEIQTLFKR	ARFGAP2; ARFGAP	Q8N6H7; E9PK28	ARFG2_HUM	Acetyl (Protein N-t	1097300	1003100	1753100	222640	226830	173390	36233	37595	0
AAEPNKTEIQTLFKR	ARFGAP2; ARFGAP	Q8N6H7; E9PK28	ARFG2_HUM	Acetyl (Protein N-t	696380	743880	454180	51357	39643	0	29061	0	27617
AAEPQEQEFGK	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182_HUM	Unmodified	0	0	0	112790	114010	143900	0	0	0
AAEPQEQEFGKSAWIRDYSSGGSSR	TNKS1BP1	Q9C0C2	TB182_HUM	Unmodified	0	0	0	116180	79009	80451	94328	0	87485
AAERQEALREFVAVTGAEEDRAR	NSFL1C; NSFL1C; N	Q9UNZ2; G3V4V	NSF1C_HUM	Acetyl (Protein N-t	5859700	3370300	0	0	0	0	0	0	0
AAESALQVVEKLQAR	ELOA; ELOA	Q14241; A0A024	ELOA1_HUM	Acetyl (Protein N-t	940340	846960	800000	0	0	0	0	0	0
AAESLADPTEYENLFPGLK	COPB2; COPB2; COI	P35606; H0YAC7	COPB2_HUM	Unmodified	1305200	772260	1390500	0	0	0	0	0	0
AAESLTAIPEPASPQLLETPIHASQIQK	MDC1	Q14676	MDC1_HUM	Unmodified	10569000	9932800	9891000	0	0	0	0	0	0
AAESLTAIPEPASPQLLETPIHASQIQKVEPAGR	MDC1	Q14676	MDC1_HUM	Unmodified	5505100	4236500	4319900	0	0	0	0	0	0
AAESPDQKDTDGGPKEEESPV	SLC16A1	P53985	MOT1_HUM	Methyl (KR)	1772900	2607000	2698600	406870	331290	512090	0	0	0
AAESVSKPDVSEEAPGPSK	RTF2; RTF2; RTF2	Q9BY42; A2A2L5	RTF2_HUMA	Unmodified	700990	579030	597420	0	0	47107	0	0	0
AAETVLKQQGVLALRPYLQK	MARS1; MARS1	P56192; H0YHV5	SYMC_HUM	Unmodified	0	0	1492500	0	0	0	0	0	0
AAETYGVR	TAGLN3; TAGLN3;	Q9UI15; H7C5N2	TAGL3_HUM	Unmodified	7957000	9233700	9961500	0	0	0	0	0	0
AAEVLNKHSLSGRPLK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Deamidation (N)	1497300	1007100	1329000	0	0	0	0	0	0
AAEVLNKHSLSGRPLK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Unmodified	0	0	1651500	0	0	0	0	0	0
AAEVYTR	HDGFL2; HDGFL2; I	Q7Z4V5; K7ERA4	HDGR2_HUM	Unmodified	0	0	47851000	0	0	0	0	0	0
AAFAPFGR	TIA1; TIA1; TIA1; TI	P31483; C9JTN7;	TIA1_HUMA	Unmodified	6420400	6202900	7503800	86476	17376	13651	0	0	0
AAFDDAIAELDTLSEESYK	YWHAE; YWHAE	P62258; K7EM20	1433E_HUM	Unmodified	330060	107860	215640	0	0	0	0	0	0
AAFERESDVPLKTEEFEVTK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Unmodified	0	0	0	137810	137310	93018	0	0	0
AAFERESDVPLKTEEFEVTK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Methyl (KR)	0	1100700	1382000	139920	27604	87753	0	0	0
AAFFAER	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	2180700	1490600	1450900	25544	33572	32767	0	0	0
AAFGEEVDAVDTGISR	DFFA	O00273	DFFA_HUMA	Unmodified	1003900	1069800	0	51062	0	71665	0	0	0
AAFGISDSYVDGSSFDPQR	SRRM2; SRRM2; SR	Q9UQ35; I3L1I8;	SRRM2_HUM	Unmodified	523830	534540	421360	0	0	0	0	0	0
AAFGISDSYVDGSSFDPQRR	SRRM2; SRRM2; SR	Q9UQ35; I3L1I8;	SRRM2_HUM	Unmodified	11113000	8015200	9275900	475750	450260	231850	0	19387	79659
AAFGLSEAGFNTACVTK	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUMA	Unmodified	567920	0	749540	28035	17045	12096	0	0	0
AAFGQGSGPIMLDEVQCTGTEASLADCK	LGALS3BP; LGALS3	Q08380; K7ESM3	LG3BP_HUM	Oxidation (M)	1176000	1222100	1155500	0	0	0	0	0	0
AAFKELQSTFK	EFHD2	Q96C19	EFHD2_HUM	Unmodified	2529600	3751600	4658600	83854	128800	116190	0	0	0
AAFMKCGSEDTAPVIIFVSKMFAVDAKALPQNK	EFL1	Q7Z2Z2	EFL1_HUMA	4 Methyl (KR);Dea	0	2865800	2146200	0	0	0	0	0	0
AAFQSQYK	DDX42; DDX42	Q86XP3; A0A0A0	DDX42_HUM	Unmodified	1571900	1788300	1706400	0	0	61043	0	0	0
AAFQYGIK	IK	Q13123	RED_HUMAN	Unmodified	1485500	1559300	0	141410	165130	129210	0	0	0
AAFSKDESKEPIVEVR	NCAM1; NCAM1; N	P13591; A0A087	NCAM1_HUM	Unmodified	703790	567430	1283400	0	0	0	0	0	0
AAFTAFEEAQLPR	CCDC124	Q96CT7	CC124_HUM	Unmodified	8132700	7305000	7379500	341300	319150	204920	63583	61221	61490
AAFVAYALAFPR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB_HUMA	Unmodified	0	429200	900640	0	0	0	0	0	0
AAFVLPEFAR	SRM; SRM	P19623; K7EL89	SPEE_HUMA	Unmodified	54398000	41766000	54837000	1158400	1220300	1079700	101990	0	128920
AAFVLPEFARK	SRM; SRM	P19623; K7EL89	SPEE_HUMA	Unmodified	0	0	0	165370	99644	123400	0	0	0
AAFYHQPWAQEAVGR	SMARCD2; SMARCD	Q92925; J3KMX2	SMRD2_HUM	Unmodified	418070	365160	283860	0	0	0	0	0	0
AAGALLNGPPQFSTAPEIK	CNOT3; CNOT3; CN	O75175; H0Y5X7	CNOT3_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
AAGARPLTSPESLSR	BAG6; BAG6; BAG6	P46379; A0A024	BAG6_HUMA	Unmodified	2280700	1200900	1382600	0	0	0	0	0	0
AAGASDVVLYK	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	3310500	2603500	2751300	0	0	0	0	0	0
AAGDVDIGDAAYYFER	TACSTD2	P09758	TACD2_HUM	Unmodified	0	0	0	124100	61371	0	0	0	0
AAGEPGTSMPPEKK	RNF20; RNF20; RNF	Q5VTR2; C9JWJ4	BRE1A_HUM	Oxidation (M)	709580	915790	822990	0	100870	32460	0	0	0
AAGFNVLR	HSPA14	Q0VDF9	HSP7E_HUM	Unmodified	922910	540140	674040	0	0	0	0	0	0
AAGGDHGSPDSYR	ADSL; ADSL; ADSL;	P30566; B4DEP1;	PUR8_HUMA	Acetyl (Protein N-t	434580	600590	332730	0	0	0	0	0	0
AAGGDHGSPDSYRSPLASR	ADSL; ADSL; ADSL;	P30566; B4DEP1;	PUR8_HUMA	Acetyl (Protein N-t	2026100	171760	1574100	0	0	0	0	0	17134
AAGGLHLLPWSR	KIAA2013	Q8IYS2	K2013_HUM	Unmodified	495970	1105400	705200	0	0	0	0	0	0
AAGHPGDPESQQR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	439680	395500	570250	0	0	0	0	0	0
AAGIDEQENWHEGKENIR	LAP3	P28838	AMPL_HUM	Unmodified	1297000	1192600	838840	58493	0	51548	0	0	0
AAGIEIQK	CDC5L	Q99459	CDC5L_HUM	Unmodified	3957400	2706500	3360200	58642	0	0	0	18918	0
AAGKLKAEGSEIR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	0	0	0	1814500	1919000	2110900	0	0	0
AAGLAGSDLITALISPTTR	DONSON; DONSON;	Q9NYP3; H7C1C1	DONS_HUMA	Unmodified	251530	197640	214940	0	0	0	0	0	0
AAGNESFRNGQYAEASALYGR	TOMM34	Q15785	TOM34_HUM	2 Deamidation (N)	711370	954200	612770	0	0	28404	0	0	0
AAGPGLGNVAMGPR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A_HUMA	Oxidation (M)	6390200	4829500	4375000	188200	166910	174070	42096	24991	31141
AAGPISERNQDATVYVGGLDEK	SF3B4	Q15427	SF3B4_HUM	Acetyl (Protein N-t	1406300	0	0	0	0	0	0	0	0
AAGPISERNQDATVYVGGLDEK	SF3B4	Q15427	SF3B4_HUM	Acetyl (Protein N-t	0	0	1380500	40931	0	0	0	0	0
AAGQTVVAQPVHMQQLLK	EP400; EP400	Q96L91; A0A0A0	EP400_HUM	Oxidation (M)	961590	783290	0	0	0	0	0	0	0
AAGSGELGVTMK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Oxidation (M)	1191700	719700	596530	0	99465	170100	0	0	6394.9
AAGSGELGVTMKGPK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Oxidation (M)	1569500	1019700	1349500	758310	999690	0	0	0	0
AAGSPSPLPAPDPAPK	ASPSCR1; ASPSCR1	Q9BZE9; J3KRY8	ASPC1_HUM	Unmodified	965870	858190	515410	89863	96840	82546	0	0	0
AAGTLYTYPENWRAFK	EEF1G	P26641	EF1G_HUMA	Acetyl (Protein N-t	973960	553760	543080	0	0	0	0	0	0
AAGVEAAAEVAATEIKMEEESGAPGVPSGNGAPGPK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Acetyl (Protein N-t	8542600	4559200	8883500	0	0	0	0	0	0
AAGVNVEPFWPGLFAK	RPLP1	P05386	RLA1_HUMA	Unmodified	17339000	30619000	30663000	0	0	0	0	0	0
AAGVNVEPFWPGLFAK	RPLP1	P05386	RLA1_HUMA	Methyl (KR)	1233900	922930	827310	0	0	0	0	0	0
AAGVNVEPFWPGLFAK	RPLP1	P05386	RLA1_HUMA	Deamidation (N)	734630	575160	712680	0	0	0	0	0	0
AAGVVLEMIR	RUVBL2; RUVBL2;	Q9Y230; M0R0Y	RUVB2_HUM	Oxidation (M)	2315700	1921300	2029000	0	19953	0	0	0	0
AAGVVLEMIREGK	RUVBL2; RUVBL2;	Q9Y230; M0R0Y	RUVB2_HUM	Oxidation (M)	1483400	758140	469620	17619	0	0	0	0	0
AAGYDLYSAYDYTIPPMEK	DUT; DUT; DUT; DU	P33316; H0YNJ9;	DUT_HUMAN	Oxidation (M)	1725200	939580	1116500	0	0	0	0	0	0
AAHFGNPEAAHPAPLYSPTRPVSR	INSM1	Q01101	INSM1_HUM	Unmodified	2182400	1925300	1653400	0	0	0	0	0	0
AAHGGSAASSALK	UBXN7; UBXN7; UB	O94888; F8WB69	UBXN7_HUM	Acetyl (Protein N-t	3252200	4205100	4367500	0	40917	9707.4	0	0	0
AAHGVLLQALDEMRADAEAVLAPPEPAQ	IRGQ	Q8WZA9	IRGQ_HUMA	Oxidation (M)	2593700	4489600	2711800	0	0	0	0	0	0
AAHIFFTDTCPEPLFSELGR	STXBP2; STXBP2; S	Q15833; M0QZ54	STXB2_HUM	Unmodified	278480	345350	193570	0	0	0	0	0	0
AAIAQLNGKEVK	RBM14	Q96PK6	RBM14_HUM	Deamidation (N)	6204300	6523500	6347600	159850	277010	214320	0	6990.8	0
AAIDWFDGK	TAF15; FUS; TAF15;	O92804; P35637;	RBP56_HUM	Unmodified	1859700	3008600	2336400	60297	17174	18015	0	0	0
AAIDWFDGKEFHGNIIK	TAF15; TAF15	O92804; A0A075	RBP56_HUM	Unmodified	11115000	11966000	10054000	0	0	0	0	0	0
AAIDWFDGKEFSGNPIK	FUS; FUS	P35637; H3BPE7	FUS_HUMAN	Unmodified	48663000	36720000	41116000	12285	0	0	0	0	0
AAIDWFDGKEFSGNPIK	FUS; FUS	P35637; H3BPE7	FUS_HUMAN	Methyl (KR)	375650	179130	1693800	0	0	0	0	0	0
AAIDWFDGKEFSGNPIKVSFATR	FUS; FUS	P35637; H3BPE7	FUS_HUMAN	Unmodified	4124200	1506900	0	0	0	0	0	0	0
AAIISAEGDSK	PHB; PHB; PHB	P35232; C9JZ20;	PHB_HUMAN	Unmodified	4332800	4340300	4877100	174980	202450	163580	0	0	0
AAILETAPK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1_HUM	Unmodified	3677500	3324100	3351000	266990	287080	160170	0	0	0
AAILETAPKEVPMVVVPPVGAK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1_HUM	Oxidation (M)	1470000	995040	0	41455	0	0	0	0	0
AAILQTEVDALR	ERC2; ERC1; ERC2;	O15083; Q8IUD2;	ERC2_HUMA	Unmodified	0	1362100	0	0	0	0	0	0	0
AAIPSSGSLVATHDYYR	PPDPF; PPDPF	Q9H3Y8; X6R7I6	PPDPF_HUM	Acetyl (Protein N-t	1202200	715980	789270	71157	51330	36371	23315	0	0
AAISSGIEDPVPTLHLTER	CNOT3; CNOT3; CN	O75175; H0Y5X7	CNOT3_HUM	Unmodified	2896700	2676800	3318300	0	0	0	0	0	0
AAIVEKLSSLPFQK	NUTF2; NUTF2	P61970; H3BRV9	NTF2_HUMA	Unmodified	1363200	1662100	1621600	18397	0	0	0	0	0
AAKEYPFILDAFQR	MTREX	P42285	MTREX_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AAKLEILQQQLQVANEAR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	497460	316380	869140	0	0	0	0	0	0
AAKLEILQQQLQVANEAR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Methyl (KR)	875920	0	641880	0	0	0	0	0	0
AAKLSEGSQPAEEEEDQETPSRNLR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	Unmodified	0	0	0	344180	409100	0	72394	0	0
AAKPGPAEAPSPTASPSGDASPPATAPYDPR	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4_HUM	Unmodified	728370	0	1677300	0	0	0	0	0	0
AAKVLEQLTGQTPVFSK	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	Unmodified	1015200	824710	733180	0	0	0	0	0	0
AALADVLR	EML4; EML4	Q9HC35; B3MBZ	EMAL4_HUM	Unmodified	1931400	1191200	1098400	0	0	0	0	0	0
AALAHPFQDVTKPVPHLRL	CDK2; CDK2; CDK2	P24941; G3V5T9;	CDK2_HUMA	Unmodified	1522800	867640	1900600	0	0	0	0	0	0
AALAHSEEVTASQVAATK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2867000	3028700	1812200	400450	340280	480550	57518	47014	31154
AALAPLPPLPAQFK	VTA1; VTA1	Q9NP79; A0A087	VTA1_HUMA	Acetyl (Protein N-t	398570	310830	290690	0	0	0	0	0	0
AALDKATVLLSMSK	PDCD4	Q53EL6	PDCD4_HUM	Oxidation (M)	2728600	3343400	2411300	211710	237520	217820	12084	0	0
AALEALLPYTER	TBL3; TBL3	Q12788; J3KNP2	TBL3_HUMA	Unmodified	858960	816710	764380	0	0	0	0	0	0
AALEEFSR	SMARCC1	Q92922	SMRC1_HUM	Unmodified	3753700	4234800	4416200	0	0	0	0	0	0
AALEEVER	PLEC	Q15149	PLEC_HUMA	Unmodified	1310800	1376300	1258700	65904	0	64161	0	0	0
AALEEVYPDLTPEETR	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	991870	859130	838920	19150	27923	0	0	0	0
AALEEVYPDLTPEETRR	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	5944000	3665100	5658400	138350	127530	186700	0	0	0
AALEGTATYR	HEBP1; HEBP1	Q9NRV9; A0A3B	HEBP1_HUM	Unmodified	2788800	2917100	3772600	147900	68219	211190	0	0	0
AALEYLEDIDLKTLEKEPR	PRXL2A	Q9BRX8	PXL2A_HUM	Unmodified	3721100	1698700	2012200	0	0	0	0	0	0
AALGPLVTGLYDVQAFK	UMPS; UMPS; UMPS	P11172; F2Z3P2;	UMPS_HUM	Unmodified	1254600	1427700	1428000	0	0	0	0	0	0
AALGPSSQNVTEYVVRVPK	GTF2F1; GTF2F1	P35269; M0R0Z3	T2FA_HUMA	Acetyl (Protein N-t	3949400	3952200	3449800	56304	65269	32831	397020	169290	196450
AALLDQALSNAR	MACF1; MACF1; M	H3BQK9; H3BPE	H3BQK9_HU	Unmodified	730840	409050	693210	0	0	0	0	0	0
AALLELWELR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	530120	247210	566120	0	0	0	0	0	0

AALLELWELRR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	4098600	5338300	4245600	0	0	0	0	0	0
AALLVPPR	PKP2	Q99959	PKP2_HUMA	Unmodified	556410	0	0	84035	84223	126220	0	0	0
AALMESQGQQQEER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M)	4160200	4146500	5848700	315580	320440	344360	0	0	0
AALMESQGQQQEERGQQER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M)	7347200	9050600	9004400	0	0	0	0	0	0
AALMESQGQQQEERGQQEREVAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M)	1453200	0	0	0	0	0	0	0	0
AALPLTTSDTK	HUWE1	Q7Z6Z7	HUWE1_HUM	Unmodified	1153500	832960	864640	0	0	0	0	0	0
AALQEEEQASK	KIF2A; KIF2A; KIF2/	O00139; A0A6Q8	KIF2A_HUM/	Unmodified	1500900	1257400	1280800	0	0	0	0	0	0
AALQEEEQASKQNPK	KIF2A; KIF2A; KIF2/	O00139; A0A6Q8	KIF2A_HUM/	Unmodified	2182600	3070500	2511100	0	0	0	0	0	0
AALQSQAEALRR	IRGQ	Q8WZA9	IRGQ_HUMA	Unmodified	1807700	0	2039000	0	0	0	0	0	0
AALRDYETVVK	PPP5C; PPP5C; PPP5	P53041; A8MU39	PPP5_HUMA	Unmodified	4709000	3296900	3386200	63367	86739	46519	0	0	0
AALRQPQVAELLAEAR	GALK1; GALK1	P51570; K7ERJ9	GALK1_HUM	Acetyl (Protein N-t	1102900	1103800	1218800	0	0	0	0	0	0
AALSALESFLK	PRKDC	P78527	PRKDC_HUM	Unmodified	798300	569600	511000	0	0	14176	18079	0	18652
AALSASEGEEVPQDK	AIFM1; AIFM1; AIFM	O95831; A0A6Q8	AIFM1_HUM	Unmodified	748250	486080	458410	0	0	0	0	0	0
AALSEEELEK	EIF4G1; EIF4G1; EIF	O04637; E7EX73;	IF4G1_HUMA	Unmodified	689120	862770	659050	0	0	93427	19111	0	0
AALSEEELEKK	EIF4G1; EIF4G1; EIF	O04637; E7EX73;	IF4G1_HUMA	Unmodified	3225100	1945200	2535200	59320	74321	89147	0	0	0
AALSGANVLTLIEKDIR	LRP1; LRP1	Q07954; H0YJI8	LRP1_HUMA	Unmodified	548570	272100	408590	0	0	0	0	0	0
AALTAEHFAALQSLLK	COMMD9; COMMD	Q9P000; E9PJ95	COMD9_HUM	Acetyl (Protein N-t	832710	488150	1020400	0	0	0	0	0	0
AALTGLLHR	HADHB; HADHB; H; S	P55084; C9JEY0;	ECHB_HUMA	Unmodified	4728500	6979500	4079300	29356	0	0	0	0	0
AALTRDPQFQK	GPI; GPI; GPI; GPI; C	P06744; K7EIL4;	G6PI_HUMA	Acetyl (Protein N-t	21510000	22395000	21634000	985500	755830	965810	117800	76775	73502
AALTTLFK	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2_HUM	Acetyl (Protein N-t	378880	501670	393820	0	0	0	0	0	0
AALVDLEPGTMDSVR	TUBB6; TUBB6; TU	Q9BUF5; K7ESQ3	TBB6_HUMA	Oxidation (M)	5080800	7792200	5676600	650750	667780	612970	74249	95819	89821
AAMDNSEIAGEKK	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Oxidation (M);Deai	3439900	260940	1648100	0	274830	0	0	0	0
AAMEALVVEVTK	DHX9	Q08211	DHX9_HUMA	Oxidation (M)	1286400	1809600	1746200	0	29360	0	0	0	0
AAMEPIVISAK	TLN1	Q9Y490	TLN1_HUMA	Oxidation (M)	15745000	13973000	12812000	719900	826570	773210	93492	111220	111480
AAMFPETLDEGMQIPSTQFDAAHPTNVQR	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1_HUM	2 Oxidation (M)	5271100	2345500	3561300	628860	225960	106910	197730	55508	71107
AAMGPGISR	PGM2; PGM2; PGM;	Q96G03; E9PD70	PGM2_HUM/	Oxidation (M)	698510	0	0	602660	0	602710	0	0	31965
AAMIVNQLSKK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK_HUMA	Oxidation (M)	799820	1555400	834120	0	0	0	0	0	0
AAMKGLGTDEDTLIEILASR	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1_HUM	Oxidation (M)	757280	0	674810	0	0	0	0	0	0
AAMPPQIIQFPEDQKVR	MYLK; MYLK	Q15746; D6R9C2	MYLK_HUMA	Oxidation (M)	0	0	0	40637	0	27396	253540	215800	0
AAMRETWLSENQR	SPTBN2; SPTBN1; S	O15020; Q01082;	SPTN2_HUM	Oxidation (M)	922520	1156800	1363600	61604	54932	75929	0	0	0
AAMTSLMDLTLLLAR	TBCD; TBCD; TBCD	Q9BTW9; A0A0J8	TBCD_HUM/	2 Oxidation (M)	352390	290110	264050	0	0	0	0	0	0
AAMVGMLANFLGFR	AGT; AGT; AGT; AC	P01019; A0A7P01	ANGT_HUM/	2 Oxidation (M)	103010	73470	123770	0	0	0	0	0	0
AANAITKNNDLVR	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	3 Deamidation (N)	1006500	375760	0	0	0	0	0	0	0
AANAITKNNDLVR	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	Deamidation (N)	0	0	165890	130970	168940	161300	0	0	0
AANAITKNNDLVR	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	2 Deamidation (N)	0	0	0	48137	43678	36345	0	0	0
AANGVVLATEK	PSMA2; N/A; PSMA2	P25787; A0A7I2V	PSA2_HUMA	Deamidation (N)	2696900	2399900	2132700	0	49097	28779	47527	0	74433
AANGVVLATEKK	PSMA2; N/A; PSMA2	P25787; A0A7I2V	PSA2_HUMA	Deamidation (N)	1005800	1294900	0	0	60060	0	0	0	0
AANLSRNGPALQEAYVR	DBNL; DBNL; DBNL	Q9UJU6; F8WFE1	DBNL_HUM/	Acetyl (Protein N-t	2875300	2546400	0	668070	698640	591580	162920	261900	283770
AANLSRNGPALQEAYVR	DBNL; DBNL; DBNL	Q9UJU6; F8WFE1	DBNL_HUM/	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
AANMLQQSGSK	RECQL	P46063	RECQ1_HUM	Oxidation (M)	4131900	3355100	2121600	0	0	0	25401	0	0
AANMLQQSGSKNTGAK	RECQL	P46063	RECQ1_HUM	Oxidation (M);Deai	757280	560190	965340	19073	29890	38813	0	0	0
AANNGALPPDLSYIVR	CYC1	P08574	CY1_HUMAN	2 Deamidation (N)	15521000	15545000	14798000	242230	145960	98012	34614	37850	11918
AANNGALPPDLSYIVR	CYC1	P08574	CY1_HUMAN	Deamidation (N)	1514500	4029500	2866300	161130	86934	53734	0	16201	0
AANPVDFLSK	FTSJ3	Q8IY81	SPB1_HUMA	Unmodified	0	0	0	0	0	189450	0	0	0
AANVGSMFQYWK	CUX1; CUX2; CUX1	Q13948; O14529;	CASP_HUMA	Acetyl (Protein N-t	0	62464	0	197640	0	0	0	0	0
AANVLLSEHGEVK	STK24; STK24; STK;	Q9Y6E0; H0Y630	STK24_HUM	Unmodified	1398000	2038800	1205900	55767	44498	77437	0	0	0
AANVLLSEQGDVK	STK25; STK26; STK;	O00506; Q9P289;	STK25_HUM	Unmodified	997770	1123200	1102300	0	46203	0	0	0	0
AAPAERQIDLQR	PDS5A	Q29RF7	PDS5A_HUM	Unmodified	181630	0	0	99152	130020	110150	21728	0	26231
AAPASSAGASDAR	LPCAT1	Q8NF37	PCAT1_HUM	Unmodified	953680	789180	0	102990	104410	93101	0	0	0
AAPCIYWLPLTDSQIVQK	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU_HUM	Unmodified	730620	648590	980870	0	0	0	0	0	0
AAPEASGTPSSDAVSR	CORO1A	P31146	COR1A_HUM	Unmodified	937720	1080400	1447800	0	0	0	0	0	0
AAPEASGTPSSDAVSRLEEEMR	CORO1A	P31146	COR1A_HUM	Oxidation (M)	3038000	5923300	3425900	0	0	0	0	0	0
AAPEASSPPASPLQHLLPGK	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	11137000	8355600	9665500	625140	598950	616890	132060	0	0
AAPEEPQQRPPEAVAAAPAGTTSSR	ZFP91; ZFP91-CNTF	Q96JP5; A0A0A6	ZFP91_HUM	Unmodified	3442600	4577700	3516700	45407	0	237020	0	0	0
AAPFSLEYR	PPA1; PPA1	Q15181; Q5SQT6	IPYR_HUMA	Unmodified	40245000	34807000	33188000	433380	312300	406050	22659	65027	0
AAPGAEFAPNK	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Deamidation (N)	872750	1190300	677550	0	0	0	0	0	0
AAPGAEFAPNK	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Unmodified	4465800	3843700	6717700	0	189720	0	0	0	0
AAPGAEFAPNKR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Deamidation (N)	14559000	15594000	16537000	1173500	639320	1108000	93298	97703	64569
AAPGAEFAPNKR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Unmodified	8491000	11507000	11305000	1031000	1033300	973280	146750	139730	181020
AAPGAEFAPNKRR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Deamidation (N)	2737200	3260100	2832400	233030	216030	204850	0	0	61745
AAPLAGFGYGLPISR	PDK3	Q15120	PDK3_HUMA	Unmodified	1953200	0	1629400	13460	0	14307	0	0	0
AAPLQGMLPGLLAPLR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Oxidation (M)	5717900	4493600	5336600	0	0	19055	0	0	0
AAPPARADADPSPTSPPTAR	UCKL1	Q9NWZ5	UCKL1_HUM	Acetyl (Protein N-t	1135900	0	0	115830	90603	92124	0	0	0
AAPPEPGEPEERKSLK	COX20	Q5RI15	COX20_HUM	Acetyl (Protein N-t	0	0	0	353160	272140	400560	0	0	0
AAPPPPPPPPLESSPR	UBR4	Q5T4S7	UBR4_HUMA	Unmodified	555550	567330	828140	277470	285200	382530	0	84573	0
AAPQSPSVPK	NUP155; NUP155	O75694; E9PF10	NU155_HUM	Unmodified	913610	855100	925520	70491	46354	115150	0	0	0
AAPREEPLTPR	INPPL1; INPPL1	O15357; A0A0A0	SHIP2_HUM	Unmodified	2878500	2566600	2534400	201000	195540	219930	0	0	0
AAPSDGFKPR	EMG1; EMG1	Q92979; A0A087	NEP1_HUMA	Acetyl (Protein N-t	1164300	1553600	981390	441840	485310	557810	57529	72188	65568
AAPSDGFKPRER	EMG1; EMG1	Q92979; A0A087	NEP1_HUMA	Acetyl (Protein N-t	0	0	0	104170	0	94558	114150	0	110340
AAPSPQEALVR	CHMP4C	Q96CF2	CHM4C_HUM	Unmodified	1279900	2351100	3302700	226250	41059	75528	0	0	0
AAPVDLELKK	PFDN1; PFDN1; PFD	O60925; D6RGG5	PFD1_HUMA	Acetyl (Protein N-t	4076900	3901000	3559800	53166	49502	58655	0	0	0
AAPVDLELKKAFTELQAK	PFDN1; PFDN1	O60925; E5RGS4	PFD1_HUMA	Acetyl (Protein N-t	617220	697480	685710	0	0	0	0	0	0
AAPVDLELKKAFTELQAK	PFDN1; PFDN1	O60925; E5RGS4	PFD1_HUMA	Acetyl (Protein N-t	0	2610600	2925000	0	0	0	0	0	0
AAQAGPTQPGPPR	PHF23; PHF23; PHF2	Q9BUL5; I3L0Y2;	PHF23_HUM	Unmodified	584590	596050	537070	0	0	0	0	0	0
AAQALALLR	PSMD5; PSMD5	Q16401; F2Z3J2	PSMD5_HUM	Acetyl (Protein N-t	289790	225010	288890	0	0	0	0	0	0
AAQAPSSFQLLYDLK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	0	2572300	0	0	0	0	0	8552.2	0
AAQAPSSFQLLYDLKLPVEDK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	734210	552110	657870	0	0	0	0	0	0
AAQAPSSFQLLYDLKLPVEDKIR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	12204000	5973300	9571500	0	0	0	0	0	0
AAQASDLEK	TALDO1	P37837	TALDO_HUM	Unmodified	6011800	5233600	664590	0	422630	0	0	0	0
AAQASDLEKIHLDEK	TALDO1	P37837	TALDO_HUM	Unmodified	8777100	7122800	7741800	325700	249890	403780	0	0	0
AAQASDLEKIHLDEKSFR	TALDO1	P37837	TALDO_HUM	Unmodified	2106200	2037500	2086300	101700	102750	70062	0	0	0
AAQDLCEEALR	PRPF6	O94906	PRP6_HUMA	Unmodified	925330	0	732100	0	35846	0	0	0	0
AAQDRDQIYR	TRA2B; TRA2B	P62995; H7C2L4	TRA2B_HUM	Unmodified	37259000	47936000	55287000	5404900	9287300	9079100	296800	323740	430250
AAQELQEGQR	CBS; CBSL; CBS	P35520; P0DN79;	CBS_HUMAN	Unmodified	1776100	2223300	1385100	0	0	28644	0	0	0
AAQLAREIESSPQYR	ATXN2L; ATXN2L;	Q8WWM7; H3BS	ATX2L_HUM	Unmodified	0	0	0	88904	140000	134720	0	0	19031
AAQLDGLEAR	LAMB2	P55268	LAMB2_HUM	Unmodified	1117900	456400	360140	190340	147280	125660	0	0	0
AAQLVDKDSTFLSTLEHHLSR	NCLN; NCLN; NCLN	Q969V3; A0A0C4	NCLN_HUM/	Unmodified	2662700	1683700	1150900	0	0	0	0	0	0
AAQQQEEQEEKEEEDDEQTLHR	IGBP1	P78318	IGBP1_HUM	Unmodified	2091800	2074700	2301700	139330	126190	0	0	0	0
AAQRHETLTSLNLEK	FAM162A; FAM162/	Q96A26; F8W7Q4	F162A_HUM	Unmodified	497910	330910	456860	0	0	0	0	0	0
AAQSANISVR	HMGCL	P35914	HMGCL_HUM	Unmodified	2422800	712420	2012500	29614	166860	128470	11514	21235	0
AAQSAPKVVLK	CHTOP; CHTOP	Q9Y3Y2; A0A087	CHTOP_HUM	Acetyl (Protein N-t	0	0	0	135930	117010	185200	73144	0	0
AAQSLLNK	DDX19B; DDX19A; I	Q9UMR2; Q9NUI	DD19B_HUM	Unmodified	788610	893220	808080	30742	0	0	0	0	0
AAQSTAMNR	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Oxidation (M)	33475	93546	82796	0	0	0	0	0	0
AAQVAPAAASSLGNPPPPPSELKK	ARID1A	O14497	AR11A_HUM/	Acetyl (Protein N-t	1460900	1555300	1539400	0	68441	70133	0	0	0
AAQVAQDEEIAR	CCDC50	Q8IVM0	CCD50_HUM	Unmodified	757940	719080	956700	117730	107550	166810	0	0	0
AAQVMGPPDR	FUBP3	Q96I24	FUBP3_HUM	Oxidation (M)	0	1003500	725660	88536	136880	0	0	6646.7	0
AARPKLHYPNGRGR	GSTA4	O15217	GSTA4_HUM	Acetyl (Protein N-t	0	0	0	0	175400	0	0	0	0
AASAAAASAAAASAASGSPGPGEGSAGGEKR	TRIM28	Q13263	TIF1B_HUMA	Acetyl (Protein N-t	20461000	18617000	17609000	2213300	1934700	1785400	0	342770	332230
AASAAFQENVGR	TBCD; TBCD; TBCD	Q9BTW9; I3L0V3	TBCD_HUM/	Unmodified	1421200	1480300	1497800	158510	111640	100550	0	0	0
AASAAGAAGSAGGSSGAAGAAGGGAGAGTRPGDGGTASAGAAGPGAA	CDV3	Q9UKY7	CDV3_HUMA	Unmodified	776680	592730	0	66929	0	0	0	0	0
AASAAQRELVAQGK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1396200	1229000	1510800	0	36837	26639	18281	18329	16111
AASADSTTEGTPADGFTVLSTK	MACROH2A1	O75367	H2AY_HUMA	Unmodified	11802000	8575000	9123600	671870	666670	562400	0	0	0
AASAFFTYVSLSQEGR	ACOT7	O00154	BACH_HUM/	Unmodified	4309500	3592500	3587000	0	0	14086	0	0	0
AASAGQEPLHNEELAGAGR	DDRGK1; DDRGK1	Q96HY6; A0A0A(	DDRGK_HUM	Unmodified	357530	276120	282660	26054	35708	29156	0	0	0
AASAYAVGDVK	PRKAR2A; PRKAR2	P13861; H7C330	KAP2_HUMA	Unmodified	1197800	798940	888050	0	586020	716080	0	0	0
AASCVLLHTGQK	AKR1A1; AKR1A1;	P14550; V9GYG2	AK1A1_HUM	Acetyl (Protein N-t	1197800	1164300	1059700	171290	135730	217080	0	0	0
AASDIAMTELPPTHPIR	YWHAE; YWHAE	P62258; K7EM20	1433E_HUMA	Oxidation (M)	45967000	41492000	40730000	406240	388950	302110	0	0	48420
AASDIWKPVLSIDTEPR	CHAMP1	Q96JM3	CHAP1_HUM	Unmodified	1499700	4342900	1156000	0	0	0	0	0	0
AASEFESSEGVFLFPELR	CLSTN1; CLSTN1	O94985; Q5SR54	CSTN1_HUM	Unmodified	709490	294150	494420	0	0	0	0	0	0
AASGESGTSGGGGSTEEAFMTFYSEVKQIEKR	DNAJC8	O75937	DNJC8_HUM	Acetyl (Protein N-t	0	1515000	1600500	0	0	0	0	0	0
AASGFNAMEDAQTLR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4_HUM	Oxidation (M)	1526300	2354900	2597100	239920	212160	518600	0	52387	0
AASGFNAMEDAQTLR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4_HUM	Oxidation (M);Deai	0	1214500	1024800	0	0	0	0	0	0
AASGFNAMEDAQTLRK	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4_HUM	Oxidation (M)	1143800	0	1333400	128090	105040	97311	28727	53174	40302
AASIFGGAKPVDTAAR	EIF4B; EIF4B; EIF4B	P23588; E7EX17;	IF4B_HUMAN	Unmodified	10531000	12089000	13157000	919990	965000	1009500	107440	0	113860
AASITSEVFNK	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	893430	1035100	0	0	0	0	0	0	0
AASITSEVFNKFFK	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	3266700	1426300	1819000	0	0	0	0	0	0
AASITSEVFNKFFK	SUPT16H	Q9Y5B9	SP16H_HUM	Deamidation (N)	0	0	270030	0	0	0	0	0	0
AASITSEVFNKFFKER	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	759350	1002400	915410	0	0	0	0	0	0
AASLEYDYETIR	MBOAT7	Q96N66	MBOA7_HUM	Unmodified	1710400	1302900	1319200	111360	68946	99576	0	0	0
AASLGSSQSSR	CAST; CAST; CAST;	A0A6Q8PG40; H(	A0A6Q8PG40	Unmodified	398560	318360	695810	0	0	625030	0	0	0
AASLNYLNQPSAAPLQVSR	KLC4	Q9NSK0	KLC4_HUMA	Unmodified	552860	0	0	50406	0	47333	0	0	0
AASQGYTVAR	SEL1L	Q9UBV2	SEL1L_HUM	Unmodified	1071400	1281500	1472200	108550	270170	281930	0	0	0
AASQPGELKDWFVGR	CPE; CPE; CPE; CPE	P16870; C9JE88;	CBPE_HUMA	Unmodified	3794300	2924100	2552700	77322	0	68575	0	0	26260
AASQPTSLAPEK	MBOAT7	Q96N66	MBOA7_HUM	Unmodified	2241700	1860200	1958000	152390	138760	153560	0	0	0
AASQPTSLAPEKLREE	MBOAT7	Q96N66	MBOA7_HUM	Unmodified	6060100	5758000	5986600	1302000	1256200	1657600	209620	0	239800
AASTIKEVAQAVLL	SPTLC1	O15269	SPTC1_HUM	Unmodified	754990	685830	700030	0	0	0	0	0	0
AASVVQPQPLVVVKEEK	BRD4	O60885	BRD4_HUMA	Unmodified	2544200	0	3336300	115200	0	91205	0	0	0
AATAAADFTAK	STRAP	Q9Y3F4	STRAP_HUM	Unmodified	6015600	5801500	5513600	79686	135500	139250	0	0	0
AATALKDVVK	PDIA6	Q15084	PDIA6_HUM	Unmodified	7283200	8652700	7557700	298370	278770	273150	0	0	0
AATASAGAGGIDGKPR	SLC25A11; SLC25A1	O02978; I3L1P8	M2OM_HUMA	Acetyl (Protein N-t	2864700	2023900	3197200	771430	688690	193750	128440	0	57427
AATDLERFSNAEPEPR	SEPTIN8; SEPTIN8;	Q92599; A6NFQ9	SEPT8_HUMA	Acetyl (Protein N-t	1002800	838000	1316500	529800	479830	448480	0	0	45431
AATDLERFSNAEPEPR	SEPTIN8; SEPTIN8;	Q92599; A6NFQ9	SEPT8_HUMA	Acetyl (Protein N-t	516870	0	0	310630	403290	372990	99931	84010	0

AATENIPVVR	CDC73; CDC73; CDC	Q6P1J9; A0A2R8Y	CDC73	HUM	Unmodified	0	5954400	5837200	0	0	0	0	0	0
AATFFGEVVK	PSMG1; PSMG1	O95456; F8WBH7	PSMG1	HUM	Acetyl (Protein N-t	225180	227860	0	0	0	0	0	0	0
AATGEEVSAEDLGGADLHCR	MCCC2; MCCC2; M	Q9HCC0; D6RD6	MCCB	HUM	Unmodified	0	0	0	0	0	233900	0	0	0
AATIIEER	AKAP12	Q02952	AKA12	HUM	Unmodified	0	199580	231210	559950	490760	507900	28164	31819	0
AATITPFR	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM	Unmodified	12748000	11268000	0	467480	585320	0	0	27418	0
AATLAQELEK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	4412000	3262500	5273900	0	0	0	0	0	0
AATLEGWK	NUP107	P57740	NU107	HUM	Unmodified	0	0	0	0	0	0	0	0	0
AATLILEPAGR	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2	HUM	Unmodified	801510	936790	915430	0	0	0	63054	65242	63037
AATLMMLGR	DNAJC7; DNAJC7; D	Q99615; A0A6B7	DNJC7	HUM	2 Oxidation (M)	1867800	1870800	2179500	57189	39426	0	0	0	0
AATQFWR	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
AATSEGVQVK	MECP2	P51608	MECP2	HUM	Unmodified	209140	238370	290500	423180	466660	0	0	0	0
AATSGVPSIYAPSTYAHLSPAK	LSR; LSR	Q86X29; S4R3V8	LSR	HUMAN	Unmodified	1852400	2567600	2335900	0	0	0	0	0	0
AATSPALFNR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	8395600	8050600	8626900	948070	522680	1014500	0	43183	0
AATSRYTLNFEAAQK	VCAN; VCAN; VCAI	P13611; Q86W61;	CSPG2	HUM	Unmodified	876440	516650	0	0	0	0	0	46162	0
AATSRYTLNFEAAQK	VCAN; VCAN; VCAI	P13611; Q86W61;	CSPG2	HUM	Deamidation (N)	0	0	958830	0	0	0	0	0	0
AATTGSGVKVPR	UBE2V1	Q13404	UB2V1	HUM	Acetyl (Protein N-t	7231000	8700400	7088200	2355500	2468200	2833500	680430	632190	665790
AATVGSLAGQPLQER	APOE; APOE	P02649; H0Y7L5	APOE	HUMA	Unmodified	742140	711270	653150	0	0	0	0	0	0
AATVGYGILR	ASRGL1; ASRGL1; A	Q7L266; E9PJK6;	ASGL1	HUM	Unmodified	21012000	19674000	21783000	620330	561640	602490	0	0	29647
AAVAATAAAK	HACD2	Q6Y1H2	HACD2	HUM	Unmodified	2103000	0	2626300	0	0	0	0	0	0
AAVAGEDGR	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3	HUM	Unmodified	20224000	51489000	10464000	2977200	2351000	3324600	0	0	0
AAVAGEDGRMIAGQVLDINLAAEPK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Oxidation (M)	14097000	14795000	21963000	0	0	0	0	0	0
AAVAGEDGRMIAGQVLDINLAAEPK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Oxidation (M);Deai	0	1591300	1363700	0	0	0	0	0	0
AAVAGENAR	RALYL; RALYL; RA	Q86SE5; E5RG71	RALYL	HUM	Unmodified	817520	965690	1015200	189560	148310	151920	0	0	0
AAVAIQSQFR	PCP4	P48539	PCP4	HUMA	Unmodified	45802000	47201000	43479000	103070	159690	97590	91543	76783	0
AAVAIQSQFRK	PCP4	P48539	PCP4	HUMA	Unmodified	4042500	3640900	1765100	0	0	0	0	0	0
AAVATFLQSVQVPEFTPK	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUMA	Unmodified	38626000	43621000	39031000	0	0	0	21516	0	13817
AAVATFLQSVQVPEFTPK	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUMA	Methyl (KR)	673680	401060	330960	0	0	0	0	0	0
AAVAVVPLVSEDK	ZC3H11A	O75152	ZC11A	HUM	Unmodified	481590	668000	549760	27874	25662	0	0	0	0
AAVDAGFVPNDMQVGQTGK	ETFA; ETFA; ETFA;	P13804; H0YLU7;	ETFA	HUMA	Oxidation (M)	1352400	2257500	1311100	0	69157	68094	0	0	0
AAVDAGFVPNDMQVGQTGK	ETFA; ETFA; ETFA;	P13804; H0YLU7;	ETFA	HUMA	Oxidation (M);Deai	3990800	0	3431100	95581	151570	85470	0	0	0
AAVDLEKLR	PFKL; PFKL	P17858; F8WEU2	PFKAL	HUM	Acetyl (Protein N-t	14943000	12537000	14450000	751950	810350	772010	121280	100070	0
AAVDLEKLR	PFKL; PFKL	P17858; F8WEU2	PFKAL	HUM	Acetyl (Protein N-t	1877500	1030400	984180	59169	60402	44706	11464	0	0
AAVDLEKLRASGAGK	PFKL; PFKL	P17858; F8WEU2	PFKAL	HUM	Acetyl (Protein N-t	0	0	0	346370	321960	311150	113370	86887	94703
AAVEALQSQALHATSQQPLRK	SEPTIN8; SEPTIN8;	Q92599; A6NFQ9	SEPT8	HUM	Unmodified	1441800	497270	1479100	0	0	0	0	0	0
AAVEDPRVLLLDL	DLST	P36957	ODO2	HUMA	Unmodified	1021000	229880	833840	0	0	0	0	0	0
AAVEDSGTTVETIK	RNF20; RNF20; RNF	Q5VTR2; C9JWJ4	BRE1A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
AAVEEGIVLGGGCALLR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	9763300	4994600	1665200	97459	93033	82000	100210	99102	102890
AAVEELLER	TBCC	Q15814	TBCC	HUMA	Unmodified	2615700	877650	1074800	0	0	0	0	0	0
AAVELEEPEDARIMLSR	PRPF6	O94906	PRP6	HUMA	Oxidation (M)	1785500	1616400	1874700	47353	47768	31371	0	0	0
AAVENLPTFLVELSR	KPNB1; KPNB1	Q14974; J3QR48	IMB1	HUMA	Unmodified	14959000	6803200	15204000	0	0	0	0	0	0
AAVENLPTFLVELSR	KPNB1; KPNB1	Q14974; J3QR48	IMB1	HUMA	Deamidation (N)	52977	0	48422	0	0	0	0	0	0
AAVESLGFILFR	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1	HUM	Unmodified	648080	302220	536960	0	0	0	0	0	0
AAVEWFDGKDFQGSK	EWSR1; EWSR1; EW	Q01844; H7BY36	EWS	HUMA	Unmodified	4105100	3729500	3090500	39871	71227	62042	0	0	0
AAVFHEKDYDSLAQPGFFDR	COL6A2	P12110	CO6A2	HUM	Unmodified	1605700	1543700	1317300	0	0	0	0	23163	0
AAVGEEKDINTFVGTPVEKLDLLGNLPGSK	MKI67	P46013	KI67	HUMA	Unmodified	0	0	791150	0	0	0	0	0	0
AAVGQESPGGLEAGNAKAPK	PDS5A	Q29RF7	PDS5A	HUM	Deamidation (N)	968450	0	0	70168	0	58872	0	0	0
AAVGRPLDKHEGALETLLR	PDCD6IP; PDCD6IP;	Q8WUM4; F8WE	PDC6I	HUM	Unmodified	3728500	2493400	2885200	0	0	0	0	0	0
AAVIGDVIR	DDX21	Q9NR30	DDX21	HUM	Unmodified	8911900	6885300	9744300	0	124890	104130	0	0	0
AAVKDVEEEKFPTQLSR	SMU1	Q2TAY7	SMU1	HUMA	Unmodified	6030800	2409700	5942000	438110	438160	0	0	0	0
AAVKEPLEFHAK	CEBPZ	Q03701	CEBPZ	HUM	Acetyl (Protein N-t	2391100	2344100	2291900	275390	368020	548020	0	0	71737
AAVLGENGR	RALY; RALY; RALY	Q9UKM9; Q5QPA	RALY	HUM	Deamidation (N)	21082000	13772000	12411000	400670	441550	562730	0	0	17322
AAVLGENGRVLAGQTLDINMAGEPKPDRPK	RALY; RALY; RALY	Q9UKM9; Q5QPL	RALY	HUM	Oxidation (M);Deai	16460000	5469700	10140000	0	0	0	0	0	0
AAVLGENGRVLAGQTLDINMAGEPKPDRPK	RALY; RALY; RALY	Q9UKM9; Q5QPL	RALY	HUM	Oxidation (M);2 De	6427900	6452800	6921000	0	0	0	0	0	0
AAVLKPVLLGLR	PDCD2L	Q9BRP1	PDD2L	HUM	Acetyl (Protein N-t	520170	364730	644970	0	0	0	0	0	0
AAVLLEQER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	7601700	5664500	4719100	475870	296520	371300	0	0	0
AAVLLEQERQQEIAK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	35197000	39648000	42779000	2187200	2507600	2770100	148040	206810	119900
AAVLQQVLER	TPR; TPR	P12270; Q5SWX9	TPR	HUMAN	Acetyl (Protein N-t	512460	390280	396160	0	0	0	0	0	9209.5
AAVLQQVLERTELNKLPK	TPR; TPR	P12270; Q5SWX9	TPR	HUMAN	Acetyl (Protein N-t	1144300	328390	648610	0	0	0	0	0	0
AAVLQQVLERTELNKLPK	TPR; TPR	P12270; Q5SWX9	TPR	HUMAN	Acetyl (Protein N-t	124570	0	151690	0	0	0	0	0	0
AAVMVHQLSK	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1	HUM	Oxidation (M)	507770	233350	418580	74067	43914	62073	0	0	0
AAVMVVDDANKK	ENAH; ENAH; ENAI	Q8N8S7; A0A0U1	ENAH	HUM	Oxidation (M)	0	959970	0	0	0	90608	0	0	0
AAVPDAVGK	ATP1A1; ATP1A2; A	P05023; P50993;	AT1A1	HUM	Unmodified	1708000	1932600	2070900	202400	205130	188090	0	0	0
AAVPELLQQQEEDRSK	SNX5; SNX5; SNX5;	Q9Y5X3; Q5QPE	SNX5	HUMA	Acetyl (Protein N-t	1358200	737060	1927800	87456	75803	67228	0	42164	58853
AAVPELLQQQEEDRSKLR	SNX5; SNX5	Q9Y5X3; Q5QPE	SNX5	HUMA	Acetyl (Protein N-t	4557700	4426000	7020800	623140	319570	0	1474500	447310	762600
AAVPSGASTGIYEALELR	ENO1; ENO3; ENO2;	P06733; P13929;	ENOA	HUM	Unmodified	44442000	29958000	28752000	273150	306800	283100	315360	288800	285890
AAVPSGASTGIYEALELRDGDK	ENO3; ENO2; ENO3;	P13929; P09104;	ENOB	HUM	Unmodified	2914100	1380500	2390200	0	0	0	0	0	0
AAVPSGASTGIYEALELRDGDKGR	ENO3; ENO3; ENO3;	P13929; E5RJ09;	ENOG	HUM	Unmodified	939540	1437700	1444400	0	0	0	0	0	0
AAVPSGASTGIYEALELRDGDKQR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG	HUM	Unmodified	24076000	30534000	22770000	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Unmodified	4053200	3692300	5414800	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Deamidation (N)	5252800	3618500	3615100	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDKTR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Unmodified	83665000	70540000	69765000	0	75339	0	47284	25971	0
AAVPSGASTGIYEALELRDNDKTR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Deamidation (N)	115230000	105220000	95283000	36281	0	0	34250	0	0
AAVPSGASTGIYEALELRDNDKTR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Methyl (KR)	4060300	1752800	2499000	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDKTR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Methyl (KR);Deam	2596900	1917800	2451700	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDKTRYMGK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Oxidation (M)	30038000	21822000	21953000	0	0	0	0	0	0
AAVPSGASTGIYEALELRDNDKTRYMGK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Oxidation (M);Deai	158750000	128230000	111120000	0	0	0	0	0	0
AAVPSIKFCLDNGAK	PGK1	P00558	PGK1	HUMA	Deamidation (N)	2220600	2946400	3570800	52480	0	29625	0	0	0
AAVQMDPELAKR	AAR2; AAR2; AAR2	Q9Y312; A0A7P0	AAR2	HUMA	Acetyl (Protein N-t	1447500	1745300	0	0	0	0	0	0	0
AAVQVLDDIEKCLEK	MMUT	P22033	MUTA	HUM	Unmodified	398670	526140	682790	0	0	0	0	0	0
AAVSHWQQQSYLDSGIHSGATTTAPSLSGK	CTNNB1; CTNNB1;	P35222; C9JZ65;	CTNB1	HUM	Unmodified	0	0	1499200	0	0	0	0	0	0
AAVTSPPPTTAPHKER	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	868470	1530600	1561900	704280	725300	808460	0	0	0
AAWEAYLSR	UMPS	P11172	UMPS	HUM	Unmodified	1274800	0	1378800	0	0	0	0	0	0
AAWEVDSGR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	0	2383000	2513400	54305	0	44713	0	0	0
AAYEAELGDAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	7809400	6699200	6153800	1010400	889910	1138700	0	0	0
AAYEAELGDARK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	2364000	5144900	5723300	457410	196570	450190	0	0	0
AAYIYIR	NDUFV1; NDUFV1;	P49821; B4DE93;	NDUV1	HUM	Unmodified	1154500	736450	826670	31884	19826	55597	0	0	0
AAYKLVLIR	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1	HUM	Acetyl (Protein N-t	3811700	3749800	3249100	683550	828930	689120	943910	809120	868400
AAYLNMSEDPSHPSMALNTR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUMA	2 Oxidation (M)	1509800	1313800	1390200	43820	42593	0	0	0	0
AAYLNMSEDPSHPSMALNTR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUMA	2 Oxidation (M);De	0	0	901990	0	0	0	0	0	0
AAYNLVR	COTL1	Q14019	COTL1	HUM	Unmodified	12449000	11108000	10773000	136200	111520	74899	0	0	0
AAYNLVR	COTL1	Q14019	COTL1	HUM	Deamidation (N)	0	1084500	1160300	0	0	0	0	0	0
AAYQAAIR	TONSL	Q96HA7	TONSL	HUM	Unmodified	415960	634950	502390	0	0	0	0	0	0
AAYQVAALPK	RIDA; RIDA; RIDA	P52758; H0YB34;	RIDA	HUMA	Unmodified	2971700	1896700	1964900	189600	131340	107900	0	0	0
AAYVLFYQR	USP11; USP4; USP15	P51784; Q13107;	UBP11	HUM	Unmodified	3637500	3394200	3276500	45685	47729	56276	13778	0	0
ACDFLLSR	LSS; LSS	P48449; A0A0G2	LSS	HUMAN	Unmodified	0	0	862840	90662	78043	25487	10414	0	0
ACGLVASNLNLKPGECLR	LGALS1; LGALS1	P09382; F8WEI7	LEG1	HUMA	Acetyl (Protein N-t	0	1682400	0	55396	34767	18525	398110	51991	123960
ACGNFGIPCELR	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6	HUMA	Unmodified	1380800	1036200	899840	0	31580	29881	0	0	0
ACGSEIMQK	DSP	P15924	DESP	HUMA	Oxidation (M)	0	0	257230	0	0	0	0	0	0
ACPRPEGLNFQDLK	RPA2; RPA2	P15927; Q5TEJ0	RFA2	HUMA	Unmodified	725280	1563900	727610	15189	23622	0	0	0	0
ACTILLR	CCT3; CCT3	P49368; B4DUR8	TCPG	HUMA	Unmodified	0	2665200	2459200	84545	53743	0	0	0	6407.7
ACTNHKTMFRNACSCLHGK	N/A	N/A	N/A		Unmodified	3055700	0	484880	0	0	0	0	0	0
ADAAASPVGKR	KDM3B	Q7LBC6	KDM3B	HUM	Acetyl (Protein N-t	1009200	631200	690810	59129	0	61342	0	0	0
ADAAPQLGKR	DCPS	Q96C86	DCPS	HUMA	Acetyl (Protein N-t	0	2012300	2075200	931030	709190	1181100	0	269090	279690
ADAGKEGNNPAENGDAK	HMGN2	P05204	HMGN2	HUM	Deamidation (N)	412630	623520	446560	31535	34673	45353	0	0	0
ADAGKEGNNPAENGDAK	HMGN2	P05204	HMGN2	HUM	2 Deamidation (N)	490890	994220	0	33993	60785	90384	0	0	0
ADAGKEGNNPAENGDAKTDQAQK	HMGN2	P05204	HMGN2	HUM	Deamidation (N)	2320800	2039500	756590	27400	28334	45759	0	0	0
ADAGKEGNNPAENGDAKTDQAQKAEGAGDAK	HMGN2	P05204	HMGN2	HUM	Deamidation (N)	56794000	97686000	98973000	10177000	11107000	8452000	0	0	0
ADAGKEGNNPAENGDAKTDQAQKAEGAGDAK	HMGN2	P05204	HMGN2	HUM	Methyl (KR);Deam	13475000	27049000	21378000	1286600	0	1623600	0	0	0
ADAGKEGNNPAENGDAKTDQAQKAEGAGDAK	HMGN2	P05204	HMGN2	HUM	2 Deamidation (N)	6405600	0	0	0	0	0	0	0	0
ADAKAYSDPSTGEPATYGELQQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	0	0	0	680070	719360	652970	68899	0	74099
ADALQAGASQFETSAAK	VAMP3; VAMP2; N/	Q15836; P63027;	VAMP3	HUM	Unmodified	986390	1229000	1346800	24504	18411	0	0	0	0
ADANKAEVPGATGGDSPHLQPAEPPGEPR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A0	MYEF2	HUM	Acetyl (Protein N-t	2286000	2690100	2842900	152810	207030	159390	0	0	0
ADANKAEVPGATGGDSPHLQPAEPPGEPR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A0	MYEF2	HUM	Acetyl (Protein N-t	2110700	803930	1660600	0	0	0	0	0	0
ADAPVALVVHMAPASVLVDSR	ELAC2; ELAC2; EL/	Q9BQ52; H7C2I4;	RNZ2	HUMA	Oxidation (M)	0	1125200	1637700	0	0	0	0	0	0
ADATNVNNWHWTER	AHSA1; AHSA1	O95433; G3V3W9	AHSA1	HUM	Deamidation (N)	1689300	658120	0	0	0	0	0	0	0
ADAVWNK	LRPPRC	P42704	LPPRC	HUM	Unmodified	1287000	1559100	1257600	0	0	0	0	0	0
ADAVWNKIQEENVIPR	LRPPRC	P42704	LPPRC	HUM	Unmodified	1450900	1544200	1391900	0	0	0	0	0	0
ADAYTVELENAESR	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ADDADFGYSR	SND1	Q7KZF4	SND1	HUM	Unmodified	1079100	1053700	847990	134990	102410	113620	0	0	0
ADDILASPPR	COL18A1; COL18A1	P39060; H7C457;	COIA1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ADDLLPLGDQTQDGDFGSR	SART1	O43290	SNUT1	HUM	Unmodified	579650	622890	553050	0	0	0	0	0	0
ADDPLLKLLQEAQQS	DCPS; DCPS	Q96C86; A0A3B3	DCPS	HUMA	Unmodified	4859200	5483000	6049500	0	0	0	0	0	0
ADDPLRLDQELQQPQTQEK	TP53BP1; TP53BP1;	Q12888; H7C3N7;	TP53B	HUM	Unmodified	4172200	2729600	2621900	121070	90038	89136	0	0	0
ADDTSAATIEK	WBP11	Q9Y2W2	WBP11	HUM	Unmodified	900410	767770	639490	0	0	0	0	0	0
ADDYEQVK	ATP6V0D1; ATP6V0	P61421; R4GN72;	VA0D1	HUM	Unmodified	454690	435070	419190	37446	26265	0	0	0	0
ADDYEQVKNVADYYPEYK	ATP6V0D1; ATP6V0	P61421; R4GN72;	VA0D1	HUM	Unmodified	1735400	1022900	0	0	0	0	0	0	0
ADEALFLLLHNEMVSGVYK	TRAPPC6B; TRAPPC	Q86SZ2; G3V2H7	TPC6B	HUM	Acetyl (Protein N-t	181610	43014	146160	0	0	0	0	0	0
ADEATRR	UFC1	Q9Y3C8	UFC1	HUMA	Acetyl (Protein N-t	0	0	4459000	0	0	0	0	0	0
ADEAYLIGR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMAN	Unmodified	1343200	556280	696600	43835	31535	0	0	0	0
ADEDPIMGFHQMFLLK	NUTF2; NUTF2	P61970; H3BRV9	NTF2	HUMA	2 Oxidation (M)	5631000	4343900	4145200	0	0	0	0	9324.2	0
ADEEKLPPGWEK	PIN1; PIN1P1; PIN1;	Q13526; O15428;	PIN1	HUMA	Acetyl (Protein N-t	1878900	1409800	1804300	114250	190910	108090	0	0	0
ADEEKLPPGWEKR	PIN1; PIN1P1; PIN1;	Q13526; O15428;	PIN1	HUMA	Acetyl (Protein N-t	4370600	4614400	3636500	531810	584960	450370	0	64631	0

ADEELEALRR	PDCD5; PDCD5; PDC	O14737; X6R2P6;	PDCD5	HUM	Acetyl (Protein N-t	19829000	20913000	22307000	630420	617730	620050	0	14989	0
ADEELEALRRQR	PDCD5; PDCD5; PDC	O14737; X6R2P6;	PDCD5	HUM	Acetyl (Protein N-t	0	0	0	795520	1142600	1193700	122400	168450	130520
ADEGKSYSEHDDERVNFPQR	NXF1; NXF1	Q9UBU9; E9PQA	NXF1	HUM	Acetyl (Protein N-t	846150	930230	0	0	0	0	0	0	0
ADEIAKAQVARPGGDTIFGK	HINT1; HINT1; HINT	P49773; H0YC49;	HINT1	HUM	Acetyl (Protein N-t	22658000	18806000	20529000	682000	704320	426840	236940	54979	0
ADEIAKAQVARPGGDTIFGK	HINT1; HINT1; HINT	P49773; H0YC49;	HINT1	HUM	Acetyl (Protein N-t	5512200	4965200	5477200	22241	20608	21008	0	0	0
ADEKPKEGVK	SUMO2	P61956	SUMO2	HUM	Acetyl (Protein N-t	0	1113800	995670	0	0	0	0	0	0
ADEKPKEGVKTENNDHINLK	SUMO2	P61956	SUMO2	HUM	Acetyl (Protein N-t	5925100	3519600	5777300	231430	52571	105020	0	0	0
ADEKPKEGVKTENNDHINLK	SUMO2	P61956	SUMO2	HUM	Acetyl (Protein N-t	6967200	7172900	6089800	79373	97211	189470	0	0	0
ADENIIVR	MCCC2; MCCC2; M	Q9HCC0; D6RD6	MCCB	HUM	Acetyl (Protein N-t	1140600	671790	939860	49202	76442	68936	0	0	0
ADEVLEILK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUM	Unmodified	502820	508160	639290	0	0	15357	0	0	0
ADFDDRVSDEEKVR	CAPZA1	P52907	CAZA1	HUM	Acetyl (Protein N-t	45490000	35960000	2222300	3735600	2943600	3240800	45511	0	0
ADFDNTVAIHPTSSEELVTLR	GSR	P00390	GSHR	HUM	Unmodified	2933900	6077500	5285800	0	0	0	29644	0	0
ADFDNTVAIHPTSSEELVTLR	GSR	P00390	GSHR	HUM	Deamidation (N)	1645100	1457200	1367800	0	0	0	0	0	0
ADFDTYDDRAYSSFGGGR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUM	Acetyl (Protein N-t	2802000	2430600	2084600	128890	183210	101940	39163	0	0
ADFIRESSEAQVQK	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C	HUM	Unmodified	3259000	2009000	1325000	76601	0	0	0	0	0
ADFLEQPVLGFVR	SLC4A1; SLC4A1	P02730; A0A0A0	B3AT	HUM	Unmodified	2199700	3373100	3668000	0	0	0	0	0	0
ADFREPNAEVPRPIPHIGPDYIPTEEER	OCIAD1; OCIAD1; O	Q9NX40; D6RDI5	OCAD1	HUM	Unmodified	2812800	3017800	4014200	0	0	0	0	0	0
ADFREPNAEVPRPIPHIGPDYIPTEEER	OCIAD1; OCIAD1; O	Q9NX40; D6RDI5	OCAD1	HUM	Deamidation (N)	2782600	0	1224700	0	0	0	0	0	0
ADFSGMSQTDLSLSK	SERPINB6; SERPINE	P35237; A0A087	SPB6	HUM	Oxidation (M)	1639600	1968100	0	98699	63485	0	0	0	0
ADGETILK	SMS; SMS	P52788; H7C2R7	SPSY	HUM	Unmodified	2713700	1682500	1741500	109670	0	0	0	0	0
ADGGGPKDAPSLR	TMEM245	Q9H330	TM245	HUM	Acetyl (Protein N-t	515850	238320	229570	384020	411380	373950	22511	0	13149
ADGGGPKDAPSLR	TMEM245	Q9H330	TM245	HUM	Acetyl (Protein N-t	0	355910	0	585490	478590	454230	20398	28037	19938
ADGGTQVIDTK	DLD; DLD	P09622; E9PEX6	DLDH	HUM	Unmodified	3295700	3668200	1410000	140240	0	371520	0	0	0
ADGIVSKNF	RPS21	P63220	RS21	HUM	Unmodified	1975600	2811100	2352100	2638800	2900600	2461700	263920	159390	194940
ADGKAGDEKPEK	PCNP; PCNP; PCNP	Q8WW12; A0A0E	PCNP	HUM	Acetyl (Protein N-t	1371200	2119500	0	0	62328	65720	0	0	8230.9
ADGKAGDEKPEKSQR	PCNP; PCNP; PCNP	Q8WW12; A0A0E	PCNP	HUM	Acetyl (Protein N-t	0	0	0	476680	5623700	135480	0	0	0
ADGKISEQSDAK	ATP5F1A	P25705	ATPA	HUM	Unmodified	364750	286900	255780	0	0	0	0	0	0
ADGYVLEGK	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Unmodified	969140	2592200	2045900	91147	0	32697	0	0	0
ADGYVLEGKELEFYLR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Unmodified	4154800	1029200	3527200	0	0	0	0	0	0
ADGYVLEGKELEFYLRK	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Unmodified	850570	624390	538560	0	0	0	0	0	0
ADHDFVVQEDFMK	PSMC6; PSMC6	P62333; A0A087	PRS10	HUM	Oxidation (M)	5369700	5284800	5443200	249860	154960	183190	0	0	0
ADHGEPIGR	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	Unmodified	9148200	0	0	0	0	0	0	0	0
ADHGEPIGRGTK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	Unmodified	7702500	5607500	5109300	199490	347790	848740	123600	32121	56424
ADHQPLTEASYVNLPTIALCNTDSPLR	RPSA; RPSA; RPSA	P08865; A0A0C4	RSSA	HUM	Unmodified	3466200	2403700	5099800	0	0	0	0	0	0
ADHSFSDGVPSDSVEAAK	NAP1L4; NAP1L4; N	O99733; C9J6D1;	NP1L4	HUM	Acetyl (Protein N-t	0	427630	354170	29831	21583	0	0	0	0
ADHVQSLAQLENLCK	XPO7; XPO7	Q9UIA9; H0YBE1	XPO7	HUM	Acetyl (Protein N-t	691670	491300	0	0	0	0	0	0	0
ADIEEIK	NUCB2; NUCB2; NU	P80303; Q2L696;	NUCB2	HUM	Unmodified	822730	1234600	825350	0	0	0	0	0	0
ADIEMPFDPSKVVASGPGLEHGK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Oxidation (M)	0	0	1262600	82273	50907	48624	19227	0	15279
ADIGVAMGIAGSDVSK	ATP1A1; ATP1A3; N	P05023; P13637;	AT1A1	HUM	Oxidation (M)	2917400	4053600	2453100	365770	240130	251040	0	0	0
ADIKEMGLSLQWLYSAR	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUM	Oxidation (M)	988970	945140	1197900	0	0	0	0	0	0
ADILEDKDGK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	2235900	1833200	3472800	639190	0	0	0	0	0
ADILEDKDGKSR	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	2394800	2285300	2647600	61081	137140	92439	0	0	0
ADKDYHFKVDNDENEHQLSLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUM	Unmodified	1572200	2503200	3119500	0	0	0	0	0	0
ADKDYHFKVDNDENEHQLSLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUM	2 Deamidation (N)	1378100	1138500	386400	0	0	0	0	0	0
ADKEAAFDDAVEER	RBBP4; RBBP4; RBI	Q09028; E9PIC4;	RBBP4	HUM	Acetyl (Protein N-t	25896000	16468000	24762000	1457800	1138400	1266700	0	0	0
ADKLAEEHSS	ATP5F1B	P06576	ATPB	HUM	Unmodified	3791100	3688900	4392200	607980	768720	543040	0	0	0
ADKMDMSLDDIIK	ALYREF; ALYREF	Q86V81; E9PB61	THOC4	HUM	Acetyl (Protein N-t	7068000	6112700	6805700	184410	245490	183950	0	0	0
ADKMDMSLDDIIKLNR	ALYREF; ALYREF	Q86V81; E9PB61	THOC4	HUM	Acetyl (Protein N-t	16596000	18658000	18198000	825600	549590	492110	232010	166010	219050
ADKMDMSLDDIIKLNR	ALYREF; ALYREF	Q86V81; E9PB61	THOC4	HUM	Acetyl (Protein N-t	4834000	2162300	3141400	75813	0	0	0	0	0
ADKPDMGEIASFDK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	76981000	73875000	74910000	624020	595630	560500	0	25633	0
ADKPDMGEIASFDK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	4812800	5178000	4851400	0	40395	0	0	0	0
ADKPDMGEIASFDKAK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	357170000	359580000	354420000	25838000	23541000	24704000	580410	444000	484160
ADKPDMGEIASFDKAK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	31228000	35149000	37461000	1585300	1477300	1757500	59141	0	0
ADKPDMGEIASFDKAK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	924180	1281700	1385000	0	68226	0	0	0	10086
ADKPDMGEIASFDKAKLK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	1533900	1201900	1318100	1092800	1040200	1103000	0	0	0
ADKPDMGEIASFDKAKLK	TMSB10	P63313	TYB10	HUM	Acetyl (Protein N-t	9618900	11051000	11635000	735390	603120	127800	0	0	0
ADKTPGGSQK	U2SURP; U2SURP; U	O15042; C9J5L1;	SR140	HUM	Acetyl (Protein N-t	1168500	1030600	1274100	228090	222840	219340	0	0	0
ADKTPGGSQKASSK	U2SURP; U2SURP; U	O15042; C9J5L1;	SR140	HUM	Acetyl (Protein N-t	0	0	0	233880	0	82165	0	0	0
ADLAAQYTTVGR	SGSH; SGSH	P51688; I3NI22	SPHM	HUM	Unmodified	0	512910	573540	0	0	0	0	0	0
ADLAEEYSK	UBE2L3	P68036	UB2L3	HUM	Unmodified	1319200	1173100	1174200	38011	41614	0	0	0	0
ADLAEEYSKDR	UBE2L3	P68036	UB2L3	HUM	Unmodified	791540	1226600	753690	62194	45247	23748	0	0	0
ADLANEEKPAIAPPVFVFQK	RANBP3; RANBP3;	Q9H6Z4; B7Z7F3	RANB3	HUM	Acetyl (Protein N-t	5310700	5032100	5114600	42499	0	14867	0	0	0
ADLANEEKPAIAPPVFVFQK	RANBP3; RANBP3;	Q9H6Z4; B7Z7F3	RANB3	HUM	Acetyl (Protein N-t	5237200	5537200	3932700	19439	0	0	0	0	0
ADLATAPPHVTVVR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	1193200	850970	955090	0	97294	129090	0	0	0
ADLDKLNIDSIIQR	PPP1CC; PPP1CC; P	P36873; F8VYE8;	PP1G	HUM	Acetyl (Protein N-t	1773500	1356200	2845300	0	0	0	0	0	0
ADLDKLNIDSIIQR	PPP1CC; PPP1CC; P	P36873; F8VYE8;	PP1G	HUM	Acetyl (Protein N-t	345470	0	509740	0	0	0	0	0	0
ADLDVSGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	2583700	884290	3341300	0	0	0
ADLEEQLSDEEKVR	CAPZA2; CAPZA2; (	P47755; F8W9N7;	CAZA2	HUM	Acetyl (Protein N-t	5317400	2878500	3333300	265990	315840	255050	0	0	0
ADLELPWRPLYDMVER	PSME4; PSME4	Q14997; F8WBH5	PSME4	HUM	Oxidation (M)	164940	178400	178580	0	0	0	0	0	0
ADLESESFRPNLSDPSELLLPDQIEK	OXR1	Q8N573	OXR1	HUM	Unmodified	1296900	1219000	1343100	0	0	0	0	0	0
ADLGVSGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	218700	265970	282390	0	0	0
ADLINNLGTIAK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Deamidation (N)	42103000	34238000	33340000	463070	417040	397340	0	12843	0
ADLINNLGTIAK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Unmodified	31409000	30298000	33597000	180050	0	182160	50241	0	0
ADLINNLGTIAK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	2 Deamidation (N)	988310	1330900	1247200	0	0	0	0	0	0
ADLINNLGTIAKSGTK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Unmodified	409100	391860	939640	0	0	0	0	0	0
ADLINNLGTIAKSGTK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Methyl (KR)	712500	251920	1654000	0	0	0	0	0	0
ADLISEDVQRR	ARHGEF1; ARHGEF	Q92888; M0QZR4	ARHG1	HUM	Unmodified	610490	1889700	1097900	57745	74536	44397	0	0	9189.6
ADLLGSILSSMEKPPSLGDQETR	SPAG7	O75391	SPAG7	HUM	Acetyl (Protein N-t	3793600	2357200	3464000	0	0	0	0	0	0
ADLLGSILSSMEKPPSLGDQETR	SPAG7	O75391	SPAG7	HUM	Acetyl (Protein N-t	0	67283	0	0	0	0	0	0	0
ADLLGSILSSMEKPPSLGDQETRR	SPAG7	O75391	SPAG7	HUM	Acetyl (Protein N-t	0	1265600	1180400	0	0	0	0	0	0
ADLLLSTQPGREEGSPLELER	SLC3A2; SLC3A2; SI	P08195; A0A7P0Z	4F2	HUMAN	Unmodified	0	1608200	0	0	0	0	42151	20613	37609
ADLLQREEEEEEEEDQEGDRETTIR	PWP2; LOC1027241;	Q15269; A0A0B4	PWP2	HUM	Unmodified	1413700	1691500	3054700	0	0	0	0	0	0
ADLLTAEQR	LSG1	Q9H089	LSG1	HUM	Unmodified	534100	0	0	0	0	0	0	0	0
ADLNQGIGEPQSPSR	EFHD2	Q96C19	EFHD2	HUM	Unmodified	1151100	1126900	1436500	0	0	0	0	0	0
ADLNQGIGEPQSPSR	EFHD2	Q96C19	EFHD2	HUM	Deamidation (N)	897460	742060	1054900	0	0	0	0	0	0
ADLNQGIGEPQSPSRR	EFHD2	Q96C19	EFHD2	HUM	Unmodified	10170000	7380500	8363800	0	0	0	0	0	0
ADLNQGIGEPQSPSRR	EFHD2	Q96C19	EFHD2	HUM	Deamidation (N)	4244400	2700900	2669400	60827	69937	80333	25113	0	0
ADLQAAAVR	HGH1; HGH1	Q9BTY7; E9PIX0	HGH1	HUM	Unmodified	1545600	1708200	1537500	0	0	0	0	0	0
ADLSGITGAR	SERPINA3; SERPIN/	P01011; G3V3A0	AACT	HUM	Unmodified	17422000	13621000	14012000	409660	0	695370	0	0	0
ADLSLADALTEPSPDIEGEIKR	MAP4; MAP4; MAP4	P27816; A0A0J9Y	MAP4	HUM	Acetyl (Protein N-t	1356200	470320	1217200	0	0	0	0	0	0
ADLTALFLPR	FLII	Q13045	FLII	HUMAN	Unmodified	1663200	2027400	2035300	0	0	30385	0	11033	0
ADLTEYLSTHYK	UQCRC1	P31930	QCR1	HUM	Unmodified	10901000	12304000	10220000	125710	186860	112710	17300	19755	10543
ADLTEYLSTHYKAPR	UQCRC1	P31930	QCR1	HUM	Unmodified	12694000	13159000	13914000	167110	189620	146960	0	29060	21999
ADMQNLVERLER	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1	HUM	Acetyl (Protein N-t	6635300	3485300	11951000	841960	690620	760790	83020	156230	159450
ADMQNLVERLER	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1	HUM	Acetyl (Protein N-t	633930	941470	365790	29877	28930	23141	0	0	0
ADMVIEAVFEDLSLK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Oxidation (M)	975070	121080	619530	0	0	0	0	0	0
ADMVIEAVFEDLSLKHR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Oxidation (M)	4483400	2733400	2256400	0	0	0	0	0	0
ADMVIEAVFEDLSLKHR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Oxidation (M);Metl	434270	349790	272110	0	0	0	0	0	0
ADNKQKGDVVLQSDHVIETLTK	MYO1C; MYO1C	O00159; F5H6E2	MYO1C	HUM	Unmodified	466580	492910	358640	0	0	0	0	0	0
ADNLIPGSR	ISYNA1	Q9NPH2	INO1	HUM	Unmodified	4226500	3537700	4736000	54112	43493	115800	0	0	0
ADPEAAWEPTEAEAR	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUM	Unmodified	4566600	4200400	3503700	74443	57057	77342	0	0	0
ADPEVCCFITKILCAHGGR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV	HUM	Acetyl (Protein N-t	0	500030	0	0	57865	0	0	0	0
ADPKYADLPGIAR	DCTN2; DCTN2; DC	O13561; A0A7I2V	DCTN2	HUM	Acetyl (Protein N-t	0	0	0	461950	357770	348580	114620	0	124210
ADPPYTHTIQK	EPS8; EPS8	Q12929; A0A2R8	EPS8	HUM	Unmodified	367450	364220	404400	0	0	0	0	0	0
ADQDRLDLEER	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	1724200	1685400	1869400	46075	57809	52019	0	0	0
ADQDSEAMKR	TLN1	Q9Y490	TLN1	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
ADQEEQIHPR	LIMA1; LIMA1; LIM	Q9UHB6; F8VRN	LIMA1	HUM	Unmodified	491370	0	0	0	654250	972570	0	62942	0
ADQFEYVMYGK	POLR2H; POLR2H	P52434; C9JLU1	RPAB3	HUM	Oxidation (M)	1677300	1399500	1367200	0	0	0	0	0	0
ADQLTEEQIAEFK	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2	HUM	Acetyl (Protein N-t	1273100	1854000	1385700	0	0	0	0	0	10646
ADQLTEEQIAEFKEAFSLFDKDGDGTITTK	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2	HUM	Acetyl (Protein N-t	2023000	0	615340	0	0	0	0	0	0
ADQSFTSPPPRDFLLDIAR	TAF9B; TAF9; TAF9	Q9HBM6; Q1659	TAF9B	HUM	Unmodified	2664700	938700	2601500	0	0	0	0	0	0
ADRDESSPYAAMLAAQDVAQR	RPS14; RPS14; RPS1	P62263; E5RH77;	RS14	HUM	Oxidation (M)	0	5945700	5623300	57653	0	0	0	0	0
ADSGLLLKR	NOL9	Q5SY16	NOL9	HUM	Acetyl (Protein N-t	920020	1040400	357690	165040	163080	91812	18296	12964	0
ADSKEGVLPLTAASTAPISFGFTR	GPKOW	Q92917	GPKOW	HUM	Acetyl (Protein N-t	2032500	1531200	1912000	0	0	0	0	0	0
ADSLLAVVK	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	8252400	6996300	7689200	180530	215400	167530	0	0	0
ADTGLETSTR	MRE11	P49959	MRE11	HUM	Unmodified	1764200	1692800	2135200	277900	263470	277780	0	0	0
ADTLDPALLRPGR	PSMC4	P43686	PRS6B	HUM	Unmodified	1313000	1997200	1813900	77418	58452	51735	0	0	0
ADTLTLEER	SEPTIN9; SEPTIN9;	Q9UHD8; K7EL4(	SEPT9	HUM	Unmodified	3617100	3391600	3173000	0	0	0	0	0	0
ADTPSLGEGPEK	STXBP2; STXBP2	Q15833; M0R0M7	STXB2	HUM	Unmodified	1390800	1812700	0	0	0	0	0	0	0
ADTQTYQPYNKDWIKEK	ERH	P84090	ERH	HUMAN	Unmodified	0	997070	1228200	0	0	0	0	0	0
ADVDISGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	719570	1129200	971110	1384300	2280800	1319900	0	0	0
ADVDVQPYAFTTK	GTPBP4	Q9BZE4	GTPB4	HUM	Unmodified	4307900	2569400	2941600	79790	67979	0	0	0	0
ADVDVSGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	1031900	725680	581890	651860	636730	0	0	0
ADVDVSGPKMDAEVPDVNIEGPDAK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	728130	0	0	67590	0	0	0	0
ADVGGEAAGTSINHSQAVLQR	BTBD17	A6NE02	BTBDH	HUM	Unmodified	1599700	2064100	2929400	0	0	0	0	0	0
ADVGGEAAGTSINHSQAVLQR	BTBD17	A6NE02	BTBDH	HUM	Deamidation (N)	2236900	1884900	3161800	0	0	0	0	0	0
ADVIQATGDAICIFR	SSRP1; SSRP1	Q08945; E9PMD4	SSRP1	HUM	Unmodified	2607100	1973200	2266600	0	0	0	0	0	0
ADVKGGTLTQYEGK	UGP2; UGP2; UGP2;	Q16851; E7EUC7;	UGPA	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
ADVLDLHEAGGEDFAMDEDGDESIHK	RBM8A	Q9Y5S9	RBM8A	HUM	Acetyl (Protein N-t	3749900	0	7148600	0	0	0	0	0	0
ADVLDLHEAGGEDFAMDEDGDESIHKLK	RBM8A	Q9Y5S9	RBM8A	HUM	Acetyl (Protein N-t	1846300	1052000	0	0	0	0	0	0	0
ADVLDLHEAGGEDFAMDEDGDESIHKLKEK	RBM8A	Q9Y5S9	RBM8A	HUM	Acetyl (Protein N-t	4389900	2527600	0	0	0	0	0	0	0
ADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Unmodified	7718300	5853500	0	0	0	0	0	0	0

ADVVVGKDKGGEQR	CHRAC1; CHRAC1	Q9NRG0; E5RGS9	CHRC1	HUM	Acetyl (Protein N-t	2477500	2283500	3064100	162040	127960	121130	0	0	0
ADVVVSGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	773970	776990	751420	423160	414480	416380	0	15013	0
ADYDTLSLR	PKP3; PKP3; PKP3; I	Q9Y446; E9PK71	PKP3	HUM	Unmodified	0	3594000	607180	46229	49806	0	0	0	0
ADYEIASK	LUC7L2; LUC7L; LL	Q9Y383; Q9NQ29	LC7L2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ADYEKHKVYACEVTHQGLSSPVTK	IGKC; IGKC	P01834; A0A5H1	IGKC	HUM	Unmodified	5006300	4601800	5689000	641880	577070	184370	56399	78247	0
AEAAASALADADADLEER	CHMP2A; CHMP2A	O43633; M0R1T5	CHM2A	HUM	Unmodified	1064400	812340	1151300	21235	23448	0	0	0	0
AEAAASALADADADLEERLK	CHMP2A; CHMP2A	O43633; M0R1T5	CHM2A	HUM	Unmodified	3329200	3100900	1651500	0	0	0	0	0	0
AEAALEEESR	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1	HUM	Unmodified	1347500	1308100	1077300	55903	66211	0	0	0	0
AEAALLLLPEAAAERDAR	COG3	Q96JB2	COG3	HUM	Acetyl (Protein N-t	1182300	917460	1068600	0	0	0	0	0	0
AEAALLLLPEAAAERDAREK	COG3	Q96JB2	COG3	HUM	Acetyl (Protein N-t	1756600	1543900	2083100	11593	0	0	22352	0	0
AEACFVNCVER	TIMM8A	O60220	TIM8A	HUM	Unmodified	570260	0	0	0	0	0	0	0	0
AEAEAQAEELSFPR	PC	P11498	PYC	HUM	Unmodified	2538600	2862000	2009200	0	0	0	0	0	0
AEAEKTFSYPLDLLLK	TRAPPC4; TRAPPC	Q9Y296; G5EA23	TPPC4	HUM	Unmodified	409660	437200	501500	0	0	0	0	0	0
AEAERLGHELQQAGLK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	745780	502750	538130	13088	0	0	0	0	0
AEAERPEEQAEASGLKK	AKAP12	Q02952	AKA12	HUM	Unmodified	0	0	0	0	279860	473360	0	0	0
AEAGAGSATEFQFR	RPS10; RPS10P5	P46783; Q9NQ39	RS10	HUM	Unmodified	10927000	10863000	11484000	757940	840670	754170	132550	126940	106820
AEAGDNLGALVR	TUFM	P49411	EFTU	HUM	Deamidation (N)	933310	1025700	1305500	29365	34695	0	0	0	0
AEAGEQPGTAER	RRP1	P56182	RRP1	HUM	Unmodified	7451600	5259700	11893000	0	1061000	1219300	0	509850	280740
AEAGPEGVAPAPEGEKK	HYOU1; HYOU1; H	Q9Y4L1; A0A494	HYOU1	HUM	Unmodified	1142900	1358400	1243600	0	0	75812	0	24025	0
AEAGVPAEFSIWTR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA	HUM	Unmodified	17380000	25135000	18343000	161590	180340	135000	1162300	976390	1090300
AEALPLQR	ITGA6	P23229	ITA6	HUM	Unmodified	1935900	2212400	1717700	62766	65269	77539	0	0	0
AEAPAGPALGLPSPEAESGVDR	NCBP3	Q53F19	NCBP3	HUM	Unmodified	337860	299040	308920	14651	0	11294	0	0	0
AEAPASPAPLSPLEVELDPEFEPQSRPR	FOXO3; FOXO3B	O43524; A0A2Z4	FOXO3	HUM	Acetyl (Protein N-t	469830	466410	599680	0	0	0	0	0	0
AEAPPLER	PRKRA; PRKRA; PR	O75569; A0A7Z	PRKRA	HUM	Unmodified	0	1035100	0	39965	50822	44680	0	0	0
AEAQQVEALPGPSLDQWHR	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4	HUM	Unmodified	1512100	0	1747900	0	0	0	0	0	0
AEASQLGHK	TLN1	Q9Y490	TLN1	HUM	Unmodified	484010	569130	584910	17343	28303	0	0	0	25459
AEASSGDHPTDTEMKEEQK	FKBP4	Q02790	FKBP4	HUM	Oxidation (M)	1491100	1760100	1196300	106370	107860	119660	0	0	0
AEASSGDHPTDTEMKEEQKSNTAGSQSQVETEA	FKBP4	Q02790	FKBP4	HUM	Oxidation (M)	2286600	0	4401000	0	0	0	0	0	0
AEDAVEAIR	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4	HUM	Unmodified	9459200	5806000	7602800	391980	421920	425110	0	0	0
AEDEVQR	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L	HUM	Unmodified	1729900	1703100	1822800	222960	274000	272280	0	0	0
AEDEWKAQVAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	0	1826500	889830	0	0	0	0	0	0
AEDGSVIDYELIDQDAR	ANXA2; ANXA2; AN	P07355; H0YN28	ANXA2	HUM	Unmodified	2075700	1759300	493720	239480	330650	78653	0	22533	57290
AEDKEWMPVTK	RPS2; RPS2; RPS2; I	P15880; E9PPT0	RS2	HUMAN	Oxidation (M)	659900	1924700	952060	0	0	0	0	0	0
AEDKPSTDLSAPVNGEATSQK	HDGFL2; HDGFL2; I	Q7Z4V5; A0A087	HDGR2	HUM	Deamidation (N)	2861200	1312800	837630	47813	0	0	0	0	0
AEDMETKIKNYK	COX6B1; COX6B1; I	P14854; K7EQD3	CX6B1	HUM	Acetyl (Protein N-t	156670	151940	235760	542730	550230	763110	8272.2	0	0
AEDNADTLALVFEAPNQEK	PCNA	P12004	PCNA	HUMA	Unmodified	4316500	3726500	4606000	0	0	0	0	0	29654
AEDNADTLALVFEAPNQEK	PCNA	P12004	PCNA	HUMA	Deamidation (N)	3699200	1979100	2835300	0	0	0	0	0	0
AEDSGEYHCVVHFVSAPK	NPTN; NPTN	Q9Y639; Q9UFM	NPTN	HUMA	Unmodified	1213100	1263600	1629600	161730	0	0	0	0	0
AEEDEILNR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUMA	Unmodified	6020400	6021000	6692000	126050	110620	120450	0	0	0
AEEDEILNR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUMA	Deamidation (N)	3210100	1649400	4488600	26778	0	41268	0	0	0
AEEDEILNRSPR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUMA	Deamidation (N)	4127700	2741000	2702900	0	58225	55044	0	0	0
AEEDEILNRSPR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUMA	Unmodified	4612900	11074000	5547800	95262	65928	75203	0	0	0
AEEEFNIEK	ATP6V1E2; ATP6V1	Q96A05; P36543	VATE2	HUM	Unmodified	1053500	762850	617940	0	0	20564	0	0	0
AEEETRMENSLPAK	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2	HUM	Oxidation (M);Metl	541400	0	0	0	0	0	0	0	0
AEEEWLKADEQLLRNR	N/A	N/A	N/A		Unmodified	2205200	546470	1936200	0	0	0	0	0	0
AEEILEK	RPL11; EMP3; EMP	P62913; P54852;	RL11	HUM	Unmodified	0	4581800	5018000	0	96472	170220	0	0	0
AEEITIPADVTPEK	RHOT2; RHOT2; RH	Q8IXI1; I3L2C6;	MIRO2	HUM	Unmodified	0	1099800	1041600	0	0	0	0	0	0
AEEIWQQSVIGDYLAR	UBTF; UBTF; UBTF	P17480; E9PLT2	UBF1	HUM	Unmodified	663270	903920	648130	0	0	0	0	0	0
AEEKYEVLENKMKNAEAER	SMC2	O95347	SMC2	HUM	Methyl (KR);2 Dea	909260	0	599370	0	0	0	0	0	0
AEELGLPILGVLR	ACAA1; ACAA1; AC	P09110; C9JDE9	THIK	HUM	Unmodified	394310	332670	735950	0	0	0	0	0	0
AEELHYPLGER	RCN2; RCN2; RCN2	Q14257; H0YL43	RCN2	HUM	Unmodified	438330	471630	417790	0	0	0	0	0	0
AEELLAEEK	DNM1L	O00429	DNM1L	HUM	Unmodified	1584800	0	1590100	166630	109550	112150	0	0	0
AEEVATFFAK	TOP1	P11387	TOP1	HUM	Unmodified	7973100	7282200	6919100	44343	144490	119260	0	0	0
AEEYEFLTPVEEAPK	ARHGDIA; ARHGDI	P52565; J3KTF8	GDIR1	HUM	Unmodified	6182200	7700100	7342300	331230	314500	316450	0	0	0
AEEYEFLTPVEEAPKGMLAR	ARHGDIA; ARHGDI	P52565; J3KRE2	GDIR1	HUM	Oxidation (M)	18647000	15778000	16563000	989510	891670	672020	368010	210270	275970
AEEYEFLTPVEEAPKGMLAR	ARHGDIA; ARHGDI	P52565; J3KRE2	GDIR1	HUM	Oxidation (M);Metl	7921000	5662400	5928600	0	0	0	0	39947	56513
AEFEDQDDEAR	BMS1	Q14692	BMS1	HUM	Unmodified	795270	573020	0	0	0	0	0	0	0
AEFGDFDIKTVLQEIK	PHF6; PHF6; PHF6	Q8IWS0; Q5JRC6	PHF6	HUM	Unmodified	225680	0	0	0	0	0	0	0	0
AEFGDFDIKTVLQEIKR	PHF6; PHF6; PHF6	Q8IWS0; Q5JRC6	PHF6	HUM	Unmodified	493900	507860	540100	0	0	0	0	0	0
AEFGPGPGAGSR	RNPEP; RNPEP; RN	Q9H4A4; A6NKB	AMPB	HUM	Unmodified	4174500	5171300	3855800	331720	0	438980	0	0	0
AEFQEEAK	DSP	P15924	DESP	HUM	Unmodified	682960	880340	804560	55708	0	0	0	0	0
AEFTSPPSLFK	FIP1L1; N/A	Q6UN15; A0A0B4	FIP1	HUM	Unmodified	1777500	1600700	1467700	120070	137160	118800	0	0	19558
AEFTVETR	FLNA; FLNA; FLNA;	P21333; A0A7Z	FLNA	HUM	Unmodified	6157600	4484000	5606200	955310	912570	1174600	151420	162080	154360
AEGDRVMVVLGPQTGR	GPKOW	Q92917	GPKOW	HUM	Oxidation (M)	2189900	2533900	2102100	138360	0	0	0	0	0
AEGDRVMVVLGPQTGR	GPKOW	Q92917	GPKOW	HUM	Unmodified	0	0	1427900	0	0	0	0	0	0
AEGDVAALNR	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4	HUM	Unmodified	719510	902000	1652500	281520	287520	323970	0	0	0
AEGERQPPPDSSEEAPPATQNFIIPK	PTPA; PTPA; PTPA;	Q15257; A6PVN5	PTPA	HUM	Acetyl (Protein N-t	2179200	2857100	3955800	824700	951320	948380	0	31651	60067
AEGERQPPPDSSEEAPPATQNFIIPK	PTPA; PTPA; PTPA;	Q15257; A6PVN5	PTPA	HUM	Acetyl (Protein N-t	3054500	1999200	1826100	90093	275050	287330	0	0	0
AEGFVDALHR	FUBP3; FUBP3	Q96I24; A0A494	FUBP3	HUM	Unmodified	583160	597940	578890	0	0	0	0	0	0
AEGGGGGGRPGAPAAGDGK	HNRNPU	Q00839	HNRPU	HUM	Unmodified	219110	162090	235280	32316	37829	0	0	0	0
AEGGGGGGRPGAPAAGDGKTEQK	HNRNPU	Q00839	HNRPU	HUM	Unmodified	2497800	2819200	2950500	67052	0	108360	0	0	0
AEGIPVEMVVIGDDSAFTVLKK	TKFC; TKFC; TKFC	Q3LXA3; H0YCY	TKFC	HUM	Oxidation (M)	1036600	806630	612640	0	0	0	0	0	0
AEGLGDGYR	HINT2	Q9BX68	HINT2	HUM	Unmodified	6688700	6249400	2779400	0	0	14967	0	0	0
AEGPEVDVNLPK	AHNAK	Q09666	AHNK	HUM	Unmodified	1895000	1309600	1692200	734710	904160	889740	39765	23553	29828
AEGPVAVVVNGHTEGPAPAR	ZNF598	Q86UK7	ZN598	HUM	Deamidation (N)	969290	1063300	1120400	59613	61054	61334	0	0	0
AEGTFPGK	COX6B1	P14854	CX6B1	HUM	Unmodified	1622700	1146100	1811000	6034.7	0	0	0	0	0
AEGTFPGKI	COX6B1	P14854	CX6B1	HUM	Unmodified	0	0	1552100	130620	137150	0	0	0	0
AEGVSTPLAGR	PML	P29590	PML	HUMA	Unmodified	2404300	1008800	0	437800	529970	692450	0	0	315890
AEGYAEGDLTLYHR	FTSJ3	Q8IY81	SPB1	HUM	Unmodified	1967900	1542600	1743600	0	74430	0	0	0	0
AEHDQLLLNYAK	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Unmodified	1362100	1259800	1498200	0	0	27704	0	0	0
AEHLELLAEMPMVGR	PPP1R16A; PPP1R1	Q96I34; A0A087	PP16A	HUM	Acetyl (Protein N-t	511410	488370	501170	0	0	0	0	0	0
AEIGIAMGSGTAVAK	ATP2A1; ATP2A2; A	O14983; P16615	AT2A1	HUM	Oxidation (M)	4434400	4669800	5616000	248820	294370	239520	0	0	0
AEIISLCK	SRRT; SRRT; SRRT	Q9BXP5; H7C1K	SRRT	HUM	Unmodified	553820	834050	579050	0	0	40564	0	0	0
AEIKEMGEMHRELNA	EPCAM; EPCAM	P16422; B5MCA4	EPCAM	HUM	2 Oxidation (M)	941710	1143700	1040500	116010	131000	97974	0	0	0
AEISDLDRQIEQLR	PPP4C; PPP4C; PPP	P60510; H3BV22	PP4C	HUMA	Acetyl (Protein N-t	1587900	1636100	3103300	0	0	0	0	0	0
AEISDLDRQIEQLRR	PPP4C; PPP4C; PPP	P60510; H3BV22	PP4C	HUMA	Acetyl (Protein N-t	6675400	7396500	5633200	0	0	0	23676	0	0
AEISFEDR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA	HUM	Unmodified	1360700	1332600	1565200	0	0	0	0	0	0
AEKALNEIEQQR	N/A	N/A	N/A		Deamidation (N)	0	1396100	1430100	0	0	0	0	0	0
AEKDEPGAWEETFK	GANAB; GANAB; G	Q14697; F5H6X6	GANAB	HUM	Unmodified	7080600	6078300	4999300	165360	173020	124030	0	0	0
AEKNGVKITLPVDFVTADKFDENAK	PGK1	P00558	PGK1	HUMA	Deamidation (N)	1375300	0	1283600	0	0	0	0	0	0
AEKTLGDFAAEYAK	PARP1; PARP1; PAR	P09874; A0A7Z	PARP1	HUM	Unmodified	2234600	1445700	1149100	60643	66345	68610	0	15635	0
AEKTLGDFAAEYAK	PARP1; PARP1; PAR	P09874; A0A7Z	PARP1	HUM	Methyl (KR)	914010	723760	909600	39622	25365	33429	0	0	0
AELATLQAR	CEP131; CEP131; CE	Q9UPN4; I3L4M5	CP131	HUM	Unmodified	1352100	635680	1129000	0	0	0	0	0	0
AELDDTPMR	SFPQ	P23246	SFPQ	HUMA	Oxidation (M)	5532300	6118600	5442900	18254	130980	43026	0	0	0
AELDEVNK	LMNB2	Q03252	LMNB2	HUM	Unmodified	0	1774000	1732900	148850	120080	149710	0	0	0
AELEEVTLDGKPLQALR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Acetyl (Protein N-t	8442700	5600200	6068800	0	0	0	0	0	0
AELEIQKDALEPGQR	APRT; APRT; APRT	P07741; H3BQB1	APT	HUMAN	Unmodified	0	615000	0	0	0	27375	0	0	0
AELGAGAPPAVVAR	MAP7D1	Q3KQU3	MA7D1	HUM	Unmodified	2394900	2723500	3376200	96873	110300	59037	0	0	0
AELGALPDDFIDSLEK	NLN; NLN	Q9BYT8; E9PCB6	NEUL	HUM	Unmodified	54332	42493	51163	0	0	0	0	0	0
AELGEYIR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	2180600	2596500	2383300	0	78020	89606	0	0	0
AELGIPLEEVPPEEINYLTR	IDI1	Q13907	IDI1	HUMAN	Unmodified	910050	0	727100	0	0	0	0	0	0
AELGLNEHHQNEVINYMR	LZTFL1	Q9NQ48	LZTL1	HUM	Acetyl (Protein N-t	1703100	460870	1138800	0	499260	265530	0	0	0
AELGLNEHHQNEVINYMR	LZTFL1	Q9NQ48	LZTL1	HUM	Acetyl (Protein N-t	679590	550230	104920	28330	21579	25383	0	0	0
AELGTDLLSQLSLEDQK	SMC3	Q9UQE7	SMC3	HUM	Unmodified	998220	0	705870	0	0	0	0	0	0
AELGTDLLSQLSLEDQKR	SMC3	Q9UQE7	SMC3	HUM	Unmodified	2654600	628960	1366900	0	0	0	0	0	0
AELIQKK	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Acetyl (Protein N-t	758010	591570	746220	0	0	0	0	0	0
AELIVQPELK	DSP	P15924	DESP	HUMA	Unmodified	13180000	10213000	9919400	425040	401950	357470	0	0	0
AELIVQPELKYGDGIQLTR	DSP	P15924	DESP	HUMA	Unmodified	965720	336330	1203600	0	0	0	0	0	0
AELMEISEDKTK	SSB; SSB; SSB; SSB	P05455; E9PFL9	LA	HUMAN	Oxidation (M)	736800	1124200	625540	0	0	0	0	0	0
AELMQALWRTLR	TRRAP; TRRAP; TR	Q9Y4A5; F2Z2U4	TRRAP	HUM	Oxidation (M)	3810100	0	4414600	254470	0	197290	0	0	21675
AELNEFLTR	RPS3; RPS3; RPS3; I	P23396; H0YF32	RS3	HUMAN	Deamidation (N)	2131700	1818100	1895500	36669	0	34621	0	0	0
AELNEFLTR	RPS3; RPS3; RPS3; I	P23396; H0YF32	RS3	HUMAN	Unmodified	5661900	6465700	7046200	55709	30092	89008	0	14214	0
AELQEVQITEEKPLLPGQTPEAAK	NDRG2; NDRG2; NI	Q9UN36; G3V5H9	NDRG2	HUM	Acetyl (Protein N-t	2381700	2030500	0	27567	0	0	0	0	0
AELQMLLEEEIPGGRR	ABI2; ABI2; ABI2; A	Q9NYB9; E7EW7	ABI2	HUMA	Acetyl (Protein N-t	3089600	1443300	1815900	0	0	0	0	0	0
AELQMLLEEEIPSGKR	ABI1; ABI1; ABI1	Q8IZP0; A0A0A0	ABI1	HUMA	Acetyl (Protein N-t	2195700	2052700	2521400	0	0	0	0	0	0
AELQMLLEEEIPSGKR	ABI1; ABI1; ABI1	Q8IZP0; A0A0A0	ABI1	HUMA	Acetyl (Protein N-t	46833	184200	0	0	0	0	0	0	0
AELRDDPIISTHLAK	PSMD11	O00231	PSD11	HUM	Unmodified	2488900	2734100	2552300	0	0	0	0	0	0
AELSEGQVR	TPM1; TPM1; TPM1	H0YL42; B7Z596	H0YL42	HUM	Unmodified	2413200	835770	2332700	309130	307000	325200	0	0	0
AELVGQLQR	LHPP; LHPP	Q9H008; Q5T1Z0	LHPP	HUM	Unmodified	2807800	2688200	2958700	163430	127100	143660	0	12176	0
AELVQGQSAPVGMKAEGFVDALHR	FUBP3; FUBP3	Q96I24; A0A494	FUBP3	HUM	Acetyl (Protein N-t	3768500	3356300	3293700	0	0	0	0	0	0
AEMDMVAWGVDLASVEQHINSHR	DSP	P15924	DESP	HUMA	2 Oxidation (M)	1321800	940080	1120200	0	0	0	0	0	0
AEMDMVAWGVDLASVEQHINSHR	DSP	P15924	DESP	HUMA	2 Oxidation (M);De	3561400	0	911850	0	0	0	0	0	0
AEMETLVR	DPYSL5; DPYSL5; D	Q9BPU6; E9PHT	DPYL5	HUM	Oxidation (M)	1481500	531600	0	20554	0	0	0	0	0
AEMEVLLASK	PLEC	Q15149	PLEC	HUM	Oxidation (M)	0	0	0	225870	0	0	0	0	0
AEMLLEEAKR	LAMB1; LAMB1; LA	P07942; A0A7Z	LAMB1	HUM	Oxidation (M)	528820	830230	446650	0	0	0	0	0	0
AEMTVFVR	HEBP2	Q9Y5Z4	HEBP2	HUM	Oxidation (M)	3025300	3324400	2973400	384370	381850	340940	0	11873	0
AENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVK	DDX39B; DDX39B; I	Q13838; F6TRA5	DX39B	HUM	Acetyl (Protein N-t	1208800	1043900	753100	0	0	0	0	0	0
AENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVK	DDX39B; DDX39B; I	Q13838; F6TRA5	DX39B	HUM	Acetyl (Protein N-t	3277100	1788700	2307200	0	0	0	0	0	0
AENFFILR	ARPC4; ARPC4-TTL	P59998; A0A0A6	ARPC4	HUM	Unmodified	7149500	5724600	6544100	312460	287660	292090	18814	41747	13261
AENFFILR	ARPC4; ARPC4-TTL	P59998; A0A0A6	ARPC4	HUM	Deamidation (N)	4956800	3022100	2960400	72235	83902	58447	11646	9639.1	0
AENGDNEKMAALEAK	SSB; SSB; SSB	P05455; E9PFL9	LA	HUMAN	Acetyl (Protein N-t	578840	596280	473790	0	33030	44735	0	0	0
AENGDNEKMAALEAK	SSB; SSB; SSB	P05455; E9PFL9	LA	HUMAN	Acetyl (Protein N-t	1190200	696520	670580	0	88931	0	0	0	0

AENGKLVINGNPITIFQER	GAPDH	P04406	G3P_HUMAN	2 Deamidation (N)	49613000	46378000	46878000	0	0	8253.5	0	0	0
AENGKLVINGNPITIFQER	GAPDH	P04406	G3P_HUMAN	Methyl (KR);2 Dea	7831600	6893000	6468900	0	0	0	0	0	0
AENGKLVINGNPITIFQERDPSK	GAPDH	P04406	G3P_HUMAN	2 Deamidation (N)	72727000	58221000	68270000	18573	0	0	0	0	0
AENGKLVINGNPITIFQERDPSK	GAPDH	P04406	G3P_HUMAN	Methyl (KR);2 Dea	1805000	3215000	3666800	0	0	0	0	0	0
AENGKLVINGNPITIFQERDPSKIK	GAPDH	P04406	G3P_HUMAN	Methyl (KR);2 Dea	1511900	0	0	0	0	0	0	0	0
AENGKLVINGNPITIFQERDPSKIK	GAPDH	P04406	G3P_HUMAN	2 Deamidation (N)	34771000	23269000	25453000	0	0	0	0	0	0
AENLLDGPPNPKR	CREBBP	Q92793	CBP_HUMAN	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
AENLQLLTENELHR	HEXIM1	O94992	HEXI1_HUM	Unmodified	0	1430300	849030	59257	29317	32996	0	0	0
AENNENISKNVDVR	SOCS4	Q8WXH5	SOCS4_HUM	Acetyl (Protein N-t	0	55252	77265	0	0	0	0	0	0
AENNSEVGASGYGVPGPTWDR	DHX9	Q08211	DHX9_HUMA	2 Deamidation (N)	2315000	2302200	2072200	53815	0	69292	0	0	0
AENNSEVGASGYGVPGPTWDR	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	2720700	3207200	2846200	74066	102530	34088	0	0	0
AENPGGPPVLVVPYPILASGETAK	ZNF362	Q5T0B9	ZN362_HUM	Unmodified	247350	276530	328880	0	0	0	0	0	0
AENPSLENHR	KPNA3	O00505	IMA4_HUMA	Acetyl (Protein N-t	492790	548080	380590	0	0	0	0	0	0
AENPYLFLR	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AENQKTKEKCDK	SHTN1	A0MZ66	SHOT1_HUM	2 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
AENQVLAMR	BCAP31; BCAP31	P51572; A0A2R8	BAP31_HUM	Oxidation (M)	1849600	2138100	1754000	0	0	0	0	0	0
AENQVLAMRK	BCAP31; BCAP31	P51572; A0A2R8	BAP31_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
AENSQLTER	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Deamidation (N)	3478600	3215100	3573700	250320	70494	295770	10290	96136	119540
AENSQLTER	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	0	0	2944000	0	0	0	0	0	12205
AENVVEPGPPSAKRPK	EP300; EP300	Q09472; A0A669	EP300_HUM	Acetyl (Protein N-t	0	0	0	194830	173660	214070	60485	44672	45550
AENYDIPSADR	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Unmodified	1060900	1047200	890050	0	0	0	0	0	0
AEPAKIEAFRASLSK	PGK1	P00558	PGK1_HUMA	Unmodified	0	0	549550	0	0	0	0	0	0
AEPATGGKGDPLSSEK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	602050	947060	826360	0	0	0	0	0	0
AEPDYIEDDNPELIRPQK	FAM107B; FAM107B	Q9H098; C9JP05;	F107B_HUM	Acetyl (Protein N-t	1684400	1323300	0	0	69782	34360	0	0	0
AEPEDHYFLLTEPPLNTPENR	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3_HUMA	Unmodified	6249800	4681300	6120300	40585	0	21392	0	0	0
AEPEDHYFLLTEPPLNTPENR	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3_HUMA	Deamidation (N)	3200200	1832300	1494600	0	0	0	0	0	0
AEPIDIQTWILGYR	LPGAT1	Q92604	LGAT1_HUM	Unmodified	459060	293610	483360	0	0	0	0	0	0
AEPLAVGKEDPVSK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	1525500	1386500	1175700	0	8073.1	0	0	0	0
AEPLTAPPTNGLPHTQDR	KIAA1522	Q9P206	K1522_HUM	Deamidation (N)	0	276420	0	67575	55497	84795	0	0	0
AEPPKAPEQEQAAPGPAAGGEAPK	BASP1	P80723	BASP1_HUM	Unmodified	3839100	3191600	3648500	1109700	1363900	1773500	39351	0	0
AEPPQAMNALMR	ILF3	Q12906	ILF3_HUMA	2 Oxidation (M);De	635760	627600	928460	0	0	0	0	0	0
AEPPQAMNALMR	ILF3	Q12906	ILF3_HUMA	2 Oxidation (M)	2199400	3388300	3096500	33500	67018	0	0	0	0
AEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGTK	RTN3; RTN3; RTN3;	O95197; B7Z4M1	RTN3_HUMA	Acetyl (Protein N-t	3131400	2191300	2420500	0	263240	0	140580	109570	105200
AEPSGAETRPPIR	UBQLN4	Q9NRR5	UBQL4_HUM	Acetyl (Protein N-t	4062600	4275800	4311400	0	0	0	0	0	0
AEPVEVVAPR	PARP1; PARP1	P09874; A0A7Z7	PARP1_HUM	Unmodified	29204000	28801000	29068000	1135100	913460	973340	19692	17612	0
AEPVSSTEASSLGQK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	524800	546330	619490	0	0	0	0	0	0
AEPVSSTEASSLGQKDLEAAGAER	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	1007300	1027800	846400	0	0	0	0	0	0
AEPYCSVLPGFTFIQHLPLSER	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	1886100	2039900	2732100	0	0	0	0	0	0
AEQDVENDLLDYDEEEEPQAPQESTPAPPKKDIK	DDX39A; DDX39A;	O00148; K7EQN7	DX39A_HUM	Acetyl (Protein N-t	1866100	1879200	3174100	0	0	0	0	0	0
AEQDVENDLLDYDEEEEPQAPQESTPAPPKKDIK	DDX39A; DDX39A;	O00148; K7EQN7	DX39A_HUM	Acetyl (Protein N-t	3184300	1831300	2422000	0	0	0	0	0	0
AEQEEEFISNTLFK	CCDC6	Q16204	CCDC6_HUM	Unmodified	1856500	1745000	1957900	0	0	0	0	0	0
AEQEPTAEQLAQIAAENEEDEHSVNYKPPAQK	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Acetyl (Protein N-t	4036000	4875900	2133300	0	0	0	0	0	0
AEQEPTAEQLAQIAAENEEDEHSVNYKPPAQK	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Acetyl (Protein N-t	12712000	15144000	0	0	345000	155550	61924	0	0
AEQEPTAEQLAQIAAENEEDEHSVNYKPPAQK	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Acetyl (Protein N-t	8481600	8836900	0	155130	138970	0	0	0	0
AEQINQAAGEASAVLAK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_HUM	Unmodified	2024900	1198400	1458100	0	0	0	0	0	0
AEQLASLEAAQR	TJP3	O95049	ZO3_HUMAN	Unmodified	0	259760	0	83838	113550	124320	0	0	0
AEQLGAEGNVDESQK	LUC7L; LUC7L; LUC	Q9NQ29; A8MYV	LUC7L_HUM	Unmodified	673330	642020	0	0	0	0	0	0	0
AEQQQREEAGGEAAAAAAAERGEMK	ARID1A	O14497	ARI1A_HUM	Oxidation (M)	0	3115200	4084800	63676	0	0	0	0	0
AEQVIFVR	NECTIN2; NECTIN2	Q92692; K7EKE8	NECT2_HUM	Unmodified	734560	738060	944520	93755	124300	122950	0	0	0
AERDSALETLQGQLEEKAQELGHSQSALASAQR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	4870100	3392500	3162900	0	0	0	0	0	0
AEREVESGPR	ZMYM4	Q5VZL5	ZMYM4_HUM	Acetyl (Protein N-t	910260	850840	1010600	391640	0	592680	0	0	0
AERGELDLTGAK	GTF2F2	P13984	T2FB_HUMA	Acetyl (Protein N-t	2079600	2209500	2684500	97535	92181	87268	0	0	0
AERPEDLNLPNAVITR	POLE3	Q9NRF9	DPOE3_HUM	Acetyl (Protein N-t	751970	0	0	14125	0	0	0	0	0
AERPEDLNLPNAVITR	POLE3	Q9NRF9	DPOE3_HUM	Acetyl (Protein N-t	6464100	6033500	5398100	95671	0	0	13461	0	0
AERPGLQNMELAPVQR	LLGL2; LLGL2	Q6P1M3; J3QRV5	L2GL2_HUM	Oxidation (M)	863860	816310	709890	67485	63980	45270	0	0	0
AERQEEQR	GDAP1; GDAP1; GD	Q8TB36; E5RGI2	GDAP1_HUM	Acetyl (Protein N-t	3557900	2127700	4384300	172540	170780	196600	0	0	0
AERQHQLYVGVLGSK	DDAH1	O94760	DDAH1_HUM	Unmodified	573150	507820	495790	35723	42706	21532	0	0	0
AESAPLPVSADDTPEVLNR	CDS2	O95674	CDS2_HUMA	Unmodified	884620	923570	2138900	119270	143420	26937	0	0	0
AESDGSLLLESK	PPP4R3A; PPP4R3B;	Q6NN85; Q5MIZ7;	P4R3A_HUM	Unmodified	1226300	0	861640	34512	0	0	0	0	0
AESEEGPDVLR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	Unmodified	883080	0	0	0	0	0	0	0	0
AESEQEAYLR	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH_HUM	Unmodified	1188400	897290	922630	0	0	0	0	0	0
AESEQEAYLRED	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH_HUM	Unmodified	1428200	1859800	1487700	103250	107180	102250	0	0	0
AESFMFR	MTAP; MTAP; MTA	Q13126; J3QSB7;	MTAP_HUM	Oxidation (M)	3605000	4094400	4644900	0	141010	0	0	0	0
AESGPDLR	DSP	P15924	DESP_HUMA	Unmodified	7660500	8372900	12440000	370310	394590	404590	0	0	0
AESGPDLRVEVTSGGGGTSR	DSP	P15924	DESP_HUMA	Unmodified	12968000	11814000	13768000	1384700	1150100	1259000	125210	122070	85299
AESLRSPR	RPAIN	Q86UA6	RIP_HUMAN	Acetyl (Protein N-t	1188200	886980	1776500	0	53930	0	0	0	0
AESSDKLYR	PARP1; PARP1; PAR	P09874; A0A7Z7	PARP1_HUM	Acetyl (Protein N-t	11404000	12115000	10382000	1973500	167180	342910	202880	0	84020
AESSDKLYRVEYAK	PARP1; PARP1; PAR	P09874; A0A7Z7	PARP1_HUM	Acetyl (Protein N-t	29574000	26425000	27973000	3920100	3961300	3458200	643760	680500	591750
AESSDKLYRVEYAK	PARP1; PARP1; PAR	P09874; A0A7Z7	PARP1_HUM	Acetyl (Protein N-t	1410200	1343000	1435800	0	196580	277420	78852	60682	67013
AESTPEIAEQR	GPS1; GPS1	Q13098; C9JFE4	CSN1_HUMA	Unmodified	551640	658630	633080	0	0	0	0	0	0
AETLEFNDVYQEVKGSMNDGRLR	SSRP1	Q08945	SSRP1_HUM	Acetyl (Protein N-t	1544200	961930	1160300	0	0	0	0	0	0
AETLMTVTDPVHDIAFAPNLGR	SEH1L; SEH1L	Q96EE3; K7ELV2	SEH1_HUMA	Oxidation (M)	2654100	0	439620	0	0	0	0	0	0
AETLSGLGDSGAAGAAALSSASSETGTRR	SAFB; SAFB	Q15424; K7ES42	SAFB1_HUM	Acetyl (Protein N-t	2451600	1457900	1718100	0	0	0	0	0	0
AETNSRVSGVDGYETEGIR	MCM6	Q14566	MCM6_HUM	Deamidation (N)	4090400	3846500	4231800	0	0	0	0	0	0
AETPTESVSEPEVATKQELQEEEEQTKPPR	LIG1; LIG1; LIG1; LI	P18858; B4E135;	DNLI1_HUM	Unmodified	2050600	1656700	3266800	0	0	0	0	0	0
AEVDELR	RNF40; RNF40	O75150; H3BP71	BRE1B_HUM	Unmodified	346280	1481900	808730	0	85598	44271	0	0	0
AEVEETLKR	DYNLRB2; DYNLRE	Q8TF09; Q9NP97	DLRB2_HUM	Acetyl (Protein N-t	21632000	20362000	18490000	0	0	0	0	0	0
AEVEETLKR	DYNLRB2; DYNLRE	Q8TF09; Q9NP97	DLRB2_HUM	Acetyl (Protein N-t	731390	848680	865880	0	0	0	0	0	0
AEVEETLKRLQSQK	DYNLRB1; DYNLRE	Q9NP97; B1AKR4	DLRB1_HUM	Acetyl (Protein N-t	1622300	3794200	2061200	0	0	0	0	0	9610.5
AEVEGKDLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	3918500	4500400	4239100	274610	305260	379410	0	0	0
AEVGEKTEER	TMPO; TMPO; TMPI	P42167; G5E972;	LAP2B_HUM	Unmodified	3298900	6567100	5007700	113340	103460	0	14591	0	0
AEVIAKNNSFVNEIISR	MSH2	P43246	MSH2_HUMA	2 Deamidation (N)	644880	0	547950	0	0	0	0	0	0
AEVIMNYHVGETVLSLQK	SF3B3	Q15393	SF3B3_HUM	Oxidation (M)	2768100	1824000	741050	0	0	0	0	0	0
AEVIMNYHVGETVLSLQK	SF3B3	Q15393	SF3B3_HUM	Oxidation (M);Deai	1016800	869220	786220	11889	0	0	0	0	0
AEVLQSTQR	PRRC2C; PRRC2C; I	Q9Y520; H7C5N8	PRC2C_HUM	Unmodified	0	0	841700	33119	0	0	0	0	7874.8
AEVQKLQMEAPHIIVGTPGR	EIF4A1; EIF4A1; EIF	P60842; J3KTB5;	IF4A1_HUMA	Oxidation (M)	4194500	5531400	4391900	12934	21134	0	0	0	0
AEVQKLQMEAPHIIVGTPGR	EIF4A1; EIF4A1; EIF	P60842; J3KTB5;	IF4A1_HUMA	Oxidation (M);Metl	728020	0	702330	0	0	0	0	0	0
AEVRGAEIEYAMAYSK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Oxidation (M)	0	0	0	51926	0	106330	0	0	0
AEVSPMYGVQK	GHITM	Q9H3K2	GHITM_HUM	Oxidation (M)	420650	0	515440	0	0	0	0	0	0
AEVVETTQVYTEEETRR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	3232000	3757800	2515500	273110	324480	321680	0	0	0
AEWQVYKEEISR	TFAM; TFAM	Q00059; H7BYN3	TFAM_HUM	Unmodified	2040300	1952200	1788200	0	0	0	0	0	0
AEYEGDGIPTVFVAVAGR	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Unmodified	1581100	2107900	1692700	17325	0	0	0	0	0
AEYGRLGLGEGAEEK	RCC1; RCC1	P18754; C9JW69	RCC1_HUMA	Unmodified	610220	456140	542180	0	0	168670	0	0	0
AFAAGADIK	ECHS1	P30084	ECHM_HUMA	Unmodified	4626200	4506600	4418200	178270	80282	62405	142980	103880	125360
AFAALPSSRPVYDIQSPDFAEELR	SCRIB	A0A0G2JPP5	A0A0G2JPP5_	Unmodified	2467800	1420400	2062900	0	0	0	0	0	0
AFAAQEDLEK	RDX; RDX; RDX	P35241; A0A2R8	RADI_HUMA	Unmodified	1116700	789030	614630	76600	0	78671	0	0	0
AFAAVPTSHPPEDAPAQPPTPGPAASPEQLSFR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	4797400	4411800	5434900	37791	0	0	0	0	0
AFADALEVIPMALSENSGMNPIQTMTEVR	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE_HUMA	3 Oxidation (M);De	5029400	699860	4817300	0	0	0	0	0	0
AFADALEVIPMALSENSGMNPIQTMTEVR	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE_HUMA	3 Oxidation (M)	1535400	563400	1191100	0	0	0	0	0	0
AFADAMEVIPSTLAENAGLNPISTVTELR	CCT4	P50991	TCPD_HUMA	Oxidation (M)	854710	0	350680	0	0	0	0	0	0
AFAHITGGGLLENIPR	GART	P22102	PUR2_HUMA	Unmodified	7546300	5686700	4724400	0	0	0	0	0	12879
AFALEVIK	PPA2	Q9H2U2	IPYR2_HUM	Unmodified	1129800	1035900	1307100	183470	167080	159770	8227.8	0	0
AFASTGLESGASGR	AHDC1	Q5TGY3	AHDC1_HUM	Unmodified	0	1483100	0	0	0	0	0	0	0
AFAVQSAVR	BMS1	Q14692	BMS1_HUMA	Unmodified	2529700	2083500	2084600	0	0	0	0	0	0
AFDITYVR	LAMC1	P11047	LAMC1_HUM	Unmodified	180000	1397600	1287000	64721	0	40953	0	0	16709
AFDLFNPNFK	MRPS23; MRPS23	Q9Y3D9; J3QLR8	RT23_HUMA	Unmodified	1069600	1148900	1122900	0	0	0	0	0	0
AFDLIVDRPVTLVR	NDUFB10; NDUFB1	O96000; H3BPJ9;	NDUBA_HUM	Unmodified	1475800	1193000	1463700	0	0	0	0	0	0
AFDQDGDGHITVDELR	CALML5	Q9NZT1	CALL5_HUM	Unmodified	2315300	1918000	1847700	0	0	0	0	0	0
AFDQDGDGHITVDELRR	CALML5	Q9NZT1	CALL5_HUM	Unmodified	10494000	7854900	15235000	0	0	0	0	0	0
AFDSAVAK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	688790	1011000	669850	0	27337	0	0	0	0
AFDVPDAEAR	CLCC1; CLCC1; CLC	Q96S66; A0A6Q8	CLCC1_HUM	Unmodified	0	684290	0	104200	0	139770	0	0	0
AFEDDDITHVEGSVDPIR	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	Unmodified	2984700	2315700	2830100	0	0	0	0	0	0
AFEDEKK	PA2G4	Q9UQ80	PA2G4_HUM	Unmodified	816800	0	1081600	47332	54486	43771	0	0	0
AFEDEMSGR	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	3478600	3911900	3791500	507110	557150	526970	0	0	0
AFEEAEK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	2178400	4203500	3898500	30157	0	31668	0	0	0
AFEEAEKNAPAIIFDELDAIAPKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	4924300	3239500	4220400	0	0	0	0	0	0
AFEEAEKNAPAIIFDELDAIAPKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Methyl (KR)	257880	138460	232070	0	0	0	0	0	0
AFEEDQVAGR	RRP9	O43818	U3IP2_HUMA	Unmodified	0	0	0	161840	177260	224210	0	0	0
AFEGSPAR	CHD6; CHD6	Q8TD26; H7C294	CHD6_HUMA	Unmodified	723580	0	0	0	33671	14713	0	0	0
AFEPATGR	ALDH9A1	P49189	AL9A1_HUM	Unmodified	6901100	6017600	6916700	571110	714780	626880	27434	0	0
AFEPYLEILEVYSTK	SGPL1	O95470	SGPL1_HUM	Unmodified	164850	43379	80800	0	0	0	0	0	0
AFEVIATER	CBFA2T2; CBFA2T2	O43439; Q68DC6	MTG8R_HUM	Unmodified	680340	547330	454670	0	0	0	0	0	0
AFFAGSQR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	31677000	33099000	31833000	1844500	1541800	1821200	33417	118490	32300
AFFESHPAPSAER	NPEPPS; NPEPPS; N	P55786; E9PLK3;	PSA_HUMAN	Unmodified	10198000	8805000	5968900	517540	362170	302840	57021	0	31685
AFFPCFDTPAVK	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB_HUM	Unmodified	1128100	980020	1113000	48797	47229	38159	0	0	0
AFFSEVER	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4_HUM	Unmodified	15615000	11756000	17565000	416050	385730	406050	0	33586	0
AFGFMTR	PCBD1	P61457	PHS_HUMAN	Oxidation (M)	9080500	9624000	10066000	135210	123960	193870	0	0	0
AFGFSHLEALLDDSK	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1_HUM	Unmodified	728840	816650	639340	0	0	0	0	0	0
AFGFSHLEALLDDSKELQR	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1_HUM	Unmodified	16742000	13557000	16077000	0	0	0	0	0	0
AFGGQSLK	SDHA; SDHA; N/A	P31040; D6RFM5	SDHA_HUM	Unmodified	5031300	389790	5564600	415670	407510	438890	0	0	23148
AFGGVIFQK	ENTPD2	Q9Y5L3	ENTP2_HUM	Unmodified	1606000	1855500	1909800	0	15555	23562	0	0	0
AFGPGLQGGSAGSPAR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	14541000	16071000	13479000	1308200	1407200	1524000	3100500	2673500	2865100

AFGYYGPLR	SRSF3; SRSF3	P84103; A0A087?	SRSF3	HUM;	Unmodified	176930000	142680000	145450000	6542700	6167700	7907800	416510	437120	348350
AFHGLAGGTDVPFSEVVK	XYLB; XYLB	O75191; A0A3B3	XYLB	HUM;	Unmodified	1176300	1914100	1024200	0	0	0	0	0	0
AFHNEAQVNPER	TCP1; TCP1; TCP1	P17987; F5H282;	TCP A	HUMA	Deamidation (N)	3508400	2662200	3648200	58395	0	0	0	0	0
AFHPDLEFVGK	FADS2	O95864	FADS2	HUM	Unmodified	1002900	678060	585710	0	0	0	0	0	0
AFHPFIAGPYNR	HDLBP; HDLBP; HD	O00341; A0A024	VIGLN	HUM	Unmodified	4364700	3376600	3018300	137900	62723	79823	0	0	0
AFIDQGKLIPDDVMTR	AK3	Q9UJ7	KAD3	HUM	Oxidation (M)	1155600	1103800	1185800	0	0	0	0	0	0
AFIGFEGVK	DSP	P15924	DESP	HUM	Unmodified	0	6723400	0	220850	0	152760	0	0	0
AFIITGQTYTR	ADSL; ADSL; ADSL	P30566; A0A7P0	PUR8	HUM	Unmodified	1244500	1208500	1074200	31712	24257	35734	0	0	0
AFITNIPFDVK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	10651000	12168000	9536300	42080	0	39067	27447	25756	30582
AFITNIPFDVKWQSLK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	0	210960	250150	0	0	0	0	0	0
AFITNIPFDVKWQSLKDLVK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	773060	333090	0	0	0	0	0	0	0
AFKDEYMVNLVR	MRPL39; MRPL39	Q9NYK5; C9JG87	RM39	HUMA	Oxidation (M)	3181100	3259200	2988900	139860	195970	0	0	0	14089
AFKDIDIEDLEELDPDFIMAK	EIF3A	Q14152	EIF3A	HUMA	Oxidation (M)	577850	97004	345650	0	0	0	0	0	0
AFKDTGK	RPS20; RPS20; RPS2	P60866; E5RIP1;	RS20	HUMA	Acetyl (Protein N-t	1487700	1772800	0	0	0	0	0	0	0
AFKDTGKTPVEPEVAIHR	RPS20; RPS20; RPS2	P60866; E5RIP1;	RS20	HUMA	Acetyl (Protein N-t	37965000	24047000	38397000	1701800	1786900	1829900	187110	193070	145730
AFKDTGKTPVEPEVAIHR	RPS20; RPS20; RPS2	P60866; E5RIP1;	RS20	HUMA	Acetyl (Protein N-t	3963700	961310	2388600	51821	0	0	0	0	26515
AFKELPVNAQNYVR	ADSS2	P30520	PURA2	HUM	Unmodified	1968500	2128800	2260400	115820	118740	114620	0	0	0
AFKELPVNAQNYVR	ADSS2	P30520	PURA2	HUM	Deamidation (N)	2102300	2662800	754180	43449	113010	103650	0	18510	0
AFLDALQNQAEASSK	TRAP1	Q12931	TRAP1	HUM	Unmodified	790780	906430	832950	0	0	0	0	0	0
AFLDFHALPYQVVEVNPVR	PTGES2; PTGES2; P	Q9H7Z7; A0A7I2	PGES2	HUM	Unmodified	1441500	1067100	39335	0	0	0	0	0	0
AFLDQVFQLKPGLSLR	C9orf72; C9orf72; C9	Q96LT7; A0A5F9	CI072	HUM	Unmodified	94858	34522	67643	0	0	0	0	0	0
AFLDSLPDVK	OGT	O15294	OGT1	HUM	Unmodified	658840	563100	447720	0	0	0	0	0	0
AFLEENNLDYIIR	PPP5C; PPP5C; PPP	P53041; A8MU39	PPP5	HUMA	Deamidation (N)	5927500	3410200	3283100	0	0	0	0	0	0
AFLGQVLVR	MPG; MPG	P29372; A2IDA3	3MG	HUMA	Unmodified	8432300	8247700	8242800	39929	0	0	0	0	0
AFLIEEQK	RPL34	P49207	RL34	HUM	Unmodified	1606700	1697700	1909800	0	37754	25073	0	0	0
AFLLDPDRCVVQR	HGH1	Q9BTY7	HGH1	HUM	Unmodified	782700	1058700	926710	0	0	0	0	0	0
AFLNAIMR	CHD4; CHD5; CHD4	Q14839; Q8TDI0;	CHD4	HUMA	Oxidation (M)	1112100	1048000	819210	0	0	0	0	0	0
AFLSDMIK	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUMA	Oxidation (M)	1440900	1598900	1606700	76516	41658	135510	0	0	0
AFLSPPTLLEGPLR	MIA2; MIA2	Q96PC5; G3V599	MIA2	HUMA	Unmodified	4438100	3607600	2941000	0	0	0	0	0	0
AFLTGVDPILGHQLSAR	INTS5	Q6P9B9	INT5	HUMA	Unmodified	431080	570550	418670	0	0	0	0	0	0
AFLTLAEDILR	RAB10	P61026	RAB10	HUM	Unmodified	4135800	1828900	2422600	0	0	0	0	0	0
AFLVGMYGQMDPSAQISEALR	INTS1	Q8N201	INT1	HUMA	2 Oxidation (M)	1696800	87009	0	0	0	0	0	0	0
AFMGTPVQK	MKI67	P46013	KI67	HUMA	Oxidation (M)	2327700	2365600	3116800	0	0	0	0	0	0
AFMGTPVQKLDLPGNLPGSK	MKI67	P46013	KI67	HUMA	Oxidation (M)	380270	328430	335670	0	0	0	0	0	0
AFMTADLPNELIELLEK	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Oxidation (M);Deai	233910	69378	156900	0	0	0	0	0	0
AFMVTDEDIRKQEELVQQVR	MBD3; MBD3	O95983; K7EIE8	MBD3	HUM;	Oxidation (M)	1648600	1346700	1890100	0	0	0	0	0	0
AFNLVKDSATGLSK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Unmodified	774030	830180	826640	0	0	6980.6	0	0	0
AFPALTSLDLSDNPGLGER	CD14; CD14	P08571; D6RFL4	CD14	HUMA	Unmodified	1517200	2136900	0	0	0	0	0	0	0
AFPAQTASGFK	BAIAP2; BAIAP2; B	Q9UQB8; I3L4C2	BAIP2	HUM;	Unmodified	1440500	1218100	1430900	0	0	0	0	0	0
AFPAWADTSVLSR	ALDH6A1	Q02252	MMSA	HUM	Unmodified	1648700	1953200	1961100	83912	58028	47869	0	0	0
AFPHLQQPSFLLASLK	SMPD4; SMPD4; SM	Q9NXE4; A0A7P	NSMA3	HUM	Acetyl (Protein N-t	577250	270640	547110	0	0	0	0	0	0
AFPLAEWQPSDVDQR	METTL26; METTL2	Q96S19; H3BQ55	MTL26	HUM	Unmodified	300920	263670	351630	24510	0	31333	0	0	0
AFPMPGFDEH	SHMT2	P34897	GLYM	HUM;	Oxidation (M)	2694600	2520100	2658600	66278	81695	76216	0	0	0
AFPNKQGYVLSSIEGR	BUB3; BUB3	O43684; J3QT28	BUB3	HUMA	Unmodified	1971300	1372800	1520400	75673	65853	103490	0	0	0
AFPNKQGYVLSSIEGR	BUB3; BUB3	O43684; J3QT28	BUB3	HUMA	Deamidation (N)	1350900	984090	996050	29234	21005	0	0	0	0
AFPNPYADYNK	LANCL1; LANCL1; I	O43813; E9PHS0;	LANC1	HUM	Unmodified	10402000	10020000	10463000	182750	208010	256510	0	23611	0
AFQEGIAK	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	2338900	3145900	2771600	0	0	0	0	0	0
AFQGLLDTYSVWR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB	HUMA	Unmodified	464920	354490	308380	0	0	0	0	0	0
AFQNVFAPR	GNS; GNS; GNS; GN	P15586; H7C3P4;	GNS	HUMA	Unmodified	2718800	2109500	1618300	119440	88157	110760	10030	0	0
AFQPFFVELTMPYSVIR	PZP; A2M	P20742; P01023	PZP	HUMA	Oxidation (M)	260790	188930	253160	0	0	0	0	0	0
AFQYVETHGEVCPANWTPDSPTIKPSPAASK	PRDX3	P30048	PRDX3	HUM	Deamidation (N)	1629600	980800	0	0	0	0	0	0	0
AFQYVETHGEVCPANWTPDSPTIKPSPAASK	PRDX3	P30048	PRDX3	HUM	Unmodified	11515000	7019800	7108900	0	0	0	0	0	0
AFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQK	PRDX3	P30048	PRDX3	HUM	Unmodified	5971700	5940600	2428600	0	0	0	0	0	0
AFSAVDTDGNGTINAQELGAALK	CALML5	Q9NZT1	CALL5	HUM	Deamidation (N)	2593100	0	1512700	0	0	0	0	0	0
AFSAVDTDGNGTINAQELGAALK	CALML5	Q9NZT1	CALL5	HUM	2 Deamidation (N)	1114000	806030	1262000	0	0	0	0	0	0
AFSDPFVEAEK	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74	HUM	Unmodified	2928800	3182100	3101300	129750	99467	128720	0	0	0
AFSGYLGTDQSK	ESD; ESD; ESD; ESD	P10768; X6RA14;	ESTD	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
AFSIAQDALHIPR	CLMN	Q96JQ2	CLMN	HUM	Unmodified	830580	756270	667100	0	0	0	0	0	0
AFSIDIIR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	2261700	1067600	1147600	0	0	11682	0	0	0
AFSMDEPVAAK	GPRC5C; GPRC5C;	Q9NQ84; A8MXZ	GPC5C	HUM	Oxidation (M)	0	1123300	1320600	0	0	0	0	0	0
AFSSNPVVR	NCBP3	Q53F19	NCBP3	HUM	Unmodified	612390	0	590200	61775	0	0	0	0	0
AFSVYGPLR	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Unmodified	54163000	47526000	48957000	2890700	2120300	2227100	116290	143860	128960
AFTELQAK	PFDN1; PFDN1	O60925; E5RGS4	PFD1	HUMA	Unmodified	1905400	1927300	1778700	35758	0	0	0	0	0
AFTGEGQK	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K6	NSF1C	HUM	Unmodified	3738500	3376600	4355500	230920	255130	179040	0	0	0
AFTGREFDELNPSAQR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Unmodified	9810900	9081700	9137800	463840	383480	384790	55277	51607	52879
AFTHTAQYDEAISDYFR	ATIC; ATIC	P31939; C9JLK0	PUR9	HUMA	Unmodified	8286600	7815300	0	0	0	0	0	0	0
AFTHTAQYDEAISDYFRK	ATIC; ATIC	P31939; C9JLK0	PUR9	HUMA	Unmodified	6746000	5602900	1558900	0	0	0	0	0	0
AFTMDCITLEGDQVSHR	SMC3	Q9UQE7	SMC3	HUMA	Oxidation (M)	1716700	1313400	1719100	60474	185600	0	0	0	0
AFVAIGDYNGHVGLGVK	RPS2; RPS2; RPS2; F	P15880; E9PPT0;	RS2	HUMA	Deamidation (N)	352690	340240	504630	0	0	0	0	0	0
AFVDFLSDEIKEER	C1QBP	Q07021	C1QBP	HUM	Unmodified	7930700	6138800	7322400	0	0	0	0	0	0
AFVELTK	PGM3; PGM3; PGM	O95394; J3KN95;	AGM1	HUM	Unmodified	1493700	496290	818490	0	45635	65010	0	0	0
AFVHWYVGEGMEEGEFSEAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Oxidation (M)	49682000	37142000	34171000	22810	0	15210	0	0	0
AFVPAILFK	UPF2	Q9HAU5	RENT2	HUM	Unmodified	280450	445460	238900	0	0	0	0	0	0
AFVPPLAEDLLAR	ARAP1; ARAP1; AR	Q96P48; F8WBT0	ARAP1	HUM	Unmodified	359530	209510	267140	0	0	0	0	0	0
AFVPPLAEDLLARDFER	ARAP1; ARAP1; AR	Q96P48; F8WBT0	ARAP1	HUM	Unmodified	271180	217870	524730	0	0	0	0	0	0
AFVPQLR	SMARCA4; SMARC;	P51532; A0A2R8	SMCA4	HUM	Unmodified	1360500	1160100	994380	0	51644	30258	0	0	0
AFVRPSGTEDVVR	PGM3; PGM3; PGM	O95394; J3KN95;	AGM1	HUM	Unmodified	3445800	3703400	3411000	211500	281570	224150	51123	0	36753
AFVSMVYSEEGAEDR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	1194600	2176000	1875600	0	0	0	0	0	0
AFVSMVYSEEGAEDRTFAR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	5578500	4122500	6310400	87990	105040	118490	0	0	0
AFYPEEISSMVLTK	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Oxidation (M)	32908000	30540000	29827000	325320	423300	96826	73944	64832	71689
AGAARELPLYR	ENO2	P09104	ENOG	HUM	Unmodified	10321000	6681300	10844000	0	0	0	0	0	0
AGAAGGPEEEAEKPVK	PCNP	Q8WW12	PCNP	HUM	Unmodified	15181000	12257000	14015000	449130	576080	643750	0	0	0
AGAAGGPEEEAEKPVK	PCNP	Q8WW12	PCNP	HUM	Methyl (KR)	573770	470710	478730	0	40163	0	0	0	0
AGAAGGPEEEAEKPVKTK	PCNP	Q8WW12	PCNP	HUM	Unmodified	6810800	10959000	2960700	2793300	2926800	2999400	0	176940	0
AGAAGKDLLNELESPKEEPIEE	WDR11	Q9BZH6	WDR11	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
AGAAGR	SOX17; TENT4A; FA	Q9H6I2; Q5XG87	SOX17	HUM	Acetyl (Protein N-t	0	0	0	818870	778080	158770	665130	430600	100610
AGAAGTAEATAR	BCAM; BCAM; BCA	P50895; A0A087	BCAM	HUM	Unmodified	17807000	21813000	256330	0	2775700	6012600	141410	0	0
AGAAPVAPEKQATELALLQR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2	HUM	Unmodified	2521800	1733300	2202800	0	0	0	0	0	0
AGAAPYVQAFDSLLAGPVAEYLK	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUMA	Unmodified	445420	276880	410780	0	0	0	0	0	0
AGADEERAETAR	CCT2; CCT2; CCT2	P78371; F5GWF6;	TCPB	HUMA	Unmodified	11647000	13843000	14752000	165550	46695	191740	0	0	0
AGADSLLR	NFKBIE; NFKBIE; N	O00221; H0Y4W4	IKBE	HUMA	Unmodified	148780	360730	300620	7536100	5309.8	46373000	0	0	0
AGAEGFVR	HTATIP2	Q9BUP3	HTAI2	HUM	Unmodified	582220	833120	929410	0	0	0	0	0	0
AGAFDQLKQNATK	SRP54; SRP54; SRP5	P61011; G3V480;	SRP54	HUM	Unmodified	617970	590230	422520	34450	0	36975	0	0	0
AGAGDASGTR	HACD2	Q6Y1H2	HACD2	HUM	Unmodified	54365	0	0	0	0	0	0	0	0
AGAGLGDGER	SRRT	Q9BXP5	SRRT	HUM	Unmodified	1997400	3345200	3778200	251640	430120	83089	0	0	0
AGAGPAPGLPGAGGPVVPGPGAGIPGKSGEER	RBM42; RBM42; RB	Q9BTD8; K7EP9C	RBM42	HUM	Acetyl (Protein N-t	1635400	1090300	1462100	362490	312410	229010	0	0	20076
AGAGSATLSMAYAGAR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Oxidation (M)	26186000	26024000	25060000	1768300	1697400	1924200	143380	114920	154680
AGAHLQGGAK	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMA	Unmodified	7599900	6291500	0	2375900	2379800	2407900	239240	312970	314640
AGAIAPCEVTVPAQNTGLGPEK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0	HUMA	Unmodified	2773400	2788400	3498700	0	0	55784	0	0	0
AGAIAPCEVTVPAQNTGLGPEK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0	HUMA	Deamidation (N)	3352500	2773300	2985100	0	0	0	0	57505	0
AGAISASGPELQAGHSK	AHNAK	Q09666	AHNK	HUM	Unmodified	1224700	1811700	1698200	505480	504260	581340	0	219270	157850
AGAISASGPELQAGHSKLQVTMPGIK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	434540	297960	243080	148450	0	142830
AGALLPAIHEQLR	LAMA5	O15230	LAMA5	HUM	Unmodified	1465000	0	0	0	33777	0	0	0	0
AGASIPSSGAASPR	SLAIN2	Q9P270	SLAI2	HUM	Unmodified	1440300	936130	1134400	140760	114650	133860	0	61579	0
AGASPPPVSELDRADAWLLR	TMEM160	Q9NX00	TM160	HUM	Unmodified	1898100	679520	1526500	0	0	0	0	0	0
AGATSEGVLANFFNSLLSKK	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1	HUM	Unmodified	486980	321880	465420	0	0	0	0	0	0
AGATSEGVLANFFNSLLSKK	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1	HUM	Methyl (KR)	0	53727	114120	0	0	0	0	0	0
AGAVEKGVPLYR	ENO1; ENO1; ENO1;	P06733; K7EM90	ENOA	HUM	Unmodified	10178000	10391000	10641000	229270	269320	329960	0	31890	0
AGAVEKGVPLYR	ENO1; ENO1; ENO1;	P06733; K7EM90	ENOA	HUM	Methyl (KR)	10184000	8403900	8762200	61194	47743	0	0	0	0
AGAWELR	DLL3	Q9NYJ7	DLL3	HUMA	Unmodified	284320	791850	758030	0	0	0	0	0	0
AGDAGIFVSR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	4017100	5329300	5434100	184990	222790	221380	0	0	0
AGDEFVEK	HADH; HADH; HAD	Q16836; A0A1W2	HCDH	HUM	Unmodified	1858200	2867700	3535600	152690	141160	61379	0	0	0
AGDEIDEPSERER	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512	HUM	Unmodified	811640	798440	759540	0	0	0	0	0	0
AGDFGAAFVER	OPLAH	O14841	OPLA	HUMA	Unmodified	2436400	1950600	1833000	63693	56402	54189	0	0	0
AGDFLEANYMNLQR	C3; C3	P01024; M0R0Q9	CO3	HUMA	Oxidation (M)	1907400	1595400	1410400	124080	98365	113160	22560	0	21736
AGDKDDITEPAVCALR	JUP	P14923	PLAK	HUM	Unmodified	0	0	1633600	0	0	0	0	0	0
AGDLLEDSPK	HDGF	P51858	HDGF	HUM	Unmodified	0	4143300	3687700	0	0	0	0	0	0
AGDLLEDSPKRPK	HDGF	P51858	HDGF	HUM	Unmodified	3081700	1754800	2369200	305220	256100	315420	21914	0	0
AGDLRDTGIFLDLMHLK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Oxidation (M)	1790100	3682300	2662500	0	0	0	0	0	0
AGDLVFAK	HDGFL3; HDGFL3	Q9Y3E1; H3BPQ	HDGR3	HUM	Unmodified	2443900	2105500	0	0	467260	432540	0	0	0
AGDMENAENILTVMR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	2 Oxidation (M)	4064200	3605400	4933000	172440	145520	112910	0	0	0
AGDMENAENILTVMR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	2 Oxidation (M);De	658460	501960	566310	0	0	0	0	0	0
AGDNILAVLK	ERMP1; ERMP1; ER	Q7Z2K6; A0A0C4	ERMP1	HUM	Unmodified	3447800	0	0	0	0	0	0	0	0
AGDPVILYVNK	TM9SF1; TM9SF1; T	O15321; E9PS99;	TM9S1	HUM	Unmodified	1093100	809250	837590	0	56090	0	0	0	0
AGDREDITEPAICALR	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1	HUM	Unmodified	953100	879580	1101300	38759	29290	0	0	0	0
AGDRQPEWLEEQQGR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	5979400	6082200	5923000	296300	283740	290560	0	45025	0
AGDTGVKLEVNER	HIP1	O00291	HIP1	HUMA	Unmodified	464130	559200	387230	0	9993.9	0	0	0	0
AGDVEEDASQLIFPK	POLR2D; POLR2D	O15514; E9PHV4	RPB4	HUMA	Unmodified	817960	244740	600700	0	0	0	0	0	0
AGEAGKLEEVMQELR	CORO1B	Q9BR76	COR1B	HUM	Oxidation (M)	12896000	14975000	13597000	923230	976520	778550	174450	41044	143760
AGEARPGPTAESASGPSEDPSVNFLK	SQSTM1; SQSTM1;	Q13501; E9PFW8	SQSTM	HUM	Unmodified	9819300	0	1995700	141080	0	203210	0	0	0
AGEDAVWVLDSGSVR	QSOX2	Q6ZRP7	QSOX2	HUM	Unmodified	894410	961240	1004200	0	0	0	0	0	0
AGEGGGVIQGSASEATLVALLAAR	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Unmodified	4301000	1563700	3152200	0	0	0	0	0	0

AGEIELELQR	GPT2	Q8TD30	ALAT2_HUM	Unmodified	1219000	1020700	982920	0	0	0	0	0
AGELKVVNGAAASQPPSKR	SF3B1	O75533	SF3B1_HUM	Deamidation (N)	1279800	1157200	745600	0	0	0	0	0
AGELTEDEVER	RPS18	P62269	RS18_HUMA	Unmodified	22189000	19205000	21336000	1334500	1657100	1827300	0	0
AGELTEDEVERVITIMQNPR	RPS18	P62269	RS18_HUMA	Oxidation (M)	11364000	8605500	10803000	0	0	0	37518	0
AGELTPEEEAQYKK	CALML5	Q9NZT1	CALL5_HUM	Acetyl (Protein N-t	6930800	5407500	7807200	822580	900580	918120	9148	0
AGEQKPSSNLLEQFILLAK	COPS7B; COPS7B; C	Q9H9Q2; J3KQV6	CSN7B_HUM	Acetyl (Protein N-t	387520	242650	0	0	0	0	0	0
AGEQLAPFLPQLVPR	ECPAS; ECPAS	Q5VYK3; J3KN1	ECM29_HUM	Unmodified	2253200	2225100	1888400	0	0	0	0	0
AGEQQETASRELVKEPAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	0	0	0	0	105690	0	0	0
AGESGHTVADYLK	DYRK1A; DYRK1A;	Q13627; A0A2R8	DYR1A_HUM	Unmodified	484130	453940	450040	0	0	0	0	0
AGEVERDLDKADSMIR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	2246700	2771300	1091800	355450	334010	0	0	0
AGEVFIHKDKGFGFIR	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Unmodified	2818300	2354700	2562300	0	0	0	0	0
AGEVINQPMMMAAR	VCL	P18206	VINC_HUMA	3 Oxidation (M)	2105400	1974500	2821100	596680	707440	704690	0	238660
AGEVQEPELR	AZGP1	P25311	ZA2G_HUMA	Unmodified	140390	0	0	0	231430	240790	0	14623
AGEYIFER	ALDH6A1	Q02252	MMSA_HUM	Unmodified	3799100	2608000	3149000	760970	790380	733360	0	0
AGFADPDDFTLGAGPR	FAM83H; FAM83H;	Q6ZRV2; J3KPS2	FA83H_HUM	Unmodified	0	0	0	0	0	0	0	0
AGFAGDDAPR	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ_HUM	Unmodified	472340000	542030000	514600000	24871000	25082000	25141000	4400600	2043900
AGFAGDDAPRAVFPSIVGR	POTEE; POTEI; POT	Q6S8J3; P0CG38;	POTEE_HUM	Unmodified	84711	0	141380	45228	34662	31850	407120	333120
AGFAGDQIPK	ACTR1A; ACTR1B;	P61163; P42025;	ACTZ_HUMA	Unmodified	3400800	1854000	2855700	175340	154780	177080	0	0
AGFDSDYDQALADIR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	0	1351400	1678600	0	0	0	0	0
AGFFGDAMK	HSPG2	P98160	PGBM_HUM	Oxidation (M)	553050	433840	324800	160380	115530	0	0	0
AGFGSKGSSSSVTSR	DES	P17661	DESM_HUM	Unmodified	0	0	0	0	0	0	275620	0
AGFIQDTSLILYEEVKPNLTER	USP7; USP7; USP7	Q93009; A0A669	UBP7_HUMA	Unmodified	603050	0	736330	0	0	0	0	0
AGFLDLKDFLPK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	2409700	2791800	2640100	0	0	0	0	0
AGFLDLKDFLPKEYVK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	936800	631110	480800	0	0	0	0	0
AGFTAAYSEK	IGF2R	P11717	MPRI_HUMA	Unmodified	1465800	1179100	1476600	0	0	0	0	0
AGFVPVYLR	NAT10; NAT10	Q9H0A0; A0A087	NAT10_HUM	Unmodified	1953600	1385500	1847600	24789	28730	22953	0	0
AGGAAVVITEPEHTK	RCC2	Q9P258	RCC2_HUMA	Unmodified	0	0	0	0	0	0	0	0
AGGAAVVITEPEHTKER	RCC2	Q9P258	RCC2_HUMA	Unmodified	23486000	24421000	22887000	1112100	1502700	1737500	0	0
AGGAAVVITEPEHTKER	RCC2	Q9P258	RCC2_HUMA	Methyl (KR)	1574300	0	0	69945	0	71784	0	0
AGGADAVQTVTGGLR	EHD4	Q9H223	EHD4_HUMA	Unmodified	2280000	2608100	2550200	122590	208970	131600	0	0
AGGAGVPAFYTPTGYGTLVQEGGSPIK	OXCT1	P55809	SCOT1_HUM	Unmodified	5520400	5023300	5318300	0	0	0	0	0
AGGAGVPAFYTPTGYGTLVQEGGSPIKYNK	OXCT1	P55809	SCOT1_HUM	Unmodified	2178000	1264400	1516500	0	0	0	0	0
AGGASPAASSTAQPPTQHR	IRF2BP1	Q8IU81	IF2BP1_HUMA	Unmodified	0	3152000	3856600	233470	0	0	0	0
AGGDLSLSPGR	BEGAIN; BEGAIN; I	Q9BUH8; A0A1B	BEGIN_HUM	Unmodified	314850	0	272880	0	0	0	0	0
AGGDSGNVDDDCERVKGPVGSLK	USP47	Q96K76	UBP47_HUM	3 Methyl (KR)	0	1507400	0	0	0	0	0	0
AGGEAGVTLGQPHLSR	EIF2S3; EIF2S3B; EII	P41091; Q2VIR3;	IF2G_HUMA	Acetyl (Protein N-t	5614500	5735700	6514900	465560	411090	431210	0	0
AGGEAGVTLGQPHLSRQDLTTLDVTK	EIF2S3; EIF2S3B; EII	P41091; Q2VIR3;	IF2G_HUMA	Acetyl (Protein N-t	925600	796820	1307900	0	0	0	0	0
AGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISR	EIF2S3; EIF2S3B; EII	P41091; Q2VIR3;	IF2G_HUMA	Acetyl (Protein N-t	507850	0	0	0	0	0	0	0
AGGEELDEGVAK	LRRFIP1	Q32MZ4	LRRF1_HUM	Unmodified	710430	472050	451870	35687	0	39994	0	0
AGGEELDEGVAKDNAK	LRRFIP1	Q32MZ4	LRRF1_HUM	Unmodified	997160	753930	902110	0	54512	60746	0	0
AGGFASALER	MRPS28; MRPS28; M	Q9Y2Q9; H7C5V	RT28_HUMA	Unmodified	4398800	3222200	3417900	81745	108210	92400	0	0
AGGFLMKK	PGK1	P00558	PGK1_HUMA	Oxidation (M)	10873000	10476000	12017000	153000	0	119830	0	0
AGGGAAEQEELHYIPIR	NEK9; NEK9; NEK9	Q8TD19; G3V5V	NEK9_HUMA	Unmodified	1956600	1487200	1983800	153950	122290	0	0	0
AGGGRDMFASVGADGSVR	DCAF7; DCAF7	P61962; A0A087	DCAF7_HUM	Oxidation (M)	0	2739300	3253600	59778	0	64605	0	0
AGGIETIANEFSDR	HSPH1; HSPH1	Q92598; R4GN69	HS105_HUM	Unmodified	383390	1254900	1799900	60406	15602	0	0	0
AGGIETIANEFSDR	HSPH1; HSPH1	Q92598; R4GN69	HS105_HUM	Deamidation (N)	584730	819520	870620	0	0	0	0	0
AGGIETIANEYSDR	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74_HUM	Unmodified	0	965650	911490	0	0	0	0	0
AGGIETIANEYSDR	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74_HUM	Deamidation (N)	705630	641580	652340	0	145650	0	0	0
AGGKEFLETVKELR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	1380100	1822800	1304200	0	0	0	0	0
AGGKEFLETVKELRK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	545450	632540	502580	0	0	0	0	0
AGGKILTFDQLALDSPK	RPL18; RPL18; RPL	Q07020; F8VUA6	RL18_HUMA	Methyl (KR)	1231200	1285700	988740	0	0	0	0	0
AGGLDWPEATEVSPSR	PKP3; PKP3; PKP3;	Q99J44; E9PK71	PKP3_HUMA	Unmodified	1187300	770730	940640	83891	81830	77088	0	0
AGGLLGAGPDPR	DERPC	P0CG12	DERPC_HUM	Unmodified	397520	2917800	2934600	510950	375370	406670	0	0
AGGNQRNRGNR	RAMAC; RAMACL	Q9BTL3; A0A3B3	RAMAC_HUM	2 Methyl (KR);Dea	245170	147090	240830	0	0	27230	0	0
AGGPAAAEPLLAAEKAEEPGDRPAEEWLGR	SFT2D3	Q587J9	SFT2C_HUM	Unmodified	1358900	0	1272000	0	0	0	0	0
AGGPATPLSPTR	LMNB2	Q03252	LMNB2_HUM	Unmodified	17109000	23602000	22082000	2738800	2789800	3045600	212430	235550
AGGPGLERAEAGVPAEFSIWTR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA_HUMA	Unmodified	4357700	3522900	3636200	0	0	0	411170	14899
AGGPGLERGEAGVPAEFSIWTR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	6365800	4950200	4992700	96359	45548	19282	170050	59499
AGGPLGLSIVGGSDHSSHPFGVQEPGVFISK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	17476000	15851000	16636000	0	0	0	0	0
AGGPPESVEGEAPPAPPEAQR	ZSCAN18; ZSCAN18	Q8TBC5; A0A0C	ZSC18_HUM	Unmodified	1007800	833780	971670	470350	363630	452570	54095	57743
AGGPTTPLSPTR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Unmodified	51227000	39597000	47211000	628160	875030	924410	212070	120560
AGGSAALPSPSK	H1-10	Q92522	H1X_HUMAN	Unmodified	5995900	5624200	5017600	292760	303390	358330	0	16051
AGGSPAPGPETPAISPSKR	DUT; DUT	P33316; H0YKJ0	DUT_HUMAN	Unmodified	2723600	2780800	2058400	338780	485740	418120	0	0
AGGTEIGKTLAEK	ZRANB2	O95218	ZRAB2_HUM	Unmodified	753830	689740	851890	0	0	0	0	0
AGGVASGLNHVLTNDLTAK	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	1893600	571960	181260	0	0	0	0	0
AGGVASGLNHVLTNDLTAKR	SCIN	Q9Y6U3	ADSV_HUMA	Unmodified	565510	829830	1136800	0	0	0	0	0
AGGVASGLNHVLTNDLTAKR	SCIN	Q9Y6U3	ADSV_HUMA	2 Deamidation (N)	764670	911150	1582500	0	36880	0	0	0
AGGVFTPGAAFSK	SCCPDH	Q8NBX0	SCPDL_HUM	Unmodified	7635000	6820800	8775200	296410	285200	312560	0	0
AGGVGLNLSAASR	HLTF; HLTF; HLTF	Q14527; A0A0C4	HLTF_HUMA	Unmodified	657160	662490	626200	19245	0	0	0	0
AGHFDKEIVPVLVSTR	ACAT2	Q9BWD1	THIC_HUMA	Unmodified	8754900	10347000	11042000	82350	89359	57719	0	0
AGHMVPSDQGDMALK	SCPEP1; SCPEP1	Q9HB40; I3L4Z9	RISC_HUMA	2 Oxidation (M)	2209800	780140	726310	0	0	0	0	0
AGHNVIALVGGATAR	YARS2; YARS2	Q9Y2Z4; H0YHS	SYYM_HUM	Unmodified	1293600	1489900	0	0	0	0	0	0
AGHRTPLSDSGVTQR	OSGEP	Q9NPF4	OSGEP_HUM	Unmodified	398330	0	493540	88448	74671	118230	0	0
AGIAAKLAKDREAAEGLGSHDR	CAPN2	P17655	CAN2_HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	51346	0
AGIEGPLLASDVGR	SON; SON	P18583; H7C1M2	SON_HUMAN	Unmodified	5114000	5187100	4425800	353050	265880	303530	50345	53765
AGIEGPLLASDVGRDR	SON; SON	P18583; H7C1M2	SON_HUMAN	Unmodified	5224800	6311700	5585000	508460	535920	509470	82027	99822
AGIFQSVK	COX6C	P09669	COX6C_HUM	Unmodified	19376000	16148000	16244000	1317600	1230300	1481900	270630	321590
AGIICQLNAR	MCM4; MCM4; MC	P33991; A0A3B3	MCM4_HUM	Unmodified	1816300	1533400	1834300	0	0	0	0	0
AGIISTVEVLK	NPEPPS; NPEPPS; N	P55786; A0A7I2	PSA_HUMAN	Unmodified	3313600	3230800	2869300	26282	0	31310	0	0
AGIKVTVAGLAGKDPVQCSR	PARK7; PARK7	Q99497; K7ELW	PARK7_HUM	Unmodified	1356000	789730	959300	0	0	0	0	0
AGILTTLNAR	MCM7	P33993	MCM7_HUM	Deamidation (N)	1773100	1309800	1361200	0	0	0	0	0
AGILTTLNAR	MCM7	P33993	MCM7_HUM	Unmodified	4939900	4462800	3753200	0	0	0	0	0
AGIPKEEVKEAYMGNVLQGGEGQAPTR	ACAT1; ACAT1; AC	P24752; E9PRQ6	THIL_HUMA	Oxidation (M)	2480800	1972700	3018300	0	69891	78946	0	0
AGIPVYAWK	AHCY	P23526	SAHH_HUMA	Unmodified	8266600	8279700	12841000	534930	619310	577700	54112	25633
AGIQQVYTR	CUL1; CUL1; CUL1;	Q13616; A0A590	CUL1_HUMA	Unmodified	631290	676390	495460	0	0	0	0	0
AGITTIEAVKRK	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Acetyl (Protein N-t	0	0	0	105850	123340	153740	0	0
AGITTTLNSR	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Unmodified	1085000	0	913210	0	0	0	0	0
AGITTTLNSR	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Deamidation (N)	1767200	1541300	1577100	0	0	0	0	0
AGIVTSLQAR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Unmodified	5974200	6431800	5636000	59184	44713	0	0	0
AGKASFAYAWVLDETGEERERGVTMDVGMTK	HBS1L; HBS1L; HBS	Q9Y450; J3QT46	HBS1L_HUM	2 Oxidation (M);3 !	0	0	0	0	51608	33273	83486	23670
AGKGGPTPQEAIQR	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	2220100	3311400	2357700	133130	84935	83601	0	0
AGKGGPTPQEAIQR	CHMP4B	Q9H444	CHM4B_HUM	Methyl (KR)	710260	699640	960280	0	0	0	0	0
AGKIFSQMNNIMSK	BIRC6; BIRC6	Q9NR09; A0A3B3	BIRC6_HUM	2 Oxidation (M);M	1827300	1828200	1832800	1732000	2066200	1924600	0	0
AGKLDPHLVLDQLR	MYH9; MYH10	P35579; P35580	MYH9_HUM	Unmodified	1651600	2091600	1779000	0	0	0	0	0
AGKPVICATQMLESMIK	PKM; PKM; PKM; P	P14618; B4DNK4	KPYM_HUM	2 Oxidation (M)	2083500	2377600	3574400	0	0	0	17977	0
AGKVEAQHILASAPTDR	PYCR3; PYCR3	Q53H96; A0A0A0	P5CR3_HUM	Unmodified	0	0	418670	0	0	0	0	0
AGLAASLAGPHSIVGR	SOD3	P08294	SODE_HUMA	Unmodified	0	0	0	35020	0	0	101180	0
AGLAMPGPPLGPVLGQR	MRPL11; MRPL11	Q9Y3B7; E9PQB6	RM11_HUMA	Oxidation (M)	205710	2475500	1126300	0	0	0	0	0
AGLAPLEVR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	4069000	5743400	3553200	490580	519930	520250	103270	97431
AGLAYHLR	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	0	0	726840	0	0	0	0	0
AGLEDLQVAFR	CALML5	Q9NZT1	CALL5_HUM	Unmodified	19313000	6494200	18765000	21042	0	39187	0	0
AGLELLSDQGYRVDGR	EXOSC4; EXOSC4	Q9NPD3; E9PPI9	EXOS4_HUM	Acetyl (Protein N-t	484610	342660	431670	0	0	0	0	0
AGLELLSDQGYRVDGRR	EXOSC4; EXOSC4	Q9NPD3; E9PPI9	EXOS4_HUM	Acetyl (Protein N-t	0	1212100	0	0	0	0	0	0
AGLEQELEAGVGGR	PRMT6; PRMT6	Q96LA8; A0A3B3	ANM6_HUM	Unmodified	2173800	2192900	0	0	0	0	0	0
AGLESSEGGGGPERPGAR	SCD5	Q86SK9	SCD5_HUMA	Unmodified	3018200	2921900	2951900	175170	0	152000	0	0
AGLGHPAAFGR	DDAH1	O94760	DDAH1_HUM	Acetyl (Protein N-t	53039000	57957000	48545000	7435200	7246300	6937000	1569400	1920700
AGLGSGLSLSGLVHPELSR	ACADVL; ACADVL	P49748; G3V1M7	ACADV_HUM	Unmodified	30586000	20755000	23246000	18657	0	0	17115	0
AGLLEPEVFHLNPAK	CPT2; CPT2; CPT2;	P23786; A0A1B0	CPT2_HUMA	Unmodified	578780	725410	769610	0	0	0	0	0
AGLLFIFNFHPSK	GBE1; GBE1	Q04446; E9PGM4	GLGB_HUM	Deamidation (N)	413740	317440	267920	0	0	0	0	0
AGLLGQPR	TIMM9; TIMM9; TIM	Q9Y5J7; G3V502	TIM9_HUMA	Unmodified	7178900	5747700	10134000	1085000	762560	778600	167820	137110
AGLLQPPVR	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1_HUM	Unmodified	2179600	1572700	2187600	215140	228130	190370	0	27717
AGLNEMVEYITHSR	PPP2R5D; PPP2R5D	Q14738; H0Y8C4	2A5D_HUMA	Oxidation (M)	1236700	3866200	2658500	0	0	0	0	0
AGLNGLQLAVLAR	WRNIP1	Q96S55	WRIP1_HUM	Deamidation (N)	0	0	585090	0	0	0	0	0
AGLQFPVGR	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX_HUMA	Unmodified	4154200000	4041100000	4734300000	124160000	133780000	180950000	12648000	14064000
AGLQVYNK	CD59; CD59; N/A	P13987; A0A2U3	CD59_HUMA	Unmodified	0	0	0	262620	247430	248520	0	0
AGLSSGFIGCVR	HSPG2; HSPG2	P98160; A0A0U1	PGBM_HUM	Unmodified	0	0	553180	136590	147370	119020	40167	28608
AGLTVRDPAVDR	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2_HUM	Acetyl (Protein N-t	9440300	9262000	9971300	536350	715560	695370	89087	0
AGLVDDFEK	ATP5PD; ATP5PD	O75947; F5H608	ATP5H_HUM	Unmodified	2604700	2138900	2161200	71218	0	62945	0	0
AGLVELLLR	SNTB2; SNTB2	Q13425; A0A140	SNTB2_HUM	Unmodified	788090	552500	800750	0	0	0	0	0
AGLVKGKGGETIK	FUBP1; KHSRP; FUI	Q96AE4; Q92945	FUBP1_HUM	Unmodified	2198500	1229100	1736000	69336	115070	94406	0	0
AGLVKGKGGETIKQLQER	FUBP1; KHSRP; FUI	Q96AE4; Q92945	FUBP1_HUM	Unmodified	5415200	6029400	4542300	315990	269340	188980	22101	0
AGLYGLPR	FASN; FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	6165800	6422300	5833100	296550	274380	293740	117960	105110
AGMIFYR	SHMT1	P34896	GLYC_HUMA	Oxidation (M)	1812000	1344200	1658700	67990	74188	68337	0	0
AGMTHIVR	RPL3; RPL3; RPL3;	P39023; H7C3M2	RL3_HUMAN	Oxidation (M)	0	0	2121100	0	0	0	0	0
AGMVPSKVPTSMVLTK	MAVS	Q7Z434	MAVS_HUM	2 Oxidation (M)	5358200	4820300	5691100	463320	485190	484960	80304	86011
AGNAIHAILLYR	CPT1A; CPT1A	P50416; H3BMD2	CPT1A_HUM	Deamidation (N)	895740	683450	728350	0	0	0	0	0
AGNASKDEIDSAVK	WARS1; WARS1; W	P23381; G3V3X0	SYWC_HUM	Unmodified	631280	801900	390780	0	0	0	0	0
AGNFVVPAEPK	RPL7; RPL7; RPL7;	P18124; C9JZ88	RL7_HUMAN	Unmodified	1000400	824420	1038500	44189	0	0	0	0
AGNGQWASVIR	SF3B3	Q15393	SF3B3_HUM	Deamidation (N)	6633300	5788800	5857100	395580	403030	485840	30638	50110
AGNILLNTEGHAK	STK3; STK4; STK4	Q13188; Q13043;	STK3_HUMA	Deamidation (N)	1849600	584040	504230	20376	30449	21437	0	0
AGNILLNTEGHAK	STK3; STK4; STK4	Q13188; Q13043;	STK3_HUMA	Unmodified	354800	598930	627340	22807	0	0	0	0
AGNILLTEPGQVK	TAOK1; TAOK3; TA	Q7L7X3; Q9H2K8	TAOK1_HUM	Unmodified	0	876340	1625300	62013	76689	69366	0	0

AGNKGYAYTFITEDQAR	DDX46; DDX46	Q7L014; A0A0C4	DDX46	HUM	Unmodified	0	1453100	0	84032	70431	59956	0	0	0
AGNKGYAYTFITEDQAR	DDX46; DDX46	Q7L014; A0A0C4	DDX46	HUM	Deamidation (N)	0	1758000	0	0	0	0	0	0	0
AGNKMFCRPR	H2AL1RP	A0A3B3IU63	A0A3B3IU63		Oxidation (M);2 M	376230	390730	364780	777950	778510	886630	0	0	0
AGNLGGGVVTIER	RPL22; RPL22; N/A;	P35268; K7EP65;	RL22	HUMA	Unmodified	19334000	23428000	20938000	882550	892280	1071900	80420	55256	63269
AGNLGGGVVTIER	RPL22; RPL22; N/A;	P35268; K7EP65;	RL22	HUMA	Deamidation (N)	7730000	4895700	4992000	190040	84963	153020	0	0	0
AGNNMLLVGVHGPR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Oxidation (M);Deai	1544800	1196800	1116700	102900	127770	0	0	0	0
AGNNMLLVGVHGPR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Oxidation (M);2 De	1727500	1576400	1842500	40466	27555	0	38578	25375	0
AGNPAVAAPQSPLSPEGAHFR	RBP1	A0A0A0MQT0	A0A0A0MQT		Unmodified	1436500	997160	1293700	116060	98866	151070	0	0	0
AGPAKEQEPMPTVDSHEPR	JPT2; JPT2; JPT2	Q9H910; A6NGP5	JUP2	HUMA	Oxidation (M)	2660300	2211300	2668600	67089	479170	534440	0	0	0
AGPEGIEPR	URB2	Q14146	URB2	HUMA	Unmodified	575520	1203200	739820	32058	0	59830	0	0	0
AGPEGTSQEIPK	POP1; POP1	Q99575; E5RK39	POP1	HUMA	Unmodified	0	448450	537320	0	0	0	0	0	0
AGPEQELTR	COG7	P83436	COG7	HUMA	Unmodified	656100	645840	759730	45483	41282	0	0	0	0
AGPESDAQYQFTGIKK	ATP5MK	Q96IX5	ATPMK	HUM	Unmodified	1801000	915860	874230	46572	43670	69726	0	0	59574
AGPEYGQGMNPISR	STAU2; STAU2; ST/	Q9NUL3; E7EVI1	STAU2	HUM	Oxidation (M)	0	1457400	943560	0	0	75204	0	0	0
AGPFDEFQIATMLK	STK26; STK26; STK	Q9P289; B4E0Y9	STK26	HUM	Unmodified	0	425200	391700	0	0	0	0	0	0
AGPGEQGLLNAYR	FRMD8; FRMD8	Q9BZ67; E9PS62	FRMD8	HUM	Unmodified	753640	908810	677610	0	0	69689	0	0	0
AGPGSEELTVTNAR	KIFC1	Q9BW19	KIFC1	HUM	Unmodified	818720	0	1261900	0	32409	0	0	0	0
AGPGSSPLFSLLPGYR	SMG9	Q9H0W8	SMG9	HUM	Unmodified	265890	234930	228110	0	0	0	0	0	0
AGPGTLSVTIEGPSK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	0	0	0	298380	272240	245920	68742	44889	43582
AGPGTLSVTIEGPSKVK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	0	638670	0	185530	147040	134780	49726	35752	0
AGPIWDLR	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR	HUM	Unmodified	31554000	30195000	26229000	430680	431240	354500	25961	0	0
AGPIWDLRLMMDPLTGLNR	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	2 Oxidation (M)	568880	1086300	832130	0	0	0	0	0	0
AGPNGTLFVADAYK	APMAP; APMAP	Q9HDC9; H0Y51	APMAP	HUM	Deamidation (N)	0	0	1557400	0	0	0	0	0	0
AGPPASIVPLMR	PAK4; PAK4	O96013; M0R1R1	PAK4	HUMA	Oxidation (M)	3322000	3507000	2333400	138540	116610	134850	0	0	0
AGPPVPASHIAPAPVQPPMIR	ARID1A; ARID1A; A	O14497; H0YEW5	ARI1A	HUM	Oxidation (M)	2042200	2327200	1866700	67756	62617	0	0	0	0
AGPSAQEPGSQTPLK	SPAG9; SPAG9	O60271; A0A087	JIP4	HUMA	Unmodified	833550	688960	723890	0	0	0	0	0	0
AGPVAVQVK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	Unmodified	1011400	1131400	980760	91570	0	0	0	0	0
AGPVQVLIVK	ATL1; ATL1; ATL1;	Q8WXF7; A0A6I8	ATLA1	HUM	Unmodified	252110	208330	277660	7470.7	0	0	0	0	0
AGQAVDDFIEK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUMA	Unmodified	3929900	4954800	4311700	0	0	0	0	0	0
AGQEDVLFPVAR	AARS2	Q5JTZ9	SYAM	HUM	Unmodified	1490900	1693100	1943500	471110	406680	414800	0	0	0
AGQENISVSK	ATP1A2; ATP1A2; A	P50993; H0Y7C1	AT1A2	HUM	Unmodified	595190	552030	731610	0	0	0	0	0	0
AGQLLEQK	N/A	N/A	N/A		Unmodified	1743400	1354200	2829600	0	0	0	0	0	0
AGQMVTVWAAGAGVAHSPPSTLVWK	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	0	1173500	1145100	0	0	0	0	0	0
AGQPHSSSDAAQAPAEQPHSSSDAAQAPCPR	MPG; MPG	P29372; A2IDA3	3MG	HUMA	Unmodified	1539300	1048300	1529200	0	0	94678	0	0	0
AGQPLPLTLPPELVPPSFR	ITSN2; ITSN2; ITSN2	Q9NZM3; A0A08	ITSN2	HUM	Unmodified	417600	303860	308720	0	0	0	0	0	0
AGQPLQLLDASWYLPK	MPST; MPST	P25325; B1AH49	THTM	HUM	Unmodified	1215600	1060400	1046300	0	0	0	0	0	0
AGQSAAGAAPGGGVDTR	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUMA	Unmodified	1877500	1510200	1920700	309840	323300	370750	482090	476650	584540
AGQSVIGLQMGTNK	CNN3; CNN3	Q15417; E9PDU6	CNN3	HUMA	Oxidation (M)	0	1254000	1088700	70571	83483	53257	0	0	0
AGQTQPNPGILPIQPALTPR	AAK1; AAK1; AAK1	Q2M2I8; A0A096	AAK1	HUM	Unmodified	1913800	0	0	194430	224320	183940	74622	79156	0
AGQVVTIWAAGAGATHSPPTDLVWK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	2953100	3592800	2846500	0	0	0	0	0	0
AGRELQTAQAQLSEWR	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14	HUM	Unmodified	872610	647090	753670	0	0	0	0	0	0
AGRGFSLEELR	RPL13; RPL13	P26373; J3QSB4	RL13	HUMA	Unmodified	964180	808040	824810	69982	59055	50355	0	0	0
AGRLPACVVDCGTGYTK	ACTR3; ACTR3; AC	P61158; F8WEW2	ARP3	HUMA	Acetyl (Protein N-t	1135100	438050	347000	264670	126010	206050	120450	0	96794
AGRPQYDTK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	306270	273270	278700	0	0	0	0	0	0
AGRSEAVVEYVFSGSR	SND1; SND1	Q7KZF4; H7C597	SND1	HUMA	Unmodified	2412000	1647300	1704800	0	0	0	0	0	29477
AGSEGLQQVVGMKK	IRGQ	Q8WZA9	IRGQ	HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
AGSGEGPGKAGSEGLQQVVGMKK	IRGQ	Q8WZA9	IRGQ	HUMA	Oxidation (M)	923600	1056800	994300	0	0	0	0	0	0
AGSGTGVGAMLAR	CXXC1; CXXC1; CX	Q9P0U4; K7EJR0	CXXC1	HUM	Oxidation (M)	457390	481130	0	102250	108450	134670	19098	20127	22046
AGSLGPETPSR	WNK2; WNK2; WNK	Q9Y3S1; F8W9F9	WNK2	HUM	Unmodified	577160	458660	589850	148030	141590	144930	0	0	0
AGSQLRNADVELQQR	AP2A1	O95782	AP2A1	HUM	Deamidation (N)	736940	903340	708720	0	0	0	0	0	0
AGSQVVATTAR	FUNDC2	Q9BWH2	FUND2	HUM	Unmodified	6108400	5237300	5145400	1697800	1441700	1679900	56629	148130	0
AGSRYEDFSNLGTTHLLR	UQCRC2; UQCRC2;	P22695; H3BUI9	QCR2	HUMA	Unmodified	7676100	6684400	7337700	0	0	0	0	0	0
AGSSTPGDAPPAVAEVQGR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	5398900	4585600	4662700	342890	336260	322300	0	0	26987
AGTARHDREMAIQAK	CAPSL; CAPSL; CAI	Q8WWF8; D6RHI	CAPSL	HUM	Acetyl (Protein N-t	6599900	6746300	6150600	1821800	2182500	1878500	2603400	2206500	2190600
AGTEEAIVYSDIDLKK	NIT2	Q9NQR4	NIT2	HUMA	Unmodified	2707200	2423800	3866300	0	0	0	0	0	0
AGTFQAFEQFGQQLLAHGHYASPEIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	6634500	4765300	6674500	0	0	0	0	0	0
AGTGENAPWVVEDELVKK	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	626210	789510	1312100	0	0	0	0	0	0
AGTGLLALR	ALKBH7	Q9BT30	ALKB7	HUM	Acetyl (Protein N-t	438880	279290	329060	0	45313	0	0	0	0
AGTGVDNVDLEAATR	PHGDH; PHGDH; PI	O43175; A0A286	SERA	HUMA	Unmodified	9448000	8455400	8898500	1195000	1615700	3265600	0	0	0
AGTGVDNVDLEAATRK	PHGDH; PHGDH; PI	O43175; A0A286	SERA	HUMA	Unmodified	1588500	995540	2194700	182710	164630	164140	0	14220	0
AGTLLPVIQFLQK	PWP2; N/A; LOC102	O15269; A0A096	PWP2	HUMA	Unmodified	0	265310	260360	0	0	0	0	0	0
AGTLQVGDR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	0	1362100	1625800	0	0	0	0	0	0
AGTLSITEFADMLSGNAGGFR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M);Deai	620600	977720	646910	0	0	0	0	0	0
AGTLSITEFADMLSGNAGGFR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	2145700	1798400	2426400	0	0	0	0	0	0
AGTRTDSREDEISPPPPNPVVK	PRKAR1A; PRKAR1	P10644; K7EJ40	KAP0	HUMA	Unmodified	957170	1392200	906440	0	0	70748	0	0	0
AGTVSPGKEDPVSSR	GPRIN1	Q7Z2K8	GRIN1	HUM	Unmodified	0	1233800	1343400	0	0	0	0	0	0
AGTVVLDDVELREAQR	MCM3	P25205	MCM3	HUM	Acetyl (Protein N-t	166720	2400400	1300400	0	0	0	0	0	0
AGVAAPATQVAQVTLQSVQR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	3982400	3390600	863570	85541	0	33608	0	0	0
AGVAFFHLQDYDQAR	TTC9C; TTC9C; TTC	Q8NSM4; E9PKV	TTC9C	HUM	Unmodified	379250	391110	564580	0	0	0	0	0	0
AGVAPLQVK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Unmodified	12469000	9320700	7639300	377050	381600	414010	1039500	904300	842180
AGVAPLQVKVQGPK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Unmodified	0	0	0	330160	0	288430	846900	733380	781040
AGVAPLQVKVQGPK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Methyl (KR)	624500	458590	634190	26149	0	0	88899	84508	76434
AGVDPLVPLR	NAGK; NAGK; NAG	Q9UJ70; C9JEV6	NAGK	HUM	Unmodified	4997300	3403100	5355700	160250	160060	109100	13321	20348	0
AGVEAMSK	DECR1	Q16698	DECR	HUMA	Oxidation (M)	0	0	0	433600	392700	544950	0	0	0
AGVETTKPSKQSNNK	IGLL5; IGLC1; IGLC	B9A064; P0CG04	IGLL5	HUM	2 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
AGVGEPPEPGGRPEPGPR	PSME4; PSME4	Q14997; F8WBH5	PSME4	HUM	Unmodified	6817200	6372900	6612200	87443	168370	113350	0	0	0
AGVHAPEEVGPR	CCDC115; CCDC115	Q96NT0; B8ZZ99	CC115	HUM	Unmodified	743490	651460	554630	0	0	0	0	0	0
AGVIFPVGR	MACROH2A2; MAC	Q9P0M6; O75367	H2AW	HUM	Unmodified	16637000	18054000	15764000	1446000	1216100	1440500	96787	0	0
AGVIGLTQTAAR	HSD17B8	Q92506	DHB8	HUMA	Unmodified	1953200	2825400	2555900	78479	62936	82406	0	0	0
AGVLAHLEEER	MYH9; MYH10	P35579; P35580	MYH9	HUM	Unmodified	1130300	797880	1225400	0	0	0	0	0	0
AGVNFSEFTGVWK	PDCD6; PDCD6	O75340; A0A024	PDCD6	HUM	Unmodified	1004300	918480	1171700	0	0	0	0	0	0
AGVNTVTTLVENK	RPL7A; RPL7A; RPL	P62424; Q5T8U2	RL7A	HUMA	Unmodified	1080300	1317600	676950	0	0	0	0	0	0
AGVNTVTTLVENK	RPL7A; RPL7A; RPL	P62424; Q5T8U2	RL7A	HUMA	Deamidation (N)	799620	690630	963490	0	0	0	0	0	0
AGVPMEVMGLMLGEFVDDYTVR	PSMD14; PSMD14	O00487; C9JW37	PSDE	HUMA	3 Oxidation (M)	0	1581400	2427600	0	0	0	0	0	0
AGVQSGTNALLVVK	PAF1	Q8N7H5	PAF1	HUMA	Unmodified	632200	592020	745070	43485	0	37305	0	0	0
AGVQSVGEKESLEAAKEK	ZC3H18; ZC3H18	Q86VM9; E7ERS	ZCH18	HUM	Unmodified	552150	915380	1028800	0	0	0	0	0	0
AGVSFSGHR	DBN1; DBN1; DBN1	Q16643; D6RFI1	DREB	HUMA	Acetyl (Protein N-t	2766900	2890100	3413300	0	20567	46101	0	0	0
AGVSISVVHGNLSEEAAK	CPOX	P36551	HEM6	HUM	Unmodified	1914500	1608000	1885800	0	0	0	0	0	0
AGVSISVVHGNLSEEAAKQMRSR	CPOX	P36551	HEM6	HUM	2 Methyl (KR);Dea	0	112090	0	0	0	0	0	0	0
AGVVGPELHEQLLSAEK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	4182500	3682400	3509600	238760	0	0	0	28163	0
AGVVNGTGAPGQSPGAGR	MTA1; MTA1; MTA	Q13330; E7ESY4	MTA1	HUM	Deamidation (N)	1726400	1385100	2095800	175520	213400	197110	0	0	0
AGYAHFLNVQGR	IBA57	Q5T440	CAF17	HUM	Unmodified	0	952980	1005400	47520	0	0	0	0	0
AGYGGSHISGYATLR	RAPH1; RAPH1	Q70E73; C9K0J5	RAPH1	HUM	Unmodified	967450	0	0	0	0	30709	0	0	0
AGYIIPLQGPGLTTTESR	GAA	P10253	LYAG	HUM	Unmodified	22442000	19255000	15679000	1150100	1043700	855970	240830	0	0
AGYPLEHPFDFR	SGPL1	O95470	SGPL1	HUM	Unmodified	0	0	2061100	15275	0	0	0	0	0
AGYPQYVSEILEK	LRPPRC; LRPPRC; I	P42704; B8ZZ38	LPPRC	HUM	Unmodified	4366000	3793700	3869900	0	12215	0	0	0	0
AGYPQYVSEILEKVTCER	LRPPRC; LRPPRC; I	P42704; B8ZZ38	LPPRC	HUM	Unmodified	255630	255900	296730	0	0	0	0	0	0
AGYQSTLTR	FBN1	P35555	FBN1	HUMA	Unmodified	628650	0	534680	1451100	1341500	1495600	116700	2990000	2884200
AGYSQGATQYTQAQQTR	ZFR	Q96KR1	ZFR	HUMA	Unmodified	1096900	1088000	1378400	153870	156130	133490	0	0	29735
AGYSTDESSSSSLHATR	FXR2	P51116	FXR2	HUMA	Unmodified	759080	1315800	1182100	54182	0	0	0	0	0
AGYTDKVVIGMDVAASEFFR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Oxidation (M)	52735000	35778000	47179000	22625	0	0	0	0	0
AGYTDKVVIGMDVAASEFFR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Oxidation (M);Metl	2113100	1945400	2713200	0	0	0	0	0	0
AHAMAQVDAWK	ACOT2; ACOT1; AC	P49753; Q86TX2	ACOT2	HUM	Oxidation (M)	564850	626780	537880	0	0	0	0	0	0
AHASPFSGALTPSAPPGPEMNR	SEC16A; SEC16A	O15027; F1T0I1	SC16A	HUM	Oxidation (M)	3943000	3131400	3344700	704350	642630	629690	0	85436	88060
AHASPFSGALTPSAPPGPEMNR	SEC16A; SEC16A	O15027; F1T0I1	SC16A	HUM	Oxidation (M);Deai	1960200	0	1382300	191890	87905	85722	0	0	0
AHDERSEASGPQLLPVR	NADK2; NADK2; NA	Q4G0N4; A0A0C4	NAKD2	HUM	Unmodified	540910	488590	508710	360280	310930	360150	0	0	0
AHDGGIYAISWSPDSTHLLSASGDK	WDR1	O75083	WDR1	HUM	Unmodified	215470	370550	370040	0	0	0	0	0	0
AHEAQDAGYR	PPP3CA; PPP3CB; P	Q08209; P16298	PP2BA	HUM	Unmodified	372260	315740	931280	20755	53935	0	0	0	0
AHENEITK	DCN; DCN; DCN; DC	P07585; F8VUF6	PGS2	HUMA	Unmodified	0	0	0	668140	289290	396790	0	0	0
AHESVVKSEDFSLPAYMDRR	COX4I1; COX4I1; CC	P13073; Q86WV2	COX4I	HUM	Oxidation (M)	2013600	0	2307200	0	0	0	0	0	0
AHEVGAQGGPPVAQVEQDLPISR	MDC1	Q14676	MDC1	HUM	Unmodified	4415100	3440100	3247900	0	0	0	0	18355	0
AHEWMFPV	BCAT2; BCAT2; BC	O15382; B3KSI3	BCAT2	HUM	Oxidation (M)	2669300	1615900	2541800	51615	0	0	0	0	0
AHFLDADPGFVHSDGTISHHDMYDYLHLSR	PAFAH1B3; PAFAH	Q15102; M0R1K3	PAIB3	HUM	Oxidation (M)	11142000	46924000	9388500	0	0	0	0	0	0
AHFPLDVQWNDLDYMDSR	GAA	P10253	LYAG	HUM	Oxidation (M)	586620	642710	0	0	0	0	0	0	0
AHFPLDVQWNDLDYMDSR	GAA	P10253	LYAG	HUM	Oxidation (M);Deai	513490	214600	677840	0	0	0	0	0	0
AHFSPSNILDFPAAGSAAR	QSOX1	O00391	QSOX1	HUM	Unmodified	1348400	859990	0	0	0	0	0	0	0
AHFTIWDKLLER	MRPL39	Q9NYK5	RM39	HUM	Unmodified	2217800	1688600	874930	0	0	0	0	0	0
AHGDPVSESFVQR	EGFL7; EGFL7	Q9UHF1; B4GMT	EGFL7	HUM	Unmodified	2356600	2473600	2058300	1627000	1481600	1558600	0	0	0
AHGFTFTR	PDHA1; PDHA1; PDI	P08559; Q5JPU0	ODPA	HUM	Unmodified	1634700	2583500	8053800	0	0	0	0	0	0
AHGGYSVFAGVGER	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB	HUMA	Unmodified	15246000	12852000	10244000	241080	124260	216740	24368	33775	37726
AHGLEVEPSALEQQGFR	HDHD3	Q9BSH5	HDHD3	HUM	Unmodified	8988800	1397900	7791200	323490	354650	272480	0	35322	36417
AHGLLAEENRGLGER	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1117200	897830	1213300	0	0	71760	0	0	0
AHGLLAEENRGLGER	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Deamidation (N)	0	1768200	2577700	0	0	0	84026	27247	85710
AHGNVQDR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUMA	Unmodified	0	173750	232070	0	0	0	0	0	0
AHGPGLEGGLVGKPAEFTIDTK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	2386500	1716500	2019600	0	58185	61634	0	57994	67242
AHGQDLGTAGSCLR	COL4A1; COL4A5; C	P02462; P29400	CO4A1	HUM	Unmodified	828810	613660	679810	207680	170860	142470	66883	39623	9897.8
AHIAQLCEK	CLTCL1; CLTC; CL1	P53675; Q00610	CLH2	HUMA	Unmodified	0	0	1252100	0	0	0	0	0	0
AHLESLVASRPSPQPLAETPIPSLPEFPR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	4615200	5076800	4568400	0	0	0	0	0	0
AHLGTALK	RPS23; RPS23; RPS2	P62266; D6RD47	RS23	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
AHLMEIQVNGGTVAEK	RPL3; RPL3; RPL3;	P39023; B5MCW	RL3	HUMA	Oxidation (M);Deai	7446900	5948100	5408700	0	0	0	0	0	0
AHLMEIQVNGGTVAEKLDWAR	RPL3; RPL3; RPL3;	P39023; B5MCW	RL3	HUMA	Oxidation (M);Deai	1541800	1370800	2434100	0	0	0	0	0	0
AHLVAVFNEYQR	ANXA11; ANXA11	P50995; H0Y6E1	ANX11	HUM	Unmodified	3841900	2624300	3215500	126760	95255	169420	17509	0	0

AHLVAVFNEYQR	ANXA11; ANXA11	P50995; H0Y6E1	ANX11_HUM	Deamidation (N)	470260	1861100	1680900	0	0	0	0	0	0
AHMGMFTELAILYSK	CLTC1; CLTC; CL1	P53675; Q00610;	CLH2_HUMA	2 Oxidation (M)	7118500	8012400	5205000	0	0	0	0	0	0
AHNQDLGLAGSCLAR	COL4A2; COL4A2	P08572; A0A3B3I	CO4A2_HUM	Unmodified	0	703200	580420	163100	275940	211530	44547	49766	0
AHPVFYQGTYSQALNDAKR	FAF2	Q96CS3	FAF2_HUMA	Unmodified	492570	654770	0	0	0	0	0	0	0
AHQITDESLESTRR	SNAP23; SNAP23; S	O00161; H3BNE1	SNP23_HUM	Unmodified	1329000	1059600	1052500	212840	220620	235850	0	29253	0
AHQKELAAQLNEEAK	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	3340000	3375100	1850200	31214	0	0	0	0	0
AHQKELAAQLNEEAKRR	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	2063500	1310800	1330900	0	0	0	0	0	0
AHQTGIHATEELKEFFAK	TWF2; TWF2; TWF2	Q6IBS0; D6RG15;	TWF2_HUMA	Acetyl (Protein N-t	4995700	2108300	2515200	0	0	0	0	0	0
AHQVVEDGYEFFAK	PPP1CA; PPP1CB; P	P62136; P62140; I	PP1A_HUMA	Unmodified	0	936870	2215800	0	0	0	0	0	0
AHQVVEDGYEFFAKR	PPP1CA; PPP1CB; P	P62136; P62140; I	PP1A_HUMA	Unmodified	2329200	3015000	5162100	22695	0	0	9091.5	63428	77651
AHSPMIAVGSDDSSPNAMAK	SEH1L; SEH1L; SEH	Q96EE3; K7EP88	SEH1_HUMA	2 Oxidation (M)	570670	1568300	1101000	165540	0	189430	0	0	0
AHSPMIAVGSDDSSPNAMAK	SEH1L; SEH1L; SEH	Q96EE3; K7EP88	SEH1_HUMA	2 Oxidation (M);De	554240	647360	850070	54083	0	0	0	0	0
AHSSMVGVNLPQK	PGK1	P00558	PGK1_HUMA	Oxidation (M)	66849000	67696000	78941000	968850	475070	484470	0	0	0
AHSSMVGVNLPQK	PGK1	P00558	PGK1_HUMA	Oxidation (M);Deam	0	0	0	0	0	0	0	0	0
AHTDVGPGPESSPVLVR	PTPRF; PTPRF	P10586; H0Y6Z7	PTPRF_HUM	Unmodified	0	0	0	316260	292270	320210	0	0	102740
AHTLLSPPSANNATFAR	POLD2; POLD2; POL	P49005; C9JZD2;	DPOD2_HUM	Unmodified	319240	1248200	411860	0	34814	0	0	0	0
AHTLLSPPSANNATFAR	POLD2; POLD2; POL	P49005; C9JZD2;	DPOD2_HUM	Deamidation (N)	444720	513550	0	0	0	0	0	0	0
AHTLLSPPSANNATFAR	POLD2; POLD2; POL	P49005; C9JZD2;	DPOD2_HUM	2 Deamidation (N)	1121300	1114600	1414300	0	0	19496	0	0	0
AHVEGDGVVEGIIR	SMCHD1	A6NHR9	SMHD1_HUM	Unmodified	1287200	1445300	1447000	0	0	0	0	0	0
AHVIVMAATNRPNSIDPALR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);Deam	486240	2307500	3091000	0	0	0	0	0	0
AHVIVMAATNRPNSIDPALRR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);Deam	1845600	957800	656820	0	0	0	0	0	0
AHVVPCFDASK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	1111300	1112800	616120	0	0	0	0	0	0
AIAALISEKLETLR	DNAJC10; DNAJC10	Q8IXB1; A0A7P0	DJC10_HUM	Unmodified	318900	518840	215660	0	0	0	0	0	0
AIADTGANVVVTGGK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	11076000	10880000	10536000	412480	386380	397490	0	28483	0
AIADTGANVVVTGGK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Deamidation (N)	803990	896490	1075400	0	0	0	0	0	0
AIAELGIYPAVDPLDSTSR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB_HUMA	Unmodified	75106000	68514000	83506000	0	0	110480	35814	0	0
AIAFLQQPR	GART	P22102	PUR2_HUMA	Unmodified	6820100	5418100	4808400	104100	0	89466	0	0	0
AIAGVINQPYYNYEAGPDAVLGR	BPNT1; BPNT1; BPN	O95861; F8W1J0;	BPNT1_HUM	Unmodified	962460	856290	668620	0	0	0	0	0	0
AIAHYEQSADYYK	NAPA; NAPB; NAPB	P54920; Q9H115;	SNAA_HUMA	Unmodified	0	630410	716930	0	0	0	0	0	0
AIAMSLGQDIPMDQR	HUWE1	Q7Z6Z7	HUWE1_HUM	2 Oxidation (M)	900810	730480	1104400	36856	0	37061	0	0	0
AIANECQANFISIK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1006100	1185800	808680	0	0	0	0	0	0
AIAVTVQEMVTK	TLN1	Q9Y490	TLN1_HUMA	Oxidation (M)	999480	0	1752300	0	0	0	0	0	0
AIAYLFPSGLFEK	MRPS9	P82933	RT09_HUMA	Unmodified	1727700	1435700	1742200	0	0	0	0	0	0
AIAYLFPSGLFEKR	MRPS9	P82933	RT09_HUMA	Unmodified	992980	575960	1069500	0	0	0	0	0	0
AICIDPAYSK	SGTA; SGTA; SGTA;	O43765; K7EMD6	SGTA_HUMA	Unmodified	1052900	949930	1159100	0	0	162210	0	0	0
AICTEAGLMALR	PSMC1	P62191	PRS4_HUMA	Oxidation (M)	858620	0	0	0	27184	0	0	0	0
AIDGLNLLPTLLQGR	GALNS	P34059	GALNS_HUM	Unmodified	220350	107510	126760	0	0	0	0	0	0
AIDLFTDAIK	ST13P4; ST13; ST13	Q8IZP2; P50502;	ST134_HUMA	Unmodified	0	2322400	2606300	0	0	0	0	0	0
AIDLFTDAIKLNPR	ST13P4; ST13; ST13	Q8IZP2; P50502;	ST134_HUMA	Unmodified	3025300	4363300	1565700	0	0	0	0	0	0
AIDLLKEIYTNLGPR	USP9X; USP9Y	Q93008; O00507	USP9X_HUM	Unmodified	1019900	948420	770700	0	0	0	0	0	0
AIDMFNK	TOMM70	O94826	TOM70_HUM	Oxidation (M)	2095100	1602600	1997400	0	69769	97982	0	0	0
AIDQEEK	LPCAT1; LPCAT1; L	Q8NF37; A0A0G2	PCAT1_HUM	Unmodified	1482800	0	0	0	0	0	0	0	0
AIEAAPQEPEQK	FLYWCH2; FLYWCI	Q96CP2; I3L1Y9	FWCH2_HUM	Unmodified	987650	812200	1047500	94340	118760	93868	0	0	0
AIEAAPQEPEQKR	FLYWCH2; FLYWCI	Q96CP2; I3L1Y9	FWCH2_HUM	Unmodified	4505800	4455100	5061600	0	475520	387270	0	0	0
AIEDEGGNPDEIEITSEGNKK	SAFB; SAFB	Q15424; K7ES42	SAFB1_HUM	Unmodified	5129100	5520100	5505600	150890	207620	161560	0	0	0
AIEDEGGNPDEIEITSEGNKK	SAFB; SAFB	Q15424; K7ES42	SAFB1_HUM	Deamidation (N)	3061000	3648100	2830900	0	0	0	0	0	0
AIEDEGGNPDEIEITSEGNKKTSK	SAFB; SAFB	Q15424; K7ES42	SAFB1_HUM	Deamidation (N)	1587600	3732700	3342800	0	0	30028	0	0	0
AIEDEGGNPDEIEITSEGNKKTSKR	SAFB; SAFB	Q15424; K7ES42	SAFB1_HUM	Deamidation (N)	913870	1065600	1606200	0	0	0	0	0	0
AIEEGTLEEIEEEVR	SMARCA4; SMARC	P51532; A0A2R8	SMCA4_HUM	Unmodified	2559300	2309100	1125000	0	0	0	0	0	0
AIEEGTLEEIEEEVRQK	SMARCA4; SMARC	P51532; A0A2R8	SMCA4_HUM	Unmodified	1425200	847190	2259100	0	0	0	0	0	0
AIEHADGGVAAGVAVLDNPYPV	GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Unmodified	0	8490100	0	0	0	0	0	0	0
AIEINSGQLLLK	N/A	N/A	N/A	Unmodified	16744000	7683300	13913000	446800	243880	0	0	0	0
AIEINPDSAQPYK	ST13P4; ST13; ST13	Q8IZP2; P50502;	ST134_HUMA	Unmodified	1474600	1163500	0	0	0	0	0	0	0
AIEIYTDMGR	NAPA; NAPA; NAP/	P54920; M0R2M1	SNAA_HUMA	Oxidation (M)	856940	601730	846730	0	0	0	0	0	0
AIEKLAVEALSSLDGDLAGR	CKB; CKB	P12277; G3V4N7	KCRB_HUM	Unmodified	1762400	94032	1665900	0	0	0	0	0	0
AIEKMNGMLLNDRK	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	2 Oxidation (M);2 I	1236300	1366000	954160	0	0	0	0	0	0
AIELFSVGQGPAK	NMT1; NMT1; NMT	P30419; A0A7I2V	NMT1_HUM	Unmodified	5019900	5849800	3361500	0	0	0	0	0	0
AIELLEK	LIN7A; LIN7C; LIN7	O14910; Q9NUP9	LIN7A_HUM	Unmodified	1432800	1219600	1048100	0	0	0	0	0	0
AIEMERGNFGGSFAGSFGGAGGHAPGVAR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM_HUM	Oxidation (M)	3120700	4440100	2992800	46718	48145	0	0	0	0
AIEMERGNFGGSFAGSFGGAGGHAPGVAR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM_HUM	Oxidation (M);Deam	16490000	14745000	20545000	108880	83838	37759	46645	0	0
AIEMLGGELGSK	FH	P07954	FUMH_HUM	Oxidation (M)	1507500	1250700	1631000	0	156580	0	0	0	0
AIENELLAR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Unmodified	6368900	6519700	6232900	149200	175720	179010	0	0	0
AIEPPPLDAVIEAEHTLR	DHX9	Q08211	DHX9_HUM	Unmodified	65311000	82121000	65198000	0	13744	16301	23535	14520	20915
AIEQADLLQEEDESPR	AP1S1; AP1S1; AP1S	P61966; A0A2R8	AP1S1_HUM	Unmodified	0	738340	714940	62613	79441	100760	0	0	0
AIEQLKEQAATGK	EIF2A; EIF2A; EIF2A	Q9BY44; F8WAE	EIF2A_HUM	Unmodified	349140	424160	543490	0	0	0	0	0	0
AIESMEQQLSELKK	TPR	P12270	TPR_HUMAN	Oxidation (M)	3457500	3816600	3133200	0	0	0	0	0	0
AIETTDIISR	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5_HUM	Unmodified	13388000	15192000	15311000	556330	521750	524540	16597	30170	26627
AIETTDVTR	USP47	Q96K76	UBP47_HUM	Unmodified	0	271980	492300	72026	0	0	0	0	0
AIEVGRENREDYRQIAK	STIP1	P31948	STIP1_HUMA	Unmodified	2272300	1367800	1731300	144240	0	120270	0	0	0
AIEVLSDEHAR	XAB2	Q9HCS7	SYF1_HUMA	Unmodified	476790	571650	709870	0	0	0	0	0	0
AIFATQR	GYS1	P13807	GYS1_HUMA	Unmodified	0	0	0	0	1118900	0	0	0	0
AIFLAAQK	MRPL11	Q9Y3B7	RM11_HUMA	Unmodified	1006500	1267700	1211300	52862	0	0	0	0	0
AIFLAAQKEADLAAQEEAAKK	MRPL11	Q9Y3B7	RM11_HUMA	Unmodified	0	0	0	137890	129740	105740	42031	33920	35553
AIFLADGK	CORO1B; CORO1B;	Q9BR76; F5H390	COR1B_HUM	Unmodified	319280	468940	267940	19156	7358.9	18083	0	0	0
AIFLADGKVFTTGFSR	CORO1B; CORO1B;	Q9BR76; F5H390	COR1B_HUM	Unmodified	9488700	8148100	11925000	85262	69000	52734	69672	42822	11800
AIFLADGKVFTTGFSR	CORO1B; CORO1B;	Q9BR76; F5H390	COR1B_HUM	Methyl (KR)	233470	486960	222830	0	0	0	0	0	0
AIFLADGNVFTTGFSR	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C_HUM	Unmodified	16645000	5611500	14589000	0	0	0	9328.3	0	0
AIFLADGNVFTTGFSR	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C_HUM	Deamidation (N)	2051900	1471500	1186200	0	0	0	0	0	0
AIFLADGNVFTTGFSRMSER	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C_HUM	Oxidation (M)	5153100	5260500	4928800	0	0	0	0	0	0
AIFMIPTNPPPTFR	STK3; STK4; STK4;	Q13188; Q13043;	STK3_HUMA	Oxidation (M)	2555300	3382700	0	17896	0	20552	0	0	0
AIFQTIQNR	IPO7	O95373	IPO7_HUMA	Unmodified	965520	650630	0	0	0	0	0	0	0
AIFRMEDEQLKVWDVIGR	CCS; CCS	O14618; J3KNF4	CCS_HUMAN	Oxidation (M)	497650	417930	418730	0	0	0	0	0	0
AIFTGYYGK	CNP	P09543	CN37_HUMA	Unmodified	2170100	3134200	2958000	60222	53524	109540	0	0	0
AIFTTGQGASAVGLTAYVQR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Unmodified	881590	0	0	0	0	0	0	0	0
AIGDHFYK	PPM1G	O15355	PPM1G_HUM	Unmodified	331290	780230	0	0	0	0	0	0	0
AIGDHFYKR	PPM1G	O15355	PPM1G_HUM	Unmodified	540910	595040	463450	0	0	0	0	0	0
AIGDVFQKPYVSGEADAASR	PPM1F; PPM1F	P49593; B5MCT7	PPM1F_HUM	Unmodified	1212100	0	0	55440	70884	44630	29776	0	0
AIGEELLPR	HIP1	O00291	HIP1_HUMA	Unmodified	1117900	578450	402810	30042	34454	15978	0	0	0
AIGFVVGQTDWEKITDESGHLAEK	YLPM1; YLPM1	P49750; F8VU51	YLPM1_HUM	Unmodified	3506000	2957000	2129500	0	0	0	0	0	0
AIGKDNFTAIPEGTNGVEER	DPYSL3; DPYSL3	Q14195; H0YBT4	DPYL3_HUM	2 Deamidation (N)	622430	610580	780460	47925	43259	36062	0	0	0
AIGKDNFTAIPEGTNGVEER	DPYSL3; DPYSL3	Q14195; H0YBT4	DPYL3_HUM	Deamidation (N)	774330	1271600	861100	134400	162980	170350	0	26185	0
AIGNIELGIR	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Unmodified	2340000	2165600	2761400	73959	55970	79491	0	0	0
AIGPHDVLATLLNNLK	SF3B1; SF3B1	O75533; H7C341	SF3B1_HUM	Unmodified	331950	79181	93457	0	0	0	0	0	0
AIGPHDVLATLLNNLK	SF3B1; SF3B1	O75533; H7C341	SF3B1_HUM	Deamidation (N)	0	158380	256250	0	0	0	0	0	0
AIGPHDVLATLLNNLKVQER	SF3B1; SF3B1	O75533; H7C341	SF3B1_HUM	Unmodified	762640	290010	745310	0	0	0	0	0	0
AIGSASEGAQSSLQEVYHK	PSMA5	P28066	PSA5_HUMA	Unmodified	12185000	8549300	6793600	82386	67129	0	0	0	0
AIGSSPLGSGEGLLGLSPGPNGHSHLLK	RAVER1; RAVER1;	Q8IY67; E9PAU2;	RAVR1_HUM	Deamidation (N)	2491800	2107100	1947300	0	0	0	26304	0	0
AIGSSPLGSGEGLLGLSPGPNGHSHLLK	RAVER1; RAVER1;	Q8IY67; E9PAU2;	RAVR1_HUM	Methyl (KR);Deam	1768800	0	1228400	0	0	0	0	0	0
AIGSTSKPQESPK	XRCC1; XRCC1; XR	P18887; F5H8D7;	XRCC1_HUM	Unmodified	0	0	3771400	0	0	0	0	0	0
AIGTDEDLAHSSIR	NFS1; H0YGN5; H0Y	O9Y697; H0YGN	NFS1_HUMA	Unmodified	4596200	3749900	3832200	369580	458140	340580	0	0	0
AIGVKPPR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1455900	1224700	0	0	0	0	0	0	0
AIGVLTSGGDAQGMNAAVR	PFKP; PFKL	Q01813; P17858	PFKAP_HUM	Oxidation (M)	6634900	3913600	2752800	259680	188240	288840	14707	0	0
AIGVLTSGGDAQGMNAAVR	PFKP; PFKL	Q01813; P17858	PFKAP_HUM	Oxidation (M);Deam	872000	907890	898340	28174	0	32868	0	0	0
AIGYLNTGYQR	A2M	P01023	A2MG_HUM	Unmodified	2601400	2450200	2063500	146150	133990	120520	0	0	31660
AIGYLNTGYQR	A2M	P01023	A2MG_HUM	Deamidation (N)	1161600	634330	1072800	0	0	0	0	0	58659
AIHIQAENGPHLLVEAEQAK	HAPLN1; HAPLN1; I	P10915; D6RG04;	HPLN1_HUM	Deamidation (N)	0	0	1174700	0	0	0	0	0	0
AIHSWLTR	PSMB4	P28070	PSB4_HUMA	Unmodified	1330400	1410800	1687500	0	0	0	0	0	0
AIIDEFEQKLR	NCAPD2	Q15021	CND1_HUMA	Unmodified	1783400	0	0	0	0	0	0	0	0
AIIEDLEPR	HOOK3; HOOK3	Q86VS8; H0YDM	HOOK3_HUM	Unmodified	1836700	0	2010700	0	0	0	0	0	0
AIIESDQEQGR	SCRN1	Q12765	SCRN1_HUM	Unmodified	944930	802080	1063700	0	0	0	0	0	0
AIIESDQEQGRK	SCRN1	Q12765	SCRN1_HUM	Unmodified	1297000	945050	0	0	0	0	0	0	0
AIIIFVPVPQLK	RPS7; RPS7	P62081; B5MCP9	RS7_HUMAN	Unmodified	248650	140960	210900	0	0	0	0	0	0
AIIKPQYVDQIPK	ABCE1; ABCE1; ABI	P61221; H0Y990;	ABCE1_HUM	Unmodified	771230	611670	0	0	0	0	0	0	0
AIIRENEFSFEDNAIR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Deamidation (N)	1705000	2136000	2702300	0	0	0	9995.2	0	11089
AIIRENEFSFEDNAIR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	2 Deamidation (N)	948030	1479200	267210	0	0	0	0	0	0
AIIRENEFSFEDNAIR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Unmodified	0	2064600	2808600	61800	0	0	0	0	0
AIKEKEYEIER	DSP	P15924	DESP_HUMA	Unmodified	1887200	2039100	2057100	45578	93750	53053	0	0	0
AIKELEEWYAR	CLTA; CLTA; CLTA	P09496; C9J8P9;	CLCA_HUMA	Unmodified	1390900	1046200	997420	0	0	0	0	0	0
AIKELEEWYARQDEQLQK	CLTA; CLTA; CLTA	P09496; C9J8P9;	CLCA_HUMA	Unmodified	5860700	8147100	6249100	0	0	0	0	0	0
AIKELGDHVTNLR	FTH1; FTH1; FTH1	P02794; G3V192;	FRIH_HUMA	Unmodified	0	0	3345800	487950	448330	529850	0	0	0
AIKELGDHVTNLRK	FTH1; FTH1; FTH1	P02794; G3V192;	FRIH_HUMA	Unmodified	0	466150	533630	178340	431590	385850	0	0	0
AIKVEQATKPSFESGR	RBMX; RBMX; RBN	P38159; H3BT71;	RBMX_HUM	Unmodified	49189000	50789000	40536000	1321700	1203700	1154200	24777	113750	0
AIKVEQATKPSFESGR	RBMX; RBMX; RBN	P38159; H3BT71;	RBMX_HUM	Methyl (KR)	728940	920350	748310	0	0	0	0	0	0
AILEMEQYIR	NSMCE1; NSMCE1;	Q8WV22; I3L1I3;	NSE1_HUMA	Oxidation (M)	531180	726080	921940	0	0	0	0	0	0
AILGSVER	TARS1; TARS3; TAR	P26639; A2RTX5;	SYTC_HUMA	Unmodified	2047000	1853600	2685700	43988	0	42851	0	0	0
AILILDNDGDRLFAK	COPZ1; COPZ1; COI	P61923; F8W156;	COPZ1_HUM	Unmodified	1190700	293680	490870	0	0	0	0	0	0
AILILDNDGDRLFAK	COPZ1; COPZ1; COI	P61923; F8W156;	COPZ1_HUM	Deamidation (N)	1232600	843800	941310	0	0	0	0	0	0
AILLPDLSEPNNEPLFSPASEVPR	AHCTF1; AHCTF1	Q8WYP5; H7C4S	ELYS_HUMA	Unmodified	171150	198060	242910	0	0	0	0	0	0
AILLPDLSEPNNEPLFSPASEVPR	AHCTF1; AHCTF1	Q8WYP5; H7C4S	ELYS_HUMA	Deamidation (N)	776750	921560	756150	0	0	0	0	0	0
AILQLDSPESAQSMYSFLK	ZNF638	Q14966	ZN638_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
AILQNSWTEVMDLILKPR	PUS7; PUS7	Q96PZ0; E7EUH7	PUS7_HUMA	Oxidation (M);Deam	975380	536670	806300	0	0	0	0	0	0
AILSNEATK	UBA6	A0AVT1	UBA6_HUMA	Unmodified	1657100	1321500	1931300	0	0	0	0	0	0

AILVDLEPGTMDSVR	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A	HUM	Oxidation (M)	814130000	628310000	665560000	19303000	16906000	17575000	3767300	3221400	1500500
AIMAHMTVEEIYKDR	FLOT1; FLOT1; FLO	O75955; A0A140T	FLOT1	HUM	2 Oxidation (M)	1061800	1108700	0	111140	0	0	0	0	0
AIMAQLPQEEK	CTNNA2; CTNNA2;	P26232; A0A0A0	CTNA2	HUM	Oxidation (M)	450740	514300	459510	0	0	0	0	0	0
AIMAQLPQEQK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Oxidation (M)	5126700	4176300	6302600	643850	639670	758840	0	0	0
AIMEMPSFYSHGLPR	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD	HUM	2 Oxidation (M)	5594200	5164000	7023600	882210	632900	878460	61098	51644	82751
AIMTYVSSFYHAFSGAQK	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Oxidation (M)	12964000	3981300	3448600	0	0	0	0	0	0
AIMYEETTYSK	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Oxidation (M)	1574900	953980	771260	0	0	0	0	0	0
AINFNFGYAK	QARS1; QARS1; QAI	P47897; A0A1B0	SYQ	HUMAN	Unmodified	494480	0	0	32455	30968	28592	0	0	0
AINGPTSASGDDISKLQR	FXR1; FXR1; FXR1	P51114; H7C4S4;	FXR1	HUM	Deamidation (N)	1169200	1098200	1427600	172910	76642	80896	0	0	0
AINIADELPR	ABHD11	Q8NFV4	ABHDB	HUM	Unmodified	2231300	2040100	1666800	265660	224410	302900	32448	0	21387
AINIADELPRSR	ABHD11	Q8NFV4	ABHDB	HUM	Unmodified	0	0	0	108990	177590	194300	0	0	13637
AINPINTFTK	ARHGAP1	Q07960	RHG01	HUM	Unmodified	4683500	4549500	4587500	84728	44249	51903	0	22657	20321
AINQGGLTSVAVR	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6	HUMA	Unmodified	3917200	3537100	3564500	109480	125240	108650	0	0	0
AINQGGLTSVAVR	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6	HUMA	Deamidation (N)	862880	841380	581880	59696	0	0	0	0	0
AINQKLGDTPGVSYSDIAAAR	VPS16; VPS16	Q9H269; Q5JUA9	VPS16	HUM	Unmodified	0	0	0	44159	47340	43682	0	0	17110
AINQQTGAFVEISR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	Unmodified	1720100	1494700	1635400	0	0	0	0	0	0
AINQQTGAFVEISR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	Deamidation (N)	2967300	4447400	874450	110760	95720	87334	0	0	0
AINTLNGLR	ELAVL1; ELAVL2; I	Q15717; Q12926;	ELAV1	HUM	Deamidation (N)	15989000	12826000	13550000	139670	137350	117010	0	0	0
AINTLNGLR	ELAVL1; ELAVL2; I	Q15717; Q12926;	ELAV1	HUM	2 Deamidation (N)	1601700	2823400	2855100	0	0	0	0	0	0
AINTLNGLRLQSK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Deamidation (N)	2099700	2168300	2227700	146450	104270	142170	0	0	10786
AINTLNGLRLQSK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	2 Deamidation (N)	3460300	3598000	4472100	85764	68743	57566	0	0	0
AINVLLEGNPDTHSWEMVGK	UBAP2L; UBAP2L; I	Q14157; Q5VU80	UBP2L	HUM	Oxidation (M)	1349000	0	1425700	0	0	0	0	0	0
AINVQEEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	1154500	1050600	1510800	0	0	0	0	0	0
AIPLALEGKDLLAR	DDX56; DDX56; DD	Q9NY93; G3V0G7	DDX56	HUM	Unmodified	2625500	2412100	2954800	19717	8065.9	0	0	0	0
AIPLPIQMYYQQQPVSTSVVR	ARID2; ARID2; ARII	Q68CP9; F8W108	ARID2	HUM	Oxidation (M)	2238200	1208500	1624300	0	0	0	0	0	0
AIPMLVDVLQDTR	DOHH; DOHH	Q9BU89; A0A5F9	DOHH	HUM	Oxidation (M)	239260	141300	0	0	0	0	0	0	0
AIPNNQVLGKIER	EDF1	O60869	EDF1	HUMA	Unmodified	1286600	876800	1148500	0	0	18847	0	0	0
AIPNNQVLGKIER	EDF1	O60869	EDF1	HUMA	Deamidation (N)	3302500	3240400	3699400	0	50842	0	0	0	0
AIPNNQVLGKIER	EDF1	O60869	EDF1	HUMA	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
AIPNQGEILVIR	DNM2	P50570	DYN2	HUMA	Unmodified	0	491510	0	74096	67963	78384	0	12374	0
AIPQLQGYLR	RPL6	Q02878	RL6	HUMAN	Unmodified	26941000	27723000	28868000	450060	275220	246710	46502	0	34622
AIPSDGNFAMR	DDC; DDC; DDC; DI	P20711; A0A087X	DDC	HUMA	Oxidation (M)	3035300	1280000	3797600	0	0	0	0	0	0
AIPSDGNFAMR	DDC; DDC; DDC; DI	P20711; A0A087X	DDC	HUMA	Oxidation (M);Deai	641040	599510	497790	0	0	0	0	0	0
AIPTVNHSGTFSPQAPVPTTVPVVDVR	PKN2; PKN2	Q16513; B1AL79	PKN2	HUMA	Deamidation (N)	1416600	1628200	1371500	0	0	0	0	0	0
AIPVSPSAVEEDEDEDGHTVVATAR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1	HUMAN	Unmodified	1434900	2092300	1209400	807490	648590	733430	0	0	75162
AIQALNGR	PUF60; PUF60; PUF	Q9UHX1; A0A0J5	PUF60	HUM	Deamidation (N)	2340700	0	2140000	0	0	0	0	0	0
AIQALNGRWFAGR	PUF60; PUF60; PUF	Q9UHX1; A0A0J5	PUF60	HUM	Deamidation (N)	1135600	1138700	929700	0	0	11063	0	0	0
AIQAVATNPK	UTP25	Q68CQ4	UTP25	HUM	Unmodified	312380	419310	718160	0	0	0	0	0	0
AIQDPAFSDGIR	HUWE1; HUWE1	Q7Z6Z7; A0A087	HUWE1	HUM	Unmodified	737360	540190	430790	0	0	0	0	0	0
AIQGGTSHHLGQNFSK	EPRS1	P07814	SYEP	HUM	Unmodified	1915700	1554100	1695100	134140	97958	90290	0	0	0
AIQLEYSEAR	PSMD3	O43242	PSMD3	HUM	Unmodified	766060	1062000	894590	33924	48547	76174	0	0	0
AIQLEYSEARR	PSMD3	O43242	PSMD3	HUM	Unmodified	0	703350	1076200	0	0	0	0	0	0
AIQLNPSYIR	TTC1; TTC1	Q99614; H0YB37	TTC1	HUMA	Unmodified	1346000	1286000	970970	0	0	0	0	0	0
AIQLSMQGSSR	ATXN3; ATXN3; AT	P54252; A0A0A0	ATX3	HUMA	Oxidation (M)	4028700	0	2020200	0	0	0	0	0	0
AIQLTYNPDESSKPNMIDAATLK	FGG; FGG; FGG	P02679; C9JC84;	FIBG	HUMA	Oxidation (M);Deai	2085300	1411000	1161000	0	0	0	0	0	0
AIQLTYNPDESSKPNMIDAATLK	FGG; FGG; FGG	P02679; C9JC84;	FIBG	HUMA	Oxidation (M)	1004400	1686500	895490	0	0	0	0	0	0
AIQQFGR	SBNO1; SBNO2; SB	A3KN83; Q9Y2G9	SBNO1	HUM	Unmodified	691220	1448400	1595400	19587	0	0	0	0	0
AIQTLGYFPVGDGDFPHQK	ECPAS; ECPAS; ECI	Q5VYK3; R4GMV	ECM29	HUM	Unmodified	2220700	1539700	2050600	0	0	0	0	0	0
AIRLELQGPR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUMA	Unmodified	15934000	11859000	16782000	1607200	1102000	871660	106100	122840	124840
AIRNIEMTQEDVR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M)	313450	312340	339040	0	0	0	0	0	0
AISAHFDDSSASSLK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW	HUM	Unmodified	686450	1188000	795070	0	0	0	0	0	0
AISEAQESVTK	ZC3H14; ZC3H14; ZI	Q6PJT7; A0A087	ZC3HE	HUM	Unmodified	2472900	2444500	0	0	1695400	0	1921200	1919300	1854400
AISEQTGKELLYK	ACLY; ACLY	P53396; K7ESG8	ACLY	HUMA	Unmodified	1739100	1893300	1805600	91111	83146	80710	0	0	0
AISFVGSNK	ALDH6A1	Q02252	MMSA	HUM	Unmodified	4468000	5220400	3363500	460370	362410	47315	0	0	0
AISFVGSNKAGEYIFER	ALDH6A1	Q02252	MMSA	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
AISGLEQDQPAR	ZPR1; ZPR1; ZPR1	O75312; H7C0E5;	ZPR1	HUMA	Unmodified	717320	861210	778490	0	0	0	0	0	0
AISHEHSPSDLEAHFVPLVK	PPP2R1A; PPP2R1A	P30153; C9J9C1	2AAA	HUMA	Unmodified	7164000	7688700	4377100	0	0	0	0	0	0
AISHEHSPSDLEAHFVPLVKR	PPP2R1A; PPP2R1A	P30153; C9J9C1	2AAA	HUMA	Unmodified	6183000	6329200	7076500	0	0	0	0	0	0
AISKDHLYGTLDPNTR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	662670	618820	298970	12693	0	24955	0	0	0
AISLLPSPHLDEVGISR	FASTKD1	Q53R41	FAKD1	HUM	Unmodified	0	0	960110	0	0	0	0	0	0
AISSDMFGREVDAEYEAR	ARFGAP2; ARFGAP	Q8N6H7; E9PMU	ARFG2	HUM	Oxidation (M)	950680	1835100	1618800	0	18665	0	0	0	0
AISSPTVSR	TPPP	O94811	TPPP	HUMA	Unmodified	616810	2071100	2045800	0	0	0	0	0	0
AISSSAISK	CPSF7; CPSF7	Q8N684; F5H669	CPSF7	HUM	Unmodified	5906700	6083100	7917400	181810	214250	195500	0	0	0
AISSSAISR	CPSF6; CPSF6	Q16630; F8WJN3	CPSF6	HUM	Unmodified	13781000	12503000	12565000	1364300	1230500	1122600	66289	65715	54222
AITANLHTNELMEMQPILNTSLHR	COL24A1; COL24A1	Q17RW2; F8WDA	COOA1	HUM	Oxidation (M);Deai	0	0	0	0	0	0	698040	0	97832
AITFFTEDDKPLLR	DDX52; DDX52	Q9Y2R4; A0A087	DDX52	HUM	Unmodified	893150	983110	1185800	0	0	0	0	0	0
AITFLQSATR	RFC4; RFC4; RFC4	P35249; C9JZI1; I	RFC4	HUMA	Unmodified	886160	721220	702820	0	0	0	0	0	0
AITGASLADIMAK	RPL24; RPL24; RPL	P83731; C9JNW5	RL24	HUMA	Oxidation (M)	22704000	19932000	19902000	669370	703380	645190	0	0	58501
AITGASLADIMAKR	RPL24; RPL24; RPL	P83731; C9JNW5	RL24	HUMA	Oxidation (M)	0	615600	748580	0	0	0	0	0	0
AITGFDDPFSGK	DSP	P15924	DESP	HUMA	Unmodified	5460800	7210900	5311000	80935	97284	170540	0	0	0
AITGIQAFTASK	GCDH	Q92947	GCDH	HUM	Unmodified	14968000	12503000	16172000	1496300	1102900	1263600	193180	241800	233510
AITHLNNNFMFGQK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M);Deai	7911800	9235200	7297400	187500	106210	241290	0	0	0
AITHLNNNFMFGQK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M);2 De	9767400	8211000	7349500	136850	189020	223180	0	0	0
AITHLNNNFMFGQK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M);3 De	921490	595550	2038500	0	21906	0	0	0	0
AITHLNNNFMFGQK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M)	0	985560	0	0	0	0	0	0	0
AITIAGIPQSIIECVK	PCBP2; PCBP2; PCB	Q15366; F8VZX2;	PCBP2	HUM	Unmodified	1190200	949910	918340	0	0	0	0	0	0
AITIAGVPQSVTECVK	PCBP1	Q15365	PCBP1	HUM	Unmodified	3350200	2469200	3411500	43865	30058	48879	0	0	0
AITIANQTNCPLYITK	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2	HUM	Deamidation (N)	928950	580140	808920	0	0	0	0	0	0
AITIANQTNCPLYITK	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2	HUM	Unmodified	0	0	1971200	43648	38114	40805	13940	0	0
AITIASQTNCPLYVTK	DPYSL3	Q14195	DPYL3	HUM	Unmodified	369180	616090	418650	37344	50573	0	0	9907.6	16786
AITSAYYR	RAB25; RAB11A; R	P57735; P62491;	RAB25	HUM	Unmodified	14604000	0	0	50301	78866	59300	7016	17546	0
AITTGLQEYVEAVSFQHFIK	TSNAX; TSNAX; TS	Q99598; Q5VVQ1	TSNAX	HUM	Unmodified	1123900	0	945780	0	0	0	0	0	0
AITVFSPDGHLFQVEYAQEAVK	PSMA7; PSMA8; PSI	O14818; Q8TAA3	PSA7	HUMA	Unmodified	7509300	5361300	6109100	0	0	0	0	0	0
AITVFSPDGHLFQVEYAQEAVKK	PSMA7; PSMA8; PSI	O14818; Q8TAA3	PSA7	HUMA	Unmodified	4485700	4644800	2182600	0	0	0	0	0	0
AITYQIAK	UTP3	Q9NQZ2	SAS10	HUM	Unmodified	809740	767460	694020	30213	27418	28611	0	0	0
AIVAIENPADVSVISSR	RPSA; RPSA; RPSA;	P08865; A0A0C4I	RSSA	HUMA	Unmodified	11956000	12530000	2666900	145770	159390	13672	56552	0	0
AIVAIENPADVSVISSRNTGQR	RPSA; RPSA; RPSA	P08865; F8WD59;	RSSA	HUMA	Deamidation (N)	6855700	5825500	6824800	0	0	0	0	0	0
AIVAIENPADVSVISSRNTGQR	RPSA; RPSA; RPSA	P08865; F8WD59;	RSSA	HUMA	Unmodified	0	6037200	1104300	0	0	0	0	0	0
AIVEFLSNLAR	CHAF1B	Q13112	CAF1B	HUM	Unmodified	0	495800	0	0	0	0	0	0	0
AIVICPTDEDLKDR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	3563200	0	0	194460	183090	205550	0	0	0
AIVPLEAR	TCERG1; TCERG1; T	O14776; A0A7P0	TCRG1	HUM	Unmodified	3288800	3826500	3539600	209360	180080	194080	0	27859	0
AIVQLVNER	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Unmodified	4793200	4069100	3352500	0	0	0	0	0	0
AIVQLVNERQPQAR	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Deamidation (N)	5704300	4261100	4712100	0	0	0	0	0	0
AIVQLVNERQPQAR	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Unmodified	4201300	4125600	5195300	0	9905.7	0	0	0	0
AIVWGMQTR	ACLY	P53396	ACLY	HUMA	Oxidation (M)	1554400	1721000	2301800	231030	238370	19827	0	0	0
AIWNVINWENVTER	SOD2	P04179	SODM	HUM	Unmodified	301300	241770	0	0	0	0	0	0	0
AIYFDGDFGQIVR	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM	HUM	Unmodified	5705100	4244200	5356300	0	0	0	0	0	0
AIYHDLEQSIR	PACSIN2; PACSIN2	Q9UNF0; A0A0U	PACN2	HUM	Unmodified	757590	794550	1116900	0	0	0	0	0	0
AIYQATYR	PSMB5	P28074	PSB5	HUMA	Unmodified	4808700	5805400	1519200	55552	353040	164180	0	0	0
AKAEQQAQEDEEPEWR	RALBP1	Q15311	RBP1	HUMA	Unmodified	762490	880170	906060	0	16395	31192	0	0	0
AKAGAGSATLSMAYAGAR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Oxidation (M)	1464200	1366100	1266400	82341	0	0	0	0	0
AKASLNGADIYSGCCTLK	HNRNPL; HNRNPL;	P14866; B4DVF8;	HNRPL	HUM	Deamidation (N)	1352500	529490	1065800	0	0	0	0	0	0
AKDINQEVYNFLATAGAK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Unmodified	1711000	2012800	1944600	0	0	0	0	0	0
AKDINQEVYNFLATAGAK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Deamidation (N)	1100000	1687000	888360	0	0	0	0	0	0
AKDIVPGDIVEIAVGDKVPADIR	ATP2A2	P16615	AT2A2	HUM	Unmodified	5507600	8728200	5908900	0	0	0	0	0	0
AKDLQDELAGNSEQR	SMC3	Q9UQE7	SMC3	HUMA	Deamidation (N)	575330	586480	893200	0	20033	19754	0	0	22668
AKDPFAHLPK	EEF1G	P26641	EF1G	HUMA	Unmodified	1565000	2512100	15195000	88835	99596	80811	0	0	0
AKDQTKAQAAAPASVPAQAPK	RPL29; RPL29	P47914; A0A3B3I	RL29	HUMA	Unmodified	938640	0	0	811300	341070	332740	0	0	0
AKEAAEQDVEK	RPL13; RPL13	P26373; J3KS98	RL13	HUMA	Unmodified	4048200	3553000	3876500	130750	162840	139200	0	0	0
AKEAQDDLVK	EZR; EZR	P15311; E7EQR4	EZRI	HUMA	Unmodified	1457900	1356800	1856600	248700	265070	274770	0	0	0
AKEFTNVYIK	PABPC4; PABPC1; P	Q13310; P11940;	PABP4	HUM	Unmodified	5509400	6039600	6022200	64082	106860	0	0	0	0
AKEILQEEEDLAEIVQLVGK	ATP6V1A	P38606	VATA	HUM	Unmodified	115070	0	109220	0	0	0	0	0	0
AKELEDSLQQLLR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1849400	0	2626400	0	0	0	0	0	0
AKELLGQGLLLR	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM	Unmodified	8011000	6888100	6290900	115550	97728	71159	18694	14535	0
AKELNVMFIETSAK	RAB6A	P20340	RAB6A	HUM	Oxidation (M)	1139100	1106100	959070	0	52119	0	0	0	0
AKELSVMFIETSAK	RAB6B	Q9NRW1	RAB6B	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
AKESWEMNSEEKLEQSTIVKER	FKBP4	Q02790	FKBP4	HUM	Oxidation (M);Deai	0	1270000	1598000	0	0	0	0	0	0
AKFEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMAN	Oxidation (M)	160480000	167230000	130540000	6609600	5927200	5366700	673280	611010	563110
AKFEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMAN	Oxidation (M);Deai	72421000	58697000	59054000	1066000	1099000	908540	224900	228940	122840
AKFEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMAN	Oxidation (M);Meti	1202300	1630700	1371000	0	0	0	0	0	0
AKFEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMAN	Oxidation (M);Meti	2442700	13407000	10703000	822330	130210	0	0	0	27921
AKFYPEDVSEELIQDITQR	MSN; MSN	P26038; V9GZ54	MOES	HUM	Unmodified	726590	219160	896220	0	0	0	0	0	0
AKGEIPEVAFMK	NXF1; NXF1	Q9UBU9; H0YDU	NXF1	HUMA	Oxidation (M)	1642500	1692200	1984400	0	136990	159550	0	11160	0
AKGILFVGSGVSGGEEGAR	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUMA	Unmodified	10671000	9434100	10006000	391620	58108	385370	0	0	0
AKGILFVGSGVSGGEEGAR	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUMA	Methyl (KR)	1484700	1512800	1131300	0	18280	0	0	0	0
AKGSETPGATPGSK	SF3B1	O75533	SF3B1	HUM	Unmodified	1786100	679520	1911600	168740	156670	136820	0	0	0
AKIAEQVASFQEEK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Methyl (KR)	544840	540090	0	0	17608	0	0	0	0
AKIDDPTDSKPEDWDKPEHIPDPDAK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	5981300	4261600	5726100	55265	0	0	0	0	0
AKIDDPTDSKPEDWDKPEHIPDPDAK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Methyl (KR)	2984200	2075600	0	0	0	0	0	0	0
AKIDNYIPIF	ATP6V0D1; ATP6V0	P61421; R4GN72;	VA0D1	HUM	Unmodified	1154800	1296100	1669500	30551	0	19266	38651	35054	0
AKIELLGSYDPQK	ACP1	P24666	PPAC	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
AKISSPTETER	S100A11	P31949	S10AB	HUM.	Acetyl (Protein N-t	0	0	0	1081500	979150	1242100	0	559770	0

AKKDDTDDEIAK	CANX; CANX; CAN:	P27824; A0A7P07	CALX_HUM	Unmodified	1045800	713620	787700	0	0	0	0	0	0
AKKLDKENLSDER	UPF3B	Q9BZI7	REN3B_HUM	Methyl (KR);Deam	639510	710110	597680	0	0	0	0	0	0
AKKVEDMMKK	EEF2	P13639	EF2_HUMAN	2 Oxidation (M)	0	357690	315030	0	0	0	0	0	0
AKLAEQAER	SFN; YWHAB; YWH	P31947; P31946;	1433S_HUMA	Unmodified	2065800	2187700	2172000	275060	259520	188390	0	9950.3	12752
AKLAEQAERYDDMAAAMK	YWHAB; YWHAB; Y	P31946; Q4VY20;	1433B_HUM	2 Oxidation (M)	2245000	784940	2108400	190860	101440	77475	0	0	0
AKLAEQAERYEDMAAFMK	SFN	P31947	1433S_HUMA	2 Oxidation (M)	2974800	2567400	2350600	0	0	0	0	0	0
AKLDSSETTMVK	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1_HUMA	Oxidation (M)	889780	0	1563900	58588	0	75950	0	0	0
AKLEQLFQDEVAK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1740400	1162100	1261300	67667	0	0	0	0	0
AKLLEEMDQEFGVSTLVEEEFGQR	SART1	O43290	SNUT1_HUM	Unmodified	0	949940	536930	382730	552020	777180	0	640580	0
AKLQIELGK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Unmodified	625280	594010	727830	23981	0	0	0	0	0
AKMMLDDIVSR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	2 Oxidation (M)	4043600	2670200	2178100	49762	44358	51911	0	0	0
AKMQASIEK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM_HUMA	Oxidation (M)	1838600	2340400	2640200	86566	63859	21832	0	0	0
AKNEILDEVISLSQVTPK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Deamidation (N)	326490	247400	0	0	0	0	0	0	0
AKNTVVATGGYGR	SDHA; SDHA; N/A	P31040; D6RFM5	SDHA_HUMA	Deamidation (N)	406690	339330	2961200	0	167570	132680	0	0	0
AKPAEAPAAAAPK	DLST; DLST	P36957; Q86SW4	ODO2_HUMA	Unmodified	4263500	7012200	7061100	679180	688340	525430	0	0	51161
AKPAMPQDSVPSPR	ACLY	P53396	ACLY_HUMA	Oxidation (M)	4667000	4121300	3553000	329160	514760	393190	0	0	0
AKPAQGAK	ANXA6; ANXA6; AN	P08133; E5RJU8;	ANXA6_HUM	Acetyl (Protein N-t	0	0	7170.2	894240	588310	6343200	0	0	0
AKPFLSNSLGGQDDTR	SH3PXD2B	A1X283	SPD2B_HUM	Deamidation (N)	1011300	867790	777180	20796	0	0	0	0	0
AKPLMELIER	ECE1; ECE1; ECE1	P42892; B4DKB2	ECE1_HUMA	Oxidation (M)	1434100	1062100	0	0	0	0	0	0	0
AKPLTDQEK	PYGL; PYGL	P06737; E9PK47	PYGL_HUMA	Acetyl (Protein N-t	846790	732670	731530	0	0	0	0	0	0
AKPLTDQEKR	PYGL; PYGL	P06737; E9PK47	PYGL_HUMA	Acetyl (Protein N-t	916010	929900	813920	49319	74046	49367	0	0	0
AKPLTDSEK	PYGB	P11216	PYGB_HUMA	Acetyl (Protein N-t	2873400	1861500	2160800	544940	0	567450	0	0	0
AKPPPGGGEQEPPPPPAPQDVEMKEEAATGGGSTGEADGK	PSMD3	O43242	PSMD3_HUM	Oxidation (M)	1473900	0	1288900	0	0	0	0	0	0
AKPQVVVAPVLMSK	PAIP1; PAIP1; PAIP1	Q9H074; D6RJ02;	PAIP1_HUMA	Acetyl (Protein N-t	5824200	6377200	5101300	497590	529240	503190	63976	76702	68895
AKPYEGSILEADCDILIPAASEK	GLUD1	P00367	DHE3_HUMA	Unmodified	4235700	1405400	4416500	36279	16783	0	0	0	29699
AKQAATMSEVEWR	SRP68	Q9UHB9	SRP68_HUM	Oxidation (M)	729560	1292900	1010400	0	0	0	0	0	0
AKQEPEVNGGSGDAVPSGNEVSENMEEEAENQAESR	NASP; NASP; NASP	P49321; Q5T624;	NASP_HUMA	Oxidation (M);3 De	1412000	0	1311300	0	0	0	0	0	0
AKQEPEVNGGSGDAVPSGNEVSENMEEEAENQAESR	NASP; NASP; NASP	P49321; Q5T624;	NASP_HUMA	Methyl (KR);3 Dea	981690	1053600	1287100	0	0	0	0	0	0
AKQIVWNGPVGVFEWEAFAR	PGK1	P00558	PGK1_HUMA	Unmodified	442150	282980	492460	0	0	0	0	0	0
AKQIVWNGPVGVFEWEAFAR	PGK1	P00558	PGK1_HUMA	Deamidation (N)	698120	573030	1503600	0	0	0	0	0	0
AKQTLENERGELANEVK	MYH9	P35579	MYH9_HUM	Unmodified	723800	2028700	720240	0	0	0	0	0	0
AKQVVSVVQDEEVGLPFEASPESPPPASPDGVTEIR	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	1817800	0	1991800	0	0	0	0	0	0
AKREQEVTVLK	MYH11	P35749	MYH11_HUM	Unmodified	0	0	0	0	0	0	257580	218630	278490
AKRLEEIPLIK	EIF3A	Q14152	EIF3A_HUMA	Unmodified	1662900	1272700	2181700	111070	79924	89436	0	0	0
AKSDLLGKPLGPR	RAVER1; RAVER1;	Q8IY67; E9PAU2:	RAVR1_HUM	Unmodified	790230	704190	1524100	79120	83293	154180	0	0	0
AKSHLEVPLEENVNRR	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124_HUM	Unmodified	0	610420	198340	0	0	0	0	0	0
AKSPTPESSTIASYVTLR	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5_HUM	Unmodified	462600	418310	391140	0	0	0	0	0	0
AKTALPAQSAATLPAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	665760	504480	602590	139370	136050	139060	25772	34759	0
AKTDAGGEDAILQTR	ATG3	Q9NT62	ATG3_HUMA	Unmodified	452670	846560	367270	56778	67765	50466	0	0	0
AKTGGTVSDQALLFGDDDAGEGPSSLIR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Unmodified	572420	549880	6533000	0	0	0	0	0	0
AKTGTDKTLVK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	903370	987800	1016700	0	0	0	0	0	0
AKTGTDKTLVKEVVQNFAK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	2520800	5674800	9493400	0	0	0	0	0	0
AKTQLTSMLMMNLESRPVIFEDVGR	PMPCA; PMPCA	Q10713; Q5SXN9	MPPA_HUM	3 Oxidation (M)	2960500	0	2158800	0	0	0	0	0	0
AKTQTPPVSPAPQPTEERLPSSPVYEDAASFK	CTTN; CTTN; CTTN	Q14247; H0YEV2	SRC8_HUMA	Unmodified	2451200	2681200	1971100	91213	92652	82515	0	0	0
AKVEFNIR	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	2415700	2553900	3635500	0	0	0	0	0	0
AKVEQVLSLEPQHELK	VAPB; VAPB	O95292; E5RK64	VAPB_HUMA	Acetyl (Protein N-t	13222000	9980000	10107000	102100	0	30924	64089	19294	42725
AKVEQVLSLEPQHELK	VAPB; VAPB	O95292; E5RK64	VAPB_HUMA	Acetyl (Protein N-t	1418900	833460	1498500	16619	0	0	0	0	0
AKVGAAEEELQK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	2168200	1948300	2096400	114430	147970	145370	0	0	0
AKWEMPFDPQDTHQSR	SERPINA3; SERPIN/	P01011; G3V595	AACT_HUMA	Oxidation (M)	1210900	1973600	1711700	0	0	0	0	0	0
AKWGEGDPR	AHSA1; AHSA1	O95433; G3V3W5	AHSA1_HUM	Acetyl (Protein N-t	0	0	0	203220	330020	282150	0	0	0
AKYIYDSAFHPDTGEKMILIGR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0:	SFXN1_HUM	Oxidation (M)	9424500	10074000	12083000	36435	0	0	0	0	0
AKYPIVGYTAR	NENF	Q9UMX5	NENF_HUMA	Unmodified	4662000	5837600	4117200	126500	110440	93752	0	0	0
AKYPSLGQKPGGSDFLMK	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA_HUMA	Oxidation (M)	0	1962100	1423200	0	0	0	0	0	0
ALAAAGYDVEK	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Unmodified	20221000	19113000	18112000	87916	79959	80728	38303	0	0
ALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Unmodified	6129600	6695400	5568500	0	0	0	0	0	0
ALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Deamidation (N)	41227000	47734000	63195000	0	265840	0	0	0	0
ALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	2 Deamidation (N)	28173000	39877000	23971000	0	0	0	0	0	0
ALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Methyl (KR);Deam	3361100	2483700	3197200	0	0	0	0	0	0
ALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Methyl (KR)	937410	890880	636710	0	0	0	0	0	0
ALAAAGYDVEKNNSRIK	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	2 Deamidation (N)	5044500	7441300	8120100	0	0	0	0	0	0
ALAAAGYDVEKNNSRIK	H1-3; H1-4; H1-1; H1	P16402; P10412; (	H13_HUMAN	Deamidation (N)	504630	889300	1568900	0	0	0	0	0	0
ALAAAMNAGLR	N/A	N/A	N/A	Oxidation (M);Meth	0	0	0	0	54205	61448	40712	48372	42062
ALAAEEIR	WRNIP1	Q96S55	WRIP1_HUM	Unmodified	2479700	325610	517360	177540	180160	197250	0	0	0
ALAAGADSPK	TBC1D10B	Q4KMP7	TB10B_HUM	Unmodified	764290	552700	989860	0	0	0	0	0	0
ALAAQLPVLPR	FAHD2A; FAHD2A	Q96GK7; C9JGM4	FAH2A_HUM	Unmodified	860340	812530	835100	27852	0	0	0	0	0
ALAAVPSAGSVQR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	6033700	6024300	6019500	192900	178880	207610	0	0	0
ALADDDFLTVTGK	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4_HUM	Unmodified	6088500	5521200	6920700	27580	0	37061	0	0	0
ALADDDFLTVTGKTVR	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4_HUM	Methyl (KR)	0	0	906050	0	0	0	0	0	0
ALADENEFVRDTALR	GCN1	Q92616	GCN1_HUMA	Unmodified	0	539410	1136200	0	0	0	0	0	0
ALADEREVVQKKTFTK	SPTB	P11277	SPTB1_HUM	2 Methyl (KR)	3477400	1066400	4923500	0	0	0	0	0	0
ALADVATVLGR	NCSTN; NCSTN	Q92542; H0Y6T7	NICA_HUMA	Unmodified	442990	1205600	0	0	0	0	0	0	0
ALADYIR	ERP44	Q9BS26	ERP44_HUM	Unmodified	7862000	7254300	7689200	268160	227330	188100	18712	0	0
ALAEEAAK	LAMC1	P11047	LAMC1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
ALAEGGSILSR	LAMB2	P55268	LAMB2_HUM	Unmodified	839080	1024100	1047400	105610	97406	106340	62734	0	54280
ALAEGQQR	EDC4	Q6P2E9	EDC4_HUMA	Unmodified	0	947220	0	0	0	0	0	0	0
ALAEGVLLR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Unmodified	16096000	13258000	12644000	132630	136710	183270	23303	18781	18117
ALAEIAKAELDDTPMR	SFPQ	P23246	SFPQ_HUMA	Oxidation (M)	16108000	11613000	7879700	98441	68339	141740	0	0	0
ALAEIAKAELDDTPMRGR	SFPQ	P23246	SFPQ_HUMA	Oxidation (M)	18795000	18892000	22586000	164450	139750	168810	0	0	0
ALAENSGVK	CCT8; CCT8	P50990; H7C2U0	TCPQ_HUMA	Unmodified	2051800	1261800	3479500	0	0	0	0	0	0
ALAENSGVKANEVISK	CCT8; CCT8	P50990; H7C2U0	TCPQ_HUMA	2 Deamidation (N)	605730	532970	474100	0	0	0	0	0	0
ALAENSGVKANEVISK	CCT8; CCT8	P50990; H7C2U0	TCPQ_HUMA	Deamidation (N)	0	886210	0	0	0	0	0	0	0
ALAETGIAVPSYYNPAAVNPMK	RSRC2	Q7L4I2	RSRC2_HUM	Oxidation (M)	0	0	3076800	0	11263	0	0	0	0
ALAEVDVISLEQGKKEQIER	WDR46	O15213	WDR46_HUM	Unmodified	0	1539400	2085900	0	0	0	0	0	0
ALAFHPIEPVLITASEDHTLK	STRN	O43815	STRN_HUMA	Unmodified	1528900	1730300	2366600	0	0	0	0	0	0
ALAFHPVEPVLVTASEDHTLK	STRN3	Q13033	STRN3_HUM	Unmodified	1255100	1136700	1450100	0	0	0	0	0	0
ALAFNGVMFGDRPLK	SREK1	Q8WXA9	SREK1_HUM	Oxidation (M);Deai	0	1058600	1602300	36022	0	0	0	0	0
ALAGDVRDWASAIR	QSOX2	Q6ZRP7	QSOX2_HUM	Unmodified	3588500	805420	0	0	0	0	0	0	0
ALAGVTYAAK	BAIAP2; BAIAP2; BA	Q9UQB8; I3L327;	BAIP2_HUM	Unmodified	385810	538720	422370	0	0	0	0	0	0
ALAIYEGQLGPDNPNVAR	KLC4; KLC4	Q9NSK0; H7C4M	KLC4_HUMA	Unmodified	3241300	0	0	111200	0	0	0	19978	0
ALALWDKLFNLK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	470700	0	0	0	0	0	0	0	0
ALANSKTIAEIFGNPNYLR	PSMD5	Q16401	PSMD5_HUM	Deamidation (N)	1129900	1313400	1469500	0	0	0	0	0	0
ALAPEYAK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	25112000	21631000	17435000	2142200	1626500	2085800	0	0	0
ALAPEYAKAAGK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Methyl (KR)	963030	1222800	1562800	41571	40526	53095	0	0	0
ALAPTWEQLALGLEHSETVK	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	6448200	3304400	3822400	0	0	0	0	0	0
ALAQEDQGAGEVER	SPTBN2	O15020	SPTN2_HUM	Unmodified	404760	0	428040	89236	103920	0	0	0	0
ALAQLSLSR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB_HUMA	Unmodified	4036300	3410400	4051500	117540	72392	85169	20911	17118	19363
ALASGTEASSTDPGAPGGPGGAEGPMAK	UBE2S	Q16763	UBE2S_HUM	Oxidation (M)	1997100	2427900	1655500	0	0	0	0	0	0
ALASIDSK	VCL	P18206	VINC_HUMA	Unmodified	2070200	2110800	2198900	182280	200920	164330	0	0	0
ALASIDSKLNQAK	VCL	P18206	VINC_HUMA	Deamidation (N)	335190	314480	394440	84836	61402	106920	0	21085	29498
ALASIDSKLNQAK	VCL	P18206	VINC_HUMA	Unmodified	1839000	1530800	2130200	274410	192540	148690	44658	30132	64371
ALASLATATLESVVQER	POLR3C; POLR3C	Q9BUI4; E9PHH9	RPC3_HUMA	Unmodified	707320	399110	493250	0	0	0	0	0	0
ALASQLQDSLKDLK	VCL	P18206	VINC_HUMA	Unmodified	4880700	4198300	3665300	14120	7259.2	0	0	0	0
ALASQLQDSLKDLKAR	VCL	P18206	VINC_HUMA	Unmodified	1097400	1094100	916650	0	0	0	0	0	0
ALATHPGISFYEEPR	GTF3C1	Q12789	TF3C1_HUM	Unmodified	3967500	4223800	2864600	47758	0	31911	0	0	0
ALAVGGLGSIIR	ARPC5L	Q9BPX5	ARP5L_HUM	Unmodified	2740500	2979000	3594900	0	0	0	0	0	0
ALAVNPRDPPSWSVLAGHSR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	752350	798420	0	0	0	0	0	0	0
ALAVSDLNR	PC	P11498	PYC_HUMAN	Unmodified	2058200	2034900	2804700	321570	262830	274490	0	0	0
ALAVVYGPHEIR	EXOSC4; EXOSC4	Q9NPD3; E9PPI9	EXOS4_HUM	Unmodified	1327100	1599700	1762000	0	0	0	0	0	0
ALAYFEQLK	XPOT; XPOT; XPOT	O43592; F8WDU6	XPOT_HUMA	Unmodified	754570	637910	767860	0	28364	89564	0	0	0
ALCATRQEPLLIGSTK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	926660	1346900	1254300	184260	182960	148630	118920	115960	105080
ALDAAAGITR	REEP6; REEP6	Q96HR9; A8MXN	REEP6_HUM	Unmodified	545310	744830	0	973990	844680	905350	95330	134210	91800
ALDAAFYK	RO60; RO60	P10155; G5E9R9	RO60_HUMA	Unmodified	685440	721900	721940	0	0	0	0	0	0
ALDDFVLGSAR	PRAF2; PRAF2	O60831; A6NP52	PRAF2_HUM	Unmodified	13802000	13641000	12881000	494270	610870	476060	75789	49609	44409
ALDDISESIK	REXO2; REXO2; RE	Q9Y3B8; F5GYG	ORN_HUMA	Unmodified	0	489690	285500	0	0	0	0	0	0
ALDDISESIKELQFYR	REXO2; REXO2; RE	Q9Y3B8; F5GYG	ORN_HUMA	Unmodified	1332900	1262400	1405600	0	0	0	0	0	0
ALDDMISTLK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG_HUMA	Oxidation (M)	1574600	2185200	3668000	0	0	0	0	0	0
ALDDMISTLKK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG_HUMA	Oxidation (M)	5910300	6128700	5569300	87316	81286	76765	0	0	0
ALDEATKYALER	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	12735000	12886000	12085000	0	0	0	0	0	0
ALDEGDIALLK	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7_HUMA	Unmodified	9544700	10113000	8710900	394150	316280	303350	0	0	0
ALDEGDIALLKTYGQSTYSR	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7_HUMA	Unmodified	0	2984900	0	0	0	0	0	0	0
ALDEMKQQR	PSPC1	Q8WXF1	PSPC1_HUM	Oxidation (M)	655480	854070	915590	46433	0	68371	0	0	0
ALDENAKLTQQLEEERIQHQQK	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	1205400	1462900	1132700	0	0	0	0	0	0
ALDEVTSSQPPPLPPPPPPAQETQEPSPILDSEETR	DBN1; DBN1	Q16643; D6R9Q9	DREB_HUMA	Unmodified	2025000	0	0	0	0	0	0	0	0
ALDEYYDKHFTEFVPLR	ATP6V1A	P38606	VATA_HUM	Unmodified	4155500	2532300	4001200	0	0	0	0	0	0
ALDFAVGEYNK	CST3	P01034	CYTC_HUMA	Unmodified	954280	1409600	1103300	124660	155090	181320	51328	48324	0
ALDFIASK	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4_HUM	Unmodified	3156600	3738100	3308600	35477	33120	0	0	0	0
ALDIAENEMPGLMR	AHCY	P23526	SAHH_HUMA	2 Oxidation (M)	10073000	10235000	7186200	837380	1341900	539180	0	0	25912
ALDIAENEMPGLMR	AHCY	P23526	SAHH_HUMA	2 Oxidation (M);De	6917100	6996600	6009800	201620	240080	320600	0	0	0
ALDIDLDKPLADSEK	AP3D1; AP3D1	O14617; A0A2R8	AP3D1_HUM	Unmodified	660890	857960	1217500	0	0	10122	0	0	0
ALDIDLDKPLADSEKLPIQK	AP3D1; AP3D1	O14617; A0A2R8	AP3D1_HUM	Unmodified	1220100	1381400	1481400	0	0	0	0	0	0
ALDIPLVK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Unmodified	3211700	1980800	1820600	141310	79019	94777	0	0	0
ALDKLDGTEINGR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6_HUM	Deamidation (N)	17310000	13694000	14801000	832060	881000	556130	0	0	0

ALDKLDGTEINGRNIR	SRSF6; SRSF6; N/A;	Q13247; A0A590(	SRSF6	HUM/	Deamidation (N)	8629600	3814600	7506800	542280	509670	494250	42862	50198	32921
ALDLDSSCK	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	Unmodified	0	998230	771110	0	137090	118520	0	0	0
ALDLDSSCKEAADGYQR	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	Unmodified	4625000	5318500	3607000	358760	223050	252820	0	0	0
ALDLFSDNAPPPELLEINEDIAKR	PDIA6	Q15084	PDIA6	HUM/	Unmodified	357810	0	46359	0	0	0	0	0	0
ALDLLDR	MAPK3; MAPK3; M	P27361; B3KR49;	MK03	HUMA	Unmodified	1852900	1338300	1653400	71985	59880	58446	0	0	0
ALDMLDAEK	XPO5	Q9HAV4	XPO5	HUMA	Oxidation (M)	953110	1085800	766970	0	0	0	0	0	0
ALDMSYDHKPEDEVELAR	PPM1G	O15355	PPM1G	HUM	Oxidation (M)	1066800	6634000	814130	140360	0	156930	0	0	0
ALDPAAAAYLFQR	NCOR1; NCOR1	O75376; E7EVK1	NCOR1	HUM	Unmodified	2480800	2181200	2995000	58702	49269	46712	0	0	12022
ALDPADQHLR	CMC1	Q7Z7K0	COXM1	HUM	Acetyl (Protein N-t	4164900	3994500	4175400	311990	0	0	0	0	0
ALDPAFKIEDPYSPR	LAMB1; LAMB1; L/	P07942; A0A7I2V	LAMB1	HUM	Unmodified	2045300	0	2106800	187200	210680	178360	0	0	0
ALDPMMER	STK3; STK3	Q13188; A0A087)	STK3	HUMA	2 Oxidation (M)	657090	0	416260	0	0	0	0	0	0
ALDQFVNFSEQK	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	1877300	1020800	0	0	0	0	0	0	0
ALDQFVNFSEQKEK	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	1485200	1398700	1183000	0	14510	0	0	0	0
ALDQSDNDMSAVYR	GLYR1; GLYR1	Q49A26; K7EMM	GLYR1	HUM	Oxidation (M);Deai	472360	564880	453780	74506	67583	0	0	0	0
ALDTLIQSGPALSHLVSQTTAQMGQPQAPMGSYQR	NCOA5	Q9HCD5	NCOA5	HUM	2 Oxidation (M)	8974900	0	12989000	0	0	0	0	0	0
ALDTMNFDVIK	PABPC4; PABPC1; F	Q13310; P11940;	PABP4	HUM	Oxidation (M)	18162000	17447000	19708000	676960	645760	683670	0	23336	30890
ALDTMNFDVIK	PABPC4; PABPC1; F	Q13310; P11940;	PABP4	HUM	Oxidation (M);Deai	18020000	13835000	12003000	320100	265120	321650	0	0	0
ALDTMNFDVIKGKPVR	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1	HUM	Oxidation (M)	593030	0	559880	157460	83462	106130	0	0	0
ALDTTDMER	SUPT6H	Q7KZ85	SPT6H	HUM	Oxidation (M)	1175600	1435000	1524800	0	0	0	0	0	0
ALDTVLFGPPLLTR	STIM1; STIM1; STIM	Q13586; E9PNJ4;	STIM1	HUM	Unmodified	179180	112970	138920	0	0	0	0	0	0
ALDVIQAGK	DNAJC8	O75937	DNJC8	HUM	Unmodified	0	0	638160	0	0	0	0	0	0
ALDVIQAGKEYVEHTVK	DNAJC8	O75937	DNJC8	HUM	Unmodified	727630	577780	476360	0	0	0	0	0	0
ALDVIQAGKEYVEHTVKER	DNAJC8	O75937	DNJC8	HUM	Unmodified	1774100	1357800	1275200	0	0	0	0	0	0
ALDVSASDDEIAR	APEH; APEH; APEH	P13798; C9JIF9; I	ACPH	HUMA	Unmodified	1485600	1688500	1546500	550100	654640	613130	0	0	0
ALDYYMLRNGDTMEYR	TLN1	Q9Y490	TLN1	HUMA	2 Oxidation (M);De	2296500	2187700	1675400	80594	72742	61327	0	13727	0
ALEAAALAH	MAPKAPK2	P49137	MAPK2	HUN	Unmodified	1154100	2692600	2222300	615670	270780	809240	267670	158260	253180
ALEAEKR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	1321100	1064800	850060	28310	16611	24551	0	0	0
ALEAELAALR	INA	Q16352	AINX	HUM	Unmodified	0	1175800	1376800	0	0	0	0	0	0
ALEALVAK	AKR1A1	P14550	AK1A1	HUM	Unmodified	746630	806310	909430	0	0	0	0	0	0
ALEATTEHIRQELAVFCSPEPPAK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	1267200	0	0	0	0	0	0	0	0
ALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX	HUM	Unmodified	8569000	8278600	12281000	40908	62671	42248	0	0	0
ALEAVFGKYGR	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX	HUM	Unmodified	2387300	1832100	2494200	31172	24999	22223	0	0	0
ALEDAFLAIDAK	PPM1G	O15355	PPM1G	HUM	Unmodified	2415200	0	2016400	13609	0	0	0	11080	0
ALEDAQAVNEQLSSER	CEP131; CEP131; CI	Q9UPN4; I3L4M5	CP131	HUM/	Unmodified	457960	0	515950	0	21111	0	0	0	0
ALEDFLASLR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1182600	925840	1448500	0	0	0	0	0	0
ALEDLVDFK	MKI67	P46013	KI67	HUMA	Unmodified	863630	0	0	0	0	0	0	0	0
ALEDVDYVQTFK	PPP4R3A; PPP4R3A	Q6IN85; G3V5Z3	P4R3A	HUM	Unmodified	715340	698000	687200	0	0	0	0	0	0
ALEDVVQR	ZNF638; ZNF638; ZN	Q14966; A0A096I	ZN638	HUM	Unmodified	776940	1378000	1396100	0	105590	131010	0	0	0
ALEEAGFK	CAPN2	P17655	CAN2	HUMA	Unmodified	712580	738360	615380	0	0	0	0	0	0
ALEEALEAK	MYH10; MYH11	P35580; P35749	MYH10	HUM	Unmodified	313440	413220	0	15076	0	0	0	0	0
ALEEALEAKEEFER	MYH10	P35580	MYH10	HUM	Unmodified	5635900	2460700	5632500	58331	38111	22357	0	0	0
ALEEALEAKEELER	MYH11	P35749	MYH11	HUM	Unmodified	0	0	0	0	0	0	217130	72909	70787
ALEEALEAKEELERTNK	MYH11	P35749	MYH11	HUM	Unmodified	0	0	0	0	0	0	0	52421	87445
ALEEAMEQK	MYH9	P35579	MYH9	HUM/	Oxidation (M)	491900	418180	617770	0	0	0	0	0	0
ALEEAMEQKAELER	MYH9	P35579	MYH9	HUM/	Oxidation (M)	29840000	32262000	25794000	852210	953670	843820	13585	33022	23716
ALEEAMEQKAELER	MYH9	P35579	MYH9	HUM/	Oxidation (M);Metl	2536500	1715200	1433100	0	0	56694	0	0	0
ALEEAMEQKAELERLNK	MYH9	P35579	MYH9	HUM/	Oxidation (M)	2252000	2035400	3198400	191400	0	0	22240	18986	0
ALEEELAGLK	SMC2	O95347	SMC2	HUMA	Unmodified	712530	400310	487500	0	0	0	0	0	0
ALEEEQEAREELER	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Unmodified	2948900	3752300	3776400	175580	116310	61797	0	0	0
ALEEGDGSVSGSSPR	FNBP4	Q8N3X1	FNBP4	HUM	Unmodified	909700	647030	758600	0	0	0	0	0	0
ALEELPAER	N/A	N/A	N/A		Unmodified	2210300	818740	1103700	0	0	0	0	0	0
ALEENNNFSK	STMN2; STMN2	Q93045; E5RGX5	STMN2	HUM	Unmodified	5585900	4176700	4990600	71278	61096	58075	0	0	0
ALEEVPIHIEDPPFPSLR	CARMIL1; CARMIL	Q5VZK9; A0A0U	CARL1	HUM	Unmodified	736030	700720	0	0	0	0	0	0	0
ALEGLQYPFAVTSYGK	NID1	P14543	NID1	HUMA	Unmodified	1545200	1728400	1158900	0	12507	0	16525	0	0
ALEHAFQLEHIMDLTR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	4370300	3578300	7875900	0	0	0	0	0	0
ALEHFTDLYDIK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	2200700	2555000	2687600	0	0	0	0	0	0
ALEHFTDLYDIKR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	8920100	7087200	7157600	15170	0	17683	0	14222	0
ALEHHRSEIQAEQDR	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60	HUM	Unmodified	0	0	550210	0	0	0	0	0	0
ALEIADFSGNPLSR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	0	0	2650700	22825	19101	15262	0	0	0
ALEIIPR	CCT7	Q99832	TCPH	HUM	Unmodified	9176400	9338400	10110000	111670	111620	112770	0	0	0
ALEIYATR	KLC2; KLC2	Q9H0B6; A8MZ8	KLC2	HUMA	Unmodified	1922100	2304300	2382300	36503	0	0	0	0	0
ALEIYQTK	KLC1; KLC1; KLC1;	Q07866; G3V5R9	KLC1	HUMA	Unmodified	2548000	5484700	0	93014	62183	62731	0	0	0
ALEKEEEEEK	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ALEKIDLK	RPL3; RPL3	P39023; G5E9G0	RL3	HUMA	Unmodified	1210900	1121900	842490	0	23917	0	0	0	0
ALEKLDGTEVNGR	SRSF4; SRSF4	Q08170; A0A0D9	SRSF4	HUM/	Deamidation (N)	492380	1500100	1338600	149830	178500	97940	0	0	0
ALELDPDNETYKSNLK	SGTA; SGTA; SGTA;	O43765; A0A7I2V	SGTA	HUMA	Unmodified	2119200	1300100	1647100	0	0	0	0	0	0
ALELDPDNETYKSNLK	SGTA; SGTA; SGTA;	O43765; A0A7I2V	SGTA	HUMA	Deamidation (N)	498300	739670	539210	0	0	0	0	0	0
ALELDPNLYR	MYH14; MYH10; MY	Q7Z406; P35580;	MYH14	HUM	Unmodified	0	0	0	330070	355860	351460	222350	206070	183620
ALELDQER	RDX; RDX; RDX	P35241; A0A2R8	RADI	HUM	Unmodified	1385100	1509000	1280500	88550	63024	55103	0	0	0
ALELDSNLYR	MYH9	P35579	MYH9	HUM/	Unmodified	4694100	4755600	4490200	406990	311210	327380	57887	0	0
ALELDSNNEK	FKBP4	Q02790	FKBP4	HUM	Deamidation (N)	0	1185500	0	0	0	0	0	0	0
ALELDSNNEKGLFR	FKBP4	Q02790	FKBP4	HUM	Deamidation (N)	562970	542420	941950	0	63299	36940	0	8583	0
ALELDSNNEKGLFR	FKBP4	Q02790	FKBP4	HUM	2 Deamidation (N)	910890	1008700	821460	28846	20577	0	0	0	0
ALELEEFQYIGESQGYDIMEPAAK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUMA	Oxidation (M)	1245700	0	0	0	0	0	0	0	0
ALELENDR	LMNB2	Q03252	LMNB2	HUM	Unmodified	1196500	0	0	0	0	0	0	0	0
ALELENDRLLLK	LMNB2	Q03252	LMNB2	HUM	Deamidation (N)	830110	1085900	10521000	0	0	0	0	0	0
ALELENDRLLLK	LMNB2	Q03252	LMNB2	HUM	Unmodified	11307000	7189200	7840100	258500	285230	226780	23008	12718	0
ALELEQER	MSN	P26038	MOES	HUM/	Unmodified	10760000	0	11324000	664330	808500	942110	0	0	0
ALELNQR	TTC37; TBC1D30; T	Q6PGP7; Q9Y2I9;	TTC37	HUM	Unmodified	1453100	4034300	1607300	245120	176340	188120	0	0	0
ALELPLAASSIPRPR	MAP1S	Q66K74	MAP1S	HUM	Unmodified	1914300	2370400	1577900	27433	27868	14898	0	0	0
ALELQPGYIR	PEX5; PEX5	P50542; B4E0T2	PEX5	HUM	Unmodified	889010	1140800	874820	210960	245390	198180	0	0	147050
ALELTGLK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	28089000	29760000	36494000	142070	128540	139980	12493	0	0
ALELTGLKVFGNEIK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	3023500	2136000	2782000	0	0	0	0	0	0
ALELTGLKVFGNEIK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Methyl (KR)	1192800	1389700	1638700	0	0	0	0	0	0
ALELTGLKVFGNEIK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Deamidation (N)	2177900	2593600	3068900	0	0	0	0	0	0
ALELTGLKVFGNEIK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Methyl (KR);Deam	1660900	1278100	1778400	0	0	0	0	0	0
ALELTGLKVFGNEIKLEKPK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Deamidation (N)	1475800	1260900	1373100	0	0	0	0	0	0
ALEMCPSCFQKER	TTC1	Q99614	TTC1	HUMA	Oxidation (M)	0	0	0	55047	79885	64289	0	0	0
ALENVLSGKA	NDUFA2	O43678	NDUA2	HUM	Unmodified	9838400	13195000	8244300	1022300	1173100	975280	89831	106600	108330
ALEPLEGLETMR	MPG; MPG	P29372; A2IDA3	3MG	HUMA	Oxidation (M)	5060200	6076000	7193000	0	0	0	0	0	0
ALEPSFLPVAELHGLR	GSE1; GSE1	Q14687; H0Y613	GSE1	HUMA	Unmodified	1484500	1113800	1167400	0	0	0	0	0	0
ALEPTGQSGEAVK	NELFB; NELFB	Q8WX92; A0A5H	NELFB	HUM	Unmodified	365640	555720	444930	0	0	0	0	0	0
ALEQFATVVEAK	ACADVL; ACADVL;	P49748; J3QRJ8; I	ACADV	HUM	Unmodified	3984400	2903900	2762100	37857	0	19804	0	0	0
ALEQLNGFELAGRPMK	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39	HUM	Oxidation (M);Deai	9057900	10703000	8446300	117680	141210	65142	9878.5	0	0
ALEQQVEEMK	MYH9	P35579	MYH9	HUM/	Oxidation (M)	2233600	2707100	2042300	0	82267	97562	0	0	0
ALEQQVEEMR	MYH10	P35580	MYH10	HUM	Oxidation (M)	895410	858610	643910	89996	72273	56560	0	0	0
ALERLEGVEGVAHIIDPK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1924800	1630300	1835200	0	0	0	0	0	0
ALESDMAPVLMATNR	RUVBL2; RUVBL2	Q9Y230; M0R0Y	RUVB2	HUM	2 Oxidation (M)	3450600	2998000	2677500	85170	68746	55905	13173	17682	0
ALESELQQLR	PBXIP1	Q96AQ6	PBIP1	HUMA	Unmodified	1420900	1820100	1750300	256910	208870	206060	0	0	0
ALESGDVNTVWK	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1	HUM	Unmodified	1958200	0	1757200	24950	67971	113790	0	0	0
ALESPERPFLAILGGAK	PGK1	P00558	PGK1	HUMA	Unmodified	299190000	308800000	311070000	0	0	78670	85923	54942	0
ALESSIAPIVIFASNR	RUVBL1; RUVBL1;	Q9Y265; E7ETR0	RUVB1	HUM	Unmodified	1673200	1704800	1802800	0	0	0	13784	0	0
ALESSLWELQALQR	NOC4L	Q9BVI4	NOC4L	HUM	Unmodified	1176800	1292700	0	0	0	0	0	0	0
ALETDSVSGVSK	SUZ12; SUZ12	Q15022; J3QQW9	SUZ12	HUM	Unmodified	627220	781810	666630	0	0	0	0	0	0
ALETLTGALFQRPPLIAAVK	DKC1; DKC1; DKC1	O60832; H7BZF2;	DKC1	HUMA	Unmodified	755050	590560	585660	0	0	0	0	0	0
ALETVFGK	RBMXL1; RBMXL1	Q96E39; A0A1B0	RMXL1	HUM	Unmodified	286500	268160	337750	0	0	0	0	0	0
ALETVPKDLR	SUPT4H1; SUPT4H1	P63272; J3KSQ6	SPT4H	HUM	Acetyl (Protein N-t	1606600	1273200	1662700	519660	407980	426930	46125	55707	42623
ALETVQER	GSDMA; GSDMA	Q96QA5; J3KRG2	GSDMA	HUM	Unmodified	241940	341660	1134000	168830	235280	154700	0	0	0
ALEVAEYLTPVLK	ATG3; ATG3	Q9NT62; F8WDI0	ATG3	HUMA	Unmodified	272630	239890	441330	0	0	0	0	0	0
ALEVAEYLTPVLKESK	ATG3; ATG3	Q9NT62; F8WDI0	ATG3	HUMA	Unmodified	1797400	1375300	1857700	0	0	0	0	0	0
ALEVEECRCPPGYIGLSCQDCAPGYTR	HSPG2	P98160	PGBM	HUM	Unmodified	0	0	0	0	0	0	145540	0	0
ALEVSEDVK	MAGED2	Q9UNF1	MAGD2	HUM	Unmodified	2504100	5008300	3172800	0	144480	0	0	0	0
ALEVSEDVKVSK	MAGED2	Q9UNF1	MAGD2	HUM	Unmodified	1028600	1419700	2048800	138210	130870	81482	37795	45954	0
ALEYIENLR	SCG2; SCG2; SCG2	P13521; C9JDT0;	SCG2	HUMA	Unmodified	671310	0	0	0	0	0	0	0	0
ALEYTIYNQELNETR	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	3760900	4112700	4495900	0	0	0	0	0	27644
ALEYVEAK	PDCD11; PDCD11	Q14690; A0A3B3	RRP5	HUMA	Unmodified	923340	185640	241770	0	0	0	0	0	0
ALFDFNGNDEEDLPFKKGDILR	CRK	P46108	CRK	HUMA	2 Deamidation (N)	941220	1164900	1156800	0	0	0	0	0	0
ALFEEVPELLTEAEK	ATIC; ATIC	P31939; H7C1S2	PUR9	HUMA	Unmodified	1088300	0	1234100	0	0	0	0	0	0
ALFEEVPELLTEAEKK	ATIC; ATIC	P31939; H7C1S2	PUR9	HUMA	Unmodified	2524800	2141500	1887300	0	0	0	0	0	0
ALFEEVPELLTEAEKKEWVEK	ATIC; ATIC	P31939; H7C1S2	PUR9	HUMA	Unmodified	416760	220320	455650	0	0	0	0	0	0
ALFGLYMSASHIASNPK	EMC2	Q15006	EMC2	HUM	Oxidation (M)	0	1179100	750030	0	0	0	0	0	0
ALFIVPR	UPF2	Q9HAU5	RENT2	HUM	Unmodified	653390	507770	618820	14770	15513	16360	0	0	0
ALFLETEQLK	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	7877200	7129500	0	439620	425210	404550	14505	17561	0
ALFLETEQLKK	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	7723200	6630100	7164000	649450	594930	592500	17789	13069	13491
ALFLETEQLKK	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Methyl (KR)	1165600	1299100	1000100	21357	89907	56285	0	0	0
ALFLIPR	TNIK; MINK1; MAP	Q9UKE5; Q8N4C	TNIK	HUM	Unmodified	2441700	1571100	2330700	95599	116520	109550	11012	15370	13542
ALFLPPMTLPPHGPAAGGSVAAS	C12orf57; C12orf57;	Q99622; F5GXW	C10	HUMA	Oxidation (M)	0	1611400	0	0	0	0	0	0	0
ALFPEPR	CHAMP1	Q96JM3	CHAP1	HUM	Unmodified	0	0	0	100120	141870	143850	0	0	0
ALFPGDSEIDQLFR	CDK3; CDK2; CDK2	Q00526; P24941;	CDK3	HUM	Unmodified	0	998940	906470	0	0	0	0	0	0
ALFQDIK	FTL	P02792	FRIL	HUMA	Unmodified	7950800	7602900	7541500	2092600	2119600	2048600	0	0	76231
ALFVSAFPQQLTMK	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT	HUMA	Oxidation (M)	804010	702830	751290	21593	11079	0	0	0	0
ALGAEIVR	CBS; CBSL	P35520; P0DN79	CBS	HUMA	Unmodified	7935900	7966300	8622300	74700	48003	40214	0	0	0

ALGAQIEK	SDE2	Q6IQ49	SDE2_HUMA	Unmodified	3638300	3167900	3614500	102650	95689	128510	0	0	0
ALGEEEEEPPR	ZNF428; ZNF428	Q96B54; M0QXZ:	ZN428_HUM	Unmodified	1162100	1020000	813770	31354	76943	56060	0	0	0
ALGEPITLFGEGPAER	PRPF4	O43172	PRP4_HUMA	Unmodified	2596700	2954900	1874300	0	20067	8282.9	0	0	0
ALGEPITLFGEGPAERR	PRPF4	O43172	PRP4_HUMA	Unmodified	1280300	1295700	1268200	0	0	0	0	0	0
ALGFMYIR	PRPF38B; PRPF38B	Q5VTL8; A0A0A(	PR38B_HUM	Oxidation (M)	3578200	830820	727590	32989	112840	92529	0	0	0
ALGFPLERPK	CS; CS; CS	O75390; A0A0C4(	CISY_HUMA	Unmodified	1293900	979520	1566200	0	35736	48255	0	0	0
ALGLASGELAAR	IRGQ	Q8WZA9	IRGQ_HUMA	Unmodified	5511300	5909400	5624100	224240	166050	58032	0	0	20905
ALGLDSANEKGLYR	FKBP5	Q13451	FKBP5_HUM	Unmodified	169860	0	227970	0	0	0	0	0	0
ALGMKLPETNLFETEETR	KARS1	Q15046	SYK_HUMAN	Oxidation (M)	856880	755550	953840	0	0	0	0	0	0
ALGPEQLLR	GNL1; GNL1	P36915; A0A140T	GNL1_HUMA	Unmodified	3476900	3641200	3459400	289540	279680	245550	0	10021	0
ALGQAASDNSGPEDAKR	NOMO1; NOMO3; N	Q15155; P69849;	NOMO1_HUM	Deamidation (N)	368930	1267700	1912800	0	3682200	0	273200	274800	0
ALGQNPTNAEVLK	MYL6B; MYL6; MY	P14649; P60660; (	MYL6B_HUM	Unmodified	31582000	32727000	33914000	110690	1743400	1949400	639670	631670	482820
ALGQNPTNAEVLK	MYL6B; MYL6; MY	P14649; P60660; (	MYL6B_HUM	Deamidation (N)	18941000	18104000	18526000	742200	784030	910120	78153	50338	0
ALGQNPTNAEVLKVLGNPK	MYL6B; MYL6; MY	P14649; P60660; (	MYL6B_HUM	Unmodified	1834600	1404300	1365700	0	145010	83258	0	176670	187820
ALGQNPTNAEVLKVLGNPK	MYL6B; MYL6; MY	P14649; P60660; (	MYL6B_HUM	Methyl (KR)	1025100	1001900	854910	21551	0	0	26655	0	33626
ALGQNPTNAEVLKVLGNPK	MYL6B; MYL6; MY	P14649; P60660; (	MYL6B_HUM	Deamidation (N)	3120300	2643400	3609600	112090	82374	61521	76867	0	122680
ALGSGMAVDCSTLTSK	TACSTD2	P09758	TACD2_HUM	Oxidation (M)	0	0	0	117340	118750	127160	0	0	0
ALGTEVIQLFPEK	AIFM1; AIFM1; AIFN	O95831; A0A72R	AIFM1_HUM	Unmodified	3101000	2630900	2499400	0	16852	0	0	0	0
ALGTEVIQLFPEKGNMGK	AIFM1; AIFM1; AIFN	O95831; A0A72R	AIFM1_HUM	Oxidation (M)	1715600	2125600	1900200	38609	26643	23053	0	0	0
ALGTEVIQLFPEKGNMGK	AIFM1; AIFM1; AIFN	O95831; A0A72R	AIFM1_HUM	Oxidation (M);Deai	295600	2400100	309020	0	0	0	0	0	0
ALGTLGMTTNEKGQVVTK	UBR4; UBR4	Q5T4S7; X6R960	UBR4_HUMA	Oxidation (M);Deai	346840	323950	699400	31531	28721	25815	0	0	0
ALGVNAMLR	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Oxidation (M)	28554000	28931000	28729000	0	0	0	0	0	0
ALGVNAMLR	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Oxidation (M);Deai	8158600	3668100	7425200	0	0	0	0	0	0
ALGVNAMLRK	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Oxidation (M);Deai	614010	510970	526640	0	0	0	0	0	0
ALGVTEDR	LETM1	O95202	LETM1_HUM	Unmodified	83426	368350	445920	0	0	0	0	0	0
ALGVTEDRLR	LETM1	O95202	LETM1_HUM	Unmodified	0	528550	1246200	0	0	0	0	0	0
ALGYFAVVTGK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	489580	0	0	0	0	0	0	0	0
ALGYFHR	RMDN1; RMDN1; RI	Q96DB5; H0YBD(	RMD1_HUM	Unmodified	0	531370	1717600	0	0	0	0	0	0
ALHQYTLEPSEKPFDMK	COPG2	Q9UBF2	COPG2_HUM	Oxidation (M)	1522500	1000200	1908600	0	0	238010	0	0	0
ALHSLLLR	PAFAH1B3; PAFAH	Q15102; M0R1K3	PA1B3_HUM	Unmodified	4049000	3522500	3656300	0	0	0	0	0	0
ALHVPKAPGFAQMLK	CCT8	P50990	TCPQ_HUMA	Acetyl (Protein N-t	4965300	4611600	4474300	179380	0	0	0	0	0
ALHVPKAPGFAQMLK	CCT8	P50990	TCPQ_HUMA	Acetyl (Protein N-t	621750	464580	0	0	0	0	0	0	0
ALIAAQYSGAQVR	EEF1G	P26641	EF1G_HUMA	Unmodified	62624000	55826000	70166000	2246100	1867700	1798000	0	104260	94233
ALIAEHQTFMEEMTR	MACF1; DST; DST; ?	Q9UPN3; Q03001	MACF1_HUM	2 Oxidation (M)	2543900	2811300	2582300	65993	54740	70004	0	0	0
ALIAGGGAPEIELALR	CCT4	P50991	TCPD_HUMA	Unmodified	1572000	764010	1466000	0	18069	17563	22847	20323	0
ALIAQLPSPAIDHEQLR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	1671900	1288100	1574700	0	0	0	0	0	0
ALIASAGADALAK	STRN4; STRN4; STR	Q9NRL3; M0R31	STRN4_HUM	Unmodified	665500	743350	698650	0	0	0	0	0	0
ALIDQEVKNGIPSNR	LYPLA1; LYPLA1; L	O75608; B4DP64;	LYPA1_HUM	Deamidation (N)	2271900	2904600	0	19200	29975	36916	0	45681	32321
ALIEMEK	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM	Oxidation (M)	21439000	19008000	8004600	163740	0	205570	0	0	0
ALIEMEKQQQDQVDR	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM	Oxidation (M)	20080000	16143000	16481000	283980	229010	299770	0	0	0
ALIEMEKQQQDQVDRNIK	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM	Oxidation (M)	11650000	10518000	10146000	138290	95794	114990	0	0	0
ALIEMEKQQQDQVDRNIKEAR	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM	Oxidation (M)	8405500	7529000	7205400	0	224620	0	0	0	0
ALIESYQNLTR	ABII1; ABII1; ABII	Q8IZP0; A0A0A0	ABII1_HUMA	Unmodified	3443100	2459000	2875200	250300	277230	282540	43151	59994	0
ALIEVLQPLIAEHQAR	WARS1	P23381	SYWC_HUM	Unmodified	2040300	1988900	1471700	0	0	0	0	0	0
ALIGATNPADAPPGTIR	NME3; NME3	Q13232; H3BPR2	NDK3_HUMA	Unmodified	3974800	3797000	3323800	624810	811810	800200	0	0	0
ALIGDDVGLTSYK	NCBP3	Q53F19	NCBP3_HUM	Unmodified	1720100	1328900	1526900	26742	36795	33223	0	0	0
ALILVGLER	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	0	1807900	0	60435	59793	45746	0	0	0
ALINMSSLPAQDKIR	NCBP3	Q53F19	NCBP3_HUM	Oxidation (M)	0	0	0	574970	412250	507310	0	0	0
ALINSPEGAVGR	DNASE2; DNASE2	O00115; K7ENE5	DNS2A_HUM	Deamidation (N)	14369000	12434000	10652000	32427	109030	104690	0	0	0
ALINSPEGAVGR	DNASE2; DNASE2	O00115; K7ENE5	DNS2A_HUM	Unmodified	11208000	12481000	11384000	928730	877700	1062700	133480	189700	85099
ALIQYFSPYVSADMHR	GPS1; GPS1; GPS1; (	Q13098; A8K070;	CSN1_HUMA	Oxidation (M)	3181300	2037300	2727300	0	12256	0	0	0	0
ALIVEPSR	DDX1; DDX1; DDX1	Q92499; A0A087\	DDX1_HUMA	Unmodified	3989900	3500100	3489500	0	0	53124	0	0	0
ALIVVPYAEGVIPDEAK	SRSF11; SRSF11	Q05519; Q5T760	SRS11_HUM	Unmodified	7710400	5330100	5730900	0	0	0	0	0	0
ALIVVQQGMTPSAK	POLR2E; POLR2E; P	P19388; A0A087\	RPAB1_HUM	Oxidation (M)	2573000	3248500	2404700	148660	195420	57773	0	10663	0
ALKDEEKMELQEIQLK	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3_HUMA	Oxidation (M)	11804000	11903000	12230000	315130	181330	142470	0	0	11195
ALKDEEKMELQEIQLKEAK	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3_HUMA	Oxidation (M)	10833000	10027000	9484100	968630	1270200	617470	58717	137370	148880
ALKDEEKMELQEIQLKEAK	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3_HUMA	Oxidation (M);Metl	1381900	1803100	1503500	28363	19622	0	0	0	0
ALKDFVASIDATYAK	MCM3; MCM3; MC	P25205; A0A499F	MCM3_HUM	Unmodified	3318000	2458200	3395200	12607	0	0	0	0	0
ALKDKIEK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	2531600	3357400	5779500	0	0	0	0	0	0
ALKDKIEKAVVSQR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	357190	485540	901540	0	0	0	0	0	0
ALKDYALEK	MCM7	P33993	MCM7_HUM	Acetyl (Protein N-t	1444700	937240	0	0	0	0	0	0	0
ALKDYALEKEK	MCM7	P33993	MCM7_HUM	Acetyl (Protein N-t	4955600	5036600	6023200	0	0	0	0	0	0
ALKEQREEAAEVASLDVANIISGSGRPR	HIRIP3	Q9BW71	HIRP3_HUM	Unmodified	1522500	947330	0	0	0	0	0	0	0
ALKMMKENVAFEQEKEGK	LACTB; LACTB	P83111; H0YNN5	LACTB_HUM	2 Oxidation (M);De	0	0	0	0	375380	137640	0	0	0
ALKNNSNDIVNAIMELTM	NACA; NACA; NAC	E9PAV3; Q13765	NACAM_HUM	2 Oxidation (M);3 1	1279100	444580	1019900	0	0	0	0	0	0
ALKNNSNDIVNAIMELTM	NACA; NACA; NAC	E9PAV3; Q13765	NACAM_HUM	2 Oxidation (M);2 1	1543100	131970	2212800	0	0	0	0	0	0
ALKPEVDKLNIMAAK	CTNNA1; CTNNA1;	P35221; E5RIB1;	CTNA1_HUM	Oxidation (M)	2409400	2128500	2623400	175610	188850	243660	0	0	0
ALKPMHSLIPLGK	LRBA; LRBA; LRBA	P50851; A0A494(	LRBA_HUMA	Oxidation (M)	813840	743130	959690	113970	0	0	0	0	0
ALKQISSNK	ESD; ESD	P10768; U3KQT1	ESTD_HUMA	Acetyl (Protein N-t	192170	234160	355600	141820	166050	158140	217310	230840	239590
ALLAEGVILR	MRPS23; MRPS23	Q9Y3D9; J3QLR8	RT23_HUMA	Unmodified	0	940940	1301100	19036	13633	13075	0	0	0
ALLAEGVILRR	MRPS23; MRPS23	Q9Y3D9; J3QLR8	RT23_HUMA	Unmodified	1204400	1509800	1929600	0	11977	0	0	0	0
ALLAEHLLKPLPADK	GLTP; GLTP; GLTP	Q9NZD2; F5H0U!	GLTP_HUMA	Acetyl (Protein N-t	854110	1182100	775340	0	0	0	0	0	0
ALLAGQAALLQALMELAPASAPARDAAR	HGH1	Q9BTY7	HGH1_HUMA	Oxidation (M)	0	50816	132290	0	0	0	0	0	0
ALLAPLVAPEAGEAEPGSQER	KLC2; KLC2; KLC2;	Q9H0B6; E9PI24;	KLC2_HUMA	Unmodified	4525600	2409200	3894100	60149	41671	40115	0	0	0
ALLDASETTSTR	TRIM25; TRIM25	Q14258; A0A3B3	TRI25_HUMA	Unmodified	1244700	1093800	1414300	148360	179940	195560	0	0	0
ALLDQLMGTAR	LUC7L; LUC7L; LUC	Q9NQ29; F2Z322;	LUC7L_HUM	Oxidation (M)	3741200	3523500	3531900	0	0	115550	0	0	0
ALLDQLMGTARDGDETR	LUC7L	Q9NQ29	LUC7L_HUM	Oxidation (M)	3489400	3687300	2801500	51584	84494	65167	0	0	0
ALLEAGALPNAPNSYGR	CDKN2A; CDKN2A	P42771; J3QRG6	CDN2A_HUM	Deamidation (N)	997720	0	0	0	0	0	0	0	0
ALLEAGALPNAPNSYGR	CDKN2A; CDKN2A	P42771; J3QRG6	CDN2A_HUM	Unmodified	772160	647120	0	0	0	0	0	6836.1	0
ALLEKPGELSLLSYIRPDVK	SRBD1	Q8N5C6	SRBD1_HUM	Unmodified	0	995740	0	0	0	0	0	0	0
ALLELQLEPEELYQTFQR	EEF2	P13639	EF2_HUMAN	Unmodified	314460	0	0	0	0	0	0	0	0
ALLELVPWR	MACF1; DST; DST; ?	Q9UPN3; Q03001	MACF1_HUM	Unmodified	174760	1793900	1879700	0	0	0	0	0	0
ALLEVLGR	HAGH; HAGH; HAG	Q16775; H3BPK3	GLO2_HUMA	Unmodified	387350	362450	482480	0	0	0	0	0	0
ALLFIPR	HSP90AB1	P08238	HS90B_HUM	Unmodified	74490000	84737000	70066000	3153400	3125900	2888500	235920	288890	278090
ALLFVPR	HSP90AA1	P07900	HS90A_HUM	Unmodified	88527000	105410000	90874000	3498200	3006200	3513300	0	292900	287280
ALLFYGTDFR	FUT11	Q495W5	FUT11_HUM	Unmodified	1374700	1739600	1444200	14603	0	0	0	0	0
ALLGLDKFLGR	RAB11FIP1	Q6WKZ4	RFIP1_HUMA	Unmodified	184450	129700	0	0	0	0	0	0	0
ALLGYADNQCKLELQGVK	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4_HUM	Unmodified	2219300	1842700	1276700	0	0	0	0	0	0
ALLKDQQPGTFLLR	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Unmodified	4218900	3093400	4105800	22412	63877	0	0	0	0
ALLPELR	CHRNB1; DNAJC10;	P11230; Q8IXB1;	ACHB_HUM	Unmodified	823240	1549600	961110	56355	21419	53123	0	0	0
ALLPGPPLQPPPPAPVLLYDQGGGR	DUSP9	Q99956	DUS9_HUMA	Unmodified	245060	165240	200330	0	0	0	0	0	0
ALLQAILQTEDMLK	DSP	P15924	DESP_HUMA	Oxidation (M)	1556700	842820	1622900	0	0	0	0	0	0
ALLQAILQTEDMLKVYEAR	DSP	P15924	DESP_HUMA	Oxidation (M)	331550	0	0	0	0	0	0	0	0
ALLQDKDVIAINQDPLGK	GLA; GLA; GLA; GL	P06280; A0A6Q8	AGAL_HUM	Unmodified	0	0	0	0	0	0	0	0	0
ALLQDSAPQPALPQVQIPFPR	MIDEAS; MIDEAS; ?	Q6PJG2; H7C1L3	MDEAS_HUM	Unmodified	1015600	1302100	604640	0	0	0	0	0	0
ALLQEMPLTALLR	RO60	P10155	RO60_HUMA	Oxidation (M)	1001700	825900	942950	0	0	0	0	0	0
ALLQMVQQFGVDFEK	DNM2; DNM2	P50570; K7EMQ3	DYN2_HUMA	Oxidation (M)	398610	252250	463600	0	0	0	0	0	0
ALLQQQPEDDSK	SRP68	Q9UHB9	SRP68_HUM	Unmodified	0	900640	0	0	0	0	0	0	0
ALLQQQPEDDSKR	SRP68	Q9UHB9	SRP68_HUM	Unmodified	1054400	1754900	1372600	31829	33545	44070	0	0	0
ALLQSSASR	PA2G4	Q9UQ80	PA2G4_HUM	Unmodified	5691500	4877100	4808500	203420	61567	267660	0	0	0
ALLQTHPEAQR	FLYWCH2; FLYWCI	Q96CP2; I3L1Y9;	FWCH2_HUM	Unmodified	4741000	5633900	4682700	137780	103990	37441	0	0	0
ALLSAPWYLNR	HEXA; HEXA; HEXA	P06865; H3BP20;	HEXA_HUM	Unmodified	1642000	1796100	1373300	0	0	0	0	0	0
ALLSDER	LLGL2; LLGL2	Q6P1M3; J3QRV5	L2GL2_HUM	Unmodified	1221300	942780	968040	0	0	0	0	0	0
ALLSDMVR	TCERG1; TCERG1; ?	O14776; A0A7P0	TCRG1_HUM	Oxidation (M)	2869300	3237300	4247500	0	0	56210	0	0	0
ALLSSSDDPPAEVDIFELLK	TBC1D9B	Q66K14	TBC9B_HUM	Unmodified	41234	0	0	0	0	0	0	0	0
ALLTPVAIAAGR	GSR	P00390	GSHR_HUMA	Unmodified	2785800	1630900	1453300	45878	36243	10066	0	0	0
ALLTTNQLPQPDVPFLFK	AATF; AATF; AATF;	Q9NY61; A0A7P(	AATF_HUMA	Unmodified	144980	126250	208200	0	0	0	0	0	0
ALLVEPVINSYLLAER	TGM2	P21980	TGM2_HUM	Unmodified	196610	126360	219250	0	0	0	0	0	0
ALMASMAR	MAGED2; MAGED2	Q9UNF1; Q5H90(	MAGD2_HUM	2 Oxidation (M)	0	7816500	0	0	0	0	0	0	0
ALMDEVVK	PGK1	P00558	PGK1_HUMA	Oxidation (M)	133700000	128950000	112930000	1632900	1922500	1915100	0	0	8492.6
ALMDEVVKATSR	PGK1	P00558	PGK1_HUMA	Oxidation (M)	18342000	17811000	17740000	506000	2219300	1614300	54736	49679	46917
ALMDEVVKATSR	PGK1	P00558	PGK1_HUMA	Oxidation (M);Metl	6604100	5284300	5800100	58729	33188	61541	0	0	0
ALMGSPQLVAAVVR	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK_HUMA	Oxidation (M)	10193000	9488100	8558400	863330	781670	636650	34539	12262	41245
ALMLELK	UBE2R2	Q712K3	UB2R2_HUM	Oxidation (M)	1137200	1114600	1066500	32935	0	0	0	0	0
ALMLQGVDLLADAVAVTMGPK	HSPD1; HSPD1; HSP	P10809; A0A7Z\	CH60_HUMA	2 Oxidation (M)	557890000	175180000	427280000	130640	10339	0	26420	0	0
ALMLQGVDLLADAVAVTMGPKGR	HSPD1; HSPD1; HSP	P10809; A0A7Z\	CH60_HUMA	2 Oxidation (M)	11770000	7664200	11182000	0	0	0	41269	0	0
ALMLQGVDLLADAVAVTMGPKGR	HSPD1; HSPD1; HSP	P10809; A0A7Z\	CH60_HUMA	2 Oxidation (M);M	12117000	6090800	7073100	0	0	0	0	0	0
ALMTIIPDLSPNNPLSK	NUMA1	H0YFY6	H0YFY6_HUM	Oxidation (M)	0	0	616400	0	0	0	0	0	0
ALNGAEPNYHSLPSAR	LAMTOR1; LAMTO	Q6IAA8; H0YFI1;	LTOR1_HUM	Deamidation (N)	1626300	1446900	1782800	85837	237420	251040	11284	0	0
ALNGAEPNYHSLPSAR	LAMTOR1; LAMTO	Q6IAA8; H0YFI1;	LTOR1_HUM	2 Deamidation (N)	0	2297600	0	0	0	65878	0	0	0
ALNIERAHDERSEASGPQLLPVR	NADK2; NADK2; NA	Q4G0N4; A0A0C(	NAKD2_HUM	Unmodified	0	0	0	313470	333020	271450	0	0	0
ALNILQSTNMAFGK	RFC5	P40937	RFC5_HUMA	Oxidation (M)	572190	456070	812390	0	0	0	0	0	0
ALNMAIPGGPK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Oxidation (M)	477760	343810	336270	39418	51243	0	0	0	0
ALNMAIPGGPK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Oxidation (M);Deai	0	666250	442940	0	0	0	0	0	0
ALNPQDYVATVADALK	SLC12A9	Q9BXP2	S12A9_HUM	Unmodified	957640	1181500	482250	0	0	0	0	0	0
ALNQEQVIAVHIDNGFMR	GMPS	P49915	GUAA_HUM	Oxidation (M);Deai	1530900	821690	960700	0	0	14139	0	0	0
ALNRAMRELDR	CHMP2A; CHMP2A;	O43633; M0R1L7	CHM2A_HUM	Oxidation (M);3 M	0	0	0	0	0	0	0	0	0
ALNSMGQDLERPLELR	DSG1	Q02413	DSG1_HUMA	Oxidation (M)	1675300	1047300	1350300	125770	116300	0	0	0	20689
ALNVTPDYSPKAEELLSK	TTC5; TTC5	Q8N0Z6; H9KV8	TTC5_HUMA	Deamidation (N)	626610	516970	711510	0	0	0	0	0	0
ALNVTPDYSPKAEELLSK	TTC5; TTC5	Q8N0Z6; H9KV8	TTC5_HUMA	Unmodified	0	0	540140	0	0	0	0	0	0
ALPAPIEK	IGHG3; IGHG1; IGH	P01860; P01857;	IGHG3_HUM	Unmodified	7864100	12239000	13929000	488650	377270	529520	69481	0	0
ALPAVQQNNLDEDLIR	UBA1	P22314	UBA1_HUMA	Deamidation (N)	5735800	4789500	5893000	46266	19837	0	0	0	0

ALPAVQQNNLDEDLIR	UBA1	P22314	UBA1_HUMA	Unmodified	519190	0	1269000	0	0	9919.6	0	15151	0
ALPAVQQNNLDEDLIR	UBA1	P22314	UBA1_HUMA	2 Deamidation (N)	0	0	525900	0	0	0	0	0	0
ALPAVQQNNLDEDLIRK	UBA1	P22314	UBA1_HUMA	Deamidation (N)	5035300	3884200	4250300	49140	0	0	0	0	0
ALPEFFNGKNK	SMARCC2; SMARC	Q8TAQ2; Q92922	SMRC2_HUM	Deamidation (N)	981830	665900	371800	40057	40683	44305	0	0	0
ALPELQQALSALK	SARM1	Q6SZW1	SARM1_HUM	Unmodified	680770	0	0	0	0	0	0	0	0
ALPELQQALSALKQAGGAR	SARM1	Q6SZW1	SARM1_HUM	Unmodified	1051200	162850	567530	0	0	0	0	0	0
ALPELTKLLNDEDPVVVTK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK_HUMA	Deamidation (N)	1388500	2137600	1564500	0	0	0	0	0	0
ALPELTKLLNDEDPVVVTK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK_HUMA	Unmodified	1224900	823120	483280	0	0	0	0	0	0
ALPESLGQHALR	DDAH1	O94760	DDAH1_HUM	Unmodified	16311000	19834000	16302000	1097500	1099100	895710	108680	79783	82378
ALPFRKDLEK	TMOD3; TMOD3	Q9NYL9; H0YNU	TMOD3_HUM	Acetyl (Protein N-t	641940	436820	568040	0	0	0	0	23734	13455
ALPFVPMSYQLSQTYYR	GTF3C1; GTF3C1	Q12789; I3L1Z3	TF3C1_HUM	Oxidation (M)	942950	0	797450	0	0	0	0	0	0
ALPFWNEEIVPQIK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1_HUM	Unmodified	10365000	9681600	8049300	0	0	0	0	0	0
ALPFWNEEIVPQIK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1_HUM	Deamidation (N)	3303300	2574100	2916400	0	0	0	0	0	0
ALPFWNEEIVPQIKEGK	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Unmodified	2372000	1901100	1723800	0	0	0	0	0	0
ALPFWNEEIVPQIKEGKR	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Unmodified	3108100	2514300	2111400	0	0	0	0	0	0
ALPITQPTPR	SARG	Q9BW04	SARG_HUMA	Unmodified	0	0	0	255420	227770	282580	0	0	131270
ALPLALVLHELGAGR	TYMP; TYMP; TYM	P19971; C9JGI3;	TYPH_HUMA	Unmodified	4029700	2104300	3175900	0	0	0	0	0	0
ALPLEAEVAPVKDMAQLPETEIAPAKDVAPSTVK	MAP4; MAP4	P27816; E7EVA0	MAP4_HUM	Oxidation (M)	0	1331700	1300100	0	0	0	0	0	0
ALPLIPIVVEQTGRGER	CLPP	Q16740	CLPP_HUMA	Unmodified	788960	0	618990	0	0	0	0	0	0
ALPLIVGAQLIHADK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK8	HP1B3_HUM	Unmodified	6626400	6584900	8021800	87849	73603	38504	0	0	19678
ALPLIVGAQLIHADKLGEK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK8	HP1B3_HUM	Unmodified	1184200	1612000	991540	0	0	0	0	0	0
ALPPAQAGALLLALPPASPSAAR	IRGQ	Q8WZA9	IRGQ_HUMA	Unmodified	4891100	5421900	5864600	0	0	0	0	0	0
ALPPEQQFEPPLQPR	ADO	Q96SZ5	AEDO_HUM	Unmodified	1867800	1951600	1504800	270410	282660	239630	39869	50568	81850
ALPSEELNR	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Unmodified	2690200	1020600	3404500	126490	40339	0	0	0	0
ALPSEELNRQLEK	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Deamidation (N)	859730	840110	599390	0	0	0	0	0	0
ALPSEELNRQLEK	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Unmodified	993690	1084500	986060	0	66860	0	0	0	0
ALPSQGLSSSAVLEK	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1_HUM	Unmodified	1856100	1335100	1598700	0	0	0	0	0	0
ALPTSKPEGSLHSSPVGPSSSK	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4_HUM	Unmodified	954300	1092700	1010300	59957	118460	60749	34069	25865	23927
ALQADFDRAAEDVRK	ACBD7	Q8N6N7	ACBD7_HUM	Acetyl (Protein N-t	1760800	2075300	2215900	0	0	0	26633	0	0
ALQALEELR	PLEC	Q15149	PLEC_HUMA	Unmodified	101550	158780	895930	48921	145880	46594	0	0	9596.6
ALQALEELRLQAEEAER	PLEC	Q15149	PLEC_HUMA	Unmodified	3110000	4996200	3606400	0	0	0	0	0	0
ALQAQEIECR	COLGALT1; COLGA	Q8NBJ5; M0QX7	GT251_HUM	Unmodified	1041600	0	1481000	0	0	0	0	0	26122
ALQATVGNSYK	LAMP1	P11279	LAMP1_HUM	Deamidation (N)	1282000	1438500	1114900	0	56066	0	0	0	0
ALQDEWDAVMLHSFTLR	PRPF19; PRPF19	Q9UMS4; F5GY5	PRP19_HUM	Oxidation (M)	2460200	4411900	1945400	0	0	0	0	0	0
ALQDLENAASGDAAVHQR	RPRD1A; RPRD1A;	Q96P16; A0A0C4	RPR1A_HUM	Unmodified	3623100	3023200	3233900	521270	596410	482410	31308	0	18940
ALQDLENAASGDAAVHQR	RPRD1A; RPRD1A;	Q96P16; A0A0C4	RPR1A_HUM	Deamidation (N)	1410500	1051500	989320	91034	87691	87721	0	0	0
ALQDLENAASGDATVR	RPRD1B; RPRD1B	Q9NQG5; A2A2M	RPR1B_HUM	Deamidation (N)	1043400	465330	410750	0	0	0	0	0	0
ALQDLENAASGDATVR	RPRD1B; RPRD1B	Q9NQG5; A2A2M	RPR1B_HUM	Unmodified	5631200	6499300	7277400	56038	37508	18633	0	0	0
ALQDLGLR	DDAH2; DDAH2; DI	O95865; H0Y7N1	DDAH2_HUM	Unmodified	3163900	2654100	2697000	41777	37007	0	0	0	0
ALQDQLVLVAAK	AGT; AGT; AGT; AC	P01019; A0A7P0	ANGT_HUM	Unmodified	410400	0	274340	0	0	0	0	0	0
ALQDSAPDRPSPVER	EHMT1; EHMT1; EH	Q9H9B1; A0A1B(	EHMT1_HUM	Unmodified	1877600	1808300	1765000	75151	84649	97241	0	0	0
ALQDVQIR	EDC4	Q6P2E9	EDC4_HUMA	Unmodified	668780	430710	0	0	0	0	0	0	0
ALQEEIDRESGKTEASETR	KNOP1; KNOP1; KN	Q1ED39; H3BPL4	KNOP1_HUM	Unmodified	423890	1721200	1599700	16348	15385	0	13442	0	0
ALQEGDLASSR	EXOC1	Q9NV70	EXOC1_HUM	Unmodified	641210	632820	893570	73020	19490	0	0	0	0
ALQFLEEVK	CCT6A	P40227	TCPZ_HUMA	Unmodified	926630	900240	769580	0	0	0	0	10036	0
ALQGASQIIAEIR	DNM1L	O00429	DNM1L_HUM	Unmodified	1116500	886540	991660	0	0	0	0	0	0
ALQGSLGGVEKELTLR	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B_HUM	Unmodified	5235800	1896800	2182700	0	0	0	0	0	0
ALQIPEVYLR	GAPVD1; GAPVD1	Q14C86; F8W9S7	GAPD1_HUM	Unmodified	3032100	2867200	2772000	38896	30245	26139	0	0	0
ALQLEEER	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	10760000	14152000	11324000	664330	808500	942110	0	0	0
ALQPIVSEEEWAHTK	CRAT; CRAT; CRAT	P43155; A0A7P01	CACP_HUMA	Unmodified	1033100	909480	750280	0	0	0	0	0	0
ALQQEQEIEQR	GATAD2A; GATAD2	Q86YP4; Q8WXI9	P66A_HUMA	Unmodified	2502100	2322000	1912700	8186.7	43039	0	0	0	0
ALQQLQR	GPX7	Q96SL4	GPX7_HUMA	Unmodified	848650	964020	1129300	0	0	0	0	0	0
ALQQVQEK	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	2976600	0	3201400	68641	49112	379210	57865	53428	30105
ALQQVQEKEVR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	10561000	12911000	11815000	653210	553580	775020	0	0	0
ALQQYTLEPSEKPFDLK	COPG1	Q9Y678	COPG1_HUM	Unmodified	11251000	7361300	7714700	0	0	0	166140	0	134160
ALQRPSAAAPQAENGPAAAPAVAAPAATEAPK	SART3; SART3	Q15020; A0A499	SART3_HUM	Deamidation (N)	8469900	6252700	7258800	372580	0	0	0	0	0
ALQSGQCAGAALDVFTEEPPRDR	PHGDH; PHGDH; PH	O43175; A0A2C9	SERA_HUMA	Unmodified	0	4303000	0	0	0	0	0	0	0
ALQSPALGLR	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1_HUM	Unmodified	17728000	14775000	17173000	749260	677820	859950	148490	83558	83184
ALQVGCLLR	AP2A1	O95782	AP2A1_HUM	Unmodified	719790	463780	708380	0	0	0	0	0	0
ALQVMEK	MRPS27; MRPS27;	Q92552; D6RH20	RT27_HUMA	Oxidation (M)	1226200	873870	1084100	0	0	0	0	0	0
ALRDAGLAVRDVSELTGFPEMLGGR	ATIC; ATIC	P31939; F8WEF0	PUR9_HUMA	Oxidation (M)	1512100	1098500	1584100	0	0	0	0	0	0
ALRDAKLDKSQIHDIVLVGGSTR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	1341300	1558600	726870	0	0	0	0	0	0
ALRMEFVSEVQR	MRPS26	Q9BYN8	RT26_HUMA	Oxidation (M)	1686700	1822700	1694300	0	0	0	0	0	0
ALRSMMQSRMNQEK	OR2T3; OR2T34	Q8NH03; Q8NGX	OR2T3_HUM	3 Oxidation (M);M	192050	214440	154150	0	0	0	0	0	0
ALRTDYNASVSVPDSSGPER	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Deamidation (N)	17230000	14856000	8922600	268840	431320	296270	0	0	0
ALRTDYNASVSVPDSSGPER	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Unmodified	11512000	11302000	11482000	379520	334000	257130	24786	40650	0
ALSADQGSYR	PTGFRN	Q9P2B2	FPRP_HUMA	Unmodified	0	594180	847140	116100	0	200590	0	0	0
ALSAEAALAR	PRMT3	O60678	ANM3_HUM	Unmodified	1207100	760510	960280	0	31777	21698	0	0	0
ALSAIADLLTNEHER	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Unmodified	3385600	3502800	3114100	0	0	0	0	0	0
ALSAIADLLTNEHER	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Deamidation (N)	616710	715140	743500	0	0	0	0	0	0
ALSAVSTQQK	GOLGA2; GOLGA2;	Q08379; H0Y7B8	GOGA2_HUM	Unmodified	1412300	1503700	1753800	157880	0	315170	0	0	0
ALSEALTELGYK	SHMT1	P34896	GLYC_HUMA	Unmodified	893160	613900	534450	0	0	0	0	0	0
ALSEIAGMTLPYDTLDQVR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Oxidation (M)	5369300	5069700	4470500	0	0	0	0	0	0
ALSGTSPDDVQPGPSVGPPSK	NOSIP; NOSIP; NOSI	Q9Y314; M0R3B2	NOSIP_HUM	Unmodified	0	0	658210	0	0	0	0	0	0
ALSKDLPK	UQCRC1	P31930	QCR1_HUMA	Unmodified	386290	1260200	1767700	47715	43284	62720	0	0	0
ALSKSMHAR	METTL16; METTL1	Q86W50; I3L362;	MET16_HUM	Acetyl (Protein N-t	177810	0	0	0	0	0	0	0	0
ALSKSMHARNR	METTL16; METTL1	Q86W50; I3L362;	MET16_HUM	Acetyl (Protein N-t	0	625890	0	0	0	0	0	0	0
ALSLGTIPSLTR	TMEM201; TMEM2	Q5SNT2; H0Y994	TM201_HUM	Unmodified	1028500	756320	705690	0	0	0	0	0	0
ALSMPLNGLKEEDKEPLIELFVK	CLIC4	Q9Y696	CLIC4_HUMA	Acetyl (Protein N-t	2747300	357330	489620	0	0	0	0	0	0
ALSNLESIPGGYNALR	UBQLN2; UBQLN1;	Q9UHD9; Q9UM	UBQL2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
ALSNLESIPGGYNALRR	UBQLN2; UBQLN1;	Q9UHD9; Q9UM	UBQL2_HUM	Unmodified	8109600	7496100	9780800	445090	401800	235330	60792	44462	56268
ALSNLESIPGGYNALRR	UBQLN2; UBQLN1;	Q9UHD9; Q9UM	UBQL2_HUM	Deamidation (N)	3130800	1704100	2911300	126920	38669	20688	0	0	0
ALSPAELR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	6361500	0	7853100	0	148480	151740	0	0	0
ALSRQEMQEVQSSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Oxidation (M)	7962300	7060000	8440500	763720	654850	428970	0	0	0
ALSSEGKPYVTKEELYQNLTR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	2949000	3811100	3334900	62103	66985	66275	0	0	0
ALSSESFERLPVFNK	PDK3	Q15120	PDK3_HUMA	Unmodified	1236900	1716200	1136000	0	0	0	0	0	0
ALSSEWKPEIR	NCAM1; NCAM1; N	P13591; A0A087	NCAM1_HUM	Unmodified	0	1741800	0	0	0	0	0	0	0
ALSSGGSITSPPLSPALPK	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2_HUM	Unmodified	790670	635630	0	19296	0	37531	0	0	0
ALSSSVIR	NGDN; NGDN	Q8NEJ9; H0YJ17	NGDN_HUM	Unmodified	1012600	1381600	1401000	0	0	0	0	0	0
ALSTDPAAPNLK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	2259300	2080500	1811400	0	0	0	0	0	0
ALSTDPAAPNLKSQLAAAAR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	777350	669810	836200	0	0	0	0	0	0
ALSTDPAAPNLKSQLAAAAR	TLN1	Q9Y490	TLN1_HUMA	Deamidation (N)	546410	0	317140	0	0	0	0	0	0
ALSTDSIERLPVYNK	PDK1	Q15118	PDK1_HUMA	Unmodified	548540	1483800	620710	0	0	0	0	0	0
ALSTMDLQK	CHMP1A; CHMP1A;	Q9HD42; F8VVT7	CHM1A_HUM	Oxidation (M)	567200	493010	490080	16326	43563	0	0	0	0
ALSTTASTAAFDKQPQSR	EEFSEC; EEFSEC	P57772; C9J8T0	SELB_HUMA	Unmodified	933100	775060	1005200	168550	166710	223880	28390	33167	25234
ALSTWKQMGEQR	PNP	P00491	PNPH_HUMA	Oxidation (M)	399280	524920	398090	0	0	13193	57301	49804	29891
ALSVETEK	RO60; RO60	P10155; H0Y9N5	RO60_HUMA	Unmodified	467800	0	0	0	0	0	0	0	0
ALSVYGLPIR	RIOX1	Q9H6W3	RIOX1_HUM	Unmodified	0	354610	517560	0	0	0	0	0	0
ALTDFFR	GCA; GCA; GCA	P28676; H7C2Z6;	GRAN_HUM	Unmodified	5170500	4332200	3757500	158390	155710	0	15054	0	0
ALTDKVTDLLGGLFSK	TIMM44; TIMM44	O43615; M0QXU	TIM44_HUM	Unmodified	226290	0	132160	0	0	0	0	0	0
ALTDMPQMR	FGA	P02671	FIBA_HUMA	2 Oxidation (M)	1246900	1394600	1295500	188630	0	236340	0	0	23130
ALTDSFR	SRI; SRI; SRI	P30626; B4DHQ6	SORCN_HUM	Unmodified	4024500	1128700	3098800	310550	256630	317240	14105	13679	0
ALTLFDTDEYRPPVWK	CHN1; CHN1; CHN1	P15882; A0A494	CHIN_HUMA	Acetyl (Protein N-t	344260	312390	0	0	0	0	0	0	0
ALTLGALTLPLAR	ESYT1	Q9BSJ8	ESYT1_HUM	Unmodified	1463400	862270	985950	0	0	0	0	0	0
ALTLIAGSPLK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Unmodified	983210	703130	776670	14429	0	0	0	0	0
ALTPVSIAHGTPVMR	ELF2	Q15723	ELF2_HUMA	Oxidation (M)	1252500	1129400	1606000	28395	27964	42282	0	0	0
ALTQTGGPHVK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	3693300	3349600	5176000	1774700	1649400	1956500	2416100	2057500	2416500
ALTQTGGPHVKAR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	0	0	0	0	0	0	3198400	1819300	1887900
ALTSEIALLQSR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	9722000	7286800	8723100	406880	385890	238290	25105	17639	0
ALTSELANAR	MSN	P26038	MOES_HUM	Unmodified	958510	0	1058000	0	48242	43558	17570	0	0
ALTSELANARDESK	MSN	P26038	MOES_HUM	Deamidation (N)	854980	637840	682390	0	0	320800	0	0	0
ALTSELANARDESK	MSN	P26038	MOES_HUM	Unmodified	5061100	1676900	0	0	0	0	0	0	0
ALTSELANARDESKK	MSN	P26038	MOES_HUM	Unmodified	703250	567270	1225400	0	0	0	0	0	0
ALTSFER	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	3529000	3485000	3632300	35720	0	47176	0	0	0
ALTSFLPAPTQLSQDQLEAEEKAR	SNW1; SNW1; SNW	Q13573; G3V5R3	SNW1_HUM	Acetyl (Protein N-t	9557400	6022900	7946100	0	0	0	0	0	0
ALTSQLTDEELAQGR	ME2; ME2; ME2; ME	P23368; A0A1W2	MAOM_HUM	Unmodified	2759900	3058700	1926700	0	0	0	0	0	0
ALTTEVPIPAK	HCFC1	A6NEM2	A6NEM2_HU	Unmodified	1846300	1300400	1274500	54581	57463	51493	0	0	0
ALTTMGFR	SRI; SRI	P30626; C9J0K6	SORCN_HUM	Oxidation (M)	3213100	3455500	3805700	320620	255540	285460	20183	0	0
ALTVPELTQQMFDAK	TUBB4A; TUBB3; TI	P04350; Q13509;	TBB4A_HUM	Oxidation (M)	38246000	45759000	40263000	1692100	2913400	2434500	90105	0	0
ALTVPELTQQMFDAK	TUBB4A; TUBB3; TI	P04350; Q13509;	TBB4A_HUM	Unmodified	857910	0	759990	0	0	0	0	0	0
ALTVPELTQQMFDAKNMMAACDPR	TUBB4A; TUBB3; TI	P04350; Q13509;	TBB4A_HUM	3 Oxidation (M);Dc	6955200	766630	7703900	420970	458960	328080	0	0	0
ALTVPELTQQMFDAKNMMAACDPR	TUBB4A; TUBB3; TI	P04350; Q13509;	TBB4A_HUM	3 Oxidation (M)	6828100	10183000	7027200	939780	0	594120	66733	0	0
ALTVPELTQQMFDAR	TUBB6; TUBB6	Q9BUF5; K7ESM	TBB6_HUMA	Oxidation (M)	3339200	1948700	1439300	191180	144350	126650	164460	88487	48374
ALTVPELTQQMFDSK	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M)	9263500	8403500	7370700	241410	127010	198140	0	0	0
ALTVPELTQQMFDSKNMMAACDPR	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A_HUM	3 Oxidation (M);Dc	3068400	6021000	7306900	33632	138970	213450	0	0	0
ALTVPELTQQMFDSKNMMAACDPR	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A_HUM	2 Oxidation (M);Dc	0	4023100	0	0	0	0	0	0	0
ALTVPELTQQMFDSKNMMAACDPR	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A_HUM	2 Oxidation (M)	783420	818640	4564700	548560	126290	293250	57504	39782	0
ALTVPELTQQVFDAK	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5_HUMA	Unmodified	292100000	234030000	327380000	163580	0	94132	224880	146410	116700
ALTVPELTQQVFDAKNMMAACDPR	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5_HUMA	2 Oxidation (M)	61158000	51849000	57601000	0	0	0	101370	0	0
ALTVPELTQQVFDAKNMMAACDPR	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5_HUMA	2 Oxidation (M);Dc	26843000	12455000	19580000	0	0	0	0	0	0
ALVADSHPESER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	8670900	3024700	7674200	1798300	1636700	1627300	27235	23226	0
ALVAIGTHDLDTLSGPFTYTAK	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	4073100	3033600	3087900	0	0	0	0	0	0

ALVATPGKK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUMA	Unmodified	12546000	15953000	16253000	438470	0	561130	0	113530	0
ALVATPGKK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUMA	Methyl (KR)	1506800	1445900	1579700	68882	53603	56110	0	0	0
ALVAYYQK	RPS16; RPS16; RPS1	P62249; M0R210;	RS16	HUMA	Unmodified	708060	295010	695040	0	0	0	0	0	0
ALVDELEWEIAQVDPKK	CNPY2; N/A; CNPY2	Q9Y2B0; F8W031	CNPY2	HUM	Unmodified	1094300	0	1033700	0	0	0	0	0	0
ALVDGPCTQVR	RPL14; RPL14	P50914; E7EPB3	RL14	HUMA	Unmodified	1479800	1752600	1543600	0	0	0	37105	0	0
ALVDHENVISCPHLGASTK	PHGDH; PHGDH; PH	O43175; A0A2C9	SERA	HUMA	Unmodified	2116700	749580	805000	157850	142730	139840	23428	0	0
ALVDKHK	CTBP2	P56545	CTBP2	HUM	Acetyl (Protein N-t	483380	527280	1371500	63803	0	52916	0	0	0
ALVEEALAQR	MYG1; MYG1; MYG	Q9HB07; F8VQQ	MYG1	HUM	Unmodified	1234200	1957000	0	0	25504	0	0	0	0
ALVEEEITR	GAK; GAK	O14976; D6RAW	GAK	HUMA	Unmodified	0	0	385490	164370	0	188700	0	0	0
ALVEFESNPEETREPGSPPSVQR	CCDC86; CCDC86	Q9H6F5; H0YG75	CCD86	HUM	Unmodified	3987500	3202100	4514100	526690	319020	461850	0	0	0
ALVELLR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2	HUM	Unmodified	400330	417430	0	0	0	0	0	0	0
ALVEVLGPYEPLLSR	RETREG3; RETREG	Q86VR2; K7ELM	RETR3	HUM	Unmodified	237320	217190	202520	0	0	0	0	0	0
ALVHERDEAAYGELR	PSME2; PSME2; PSA	Q9UL46; A0A087	PSME2	HUM	Unmodified	7268000	6858400	6758400	0	0	0	0	0	0
ALVHERDEAAYGELRAMVLDLR	PSME2; PSME2; PSA	Q9UL46; A0A087	PSME2	HUM	Oxidation (M)	620380	539420	678810	0	0	0	0	0	0
ALVIQESER	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2	HUM	Unmodified	509090	700100	550840	0	0	32465	0	0	0
ALVIVMGK	PFN2; PFN2	G5E9Q6; C9J0J7	G5E9Q6	HUM	Oxidation (M)	8351100	8411800	8581400	156280	132410	167590	0	0	0
ALVLTEIGPK	IMPA2	O14732	IMPA2	HUM	Unmodified	1483300	1127400	817670	15251	0	0	0	0	0
ALVNLAADPGLHETLLAADPGLPAR	HGH1	Q9BTY7	HGH1	HUM	Unmodified	715470	309620	748820	0	0	0	0	0	0
ALVPFEDLFGQAPGGER	ECSIT; ECSIT	Q9BQ95; K7EPL5	ECSIT	HUM	Unmodified	1122200	890250	953690	0	0	0	0	0	0
ALVPFEDLFGQAPGGERDK	ECSIT; ECSIT	Q9BQ95; K7EPL5	ECSIT	HUM	Unmodified	131670	186790	161390	0	0	0	0	0	0
ALVPMFVR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUMA	Oxidation (M)	1986800	2480300	1818700	166930	110700	177360	24354	0	16728
ALVQNDTLLQVK	H1-10	Q92522	H1X	HUMA	Unmodified	691530	344240	307450	0	0	0	0	0	0
ALVQNDTLLQVK	H1-10	Q92522	H1X	HUMA	Deamidation (N)	6859200	7152100	8180300	46226	0	46097	0	0	0
ALVQSLLAK	ADPRS	Q9NX46	ADPRS	HUM	Unmodified	4981300	4846900	4007900	121560	115700	129670	0	10356	0
ALVQSLLAKEAFDEVDMAHR	ADPRS	Q9NX46	ADPRS	HUM	Oxidation (M)	1384600	592320	771010	0	0	0	0	0	0
ALVSAQWVAEALR	MPST; MPST	P25325; B1AH49	THTM	HUM	Unmodified	2540300	1546500	1967900	0	0	0	0	0	0
ALVSEWKEPQAK	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUMA	Unmodified	3627400	2244200	2590600	132780	123840	122090	0	0	0
ALVSHNGSLINVGSLLQR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2	HUM	Deamidation (N)	2402000	2757900	3996200	0	0	0	0	0	0
ALVTGYFMQVAHLER	DHX15	O43143	DHX15	HUM	Oxidation (M)	695890	0	811780	0	0	0	0	0	0
ALVTLSSGDMR	RFC5	P40937	RFC5	HUMA	Oxidation (M)	1030600	903610	680890	0	0	0	0	0	0
ALVVEMSR	RBM14; RBM14-RBI	Q96PK6; A0A0A6	RBM14	HUM	Oxidation (M)	1487900	1472500	440450	0	0	0	0	0	0
ALWEDEGVR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	Unmodified	829230	860200	610180	0	0	0	0	0	0
ALWFER	OSBP	P22059	OSBP1	HUM	Unmodified	942340	990890	621670	36480	25064	28727	0	0	0
ALWFQGR	MATR3; MATR3; M	P43243; B3KM87	MATR3	HUM	Unmodified	2211600	0	0	44147	0	47857	0	0	0
ALYDTFSAFGNILSCK	PABPC4; PABPC1; F	Q13310; P11940;	PABP4	HUM	Unmodified	232280	291790	291750	0	0	0	0	0	0
ALYDVGDIVHSVR	KDM3A	Q9Y4C1	KDM3A	HUM	Unmodified	1165200	1418000	1114400	0	0	0	0	0	0
ALYDYAGQEADELSFR	PACSIN3; PACSIN3	Q9UKS6; A0A0C4	PACN3	HUM	Unmodified	462070	645620	723020	0	0	0	0	0	0
ALYDYEGQEHDELSFK	PACSIN2; PACSIN2;	Q9UNF0; H0Y923	PACN2	HUM	Unmodified	1959200	1713700	2131500	63131	0	0	109740	0	0
ALYEAGER	ANXA1	P04083	ANXA1	HUM	Unmodified	3075500	4262900	3228600	1922300	1783400	1935400	0	58780	0
ALYESELADAR	LMNB2	Q03252	LMNB2	HUM	Unmodified	3321800	3163500	4140700	531690	485030	536660	0	0	0
ALYESELADARR	LMNB2	Q03252	LMNB2	HUM	Unmodified	5558600	6857500	6356700	37945	547340	0	0	0	19186
ALYETELADAR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1	HUM	Unmodified	15677000	18275000	16173000	276250	181080	257910	0	0	0
ALYETELADARR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1	HUM	Unmodified	34380000	29141000	26727000	245110	188920	216410	0	0	0
ALYGTTSETATWR	MME; MME; MME	P08473; A0A6Q8	NEP	HUMA	Unmodified	959190	1560600	396550	0	0	0	0	0	0
ALYLIATNGTPELQNPEK	PAK2; PAK1; PAK1;	Q13177; Q13153;	PAK2	HUMA	Deamidation (N)	2047400	2654900	1104700	0	0	0	0	0	0
ALYPVIPR	PNPT1	Q8TCS8	PNPT1	HUM	Unmodified	1642800	1693100	1609900	59399	50622	38435	0	0	0
ALYSDPKSLETSAFVK	SCPEP1; SCPEP1	Q9HB40; I3L4Z9	RISC	HUMA	Unmodified	969510	1031400	872560	22539	0	25761	0	0	0
ALYTFEPR	OSTF1	Q92882	OSTF1	HUM	Unmodified	5369800	4184000	4601000	443690	560870	650720	0	0	0
ALYTLSGETEELSR	CAMSAP3	Q9P1Y5	CAMP3	HUM	Unmodified	1067600	0	1259400	0	0	0	0	0	0
ALYYLQIHPQELR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUMA	Unmodified	4323200	5336800	5457000	24495	29434	0	0	0	0
AMAAEAEASR	STOM	P27105	STOM	HUM	Oxidation (M)	496640	428390	496670	0	82409	75316	0	0	0
AMAAVPQDVVR	NCLN; NCLN	Q969V3; K7EMW	NCLN	HUM	Oxidation (M)	1537600	1746600	2241900	132840	138290	93013	0	0	0
AMADALLER	SHMT2; SHMT2; SH	P34897; H0YIZ0;	GLYM	HUM	Oxidation (M)	2217100	2009100	1908100	0	0	0	0	0	0
AMADPEVQQIMSDPAMR	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	3 Oxidation (M)	15176000	14594000	12000000	366050	204350	391230	0	0	0
AMAGLGQPLPQEELDAMIR	CALML5	Q9NZT1	CALL5	HUM	2 Oxidation (M)	3157700	1349000	2537500	0	0	0	0	0	0
AMATKGGTVK	ANXA4; ANXA4	B4E1S2; Q6P452	B4E1S2	HUM	Acetyl (Protein N-t	0	0	0	681940	1311000	1487400	188590	0	0
AMAVLESLR	QARS1; QARS1; QA	P47897; H7C0R3;	SYQ	HUMA	Oxidation (M)	5652400	3498600	2012000	0	0	0	0	0	0
AMDEIQPDLR	VPS28; VPS28; VPS	Q9UK41; E9PQR7	VPS28	HUM	Oxidation (M)	912600	857000	701690	0	0	0	0	0	0
AMDEMNGKEIEGEEIEIVLAKPPDKK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	2 Oxidation (M);De	2743700	4916200	4261500	0	0	0	0	0	0
AMDFNGLTIR	HSPG2	P98160	PGBM	HUM	Oxidation (M);Deam	0	2427300	1259500	208640	186810	195480	31151	30855	0
AMDLVQEEFLQR	MYG1; MYG1; MYG	Q9HB07; F8VQQ	MYG1	HUM	Oxidation (M)	0	0	951720	0	0	0	0	0	0
AMDSDWFAENYMGR	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB	HUMA	2 Oxidation (M)	6582400	8052300	11468000	44040	97040	83202	0	0	0
AMDSDWFAENYMGRK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB	HUMA	2 Oxidation (M)	1377000	1655100	1409400	0	0	0	0	0	0
AMDTLGIEYGDKER	GNAO1; GNAO1; GN	P09471; A0A1W2	GNAO	HUM	Oxidation (M)	2570500	0	0	0	0	0	0	0	0
AMDVYQK	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	Oxidation (M)	7302600	8172600	5648300	0	0	0	0	0	0
AMEAEAAGLREQLEEEAAAR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Oxidation (M)	2679400	5485000	5013100	0	60698	0	0	0	0
AMEAVAAQGK	PGAM1; PGAM2	P18669; P15259	PGAM1	HUM	Oxidation (M)	15879000	13717000	7206200	0	0	0	0	0	0
AMEGAGTDEKALIEILATR	ANXA6; ANXA6; AN	P08133; E7EMC6	ANXA6	HUM	Oxidation (M);Metl	900320	562380	739690	0	0	0	0	0	0
AMEGIFIKPSVEPSAGHDEL	SDF2L1	Q9HCN8	SDF2L	HUM	Oxidation (M)	7124100	3541900	7222100	201290	80346	163550	0	35952	38120
AMEVDERPTEQYSDIGGLDK	PSMC3; PSMC3; PSI	P17980; E9PN50;	PRS6A	HUM	Oxidation (M)	3277400	1367400	3472100	0	0	0	0	0	0
AMEWITAK	PFKP; PFKP; PFKP;	Q01813; A0A7Z	PFKAP	HUM	Oxidation (M)	1467000	1857600	743980	0	0	0	0	0	0
AMGEQAVALAR	PCCA; PCCA; PCCA	P05165; A0A1B0	PCCA	HUM	Oxidation (M)	315090	1087200	665270	0	0	0	0	0	0
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M);2 I	716800000	693830000	758910000	3919300	3509400	3097400	252240	84658	55621
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M);De	709490000	814830000	798390000	1239500	829430	720720	214610	195470	157000
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M)	9559300	13377000	9320600	261800	0	143510	155000	116130	0
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	Oxidation (M);Deai	1190200	536240	599980	0	0	0	0	0	0
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	Oxidation (M)	1185000	601600	983150	0	0	0	0	0	0
AMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	Oxidation (M);2 De	0	0	184790	0	0	0	0	0	0
AMGIMNSFVNDIFERIAGEASR	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M);De	36521000	15283000	22471000	19985	0	0	0	0	0
AMGIMNSFVNDIFERIAGEASR	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M);2 I	111030000	102380000	114090000	57996	17981	0	0	0	0
AMGIMNSFVNDIFERIAGEASR	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	2 Oxidation (M)	6417200	2786700	8313500	14588	0	0	0	0	0
AMGIMNSFVNDIFERIASEASR	H2BU1; H2BC13	Q8N257; Q99880	H2B3B	HUM	2 Oxidation (M);2 I	4235700	2000000	2053300	0	0	0	0	0	0
AMGIMNSFVNDIFERIASEASR	H2BU1; H2BC13	Q8N257; Q99880	H2B3B	HUM	2 Oxidation (M)	216630	0	357560	0	0	0	0	0	0
AMGKEDFTKIPHGVSGVQDR	DPYSL5	Q9BPU6	DPYL5	HUM	Oxidation (M)	0	0	902860	0	0	0	0	0	0
AMGMTNLPAVGR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	2 Oxidation (M)	863340	606040	935760	0	0	0	0	0	0
AMGQGLPDEEQEKLLR	LAS1L; LAS1L; LAS	Q9Y4W2; A0A7I2	LAS1L	HUM	Oxidation (M)	810940	922810	1032200	0	0	0	0	0	0
AMGVVVATGVNTEIGK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Oxidation (M);Deai	1340100	0	0	0	0	0	0	0	0
AMHESALLEEQR	NCOR1; NCOR1	O75376; A0A088	NCOR1	HUM	Oxidation (M)	657680	479270	600930	0	0	0	0	0	0
AMIIAER	MRPS34; MRPS34	P82930; C9JJ19	RT34	HUMA	Oxidation (M)	1097200	1144800	1719700	0	0	0	0	0	9491.6
AMKEYEEEER	CDC37; CDC37; CDC	Q16543; K7EQA9	CDC37	HUM	Oxidation (M)	211440	545690	431570	0	0	0	0	0	0
AMKGAGTDEGCLIEILASR	ANXA4	P09525	ANXA4	HUM	Oxidation (M)	456640	487550	398310	0	0	0	0	0	0
AMKGFGTDEQAIVDVVANR	ANXA7	P20073	ANXA7	HUM	Oxidation (M)	0	1203000	1122500	16832	0	0	0	0	0
AMKGLGTDEDAIISVLAYR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4	HUM	Oxidation (M)	839570	888880	2660700	0	0	0	0	0	0
AMKPPGGESSNLFGSPEEATPSSRPNR	JPT2; JPT2; JPT2; JP	Q9H910; A6NGP5	JUPI2	HUMA	Oxidation (M)	9509200	8031300	8520600	293040	295470	189950	0	0	0
AMKPPGGESSNLFGSPEEATPSSRPNR	JPT2; JPT2; JPT2; JP	Q9H910; A6NGP5	JUPI2	HUMA	Oxidation (M);Deai	8047000	3812900	3024500	104560	0	201910	0	0	0
AMKPPGGESSNLFGSPEEATPSSRPNR	JPT2; JPT2; JPT2; JP	Q9H910; A6NGP5	JUPI2	HUMA	Oxidation (M);2 De	0	1343600	0	0	0	0	0	0	0
AMKQVAGTMKLELAQYR	ATP5F1A	P25705	ATPA	HUMA	2 Oxidation (M)	1790400	2610800	1899100	152500	61286	0	0	0	0
AMLDQLMGTSR	LUC7L2; LUC7L2; L	Q9Y383; F8WEU	LC7L2	HUM	2 Oxidation (M)	3282800	3820900	3756400	207310	152560	324360	0	0	0
AMLDQLMGTSRDGDTTR	LUC7L2	Q9Y383	LC7L2	HUM	2 Oxidation (M)	6898400	6455100	6421000	279160	327040	162350	26826	41029	24125
AMLEAQQEALEELQLESPK	MRPL40	Q9NQ50	RM40	HUMA	Oxidation (M)	0	0	754860	0	0	0	0	0	0
AMLENEK	MSN	P26038	MOES	HUM	Oxidation (M)	1095200	1127600	0	69075	0	84937	0	0	0
AMLIEAGSPFREPLIK	TRRAP; TRRAP; TR	Q9Y4A5; F2Z2U4	TRRAP	HUM	Oxidation (M)	397740	1584400	382040	0	0	0	0	0	0
AMLLQGTESLNR	VTI1B; VTI1B; VTI1	Q9UEU0; H0YJL5	VTI1B	HUM	Oxidation (M)	0	0	0	185700	102330	147910	0	0	0
AMLSANIR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Oxidation (M)	653480	649300	671940	0	0	0	0	0	0
AMLSGPGQFAENETNEVNFR	ELOC; ELOC	Q15369; E5RHG8	ELOC	HUMA	Oxidation (M);Deai	535940	534930	1003300	34467	0	0	0	0	0
AMLTPKPAGGDEKDIK	MKI67	P46013	KI67	HUMA	Oxidation (M)	1095800	0	1214800	0	0	0	0	0	0
AMMVFPREEKLSQDEIVLGTK	KLC2; KLC2; KLC2;	Q9H0B6; E9PI24;	KLC2	HUMA	Acetyl (Protein N-t	1490900	1036000	1520700	0	0	0	0	0	0
AMNGESLDGR	RBM3	P98179	RBM3	HUM	Oxidation (M);Deai	4230300	4197500	6145600	384050	615580	192530	0	0	0
AMPEEEPVR	DDX27; DDX27	Q96GQ7; B7Z6D5	DDX27	HUM	Oxidation (M)	992100	1210600	1719600	0	146550	115590	0	0	0
AMPLQPSILR	POLD2; POLD2; POI	P49005; C9IZD2;	DPOD2	HUM	Oxidation (M)	1257400	1585400	1674400	0	0	0	0	0	0
AMQAAGQIPATALLPTMTPDGLAVTPTPVPVVGSQMTR	U2AF2; U2AF2	P26368; K7ELP8	U2AF2	HUM	3 Oxidation (M)	26434000	24011000	21803000	0	0	0	0	0	0
AMQAAKR	SF3B6	Q9Y3B4	SF3B6	HUM	Acetyl (Protein N-t	0	0	0	227020	205340	246950	0	0	0
AMQADISQAAQILSSDPSR	TMPO	P42166	LAP2A	HUM	Oxidation (M)	4947400	3605600	4495800	0	0	0	0	0	0
AMQADISQAAQILSSDPSRTHQALGILSK	TMPO	P42166	LAP2A	HUM	Oxidation (M)	5622000	4610900	4379300	0	0	0	0	0	0
AMQDAEVSK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Oxidation (M)	610690	555470	716180	51748	0	0	0	0	0
AMQDAEVSKSDIGEVILVGGMTR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	2 Oxidation (M)	6822500	7178500	7225900	0	227880	0	0	0	0
AMQDRYMEVSGNLR	SF3A3	Q12874	SF3A3	HUM	2 Oxidation (M)	644730	623820	560380	0	71284	0	0	0	0
AMQGLTGR	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Oxidation (M)	6080100	9950800	10141000	0	244920	279310	0	0	0
AMQHAEVYYK	PBDC1; PBDC1	Q9BVG4; A6NDF	PBDC1	HUM	Oxidation (M)	0	1223600	1256500	0	0	0	0	0	0
AMQTVVLR	ORC5	O43913	ORC5	HUMA	Oxidation (M)	303340	497220	0	0	0	0	0	0	0
AMRGIVNGAAPELPVPTGGPAVGAR	ATP6V1B2; ATP6V1	P21281; E5RGH6	VATB2	HUM	Oxidation (M);Deai	1750800	1558500	1246200	92792	62201	35082	0	0	14316
AMSEVTSLHEDDWR	LSR; LSR	Q86X29; S4R3V8	LSR	HUMA	Oxidation (M)	3722200	2523900	2670700	170970	222260	250740	0	0	0
AMSSGGSGGGVPEQEDSVLFRR	SMN1; SMN1; SMN1	Q16637; E7EQZ4;	SMN	HUMA	Acetyl (Protein N-t	1596800	1138800	0	200760	193160	0	63934	47920	57414
AMSTTSISSPQPGK	DBNL; DBNL; DBNL	Q9UJU6; B4DDD8	DBNL	HUM	Oxidation (M)	825690	0	637670	0	0	0	0	0	0
AMTGVEQWPYR	CCT3; CCT3	P49368; B4DUR8	TCPG	HUMA	Oxidation (M)	3447800	4068700	3654200	0	0	0	75364	0	0
AMTILLEEAK	ADAR; ADAR; ADA	P55265; A0A3B3	DSRAD	HUM	Oxidation (M)	1662700	1877700	1709900	146890	139700	114140	0	0	0
AMTKDNNLLGK	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C	HUM	Oxidation (M);Deai	0	558030	1485700	0	0	0	0	0	0
AMTKDNNLLGR	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Oxidation (M);Deai	3553800	566890	467560	0	0	0	0	0	0
AMTMPPVSPVGAEGPVVLR	SPTBN2; SPTBN2	O15020; A4QPE4	SPTN2	HUM	2 Oxidation (M)	1028800	857240	824130	221630	170660	183050	86189	0	96963
AMVASGSELGK	AK2; AK2; AK2; AK	P54819; G3V213;	KAD2	HUMA	Oxidation (M)	11172000	10771000	10832000	202430	287490	149120	0	0	0
AMVEYEIDLQK	PARP1	P09874	PARP1	HUM	Oxidation (M)	1210200	645490	1185600	0	0	0	0	0	0
AMVEYEIDLQKMPLGK	PARP1	P09874	PARP1	HUM	2 Oxidation (M)	2390000	1776000	1755700	0	0	0	16485	0	0

AMVLDLR	PSME2; PSME2; PSM	Q9UL46; A0A087	PSME2	HUM	Oxidation (M)	2157000	2008900	3220400	0	0	0	0	0	0
AMVSNAQLDNEKTNFMYQVDTLK	LRRFIP1	Q32MZ4	LRRF1	HUM	Oxidation (M);2 M	1114100	542420	0	0	0	0	0	0	0
AMYLPDTLSPADQLK	LETM1	O95202	LETM1	HUM	Oxidation (M)	2140800	804260	1290100	67634	63609	62778	0	0	0
AMYPDYFAK	NDUFB9; NDUFB9;	Q9Y6M9; E7EWZ	NDUB9	HUM	Oxidation (M)	1207200	1071300	1206700	0	0	0	0	0	0
ANAEIAQVR	TACC2; TACC2; TA	O95359; Q4VXL8	TACC2	HUM	Unmodified	929580	1076000	839860	0	0	0	0	0	0
ANAQAAALYK	CAPG; CAPG; CAPG	P40121; E7ENU9;	CAPG	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ANEEYGLR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUM	Unmodified	458630	1070900	1152300	0	61632	0	0	0	0
ANEVEQMIR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	728410	581240	788080	0	0	0	0	0	0
ANEVEQMIRDLEASIAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	1598000	794260	539350	0	0	0	0	0	0
ANEVEQMIRDLEASIAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M);Dea	1629800	3079100	1617600	0	0	0	0	0	0
ANEVIKCK	ADH5; ADH5; ADH5	P11766; D6RAY0	ADHX	HUM	Acetyl (Protein N-t	0	57908	0	307560	355740	384540	0	0	0
ANFENLAK	CTTN; CTTN	Q14247; H0YCD9	SRC8	HUM	Unmodified	2470900	2449000	2528900	284360	0	280070	34822	0	29731
ANFMAIR	GOSR1; GOSR1; GO	O95249; B4DQA8	GOSR1	HUM	Oxidation (M)	1095300	976510	1264400	0	31799	0	0	0	0
ANFSLPEK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	1126300	1594400	862610	56752	124370	106370	0	0	0
ANFWYQPSFHGVDLSALR	CARM1; CARM1	Q86X55; K7EQA8	CARM1	HUM	Unmodified	588220	636840	688690	0	0	0	0	0	0
ANGHPQQNGEGEPVTLFEVVK	STAG1; STAG1; STA	Q8WVM7; F8WF	STAG1	HUM	2 Deamidation (N)	1325500	581680	267220	0	12933	0	0	0	0
ANGMELDGR	TRA2A; TRA2B; TR	Q13595; P62995;	TRA2A	HUM	Oxidation (M);Dea	2966200	1933100	2228200	90676	0	79287	0	0	0
ANGTTVHVGIHPSKVVITR	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26	HUM	Deamidation (N)	0	413590	722520	0	0	0	0	0	0
ANHFFTVTDPR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0	SFXN1	HUM	Unmodified	1675200	1694800	1787800	0	0	0	0	0	0
ANHFFTVTDPR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0	SFXN1	HUM	Deamidation (N)	7572300	9064400	8008700	53934	15069	26799	0	0	0
ANHFFTVTDPRNILLTNEQLESAR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0	SFXN1	HUM	Unmodified	678520	921780	847690	0	0	0	0	0	0
ANIGDAQAMGQQPITFLR	GPT2; GPT2	Q8TD30; H3BU54	ALAT2	HUM	Oxidation (M)	4564100	5547700	4600900	34357	26013	19272	0	0	0
ANINVENAFFTLAR	RAB8A	P61006	RAB8A	HUM	Unmodified	1855400	2054600	2012300	0	0	0	0	0	0
ANIRLPPEVNR	SF3B6	Q9Y3B4	SF3B6	HUM	Unmodified	1118200	0	1033100	0	0	0	0	0	0
ANIVAYHDSIMNPDYNVEFFR	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUM	Oxidation (M)	9502600	5677200	4833100	0	0	0	0	0	0
ANIVHLMLSSPEQIQK	CSE1L	P55060	XPO2	HUM	Oxidation (M)	4000900	3275200	4573700	0	0	0	0	0	0
ANKGPSYGMSR	TAGLN; TAGLN	Q01995; E9PJ32	TAGL	HUM	Acetyl (Protein N-t	0	927070	0	2034700	1813600	1933600	14802000	17625000	14816000
ANKGPSYGMSR	TAGLN; TAGLN	Q01995; E9PJ32	TAGL	HUM	Acetyl (Protein N-t	0	466040	514840	1375000	1376800	1365000	2390500	369460	513310
ANKGPSYGMSREVQSK	TAGLN; TAGLN	Q01995; E9PJ32	TAGL	HUM	Acetyl (Protein N-t	0	0	0	101940	209830	0	1273200	959090	1206500
ANKGPSYGMSREVQSK	TAGLN; TAGLN	Q01995; E9PJ32	TAGL	HUM	Acetyl (Protein N-t	0	0	0	205800	160180	181640	779940	823620	1024600
ANLGVFSVFAPR	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Unmodified	1637600	1731300	1585500	0	0	0	0	0	0
ANLGVFSVFAPR	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Deamidation (N)	260440	200340	0	0	0	0	0	0	0
ANLLNNEAHAITMQVTK	RECQL	P46063	RECQ1	HUM	Oxidation (M)	2382300	2563800	2443500	0	15332	0	0	0	0
ANLLNNEAHAITMQVTK	RECQL	P46063	RECQ1	HUM	Oxidation (M);Dea	719200	1600400	1804500	0	69264	0	0	0	0
ANLLNNEAHAITMQVTK	RECQL	P46063	RECQ1	HUM	Oxidation (M);2 De	405490	428250	734340	0	0	0	0	0	0
ANLPQSFQVDTSK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Unmodified	3233200	3037500	1669000	162740	112250	136590	730150	682240	532190
ANLPQSFQVDTSKAGVAPLQVK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Methyl (KR)	18581000	20171000	17837000	80232	46680	0	1603500	346710	1216800
ANLPQSFQVDTSKAGVAPLQVK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Unmodified	0	0	0	211060	0	0	2359500	632260	1630700
ANLQIDQINTDLNLER	MYH9	P35579	MYH9	HUM	Unmodified	5734300	3150100	3835300	19589	0	0	54066	0	0
ANLQIDQINTDLNLER	MYH9	P35579	MYH9	HUM	Deamidation (N)	1177500	0	1331800	0	8448.9	0	13083	0	0
ANNLSSLSK	SEC22B	O75396	SC22B	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
ANPDLPILIR	NDUFA2	O43678	NDUA2	HUM	Unmodified	1034100	648640	755420	13777	15106	14693	0	0	0
ANPFFVLQR	TBC1D9B; TBC1D9B	Q66K14; E5RIN2	TBC9B	HUM	Unmodified	1913900	2171200	2127800	80325	65231	79929	0	0	0
ANPQLGAYAPPPHVIGR	APOL2	J3KQL8	J3KQL8	HUM	Unmodified	0	0	461030	258980	231250	189850	113520	0	0
ANPQVGVAFPHIK	XRCC5	P13010	XRCC5	HUM	Unmodified	2849700	2928700	2549600	53098	60604	98592	0	0	0
ANQLAEEIESSAQYK	ATXN2; ATXN2; AT	Q99700; A0A5F9	ATX2	HUM	Unmodified	1343600	1332400	966360	74917	51628	56463	0	0	0
ANQLAEEIESSAQYKAR	ATXN2; ATXN2; AT	Q99700; A0A5F9	ATX2	HUM	Unmodified	0	0	0	243950	60116	167890	0	37043	0
ANQVATGIR	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV	HUM	Unmodified	5910200	6144100	8320300	85974	97559	95024	0	0	0
ANRGPAYGLSR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Acetyl (Protein N-t	31627000	32047000	35220000	79511	239060	639620	146030	0	130140
ANRLLNNAFEELVAFQR	MCM3	P25205	MCM3	HUM	2 Deamidation (N)	266500	135240	253050	0	0	0	0	0	0
ANSFTVSSVAAPSWLHR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Deamidation (N)	1085000	1651600	1286400	0	0	0	0	0	0
ANSNLVLQADR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Deamidation (N)	1111900	1324700	1430700	80840	0	0	0	0	0
ANTFVAELK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	15792000	12508000	13122000	431040	538170	571090	18038	0	0
ANTFVAELKGLDPAR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	7632400	6127600	3114900	0	0	0	0	0	0
ANTFVAELKGLDPAR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Deamidation (N)	1872700	2063000	1562800	0	0	0	0	0	0
ANTFVAELKGLDPARVNVPVIGGHAGK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	0	1131200	1387600	0	0	0	0	0	0
ANTVLERVEGAQQR	TMEM9; TMEM9	Q9P017; B1ALM	TMEM9	HUM	Unmodified	757630	815770	613690	0	74581	45873	0	0	0
ANVAVVSGAPLQGQLVAR	SDCBP	O00560	SDCB1	HUM	Unmodified	1123700	1070200	1071600	0	0	19926	0	0	0
ANVDISAPK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	0	211730	213800	0	0	0
ANVDKVFFDLMR	RALA; RALB	P11233; P11234	RALA	HUM	Oxidation (M)	4101000	0	0	0	0	0	0	0	0
ANVELDHATLVR	TBL2; TBL2; TBL2;	Q9Y4P3; Q96E41	TBL2	HUM	Unmodified	442480	414270	720700	194560	120930	138860	29185	0	0
ANVNEILDFFHGYR	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B	HUM	Unmodified	2520700	2071700	2550500	0	0	0	0	0	0
ANVNEILDFFHGYR	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B	HUM	Deamidation (N)	1342700	958620	1079100	0	0	0	0	0	0
ANVVGEVR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	712550	1441100	1499300	134370	51878	156060	0	0	0
ANWYFLLAR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	4228700	6103500	5321000	0	0	0	0	0	0
ANWYFLLAR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Deamidation (N)	563890	202610	469340	0	0	0	0	0	0
ANYDVLESQK	PSMD9; PSMD9; PSI	O00233; J3KN29;	PSMD9	HUM	Unmodified	2208300	0	0	115740	126620	89193	0	0	0
APAAAPFVPFSGGGQR	ASPSCR1; ASPSCR1	Q9BZE9; J3KRY8	ASPC1	HUM	Unmodified	0	0	0	153580	132400	251670	52004	52789	43870
APAEEEVGPR	CAMSAP3	Q9P1Y5	CAMP3	HUM	Unmodified	2679500	1791000	0	346650	282860	326460	0	0	0
APAEGVLTLR	EPS8L2; EPS8L2	Q9H6S3; A0A3B3	ES8L2	HUM	Unmodified	0	0	0	32231	0	35873	0	0	0
APAEILNGKEISAQIR	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC	HUM	Deamidation (N)	16856000	12250000	10183000	56110	63926	76075	0	13791	0
APAFRDYVAVAR	PRKDC	P78527	PRKDC	HUM	Unmodified	2694300	2978900	3855400	165560	161500	162280	0	0	23019
APAGDLLPSAFR	FAM83H; FAM83H;	Q6ZRV2; J3KPS2	FA83H	HUM	Unmodified	357330	478460	372100	19991	25082	0	0	0	0
APAGQEEPGTPPSSPLSAEQLDR	UNG; UNG; UNG	P13051; Q6SDM5	UNG	HUM	Unmodified	0	1118600	0	0	0	0	0	0	0
APAGQLPR	MCM3; MCM3; MCM	P25205; A0A499	MCM3	HUM	Unmodified	3884200	5162200	4609700	53268	48150	60974	0	0	0
APAMFNIR	RPS3A; RPS3A; RPS	P61247; H0Y8L7;	RS3A	HUM	Oxidation (M)	4260100	4843800	3855200	91229	95647	91537	0	0	0
APAMQPAEIQFAQR	RRP1B	Q14684	RRP1B	HUM	Oxidation (M)	677380	688300	0	0	0	0	0	0	0
APAPAPPGTVTQVDVR	EPS8; EPS8; EPS8; E	Q12929; A0A2R8	EPS8	HUM	Unmodified	982850	779490	0	0	0	41561	0	0	0
APAPKPELIAAEK	CD2AP	Q9Y5K6	CD2AP	HUM	Unmodified	1316900	809660	1018500	24266	50935	37708	0	0	0
APAPVVLGSPVVLGPPVGQAR	ZNF574; ZNF574	Q6ZN55; A0A0C4	ZN574	HUM	Unmodified	1030600	943750	1051100	20915	0	17287	0	0	0
APAQKAPAPK	RPL14	P50914	RL14	HUM	Unmodified	0	0	0	258000	242900	232280	0	0	0
APASEEEFQFLR	PML; PML	P29590; H3BT57	PML	HUM	Unmodified	667850	0	0	0	50944	0	22234	31015	0
APASVLPAATPR	PRKAR2A; PRKAR2	P13861; C9J830	KAP2	HUM	Unmodified	4776300	4773600	4636000	397460	436710	383180	87479	79771	80722
APAVAVAPTPVQPPIIVAPVATVPAMPQEK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1	HUM	Oxidation (M)	3339300	2426600	2562300	28487	0	0	0	0	0
APDDLVAPVVK	PRPF4	O43172	PRP4	HUM	Unmodified	0	639440	1230500	46871	43980	42890	0	0	0
APDFLPLLNK	RP2	O75695	XRP2	HUM	Unmodified	1100300	647910	206100	0	0	0	0	0	0
APDFVFYAPR	RDX; EZR; MSN; RI	P35241; P15311;	RADI	HUM	Unmodified	14703000	10112000	12665000	404900	372880	438860	0	46360	0
APDGYIVK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUM	Unmodified	2554000	2170600	2384200	340300	358260	383850	0	0	0
APDLEYLFEKPR	SDHAF2; SDHAF2	Q9NX18; F5GYJ5	SDHF2	HUM	Unmodified	3420300	3166600	2023300	28834	0	0	0	0	0
APDPAYIYDEFLQQR	GSE1; GSE1	Q14687; H0Y613	GSE1	HUM	Unmodified	302560	1298600	1280200	0	0	0	0	0	0
APDVEQAIEVLTR	CUX1; CUX1; CUX1	Q13948; P39880;	CASP	HUM	Unmodified	0	323980	0	0	0	0	0	0	0
APDVTTLPR	NCSTN; NCSTN; NC	Q92542; H0Y3Z4;	NICA	HUM	Unmodified	3096500	2423400	2726200	150510	153220	85699	0	0	0
APEAAVSEDGKSDDELLSSK	NAV1; NAV1	Q8NEY1; A0A0A	NAV1	HUM	Unmodified	0	0	530410	0	0	16872	0	0	0
APEDAGPQPGSYEIR	HEBP2; HEBP2	Q9Y5Z4; Q5THN	HEBP2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
APEDVIQALEEK	METTL16	Q86W50	MET16	HUM	Unmodified	0	1087800	475240	0	11391	11694	0	0	0
APEEELPPLDPEEIRK	RAVER1; RAVER1;	Q8IY67; E9PAU2	RAVR1	HUM	Unmodified	0	684970	0	26627	0	0	0	0	0
APEIIIGK	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Unmodified	0	1140400	1210000	28004	35628	42321	0	0	0
APEIMLNSK	MAPK3; MAPK1; M	P27361; P28482;	MK03	HUM	Oxidation (M);Dea	1770600	163260	1941500	0	0	144790	0	0	0
APEIMLNSKGYTK	MAPK3; MAPK1; M	P27361; P28482;	MK03	HUM	Oxidation (M);Dea	1905100	1209900	1597300	132780	118650	124310	18425	0	20112
APEPGPAGDGGPGAPAR	SNX18	Q96RF0	SNX18	HUM	Unmodified	430570	435700	549660	78617	56220	61071	0	0	0
APEPLSSLK	CNOT3; CNOT3; CN	O75175; H0Y5X7	CNOT3	HUM	Unmodified	760190	691740	621400	0	0	69762	0	0	0
APFDLFENK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	Unmodified	930610	0	880620	0	0	0	0	0	0
APFDLFENR	HSP90AA1	P07900	HS90A	HUM	Unmodified	2927700	3513000	3053100	31859	23148	27713	13850	0	16949
APFDLFENR	HSP90AA1	P07900	HS90A	HUM	Deamidation (N)	853550	977760	738690	0	0	0	0	0	0
APGAEEDDSELQR	NCBP3; NCBP3	Q53F19; K7ELP6	NCBP3	HUM	Unmodified	576170	590520	0	49568	54981	0	0	0	0
APGAIGPYSQAVLVDR	RIDA	P52758	RIDA	HUM	Unmodified	1371100	1329100	1343500	0	0	0	0	0	0
APGEQTVPALNLQNAFR	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	2885600	2963200	4139900	0	0	0	0	0	8647.1
APGEQTVPALNLQNAFR	SUPT16H	Q9Y5B9	SP16H	HUM	Deamidation (N)	658390	605400	697090	0	0	0	0	0	0
APGFAQMLK	CCT8	P50990	TCPQ	HUM	Oxidation (M)	7548600	9351200	8175900	137610	152670	122430	0	0	0
APGFAQMLKEGAK	CCT8	P50990	TCPQ	HUM	Oxidation (M)	939080	1147600	1268400	47085	36083	54161	0	0	0
APGFGDNR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Unmodified	3754900	4944800	3763400	0	0	0	0	0	0
APGPGLAQGLPQLHSLVLR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	3036700	3723600	3476200	0	0	0	0	0	0
APGQLALFSVSDKTGLVEFAR	ATIC; ATIC	P31939; F8WEF0	PUR9	HUM	Unmodified	1611200	550920	1542000	0	0	0	0	0	0
APGSAGHYELPWVEK	RFC2; RFC2; RFC2;	P35250; H7C5P1;	RFC2	HUM	Unmodified	1845300	625630	839770	40472	7633.8	0	0	0	0
APHLAYLR	ACAT2	Q9BWD1	THIC	HUM	Unmodified	2044800	1696300	2111700	66377	57366	31733	0	0	0
APHNGFLSLVGGGLGPVTR	CSPG4	Q6UVK1	CSPG4	HUM	Deamidation (N)	0	0	514580	0	0	0	0	0	0
APHWTSAPLTEASAHSHPPEIKDQGGAGEGLVR	MAP2; MAP2; MAP2;	P11137; E7EV03;	MTAP2	HUM	Unmodified	4772900	3096000	3845300	0	0	0	0	0	0
APHYPGIGPVDESGIPTAIR	SORBS2; SORBS2; S	O94875; H7BZK1	SRBS2	HUM	Unmodified	543520	444540	696150	32706	12811	11033	0	0	0
APIAAPEPELK	EPB41; EPB41; EPB	P11171; A0A2R8	EPB41	HUM	Unmodified	1549000	918870	953110	0	0	0	0	0	0
APIAVTR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	209980000	243930000	210960000	3683700	4018000	3737700	654390	0	770880
APIISGVTK	TPPP	O94811	TPPP	HUM	Unmodified	1090800	961350	1230800	0	0	6708	0	0	0
APILIATDVASR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUM	Unmodified	54174000	52819000	44045000	2009300	1983900	2083500	139050	81235	78118
APILIATDVASRGLDVEDVK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUM	Unmodified	1984000	1821500	748560	0	0	0	0	0	0
APIQWEER	IDH3A; IDH3A; IDH	P50213; H0YM64	IDH3A	HUM	Unmodified	2425500	2094000	2146600	0	0	0	0	0	0
APIRPDIVNFVHTNLR	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4	HUMAN	Deamidation (N)	5114700	4147100	5393000	0	0	0	0	0	0
APIRPDIVNFVHTNLR	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4	HUMAN	Unmodified	4300900	4290600	4087400	0	0	0	0	0	0
APKPDGPGGGPGGSHMGGNYGDDR	FUS; FUS	P35637; H3BPE7	FUS	HUMAN	Oxidation (M)	4268300	4003100	4176900	0	0	282570	588770	0	0
APLAGPSAAAR	SAPCD2	Q86UD0	SAPC2	HUM	Unmodified	548690	450960	463980	0	0	0	0	0	0
APLDIPVPDPVK	PSME1	Q06323	PSME1	HUM	Unmodified	2930500	2480200	2939800	31116	32590	44054	0	0	0
APLDIPVPDPVKEK	PSME1	Q06323	PSME1	HUM	Unmodified	2838500	2651300	3534000	65176	56931	52065	0	0	0
APLDIPVPDPVKEKEKEER	PSME1	Q06323	PSME1	HUM	Unmodified	1925100	973140	2266700	39959	34057	79459	0	0	0
APLDLDKYVEIAR	PPP6C	O00743	PPP6	HUM	Unmodified	1539300	1754600	2506100	27479	19688	0	19132	0	0

APLEVAQEH	PLPBP	O94903	PLPHP	HUM	Unmodified	3224400	0	2248600	0	198520	0	0	0	0
APLPDLYPFGTMR	DDX17; DDX17; DD(	O92841; A0A1X7	DDX17	HUM	Oxidation (M)	26426000	29851000	24638000	675670	636300	510250	282160	209730	233040
APLVCLPVFVSR	C11orf54; C11orf54; (	Q9H0W9; A0A08	CK054	HUM	Unmodified	0	235970	304700	0	0	0	0	0	0
APLVKVEEATVEER	MAP7; MAP7	Q14244; A0A087	MAP7	HUM	Unmodified	505190	743910	795910	318090	168770	179580	0	0	0
APLVPPGSPVVNALFR	ISYNA1; ISYNA1	Q9NPH2; J3QS51	INO1	HUM	Unmodified	725770	816840	948970	0	0	0	0	0	0
APMAAQGMVETR	GNA13	Q14344	GNA13	HUM	2 Oxidation (M)	994730	1139600	1148300	48715	0	0	0	0	0
APMVNPTLGVHEADLLK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM	HUM	Oxidation (M)	9760500	10927000	13319000	0	0	0	0	0	0
APNVVVTR	ARHGDIB; ARHGDI	P52566; E5H2R5;	GDIR2	HUM	Unmodified	1740900	1828900	1910000	108950	142760	122630	41155	0	0
APPAPGPASGGSGEVDELFDVK	COPE; COPE; COPE	O14579; M0R061	COPE	HUM	Unmodified	1810900	1581100	1964700	85509	59419	42063	0	0	0
APPCEYKDWLTK	PRKDC	P78527	PRKDC	HUM	Unmodified	2529100	1693300	0	47722	46566	0	0	0	0
APPGAPGPGPGSGAPGSQEEEEEPGLVEGDPGDGAIEDPELEAIK	PABPN1	Q86U42	PABP2	HUM	Unmodified	3473700	0	3363000	0	0	0	0	0	0
APPGAPGPGPGSGAPGSQEEEEEPGLVEGDPGDGAIEDPELEAIKAR	PABPN1	Q86U42	PABP2	HUM	Unmodified	4998300	10343000	8375100	0	0	0	0	0	0
APPGPAGLSGGESLLVK	STRN4; STRN4; STR	Q9NRL3; R4GNI4	STRN4	HUM	Unmodified	2418000	1930100	2028700	0	0	0	0	0	0
APPNATLEHFYLTSGK	CERS2; CERS2; CER	Q96G23; Q5SZE4	CERS2	HUM	Unmodified	0	535150	602290	0	0	0	0	0	0
APPPLPPVYSMETETPTAEDIQLLKR	PPP2R5D; PPP2R5D	O14738; H0Y8C4	2A5D	HUM	Oxidation (M)	2176700	2693900	1764400	0	0	0	0	0	0
APPPVAYNPIHSPSYPLAALK	SYNPO2; SYNPO2	Q9UMS6; H0Y9Y	SYNP2	HUM	Unmodified	0	0	0	0	0	0	0	0	121810
APPQTHLPSGASSGTGSASATHGGGSPPGTR	BAG6; BAG6; BAG6	P46379; A0A1B0	BAG6	HUM	Unmodified	829370	1164600	0	0	0	0	0	0	0
APPSVFAEVPQAQPVLVFK	GOT1	P17174	AATC	HUM	Unmodified	9691900	9708700	12104000	0	8871.6	0	13077	0	0
APPTELLARPER	PON2	A0A0J9YXF2	A0A0J9YXF2	HUM	Unmodified	0	3914400	6631100	0	0	774150	0	0	0
APPVDDAEVDELVLQTK	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	941600	593840	848260	15979	0	0	0	0	0
APPVDDAEVDELVLQTKR	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	1062500	1029800	1088100	28618	0	0	0	0	0
APPVPAPAR	CC2D1A; CC2D1A; (	Q6P1N0; A0A7P0	C2D1A	HUM	Unmodified	493420	1429500	310680	17914	26439	22393	0	0	0
APPYQEPPWGGPATAPYSLETLK	SLC4A1AP; SLC4A1	Q9BWU0; A0A08	NADAP	HUM	Unmodified	1670700	1408400	1720400	0	0	0	0	0	0
APQAPLHSVVQQLHGK	RPS6KA1; RPS6KA1	Q15418; E9PGT3	KS6A1	HUM	Unmodified	923590	522740	587830	0	0	0	0	0	0
APQDVEMKDLEDES	C11orf98	E9PRG8	CK098	HUM	Oxidation (M)	510160	440070	540070	0	0	0	0	0	0
APQETYADIGGLDNQIQEIK	PSMC1; PSMC1	P62191; G3V4X1	PRS4	HUM	Unmodified	1172100	1107900	884870	0	0	0	0	0	0
APQFQESVGSFR	RPRD2	Q5VT52	RPRD2	HUM	Unmodified	1221700	1461000	1361100	81753	88010	61053	0	0	0
APQLLIAPFKEEDEWDSPHIVR	P4HA2	O15460	P4HA2	HUM	Unmodified	0	1450400	1226500	0	0	0	0	0	0
APQLVGQFIAR	PDCD4	Q53EL6	PDCD4	HUM	Unmodified	4287000	4903400	4724200	67462	48349	81017	0	89659	94162
APQMYEFHLPLSPEELLK	NCAPD2; NCAPD2;	Q15021; F5H431;	CND1	HUM	Oxidation (M)	892830	0	1087700	0	0	0	0	0	0
APQVLVLAPTR	DDX21	Q9NR30	DDX21	HUM	Unmodified	7373900	5958800	5858500	75597	82003	100670	0	0	0
APQVVAEAAK	DKC1	O60832	DKC1	HUM	Unmodified	4255700	4277500	4431800	234120	191920	195030	0	0	0
APSIIFIDELDAIGTK	PSMC3; PSMC3; PSI	P17980; E9PN50;	PRS6A	HUM	Unmodified	528430	253410	428730	0	0	0	0	0	0
APSIIFIDELDAIGTKR	PSMC3; PSMC3; PSI	P17980; E9PM69;	PRS6A	HUM	Unmodified	279900	232230	209370	0	0	0	0	0	0
APSPAPSSVPLGSEKPSNVSQDR	ANKRD17; ANKRD1	O75179; H0YM23	ANR17	HUM	Unmodified	1549300	593290	776170	0	22661	43473	0	0	0
APSQLPLSGSR	KIFC1; KIFC1; KIFC	Q9BW19; A0A14(	KIFC1	HUM	Unmodified	929660	787700	922710	0	0	0	0	0	0
APSRQDVYGPQPQVR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	Unmodified	2414100	3496000	3269100	0	312620	82748	0	111410	94836
APSTPLLTVR	EIF2A; EIF2A; EIF2A	Q9BY44; F8WAT	EIF2A	HUM	Unmodified	4663400	5910400	5967200	556260	634030	587420	63136	70031	64134
APSTSDSVR	TCEA1; TCEA1; TCI	P23193; A0A1W2	TCEA1	HUM	Unmodified	16595000	13584000	9938200	314830	24678	490860	0	0	63471
APSVPAAEPEYPK	AK2; AK2; AK2; AK	P54819; F8VPP1;	KAD2	HUM	Unmodified	6611300	7449100	7632000	227390	247200	322640	0	24149	0
APSVPAAEPEYPKGIR	AK2; AK2; AK2; AK	P54819; F8VPP1;	KAD2	HUM	Unmodified	3634900	5417200	2958600	2976100	2662000	3171300	782620	835520	719820
APSVPAAEPEYPKGIR	AK2; AK2; AK2; AK	P54819; F8VPP1;	KAD2	HUM	Methyl (KR)	0	1373000	929110	139680	154600	156050	60813	63765	0
APSYIEIFGR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUM	Unmodified	2530300	2930100	2731100	94723	93046	33499	0	24689	0
APTNIVYKIDDMTAAPMDVR	RPA2; RPA2	P15927; Q5TEJ7	RFA2	HUM	2 Oxidation (M)	589280	532180	679680	0	0	57496	0	0	0
APTPGTASR	VWA1	Q6PCB0	VWA1	HUM	Unmodified	0	0	1320600	0	0	198070	190300	259970	323020
APTPGTASREP	VWA1	Q6PCB0	VWA1	HUM	Unmodified	1875300	2029000	1652400	1280400	1262000	1162800	0	640430	0
APTTVEDRVGDSTPVSEKPVSAAVDANASESP	GORASP2	Q9H8Y8	GORS2	HUM	Deamidation (N)	1065800	0	1659400	0	0	197460	0	0	0
APVAGTCYQAEWDDYVPK	PEBP1	P30086	PEBP1	HUM	Unmodified	0	802770	966420	0	0	0	0	0	0
APVASPAALGSTATASPAAPAR	ZNF574; ZNF574	Q6ZN55; A0A0C4	ZN574	HUM	Unmodified	1286800	771460	1090400	55287	53147	77104	0	0	0
APVDFGYVGIDSILEQMR	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9	HUM	Oxidation (M)	1921600	1331700	1224300	0	0	0	0	0	0
APVDFGYVGIDSILEQMRR	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9	HUM	Oxidation (M)	0	2284000	2155600	0	0	0	0	0	0
APVILGSPDDVLEFLK	FBP1; FBP1	P09467; A0A3B3	F16P1	HUM	Unmodified	349970	266830	431510	0	0	0	0	0	0
APVNTAELTDLLIQQNHIGSVIK	BCCIP	Q9P287	BCCIP	HUM	Unmodified	600490	541550	949480	0	0	0	0	0	0
APVNTAELTDLLIQQNHIGSVIK	BCCIP	Q9P287	BCCIP	HUM	Deamidation (N)	0	348270	643620	0	0	0	0	0	0
APVPASELLASGVLSR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	5847800	4983300	5572500	231110	0	129720	24560	45284	21065
APVPGTPDSLSSGSSR	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Unmodified	10125000	11190000	10767000	222620	0	352830	0	0	0
APVPGTPDSLSSGSSRDVQGTDASLDEELDRVK	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Unmodified	0	2871300	4822600	0	0	0	0	0	0
APVPTGEVVFADSFDR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	5198000	7859900	7824100	61661	61396	0	44389	0	0
APVQPQQSPAAAPGGTDEKPSGK	PSMD2; PSMD2; PSI	Q13200; F8WBS8	PSMD2	HUM	Unmodified	1712300	1484000	1704400	0	0	0	0	0	0
APVTVTSLPAGVR	HCFC1; HCFC1	P51610; A6NEM2	HCFC1	HUM	Unmodified	851390	583510	1046700	25555	34139	34557	0	0	0
APWIEQEGPEYWDR	HLA-B; HLA-B; HLA	P01889; D3HJ35;	HLAB	HUM	Unmodified	676360	597540	587210	0	0	0	0	0	0
APWIEQEGPEYWDRNTR	HLA-A; HLA-A; HLA	A0A1W2PR61; A	A0A1W2PR61	HUM	Unmodified	932830	0	1196600	43523	0	0	44033	0	45728
APWVEQEGPEYWDRETQK	HLA-C; HLA-C; HLA	P10321; Q5QT33;	HLAC	HUM	Unmodified	1237000	1552900	1338000	46768	50407	46069	0	0	16435
APXAAAPASVPAQAPK	RPL29; RPL29	P47914; A0A3B3	RL29	HUM	Unmodified	11756000	12722000	14074000	949480	1015300	912280	0	27042	0
APXAAAPASVPAQAPKR	RPL29; RPL29	P47914; A0A3B3	RL29	HUM	Unmodified	1448800	1188000	1270700	150570	94117	183090	0	0	0
AQAALAVNISAAR	CCT6A	P40227	TCPZ	HUM	Unmodified	988520	1029300	1364000	0	0	0	0	0	0
AQAAPAVGPR	NSMCE3	Q96MG7	NSE3	HUM	Unmodified	830600	1238900	336320	23131	16389	54933	0	0	0
AQADLALEK	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	3851400	4468300	4059300	205500	239940	235910	0	0	0
AQAEAQQPTFDALRDELR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	4826800	2972700	5514900	147570	121720	0	18453	20978	0
AQAELENVSGALNEAESK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Unmodified	2255300	0	1665600	0	18707	0	0	0	0
AQAELENVSGALNEAESK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Deamidation (N)	0	2613100	2041200	31729	23537	25279	0	0	0
AQAELENVSGALNEAESKTIRLSK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Deamidation (N)	482250	586240	525480	0	0	0	0	0	0
AQAELVGTADEATR	ATP5F1D	P30049	ATPD	HUM	Unmodified	3844900	4632700	4235100	0	0	0	0	0	0
AQAEQAALR	PLEC	Q15149	PLEC	HUM	Unmodified	1207000	1093300	1151600	398080	533210	526830	45012	0	0
AQAEQQHNPAANPTMIR	CNOT1; CNOT1	A5YKK6; H3BM2	CNOT1	HUM	Oxidation (M)	0	0	2239700	88361	70216	117350	0	0	0
AQAEVEGLGK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	2687000	541330	2652100	292020	281870	281820	0	0	0
AQAEVEGLGKGVAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	1335300	1209800	1146300	229030	230870	338290	35902	0	48806
AQAGEGVRPSPMQLELR	PDXK; PDXK	O00764; F2Z2Y4	PDXK	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
AQALEDLAGFK	MKI67	P46013	KI67	HUM	Unmodified	1161100	1122900	728570	0	0	0	10445	0	0
AQALEDLAGFKELFQTPGHTEELVAAGK	MKI67	P46013	KI67	HUM	Unmodified	805600	706310	572620	0	0	0	0	0	0
AQALEDLAGFKELFQTPGTDKPTTDEK	MKI67	P46013	KI67	HUM	Unmodified	1477600	798400	1369300	0	0	0	0	0	0
AQALEDLAGFKELFQTR	MKI67	P46013	KI67	HUM	Unmodified	3164200	3920800	3537200	0	0	0	0	0	0
AQALRDNSTMGYMAAK	HSP90AA1	P07900	HS90A	HUM	2 Oxidation (M);De	12023000	14652000	15169000	377230	82327	0	0	0	0
AQALRDNSTMGYMAAK	HSP90AA1	P07900	HS90A	HUM	2 Oxidation (M)	4330000	4687900	4369400	340130	260540	191640	0	0	0
AQALRDNSTMGYMMAK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	3 Oxidation (M)	5053200	4909300	7302900	178510	221780	199490	0	0	0
AQALRDNSTMGYMMAK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	3 Oxidation (M);De	15874000	14222000	15934000	458310	324890	386800	0	0	10197
AQASEILLEELQQGLSQAKR	RABEP1	Q15276	RABE1	HUM	Unmodified	1177600	744290	1246700	0	0	0	0	0	0
AQASSIPVGSR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	7442700	7065700	5398200	131500	0	180100	0	0	0
AQATIPLLGYVVDEMPR	FGD4; FGD4; FGD4;	Q96M96; B7Z493	FGD4	HUM	Oxidation (M)	1521700	1497700	1606400	0	0	0	0	0	0
AQAVHPGYGFLSENKEFAR	PCCA; PCCA; PCCA	P05165; A0A1B0	PCCA	HUM	Unmodified	0	0	0	67905	70563	98563	0	0	24942
AQAVLEEDHYGMEDVK	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Oxidation (M)	1250900	942520	1086100	16179	0	0	0	0	0
AQAVLQQYQHLPSFR	VPS51; VPS51; VPS	Q9UID3; E9PJ36;	VPS51	HUM	Unmodified	0	0	0	81721	64330	0	0	49861	0
AQAVQESER	PHLDB1; PHLDB1	Q86UU1; A0A087	PHLB1	HUM	Unmodified	313750	359710	489990	0	8809.8	0	0	0	0
AQAVSEDAGGNEGRAAEAEPR	EIF3B; EIF3B	P55884; C9JZG1	EIF3B	HUM	Deamidation (N)	1787800	1751400	1899500	68718	0	195740	0	0	0
AQAVTQPVPLANKPVPAQSTFPSK	YLPM1; YLPM1	P49750; H0YIQ2	YLPM1	HUM	Unmodified	1259000	1429400	1283500	63252	66521	106270	0	0	0
AQAYQTGK	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL	HUM	Unmodified	5490700	5005600	0	352210	0	116760	0	0	0
AQAYQTGKDISTNYYASQK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL	HUM	Deamidation (N)	727130	797910	691910	0	0	0	0	0	0
AQAYQTGKDISTNYYASQKK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL	HUM	Deamidation (N)	1705800	2033900	1900600	0	0	0	0	0	0
AQCGGGLLGVR	VCAN; VCAN; VCA	P13611; Q86W61;	CSPG2	HUM	Unmodified	1465300	0	1070700	74098	71407	58985	133320	140500	149840
AQCPIVER	RPS5; RPS5; RPS5	P46782; M0R0R2	RS5	HUM	Unmodified	2543400	0	2057800	79535	0	79276	0	0	0
AQDDLTLR	PPP1R13L	Q8WUF5	IASPP	HUM	Unmodified	856140	811670	445420	0	28625	29111	0	0	0
AQDEAFALQDVPLSSVVR	MRPL11; MRPL11	Q9Y3B7; H0YCD	RM11	HUM	Unmodified	0	1429800	1024400	0	0	0	0	0	0
AQDEGLLSDVVPFK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUM	Unmodified	377250	396910	474650	0	0	0	0	0	0
AQDEGLLSDVVPFKVPGK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUM	Unmodified	2823700	1122500	539730	0	0	0	0	0	0
AQDEGLLSDVVPFKVPGKDTVTK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUM	Methyl (KR)	1713100	1864100	1806400	0	0	0	0	0	0
AQDPDQLR	DPP3; DPP3; DPP3;	Q9NY33; G3V1D	DPP3	HUM	Unmodified	0	0	1227500	0	0	0	0	0	0
AQDQGEKENPMR	RPL11	P62913	RL11	HUM	Acetyl (Protein N-t	5812300	5811900	0	0	0	0	0	0	0
AQDQGEKENPMRELR	RPL11	P62913	RL11	HUM	Acetyl (Protein N-t	18650000	21407000	20960000	3865200	1656000	1660800	0	0	0
AQDRLIEVNGQNVEGLR	SLC9A3R2; SLC9A3	Q15599; H3BUQ9	NHRF2	HUM	Deamidation (N)	467550	0	0	25031	0	22129	15765	0	0
AQDVLVQEMEVVK	CDC5L	Q99459	CDC5L	HUM	Oxidation (M)	1606300	1481800	2104600	20788	0	61870	0	0	0
AQEAEQLLR	LAMB2	P55268	LAMB2	HUM	Unmodified	0	590650	519870	179990	99446	215380	0	0	0
AQEAPGQAEPPAAAEVQGAGNENEPR	SLC9A3R1; SLC9A3	O14745; J3QRP6	NHRF1	HUM	Unmodified	1841200	1099400	1212600	0	0	0	0	0	0
AQEDISR	RNF20; RNF40; RNF	Q5VTR2; O75150	BRE1A	HUM	Unmodified	1060900	1400800	1691200	20013	0	0	0	0	0
AQEEAERLEADR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Unmodified	4215500	4145400	3454100	478140	366210	432420	0	0	0
AQEEAKEAEMSRKELGLDEGVDSLK	DNAJC9	Q8WXX5	DNJC9	HUM	Oxidation (M)	1074600	1703000	1165900	0	0	0	0	0	0
AQEEPPAKLLDDLFR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU	HUM	Unmodified	1749400	1898400	1441500	0	0	0	0	0	0
AQEKMELDLEPDTSYGGTLRR	PABIR2; PABIR2	Q7Z309; G1UD79	PBIR2	HUM	Acetyl (Protein N-t	976210	898900	1141800	98604	89868	67640	0	0	0
AQELGHSQSALASAQR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	3784200	3619500	3833800	98856	91592	97694	0	0	0
AQELQKVQELQQQSAR	MYH14; MYH14	Q7Z406; M0QY43	MYH14	HUM	Unmodified	2820400	1716100	2251200	129830	135360	27862	0	0	0
AQEPESGLSEETQVK	PRKDC	P78527	PRKDC	HUM	Unmodified	4518000	4017700	3933300	558560	163160	401690	0	0	0
AQEQQQQMAELHSK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Oxidation (M)	0	0	1653000	0	0	0	0	0	0
AQEWMEALKIAANVAR	PLEKHM3; PLEKHM	Q6ZWE6; C9J119	PKHM3	HUM	Oxidation (M);Deai	205840	197540	6827300	299960	0	268240	0	0	0
AQFAEATQR	UFL1	O94874	UFL1	HUM	Unmodified	1283800	1598000	1678000	233950	189080	317370	0	0	0
AQFAQPEILIGTIPGAGGTQR	ECHS1	P30084	ECHM	HUM	Unmodified	11971000	13289000	11093000	211250	0	73158	53129	39981	0
AQFEGIVTDLIR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Unmodified	32672000	41886000	44023000	0	35962	0	66027	35544	0
AQFEGIVTDLIRR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Unmodified	38308000	30811000	50825000	43022	19620	0	33258	0	18662
AQFFVEDASTASALK	NXF1; NXF1; NXF1;	Q9UBU9; E9PIN3	NXF1	HUM	Unmodified	663870	1442200	471470	0	0	14702	0	0	0
AQFLVEK	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2	HUM	Unmodified	0	0	339110	339920	405950	395290	25975	18484	0
AQFLVEKAKQEQR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2	HUM	Unmodified	174960	152410	183160	45923	58488	66779	0	0	0
AQFSVAGVHTVPGSPQAR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	2637400	1863200	2387900	485320	580570	468730	295500	0	281320
AQGEKPLAGAK	AHCYL1; AHCYL2;	O43865; Q96HN2	SAHH2	HUM	Unmodified	0	495230	392500	0	0	0	0	0	0
AQGGSSDSSLALHER	GOLGA3	Q08378	GOGA3	HUM	Unmodified	780770	1154200	1733800	13675	20424	0	0	0	0

AQGIAQGAIR	LAMB2	P55268	LAMB2	HUM	Unmodified	658500	0	751970	184590	208890	312490	91701	69930	0
AQGLLSAGHPEGEQIIR	SPTB; SPTB	P11277;	SPTB1	HUM	Unmodified	1528900	1268000	1587300	0	0	0	0	0	0
AQGMPEGGGALAEGFQVR	MFN2; MFN2; MFN2	O95140;	A0A6Q8	MFN2	HUM	Oxidation (M)	0	1426200	1870900	0	0	0	0	0
AQGPAASAEEPKPVEAPAANSDQTVTVKE	BASP1	P80723	BASP1	HUM	Unmodified	2024100	1146700	2278600	311500	282720	1726900	0	0	0
AQGPAASAEEPKPVEAPAANSDQTVTVKE	BASP1	P80723	BASP1	HUM	Deamidation (N)	8568600	6103700	7047800	937720	3620300	3327000	0	0	78080
AQGWAPLKPLPPSAK	CPNE1; CPNE1; CPN	Q99829;	B0QZ18;	CPNE1	HUM	Unmodified	857820	928010	969750	0	0	0	0	0	0
AQGWAPLKPLPPSAKDPAQAPQA	CPNE1; CPNE1; CPN	Q99829;	B0QZ18;	CPNE1	HUM	Unmodified	5292900	3476500	4961500	22434	0	0	0	0	0
AQHEDQVEQVKK	LMNA; LMNA; LMN	P02545;	A0A6Q8	LMNA	HUM	Unmodified	2206400	1872900	1486400	167350	128250	128580	0	0	0
AQHLSPAPGLAQPAAPAQASAAIPAAGK	SARG	Q9BW04	SARG	HUM	Unmodified	0	0	0	634200	550590	545120	394720	421380	341060
AQHPDYSFGELSR	PBRM1; PBRM1	Q86U86;	E7EVG2	PB1	HUMAN	Unmodified	705420	622920	834880	0	29652	19779	0	0	0
AQHTLPQDPAIVQSSLGSASASPFQPHVPYSPFR	LSM14B; LSM14B; L	Q9BX40;	A0A0C4	LS14B	HUM	Unmodified	0	0	1063400	0	0	0	0	0	0
AQHVFQHAVPQEGKPITNQK	BLMH; BLMH; BLM	Q13867;	J3KS79;	BLMH	HUM	Unmodified	1940300	1382400	0	87085	91739	71144	0	0	0
AQHVFQHAVPQEGKPITNQK	BLMH; BLMH; BLM	Q13867;	J3KS79;	BLMH	HUM	Deamidation (N)	1304800	0	1121200	0	0	0	0	0	0
AQIDNLTR	DSP	P15924	DESP	HUM	Unmodified	0	7859100	0	0	0	0	0	0	0
AQIEDTLR	CCDC124; CCDC124	Q96CT7;	M0R2F5	CC124	HUM	Unmodified	5682500	5378900	5227000	586140	206870	204110	0	0	0
AQIFANTVDNAR	KRT18; KRT18	P05783;	F8VZY9	K1C18	HUM	Deamidation (N)	745410	980000	608550	0	0	0	0	0	0
AQIFANTVDNAR	KRT18; KRT18	P05783;	F8VZY9	K1C18	HUM	Unmodified	1377300	1471300	1424200	340230	0	234050	0	0	0
AQIHALEGGEVK	LIG1; LIG1; LIG1	P18858;	M0R0Q7	DNLI1	HUM	Unmodified	2419000	2016000	2614200	0	0	0	0	0	0
AQIHDLVLVGGSTR	HSPA1A; HSPA1B; I	P0DMV8;	P0DMV	HS71A	HUM	Unmodified	15261000	18632000	16168000	55713	16503	66257	0	0	0
AQILDKATEYIQYMR	MAX; MAX; MAX; M	P61244;	Q6V3B1;	MAX	HUM	Oxidation (M)	1145300	977810	728010	0	0	0	0	0	0
AQIPILR	APOB	P04114	APOB	HUM	Unmodified	813230	765850	982370	30339	55128	46498	0	0	0
AQIQEQK	MACF1; DST; DST; I	Q9UPN3;	O03001	MACF1	HUM	Unmodified	459070	410990	0	109520	70991	127490	0	0	0
AQITGYR	FN1	P02751	FINC	HUM	Unmodified	2309600	1952200	2556400	69242	52118	55945	0	10982	0
AQIWDTAGQER	RAB11A; RAB11B; I	P62491;	Q15907;	RB11A	HUM	Unmodified	3170200	2898900	1672300	0	0	37647	0	0	0
AQKDEEKMEIQEIQLK	TPM1; TPM1; TPM1	P09493;	H0YKJ4;	TPM1	HUM	Oxidation (M)	1867500	1951800	946510	348550	135490	264070	465110	405780	132040
AQKDEEKMEIQEIQLKEAK	TPM1; TPM1; TPM1	P09493;	H0YKJ4;	TPM1	HUM	Oxidation (M)	3187000	1772400	1195600	846240	585770	1042400	2032400	1660500	1853900
AQKELEEQTR	RDX; RDX; RDX	P35241;	A0A2R8	RADI	HUM	Unmodified	0	1115100	632460	294180	138680	0	0	0	0
AQKLADDLSTLQEK	NUMA1; NUMA1	Q14980;	A0A087	NUMA1	HUM	Unmodified	1690900	2161100	1943100	168850	0	234320	0	0	0
AQLADSFHLQQFFR	SPTAN1; SPTAN1; S	Q13813;	A0A0D9	SPTN1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
AQLDPAFIK	MPST; MPST	P25325;	B1AH49	THTM	HUM	Unmodified	5120200	3959900	4303000	145330	60374	119270	7708.4	0	0
AQLDPAFIKTYEDIKENLESR	MPST; MPST	P25325;	B1AH49	THTM	HUM	Unmodified	458470	1029900	0	0	0	0	0	0	0
AQLEAHLGQVMESVR	GOLGA2; GOLGA2;	Q08379;	A0A6Q8	GOGA2	HUM	Oxidation (M)	1051900	0	1283200	32194	0	0	0	0	0
AQLEPVASPAK	PLEC; PLEC	Q15149;	H0YDN1	PLEC	HUM	Unmodified	454510	816910	1576600	63586	47887	57254	0	0	0
AQLEQGGVGIRR	CC2D1A; CC2D1A;	Q6P1N0;	A0A7P0	C2D1A	HUM	Unmodified	1701600	1528200	1298000	54641	40413	61959	0	0	0
AQLFALTGVQPAR	USP14; USP14; USP1	P54578;	J3KS55;	UBP14	HUM	Unmodified	16181000	14402000	16136000	168290	162530	146990	0	0	0
AQLGEDIR	TFG; TFG; TFG; TFG	Q92734;	A0A6Q8	TFG	HUMAN	Unmodified	17057000	15105000	17220000	465500	407510	515970	0	0	0
AQLGGPEAAK	HSPB1; HSPB1; HSP	P04792;	A0A6Q8	HSPB1	HUM	Unmodified	16669000	583170	13185000	1942900	1739100	0	0	109490	0
AQLGGPEAAKSDETAAK	HSPB1; HSPB1; HSP	P04792;	A0A6Q8	HSPB1	HUM	Unmodified	93070000	90030000	69507000	112860000	110690000	104490000	3901800	3253600	4081400
AQLGGPEAAKSDETAAK	HSPB1; HSPB1; HSP	P04792;	A0A6Q8	HSPB1	HUM	Methyl (KR)	3288600	4203000	3286900	2602400	2361900	2219600	288850	235870	267520
AQLLQPTLEINPR	TRAP1; TRAP1	Q12931;	I3L0K7	TRAP1	HUM	Unmodified	6304300	4773000	4913200	29643	29470	73777	0	0	0
AQLLQQTR	COG8; COG8; COG8	Q96MW5;	H3BQV	COG8	HUM	Unmodified	564620	420550	394990	0	0	0	0	0	0
AQLLVVGSPGPVPR	L1CAM	P32004	L1CAM	HUM	Unmodified	991660	807710	985460	0	0	0	0	0	0
AQLNETLTK	KTN1; KTN1; KTN1;	Q86UP2;	B7Z6P3	KTN1	HUM	Unmodified	0	0	1365800	37775	32922	0	0	0	0
AQLPVLLQSGR	COL21A1; COL21A1	Q96P44;	F5GZK2	COLA1	HUM	Unmodified	7517100	8844400	7646100	66178	80447	78026	41416	32115	33715
AQLQLLQK	GOLGA3	Q08378	GOGA3	HUM	Unmodified	0	566500	431850	0	0	0	0	0	0	0
AQLQQHNLEMVGEGTRQ	USF2; USF2	Q15853;	M0QXT0	USF2	HUMA	Oxidation (M)	2155600	1577900	1823800	50811	58228	62436	0	56459	0
AQMLREAAEAGAEAR	SCRIB; SCRIB; SCRI	Q14160;	A0A0G2	SCRIB	HUM	Oxidation (M)	672720	1046800	502350	39329	64995	50180	0	0	0
AQMVLSR	SCRIB; SCRIB; SCRI	Q14160;	A0A0G2	SCRIB	HUM	Oxidation (M)	0	3368500	2918700	0	0	0	0	0	0
AQMVQEDLEK	MSN	P26038	MOES	HUM	Oxidation (M)	1624800	2017400	1513700	0	128760	111080	0	0	0
AQMVQEDLEKTR	MSN	P26038	MOES	HUM	Oxidation (M)	1712600	2273200	1652700	50787	65383	57507	0	0	0
AQMVQEDLEKTRAELK	MSN	P26038	MOES	HUM	Oxidation (M)	2157700	1951500	3469100	35622	37669	46320	0	0	0
AQNDLIWNIKDELK	PARP1; PARP1; PAR	P09874;	A0A7I2V	PARP1	HUM	Unmodified	527540	711210	890210	0	0	0	0	0	0
AQNDLIWNIKDELKK	PARP1; PARP1; PAR	P09874;	A0A7I2V	PARP1	HUM	Unmodified	526130	1466600	1273800	0	0	0	0	0	0
AQNLKDLAGR	PHB2; PHB2; PHB2;	Q99623;	F5H2D2;	PHB2	HUMA	Acetyl (Protein N-t	1144100	912940	996490	32982	67695	50533	0	0	0
AQNLKDLAGRLPAGPR	PHB2; PHB2; PHB2;	Q99623;	F5H2D2;	PHB2	HUMA	Acetyl (Protein N-t	1525800	557430	696410	0	0	0	0	0	0
AQNLNPMVDVK	SAE1; SAE1; SAE1;	Q9UBE0;	B3KNJ4	SAE1	HUMA	Oxidation (M)	6024100	5653300	7287200	177560	163520	158420	0	0	0
AQNLNPMVDVK	SAE1; SAE1; SAE1;	Q9UBE0;	B3KNJ4	SAE1	HUMA	Oxidation (M);Deai	887490	814130	861140	0	0	33637	11363	0	0
AQNLPQSPENTDLQVIPGSQTR	CNNM3	Q8NE01	CNNM3	HUM	Unmodified	0	818160	641330	34234	56158	31814	0	0	0	0
AQPAQPADEPAEKADEPMEH	PSMA1; PSMA1	P25786;	F5GX11	PSA1	HUMA	Oxidation (M)	15526000	22652000	19541000	4250200	3890700	4650300	0	0	0
AQPAQPADEPAEKADEPMEH	PSMA1; PSMA1	P25786;	F5GX11	PSA1	HUMA	Oxidation (M);Metl	2069800	1578100	1368400	50622	165300	0	0	0	0
AQPARPPPAQPGEIGEAIAK	SORBS2; SORBS2	O94875;	H7BXR3	SRBS2	HUM	Unmodified	745630	731670	846090	44875	120900	50328	0	0	0
AQPLEDLAGFTELSETSGHTQESLTAGK	MKI67	P46013	KI67	HUMA	Unmodified	2237900	0	1623700	0	0	0	0	0	0
AQPLSLEELLAK	DDX23; DDX23	Q9BUQ8;	F8VVA	DDX23	HUM	Unmodified	1652700	1309400	1523500	15284	13635	10453	0	0	0
AQPPEAGPQGLHDLGR	ESYT2; ESYT2; ESY	A0FGR8;	A0A087	ESYT2	HUM	Unmodified	1602500	2993400	1633900	110750	131270	145130	0	43854	0
AQPPSSAASR	EIF4G1; EIF4G1; EIF	Q04637;	C9J2Z7;	IF4G1	HUM	Unmodified	1939200	2167400	1968700	276740	108040	244970	0	0	0
AQPSASLGVGYR	RBM14	Q96PK6	RBM14	HUM	Unmodified	15493000	18038000	23200000	1564200	968580	1000400	233270	0	250970
AQPSVSLGAAYR	RBM14	Q96PK6	RBM14	HUM	Unmodified	25029000	23905000	21974000	1305000	1487100	1626100	0	228550	283230
AQPSVSLGAPYR	RBM14	Q96PK6	RBM14	HUM	Unmodified	13674000	12441000	13367000	415210	489350	510720	82012	59476	0
AQPSVVLSAAHTVAAR	PNPLA6; PNPLA6	Q8IY17;	A0A384	PLPL6	HUM	Unmodified	1696300	878340	2004000	124450	175140	110760	0	0	0
AQPVPHYGVPFKPQIPEAR	TPX2	Q9ULW0	TPX2	HUM	Unmodified	3845400	3255500	3300700	0	0	0	0	0	0
AQQALSELHTVEK	UBR4; UBR4	Q5T4S7;	A0A0A0	UBR4	HUM	Unmodified	2654400	2098900	2002500	135430	66461	141950	0	0	0
AQQATPGGAAPTIFSR	HINT2	Q9BX68	HINT2	HUM	Unmodified	4995500	4960600	3996000	96473	68326	88149	0	0	0
AQQEAEAAQR	TBCB; TBCB; TBCB	Q99426;	K7EP07;	TBCB	HUMA	Unmodified	2468400	2668000	2014300	0	0	0	0	0	0
AQQEAPAVR	DDX28	Q9NUL7	DDX28	HUM	Unmodified	5065700	2717000	648740	896830	992090	1141000	0	0	0
AQQEFAAGVFSNPAVR	SCAMP3	O14828	SCAM3	HUM	Unmodified	1019900	4357200	1495100	300670	276500	428570	32111	0	19797
AQQELEEQTR	MSN	P26038	MOES	HUM	Unmodified	1609000	1549800	1448400	73468	0	73371	0	0	0
AQQELVPPQQQASPPQLPK	SEC16A; SEC16A; S	O15027;	F1T0I1;	SC16A	HUM	Unmodified	1635600	1169700	3179900	331830	400880	322120	0	42654	44534
AQQEQELAADAFK	PRKCSH; PRKCSH	P14314;	K7ELL7	GLU2B	HUM	Unmodified	2055800	8735500	9992300	258610	240580	178030	0	0	0
AQQEVLQALEPQVDYLR	MACF1; MACF1; M	Q9UPN3;	H3BQK	MACF1	HUM	Unmodified	2529400	1342700	2794400	0	0	0	0	0	0
AQQIHSQTSQQYPLYDLDLGK	DSP	P15924	DESP	HUM	Unmodified	6585200	7943000	5803100	0	0	0	0	0	0
AQQLEQIR	ISYNA1	Q9NPH2	INO1	HUM	Unmodified	3404500	2811300	3300700	0	0	28199	0	0	0
AQQLEQIRR	ISYNA1	Q9NPH2	INO1	HUM	Unmodified	1570400	1083300	1180800	0	0	0	0	0	0
AQQLLGQR	SYNE2; SYNE2; SYN	Q8WXH0;	G3V5X9	SYNE2	HUM	Unmodified	1409000	1807600	1667300	0	0	0	0	0	0
AQQLREEQQR	PLEC; PLEC	Q15149;	H0YDN1	PLEC	HUM	Unmodified	294160	213250	316890	0	37678	0	0	0	0
AQQLSITSK	KTN1; KTN1; KTN1	Q86UP2;	G3V4Y7	KTN1	HUM	Unmodified	1275800	1372500	1070400	0	0	0	0	0	0
AQQSLELIQSK	KTN1; KTN1; KTN1;	Q86UP2;	B7Z6P3	KTN1	HUM	Unmodified	1948900	1996300	2222300	121200	108080	111510	0	0	0
AQQVAVQEQEIAR	FLOT1; FLOT1; FLO	O75955;	A0A140	FLOT1	HUM	Unmodified	1277700	1271100	1572800	276030	241630	246150	0	0	0
AQQVSQGLDVLTAKVENAAR	VCL	P18206	VINC	HUM	Unmodified	4438900	5383900	0	0	0	0	0	0	0
AQREHGVLGGK	DDAH2; DDAH2; DI	O95865;	Q5SSV3;	DDAH2	HUM	Unmodified	452180	229170	147730	0	0	0	0	0	0
AQRELGELIPLR	NUMA1; NUMA1; N	Q14980;	H0YFY6	NUMA1	HUM	Unmodified	2988500	3190500	3415400	34633	22885	38742	0	0	0
AQRIEYDCELVPR	RCC2	Q9P258	RCC2	HUM	Unmodified	5711800	4562600	4417700	89717	115530	88585	0	0	0
AQSLEPYGTGLR	KANK2; KANK2	Q63ZY3;	K7ERU0	KANK2	HUM	Unmodified	0	0	0	0	0	0	238940	205980	211360
AQSLLSTDREASIDILHSIVKR	PSMD11; PSMD11	O00231;	J3QRY4	PSD11	HUM	Unmodified	5228600	3615800	3795200	0	0	0	0	0	0
AQSRDGGNPFAEPSELDNPFQDPAVIQHRPSR	SCAMP3	O14828	SCAM3	HUM	Acetyl (Protein N-t	2709200	2147100	2711100	0	0	0	0	0	0
AQSSQDAVSSMNLFDLGGQYLR	PUF60; PUF60; PUF	Q9UHX1;	A0A0J9	PUF60	HUM	Oxidation (M)	3781400	4103700	4347600	0	0	0	0	0	0
AQSSQDAVSSMNLFDLGGQYLR	PUF60; PUF60; PUF	Q9UHX1;	A0A0J9	PUF60	HUM	Oxidation (M);Deai	1574100	911920	1246500	0	0	0	0	0	0
AQTEGINISEEALNHLGEIGTK	RUVBL1; RUVBL1;	Q9Y265;	H7C4G5	RUVB1	HUM	Unmodified	9985200	8475600	9367000	0	0	0	0	0	0
AQTEGINISEEALNHLGEIGTK	RUVBL1; RUVBL1;	Q9Y265;	H7C4G5	RUVB1	HUM	Deamidation (N)	6949900	4422300	6346600	0	0	0	0	0	0
AQTKEQADFALEALAK	MYH14; MYH14	Q7Z406;	M0QY43	MYH14	HUM	Unmodified	656690	0	0	78280	19510	0	0	0	19114
AQTLPTSVVTITSESSPGKR	SPTBN1; SPTBN1	Q01082;	A0A087	SPTB2	HUM	Unmodified	7018200	6531200	6974800	985760	1020800	962910	0	0	0
AQTLPTSVVTITSESSPGKR	SPTBN1; SPTBN1	Q01082;	A0A087	SPTB2	HUM	Methyl (KR)	1259500	0	0	119550	104890	94117	0	0	0
AQTTAQASTPGQPPPQPQAPSHAAGQSALPQR	EP400	Q96L91	EP400	HUM	Unmodified	717860	0	912450	0	0	0	0	0	0
AQVAKESVLQFYPK	UBA2	Q9UBT2	SAE2	HUM	Unmodified	2702500	397900	1258700	20634	26944	0	0	0	0
AQVARPGGDTIFGK	HINT1; HINT1; HINT	P49773;	H0YC49	HINT1	HUM	Unmodified	79334000	55133000	52854000	0	55143	584920	0	0	0
AQVDDLTEAVAAKDSQLAVLK	GOLGA5	Q8TBA6	GOGA5	HUM	Unmodified	0	1001200	863520	0	0	0	0	0	0
AQVEEFLAQHGSEYQSVK	PLOD1	Q02809	PLOD1	HUM	Unmodified	3429000	2853100	3369400	0	149460	0	0	0	54686
AQVEQELTTLR	PLEC	Q15149	PLEC	HUM	Unmodified	1401100	1509700	1941500	199570	175370	193100	0	0	0
AQVIYTR	RPS25	P62851	RS25	HUM	Unmodified	15263000	12895000	13065000	420630	419120	431190	46441	0	0
AQVIYTRNTKGGDAPAAGEDA	RPS25	P62851	RS25	HUM	Deamidation (N)	2478000	2939400	3005400	0	0	104860	0	25406	0
AQVLSLYR	LYRM4; LYRM4; LY	Q9HD34;	C9J799;	LYRM4	HUM	Unmodified	1258300	1172700	1172800	0	0	0	0	0	0
AQVPFEQILSLPELK	CIB1	Q99828	CIB1	HUM	Unmodified	198690	97739	114920	0	0	0	0	0	0
AQVPPPLLSPQVPVSLLK	TNRC6A; TNRC6A	Q8NDV7;	H7C266	TNR6A	HUM	Unmodified	243850	185320	332910	0	0	0	0	0	0
AQVSLLIR	PHB2; PHB2; PHB2;	Q99623;	F5GWA7	PHB2	HUMA	Unmodified	2166300	1533700	1498700	118630	119080	51642	0	0	0
AQVTSLLGELQESQSR	IKBKG; IKBKG; IKB	Q9Y6K9;	C9JN51	NEMO	HUM	Unmodified	341460	231620	275710	0	0	0	0	0	0
AQVVDLLQQELTAAEQR	GOLGB1; GOLGB1;	Q14789;	E7EU81;	GOGB1	HUM	Unmodified	1133200	955240	1491900	0	0	0	0	0	0
AQVVSNLK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	2086600	1727900	1958500	43550	42765	0	0	0	0
AQYDELAR	KRT18; KRT18	P05783;	F8VZY9	K1C18	HUM	Unmodified	22065000	27027000	31056000	3146100	3202100	3035400	0	29808	0
AQYEDIAQK	KRT1	P04264	K2C1	HUMA	Unmodified	30048000	33721000	31089000	1378000	1247100	1696500	23570	0	0
AQYEDIAQKSKAEAESLYQSK	KRT1	P04264	K2C1	HUMA	Unmodified	1577900	1666200	1830100	0	0	0	0	0	0
AQYEDIAQKSKAEAESLYQSKYEELQITAGR	KRT1	P04264	K2C1	HUMA	Unmodified	6451200	4810900	7271700	0	0	0	0	0	0
AQYPIADLVK	NNT; NNT; NNT	Q13423;	E9PCX7;	NNTM	HUM	Unmodified	3395500	3316500	3379200	0	0	35131	0	0	0
AQYYLPDGSTIEIGPSR	ACTR1A; ACTR1A	P61163;	R4GMT0	ACTZ	HUM	Unmodified	542060	342470	506120	0	0	0	0	25358	0
ARAEAAEKLQR	MYH14; MYH14	Q7Z406;	A0A0C4	MYH14	HUM	Unmodified	949190	484910	450870	0	0	0	0	0	0
ARAEAQEAEDQQAR	PCSK1N	Q9UHG2	PCS1N	HUM	Unmodified	184550	249930	0	0	0	0	0	0	0
ARAGLEDLQVAFR	CALML5	Q9NZT1	CALL5	HUM	Unmodified	1108100	0	0	0	0	0	0	0	0
ARDIVPGDIVEVAVGDKVPADLR	ATP2A3	Q93084	AT2A3	HUM	Unmodified	0	1385300	1263300	0	0	0	0	0	0
ARDTPVELLAPLPPYFSR	RPUSD3	Q6P087	RUSD3	HUM	Unmodified	435420	0	716690	0	0	0	0	0	0
ARDVYEEAIR	XAB2	Q9HCS7	SYF1	HUM	Unmodified	412030	352140	385710	0	0	19141	0	0	0
AREEFQEHR	TRMT61A; TRMT61	Q96FX7;	H0Y2Q1	TRM61	HUM	Unmodified	86682	340280	324910	0	0	0	0	0	0
ARELYHEEFAR	SCIN; SCIN; SCIN	Q9Y6U3;	C9JGB6	ADSV	HUM	Acetyl (Protein N-t	0	0	0	1647900	2415400	2261700	0	0	0
ARELYHEEFARAGK	SCIN; SCIN; SCIN	Q9Y6U3;	C9JGB6	ADSV	HUM	Acetyl (Protein N-t	0	0	0	91413	71467	71820	0	0	0
AREQAEAEVASLNR	TPM3; TPM3; TPM3	D6R904;	A0A494	D6R904	HUM	Unmodified	19628000	17300000	15774000	710070	994040	643710	29902	27878	38912

AREQAEAEVASLNRR	TPM3; TPM3; TPM3	D6R904; A0A494	D6R904	HUN	Unmodified	28988000	30681000	29876000	1129300	1089200	1254900	55178	0	34428
AREQAEAEVASLNRR	TPM3; TPM3; TPM3	D6R904; A0A494	D6R904	HUN	Deamidation (N)	8314300	6460400	6002300	0	0	164920	0	0	0
ARERDKER	ZC3H13; ZC3H13	Q5T200; A0A7I2	ZC3HD	HUM	2 Methyl (KR)	0	1355000	0	0	0	0	0	0	0
ARESYVETELIFALAK	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	Unmodified	726280	0	368000	0	0	0	0	0	0
ARETGGAEGTGDAVLGEKVLEEALLSR	AKAP1; AKAP1	Q92667; I3L0W0	AKAP1	HUM	Unmodified	1396100	1959200	1590400	0	0	0	0	0	0
AREVLLASQKTDAEATDTEATET	MRPS16	Q9Y3D3	RT16	HUMA	Unmodified	1762300	1701700	341560	0	0	0	0	0	0
ARFEELCSDLFR	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP7C	HUM	Unmodified	7452400	8168800	6601300	37156	11269	13435	0	17585	17271
ARFEELNADLFR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C	HUM	Unmodified	102740000	80137000	102960000	351650	260940	210630	69105	63749	59472
ARFEELNADLFR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C	HUM	Deamidation (N)	37690000	37866000	26386000	40454	35604	21634	9507.9	0	0
ARFEELNADLFRGTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	14375000	14906000	22482000	0	0	0	0	0	0
ARFEELNADLFRGTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Deamidation (N)	21970000	23669000	23417000	0	0	0	0	0	0
ARFEELNADLFRGTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Methyl (KR);Deam	0	0	954230	0	0	0	0	0	0
ARGITINAAHVEYSTAAR	TUFM	P49411	EFTU	HUMA	Unmodified	0	235420	172990	79995	53919	80463	0	0	0
ARGITINAAHVEYSTAAR	TUFM	P49411	EFTU	HUMA	Deamidation (N)	344310	0	771270	135850	90376	95872	45312	0	0
ARGPGLEKTGVAVNKPAEFTVDAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	0	0	0	253600	206930	235130	464940	532750	253950
ARIQAGAEAK	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2	HUM	Unmodified	515530	384150	324310	0	51469	47224	0	0	0
ARIVAEEFLKNF	ARPC4	P59998	ARPC4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ARLAEQAERYDDMASAMK	YWHAH; YWHAH; Y	Q04917; F8WEB6	1433F	HUMA	2 Oxidation (M)	653480	892880	831250	50696	63509	67048	0	0	0
ARLEIEPEWAYGK	FKBP3	Q00688	FKBP3	HUM	Unmodified	6921100	6831100	5728400	0	0	0	0	0	0
ARLEIEPEWAYGKK	FKBP3	Q00688	FKBP3	HUM	Unmodified	4463500	3959300	2660100	0	41805	44895	0	0	0
ARLQEKLSPPYSSPQEFAQDVGR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Unmodified	0	0	2708800	0	0	0	0	0	0
ARNDEYENLFNMIVEIPR	PPA2; PPA2; PPA2;	Q9H2U2; D6RGV	IPYR2	HUM	Oxidation (M);2 De	502250	691050	0	0	0	0	0	0	0
ARNDEYENLFNMIVEIPR	PPA2; PPA2; PPA2;	Q9H2U2; D6RGV	IPYR2	HUM	Oxidation (M)	723080	257680	356560	0	0	0	0	0	0
ARNDEYENLFNMIVEIPR	PPA2; PPA2; PPA2;	Q9H2U2; D6RGV	IPYR2	HUM	Oxidation (M);Deam	0	382220	512120	0	0	0	0	0	0
ARNLPLPPPPPPR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Deamidation (N)	741200	857740	659310	51540	0	0	0	0	0
ARNTLSSR	ARPC5L	Q9BPX5	ARP5L	HUM	Acetyl (Protein N-t	0	4833700	4037000	1108400	1128900	1251600	269810	178950	123540
ARPAEVGGMQLR	DUT; DUT; DUT; DL	P33316; H0YNJ9;	DUT	HUMA	Oxidation (M)	27201000	28396000	24527000	2361300	1966700	2557200	218480	227530	274140
ARPATDSFDDYPPR	EIF4B; EIF4B; EIF4B	P23588; F8VP89;	IF4B	HUMA	Unmodified	1153800	1049500	941690	106800	0	72923	0	0	0
ARPEDVISEGR	MPST	P25325	THTM	HUM	Unmodified	0	3643100	1473300	179060	263750	0	70764	0	0
ARPEDVISEGRGKTH	MPST	P25325	THTM	HUM	Unmodified	0	0	0	213500	225270	161180	78892	134470	93859
ARPELEELLAK	MRPL48; MRPL48;	Q96GC5; F5H8D6	RM48	HUMA	Unmodified	819950	899980	659390	9512	8896.8	0	0	0	0
ARPEYMLPVHFYGR	PYGB	P11216	PYGB	HUMA	Oxidation (M)	12657000	10790000	13151000	377110	327700	258890	79492	71776	70154
ARPFPDGLAEDIDKGEVSAR	EEF2	P13639	EF2	HUMA	Unmodified	33841000	32947000	41106000	49855	336120	221580	0	0	0
ARPFPDGLAEDIDKGEVSARQELK	EEF2	P13639	EF2	HUMA	Unmodified	5672300	4185800	1965600	0	0	0	0	0	0
ARPSQFPEQSSSAQQNAR	KIF2A; KIF2A	A0A6Q8PH57; A(	A0A6Q8PH57		Deamidation (N)	724020	1202000	1078200	108290	91328	0	0	0	39971
ARPSQFPEQSSSAQQNGSVSDISPVQAAK	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A	HUM	Deamidation (N)	881750	1021200	1240700	0	0	64599	0	0	0
ARQEELYSELQAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	6583400	6246700	6200600	822610	1147700	1026900	165640	155810	0
ARQENGMPEEPATTAR	PAK4; PAK4	O96013; M0R2X4	PAK4	HUMA	Oxidation (M);Deam	1542300	2193800	1476100	971690	457740	918080	0	0	0
ARQLLDQVEQIQKEQDYQR	TMED4	Q7Z7H5	TMED4	HUM	Unmodified	844020	989900	1792100	0	0	0	0	0	0
ARQQDEEMLELPAPAEVAAK	MLH1; MLH1; MLH	P40692; A0A6698	MLH1	HUM	Oxidation (M)	834980	430280	652390	0	0	0	0	0	0
ARQYTSPEEIDAQLQAEK	PDAP1; PDAP1	Q13442; F8WBW	HAP28	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ARSDEGQLSPATR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	0	0	946980	240230	224110	402490	0	0	0
ARSEQFINLR	CAPN1	P07384	CAN1	HUMA	Unmodified	959270	0	1098700	0	0	0	0	0	0
ARSQLMPASAPCLPK	N/A	N/A	N/A		Oxidation (M)	0	647470	0	0	0	0	0	0	0
ARTKPPEGYDTVTLYPKA	PDLIM3; PDLIM3; P	Q53GG5; A0A087	PDLI3	HUM	Unmodified	177830	0	0	0	0	0	1437000	721370	642880
ARVANPSGNLTETYVQDR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Unmodified	521470	518120	640170	64414	79429	74377	231040	183210	217500
ARVEKVESPAK	SND1	Q7KZF4	SND1	HUMA	Unmodified	644410	611510	487730	89918	74154	0	0	0	0
ARYEEVSVSGFEEFHR	TXNDC17; TXNDC1	Q9BRA2; I3L2R6	TXD17	HUM	Acetyl (Protein N-t	7995400	4691600	7702200	43622	0	0	0	0	0
ARYLAEKYEWDVAEAR	EEF2	P13639	EF2	HUMA	Unmodified	7480700	6739000	7989000	99332	0	0	0	0	0
ARYVDVLNPSGTQR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	795060	698350	0	0	315260	0	61069	87703	97399
ASAAEGVGEPGASAGR	WDR26; WDR26; WI	A0A7I2YQQ9; A0	A0A7I2YQQ9		Unmodified	0	0	1492900	0	213190	153840	0	0	0
ASAAFSSVGSVITK	TPD52; N/A	P55327; H0YC42	TPD52	HUM	Unmodified	3250900	3341900	3534100	0	0	0	0	0	0
ASAALLDKLYALGLVPTR	IMP3	Q9NV31	IMP3	HUMA	Unmodified	951710	422680	510220	0	0	0	0	0	0
ASAAPKPEPVPVQK	PDLIM5; PDLIM5; P	Q96HC4; H0Y929	PDLI5	HUM	Unmodified	0	0	895100	125390	156000	173430	22335	0	0
ASAFALQEQPVVNAVIDDTTK	DLST	P36957	ODO2	HUMA	Deamidation (N)	613690	949390	1138900	0	0	0	0	0	0
ASAFALQEQPVVNAVIDDTTK	DLST	P36957	ODO2	HUMA	Unmodified	0	3415900	1497800	0	0	0	0	0	0
ASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQR	CTTN	Q14247	SRC8	HUMA	Deamidation (N)	1183400	1423300	1246600	0	0	0	0	0	0
ASAGHVAVSSPTPETGPLQR	NCAPD3	P42695	CND3	HUM	Unmodified	988870	0	539360	0	0	0	0	0	0
ASAHAITGPPTELITSEVTAR	COL14A1; COL14A1	Q05707; H0YBB2	COEA1	HUM	Unmodified	0	0	0	114050	113380	81571	141810	31552	65692
ASALIDRPAPYFER	EPB41L3; EPB41L3;	Q9Y2J2; A0A0A0	E41L3	HUM	Unmodified	0	0	0	153930	20614	99085	41461	39650	49275
ASALQEALER	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Unmodified	6486600	4538400	3941700	205550	170560	282280	118680	165480	167640
ASALQEALERDK	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Unmodified	1672900	1611900	1840600	0	0	0	0	0	0
ASALRHEEQPAPGYDTHGR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1	HUMA	Unmodified	0	651400	0	1011500	1510100	1260800	439010	285350	0
ASAPESGLLSK	ISOC1	Q96CN7	ISOC1	HUM	Unmodified	817700	797040	683160	0	20843	0	0	0	0
ASAPESGLLSKV	ISOC1	Q96CN7	ISOC1	HUM	Unmodified	4069300	3633700	3191100	0	97434	65494	0	0	0
ASASDGSSFVVAR	GLIPR2; GLIPR2; GL	Q9H4G4; Q5VZR(	GAPR1	HUM	Unmodified	0	0	0	198440	196170	265490	66278	26485	0
ASASGAMAKHEQILVLDPPTDLK	VAPA; VAPA	Q9P0L0; J3QKM5	VAPA	HUM	Acetyl (Protein N-t	2741700	1878900	2131000	0	0	0	39729	0	0
ASASGSGAQVGGPISSGSSASSVTVTR	LMNA; LMNA	P02545; A0A6Q8	LMNA	HUM	Unmodified	1500400	1301900	1114500	282120	292040	315760	119080	96670	97091
ASATSVSSAGEQAAGDPEGR	PANK2; PANK2; PA	Q9BZ23; V9GYZ(	PANK2	HUM	Unmodified	539130	441220	455540	0	0	26265	0	0	0
ASAVSELSPR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	7042900	6487300	6652800	613590	491340	644800	73560	102420	74451
ASAVSPANLPAVLLQPR	HCFC1; HCFC1	P51610; A6NEM2	HCFC1	HUM	Acetyl (Protein N-t	83113	88637	99878	0	0	0	0	0	0
ASAYNNLKGNLQNLER	ATP6V1C1; ATP6V1	P21283; E7EV59	VATC1	HUM	Methyl (KR);2 Dea	195210	144720	137870	0	14980	9362	9653.6	0	0
ASDAEGDVAALNRR	TPM4; TPM4	A0A2R8YEU4; A(	A0A2R8YEU4		Unmodified	0	0	0	0	181260	0	0	0	0
ASDAFHFFQSGQAK	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU	HUMA	Unmodified	1771400	2188500	1347200	29555	31368	36661	0	0	0
ASDEVPLAPR	SLC35B2	Q8TB61	S35B2	HUM	Unmodified	4390600	1715800	3388100	190740	531990	463540	0	0	0
ASDPDEAKLAEDILNTMFDTSYSK	FLII; FLII	Q13045; K7EQZ7	FLII	HUMA	Oxidation (M)	1181500	606620	773910	0	0	0	0	0	0
ASDPGLPAEEPK	CAD; CAD	P27708; F8VPD4	PYR1	HUMA	Unmodified	485390	418580	639070	0	0	69451	0	0	0
ASDPGLPAEEPKEK	CAD; CAD	P27708; F8VPD4	PYR1	HUMA	Unmodified	1147300	970060	1052300	72941	77501	0	0	0	0
ASDPQSPPQVSR	TAOK1	Q7L7X3	TAOK1	HUM	Unmodified	583390	698930	676490	0	0	0	0	0	0
ASDSELER	PLEC	Q15149	PLEC	HUMA	Unmodified	0	0	0	0	1149000	1077100	0	0	0
ASDVHEVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	2277400	2584000	2807400	0	20237	18119	0	0	0
ASDYGMKLPILR	MLEC; MLEC	Q14165; F5GX14	MLEC	HUM	Oxidation (M)	7552900	7480500	7782600	2760600	3601100	3043100	261300	0	536260
ASEAKEGEEAGPGDPLLEAVPK	CDC37; CDC37	Q16543; K7EL68	CDC37	HUM	Unmodified	798760	900810	1049200	0	0	0	0	0	0
ASEDIAKLAETLAK	RANGAP1; RANGAI	P46060; B0QYT5	RAGP1	HUM	Acetyl (Protein N-t	498310	410670	577780	0	0	0	0	0	0
ASEDLKTHMVVANTMEDFQK	EPRS1	P07814	SYEP	HUMA	2 Oxidation (M)	869000	1999400	3586400	0	0	0	0	0	0
ASEELQKDLEEVKVLLEK	CACYBP; CACYBP	Q9HB71; B2RWH	CYBP	HUMA	Acetyl (Protein N-t	710910	35624	0	0	0	0	0	0	0
ASEELQKDLEEVKVLLEKATR	CACYBP; CACYBP	Q9HB71; B2RWH	CYBP	HUMA	Acetyl (Protein N-t	389600	0	0	0	0	0	0	0	0
ASEGPAFFPGR	FARSB	Q9NSD9	SYFB	HUMA	Unmodified	5196700	7078600	4928300	210360	105430	125500	0	0	0
ASEIMVDDEELAQHPATTEDIR	FTSJ3	Q8IY81	SPB1	HUMA	Oxidation (M)	2845200	2836100	2659100	0	0	0	0	0	0
ASEPAGGPR	ATXN2L; ATXN2L;	Q8WWM7; H3BS	ATX2L	HUM	Unmodified	887060	950420	1066800	0	0	12874	0	0	0
ASESPARGPSGSPR	DYNC1LI2; DYNC1I	O43237; J3KRZ2	DC1L2	HUM	Unmodified	80444	305890	466030	336150	0	352210	0	0	0
ASESQILSIAEK	MIA3; MIA3	Q5JRA6; A0A0A(	TGO1	HUMA	Unmodified	1287100	1244400	1055900	77512	78660	0	0	0	0
ASESSKPWPDATYGTGSASR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	4588600	4491900	0	558610	583260	537250	0	0	202390
ASETDALR	EIF4G3; EIF4G3; EIF	O43432; A0A0A0	IF4G3	HUMA	Unmodified	340920	188990	0	0	94287	0	0	0	0
ASETPPPVAQPKPEAPHPGLETTLQER	CC2D1A	Q6P1N0	C2D1A	HUM	Unmodified	1962200	2307400	0	0	0	0	0	0	0
ASETSTIPAMER	ACAD10; ACAD10	Q6JQN1; F8W1I9	ACD10	HUM	Oxidation (M)	574580	602740	594740	0	0	74867	0	0	0
ASEVEVKNEIVANVGKR	LRRFIP1	Q32MZ4	LRRF1	HUM	Unmodified	3285400	2590500	2737700	265030	97906	38452	95444	73005	23918
ASEVEVKNEIVANVGKR	LRRFIP1	Q32MZ4	LRRF1	HUM	Deamidation (N)	623900	1342200	635960	113770	118810	80846	13434	17662	0
ASEVMGPVEAAPEYR	PRPF31; PRPF31; PR	Q8WWY3; E7ES9	PRP31	HUM	Oxidation (M)	5728000	4909700	3292700	154730	171550	271050	0	0	0
ASEVQLHLYGQHYR	ENTPD2	Q9Y5L3	ENTP2	HUM	Unmodified	1603500	1203500	1340200	0	0	0	0	0	0
ASFGFSGISPLEDEINKGSK	KIAA1217; KIAA121	Q5T5P2; A0A0U1	SKT	HUMA	Unmodified	0	2739400	0	0	0	0	0	0	0
ASFNHFDKDHGGALGPEEFK	ACTN4; ACTN4	O43707; F5GXS2	ACTN4	HUM	Deamidation (N)	1179200	1325000	1183200	76103	80052	75619	0	0	0
ASFNNPDR	RAD23B; RAD23B	P54727; H0Y579	RD23B	HUM	Unmodified	4966000	5028600	5596700	54242	42553	43613	0	0	0
ASFNNPDRAVEYLLMGIPGDR	RAD23B	P54727	RD23B	HUM	Oxidation (M)	392360	369940	640860	0	0	0	0	0	0
ASFPQGPIGGANR	LYPLA1; LYPLA1; L	O75608; A0A087	LYPA1	HUM	Unmodified	3683400	2895900	3029300	0	0	0	0	0	0
ASFPVQILPNLYLGSAR	DUSP9	Q99956	DUS9	HUMA	Unmodified	503280	265660	258510	0	0	0	0	0	0
ASFVQTR	SACM1L; SACM1L;	Q9NTJ5; A0A5F9	SAC1	HUMA	Unmodified	543550	482480	551330	92152	87275	125720	0	24467	0
ASFVTEVLAHSGRLEK	ZW10; ZW10	O43264; F5H3C1	ZW10	HUMA	Acetyl (Protein N-t	387790	353580	524340	0	0	0	0	0	0
ASFVTEVLAHSGRLEKEDLGTR	ZW10; ZW10	O43264; F5H3C1	ZW10	HUMA	Acetyl (Protein N-t	0	549630	970430	0	0	0	0	0	0
ASFWLGELQR	TNPO3; TNPO3	Q9Y5L0; C9J7E5	TNPO3	HUM	Unmodified	1374900	0	462620	125090	152290	127980	9774.7	0	31438
ASGADSKGDDLSTAILK	VCP; VCP; VCP; VC	P55072; A0A7I2	TERA	HUMA	Acetyl (Protein N-t	51141000	56708000	53004000	2724400	2854800	3011000	0	26912	67274
ASGADSKGDDLSTAILK	VCP; VCP; VCP; VC	P55072; A0A7I2	TERA	HUMA	Acetyl (Protein N-t	3009500	1720100	3141500	98538	142100	183490	0	0	0
ASGADSKGDDLSTAILKQK	VCP; VCP; VCP; VC	P55072; A0A7I2	TERA	HUMA	Acetyl (Protein N-t	1477800	1630000	1276200	425590	384520	409900	106140	75703	74177
ASGADSKGDDLSTAILKQK	VCP; VCP; VCP; VC	P55072; A0A7I2	TERA	HUMA	Acetyl (Protein N-t	3691100	3150100	3435200	4559400	4879400	4839900	660460	735230	598160
ASGDFQTTKLNGFEVFAR	ITGAV	P06756	ITAV	HUMA	Deamidation (N)	2994900	2198700	1652500	65059	26076	37990	49599	0	26955
ASGDSARPVLLQVAESAYR	SLC25A13	Q9UJS0	CMC2	HUM	Unmodified	5822100	4060000	5426000	0	0	0	0	23277	0
ASGEHSPGSGAAR	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB	HUM	Acetyl (Protein N-t	13303000	14613000	11376000	0	2454400	0	0	0	0
ASGEMASAQVITAALR	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Oxidation (M)	0	841160	1076000	0	0	0	0	0	0
ASGLLFVPNILAR	ENDOG	Q14249	NUCG	HUM	Unmodified	659730	510500	401890	0	0	0	0	0	0
ASGLLLER	METTL26; METTL2(	Q96S19; A0A087	MTL26	HUM	Unmodified	1112800	932790	914370	76505	49476	0	55383	0	48913
ASGNLETK	VDAC3; VDAC3; VI	Q9Y277; E5RK27	VDAC3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ASGNYATVISHNPETK	RPL8; RPL8; RPL8	P62917; E9PKZ0;	RL8	HUMA	Deamidation (N)	5127400	5770000	5045000	181670	362710	210420	0	0	0
ASGNYATVISHNPETK	RPL8; RPL8; RPL8	P62917; E9PKZ0;	RL8	HUMA	Unmodified	5690200	9035300	3410200	499740	394690	349090	28931	31867	0
ASGNYATVISHNPETKK	RPL8; RPL8; RPL8	P62917; E9PKZ0;	RL8	HUMA	Unmodified	3906000	4648500	3590600	428030	279800	328040	0	0	0
ASGNYATVISHNPETKK	RPL8; RPL8; RPL8	P62917; E9PKZ0;	RL8	HUMA	Deamidation (N)	1080300	1175000	768680	0	0	0	0	0	0
ASGPGLNTTGVPASLPVEFTIDAK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Unmodified	1806900	1206100	1602800	0	0	0	0	0	0
ASGPGLNTTGVPASLPVEFTIDAK	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Deamidation (N)	0	679350	579330	0	0	0	0	0	0
ASGPPAKATEAGK	VCX; VCX3A; VCX2	Q9H320; Q9NNX	VCX1	HUMA	Methyl (KR)	0	0	0	0	0	0	0	0	0
ASGPPAKATEAGKR	VCX; VCX3A; VCX2	Q9H320; Q9NNX	VCX1	HUMA	Unmodified	0	0	0	1107500	829780	747920	0	0	0
ASGPPVSELITK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMA	Unmodified	339170000	229370000	280460000	256750	243640	4197600	0	0	0
ASGPPVSELITKAVAASK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMA	Methyl (KR)	21006000	24062000	25960000	113570	74933	39508	11769	0	0
ASGPPVSELITKAVAASK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMA	Unmodified	6050200	5503900	5538600	200920	156200	66256	32472	19766	0

ASGPPVSELITKAVAASKER	H1-3; H1-4; H1-2	P16402; P10412; 1	H13	HUMAN	Methyl (KR)	6459900	9031300	7483600	70990	31101	13880	68982	0	0
ASGPPVSELITKAVAASKER	H1-3; H1-4; H1-2	P16402; P10412; 1	H13	HUMAN	Unmodified	4061500	3593100	3003700	271810	161520	37474	180580	65507	115020
ASGPPVSELITKAVAASKER	H1-3; H1-4; H1-2	P16402; P10412; 1	H13	HUMAN	2 Methyl (KR)	2790800	3481900	2659500	16236	16170	0	0	0	0
ASGQAFELILSPR	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Unmodified	53516000	54294000	76414000	461750	599080	476750	51743	0	0
ASGQAFELILSPRSK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Unmodified	1359500	0	1529600	0	0	0	0	0	0
ASGQAFELILSPRSKESVPEFPLSPPK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Unmodified	16483000	14549000	14056000	0	0	0	0	0	0
ASGRPEELWEAVVGAAER	AKT1S1; AKT1S1; A	Q96B36; H9KV91	AKTS1	HUM	Acetyl (Protein N-t	461680	222190	381560	0	0	0	0	0	0
ASGTLPSQPK	EIF4ENIF1; EIF4ENI	Q9NRA8; B0QYZ	4ET	HUM	Unmodified	0	297820	364280	0	0	0	0	0	0
ASGTNDKPGGPHYILR	ALDH4A1	P30038	AL4A1	HUM	Deamidation (N)	0	0	0	180710	199070	244400	0	209960	208200
ASGTVYSGEEK	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1	HUM	Unmodified	1312500	969070	1177200	0	0	0	0	0	0
ASGTVYSGEEKLTELLVK	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1	HUM	Unmodified	6169700	6372900	4731900	0	0	0	0	0	0
ASGVAVSDGVIK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	892450	643330	761490	0	0	0	0	0	0
ASGVAVSDGVIKVFNDMK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	11555000	16508000	12736000	106980	90434	10500	18956	0	18476
ASGVAVSDGVIKVFNDMK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	8246700	4875300	5446800	61076	63137	13130	11528	0	0
ASGVAVSDGVIKVFNDMK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	0	788240	1365400	0	0	0	0	0	0
ASGVAVSDGVIKVFNDMK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	0	850370	0	0	0	0	0	0	0
ASGVAVSDGVIKVFNDMKVR	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	8801000	10399000	11225000	87437	92183	0	30734	0	38958
ASGVAVSDGVIKVFNDMKVR	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	45220000	44361000	68970000	604810	982640	602870	661520	295370	417820
ASGVAVSDGVIKVFNDMKVR	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	8739100	7954700	8228900	779950	636160	284590	357080	227140	324230
ASGVAVSDGVIKVFNDMKVR	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
ASGVAVSDGVIKVFNDMKVRK	CFL1; CFL1; CFL1; C	P23528; E9PK25;	COF1	HUMA	Acetyl (Protein N-t	16057000	12525000	14016000	460630	420120	444000	244420	147140	314270
ASGVEARQALLK	ERP29; ERP29	P30040; F8VY02	ERP29	HUM	Unmodified	0	0	0	135120	149300	177680	0	0	0
ASGVEGADVVK	HK1	P19367	HXK1	HUM	Unmodified	2393000	0	1540000	0	0	0	0	0	0
ASGVSAAAPGER	NELFB	A0A5H1ZRP4	A0A5H1ZRP4	HUM	Unmodified	7760100	5612300	5705900	695250	699380	1016900	0	0	0
ASGYFTRPWQWEK	RBBP9	O75884	RBBP9	HUM	Unmodified	639280	465920	615050	0	0	0	0	0	0
ASHEEVEGLVEK	LGALS3BP	Q08380	LG3BP	HUM	Unmodified	5693200	5446200	5250900	0	0	76110	0	0	0
ASHLGLAR	C3	P01024	CO3	HUMAN	Unmodified	2921500	846650	2314700	420350	0	424020	0	0	4768.6
ASHNIGIAMDTEQGLIVPNVK	DBT; DBT; DBT	P11182; A0A7P01	ODB2	HUMA	Oxidation (M)	627980	1882800	1064300	0	0	0	0	0	0
ASHPEDPASVVEAR	DPP7; DPP7	Q9UHL4; R4GMR	DPP2	HUM	Unmodified	1770700	1631500	4156700	279250	238500	323840	0	0	0
ASHTAPQVLFSHR	ARPC2; ARPC2	O15144; H7C3F9	ARPC2	HUM	Unmodified	0	0	1789700	0	0	0	0	0	0
ASHEAWTDGK	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	1772300	1942600	1837900	0	0	0	0	0	0
ASHEAWTDGKEAMLK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M)	834380	834250	694100	0	0	0	0	0	0
ASHEAWTDGKEAMLR	ACTN1; ACTN1	P12814; H9KV75	ACTN1	HUM	Oxidation (M)	1874700	782190	1693500	0	25815	0	0	0	0
ASHKGEDFVK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	2548100	2111300	2905900	365110	546790	473470	0	0	0
ASINMLR	RPL7; RPL7; RPL7	P18124; C9JU5; A	RL7	HUMAN	Oxidation (M);Deam	728790	675160	601730	0	0	0	0	0	0
ASIPFSVVGSNQLIEAK	SEPTIN2; SEPTIN2;	Q15019; H7C2Y0	SEPT2	HUM	Unmodified	11968000	11258000	10043000	95319	0	40535	0	0	0
ASIPFSVVGSNQLIEAK	SEPTIN2; SEPTIN2;	Q15019; H7C2Y0	SEPT2	HUM	Deamidation (N)	4608100	3896500	3810200	0	15010	13500	0	0	0
ASITALEAK	MYH9	P35579	MYH9	HUM	Unmodified	8798500	8702000	7460100	210130	219360	243100	31152	0	0
ASITPGTILIILTGR	RPL6; RPL6; RPL6; I	Q02878; U3KQR5	RL6	HUMAN	Unmodified	58512	0	53259	0	0	0	0	0	0
ASKEMFEDTVEER	RBBP7; RBBP7	Q16576; E9PC52	RBBP7	HUM	Acetyl (Protein N-t	8622000	9115700	8729400	320280	274960	312680	0	0	0
ASKEQALQDLQQQR	EEA1	Q15075	EEA1	HUMA	Unmodified	0	561460	0	0	0	0	0	0	0
ASKETHVMDYR	PSME2; PSME2; PSA	Q9UL46; A0A087	PSME2	HUM	Oxidation (M)	426870	1352600	1178300	104810	0	0	0	12171	0
ASKPLPPAPAPDEYLVSPITGEK	SF3A1; SF3A1	Q15459; H7C1L2	SF3A1	HUM	Unmodified	0	1598800	1743800	0	54615	0	0	0	0
ASKPLPPAPAPDEYLVSPITGEKIPASK	SF3A1; SF3A1	Q15459; H7C1L2	SF3A1	HUM	Unmodified	5995400	4894000	4862100	0	0	0	0	0	0
ASLASLPPLHVAK	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1	HUM	Unmodified	1583100	2236200	2913400	53518	42016	0	0	0	0
ASLEDAPVDDLTR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV	HUM	Unmodified	1571700	2234700	1872800	160770	164250	140130	0	0	0
ASLENSLREVEAR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Deamidation (N)	11601000	12293000	13401000	1490300	1377400	1438000	0	0	94679
ASLENSLREVEAR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	16751000	11276000	11666000	1242500	1146700	1081700	81687	59472	65934
ASLENVHPPIAPPPTEIPER	CBLL1; CBLL1	Q75N03; C9J2P9	HAKAI	HUM	Unmodified	920950	1021200	1211700	76426	58439	81602	0	0	0
ASLESWWQNPVPGLR	OAS3; OAS3; OAS3;	Q9Y6K5; A0A7P0	OAS3	HUMA	Unmodified	867670	1110300	742930	0	0	0	0	0	0
ASLEVSRSPRRSR	DPM1; DPM1; DPM1	O60762; Q5QPK2	DPM1	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
ASLHGGEPTTIIR	NID1	P14543	NID1	HUMA	Unmodified	2762500	2279900	3938200	463770	390820	514460	120710	131990	166490
ASLHGGEPTTIIRQDLGSPEGIAVDHLGR	NID1	P14543	NID1	HUMA	Unmodified	7699000	5967700	6078000	0	0	0	0	0	0
ASLISAVSDKLR	TSG101; TSG101	Q99816; F5H442	TS101	HUM	Unmodified	4257100	2675800	3197600	0	0	0	0	0	0
ASLLDPVEVR	GCN1	Q92616	GCN1	HUMA	Unmodified	3618900	3477800	3117000	187460	199830	203210	24963	19559	26466
ASLLQSDRVLYLVQGEK	DCTN4; DCTN4	Q9UJW0; E5RJ97	DCTN4	HUM	Acetyl (Protein N-t	414290	198500	405000	0	0	0	0	0	0
ASLNGADIYSGCCTLK	HNRNPL; HNRNPL;	P14866; B4DVF8;	HNRPL	HUM	Deamidation (N)	425820	268090	383090	0	0	17774	0	0	0
ASLPTGEGSISHEEQK	CHCHD6; CHCHD6;	Q9BRQ6; H0Y922	MIC25	HUM	Unmodified	4065000	7105700	4977700	33456	39397	30206	0	0	22267
ASLPTGEGSISHEEQKSVR	CHCHD6; CHCHD6;	Q9BRQ6; H0Y922	MIC25	HUM	Unmodified	748580	661130	653470	133740	183850	270480	0	0	0
ASLPTLGFTHFQPAQLTTVGK	ADSL; ADSL; ADSL;	P30566; A0A7P0	PUR8	HUMA	Unmodified	1772200	1405400	1910600	0	0	0	0	0	0
ASLPYSQISGLNALQLR	PIGS	Q96S52	PIGS	HUMA	Unmodified	1838000	1069000	1111800	0	0	0	0	0	0
ASLPYSQISGLNALQLR	PIGS	Q96S52	PIGS	HUMA	Deamidation (N)	1053600	447390	0	0	0	0	0	0	0
ASLQETHFDSTQTK	UBXN7; UBXN7	O94888; C9JAT7	UBXN7	HUM	Unmodified	2060700	1815700	2438300	96633	76762	81548	0	0	0
ASLRDEKGALFQAHAR	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2	HUM	Unmodified	1190700	1472200	1488200	0	0	0	0	0	0
ASLSKLGDVYVNDAFGTAHR	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Deamidation (N)	6651000	4211000	5158000	0	0	0	0	0	0
ASLSKLGDVYVNDAFGTAHR	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Methyl (KR);Deam	4096500	6969600	6785000	0	0	0	0	0	0
ASLSKLGDVYVNDAFGTAHR	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Methyl (KR)	2044700	0	2983200	0	0	0	0	0	0
ASLSLAPVNIFK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUMA	Acetyl (Protein N-t	112560	93392	94871	0	0	0	0	0	0
ASLSLIEK	KPNA2; KPNA2; KP	P52292; A0A7I2V	IMA1	HUMA	Unmodified	1362500	1340000	1798500	0	0	0	0	0	0
ASLVALPEQTASEEETPPPLLTK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	20735000	23565000	20141000	62830	49030	30023	0	0	0
ASMGTLAFDEYGRPFLIIKDQDRK	CCT5; CCT5; CCT5	P48643; D6RIZ7;	TCPE	HUMA	Acetyl (Protein N-t	10634000	8064100	9344100	0	0	0	0	0	0
ASMHPVTAMLVGK	LTA4H	P09960	LKHA4	HUM	2 Oxidation (M)	1570800	1301800	1750100	111480	137110	157200	0	0	0
ASMKMAQLQLENK	CCDC88A; CCDC88	Q3V6T2; A0A2R8	GRDN	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
ASMQPIQIAEGTGITTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	7984300	7670700	7260500	690450	633530	778930	97478	70331	0
ASMQQQQQLASAR	CHTOP; CHTOP; CH	Q9Y3Y2; X6R700	CHTOP	HUM	Oxidation (M)	10195000	11178000	12219000	1103800	1497500	2323000	0	16655	20067
ASMTNLVK	XPO5; XPO5	Q9HAV4; H0Y9I3	XPO5	HUMA	Oxidation (M)	1108000	0	1873000	0	0	0	0	0	0
ASNGDAWVEAHGK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Deamidation (N)	4066800	4451600	4777600	64809	42578	68805	0	0	0
ASNIKAPGEQTVPALNLQNAFR	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	933370	1550200	933880	0	0	0	0	0	0
ASNKTTLQK	CBX3; CBX3; CBX3	Q13185; B8ZZ43;	CBX3	HUMA	Acetyl (Protein N-t	1896300	2514100	2378700	805680	768650	235480	0	0	0
ASNKTTLQK	CBX3; CBX3; CBX3	Q13185; B8ZZ43;	CBX3	HUMA	Acetyl (Protein N-t	364410	954770	437200	47600	54160	76332	40240	25311	34169
ASNKTTLQK	CBX3; CBX3; CBX3	Q13185; B8ZZ43;	CBX3	HUMA	Acetyl (Protein N-t	0	0	0	1084400	983220	0	45148	33069	0
ASNLENSTYDLYTIPK	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUMA	Deamidation (N)	502000	485910	479760	92353	45646	70959	0	0	0
ASNLQDLVYKNGQAGITK	SMC2	O95347	SMC2	HUMA	Deamidation (N)	815480	645560	778200	0	0	0	0	0	0
ASNPDLKLWEIGK	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1	HUM	Unmodified	938570	1021700	913140	0	0	0	0	0	0
ASNPFLPGGGPATGPSVTNPFQPAPPATLTLNQLR	EPN1	Q9Y6I3	EPN1	HUMA	Unmodified	1342400	1363800	958970	0	0	0	0	0	0
ASNTADTLFQEVLGR	EXOC2	Q96KP1	EXOC2	HUM	Unmodified	273480	112050	158550	0	0	0	0	0	0
ASNVTNKTDPR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	56413000	60982000	58850000	13357000	13884000	14366000	255200	265420	0
ASNVTNKTDPR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	50899000	53454000	52147000	7619300	6012500	8254900	0	0	0
ASNVTNKTDPR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	1109400	1419500	1199600	70499	143110	128720	0	0	0
ASNVTNKTDPR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	1183700	967460	1072700	220280	206510	238230	0	0	0
ASNVTNKTDPR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	8291400	8398900	8189400	0	452200	539480	0	0	0
ASNVTNKTDPRSMNSR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	2448800	1507500	3701400	234980	237660	172550	0	0	0
ASNVTNKTDPRSMNSR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Acetyl (Protein N-t	1444400	2570200	2399900	479140	703270	806200	0	0	0
ASPAGTAGGPGAGAAAGGTGPLAAR	TAF10	Q12962	TAF10	HUM	Unmodified	1633700	1260700	1588300	0	0	0	0	0	0
ASPAPGSGHPEGPGAHLDMNSLDR	TOMM70	O94826	TOM70	HUM	Oxidation (M);Deam	3096300	3810000	4015900	50351	34273	34630	0	0	0
ASPATIEMAIETLQK	RFX3; RFX3	P48380; F6UV76	RFX3	HUMA	Oxidation (M)	913360	617470	780730	0	0	0	0	0	0
ASPATPAGHPVSGLLLR	FBRSL1; FBRSL1; FI	Q9HCM7; A0A3B	FBSL	HUMA	Unmodified	1028100	1689200	1159500	19411	0	0	0	0	0
ASPATQPPPLLPPSATGPDATVGGPAPTPLLPPSATASVK	KHDRBS1	Q07666	KHDR1	HUM	Unmodified	38061000	26112000	37065000	0	0	0	0	0	0
ASPGHSPHYFAASSPTSPNALPPAR	NUP210	Q8TEM1	PO210	HUM	Deamidation (N)	1903600	2581000	1258500	140040	264780	0	0	0	0
ASPLLPANHVTMAK	IARS2	Q9NSE4	SYIM	HUMA	Oxidation (M);Deam	0	0	409170	0	0	0	0	0	0
ASPLTHSPPDEL	CNPY3	Q9BT09	CNPY3	HUM	Unmodified	0	6115000	6242400	431210	338110	395750	40782	57849	0
ASPLVAIGQTLAR	FAM207A	Q9NSI2	F207A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ASPNPVAMETR	SAP130; SAP130; SA	Q9H0E3; A0A2R8	SP130	HUMA	Oxidation (M)	1763600	1792200	1680200	146160	150880	195560	0	0	0
ASPNTPPGRVDENGPELLPR	GCN1	Q92616	GCN1	HUMA	Deamidation (N)	1083300	1298600	1091400	35736	41579	40537	0	0	0
ASPNVEAPQPHR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUM	Unmodified	3712100	3564600	3828000	0	0	0	0	0	0
ASPPSLEQPYLTHR	WDR46	O15213	WDR46	HUM	Unmodified	2253700	1611300	1845700	102890	65878	59368	0	0	0
ASPQAADLLEK	MAPK13	O15264	MK13	HUM	Unmodified	5332100	4016700	4949900	72837	171260	32391	0	0	0
ASPQAADLLEKMLELDVDKR	MAPK13	O15264	MK13	HUM	Oxidation (M)	2120400	699050	1105600	0	0	0	0	0	0
ASPSLERPEK	KRR1	Q13601	KRR1	HUMA	Acetyl (Protein N-t	3347400	3310900	2601400	153640	165580	140280	0	24769	35551
ASPSLERPEKGAGK	KRR1	Q13601	KRR1	HUMA	Acetyl (Protein N-t	3720500	2535500	3972700	186020	146810	212330	29028	27128	0
ASPSPQPSSQPLQIHR	EML4; EML4	Q9HC35; B5MBZ	EMAL4	HUM	Unmodified	14347000	16443000	16474000	3214400	3781800	3469600	220640	260190	263210
ASPSPTDPVVPAVPIGPPPAGFR	PC; PC	P11498; A0A494	PYC	HUMA	Unmodified	2197900	1582700	1829800	0	0	0	0	0	0
ASPSPTDPVVPAVPIGPPPAGFRDILLR	PC; PC	P11498; A0A494	PYC	HUMA	Unmodified	5580200	4160800	3275200	0	0	0	0	0	0
ASPVAVGSSGAGADPSFQPVLSAR	AHDC1	Q5TGY3	AHDC1	HUM	Unmodified	938250	807370	774990	54794	39166	48478	32488	23704	0
ASPVPAPSSGLHAAVR	KIAA1522	Q9P206	K1522	HUM	Unmodified	882770	929000	1002100	112170	117940	178840	0	0	0
ASQEPSPKPGTEVIPAAPR	FLYWCH2; FLYWCI	Q96CP2; I3L1Y9;	FWCH2	HUM	Unmodified	2006800	614980	1994500	0	0	0	0	0	0
ASQKPQPNFPSPEYMIFDHEFTK	USO1	O60763	USO1	HUMA	Oxidation (M)	941680	0	634830	0	0	0	0	0	0
ASQLVSEK	SH3GL1	O99961	SH3G1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ASQPDLVDTPTSSKPQPK	MKI67	P46013	KI67	HUMA	Unmodified	1766900	2069400	1942000	44615	0	34576	0	0	0
ASQPNSSAKKKEEK	KIF11; KIF11; KIF11	P52732; A0A7I2Y	KIF11	HUMA	Acetyl (Protein N-t	0	366610	0	0	0	0	0	0	0
ASQSQGIQQLLQAEKR	ATP6V1G1; ATP6V1	O75348; O95670;	VATG1	HUM	Acetyl (Protein N-t	7231600	6663200	8182700	79528	189660	160210	30341	0	0
ASQYNIR	UBA3; UBA3	Q8TBC4; F8W8D	UBA3	HUMA	Unmodified	1212200	502060	1353500	0	0	0	0	0	0
ASREEILAQAK	MYH9	P35579	MYH9	HUM	Unmodified	3954600	3925100	3971800	230310	177880	0	24832	0	0
ASREEILAQAKENEK	MYH9	P35579	MYH9	HUM	Unmodified	5376200	4713900	2873200	63573	242190	263050	0	0	0
ASREEILAQAKENEKK	MYH9	P35579	MYH9	HUM	Unmodified	2408000	1744100	2602500	298230	0	97931	0	0	0
ASSAAGLTAAVVR	MCM6	Q14566	MCM6	HUM	Unmodified	372140	552000	414780	0	0	0	0	0	0
ASSAASSEHFEKLHEIFR	VTI1B; VTI1B; VTI1	Q9UEU0; G3V5I2	VTI1B	HUM	Acetyl (Protein N-t	648820	993700	609950	0	0	0	0	0	0
ASSASVPAVGASAEGTRR	PANK2; PANK2; PAI	Q9BZ23; V9GYZ(	PANK2	HUM	Unmodified	685790	623780	810670	0	27859	0	0	0	0
ASSDIQVK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
ASSDIQVKELEK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Acetyl (Protein N-t	6908300	5164100	6584100	385720	361860	395650	0	0	0
ASSDIQVKELEKR	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Acetyl (Protein N-t	196640000	183420000	172440000	5903800	6106400	6332700	123170	109210	121410
ASSDIQVKELEKR	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Acetyl (Protein N-t	19135000	18084000	23366000	426540	445020	413630	0	0	0

ASSEGGTAAGAGLDSLHKNSVSQISVLSGGK	ARPC1B	O15143	ARC1B_HUM	Deamidation (N)	0	0	1838400	0	0	0	0	0	0
ASSGAGDPLDSKRGEAPFAQR	COA3; COA3	Q9Y2R0; K7EPV(	COA3_HUM	Acetyl (Protein N-t	12794000	13046000	12355000	1647500	1952600	1877900	120750	93702	313820
ASSGLLYPLER	SSRP1	Q08945	SSRP1_HUM	Unmodified	13215000	8142500	8966100	0	0	0	0	0	0
ASSHSTDLMEAMAMGSVEASYK	PKM; PKM	H3BTN5; H3BR7(	H3BTN5_HU	Oxidation (M)	598750	807960	734210	0	0	0	0	0	0
ASSIIDELFQDR	CLU; CLU; CLU; CL	P10909; H0YLK8;	CLUS_HUMA	Unmodified	1217800	910660	503920	12069	0	0	20760	11419	13986
ASSLGEIDESSELR	PKN2	Q16513	PKN2_HUMA	Unmodified	1110500	707130	1054700	99180	0	0	0	0	0
ASSRLENLGIPEEELLRQQQELFAK	DR1	Q01658	NC2B_HUMA	Unmodified	0	1531400	1643600	0	0	0	0	0	0
ASSSILIDESEPTTNIQIR	NSF1C	Q9UNZ2	NSF1C_HUM	Unmodified	2440400	1778700	2000400	33990	20129	0	25014	0	0
ASSSYRETPSSSPASPQETR	SORBS1; SORBS1	Q9BX66; S4R406	SRBS1_HUM	Unmodified	982970	1243900	1199100	136100	175330	166560	243440	0	403180
ASSVIFGLK	ILKAP; ILKAP	Q9H0C8; F8SNU6	ILKAP_HUM	Unmodified	984230	1790300	836390	0	0	0	0	0	0
ASSVSTKESPAR	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF_HUMA	Unmodified	0	0	0	44951	45685	49118	0	0	6152.5
ASSVTTFTGEPNTCPR	CRIP2; CRIP2	P52943; H0YFA4	CRIP2_HUM	Unmodified	2146200	2396500	946630	210420	196470	103450	0	0	0
ASSVVVSGTPIR	FAH	P16930	FAAA_HUMA	Unmodified	527340	513060	495430	0	0	0	0	0	0
ASTALSNEQQAR	TPR	P12270	TPR_HUMAN	Unmodified	1478600	1180300	966460	0	0	0	0	0	0
ASTEGVAIQGQQGTR	NUP205	Q92621	NU205_HUM	Unmodified	622960	724460	0	0	0	0	0	0	0
ASTIEGALLIMGK	N/A	N/A	N/A	Oxidation (M)	470910	0	0	0	0	0	0	0	0
ASTKVEVDMEKAESLQVTR	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Oxidation (M)	505720	1134800	1717700	42014	58557	38496	0	0	0
ASTLQLGSPR	FASTKD5	Q7L8L6	FAKD5_HUM	Unmodified	859230	0	0	0	0	0	0	0	0
ASTNAMLISAGLPPLK	DHX15	O43143	DHX15_HUM	Oxidation (M)	1934100	1141100	2893500	47429	45171	35386	0	0	0
ASTNLQDQLEK	STAU2; STAU2; STA	Q9NUL3; E7EVI1	STAU2_HUM	Unmodified	633850	680470	775930	0	0	0	0	0	0
ASTSLKPPTADLFTGVLPNGYNPPR	MAN2B1	O00754	MA2B1_HUM	Deamidation (N)	1926600	1940200	1124400	0	0	0	0	0	0
ASVDSGSSEEQGGSSR	PIGR	P01833	PIGR_HUMA	Unmodified	0	0	0	84450	69900	110460	0	0	0
ASVDTKEAEGAPQVEAGKR	CALD1; CALD1; CA	Q05682; C9J813;	CALD1_HUM	Unmodified	1607200	1424000	1021100	0	0	51295	0	62149	55110
ASVDTKEAEGAPQVEAGKRLEELR	CALD1; CALD1; CA	Q05682; C9J813;	CALD1_HUM	Unmodified	0	477830	607910	0	0	0	232750	162050	129820
ASVGSLPGLR	GPSM1; GPSM1; GP	Q86YR5; A0A0A(	GPSM1_HUM	Unmodified	985190	0	893900	36503	23492	33376	0	0	0
ASVITQVFHVPLEERK	HDLBP; HDLBP; HD	Q00341; A0A024I	VIGLN_HUM	Unmodified	1006100	912610	864650	0	8955.3	0	0	0	0
ASVLDTSMAGSGSPSK	LIMCH1; LIMCH1; L	Q9UPQ0; H0Y8P	LIMC1_HUM	Oxidation (M)	417240	465970	481190	0	0	0	0	0	0
ASVLFDTMQHHLALNR	MAP1B	P46821	MAP1B_HUM	Oxidation (M)	1575300	1465900	1496900	67592	71175	60403	0	0	0
ASVLLGSR	NUP93; NUP93; NUI	Q8N1F7; H3BRI8	NUP93_HUM	Unmodified	1475900	1390700	1171600	0	51855	0	0	0	0
ASVSQVEADLK	CKAP4	Q07065	CKAP4_HUM	Unmodified	803110	839750	649790	0	0	0	0	0	0
ASVTIQAR	CCDC6	Q16204	CCDC6_HUM	Unmodified	1976000	1594200	1950200	179120	141740	0	0	0	0
ASVTVGGEQISAIGR	DTD1; DTD1; DTD1	Q8TEA8; A0A2R8	DTD1_HUMA	Unmodified	1344800	1298400	1329200	78594	36309	41361	0	0	0
ASVVPVKDKK	ATP5MF-PTCD1; AT	G3V325; C9JJT5	G3V325_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
ASVVTLPVYLNFTR	DYNC1H1; DYNC1H	Q14204; A0A2R8	DYHC1_HUM	Unmodified	689200	518860	461960	0	0	0	0	0	0
ASVVTLPVYLNFTR	DYNC1H1; DYNC1H	Q14204; A0A2R8	DYHC1_HUM	Deamidation (N)	0	257690	441540	0	0	0	0	0	0
ASWSSLSMDEKVELYR	COX4I1; COX4I1; CC	P13073; H3BPG0;	COX41_HUM	Oxidation (M)	2854500	3437700	2049000	0	0	0	0	0	0
ASYAAEERIEGR	VPS16	Q9H269	VPS16_HUM	Unmodified	548310	302700	389320	40585	32600	36623	0	11727	0
ASYAEQLSMLKK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Oxidation (M)	2026600	1837000	2143500	0	0	0	0	0	0
ASYAQQPAESR	HSPG2	P98160	PGBM_HUM	Unmodified	3745700	3519400	0	0	926290	0	0	0	33745
ASYGVEDPEYAVTQLAQTTMR	STOML2; STOML2	Q9UJZ1; A0A087	STML2_HUM	Oxidation (M)	2394700	2929700	1922000	0	0	0	0	0	0
ASYILMEK	GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Oxidation (M)	814690	819050	852440	0	37197	0	0	0	0
ASYLEIYQEEIRDLLSKDQTK	KIF3B	O15066	KIF3B_HUM	Unmodified	333500	90096	214750	0	0	0	0	0	0
ASYVAPLTAQPATYR	RBM14	Q96PK6	RBM14_HUM	Unmodified	13935000	12850000	11017000	557010	594060	557380	31481	66759	40193
ATAAELLR	RDH14	Q9HBH5	RDH14_HUM	Unmodified	1516000	1414000	1862900	48556	28624	42564	0	0	0
ATAAELLRLGARVIMGCR	RDH14	Q9HBH5	RDH14_HUM	Oxidation (M);Metl	3141400	1324300	1993400	0	0	0	0	0	0
ATAAETSASEPEAESKAGPKADGEEDEVKAAR	SART3; SART3; SAR	Q15020; A0A494(	SART3_HUM	Acetyl (Protein N-t	933960	1278100	1137900	1362900	1001800	1669600	0	0	0
ATAATEEPFPFHGLLPK	TPP2; TPP2; TPP2; T	P29144; A0A494(	TPP2_HUMA	Acetyl (Protein N-t	1399600	1230000	1216900	0	0	0	0	0	0
ATAFNEQVDKFFPLIEVNK	RPA1	P27694	RFA1_HUMA	Deamidation (N)	588270	590990	569840	0	0	0	0	0	0
ATAGGGSGADPGSR	NCSTN; NCSTN; NC	Q92542; Q5T210;	NICA_HUMA	Acetyl (Protein N-t	0	0	0	0	14609	37279	0	0	0
ATAISLMR	SUPT5H; SUPT5H	O00267; M0QYL5	SPT5H_HUM	Oxidation (M)	1349600	584150	1084300	0	0	0	0	0	0
ATAPQTQHVSPMR	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D_HUMA	Oxidation (M)	32645000	31196000	46885000	2783000	2947700	0	0	286210	0
ATAPQTQHVSPMRQVEPPAK	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D_HUMA	Oxidation (M)	813460	848430	782890	0	0	275750	0	0	0
ATAPVPTVGEGYGYGHESELSQASAAAR	RBM4; RBM4	Q9BWF3; E9PB5	RBM4_HUM	Unmodified	10256000	6880600	10770000	547030	647770	502280	0	72754	82287
ATAPVPTVGEGYGYGHESELSQASAAARNSLYDMAR	RBM4; RBM4	Q9BWF3; E9PB5	RBM4_HUM	Oxidation (M);Deai	3088100	2258100	1590500	0	0	0	0	0	0
ATAPVSFNYYGVVTGPSASK	BROX; BROX; BRO	Q5VW32; F5GXQ	BROX_HUM	Unmodified	972550	808410	700520	0	0	0	0	0	16267
ATAPVSFNYYGVVTGPSASK	BROX; BROX; BRO	Q5VW32; F5GXQ	BROX_HUM	Deamidation (N)	212460	284150	247170	0	0	0	0	0	0
ATAQDNPK	AIFM1; AIFM1; AIFN	O95831; E9PMA0	AIFM1_HUM	Unmodified	192130	166280	57982	121460	8793.7	0	0	0	0
ATAQDNPKSATEQSGTGIR	AIFM1; AIFM1; AIFN	O95831; E9PMA0	AIFM1_HUM	Unmodified	223310	181510	197880	152770	203970	217260	0	0	0
ATATALER	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2_HUM	Unmodified	3252300	2990500	2398200	48395	60218	116520	0	0	0
ATATISAKPQITNPKAEITR	WBP11	Q9Y2W2	WBP11_HUM	Unmodified	702730	746380	911280	0	0	0	0	0	0
ATATQLLQHPFIK	STK3; STK3; STK3	Q13188; A0A087	STK3_HUMA	Unmodified	855830	1072900	825950	15235	16745	12767	0	0	0
ATATQLLQHPFVR	STK4; STK4	Q13043; F5H5B4	STK4_HUMA	Unmodified	3402400	2606600	2618200	83435	69457	69335	0	0	0
ATATSCRPCPCPYIDASR	HSPG2	P98160	PGBM_HUM	Unmodified	1045600	921890	802000	0	156060	0	0	0	0
ATAVVDGAFK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	8370300	7497000	12851000	15387	0	0	0	0	0
ATAVVDGAFKEVK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	18139000	4108500	14720000	144990	172340	102020	0	0	0
ATAVVDGAFKEVK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Methyl (KR)	973380	986280	463460	0	0	0	0	0	0
ATDCVGHDVVTLLR	HK1	P19367	HXK1_HUMA	Unmodified	0	0	1292700	0	0	0	0	0	0
ATDDLINVTGR	DBR1	Q9UK59	DBR1_HUMA	Unmodified	3407400	3241500	2722300	59484	0	128320	0	0	0
ATDELATKLSRR	EFHD2	Q96C19	EFHD2_HUM	Acetyl (Protein N-t	1774000	1339500	842400	0	0	0	0	0	0
ATDFVADR	IDH2; IDH2	P48735; H0YL11	IDHP_HUMA	Unmodified	11049000	11085000	13206000	413200	428550	557130	0	0	0
ATDFVADRAGTFK	IDH2; IDH2	P48735; H0YL11	IDHP_HUMA	Unmodified	834730	0	0	87763	67360	0	0	0	0
ATDFVVPGPGK	IDH1; IDH1	O75874; C9J4N6	IDHC_HUMA	Unmodified	4869900	4687900	4323900	746630	847950	652960	0	0	0
ATDFVVPGPGKVEITYTPSDGTQK	IDH1	O75874	IDHC_HUMA	Unmodified	5983600	2154100	2074900	26490	24135	0	0	0	0
ATDLGGTSQAGTSQR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	1442200	1433000	1277600	159820	173670	132300	0	0	0
ATDLPER	SUPT6H	Q7KZ85	SPT6H_HUM	Unmodified	906460	971580	580500	0	0	0	0	0	0
ATDSSDPLKPYQDFIIDSR	TRNT1	Q96Q11	TRNT1_HUM	Unmodified	725640	744280	0	0	0	0	0	0	0
ATDVMIAGK	AHCY	P23526	SAHH_HUMA	Oxidation (M)	6120900	7040500	5896400	0	437990	0	0	0	0
ATEAGSLEAR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2_HUM	Unmodified	1810600	1957500	2665400	77789	0	0	0	0	0
ATEATAMAMGR	GATAD2A; GATAD2	Q86YP4; C9JJK9;	P66A_HUMA	2 Oxidation (M)	137740	410200	620320	0	0	0	0	0	0
ATEDGEEDEEMIESIENLEDLKGHSVR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Oxidation (M)	2014400	0	3592500	0	0	0	0	0	0
ATEEKKPETEAAR	WDR5; WDR5; WDR	P61964; V9GZ59;	WDR5_HUM	Acetyl (Protein N-t	15672000	0	8538400	0	0	2787200	0	0	0
ATEHLSTLSEK	APOA1; APOA1	P02647; F8W696	APOA1_HUM	Unmodified	1434200	1402800	1929700	0	0	0	0	0	0
ATEHPEPPK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2_HUM	Acetyl (Protein N-t	790240	796360	610780	0	0	19528	0	0	0
ATEHPEPPKAELQLPPPPPPGHYGAWAAQELQAK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2_HUM	Acetyl (Protein N-t	0	2653500	2729300	0	0	0	0	0	0
ATEISTAVVQR	FNBP4	Q8N3X1	FNBP4_HUM	Unmodified	575520	384310	405650	0	0	0	0	0	0
ATELKLEATQDMTPSSK	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Oxidation (M)	698490	388700	512640	0	0	0	0	0	0
ATEMLIFGK	ECI2; ECI2	O75521; A0A0C4	ECI2_HUMA	Oxidation (M)	2019000	1597300	1749100	90897	0	85800	0	0	0
ATENDIANFFSPLNPIR	HNRNPH3	P31942	HNRH3_HUM	Deamidation (N)	41746000	41160000	36318000	9295.8	0	0	0	0	0
ATENDIANFFSPLNPIR	HNRNPH3	P31942	HNRH3_HUM	2 Deamidation (N)	18192000	13391000	14139000	11045	0	0	0	0	0
ATENDIANFFSPLNPIR	HNRNPH3	P31942	HNRH3_HUM	Unmodified	32000000	22774000	30830000	0	8224.4	0	0	0	0
ATENDIYNFFSPLNPMR	HNRNPH2	P55795	HNRH2_HUM	Oxidation (M);2 De	4008400	4566400	5299900	0	0	0	0	0	0
ATENDIYNFFSPLNPMR	HNRNPH2	P55795	HNRH2_HUM	Oxidation (M)	10594000	8454800	5276100	0	0	0	0	0	0
ATENDIYNFFSPLNPMR	HNRNPH2	P55795	HNRH2_HUM	Oxidation (M);Deai	13827000	9084400	12718000	11553	0	12476	0	0	0
ATENDIYNFFSPLNPVR	HNRNPH1; HNRNPF	P31943; P52597; I	HNRH1_HUM	Deamidation (N)	33743000	32032000	33646000	0	0	0	0	0	0
ATENDIYNFFSPLNPVR	HNRNPH1; HNRNPF	P31943; P52597; I	HNRH1_HUM	2 Deamidation (N)	11571000	9065800	11896000	0	0	0	0	0	0
ATENDIYNFFSPLNPVR	HNRNPH1; HNRNPF	P31943; P52597; I	HNRH1_HUM	Unmodified	21134000	16392000	25791000	20140	0	19174	17343	0	18814
ATENDIYNFFSPLNPVR	HNRNPH1; HNRNPF	P31943; P52597; I	HNRH1_HUM	3 Deamidation (N)	1231900	721540	905350	0	0	0	0	0	0
ATENPEQVASEGLPEPVLR	MRPL4; MRPL4; MR	Q9BYD3; K7ES61	RM04_HUMA	Unmodified	7772000	6144700	8497200	0	326840	271940	0	0	0
ATEPHMLETYTPEVTK	XPO7; XPO7	Q9UIA9; E7ESC6	XPO7_HUMA	Oxidation (M)	0	1620100	0	0	0	0	0	0	0
ATEPVIAFYEK	AK1; AK1	P00568; Q5T9B7	KAD1_HUMA	Unmodified	5029100	4641800	3954600	0	0	0	0	0	0
ATEPVIAFYEKR	AK1; AK1	P00568; Q5T9B7	KAD1_HUMA	Unmodified	3776700	3299500	5061500	0	40790	0	0	0	0
ATESGAQSAPLPMEGVDISPK	FKBP4; FKBP4	Q02790; F5H120	FKBP4_HUM	Oxidation (M)	1333400	1288600	1450200	0	0	90170	0	0	0
ATETVELHK	SARNP; SARNP; SAI	P82979; F8VZQ9;	SARNP_HUM	Acetyl (Protein N-t	4745000	3886000	4624600	281030	217850	194060	0	0	0
ATETVELHKLK	SARNP; SARNP; SAI	P82979; F8VZQ9;	SARNP_HUM	Acetyl (Protein N-t	0	3074200	4458700	250160	232900	0	58077	30789	23968
ATEVQFPVKPVVSSEAK	TLK1	Q9UKI8	TLK1_HUMA	Unmodified	861930	1133800	725120	0	0	27480	0	0	0
ATEVSKTPEAR	MAGED2; MAGED2	Q9UNF1; Q5H900	MAGD2_HUM	Unmodified	0	0	1551400	0	0	0	0	0	0
ATEVTVAR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	3787200	0	4769100	107420	192040	228380	0	0	0
ATFDAISK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Unmodified	34159000	25637000	28963000	0	0	0	0	0	0
ATFIKVPQNQNGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	2 Deamidation (N)	8914200	4060200	6768500	0	0	66958	0	0	0
ATFIKVPQNQNGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	5082300	5159200	5465700	40705	38021	17866	0	0	0
ATFIKVPQNQNGKSK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	5120200	5817400	4466000	0	0	0	0	0	0
ATFIKVPQNQNGKSK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	2 Deamidation (N)	4581300	4679500	6275000	0	0	11895	0	0	0
ATFISVQLKK	PDCD6IP; PDCD6IP;	Q8WUM4; F8WE(	PDC6I_HUM	Acetyl (Protein N-t	993100	934610	917550	122220	94947	96937	45391	36033	46139
ATFQTPDFIVPLTDLR	APOB	P04114	APOB_HUM	Unmodified	215320	201990	181380	0	0	0	0	0	0
ATGAAAAEAK	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1_HUM	Unmodified	1336400	367410	893350	0	0	11531	0	0	0
ATGANATPLDFPSKKR	SF1; SF1	Q15637; F8WEV5	SF01_HUMA	Acetyl (Protein N-t	320470	0	0	195120	144670	110150	0	56903	18691
ATGANATPLDFPSKKR	SF1; SF1	Q15637; F8WEV5	SF01_HUMA	Acetyl (Protein N-t	715720	122570	530320	147760	279450	262300	0	36047	61758
ATGDETGAK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	0	128520	85086	0	0	0	0	0	0
ATGDETGAKVER	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	7488400	9145000	6143700	594580	624520	571260	0	0	0
ATGDETGAKVERADGYEPPVQESV	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	7725900	9987200	9555700	2141600	1756300	1392600	0	0	0
ATGEADVEFVTHEDAVAAMSK	HNRNPH3	P31942	HNRH3_HUM	Oxidation (M)	6863600	7551700	6143400	0	0	0	0	0	0
ATGFGFVFFR	RBM12	Q9NTZ6	RBM12_HUM	Unmodified	628230	770480	473660	0	0	0	0	0	0
ATGKNLSEAQLR	CALML5	Q9NZT1	CALL5_HUM	Deamidation (N)	592430	599270	478650	0	0	0	0	0	0
ATGLHFR	IQGAP3; IQGAP1; IQ	Q86VI3; P46940;	IQGA3_HUM	Unmodified	426090	1404100	1287000	0	0	39815	0	0	0
ATGPPVSELITK	H1-5	P16401	H15_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
ATGSEVSQR	DSP	P15924	DESP_HUMA	Unmodified	2633600	698510	0	45323	200490	0	0	0	0
ATGSPVSIFVVDVKPGAEEQTQVAK	SCYL1; SCYL1; SCY	Q96KG9; E9PS17	SCYL1_HUM	Unmodified	0	825750	433670	0	0	0	0	0	0
ATHDGAPELGAGGTR	HDHD5; HDHD5	Q9BXW7; A8MY	HDHD5_HUM	Unmodified	2918200	3905400	2848700	26117	0	36921	0	0	0
ATHGQTCAR	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2_HUM	Acetyl (Protein N-t	902720	1063600	750280	0	0	0	0	0	0
ATHGQTCARPMCIPPSYADLGK	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2_HUM	Acetyl (Protein N-t	1695600	1441500	2121100	64416	0	62026	0	0	0
ATIAGGGVIPHIHK	H2AZ2; H2AZ1	Q71UI9; P0C0S5	H2AV_HUMA	Unmodified	14687000	11134000	14031000	95569	76575	104490	0	0	0
ATIAGGGVIPHIHKKSLIGK	H2AZ2; H2AZ1	Q71UI9; P0C0S5	H2AV_HUMA	Methyl (KR)	0	674390	759600	0	0	0	0	0	0

ATIERDGYAQILR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_	HUM/	Unmodified	6259200	7408100	7309300	192510	171070	96048	0	40373	0
ATIGADFLTK	RAB7A; RAB7A; RA	P51149; C9J4S4;	RAB7A_	HUM	Unmodified	6148200	5974900	4203900	0	24945	289130	0	0	0
ATILPLPSHSSVQMQNLVAR	CASZ1	Q86V15	CASZ1_	HUM	Oxidation (M)	2939800	1232700	1889000	20773	12350	0	0	0	0
ATIQFHQPQR	RIOX2	Q8IUF8	RIOX2_	HUM/	Unmodified	0	0	0	0	0	0	0	0	0
ATIQGVLR	AP2A1	O95782	AP2A1_	HUM	Unmodified	1237000	1054200	1053000	0	0	0	0	0	0
ATISDEEIER	CHMP2B; CHMP2B;	Q9UQN3; C9J0A7	CHM2B_	HUM	Unmodified	4048400	4351600	3935900	0	0	179830	0	0	0
ATISDEEIERQLK	CHMP2B; CHMP2B;	Q9UQN3; C9J0A7	CHM2B_	HUM	Unmodified	1110200	998280	0	20631	23934	0	0	0	0
ATISNDGATILKLLDVVHPAAK	CCT7; CCT7	Q99832; F8WAM	TCPH_	HUMA	Methyl (KR)	387380	215440	169200	0	0	0	0	0	0
ATISNDGATILKLLDVVHPAAK	CCT7; CCT7	Q99832; F8WAM	TCPH_	HUMA	Deamidation (N)	412000	304570	289560	0	0	0	0	0	0
ATISNDGATILKLLDVVHPAAK	CCT7; CCT7	Q99832; F8WAM	TCPH_	HUMA	Methyl (KR);Deam	672410	1059300	1068300	0	0	0	0	0	0
ATISNDGATILKLLDVVHPAAK	CCT7; CCT7	Q99832; F8WAM	TCPH_	HUMA	Unmodified	314650	290800	314720	0	0	0	0	0	0
ATISNPITGDLETVHYR	P4HA1	P13674	P4HA1_	HUM	Unmodified	4711700	3434600	3101100	0	0	0	0	10207	0
ATKIDKEACR	COTL1	Q14019	COTL1_	HUM	Acetyl (Protein N-t	10380000	8811700	7895700	468460	511580	406990	54059	62019	45595
ATKIDKEACR	COTL1	Q14019	COTL1_	HUM	Acetyl (Protein N-t	0	0	950740	47799	55610	51775	0	8368.8	0
ATKKEPAVLELEGKK	CAP1	Q01518	CAP1_	HUM	Unmodified	1504800	1853400	1825100	70833	0	52462	0	0	0
ATKSPEEGAETPVYLALLPPDAEGPHGQFVSEK	CBR1	P16152	CBR1_	HUM	Unmodified	3645100	3273400	2572700	0	0	0	0	0	0
ATKVPLVAEKPLKEPK	GARS1; GARS1; GAI	P41250; A0A6Q8I	GARS_	HUM	Unmodified	0	721770	564030	0	0	0	0	0	0
ATLGPTPTTPPQPPDPSQPPPGPMQH	PPP1R11; PPP1R11	O60927; Q5SRK2	PP1RB_	HUM	Oxidation (M)	1964500	1663200	0	243700	237250	95985	0	0	0
ATLKDQLIYNLLK	LDHA; LDHA; LDH/	P00338; F5GXU1;	LDHA_	HUM/	Acetyl (Protein N-t	384810	276630	504610	0	0	0	0	0	0
ATLKDQLIYNLLKEEQTPQNK	LDHA; LDHA; LDH/	P00338; F5GXU1;	LDHA_	HUM/	Acetyl (Protein N-t	32962000	19396000	38983000	0	0	0	0	0	0
ATLKDQLIYNLLKEEQTPQNK	LDHA; LDHA; LDH/	P00338; F5GXU1;	LDHA_	HUM/	Acetyl (Protein N-t	1316600	1519600	2179800	0	0	0	0	0	0
ATLKDQLIYNLLKEEQTPQNK	LDHA; LDHA; LDH/	P00338; F5GXU1;	LDHA_	HUM/	Acetyl (Protein N-t	3995000	2977600	3698900	0	0	0	0	0	0
ATLLQQR	MKI67	P46013	KI67_	HUMA	Unmodified	853660	896040	861920	0	0	0	0	0	0
ATLPSPDKLPGFK	UBA1; UBA1	P22314; Q5JRR6	UBA1_	HUMA	Unmodified	10601000	0	9550700	0	0	0	0	0	0
ATLVESSTSGFTPGGGGSSVSMIASR	NASP; NASP; NASP	P49321; H0YDS9;	NASP_	HUMA	Oxidation (M)	4125700	4484200	3330800	0	0	0	0	0	0
ATLWYVPLSLK	ACOT7; ACOT7	O00154; K7EKP8	BACH_	HUM/	Unmodified	5315400	4162700	3371800	0	0	0	0	0	0
ATMEAYSR	ANXA7	P20073	ANXA7_	HUM	Oxidation (M)	14514000	9924800	10016000	0	2450700	4756600	0	34124	0
ATMQGDREQLK	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP_	HUM/	Unmodified	197450	284960	273470	0	0	0	0	0	0
ATMRRREESLGEAR	SPTBN2	O15020	SPTN2_	HUM	Unmodified	0	0	0	1832100	1426000	1711400	40786	0	44992
ATNESEDEIPQLVPIGK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1_	HUM	Unmodified	2149400	2192900	1017700	83833	64785	0	0	0	0
ATNESEDEIPQLVPIGK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1_	HUM	Deamidation (N)	2832900	0	3077500	65295	49470	38501	0	0	0
ATNESEDEIPQLVPIGKK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1_	HUM	Deamidation (N)	2686000	1747000	1800100	0	0	0	0	0	0
ATNESEDEIPQLVPIGKK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1_	HUM	Unmodified	952620	1399200	1227900	60396	55376	44905	14340	0	0
ATNFLAHEK	EEF1D; EEF1D; EEF	P29692; E9PJD0;	EF1D_	HUMA	Acetyl (Protein N-t	6149100	4906300	6248400	230760	189700	226620	0	0	25271
ATNFLAHEK	EEF1D; EEF1D; EEF	P29692; E9PJD0;	EF1D_	HUMA	Acetyl (Protein N-t	13462000	13057000	11768000	679760	574130	612770	0	72550	61020
ATNFLAHEKIWFDK	EEF1D; EEF1D; EEF	P29692; E9PJD0;	EF1D_	HUMA	Acetyl (Protein N-t	0	993120	461620	0	0	0	0	0	0
ATNIEQIFR	SON; SON	P18583; J3QSZ5	SON_	HUMA	Acetyl (Protein N-t	471610	329800	315650	0	0	0	0	0	0
ATNMTVSAIR	CPT2; CPT2; CPT2;	P23786; A0A1B0	CPT2_	HUMA	Oxidation (M)	777470	831090	920700	42043	39702	0	0	0	0
ATNWGSLLQDKQQLEELAR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_	HUMA	Acetyl (Protein N-t	1555500	856220	840580	0	0	0	0	0	0
ATPAQTPR	MCM4; MCM4; MC	P33991; A0A3B3	MCM4_	HUM	Unmodified	22022000	10134000	6380600	0	0	0	0	31902	32143
ATPATAPGTSPR	AGAP3; AGAP3	Q96P47; H0Y873	AGAP3_	HUM	Unmodified	449910	915360	0	116280	116050	112600	0	0	0
ATPEEKLKLEDFFAR	G6PD; G6PD; G6PD;	P11413; E7EM57;	G6PD_	HUMA	Unmodified	1071800	707210	703220	0	0	0	0	0	0
ATPEQYQILK	FDPS; FDPS	P14324; A0A0873	FPPS_	HUMA	Unmodified	1170900	0	1113100	0	0	0	0	0	0
ATPGPVIPEVPFEPSKPPVIEGLSPTVYR	HIGD2A	Q9BW72	HIG2A_	HUM/	Acetyl (Protein N-t	2145500	1182500	1867700	0	0	0	0	0	0
ATPQVPVLR	TUBGCP2	Q9BSJ2	GCP2_	HUMA	Unmodified	1863300	1707700	1902500	44544	51710	41421	0	0	0
ATPSENLVPSSAR	CPSF7; CPSF7; CPSI	Q8N684; F5H6M0	CPSF7_	HUM/	Unmodified	7540700	3937200	0	327110	0	0	0	16066	0
ATQADLMELDMAMEPDRK	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1_	HUM	Acetyl (Protein N-t	3167200	3707600	3412000	635260	617690	644760	0	0	0
ATQELIPIEDFITPLK	MRPL40	Q9NQ50	RM40_	HUMA	Unmodified	458060	460270	430350	0	0	0	0	0	0
ATQEWLEK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_	HUM	Unmodified	609670	999320	1789000	0	0	0	0	0	0
ATQFTGATGAIMTTETTK	DSG2	Q14126	DSG2_	HUMA	Oxidation (M)	2041000	2025600	1182200	0	0	0	0	0	0
ATQFTGATGAIMTTETTKTAR	DSG2	Q14126	DSG2_	HUMA	Oxidation (M)	0	0	380400	536250	492740	505930	53414	46954	0
ATQGPGLAAR	LEMD2; LEMD2	Q8NC56; H7C2Z0	LEMD2_	HUM	Unmodified	2797200	2140500	3166200	336170	298310	350230	0	46181	56790
ATQIPSYK	ACP3	P15309	PPAP_	HUMA	Unmodified	0	0	0	1887000	2369900	1925600	100660	53895	0
ATQIPSYKK	ACP3	P15309	PPAP_	HUMA	Unmodified	0	0	0	320420	333310	424710	36329	0	51523
ATQKGDPVAILKR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_	HUM	Unmodified	307560	398100	518410	0	0	0	0	0	0
ATQMPEGGQGAPPMVQLYK	PRKDC	P78527	PRKDC_	HUM	2 Oxidation (M)	1718700	1658600	1602000	0	0	0	0	0	0
ATQMPEGGQGAPPMVQLYKR	PRKDC	P78527	PRKDC_	HUM	2 Oxidation (M)	1566600	1394800	2214900	129310	0	0	0	14160	0
ATQPETTEEVTDLKR	SHTN1	A0MZ66	SHOT1_	HUM	Unmodified	6373000	9054400	8719100	496110	388960	470260	0	0	0
ATQPETTEEVTDLKR	SHTN1	A0MZ66	SHOT1_	HUM	Methyl (KR)	937610	1219300	1310800	69885	0	0	0	0	0
ATQQAEQLSNELATER	MYH11	P35749	MYH11_	HUM	Unmodified	0	0	0	0	16978	0	269680	321830	235700
ATQQQHDFTLTQTADGR	PRKDC	P78527	PRKDC_	HUM	Unmodified	14424000	11531000	11517000	878650	724660	1896400	49161	89267	43771
ATQSVLQEK	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_	HUM	Unmodified	648790	633960	581000	0	0	0	0	0	0
ATQVEPLLPGGATLLQAEEHGGLVR	LARP1; LARP1	Q6PKG0; A0A0B	LARP1_	HUM	Acetyl (Protein N-t	200040	0	0	0	0	0	0	0	0
ATRDELPYTFAAPESYEELR	NOP14; NOP14	P78316; E9PFK5	NOP14_	HUM	Unmodified	965560	650860	675860	0	0	0	0	0	0
ATRPSDDPLSLLDPLWTLNKT	PTPN23	Q9H3S7	PTN23_	HUM	Unmodified	280980	74138	253100	0	0	0	0	0	0
ATRVEEAAAR	TXLNG	Q9NUQ3	TXLNG_	HUM	Acetyl (Protein N-t	1030500	1416900	1386400	289380	283890	253750	0	0	0
ATSETLAADPTPAATIVHFK	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1_	HUM	Unmodified	0	1264600	0	0	0	0	0	28055	0
ATSFLLALEPELEAR	RPN1; RPN1	P04843; F8WF32	RPN1_	HUMA	Unmodified	1531400	523180	1219000	0	0	0	0	0	0
ATSGANGPGSATASASNPR	CRTC2; CRTC2; CR	Q53ET0; Q5T4K5	CRTC2_	HUM	Deamidation (N)	1121200	1808900	722090	0	0	0	0	0	0
ATSHVGEIEQELALAR	CLIP1; CLIP1; CLIP1	P30622; F5H0N7;	CLIP1_	HUMA	Unmodified	975800	605830	1157700	0	0	0	0	0	0
ATSLGRPEEEEDELAHR	CPOX; CPOX	P36551; D6RER6	HEM6_	HUM	Unmodified	0	1885100	1642400	62656	168620	136760	0	0	0
ATSLHEGPTNQLDLLIR	ELF2	D6RHI1	D6RHI1_	HUM	Acetyl (Protein N-t	925080	767270	876630	0	0	0	0	0	0
ATSLHEGPTNQLDLLIR	ELF2	D6RHI1	D6RHI1_	HUM	Acetyl (Protein N-t	188700	221780	308140	0	0	0	0	0	0
ATSNVFAMFDQSQIQEFK	MYL12A; MYL12B;	P19105; O14950;	ML12A_	HUM	Oxidation (M)	7882800	7318500	7869500	0	0	0	0	15702	11670
ATSPQKSPSVPKSPTPK	PARVA	Q9NVD7	PARVA_	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	78252	81465	89550
ATSSGRLPLPSPALEYTLGSR	IRF2BP1	Q8IU81	I2BP1_	HUM	Unmodified	3524300	3603700	3656400	33322	0	0	0	0	0
ATSSSSGSLSATGR	LMNB2	Q03252	LMNB2_	HUM	Unmodified	4057800	4486000	3878500	2649500	2335400	2617300	135060	0	36090
ATSSTQSLAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_	HUM	Unmodified	7204300	6988100	0	2046500	2075900	2146300	0	0	0
ATSTATSGFAGAIGQK	HSD17B4; HSD17B4	P51659; E7EPL9;	DHB4_	HUMA	Unmodified	659930	676050	482160	0	0	0	0	0	0
ATSTSDMLLK	RBM22; RBM22	Q9NW64; E5RJW	RBM22_	HUM	Oxidation (M)	918430	885900	742930	143390	0	65109	0	0	0
ATSVSVQDDRIR	MSH3; MSH3; MSH3	P20585; A0A590	MSH3_	HUMA	Unmodified	307710	388840	459640	0	8507.2	0	0	0	0
ATTADGSSILDR	COPS4; COPS4; COI	Q9BT78; D6RAX	CSN4_	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
ATTGTPTADRGDAAATDDPAAR	DPP9; DPP9; DPP9;	Q86TI2; M0R3C4	DPP9_	HUMA	Acetyl (Protein N-t	899360	881280	1302000	0	0	0	0	0	0
ATTGTQTLLSSGTR	SUGP2; SUGP2; SUC	Q8IX01; M0R2Z9	SUGP2_	HUM	Unmodified	1370500	1231400	424790	0	0	0	0	0	0
ATTLSNAVSSLASTGLSLTK	PICALM; PICALM; I	Q13492; H0YEF7;	PICAL_	HUM	Unmodified	1517200	971650	1179000	0	0	0	0	0	0
ATTLSNAVSSLASTGLSLTK	PICALM; PICALM; I	Q13492; H0YEF7;	PICAL_	HUM	Deamidation (N)	237090	205270	216690	0	0	0	0	0	0
ATTPADGEEPAPEAEALAAAR	TP53RK; TP53RK	Q96S44; Q5JZ02	PRPK_	HUMA	Unmodified	1208000	1326500	1031700	86538	75124	57117	0	0	0
ATTPVIMVGPGTGVAPFIGFIQER	POR; POR; POR	P16435; H0Y4R2;	NCPR_	HUMA	Oxidation (M)	1671000	1310300	1325800	0	0	0	0	0	0
ATTVPDFQETRPR	SH3GLB2; SH3GLB2	Q9NR46; B7ZC38	SHLB2_	HUM	Unmodified	1667000	1377000	1297400	221170	211470	192160	0	0	0
ATVAAFAASEGHSHPR	LIN7A; LIN7C; LIN7	O14910; Q9NUP9	LIN7A_	HUM	Unmodified	5190200	1885000	6134600	530100	452180	467310	0	0	0
ATVAPEDVSEVIFGHVLAAGCGQNPVR	ACAT2	Q9BWD1	THIC_	HUMA	Unmodified	3658200	3409800	767290	0	0	0	0	0	0
ATVASSTQKFQDLGVK	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_	HUM	Unmodified	709570	662550	748920	45717	73568	59035	0	0	0
ATVASSTQKFQDLGVKNSEPSAR	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_	HUM	Deamidation (N)	7433300	6757900	8386300	329360	370860	391290	69586	54602	96398
ATVEDEKLQGKINDEDKQK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_	HUM	3 Methyl (KR)	694060	455680	502370	0	0	0	0	0	0
ATVEDEKLQGKINDEDKQK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_	HUM	3 Methyl (KR);Dea	6267400	7783600	6047000	74068	0	0	0	0	0
ATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIK	EIF4E; EIF4E	P06730; D6RFJ3	IF4E_	HUMA	Acetyl (Protein N-t	1822900	1413600	2233200	0	0	0	0	0	0
ATVLESEGTR	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_	HUM	Unmodified	8832400	6853600	6117800	181780	0	185590	0	0	0
ATVLESEGTRESAINVAEGK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_	HUM	Unmodified	2128700	1987300	1604400	0	80204	0	0	0	0
ATVLESEGTRESAINVAEGKK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_	HUM	Unmodified	19309000	17334000	21253000	690600	832560	843800	73962	0	69590
ATVLESEGTRESAINVAEGKK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_	HUM	Deamidation (N)	723510	1158100	0	0	0	24257	0	0	0
ATVLLSMSK	PDCD4	Q53EL6	PDCD4_	HUM	Oxidation (M)	664260	924020	774950	0	0	0	0	0	0
ATVLQTVFEDYVHSSER	DDX31; DDX31	Q9H8H2; F8WAJ	DDX31_	HUM	Unmodified	1274300	812340	1061800	0	0	0	0	0	0
ATVLTTER	PRPF19; PRPF19; PR	Q9UMS4; F5H2I0	PRP19_	HUM	Unmodified	8507000	7827200	6950500	43618	0	0	0	0	0
ATVMDVKPVDYR	RPA1; RPA1	P27694; I3L4R8	RFA1_	HUMA	Oxidation (M)	2881800	3877600	2497600	0	0	0	0	0	0
ATVMDVKPVDYREYGR	RPA1; RPA1	P27694; I3L4R8	RFA1_	HUMA	Oxidation (M)	1159500	872940	1196500	0	0	0	0	0	0
ATVMLYDDGNKR	VASP; VASP; VASP;	P50552; K7ENR7;	VASP_	HUMA	Oxidation (M)	1707600	1406500	2188300	189410	133190	167150	0	0	0
ATVMLYDDGNKR	VASP; VASP; VASP;	P50552; K7ENR7;	VASP_	HUMA	Oxidation (M);Deai	1346800	993900	750320	60623	0	25628	0	0	0
ATVNTFGYIAK	SF3B1; SF3B1	O75533; H7C341	SF3B1_	HUM	Unmodified	0	862780	0	0	0	0	0	0	0
ATVQQLEGR	FABP5	Q01469	FABP5_	HUM	Acetyl (Protein N-t	0	1399500	1486400	125020	0	160960	0	0	0
ATVQQLEGRWR	FABP5	Q01469	FABP5_	HUM	Acetyl (Protein N-t	0	0	278260	162980	180100	122810	0	0	0
ATVSAPFGK	PLEC; PLEC	Q15149; H0YDN1	PLEC_	HUMA	Unmodified	1954700	1480700	1995300	145030	79112	218860	0	0	0
ATVSAPFGKFQGK	PLEC; PLEC	Q15149; H0YDN1	PLEC_	HUMA	Unmodified	1618400	0	1071500	188320	257800	179210	0	0	0
ATVTAMIAR	STAU1; STAU1	O95793; Q5JW30	STAU1_	HUM	Oxidation (M)	735580	2854000	2095900	0	0	0	0	0	0
ATVTATTKVPEIRDVTR	RUVBL2; RUVBL2;	Q9Y230; X6R2L4	RUVB2_	HUM	Acetyl (Protein N-t	10751000	0	8704900	368850	401130	326570	167650	127940	144440
ATVTATTKVPEIRDVTRIER	RUVBL2; RUVBL2;	Q9Y230; X6R2L4	RUVB2_	HUM	Acetyl (Protein N-t	1670000	1495500	1449800	63752	33123	0	288700	0	67648
ATVTPSPVK	NUCKS1	Q9H1E3	NUCKS_	HUM	Unmodified	12128000	10051000	10528000	1791800	1631000	1564600	20960	94616	25433
ATVTPSPVKGK	NUCKS1	Q9H1E3	NUCKS_	HUM	Unmodified	747580	889920	907030	383540	358130	323740	46170	0	44859
ATVVVEATEPEPSGSIANPAASTSPSLSHR	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_	HUM	Acetyl (Protein N-t	1507100	1641900	0	0	0	0	0	0	0
ATVVVQGER	APOH	P02749	APOH_	HUM	Unmodified	1144800	1389200	1273000	113840	143400	128680	0	0	0
ATWSGAVLAGR	A1BG	P04217	A1BG_	HUM	Unmodified	2237600	1872800	1552100	0	0	0	0	0	0
ATYLEFKQQNEERDGVR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_	HUM	Acetyl (Protein N-t	1783400	0	2402600	0	0	0	0	0	0
ATYLEFIQQNEERDGVR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_	HUM	Acetyl (Protein N-t	2326100	2854100	2502000	0	0	0	0	0	0
ATYLPQLTTEK	ACADSB	P45954	ACDSB_	HUM	Unmodified	1196800	1673500	1325200	173480	158000	166070	0	0	0
AVAAAAAAAVTPAAIAAATTTLAQEEPVAAPEPK	SRRM1; SRRM1	Q8IYB3; A9Z1X7	SRRM1_	HUM	Unmodified	184990	0	0	0	0	0	0	0	0
AVAALLTIPEAEK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_	HUM	Unmodified	2532900	2563900	2187000	32417	65957	36285	0	0	0
AVAASKER	H1-3; H1-4; H1-5; H1	P16402; P10412;	H13_	HUMA	Unmodified	1256400	1406800	3049600	0	0	21751	0	0	0
AVAEAVETGEEDVIMEALR	RIC8A; RIC8A; RIC8	Q9NPQ8; E9PI04;	RIC8A_	HUM/	Oxidation (M)	2216800	2811300	934510	0	0	0	0	0	0
AVAEGKADQFLVGTSR	EML4; EML4	Q9HC35; B5MBZ	EMAL4_	HUM	Unmodified	989160	804540	1472600	0	190870	185080	0	0	0
AVAENQPFLIEAMTYR	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA_	HUM/	Oxidation (M)	3745300	2804100	5164300	169880	128020	144700	12398	26317	0
AVAEQIPLLVQGVR	TLN1	Q9Y490	TLN1_	HUMA	Unmodified	7818300	9356500	7154200	63042	21025	21434	36889	19791	0
AVAFAAASR	MACO1	Q8N5G2	MACOI_	HUM	Unmodified	1253100	403550	520420	21102	26359	0	0	0	0
AVAFQNPQTHVIENLHAAAYR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_	HUMA	Unmodified	21669000	12888000	15277000	55372	0	0	26493	0	0

AVAFQNPQTHVIENLHAAAYR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Deamidation (N)	0	948810	938280	0	0	0	0	0	0
AVAFSPVTELKK	PFKL	P17858	PFKAL_HUM	Unmodified	1389500	1054600	1073500	0	33658	29118	0	0	0
AVAGDASESALLK	ATP1A1	P05023	AT1A1_HUM	Unmodified	7914700	7901200	9258700	1109300	1056800	1971200	0	0	0
AVAGNISDPGLQK	VCL	P18206	VINC_HUMA	Unmodified	4763800	3917700	4111600	0	0	0	0	0	0
AVAGWEEVLR	DHX30; DHX30	Q7L2E3; H7BXY	DHX30_HUM	Unmodified	1109800	1363000	0	10226	0	11086	0	0	0
AVAHHTTAAFIR	PSMC4	P43686	PRS6B_HUM	Unmodified	1241500	652760	738700	0	0	0	0	0	0
AVAIDLPGLGHSK	ABHD14B; ABHD14	Q96IU4; B4DQJ4	ABHEB_HUM	Unmodified	1380800	1554800	1975400	0	0	38795	0	0	12681
AVALSSSVMCPDAR	GRN; GRN; GRN	P28799; K7EMR1	GRN_HUMA	Oxidation (M)	0	0	0	134500	134370	134980	33887	0	33912
AVALSSSVMCPDARSR	GRN; GRN; GRN	P28799; K7EMR1	GRN_HUMA	Oxidation (M);2 M	2692500	3112900	1628600	0	0	48838	0	0	0
AVALYFIDK	TOP1; TOP1MT; TOI	P11387; Q969P6;	TOP1_HUMA	Unmodified	905870	775360	935680	0	0	0	0	0	0
AVALYFIDKLALR	TOP1; TOP1MT; TOI	P11387; Q969P6;	TOP1_HUMA	Unmodified	155110	0	47794	0	0	0	0	0	0
AVANETGAFFFLINGPEIMSK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);Deai	1104600	339900	772360	0	0	0	0	0	0
AVANETGAFFFLINGPEIMSK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	862640	164820	490490	0	0	0	0	0	0
AVANETGAFFFLINGPEIMSK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);2 De	468610	63217	119250	0	0	0	0	0	0
AVANQTSATFLR	PSMC1	P62191	PRS4_HUMA	Unmodified	1008900	1265800	0	0	0	0	0	0	0
AVANQTSATFLR	PSMC1	P62191	PRS4_HUMA	Deamidation (N)	884530	1392900	823230	0	0	0	0	0	0
AVAPSPSGAIGGLLEQFAR	MTMR14; MTMR14	Q8NCE2; C9JSR1	MTMRE_HU	Unmodified	765600	542810	898910	0	0	0	0	0	0
AVAQALEVIPR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Unmodified	21890000	16509000	18030000	389000	346760	315650	40008	32505	28441
AVAQPLGR	DDX28	Q9NUL7	DDX28_HUM	Unmodified	789920	417440	546070	0	0	0	0	0	0
AVAREESGKPGAHVTVK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	0	44026000	33470000	610170	0	0	109270	0	112520
AVAREESGKPGAHVTVKK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	3011600	2588300	1302800	61591	0	78841	0	0	0
AVATAVEQIYPFVFESR	TBPL1	P62380	TBPL1_HUM	Unmodified	381880	301840	281810	0	0	0	0	0	0
AVATGKMDENQFVAVTSTNAAK	CRMP1; DPYSL3; DI	Q14194; Q14195;	DPYL1_HUM	Oxidation (M)	1173100	1446000	874740	0	0	0	0	0	0
AVAVDLGNR	PNPT1; PNPT1; PNP	Q8TCS8; F8WBI3	PNPT1_HUM	Unmodified	2950300	1567900	2947300	0	47924	0	0	0	0
AVAVGRPSNEELR	SEPTIN11; SEPTIN1	Q9NVA2; D6RER	SEP11_HUM	Acetyl (Protein N-t	9036200	9026900	12927000	806620	595600	857610	0	0	0
AVAVVDPIQSVK	PSMD14	O00487	PSDE_HUMA	Unmodified	4432700	4615700	4465200	70940	49864	62313	0	0	0
AVCMLSNTTAIAEAWAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M)	17052000	11852000	16688000	25714	25658	13996	0	0	0
AVCMLSNTTAIAEAWAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M);Deai	8467200	735640	8149000	0	0	0	0	0	0
AVCMLSNTTAVAEAWAR	TUBA1C; TUBA1C;	Q9BQE3; A0A1W	TBA1C_HUM	Oxidation (M)	1266900	1509000	1251800	0	0	0	0	0	0
AVDDGVNTFK	CCT8	P50990	TCPQ_HUMA	Unmodified	2892000	2695000	2239300	73021	122130	123070	0	0	0
AVDDGVNTFKVLTR	CCT8	P50990	TCPQ_HUMA	Unmodified	0	0	0	0	99447	77103	0	0	0
AVDEAADALLK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	9151400	0	5104500	47457	0	0	0	0	0
AVDEMNGKELNGKQIYVGR	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Oxidation (M);2 De	1130700	2849100	2405600	0	32610	32717	0	0	0
AVDFAER	RPL8; RPL8; RPL8;	P62917; E9PKU4;	RL8_HUMAN	Unmodified	10146000	9774500	7802800	0	67929	127950	0	0	0
AVDFQEAQSYADDNSLLFMETSAK	RAB5A	P20339	RAB5A_HUM	Oxidation (M)	4609400	780440	5291600	0	0	0	0	0	0
AVDHINSTIAPALISSGLSVVEQEK	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AVDIPHMDIEALK	RPL10A	P62906	RL10A_HUM	Oxidation (M)	2119000	1767500	1647100	33480	35715	49948	0	0	0
AVDITTPK	PSIP1	O75475	PSIP1_HUMA	Unmodified	11993000	11901000	12159000	479020	459720	543830	0	0	0
AVDLVEEESGAPGEEQRRWEEAR	DHX16; DHX16; DH	O60231; A0A140	DHX16_HUM	Unmodified	2449000	2640500	2296800	70331	48994	68955	0	0	0
AVDNQVYVATASPAR	NIT2	Q9NQR4	NIT2_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
AVDPEDDFQR	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2_HUMA	Unmodified	1141100	1230400	1290400	0	0	0	0	0	0
AVDPEDDFQREMSFYR	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2_HUMA	Oxidation (M)	2912000	0	2018200	0	0	0	0	0	0
AVDPTSGQLYGLAR	NUP210	Q8TEM1	PO210_HUM	Unmodified	2626400	0	1617900	0	0	0	0	0	0
AVDSAEAR	IFT27; IFT27; IFT27	Q9BW83; H0Y6C	IFT27_HUMA	Unmodified	280100	294880	410580	0	34174	18858	0	0	0
AVDSLVPIGR	ATP5F1A; ATP5F1A	P25705; K7ERX7;	ATPA_HUMA	Unmodified	76865000	71987000	81475000	3035600	3362700	3725400	213620	225760	140030
AVDSLVPIGRGQR	ATP5F1A; ATP5F1A	P25705; K7EK77;	ATPA_HUMA	Unmodified	0	0	82003	522950	483340	392020	32219	0	38129
AVDSQILPK	RPL6	Q02878	RL6_HUMAN	Unmodified	20513000	15420000	17229000	513650	584420	786710	0	0	0
AVDTLAYLSDGDAR	WRNIP1	Q96S55	WRIP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AVDTWSWGER	LGALS3BP	Q08380	LG3BP_HUM	Unmodified	1414000	0	762310	0	0	0	0	0	0
AVEAAQLAEDLKVQLEHVQTR	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B_HUM	Unmodified	2704200	1297300	2703100	0	0	0	0	0	0
AVEALKEAGSIVR	DLG2; DLG1; DLG4;	Q15700; Q12959;	DLG2_HUMA	Unmodified	636490	513030	738380	0	0	0	0	0	0
AVEDAIAR	ZC3H18; ZC3H18; ZI	Q86VM9; H3BRH	ZCH18_HUM	Unmodified	1106000	1851700	1617100	52988	26493	34597	0	0	0
AVEDDFVEMR	MCMBP	Q9BTE3	MCMBP_HU	Oxidation (M)	565820	640120	487560	0	0	0	0	0	0
AVEDEATK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	206240	242680	0	21426	0	0	0	0	0
AVEDKNIGPLVVK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	2380500	2652200	2551100	131630	117100	187160	0	0	24278
AVEEEDKMTPEQLAIK	PSMD14	O00487	PSDE_HUMA	Oxidation (M)	1324300	1135700	1266700	95778	94438	0	0	0	0
AVEEKIEWLESHQDADIEDFKAK	HSPA5; HSPA5; HSP	P11021; A0A7P0T	BIP_HUMAN	Unmodified	5358700	3596200	4071800	0	0	0	0	0	0
AVEFLASNESR	LEMD2; LEMD2	Q8NC56; H0Y9B7	LEMD2_HUM	Unmodified	1106400	1201600	1327700	110950	83204	112580	0	0	0
AVEFQEAQAYADDNSLLFMETSAK	RAB5C; RAB5C	P51148; K7ENY4	RAB5C_HUM	Oxidation (M)	3139200	3099600	0	0	0	0	0	0	0
AVEHINK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Unmodified	21402000	10001000	23151000	94016	101690	89780	0	0	0
AVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Unmodified	26302000	30012000	26118000	171010	170560	124350	0	0	0
AVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Methyl (KR)	7318300	7031500	8393300	0	0	0	0	0	0
AVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Deamidation (N)	39716000	32883000	38283000	62509	540420	51884	0	0	0
AVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Methyl (KR);Deam	1958100	1674100	1813800	0	0	0	0	0	0
AVEHINKTIAPALVSKK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Unmodified	1123700	1328900	909770	0	0	0	0	0	0
AVEHINKTIAPALVSKK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUMA	Methyl (KR)	1249100	1445500	0	0	0	0	0	0	0
AVEHPSVPESPEFVR	STARD7	Q9NQZ5	STAR7_HUM	Unmodified	1602200	0	470210	46984	203980	192980	0	0	0
AVEIVTSTSAAK	ZNF638	Q14966	ZN638_HUM	Unmodified	612240	873170	748690	0	0	0	0	0	0
AVELAANTK	TKT; TKT	P29401; A0A0B4J	TKT_HUMAN	Deamidation (N)	6489600	4033900	5458100	653840	682090	545670	0	0	14485
AVELAANTK	TKT; TKT	P29401; A0A0B4J	TKT_HUMAN	Deamidation (N)	3132800	4300100	4519400	60183	103590	58017	0	0	0
AVEMAAQR	PGP	A6NDG6	PGP_HUMAN	Oxidation (M)	3440700	2957500	1545000	33309	34256	30601	0	0	0
AVENSSTAIGIR	PSMA3	P25788	PSA3_HUMA	Unmodified	1769800	1778700	1982900	122220	115710	77355	0	0	0
AVENSSTAIGIR	PSMA3	P25788	PSA3_HUMA	Deamidation (N)	1276400	3792600	5503600	63980	59502	51798	0	0	0
AVENYLIQMAR	PDCD5; PDCD5	O14737; K7EQA1	PDCD5_HUM	Oxidation (M)	1807000	2005700	1986400	0	0	24990	0	0	0
AVERGQLEQITGK	HP1BP3; HP1BP3	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	6158000	6464900	4266600	147540	115500	104700	58763	18998	0
AVESRTTDLLTDWEK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	467290	439420	254120	0	0	0	0	0	0
AVETPPLSSVNLLEGLSR	GAPVD1; GAPVD1;	Q14C86; C9IZ08;	GAPD1_HUM	Unmodified	407240	0	504240	0	0	0	0	0	0
AVEVAWETLQEEFSR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	595850	412920	588850	0	0	0	0	0	0
AVEVQGPSLESGDHGK	AHNAK	Q09666	AHNK_HUM	Unmodified	728870	0	0	0	468950	413350	0	0	30755
AVEYLLMGIPGDR	RAD23B	P54727	RD23B_HUM	Oxidation (M)	5201500	5899900	6601000	0	0	0	0	0	0
AVFDETYPDPVR	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC_HUMA	Unmodified	9519700	6068500	7302500	95090	136640	140970	0	0	0
AVFDNLIQLEHLNIVK	NRBP1; NRBP1; NR	Q9UHY1; F8W6G	NRBP_HUMA	Unmodified	169290	103720	223720	0	0	0	0	0	0
AVFPSIVGR	POTEE; POTEI; POT	Q6S8J3; P0CG38;	POTEE_HUM	Unmodified	82737000	92682000	90531000	3223200	2938900	3592300	2191500	4782000	5045000
AVFQANQENLPILK	ATP1A1	P05023	AT1A1_HUM	Unmodified	4635800	4457700	4382300	218490	199570	99729	0	0	0
AVFQANQENLPILKR	ATP1A1	P05023	AT1A1_HUM	Unmodified	5796600	6002200	4212600	488880	485520	370280	65766	0	0
AVFQESIR	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AVFQFYQR	DUSP23	Q9BVJ7	DUS23_HUM	Unmodified	0	0	0	0	0	0	0	0	0
AVFVDLEPTVIDEVR	TUBA1A; TUBA1C;	Q71U36; Q9BQE3	TBA1A_HUM	Unmodified	557990000	210970000	352300000	645260	418110	426360	782890	394570	765030
AVFVDLEPTVIDEVRTGTYR	TUBA1A; TUBA1C;	Q71U36; Q9BQE3	TBA1A_HUM	Unmodified	52141000	22471000	38673000	56764	24737	0	37251	0	0
AVFVPDIYSR	UFL1	O94874	UFL1_HUMA	Unmodified	0	1431300	1464700	141450	0	157240	24100	0	0
AVFVSEGK	CORO1A; CORO1A;	P31146; H3BRY3	COR1A_HUM	Unmodified	2701400	3918100	4799300	114890	41523	44976	0	0	0
AVGAQASVGSR	BABAM1; BABAM1	Q9NWV8; M0QX	BABA1_HUM	Unmodified	1934200	1481900	0	0	43143	89969	53434	32556	65018
AVGASFPLYEPAK	MKI67	P46013	KI67_HUMA	Unmodified	2071700	2071500	0	0	0	0	0	0	0
AVGFSSGTENPHGVK	P3H1	Q32P28	P3H1_HUMA	Unmodified	1522000	1654000	1127100	225210	218120	143420	0	0	0
AVGGDHAVPLDPGQLETVLEK	SNX11; SNX11	Q9Y5W9; B4DJI7	SNX11_HUM	Unmodified	631360	664600	724300	0	0	0	27164	0	0
AVGHPFVIQLGR	XPO1; XPO1; XPO1;	O14980; A0A7I2Y	XPO1_HUMA	Unmodified	2812900	3746000	3240100	0	0	29031	0	0	0
AVGIVGIER	VPS36; VPS36	Q86VN1; A0A3B	VPS36_HUM	Unmodified	611590	2185600	610270	19735	0	0	0	0	0
AVGKDNFTLIPEGTNGTEER	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Deamidation (N)	7146500	3110000	5270500	291170	241850	153930	0	0	28594
AVGKDNFTLIPEGTNGTEER	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	2 Deamidation (N)	5406200	3861600	4311200	69726	49917	89854	17265	0	0
AVGKDNFTLIPEGVNGIEER	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	Deamidation (N)	3938800	4075400	3357600	0	0	0	0	0	0
AVGKDNFTLIPEGVNGIEER	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	2 Deamidation (N)	3481900	864550	3919000	0	0	0	0	0	0
AVGKSLAMEMVLTGDRISAQDAK	ECHS1	P30084	ECHM_HUM	2 Oxidation (M)	0	0	0	645810	521360	551560	59360	143540	0
AVGKVIPELNGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Deamidation (N)	745080	509460	541000	0	0	0	0	0	0
AVGKVIPELNGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Methyl (KR);Deam	0	1778000	1681900	0	0	0	0	0	0
AVGKVIPELNGKLTGMAFR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Deai	1948200	8519500	5965800	0	0	0	0	0	0
AVGKVIPELNGKLTGMAFR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Met	8827900	5636200	9980100	0	0	0	0	0	0
AVGMHSFLVVGPQALDPVVR	HDHD3	Q9BSH5	HDHD3_HUM	Oxidation (M)	4020900	4956800	4011800	0	14101	0	0	0	0
AVGPASILK	ZRANB2	O95218	ZRAB2_HUM	Unmodified	4239000	3109300	3653100	190760	160510	168490	0	0	0
AVGPSGGGGETPR	TMEM245	Q9H330	TM245_HUM	Unmodified	4970900	4073800	2701000	902370	620280	818070	31939	0	24386
AVGPSSTQLYMVR	CYFIP1; CYFIP1; CY	Q7L576; A0A0G2	CYFP1_HUM	Oxidation (M)	650020	0	740920	0	0	0	0	0	0
AVGQDTLLR	WRNIP1	Q96S55	WRIP1_HUM	Unmodified	3429600	3343000	4667100	0	213370	220730	0	0	0
AVGRLEAVSHTSDMHR	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1_HUMA	Oxidation (M)	7473100	7415800	10925000	73895	0	92082	0	0	0
AVGRLEAVSHTSDMHRGYADSPSK	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1_HUMA	Oxidation (M)	5081100	6236800	4339500	328600	123850	0	0	0	0
AVGSISSTAFDIR	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU_HUMAN	Unmodified	1002700	851100	595290	0	25159	0	0	0	0
AVGTPGGGGGGAVPGISAMSR	PRRC2A	P48634	PRC2A_HUM	Oxidation (M)	3089500	3640700	4016900	0	0	0	0	0	0
AVGTQTLSGAGLLK	SNX1; SNX1	Q13596; H0YK42	SNX1_HUMA	Unmodified	2865200	3107500	2386300	0	46482	0	0	0	0
AVGWNELEGR	PCBD1	P61457	PHS_HUMAN	Unmodified	3842500	3807200	5113400	0	0	0	0	0	0
AVGWNELEGR	PCBD1	P61457	PHS_HUMAN	Deamidation (N)	1454900	1487800	1471700	0	0	0	0	0	0
AVGWNELEGRDAIFK	PCBD1	P61457	PHS_HUMAN	Deamidation (N)	5303200	5380800	5259900	0	0	0	0	0	0
AVGWNELEGRDAIFK	PCBD1	P61457	PHS_HUMAN	Unmodified	4306700	4686600	685770	0	0	0	0	0	0
AVHAHVNLGYTK	NIPSNAP3A	Q9UFN0	NPS3A_HUM	Unmodified	1312400	954730	1069400	0	0	0	0	0	0
AVHGVEETSSEVKPPNE	C5orf24	Q7Z6I8	CE024_HUM	Unmodified	1594600	0	0	0	0	0	0	0	0
AVHNSVAAQLTGVAGH	ZCCHC3	Q9NUD5	ZCHC3_HUM	Deamidation (N)	390220	538600	535610	0	21248	20333	0	0	0
AVHVESVQPLSLENLALR	RANGRF	Q9HD47	MOG1_HUM	Unmodified	2795900	2170800	2368300	0	0	0	0	0	0
AVIDLNNR	U2AF1; U2AF1L5	Q01081; P0DN76	U2AF1_HUM	Deamidation (N)	1198100	1047800	4132100	249790	211790	221950	0	0	0
AVIEHNLLSASK	COPS4; COPS4; COP	Q9BT78; D6RAX	CSN4_HUMA	Unmodified	780670	947720	1006900	0	0	0	0	0	0
AVIEKWVNGEYSEEPAPTPVLGR	CASZ1	Q86V15	CASZ1_HUM	Deamidation (N)	905860	681890	716100	0	0	0	0	0	0
AVIETADR	PPID	Q08752	PPID_HUMA	Unmodified	1424600	1536100	1349600	22879	26676	26108	0	0	0
AVIGIGIEEEDRK	PRPF6	O94906	PRP6_HUMA	Unmodified	0	0	0	88856	108180	116770	0	0	0
AVIGMTAGATGAFVGTPAEVALIR	SLC25A11; SLC25A1	O02978; I3L1P8	M2OM_HUM	Oxidation (M)	3905300	2229300	3158700	0	0	0	0	0	0
AVIHYRDDETMYVESK	ARPC2	O15144	ARPC2_HUM	Oxidation (M)	3032900	2178500	1600900	96565	44260	106210	0	0	0
AVILGPPGSGK	AK4	P27144	KAD4_HUMA	Unmodified	974690	1968200	2017400	0	13566	92389	0	0	0

AVIMGAPGSGK	AK3	Q9UIJ7	KAD3_HUMA	Oxidation (M)	998060	986630	1143600	0	0	0	0	0
AVINSAGYK	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	877640	683850	526200	0	0	16974	0	0
AVIQGLETLR	KLC2; KLC2; KLC2;	Q9H0B6; E9PI24;	KLC2_HUMA	Unmodified	791160	1386100	1180200	22366	23172	20047	0	0
AVIQGLETLRGEHR	KLC2; KLC2; KLC2;	Q9H0B6; E9PI24;	KLC2_HUMA	Unmodified	1768000	1791600	716460	0	0	0	0	0
AVIQVSQIVAR	DCXR; DCXR; DCXI	Q7Z4W1; J3KSZ5	DCXR_HUM	Unmodified	887030	1091300	910160	0	0	0	0	0
AVITSLLDQIPEMFADTR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Oxidation (M)	1086900	505590	886800	0	0	0	0	0
AVIVPGNGGGDVTTHGWYGWVK	RBBP9	O75884	RBBP9_HUM	Deamidation (N)	359060	0	421790	0	0	0	0	0
AVIYNPATQADWTAK	MYH10; MYH10	P35580; E7ERA5	MYH10_HUM	Unmodified	1618700	1269300	1462900	53274	63136	57780	0	0
AVKNQIALWDQLLEGR	AATF; AATF; AATF;	Q9NY61; A0A7P(	AATF_HUMA	Deamidation (N)	139710	133200	110650	0	0	0	0	0
AVLAESYER	ACO1	P21399	ACOC_HUM	Unmodified	1637100	1422600	0	0	0	0	0	0
AVLCPPPVK	RAC3; RAC1	P60763; P63000	RAC3_HUMA	Unmodified	549440	437510	423160	0	0	0	0	0
AVLDALLASK	MAP1S; MAP1S	Q66K74; M0R1M	MAP1S_HUM	Unmodified	2449200	1483500	2221500	7938	0	0	0	0
AVLDALLEGK	MAP1B; MAP1A; M	P46821; P78559;	MAP1B_HUM	Unmodified	3512600	4758900	4513000	87103	71354	54162	0	0
AVLDVFEEGTEASAATAVK	SERPINA3; SERPIN/	P01011; G3V3A0	AACT_HUM/	Unmodified	5980600	5112300	6205700	13580	14534	0	0	0
AVLEEGTDVVIK	IARS2	Q9NSE4	SYIM_HUMA	Unmodified	1018500	0	0	0	0	0	0	0
AVLEEKEKDLANTGK	KTN1; KTN1	Q86UP2; G3V4Y7	KTN1_HUMA	Unmodified	491150	381270	344260	25425	0	0	0	0
AVLEPIQSTSLIGTLTR	PPP1R21	Q6ZMI0	PPR21_HUM	Unmodified	1127200	596040	989500	0	0	0	0	0
AVLFCLSEDKK	CFL1; CFL1; CFL1;	P23528; G3V1A4;	COF1_HUMA	Unmodified	1194600	1243900	1102400	0	32187	28442	0	0
AVLFCLSEDKK	CFL1; CFL1; CFL1;	P23528; G3V1A4;	COF1_HUMA	Methyl (KR)	1879300	1451300	2206300	0	0	0	0	0
AVLGDDEITREPR	DLG1; DLG1; DLG1;	Q12959; H7C166;	DLG1_HUMA	Unmodified	2698300	2600900	2677100	341230	262430	337390	0	0
AVLGEVKLCEK	EEF1G	P26641	EF1G_HUMA	Unmodified	1492600	1779500	1531600	159640	161090	138930	0	0
AVLHPTAPLYDPEAK	RHOT2; RHOT2; RH	Q8IXI1; I3L2C6;	MIRO2_HUM	Unmodified	1061400	1225400	1428200	0	0	0	0	0
AVLIAGQPGTGK	RUVBL2; RUVBL2;	Q9Y230; M0R0Y	RUVB2_HUM	Unmodified	6917100	6470900	6113400	273330	299360	306800	0	0
AVLIDKDQSPK	HIBCH; HIBCH	Q6NVY1; B9A05	HIBCH_HUM	Unmodified	3896200	4826800	3494700	126030	54180	0	0	0
AVLIPIREVLTPESDISIAHVLAAR	FAM98C	Q17RN3	FA98C_HUM	Unmodified	0	0	311090	0	0	0	0	0
AVLLAGPPGTGK	RUVBL1; RUVBL1	Q9Y265; E7ETR0	RUVB1_HUM	Unmodified	3380500	2372600	2746300	0	45367	0	0	0
AVLLDLEPR	TUBG1; TUBG2; TU	P23258; Q9NRH3	TBG1_HUMA	Unmodified	7996500	5128700	7783600	194350	221850	245980	0	35274
AVLLGPPGAGK	AK2; AK2; AK2; AK	P54819; F8VPP1;	KAD2_HUMA	Unmodified	21041000	21686000	20372000	780460	822280	808820	126610	89144
AVLLGPPGAGKGTQAPR	AK2; AK2; AK2; AK	P54819; G3V213;	KAD2_HUMA	Unmodified	12488000	12757000	10571000	1436200	1505300	1658900	298950	225320
AVLMEKPDVVVGTPSR	DDX56; DDX56; DD	Q9NY93; H7C3E5	DDX56_HUM	Oxidation (M)	1285200	1368600	923700	0	0	0	0	0
AVLNPLCQVDYR	SEC23B; SEC23A; SI	Q15437; Q15436;	SC23B_HUM	Unmodified	767820	866770	789550	63700	62614	70036	0	0
AVLPEGQDVTSGFSR	TRMT5	Q32P41	TRM5_HUM/	Unmodified	3425200	2238200	2973100	0	57901	0	0	24603
AVLPLLDAQQPCYLLYR	TWF2; TWF2; TWF2	Q6IBS0; D6RG15	TWF2_HUMA	Unmodified	319910	200800	409200	0	0	0	0	0
AVLQALEVLPVAPPPEPR	ATAD2; ATAD2	Q6PL18; A0A0B4	ATAD2_HUM	Unmodified	3231600	3733900	2733700	0	0	0	0	0
AVLQDINRK	CHD6	Q8TD26	CHD6_HUMA	Methyl (KR)	184740000	0	0	131470	0	0	0	0
AVLQEEQANLWFSK	FTSJ3	Q8IY81	SPB1_HUMA	Unmodified	0	296220	489410	0	0	0	0	0
AVLQEFGR	DHRS7; DHRS7; DH	Q9Y394; H0YJ66;	DHRS7_HUM	Unmodified	500860	581800	985780	119540	105870	93999	0	12103
AVLSAEQLRDEEVHAGLGELLR	SERPINH1; SERPIN/	P50454; E9PK86;	SERPH_HUM	Unmodified	65849000	42426000	43733000	0	0	0	0	0
AVLSLYASGR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM/	Unmodified	278260	0	109210	88303	58109	93940	0	62634
AVLTIDEK	SERPINA2; SERPIN/	P20848; P01009;	AIATR_HUM	Unmodified	10261000	9292700	4119500	86761	139620	120780	0	0
AVLTVVKDDDHGILDQFSR	AKAP2; PALM2AK/	Q9Y2D5; C9JVY5	AKAP2_HUM	Unmodified	909710	1797400	1494300	0	0	0	0	0
AVLVDLEPGTMDSVR	TUBB4A; TUBB8; TI	P04350; Q3ZCM7	TBB4A_HUM	Oxidation (M)	328510000	311460000	285870000	55361000	53742000	53468000	2838400	2196500
AVMEIMTK	SH3GL2	Q99962	SH3G2_HUM	Oxidation (M)	4903800	3641700	3772200	0	0	0	0	0
AVMEQIPEIQK	XPO5; XPO5	Q9HAV4; H0Y3W	XPO5_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0
AVMISAIEK	SF3B3	Q15393	SF3B3_HUM	Oxidation (M)	504900	324440	296480	0	0	0	0	0
AVMISAIEKQK	SF3B3	Q15393	SF3B3_HUM	Oxidation (M)	0	435680	0	0	0	0	0	0
AVMNFVVR	PLOD3; PLOD3	O60568; H7C2S8	PLOD3_HUM	Oxidation (M)	2938400	0	0	190590	0	278500	0	0
AVMNFVVR	PLOD3; PLOD3	O60568; H7C2S8	PLOD3_HUM	Oxidation (M);Deai	0	926770	0	158440	172940	133510	0	0
AVNERVQQAVAR	PLPBP; PLPBP; PLP	O94903; E5RFZ4;	PLPHP_HUM	Deamidation (N)	1285300	0	1217200	0	0	0	0	0
AVNERVQQAVAR	PLPBP; PLPBP; PLP	O94903; E5RFZ4;	PLPHP_HUM	Unmodified	957790	790590	1185600	0	0	0	0	0
AVNPIPPTGLVR	POLR3F	Q9H1D9	RPC6_HUMA	Unmodified	1606800	771670	996050	45201	48622	41867	0	0
AVNTQALSGAGILR	SNX2	O60749	SNX2_HUMA	Deamidation (N)	733930	489480	923570	37411	0	32442	0	0
AVNTQALSGAGILR	SNX2	O60749	SNX2_HUMA	Unmodified	544570	705460	1239500	31605	19428	20801	0	0
AVNYFSK	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1_HUMA	Unmodified	7316200	7915700	5943500	221040	379300	273360	0	0
AVPEGFVIPR	NAMPT; NAMPT; N	P43490; A0A7P01	NAMPT_HUM	Unmodified	7254100	6286000	6952500	1518100	1533300	1491500	179760	180230
AVPETRPNHTIYINNLNEK	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA_HUM	Acetyl (Protein N-t	1032200	733240	739140	37484	49285	37689	0	0
AVPETRPNHTIYINNLNEK	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA_HUM	Acetyl (Protein N-t	2258200	2188700	2396500	74800	17496	0	0	0
AVPETRPNHTIYINNLNEK	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA_HUM	Acetyl (Protein N-t	583100	519080	0	0	0	0	0	0
AVPFNAPK	CCDC124	Q96CT7	CC124_HUM	Unmodified	2699100	2896500	3327000	542610	494850	604460	0	0
AVPKEDIYSGGGGGGGSR	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	3054300	2981800	3401900	209220	207030	223780	18736	18104
AVPLAGFGYGLPISR	PDK1	O15118	PDK1_HUMA	Unmodified	980040	1527600	0	0	0	0	0	0
AVPLALALISVSNPR	PSMD2; PSMD2	Q13200; H7C1H2	PSMD2_HUM	Unmodified	457250	685190	524060	0	0	0	0	9938.1
AVPLAVPLGQTEVFQALQR	THOC6	Q86W42	THOC6_HUM	Unmodified	3147900	4724300	2488600	0	0	0	0	0
AVPLIHQEGNR	AIP; AIP; AIP	O00170; E9PMH2	AIP_HUMAN	Unmodified	466210	451610	597390	0	0	0	0	0
AVPLKNNYSEDLELASLLIK	PLCG1; PLCG1; PLC	P19174; V9GY71	PLCG1_HUM	Deamidation (N)	580440	453970	456120	0	0	0	0	0
AVPPTYADLGKSAR	VDAC1; VDAC1	P21796; C9J8I7	VDAC1_HUM	Acetyl (Protein N-t	1076300	938590	0	63408	50282	58343	0	23246
AVPQMPTGMEKEEESVQPFKQGAVY	EPC1	A0A590UJ89	A0A590UJ89_	2 Oxidation (M);2 I	0	0	0	0	0	0	37514	0
AVPTDEAR	RAB11A; RAB11B; I	P62491; Q15907;	RB11A_HUM	Unmodified	11161000	238870	0	0	1854400	0	0	0
AVPTGDMEDLPCGLVLSSIGYK	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO_HUM/	Oxidation (M)	2576000	0	3069300	0	0	0	0	0
AVPVGSGLR	TRIT1; TRIT1; TRIT	Q9H3H1; B4DK8	MOD5_HUM	Unmodified	693410	1217600	1369000	0	0	0	0	0
AVPVPNMTPSGVGR	PDXDC1; PDXDC1;	Q6P996; H3BND4	PDXD1_HUM	Oxidation (M);Deai	0	0	0	0	0	0	0	0
AVPVWDVLASGYVSGAAR	EPPK1; EPPK1	P58107; A0A075	EPIPL_HUMA	Unmodified	316960	218560	185380	0	0	0	0	0
AVPVWDVLASGYVSR	EPPK1; EPPK1	P58107; A0A075	EPIPL_HUMA	Unmodified	342820	340330	303250	0	0	0	0	0
AVQADQER	LRRC59	Q96AG4	LRC59_HUM	Unmodified	555870	138510	157460	23394	585570	51930	0	0
AVQALPSR	STX16; STX16; STX	O14662; F8W9Z6	STX16_HUM	Unmodified	394170	476310	352220	67141	56226	66584	9737.4	0
AVQAQGGESQQEAQR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	837610	2324500	1977300	61670	0	0	0	0
AVQDLCGWR	RCC2	Q9P258	RCC2_HUMA	Unmodified	1811600	1494100	1796200	62237	63696	60177	0	0
AVQEIMQEK	GART; GART; GART	P22102; C9JBJ1;	PUR2_HUMA	Oxidation (M)	2409700	1996300	2217100	0	0	0	0	0
AVQELWLR	ECI1; ECI1; ECI1	P42126; Q96DC0;	ECI1_HUMA	Unmodified	1406000	1112800	1016800	0	0	0	0	0
AVQFTEEK	SH3GLB2; SH3GLB1	Q9NR46; Q9Y371	SHLB2_HUM	Unmodified	2930700	2448500	2994400	0	103220	118480	0	0
AVQGGGATPVVGAVQGPVPGMPPMTQAPR	SNRPA; SNRPA; SNI	P09012; M0QZG7	SNRPA_HUM	2 Oxidation (M)	18280000	16114000	11872000	1026400	1266800	785140	69852	64537
AVQISKK	RPS3; RPS3; RPS3; F	P23396; E9PJH4;	RS3_HUMAN	Acetyl (Protein N-t	1830700	1211200	1822700	133060	132490	0	0	0
AVQSLDKNGVDLLMK	ARPC5; ARPC5	O15511; B1ALC0	ARPC5_HUM	Oxidation (M);Deai	1121600	1183600	1518500	0	0	0	0	0
AVQTLQMELQQIMK	GFPT1; GFPT1; GFP	Q06210; A0A6B9	GFPT1_HUM	Oxidation (M)	859770	1787000	365980	0	13001	0	0	0
AVQVHQDTLRTMYFA	AGO1; AGO2; AGO1	Q9UL18; Q9UKV	AGO1_HUMA	Oxidation (M)	0	0	0	177800	469750	444060	169790	0
AVSDWIDEQEK	ILF3; ILF3; ILF3; ILF	Q12906; K7ENK6	ILF3_HUMA	Unmodified	4789300	4433600	4032700	79904	0	0	0	0
AVSEEQQPALK	ABCF1; ABCF1; ABC	Q8NE71; A0A0G2	ABCF1_HUM	Unmodified	0	0	893030	0	43422	0	0	0
AVSELELLGFIKPTK	ORC3	Q9UBD5	ORC3_HUMA	Unmodified	514750	1916700	582430	0	0	0	0	0
AVSGAIVAQR	PLEKHA1; PLEKHA	Q9HB21; Q5RGS4	PKHA1_HUM	Unmodified	1827200	1962800	2421100	15855	0	0	0	0
AVSILPLLGHGVPR	WBP11	Q9Y2W2	WBP11_HUM	Unmodified	6711100	6055000	5344900	73117	39323	26175	13051	0
AVSISTEPPTYLR	SMARCB1; SMARCI	Q12824; G5E975;	SNF5_HUMA	Unmodified	6718800	5373100	4088000	108090	95207	80856	0	0
AVSISTEPPTYLREQK	SMARCB1; SMARCI	Q12824; G5E975;	SNF5_HUMA	Unmodified	1756900	1974600	1337800	88222	0	0	0	0
AVSREDSVKPGAHLTVK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	7013600	8384500	8496500	206790	139510	217670	0	0
AVSREDSVKPGAHLTVK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Methyl (KR)	1389400	841660	1226600	0	0	0	0	0
AVSSLATAK	DCLK1; DCLK1	O15075; Q5VZY9	DCLK1_HUM	Unmodified	1467600	0	0	40757	36318	34003	0	0
AVSSNVGAYMQPGAR	TFIP11	Q9UBB9	TFP11_HUM/	Oxidation (M)	225760	254270	213050	0	0	0	0	0
AVSTGVKVPR	UBE2V2; UBE2V2	Q15819; H0YBX6	UB2V2_HUM	Acetyl (Protein N-t	19783000	21174000	19169000	2475300	2522000	2149300	845130	791880
AVSTGVKVPR	UBE2V2; UBE2V2	Q15819; H0YBX6	UB2V2_HUM	Acetyl (Protein N-t	1559600	1328000	860550	110850	119700	102850	39401	35856
AVSVTPIRDTK	MBNL1; MBNL1; MI	Q9NR56; A0A0A(	MBNL1_HUM	Acetyl (Protein N-t	2795000	2668800	2616900	790810	0	743620	134820	91324
AVTCIAFSK	EML1; EML1; EML1	O00423; F8W717;	EMAL1_HUM	Unmodified	0	0	0	0	0	0	0	0
AVTELNEPLSNEDR	YWHAH	Q04917	1433F_HUM	Unmodified	0	0	0	0	0	0	0	0
AVTELNEPLSNEDRNLLSVAYK	YWHAH	Q04917	1433F_HUM	Deamidation (N)	1984600	1726400	1478100	0	0	0	0	0
AVTELNEPLSNEDRNLLSVAYK	YWHAH	Q04917	1433F_HUM	Unmodified	5091100	3405200	3502100	0	0	0	0	0
AVTELNEPLSNEDRNLLSVAYKNVVGAR	YWHAH	Q04917	1433F_HUM	Unmodified	1657300	3162700	2426400	0	0	0	0	0
AVTEMNGR	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	Oxidation (M);Deai	3419000	4262500	4508500	80745	0	169370	0	0
AVTEMNGRIVATKPLYVALAQR	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Oxidation (M);Deai	4016100	994020	0	0	0	0	0	0
AVTEQGAELSNEER	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUM	Unmodified	19211000	15997000	18283000	119790	414110	0	0	0
AVTEQGAELSNEER	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUM	Deamidation (N)	2711800	2325000	2340000	20503	31844	0	0	0
AVTEQGAELSNEERNLLSVAYK	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUM	Deamidation (N)	5596100	5420100	4830100	0	0	0	0	0
AVTEQGAELSNEERNLLSVAYK	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUM	Unmodified	9069500	5637800	9680800	0	0	0	0	0
AVTEQGAELSNEERNLLSVAYK	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0
AVTEQGHELSNEER	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Unmodified	14269000	13792000	23775000	584460	411380	736330	0	0
AVTEQGHELSNEER	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Deamidation (N)	3164900	4097000	3992700	145590	141290	95710	0	0
AVTEQGHELSNEERNLLSVAYK	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Unmodified	13327000	17461000	12759000	0	0	0	0	0
AVTEQGHELSNEERNLLSVAYK	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Deamidation (N)	5409200	3565700	3212600	0	0	0	0	0
AVTEQGHELSNEERNLLSVAYKNVVGAR	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Unmodified	3126600	1651300	2542900	0	0	0	0	0
AVTEVLAR	SH3GL1; SH3GL1; S	Q99961; M0R0J3;	SH3G1_HUM	Unmodified	3093800	2461900	2208300	50643	56308	88472	0	0
AVTFSPDLGPVPHEGLGEYNR	CAMSAP3	Q9P1Y5	CAMP3_HUM	Unmodified	5520500	4419800	4613300	0	0	17855	0	0
AVTGYKPYTGQQISLFQAMQK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	2825500	2417700	1727800	0	59137	34086	0	0
AVTGYNDPETGNIISLFQAMNK	DSP	P15924	DESP_HUMA	Oxidation (M)	6184600	4363400	5102400	0	0	0	0	0
AVTGYNDPETGNIISLFQAMNKELIEK	DSP	P15924	DESP_HUMA	Oxidation (M)	0	0	1445100	0	0	0	0	0
AVTGYNDPETGNIISLFQAMNKELIEKGHGIR	DSP	P15924	DESP_HUMA	Oxidation (M)	0	0	2449300	0	0	0	0	0
AVTGYRDPYTEQTISLFQAMKK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	3889900	4052800	3785100	74387	52147	0	0	0
AVTHTSPEDVSFAESR	TBCD; TBCD; TBCD	Q9BTW9; I3L439	TBCD_HUM	Unmodified	1076900	644310	794220	0	0	0	0	0
AVTIFIR	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE_HUMA	Unmodified	2251300	2102300	1778500	106140	125330	85216	9889.2	8355.9
AVTITDLR	STAMBP	O95630	STABP_HUM	Unmodified	1005500	1095300	872110	128770	142960	107970	0	0
AVTKDEDEWKELEQK	CDV3	Q9UKY7	CDV3_HUMA	Unmodified	315810	397760	459780	0	0	0	0	0
AVTKDEDEWKELEQKEVDYSGLR	CDV3	Q9UKY7	CDV3_HUMA	Unmodified	1398800	2716600	1896700	0	0	0	0	0
AVTKYTSAK	H2BC11; H2BC12; H	P06899; O60814;	H2B1J_HUM	Unmodified	12048000	12081000	16461000	1956900	1908000	2082800	138870	338130
AVTKYTSAK	H2BC11; H2BC12; H	P06899; O60814;	H2B1J_HUM	Methyl (KR)	4305700	2371500	3686800	184430	17968	0	0	0
AVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Unmodified	191670000	118020000	153740000	22452000	21834000	19078000	1294600	2565000
AVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Methyl (KR)	30169000	25995000	27065000	1514200	1436100	1513600	318130	315180

AVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	2 Methyl (KR)	315980	1112800	363090	44647	55742	27357	0	0	0
AVTLDKDAYYR	SUPT16H; SUPT16H	Q9Y5B9; G3V2X(	SP16H	HUM/	Acetyl (Protein N-t	4135900	3691500	3426400	112590	116670	101640	0	0	0
AVTLDKDAYYRR	SUPT16H; SUPT16H	Q9Y5B9; G3V2X(	SP16H	HUM/	Acetyl (Protein N-t	6696500	7917000	6063100	373660	277930	253930	0	0	0
AVTLDKDAYYRR	SUPT16H; SUPT16H	Q9Y5B9; G3V2X(	SP16H	HUM/	Acetyl (Protein N-t	936220	980470	667250	0	0	0	0	0	0
AVTLECVSAGEPR	HSPG2	P98160	PGBM	HUM/	Unmodified	0	0	697540	211200	197880	213990	32170	0	33768
AVTPLRPGELLFR	SMYD3; SMYD3	Q9H7B4; B0QZ88	SMYD3	HUM	Unmodified	957870	600880	868440	27444	0	0	0	11364	0
AVTPPMPLLTPATPGGLPPAAAVAAAAATAK	PUF60; PUF60; PUF(	Q9UHX1; A0A0J(	PUF60	HUM/	Oxidation (M)	11179000	7043900	16551000	0	0	0	0	0	0
AVTPVPTKTEEVSNLK	LARP1; LARP1; LAI	Q6PKG0; H0YBW	LARP1	HUM	Unmodified	1367700	1295200	1549800	36519	30104	0	0	0	0
AVTQALNR	TLN1	Q9Y490	TLN1	HUM/	Unmodified	0	917790	0	0	0	0	0	0	0
AVTQKSSNSLVFQTLPR	POP1; POP1	Q99575; E5RK39	POP1	HUM/	Methyl (KR);Deam	25743000	31388000	34488000	34255	0	0	57080	0	0
AVTTVTQSTPVPGPSVPPPEELQVSPGPR	HCFC1; HCFC1	P51610; H7C1C4	HCFC1	HUM	Unmodified	14446000	10548000	13099000	979500	904770	597910	0	0	0
AVTVYTNYPFPGETFNR	AGL	P35573	GDE	HUM/	Unmodified	246230	235020	227550	0	0	0	0	0	0
AVTWMDNPTEVYVNDSVWVPGPIDDRCPAK	ERVK-6	Q69384	ENK6	HUM/	Oxidation (M);2 M	772990	3873700	3605600	1151700	1207900	1356500	905840	193530	0
AVVAQAVR	PRPF6	O94906	PRP6	HUM/	Unmodified	1604800	1720100	1405000	28536	0	0	0	0	0
AVVDLNGRYFGGR	RBM17	Q96I25	SPF45	HUM/	Deamidation (N)	1315000	1091500	1366300	0	0	0	0	0	0
AVVFLEPQWYR	FCGR3A; FCGR3A; I	P08637; H0Y755;	FCG3A	HUM	Unmodified	651820	424200	633530	0	0	0	14957	0	8841.3
AVVGVVAGGGR	RPL8; RPL8; RPL8; I	P62917; E9PKU4;	RL8	HUM/	Unmodified	14479000	13987000	13161000	208660	228110	309630	0	0	0
AVVGVVAGGGRIDKPILK	RPL8; RPL8; RPL8; I	P62917; E9PKU4;	RL8	HUM/	Unmodified	3201100	2620900	2617600	0	0	28444	0	0	0
AVVHGILMGVPVPFPIPEPDGCK	NPC2; NPC2; NPC2;	P61916; J3KMY5;	NPC2	HUM/	Oxidation (M)	498660	692850	474660	0	0	0	0	0	0
AVVISGAGK	ECH1; N/A; ECH1; E	Q13011; M0QYT(	ECH1	HUM/	Unmodified	9235300	11589000	9001800	304860	363650	350300	0	0	0
AVVIVDDR	SFPQ; NONO; NONC	P23246; Q15233;	SFPQ	HUM/	Unmodified	62356000	52359000	2282400	1443000	1611900	1494500	0	0	0
AVVIVDDRGR	SFPQ; NONO; NONC	P23246; Q15233;	SFPQ	HUM/	Unmodified	10718000	9297800	9175100	1075500	1173000	802360	0	0	0
AVVIVDDRGRPSGK	NONO; NONO; NON	Q15233; C9JZL7;	NONO	HUM/	Unmodified	3019400	13614000	13521000	686030	711270	796510	0	28166	0
AVVLMGKNTMMR	RPLP0; RPLP0; RPL	P05388; F8VRK7;	RLA0	HUM/	3 Oxidation (M);De	1177800	761900	1374300	0	22310	0	0	0	0
AVVMLEYVER	CUL2; CUL2; CUL2;	Q13617; Q5T2B5;	CUL2	HUM/	Oxidation (M)	0	1574200	1125000	0	0	0	0	0	0
AVVMTPVPLFSK	GAK	O14976	GAK	HUM/	Oxidation (M)	780460	0	0	127270	146360	165880	0	0	14793
AVVPGVKPQDWISAAR	EMC7; EMC7	Q9NPA0; H0YDT	EMC7	HUM/	Unmodified	3999400	2142000	3120500	68318	41845	39784	0	0	0
AVVPSYIPLVK	CPOX	P36551	HEM6	HUM/	Unmodified	986620	534270	1620600	11789	50830	21511	0	0	0
AVVQVFEGTSGIDAK	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2	HUM	Unmodified	2586200	2438800	2301300	0	98246	64287	0	0	0
AVVTGKMDENQFVAVTSTNAAK	DPYSL2; DPYSL2	Q16555; A0A1C7(	DPYL2	HUM	Oxidation (M)	1626400	1226900	1447700	0	0	0	0	0	0
AVVVCPKDEDYKQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	8861500	6899600	12187000	499010	549480	193710	0	21179	0
AVVVGFDPHFSYMK	PGP	A6NDG6	PGP	HUM/	Oxidation (M)	1891200	1135700	1880600	0	0	0	0	0	0
AVVVNAAQLASYSQSK	SLC25A11; SLC25A1	Q02978; I3L1P8	M2OM	HUM	Unmodified	1822500	224060	1397800	82872	78615	57622	0	0	0
AVVVTDGER	ME3; ME2; ME3; ME	Q16798; P23368;	MAON	HUM	Unmodified	2122400	2370000	1248900	0	0	0	0	0	0
AVVVVDDR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1	HUM	Unmodified	2675000	1997900	2579200	0	195280	309260	0	0	0
AVVVVDDRGR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1	HUM	Unmodified	1076800	1044800	964950	101830	102880	113380	0	0	0
AVVYSNTIQSIMAIVK	GNAI2	P04899	GNAI2	HUM/	Oxidation (M)	1718900	777850	0	0	0	0	0	0	0
AVWLPAMK	AP1B1	Q10567	AP1B1	HUM/	Oxidation (M)	707450	659000	0	0	0	0	0	0	0
AVWLPAVK	AP2B1; AP2B1	P63010; A0A0B73	AP2B1	HUM	Unmodified	2755500	2633600	2947800	79421	0	70656	0	17353	0
AVYEAVLR	PEPD; PEPD; PEPD	P12955; A0A494(	PEPD	HUM	Unmodified	7684400	7996500	6477900	323820	323500	289490	0	10868	10629
AVYEDRPPGSVVPTSAAEASR	WDR13	Q9H1Z4	WDR13	HUM	Unmodified	1241200	1901700	2357600	864800	310470	740360	0	119830	0
AVYMMPTEGDDSSKSVPLALQR	USP7; USP7; USP7; I	Q93009; A0A669I	UBP7	HUM/	2 Oxidation (M)	0	1027800	886740	0	0	0	0	0	0
AVYTQDCPLAAAK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	1305000	740880	844430	0	0	0	0	0	0
AWAGIDLK	SPINT1; SPINT1; SPI	O43278; H3BTQ8	SPIT1	HUM	Unmodified	888610	870280	843120	23259	13698	16732	0	0	0
AWDIAIATMK	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4	HUM/	Oxidation (M)	1178700	1000000	1008700	0	0	0	0	0	0
AWDIGVATMK	FKBP5	Q13451	FKBP5	HUM/	Oxidation (M)	947220	1042300	1073600	0	0	0	0	0	0
AWEEYYK	FUBP1; KHSRP; KH	Q96AE4; Q92945;	FUBP1	HUM	Unmodified	2099200	1811500	3309700	55191	0	0	0	0	0
AWEEYYKK	FUBP1; KHSRP; KH	Q96AE4; Q92945;	FUBP1	HUM	Unmodified	3367500	1510400	2031900	0	0	0	0	0	0
AWEHIKELAADVLRAERE	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUM/	Unmodified	1609400	1038700	1280500	0	0	0	0	0	0
AWGILTFK	MRPS34; MRPS34	P82930; C9JJ19	RT34	HUM/	Unmodified	1365000	1055700	1846900	0	0	0	0	0	0
AWGPGLEGGVVGK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM/	Unmodified	9905800	9737000	10192000	1240100	1191500	911440	2420700	2262800	1998600
AWGPGLHGGIVGR	FLNB; FLNB	O75369; E7EN95	FLNB	HUM/	Unmodified	3321800	2934700	2396400	466250	397890	391040	151170	21768	156320
AWITAPVALR	DSG2; DSG2	Q14126; J3KSI6	DSG2	HUM/	Unmodified	1316000	1029400	948880	19429	31160	0	0	0	0
AWNEVMLQNDSRK	ARMC3; ARMC3	Q5W041; B4DXS:	ARMC3	HUM/	Oxidation (M);Meth	0	426880	0	0	0	0	0	0	0
AWQGAMDAGAASR	SAFB2	Q14151	SAFB2	HUM/	Oxidation (M)	2362300	2653900	2029400	94429	0	0	0	0	0
AWQKWRIRMACLAAK	MYO19	Q96H55	MYO19	HUM/	Methyl (KR)	0	654110	0	0	0	0	0	0	0
AWRDPDEPVLLEEPVVLALAEK	AKR1A1	P14550	AK1A1	HUM/	Unmodified	1998200	2033900	2116700	0	0	0	0	0	0
AWRDPDEPVLLEEPVVLALAEKYGR	AKR1A1	P14550	AK1A1	HUM/	Unmodified	315810	172850	0	0	0	0	0	0	0
AWTVEQLR	FKBP3; FKBP3	Q00688; G3V5F2	FKBP3	HUM/	Unmodified	12723000	13850000	12583000	87178	121440	106270	0	0	0
AWTVEQLRSEQLPK	FKBP3; FKBP3	Q00688; G3V5F2	FKBP3	HUM/	Unmodified	11853000	10434000	9019300	14837	20455	17489	0	0	0
AWTVLTEYYK	PAPSS1	O43252	PAPS1	HUM/	Unmodified	1824500	1524900	1244100	33716	38360	50304	0	8618.9	0
AYAALAALEK	ILF3	Q12906	ILF3	HUM/	Unmodified	3984900	3839600	4074700	28887	12305	0	0	0	0
AYAALAALEKLFPDTPLALDANK	ILF3	Q12906	ILF3	HUM/	Unmodified	81251	0	0	0	0	0	0	0	0
AYAALAALEKLFPDTPLALDANKK	ILF3	Q12906	ILF3	HUM/	Unmodified	262030	416920	456320	0	0	0	0	0	0
AYAALAALEKLFPDTPLALDANKKK	ILF3	Q12906	ILF3	HUM/	Unmodified	820950	513150	582320	0	0	0	0	0	0
AYAALTDEESR	SEC63; SEC63	Q9UGP8; A6PVC(	SEC63	HUM/	Unmodified	620340	861130	563790	0	0	0	0	0	0
AYADFYR	COX6C	P09669	COX6C	HUM/	Unmodified	2857600	2896600	1726900	148980	120220	108040	0	0	0
AYALAFAER	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUM/	Unmodified	907280	1044700	907460	49966	66835	51619	0	0	0
AYAPEQLQK	POLA1; POLA1	P09884; A6NMQ1	DPOLA	HUM/	Unmodified	684770	908830	593760	0	0	0	0	0	0
AYAPGGPAYQPVVEAFGTDILHK	COASY	Q13057	COASY	HUM/	Unmodified	0	1401000	725620	0	0	0	0	0	0
AYAQGISR	CS; CS; CS; CS; CS; (	O75390; F8VPA1;	CISY	HUM/	Unmodified	47939000	42276000	46817000	4469500	3917300	5096200	387260	0	473680
AYDIYSR	CLPP; CLPP	Q16740; M0QYV(	CLPP	HUM/	Unmodified	4639800	5974100	4453200	156180	63456	72143	0	0	0
AYDPDYER	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUM/	Unmodified	1442300	1180300	761300	0	69263	0	0	0	0
AYEAAASALQIATHTAFVAK	TMPO	P42166	LAP2A	HUM/	Unmodified	14972000	12145000	10243000	0	0	0	0	0	0
AYEDQTKPVLEYYQK	AK3	Q9UJ7	KAD3	HUM/	Unmodified	1917800	1576900	1557500	0	0	0	0	0	0
AYEFAER	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUM/	Unmodified	9816700	9823200	9090000	141270	130480	130660	0	0	0
AYEKPPEKKEGEEEEENTEEPPQGEEEESMETQE	ILF2; ILF2	Q12905; B4DY09	ILF2	HUM/	Oxidation (M);Deai	3968400	2469800	2670600	358890	0	0	0	0	0
AYEQAGMMLK	NAPG; NAPG	Q99747; J3KTJ6	SNAG	HUM/	2 Oxidation (M)	503110	646270	649410	0	0	0	0	0	0
AYEQALQYSPYGSTLPASLPLGSASVTTR	FOXA1	P55317	FOXA1	HUM	Unmodified	1286600	0	1211500	0	0	0	0	0	0
AYETMAGAGVPFSANGRPLASGIR	MTA2	O94776	MTA2	HUM/	Oxidation (M);Deai	6951800	10405000	9505800	72185	331500	176880	0	39012	0
AYEVLKDEDLR	DNAJC10; DNAJC10	Q8IXB1; A0A7P0	DJC10	HUM/	Unmodified	2138200	1239000	1299800	0	0	0	0	0	0
AYFDLQTHVIQVPQGK	PHF10; PHF10	Q8WUB8; S5FZ8	PHF10	HUM	Unmodified	0	763650	722490	0	0	0	0	0	0
AYGDFAWSNPLHPDIFPGLR	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1	HUM	Unmodified	482770	374580	459020	0	0	0	0	0	0
AYGENIGYSEK	ATP1B1	P05026	AT1B1	HUM	Unmodified	686890	733730	719690	0	0	0	0	0	0
AYGENIGYSEKDRFQGR	ATP1B1	P05026	AT1B1	HUM	Unmodified	2855700	3005600	1478600	0	63698	0	0	0	0
AYGPGIEPTGNMVK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUM/	Oxidation (M);Deai	2759000	3054400	2127200	161050	211240	209110	90120	78200	77860
AYGPGIEPTGNMVK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUM/	Oxidation (M)	1494800	1440700	1269200	281370	308120	258950	141480	224780	177760
AYGPGIEPTGNMVKK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUM/	Oxidation (M)	162310	0	0	0	0	0	0	0	76461
AYGPGLEK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM/	Unmodified	936360	3017100	0	1759700	1737400	1797400	0	0	0
AYGVESHVLSPAETK	SARDH; SARDH; SA	Q9UL12; Q9UL10	SARDH	HUM/	Unmodified	1269000	0	766840	0	0	0	0	0	0
AYHEQLSVAEITNACFEPANQMVK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM/	Oxidation (M);Deai	19444000	13718000	7297400	0	0	18113	0	0	0
AYHEQLSVAEITNACFEPANQMVK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM/	Oxidation (M);2 De	0	6978800	6454800	0	0	0	0	0	0
AYHEQLSVAEITNACFEPANQMVK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Methyl (KR);Deam	2025400	0	0	0	0	0	0	0	0
AYHEQLSVAEITNACFEPANQMVK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM/	Oxidation (M)	0	17848000	17305000	0	0	0	40139	0	0
AYHEQLTVAEITNACFEPANQMVK	TUBA1C; TUBA1C;	Q9BQE3; A0A1W	TBA1C	HUM/	Oxidation (M)	2396700	2142700	2289800	0	0	0	0	0	0
AYHLQDDGTQTVR	ERLEC1	Q96DZ1	ERLEC	HUM/	Unmodified	1543000	2275600	1407600	348610	229600	398240	24373	16618	26543
AYICAHPLDR	ACAD9; ACAD9; AC	Q9H845; H0Y8Z9	ACAD9	HUM	Unmodified	739600	0	409890	0	0	0	0	0	0
AYILNLVK	CCT4	P50991	TCPD	HUM/	Unmodified	1410600	1360200	1370200	0	0	0	0	0	0
AYINKVEELK	DBI; DBI; DBI	P07108; B8ZWD1	ACBP	HUM/	Unmodified	2193800	2086800	1776000	0	0	0	0	0	0
AYLGDTSEAKEFAK	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
AYLLGKEDAAR	SQSTM1; SQSTM1; S	Q13501; C9J6J8;	SQSTM	HUM	Unmodified	2606900	2462100	2039800	69938	61568	174890	0	0	0
AYLPTGKQFLVTK	ATG3	Q9NT62	ATG3	HUM/	Unmodified	0	0	0	43414	48184	43097	0	0	0
AYLPVNESFGFTADLR	EEF2	P13639	EF2	HUM/	Deamidation (N)	0	77203	89615	0	0	0	0	0	0
AYLQQLR	ARPC3	O15145	ARPC3	HUM/	Unmodified	4348600	4123600	4269400	0	79749	75106	0	0	0
AYLRDFMYVSQDPK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB	HUM/	Oxidation (M)	1537300	3171700	2812800	108770	81419	123850	0	0	0
AYLRDFMYVSQDPKDQLLLGPTYATPK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB	HUM/	Oxidation (M)	28063000	17145000	21498000	0	0	0	0	0	0
AYPLADAHLTKK	SNU13; SNU13; SNU	P55769; A0A3B3I	NH2L1	HUM	Unmodified	2229700	2004600	2281400	0	240190	302430	0	0	0
AYPYMEGEPEDDVYLKR	MRPL1; MRPL1	Q9BYD6; H0Y8N	RM01	HUM/	Oxidation (M)	762550	620590	0	0	0	0	0	0	0
AYQDRYQDLGAYSSAR	NDUFB10; NDUFB1(	O96000; H3BPJ9	NDUBA	HUM	Unmodified	1379700	1256600	1197800	69801	57750	0	0	0	0
AYQFAGR	EMC2	Q15006	EMC2	HUM/	Unmodified	1210500	1318600	0	94530	109230	110840	0	0	0
AYQHGGVTGLSQY	UPF1	Q92900	RENT1	HUM	Unmodified	2543400	3265200	2485000	326620	385590	457970	100230	117420	0
AYQKQPTIFQNK	RPS11; RPS11; RPS1	P62280; M0R1H6	RS11	HUM/	Unmodified	5395900	4757300	4997700	184830	184260	190500	16050	0	17752
AYQNYIK	MME; MME; MME	P08473; A0A6Q8	NEP	HUM/	Unmodified	672800	429570	649070	0	0	0	0	0	0
AYRDEMLTTNVPEIQR	DHX8; DHX8	Q14562; F5H658	DHX8	HUM/	Oxidation (M)	1732500	3326600	2741600	40703	27958	50526	0	0	0
AYSDLSR	APCS	P02743	SAMP	HUM/	Unmodified	260370	0	0	63125	55862	192270	23619	22385	0
AYSDPSTGEPATYGELQQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM/	Unmodified	4727500	4031400	3974300	0	997430	1100500	73276	127260	0
AYSDQAIVNLLK	GCN1	Q92616	GCN1	HUM/	Unmodified	2278600	1839000	1725800	0	0	0	0	0	0
AYSEAHEISKEHMQPTHPIR	YWHAG	P61981	1433G	HUM/	Oxidation (M)	2560500	2780400	3805200	0	0	0	0	0	0
AYSNWPTYPQLYVK	GLRX3	O76003	GLRX3	HUM	Unmodified	1757500	0	1519300	0	0	0	0	0	0
AYSSFGGGR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUM/	Unmodified	1047000	1179300	2631800	110710	106340	50828	0	0	0
AYTGFSSNSER	PPM1G	O15355	PPM1G	HUM	Unmodified	572430	398480	496840	0	0	0	0	0	0
AYTGFSSNSER	PPM1G	O15355	PPM1G	HUM	Deamidation (N)	2138000	943790	2443000	0	86534	0	0	0	0
AYTGREFDDLSPEQQR	ATP2A3	Q93084	AT2A3	HUM	Unmodified	1411800	1814900	113360	0	44168	0	0	0	0
AYTNFDAERDALNIETAIK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	2234700	2671500	2361300	0	0	0	26761	0	0
AYTNFDAERDALNIETAIK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Deamidation (N)	4286100	4893400	0	0	0	0	12412	0	0
AYTNFDAERDALNIETAIKTK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Methyl (KR)	661990	338340	650270	0	0	0	0	0	0
AYTNFDAERDALNIETAIKTK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	0	399950	429720	0	0	0	0	0	0
AYVAVDGIPQGVLER	GLB1; GLB1	P16278; E7EQ29	BGAL	HUM/	Unmodified	807220	762760	653840	10537	0	0	0	0	0
AYVPALQMAFK	PRKDC	P78527	PRKDC	HUM/	Oxidation (M)	2141600	2451500	3074000	0	0	0	0	0	0
AYVSLFMR	CHD4; CHD3; CHD5	Q14839; Q12873;	CHD4	HUM/	Oxidation (M)	1384300	1280700	1364400	26020	0	0	0	0	0
AYVSTLMGVPGR	EIF3F; EIF3F	O00303; H0YDT6	EIF3F	HUM/	Oxidation (M)	2647300	2860300	2551100	51765	110050	0	0	0	0
AYYEFR	HNRNPUL2; HNRNP	Q1KMD3; H3BQZ	HNRL2	HUM	Unmodified	2047600	0	1525300	48716	37470	40626	0	0	0

AYYEFREEAYHSR	HNRNPUL2; HNRNF	Q1KMD3; H3BQZ	HNRL2	HUM	Unmodified	13156000	17206000	19228000	621440	769960	575120	131280	118590	158300
AYYHLLEQVAPK	LCP1	P13796	PLSL	HUMA	Unmodified	1361900	1022900	1072200	15510	0	0	0	0	0
CAADLGLNK	HINT1	P49773	HINT1	HUM	Unmodified	1696100	959350	1300100	0	0	0	0	0	0
CAADLGLNKGYR	HINT1	P49773	HINT1	HUM	Unmodified	1280100	1010400	1406200	38220	41050	43666	0	0	0
CAADRLPTMD	SUMF1; SUMF1	Q8NBK3; E9PF05	SUMF1	HUM	Oxidation (M)	383560	333860	355830	234070	236890	246630	0	0	0
CAEIFAR	FARSB	Q9NSD9	SYFB	HUMA	Unmodified	1404100	0	1462400	95959	80001	75969	19000	10912	20475
CAGAAGGGPGSGPPEAAR	REPS2	Q8NFH8	REPS2	HUM	Unmodified	263430	0	0	124760	114640	115000	0	0	0
CAGNEDIITLR	PCNA	P12004	PCNA	HUMA	Deamidation (N)	939420	1023600	563050	0	0	0	0	0	0
CAPGYYGNPSQGQPCQR	HSPG2; HSPG2	P98160; H0Y5A9	PGBM	HUM	Unmodified	148170	354810	135730	0	0	49764	0	0	0
CATITPDEAR	IDH2	P48735	IDHP	HUMA	Unmodified	0	835260	1031600	58109	67334	85602	0	0	0
CATITPDEARVEEFK	IDH2	P48735	IDHP	HUMA	Unmodified	0	683970	0	44708	0	0	0	0	0
CATITPDEK	IDH1; IDH1	O75874; C9J4N6	IDHC	HUMA	Unmodified	0	175800	0	0	270700	166190	0	0	0
CDFPIMK	GLO1	Q04760	LGUL	HUMA	Oxidation (M)	1749000	958330	1752800	0	0	0	0	0	0
CDVDIRK	ACTG1; ACTBL2; A	P63261; Q562R1;	ACTG	HUMA	Unmodified	8661600	6983600	12505000	585980	459210	599280	0	0	0
CDVDIRKDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUMA	Oxidation (M)	10522000	5178200	3937000	0	0	0	0	0	0
CDVDIRKDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUMA	Oxidation (M);Met	1597600	1184700	1178500	0	0	0	0	0	0
CELLYEGPPDDEAAMGIK	EEF2	P13639	EF2	HUMAN	Oxidation (M)	4756100	5636500	0	148320	138090	110440	0	0	0
CESAFLSK	RPL24; RPL24; RPL	P83731; C9JNW5	RL24	HUMA	Unmodified	762000	902700	875730	29069	25977	0	0	0	0
CESAPGCGVWQRPVIDNPNYK	CANX; CANX; CAN	P27824; A0A7P01	CALX	HUM	Unmodified	7251400	1851400	1236800	32249	28005	32836	0	0	0
CEVNGAGAHPLFAFLR	GPX1; GPX1	P07203; A0A2R8	GPX1	HUMA	Deamidation (N)	296570	365140	0	0	0	0	0	0	0
CEVRPEVLFLTR	APCDD1	Q8J025	APCD1	HUM	Unmodified	0	0	0	47908	35576	35443	0	0	0
CFFLSKIEEK	PRKDC	P78527	PRKDC	HUM	Unmodified	546100	276810	219740	0	0	0	0	0	0
CFGTGAAGNR	PRKDC	P78527	PRKDC	HUM	Unmodified	970580	792250	1149200	61749	64971	43304	0	0	0
CFIEEIPDETMVIGNYR	TMED4; TMED9; TA	Q7Z7H5; Q9BVK	TMED4	HUM	Oxidation (M)	4344600	3378700	2788100	0	0	0	0	0	0
CFSCSKVLKNNIRFMNHMK	ZNF280C; ZNF280C	Q8ND82; Q9UJJ2	ZZ80C	HUM	4 Methyl (KR);Dea	34355000	37018000	9015200	26718000	25990000	26743000	11744000	45119000	40210000
CGAHYKLVPQQLAH	COX5B	P10606	COX5B	HUM	Unmodified	0	0	0	83208	127640	73313	0	0	0
CGDLVFAK	HDGF	P51858	HDGF	HUM	Unmodified	0	0	0	58199	69892	54338	0	0	0
CGVALSTPGGAR	CD163; CD163; CD1	Q86VB7; C9JHR8	C163A	HUM	Unmodified	0	0	0	0	0	161250	0	0	0
CGVMASSGLCQSVAASCAR	MFAP2	P55001	MFAP2	HUM	Oxidation (M)	0	0	0	56457	50178	54561	57590	62149	43986
CGYAGSNFPEHIFPALVGRPIIR	ACTR2; ACTR2; AC	P61160; A0A1B0	ARP2	HUM	Unmodified	0	0	2180200	0	0	0	0	0	0
CIAPETLR	SMC2	O95347	SMC2	HUM	Unmodified	620440	572600	794630	0	0	0	0	0	0
CIDPIRCEEPYLR	FBLN5; FBLN5; FBL	Q9UBX5; G3XA9	FBLN5	HUM	Unmodified	0	0	0	75322	73404	117000	288090	218110	256690
CIENLEELQSLR	PPP1R7; PPP1R7; PI	Q15435; C9JRC4;	PP1R7	HUM	Unmodified	0	0	0	0	0	0	0	0	0
CIESLIAVFQK	S100A11	P31949	S10AB	HUM	Unmodified	0	0	0	0	18491	0	0	23773	0
CILPFDKETGFHR	SLIRP; SLIRP; SLIRI	Q9GZT3; G3V4X0	SLIRP	HUM	Unmodified	726440	750290	999450	0	0	0	0	0	0
CILQDGR	SNRPB; SNRPN; SNI	P14678; P63162;	RSMB	HUM	Unmodified	1293100	937560	1144900	0	19801	0	0	0	0
CISELKAETR	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Unmodified	1647400	1252100	1635000	0	0	0	0	0	0
CKDDEFTHLYTLIVRPDNTYEVK	CALR; CALR; CALR	P27797; A0A7P01	CALR	HUMA	Unmodified	3342300	0	3214200	0	0	0	0	0	0
CKELGITALHIK	RPS14; RPS14; RPS1	P62263; E5RH77;	RS14	HUMA	Unmodified	1223700	1189100	1158400	0	0	0	0	0	0
CLAALASLR	ILF3; ILF3; ILF3	Q12906; K7EKJ9;	ILF3	HUMA	Unmodified	1612400	1374300	1165200	19812	19001	24654	0	0	0
CLAFHDISPQAPTHFLVIPK	HINT1; HINT1; HINT	P49773; H0YC49;	HINT1	HUM	Unmodified	845110	779150	784970	0	0	0	0	0	0
CLAPLEGAR	A1BG	P04217	A1BG	HUMA	Unmodified	1137900	959320	935090	111480	102130	106010	28694	22312	22670
CLAPMMSEVIR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	2 Oxidation (M)	3938800	4075000	5374800	162770	125400	177850	0	0	0
CLCLPGFSGPR	HSPG2	P98160	PGBM	HUM	Unmodified	0	0	439850	177140	174640	135650	153570	52509	95264
CLCPEGFSLSSSGR	FBN1; FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	0	0	0	49055	46291	50357	74883	83793	69678
CLCPEGFSLSSSGRR	FBN1; FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	217540	0	0	90608	72201	60978	82683	83117	84181
CLDALAALR	ZFR	Q96KR1	ZFR	HUMAN	Unmodified	346540	0	198990	0	0	5819.8	0	0	0
CLGNGNPPPEEFLFYLPGQPEGIR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Deamidation (N)	179820	298540	589080	0	0	0	0	0	0
CLGPPTTPGPYR	MPG; MPG	P29372; A2IDA3	3MG	HUMA	Unmodified	1073600	515370	1136500	0	0	47166	0	0	0
CLTQSGIAGGYKPFNLETCR	SRI; SRI; SRI	P30626; B4DHQ6	SORCN	HUM	Unmodified	1831700	629650	472730	70006	0	0	0	0	0
CLTTDEYDGHSTYPSHQYQ	BLVRB; BLVRB; BL	P30043; M0R192;	BLVRB	HUM	Unmodified	1020600	830540	0	211620	188880	183170	32633	30680	27645
CLVDSAETKNHRPGNGAGPK	LLGL2; LLGL2	Q6P1M3; J3QRV5	L2GL2	HUM	Methyl (KR);Deam	0	0	5342500	0	0	0	0	0	0
CLVMKAEMNGSK	EPCAM; EPCAM; EI	P16422; C9JKY3;	EPCAM	HUM	2 Oxidation (M);De	952370	1328100	0	235480	370040	359190	0	0	0
CLYASVLTAQPR	EEF2	P13639	EF2	HUMAN	Unmodified	4141100	4029000	4586800	262980	186660	189010	39653	0	0
CMMAQYNR	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	2 Oxidation (M)	155750	150230	154170	0	0	0	0	0	0
CMMCDVRKGTSTRK	YAF2	Q8IY57	YAF2	HUMA	2 Oxidation (M);2 I	2897000	1434200	301720	502210	460530	472010	28806	36543	0
CMTNTPVVVR	PYCR1; PYCR1; PY	P32322; J3QL32;	P5CR1	HUM	Oxidation (M)	512190	509740	480410	139900	158370	182030	0	0	0
CNEPAVWSQLAK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	1548100	1687100	1544300	39829	0	0	0	0	0
CNNVLYIR	SNRPF	P62306	RUXF	HUMA	Deamidation (N)	0	2210000	2678900	123640	0	151690	0	0	0
CNNVLYIR	SNRPF	P62306	RUXF	HUMA	Unmodified	0	0	0	0	183790	203800	0	0	0
CNVENLPR	GLG1; GLG1	Q92896; H3BM42	GSLG1	HUM	Unmodified	840710	1010900	253280	59148	74954	81950	0	0	0
CPAPELLGGPSVFLFPPKPK	IGHG3; IGHG1; IGH	P01860; P01857;	IGHG3	HUM	Unmodified	2229000	1507100	1672700	0	0	0	0	0	0
CPEALFQPSFLGMESCGIHETTFNSIMK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUMA	2 Oxidation (M)	4454400	4389100	0	0	0	0	0	0	0
CPEALFQPSFLGMESCGIHETTFNSIMK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUMA	2 Oxidation (M);De	10207000	0	1818000	0	0	0	0	0	0
CPGESSHICDFIR	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1	HUMA	Unmodified	1450700	1299800	1380900	0	0	0	0	0	0
CPLMNVEHMKKMK	PGBD1	Q96JS3	PGBD1	HUM	3 Oxidation (M);2 I	232210	0	162180	55871	0	63345	13405	0	28710
CPLNYFACPSGR	LRP1	Q07954	LRP1	HUMA	Unmodified	0	0	0	88504	92865	63522	0	0	0
CPNPPVQENFDVNKYLGR	APOD; APOD; APOI	P05090; C9JX71;	APOD	HUM	Unmodified	2541200	0	0	139400	0	0	0	0	0
CPPGFYTSPDGTR	FBN1	P35555	FBN1	HUMA	Unmodified	0	0	0	81068	95962	153420	89109	82747	91778
CPSPPMINLISVGGQHQGVFGLPR	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1	HUMA	Oxidation (M)	7223800	6471300	7468200	0	0	0	0	0	0
CPVEIPPIR	KPRP	Q5T749	KPRP	HUMA	Unmodified	0	0	128210	190570	176060	154790	0	0	0
CPVEIPPIRR	KPRP	Q5T749	KPRP	HUMA	Unmodified	0	0	0	116900	114130	97445	0	0	0
CPVGYVLR	FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	280600	0	275200	78771	92919	100440	141120	173950	137820
CQSLQEELDFRK	LMNB2	Q03252	LMNB2	HUM	Unmodified	796750	818600	1576400	71176	93087	71535	0	0	0
CQSLTEDLEFR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	2171300	0	1396000	0	76106	92206	0	0	0
CQVFEETQIGGER	CCT7	Q99832	TCPH	HUMA	Unmodified	866350	769330	979850	0	0	0	0	0	0
CRPVNQEIVR	HSPG2	P98160	PGBM	HUM	Unmodified	628430	1004100	998560	405750	377160	732630	381700	367970	338690
CRPVNQEIVR	HSPG2	P98160	PGBM	HUM	Deamidation (N)	0	0	0	197040	205840	244790	0	0	0
CSATGSPAPTIHWSK	HSPG2	P98160	PGBM	HUM	Unmodified	0	0	0	145930	132270	206910	0	0	0
CSDAAGYPHATHDLEGPPLDAYSIQGQHTISPLDLAK	PCBP1	Q15365	PCBP1	HUM	Unmodified	0	1406700	0	0	0	0	0	0	0
CSESIPKDSLR	PARP1; PARP1; PAR	P09874; A0A71V	PARP1	HUM	Unmodified	528580	668170	703000	59326	43705	29155	0	0	0
CSGDGVGAPR	PPM1G	O15355	PPM1G	HUM	Unmodified	1130100	1614500	1482600	0	0	0	0	0	0
CSGPGLER	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Unmodified	1653800	1886900	1569600	440790	583720	459890	301230	236970	224920
CSGPGLSPGMVR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUMA	Oxidation (M)	444210	1308700	0	57033	97442	137150	385370	350430	375800
CSILAAANPAYGR	MCM7	P33993	MCM7	HUM	Unmodified	1481000	924940	1084400	0	0	0	0	13750	0
CSPTEAAVR	HAPLN1	P10915	HPLN1	HUM	Unmodified	4688400	3805400	3370500	0	0	0	0	0	0
CSQAVYAAEK	CSRP1; CSRP1; CSR	P21291; E9PND2;	CSRP1	HUM	Unmodified	1430900	851070	913880	0	0	0	0	0	0
CSVIRDSLLQDGEFSMDLR	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Oxidation (M)	26359000	13680000	24545000	0	0	0	0	0	0
CSWQDLKDYMR	SRSF4; SRSF4	Q08170; A0A0D9	SRSF4	HUM	Unmodified	901640	370430	553500	0	0	7880.2	0	0	0
CTGGEVGATSALAPK	RPL12	P30050	RL12	HUMA	Unmodified	5411500	5588100	5960200	552950	480620	491520	33411	0	0
CTKEEHLCTQR	TPM3; TPM3	J3KN67; A0A087	J3KN67	HUM	Unmodified	353570	0	249540	0	0	0	0	0	0
CVAANPSGVDFLIFQVSVKMK	IGSF10	Q6WRI0	IGS10	HUM	Unmodified	585850	475180	588900	0	0	0	0	0	0
CVDFQTLK	MCM5; MCM5; MC	P33992; B1AHB	MCM5	HUM	Unmodified	781390	545130	0	0	0	0	0	0	0
CVEDPETGLR	PLEC; PLEC	Q15149; H0YDN	PLEC	HUMA	Unmodified	0	763330	1013800	72064	68832	74783	0	0	0
CVELVHEEMQR	DNM1L	O00429	DNM1L	HUM	Oxidation (M)	1413600	1241300	1032500	32195	44419	0	0	0	0
CVLLSNLSSTSHVPEVDPGSAELQK	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	3292700	4296900	1725700	0	0	0	0	0	18091
CVLNEGMPIYR	DNAJA1	P31689	DNJA1	HUM	Oxidation (M)	516160	591020	928810	0	0	0	0	0	0
CVLPEEDSGELAKPK	STRAP	Q9Y3F4	STRAP	HUM	Unmodified	2099100	1638900	1990400	165740	119230	155540	0	0	0
CVVSEAGK	PPM1G	O15355	PPM1G	HUM	Unmodified	1638800	1833600	3327600	0	0	0	0	0	0
CVVVGDGAVGK	RHOQ; RAC2; RHOJ	P17081; P15153;	RHOQ	HUM	Unmodified	562280	854880	851140	39238	52865	47966	0	0	0
CYLTMTQALEAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	600440	0	371980	0	0	68256	0	0	0
CYQSEFGR	ANXA7	P20073	ANXA7	HUM	Unmodified	376210	430330	493420	48201	0	0	0	0	0
DAAAALAAMNGRK	TIAL1; TIAL1; TIAL	Q01085; E7ETJ9;	TIAR	HUMA	Oxidation (M);Deam	852580	895820	845880	0	0	0	0	0	0
DAAASASTPAQAPTSDSPVAEDASR	GFER; GFER; GFER	P55789; H3BRD2	ALR	HUMAN	Unmodified	2026100	1094400	1113700	133100	124690	113390	0	0	18091
DAAEAIKKHNVGVK	IDH1; IDH1; IDH1	O75874; C9J4N6;	IDHC	HUMA	Unmodified	0	0	0	103220	99130	120620	0	0	0
DAAFEALGTALK	CKAP5	Q14008	CKAP5	HUM	Unmodified	962460	0	1035300	0	0	0	0	0	0
DAAGSGDKPGADTGR	MRPL53	Q96EL3	RM53	HUMA	Unmodified	875170	1256500	1000100	0	58460	72184	0	0	0
DAANLLNDALAIR	KLC1; KLC1; KLC1;	Q07866; G3V5R9	KLC1	HUMA	Unmodified	57145	244020	149680	0	0	0	0	0	0
DAASGEVVGK	THOP1; THOP1; THO	P52888; K7EMU4	THOP1	HUM	Unmodified	1948600	2145400	2269600	0	0	0	0	0	0
DAASLESQLQDTQELLQEETR	MYH10	P35580	MYH10	HUM	Unmodified	1638200	0	1863000	0	0	0	0	0	0
DAASVDKVLELK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Unmodified	707450	681230	507520	0	0	0	0	0	0
DAASVEKVLDQK	HNRNPAB; HNRNP	Q99729; D6R9P3	ROAA	HUM	Methyl (KR)	557990	0	427430	0	0	0	0	0	0
DAASVEKVLDQKEHR	HNRNPAB; HNRNP	Q99729; D6R9P3	ROAA	HUM	Unmodified	3509300	4263300	5669400	0	0	0	0	0	0
DAATIMQPYFTSNGLVTK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M);Deai	1055400	3093300	179570	88552	22653	0	0	0	0
DAAWYQLLMAPLSEDQR	IPO8; IPO8	O15397; H0YH64	IPO8	HUMA	Oxidation (M)	102950	0	391680	0	0	0	0	0	0
DACLNAR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Unmodified	1331500	1258600	1300600	0	122690	175890	0	0	0
DADDAVYELDGK	SRSF5; SRSF5; SRSF	Q13243; B4DJK0;	SRSF5	HUM	Unmodified	677690	790940	453190	0	0	0	0	0	0
DADEIKEHLFFQK	RPS6KA5	O75582	KS6A5	HUM	Unmodified	600220	505170	536430	0	0	0	0	0	0
DADETKEWIEEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	560950	668320	382740	0	0	33666	0	0	0
DADIGVAEAER	FLOT2; FLOT2; FLO	Q14254; J3QLD9;	FLOT2	HUM	Unmodified	1014100	843590	1126400	176590	156990	196250	0	0	0
DADLTDTAQTR	GFUS; GFUS; GFUS;	Q13630; E9PKL9;	FCL	HUMAN	Unmodified	4786700	4098200	4521100	325760	365920	369070	0	0	0
DADPILISLR	CORO1B	Q9BR76	COR1B	HUM	Unmodified	4160500	5393100	5138500	604510	524820	523680	52890	50165	63805
DADVQNFVSFISK	ECI1; ECI1; ECI1	P42126; Q96DC0;	ECI1	HUMA	Deamidation (N)	1396900	1249300	1200800	0	0	0	0	0	0
DADVQNFVSFISK	ECI1; ECI1; ECI1	P42126; Q96DC0;	ECI1	HUMA	Unmodified	5227700	5932500	4365700	0	0	0	0	0	12181
DADVQNFVSFISKDSIQK	ECI1; ECI1	P42126; Q96DC0	ECI1	HUMA	Deamidation (N)	4350300	0	3213100	12807	0	0	0	0	0
DADVQNFVSFISKDSIQK	ECI1; ECI1	P42126; Q96DC0	ECI1	HUMA	Unmodified	0	13584000	2393100	0	0	0	0	0	0
DADVQNFVSFISKDSIQK	ECI1; ECI1	P42126; Q96DC0	ECI1	HUMA	Methyl (KR)	0	0	1002900	0	0	0	0	0	0
DAEDAIYGR	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9	HUM	Unmodified	480780	753410	1174800	19101	23706	17584	0	0	0
DAEDAMDAMDGAVLDGR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2	HUM	2 Oxidation (M)	0	728060	0	0	0	0	0	0	0
DAEDAMDAMDGAVLDGRELR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2	HUM	2 Oxidation (M)	2777900	3055600	1945400	469310	35047	0	0	0	0
DAEDAVYGR	SRSF1; SRSF1	Q07955; J3KTL2	SRSF1	HUM	Unmodified	3558800	2804100	1847400	121790	77929	0	0	0	0
DAEDAVYGRDGYDYDGYR	SRSF1; SRSF1	Q07955; J3KTL2	SRSF1	HUM	Unmodified	1603900	1441500	1072200	51196	0	0	0	0	0

DAEEALR	TOR1AIP1; TOR1AIF	Q5JTV8; A0A0A0	TOIP1_HUM	Unmodified	1081700	1543000	0	0	0	0	0	0
DAEELEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	524290	0	572760	0	0	0	0	0
DAEELEKWIQEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1477300	951900	0	0	0	0	0	0
DAEGILEDLQSYR	CYRIB; CYRIB; CYR	Q9NUQ9; E5RHU	CYRIB_HUM	Unmodified	4203900	3922900	3522300	0	0	0	0	0
DAEKKDQMKADLTALFLPR	FLII	Q13045	FLII_HUMAN	Oxidation (M)	1164300	1007800	1364700	0	0	39054	0	0
DAELAGSPELLEFLGTR	HS1BP3; HS1BP3	Q53T59; F6TR53	H1BP3_HUM	Unmodified	290110	155200	223260	0	0	0	0	0
DAELQDQEFGKR	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182_HUM	Unmodified	2324200	0	0	0	0	0	0	0
DAEMDRIFANTESYLK	NCBP1	Q09161	NCBP1_HUM	Oxidation (M)	0	1026700	993190	0	0	0	0	0
DAENQKNWLDPAK	EPB41L3; EPB41L3;	Q9Y2J2; A0A0A0	E41L3_HUM	Methyl (KR);2 Dea	737090	1531600	1135500	32040	42597	33397	0	0
DAESIHQYLLQR	NPEPPS; NPEPPS; N	P55786; E9PLK3;	PSA_HUMAN	Unmodified	10192000	10162000	11370000	433070	460750	413020	49794	34807
DAEVERDEER	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14_HUM	Unmodified	254350	279290	307940	9817.4	0	19743	0	0
DAFADAVQR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	12651000	13225000	13494000	211570	213550	193500	0	0
DAFLVFR	ARFGEF1; ARFGEF2	Q9Y6D6; Q9Y6D7	BIG1_HUMAN	Unmodified	574220	390860	402740	42782	36301	45107	0	0
DAFPEAIIVKPSDIFGR	NDUFA9; N/A	Q16795; A0A3B3	NDUA9_HUM	Unmodified	3039800	2119800	1933200	0	0	0	0	0
DAFPEAIIVKPSDIFGREDR	NDUFA9; N/A	Q16795; A0A3B3	NDUA9_HUM	Unmodified	1013300	751780	818180	0	0	0	0	0
DAFPVAGQKLIYAGK	RAD23B; RAD23A; I	P54727; P54725;	RD23B_HUM	Methyl (KR)	662990	1069300	1339800	11071	0	0	0	0
DAFRENKNVK	LYRM4; LYRM4; LY	Q9HD34; H7C4Q9	LYRM4_HUM	3 Methyl (KR);2 D	0	0	0	0	0	0	0	0
DAFTDSAISAK	ATXN2; ATXN2; AT	Q99700; A0A5F9	ATX2_HUM	Unmodified	750550	0	972640	54090	0	0	0	0
DAGEGGLSLAIEGPSK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUM	Unmodified	2061200	1589900	2630500	54505	76290	0	38989	37319
DAGEGLLAVQITDPEGKPK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUM	Unmodified	9412000	7668400	8808900	0	0	0	236980	161820
DAGEGLLAVQITDQEGKPK	FLNB; FLNB	O75369; E7EN95	FLNB_HUM	Unmodified	0	3656800	0	260890	232510	175930	44168	50182
DAGEGLLAVQITDQEGKPKR	FLNB; FLNB	O75369; E7EN95	FLNB_HUM	Unmodified	0	0	0	0	0	47980	0	0
DAGHPLYPFNDPY	AKR1A1	P14550	AK1A1_HUM	Unmodified	3019700	3574500	2899700	913120	896920	778690	246830	237590
DAGIEPGPDTYLALLNAYAEK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Deamidation (N)	723420	450230	654990	0	0	0	0	0
DAGIEPGPDTYLALLNAYAEK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Unmodified	245950	240880	315810	0	0	0	0	0
DAGIREAK	FLOT1; FLOT1; FLO	O75955; A2ABJ5;	FLOT1_HUM	Unmodified	221550	210820	229980	93849	0	97951	0	0
DAGLAVRDVSELTGFPEMLGGR	ATIC; ATIC	P31939; F8WEF0	PUR9_HUMA	Oxidation (M)	1492700	710610	1093700	0	0	0	0	0
DAGLTPDLLSYAAALQCMGR	POLRMT; POLRMT	O00411; K7EMH3	RPOM_HUM	Unmodified	0	0	0	0	0	0	0	0
DAGMQLQGYR	GOT2	P00505	AATM_HUM	Oxidation (M)	6693900	10783000	5965900	382760	485580	472670	0	0
DAGPLLISLK	CORO1A	P31146	COR1A_HUM	Unmodified	1456800	1439100	1485100	0	83172	38617	0	0
DAGPLLISLKDGYVPPK	CORO1A	P31146	COR1A_HUM	Unmodified	2590700	1793200	1746100	15344	0	23280	0	13788
DAGQISGLNVLR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	26473000	24584000	32776000	1291600	1043600	1198800	107670	87379
DAGSGPPATEGSMDTLENVQLK	TSPYL5	Q86VY4	TSYL5_HUM	Oxidation (M)	1279600	0	1044100	0	0	0	0	0
DAGTIAGLNVLR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Deamidation (N)	4374300	4675200	4056000	38441	35464	21832	0	0
DAGTIAGLNVLR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	171960000	112140000	165220000	2282500	2643000	2526200	178450	165040
DAGTIAGLNVMR	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Oxidation (M)	104220000	95547000	89673000	2717100	148500	2593300	107790	121050
DAGTIAGLNVMR	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Oxidation (M);Deai	3168300	2648900	3062500	0	0	0	0	0
DAGTITGLNVLR	HSPA2	P54652	HSP72_HUM	Unmodified	6192200	4251100	4153100	144100	96426	94637	0	0
DAGVIAGLNVLR	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L_HUM	Unmodified	62209000	37491000	36901000	1599200	1367500	879860	295560	276830
DAGVIAGLNVLR	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L_HUM	Deamidation (N)	387130	558940	425970	0	0	0	0	0
DAHNALLDIQSSGR	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL_HUM	Unmodified	0	1527100	1348800	0	0	0	0	0
DAIAQAVR	TKT; TKT	P29401; A0A0B4J	TKT_HUMAN	Unmodified	1812300	1648900	1446600	0	30907	0	0	0
DAIFKQFHFKDFNR	PCBD1	P61457	PHS_HUMAN	Unmodified	1524800	1915400	1207900	0	0	0	0	0
DAINQGMDEELERDEK	PDHB; PDHB; PDHB	P11177; F8WF02;	ODPB_HUMA	Oxidation (M)	1898500	1790500	2273400	0	0	95014	0	0
DAKGISQEQMNEFR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1_HUM	Oxidation (M)	513850	335200	0	235910	132350	218300	0	0
DAKGISQEQMQEFR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Oxidation (M)	1764200	1229300	1459400	579940	738620	767210	0	0
DAKGISQEQMQEFR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Oxidation (M);Metl	346660	510100	315450	0	0	0	0	0
DAKIYQIVEGTSQIQR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Methyl (KR)	1526300	0	1375500	0	0	0	0	0
DAKIYQIVEGTSQIQR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	0	1355100	0	80565	78393	73854	0	0
DAKLDKAQIHDLVLVGGSTR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Unmodified	0	4555000	4224300	0	0	0	0	0
DAKLDKSQIHDIVLVGGSTR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	0	2642700	2159000	0	0	22713	0	30016
DALMQPVR	VPS4B	O75351	VPS4B_HUM	Oxidation (M)	3113800	2418800	3089300	89895	0	0	0	0
DALNIETAIK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Unmodified	1741300	1847400	1987300	524650	520690	539100	43407	34506
DALNLAQMQEQTLQLEQQSK	ATAD3A; ATAD3C;	Q9NVI7; Q5T2N8	ATD3A_HUM	Oxidation (M)	1406300	1520500	0	0	0	0	0	0
DALNLAQMQEQTLQLEQQSK	ATAD3A; ATAD3C;	Q9NVI7; Q5T2N8	ATD3A_HUM	Oxidation (M);Deai	0	0	1380500	0	0	0	0	0
DALNQATSQVESK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	1905300	2027700	2077100	283520	0	116720	0	0
DALQGFKITQNNAMK	SNRPA; SNRPA	P09012; M0R268	SNRPA_HUM	Oxidation (M)	594250	894010	0	0	54460	0	0	0
DALSDLALIHFLNK	CCT4	P50991	TCPD_HUM	Unmodified	196640	185990	203250	0	0	0	0	0
DALSQLMNGPIR	SCPEP1	Q9HB40	RISC_HUMAN	Oxidation (M);Deai	0	531300	0	0	0	0	0	0
DALSSVQESQVAQQAR	APOC3; APOC3	P02656; B0YIW2	APOC3_HUM	Unmodified	3634400	3487800	3799300	74099	0	77118	9375.4	0
DANGNSFATR	RPS4Y2; RPS4X; RP	Q8TD47; P62701;	RS4Y2_HUM	2 Deamidation (N)	4404000	4147500	3888700	144850	95645	248620	0	0
DANLYISGLPR	ELAVL1; ELAVL1; I	Q15717; M0R055	ELAV1_HUM	Unmodified	3331300	3852600	3577100	59608	69764	76126	0	0
DANSIKKIFYMKK	PBRM1; PBRM1; PB	Q86U86; H0Y5B5	PB1_HUMAN	Oxidation (M);3 M	1749200	925740	743530	0	0	0	0	0
DAPGTGEEAAQGK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	105400	171330	212770	0	0	0	0	0
DAPQDFHPDR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	299880	565320	412830	45486	0	56490	0	0
DAPQDFHPDRVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	1152600	935440	1209700	214570	119130	106000	26393	0
DAPTHLPSVDLSNPFTK	RPRD2	Q5VT52	RPRD2_HUM	Unmodified	2995500	2840100	3354100	0	0	0	15717	0
DAPWTASSSEKAPDMSSSEEFPSFGAQVAPK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Oxidation (M)	2211800	2229200	2466900	0	38552	32797	0	0
DAQDVQASQAEADQQQTR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	2925100	2985300	0	424860	418360	482220	0	0
DAQELYAAGENR	ANXA11	P50995	ANX11_HUM	Unmodified	4332300	4776200	4787400	505520	590300	539410	0	0
DAQGQPGLER	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Unmodified	1234900	1528500	0	239270	0	32092	0	0
DAQHYGGWEHR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	1536600	1461800	1383500	0	0	0	0	0
DAQIRDSWLDNIDWVK	CD2BP2	O95400	CD2B2_HUM	Unmodified	877750	0	0	0	0	0	0	0
DAQLIKELGLR	ETHE1; ETHE1; ETH	O95571; M0QY80	ETHE1_HUM	Unmodified	729220	1360800	1128900	11123	0	0	0	0
DAQQVEPEGQEKPSPATVR	PRRC2C; PRRC2C; I	Q9Y520; H7C5N8	PRC2C_HUM	Unmodified	1331700	1370300	1111400	0	63900	66948	0	0
DAQSNAARDFVNYLVR	DHX9	Q08211	DHX9_HUMA	Unmodified	969600	2224200	1178200	0	0	0	0	0
DAQSNAARDFVNYLVR	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	2599700	3492800	3537100	0	0	0	0	0
DASAVSLSESK	MTOR	P42345	MTOR_HUM	Unmodified	0	0	0	0	0	0	0	0
DASGNKVKAEPAKIEAFR	PGK1	P00558	PGK1_HUMA	Unmodified	1414800	869120	859130	0	0	0	0	0
DASGNKVKAEPAKIEAFR	PGK1	P00558	PGK1_HUMA	Deamidation (N)	925980	846790	875670	0	0	0	0	0
DASGVTFTWTPSSGK	IGHA1; IGHA1	P01876; A0A286	IGHA1_HUM	Unmodified	1766600	1664000	1379400	45535	0	30018	0	0
DASLMVTNDGATILK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M)	1146500	792080	766420	0	0	0	0	0
DASLMVTNDGATILK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M);Deai	2515300	0	1737000	0	0	0	0	0
DASTLQSQKAEGTGDAK	HMGN4	O00479	HMGN4_HUM	Unmodified	4228400	7304800	7412400	3291400	3811000	3594900	0	0
DASVAEAWLLGQEPYLSSR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	2620800	1553100	2830000	0	0	0	0	0
DASVPLIDVTNLPTPR	EXOC4	Q96A65	EXOC4_HUM	Unmodified	909760	1671500	501670	10285	0	0	0	0
DATLTALDR	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	1578900	1060400	1553800	0	0	0	0	0
DATLTALDRGQQQVFK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	707030	917260	582780	0	0	0	9208.9	0
DATNVGDEGGFAPNILENK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	19592000	15218000	19449000	0	0	0	0	0
DATNVGDEGGFAPNILENK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Deamidation (N)	885060	921550	1123400	0	0	0	0	0
DATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	39849000	43856000	45898000	0	0	0	0	0
DATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Deamidation (N)	8683800	8276600	17562000	0	0	0	0	0
DATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Methyl (KR)	3957000	3782600	5934600	0	0	0	0	0
DATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	2 Deamidation (N)	604210	0	432150	0	0	0	0	0
DATNVGDEGGFAPNILENKEGLELLKTAIGK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	0	360700	643090	0	0	0	0	0
DATNVGDEGGFAPNILENSEALELVK	ENO2	P09104	ENOG_HUM	Unmodified	877850	484080	1064600	0	0	0	0	0
DATNVGDEGGFAPNILENSEALELVK	ENO2	P09104	ENOG_HUM	Deamidation (N)	750530	616320	1004700	0	0	0	0	0
DATSRPTDNILIPQLIR	SEC63	Q9UGP8	SEC63_HUM	Unmodified	582680	774920	515940	0	0	0	0	0
DAVDFDVR	ARFGEF1; ARFGEF1	Q9Y6D6; E5RHL7	BIG1_HUMA	Unmodified	987260	391460	455460	175460	79344	96465	0	0
DAVEDLESVGK	DCD	P81605	DCD_HUMAN	Unmodified	499920	425450	490420	936510	862510	308370	0	0
DAVQNCCGISKTEER	CILP	O75339	CILP1_HUM	2 Methyl (KR)	1090000000	994860000	1050000000	283730000	265770000	299300000	122140000	101900000
DAVRGNDTFVTLDEILR	MRE11; MRE11; MR	P49959; F5H742;	MRE11_HUM	Deamidation (N)	627890	0	433110	0	0	0	0	0
DAVSNTTNQLESK	KTN1	Q86UP2	KTN1_HUMA	Unmodified	0	0	0	0	0	0	0	0
DAVTYTEHAK	H4C1	P62805	H4_HUMAN	1 Unmodified	39803000	44546000	51820000	517860	571430	577310	0	0
DAVTYTEHAKR	H4C1	P62805	H4_HUMAN	1 Unmodified	6489900	2471000	2946200	0	0	0	0	0
DAVVYPILVEFTR	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Unmodified	1960200	1782400	1571500	0	0	0	0	0
DAWGRLPVDLAEELGHRDVAR	CDKN2A; CDKN2A;	P42771; J3QRG6;	CDN2A_HUM	Unmodified	809450	648180	1199900	0	0	0	0	0
DAYQVILDGVK	API5; API5; API5	Q9BZZ5; E9PQK4	API5_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0
DAYSGGAVNLVHVR	PSMB5	P28074	PSB5_HUMA	Unmodified	7432400	9294700	5026800	104450	94368	95350	0	0
DAYSGGAVNLVHVR	PSMB5	P28074	PSB5_HUMA	Deamidation (N)	158600	750760	917310	0	0	0	0	0
DCEVVMMGLPGAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M)	0	0	0	0	0	0	0	0
DCGATWVVLGHSER	TPI1; TPI1; TPI1; TP	P60174; U3KPS5;	TPIS_HUMAN	Unmodified	6030400	4974600	4768500	61193	50756	31974	0	0
DCGVGFR	MDK; MDK; MDK	P21741; E9PLM6;	MK_HUMAN	Unmodified	930700	579900	599340	0	28469	22889	0	0
DDAMLLK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M)	7662900	8323500	7364000	0	68150	56148	0	0
DDAYWPEAK	SAFB; SAFB	Q15424; K7EII0	SAFB1_HUM	Unmodified	559430	759900	516900	0	63657	47739	0	0
DDDIAALVVDNGSGMCKAGFAGDDAPR	ACTB; ACTB; ACTB	P60709; G5E9R0;	ACTB_HUMA	Acetyl (Protein N-t	6509300	4700800	2861300	83088	31371	27865	30883	0
DDEPVCGRPLGIR	APMAP; APMAP	Q9HDC9; H0Y51	APMAP_HUM	Unmodified	2520400	1869200	2197600	128000	104140	84893	0	0
DDEVQVVR	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26_HUMA	Unmodified	2651300	2555200	2875500	101800	115550	123140	0	0
DDFDPGTMGHVIR	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM_HUM	Oxidation (M)	970740	0	1257500	0	0	0	0	0
DDFKRELDSITPEVLPGWK	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Unmodified	451670	340460	336440	0	0	0	0	0
DDFTEER	SDHB	P21912	SDHB_HUMA	Unmodified	1806100	1871600	0	36617	43683	0	0	0
DDGEEEFAGAK	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2_HUM	Unmodified	255900	325610	321890	0	0	0	0	0
DDGLFSGDPNFWPK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Unmodified	5305000	4411500	4072500	0	0	0	0	0
DDGLFSGDPNFWPKK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Unmodified	3454800	4885300	4766700	0	0	10963	0	0
DDGLFSGDPNFWPKK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Methyl (KR)	265080	293740	224490	0	0	0	0	0
DDGLFSGDPNFWPKK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Deamidation (N)	2065000	1199200	1162400	0	0	0	0	0
DDGVFVQEVTQNSPAAR	AHNAK; AHNAK; A	Q09666; E9PQE3;	AHNK_HUM	Unmodified	208370	0	0	63540	67548	70627	22435	17580
DDGYSTKDSYSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	2910800	2627200	2140500	144220	139640	125600	0	0
DDGYSTKDSYSSRDYPSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	620000	562930	593400	37123	49669	29649	0	0
DDIENMVK	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75_HUM	Oxidation (M)	504570	634250	389960	0	0	0	0	0
DDILNGSHPVSFDK	TLN1	Q9Y490	TLN1_HUMA	Deamidation (N)	713820	791640	476330	18094	20238	0	0	0
DDNMFQIGK	SUB1	P53999	TCP4_HUMA	Oxidation (M)	1193600	979340	1007500	0	0	123690	0	0

DDPSKPVHLTAFLGYK	RPL3; RPL3; RPL3; I	P39023; H7C3M2	RL3_HUMAN	Unmodified	736970	545900	521930	0	0	0	0	0
DDRSTSFQTQLGPSGHDAGR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	0	0	963180	0	0	0	0	0
DDTIYEDEDVK	UQCRB; UQCRB; UC	P14927; B7Z2R2;	QCR7_HUMA	Unmodified	805860	840760	770740	0	0	0	0	0
DDTIYEDEDVKEAIR	UQCRB; UQCRB; UC	P14927; B7Z2R2;	QCR7_HUMA	Unmodified	3595400	3163400	3761400	227600	26409	0	0	0
DDVFGYPQQFEDKPALSK	USP9X	Q93008	USP9X_HUM	Unmodified	1499400	1347400	445650	0	0	0	0	0
DEAAYGELR	PSME2; PSME2; PSA	Q9UL46; A0A087	PSME2_HUM	Unmodified	2058200	0	1682600	56218	0	0	0	0
DEAGHFLWPGFGENAR	PCK2; PCK2	Q16822; H0YML5	PCKGM_HUN	Deamidation (N)	444550	442010	567840	0	0	0	0	0
DEAGHFLWPGFGENAR	PCK2; PCK2	Q16822; H0YML5	PCKGM_HUN	Unmodified	948050	532400	689210	0	0	0	0	0
DEELWRQR	TCHH	Q07283	TRHY_HUMA	2 Methyl (KR)	0	1425100	0	116350	108350	87120	0	0
DEFEGLFK	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Unmodified	2840500	3643100	3512400	31781	38860	22602	0	0
DEILPTTPISEQK	RPS3; RPS3; RPS3; I	P23396; E9PSF4;	RS3_HUMAN	Unmodified	0	354600	756810	0	0	0	0	0
DEIQAVER	ACO1	P21399	ACOC_HUM	Unmodified	553440	637600	655660	0	0	0	0	0
DELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Deamidation (M);Deam	13995000	12862000	13466000	0	0	0	0	0
DELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	14239000	14700000	18820000	55392	21826	0	96876	0
DELMAAVR	PSMD6; PSMD6	Q15008; C9J7B7	PSMD6_HUM	Oxidation (M)	0	0	483230	0	0	0	0	0
DELRTQTSALNRQLAEMEAER	CROCC	Q5TZA2	CROCC_HUM	Oxidation (M);3 M	447780	2986300	4559400	0	0	0	0	0
DENSVELTMAEGPYK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Oxidation (M);Deam	1206800	840910	1469500	0	0	0	0	0
DEPPPLSPAPLTPATPSSLDPFFSR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1_HUM	Unmodified	439430	316910	327080	0	0	0	0	0
DEPTGEVLSLVGK	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	876170	664080	1102600	0	0	0	0	0
DEPTGEVLSLVGKLEGTR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	1290600	1078400	1689200	0	0	0	0	0
DEQLLTNVLETLR	CPSF2	Q9P2I0	CPSF2_HUM	Unmodified	118200	50514	79347	0	0	0	0	0
DESETEKEKIK	RCC2	Q9P258	RCC2_HUMA	Methyl (KR)	761970	848590	904680	33875	0	22256	0	0
DESKEPIVEVR	NCAM1; NCAM1; N	P13591; A0A087	NCAM1_HUM	Unmodified	389320	487660	406300	0	0	0	0	0
DETNYGIPQR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Unmodified	4884600	5379000	5355900	286010	430110	355360	0	0
DETNYGIPQR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Deamidation (N)	0	0	1293900	0	0	0	0	0
DFADIPNLR	OGN; OGN	P20774; Q5TBF5	MIME_HUMA	Unmodified	0	315240	0	182240	53478	193840	0	13867
DFAEMSSQLHLTPFTAR	BCL2; BCL2; BCL2	P10415; A0A7I2V	BCL2_HUMA	Oxidation (M)	1229100	1626600	2469400	0	0	0	0	0
DFAPVIVEAFK	RPRD1A; RPRD1A	Q96P16; A0A0C4	RPR1A_HUM	Unmodified	712100	765210	769680	0	0	0	0	0
DFAVSTVPVSGPSHLR	DDAH2; DDAH2; DI	O95865; H0Y7N1	DDAH2_HUM	Unmodified	1381100	1441300	1355300	0	0	28736	0	0
DFAYGETDPLIR	TTLL12	Q14166	TTL12_HUM	Unmodified	1153600	0	0	37671	56979	55803	0	0
DFDGLVQVIIPQDESAASVK	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM_HUM	Unmodified	214250	157040	186230	0	0	0	0	0
DFDTALK	STIP1	P31948	STIP1_HUMA	Unmodified	1548100	1662700	1896800	50278	32588	69254	0	0
DFEPILEQQIHQDDFGESK	ELP1; ELP1; ELP1; I	O95163; A0A6Q8	ELP1_HUMA	Unmodified	395070	297380	220940	0	0	0	0	0
DFFLANASR	CAPN1	P07384	CAN1_HUMA	Deamidation (N)	1990200	1540500	1756200	115350	232710	107030	13890	17620
DFFLANASR	CAPN1	P07384	CAN1_HUMA	Unmodified	5065300	4104300	5761800	479960	538390	670500	78256	0
DFGRGDIGINR	MYEF2; MYEF2; MY	A0A0A0MQW0; /	A0A0A0MQW	Unmodified	573310	524000	427260	0	24109	0	6947.9	0
DFGSFDK	SOD2; SOD2; SOD2;	P04179; G8JLJ2; I	SODM_HUM	Unmodified	275630	215920	210780	0	0	0	0	0
DFGSFDKFKEK	SOD2; SOD2; SOD2;	P04179; G8JLJ2; I	SODM_HUM	Unmodified	841330	689420	794910	0	0	0	0	0
DFIHTASISFLTPLR	SH3GLB2; SH3GLB2	Q9NR46; B7ZC39	SHLB2_HUM	Unmodified	0	80902	0	0	0	0	0	0
DFIIFEAAPQETR	PPP4C; PPP4C	P60510; H3BTA2	PP4C_HUMA	Unmodified	355160	376630	300380	0	0	0	0	0
DFIQTGDPTGTGR	PPIL4	Q8WUA2	PPIL4_HUMA	Unmodified	1153800	1033100	1055400	39299	0	0	0	0
DFILPISDVR	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM_HUMA	Unmodified	5775500	4162200	4293500	17456	0	0	0	0
DFIYSLHSTER	TMEM65	Q6PI78	TMM65_HUM	Unmodified	1530900	1579700	2758600	0	0	11151	0	0
DFKKTAESKNVPLER	PCM1; PCM1; PCM1	Q15154; H0YBA1	PCM1_HUMA	3 Methyl (KR)	921430	0	0	0	0	0	0	0
DFKPGDLIFAK	PSIP1	O75475	PSIP1_HUMA	Unmodified	33456000	40237000	37415000	36958	108970	86686	0	0
DFLAGGIAAAISK	SLC25A6	P12236	ADT3_HUMA	Unmodified	1375300	1218100	1327800	35710	41363	33940	37165	0
DFLAGGVAAAISK	SLC25A5	P05141	ADT2_HUMA	Unmodified	8871900	7142600	8557600	61783	65362	79681	0	10628
DFLGKSDPFLEFFR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1_HUM	Unmodified	16316	89990	172830	0	0	0	0	0
DFLIPIGK	PDHB; PDHB; PDHB	P11177; F8WF02;	ODPB_HUMA	Unmodified	7459200	3836300	4309900	0	102200	0	0	0
DFLLKPELLR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Unmodified	7194100	8732800	6011100	0	7008.2	0	0	0
DFLLQQTMLR	GLO1	Q04760	LGUL_HUMA	Oxidation (M)	6685800	6414500	7833000	429530	162310	129580	0	12045
DFLQLFAPR	TGFB1I1	O43294	TGFI1_HUM	Unmodified	236100	165950	216120	0	0	0	19254	15191
DFLTPPLLSVR	AP2A1	O95782	AP2A1_HUM	Unmodified	373370	183730	241270	0	0	0	0	0
DFMIQGGDFTR	PPIB; PPIB; PPIB; PI	P23284; A0A7P01	PPIB_HUMA	Oxidation (M)	1530600	1303600	1157300	0	0	43064	0	0
DFMYVSQDPK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB_HUMA	Oxidation (M)	0	3185300	0	70431	135020	107700	0	0
DFMYVSQDPKDQLLLGPTYATPK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB_HUMA	Oxidation (M)	16259000	18436000	15437000	140430	0	0	17202	0
DFNPTATVK	HK1; HK1	P19367; B1AR62	HXK1_HUM	Unmodified	8253300	7896400	8868500	504810	431650	542420	0	0
DFNQFIK	SMARCA1; SMARC;	P28370; O60264;	SMCA1_HUM	Unmodified	3515600	3179700	2574500	104830	77009	86188	0	0
DFPAMVQELHQGGR	GAA	P10253	LYAG_HUMA	Oxidation (M)	1607200	2932000	2987900	27334	0	0	0	0
DFPFTIR	PNPT1	Q8TCS8	PNPT1_HUM	Unmodified	4412500	4507200	4246400	99977	119290	98400	7511.5	0
DFPLSGYVELR	NDUFS3	O75489	NDUS3_HUM	Unmodified	1050800	548030	820120	13013	0	0	0	0
DFPVESVKLTEVPVEPVLTVHPESK	PNN	Q9H307	PININ_HUMA	Unmodified	2247600	2388800	2307700	0	0	0	0	0
DFPYEEDSRPR	RBM17; RBM17; RB	Q96J25; Q5W012;	SPF45_HUM	Unmodified	1000600	982490	1112400	47402	58945	64380	0	0
DFQEYVEPGEDFPASPQR	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6;	DC1L1_HUM	Unmodified	1358200	1691600	1730100	48446	0	32635	0	0
DFQEYVEPGEDFPASPQRR	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6;	DC1L1_HUM	Unmodified	4234800	1982300	3191600	133460	27613	0	0	0
DFQHRPGGKTGSGGVASSSESNR	SF3A2; SF3A2	Q15428; K7EMT0	SF3A2_HUM	Acetyl (Protein N-t	0	0	0	48903	42861	0	0	0
DFQPVLHLVALNSPLSGGMR	COL18A1; COL18A1	P39060; H7C457;	COIA1_HUM	Oxidation (M)	923320	946190	1008100	0	0	0	0	0
DFRMNTCVPHPR	NCAPH2; NCAPH2;	Q6IBW4; A0A0A	CNDH2_HUM	2 Methyl (KR);Dea	2664900	3190700	3645200	0	0	0	0	0
DFSALESQLQDTQELLQEENR	MYH9	P35579	MYH9_HUMA	Unmodified	713870	0	860560	0	0	0	0	0
DFSALESQLQDTQELLQEENRQK	MYH9	P35579	MYH9_HUMA	Unmodified	0	0	2079600	0	0	0	0	0
DFSAPTLEDHFNK	MFAP1	P55081	MFAP1_HUM	Unmodified	1187000	875730	0	0	25646	38186	0	0
DFSLEQLR	PGRMC2	O15173	PGRC2_HUM	Unmodified	10331000	7106000	5432200	157920	146220	158190	0	0
DFSPSGIFGAFQR	ATP5MF; ATP5MF-P	P56134; G3V325;	ATPK_HUMA	Unmodified	2105400	2287300	2311500	0	0	0	14396	0
DFSVFFQK	LETM1	O95202	LETM1_HUM	Unmodified	0	0	395030	0	0	14602	0	0
DFTATDLSEFAAK	ACAA2; ACAA2	P42765; A0A0B4J	THIM_HUMA	Unmodified	3211700	2331700	3130800	0	0	0	20893	0
DFTPAELR	PGRMC1	O00264	PGRC1_HUM	Unmodified	5901600	4387700	4956900	400250	340580	412430	39052	36483
DFTPVCTTELGR	PRDX6	P30041	PRDX6_HUM	Unmodified	10318000	9367000	10214000	998630	873630	1045600	40404	38457
DFTSEPR	EIF2S3; EIF2S3B	P41091; Q2VIR3	IF2G_HUMA	Unmodified	1539800	1341900	1557300	0	0	0	0	0
DFTVSALHGDMDQK	EIF4A2; EIF4A2	Q14240; E7EQG2	IF4A2_HUMA	Oxidation (M)	367180	395060	0	0	0	0	0	0
DFTVSAMHGDMDQK	EIF4A1; EIF4A1; EIF	P60842; J3QL52;	IF4A1_HUMA	2 Oxidation (M)	1301600	1285500	1050000	0	0	0	0	0
DFTVSAMHGDMDQKER	EIF4A1; EIF4A1; EIF	P60842; J3QL52;	IF4A1_HUMA	2 Oxidation (M)	2619400	2784200	3064500	107970	76409	120120	0	0
DFTVSAMHGDMDQKERDVIMREFR	EIF4A1; EIF4A1; EIF	P60842; J3QL52;	IF4A1_HUMA	3 Oxidation (M)	3274800	1176700	1194300	219140	0	0	0	0
DFVAEPMGEKPVGSLAGIGEVLGK	BANF1	O75531	BAF_HUMAN	Oxidation (M)	36867000	39245000	0	0	0	0	0	0
DFVEDDTTHG	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	1441100	1887100	1517500	0	65167	122850	0	0
DFVNYLVR	DHX9	Q08211	DHX9_HUMA	Unmodified	47144000	50004000	37733000	893890	844590	423130	40475	79039
DFVNYLVR	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	2310400	1699700	2854200	109010	0	178830	0	0
DFWEQEVR	PCK2; PCK2	Q16822; H0YML5	PCKGM_HUN	Unmodified	764130	892350	658330	0	0	0	0	0
DFYVAFQDLPTR	MCM6	Q14566	MCM6_HUM	Unmodified	1790000	1360900	1564800	0	0	0	0	0
DGANIVIAAK	HSDL2	Q6YN16	HSDL2_HUM	Unmodified	1059400	1015100	927610	0	44710	0	0	0
DGAWGAFR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	520690	876160	431920	0	0	0	0	0
DGDFENPVPYTGAVK	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Unmodified	7634100	8088300	8744900	210660	113790	153470	0	0
DGDFENPVPYTGAVKVGAIQR	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Methyl (KR)	885460	0	772040	0	0	0	0	0
DGDILGKYVD	HSPE1; HSPE1	P61604; B8ZZ54	CH10_HUMA	Unmodified	7571400	8669100	8058000	400960	338160	352670	0	0
DGEAGAQGPPGPAGPAGER	COL1A1	P02452	CO1A1_HUM	Unmodified	562820	1373900	1106000	0	253140	0	0	0
DGEDQTQDTELVETRPAGDGTFQK	HLA-A; HLA-H; HLA	P04439; P01893;	HLAA_HUMA	Unmodified	2503000	0	2532900	0	0	0	0	0
DGEEAGAYDGPR	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Unmodified	6514900	6326000	7536600	110920	447020	142170	0	0
DGFIDLMELK	EFHD1; EFHD2; EFH	Q9BUP0; Q96C19	EFHD1_HUM	Oxidation (M)	3793600	3172200	3126800	0	11784	13117	0	0
DGFRDFPAMVQELHQGGRR	GAA	P10253	LYAG_HUMA	Oxidation (M)	930100	0	0	38763	0	30748	0	0
DGGNPFAEPSELDNPFQDPAVIQHRPSR	SCAMP3	O14828	SCAM3_HUM	Unmodified	4409500	3331800	4286000	0	0	0	0	0
DGKLHFGIDPDDTTITDLP	ASRGL1	Q7L266	ASGL1_HUM	Unmodified	1830100	1360000	1462800	0	0	0	0	0
DGKLVVECVMNNVTCTR	FABP5; FABP5	Q01469; I6L8B7	FABP5_HUM	Oxidation (M)	597910	351180	610870	0	20018	19021	0	0
DGKYDLDFKSPTDPSR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Unmodified	4022300	1853200	3837500	0	0	21596	0	0
DGLAFNALIHR	SPTBN4; ACTN4; SP	Q9H254; O43707;	SPTN4_HUM	Unmodified	398240	204200	241950	0	0	6469.2	0	0
DGLILTSR	PARK7; PARK7; PAI	Q99497; K7ELW0	PARK7_HUM	Unmodified	14646000	12657000	15070000	333370	218070	332740	0	0
DGMDNQGGYGSVGR	HNRNPH3	P31942	HNRH3_HUM	Oxidation (M)	5997300	6296100	6040900	362750	280020	243880	0	0
DGMDNQGGYGSVGR	HNRNPH3	P31942	HNRH3_HUM	Oxidation (M);Deam	1923900	2022600	2319000	146830	0	70856	0	0
DGNASGTTLLEALDCILPPTRPTDK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Unmodified	191820	231340	302360	0	0	0	0	0
DGNASGTTLLEALDCILPPTRPTDKPLR	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Unmodified	448750	348620	461150	0	0	0	0	0
DGNASGTTLLEALDCILPPTRPTDKPLR	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Deamidation (N)	962060	278400	973580	0	0	0	0	0
DGNGTVDFPEFLGMMAR	CALML3	P27482	CALL3_HUM	2 Oxidation (M);De	537280	639450	531870	0	0	0	0	0
DGNGYISAAELR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUN	Deamidation (N)	1147700	682880	1449100	44844	0	36284	0	0
DGNVLLHEMQIQHPTASLIAK	CCT6A	P40227	TCPZ_HUMA	Oxidation (M)	7045200	5945000	7393800	79278	0	56726	0	0
DGQILPVPNVVVR	RCC2	Q9P258	RCC2_HUMA	Unmodified	3114300	2526300	3222100	19239	0	15609	0	0
DGQSSPQPSPRTFSQEVSR	CARMIL1	Q5VZK9	CARL1_HUM	Unmodified	0	0	0	1039400	1089000	1046200	375230	230750
DGQVINETSQHHDDLE	VIM	P08670	VIME_HUMA	Deamidation (N)	6695600	8827500	5598300	9476200	8142400	9008400	8991.2	0
DGQVINETSQHHDDLE	VIM	P08670	VIME_HUMA	Unmodified	7303700	10211000	6464600	8999100	10092000	9686700	0	57760
DGQWFTDWDAVPHSR	NSUN2	Q08J23	NSUN2_HUM	Unmodified	1972900	843730	1576800	0	0	0	0	0
DGQYLLTGGDRGVVVVR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	985550	0	992320	57161	27522	0	84325	29451
DGRGALQNIIPASTGAAAK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	61244000	57013000	59362000	1329800	1276500	1108000	0	0
DGSAQSGVDVTPK	FRAS1	Q86XX4	FRAS1_HUM	Unmodified	0	355250	0	0	0	0	0	0
DGSDVIYPAR	DNAJB1; DNAJB1; D	P25685; M0QXK6	DNJB1_HUM	Unmodified	1168100	3697100	4731800	497150	0	96014	0	0
DGSLASNPYSGDLTK	UBAP2L; UBAP2L; I	Q14157; H7C2T8;	UBP2L_HUM	Unmodified	1715900	1692700	1779000	140850	150260	144150	0	0
DGSPIADDLLEKLVASR	NLN; NLN; NLN; NL	Q9BYT8; H0YAF	NEUL_HUMA	Unmodified	106900	162830	249690	0	0	0	0	0
DGSSGGVIR	PSMB6	P28072	PSB6_HUMA	Unmodified	725430	2448100	2679000	54788	0	65308	0	0
DGTGVVEFVR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	12998000	11902000	13305000	510820	478180	499520	0	0
DGVPGGPGETGKNGGFGR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Deamidation (N)	1559000	1628000	1227500	1137800	672700	729990	659670	0
DGVREVFEMATR	RHOA; RHOA	P61586; A0A7Z7	RHOA_HUM	Oxidation (M)	1432800	1426800	1889200	0	0	0	0	0
DGVVEITGKHEERQDEHGYISR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	2252500	2117900	1476100	0	0	244230	0	0
DGVVRNLSNDDSVTDSQMLTAISR	USP35; USP35; USP	Q9P2H5; H0YEP1	UBP35_HUM	Acetyl (Protein N-t	4912000	3321800	1461600	2839900	2719600	2915200	984490	0
DGVYFLYEALHGPPK	ADSS2	P30520	PURA2_HUM	Unmodified	196480	157230	252680	0	0	0	0	0
DGWPAMGIHGDK	DDX5; DDX5; DDX5	P17844; A0A7Z7	DDX5_HUMA	Oxidation (M)	1834500	1546300	1673100	0	0	0	0	0
DGYADIVDVLNSPLEGPDQK	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2_HUM	Unmodified	385970	0	454230	0	0	0	0	0

DGYAQILR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM/	Unmodified	1837300	1222500	651140	0	0	0	0	0	0
DGYDYDGYR	SRSF1; SRSF1	Q07955; J3KTL2	SRSF1_HUM/	Unmodified	3013100	116390	1879000	98545	134220	185740	0	0	0
DHASIQMNVAEVDK	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21_HUMA	Oxidation (M)	832350	1813600	911470	0	0	0	0	0	0
DHASIQMNVAEVDKVTGR	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21_HUMA	Oxidation (M)	11529000	14943000	10605000	0	0	0	0	0	0
DHASIQMNVAEVDKVTGRFNGQFK	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21_HUMA	Oxidation (M);Deai	2965000	0	2059200	0	0	0	0	0	0
DHAVDLIQK	C4A; C4B; C4B; C4B	P0C0L4; P0C0L5;	CO4A_HUMA	Unmodified	0	0	947440	0	0	0	0	0	0
DHAVVVGVYRPPPK	FBL	P22087	FBRL_HUMA	Unmodified	1357200	1418600	1431300	67247	0	0	0	0	0
DHDTFLAVR	LMAN2; LMAN2; LA	Q12907; D6RIU4;	LMAN2_HUN	Unmodified	303570	264150	246970	29290	0	44720	0	0	0
DHFEEAMR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	6345700	9163700	10803000	156350	360850	351140	0	0	0
DHINLPGFSGQNPLR	PNP; PNP	P00491; G3V5M2	PNPH_HUMA	Unmodified	1268600	645600	2229400	0	0	0	18501	14079	0
DHPHTAAYLQELGR	PTRHD1	Q6GMV3	PTRD1_HUM	Unmodified	624720	808480	1089800	0	0	0	0	0	0
DHPLPEVAHVK	COX4I1; COX4I1; CC	P13073; Q86WV2	COX41_HUM	Unmodified	6164600	6257200	5055100	371790	215290	271710	0	0	0
DHPPIPITDLADNIER	PTPRF; PTPRF; PTP	P10586; H0Y380;	PTPRF_HUM	Unmodified	689990	544840	745100	32181	18483	0	13580	0	0
DHQYQFLEDAVR	TRIM28; TRIM28; TI	Q13263; M0R3C0	TIF1B_HUMA	Unmodified	775960	946570	938650	0	0	0	0	0	0
DHVFEDSYRELHR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1_HUN	Unmodified	1355500	1395500	1297900	37380	36635	55067	0	0	0
DIAKEMKSKENVK	THOC2; THOC2; TH	Q8NI27; A0A0C4	THOC2_HUM	2 Methyl (KR)	584150	541020	630260	0	0	0	0	0	0
DIASTPHELYR	COL6A2	P12110	CO6A2_HUM	Unmodified	1198700	1399200	1009600	198260	138700	176090	47001	0	27796
DICNDVLSLLEK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z_HUMA	Deamidation (N)	1077700	0	0	0	0	0	0	0	0
DICNDVLSLLEK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z_HUMA	Unmodified	192410	0	113530	0	0	0	0	0	0
DIDAFWLQR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	5588800	6398600	4724900	85799	78941	94398	9855.7	11292	0
DIDEVSSLLR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	5122100	4710200	5575600	77916	66398	0	14963	0	0
DIDIHEVR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	15982000	11332000	16519000	1142800	742670	839440	0	0	0
DIDISSPEFK	AHNAK	Q09666	AHNK_HUMA	Unmodified	0	0	0	90574	84477	90470	0	0	0
DIDNLVQR	LMAN1	P49257	LMAN1_HUM	Unmodified	5490500	4648500	3570800	187980	133760	134040	0	0	0
DIDPQNDLTFLR	DYNLRB2; DYNLRE	Q8TF09; Q9NP97	DLRB2_HUM	Deamidation (N)	1087900	1956300	1452100	16876	20969	18236	0	0	0
DIDPQNDLTFLR	DYNLRB2; DYNLRE	Q8TF09; Q9NP97	DLRB2_HUM	Unmodified	5071100	4886500	4382900	0	0	0	0	0	0
DIDSFVPSK	DLAT; DLAT; DLAT	P10515; A0A7P01	ODP2_HUMA	Unmodified	1066400	1614100	1132200	85609	47620	0	0	0	0
DIDTLRDPGSQLR	IGF2R; IGF2R; IGF2I	P11717; A0A7I2V	MPRI_HUMA	Unmodified	3247200	4180600	3050800	135070	131720	76224	0	0	0
DIEDVFYK	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	0	5865500	5769200	0	0	0	0	0	0
DIEEIIDELK	NDUFV2; NDUFV2	P19404; E7EPT4	NDUV2_HUM	Unmodified	482580	258590	496140	0	0	0	0	0	0
DIELVMSQANVSR	NACA; NACA; NAC;	E9PAV3; Q13765	NACAM_HUM	Oxidation (M)	5007600	6278600	6626000	396760	388820	446370	0	0	0
DIEQSIK	ANXA4; ANXA4	P09525; Q6P452	ANXA4_HUM	Unmodified	848720	835440	1021100	0	0	0	0	0	0
DIESDIVK	N/A	N/A	N/A	Unmodified	0	0	0	0	0	0	0	0	0
DIFDYIQWKYREPKDR	POLB; POLB; POLB	P06746; E5RHZ4;	DPOLB_HUM	Methyl (KR)	0	924240	0	0	0	0	0	0	0
DIFNKGFGFGLVK	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2_HUM	Unmodified	10186000	9683700	9046800	0	0	0	0	0	0
DIFNKGFGFGLVK	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2_HUM	Methyl (KR)	6072800	4373500	6107800	0	0	0	0	0	0
DIFNKGFGFGLVK	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2_HUM	Deamidation (N)	4028500	4348300	4043400	0	0	0	0	0	0
DIFPYSENK	PSIP1	O75475	PSIP1_HUMA	Unmodified	1072700	1167200	1404600	0	0	0	0	0	0
DIFPYSENKEK	PSIP1	O75475	PSIP1_HUMA	Unmodified	978990	872170	976900	0	0	0	0	0	0
DIGEGNLSTAAAAALAAAAVK	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2_HUM	Unmodified	2138600	1398800	2030500	0	0	0	0	0	0
DIGEGNLSTAAAAALAAAAVK	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2_HUM	Deamidation (N)	239170	192060	244140	0	0	0	0	0	0
DIGKPIEKGPR	EDF1	O60869	EDF1_HUMA	Unmodified	0	1010300	597670	0	55073	0	0	0	0
DIGTNLPTLLWK	CDKAL1	Q5VV42	CDKAL_HUM	Unmodified	465200	364240	234720	0	0	0	0	0	0
DIHTLAQLISAYSLVDPEK	SRP72	O76094	SRP72_HUM	Unmodified	177760	82955	154510	0	0	0	0	0	0
DIIGLAETGSGK	DDX47	Q9H0S4	DDX47_HUM	Unmodified	0	971880	1662300	0	0	0	0	0	0
DIISDTSGDFR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Unmodified	1624100	1617400	897100	254510	200990	227990	0	0	0
DIISIAEDEDLR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	1685000	1065700	1524600	26427	29282	24149	25509	27922	0
DIKDTTVGTLSQR	PSMD7	P51665	PSMD7_HUM	Unmodified	1559400	2004100	1893400	0	0	0	0	0	0
DIKGESLFQGR	TACSTD2	P09758	TACD2_HUM	Unmodified	2526500	145100	1977500	287980	206590	157990	70766	20230	0
DIKNDSNYVVKGNAR	KIT	P10721	KIT_HUMAN	2 Methyl (KR);3 D	0	0	567310	0	0	0	0	0	0
DIKPQLELIEDEEK	MAP1B	P46821	MAP1B_HUN	Unmodified	0	0	0	0	0	0	0	0	0
DILADLIPK	CS; N/A; CS; CS; CS;	O75390; F8W031;	CISY_HUMA	Unmodified	547880	581640	509360	15595	0	17707	0	0	0
DILIACR	LRPPRC	P42704	LPPRC_HUM	Unmodified	991130	970040	848380	0	0	0	0	0	0
DILKEMFPYEASTPTGISASCR	TMPO; TMPO; TMPI	P42167; G5E972;	LAP2B_HUM	Oxidation (M)	1339000	1894900	1729900	0	0	0	0	0	0
DILLQQQQQLGHGGPEAAPR	IRF2BP2	Q7Z5L9	IF2P2_HUMA	Unmodified	1938200	1704300	2004900	0	39361	34348	0	0	0
DILLRPELEELR	CYB5R3	P00387	NB5R3_HUM	Unmodified	1255600	1089900	739470	0	0	0	0	0	0
DILSFDK	SAFB2	Q14151	SAFB2_HUM	Unmodified	1399100	0	1352000	0	0	17402	0	0	0
DILVATDVAGR	DDX23	Q9BUQ8	DDX23_HUM	Unmodified	885730	1685500	2629500	51915	61873	101620	0	0	0
DILVLPLDLTDTGSHEAATK	DHRS7; DHRS7; DH	Q9Y394; H0YJ66;	DHRS7_HUM	Unmodified	320850	1461800	1870900	0	0	0	0	0	0
DIMSIYKEPPPGMFVVPDTVDMTK	UBE2Z; UBE2Z	Q9H832; H0Y9X8	UBE2Z_HUM	3 Oxidation (M)	889890	944020	996980	0	0	0	0	0	0
DIMTPLVALLK	HEATR3	Q7Z4Q2	HEAT3_HUM	Oxidation (M)	184300	185170	188300	0	0	0	0	0	0
DINELNLPK	UBE2M	P61081	UBC12_HUM	Unmodified	0	2091400	0	57576	58088	67402	0	0	0
DINQEVYNFLATAGAK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM/	Unmodified	1608500	1335000	1679200	0	0	0	0	0	0
DIPGLTDTTVPR	RPS6; RPS6	P62753; A2A3R5	RS6_HUMAN	Unmodified	3503300	2501800	3356100	145120	125130	117690	0	15271	0
DIPVLVATDVAAR	DDX42; DDX42	Q86XP3; A0A0A(	DDX42_HUM	Unmodified	3350500	3191600	3045900	97488	98312	87056	12476	10249	0
DIPVVHQLLTR	NMT1; NMT1; NMT	P30419; A0A7I2V	NMT1_HUM/	Unmodified	1010300	1236800	1423800	0	0	0	0	0	0
DIQAVATSLLPLTEANLR	SHFL; SHFL	Q9NUL5; K7EML	SHFL_HUMA	Unmodified	387360	91161	285320	0	0	0	0	0	0
DIQEESTFSSR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Unmodified	1255200	1516600	1521100	0	0	0	0	53317	0
DIRDPNFCER	LAMB1; LAMB1; LA	P07942; A0A7I2V	LAMB1_HUM	Unmodified	0	0	303810	161550	0	115130	0	0	0
DIRDYNDADMAR	MESD; MESD	Q14696; H0YLJ4	MESD_HUM/	Oxidation (M);Deai	380500	371370	315950	21298	0	18777	0	0	0
DIREEAEKYAK	PSMA3; PSMA3; PSI	P25788; H0YJ03;	PSA3_HUMA	Unmodified	1978700	3019600	3778800	0	0	0	0	0	0
DIRPGAAFEPTYIYR	USP10; USP10	Q14694; J3KTJ9	UBP10_HUM	Unmodified	0	6229100	0	0	0	0	0	0	0
DISEMFLQIYK	MUC1; MUC1; MUC	P15941; A0A0C4	MUC1_HUM/	Oxidation (M)	1113400	582940	746530	0	0	0	0	0	0
DISGTSDPFAR	RASAL1	O95294	RASL1_HUM	Unmodified	1516200	1338000	1013900	0	0	0	0	0	0
DISMEIDSPENMMR	CCDC6	Q16204	CCDC6_HUM	3 Oxidation (M)	456620	630800	844220	20558	0	0	0	0	0
DISPVLKDPASFR	APRT; APRT; APRT;	P07741; H3BQF1;	APT_HUMAN	Unmodified	749380	721890	473160	0	0	0	0	0	0
DISTLNSGK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Deamidation (N)	1692700	1638100	1667400	157840	184970	0	0	0	0
DISTLNSGKK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	477840	579160	467680	141700	147480	147610	0	0	0
DISTLNSGKK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Deamidation (N)	1853600	1380200	1521000	390530	463810	575860	0	0	0
DISTNKVEQIPYGER	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Unmodified	1202000	1122000	1273700	0	103080	119510	0	0	0
DISTNKVEQIPYGER	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Deamidation (N)	1527600	1219800	1343000	0	0	0	0	0	0
DISTNYYASQK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Deamidation (N)	2209700	2755300	2916400	0	0	18641	0	0	0
DISTNYYASQK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Unmodified	3584800	2698800	3031300	135560	144240	0	0	0	29746
DISTNYYASQKK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Deamidation (N)	763440	611810	1031700	0	0	0	0	0	0
DISTNYYASQKK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Unmodified	1702800	2029200	1845700	116440	141020	64452	0	0	0
DITPLQVVLPNTALHLK	MVP; MVP; MVP	Q14764; H3BQK6	MVP_HUMA	Unmodified	455530	303320	403470	0	0	0	0	0	0
DITSDTSGDFR	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1_HUM	Unmodified	955570	1143400	627960	239290	231710	230540	0	0	0
DITSDTSGDFRNALLSLAK	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1_HUM	Unmodified	508760	494800	470380	0	0	0	0	0	0
DIVEELSALK	MKI67	P46013	KI67_HUMAN	Unmodified	1734200	883360	1502700	0	0	0	0	0	0
DIVENYFMR	TRIM28; TRIM28	Q13263; M0R2I3	TIF1B_HUMA	Oxidation (M);Deai	952110	1185500	1071300	40272	31924	46062	0	0	0
DIVENYFMR	TRIM28; TRIM28	Q13263; M0R2I3	TIF1B_HUMA	Oxidation (M)	5713000	5264300	3860600	115470	140970	145620	0	10071	0
DIVENYFMRDSGSK	TRIM28; TRIM28	Q13263; M0R2I3	TIF1B_HUMA	Oxidation (M)	1084400	221340	924500	0	0	0	0	0	0
DIVPGDIVEIAVGDKVPADIR	ATP2A2	P16615	AT2A2_HUM	Unmodified	640200	458270	532620	0	0	0	0	0	0
DIVQFVPFR	CPNE9; CPNE8; CPN	Q8IYJ1; Q86YQ8;	CPNE9_HUM	Unmodified	7552800	8382300	7116700	0	15612	16471	17207	0	12408
DIVQFVPYR	CPNE1; CPNE1; CPN	Q99829; H0Y524;	CPNE1_HUM	Unmodified	7375900	7931000	8685800	185080	148650	197550	0	0	28802
DIVQFVPYRR	CPNE1; CPNE1; CPN	Q99829; H0Y524;	CPNE1_HUM	Unmodified	15196000	13275000	12155000	334040	343520	338110	44451	44776	43029
DIVTPEAWR	ARID1B; ARID1B; A	Q8NFD5; A0A6Q8	ARI1B_HUM	Unmodified	0	1009400	687880	0	0	0	0	0	0
DIWPTRDEIQAVER	ACO1	P21399	ACOC_HUM/	Unmodified	812050	633300	611300	0	0	0	0	0	0
DIWVQEPESK	MAOA	P21397	AOFA_HUMA	Unmodified	2613800	2178900	2748300	0	0	0	0	0	0
DIYEILNIQK	N/A	N/A	N/A	Deamidation (N)	0	0	480890	37659	37598	29284	25356	29090	33586
DIYQDLNR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	1805200	3085000	2670700	0	0	0	0	9412.5	0
DKAKEEELR	KHDRBS2; KHDRBS	Q5VWX1; Q0766	KHDR2_HUM	Unmodified	1775700	1327400	1442200	53701	57805	0	0	0	0
DKAPVQPQQSPAAAPGGTDEKPSGK	PSMD2; PSMD2; PSI	Q13200; F8WBS8	PSMD2_HUM	Unmodified	0	2283700	0	0	0	0	0	0	0
DKEKEKTQMITINR	CCAR1; CCAR1; CC	Q8IX12; H0YFJ7;	CCAR1_HUM	3 Methyl (KR)	0	0	193420	0	0	0	0	0	0
DKEKKK	SNRPB2; LSM7; COI	P08579; Q9UK45;	RU2B_HUMA	Acetyl (Protein N-t	244870	5820000	852180	4939500	2992700	16288000	0	0	0
DKENALMPNWLHLPVGYHGR	FAH	P16930	FAAA_HUMA	Oxidation (M)	0	284550	319100	0	0	0	0	0	0
DKEVEFGGPAPR	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Unmodified	848320	1652200	1815300	114090	36184	45105	0	0	0
DKEWQEQFLPNLALIDK	NIPSNAP3A	Q9UFN0	NPS3A_HUM	Unmodified	319550	230960	186750	0	0	0	0	0	0
DKFQETSDEFEAAR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	1774700	1961800	1735800	0	0	0	0	0	0
DKFSFDLGKGEVIK	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4_HUM	Unmodified	1771900	2137300	1647400	0	0	0	0	0	0
DKFSPFPVQDRPESSLVFK	SRRM2	Q9UQ35	SRRM2_HUM	Unmodified	1852700	2286900	1297700	0	0	0	0	0	0
DKFSPFPVQDRPESSLVFKDTLR	SRRM2	Q9UQ35	SRRM2_HUM	Unmodified	0	0	4413600	0	0	0	0	0	0
DKGDEEEEGEEKLEEK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUMA	Unmodified	1059900	1081400	910520	0	0	0	0	0	0
DKGLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUMA	Unmodified	386640	348920	356000	0	91878	18766	0	0	0
DKHIEEVR	STMN1	P16949	STMN1_HUM	Unmodified	3668200	2376700	3501000	0	0	0	0	0	0
DKHIEEVRK	STMN1	P16949	STMN1_HUM	Unmodified	1549900	0	0	0	0	0	0	0	0
DKIIVNDRQLACAR	RTCB	Q9Y3I0	RTCB_HUMA	Deamidation (N)	428520	464200	0	0	0	0	0	0	0
DKLAQQQAAAAAAAAAAASQQGSAK	TBL1XR1; TBL1XR1	Q9BZK7; A0A0D9	TBL1R_HUM	Unmodified	0	638940	681980	0	0	0	0	0	0
DKLESEMEDAYHEHQANLLR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	Oxidation (M)	19440000	13685000	12443000	369810	247920	220610	0	0	0
DKLKSELVANNVTLPAGEQR	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B_HUM	Deamidation (N)	884470	990810	1209000	0	0	0	0	0	0
DKLKSELVANNVTLPAGEQRK	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B_HUM	Deamidation (N)	6173500	5914600	5400900	0	0	0	0	0	0
DKLPQPVQPDPVSHCK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUMA	Unmodified	2658800	3015300	4284000	59887	0	344270	0	0	0
DKLPQSQLSHQDLQLVK	RPS6KA1; RPS6KA1	O15418; Q5SVM7	KS6A1_HUM	Unmodified	753790	379870	0	0	0	0	0	0	0
DKLSELQLR	TMED9	Q9BVK6	TMED9_HUM	Unmodified	1992000	1764200	1630500	0	0	0	0	0	0
DKLSELQLRVRQLVEQVEQIQK	TMED9	Q9BVK6	TMED9_HUM	2 Methyl (KR)	166070	0	0	0	0	0	0	0	0
DKMEDIER	SMC3	Q9UQE7	SMC3_HUMA	Oxidation (M)	770610	514180	817770	0	420960	0	0	0	0
DKMMNGGHYTYSENRVEKDGLILTSR	PARK7; PARK7	Q99497; K7ELW(	PARK7_HUM	2 Oxidation (M);Dc	4248600	3630400	4119800	0	27614	0	0	0	0
DKMMNGGHYTYSENRVEKDGLILTSR	PARK7; PARK7	Q99497; K7ELW(	PARK7_HUM	2 Oxidation (M);2 1	2082500	3965500	4241600	0	32752	0	0	0	0
DKNTPSPFIETFTEDDEASR	GCLC; GCLC; GCLC	P48506; A0A2R8	GSH1_HUMA	Unmodified	431650	379630	0	18376	0	0	0	0	0
DKPHVNVGTIGHVDHGK	TUFM; TUFM	P49411; H3BNU3	EFTU_HUMA	Unmodified	1435500	6283100	6286300	0	0	0	0	0	0
DKPHVNVGTIGHVDHGKTTLTAAITK	TUFM; TUFM	P49411; H3BNU3	EFTU_HUMA	Unmodified	4054100	5756400	1715100	0	0	0	0	0	0
DKPIEMQLTSAK	ARMC8; ARMC8; AI	Q8IUR7; B7Z637;	ARMC8_HUM	Oxidation (M)	494740	446290	0	19848	0	0	18323	0	0

DKPLIIYKNGTSK	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	1903000	1811100	2210100	0	0	0	0	0	0
DKPLKDVIIADCGK	PPIB; PPIB; PPIB	P23284; A0A7P01	PPIB_HUMA	Unmodified	593500	555860	512050	0	0	0	0	0	0
DKPVTGEQIEVFANK	THOC1; THOC1	Q96FV9; A0A087	THOC1_HUM	Unmodified	1190700	1093600	936900	0	0	0	0	15698	0
DKQMELLENK	HTATIP2; HTATIP2	Q9BUP3; E9PI87	HTAI2_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
DKQPNAQPQYLHGSK	CYFIP1	Q7L576	CYFP1_HUM	Unmodified	1509500	772370	1447300	77949	92585	104920	0	0	0
DKQPYEQK	HMGB2	P26583	HMGB2_HUM	Unmodified	1678900	1346700	1966700	29874	0	0	0	0	0
DKRLVPGGGATEIELAK	CCT8	P50990	TCPQ_HUMA	Unmodified	0	0	0	273990	0	131900	0	0	0
DKRPLSGPDVGTPQPAGLASGAK	PAK4	O96013	PAK4_HUMA	Unmodified	2055600	2492800	787350	75648	86969	112140	0	0	0
DKSDSPAIQLR	SIN3A	Q96ST3	SIN3A_HUM	Unmodified	2471400	2966100	2267600	139980	0	170460	0	0	0
DKSFLAMVVDIVQELKQQNPR	PDXK; PDXK	O00764; F2Z2Y4	PDXK_HUM	Oxidation (M)	347480	0	133010	0	0	0	0	0	0
DKTSPFELYQFFVR	YARS2; YARS2	Q9Y2Z4; H0YHS6	SYYM_HUM	Unmodified	0	0	295480	0	0	0	0	0	0
DKVAGHSLGYGFVNYVTAK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1_HUM	Deamidation (N)	1327000	1364700	1031100	0	10554	0	0	0	0
DKVAGHSLGYGFVNYVTAK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1_HUM	Unmodified	281640	4157700	2590300	0	0	0	0	0	0
DKVAGHSLGYGFVNYVTAKDAER	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1_HUM	Deamidation (N)	2198600	0	0	0	0	0	0	0	0
DKVMPLIIQGFK	SEPHS1; SEPHS1; SE	P49903; Q5T5U6;	SPS1_HUMA	Oxidation (M)	771340	0	747100	0	0	0	0	0	0
DKVQAGDVITIDK	RUVBL2; RUVBL2	Q9Y230; M0R0Y7	RUVB2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
DKVQAGDVITIDKATGK	RUVBL2; RUVBL2	Q9Y230; M0R0Y7	RUVB2_HUM	Unmodified	0	740440	789070	0	0	0	0	0	0
DKVSSKNSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);2 De	645280	413180	541930	0	52201	0	0	0	0
DKVSSKNSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deam	0	615670	0	0	0	47923	0	0	0
DKWLAPDGLIFPDR	PRMT1; PRMT1; PR	Q99873; E9PKG1	ANM1_HUM	Unmodified	3839500	3347600	3715200	0	0	0	0	0	0
DKWSNFDPTGLER	ATAD3A; ATAD3B;	Q9NVI7; Q5T9A4	ATD3A_HUM	Unmodified	874010	817430	652630	32031	42449	29795	8562.2	0	0
DKWSNFDPTGLER	ATAD3A; ATAD3B;	Q9NVI7; Q5T9A4	ATD3A_HUM	Deamidation (N)	460060	479140	455270	0	15286	0	0	0	0
DKYGPPVR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6_HUM	Unmodified	1228100	1932000	1262400	98371	0	102940	0	0	0
DLAAFDKSHDQAVR	LTA4H	P09960	LKHA4_HUM	Unmodified	1159100	2117000	2465800	72836	112070	87602	0	0	0
DLAALGDKVNSLGETAER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Deamidation (N)	6055300	3876800	5869400	259050	199450	0	0	0	0
DLAALGDKVNSLGETAER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1567600	1339200	648100	0	0	0	0	0	0
DLADELALVDVIEDK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA_HUM	Unmodified	229680	45544	106420	14247	16862	0	0	14455	0
DLADIAAFFR	TRIO	O75962	TRIO_HUMA	Unmodified	73071	0	0	0	0	0	0	0	0
DLAEDAPWK	FLNC; FLNB; FLNA;	Q14315; O75369;	FLNC_HUMA	Unmodified	984100	365820	1043500	70388	64165	62252	0	0	0
DLAEITTLDR	ERP44	Q9BS26	ERP44_HUM	Unmodified	5076100	3295200	3269900	370130	317340	340000	0	0	0
DLAEKNLDLLLPISK	N/A	N/A	N/A	Unmodified	5150200	8407700	8479500	0	0	0	0	0	0
DLAGSIIGK	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUM	Unmodified	117570000	102390000	84555000	906600	900810	956220	58709	46333	61008
DLAGSIIGKGGQR	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUM	Methyl (KR)	2412000	2245500	2205200	0	0	0	0	0	0
DLAGSIIGKGGQR	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUM	Unmodified	1552300	1623400	1327300	104770	108800	144820	11454	14354	12570
DLAILQCHGELDPMVPVR	LYPLA2; LYPLA2; L	O95372; Q5QPQ0	LYPA2_HUM	Oxidation (M)	760830	1314300	1609300	0	0	0	0	0	0
DLAKDITSDTSGDFR	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1_HUM	Unmodified	633340	332650	803970	0	0	0	12722	0	0
DLALAIRDSER	CAPG; CAPG; CAPG	P40121; E7ENU9;	CAPG_HUMA	Unmodified	2205100	1169300	1603100	0	0	24080	31124	0	20856
DLALVNDQLLGFVR	PDS5A	Q29RF7	PDS5A_HUM	Unmodified	654870	337570	614440	0	0	0	0	0	0
DLAMVASDMMVLLK	SCPEP1; SCPEP1	Q9HB40; I3L4Z3	RISC_HUMA	3 Oxidation (M)	0	415710	338820	0	0	0	0	0	0
DLAPIGIR	HSD17B10	Q99714	HCD2_HUMA	Unmodified	13138000	13634000	10226000	337410	275570	330600	21297	25730	22810
DLAPYLPSVTPGLK	GCN1	Q92616	GCN1_HUMA	Unmodified	935530	1006100	645780	0	0	0	0	0	0
DLAQDEAVWLER	MPG; MPG	P29372; A2IDA3	3MG_HUMA	Unmodified	645040	741550	1007300	0	0	0	0	0	0
DLAQYDAAHHEEFKR	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1_HUM	Unmodified	1568900	1170400	1534300	0	0	0	0	0	0
DLASVQALLR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	2584500	2307700	2976100	65191	31971	21902	0	0	0
DLASVSLKNPVR	DDX27; DDX27; DD	Q96GQ7; B7Z6D5	DDX27_HUM	Methyl (KR)	471080	550010	358220	2976800	2788900	2558300	2403800	2701600	2205300
DLATDLSLIEVK	MAP2; MAP2	P11137; A0A6698	MTAP2_HUM	Unmodified	1332800	985100	1352300	0	0	0	0	0	0
DLATKINEKPQVIADYESGR	EDF1	O60869	EDF1_HUMA	Deamidation (N)	1226400	1452600	1152900	0	20442	22507	0	0	0
DLAVENPVKYQGLGR	BCS1L; BCS1L; BCS	Q9Y276; H7C492	BCS1_HUMA	Unmodified	522600	1767900	593590	18355	17424	0	0	0	0
DLAVPAALTPR	NUP210	Q8TEM1	PO210_HUM	Unmodified	2934900	3271300	2259800	244680	242880	197130	20718	0	17706
DLDDFQSWLSR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	856560	677130	1301000	0	0	0	0	0	0
DLDELDKDHLQLR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	1057600	596470	773090	0	0	0	0	0	0
DLDELSR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	7531800	6481100	8209200	91711	48769	111750	0	0	0
DLDELSRYPEDKITPENLPQILLQLKR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	2963400	96932	1059500	0	0	0	0	0	0
DLDESSGVR	KCMF1; KCMF1	Q9P0J7; C9J3I2	KCMF1_HUM	Unmodified	2781000	2355700	3281400	80891	106080	92260	0	0	0
DLDIFDR	MLEC; MLEC; MLEI	Q14165; H0YG07	MLEC_HUM	Unmodified	476630	656180	544870	18656	18737	26501	0	0	0
DLDIIDNYDYSHTVK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	0	299650	0	45101	48245	36204	15444	0	15414
DLDPEREVTFLEASR	RAB4B; RAB4B	P61018; M0R0X1	RAB4B_HUM	Unmodified	0	463150	311270	0	0	0	0	0	0
DLDQASLAAVSQQLAPR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	3316300	0	5821400	18303	11155	0	0	0	0
DLDRIAGQVAAANK	RPS19; RPS19	P39019; A0A075	RS19_HUMA	Unmodified	689420	0	903500	33887	17849	25243	0	0	0
DLDRIAGQVAAANKKH	RPS19; RPS19	P39019; A0A075	RS19_HUMA	Deamidation (N)	1557900	3247600	6929300	76136	64639	0	0	0	0
DLDRIAGQVAAANKKH	RPS19; RPS19	P39019; A0A075	RS19_HUMA	Unmodified	1249900	1439100	913310	0	0	0	0	0	0
DLDVTIPSKDVVMVHEPK	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A_HUM	Oxidation (M)	719740	500880	510960	0	0	0	0	0	0
DLEAEHVEVEDTTLNR	BOLA2; BOLA2B; B	Q9H3K6; H3BV8	BOLA2_HUM	Unmodified	5980700	5507300	5799200	249860	195890	287060	0	0	0
DLEAEHVEVEDTTLNR	BOLA2; BOLA2B; B	Q9H3K6; H3BV8	BOLA2_HUM	Deamidation (N)	494330	0	737920	0	0	13671	0	0	0
DLEAHIDSANK	MYH9	P35579	MYH9_HUM	Unmodified	435240	0	418690	0	0	0	0	0	0
DLEALMFDR	PGM1; PGM1	P36871; A0A3B3	PGM1_HUMA	Oxidation (M)	3980800	4225300	3736600	57018	125190	145650	0	0	0
DLEAPEVQESYR	BAG6; BAG6; BAG6	P46379; A0A024	BAG6_HUMA	Unmodified	823960	482530	857840	0	53844	35674	0	26134	0
DLEASIAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1529800	3529900	2030300	0	22080	22278	0	0	0
DLEDKEGEIQAGAK	DYNC1I2; DYNC1I2	Q13409; E7EQL5	DC1I2_HUM	Unmodified	1470700	1957100	1825700	0	0	0	0	0	0
DLEDLFYK	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9_HUM	Unmodified	689060	792330	433180	0	17550	13917	0	0	0
DLEDSLAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	3750900	2336700	1343400	0	0	19863	0	0	0
DLEEAEGR	ALDH18A1	P54886	P5CS_HUMA	Unmodified	1206500	1346300	1751000	39590	25980	47789	0	0	0
DLEEDHACIPIK	EEF2	P13639	EF2_HUMAN	Unmodified	1040600	1252700	1227500	0	0	0	0	0	0
DLEEFFSTVGK	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	13124000	13829000	17511000	0	38302	0	14066	14758	15322
DLEEFFSTVGKVR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	1100200	2068800	1048600	0	0	0	0	0	0
DLEEWNQR	CLTB	P09497	CLCB_HUMA	Unmodified	0	0	996190	0	0	0	0	0	0
DLEGAVSR	PNN; PNN; PNN	Q9H307; G3V5F0	PININ_HUMA	Unmodified	7760300	8198100	10255000	0	511240	0	0	0	0
DLEGLSQR	MYH9	P35579	MYH9_HUM	Unmodified	4917600	2320000	3960800	52581	49080	51075	0	0	0
DLEGSDIDTR	CSE1L	P55060	XPO2_HUMA	Unmodified	6952600	4656400	6846500	506660	0	197270	0	0	0
DLEKDIR	ANXA7	P20073	ANXA7_HUM	Unmodified	0	0	0	88057	0	0	0	0	0
DLEKPFLLPVEAVYSVPGR	TUFM	P49411	EFTU_HUMA	Unmodified	54072000	51841000	54685000	30402	0	20364	0	0	0
DLEKPFLLPVEAVYSVPGR	TUFM	P49411	EFTU_HUMA	Methyl (KR)	983860	711860	1318600	0	0	0	0	0	0
DLELPLSPSLLGGPGPER	ELK1	P19419	ELK1_HUMA	Unmodified	572310	456110	725770	0	0	0	0	0	0
DLENLGLTHLIGSPFLR	NOL10	Q9BSC4	NOL10_HUM	Unmodified	518310	236300	0	0	0	0	0	0	0
DLEQAISQR	RELA; RELA; RELA	Q04206; A0A087	TF65_HUMA	Unmodified	963570	864540	1253600	58182	71299	73791	0	0	0
DLEQPTYR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1_HUMAN	Unmodified	0	0	341040	140920	111520	94385	0	0	0
DLERERDYPFYER	RBM15; RBM15; RB	Q96T37; A0A494	RBM15_HUM	Unmodified	946020	1262100	1388200	0	133730	267070	21722	0	18798
DLESLREYVESQLQR	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	1843700	0	1173700	0	0	0	0	0	0
DLEWVER	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2_HUMA	Unmodified	859400	830200	839030	27397	19242	26275	0	0	0
DLFALAR	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	1077300	30647	0	0	0	0	0	0	0
DLFDFSTR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18_HUM	Unmodified	2131800	2550500	2155100	63921	80360	59013	0	0	0
DLFDPIIEDR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Unmodified	7746500	21105000	18917000	10099	0	23963	0	14139	0
DLFEDELVPLFEK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	1482100	510230	1458500	0	0	0	0	0	0
DLFHGATFVPR	MRPL38	Q96DV4	RM38_HUMA	Unmodified	4544000	0	4935300	0	0	0	0	0	0
DLFPYEESK	HDGF	P51858	HDGF_HUMA	Unmodified	2804100	1760000	2436900	127500	79001	112190	0	0	0
DLFPYEESKEK	HDGF	P51858	HDGF_HUMA	Unmodified	4940000	4457700	4129400	390190	288120	325530	0	0	0
DLGEELEALK	MYH9; MYH11	P35579; P35749	MYH9_HUM	Unmodified	1651800	1522200	1816900	40476	29362	0	0	0	0
DLGEGEEGELAPPEDLLGRPQALSR	RETREG2; RETREG	Q8NC44; H7C3D5	RETR2_HUM	Unmodified	0	1842500	2971500	0	0	0	0	0	0
DLGELLQAWGAGAK	CCDC22	O60826	CCD22_HUM	Unmodified	94292	410490	467150	0	0	0	0	0	0
DLGFNGAPYR	SUPT16H	Q9Y5B9	SP16H_HUM	Deamidation (N)	4824100	5373200	3612000	0	23511	16898	0	0	0
DLGKFQVATDALK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	2910000	2910000	2746300	98427	152560	121770	0	0	0
DLGLDPGK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	3641600	4678700	4742900	0	0	0	0	0	0
DLGLSESGEDVNAAILDESGKK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Unmodified	1385500	1771500	2127500	42168	0	0	0	0	0
DLGVFIPAPMAQGMR	EIF4G2; EIF4G2; EIF	P78344; H0YCH5	IF4G2_HUMA	2 Oxidation (M)	547230	342170	478040	53649	43931	49294	0	0	0
DLHESSFSLSGSQIDDHVPKR	DPYSL5	Q9BPU6	DPYL5_HUM	Unmodified	1512100	872630	1370300	0	0	0	0	0	0
DLIDFDDR	DSP	P15924	DESP_HUMA	Unmodified	3247600	2575500	2771600	45809	69726	68074	0	0	0
DLIDFDDRQQIYAAEK	DSP	P15924	DESP_HUMA	Unmodified	3879500	3305100	3389400	0	0	0	0	0	0
DLIGPALPPGFK	GPALPP1; GPALPP1	Q8IXQ4; A0A0A0	GPAM1_HUM	Unmodified	3208900	4618100	0	0	0	0	0	0	0
DLIGVQNLLK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1111500	838310	935680	14653	13442	12360	0	0	0
DLIHDQDEDEEEEEGQR	NSFL1C; NSFL1C; N	Q9UNZ2; R4GNE	NSF1C_HUM	Unmodified	1141100	1773500	1504900	0	0	0	0	0	0
DLIHDQDEDEEEEEGQRFYAGGSER	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Unmodified	2023000	3088200	1664000	0	0	0	0	0	0
DLILNPR	SF3B3	Q15393	SF3B3_HUM	Unmodified	1687900	1620400	1684500	0	0	25163	0	0	0
DLIQGLLTVDPNKR	RPS6KA5	O75582	KS6A5_HUM	Unmodified	0	669230	494710	0	0	0	0	0	0
DLISHDEMFSDIYK	TPT1; TPT1; TPT1	P13693; A0A0B4	TCTP_HUMA	Oxidation (M)	8300900	8917100	11658000	15638	17235	0	0	22688	0
DLISNSPR	POLR2C	P19387	RPB3_HUMA	Unmodified	0	965410	0	0	0	0	0	0	0
DLKEVTPEGLQMVK	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Oxidation (M)	1169800	2486900	2281200	0	0	0	0	0	0
DLKPQNLLIDDKGTIK	CDK1; CDK1; CDK1	P06493; A0A024	CDK1_HUMA	Unmodified	2971300	3006000	3220400	0	0	0	0	0	0
DLKPSNIFLVDTK	EIF2AK2; EIF2AK2;	P19525; A0A7P0	E2AK2_HUM	Unmodified	2609800	1059000	1299900	0	0	0	0	0	0
DLKPSNILYVDESGNPESIR	RPS6KA3; RPS6KA3	P51812; B7ZB17;	KS6A3_HUM	Unmodified	683960	0	725240	0	0	0	0	0	0
DLLFQALGR	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	7508900	8683600	8489800	0	0	96901	21860	25741	0
DLLHPSPEEEKR	RPS27	P42677	RS27_HUMA	Unmodified	1201000	0	1052600	51766	54948	0	0	0	0
DLLHPSPEEEKRK	RPS27	P42677	RS27_HUMA	Unmodified	1024800	848600	788800	85703	0	0	0	0	0
DLLPSDMAVALLEAQAGTGHIIDPATSAR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	744970	0	532230	0	0	0	0	0	0
DLLQNLLK	CDK5	Q00535	CDK5_HUMA	Unmodified	291750	301860	372690	0	0	0	0	0	0
DLLSSVSR	ANXA7	P20073	ANXA7_HUM	Unmodified	4708500	4539300	4609600	108110	91545	57340	0	0	0
DLMACAQTGSGK	DDX3X; DDX3Y; DE	O00571; O15523;	DDX3X_HUM	Oxidation (M)	0	1138600	1175200	0	0	0	0	0	0
DLMVGDEASELR	ACTR2	P61160	ARP2_HUMA	Oxidation (M)	2100900	3015300	2403200	162240	153340	138400	0	0	0
DLNLGEMK	PDCD4; PDCD4	Q53EL6; Q5VZS7	PDCD4_HUM	Oxidation (M)	953840	1275700	0	0	0	42772	0	0	0
DLNYCFSGMSDHR	HNRNPH1; HNRNPH	P31943; P55795; I	HNRH1_HUM	Oxidation (M)	1994000	2507100	0	108830	92359	201220	0	0	21962
DLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	18499000	19371000	21074000	1609700	1807500	1771300	0	0	0
DLPELALDTPR	PDCD4	Q53EL6	PDCD4_HUM	Unmodified	1548000	1338700	1933900	0	0	26361	0	0	0
DLPGALDEKELIEK	ARL8A	Q96BM9	ARL8A_HUM	Unmodified	1750400	1606400	2085600	103510	0	89101	0	12820	14660

DLPIPLITYDAYPK	CHN1; CHN1; CHN1	P15882; A0A494(	CHIN_HUMA	Unmodified	109190	93344	145890	0	0	0	0	0	0
DLPLAQGIK	ALDH7A1; ALDH7A	P49419; A0A1B0(	AL7A1_HUM	Unmodified	1221000	948220	1109700	0	67388	89765	0	0	0
DLPLLLFR	PHGDH; PHGDH; PH	O43175; A0A2C9(	SERA_HUMA	Unmodified	31666000	34354000	29466000	0	0	90086	46853	0	0
DLPNALDEK	ARL8B	Q9NVJ2	ARL8B_HUM	Unmodified	842550	1352800	874680	0	0	99453	0	0	0
DLPNALDEKQLIEK	ARL8B	Q9NVJ2	ARL8B_HUM	Unmodified	591210	616040	569680	30513	0	23525	0	0	0
DLPPVSGSIIWAK	DYNC1H1; DYNC1H	Q14204; A0A7P0'	DYHC1_HUM	Unmodified	2424400	1473500	1742900	14567	10064	0	0	0	0
DLPQDPVELAMFGLR	ECSIT; ECSIT; ECSI	Q9BQ95; K7EJG5	ECSIT_HUM/	Oxidation (M)	0	2399700	3602600	0	0	0	0	0	0
DLPRPSEVNETILRPLNVEPPLTDLQK	CDC5L	Q99459	CDC5L_HUM	Unmodified	1921600	1636600	0	0	0	0	0	0	0
DLPSADSVQYR	NUP205	Q92621	NU205_HUM	Unmodified	974080	1050500	453800	0	0	0	0	0	0
DLPSAGEEILEVESEPR	MTIF2	P46199	IF2M_HUMA	Unmodified	1463300	1060800	1147000	0	0	0	0	0	0
DLPTIPGVTSPSSDEPPMEASQSHLR	EIF4EBP1	Q13541	4EBP1_HUM/	Oxidation (M)	2141600	2816100	0	0	0	0	0	0	0
DLPVSEQQER	PSMD13; PSMD13; I	Q9UNM6; A0A08	PSD13_HUM/	Unmodified	1019300	0	0	0	0	0	0	0	0
DLPVTEAVFSALVTGHAR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Unmodified	16794000	15258000	20199000	0	0	0	0	0	0
DLQGLTVEHAIDSFR	SART1	O43290	SNUT1_HUM	Unmodified	2252100	116560	2843200	0	0	0	0	0	0
DLQGRDEQSEEK	MYH9	P35579	MYH9_HUM/	Unmodified	433980	376570	506160	48129	48105	48118	0	0	0
DLQHPNEFIR	COPB1; COPB1; COI	P53618; E9PP73;	COPB_HUMA	Unmodified	1143500	772860	729380	0	0	0	0	0	0
DLQMVNISLR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Oxidation (M)	2766000	2410700	0	91490	105310	102720	0	38451	0
DLQNVNITLR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	2046600	1376000	1381600	0	0	21944	11671	0	0
DLQPFPTCQALVYR	BOP1	Q14137	BOP1_HUMA	Unmodified	0	288670	269790	0	0	0	0	0	0
DLQQSIAR	PDCD6IP	Q8WUM4	PDC6I_HUM/	Unmodified	1098900	1319700	1079200	0	28798	0	0	0	0
DLQQYQSQAK	SEC22B	O75396	SC22B_HUM	Unmodified	2498700	2259200	2234500	200190	116190	169920	0	0	0
DLQSNVEHLTEK	PFKP; PFKP; PFKP	Q01813; A0A72V	PFKAP_HUM	Unmodified	5415900	3285800	3527500	0	0	0	0	0	0
DLQSSDR	G6PD; G6PD; G6PD;	P11413; E7EM57;	G6PD_HUMA	Unmodified	565690	0	732210	10468	11719	23480	0	0	0
DLREVFSK	TRA2B	P62995	TRA2B_HUM	Unmodified	1266900	1217100	1276100	0	0	45891	0	0	0
DLRGQVPGGER	MCRIP1; MCRIP1; S	C9JLW8; I3L2L5;	MCRI1_HUM	Unmodified	716170	616050	931490	0	0	0	0	0	0
DLSAAGIGLLAAATQSLSMPASLGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Oxidation (M)	753420	0	418880	0	0	0	0	0	0
DLSDLDFR	RBM6; RBM6; RBM	P78332; F8WCA5	RBM6_HUM/	Unmodified	543080	382640	502640	20968	21823	25650	0	0	0
DLSELGSVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1796400	0	0	119100	111930	146270	0	0	0
DLSGLDAETLLK	PTPN6; PTPN6; PTP	P29350; U3KQS1;	PTN6_HUMA	Unmodified	1558500	1070000	1443000	0	0	0	0	0	0
DLSHIGDAVVISCAK	PCNA	P12004	PCNA_HUM/	Unmodified	3826200	3445100	2830300	0	0	0	0	0	0
DLSKPIGALNPK	NBEA; LRBA; LRBA	Q8NFP9; P50851;	NBEA_HUM/	Unmodified	1441300	1341900	1107200	0	106340	0	0	0	0
DLSLEEIQK	STMN1; STMN2; ST	P16949; Q93045;	STMN1_HUM	Unmodified	41543000	48434000	40589000	76413	73060	84200	0	0	0
DLSLEEIQKK	STMN1; STMN2; ST	P16949; Q93045;	STMN1_HUM	Unmodified	4117300	4932800	3694600	0	0	0	0	0	0
DLSLEEIQKKLEAAEER	STMN1; STMN2; ST	P16949; Q93045;	STMN1_HUM	Unmodified	49169000	58110000	64016000	0	0	0	0	0	0
DLSLEEIQKKLEAAEER	STMN1; STMN2; ST	P16949; Q93045;	STMN1_HUM	Methyl (KR)	8141000	14426000	16304000	0	0	0	0	0	0
DLSLEEIQKKLEAAEERR	STMN1; STMN2; ST	P16949; Q93045;	STMN1_HUM	Unmodified	11307000	10775000	11739000	0	0	0	0	0	0
DLSLLQIQMR	NAA16; NAA15; NA	Q6N069; Q9BXJ9	NAA16_HUM	Oxidation (M)	0	1812700	1613000	0	0	0	0	0	0
DLSLPPVDR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA_HUMAN	Unmodified	596910	778350	714240	0	0	0	0	0	0
DLSLVPER	TBCC	Q15814	TBCC_HUM/	Unmodified	1542600	1222300	991640	11381	50299	41787	0	0	0
DLSMSEEDQMMR	HUWE1	Q7Z6Z7	HUWE1_HUM	3 Oxidation (M)	2145200	1573000	1545400	120540	126000	110850	0	0	0
DLSQLQENLK	CCAR1	Q8IX12	CCAR1_HUM	Unmodified	1097500	787230	896830	17957	28518	0	0	0	0
DLSQQIR	TPR	P12270	TPR_HUMAN	Unmodified	0	1251900	1259800	47863	60818	50795	0	0	6599
DLSSHQLNEFLAQTLQR	LTA4H	P09960	LKHA4_HUM	Unmodified	1825200	1361300	1039600	0	0	0	0	0	0
DLSSHQLNEFLAQTLQR	LTA4H	P09960	LKHA4_HUM	Deamidation (N)	323670	0	196540	0	0	0	0	0	0
DLSSVQTLLTK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	3628900	0	2186800	42590	30902	0	0	0	0
DLSTIEPLK	ANP32A; ANP32C; A	P39687; O43423;	AN32A_HUM	Unmodified	2681300	2678500	2337900	20708	140740	0	0	0	0
DLSTVEALQNLK	ANP32E; ANP32E	Q9BTT0; E9PPH5	AN32E_HUM	Unmodified	389060	430160	508710	0	0	0	0	0	0
DLTDYLMK	ACTG1; ACTC1; AC	P63261; P68032; I	ACTG_HUM/	Oxidation (M)	88757000	80073000	69827000	124030	95671	153410	160660	0	0
DLTDYLMKILTER	ACTG1; ACTC1; AC	P63261; P68032; I	ACTG_HUM/	Oxidation (M)	12701000	2164100	8704700	0	0	0	0	0	0
DLTDYLMKILTER	ACTG1; ACTC1; AC	P63261; P68032; I	ACTG_HUM/	Oxidation (M);Met	3240200	184030	2739700	0	0	0	0	0	0
DLTDYLMKILTERGYSFTTTAER	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG_HUM/	Oxidation (M)	107720	0	0	0	0	0	0	0	0
DLTELVQR	FUT8; FUT8; FUT8	Q9BYC5; A0A66	FUT8_HUMA	Unmodified	398440	403690	0	0	0	0	0	0	0
DLTEYLK	PDS5B; PDS5A	Q9NTI5; Q29RF7	PDS5B_HUM	Unmodified	2563700	1335400	1894700	20211	21200	17714	0	0	0
DLTEYLSR	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	15906000	10534000	10547000	257400	280470	251920	0	12294	11687
DLTGQVPTPVVK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Unmodified	1622000	1600700	2002600	171110	183780	155430	0	0	0
DLTGVQNLR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1531700	1880200	1789400	182310	153700	0	0	0	0
DLTLEENQVK	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A_HUM	Unmodified	2212000	1722900	1629700	0	0	0	0	0	0
DLTNVQNLQK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1139500	627060	1022900	0	0	0	0	0	0
DLTPEQAAER	GALT	P07902	GALT_HUMA	Unmodified	1213000	0	0	0	0	0	0	0	0
DLTQEQTEK	FAF2	Q96CS3	FAF2_HUMA	Unmodified	734540	0	1154200	0	0	0	0	0	0
DLTSQFLK	NIBAN1	Q9BZQ8	NIBA1_HUM	Unmodified	2453800	2094400	2108900	143540	130410	107810	0	0	17323
DLTSWVTEMK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	697030	824530	503020	0	0	0	0	0	0
DLTTAGAVTQCYR	RPL18A; RPL18A; R	O02543; M0R0P7	RL18A_HUM	Unmodified	2959200	2176800	2774100	0	171820	0	0	0	0
DLVAIEAK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	3470900	3229500	2359200	295250	211710	310830	0	0	0
DLVPDLSNFYAQYK	SDHB; SDHB; SDHB	P21912; A0A087	SDHB_HUMA	Unmodified	254710	196170	198900	0	0	0	0	0	0
DLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUM/	Oxidation (M)	0	0	0	0	0	0	117790	53778	49662
DLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; /	ACTG_HUM/	Oxidation (M);Deai	96187000	83959000	99708000	502360	100850	273290	88785	31621	31135
DLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG_HUM/	Oxidation (M)	112170000	108820000	97166000	1337400	813490	619630	929220	611600	0
DLYANTVLSGGTTMYPGIADRMQK	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG_HUM/	2 Oxidation (M);De	6199100	3965800	871410	106750	75472	0	0	28969	0
DLYANTVLSGGTTMYPGIADRMQK	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG_HUM/	2 Oxidation (M)	9445700	11153000	11171000	0	0	0	0	0	49664
DLYANTVLSGGTTMYPGIADRMQKEITALAPSTMK	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG_HUM/	3 Oxidation (M)	2788200	2613900	2750000	0	0	0	0	0	0
DLYDAGVK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Unmodified	2473000	2657600	2445600	1809000	1791500	1694500	0	0	0
DLYDAGVKR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Unmodified	377990	415800	568090	591790	483180	690830	0	0	0
DLYEDELVPLFEK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	10918000	9747800	9482200	0	0	0	0	0	0
DLYIDRPLPYLIGSK	WASHC2A; WASHC	Q641Q2; Q9Y4E1	WAC2A_HUM	Unmodified	1502600	1774700	1727000	0	0	0	0	0	0
DLYLENPEIK	TGM2	P21980	TGM2_HUM/	Unmodified	0	0	0	173670	0	170070	0	0	0
DMAGAQAAAVALNEEFLR	DSG2	Q14126	DSG2_HUMA	Oxidation (M)	1158300	924490	629560	0	0	0	0	0	0
DMDLYSYR	ALDH6A1	Q02252	MMSA_HUM	Oxidation (M)	1430400	0	1640800	108740	158420	184850	0	0	0
DMEDPTPVPNIEEVVLPK	SMARCC1	Q92922	SMRC1_HUM	Oxidation (M)	732600	767930	1553400	0	0	0	0	0	0
DMFEEALR	MCM4; MCM4; MC3	P33991; A0A3B3I	MCM4_HUM/	Oxidation (M)	2688300	1173700	2520200	0	0	0	0	0	0
DMFPGPYPR	NDUFB8; N/A; NDU	O95169; E9PQ68;	NDUB8_HUM	Oxidation (M)	0	1308800	0	0	0	0	0	0	0
DMGEMVTQGQTDAQYMFLR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	3 Oxidation (M)	1327500	1510300	1377900	0	0	0	0	0	0
DMIILPEMVGSMVGVYNGK	RPS15; RPS15; RPS1	P62841; K7EM56	RS15_HUMA	3 Oxidation (M);De	2130700	2200400	3042300	0	0	0	0	0	0
DMLFQVLALEEPNVR	SPR	P35270	SPRE_HUMA	Oxidation (M)	634110	546600	778450	0	0	0	0	0	0
DMLGGNGISDEYHVIR	GCDH; GCDH; GCDI	Q92947; K7ESA6	GCDH_HUM/	Oxidation (M);Deai	9802700	11569000	10846000	244740	312030	313000	0	0	0
DMMSEIDRDGNGTVDFPEFLGMMAR	CALML3	P27482	CALL3_HUM	4 Oxidation (M);De	10140000	9374800	9372200	0	0	0	0	0	0
DMNQPSSSFFSISPTSNSSATIAR	STAU2; STAU2; STA	Q9NUL3; E5RJN7	STAU2_HUM	Oxidation (M);Deai	376700	597520	422430	0	0	0	0	0	0
DMQGLSLDAASQPSKGGLLER	MVB12A; MVB12A;	Q96EY5; M0QZK	MB12A_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
DMRQTVAVGVIK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM/	Oxidation (M)	5391200	5311400	6677400	201690	188760	36120	12350	0	0
DMTLPPETNVILTKDK	MAP4; MAP4	P27816; E7EVA0	MAP4_HUM/	Oxidation (M)	0	0	0	99359	93185	0	26270	0	0
DMTMFVTASK	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7I2V	EIF3I_HUMA	2 Oxidation (M)	963770	529840	776260	0	0	0	0	0	0
DMTMFVTASKDNTAK	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7I2V	EIF3I_HUMA	2 Oxidation (M)	703780	783650	1140600	31082	42641	0	0	0	0
DMVGIAQTGSGK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Oxidation (M)	2912800	3052700	3213800	44960	0	52004	0	0	0
DMVTELFDPLVQGEVQHR	GON7	Q9BXV9	GON7_HUMA	Oxidation (M)	655280	642670	964760	0	0	0	0	0	0
DNAGQVTLVPEEPEDMWHTYNLVQVGDSLR	PELO	Q9BRX2	PELO_HUMA	Unmodified	1221800	1480600	0	460140	445710	493520	0	0	164000
DNALLAQLIQDKLDAYK	STXBP1; STXBP1; S	P61764; A0A1B0(	STXB1_HUM	Unmodified	319720	0	102500	0	0	0	0	0	0
DNAMSEHLR	BIRC3; BIRC3	Q13489; A0A669	BIRC3_HUM/	Oxidation (M)	0	0	0	189600	272700	266120	0	0	0
DNFTLIPEGTNGTEER	DPYSL2; DPYSL2	Q16555; A0A1C7(	DPYL2_HUM	Deamidation (N)	910230	0	0	0	0	0	0	0	0
DNGIRPSSLEQMAK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB_HUMA	Oxidation (M);Deai	6147800	6002900	5072400	105960	108870	43744	0	0	0
DNHLLGTFDLTGIPPAPR	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Unmodified	6124600	5249200	6563100	25111	0	13598	17938	0	0
DNHLLGTFDLTGIPPAPR	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Deamidation (N)	5464400	3181500	3585400	0	0	0	0	0	0
DNIQGITK	H4C7; H4C1	Q99525; P62805	H4G_HUMAN	Unmodified	17145000	17490000	18911000	490360	581640	446710	0	0	0
DNIQGITKPAIR	H4C1	P62805	H4_HUMAN	1 Unmodified	351840000	315350000	349560000	7373700	7960300	9619800	348990	91682	495590
DNIQGITKPAIR	H4C1	P62805	H4_HUMAN	1 Deamidation (N)	25229000	17733000	20450000	459420	524830	353390	0	0	0
DNIQGITKPAIR	H4C1	P62805	H4_HUMAN	1 Methyl (KR)	7414200	7201800	7003600	79986	68696	68155	0	0	0
DNKQAGVFEPTIVK	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA_HUMA	Unmodified	2074600	0	1881200	0	0	0	0	0	0
DNLAEDIMR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Oxidation (M)	1580200	648570	1715300	549050	575050	589880	0	0	0
DNLAEDIMRLR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Oxidation (M)	344040	0	631670	53718	0	40819	0	0	0
DNLEFFLAGIGR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	404930	270170	306260	0	0	0	0	0	0
DNLFEIVTTSR	PLEKHA1; PLEKHA	Q9HB21; Q5RGS(	PKHA1_HUM	Unmodified	695570	684400	962670	0	0	0	0	0	0
DNLKGLEELERK	SERPINB12	Q96P63	SPB12_HUM	Unmodified	1373100	1000300	906860	0	0	0	0	0	0
DNLTLWTSDMQGDGEEQNK	YWHAE	P62258	1433E_HUM	Oxidation (M)	2531500	3762800	925960	0	0	0	0	0	0
DNLTLWTSDMQGDGEEQNKEALQDVEDENQ	YWHAE	P62258	1433E_HUM	Oxidation (M)	1895600	934980	0	0	0	0	0	0	0
DNNLLGR	HSPA1L; HSPA6; HS	P34931; P17066; I	HS71L_HUM	2 Deamidation (N)	290930	397400	553260	0	0	0	0	0	0
DNNLLGR	HSPA1L; HSPA6; HS	P34931; P17066; I	HS71L_HUM	Deamidation (N)	0	620350	0	0	0	0	0	0	0
DNPGVVTCLDEAR	UBA1; UBA1; UBA1	P22314; Q5JRS0;	UBA1_HUMA	Unmodified	3079000	2981300	2743500	183840	212570	216140	0	0	0
DNPKPNVSEALR	MRPS36	P82909	RT36_HUMA	Unmodified	3536100	2907400	4591600	80365	136010	110100	0	0	0
DNPTAQQIMQLLR	GOLGA2; GOLGA2;	Q08379; A0A087	GOGA2_HUM	Oxidation (M)	569780	651280	615340	17092	0	0	0	0	0
DNSTMGYMAAK	HSP90AA1	P07900	HS90A_HUM	2 Oxidation (M);De	1957100	2426100	2073700	62427	35461	47653	0	0	0
DNSTMGYMAAKK	HSP90AA1	P07900	HS90A_HUM	2 Oxidation (M)	669570	602990	910450	33245	23445	12905	0	0	0
DNSTMGYMMAK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	3 Oxidation (M)	3233900	3906800	3669300	0	0	0	0	0	0
DNSTMGYMMAK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	3 Oxidation (M);De	2054300	1738600	2283100	0	89940	0	0	0	0
DNSTMGYMMAKK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	3 Oxidation (M)	407360	289000	0	0	0	0	0	0	0
DNTQLLINQLWQLPTER	RRS1	Q15050	RRS1_HUMA	Unmodified	574790	72487	385170	0	0	0	0	0	0
DNYVPEVSALDQEIIEVDPDTKEMLK	RPS17; RPS17; N/A;	P08708; H0YN88;	RS17_HUM/	Oxidation (M)	6178800	3688900	0	0	0	0	0	0	0
DPAAVTESK	HM13; HM13	Q8TCT9; A0A3B3	HM13_HUM/	Unmodified	1134700	0	0	85402	0	0	0	0	0
DPAEALQLPMDYVQR	FARSA; FARSA; FAI	Q9Y285; K7ERS0	SYFA_HUMA	Oxidation (M)	871750	1325300	842480	0	8572.1	0	0	9125.7	0
DPAEGDGAQPEETPR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	970930	859960	1059600	0	88527	0	0	0	0
DPAEGDGAQPEETPRDGDKPEETQGK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	1828500	2577400	1697500	92627	0	95267	0	0	0
DPAETLHLSEPLGGK	NIT1	Q86X76	NIT1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
DPALNSGVSQKPDPAK	TOP2A	P11388	TOP2A_HUM	Deamidation (N)	428080	652750	312040	0	0	0	0	0	0
DPAQPMSPGEATQSGAR	MYBBP1A	Q9BQG0	MBB1A_HUM	Oxidation (M)	418610	485870	1077100	0	0	0	0	0	0

DPAQPMSPGEATQSGARPADR	MYBBP1A	Q9BQG0	MBB1A_HUM	Oxidation (M)	812060	816050	876610	0	0	0	0	0	0
DPDASKPEDWDER	CALR; CALR; CALR	P27797; A0A7P07	CALR_HUM	Unmodified	2110000	2214000	2150300	57963	80299	0	0	0	0
DPDEPVLLEEPVVLALAEK	AKR1A1	P14550	AK1A1_HUM	Unmodified	438130	194710	419340	0	0	0	0	0	0
DPDPDFSTVK	PGM2L1	Q6PCE3	PGM2L_HUM	Unmodified	1393400	773550	971120	0	0	23199	0	0	0
DPEEIEKEEQAAAEK	RPSA; RPSA; RPSA	P08865; A0A0C4I	RSSA_HUM	Unmodified	1541500	1496600	2141500	42193	31343	0	0	0	0
DPEGFVGHPVNAFK	P4HA1	P13674	P4HA1_HUM	Unmodified	1651600	1540500	1349200	0	0	0	0	0	0
DPENFPFVVLGNK	RAB7A; RAB7A; RA	P51149; A0A6Q8I	RAB7A_HUM	Unmodified	3579100	3816000	3537900	25350	8482.9	23027	0	0	0
DPENFPFVVLGNK	RAB7A; RAB7A; RA	P51149; A0A6Q8I	RAB7A_HUM	Deamidation (N)	753810	651560	651650	0	0	0	0	0	0
DPENFPFVVLGNKIDLENR	RAB7A; RAB7A; RA	P51149; A0A6Q8I	RAB7A_HUM	Deamidation (N)	1149000	0	892520	0	0	0	0	0	0
DPENFPFVVLGNKIDLENR	RAB7A; RAB7A; RA	P51149; A0A6Q8I	RAB7A_HUM	Unmodified	0	0	928320	0	0	0	0	0	0
DPETPIIVVK	VIL1; VIL1	P09327; B4DV78	VILI_HUMAN	Unmodified	132010	0	117780	0	0	0	0	0	0
DPFSIER	CPEB1; N/A; CPEB1	Q9BZB8; H3BNC	CPEB1_HUM	Unmodified	0	67943	448430	0	0	0	0	0	0
DPGFDLR	C11orf54; C11orf54;	Q9H0W9; A0A08	CK054_HUM	Unmodified	549350	861780	755260	0	0	0	0	0	0
DPGIFAWEIRDR	PAX9; PAX1; PAX1	P55771; P15863;	PAX9_HUM	Unmodified	0	175390	207440	0	0	0	0	0	0
DPGVITYDLPTPPGEKK	VARS1; VARS1; VAI	P26640; A0A1401	SYVC_HUM	Unmodified	627420	0	952440	104250	68786	69753	17666	15092	16802
DPHLACVAYER	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2_HUM	Unmodified	2409400	1608500	1899900	90837	72866	98715	7575.2	0	0
DPIPYLPPLEK	SNRNP70	P08621	RU17_HUM	Unmodified	4838900	4074700	5436700	7126.4	52556	60969	0	0	0
DPIYFTGLASEPGAR	SORT1	Q99523	SORT_HUM	Unmodified	607350	531330	440400	0	0	0	0	0	0
DPLELFR	PSMD5; PSMD5	Q16401; Q4VXH0	PSMD5_HUM	Unmodified	0	0	0	0	0	0	0	0	0
DPLGGLADMFGQMPGSGIGTGPGVIQDR	EIF4G2; EIF4G2; EIF	P78344; H0YCH5	IF4G2_HUM	2 Oxidation (M)	1150800	883120	1151800	0	0	0	0	0	0
DPNIVIAK	PDIA3	P30101	PDIA3_HUM	Unmodified	2151300	1670500	1546200	0	0	0	0	0	0
DPNIVIAKMDATANDVPSPYEVR	PDIA3	P30101	PDIA3_HUM	Oxidation (M);Metl	998130	891760	889680	24143	0	0	0	0	0
DPNSPLYSVK	DDX19B; DDX19A;	Q9UMR2; Q9NUI	DD19B_HUM	Unmodified	1075600	734240	1169100	0	71013	30930	0	0	0
DPNVVGQLAK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2_HUM	Unmodified	1184400	649620	1252400	0	0	0	0	0	0
DPPHNNFFFFDGMK	SAE1; SAE1	Q9UBE0; M0QZS	SAE1_HUMA	Oxidation (M);Deai	326370	223610	308030	0	0	0	0	0	0
DPPSWSVLAGHSR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1556700	1421200	1021600	0	26989	25219	0	0	0
DPQALSEHLKNPVIAQK	STIP1	P31948	STIP1_HUMA	Unmodified	841660	734700	752250	0	0	0	0	0	0
DPQLVPILIEAAR	NSDHL; NSDHL	Q15738; C9JDR0	NSDHL_HUM	Unmodified	315930	208150	144290	0	0	0	0	0	0
DPSASPGDAGEQAIR	VCL	P18206	VINC_HUMA	Unmodified	1109800	1040500	1024300	85267	99223	75964	0	0	0
DPSFLHQQQLR	NFIB; NFIB; NFIB	Q5VW26; Q5VW:	Q5VW26_HU	Unmodified	966850	1206300	640030	0	0	0	0	0	0
DPSPVSGPVHLFR	GNPTG; GNPTG	Q9UJJ9; H0YEA7	GNPTG_HUM	Unmodified	303740	186020	0	36746	28450	33060	0	0	0
DPSQQELPR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	4017200	4203900	3805800	291970	304090	246860	0	0	0
DPSQVENLASSLQLITECFR	ATXN10; ATXN10	Q9UBB4; A0A1W	ATX10_HUM	Deamidation (N)	0	1175500	619230	0	0	0	0	0	0
DPTDEGIFISK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	1863700	1314900	1353900	0	0	0	0	0	0
DPTFIPAPIQAK	AGT; AGT; AGT; AC	P01019; A0A7P01	ANGT_HUM	Unmodified	1041400	1184900	1182100	0	77720	68488	0	0	0
DPTPSFYDLWAQEDPNAVLGR	BOP1	Q14137	BOP1_HUMA	Unmodified	177460	138060	469070	0	0	0	0	0	0
DPTVHDDVLELEMDELNR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	0	0	2836500	0	0	0	0	0	0
DPVQEAWAEDVDLR	PKM; PKM; PKM	P14618; B4DNK4	KPYM_HUM	Unmodified	1044200	893620	648100	11106	0	0	0	0	0
DPVQLNLLYVQAR	TLN2; TLN1	Q9Y4G6; Q9Y490	TLN2_HUMA	Unmodified	1557800	510960	1180600	15974	18911	0	0	0	0
DPVYTFSISQNPFPIENR	NPLOC4; NPLOC4;	Q8TAT6; I3L283;	NPL4_HUMA	Unmodified	360830	316370	390850	0	0	0	0	0	0
DPYGFGDSR	NCOA5	Q9HCD5	NCOA5_HUM	Unmodified	916660	720570	863280	61755	52147	72927	0	0	0
DQDEMNLER	SH3PXD2B; SH3PXI	A1X283; A0A1B0	SPD2B_HUM	Oxidation (M)	638460	843860	679710	0	0	0	0	0	0
DQDLEPGAPSMGAK	EPRS1	P07814	SYEP_HUMA	Oxidation (M)	1150100	0	1251900	132290	128750	129240	0	0	0
DQDNMQAELNR	KIF5B	P33176	KIN5B_HUMA	Oxidation (M)	442470	330300	513320	0	0	39251	0	0	0
DQDPNQSRKEMQLSAVHQLISSPVK	N/A	N/A	N/A	Deamidation (N)	0	1926200	0	0	19441	0	0	0	0
DQEFTVDTR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	0	407090	431220	0	56309	53730	0	0	0
DQELSPR	NDUFB6; NDUFB6	O95139; A0A087	NDUB6_HUM	Unmodified	1418400	1595700	488290	0	0	0	0	0	0
DQFALAMYFIQQK	EPS15L1; EPS15L1;	Q9UBC2; M0R2S	EP15R_HUM	Oxidation (M)	580320	350010	526940	0	0	0	0	0	0
DQGAYLILR	HGH1	Q9BTY7	HGH1_HUMA	Unmodified	695210	756220	550940	0	0	0	0	0	0
DQGELER	MYH9	P35579	MYH9_HUM	Unmodified	1830100	4108900	3842000	66377	132860	70370	0	0	0
DQGGFGDRNEYGSR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Deamidation (N)	995140	1034900	668690	82440	44300	0	0	0	0
DQGTLEQITRVDLK	N/A	N/A	N/A	Unmodified	778430	1667600	1947900	49174	0	0	0	0	0
DQGTYEDYVEGLR	MYL6; MYL6; MYL	P60660; G3V1Y7;	MYL6_HUMA	Unmodified	699100	775080	889540	26997	29195	23326	0	0	0
DQIPSPGLMVFPKPVTALEYTFSR	ATP1B3; ATP1B3; A	P54709; C9JA36;	AT1B3_HUM	Oxidation (M)	1140700	0	688620	0	0	0	0	0	0
DQITAGNAAR	PAICS; PAICS	P22234; E9PBS1	PUR6_HUMA	Unmodified	817750	4640700	3820200	0	0	143000	91972	86969	88292
DQIVSVQEEK	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	959480	976370	713840	0	0	0	0	0	0
DQKKTQEQLALEMAELTAR	MSN	P26038	MOES_HUM	Oxidation (M)	6186600	5637200	6077200	168160	97633	95379	0	0	0
DQLIYNLLK	LDHA; LDHA; LDH/	P00338; F5GXU1;	LDHA_HUM	Unmodified	0	0	792940	121820	116830	121140	0	13747	0
DQLLLGPTYATPK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB_HUMA	Unmodified	4795600	4933800	4600800	231170	241070	242790	0	0	0
DQLLPNLR	PCBD1	P61457	PHS_HUMAN	Unmodified	4955900	4132400	4930700	88681	74858	90934	0	0	0
DQLQTFSEEHPVLLTEAPLNPR	ACTR1A; ACTR1A;	P61163; A0A1B0	ACTZ_HUMA	Unmodified	4360700	2569200	3805900	0	0	0	0	0	0
DQLRPTQLLQNVAR	MYOF; MYOF	Q9NZM1; H0YD1	MYOF_HUM	Unmodified	657110	501320	724880	0	0	0	0	0	0
DQMEGSPNSSESFEHIAR	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C_HUM	Oxidation (M);Deai	281540	757650	1122200	53510	54446	47668	0	0	0
DQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Oxidation (M);Deai	3291000	2677300	2604300	0	0	0	0	0	0
DQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Oxidation (M)	1560000	1721500	1725200	0	0	0	0	0	0
DQMVSNMRNYMQKLER	MLF1; MLF1; MLF1	P58340; A0A499F	MLF1_HUMA	2 Oxidation (M);M	0	0	0	0	0	0	0	0	0
DQNILLGTTYR	PRKDC	P78527	PRKDC_HUM	Unmodified	3306400	3607900	2726100	0	0	0	0	0	0
DQNTVETLQR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	1072300	1065900	1110600	137530	140220	147680	0	0	0
DQNVFVAQK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	985290	862340	972010	115100	134340	117050	0	0	0
DQPAFTPSGILTPHALGSR	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	3646500	3273500	3538500	113090	96616	53215	24462	30567	0
DQPLDSSHIASIR	OPLAH; OPLAH	O14841; A0A087	OPLA_HUMA	Unmodified	1370000	0	0	0	0	87304	0	0	0
DQPNERQVRIQLKDHIDR	TNIK; MAP4K4; MA	Q9UKE5; O95819	TNIK_HUMA	4 Methyl (KR);Dea	0	3185900	0	0	0	0	0	0	0
DQPPNSVEGLLNALR	CYRIB	Q9NUQ9	CYRIB_HUM	Deamidation (N)	599690	516280	843570	0	0	0	0	0	0
DQPPNSVEGLLNALR	CYRIB	Q9NUQ9	CYRIB_HUM	Unmodified	463240	245210	463960	0	0	0	0	0	0
DQPQFQNMR	RAD23A; RAD23A; I	P54725; A0A494(	RD23A_HUM	Oxidation (M);Deai	359590	333630	0	0	0	0	0	0	0
DQQPGTFLLR	STAT1; STAT1; STA	P42224; A0A669I	STAT1_HUM	Unmodified	551250	543080	0	0	0	0	0	0	0
DQRYPRNVINNQK	ATP9A; ATP9A	O75110; A0A0A0	ATP9A_HUM	2 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
DQSEPLGR	PDE12; PDE12	Q6L8Q7; F6T1Q0	PDE12_HUM	Unmodified	0	0	0	0	0	0	0	0	0
DQSVGDPKIDLIR	SCARB2; SCARB2; S	Q14108; A0A1W2	SCRB2_HUM	Unmodified	566450	628200	0	108350	118080	108910	0	0	0
DQVAIHEAMEQQTISITK	MCM6	Q14566	MCM6_HUM	Oxidation (M)	1034100	0	0	0	0	0	0	0	0
DQVANSAFVER	HSP90AA1	P07900	HS90A_HUM	Deamidation (N)	21759000	23289000	18735000	232850	267960	198580	0	0	0
DQVANSAFVER	HSP90AA1	P07900	HS90A_HUM	Unmodified	12970000	14034000	11533000	0	0	0	42026	0	0
DQVTAQEIFQDNHEDGPTAK	XRCC5	P13010	XRCC5_HUM	Deamidation (N)	1217100	1457200	883460	0	13998	0	0	0	0
DQWEDR	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	1835700	2171800	1452000	0	0	40306	0	0	0
DQWEDRIQVWHAEHR	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	1461700	1273900	1422900	0	0	24174	0	0	0
DRANMQHR	HNRNPF	P52597	HNRPF_HUM	Methyl (KR)	0	463530	0	0	0	0	0	0	0
DRDGYSYGSR	SRSF6; SRSF6; N/A;	Q13247; A0A590(	SRSF6_HUM	Unmodified	1911600	2418400	2665300	200330	207270	247880	0	0	0
DRDPEAQFEMPYVVR	PRMT5; PRMT5; PR	O14744; H0YJD3;	ANM5_HUM	Oxidation (M)	1387600	926040	1215800	41541	0	0	0	0	0
DRDYSDHPSGGSYR	RBMX; RBMXL1; R	P38159; Q96E39;	RBMX_HUM	Unmodified	6413100	0	7417000	384810	0	0	0	0	0
DRDYSDHPSGGSYRDSYESYGNSR	RBMX; RBMXL1; R	P38159; Q96E39;	RBMX_HUM	Deamidation (N)	3920200	2470000	2681900	0	74311	97596	0	0	0
DREEALHQFR	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X_HUM	Unmodified	5785500	0	0	0	0	0	0	0	0
DREEDEEDAYER	RBM25	P49756	RBM25_HUM	Unmodified	675890	1119100	0	31697	19019	0	0	0	0
DREEILQELEPVISR	TOR2A	Q5JU69	TOR2A_HUM	Unmodified	466780	1418400	752680	0	0	0	0	0	0
DREGFFTNGLTLGAK	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2_HUM	Deamidation (N)	6389100	6156700	6673800	76395	0	27519	0	15193	0
DREVGIPPEQSLETAK	ACTR3; ACTR3	P61158; B4DXW1	ARP3_HUMA	Unmodified	726120	713760	863300	0	0	0	0	0	0
DRFGIDDQDYLVSLTR	PIP4K2C; PIP4K2C;	Q8TBX8; F8VU68	PI42C_HUM	Unmodified	870230	1006700	877990	0	0	0	0	0	0
DRFVGQSEGKK	SLTM; SLTM; SLTM	Q9NWH9; H7C3F	SLTM_HUM	Unmodified	363780	558810	452530	53472	91911	0	14122	12340	13796
DRGPMYDDPTLPEGWTR	MECP2; MECP2; ME	P51608; A0A0D9	MECP2_HUM	Oxidation (M)	2031800	1293600	1707900	185810	251020	266560	0	0	0
DRKESLDVYELDAK	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1_HUM	Unmodified	0	1289300	1474800	307270	375980	416780	0	0	0
DRKESLDVYELDAKQGR	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1_HUM	Unmodified	0	0	0	166620	157490	161240	37807	29959	0
DRLALSQAHSLVQAEAPR	TIMM29; TIMM29	Q9BSF4; K7ENF5	TIM29_HUM	Unmodified	396660	452310	366060	24944	19165	0	0	0	0
DRLLASTLVHSVK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	0	768860	398360	0	0	0	0	0	0
DRLPAVTSEEGGVAER	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2_HUM	Unmodified	2204900	0	0	0	0	0	0	0	0
DRLSASSLTMESFAFLWAGGR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Oxidation (M)	630790	226890	1052100	0	0	0	0	0	0
DRLVPGPVFGSK	LMAN2; LMAN2; LM	Q12907; D6RIU4;	LMAN2_HUM	Unmodified	1582300	1476100	1853000	46649	62733	47353	0	0	0
DRPGGSMVVSDVVPGGPAEGR	TJP3; TJP3	O95049; K7ESC0	ZO3_HUMAN	Oxidation (M)	860790	723490	772190	178800	162470	194330	0	0	0
DRPMEESLLLFEAMR	QARS1; QARS1; QAI	P47897; A0A1B0	SYQ_HUMAN	2 Oxidation (M)	1619800	1820600	1931100	45762	34346	28684	0	0	0
DRPMEESLLLFEAMRK	QARS1; QARS1; QAI	P47897; A0A1B0	SYQ_HUMAN	2 Oxidation (M)	1035300	1373100	1143900	36365	46678	35497	0	0	0
DRSSFYVNGLTLGGQK	PFN1; PFN1; PFN1	P07737; I3L3D5;	PROF1_HUM	Deamidation (N)	669510	790410	502580	0	0	0	0	0	0
DRTQQYDDLIDEFMK	ME2; ME2; ME2; MI	P23368; A0A1W2	MAOM_HUM	Oxidation (M)	2664800	1828200	1607400	0	0	0	0	0	0
DRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	858200	863220	777450	36873	0	0	0	0	0
DRVTSAVEALLSADSASR	USP5	P45974	UBP5_HUMA	Unmodified	1024700	802320	738260	0	0	0	0	0	0
DRYGGQPLFSEKFPTLWSGAR	HNRNPUL2; HNRNF	Q1KMD3; H3BQ2	HNRL2_HUM	Unmodified	4496000	5117000	4601300	0	0	0	0	0	0
DRYGGQPLFSEKFPTLWSGAR	HNRNPUL2; HNRNF	Q1KMD3; H3BQ2	HNRL2_HUM	Methyl (KR)	730250	728780	777580	0	0	0	0	0	0
DRYMSPMEAQEFGILDK	CLPP; CLPP	Q16740; M0R208	CLPP_HUMA	2 Oxidation (M)	1870800	3437500	1753700	68648	52984	14676	0	0	0
DSAFERKNITEYCRDLIK	RECQL	P46063	RECQ1_HUM	3 Methyl (KR);Dea	2269400	857790000	657230000	0	0	0	0	19873	0
DSAIQQQVANLQMK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	2731300	3052000	2937500	0	44230	55066	0	0	0
DSALETLQGQLEEK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	2974900	2106600	999580	17683	16819	0	0	0	0
DSAQCAAIAER	NUDCD1; NUDCD1	Q96RS6; A0A7I2	NUDC1_HUM	Unmodified	1026600	1057300	776640	0	0	0	0	0	0
DSAQTSVTQAQR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	3801200	4045000	3979000	337820	338570	289660	0	0	0
DSASFNPELLTHILDGSPEK	ACOX1; ACOX1; AC	Q15067; I3L0T4;	ACOX1_HUM	Unmodified	826690	2315100	2090600	0	0	0	0	0	0
DSAVAISGADSR	HUWE1	Q7Z6Z7	HUWE1_HUM	Unmodified	1167100	1738300	1655300	74083	0	62120	0	0	0
DSAYQSITHYRPVSASR	EMD; EMD	P50402; Q5HY57	EMD_HUMA	Unmodified	4508000	2987100	4396900	0	0	0	33516	24525	101370
DSCPLDCK	SRSF3; SRSF3	P84103; A0A087	SRSF3_HUM	Unmodified	2950100	0	3990900	157520	0	229300	0	0	0
DSDEADLVLAK	CBX3	Q13185	CBX3_HUMA	Unmodified	1785200	1377100	1999000	68228	0	87610	0	6423.9	0
DSDELKSWVNEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1690000	1226300	1203100	0	0	0	0	0	0
DSDIIEDVMVKDLQK	ENDOD1	O94919	ENDD1_HUM	Oxidation (M)	957320	774060	727330	92859	110060	87862	0	0	0
DSEEAEIIR	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Unmodified	2075200	3418800	1208600	30344	25335	0	0	0	0
DSEIMQQK	SERF2	P84101	SERF2_HUMA	Oxidation (M)	505450	803380	760590	37840	35963	43356	0	0	0
DSENKGPAFVNPLIPESPEEEELFR	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9_HUM	Unmodified	2307700	1603500	2906800	0	0	0	0	0	0
DSENKGPAFVNPLIPESPEEEELFR	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9_HUM	Deamidation (N)	512280	433530	552420	0	0	0	0	0	0
DSENQSSSVLSLLQSVSER	CRYBG3	Q68DQ2	CRBG3_HUM	Unmodified	0	357190	259510	0	0	0	0	0	0

DSENQSSSVLSLLQSVSER	CRYBG3	Q68DQ2	CRBG3_HUM	Deamidation (N)	25512	145020	116490	0	0	0	0	0	0
DSEQVAELKQELATLK	USO1	O60763	USO1_HUMA	Unmodified	2036000	1525600	1486700	0	0	0	0	0	0
DSETGENIR	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	1847800	1452800	2433500	0	0	0	0	0	0
DSFDDRGPSLNPVLDYDHGSR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	22403000	19271000	17015000	588190	593040	364450	110150	75159	111440
DSFLGSIPGK	IARS2	Q9NSE4	SYIM_HUMA	Unmodified	0	1104300	483740	19150	0	0	0	0	0
DSFLGSIPGKNAAEYK	IARS2	Q9NSE4	SYIM_HUMA	Deamidation (N)	925130	715210	595960	0	19660	0	0	0	0
DSFLKDGQPFR	GLB1; GLB1; GLB1;	P16278; C9JF15;	BGAL_HUM	Unmodified	1388700	1137100	1110500	0	0	0	0	0	0
DSFPWEVPK	MAT2A	P31153	METK2_HUM	Unmodified	660120	607330	702950	22614	18940	23432	0	0	0
DSFQEVLR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	2306500	1876700	2199000	215560	232200	269980	0	0	0
DSGAYTLTATNPGGFAK	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN_HUMA	Methyl (KR);Deam	0	0	0	0	0	0	0	0	0
DSGIIATLTSYSENVER	TANC2; TANC2	Q9HCD6; J3KRP5	TANC2_HUM	Unmodified	310690	0	378040	0	0	0	0	0	0
DSGPLSDPITGKPYVPLLEAEEVR	DHX30; DHX30	Q7L2E3; H7BXY3	DHX30_HUM	Unmodified	1295000	1381500	2418300	0	0	0	0	0	0
DSGPNKNK	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
DSGPPPSTVSEAEFEDIMKR	CPSF7; CPSF7	Q8N684; F5H669	CPSF7_HUM	Oxidation (M)	1957600	2344300	2754300	120200	151990	0	0	0	0
DSGRDYVSQFEGSALGK	APOA1	P02647	APOA1_HUM	Unmodified	2276900	1568800	549560	0	0	0	0	0	0
DSGRGDSVSDSGSDALR	PDCD4; PDCD4	Q53EL6; Q5VZS7	PDCD4_HUM	Unmodified	451540	526810	510680	0	0	0	0	0	0
DSGSFVAFQNIPGSELMSSFAK	TMPO	P42166	LAP2A_HUM	Oxidation (M)	4474600	2828300	3378900	0	0	0	0	0	0
DSGYLHLLYK	NUP214; NUP214; N	P35658; A0A494E	NU214_HUM	Unmodified	418060	0	671950	0	0	0	0	0	0
DSHSLTTNIMEILR	FGA; FGA	P02671; A0A087	FIBA_HUMA	Oxidation (M)	325950	203940	290110	0	0	0	0	0	0
DSIFSNLTGQLDYQGFEK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	3698100	1101600	2495000	0	0	0	0	0	0
DSIFSNLTGQLDYQGFEK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Deamidation (N)	0	0	153230	0	0	0	0	0	0
DSILSEMK	SMC3	Q9UQE7	SMC3_HUMA	Oxidation (M)	3668500	3687400	2136200	0	0	0	0	0	0
DSIVAELDREMSR	COPE; COPE	O14579; M0QXB	COPE_HUMA	Oxidation (M)	0	4151600	0	72003	67378	58200	0	0	0
DSKSQAPGQPGASQWGSR	DAZAP1; DAZAP1;	Q96EP5; K7EK33	DAZP1_HUM	Unmodified	1271200	1462200	1589100	0	239660	268810	28484	0	0
DSLDPSFTHAMQLLTAEIEK	KHDRBS1	Q07666	KHDR1_HUM	Oxidation (M)	22504000	18986000	20793000	0	0	0	0	0	0
DSLIFLVDASK	XRCC6	P12956	XRCC6_HUM	Unmodified	4047100	0	0	0	42418	0	20468	0	0
DSLIIIDELGR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	2038900	1791100	1095600	0	0	0	0	0	0
DSLLGDKGQQTAR	MCM7	P33993	MCM7_HUM	Unmodified	817860	524180	376000	0	0	0	0	0	0
DSLLQDGEFSMDLR	PFN1; PFN1	P07737; K7EJ44	PROF1_HUM	Oxidation (M)	45635000	41021000	37821000	440330	761240	521040	112060	126280	138990
DSLSDDVVK	HSDL2	Q6YN16	HSDL2_HUM	Unmodified	2177700	0	419500	0	137480	0	0	0	0
DSLSPVLHPSDLILTR	GPN1	Q9HCN4	GPN1_HUMA	Unmodified	1778100	1351400	972560	19418	0	0	0	0	10794
DSLTGSSDLYKR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1_HUM	Unmodified	1169700	529160	1127300	0	0	0	0	0	0
DSLVDIIGICK	RPA1; RPA1	P27694; I3L4R8	RFA1_HUMA	Unmodified	743610	0	727960	0	0	0	0	0	0
DSNFAGDLVR	DDX42; DDX42	Q86XP3; A0A0A0	DDX42_HUM	Unmodified	1422700	1543500	0	53363	78836	109130	0	0	0
DSPDLLLLLR	NELFB; NELFB	Q8WX92; A0A5H	NELFB_HUM	Unmodified	473400	386620	417260	0	0	0	0	0	0
DSPFGLSFVR	XRCC1; XRCC1; XR	P18887; M0QZ96	XRCC1_HUM	Unmodified	1775400	1433600	1405500	36005	25723	18977	0	0	0
DSQAALPK	DBN1; DBN1; DBN1	Q16643; D6RFI1;	DREB_HUMA	Unmodified	421890	0	341910	0	0	0	0	0	0
DSQDGSSYR	LASP1; LASP1; LAS	Q14847; C9J9W2;	LASP1_HUM	Unmodified	983740	570630	762900	66183	59843	27129	0	0	0
DSQGHGRDLSAAGIGLLAAATQSLSMPASLGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Oxidation (M)	7800100	4555500	11876000	0	0	0	0	0	0
DSQKNFVDPVTK	DSP	P15924	DESP_HUMA	Deamidation (N)	1260500	1261300	1670300	221540	0	0	0	0	0
DSQLYAVDYETLTRPFSGR	MRPS34; MRPS34	P82930; C9JJ19	RT34_HUMA	Unmodified	0	1294300	2808600	0	0	0	0	0	0
DSSGQHVDVSPTSQR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	613190	540140	526550	58285	34761	0	0	0	0
DSSPHFQAEQR	SUN2	Q9UH99	SUN2_HUMA	Unmodified	3517100	2626700	2363100	186640	60258	148010	0	0	0
DSSREFDLTKEEDLAALRHEIELR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	1636500	1116000	921240	0	0	0	0	0	0
DSTGAADPPQPHIVGIQSPDQQAALAR	ECSIT; ECSIT	Q9BQ95; J3KTF5	ECSIT_HUM	Unmodified	4759500	1745200	2314400	95811	122860	95862	0	0	0
DSTLIMQLLR	SFN; YWHAB; YWH	P31947; P31946;	1433S_HUMA	Oxidation (M)	31659000	32627000	36307000	149310	217010	436580	325050	483350	468940
DSVKVMTVNYNTHGELGEGAR	MRPS25; MRPS25	P82663; E7EPW2	RT25_HUMA	Oxidation (M);Meth	834490	761920	1153300	108900	138020	154870	0	0	0
DSVLTSKNQIER	DNAJC8	O75937	DNJC8_HUM	Deamidation (N)	6530800	5814700	6497000	333290	112370	164630	0	0	0
DSVLTSKNQIER	DNAJC8	O75937	DNJC8_HUM	Unmodified	2070100	2471900	1906800	269380	294460	242590	0	0	0
DSVDSYATHNE	CIRBP	Q14011	CIRBP_HUM	Unmodified	1050600	1395300	1249100	191180	275960	228990	0	0	0
DSVESYGNSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Deamidation (N)	8954600	8863400	7616200	429260	468000	648730	0	0	0
DSVESYGNSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	1008900	298150	0	0	0	0	0	0	0
DSVGGPPR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	5478600	16061000	16830000	755430	891400	983830	69324	0	0
DSYLILETLPTEYDSR	PSMC3; PSMC3; PS	P17980; E9PN50;	PRS6A_HUM	Unmodified	155140	803550	1083900	0	0	0	0	0	0
DSYSSRDYPSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	1792400	1191500	1622900	541190	467970	430900	35978	33083	26791
DSYSSSRSDLYSSGR	RBMX; RBMX	P38159; H3BUY5	RBMX_HUM	Unmodified	1482200	1509400	1564900	116310	37853	66224	0	0	0
DSYVGDEAQSK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	Unmodified	68407000	62330000	62843000	3118300	3024200	2808300	55587	0	31244
DSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	Unmodified	70262000	54215000	74805000	4351800	4752600	4884800	348420	195100	291090
DSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	Methyl (KR)	10558000	9167800	23703000	373150	386840	317720	20457	0	42633
DTAAWTVGR	KPNB1; KPNB1; KPI	Q14974; J3QKQ5;	IMB1_HUMA	Unmodified	2167600	1733000	2015000	0	0	0	0	0	0
DTANWLEINPDTGAISTR	CDH1	P12830	CADH1_HUM	Unmodified	0	564560	0	0	0	0	0	0	0
DTASLSTTPSESPR	GPHN; GPHN; GPHN	Q9NQX3; G3V58	GEPH_HUMA	Unmodified	1556700	1483000	1462000	88433	89760	112370	0	16035	0
DTDEADLVLAK	CBX5	P45973	CBX5_HUMA	Unmodified	1177300	0	0	41210	32767	0	0	0	0
DTDNEEEIREAFR	CALML3	P27482	CALL3_HUM	Unmodified	1724300	1779400	2074000	0	0	0	0	0	0
DTDNEEEIREAFR	CALML3	P27482	CALL3_HUM	Deamidation (N)	692620	602720	550260	0	0	0	0	0	0
DTDPDSKPFSLQETYEAK	SEPTIN6; SEPTIN11	Q14141; Q9NVA2	SEPT6_HUM	Unmodified	638470	715640	700600	13231	0	0	0	0	0
DTDSEEEIR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Unmodified	6558300	5496000	6412900	108650	124760	149330	0	0	0
DTDSEEEIREAFR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Unmodified	26765000	20609000	22620000	382360	432000	415390	0	0	0
DTDSINLYK	XPO1; XPO1; XPO1;	O14980; A0A7I2	XPO1_HUMA	Unmodified	385650	692120	325680	0	0	0	0	0	0
DTDSSVASEVR	LSR; LSR	Q86X29; S4R3V8	LSR_HUMAN	Unmodified	1904900	1641600	2503400	283700	348060	257960	0	0	0
DTEEEDFHVDQVTTVK	SERPINA1	P01009	A1AT_HUMA	Unmodified	10565000	9528300	8102600	77840	100220	48370	0	0	0
DTEEPLPVK	SON; SON	P18583; H7C1M2	SON_HUMAN	Unmodified	134500	175190	460620	0	0	0	0	0	0
DTFEHDPSESIDEFNK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	660090	658950	747560	0	0	0	0	0	0
DTFNHLTTWLEDAR	RAB2A; RAB2A; RA	P61019; H7C125;	RAB2A_HUM	Deamidation (N)	0	326270	310630	0	0	0	0	0	0
DTFYKEQLER	CHCHD6; CHCHD6;	Q9BRQ6; H0Y922	MIC25_HUM	Unmodified	2241700	2037100	0	21631	36166	28967	0	0	0
DTGIFLDLMHLK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Oxidation (M)	2753100	1596200	2561300	11232	0	0	0	0	0
DTGKTPVEPEVAIHR	RPS20; RPS20; RPS2	P60866; E5RIP1;	RS20_HUMA	Unmodified	3180700	6603700	7834000	62851	0	0	0	0	0
DTGNFVIGQILSDQSR	POLA1; POLA1	P09884; A6NMQ1	DPOLA_HUM	Unmodified	124140	0	133300	0	0	0	0	0	0
DTHLTITPTVLGER	SHPK; N/A	Q9UHJ6; A0A0B4	SHPK_HUMA	Unmodified	1281700	928620	925290	27697	21810	0	0	0	0
DTINLLDQR	GOLM1	Q8NBJ4	GOLM1_HUM	Unmodified	456560	643590	785930	77112	76523	68725	0	0	0
DTLALLQK	CCDC86	Q9H6F5	CCD86_HUM	Unmodified	1223200	951710	829090	111400	113440	78794	0	0	0
DTLMISR	IGHG2; IGHG4; IGH	P01859; P01861;	IGHG2_HUM	Oxidation (M)	52722000	59095000	39406000	1829700	1882200	1986000	103840	0	143360
DTLWHLFNTLQR	MAVS	Q7Z434	MAVS_HUM	Unmodified	146420	107930	123660	0	0	0	0	0	0
DTLYEAVR	RPL10A	P62906	RL10A_HUM	Unmodified	11453000	13584000	13605000	75836	67867	0	0	0	0
DTLYEAVREVLHGNQR	RPL10A	P62906	RL10A_HUM	Unmodified	6306900	8116700	7115600	0	0	0	0	0	0
DTLYEAVREVLHGNQR	RPL10A	P62906	RL10A_HUM	Deamidation (N)	820980	1018300	962160	0	0	0	0	0	0
DTMDLPEELPGVKPFTR	MMUT	P22033	MUTA_HUM	Oxidation (M)	7021600	0	0	215630	161570	118590	16930	0	24412
DTMSDLPEVR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1_HUM	Oxidation (M)	1425300	0	1443400	0	0	0	0	0	0
DTNGENIAESLVAEGLATR	SND1	Q7KZF4	SND1_HUMA	Deamidation (N)	572380	584250	417260	0	0	0	0	0	0
DTNGSQFFITTVK	PPIB; PPIB; PPIB	P23284; A0A7P01	PPIB_HUMA	Deamidation (N)	1216100	0	1494800	38211	38781	25171	0	0	0
DTPAKNAQK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Deamidation (N)	0	5610500	2018400	48668	0	0	0	0	0
DTPDATFLLR	CNNM3	Q8NE01	CNNM3_HUM	Unmodified	1801500	1715300	588930	27289	70455	64451	0	0	0
DTPDEPWAFPAR	SND1	Q7KZF4	SND1_HUMA	Unmodified	1230200	1220700	1182800	97707	55343	0	0	0	0
DTPDEPWAFPAREFLR	SND1	Q7KZF4	SND1_HUMA	Unmodified	1147200	0	0	0	0	0	0	0	0
DTPENNPDTPFDFTPENYKR	NDUFV2; NDUFV2	P19404; E7EPT4	NDUV2_HUM	Unmodified	1010000	1004800	966320	31969	0	0	0	0	0
DTPGHGSGWAETPR	SF3B1	O75533	SF3B1_HUM	Unmodified	2986700	4580900	3983200	340460	0	331040	0	0	0
DTPTQEDWLVSVLPEGSR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1_HUMA	Unmodified	603030	378560	417790	0	0	0	0	0	0
DTPTSAGPNSFNK	PCNP	Q8WW12	PCNP_HUMA	Deamidation (N)	674100	708510	985180	33364	52174	0	0	0	0
DTPVELLAPLPPYFSR	RPUSD3	Q6P087	RUSD3_HUM	Unmodified	248430	166850	157610	0	0	0	0	0	0
DTQEVPLEK	YTHDF1; YTHDF3;	Q9BYJ9; Q7Z739	YTHD1_HUM	Unmodified	731850	861270	0	32317	0	0	0	0	0
DTQSGSLLFIGR	SERPINH1; SERPIN	P50454; E9PKH2	SERPH_HUM	Unmodified	1073000	534290	1225200	18754	20705	12439	9462.6	0	0
DTSEDIEELVEPVAAHGPK	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1_HUM	Unmodified	900060	1000800	1479700	0	0	0	0	0	0
DTSLYRPALEELR	PSMD2; PSMD2; PSI	Q13200; H7C2Q3	PSMD2_HUM	Unmodified	964680	1110600	1056700	0	0	0	0	0	0
DTSLYRPALEELRR	PSMD2; PSMD2; PSI	Q13200; H7C2Q3	PSMD2_HUM	Unmodified	1022700	790740	1088300	0	0	0	0	0	0
DTSNHFHVFVGDLSPEITTEDIK	TIAL1; TIA1; TIAL1;	Q01085; C9JTN7;	TIAR_HUMA	Deamidation (N)	1603800	1239100	0	0	0	0	0	0	0
DTSVEDALER	MRPL24	Q96A35	RM24_HUMA	Unmodified	1812400	1536200	1300200	0	43966	44431	0	0	0
DTSVEGSEMVPGKVELQEK	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1_HUMA	Oxidation (M)	1208000	1259300	1161700	0	0	121010	0	0	0
DTTALSFFHMLNGAALR	LRPPRC	P42704	LPPRC_HUM	Oxidation (M);Dea	691390	629070	809460	0	0	0	0	0	0
DTTAVPYVFQDDPYLMPASSLESR	PTCD3; PTCD3	Q96EY7; B8ZZQ4	PTCD3_HUM	Oxidation (M)	870350	534060	462390	0	0	0	0	0	0
DTTMYAVSADSK	PMPCA	Q10713	MPPA_HUM	Oxidation (M)	564310	567110	443040	0	0	0	0	0	0
DTTVGTLSQR	PSMD7	P51665	PSMD7_HUM	Unmodified	603140	624520	526550	0	0	0	0	0	18756
DTVATQLSEAVDATR	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
DTVDPVQDEMLAR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Oxidation (M)	2081600	2029600	1520900	0	0	0	0	0	0
DTVIKPLLVEPEGLEK	A2M	P01023	A2MG_HUM	Unmodified	1231100	1004000	560450	30419	0	0	0	0	0
DTVLLPQTSFPMKLLGR	IARS2	Q9NSE4	SYIM_HUMA	Oxidation (M)	2016400	1517200	1228000	0	0	0	9544.9	0	0
DTVLLRK	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	487500	597050	842710	0	0	0	0	0	0
DTVPLPPGGAR	PCK2; PCK2	Q16822; H0YM31	PCKGM_HUM	Unmodified	2082400	1747300	3237400	169910	133610	158540	0	0	0
DTVIENEK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	443910	480920	698180	0	0	0	26280	36603	0
DTVIENEKLISGK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	1311300	1338500	1232000	55471	48787	41998	0	0	0
DTVIENEKLISGK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Deamidation (N)	575680	960760	1082100	34579	89642	37996	0	9103.1	0
DTVVSSFPR	TCEA1; TCEA1; TCE	P23193; A0A1W2	TCEA1_HUM	Unmodified	5136800	4836900	4622000	294610	260450	257210	0	0	0
DVACGANHTLVLDSQK	RCC2	Q9P258	RCC2_HUMA	Deamidation (N)	0	440740	353880	0	0	0	0	0	0
DVACGANHTLVLDSQKR	RCC2	Q9P258	RCC2_HUMA	Unmodified	1419200	546460	0	0	0	0	0	0	0
DVACGANHTLVLDSQKR	RCC2	Q9P258	RCC2_HUMA	Deamidation (N)	822490	0	661790	0	0	0	0	0	0
DVAEAKPELSLLGDGDH	IAH1; IAH1	Q2TAA2; H7C5G	IAH1_HUMA	Unmodified	1574000	2056700	2722700	58751	27466	37916	0	0	0
DVAEVDTVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2029800	1270800	1060200	109450	269000	231590	0	0	0
DVAFTVGEGEDHDIPIGIDK	FKBP5	Q13451	FKBP5_HUM	Unmodified	2462100	1280200	1766500	0	0	0	0	0	0
DVAHLGPDPQPPYSR	DPYSL2	A0A1C7CYX9	A0A1C7CYX9_	Unmodified	6145900	4623300	3895100	232260	373970	293840	0	0	0
DVAIKEPLVDVVDPK	PRMT1; PRMT1; PR	Q99873; E9PKG1	ANM1_HUM	Unmodified	2714900	1416700	1233200	0	0	0	0	0	0
DVAKPVIELYK	AK4; AK4	P27144; F8VS11	KAD4_HUMA	Unmodified	1835800	1074100	1083300	0	0	0	0	0	0
DVALLQGR	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Unmodified	4777400	3331200	3571500	0	0	0	0	0	0
DVAPQAPVHFLVIPK	HINT2	Q9BX68	HINT2_HUM	Unmodified	9905300	8347000	10319000	106630	23215	101150	0	0	0

DVAVMQLR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUMA	Oxidation (M)	0	0	0	78727	108660	106340	0	0	0
DVAVVAGGLGR	ATP6AP1; ATP6AP1	Q15904; A0A7Z7	VAS1	HUMA	Unmodified	945490	1060400	1129800	0	0	0	0	0	0
DVCTELLPLIKPQGR	CBR1	P16152	CBR1	HUMA	Unmodified	6716900	7374400	7548000	0	0	33254	23751	16166	0
DVCTFLR	CYC1	P08574	CY1	HUMAN	Unmodified	4347500	5631500	4705700	93543	73367	88976	0	0	7448.3
DVDEIEAWISEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	563390	328120	698120	0	0	0	0	0	0
DVDELPSLQPSVGSPSRPSSSR	STRN	O43815	STRN	HUMA	Unmodified	2667900	960460	832230	0	0	0	0	0	0
DVDETISWIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	666630	518540	519740	0	0	0	0	0	0
DVDFEGTDEPIFGK	MTREX; MTREX	P42285; H0Y8U3	MTREX	HUM	Unmodified	1144000	997040	1161100	45793	0	0	0	0	0
DVDFEGTDEPIFGKKPR	MTREX; MTREX	P42285; H0Y8U3	MTREX	HUM	Unmodified	1324300	948300	1657800	41902	0	72488	0	12174	0
DVDFELIKVEGK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUMA	Unmodified	7399300	8240100	8073100	170730	159680	153600	0	16939	0
DVDFELIKVEGK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUMA	Methyl (KR)	903740	731930	523470	12775	0	7230.7	0	0	0
DVDKFGNEITQLAR	NPLOC4	Q8TAT6	NPL4	HUMA	Deamidation (N)	0	309080	0	0	0	0	0	0	0
DVDLEFLAK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	5618200	4573700	6083900	310290	183080	149300	24612	17855	17242
DVDLGIFIQDYK	FKTN; FKTN; FKTN;	O75072; A0A2R8	FKTN	HUMA	Unmodified	617730	0	0	0	0	0	0	0	0
DVDNALR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	1421400	0	1258400	47041	55805	63998	0	0	0
DVDRIIGLDQVAGMSETALPGAFK	MYH9	P35579	MYH9	HUM/	Oxidation (M)	1514700	0	0	0	0	0	0	0	0
DVDRTRLER	ABLIM2; ABLIM3; A	Q6H8Q1; O94929	ABLM2	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
DVEDEETWIR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	1318600	1059600	1073400	52191	61240	69234	0	0	0
DVEDFLSPLLGK	MRPL49; MRPL49	Q13405; H0YDP7	RM49	HUMA	Unmodified	506350	334550	452360	0	0	0	0	0	0
DVEDMFSR	ELAVL1; ELAVL1; E	Q15717; M0R055	ELAV1	HUM	Oxidation (M)	2474900	1891500	2036600	58255	61300	72936	0	0	0
DVEEEKFPTQLSR	SMU1	Q2TAY7	SMU1	HUM/	Unmodified	1108000	758080	985180	53391	58269	73857	0	0	0
DVEHYVGSDKEIDVIDVTR	PHF8; PHF8	Q9UPP1; H0Y3N9	PHF8	HUMA	Unmodified	1023800	807980	0	0	27830	59918	0	0	0
DVEPEDPMFLMDPFAIHR	MLF2; MLF2; MLF2;	Q15773; F5H800;	MLF2	HUMA	2 Oxidation (M)	1841400	2551000	1518900	0	0	0	0	0	0
DVERDVFLYR	COPE; COPE; COPE	O14579; M0R061	COPE	HUMA	Unmodified	604000	803270	1026200	0	12535	0	0	0	0
DVEREGLDWDLIYVGR	COLGALT1; COLGA	Q8NBJ5; M0QX7	GT251	HUM	Unmodified	784870	653490	631810	0	0	0	0	0	0
DVESDSAK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Unmodified	1603900	0	427090	23867	0	22385	0	0	0
DVESVQTPSK	MKI67	P46013	KI67	HUMA	Unmodified	1207500	2479300	2528000	0	0	0	0	0	0
DVFANYLTSNFQAPGVK	ZCCHC8; ZCCHC8;	Q6NZY4; F5H6J5	ZCHC8	HUM	Unmodified	429090	264590	458430	0	0	0	0	0	0
DVFFYQADDEHYIPR	TUBG1; TUBG2; TU	P23258; Q9NRH3	TBG1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
DVFISAAERDVYTGDALR	PSMB1	P20618	PSB1	HUMA	Unmodified	0	895400	961840	0	0	0	0	0	0
DVFLYR	COPE; ZNF770; COP	O14579; Q6IQ21;	COPE	HUMA	Unmodified	705440	513040	609570	0	0	0	0	0	0
DVFNKGYGFGMVK	VDAC3; VDAC3; VD	Q9Y277; E5RFL1	VDAC3	HUM	Oxidation (M)	489290	500640	442560	0	0	10955	0	0	0
DVFTKGYGFGLIK	VDAC1; VDAC1	P21796; C9JI87	VDAC1	HUM	Unmodified	351940	336330	257930	9290	0	0	0	0	0
DVFTKGYGFGLIK	VDAC1; VDAC1	P21796; C9JI87	VDAC1	HUM	Methyl (KR)	5741100	6231700	5529100	0	0	0	0	0	0
DVGGEGVQQGLLK	CLPX	O76031	CLPX	HUMA	Unmodified	0	495850	0	37375	0	0	0	0	0
DVGVVCSR	CD163; CD163	Q86VB7; F5GZZ9	C163A	HUM.	Unmodified	0	0	0	0	103930	93092	0	0	0
DVHNIYGLYVHMATADGLR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Oxidation (M)	8751100	4860300	4348100	0	0	21121	0	13514	0
DVIAQSQSGTGK	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3	HUMA	Unmodified	1517200	1431900	1576200	0	0	0	0	0	0
DVIATDKEDVAFK	MDH1; MDH1; MDH	P40925; C9JF79;	MDHC	HUM.	Unmodified	1427700	1113700	997500	0	0	0	0	57136	0
DVIDEPIIEEPSR	RAD21	O60216	RAD21	HUM	Unmodified	2961400	0	3437500	132510	100610	100430	0	0	0
DVIDEPIIEEPSRLQESVMEASR	RAD21	O60216	RAD21	HUM	Oxidation (M)	5494300	6319000	5940900	0	0	0	0	0	0
DVIEEYFK	RPS12	P25398	RS12	HUMA	Unmodified	2554800	2770100	2692800	43924	44450	56232	0	11899	0
DVIELTDDSFDK	PDIA6	Q15084	PDIA6	HUM/	Unmodified	999370	789030	1135300	18749	30694	0	0	0	0
DVKGESLFHSK	EPCAM; EPCAM	P16422; B5MCA4	EPCAM	HUM	Unmodified	751790	529680	617640	100470	0	0	0	0	0
DVKPHNVMIDHEHR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23	HUM.	Methyl (KR)	1640300	899920	722320	0	0	0	0	0	0
DVLDGHLR	DSP	P15924	DESP	HUMA	Unmodified	238540	330650	816540	0	0	0	0	0	0
DVLFLKDCVGPEVEK	PGK1	P00558	PGK1	HUMA	Unmodified	1957800	1543300	1117900	0	0	0	0	0	0
DVLFLKDCVGPEVEK	PGK1	P00558	PGK1	HUMA	Methyl (KR)	457050	0	0	0	0	0	0	0	0
DVLSVAFSSDNRQIVSGSR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1	HUM	Unmodified	532430	576330	472610	0	0	0	0	0	0
DVMPEVNKVLDK	GPI; GPI; GPI; GPI; C	P06744; K7ERC6;	G6PI	HUMA	Deamidation (M);2 M	0	0	0	0	0	0	0	0	0
DVMQQQLAEYQELLDVK	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	4574100	3758200	3659800	14310	0	0	0	9842.4	0
DVNAAIATIK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Unmodified	245720000	256050000	273150000	3974700	4508200	4746400	132850	133720	0
DVNAAIATIK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Deamidation (N)	37668000	34936000	36168000	891930	712710	944530	0	0	0
DVNAAIATIKTK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Methyl (KR)	1350200	0	0	0	0	0	0	0	0
DVNAAIATIKTK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Unmodified	0	767470	975220	69382	67827	116150	0	0	0
DVNAAIATIKTKR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Methyl (KR)	664040	562190	868130	0	0	0	0	0	0
DVNAAIATIKTKR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Unmodified	420590	489400	513650	0	0	0	0	0	0
DVNQQEFVR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19	HUM	Unmodified	1652400	1583200	1944800	28984	21782	0	0	6514.4	0
DVNQQEFVRALAAFLKK	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19	HUMA	Unmodified	448140	334080	0	0	0	0	0	0	0
DVPAVEITHTFWER	MAOA	P21397	AOFA	HUMA	Unmodified	13079000	11689000	12967000	15423	12939	12324	0	0	0
DVPLGTPLCIIVEK	DLAT; DLAT; DLAT	P10515; A0A7P01	ODP2	HUMA	Unmodified	571730	679450	794770	8015.6	0	0	0	0	0
DVPVYLFSR	PGM2L1	Q6PCE3	PGM2L	HUM	Unmodified	1084500	979460	0	0	0	0	0	0	0
DVQDPFAPR	TCEAL6; TCEAL3; T	Q6IPX3; Q969E4;	TCAL6	HUM	Unmodified	1809400	1595100	2360200	203850	202020	227900	0	0	0
DVQEFIDNPKWYTDR	BCS1L; BCS1L	Q9Y276; C9J1S9	BCS1	HUMA	Unmodified	271580	0	340120	0	0	0	0	0	0
DVQEIFR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B	HUM	Unmodified	69525000	60552000	70952000	3464100	3040500	3490300	0	70332	0
DVQELLTQYTK	SRP54; SRP54; SRP5	P61011; G3V4F7;	SRP54	HUM/	Unmodified	1355400	1127000	1244800	0	0	0	0	0	0
DVQGTDASLDEELDR	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Unmodified	1616100	679190	743910	21119	18078	59339	0	0	0
DVQGTDASLDEELDRVK	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Unmodified	9403500	9045300	8640600	60752	0	0	0	0	12630
DVQGTDASLDEELDRVKMS	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Oxidation (M)	7933600	13749000	8759500	190160	93015	0	0	0	0
DVQKVVGFDAVMR	SEC24C; SEC24C	P53992; G5EA31	SC24C	HUM	Oxidation (M)	520900	657920	436350	35967	21161	40658	0	0	0
DVRDYFMPCPGR	HPX; HPX	P02790; Q9BS19	HEMO	HUM	Oxidation (M)	1762100	1459500	1902100	54722	54048	69501	0	0	0
DVRPVIVGAVVR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	2674800	2146000	2079000	89072	57190	77935	0	0	0
DVRQQYESVAAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Unmodified	1141000	825980	806310	0	475780	0	0	0	0
DVSELTGFPEMLGGR	ATIC; ATIC	P31939; F8WEF0	PUR9	HUMA	Oxidation (M)	5966700	5133800	5545000	71146	30641	73493	0	0	0
DVSGLRDVK	GTPBP4	Q9BZE4	GTPB4	HUM	Unmodified	0	713800	0	0	0	0	0	0	0
DVSGPMPDSYSPR	VARS1; VARS1; VAI	P26640; A0A140T	SYVC	HUMA	Oxidation (M)	414430	515940	621960	70794	61530	74665	0	0	0
DVSGSWERDQQVEAAQR	RETREG3; RETREG	Q86VR2; K7ELM	RETR3	HUM	Unmodified	509890	796540	0	0	0	0	0	0	0
DVSHEIIQHEVK	RBBP6; RBBP6	Q7Z6E9; A0A2R8	RBBP6	HUM	Unmodified	979320	743380	579490	31692	0	36556	0	0	0
DVSLGDWEFGKR	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182	HUM	Unmodified	415310	439660	366850	11576	16213	16964	8609.4	0	0
DVSLGTYGSR	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182	HUM	Unmodified	1110900	556920	900890	122290	188840	145380	0	0	0
DVSNLPCAKSNAALK	N/A	N/A	N/A		Unmodified	3990700	1391700	1658500	54084	0	66966	0	0	0
DVSSVELLMNNHQGIK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Oxidation (M);Deai	0	1724500	0	36130	130680	63820	0	0	0
DVTEAEQAEEQAR	TBL3; TBL3	Q12788; J3KNP2	TBL3	HUMA	Unmodified	0	634760	646950	0	0	0	0	0	0
DVTFSPATIENELIK	MANF; MANF	P55145; H7C2D6	MANF	HUM	Unmodified	349170	284260	304030	0	0	0	0	0	0
DVTGAEALLER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	2459300	2367000	2435000	161750	0	195000	0	0	0
DVTLENR	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUMA	Unmodified	0	0	1464300	93799	83144	106100	0	0	0
DVTLENRLQNMEVTDA	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUMA	Oxidation (M)	1496800	828770	1594300	171610	178480	157300	0	0	0
DVTNFTVGGFAPMSPR	SUPT5H	O00267	SPT5H	HUM.	Oxidation (M)	748940	669300	567590	62150	56908	44841	0	0	0
DVTNNVHYENYR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM/	Deamidation (N)	338510	545720	448680	0	0	0	0	0	0
DVTRGQAAVQQLQAEGLSPR	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1	HUMA	Unmodified	9371400	11027000	11494000	396380	327280	195530	50686	43894	41172
DVTVPELR	FDXR	P22570	ADRO	HUM	Unmodified	2431300	2626000	2327600	18519	0	20721	0	0	0
DVTYEEAK	RAB14; RAB14	P61106; X6RFL8	RAB14	HUM	Unmodified	0	1131000	1806600	0	0	0	0	0	0
DVVFLLDGSEGVR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	431160	295880	402000	0	0	9556.4	0	0	0
DVVFNYLHATAFQGTPLAQAVEGPSENVR	UQCRC1	P31930	QCR1	HUMA	Unmodified	1555200	318270	2006300	0	0	0	0	0	0
DVVGNDVATILSR	WASF2	Q9Y6W5	WASF2	HUM	Deamidation (N)	1006400	0	991520	73027	81831	65583	0	0	0
DVVICPDASLEDAKK	PARK7; PARK7; PAI	Q99497; K7ELW0	PARK7	HUM	Unmodified	10009000	7866300	9354800	634710	585600	553190	0	0	0
DVVLSIVNDLTIAESNCPRGAR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Methyl (KR);Deam	0	355920	0	0	0	0	0	0	0
DVVQAYPEVR	DHX9	Q08211	DHX9	HUMA	Unmodified	1747300	0	0	0	0	0	0	0	0
DVYEDELVPVFEAVGR	RBM47; RBM47; RB	A0AV96; D6RFL4	RBM47	HUM	Unmodified	155500	93937	156360	0	0	0	0	0	0
DVYLSPR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	14205000	16433000	14710000	928870	847590	956460	104270	79375	72660
DVYLSPRDDGYSTK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	12052000	9856300	12102000	456690	465200	472660	110360	76414	31224
DVYLSPRDDGYSTKDSYSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	3992600	3311800	4603200	108760	180840	226720	0	27312	0
DVYTGDALR	PSMB1	P20618	PSB1	HUMA	Unmodified	0	1384800	1230100	0	0	60358	0	0	0
DVYVQLYLQHLTAR	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Unmodified	1135200	0	0	0	0	0	0	0	0
DWEAIASR	YLPM1; YLPM1	P49750; F8VU51	YLPM1	HUM	Unmodified	256310	263750	253280	0	0	0	0	0	0
DWEQFHQPR	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	424110	763940	651160	0	0	0	0	0	0
DWHGVPGQVDAAMAGR	VTN	P04004	VTNC	HUM/	Oxidation (M)	1670600	2450000	1969600	146320	148180	227140	58594	48996	0
DWILPSDYDHAEAEAR	CALU; CALU	O43852; H0Y875	CALU	HUM/	Unmodified	0	358590	525890	0	0	0	0	0	0
DWKTLQALLSGVNK	GJB3	O75712	CXB3	HUMA	Acetyl (Protein N-t	0	177030	0	0	0	0	0	0	0
DWSHYFK	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	459320	549680	584130	0	0	0	0	0	0
DWVLNEFK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUM	Unmodified	4072500	1547500	1433100	57474	33337	0	0	0	0
DWVLNEFK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	Deamidation (N)	749660	883450	664560	0	0	0	0	0	0
DYAAYNVLDDPELR	GLRX5	Q86SX6	GLRX5	HUM	Unmodified	3335300	2862100	2600400	0	0	0	0	0	0
DYAFVHFEDR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	1249300	1142900	1359500	0	0	0	0	0	0
DYALHWLVLGTHTSDEQNHLVVAR	RBBP7; RBBP7; RBI	Q16576; C9J7L0;	RBBP7	HUM	Deamidation (N)	378150	302570	486770	0	0	0	0	0	0
DYALHWLVLGTHTSDEQNHLVVAR	RBBP7; RBBP7; RBI	Q16576; C9J7L0;	RBBP7	HUM	Unmodified	0	0	522900	0	0	0	0	0	0
DYAPPRDYTYR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	0	1002000	0	0	0	0	0	0	0
DYDAMGSQTK	RUVBL2; RUVBL2	Q9Y230; M0R0Y	RUVB2	HUM	Oxidation (M)	250930	394170	275340	0	0	0	0	0	0
DYDDMSPR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	34652000	31942000	33420000	3395200	2651500	3282600	0	0	0
DYDSLAQPGFFDR	COL6A2	P12110	CO6A2	HUM	Unmodified	281400	216840	249600	13796	15808	19604	0	5085.6	0
DYDVDHPGEADSVLR	SUGP2; SUGP2; SUG	Q8IX01; M0R2Z9	SUGP2	HUM	Unmodified	627330	459390	490740	0	102690	0	0	0	0
DYFEEYGK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Unmodified	15964000	19797000	16205000	79541	72726	87324	0	0	0
DYFEEYGKIDTIEIITDR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Unmodified	929370	0	890600	0	0	14192	0	0	0
DYFEQYGK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Unmodified	6435000	7057500	6771600	0	30751	32975	0	0	0
DYFMPCPGR	HPX; HPX	P02790; Q9BS19	HEMO	HUM	Oxidation (M)	976240	866840	1039500	46081	44030	41294	0	0	0
DYGHSSSRDDYPSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	5481600	5597700	0	259290	0	0	0	0	0
DYGNSPLHR	PTBP1; PTBP1; PTB	P26599; A0A087	PTBP1	HUM	Unmodified	1377800	1145100	1199400	351960	0	0	0	0	0
DYGVLLEGSGLALR	PRDX3	P30048	PRDX3	HUM	Unmodified	30613000	20934000	32838000	47596	43574	52743	50011	53837	62034
DYGVQLVEEGADTFTAK	MRPL15; MRPL15; I	Q9P015; E5RHF4	RM15	HUMA	Unmodified	186720	0	836300	0	0	0	0	0	0
DYGVYLEDSGHTLR	PRDX4; PRDX4	Q13162; H7C3T4	PRDX4	HUM	Unmodified	2954300	489130	708940	0	0	0	0	0	0
DYHFVTSR	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1	HUMA	Unmodified	0	0	941850	0	0	27154	0	0	0
DYIPVDQEELR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	670480	804410	905630	0	0	0	0	0	0

DYIPVDQEELRDYVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	0	5076900	0	0	0	0	0	0	0	0
DYKVDQEIINIMQDR	NDUFB10; NDUFB1	O96000; H3BV16	NDUBA_HUM	Oxidation (M)	2514000	1521700	2293600	26688	0	0	0	0	0	0
DYLDFLDDEEDQGIYQSK	MCM3	P25205	MCM3_HUM	Unmodified	0	0	532680	0	0	0	0	0	0	0
DYLEHITSIGPR	ERMP1; ERMP1	Q7Z2K6; E7ER77	ERMP1_HUM	Unmodified	2016100	1932300	3106600	24321	0	22158	0	0	0	0
DYLHLPPEIVPATLR	RPS10; RPS10-NUD	P46783; A0A2R8	RS10_HUMA	Unmodified	1165600	1363600	1243600	0	0	0	0	0	0	0
DYNVTANSKLVIITAGAR	LDHA; LDHA; LDH	P00338; F5GXY2;	LDHA_HUM	Deamidation (N)	0	996150	634150	0	0	0	0	0	0	0
DYQTSPLLETQAEDHPPR	SCIN	Q9Y6U3	ADSV_HUM	Unmodified	3768100	2709800	3637200	0	46835	0	0	0	0	0
DYSGQGVVKLDVQPK	WDR1	O75083	WDR1_HUM	Unmodified	1976300	2125600	1786700	197130	108340	106550	0	0	40692	0
DYSGYQR	CAPRIN1; CAPRIN1	Q14444; G3V153	CAPR1_HUM	Unmodified	1619800	1461000	1542800	136700	183900	150840	0	0	0	0
DYSGYQRDGYQQNFK	CAPRIN1; CAPRIN1	Q14444; G3V153	CAPR1_HUM	Unmodified	726510	1716200	595400	21027	38761	34632	0	0	0	0
DYTGEDVTPQNFLAVLR	LGMN; LGMN; LGM	Q99538; G3V2T4;	LGMN_HUM	Unmodified	1625900	1155200	1555000	0	0	0	0	0	0	0
DYTGEDVTPQNFLAVLR	LGMN; LGMN; LGM	Q99538; G3V2T4;	LGMN_HUM	Deamidation (N)	91138	78735	89673	0	0	0	0	0	0	0
DYTNLPEAAPLLTILDMSAR	NXN; NXN; NXN	Q6DKJ4; I3L4V6;	NXN_HUMA	Oxidation (M)	37338	14590	34112	0	0	0	0	0	0	0
DYTQMNELQR	GPX1; GPX1; GPX1	P07203; A0A7Z	GPX1_HUMA	Oxidation (M)	376770	580890	482940	28242	51718	47527	0	0	0	0
DYTRPDLPSGDGQPALDPAIAAAFAK	PTBP2; PTBP2; PTB	Q9UKA9; A0A6Q	PTBP2_HUM	Unmodified	7406100	5131200	6148500	0	0	0	0	0	0	0
DYTYEELLNR	EIF2S2	P20042	IF2B_HUMA	Unmodified	1265100	1454700	1898300	22964	19342	13389	0	0	0	0
DYTYRDPPPAYR	N/A	N/A	N/A	Unmodified	648820	10781000	852640	376610	0	0	0	0	0	0
DYTYRDYGHSSSRDDYPSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	1367200	2538300	921720	117610	63225	0	0	0	0	0
DYVDLFR	PRKDC	P78527	PRKDC_HUM	Unmodified	866020	820660	583970	0	0	0	0	0	0	0
DYYDRMYSYPAR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Oxidation (M)	6238900	6421800	7516900	170340	292300	220940	0	0	0	0
EAAAAAAAAVAAAAAAAAAAEPYPVSGAK	ALKBH5	Q6P6C2	ALKB5_HUM	Unmodified	576720	342110	288060	0	0	0	0	0	0	0
EAAAAGLPGLAR	CPD	O75976	CBPD_HUM	Unmodified	625260	910160	855070	73402	0	15601	0	0	0	0
EAAAALVEEETR	BCAS2	O75934	SPF27_HUM	Unmodified	782850	650870	565390	0	0	42577	0	0	0	0
EAAAALVEEETRR	BCAS2	O75934	SPF27_HUM	Unmodified	7798000	7810300	9025800	0	323550	230910	0	0	0	0
EAAATEIR	CTBP2	P56545	CTBP2_HUM	Unmodified	3081800	0	457550	0	0	0	0	0	0	0
EAACLQQTQIEEAR	AGRN; AGRN; AGR	O00468; A0A494	AGRIN_HUM	Unmodified	417180	427040	0	69173	112220	118420	0	0	0	0
EAADGYQR	STIP1; STIP1	P31948; H0YGI8	STIP1_HUMA	Unmodified	676580	433380	812070	12037	13260	19229	0	0	0	0
EAADWVSGHFPSPIR	POLD1; POLD1; POL	P28340; M0QXE6	DPOD1_HUM	Unmodified	391450	322170	381470	0	0	0	0	0	0	0
EAAEAGAEAR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	2312500	2190700	2943500	21483	100790	86339	0	0	0	0
EAAEGLRVATNAAAQNAIKK	TLN2	Q9Y4G6	TLN2_HUMA	Methyl (KR);Deam	211960	0	0	0	0	0	0	0	0	0
EAAELEGK	ACIN1	E7EQT4	E7EQT4_HU	Unmodified	0	0	0	0	0	0	0	0	0	0
EAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E_HUMA	Deamidation (N)	18971000	24409000	21567000	421080	405580	364970	0	0	0	0
EAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E_HUMA	Unmodified	13528000	13402000	15637000	416390	300210	383140	0	0	0	0
EAAEQDVEK	RPL13; RPL13	P26373; J3KS98	RL13_HUMA	Unmodified	0	1381300	1050100	0	0	0	0	0	0	0
EAAFDDAVEER	RBBP4; RBBP4; RBI	Q09028; E9PIC4;	RBBP4_HUM	Unmodified	1223500	1295500	960600	0	0	31737	0	0	0	0
EAAFSLAEAK	ATP6V1D; ATP6V1I	Q9Y5K8; G3V3T3	VATD_HUM	Unmodified	612950	354940	0	0	0	11567	0	0	0	0
EAAGKSSGPTSLFAVTVAPPGAR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	14498000	11438000	13948000	973650	1033100	894100	176840	235990	261440	0
EAAGKSSGPTSLFAVTVAPPGAR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Methyl (KR)	2144100	2333000	2389200	188550	163390	181370	0	52117	44013	0
EAAIVDPVQPQK	HAGH; HAGH; HAG	Q16775; H3BPK3	GLO2_HUMA	Unmodified	0	0	0	0	0	0	0	0	0	0
EAALEAAVLNKEE	FAM120A; FAM120	Q9NZB2; A0A0C	F120A_HUM	Unmodified	2355400	2198800	1575500	769300	185750	802520	0	0	0	0
EAALEAAVLNKEE	FAM120A; FAM120	Q9NZB2; A0A0C	F120A_HUM	Deamidation (N)	0	0	795400	84538	101220	88893	0	0	0	0
EAALGAGFSDK	HADHB; HADHB; H	P55084; C9JEY0;	ECHB_HUMA	Unmodified	4907800	4756200	4806800	152800	160010	226940	0	0	0	0
EAALPPVSPLK	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Unmodified	2397200	2199700	2495100	163520	141720	127720	0	0	13864	0
EAALSTALSEK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	1368200	5159400	6632600	0	0	26642	0	0	0	0
EAALVQQEEEK	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	489760	617030	697080	0	0	0	0	0	0	0
EAALVQQEEEKAEQR	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	1421500	1499000	1597000	119100	0	0	0	0	0	0
EAAQEAVK	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR_HUM	Unmodified	441900	1202200	713620	19989	0	0	0	0	0	0
EAATLEVERPLPMEVEK	HDGF	P51858	HDGF_HUMA	Oxidation (M)	5301800	6284200	5954600	221940	184360	174420	0	19696	0	0
EAATLEVERPLPMEVEKNSTPSEPGSGR	HDGF	P51858	HDGF_HUMA	Oxidation (M);Deam	10328000	8211200	1516200	0	337700	0	0	0	0	0
EAAYHPEVAPDVR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1993100	0	2374800	0	0	0	0	0	0	0
EADASPASAGICR	NUP85; NUP85; NUP	Q9BW27; J3QL54	NUP85_HUM	Unmodified	633090	956140	767190	69977	0	55865	0	0	0	0
EADDIVNWLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	24445000	22122000	21423000	175990	169040	146320	11821	0	0	0
EADDIVNWLKK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	961760	796140	1352100	31029	0	0	0	0	0	0
EADESLNFEEQILEAAK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	839190	200820	648360	0	0	0	0	0	0	0
EADGAGEQMRPLLTR	SLC4A7	E9PFN4	E9PFN4_HU	Unmodified	1575000	448420	0	0	0	0	0	0	0	0
EADGSETPEPFAAEAK	SND1	Q7KZF4	SND1_HUMA	Unmodified	5665000	5207900	5953600	581230	473350	695500	0	0	0	0
EADGSLQPLPQR	AARS2	Q5JTZ9	SYAM_HUM	Unmodified	0	0	0	0	0	0	0	0	0	0
EADIDGDGQVNYEEFVQMMTAK	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Oxidation (M)	1862800	1096700	0	122870	178610	205870	0	0	0	0
EADLDVATITK	NUP107	P57740	NU107_HUM	Unmodified	1447900	525440	523780	0	0	0	0	0	0	0
EADLLAAQSLVR	HIP1R	O75146	HIP1R_HUM	Unmodified	0	0	0	0	0	0	0	0	0	0
EADVDQDGRVNYEEFAR	CALML5	Q9NZT1	CALL5_HUM	Unmodified	3053800	2914200	3038900	28504	0	22004	0	0	0	0
EADVDQDGRVNYEEFAR	CALML5	Q9NZT1	CALL5_HUM	Deamidation (N)	0	1472300	1181200	0	0	0	0	0	0	0
EADYVAQATR	HEBP1; HEBP1	Q9NRV9; A0A3B	HEBP1_HUM	Unmodified	5898100	6522800	5372000	288530	389800	339510	0	0	0	0
EAEAAIYHLQLFEELR	PKM; PKM	P14618; B4DNK4	KPYM_HUM	Unmodified	3626400	817460	4001000	12786	0	0	0	0	0	0
EAEAAIYHLQLFEELRR	PKM; PKM	P14618; B4DNK4	KPYM_HUM	Unmodified	95303000	62737000	104590000	35889	21469	37851	27923	0	0	0
EAEAAMFHR	PKM; PKM	H3BTN5; H3BR7(	H3BTN5_HU	Oxidation (M)	899660	931960	850400	0	0	0	0	0	0	0
EAEALLQSMGLTPESPIVPPPMSPSSK	DYNC1I2; DYNC1I2;	E7EQU2; E7EQL4	E7EQU2_HU	Oxidation (M)	8018800	9796800	10501000	132600	138540	39778	0	0	0	0
EAEALTQR	MYH14; MYH14; MY	Q7Z406; A1L2Z2;	MYH14_HUM	Unmodified	6111000	6401400	6895500	98235	159230	144660	0	0	0	0
EAEDELSAR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM_HUM	Unmodified	3035200	2677100	0	270110	223180	318910	0	0	0	0
EAEDTQVFGDLPRPR	AKT1S1	Q96B36	AKTS1_HUM	Unmodified	0	865110	825020	87055	90387	48002	0	0	0	0
EAEEEFWYR	NDUFB9; NDUFB9;	Q9Y6M9; E7EWZ	NDUB9_HUM	Unmodified	527850	660400	594750	0	0	0	0	0	0	0
EAEEKEKEGIVKQDSLVINLNR	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	0	0	2646800	0	0	0	0	0	0	0
EAEEVYR	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2_HUM	Unmodified	2588200	2469100	2072200	483250	369460	217250	0	0	0	0
EAEEVYRNSMPASSFQQQK	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2_HUM	Oxidation (M);Deam	11768000	10660000	10835000	597270	1013300	376790	0	0	0	0
EAEILEVLR	CPOX	P36551	HEM6_HUM	Unmodified	4580000	3999700	4039500	19389	0	22451	0	0	0	0
EAEKLESEHPDQAQAILSR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	0	1372500	1478800	59929	0	43909	0	0	0	0
EAENERLRR	PLEC	Q15149	PLEC_HUMA	3 Methyl (KR)	237180	0	206560	56655	0	0	0	917910	0	0
EAENPEGEEK	HDGF	P51858	HDGF_HUMA	Unmodified	293910	294260	403350	34283	29816	25795	0	0	0	0
EAENPEGEEKEAATLEVERPLPMEVEK	HDGF	P51858	HDGF_HUMA	Oxidation (M)	5587200	4829800	4404200	128150	0	0	0	0	0	0
EAENPEGEEKEAATLEVERPLPMEVEKNSTPSEPGSGR	HDGF	P51858	HDGF_HUMA	Oxidation (M);Deam	11591000	10704000	11336000	134080	0	0	0	0	0	0
EAEQMGNELER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M)	2847800	2412000	3207500	0	0	0	0	0	0	0
EAEQMGNELER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M);Deam	0	721700	502600	0	0	0	0	0	0	0
EAESLIAKK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Unmodified	716480	241770	434460	0	0	0	0	0	0	0
EAESSPFVER	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	50620000	50211000	55151000	970200	930600	1065000	0	0	0	0
EAEVGELQR	TUFT1; TUFT1	Q9NNX1; A6PVU	TUFT1_HUM	Unmodified	417720	403440	322510	0	45576	0	0	0	0	0
EAEVVLCGGTESMSQAPYCVR	ACAA2; ACAA2; AC	P42765; A0A0B4	THIM_HUMA	Oxidation (M)	716390	1062100	745690	0	0	0	0	0	0	0
EAEYFELPELVR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	17663000	22216000	19302000	34803	0	0	0	0	17280	0
EAEYFELPELVRR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	10998000	11080000	8351000	41901	20455	13504	36776	28812	34016	0
EAFAGDDVIRDFLK	UTP14A; UTP14C	Q9BVJ6; Q5TAP6	UTI14A_HUM	Unmodified	909330	724110	791450	0	0	0	0	0	0	0
EAFDEVDMAHR	ADPRS	Q9NX46	ADPRS_HUM	Oxidation (M)	1464800	843370	644700	0	0	70180	0	0	0	0
EAFEISK	YWHAB; YWHAZ; Y	P31946; P63104; (	1433B_HUM	Unmodified	1100900	1101200	1688500	0	0	0	0	0	0	0
EAFLNTEDKGDSLDSVEALIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Deamidation (N)	692800	0	1356800	0	0	0	0	0	0	0
EAFNIGR	PIGS	Q96S52	PIGS_HUMA	Unmodified	1161300	1162800	966730	0	0	0	0	0	0	0
EAFQLFDR	MYL6; MYL6; MYL	P60660; G3V1Y7;	MYL6_HUM	Unmodified	6217800	6444500	6232200	283210	342620	266950	49745	56588	0	0
EAFQLFDRTGDGK	MYL6; MYL6; MYL	P60660; G8JLA2;	MYL6_HUM	Unmodified	438560	431900	598310	0	0	0	0	0	0	0
EAFQPQEPDFPPPPPDLEQLR	VCL	P18206	VINC_HUMA	Unmodified	1064400	1229400	1714100	0	0	0	0	0	0	0
EAFRVFDKDGNGYISAAELR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Deamidation (N)	0	678570	817190	0	0	0	0	0	0	0
EAFSLFDK	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Unmodified	1221400	702940	1019400	15145	0	10005	7996.7	0	0	0
EAFSLFDKDGDGTITTK	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Unmodified	17347000	15016000	13459000	37399	56749	21198	0	0	0	0
EAFSLFDKDGDGTITTKELGTVMR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Oxidation (M)	2808100	0	0	0	0	0	0	0	0	0
EAFVHVVTLEDMR	RBM12	Q9NTZ6	RBM12_HUM	Oxidation (M)	1603500	1070600	1397500	0	29360	0	0	0	0	0
EAGAGGLAIAVEGPSK	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA_HUMA	Unmodified	3223400	4036100	3485300	172270	153650	121970	74121	66960	0	0
EAGAGGLSIAVEGPSK	FLNC; FLNB; FLNB	Q14315; O75369;	FLNC_HUMA	Unmodified	950400	920570	1048200	116890	147320	146680	0	0	0	0
EAGDVCYADVYR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	0	0	1964400	101840	0	107080	0	0	0	0
EAGDVCYADVYRDGTGVVEFVR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	4666500	0	3219700	0	0	0	0	0	0	0
EAGEDEEGFLSK	DNAJA3	Q96EY1	DNJA3_HUM	Unmodified	552770	0	422920	0	0	0	0	0	0	0
EAGELKPEEEITVGPVQK	COPB1	P53618	COPB_HUMA	Unmodified	7260400	4931000	5694200	459000	407280	359100	0	0	0	0
EAGENWQENPETYEDSFYKR	CACNA2D1; CACNA	P54289; H0Y715	CA2D1_HUM	Unmodified	883790	1413400	0	0	0	0	0	0	0	0
EAGEQGDIEPR	G3BP1; G3BP1; G3B	Q13283; A0A7Z	G3BP1_HUM	Unmodified	7723800	7073000	6849700	332760	293590	330830	0	0	0	0
EAGFLRPVTIFGPIADVAR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1_HUMAN	Unmodified	2935400	2553100	2511800	0	0	0	0	0	0	0
EAGGAFGKREQAEEERYFR	ATP5IF1; ATP5IF1	Q9UII2; A0A0B4	ATIF1_HUM	Unmodified	2860500	3816500	6121300	248550	0	142430	0	38163	0	0
EAGGGGVGGPGAK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	8701200	27037000	11853000	3195400	1918900	3429000	0	452110	368670	0
EAGGNYTPALTEQEVYAQVAR	SIN3A	Q96ST3	SIN3A_HUM	Unmodified	0	0	0	0	0	0	0	0	0	0
EAGGNYTPALTEQEVYAQVAR	SIN3A	Q96ST3	SIN3A_HUM	Deamidation (N)	378800	818900	552530	0	0	0	0	0	0	0
EAGITEKVVFEQTK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMA	Unmodified	4636400	5406900	4562200	35152	37674	49192	0	0	0	0
EAGITEKVVFEQTK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMA	Methyl (KR)	9338700	7258400	7242000	0	0	0	0	0	0	0
EAGMQPQLQIR	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Oxidation (M)	1898900	1919100	1743700	118650	198710	170630	0	0	0	0
EAGNPGSLFGYSVALHR	ITGA3; ITGA3	P26006; D6R9X8	ITA3_HUMA	Unmodified	2291100	0	0	0	0	0	0	0	0	0
EAGPGRVEPGSLESSPGLGRGR	LARP4B; LARP4B	Q92615; H0Y4V9	LAR4B_HUM	2 Methyl (KR)	868420	0	925500	0	0	0	0	0	0	0
EAGPSVAVDSSGR	PKP2	Q99959	PKP2_HUMA	Unmodified	508260	567240	575410	108360	52367	217240	0	0	0	0
EAGSVSLR	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Unmodified	3654400	4266500	3964300	0	0	423240	0	0	0	0
EAGTKEEPVTADVINPMALR	SART1	O43290	SNUT1_HUM	Oxidation (M)	2614600	3401000	2431000	84938	81103	0	0	0	0	0
EAGVFVPR	ACLY	P53396	ACLY_HUMA	Unmodified	4484600	2862100	3462800	232940	189500	254250	0	0	0	0
EAGVLMYR	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA_HUM	Oxidation (M)	809310	0	250420	0	0	0	0	0	0	0
EAHAQSIGMNR	MCM3; MCM3; MCI	P25205; A0A499	MCM3_HUM	Oxidation (M)	814460	1068500	1284900	0	0	0	0	0	0	0
EAHDAFRSSLSSAQADFNQLAELDR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	0	0	297900	0	0	0	0	0	0	0
EAHLTPYSLQAIK	RFC1; RFC1	P35251; H0Y9P8	RFC1_HUMA	Unmodified	0	504870	0	0	0	0	0	9195.9	0	0
EAHQLFLEPEVLDPESVELK	FEN1; FEN1	P39748; I3L3E9	FEN1_HUMA	Unmodified	23621000	18876000	19739000	16032	0	0	0	0	22109	0
EAIANYVK	SCO1; SCO1	O75880; J3QL56	SCO1_HUMA	Unmodified	1768000	1704000	735530	0	0	0	0	0	0	0
EAIDSPVSFLALHNQIR	UPF1	Q92900	RENT1_HUM	Unmodified	1898900	1422000	1591100	0	0	0	0	0	0	0
EAIDSYIK	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	6529200	6829000	6632300	48528	0	43684	0	0	0	0
EAIEGTYIDK	RPS11; RPS11	P62280; M0QZC5	RS11_HUMA	Unmodified	1703400	1634500	1025200	46072	0	44978	0	0	0	0

EAIEGTYIDKK	RPS11; RPS11	P62280; M0QZC5	RS11_HUMA	Unmodified	2178400	1577800	1646200	0	0	0	0	0	0
EAIENATTNAEVLR	CHMP4A; CHMP4A;	Q9BY43; E9PQI5	CHM4A_HUM	Unmodified	1573700	1830200	1902500	38397	177600	114630	0	0	0
EAIILDNLQEELPEISK	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2_HUM	Unmodified	1081100	528080	0	0	0	0	0	0	0
EAIIPGSVYDR	UPF1	Q92900	RENT1_HUM	Unmodified	9634600	6364800	5395800	279840	0	370610	0	0	21479
EAILAIHK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	3575700	2371800	2687900	166020	208690	184570	0	0	0
EAILAIHKEAQR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	1081600	1209000	1167500	244420	343490	255290	0	0	0
EAINVEQAFQTIAR	RAB7A; RAB7A; RA	P51149; C9J4S4;	RAB7A_HUM	Unmodified	39316000	45183000	44543000	250990	0	37255	42411	70374	48219
EAIQHPADEK	CYRIB; CYRIB; CYR	Q9NUQ9; E5RIR8	CYRIB_HUM	Unmodified	294220	161520	308420	0	0	0	0	0	0
EAIQHPADEKLQEK	CYRIB; CYRIB; CYR	Q9NUQ9; E5RIR8	CYRIB_HUM	Unmodified	795820	1912300	2147600	25250	19914	0	0	0	0
EAIQLIAR	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUM	Unmodified	2241900	2217600	2673500	0	9142.4	0	0	0	0
EAITHLLGVALTR	NCAPD2; NCAPD2	Q15021; E7EN77	CND1_HUM	Unmodified	391120	0	212830	0	0	0	0	0	0
EAKNSDVLQSPLDSAARDEL	COLGALT1	Q8NBJ5	GT251_HUM	Deamidation (N)	10244000	14505000	10067000	461750	387510	213850	0	19667	39813
EAKPDELMDSK	VAPA	Q9P0L0	VAPA_HUM	Oxidation (M)	2671600	0	0	0	0	0	0	0	0
EALAEAALESPRPALVR	SLC9A3R1; SLC9A3	O14745; J3QRP6	NHRF1_HUM	Unmodified	9585300	8110700	6606200	271040	282120	291970	44209	0	0
EALAFIIR	PES1; PES1; PES1	O00541; B3KXD6	PESC_HUM	Unmodified	327140	292840	297840	0	0	0	0	0	0
EALASLPSSPGLLQSLLER	KDM5C	P41229	KDM5C_HUM	Unmodified	258160	84871	284430	0	0	0	0	0	0
EALDLGITGPEGIEISRPEELEAEATHR	DPYSL5	Q9BPU6	DPYL5_HUM	Unmodified	1920800	0	1840700	0	0	0	0	0	0
EALEAMQDLAMYINEVKR	VAV2	P52735	VAV2_HUMA	Methyl (KR)	0	285090	0	0	0	0	0	0	0
EALEEETVAR	RABEP2; RABEP2	Q9H5N1; B4DHR	RABE2_HUM	Unmodified	1411300	252480	376780	0	0	0	0	0	0
EALEKTEK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	1566300	1561000	2005300	115380	103000	125340	0	0	0
EALEKTEKQLEAIDQLHLEYAKR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	4223300	2429400	4841600	0	0	0	0	0	0
EALELTDTGLLSGSEER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1029300	867070	712000	0	0	0	0	0	0
EALENANTNTEVLK	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	1995100	1450400	2216300	0	0	232370	0	0	0
EALENANTNTEVLK	CHMP4B	Q9H444	CHM4B_HUM	Deamidation (N)	0	720280	380750	0	0	0	0	0	0
EALERRPENMKR	FRYL; FRYL; FRYL	O94915; F2Z2S2;	FRYL_HUMA	2 Methyl (KR)	0	0	0	0	0	0	39189	27707	27158
EALERTEK	ACTN1; ACTN1; AC	P12814; A0A7I2V	ACTN1_HUM	Unmodified	122330	590750	483610	0	0	0	0	0	0
EALEYQR	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2_HUM	Unmodified	2320100	1739600	2232500	0	0	0	0	0	0
EALFNEFVAAAR	TCERG1; TCERG1;	O14776; A0A7P0	TCRG1_HUM	Unmodified	1242100	1054800	1223400	13178	17769	13150	0	0	0
EALGDAQQSVR	DNAJC7; DNAJC7;	Q99615; A0A6B	DNJC7_HUM	Unmodified	0	354480	777810	0	0	0	0	0	0
EALGGQALYPHVLVK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	3713700	6045200	8407700	54618	37544	79060	0	0	0
EALGLGPPAAQLTPPPAPVGLR	RAVER1; RAVER1;	Q8IY67; E9PAU2	RAVR1_HUM	Unmodified	954070	788360	853610	0	0	0	0	0	0
EALIQCLKEEK	CDK5RAP2; CDK5R	Q96SN8; F8WCI3	CK5P2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EALLQASR	MSN	P26038	MOES_HUM	Unmodified	2216400	2294900	2169300	70864	59401	91798	0	0	0
EALLSIGK	FAM136A; FAM136	Q96C01; E7EQY1	F136A_HUM	Unmodified	606560	666050	513340	36798	28240	0	0	0	0
EALLSSAVDHGSDEVK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Unmodified	6345900	3883600	4348000	59970	0	0	0	0	0
EALLSSAVDHGSDEVKFR	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Unmodified	779580	692960	645510	0	0	0	0	0	0
EALPAPSDDATALMTDPK	GPX1; GPX1	P07203; A0A2R8	GPX1_HUMA	Oxidation (M)	1124800	923390	1464100	0	0	94094	0	0	0
EALPDHEDEIPETVR	PHF8; PHF8; PHF8; I	Q9UPP1; H7BZB7	PHF8_HUMA	Unmodified	382860	1207200	1035200	0	0	0	0	0	0
EALPGSGQAR	ABHD14B; ABHD14	Q96IU4; F8W9U3	ABHEB_HUM	Unmodified	1670600	1992800	1775300	56195	42878	0	0	0	0
EALQEKEEQK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM	Unmodified	202390	229940	260710	26925	0	0	0	0	0
EALQEKEEQKTMK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM	Oxidation (M)	486510	300070	522570	29154	45839	32398	0	0	0
EALQGVGDMGR	SAA4; SAA2-SAA4	P35542; A0A096I	SAA4_HUMA	Oxidation (M)	1094700	1150100	1352600	0	0	0	0	0	0
EALSGGEASLVEK	MAP7D2	Q96T17	MA7D2_HUM	Unmodified	2412600	2065900	1656700	149320	134490	137750	0	0	0
EALTYDGALLGDR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H_HUMA	Unmodified	0	944780	2005600	0	0	0	0	0	0
EALVDTLTGILSPVQEVR	IPO9	Q96P70	IPO9_HUMA	Unmodified	614720	92285	465710	0	0	0	0	0	0
EAMDPIAELLSQLSGVRR	KCMF1	Q9P0J7	KCMF1_HUM	Oxidation (M)	850120	260260	470210	0	0	0	0	0	0
EAMEADLKAAAEAAAEAK	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Oxidation (M)	0	0	2717900	0	35898	0	0	0	0
EAMEDGEIDGNKVTLDWAKPK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Oxidation (M)	3537600	4196400	9842900	0	0	43328	0	0	0
EAMEDGEIDGNKVTLDWAKPK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Oxidation (M);Deai	9839500	9155200	6063000	0	0	0	0	0	0
EAMEHPYFYTVVK	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Oxidation (M)	4517600	2826800	3429400	106500	73493	57230	164880	0	0
EAMEHPYFYTVVKDQAR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Oxidation (M)	11712000	12419000	13884000	499760	429340	526760	71630	0	0
EAMGIYISTLK	AHSA1; AHSA1; AH	O95433; H0YJU2	AHSA1_HUM	Oxidation (M)	0	0	3092000	0	0	0	0	0	0
EAMNDPLLER	DHX15	O43143	DHX15_HUM	Oxidation (M)	10646000	10059000	8647600	354130	361050	402180	0	0	0
EAMNDPLLER	DHX15	O43143	DHX15_HUM	Oxidation (M);Deai	2140600	1534000	0	0	0	0	0	0	0
EAMRIGAEVYHNLK	ENO1; ENO1; ENO1	P06733; K7EM90	ENOA_HUMA	Oxidation (M)	5574200	5574000	7283000	0	0	0	0	0	0
EAMVQAEEAAAEITR	NOP56; NOP56; NOP	O00567; A0A494	NOP56_HUM	Oxidation (M)	2755000	2386200	3170500	0	0	10402	0	0	0
EANAPGPVPGER	SUMF1; SUMF1; SU	Q8NBK3; F5GXA	SUMF1_HUM	Unmodified	0	2235700	0	0	0	0	0	0	0
EANELQR	IMPDH2; IMPDH1; I	P12268; P20839;	IMDH2_HUM	Unmodified	0	1035500	0	0	0	0	0	0	0
EANFTVSSMHGDMPQK	EIF4A3; EIF4A3	P38919; B3L3H2	IF4A3_HUMA	2 Oxidation (M)	2306400	2058300	2170400	0	0	0	0	0	0
EANFTVSSMHGDMPQKER	EIF4A3; EIF4A3	P38919; B3L3H2	IF4A3_HUMA	2 Oxidation (M)	2190300	2699700	1228500	0	44720	90496	0	0	0
EANGLGPQGFPELKNDTFLR	UROD; UROD; UROI	P06132; A0A1B0	DCUP_HUMA	Acetyl (Protein N-t	0	0	479860	0	0	0	0	0	0
EANIIVDR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	434140	0	0	0	0	0	0	0	0
EANLAASFGK	DLD; DLD	P09622; E9PEX6	DLDH_HUM	Unmodified	34361000	25766000	34761000	0	3512800	4572600	0	0	0
EANLLNAVIVQR	NSFL1C	Q9UNZ2	NSF1C_HUM	Unmodified	2346900	2151300	3152800	34444	47684	35569	0	0	0
EANMKCPQIVIAFYEER	CBX3	Q13185	CBX3_HUMA	Oxidation (M);Deai	441330	458360	506760	0	0	0	0	0	0
EANNFLWPFK	RPL7; RPL7	P18124; A8MUD5	RL7_HUMAN	Deamidation (N)	888090	720280	426990	0	0	0	0	0	0
EANNFLWPFK	RPL7; RPL7	P18124; A8MUD5	RL7_HUMAN	Unmodified	232540	180820	238370	0	0	0	0	0	0
EANQAINPK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	Unmodified	5336300	8485700	6193600	141060	100770	104140	0	0	0
EANQAINPK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	Deamidation (N)	3048100	3280300	3677600	117710	0	175610	0	0	0
EAPAGPLEEDDLEPLTLAPAPAPRPPQDLIGLR	SYMPK	Q92797	SYMPK_HUM	Unmodified	1178800	856550	0	0	0	0	0	0	0
EAPASVVPFVR	USP39; USP39; USP	Q53GS9; B9A018	SNUT2_HUM	Unmodified	9028300	12889000	12631000	1694000	2044700	1466500	185210	0	0
EAPATQASSTTQLTDTQVLAAENK	MAGED2; MAGED2	Q9UNF1; Q5H905	MAGD2_HUM	Oxidation (M)	0	3137700	3427000	151490	213450	0	0	0	0
EAPATSIATVLPQPMTSAMGK	NEDD1	Q8NHV4	NEDD1_HUM	2 Oxidation (M)	2192600	2659400	1709900	111060	0	0	0	0	0
EAPEELLAYEGVR	TBL3; TBL3	Q12788; J3KNP2	TBL3_HUMA	Unmodified	0	884200	1024300	0	0	0	0	0	0
EAPEISNMGMVGK	N/A	N/A	N/A	Oxidation (M)	0	1586800	2404900	0	116190	0	0	0	0
EAPEPMELDGPK	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Oxidation (M)	1269400	1557800	895140	41613	83660	61405	0	0	0
EAPEPMELDGPKGTGYIK	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Oxidation (M)	908470	1023500	810110	0	0	0	0	0	0
EAPGPAGGGGGGSR	TRIR; TRIR; TRIR; T	Q9BQ61; K7ELS0	TRIR_HUMA	Unmodified	2209300	2777400	2464000	421290	517390	493220	0	0	0
EAPILKEFKEEGEEIPR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	Unmodified	3668100	3554100	5169600	24473	0	0	13162	0	0
EAPNPIHLTVDTSLQNGR	EIF3F; EIF3F; EIF3F	O00303; A0A7Z7	EIF3F_HUMA	Deamidation (N)	490720	766500	642460	0	0	0	0	25594	0
EAPPMEKPEVVK	RPS15; RPS15; RPS1	P62841; K7EM56	RS15_HUMA	Oxidation (M)	1916600	1949300	2837000	59823	613560	154080	0	0	0
EAPPPLSPPQPASPAEEDKMPPYDEQTQAFIDAAQEAR	PRKCSH; PRKCSH	P14314; K7ELL7	GLU2B_HUM	Oxidation (M)	10399000	7458900	6920000	0	0	0	0	0	0
EAPVDVLTQIGR	TMEM109	Q9BVC6	TM109_HUM	Unmodified	13016000	13753000	10406000	694360	730510	640460	217010	223430	149580
EAPWPSAQSEIR	GAPVD1; GAPVD1	Q14C86; F8W9S7	GAPD1_HUM	Unmodified	2057500	1526400	1899300	98299	108460	101170	0	0	0
EAQAALAEAQEDLESER	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	934700	787680	1083900	0	0	0	0	0	0
EAQDDLVK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	2524900	2162000	0	0	0	0	0	0	0
EAQKELQEK	PRPF3	O43395	PRPF3_HUM	Unmodified	326060	222030	394880	28752	24388	32111	0	0	0
EAQKRWTR	CHD6	Q8TD26	CHD6_HUMA	3 Methyl (KR)	2545500	0	0	0	0	0	0	0	0
EAQLYAAQAHLK	NASP; NASP; NASP;	P49321; E9PRH9	NASP_HUMA	Unmodified	9976400	9493500	14059000	217810	0	441810	0	0	0
EAQMAAKLER	STMN1	P16949	STMN1_HUM	Oxidation (M)	16099000	11703000	19458000	0	0	0	48412	0	0
EAQNLSAMEIR	IARS2	Q9NSE4	SYIM_HUMA	Oxidation (M)	1540000	2122600	1512600	0	0	0	0	0	24443
EAQQYSEALASTR	GLIPR2; GLIPR2	Q9H4G4; Q5VZR	GAPR1_HUM	Unmodified	634410	0	1299000	0	0	0	0	0	0
EAQRDYLDFLDDEEDQGIYQSK	MCM3	P25205	MCM3_HUM	Unmodified	2808400	2333700	1452600	0	0	0	0	0	0
EAQTSFLHLGYLPNQLFR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Deamidation (N)	1680700	161060	2187200	0	0	0	0	0	0
EAQTSFLHLGYLPNQLFR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Unmodified	1997700	1308300	5146200	0	0	0	0	0	0
EAQVNVR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	7306400	7009200	5864600	678900	649600	748160	10410	0	0
EAQVNVRMDSFDEDLARPSGLLAQER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Oxidation (M)	4509800	3863400	3981600	0	0	0	0	0	0
EASDGEVR	DNAJC9	Q8WXX5	DNJC9_HUM	Unmodified	1526700	1195000	1668200	17992	26353	62129	0	0	0
EASGEAEAEAEEADSGPVPGGERPAGEGQGEPTSRPK	CAMSAP3	Q9P1Y5	CAMP3_HUM	Unmodified	1262400	1543700	1247700	384860	405890	368600	0	0	0
EASIDILHSIVK	PSMD11; PSMD11	O00231; J3QRY4	PSD11_HUM	Unmodified	911330	920390	866280	0	0	0	0	0	0
EASLGEASKLQQFLR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Methyl (KR)	1389300	1275900	905050	0	0	0	0	0	0
EASMEGIVTIVGLKPETTYAVR	NCAM1; NCAM1; N	P13591; A0A087	NCAM1_HUM	Oxidation (M)	2427100	0	0	0	0	0	0	0	0
EASRPPEEPSAPSPTLPAQFK	NELFA; NELFA; NEI	Q9H3P2; H0Y3X6	NELFA_HUM	Unmodified	7134200	8416300	7129600	663560	641540	644420	93694	0	0
EASSEELKAAYR	DNAJC11; DNAJC11	Q9NVH1; B1AK2	DJC11_HUM	Unmodified	871770	700250	0	0	11834	0	0	0	0
EASYSLIR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	374750	4678400	4240400	128150	139420	170880	0	0	0
EATADDLIK	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	0	3115100	3881400	94683	72924	113860	0	0	0
EATADDLIKVVEELTR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	933620	147360	449170	0	0	0	0	0	0
EATADDLIKVVEELTRIH	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	98817	0	0	0	0	0	0	0	0
EATDAIGHLDR	ILF3	Q12906	ILF3_HUMAN	Unmodified	1545700	1248000	1624600	0	0	0	0	0	0
EATDPRPCEVENAVESWR	CAPZA2; CAPZA2; C	P47755; A0A0D9	CAZA2_HUM	Unmodified	612160	0	388630	0	0	0	0	0	0
EATEQEIR	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4_HUM	Unmodified	3479300	4930700	997910	0	0	0	0	0	0
EATNDDPWGPSGQLMGEIAK	CLINT1	Q14677	EPN4_HUMA	Oxidation (M);Deai	342640	333500	250060	0	28530	0	0	0	0
EATNPPVIQEEKPK	PDIA3	P30101	PDIA3_HUM	Unmodified	16051000	18953000	17372000	335630	439470	401340	0	0	0
EATNPPVIQEEKPK	PDIA3	P30101	PDIA3_HUM	Methyl (KR)	7443000	6849000	6360800	409350	270200	0	0	0	0
EATPVVHETEPESGSQPR	PRRC2C; PRRC2C	Q99520; E7EPN9	PRC2C_HUM	Unmodified	652460	605880	671290	33823	0	24936	0	0	0
EATQILSVPK	TMPO	P42166	LAP2A_HUM	Unmodified	7526200	6442700	6952700	121350	50164	0	0	0	0
EATTDFTVDSRPLTQVGGDHIK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	3957700	4040400	4238300	365860	260350	219670	32072	38591	0
EATTEFSVDAR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	18366000	14570000	15745000	1491700	1332900	1775400	114930	95148	115430
EATTEFSVDARALTQTGGPHVKAR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	0	0	0	0	0	0	198780	112600	0
EATVKPFAIDIFPVTNK	SUMF2; SUMF2; SU	Q8NBJ7; J3QT17	SUMF2_HUM	Unmodified	716760	573390	713980	0	0	0	0	0	0
EATWTMSNITAGR	KPNA2; KPNA2; KPI	P52292; A0A7I2V	IMA1_HUMA	Oxidation (M)	705660	621470	679450	0	0	0	0	0	0
EAVAMESYAK	CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M)	680970	2094900	1268900	40427	32932	0	0	0	0
EAVAPVQEESDLEK	DYNC1I2; DYNC1I2;	Q13409; E7ERR6	DC1I2_HUM	Unmodified	2005600	1900500	1812100	119100	0	0	0	0	0
EAVAPVQEESDLEKK	DYNC1I2; DYNC1I2;	Q13409; E7ERR6	DC1I2_HUM	Unmodified	1101300	647550	969380	32791	0	0	0	0	0
EAVEAQIR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	1945200	3226100	2898900	84634	121330	86278	0	0	0
EAVEKEFEPLLNWMK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M)	3183100	3900900	4958300	0	0	0	0	0	0
EAVEKEFEPLLNWMK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M);Metl	609200	518110	677620	0	0	0	0	0	0
EAVEKEFEPLLNWMKDK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M)	10702000	5625200	12182000	0	0	0	0	0	0
EAVELPLTHFELYK	PSMC4	P43686	PRS6B_HUM	Unmodified	15811000	14239000	15466000	13903	0	0	0	0	0
EAVEQQKVKNNDLREK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	3 Methyl (KR);2 D	0	0	0	0	0	250430	0	0	0
EAVGDLLDAFK	EIF4G1; EIF4G1; EIF	Q04637; C9J2Z7	IF4G1_HUMA	Unmodified	1755400	2092200	2558000	0	0	12675	13104	16035	0
EAVIAAAFAK	CAPS; CAPS; CAPS	Q13938; A0A499	CAYP1_HUM	Unmodified	841650	721010	715250	84389	62181	67907	0	0	0

EAVLIDPVLETAPR	ETHE1; ETHE1; ETH	O95571; M0QY80	ETHE1	HUM	Unmodified	0	2491900	1488100	70881	55265	84851	0	0	0
EAVLKLSDAGITPLFLTR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	164460	116890	261620	0	0	0	0	0	0
EAVLLNLK	MRPL44	Q9H9J2	RM44	HUM	Unmodified	1298200	624800	997060	0	31792	11149	0	0	0
EAVLSLYR	MIEF1	L0R8F8	MIDUO	HUM	Unmodified	678260	784160	723080	0	0	0	0	0	0
EAVTEILGIEPDREK	TSN; TSN; TSN	Q15631; H7C1D4	TSN	HUM	Unmodified	2876500	3238600	2439500	0	15608	11866	0	0	0
EAVTFLRK	DLST	P36957	ODO2	HUM	Unmodified	1213600	1064700	1239600	0	1342100	0	474770	315680	0
EAYFWLR	STT3B	Q8TCJ2	STT3B	HUM	Unmodified	0	433050	279620	0	0	0	0	0	0
EAYPEEAYIADLDAK	ACLY	P53396	ACLY	HUM	Unmodified	5541600	10226000	4253100	0	158370	275380	0	0	0
EAYPGDVFYLHSR	ATP5F1A	P25705	ATPA	HUM	Unmodified	28907000	32250000	29101000	613100	700630	907380	73815	65926	0
EAYPGDVFYLHSRLLER	ATP5F1A	P25705	ATPA	HUM	Unmodified	380810	367740	471920	0	0	0	0	0	0
EAYVNANQAR	MCMBP	Q9BTE3	MCMBP	HUM	Unmodified	1067900	190940	728130	0	65896	48801	0	0	0
ECADLWPR	RPL23; RPL23	P62829; J3KTJ3	RL23	HUM	Unmodified	1138400	1103600	1171600	0	68613	50246	0	0	0
ECREPELGLEELLR	HSPBP1	Q9NZL4	HPBP1	HUM	Unmodified	506540	523840	572400	0	0	0	0	0	0
ECSVTSDLDFPTQVIPLK	EZH2; EZH2	Q15910; G3XAL2	EZH2	HUM	Unmodified	242310	168930	0	0	0	0	0	0	0
ECVLPGGETAGDMGK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Oxidation (M)	674590	526690	484120	0	0	0	0	0	0
ECVQQLAENTRYFR	SPTLC2	O15270	SPTC2	HUM	Unmodified	0	2802500	1898900	4439500	3342000	5752700	4443600	3660800	3713300
EDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Deamidation (N)	9956500	13763000	13404000	166470	129320	98426	0	0	0
EDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	2 Deamidation (N)	4904000	6450700	5659200	72059	0	0	0	0	0
EDAEAPGIR	HDGF	P51858	HDGF	HUM	Unmodified	665020	590120	552650	38482	20562	21306	0	0	0
EDAEAPGIRDHESL	HDGF	P51858	HDGF	HUM	Unmodified	431900	428890	423200	0	0	0	0	0	0
EDAPIGPHLQSMPSEQIR	EIF3A	Q14152	EIF3A	HUM	Oxidation (M)	1194300	1395200	1618700	0	33218	32222	0	0	0
EDAVSFAEK	NDUFS4	O43181	NDUS4	HUM	Unmodified	0	622770	0	0	0	0	0	0	0
EDDDDDLDLMPMGFPDIISCR	N/A	N/A	N/A		2 Oxidation (M)	0	5322400	2601500	0	0	0	0	0	0
EDDSIRPFK	EPHX1; EPHX1	P07099; B1AQP8	HYEP	HUM	Unmodified	329450	455830	865790	59784	0	0	0	0	0
EDEEEDDDVVAPKPPIEPEEEK	DYNC1I2; DYNC1I2;	Q13409; E7EQU2	DC1I2	HUM	Unmodified	956450	1137700	988450	0	0	0	0	0	0
EDEESSDLITVSTEEK	N/A	N/A	N/A		Unmodified	14810000	23407000	28925000	8923600	4898400	9877800	10437000	9188700	11186000
EDEPKDEGSVGNK	FGD5; FGD5	Q6ZNL6; A0A1W	FGD5	HUM	Methyl (KR)	2691500	3109700	2756900	340870	339890	395300	0	0	0
EDGLAQQQTQLNLR	FASN; FASN	P49327; A0A0U1	FAS	HUM	Unmodified	2357100	455320	1983300	51840	43429	0	0	0	0
EDHGRGYFEYIEENKYSR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	11577000	15182000	12556000	760690	356850	626750	118810	159660	0
EDIIQGFR	XRCC5	P13010	XRCC5	HUM	Unmodified	1105000	2039100	1919100	0	23525	10094	0	0	0
EDIQQFFEEFQSK	UBR7; UBR7; UBR7	Q8N806; H0YJM2	UBR7	HUM	Unmodified	701950	676590	699060	0	0	0	0	0	0
EDISSIEIVGGATR	HSPA4L; HSPA4L; H	O95757; E9PDE8	HS74L	HUM	Unmodified	1728000	0	787850	0	0	0	0	0	0
EDITQSAQHALR	ILF3	Q12906	ILF3	HUM	Unmodified	22619000	25554000	25907000	251830	214280	218590	0	0	0
EDIVVPVYLR	USP11; USP11	P51784; G5E9A6	UBP11	HUM	Unmodified	3653800	5172500	4631900	0	16119	0	0	0	0
EDIYSGGGGGGSR	HNRNPA0	Q13151	ROA0	HUM	Unmodified	2658500	2581300	2938900	124580	0	138640	0	0	0
EDLAAFVEELDKVESQER	TOP2B	Q02880	TOP2B	HUM	Unmodified	625370	524470	515590	0	0	0	0	0	0
EDLDKVEPAVIEAQNAVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	977440	689600	762770	0	0	0	0	0	0
EDLMGLAIGTHGANIQQAR	FXR2; FMR1; FMR1	P51116; Q06787;	FXR2	HUM	Oxidation (M)	5254800	4899100	4181700	26155	30529	0	0	0	0
EDLMGLAIGTHGSNIQQAR	FXR1; FXR1; FXR1	P51114; E7EU85	FXR1	HUM	Oxidation (M)	737830	1649500	670020	0	0	0	0	0	0
EDLPAENGETK	HMGN1; HMGN1; H	P05114; A6NL93	HMGN1	HUM	Deamidation (N)	3357300	1331900	3848600	53004	32578	0	0	0	0
EDLPAENGETKTEESPASDEAGEK	HMGN1; HMGN1; H	P05114; A6NL93	HMGN1	HUM	Deamidation (N)	1284800	827460	1194700	0	0	0	0	0	0
EDLRLPEGDLGK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14; I	IF5A1	HUM	Unmodified	5315200	7398100	6876300	58046	101850	52766	0	0	0
EDLRLPEGDLGKEIEQK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14; I	IF5A1	HUM	Unmodified	2376800	1886200	3068000	0	0	0	0	0	0
EDLVYQAK	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUM	Unmodified	1534800	1703000	1697500	0	25379	78957	0	0	0
EDLYLKPIQR	EEF2	P13639	EF2	HUM	Unmodified	1042300	1307800	4503600	91668	0	87053	0	0	0
EDMAALEK	TUBA1A; TUBA4A;	Q71U36; P68366;	TBA1A	HUM	Oxidation (M)	28471000	36941000	35854000	387810	423580	91045	0	0	0
EDMAALEKDYEEVGVDSVEGEGEEEGEEY	TUBA1A; TUBA1B	Q71U36; P68363	TBA1A	HUM	Oxidation (M)	4358900	6831000	6519700	0	0	0	0	0	0
EDMEYALR	SRSF9; SRSF9	Q13242; H0YIB4	SRSF9	HUM	Oxidation (M)	0	0	945850	0	0	0	0	0	0
EDMTYAVR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Oxidation (M)	1793300	3138000	2556800	131420	63671	100770	0	0	0
EDPLIIPVPASENPFR	GNG4	P50150	GBG4	HUM	Unmodified	364370	387540	443380	0	0	0	0	0	0
EDPNLVPSISNKR	COX5B	P10606	COX5B	HUM	Unmodified	1355900	0	1482000	50094	42295	0	0	0	0
EDQDKVAVLSQNR	ACAT2	Q9BWD1	THIC	HUM	Unmodified	493410	741510	432320	24906	0	0	0	0	0
EDQTEYLEER	HSP90AB4P; HSP90	Q58FF6; P08238;	H90B4	HUM	Unmodified	8676100	9191200	10875000	0	74183	89694	0	0	0
EDQTEYLEERR	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B	HUM	Unmodified	1014300	1008600	1007400	29792	28437	0	0	0	0
EDSGMVPLIIPVSVPVR	MIDEAS; MIDEAS; M	Q6PJG2; H7C1L3	MDEAS	HUM	Oxidation (M)	258250	190310	202280	0	0	0	0	0	0
EDSHPFDLGLYNEAVK	RPA3; RPA3	P35244; B5MC59	RFA3	HUM	Unmodified	921500	1235700	739960	0	0	0	0	0	0
EDSQRPGAHLTVK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Unmodified	30089000	29658000	35764000	194370	263640	1061700	0	75033	0
EDSQRPGAHLTVKK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EDSVKPGAHLTVK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3	HUM	Unmodified	20736000	27178000	24148000	571140	0	682860	0	14382	0
EDSVKPGAHLTVKK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3	HUM	Unmodified	4700900	5467200	7034400	214790	210860	169130	0	0	0
EDTEEHHLR	HNRNPA2B1; HNRN	P22626; Q32P51;	ROA2	HUM	Unmodified	1773800	0	0	16892	12326	0	0	0	0
EDTEEYNLR	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3	HUM	Unmodified	3593900	5574200	5064400	0	0	0	0	0	0
EDTEEYNLRDYFEK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3	HUM	Deamidation (N)	427740	0	442570	0	0	0	0	0	0
EDTEEYNLRDYFEK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3	HUM	Unmodified	0	0	3767000	0	0	0	0	0	0
EDVAAYITR	GPT2; GPT2	Q8TD30; H3BU54	ALAT2	HUM	Unmodified	651110	648000	2055000	0	0	0	0	0	0
EDVEVAESPLR	NUP88; NUP88	Q99567; J3KMX1	NUP88	HUM	Unmodified	944930	0	0	0	0	0	0	0	0
EDVPTFGPPLPSPPVFQK	RAP1GAP2; RAP1G	Q684P5; A0A1B0	RPGP2	HUM	Unmodified	657640	955170	859560	0	0	0	0	0	0
EEAENTLQSFR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Unmodified	1731800	2022200	1850700	775290	761640	761920	0	0	0
EEAENTLQSFR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Deamidation (N)	897070	887620	731620	218760	226820	276320	0	0	0
EEAEQVLGQARAK	DMD; DMD; DMD; I	P11532; A0A075	DMD	HUM	Unmodified	128510	146660	114450	0	0	0	0	0	0
EEAIQNFK	TCERG1; TCERG1;	O14776; A0A7P0	TCRG1	HUM	Unmodified	827070	811180	571880	0	0	0	0	0	0
EEAPSLRPAPPPISGGGYR	FGB	P02675	FIBB	HUM	Unmodified	544290	606880	717350	68105	40573	36499	44231	38867	42359
EEAQAEIEQYR	ATP6V1G1; ATP6V1	O75348; A0A7I2V	VATG1	HUM	Unmodified	827240	662050	936090	0	0	0	0	0	0
EEAQSLEDLAGFK	MKI67	P46013	KI67	HUM	Unmodified	608920	573010	562860	0	0	0	0	0	0
EEASEGGGNDRVR	VAMP8; VAMP8	Q9BV40; B8ZZT4	VAMP8	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
EEASNFR	PSMA3; PSMA3	P25788; G3V4X5	PSA3	HUM	Unmodified	962510	1355000	1410700	0	0	0	0	0	0
EEASTSLPTKPTQGASSASEPQEAPPKPAEDK	CLPTM1	O96005	CLPT1	HUM	Unmodified	0	0	2128700	0	0	0	0	0	0
EECDKYALQSQQR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUM	Unmodified	1735700	1844200	1870100	0	0	0	0	0	0
EEDAFHFVSYVPVNGR	UCHL5; UCHL5; UC	Q9Y5K5; Q5LJB0	UCHL5	HUM	Deamidation (N)	202690	486880	592760	0	0	0	0	0	0
EEDEPEER	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	290360	298690	256640	0	0	0	0	0	0
EEEAIQLDGLNASQIR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	0	0	1144000	0	0	0	0	0	0
EEECHFYAGGQVYPGEASR	PRDX4; PRDX4	Q13162; A6NG45	PRDX4	HUM	Unmodified	396720	421680	398780	56085	0	0	0	0	0
EEEEFNTGPLSVLTQSVK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUM	Unmodified	0	756140	926730	0	0	0	0	0	0
EEEGTGVVHQAPYFGAEDYR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUM	Unmodified	491550	594650	466350	0	0	0	0	0	0
EEEIAALVIDNGSGMCKAGFAGDDAPR	ACTG1; ACTG1; AC	P63261; A0A7P0	ACTG	HUM	Acetyl (Protein N-t	9813900	5586800	6888200	0	0	0	0	0	0
EEEIAALVIDNGSGMCKAGFAGDDAPR	ACTG1; ACTG1; AC	P63261; A0A7P0	ACTG	HUM	Acetyl (Protein N-t	0	0	321870	0	0	0	0	0	0
EEELAAVR	MMTAG2	Q9BU76	MMTA2	HUM	Unmodified	843920	755670	933660	0	0	0	0	0	0
EEEMGEEEEVER	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
EEEMMIR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUM	2 Oxidation (M)	5701600	4792200	4580000	0	176600	0	0	0	0
EEETEAAIGAPPTATEGPETKPVLMALAEGPGAEGPR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Oxidation (M)	0	2238600	3085000	0	0	0	0	0	0
EEETKGDSVEK	ZC3H14; ZC3H14; ZI	Q6PJT7; A0A087	ZC3HE	HUM	Unmodified	504040	215220	276160	0	0	0	0	0	0
EEEWDPEYTPK	THRAP3; BCLAF1; T	Q9Y2W1; Q9NYF	TR150	HUM	Unmodified	1041500	747380	952450	61743	84523	64281	0	0	0
EEFEHQQK	HSPA8; HSPA8; HSP	P11142; E9PKE3	HSP7C	HUM	Unmodified	371890	352880	335280	0	0	0	0	0	0
EEFTAFLHPEEYDYMK	CALU; CALU	O43852; H0Y875	CALU	HUM	Oxidation (M)	1087600	923710	804250	0	0	0	0	0	0
EEGFPIRPHYFWPLLVGR	LRPPRC; LRPPRC; L	P42704; B8ZZ38	LPPRC	HUM	Unmodified	0	1097400	1010400	0	0	0	0	0	0
EEGMVPFIFVGTR	FXR2	P51116	FXR2	HUM	Oxidation (M)	1921100	2064100	1949300	0	0	13286	0	0	0
EEGRYDEEVEVYR	TMEM201; TMEM2(	Q5SNT2; H0Y4R5	TM201	HUM	Unmodified	832310	1146200	1465700	0	0	0	0	0	0
EEIIPVAAEYDK	ACADM; ACADM; A	P11310; A0A7P0	ACADM	HUM	Unmodified	5185300	4393100	6119700	146530	91574	159260	0	0	0
EEIIPVAAEYDKTGEYPVPLIR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	7803600	8394700	10212000	0	0	0	0	0	0
EEIIPVAAEYDKTGEYPVPLIR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Methyl (KR)	0	614570	948030	0	0	0	0	0	0
EEIIPVAAEYDKTGEYPVPLIRR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	3060400	2599000	2859100	0	0	0	0	0	0
EEILAQAK	MYH9	P35579	MYH9	HUM	Unmodified	2292500	3448200	2517500	138430	157360	0	0	0	0
EEIVYLPCIYR	SELENBP1; SELENB	Q13228; C9JVL0;	SBP1	HUM	Unmodified	747570	0	681570	41549	26177	24190	0	0	0
EEKEESDDEAAVEEEEEEK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	566720	0	625470	0	0	0	0	0	0
EELDFQK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	663140	658020	521910	0	0	0	0	0	0
EELEEVIK	PSMA5	P28066	PSA5	HUM	Unmodified	1106200	842790	880530	0	0	0	0	0	0
EELEEVIKDI	PSMA5	P28066	PSA5	HUM	Unmodified	2764500	0	1863600	0	0	0	0	0	0
EELFVTSK	AKR1A1; AKR1A1; ,	P14550; V9GYG2	AK1A1	HUM	Unmodified	2255900	2887300	0	0	158280	144960	0	0	0
EELGFRPEYSASQLK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1	HUM	Unmodified	2009100	3036400	1957700	0	0	18662	0	0	0
EELGLIEQAYDNPHEALSR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8	HUM	Unmodified	4589000	0	8943100	0	0	0	0	0	0
EELLPKEGNK	TRAPPC10; TRAPPC	P48553; F8WE24	TPC10	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EELMESR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1	HUM	Oxidation (M)	10078000	0	11984000	0	0	0	0	0	0
EELQANGSAPAADKEEPAAAGSGAASPSAAEK	MARCKS	P29966	MARCS	HUM	Deamidation (N)	4946100	4112200	4481800	105560	155090	108570	0	0	0
EELSAVER	MKI67	P46013	KI67	HUM	Unmodified	1253900	445900	1283200	0	0	0	0	0	0
EELSNVLAAMR	RPL36	Q9Y3U8	RL36	HUM	Oxidation (M)	1181300	915510	1130900	80099	0	0	0	0	0
EELVKNLGTIAK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Deamidation (N)	498740	350250	404990	8542.7	10274	0	0	0	0
EELYQNLTR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	0	0	998100	0	45143	43492	0	0	0
EEMHLEDSANFIK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Unmodified	1745000	1068000	1212900	0	0	0	0	0	0
EEMQSNVEVVHTYR	NDRG1; NDRG1	Q92597; A0A7I2S	NDRG1	HUM	Oxidation (M)	3799300	2540300	1508300	0	0	0	0	0	0
EENAEQQALAAK	SMC3	Q9UQE7	SMC3	HUM	Unmodified	885460	725160	574590	0	0	0	0	0	0
EEPFPPPEEFVFIHAVPVEER	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	1395900	1279200	1352900	0	0	0	0	0	0
EEPGEDFPAAR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUM	Unmodified	3464900	2586800	2628200	0	0	0	0	0	0
EEPGSDSGTTAVVALIR	PPM1G	O15355	PPM1G	HUM	Unmodified	2279300	2055000	2147300	16153	25758	21795	0	0	0
EEPVSSGPEEAVGK	NOP56	O00567	NOP56	HUM	Unmodified	954890	1128400	1144000	0	0	0	0	0	0
EEQCILYLGPR	FKBP5	Q13451	FKBP5	HUM	Unmodified	947500	827590	0	31597	15230	0	0	0	0
EESDDEAAVEEEEEEKKPK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	999570	1010700	878590	0	0	0	0	0	0
EESGKPGAHVTVK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Unmodified	9165500	50458000	63290000	537560	1900200	2675300	0	0	0
EESGKPGAHVTVKK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Unmodified	17705000	15970000	15952000	580950	268400	594900	0	15601	15964
EESGKPGAHVTVKK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Methyl (KR)	400850	287980	427740	0	0	0	0	0	0
EESQIPVDEVFFHR	CEBPZ	Q03701	CEBPZ	HUM	Unmodified	1284700	1941500	2313600	0	0	14805	0	0	0
EETPGQRPAVTETHQLAELNEK	SRRM2; SRRM2; SR	Q9UQ35; I3L1I8;	SRRM2	HUM	Unmodified	1312000	2333800	2305300	0	0	27587	0	0	0
EETQEDKDCPIK	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUM	2 Methyl (KR)	464680	0	821770	0	0	0	0	0	0

EETQPPVALK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	1703900	1756500	1848500	77331	58196	58066	0	0	0
EETQPPVALKK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	1859700	1532500	1693300	86697	64640	78242	0	0	0
EEVDQVAR	SCO1; SCO1	O75880; J3QL56	SCO1_HUM	Unmodified	1442600	1059300	1050700	14753	0	14861	0	0	0
EEVITLIR	IQGAP1; IQGAP1; IQ	P46940; A0A0J9Y	IQGA1_HUM	Unmodified	1451200	916760	811820	0	0	0	0	0	0
EEVQSLREEAEK	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1_HUM	Unmodified	397200	345500	362270	0	21365	18489	28705	23696	14773
EEVVQKEQE	EIF4H; EIF4H; EIF4H	Q15056; A0A7Z\	IF4H_HUMA	Unmodified	3798600	4300700	3567700	423250	794450	460980	0	0	0
EEYEGPNKKPR	SFPQ	P23246	SFPQ_HUMA	Unmodified	1458700	1080300	1312500	45512	56779	0	0	0	0
EEYPDRIMNTFSVVPSPK	TUBB; TUBB3; TUB	P07437; Q13509;	TBB5_HUMA	Oxidation (M)	5418700	2706900	2289600	20058	0	46503	0	0	0
EEYPDRIMNTFSVVPSPK	TUBB; TUBB3; TUB	P07437; Q13509;	TBB5_HUMA	Oxidation (M);Deai	8887800	6528000	7036000	20917	22929	0	0	0	26213
EEYQPATPGLGMFVEVKDPEDKVILAR	TMED9	Q9BVK6	TMED9_HUM	Oxidation (M)	3708900	3065100	3293800	0	0	0	0	0	0
EEYQPATPGLGMFVEVKDPEDKVILAR	TMED9	Q9BVK6	TMED9_HUM	Oxidation (M);Metl	953940	1405100	0	0	0	0	0	0	0
EFADFEYR	LSM14A; LSM14A; I	Q8ND56; A0A096	LS14A_HUM	Unmodified	1105200	927740	0	65667	51691	54273	0	0	0
EFADSLGIPFLETSAK	RAB1C; RAB1A; RA	Q92928; P62820;	RAB1C_HUM	Unmodified	2809300	2331000	2300800	0	0	0	0	10199	0
EFALSNLK	DDX23	Q9BUQ8	DDX23_HUM	Unmodified	1960200	850760	886580	0	36614	33980	0	0	0
EFDDLSPEQQR	ATP2A3	O93084	AT2A3_HUM	Unmodified	957600	957400	628730	0	0	0	0	0	0
EFDELNPSAQR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	4467200	4751600	5550900	159470	150760	147170	0	0	0
EFDLTKEEDLAALR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	951910	570590	659130	0	0	0	0	0	0
EFEDPRDAPPPTR	SNRNP70	P08621	RU17_HUMA	Unmodified	2909300	2539100	3234000	95891	0	0	0	0	0
EFEPASAR	USP39; USP39; USP3	Q53GS9; B9A018	SNUT2_HUM	Unmodified	1167100	0	1642700	200040	0	187610	0	0	0
EFEPASAREAPASVVPFVR	USP39; USP39; USP3	Q53GS9; B9A018	SNUT2_HUM	Unmodified	0	0	0	304250	284000	265410	71539	47876	72204
EFEPLLNWMK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Oxidation (M)	3071600	3763000	3249000	16998	25507	16289	0	0	0
EFESRLADALQELR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	237790	174830	0	0	0	0	0	0	0
EFESVLVDAFSHVAR	RPRD1B	Q9NQG5	RPR1B_HUM	Unmodified	4034000	3741800	2839000	0	0	0	0	0	0
EFEVYGPIKR	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Unmodified	3309300	2030200	2454200	0	0	0	0	0	0
EFFNGKEPSR	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Deamidation (N)	12750000	13626000	20400000	0	0	0	0	0	0
EFFVGLSK	DDAH2; DDAH1; DE	O95865; O94760;	DDAH2_HUM	Unmodified	1756700	2056300	1110000	14689	19104	18651	0	0	0
EFGDKVNLLSVLEAAK	PRXL2A	Q9BRX8	PXL2A_HUM	Unmodified	851610	710170	907740	0	0	0	0	0	0
EFGFVIPERPVVVDDVR	OPLAH	O14841	OPLA_HUMA	Unmodified	1056400	783990	0	0	0	0	0	0	0
EFGNLTR	UQCRQ	O14949	QCR8_HUMA	Unmodified	654190	570670	377380	51411	60952	45245	0	0	0
EFGPVVIDYGK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1445200	728520	1769600	0	0	0	0	0	0
EFGTNIK	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL_HUM	Unmodified	0	3283400	0	0	0	0	0	0	0
EFHLNESGDPSSK	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM	Unmodified	13965000	12668000	10994000	516730	669130	654460	10500	6795.3	0
EFHLNESGDPSSK	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM	Deamidation (N)	18249000	15239000	18681000	634360	544250	769480	0	0	0
EFIEMWR	TRMT10C; TRMT10	Q7L0Y3; C9JVB6	TM10C_HUM	Oxidation (M)	1363500	1194300	824700	0	0	0	0	0	0
EFIQEPAK	PRMT5; PRMT5; PR	O14744; G3V2L6;	ANM5_HUM	Unmodified	2393900	2259300	2176700	0	118420	113950	0	0	0
EFIQFLMTNEETVDKAPPHSKIGLEKK	ZNF644	Q9H582	ZN644_HUM	Oxidation (M);2 M	1789100	0	1605000	0	0	0	0	0	0
EFLLIFR	EFHD2; EFHD2	Q96C19; H0Y4Y4	EFHD2_HUM	Unmodified	412090	470020	349130	0	0	0	0	0	0
EFLLSMANR	PPIG; PPIG; PPIG; PI	Q13427; A0A7Z\	PPIG_HUMA	Oxidation (M)	562890	733850	389120	46177	0	0	0	0	0
EFLVPSREPGKFYSLPQSPQQFK	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM_HUM	Unmodified	0	2239400	4143100	0	0	0	0	0	0
EFMKDTDSINLYK	XPO1; XPO1; XPO1;	O14980; A0A7Z\	XPO1_HUMA	Oxidation (M)	709640	1061000	1264700	0	0	0	0	0	0
EFMPPGLQELIPFVKPAPIEQEPSK	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Oxidation (M)	340940	280470	303150	0	0	0	0	0	0
EFMPPGLQELIPFVKPAPIEQEPSKK	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Oxidation (M)	741340	452300	438200	0	0	0	0	0	0
EFNEEGALSVLQQFK	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR_HUM	Unmodified	1259800	636910	770760	0	0	0	0	0	0
EFNPTKPLLSVNK	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L_HUM	Unmodified	2099600	1449300	1820900	43692	0	30799	0	0	0
EFNSYGSR	ACO1	P21399	ACOC_HUM/	Deamidation (N)	889090	1952600	995140	443050	91553	214360	0	0	0
EFPGFLENQKDPLAVDK	S100A10	P60903	S10AA_HUM	Unmodified	493100	409920	257620	0	0	0	0	0	0
EFPGFLENQKDPLAVDK	S100A10	P60903	S10AA_HUM	Deamidation (N)	0	603790	379810	0	0	0	0	0	0
EFPTVPLVK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA_HUM/	Unmodified	4203600	4337100	3311800	80330	104220	92486	0	0	0
EFQASPLLLPVPTQVPQPVGR	CCDC22	O60826	CCD22_HUM	Unmodified	3538300	2984200	5702300	0	0	0	0	0	0
EFQATAR	ACADM; ACADM; A	P11310; A0A7P01	ACADM_HUM	Unmodified	738260	2084700	1791600	0	0	0	0	0	0
EFRELPNIEER	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	4447100	4361900	3822600	541070	439050	514030	317010	287410	346650
EFRGQENGLDGTK	UBAP2L; UBAP2L; I	Q14157; Q5VU80	UBP2L_HUM	Deamidation (N)	1386400	2722600	560190	0	73130	0	0	0	0
EFRPEDQPWLLR	GTF2F1; GTF2F1; GT	P35269; M0R0R9	T2FA_HUMA	Unmodified	955640	1238600	1341100	0	0	0	0	0	0
EFSEIQLAR	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM_HUM/	Unmodified	0	363590	0	0	0	0	0	0	0
EFSEQFIR	COL21A1; COL21A1	Q96P44; F5GZK2	COLA1_HUM	Unmodified	2116700	1660900	2028100	0	0	0	0	0	0
EFSGNPIK	FUS; FUS	P35637; H3BPE7	FUS_HUMAN	Unmodified	5517900	6063900	5429000	0	0	0	0	0	0
EFSGYVESGLK	ANXA7	P20073	ANXA7_HUM	Unmodified	1201200	1258600	1202000	0	0	0	0	0	0
EFSITDVVPYPISLR	HSPA4; HSPA4; HSP	P34932; A0A087\	HSP74_HUM	Unmodified	0	663580	941220	0	0	0	0	0	0
EFSIYMTK	GOT2	P00505	AATM_HUM	Oxidation (M)	794140	703830	941480	0	0	0	0	0	0
EFSPFGSITSAK	PABPC4; PABPC4; P	Q13310; B1ANR0	PABP4_HUM	Unmodified	2285900	2144400	1840500	47264	58095	50653	0	0	0
EFSPFGTITSAK	PABPC1; PABPC1; P	P11940; A0A087\	PABP1_HUM	Unmodified	8397100	8363600	8716100	354530	255670	332570	0	21227	0
EFTAQNLGK	EIF3H; EIF3H; EIF3H	O15372; B3KS98;	EIF3H_HUM	Unmodified	366880	0	0	0	0	0	0	0	0
EFTEAVEAK	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	0	0	0	58161	79103	49168	0	0	0
EFTEREQGEVR	UCHL1; UCHL1	P09936; D6RE83	UCHL1_HUM	Unmodified	23969000	22457000	21541000	0	122410	0	0	0	0
EFTESQLQEGK	TAGLN; TAGLN	Q01995; H0YCU9	TAGL_HUMA	Unmodified	739110	676850	0	457810	530370	639470	0	0	0
EFTESQLQEGKHVIGLQMGSNR	TAGLN; TAGLN	Q01995; H0YCU9	TAGL_HUMA	Oxidation (M)	1673100	1126600	2282400	464500	446270	420880	1522400	1126600	1495400
EFTLEFSR	ATP2A1; ATP2A2; A	O14983; P16615;	AT2A1_HUM	Unmodified	2394200	2073400	2102100	26799	34916	29326	0	0	0
EFTQGVKPDWTIAR	MAIP1	Q8WWC4	MAIP1_HUM	Unmodified	1488900	1614000	1530100	0	0	0	0	0	0
EFTQGVKPDWTIAR	MAIP1	Q8WWC4	MAIP1_HUM	Methyl (KR)	514380	539060	0	0	0	0	0	0	0
EFVAVTGAEEDR	NSFL1C; NSFL1C; N	Q9UNZ2; G3V4V\	NSF1C_HUM	Unmodified	1040500	1042100	835950	0	0	0	0	0	0
EFVEREVIDFAR	MRPL43; MRPL43; I	Q8N983; H0Y6Y8	RM43_HUMA	Unmodified	2089200	2193900	2892400	0	0	0	0	0	0
EFVGQLVAPLPLGTGALR	VWA1; VWA1; VWA	Q6PCB0; J3QLP3	VWA1_HUM	Unmodified	618500	523880	241320	0	0	0	0	0	0
EFVISDR	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	582370	748460	827980	0	0	0	0	0	0
EFVISDRK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	1593300	1774000	1922700	0	0	0	0	0	0
EFVISDRKELEEDFIK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	3323300	5237900	5663000	0	0	0	0	0	0
EFVISDRKELEEDFIKSELK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	7994900	6000900	6603300	0	0	0	0	0	0
EGAAAAPPER	ERMP1; ERMP1	Q7Z2K6; E7ER77	ERMP1_HUM	Unmodified	1013900	559050	1706500	0	0	76352	0	0	0
EGAAAAPPEREAR	ERMP1; ERMP1	Q7Z2K6; E7ER77	ERMP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EGAAHAFAQYNLDQFTPVK	CAPZA2; CAPZA2; C	P47755; A0A0D9	CAZA2_HUM	Unmodified	2589500	2752900	2746400	0	0	0	0	0	0
EGAAHAFAQYNLDQFTPVK	CAPZA2; CAPZA2; C	P47755; A0A0D9	CAZA2_HUM	Deamidation (N)	218010	273570	462180	0	0	0	0	0	0
EGAAHAFAQYNMDQFTPVK	CAPZA1	P52907	CAZA1_HUM	Oxidation (M)	1471700	1929300	1483800	0	22951	0	0	0	0
EGAAHAFAQYNMDQFTPVK	CAPZA1	P52907	CAZA1_HUM	Oxidation (M);Deai	3776500	3068300	2797300	0	0	0	0	0	0
EGAEDKMTSGDVLSNRK	BPNT2; BPNT2	Q9NX62; H0YBS7	IMPA3_HUM	Oxidation (M)	731380	1111900	1416800	31694	0	0	0	0	0
EGAFSNFPISEETIK	DDX21; DDX50	Q9NR30; Q9BQ39	DDX21_HUM	Unmodified	0	1574300	5523600	22140	24171	16704	0	20416	0
EGAGDAEADPLEPPPPQQQLGLSLRR	DIDO1	Q9BTC0	DIDO1_HUM	Unmodified	1011400	0	0	59686	0	0	0	0	0
EGAITFTWVER	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Unmodified	1121900	0	764240	0	0	0	9539.7	0	0
EGALCEENMR	EEF2	P13639	EF2_HUMAN	Oxidation (M)	3083700	4529400	3546700	106060	138820	98766	0	0	0
EGALCEENMR	EEF2	P13639	EF2_HUMAN	Oxidation (M);Deai	1534200	1637000	2082500	28138	28901	0	0	0	0
EGALDLSGLR	PCK2; PCK2	Q16822; H0YML5	PCKGM_HUM	Unmodified	4974400	5555700	4897300	167730	173370	0	0	0	0
EGALPPYR	GTF3C5; GTF3C5; G	Q9Y5Q8; H7BY8	TF3C5_HUM	Unmodified	0	747030	327090	0	0	0	0	0	0
EGALSMAR	MYG1; MYG1; MYG	Q9HB07; F8VQQ	MYG1_HUM/	Oxidation (M)	1432800	2379000	801540	91263	191840	0	0	0	0
EGALTAFR	PSMD6; PSMD6	Q15008; C9J0E9	PSMD6_HUM	Unmodified	1964800	646370	322890	0	0	14056	52020	0	46362
EGAQVPTGR	MDC1	Q14676	MDC1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EGDAHPLGALPVGTLINNVESEPGR	MRPL2; N/A; MRPL	Q5T653; A0A669	RM02_HUMA	Deamidation (N)	6668700	6902900	5859700	21383	0	0	0	0	0
EGDDDRTVCR	CLU; CLU; CLU; CL	P10909; H0YLK8	CLUS_HUMA	Unmodified	127230	120440	0	74259	80526	78374	0	0	0
EGDEQRTFFSFPAVVAPFK	GARS1; GARS1; GA	P41250; A0A6Q8	GARS_HUMA	Unmodified	148330	131360	134260	0	0	0	0	0	0
EGDGQLTVGDAGLDRER	PCDH8	O95206	PCDH8_HUM	2 Methyl (KR)	0	1313700	998690	0	0	0	0	0	14436
EGDIIPPLTGATPPLIGHLK	TP53BP1; TP53BP1;	Q12888; H7C3N7	TP53B_HUM	Unmodified	2798000	2512400	1902400	0	0	0	0	0	0
EGDIIPPLTGATPPLIGHLKLEPK	TP53BP1; TP53BP1;	Q12888; H7C3N7	TP53B_HUM	Unmodified	1975700	2290600	1662200	0	0	0	0	0	0
EGDLIAAQAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	9598300	7436600	8814600	976170	1129700	1182700	0	0	0
EGDLLFTVAK	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z\	EIF3I_HUMA	Unmodified	1031100	830890	901200	0	0	0	0	0	0
EGDLPPLWWYIVTRPR	NDUFB9; NDUFB9	Q9Y6M9; E9PH6	NDUB9_HUM	Unmodified	1570700	1202600	1800400	0	0	0	0	0	0
EGDPAIYAER	TES; TES	Q9UGI8; H7BYK	TES_HUMAN	Unmodified	0	480810	403880	0	0	44963	27871	81372	78411
EGDQTSNNIPADIVFVLK	DNAJB1; DNAJB1; I	P25685; M0QXK(	DNJB1_HUM	Deamidation (N)	366770	396640	285650	0	0	0	0	0	0
EGDREAIVAALLTR	DDX27; DDX27	Q96GQ7; B7Z6D5	DDX27_HUM	Unmodified	527680	451260	500800	0	0	0	0	0	0
EGDTIIVPGVEGPIVTQIR	EIF5B; EIF5B	O60841; A0A087	IF2P_HUMAN	Unmodified	1612200	1161300	1381200	0	0	0	0	0	0
EGDTVQLLCR	BCAM; BCAM; BCA	P50895; A0A087	BCAM_HUM	Unmodified	1380100	1838200	1337800	221980	294770	279600	0	0	0
EGDTVQLLCRGDGSPSPEYTLFR	BCAM; BCAM; BCA	P50895; A0A087	BCAM_HUM	Unmodified	838040	770800	997140	0	0	0	0	0	0
EGDVLTLLESER	RPS28	P62857	RS28_HUMA	Unmodified	20285000	22608000	15661000	103800	107710	76376	30182	43442	0
EGDVLTLLESEREAR	RPS28	P62857	RS28_HUMA	Unmodified	18818000	18170000	14280000	135460	0	0	0	0	0
EGDVLTLLESEREARR	RPS28	P62857	RS28_HUMA	Unmodified	1105800	1218700	1122800	0	0	0	0	0	0
EGDYVLFHHEGGVDVGDVDAK	ACLY	P53396	ACLY_HUM/	Unmodified	2202900	2079800	2885900	31593	35223	0	0	0	0
EGEAVVLPEVEPGLTAR	SDC1; SDC1; SDC1	P18827; H7C1K4;	SDC1_HUMA	Unmodified	2075900	1448200	2152800	0	0	33673	0	0	0
EGEDMIAEEHFGSEK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	612060	1374500	1483300	0	0	0	0	0	0
EGEEAGPGDPLLEAVPK	CDC37; CDC37	Q16543; K7EL68	CDC37_HUM	Unmodified	0	2631800	2100100	78671	0	74483	0	0	0
EGEEVMFK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1132600	1160500	1112700	48249	71163	64947	0	0	0
EGEFVAQFK	PA2G4	Q9UQ80	PA2G4_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EGELPLEELLR	SRCAP; SRCAP; N/A	Q6ZRS2; A0A0A(	SRCAP_HUM	Unmodified	1209600	888010	1202600	8530.2	0	0	0	0	0
EGELTVAQGR	LMNB2	Q03252	LMNB2_HUM	Unmodified	11487000	16555000	10774000	3085200	0	3217500	0	0	0
EGESEDLASR	GOLGA2; GOLGA2;	Q08379; H0Y7B8	GOGA2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EGETIIELK	CD47; CD47	Q08722; A0A2R8	CD47_HUMA	Unmodified	610410	669480	1152300	128030	109770	118820	0	0	0
EGETVEPYK	DHX9	Q08211	DHX9_HUMA	Unmodified	2979500	2929000	2718300	0	0	0	0	0	0
EGFDPAIVKDPLFYLDAQK	SLC27A4	Q6P1M0	S27A4_HUM	Unmodified	706930	965220	133480	0	0	0	0	0	0
EGFFTNGLTLGAK	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2_HUM	Deamidation (N)	16546000	12259000	13120000	107480	88008	73077	0	9978.8	0
EGFFTNGLTLGAKK	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2_HUM	Deamidation (N)	801150	758390	1025800	19521	19811	17668	0	0	0
EGFGHLSPTGTTEFWLGNEK	FGG; FGG; FGG	P02679; C9JC84;	FIBG_HUMA	Unmodified	1429100	956090	0	0	0	0	0	0	0
EGFINYLTR	SPINT1; SPINT1; SPI	O43278; H3BTQ8	SPIT1_HUMA	Unmodified	505200	1345800	1321900	0	0	0	0	0	0
EGFLDTLVVLHR	CDKN2B; CDKN2A;	P42772; P42771;	CDN2B_HUM	Unmodified	3440700	2447700	2521700	0	0	0	0	0	0
EGGAEESAIR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	2321100	0	1497700	0	68990	24601	0	0	0
EGGGAIEEEAK	SMARCC2; SMARCI	Q8TAQ2; F8VXC(	SMRC2_HUM	Unmodified	0	862530	410050	0	0	0	0	0	0
EGGGAIEEEAKEK	SMARCC2; SMARCI	Q8TAQ2; F8VXC(	SMRC2_HUM	Unmodified	1079100	944550	1201700	0	0	168350	0	0	0
EGGGNNLYGEEMVQALK	GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Oxidation (M);Deai	0	797770	0	0	0	0	0	0	0

EGGHIVYDQLPTPSSPDESENQAR	ARG2	P78540	ARGI2_HUM	Unmodified	0	0	0	360110	266900	296090	52579	0	0
EGGKGPR	COL1A1; CCDC88B	P02452; A6NC98	CO1A1_HUM	Unmodified	0	62137	0	0	0	0	0	0	0
EGGKSREVMRLNK	ATXN7L1	Q9ULK2	AT7L1_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
EGGLGPLNIPLLADVTR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	10721000	4504200	8150800	0	0	0	0	0	0
EGGLGPLNIPLLADVTRR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	12616000	12267000	10756000	0	0	0	0	0	0
EGGRGSGGGGEGIQDRESSFR	AKAP8; AKAP8; AK	O43823; A0A7P0T	AKAP8_HUM	Unmodified	1384800	1081700	1342300	0	35476	57892	0	0	0
EGGSIPVTLTFQEATGK	CNDP2	Q96KP4	CNDP2_HUM	Unmodified	2956400	2450800	1695300	183500	133510	108670	0	0	0
EGGSLEHQPFLPGPGPFLAELEK	GSE1; GSE1	Q14687; H0Y613	GSE1_HUM	Unmodified	541660	1064200	1182600	0	0	0	0	0	0
EGGVLKVHPTSTR	ISYNA1; ISYNA1; IS	Q9NPH2; J3QRH1	INO1_HUM	Unmodified	1771800	1156800	1210700	0	0	0	0	0	0
EGGYDDEIMMTPNMQGIIMAIGK	USP25	H7C1T8	H7C1T8_HUM	Oxidation (M);Deam	1057700	1046700	1458200	0	0	0	0	0	0
EGHPVTSEPSRPEPAVFK	TST	Q16762	THTR_HUM	Unmodified	677910	4332200	2718600	19631	0	0	0	0	0
EGHQVALLSGEMMVEQR	DDX19B; DDX19A; I	Q9UMR2; Q9NUI	DD19B_HUM	2 Oxidation (M)	1896900	0	1874600	0	0	0	0	0	0
EGHTEIVQDLLDAGTYVNIPDR	KIDINS220; KIDINS2	Q9ULH0; E9PH7(	KDIS_HUM	Methyl (KR);Deam	1554200	0	0	0	0	0	0	0	0
EGIAQTVFLGLNR	GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUM	Unmodified	828150	0	0	0	0	0	0	0	0
EGIDPTPYYWYTDQR	NARS1	O43776	SYNC_HUM	Unmodified	0	1611500	0	22013	0	0	0	0	0
EGIDPTPYYWYTDQRK	NARS1	O43776	SYNC_HUM	Unmodified	2266900	2213100	2188300	39014	0	43724	0	0	0
EGILPER	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA_HUM	Unmodified	1011900	1317100	863870	133610	123850	73154	0	0	0
EGILPERAEEAK	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA_HUM	Unmodified	2391200	1595300	1231500	0	0	0	0	0	0
EGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Unmodified	1982200	1695700	1573500	0	0	0	0	0	0
EGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Deamidation (N)	6500900	5505800	10879000	0	0	0	0	0	0
EGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Methyl (KR);Deam	81152	59414	76874	0	0	0	0	0	0
EGIPGLYR	SLC25A24	Q6NUK1	SCMC1_HUM	Unmodified	4498500	4181600	4501500	0	0	0	0	0	0
EGIREETVSLRKD	PSMB1	P20618	PSB1_HUMA	Unmodified	4269100	3906600	3249300	348260	261350	313690	65451	80480	0
EGITVYSMQFGGYAK	HEBP1; HEBP1	Q9NRV9; A0A3B	HEBP1_HUM	Oxidation (M)	2308500	2003900	2438500	85168	58908	50216	0	0	0
EGIVTATEQEVKEDIAK	TRAP1; TRAP1	Q12931; I3L0K7	TRAP1_HUM	Unmodified	2192500	1533900	1948200	0	0	0	0	0	0
EGKDVNSSSPVMLAFK	TSNAX; TSNAX-DIS	O99598; Q9NRI2;	TSNAX_HUM	Oxidation (M);Deam	2091600	0	1312700	16656	0	0	0	0	0
EGKEFAPVYPIMVQLLQK	COG5	Q9UP83	COG5_HUMAN	Oxidation (M)	377000	830510	921750	0	0	0	0	0	0
EGKPEIEGKPESEGEPGSETR	TCEAL4; TCEAL4	Q96EI5; D6RD44	TCAL4_HUM	Unmodified	3487500	994100	3598100	247550	213100	173390	0	0	0
EGKPEKFSFGLLDLPFR	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1_HUM	Unmodified	0	400660	0	0	0	0	0	0	0
EGKQVGSGVTTDQVQAEAK	IGHM	P01871	IGHM_HUMA	Unmodified	1399400	1575800	1473000	117450	63289	74179	0	0	0
EGLDDQGLTK	PTBP2; PTBP2; PTB	Q9UKA9; A0A6Q	PTBP2_HUM	Unmodified	655680	711030	853760	0	0	0	0	0	0
EGLEFAVIR	PUS1; PUS1; PUS1	Q9Y606; F5H1S9;	TRUA_HUM	Unmodified	501580	427740	350230	17050	0	13370	0	0	0
EGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	16940000	13278000	15956000	20551	24007	0	0	0	0
EGLELPEDEEEK	HSP90AB4P; HSP90;	Q58FF6; Q58FG0;	H90B4_HUM	Unmodified	10410000	13872000	13534000	215380	210340	186410	0	0	0
EGLELPEDEEEKK	HSP90AB4P; HSP90;	Q58FF6; Q58FG0;	H90B4_HUM	Unmodified	8630600	6549500	5050900	103560	119460	157100	0	0	0
EGLELPEDEEEKKK	HSP90AA5P; HSP90;	Q58FG0; P08238;	HS905_HUM	Unmodified	6618600	7850600	10758000	96879	0	132240	0	0	0
EGLELPEDEEEKKK	HSP90AA5P; HSP90;	Q58FG0; P08238;	HS905_HUM	Methyl (KR)	1420000	991300	2253200	0	0	0	0	0	0
EGLELPEDEEEKKKMEESK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Oxidation (M)	11681000	12635000	5495000	234980	283920	342230	0	0	0
EGLELPEDEEEKKKQEEK	HSP90AA5P; HSP90;	Q58FG0; P07900	HS905_HUM	Unmodified	4254600	4610200	4599400	133300	93712	0	0	0	0
EGLENDLK	PDCD6IP	Q8WUM4	PDC6I_HUM	Unmodified	665270	1101500	571570	0	0	0	0	0	0
EGLISQDGSSLEALLR	DPF2; DPF2	Q92785; J3KMZ8	REQU_HUM	Unmodified	1659200	647630	1274500	0	0	0	0	0	0
EGLLFEGR	HK1	P19367	HXK1_HUM	Unmodified	2093700	2396400	2219900	31507	33150	28020	0	8297.5	0
EGLLGLQNLLK	CLASP1; CLASP2; C	Q7Z460; O75122;	CLAP1_HUM	Unmodified	449330	417270	558700	0	0	0	0	0	0
EGLPEDGTLYR	GTF3C2; GTF3C2	Q8WUA4; A0A08	TF3C2_HUM	Unmodified	0	1050000	1328300	0	0	0	0	0	0
EGLPVALDK	RTRAF	Q9Y224	RTRAF_HUM	Unmodified	178530	4518300	219080	0	0	0	0	0	0
EGLQNMEAR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUM	Oxidation (M)	7006900	6882500	6666800	0	440990	0	0	0	0
EGLQNMEAR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUM	Oxidation (M);Deam	4385300	4950300	5348900	115480	163700	280040	0	0	0
EGLRSDVFPGPSFR	SUGP2; SUGP2; SUG	Q8IX01; M0R2Z9	SUGP2_HUM	Unmodified	3180500	2227500	2390500	136650	123110	211640	26349	0	22545
EGLSRPTAAVQLPR	MRNIP; MRNIP; MR	Q6NTE8; E5RJC6	MRNIP_HUM	Unmodified	1537500	1110900	1428700	103950	0	78717	0	0	0
EGLTGTGTGPSR	DNAJB2; DNAJB2; D	P25686; C9JRD2;	DNJB2_HUM	Unmodified	881120	151140	0	0	0	0	0	0	0
EGLTSIEEVTK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1221000	410440	514440	0	0	63795	0	0	0
EGLVDTAVK	POLR1A; POLR3A; I	O95602; O14802;	RPA1_HUMA	Unmodified	1097800	1254900	868170	0	34767	0	0	0	0
EGMAALQSDPWQQELYR	ACADVL; ACADVL	P49748; G3V1M7	ACADV_HUM	Oxidation (M)	2191800	1940800	1694900	15530	0	24844	0	0	0
EGMEAAVEKQR	XRN2	Q9H0D6	XRN2_HUMA	Oxidation (M);Deam	221420	270110	304410	0	9889.7	0	0	0	0
EGMFLFRAARK	IL7; IL7	P13232; A0A0A0	IL7_HUMAN	Oxidation (M);Metl	0	0	623460	48575	0	0	0	0	0
EGMLMGVKPGEDASGPAEDLVR	RAB11FIP1; RAB11I	Q6WKZ4; E7EX4	RFIP1_HUMA	2 Oxidation (M)	3405500	3002200	3409400	95621	77840	80507	0	0	0
EGMLQHWELGQAALR	ACP2; ACP2; ACP2;	P11117; B7Z7D2;	PPAL_HUMA	Oxidation (M)	1289700	1742900	1369800	0	0	0	0	0	0
EGMQLISEKPETEAVVK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	2232200	2219400	2547900	0	0	0	0	0	0
EGMTAFVEK	ECHS1	P30084	ECHM_HUM	Oxidation (M)	4431000	2952500	3083200	238080	305000	370380	0	0	0
EGNASGVSLLEALDTILPPTRPTDKPLR	EEF1A2; EEF1A2	Q05639; A0A2U3	EF1A2_HUM	Deamidation (N)	226980	104660	194490	0	0	0	0	0	0
EGNASGVSLLEALDTILPPTRPTDKPLR	EEF1A2; EEF1A2	Q05639; A0A2U3	EF1A2_HUM	Unmodified	0	175670	142410	0	0	0	0	0	0
EGNDLYHEMIESGVINLK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	1326200	1439200	1043200	44465	34998	40288	39186	0	0
EGNDLYHEMIESGVINLK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M);Deam	2100900	2168800	5126100	0	0	0	0	0	0
EGNDLYHEMIESGVINLKDATSK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	1836700	1578200	1574700	0	0	0	0	0	0
EGNEKEMQRILLNSER	PIK3R2; PIK3R2	O00459; V9GYJ4	P85B_HUMA	3 Methyl (KR);Dea	262880	0	0	0	0	0	0	0	0
EGNNPAENGDAK	HMGN2	P05204	HMGN2_HUM	Deamidation (N)	1283100	702930	1893700	0	20588	18956	0	0	0
EGNNPAENGDAKTDQAQK	HMGN2	P05204	HMGN2_HUM	Deamidation (N)	1249800	1554900	857930	59221	60675	41525	0	0	0
EGNNPAENGDAKTDQAQK	HMGN2	P05204	HMGN2_HUM	Methyl (KR);Deam	252900	336790	350960	0	0	20133	0	0	0
EGNNPAENGDAKTDQAQK	HMGN2	P05204	HMGN2_HUM	2 Deamidation (N)	0	1053900	0	0	0	0	0	0	0
EGNNPAENGDAKTDQAQKAEGAGDAK	HMGN2	P05204	HMGN2_HUM	Deamidation (N)	28838000	29426000	33010000	720060	0	782500	0	0	0
EGNQEVPFDVPELWYEDEK	LRPPRC	P42704	LPPRC_HUM	Unmodified	0	243660	517080	0	0	0	0	0	0
EGPAVVGQFIQDVK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Unmodified	1058400	0	0	16108	0	0	0	0	0
EGPAVVGQFIQDVKNSR	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Deamidation (N)	856590	1089700	819780	29151	21078	11365	19581	21675	30930
EGPDLDRPGSDR	HDGFL2; HDGFL2	Q7Z4V5; A0A087	HDGR2_HUM	Unmodified	1937100	2194300	2801100	141700	0	112790	0	0	0
EGPEGFAR	PC; PC	P11498; A0A494(	PYC_HUMAN	Unmodified	2030900	3354800	2994500	38334	97078	106590	0	0	0
EGPFYPTLR	MCTS1	Q9ULC4	MCTS1_HUM	Unmodified	5515600	5964500	5367900	57542	61218	52879	0	0	0
EGPGEAIVR	L1CAM	P32004	L1CAM_HUM	Unmodified	0	1208000	0	0	0	0	0	0	0
EGPVASPPFMDLEQAVLPAVIPK	WNK1; WNK1; WNK	Q9H4A3; F5GWT	WNK1_HUM	Oxidation (M)	0	324260	274270	0	0	0	0	0	0
EGPVEAPR	INSM1	Q01101	INSM1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EGPYDVVVLPGGNLGAQNLSESAAVK	PARK7; PARK7	Q99497; K7EN27	PARK7_HUM	Unmodified	10083000	7976500	10714000	0	0	0	26009	0	0
EGPYDVVVLPGGNLGAQNLSESAAVK	PARK7; PARK7	Q99497; K7EN27	PARK7_HUM	Deamidation (N)	2157200	1724000	2849200	0	0	0	0	0	0
EGPYSISVLYGDEEVPR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	4098900	4981000	2352300	21122	0	22258	60799	42122	40106
EGPYSISVLYGDEEVPRSPFK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	4771000	3142400	3830600	0	0	0	26036	0	0
EGQEDQGLTK	PTBP1; PTBP3; PTB	P26599; O95758;	PTBP1_HUM	Unmodified	0	10400000	6518000	688480	978970	1137900	0	0	0
EGQEDQGLTKDFSNSPLHR	PTBP3	O95758	PTBP3_HUM	Unmodified	2855000	3501600	3372600	56645	92308	72922	0	0	0
EGQEDQGLTKDYGNSPLHR	PTBP1; PTBP1; PTB	P26599; A0A087	PTBP1_HUM	Unmodified	20903000	23595000	11679000	1087900	740370	1173500	0	0	0
EGQEDQGLTKDYGNSPLHR	PTBP1; PTBP1; PTB	P26599; A0A087	PTBP1_HUM	Deamidation (N)	13920000	15304000	16928000	227570	594850	852800	0	0	0
EGQEDQGLTKDYGNSPLHR	PTBP1; PTBP1; PTB	P26599; A0A087	PTBP1_HUM	Methyl (KR)	1206900	935020	387680	0	0	0	0	0	0
EGQHYPER	SAFB	Q15424	SAFB1_HUM	Unmodified	1305900	1121600	1210500	67137	63892	0	0	0	0
EGQKPPEGFMAPK	PAPSS1	O43252	PAPS1_HUM	Oxidation (M)	1911300	1681000	1738300	470590	0	753470	0	0	0
EGQQSFHLS	TRIP12; TRIP12; TR	Q14669; A0A6Q8	TRIPC_HUM	Unmodified	1611000	829450	920410	67287	82875	61231	0	0	0
EGQVEVLK	CAVIN1	Q6NZI2	CAVN1_HUM	Unmodified	0	0	0	161980	181580	186650	0	0	0
EGRPSGEAFVELESEDEVK	HNRNPH1; HNRNPH	P31943; E9PCY7;	HNRH1_HUM	Unmodified	3275800	3203700	2942600	0	0	0	0	0	0
EGRPSGEAFVELESEDEVKLALKK	HNRNPH1; HNRNPH	P31943; E9PCY7;	HNRH1_HUM	Unmodified	2750000	0	1709500	0	0	0	0	0	0
EGSASTEVLR	SNRNP200; SNRNP2	O75643; A0A494(	U520_HUMA	Unmodified	3051300	202580	2516100	167220	146880	179370	0	0	0
EGSGNPTPLINPLAGIR	CNOT2; CNOT2; CN	Q9NZN8; F8VQF4	CNOT2_HUM	Unmodified	0	2362500	2475600	0	127920	105980	27885	18625	25991
EGSGSSGTGEQKEDQKEEK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	17312	251570	1519200	0	0	0	0	0	0
EGSHSVTASAL	PAX9	P55771	PAX9_HUMA	Unmodified	568500	615440	630240	126260	0	0	0	0	0
EGSLGDELLPLGYSEPEQQEGASAGAPSPTLELASR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	3091000	1735900	3867500	0	0	0	0	0	0
EGSPRDNPTAQQIMQLLR	GOLGA2; GOLGA2;	Q08379; A0A087	GOGA2_HUM	Oxidation (M)	453440	551670	592030	0	0	0	0	0	0
EGSQLKQQIQSIQQSIER	SNU13; SNU13; SNU	P55769; A0A3B3	NH2L1_HUM	Unmodified	9119400	7355900	8282200	0	0	0	0	0	0
EGSRTDDEVVQREEEAIQLDGLNASQIR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	41768000	20129000	25652000	0	0	0	0	0	0
EGSRTDDEVVQREEEAIQLDGLNASQIR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Deamidation (N)	8911700	5372900	5982000	0	0	0	0	0	0
EGSVLDILK	NUP153	P49790	NU153_HUM	Unmodified	1715400	1922100	1331800	0	0	0	0	0	0
EGSVLDILKSPGFASPK	NUP153	P49790	NU153_HUM	Unmodified	1374700	1174100	1346200	0	0	0	0	0	0
EGTDSSQGIPQLVSNISACQVIAEAVR	CCT7; CCT7; CCT7	Q99832; A0A0D9	TCPH_HUMA	Unmodified	469680	0	313580	0	0	0	0	0	0
EGTEAWEAAMK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	542600	511230	1095600	0	0	0	0	0	0
EGTETFADHREGILK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	372980	395090	347540	0	0	0	0	0	0
EGTGTEMPMIGDR	FKBP4	Q02790	FKBP4_HUM	2 Oxidation (M)	1927400	2368800	2094800	39926	77522	0	0	0	0
EGTRVQSVEQIREVASGAAR	CTBP2; CTBP1; CTB	P56545; Q13363;	CTBP2_HUM	Unmodified	0	1236100	856300	0	0	0	0	0	0
EGVAAFYK	SLC25A25; SLC25A;	Q6KCM7; H7C4Z	SCMC2_HUM	Unmodified	698680	521650	1089400	33886	36850	35965	0	0	0
EGVECEVINMR	PDHB; PDHB	P11177; C9J634	ODPB_HUMA	Oxidation (M);Deam	798860	750630	660020	0	0	0	0	0	0
EGVHGGLINK	PFN1; PFN1	P07737; K7EJ44	PROF1_HUM	Unmodified	2135100	1551600	2010400	22334	23027	25067	0	0	0
EGVHGGLINKK	PFN1; PFN1	P07737; K7EJ44	PROF1_HUM	Unmodified	2811000	3215100	4510800	0	0	0	0	0	0
EGVIEAGAFQGSPAPPLPSVMSPSR	ARFIP1	P53367	ARFP1_HUM	Oxidation (M)	553660	465770	452630	77875	85031	45107	19901	0	0
EGVKFDESEK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	1834800	1485100	1841700	159160	165430	38183	0	0	0
EGVKFDESEKTK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	12151000	13196000	13452000	850440	912030	1042600	0	0	0
EGVKFDESEKTKESR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	50490000	50446000	52620000	5499500	4740600	6209400	0	0	0
EGVKTENNDHINLK	SUMO2	P61956	SUMO2_HUM	2 Deamidation (N)	489690	575590	536660	0	0	0	0	0	0
EGVLEPNPVR	CCDC9; CCDC9	Q9Y3X0; A0A2R8	CCDC9_HUM	Unmodified	1097600	1210400	1575000	35365	67746	39761	0	0	0
EGVLPLTAASTAPISFGFTR	GPKOW	Q92917	GPKOW_HUM	Unmodified	2293000	3067900	2608200	0	0	0	0	0	0
EGVQKEDIPPADLSDQVPDTESETR	C3	P01024	CO3_HUMAN	Unmodified	1833500	3509900	4094400	0	178460	237550	0	0	0
EGVVQGVASVAEK	SNCB	Q16143	SYUB_HUM	Unmodified	1061200	919940	535490	0	0	0	0	0	0
EGYDFHSSSEFEIVK	ACTR1A; ACTR1A;	P61163; A0A1B0	ACTZ_HUM	Unmodified	1111800	1567300	1643400	0	0	23182	0	0	0
EGYNNPPISGENLIGLSR	GTF3C5; GTF3C5; G	Q9Y5Q8; Q5T7U4	TF3C5_HUM	Unmodified	1433600	1651400	1391800	27134	30864	30424	0	0	0
EGYSALPQLDIER	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM_HUM	Unmodified	3157800	685210	2828900	40665	26948	24054	0	0	0
EGYSGVGLLSR	APEX1; APEX1; APE	P27695; A0A0C4	APEX1_HUM	Unmodified	6823000	6076100	7317600	179480	149510	172250	0	14477	0
EHAALEPR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	4328300	3088400	3248200	641530	0	0	0	0	0
EHALLAYTLGVK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Unmodified	1276000	6123200	6461100	284540	26650	0	174650	257820	245990
EHALTSGTIK	ELOC; ELOC; ELOC	Q15369; R4GMY3	ELOC_HUMA	Unmodified	4857500	4169000	5299500	148780	133680	138960	0	0	0
EHAMEALLNTSTMEQATEYLLTHPPPIMGGVVR	HUWE1	Q7Z6Z7	HUWE1_HUM	3 Oxidation (M)	2575600	2429300	0	0	0	0	0	0	0
EHAMEALLNTSTMEQATEYLLTHPPPIMGGVVR	HUWE1	Q7Z6Z7	HUWE1_HUM	3 Oxidation (M);De	1106300	1442900	1189300	0	0	0	0	0	0

EHAMLAK	GSPT1; GSPT2; GSP	P15170; Q8IYD1;	ERF3A	HUM	Oxidation (M)	0	373260	0	76340	47601	0	0	0	0
EHAPSIIFMDEIDSIGSSR	PSMC5; PSMC5; PSI	P62195; J3QQM1;	PRS8	HUMA	Oxidation (M)	6064100	6553900	6335600	0	0	0	0	0	0
EHDPVGQMVNNPK	CSE1L	P55060	XPO2	HUMA	Oxidation (M)	4545200	2748800	1653500	0	0	0	0	269440	0
EHEKEVLQK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Unmodified	5957100	4525500	5478900	29224	21694	21555	0	0	0
EHGLIFMETSAK	RAB2A; RAB2B; RA	P61019; Q8WUD1	RAB2A	HUM	Oxidation (M)	19312000	14500000	16591000	726650	785830	665600	0	128350	34553
EHINLGCDMDFDIAGPSIR	VDAC1; VDAC1	P21796; C9JI87	VDAC1	HUM	Oxidation (M)	1250400	776570	870760	0	0	0	0	0	0
EHLASMIHLTPTQVK	NKX2-4; NKX2-1	Q9H2Z4; P43699	NKX24	HUM	Oxidation (M)	686280	817100	736600	0	0	0	0	0	0
EHLLLAR	TUFM	P49411	EFTU	HUM	Unmodified	5554400	4081000	5957400	665940	734680	640050	0	30924	39157
EHLLMALAGIDTLLIR	HSPG2	P98160	PGBM	HUM	Oxidation (M)	262810	0	177070	0	0	0	0	0	0
EHLMLEEELR	DSP	P15924	DESP	HUM	Oxidation (M)	967350	582010	699720	0	0	0	0	0	0
EHMGNVVEALIALTN	HYPK	Q9NX55	HYPK	HUM	Oxidation (M)	269110	196440	201180	0	0	0	0	0	0
EHMQPTHPIR	YWHAG	P61981	1433G	HUM	Oxidation (M)	0	600530	1051500	0	0	0	0	0	0
EHPWEVMPDLYFYRDPEEIEKEEQAAAEK	RPSA; RPSA; RPSA	P08865; A0A0C4I	RSSA	HUM	Oxidation (M)	7621700	6635100	8834500	0	0	0	0	0	0
EHSLIKPVQGVGSSSMPLWDFQGSTMLTSQYVR	LMAN2; LMAN2; LM	Q12907; D6RDX1	LMAN2	HUM	2 Oxidation (M)	6231400	0	0	0	0	0	0	0	0
EHSPYGPSPLGWPSSETR	MIA2; MIA2	Q96PC5; G3V599	MIA2	HUM	Unmodified	1062800	942340	958770	57488	0	43184	0	0	0
EHTALLK	RPL35A; RPL35A; R	P18077; F8WB72;	RL35A	HUM	Unmodified	938150	927440	996330	25076	0	42778	0	0	0
EHTAYYIK	UQCRC1	P31930	QCR1	HUM	Unmodified	2877800	2708600	2948200	271220	316700	422570	0	0	0
EHVAHLLFLR	ORM2	P19652	A1AG2	HUM	Unmodified	521670	607960	523020	0	0	0	0	0	0
EHVEEISELFYDAK	RUVBL1; RUVBL1	Q9Y265; H7C4G5	RUVB1	HUM	Unmodified	1690400	851970	713420	0	0	0	0	0	0
EIAEAYLGK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	6686600	6895900	7765500	119850	89394	115130	0	0	0
EIAEDELVAAEALLK	LAMA2; LAMA2; LA	P24043; A0A087	LAMA2	HUM	Unmodified	0	278340	302430	0	0	0	0	0	0
EIAEEYGGVMVSFPR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Oxidation (M)	1540200	1390500	1745500	0	0	0	0	0	0
EIAENALGK	HNRNPH3	P31942	HNRH3	HUM	Unmodified	11331000	14993000	13389000	206670	246890	247160	0	0	0
EIAENALGKHKER	HNRNPH3	P31942	HNRH3	HUM	Unmodified	3816500	3960400	0	0	0	0	0	0	0
EIAENITK	RARS1	P54136	SYRC	HUM	Unmodified	2115200	0	0	0	0	0	0	0	0
EIAETRFEVAQVESLR	TPR	P12270	TPR	HUMA	Unmodified	809160	281590	264020	0	0	0	0	0	0
EIAGHIMEFSQDQHGSR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1	HUM	Oxidation (M)	632020	722430	575520	0	0	0	0	0	0
EIAQDFK	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUM	Unmodified	142920000	219420000	170500000	36591	374300	377010	0	0	0
EIAQDFKTDLR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUMA	Methyl (KR)	514350000	544850000	478880000	2586100	2000000	2110500	78659	69733	29213
EIAQDFKTDLR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUM	Unmodified	72897000	87555000	84531000	568620	342480	583430	0	0	0
EIAQEFK	H3-2; H3-2	Q5TEC6; A0A590	H3PS2	HUM	Unmodified	2217000	2201800	2428800	0	0	0	0	0	0
EIAQEFKTDLR	H3-2; H3-2	Q5TEC6; A0A590	H3PS2	HUM	Methyl (KR)	10949000	0	9906700	0	0	0	0	0	0
EIDGGLETLR	ETFB; ETFB	P38117; M0QY67	ETFB	HUM	Unmodified	4726800	5200100	5286300	195030	170430	190040	0	0	0
EIEDAEKYSFMATVTK	AHCYL1	O43865	SAHH2	HUM	Oxidation (M)	478380	525240	470200	0	0	0	0	0	0
EIEDPEDR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	11953000	12495000	14277000	688330	608350	728610	0	0	0
EIEDPEDRKPEDWDERPK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	16163000	14891000	11887000	388630	565230	466970	0	0	255650
EIEELKELLPEIR	NASP; NASP; NASP	P49321; E9PRH9;	NASP	HUM	Unmodified	13055000	9112100	12004000	0	0	0	0	0	0
EIEPHTIANLLR	N/A	N/A	N/A		Unmodified	5911400	15285000	5553500	0	0	0	0	0	0
EIEQEAAVELSQLR	UQCRFS1	P47985	UCRI	HUMA	Unmodified	1033400	0	1008400	0	0	0	0	0	0
EIESSPQYR	ATXN2L; ATXN2L;	Q8WWM7; H3BS	ATX2L	HUM	Unmodified	8706000	7471200	8513500	626470	657930	689130	0	0	0
EIEVPDQYGTIR	EML4; EML4	Q9HC35; B5MBZ	EML4	HUM	Unmodified	2870800	1913100	2043900	0	0	107780	0	0	0
EIEYEVVR	CAD; CPS1; CAD; C	P27708; P31327;	PYR1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EIFAQEALAPFR	CHDH	Q8NE62	CHDH	HUM	Unmodified	0	0	1329600	0	11343	0	0	0	8418.9
EIFDSRGNPTVEVDLFTSK	ENO1; ENO1; ENO1	P06733; K7ERS8;	ENOA	HUM	Unmodified	58833000	27239000	40327000	24511	0	11126	0	0	0
EIFDSRGNPTVEVDLFTSKGLFR	ENO1; ENO1; ENO1	P06733; K7ERS8;	ENOA	HUM	Unmodified	1217300	0	0	0	0	0	0	0	0
EIFDSRGNPTVEVDLFTSKGLFR	ENO1; ENO1; ENO1	P06733; K7ERS8;	ENOA	HUM	Methyl (KR)	3327300	0	1335700	0	0	0	0	0	0
EIFNFVLK	PRKDC	P78527	PRKDC	HUM	Unmodified	4907300	3262400	6333200	0	0	17302	0	20162	0
EIFVDFAPFLSR	NBEA; LRBA; LRBA	Q8NFP9; P50851;	NBEA	HUM	Unmodified	0	30713	88975	0	0	0	0	0	0
EIGDYIR	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1	HUM	Unmodified	7812700	8024600	6887200	0	0	0	0	0	0
EIGELYLPK	SERPINA3; SERPIN/	P01011; G3V3A0	AACT	HUM	Unmodified	8074100	8898200	8573900	122020	88598	28357	0	0	0
EIGELYLPKFSISR	SERPINA3; SERPIN/	P01011; G3V3A0	AACT	HUM	Methyl (KR)	346590	354230	280920	0	0	0	0	0	0
EIGGDVQK	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUM	Unmodified	3202500	2435500	3480600	395330	0	247180	0	0	0
EIGGDVQKHAEMVHTGLKLER	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUM	Oxidation (M)	1115200	1292200	1026800	0	0	0	0	0	0
EIGIDPIKEPELMWLAR	CEP164; CEP164; CI	Q9UPV0; E9PLS8	CE164	HUM	Oxidation (M)	214970	174080	142350	0	0	0	0	0	0
EIGNIISDAMK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Oxidation (M)	1866300	0	0	0	0	0	0	0	0
EIGQSVDEVEK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	3001400	2989700	3220700	416640	0	341990	0	0	0
EIGQSVDEVEKLIK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	3824100	2395700	2591000	0	0	0	0	0	0
EIGWTDVGGWTGQGGSILGTK	PFKP; PFKP; PFKP;	Q01813; A0A7I2V	PFKAP	HUM	Unmodified	812530	892970	0	0	0	0	0	0	0
EIHPPFKPATGRPEDTFYFDPEFTAK	RPS6KA3; RPS6KA3	P51812; B7ZB17;	KS6A3	HUM	Unmodified	1718200	1084800	1284000	0	0	0	0	0	0
EIIDLVLDR	TUBA1A; TUBA1C;	Q71U36; Q9BQE	TBA1A	HUM	Unmodified	2043000	1831100	1927900	314550	370520	354950	360260	502730	128690
EIIDLVLDRIR	TUBA1A; TUBA1C;	Q71U36; Q9BQE	TBA1A	HUM	Unmodified	1002400	511900	867380	0	0	0	0	0	0
EIINTYTEAVQTVDPFK	XAB2	Q9HC57	SYF1	HUM	Unmodified	0	548110	0	0	0	0	0	0	0
EIISNLAK	SF3B1	O75533	SF3B1	HUM	Unmodified	3620900	2340300	2093200	39240	39261	48297	0	0	0
EIKDILIQYDR	RPS16; RPS16	P62249; M0R210	RS16	HUM	Unmodified	1502300	1648500	1491400	0	0	0	0	0	0
EIKSQQSEVTR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Unmodified	6828300	7634900	7105500	32049	0	24895	0	0	0
EILAELTGR	PDHA1; PDHA1; PDI	P08559; Q5JPU0;	ODPA	HUM	Unmodified	4454600	3646600	3958100	19660	11203	0	15969	0	0
EILDAFDK	PSAP; PSAP; PSAP	P07602; A0A0J9	SAP	HUMA	Unmodified	1245300	900690	830350	0	0	0	0	0	0
EILDESLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	1191900	1466000	1247400	105800	0	55596	0	0	0
EILDKFTEEVVK	ALDH9A1	P49189	AL9A1	HUM	Unmodified	0	0	5512300	0	0	0	0	0	0
EILDSRGNPTVEVDLYTAK	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG	HUM	Unmodified	1400400	686650	1681900	0	0	0	0	0	0
EILEFPARDVYVPNTTYR	DOCK7; DOCK7	Q96N67; A0A1B0	DOCK7	HUM	Unmodified	467740	480010	501350	0	0	0	0	0	0
EILEFPARDVYVPNTTYR	DOCK7; DOCK7	Q96N67; A0A1B0	DOCK7	HUM	Deamidation (N)	432790	416250	469820	0	0	0	0	0	0
EILFYDR	NSUN2	Q08J23	NSUN2	HUM	Unmodified	2575700	2125200	2774100	40286	53272	0	0	0	0
EILKEQENR	PARK7; PARK7; PAI	Q99497; K7ELW0	PARK7	HUM	Unmodified	1456200	1430300	2003100	0	0	0	0	0	0
EILKEQENRK	PARK7; PARK7; PAI	Q99497; K7ELW0	PARK7	HUM	Unmodified	0	2250800	936750	0	0	0	0	0	0
EILQAIKEMQK	CEP290; CEP290; CI	O15078; A0A6Q8	CE290	HUM	Methyl (KR)	0	0	2970500	0	0	0	0	0	0
EILQEEEDLAEIVQLVGK	ATP6V1A	P38606	VATA	HUM	Unmodified	77229	0	22032	0	0	0	0	0	0
EILVEESNVQR	PPP4C; PPP4C; PPP	P60510; H3BV22;	PP4C	HUM	Unmodified	1341800	1743200	1829000	92345	0	0	0	0	0
EILVGDVGQTVDDPYATFVK	CFL1; CFL1; CFL1;	P23528; G3V1A4;	COF1	HUM	Unmodified	16338000	13075000	15645000	48566	0	51530	67965	53152	64905
EILVGDVGQTVDDPYATFVK	CFL1; CFL1; CFL1;	P23528; G3V1A4;	COF1	HUM	Methyl (KR)	4607900	3074700	5141600	0	0	0	0	0	0
EIMAEDDQVFLMKLQSLLAK	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1	HUM	2 Oxidation (M)	1647300	401350	799410	0	0	0	0	0	0
EIMDAAEDYAK	DARS1; DARS1	P14868; H7C278	SYDC	HUM	Oxidation (M)	347400	566520	445560	0	0	0	0	0	0
EIMNDLEK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Oxidation (M)	718660	579130	894940	0	0	0	0	0	0
EIMNDLEK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Oxidation (M);Dea	581970	962820	506130	0	0	0	0	0	0
EINNPMFR	U2SURP; U2SURP	O15042; E7ET15	SR140	HUM	Oxidation (M)	680260	0	1390200	0	0	0	0	0	0
EINYILR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	6881500	4277900	4883100	52543	0	0	0	0	0
EIPAWVPFDPAAQITK	AZGP1; AZGP1	P25311; C9JEV0	ZA2G	HUM	Unmodified	0	266650	0	0	0	0	0	0	0
EIQAPASADIR	RRP9	O43818	U3IP2	HUM	Unmodified	1158200	945090	813970	0	33047	43563	0	0	0
EIQELQSKPDR	AFDN; AFDN; AFDN	P55196; H0Y8L4;	AFAD	HUM	Unmodified	838280	945270	540420	0	55475	109820	0	0	0
EIQEPDPTYEEK	SMARCA5	O60264	SMCA5	HUM	Unmodified	1148700	1349600	984210	0	0	0	0	0	0
EIQGFFNIPVDNLR	PRPSAP2; PRPSAP2	O60256; E7EPA1;	KPRB	HUM	Unmodified	682480	469030	694300	0	0	0	0	0	0
EIQTAVR	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	Unmodified	21807000	12515000	18688000	916400	812570	775830	0	0	0
EIQTAVRLLLPGELAK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C	HUM	Unmodified	5994800	2686200	5193900	242190	100700	16562	196510	11854	0
EIQTTTGNQQVLVR	RDH11	Q8TC12	RDH11	HUM	Unmodified	767550	487280	771760	261750	395240	235260	0	0	0
EIQTTTGNQQVLVR	RDH11	Q8TC12	RDH11	HUM	Deamidation (N)	0	0	0	82981	72357	111880	0	0	0
EIQVIPLQR	IMPA1	P29218	IMPA1	HUM	Unmodified	4000100	3584400	3212300	57573	0	62082	0	0	0
EIQVIPLQRDDED	IMPA1	P29218	IMPA1	HUM	Unmodified	15703000	13232000	14667000	189350	262900	226810	0	0	0
EIQVQHPAAK	CCT3; CCT3; CCT3;	P49368; Q5SZX9;	TCPG	HUM	Unmodified	3421100	3599500	3091400	289390	226450	331430	0	0	0
EIRPALELLEPIEQK	GDI2	P50395	GDIB	HUM	Unmodified	4064800	4796100	3645600	10100	0	0	0	0	0
EISEGDEVEVYSR	FXR1; FXR1; FXR1	P51114; B4DXZ6;	FXR1	HUM	Unmodified	607980	614130	3389300	0	0	0	0	0	0
EISESTPVEEVEALFK	LARP4B	Q92615	LAR4B	HUM	Unmodified	249450	156180	236250	0	0	0	0	0	0
EISFAYEVLSNPEKR	DNAJA2	O60884	DNJA2	HUM	Unmodified	881050	1024000	788850	0	0	0	0	0	0
EISLLPDNLLR	PDK1; PDK1; PDK1;	Q15118; C9JYB4;	PDK1	HUM	Unmodified	572420	519140	464110	0	0	0	0	0	0
EISNFEYLMFLNTIAGR	NBEA; LRBA; LRBA	Q8NFP9; P50851;	NBEA	HUM	Oxidation (M)	280210	41920	194790	0	0	0	0	0	0
EISYENTQISR	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	552080	0	649320	0	0	0	0	0	0
EITALAPSTMK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	Oxidation (M)	318950000	326590000	391250000	8984900	8218900	8816400	0	1203200	1085600
EITALAPSTMK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	Oxidation (M);Met	3825300	2958700	3611600	0	0	0	0	0	0
EITALAPSTMKIK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	Oxidation (M)	20793000	26053000	23234000	2077700	1744600	2041100	721310	783120	0
EITALAPSTMKIK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	Oxidation (M);Met	34298000	34934000	29274000	1078100	1103300	1252300	164290	197380	0
EITGIGPSTTTETETIAK	VPS26A; VPS26A	O75436; S4R3Q6	VP26A	HUM	Unmodified	782250	464400	658480	0	0	0	0	0	0
EITLENKDNIR	ATG3; ATG3	Q9NT62; C9JNW8	ATG3	HUM	Unmodified	645120	0	721470	0	0	0	0	0	0
EIVEVKEENIEDATEK	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	Unmodified	966000	846320	687370	0	0	0	0	0	0
EIVHLQAGQCGNQIGAK	TUBB4A; TUBB4B;	P04350; P68371;	TBB4A	HUM	Unmodified	2967300	2473500	2673600	48172	59964	30229	19293	0	17615
EIVLADVIDNDSWR	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6	HUM	Unmodified	1023400	800330	1417400	0	0	0	0	0	0
EIVPVLVSTR	ACAT2	Q9BWD1	THIC	HUM	Unmodified	1576200	106380	1368500	0	0	0	0	0	0
EIVRDIKEK	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ	HUM	Unmodified	3449600	3580600	0	0	104080	69189	0	0	0
EIWGVEPSDLQIPPPNIPRD	PYGB	P11216	PYGB	HUM	Unmodified	2642800	1847200	2079600	0	0	0	0	0	0
EIYTHFTCATDTK	GNAI3; GNAI2; GNA	P08754; P04899;	GNAI3	HUM	Unmodified	702670	0	1013700	20161	20180	22767	0	0	0
EKAEELAAR	UBXN1; UBXN1; UB	Q04323; E9PS08;	UBXN1	HUM	Unmodified	1194500	2576700	2564600	0	154440	0	0	0	0
EKAEGDVAALNR	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4	HUM	Unmodified	1361400	1814100	959900	249900	346140	602450	0	0	0
EKAEGDVAALNRR	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EKAELQEQLR	N/A	N/A	N/A		Unmodified	0	469880	679820	0	0	0	0	0	0
EKAPSIIFIDELDAIGTK	PSMC3; PSMC3; PSI	P17980; E9PN50;	PRS6A	HUM	Unmodified	192610	575610	581700	0	0	0	0	0	0
EKAQALEDLAGFKELFQTR	MKI67	P46013	KI67	HUMA	Unmodified	970290	879860	830510	0	0	0	0	0	0
EKDIQEESTFSSR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	12108000	15377000	16808000	778620	595260	990200	0	0	0
EKDKHIEEVR	STMN1	P16949	STMN1	HUM	Unmodified	743070	642180	778890	0	0	12273	0	0	0
EKDRDPEAQFEMPYVVR	PRMT5; PRMT5; PR	O14744; H0YJD3;	ANM5	HUM	Oxidation (M)	2349000	1788800	2081400	101300	0	0	0	0	0
EKDSPTPETFQMLSPPK	PLOD2	E7ETU9	E7ETU9	HUM	Oxidation (M)	594120	1295900	1445000	0	0	0	0	0	0
EKDVQFEHGYR	TM9SF4; TM9SF4	Q92544; A0A0C4	TM9S4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EKEDDVPQFTSAGENFDK	LAP3; LAP3	P28838; H0Y983	AMPL	HUM	Unmodified	0	421330	476370	0	0	0	0	0	0
EKEDDVPQFTSAGENFDKLLAGK	LAP3; LAP3	P28838; H0Y983	AMPL	HUM	Unmodified	1228200	905530	1248000	0	0	0	0	0	0
EKEDPEPSTDGTYVWK	PCYOX1	Q9UHG3	PCYOX	HUM	Unmodified	675670	583140	625620	40556	0	0	0	0	0

EKEEDSSGHTR	MSH6; MSH6; MSH6	P52701; A0A494C	MSH6	HUMA	Unmodified	0	105470	0	0	0	0	0	0
EKEEFAVPENSSVQQFK	UBQLN2; UBQLN1	Q9UHD9; Q9UM2	UBQL2	HUM	Deamidation (N)	791700	642690	665840	0	0	0	0	0
EKEEFAVPENSSVQQFKEEISKR	UBQLN1	Q9UMX0	UBQL1	HUM	Deamidation (N)	832140	788610	0	0	0	0	0	0
EKEELEQREAELQKVR	EIF3A	Q14152	EIF3A	HUMA	Unmodified	863660	0	974510	0	0	0	0	0
EKEELIEEWQPEPLVPPVPK	SPTLC1; SPTLC1; SI	O15269; A0A2R8	SPTC1	HUM	Unmodified	919130	809950	0	0	0	0	0	0
EKEELMER	RDX; MSN; RDX; RI	P35241; P26038;	RADI	HUMA	Oxidation (M)	819360	748750	900580	0	109460	0	0	0
EKEIAETRFEVAQVESLR	TPR	P12270	TPR	HUMAN	Unmodified	1635400	1775500	1400600	0	0	0	0	0
EKEKEEPPGEKVAN	AFG3L2	Q9Y4W6	AFG32	HUM	Unmodified	853460	911060	471470	0	254000	195160	0	0
EKEMKQELLEK	N/A	N/A	N/A		3 Methyl (KR)	8549200	18503000	1151100	0	0	0	0	0
EKEPEYTLLTER	STAU1; STAU1	O95793; Q5JW30	STAU1	HUM	Unmodified	915210	1036600	0	20956	0	40571	0	0
EKEQFR	HNRNPA2B1; IPO13	P22626; O94829;	ROA2	HUMA	Unmodified	20542000	12620000	22924000	643670	223550	0	7824.1	12909
EKESELGDRPLQVGER	SMCHD1	A6NHR9	SMHD1	HUM	Unmodified	0	2237200	3002900	0	0	0	0	0
EKFEGVELNTDEPPMVFK	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Oxidation (M);Deai	601270	612900	698790	0	0	0	0	0
EKFEGVELNTDEPPMVFK	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Oxidation (M)	0	0	0	0	0	0	0	0
EKFILPEGASQGMTPFR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Oxidation (M)	706330	850450	0	28628	33535	27391	0	0
EKGAPPPGEPGLSHSGSEQPEQTGLLMGGASGGAR	BCAM	P50895	BCAM	HUM	Oxidation (M)	1101500	740720	879810	491750	338590	318900	113130	0
EKGMITVTDPDLIEK	UBA6; UBA6	A0AVT1; H0YS8	UBA6	HUMA	Oxidation (M)	623370	727530	0	77193	0	55494	0	0
EKGSVGAVPSGTSPGGVATTAAAGSR	NFXL1	Q6ZNB6	NFXL1	HUM	Unmodified	2498600	1904300	2205200	55398	145650	126040	0	0
EKHMQKQQEREK	ZC3H11A; ZC3H11A	O75152; E9PQ61	ZC11A	HUM	4 Methyl (KR)	626550	482600	1013200	0	0	0	0	0
EKIDLENTLEQEQEALVNR	CCDC6	Q16204	CCDC6	HUM	Unmodified	3568100	2528700	1967800	0	0	0	0	0
EKIDLENTLEQEQEALVNR	CCDC6	Q16204	CCDC6	HUM	Deamidation (N)	596080	275410	1789700	0	0	0	0	0
EKIEDAKESQR	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Unmodified	7137100	6430600	6418400	0	0	35848	0	0
EKINEDMRLMR	RAD50; N/A	Q92878; A0A1W2	RAD50	HUM	2 Oxidation (M);2 I	0	0	0	0	0	0	0	0
EKLAQKMESNKENR	STMN4; STMN4; ST	Q9H169; E7EVN3	STMN4	HUM	Methyl (KR)	640390	264100	0	0	0	0	0	0
EKLCYVALDFEQEMATAASSSSLEK	POTEE; ACTG1; AC	Q6S8J3; P63261;	POTEE	HUM	Oxidation (M)	1459100	1452800	1637100	0	0	0	0	0
EKLEMEMEAARHEHQVMLMR	NONO; NONO; NON	Q15233; A0A7Z	NONO	HUM	4 Oxidation (M)	14892000	16860000	19940000	80142	0	97524	0	0
EKLPGELEPVQATQNK	EIF3G; EIF3G; EIF3(	O75821; K7EL20;	EIF3G	HUMA	Unmodified	363120	360620	658220	0	0	0	0	0
EKLQEEMLQR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M)	485310	366520	477200	96154	0	111560	0	0
EKLQEEMLQREEAENTLQSFR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M)	3026800	3388000	2429400	138440	0	24696	0	0
EKLQEEMLQREEAENTLQSFRQDVDNASLAR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M);Deai	2512300	0	1385900	0	0	0	0	0
EKLQEEMLQREEAENTLQSFRQDVNASLAR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M)	5912000	3482600	4341900	0	0	0	0	0
EKLVDPQEMLR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Oxidation (M)	2009600	2407800	2376400	0	28954	46484	0	0
EKMDLTAKELTEKESAFEFLSSA	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM	Oxidation (M)	8639000	5726400	6412700	0	0	0	0	0
EKNECRKQPFQR	PLCE1; PLCE1; PLC	Q9P212; A0A6Q8	PLCE1	HUM	4 Methyl (KR);Dea	3530400	3194500	0	0	0	16058	0	0
EKNRQVNELVR	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Deamidation (N)	1526400	1411100	2209500	83629	0	0	0	0
EKPDDPLNYFLGGCAGGLTLGAR	NDUFA11; NDUFA1	Q86Y39; K7EQ77	NDUAB	HUM	Unmodified	529670	219940	409330	0	0	0	0	0
EKPEEESLAAPTWLVHLQQVER	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	2373400	2584100	2583700	0	0	0	0	0
EKPPITVVGDVGGR	PRPSAP1; PRPSAP2	Q14558; O60256;	KPRA	HUMA	Unmodified	25840000	28289000	20141000	105930	121220	0	0	0
EKPSYDTETDPSEGLMNVLK	CACYBP	Q9HB71	CYBP	HUMA	Oxidation (M)	1826800	2761900	2932900	32045	52301	31197	0	0
EKPYFPIPEEYTFIQNVPLEDR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	26141000	20607000	0	0	0	0	0	0
EKPYFPIPEEYTFIQNVPLEDR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Methyl (KR)	1529700	970140	1369100	0	0	0	0	0
EKPYFPIPEEYTFIQNVPLEDRVR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	15981000	16243000	13531000	0	0	0	0	0
EKPYFPIPEEYTFIQNVPLEDRVR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Methyl (KR)	1014000	686930	973240	0	0	0	0	0
EKQAKGDTEF	CACYBP	Q9HB71	CYBP	HUMA	Unmodified	1791500	1269400	3060500	843020	967420	846410	0	0
EKQAQLAQTLQQQEQASQGLR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Unmodified	1392800	1558800	1423900	0	0	0	0	0
EKQDTFALASQQK	ACAA1; ACAA1; AC	P09110; C9JDE9;	THIK	HUMA	Unmodified	609170	592100	526640	212130	173260	181840	0	0
EKQLAAENR	MYH9	P35579	MYH9	HUM	Unmodified	721580	630700	909280	139370	11046	0	0	0
EKQLAAENR	MYH9	P35579	MYH9	HUM	Deamidation (N)	158920	224120	0	18189	21027	34415	0	0
EKQPAEPPAPLR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	1602600	0	875320	79692	111550	109360	140370	155180
EKQPDPESAPSQKLTGIAQPK	TGIF2LX	Q8IUE1	TF2LX	HUM	Unmodified	998270	864310	820900	111010	76787	100220	0	0
EKQPMVPESLADYITAAYVEMR	MCM7	P33993	MCM7	HUM	2 Oxidation (M)	2193200	0	0	0	0	0	0	0
EKQPMVPESLADYITAAYVEMRR	MCM7	P33993	MCM7	HUM	2 Oxidation (M)	1759100	1921200	1856500	0	0	0	0	0
EKQPPIDNIIR	KPNA2; KPNA2; KPI	P52292; J3QLL0;	IMA1	HUMA	Unmodified	5511400	4367700	4321000	0	14578	0	0	0
EKQPVTGTEGAFYR	LMCD1; LMCD1; LN	Q9NZU5; H7C3D	LMCD1	HUM	Unmodified	1198200	1675900	1351200	11197	0	23754	22100	0
EKQSDDEVYAPGLDIESSLKQLAER	SF3A1	Q15459	SF3A1	HUM	Unmodified	2104200	1651000	2684400	0	0	0	0	0
EKVEELIK	TOP2B	Q02880	TOP2B	HUM	Unmodified	894840	1957500	3796200	0	0	0	0	0
EKVESELR	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Unmodified	2144200	3082100	2884100	901280	983420	487950	0	0
EKVGEVTYVELLMDAEGK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Oxidation (M)	3047100	2236400	2608200	0	0	0	0	0
EKVPGGLQGSQDR	YLPM1; YLPM1	P49750; H0YIQ2	YLPM1	HUM	Unmodified	2666100	2708500	2222300	122590	127990	124330	26350	31627
EKWLPYEAGQR	DSP	P15924	DESP	HUMA	Methyl (KR)	758180	587600	0	0	0	0	0	0
EKYEITEQR	RPL6	Q02878	RL6	HUMAN	Unmodified	1161500	943070	881290	0	154260	247450	0	0
EKYEKDIAAYR	HMGB2; HMGB1	P26583; P09429	HMGB2	HUM	Unmodified	551820	0	713100	0	0	0	0	0
EKYEKDIAAYR	HMGB2; HMGB1	P26583; P09429	HMGB2	HUM	Methyl (KR)	1530600	1661000	1370400	0	0	0	0	0
EKYIDQEELNK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Unmodified	5539100	5486000	4944900	239620	230260	243670	0	0
EKYIDQEELNK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Methyl (KR)	0	0	549150	0	0	0	0	0
EKYPSHSFIGEESVAAGEK	IMPA1; IMPA1; IMP	P29218; E5RG94;	IMPA1	HUM	Unmodified	2161500	2141600	1684700	0	0	0	0	0
EKYVQELAAVR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1816800	1269000	1376000	0	0	0	0	0
ELAAQLNEEAK	SUPT16H	Q9Y5B9	SP16H	HUM	Deamidation (N)	480440	500150	437360	0	0	0	0	0
ELAAQLNEEAK	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	4996700	6256000	4557900	0	0	0	0	0
ELAAQLNEEAKR	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	0	2517900	0	0	41679	45815	0	0
ELAEAMAAQHTAESECEQLVK	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Oxidation (M)	1225000	999430	1398600	0	0	0	0	0
ELAEAVAGGR	UBA2; UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUMA	Unmodified	17313000	14391000	16089000	266950	207020	323410	0	0
ELAEDDSILK	ATP5ME	P56385	ATP5I	HUM	Unmodified	25799000	24918000	22626000	2802000	2935100	3201300	0	0
ELAEDGYSGVEVR	RPS3; RPS3; RPS3; F	P23396; H0YF32;	RS3	HUMAN	Unmodified	18810000	22567000	17829000	1399100	1083900	1521300	0	0
ELAEQLGLSTGEK	EIF3G; EIF3G; EIF3(	O75821; K7EL20;	EIF3G	HUM	Unmodified	1146200	772810	0	0	0	0	0	0
ELAETLQQK	PTRHD1	Q6GMV3	PTRD1	HUM	Unmodified	560600	672170	496720	0	0	0	0	0
ELAFQISK	DDX39B; DDX39A; I	Q13838; O00148;	DX39B	HUM	Unmodified	3791500	4315800	5048300	24045	13545	14128	0	0
ELAFQISKEYER	DDX39B; DDX39A; I	Q13838; O00148;	DX39B	HUM	Unmodified	2026000	2499700	2822300	60656	0	0	0	0
ELAGGLEDGEPQQKR	ELAC2; ELAC2; ELA	Q9BQ52; E7ES68	RNZ2	HUMA	Unmodified	708940	1223300	1497300	0	0	0	0	0
ELAGHTGYLSCCR	GNB1; GNB1; GNB1	P62873; B3KVK2	GBB1	HUMA	Unmodified	6365200	4526800	5618700	535440	276980	632840	0	26555
ELAHFPYVVVPR	ADCK5	Q3MIX3	ADCK5	HUM	Unmodified	0	0	0	0	0	0	0	0
ELAILLGMLDPAEK	PRDX6	P30041	PRDX6	HUM	Oxidation (M)	0	105840	180270	0	0	0	0	0
ELAKVEEEIQTLSQVLAAK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52	HUM	Unmodified	1696400	116210	1284900	0	0	0	0	0
ELALGQDR	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD	HUM	Unmodified	9629400	10298000	9925200	45007	87020	51361	0	0
ELALGQDRILIR	DDT; DDT	P30046; J3KQ18	DOPD	HUM	Unmodified	527440	542210	842490	0	12734	0	0	0
ELALPGELTQSR	VPS26A; VPS26A	O75436; S4R3Q6	VP26A	HUM	Unmodified	3690300	2854600	3809500	60966	71379	83798	0	0
ELALRNELIR	SPTBN1; SPTB; SPT	Q01082; P11277;	SPTB2	HUM	Unmodified	312820	234760	237610	0	0	0	0	0
ELAMPGEDLK	TUFM	P49411	EFTU	HUMA	Oxidation (M)	2180800	1845600	2181600	0	0	0	0	0
ELAPYDENWFYTR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19	HUMA	Unmodified	2867300	2202500	1664800	0	0	0	0	0
ELAQNASSDTPMDPVTFQTLPSDLRR	HUWE1	Q7Z6Z7	HUWE1	HUM	Oxidation (M)	5658500	5589300	3828500	0	0	0	0	0
ELAQNASSDTPMDPVTFQTLPSDLRR	HUWE1	Q7Z6Z7	HUWE1	HUM	Oxidation (M);Deai	6001900	5034500	4794900	0	0	0	0	0
ELAQQIQK	EIF4A1; EIF4A2; EIF	P60842; Q14240;	IF4A1	HUMA	Unmodified	1924000	1857700	2275900	0	0	0	0	0
ELAQQVQQVAAEYCR	DDX5; DDX5; DDX5	P17844; A0A7Z	DDX5	HUMA	Unmodified	2450800	2428600	3431400	0	0	0	0	0
ELAQQVQQVADDYGK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	3071200	2422300	2184900	0	60965	0	0	0
ELASQPDVDGFLVGGASLKPEFVDIINAK	TPI1	P60174	TPIS	HUMA	Unmodified	1396900	289080	895560	0	0	0	0	0
ELASQPDVDGFLVGGASLKPEFVDIINAKQ	TPI1	P60174	TPIS	HUMA	Unmodified	2942400	605620	1260600	0	0	0	0	0
ELASQPDVDGFLVGGASLKPEFVDIINAKQ	TPI1	P60174	TPIS	HUMA	Deamidation (N)	1024100	0	0	0	0	0	0	0
ELATLQR	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1	HUM	Unmodified	4475700	3613600	2374100	403590	354150	131590	0	6020.5
ELAVQIQK	EIF4A3	P38919	IF4A3	HUMA	Unmodified	2419400	2189600	2804200	0	0	0	0	0
ELDALDANDELTPLGR	DHX9	Q08211	DHX9	HUMA	Unmodified	1621900	1278800	901050	0	0	0	0	0
ELDALDANDELTPLGR	DHX9	Q08211	DHX9	HUMA	Deamidation (N)	1377400	2674800	2977400	0	0	0	0	0
ELDDATEANEGLSR	MYH10	P35580	MYH10	HUM	Unmodified	1379500	1157100	2074900	0	158580	147160	0	0
ELDDATEANEGLSR	MYH10	P35580	MYH10	HUM	Deamidation (N)	671240	843560	0	0	0	93235	0	0
ELDEEGSDPPPLPGR	C7orf50; C7orf50; C7	Q9BRJ6; C9JQV0	CG050	HUM	Unmodified	796530	990580	1197400	0	0	0	0	0
ELDIMEPK	PSMD2	Q13200	PSMD2	HUM	Oxidation (M)	3572400	1174300	3958600	222390	208730	194990	0	0
ELDIMEPKVPDDIYK	PSMD2	Q13200	PSMD2	HUM	Oxidation (M)	1268900	1246200	1451500	0	0	0	0	0
ELDLASLR	RDH14	Q9HBH5	RDH14	HUM	Unmodified	1847300	1762100	2463500	127410	114890	146130	8684.3	0
ELDLNSVLLK	RNASET2; N/A; RN/	O00584; H0YAE9	RNT2	HUMA	Unmodified	683130	641840	586640	0	0	0	0	0
ELDLYDNQIK	PPP1R7; PPP1R7; PI	Q15435; C9JRC4;	PP1R7	HUM	Unmodified	727980	905700	0	45065	28679	0	0	0
ELDRLLSGFGLER	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	968830	731930	847930	0	0	0	16646	0
ELDSITPEVLPGWK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	7998300	6505600	6020200	0	0	0	0	0
ELDTVTLEDIKEHVK	PSMD3	O43242	PSMD3	HUM	Unmodified	0	0	0	0	0	0	0	0
ELDYFAK	PGK2	P07205	PGK2	HUMA	Unmodified	2711300	3304600	2508600	0	0	19821	0	0
ELEAELEDER	MYH10	P35580	MYH10	HUM	Unmodified	1384000	732110	1115200	93695	0	0	0	0
ELEAENYHDIKR	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Unmodified	687530	489430	479220	0	0	0	0	0
ELEAIFGRPVVDGEEGEPHSISPR	MAP2K2; MAP2K2	P36507; G5E9C7	MP2K2	HUM	Unmodified	1458500	0	0	0	0	0	0	0
ELEALDEVFTK	NENF	Q9UMX5	NENF	HUMA	Unmodified	4856800	4267200	4172300	0	10191	0	8956	0
ELEDATETADAMNR	MYH9	P35579	MYH9	HUM	Oxidation (M)	6069700	4188000	4737500	513100	472520	435500	0	0
ELEDATETADAMNREVSSLK	MYH9	P35579	MYH9	HUM	Oxidation (M);Deai	1608300	1173200	1141400	0	54538	82039	0	0
ELEDATETADAMNREVSSLK	MYH9	P35579	MYH9	HUM	Oxidation (M)	8875800	5295200	7616100	0	0	0	0	0
ELEDATETADAMNREVSSLKNK	MYH9	P35579	MYH9	HUM	Oxidation (M)	1808600	1012600	1785800	0	0	0	0	0
ELEDVTESAESMNREVTTLR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Oxidation (M)	1974200	688270	2114200	0	0	0	0	0
ELEDVTESAESMNREVTTLR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Oxidation (M);Deai	447040	0	592830	0	0	0	0	0
ELEDYIDNLLVR	RAB11FIP2; RAB11I	Q7L804; Q6WKZ	RFIP2	HUM	Unmodified	188820	121340	166050	0	0	0	0	0
ELEEAMAGER	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	3108400	1794100	2620200	367380	293010	322480	0	0
ELEEDFIK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	18320000	19336000	17963000	0	0	0	0	0
ELEEDFIKSELK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	1366100	1465400	1093500	8783.9	0	0	0	0
ELEEDFIKSELK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Methyl (KR)	660400	559490	546840	0	0	0	0	0
ELEEDFIKSELKK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	3686400	4138600	2845800	0	0	0	0	0
ELEEETGYK	NUDT5; NUDT5; NU	Q9UKX9; H0YEY	NUDT5	HUM	Unmodified	1806700	2777600	1926000	0	0	0	0	0
ELEEEWVK	CKAP5	Q14008	CKAP5	HUM	Unmodified	648890	0	0	0	0	0	0	0
ELEEIVQPIISK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	19739000	18210000	17074000	19545	0	14555	11029	0

ELEERER	JAKMIP3; CWC15; J	Q5VZ66; Q9P013	JKIP3	HUMA	Unmodified	1335000	0	0	0	0	0	0	0	0
ELEEWYAR	CLTA; CLTA; CLTA	P09496; C9J8P9; I	CLCA	HUMA	Unmodified	1219600	1043700	1530400	0	0	0	0	0	0
ELEEWYARQDEQLQK	CLTA; CLTA; CLTA	P09496; C9J8P9; I	CLCA	HUMA	Unmodified	319010	409630	630890	0	0	0	0	0	0
ELEFYLR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Unmodified	1257300	1420300	1127700	63685	74683	0	0	0	0
ELEGPVYSR	SRGAP2; SRGAP2; S	O75044; Q5VZB4	SRGP2	HUM	Unmodified	1809400	1551000	2241400	110260	74447	118170	0	0	0
ELEIEER	EIF3A	Q14152	EIF3A	HUMA	Unmodified	0	1542200	0	0	177250	142220	0	0	0
ELEIEERER	EIF3A	Q14152	EIF3A	HUMA	Unmodified	756970	657270	716240	43456	0	0	0	0	0
ELELKVPLVVR	SUCLG2; SUCLG2	Q96I99; H0Y852	SUCB2	HUM	Unmodified	1073200	580900	602520	12635	0	0	0	0	0
ELENFRNLLQNIH	ERO1A	Q96HE7	ERO1A	HUM	Deamidation (N)	120780	137250	0	0	0	0	0	0	0
ELENLSKEQLQK	N/A	N/A	N/A		Unmodified	2023000	557580	1385300	0	0	0	0	0	0
ELEPITTSQALQIAGR	SUPV3L1	Q8IYB8	SUV3	HUMA	Unmodified	1424900	2053200	1221100	0	0	0	0	0	0
ELEQLGR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	0	0	1547100	128520	191000	208130	0	0	0
ELEQTAENKPLGESFAEFR	SYNRG	Q9UMZ2	SYNRG	HUM	Unmodified	0	496160	642080	24366	0	27682	0	0	0
ELEQVCNPIISGLYQGAGGPGPGGFGAQGPK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	11176000	9620600	11453000	0	0	0	0	0	0
ELESAHHPFTAPHPSDIHLLYTEPK	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM	HUM	Unmodified	4051900	6808300	7892300	0	0	0	0	0	0
ELESFLR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	342400	301320	207690	0	0	0	0	0	0
ELESQISELQEDLESER	MYH9	P35579	MYH9	HUM	Unmodified	12970000	8012000	10151000	0	0	0	0	0	0
ELESQISELQEDLESERASR	MYH9	P35579	MYH9	HUM	Unmodified	857020	1523500	864180	0	0	0	0	0	0
ELESVGIR	DRG2; DRG2; DRG2	P55039; J3QKW7	DRG2	HUMA	Unmodified	0	3154000	0	0	0	0	0	0	0
ELETVAAHQFPEVR	NCLN; NCLN; NCLN	Q969V3; K7ENM	NCLN	HUM	Unmodified	1553200	1703200	1927700	30728	30002	36826	0	0	0
ELEVMTAK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	0	0	2283300	0	52298	49881	0	0	0
ELEVQHPAAK	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUMA	Unmodified	1992300	2673900	2518900	83044	65490	74984	0	0	0
ELFALHPSPDEEEPIER	DOCK7; DOCK7; DC	Q96N67; A0A0C4	DOCK7	HUM	Unmodified	484480	512450	326260	0	0	0	0	0	0
ELFEER	PNN	Q9H307	PINN	HUMA	Unmodified	919100	1472000	1017600	0	101500	0	0	0	0
ELFGPELFR	RFC4; RFC4; RFC4;	P35249; C9J8M3;	RFC4	HUMA	Unmodified	1533900	3569500	4144000	0	0	0	0	0	0
ELFQEMNIELVPPYMIASK	ACTL6A	O96019	ACL6A	HUM	2 Oxidation (M)	0	0	2595500	0	0	0	0	0	0
ELFQTPGHTEEAVAAGK	MKI67	P46013	KI67	HUMA	Unmodified	1364700	1309100	2442200	0	0	0	0	0	0
ELFQTPGHTEELVAAGK	MKI67	P46013	KI67	HUMA	Unmodified	499770	657410	653230	0	0	0	0	0	0
ELFSNLQEFAGPSGK	METTL7A; METTL7	Q9H8H3; F8VQX	MET7A	HUM	Unmodified	440200	681450	413140	0	0	0	0	0	0
ELFSPLHALNFGIGGDTTR	PAFAH1B2	P68402	PA1B2	HUM	Deamidation (N)	2260100	444580	625120	0	0	0	0	0	0
ELFSPLHALNFGIGGDTTR	PAFAH1B2	P68402	PA1B2	HUM	Unmodified	3071800	3653500	3200300	0	0	0	0	0	0
ELGDHVTNLRK	FTH1; FTH1; FTH1	P02794; G3V192;	FRIH	HUMA	Unmodified	917670	759190	653670	90844	103250	102090	0	0	0
ELGELIPLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	16089000	19904000	14618000	206760	336350	178230	0	11129	0
ELGFPYMTPVQSATIPLFMR	DDX55; DDX55; DD	Q8NHQ9; F5H5U	DDX55	HUM	2 Oxidation (M)	738960	500050	525580	0	0	0	0	0	0
ELGGLEGDPSPEEDEGIQK	CNPY3	Q9BT09	CNPY3	HUM	Unmodified	2176100	2683200	3061800	0	78659	127170	0	0	0
ELGGLEGDPSPEEDEGIQKASPLTHSPPDEL	CNPY3	Q9BT09	CNPY3	HUM	Unmodified	7195800	0	4635000	0	0	0	0	0	0
ELGGLGMLSMGHVLIPQSDLR	PRPF8; PRPF8	Q6P2Q9; I3L3Z8	PRP8	HUMA	2 Oxidation (M)	7186400	7263000	7947800	0	0	0	0	0	0
ELGGPSGFMSDLLNK	N/A	N/A	N/A		Oxidation (M)	0	0	0	0	0	0	72678000	0	39369000
ELGHGALAEK	PNPT1	Q8TCS8	PNPT1	HUM	Unmodified	0	0	1057100	0	41167	48036	0	0	0
ELGIIPTIIRDEELK	NPEPL1; NPEPL1	Q8NDH3; H0YEP	PEPL1	HUM	Unmodified	815760	637300	466030	0	0	0	0	0	0
ELGLDEGVDSLKAAIQSR	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	2881900	1733800	2536400	0	0	0	0	0	0
ELGLPEELVSR	GMPS	P49915	GUAA	HUM	Unmodified	8670200	7277400	7158800	0	0	68745	0	0	0
ELGLPEELVSRHPFPGPGLAIR	GMPS	P49915	GUAA	HUM	Unmodified	6622400	6172300	6710100	0	0	0	0	0	0
ELGMEERPYSSR	ADPRS	Q9NX46	ADPRS	HUM	Oxidation (M)	2026600	3079800	2297300	74372	46868	95965	0	0	0
ELGNIIQK	METAP1; METAP1	P53582; H0Y955	MAP11	HUM	Unmodified	646300	575020	499790	0	0	0	0	0	0
ELGSLPQEAFEKYQTLSLK	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	1269700	1341300	1303300	0	0	0	0	0	0
ELGSSVALYSR	TRAP1; TRAP1; TRA	Q12931; I3L0K7;	TRAP1	HUM	Unmodified	3780300	3622500	3026600	127330	93652	141640	0	0	0
ELGTVMR	CALM2; CALM3; CA	P0DP24; P0DP25;	CALM2	HUM	Oxidation (M)	417630000	500680000	475830000	13279000	2259400	13210000	0	83476	70323
ELGVGIALR	FABP5	Q01469	FABP5	HUM	Unmodified	8985400	6330700	7642700	144280	63486	61229	0	0	0
ELGYSLEQR	HPF1; N/A	Q9NWY4; A8MV	HPF1	HUMA	Unmodified	1170000	704600	740050	0	0	0	0	0	0
ELHINLIPNK	HSP90AA2P; HSP90	Q14568; P07900;	HS902	HUM	Unmodified	348890	1035900	820630	0	0	0	0	0	0
ELHINLIPNKQDR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Unmodified	557030	911000	570960	0	0	0	0	0	0
ELHINLIPNKQDR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Deamidation (N)	2952800	2613900	2693900	27095	38839	0	0	0	0
ELHLDNNKLAR	BGN	P21810	PGS1	HUMA	Deamidation (N)	539570	0	670030	35389	43334	87580	30975	0	27575
ELHSEFSEVMNEIWASDQIR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Oxidation (M);Dea	3924200	1977400	2707900	0	0	0	0	0	0
ELHSEFSEVMNEIWASDQIR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
ELIDTILVK	BIRC2; BIRC3; BIRC	Q13490; Q13489;	BIRC2	HUM	Unmodified	167420	148840	230120	0	0	0	0	0	0
ELIEIISGAAALD	ATP5F1C	P36542	ATPG	HUMA	Unmodified	1091100	0	0	0	0	13673	11639	0	14768
ELIFEETAR	MAPK1	P28482	MK01	HUM	Unmodified	1559400	0	1675900	0	0	0	0	0	0
ELIFVGREECELMLQSR	CEP170B; CEP170B	Q9Y4F5; J3KQR7	C170B	HUM	Methyl (KR)	0	1296800	0	0	0	0	0	0	0
ELIKVLEEANQAINPK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	4690400	5530400	6979600	0	0	0	0	0	0
ELIKVLEEANQAINPK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Deamidation (N)	515390	755700	897060	0	0	0	0	0	0
ELIPDTSR	NCBP3	Q53F19	NCBP3	HUM	Unmodified	0	488590	467270	0	8147.7	0	0	0	0
ELIPNIPFQMLLR	PC	P11498	PYC	HUMAN	Oxidation (M)	0	133150	163070	0	0	0	0	0	0
ELIPTEEALR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	5960000	6376600	5349200	222190	328160	238040	0	0	0
ELIQTSALNFLTPLR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1	HUM	Unmodified	387490	256630	454490	0	0	0	0	0	0
ELISDNQYR	MCM3	P25205	MCM3	HUM	Unmodified	3931600	3050700	4226500	0	0	0	0	0	0
ELISDNQYR	MCM3	P25205	MCM3	HUM	Deamidation (N)	0	0	579340	0	0	0	0	0	0
ELISNASDALDK	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Unmodified	1543500	1504000	1785100	0	0	0	0	0	0
ELISNASDALDK	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Deamidation (N)	5571700	5690000	623650	19476	0	19197	0	0	0
ELISNASDALDKIR	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Unmodified	8794800	7498000	7734200	0	0	0	0	0	0
ELISNASDALDKIR	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Deamidation (N)	13406000	11443000	9592100	0	16922	0	0	0	0
ELISNASDALDKIR	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Methyl (KR);Deam	2003200	1735900	2671300	0	0	0	0	0	0
ELISNASDALDKIR	HSP90AB4P; HSP90I	Q58FF6; P14625;	H90B4	HUM	Methyl (KR)	0	0	987940	0	0	0	0	0	0
ELISNASDALDKIRYESLTDPSK	HSP90AB4P; HSP90	Q58FF6; P08238;	H90B4	HUM	Unmodified	734880	659740	718970	0	0	0	0	0	0
ELISNSSDALDK	HSP90AA2P; HSP90	Q14568; P07900;	HS902	HUM	Unmodified	1847000	2030800	2917800	0	0	0	0	0	0
ELISNSSDALDK	HSP90AA2P; HSP90	Q14568; P07900;	HS902	HUM	Deamidation (N)	5903900	5483200	5846800	0	0	0	0	0	0
ELISNSSDALDKIR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Unmodified	4583200	2900200	3176400	0	0	0	0	0	0
ELISNSSDALDKIR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Deamidation (N)	16899000	15034000	14896000	20303	34365	32784	0	0	0
ELISNSSDALDKIR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Methyl (KR);Deam	1855200	1126700	1103300	0	0	0	0	0	0
ELISNSSDALDKIRYESLTDPSK	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Deamidation (N)	290770	597700	494580	0	0	0	0	0	0
ELKENGELLPILR	GLRX3	O76003	GLRX3	HUM	Deamidation (N)	2090600	2873700	2320100	0	0	0	0	0	0
ELKENGELLPILRGEN	GLRX3	O76003	GLRX3	HUM	Deamidation (N)	1046300	768490	1010300	0	0	0	0	0	0
ELKEQLAELQSGFVK	GOLGA2; GOLGA2;	Q08379; A0A6Q8	GOGA2	HUM	Unmodified	847080	605730	633230	0	0	0	0	0	0
ELKIDIIPNPQER	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	Unmodified	9424900	6893100	7363900	288300	290460	286820	186500	42456	0
ELKPMASGASSA	SLC44A1	Q8WWI5	CTL1	HUMA	Oxidation (M)	602230	703260	578300	428650	484940	453510	0	0	0
ELKTDNLPNQAR	PTBP3; PTBP3	O95758; X6R242	PTBP3	HUM	Unmodified	342200	637190	433760	0	0	0	0	0	0
ELLASAPTGSGK	DDX52	Q9Y2R4	DDX52	HUM	Unmodified	941180	889660	817290	0	0	0	0	0	0
ELLELASR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Unmodified	3689900	4386900	6072500	260160	127410	163570	0	0	0
ELLEPLFK	ERLEC1	Q96DZ1	ERLEC	HUM	Unmodified	548410	974710	1094500	20345	18199	17676	0	0	0
ELLFHPALFEVPSLK	NRBP1; NRBP1	Q9UHY1; F8W6G	NRBP	HUMA	Unmodified	1105100	949570	955750	0	0	0	0	0	0
ELLFLSNANPSLLER	DAP3; DAP3; DAP3;	P51398; V9GYW1	RT29	HUMA	Unmodified	326020	387840	345440	0	0	0	0	0	0
ELLGQGLLLR	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM	Unmodified	2079800	1513200	2046500	27286	17617	19640	0	12112	12305
ELLIFNK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1	HUM	Unmodified	2815600	2230100	2902800	0	0	0	0	0	0
ELLIFNKQQVPSGESAILDR	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1	HUM	Deamidation (N)	502150	397270	464510	0	0	0	0	0	0
ELLIFNKQQVPSGESAILDR	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
ELLIIGGVAAR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUMA	Unmodified	573940	362060	395310	0	6374	0	0	0	0
ELLLPQDAGGPTSLGGGAGGPLLAER	ZBTB10	Q96DT7	ZBT10	HUM	Unmodified	0	749920	0	0	0	0	0	0	0
ELLLQPVTISR	ARPC4; ARPC4-TTL	P59998; A0A0A6	ARPC4	HUM	Unmodified	2729500	2376300	2279500	25846	0	59192	0	0	0
ELLLTGPGLEER	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	3443500	2827300	2789200	105390	109090	163270	0	0	0
ELLNPVVEFVSHPSTTCR	PRKDC	P78527	PRKDC	HUM	Unmodified	1240300	1138200	1206400	0	0	0	0	0	0
ELLQQMER	LANCL1; LANCL1; I	O43813; E9PHS0;	LANC1	HUM	Oxidation (M)	1726700	1254700	1644700	0	0	0	0	0	0
ELLQSFDSALQSVK	RANBP2	P49792	RBP2	HUMA	Unmodified	455960	613340	0	0	0	0	0	0	0
ELLREETGAALKPR	COL18A1	P39060	COIA1	HUM	Unmodified	1893100	1566900	1984500	404080	345170	404560	92536	63851	108140
ELLREPAGLSLVLK	CNKSR1; CNKSR1; (	Q969H4; B4DXN4	CNKR1	HUM	Unmodified	353320	226250	367400	0	0	0	0	0	0
ELLTEFGYK	TUFM	P49411	EFTU	HUMA	Unmodified	1930200	1682200	1307300	0	0	0	0	0	0
ELLTSFGPLK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Unmodified	1193700	1202800	1250700	0	0	0	0	0	0
ELLTSFGPLKAFNLVK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Unmodified	76140	43559	71551	0	0	0	0	0	0
ELLTTMGDR	MYL12A; MYL12B;	P19105; O14950;	ML12A	HUM	Oxidation (M)	4260500	3683300	1765200	0	73441	58996	0	0	0
ELLTTMGDRFTDEEVDELYR	MYL12A; MYL12B;	P19105; O14950;	ML12A	HUM	Oxidation (M)	10683000	9397100	8053000	0	0	0	0	0	0
ELLTTMGDRFTDEEVDELYREAPIDKK	MYL12A; MYL12B;	P19105; O14950;	ML12A	HUM	Oxidation (M)	1476000	1359600	1509100	0	0	0	0	0	0
ELLVLPIYANLPSDMQAR	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16	HUM	Oxidation (M)	253980	189880	381930	0	0	0	0	0	0
ELMDRALELEAR	TNFAIP2; TNFAIP2	Q03169; H0YLC0	TNAP2	HUM	Oxidation (M)	0	0	18949	0	0	0	0	0	0
ELMEEKKEEITGTLR	TLN1	Q9Y490	TLN1	HUMA	Oxidation (M)	0	894540	479030	0	0	0	0	0	0
ELMETMHR	VPS28; VPS28	Q9UK41; E9PM9	VPS28	HUM	2 Oxidation (M)	231480	263970	277560	0	0	0	0	0	0
ELMQLEK	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2	HUM	Oxidation (M)	0	562580	0	0	17969	0	0	0	0
ELNEDKLEK	NOP56; NOP56; NOI	O00567; Q5JXT2;	NOP56	HUM	Unmodified	848030	363190	619040	0	0	0	0	0	0
ELNEKLMEER	STYXL2	Q5VZP5	STYL2	HUM	Oxidation (M)	0	1215900	1166100	0	0	0	0	0	0
ELNELVSAIEEHFFQPQK	PGM2	Q96G03	PGM2	HUM	Unmodified	51028	0	0	0	0	0	0	0	0
ELNITAAK	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7	HUMAN	Unmodified	7347400	6118300	7620500	97352	105530	108560	0	0	0
ELNITAAKEIEVGGGR	RPS7; RPS7	P62081; B5MCP9	RS7	HUMAN	Unmodified	0	480840	0	0	0	0	0	0	0
ELNLAISR	POLD1; POLD1; POI	P28340; A0A2R8	DPOD1	HUM	Unmodified	2792300	2429700	2602600	0	40187	0	0	0	0
ELNMGQR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Oxidation (M);Dea	668520	667350	868040	0	23693	30311	0	0	0
ELNMGQR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Oxidation (M)	956360	988420	803040	0	78616	0	0	0	0
ELNVMFIETSAK	RAB6A	P20340	RAB6A	HUM	Oxidation (M)	4262900	1849400	1848100	0	0	0	0	0	0
ELNYFAK	PGK1	P00558	PGK1	HUMA	Unmodified	17028000	16895000	14588000	268180	308130	311930	0	0	0
ELPAAVAPAGPASLAR	PGLS; PGLS; PGLS	O95336; M0R0U3	6PGL	HUMA	Unmodified	16196000	14014000	21884000	704990	649090	605940	0	32182	27090
ELPDLEDLMK	GLOD4; GLOD4	Q9HC38; F6TLX2	GLOD4	HUM	Oxidation (M)	1263200	1031400	970340	0	0	0	0	0	0
ELPDLEDLMKR	GLOD4; GLOD4	Q9HC38; F6TLX2	GLOD4	HUM	Oxidation (M)	768980	646540	676920	0	0	0	0	0	0
ELPELLQR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	3434500	3802200	3318900	0	54805	39595	0	0	0
ELPEQLQEHAIEDK	SAFB	Q15424	SAFB1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ELPESGIQLGTPR	EIF2B4; EIF2B4; EIF	Q9UI10; A0A087	EI2BD	HUM	Unmodified	1670400	1649100	2863500	141710	134730	124890	23880	0	18678

ELPEYYELIR	SMARCA4; SMARC;	P51532; P51531; I	SMCA4	HUM	Unmodified	1535000	2033200	2016800	0	11209	0	0	0	0
ELPGHTGYLSCCR	GNB2; GNB4; GNB2	P62879; Q9HAV0	GBB2	HUM	Unmodified	1658800	1570100	1262800	269130	242580	288680	0	0	0
ELPGQTLHWGPEATEAAGR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	1321300	1201000	1263900	0	0	0	14292	0	0
ELPLAADALTFAEVSKDPK	PKP3	Q9Y446	PKP3	HUM	Unmodified	1742000	848210	1266200	0	0	0	22037	0	0
ELPNIEER	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	4859400	4643200	3365000	902830	782560	801060	0	0	0
ELPPDQAEYCIAR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	3602800	2688200	4085200	963810	873080	874010	102630	129670	146700
ELPQFATGENLPR	API5; API5	Q9BZZ5; G3V1C	API5	HUM	Unmodified	8169200	7448100	5451100	0	58040	53096	0	0	0
ELPQVSFVK	GLRX3	O76003	GLRX3	HUM	Unmodified	5325200	5253500	4869200	108200	127040	125900	0	0	7389.6
ELPRPVLEGQQSER	UTP14A; UTP14C	Q9BVJ6; Q5TAP6	UTP14A	HUM	Unmodified	457550	0	458260	32557	0	18269	0	0	0
ELPSLEQK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	0	1254600	514940	140960	93273	129020	0	0	0
ELPTAFDYVEFTR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	13654000	13484000	13286000	28495	124120	20774	60179	27525	35730
ELPVNAQNYVR	ADSS2	P30520	PURA2	HUM	Unmodified	0	873930	1087700	0	0	0	0	0	0
ELQAAGKSPEDLER	GPI; GPI	P06744; A0A2U3	G6PI	HUM	Unmodified	3454100	4361200	3347000	145560	243730	177530	0	0	0
ELQAAGKSPEDLER	GPI; GPI	P06744; A0A2U3	G6PI	HUM	Methyl (KR)	1229400	1178800	0	33597	26096	26299	0	0	0
ELQALGFQPGPITDTTR	LEMD2; LEMD2	Q8NC56; D6RBV	LEMD2	HUM	Unmodified	780890	669850	797530	21148	0	25713	0	0	0
ELQALGFQPGPITDTTRDVYR	LEMD2; LEMD2	Q8NC56; D6RBV	LEMD2	HUM	Unmodified	0	3658400	0	0	0	0	0	0	0
ELQAQIAELQEDFESEK	MYH10	P35580	MYH10	HUM	Unmodified	2449600	1630500	2318900	0	0	0	0	0	0
ELQDAFSR	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ELQDLALQGAK	CHGA; CHGA	P10645; G5E968	CMGA	HUM	Unmodified	755560	796090	878720	0	0	0	0	0	0
ELQELSSSIKDLVLK	UFL1	O94874	UFL1	HUM	Unmodified	1022900	528590	1107100	0	0	0	0	0	0
ELQELVQYPVEHPDK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	3838500	3334100	3576500	30907	37129	35033	0	0	31200
ELQELVQYPVEHPDKFLK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	19502000	16648000	19292000	0	0	0	0	0	0
ELQELVQYPVEHPDKFLK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Methyl (KR)	1004500	842740	860730	0	0	0	0	0	0
ELQEQMSR	BZW1; BZW1; BZW	Q7L1Q6; C9IZ80;	BZW1	HUM	Oxidation (M)	722510	858430	810870	0	126370	0	0	0	0
ELQHAALGGTATR	SCAMP3	O14828	SCAM3	HUM	Unmodified	529210	372510	749250	38622	0	29310	0	0	0
ELQHDVQK	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	222180	169630	261890	0	0	0	0	0	0
ELQLIPDQLR	NUP88; NUP88	Q99567; J3KMX1	NUP88	HUM	Unmodified	0	464930	0	0	0	0	0	0	0
ELQNAPDAIPESGVEPPALDTAWVEATR	GPS1; GPS1; GPS1; (	Q13098; J3KRJ4;	CSN1	HUM	Unmodified	0	0	486130	0	0	0	0	0	0
ELQNEVEK	PABPN1; PABPN1; I	Q86U42; B4DEH8	PABP2	HUM	Unmodified	716590	0	682990	0	0	0	0	0	0
ELQNTVANLHVR	SCAMP2; SCAMP2;	O15127; H3BPL9;	SCAM2	HUM	Unmodified	0	1377700	1558900	60924	0	0	0	0	0
ELQPPAAGDPQAK	TBC1D9B; TBC1D9I	Q66K14; G3V133	TBC9B	HUM	Unmodified	790980	706540	693540	0	0	126370	0	0	0
ELQPQQQPR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	1944800	1870700	1958700	479760	445190	528140	0	0	0
ELQPSEEVTWK	NDUFB1	O75438	NDUB1	HUM	Unmodified	3778100	3173200	3358700	138580	143140	136150	0	0	0
ELQQAVLHMEQR	NUCB1	Q02818	NUCB1	HUM	Oxidation (M)	6048700	6003000	6345800	342030	431420	196330	24410	17563	28124
ELQREPLTPEEVQSVR	CIAPIN1; CIAPIN1; (	Q6FI81; H3BT65;	CPIN1	HUM	Unmodified	0	3047600	0	0	0	0	0	0	0
ELQSAVPRDVEDVPITVE	BYSL	Q13895	BYST	HUM	Unmodified	1307000	874260	972990	15406	14421	0	0	0	0
ELQSLLVEER	ARL2	P36404	ARL2	HUM	Unmodified	833460	665800	588310	0	0	0	0	0	0
ELQSMADQEQVSPAAIK	PYCR1; PYCR1	P32322; E2QRB3	P5CR1	HUM	Oxidation (M)	1068100	0	1162100	0	0	0	0	0	0
ELQSMADQEQVSPAAIKK	PYCR1; PYCR1	P32322; E2QRB3	P5CR1	HUM	Oxidation (M)	1574000	2132800	1248900	56602	146300	78373	0	0	0
ELQSQIQEAR	DPM3	Q9P2X0	DPM3	HUM	Unmodified	1298200	1322900	1312700	88734	81192	108680	0	0	0
ELQSTFK	EFHD2	Q96C19	EFHD2	HUM	Unmodified	6729900	8654700	7919900	101240	134070	100120	0	0	0
ELQSVKPQEAPK	GPKOW	Q92917	GPKOW	HUM	Unmodified	786090	0	932770	0	0	32577	0	0	0
ELQTAQAQLSEWR	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14	HUM	Unmodified	571400	562520	728040	0	0	0	0	0	0
ELQTLHNLR	KIF5B; KIF5C; KIF5	P33176; O60282;	KINH	HUM	Unmodified	484770	906590	1725100	26079	0	0	0	0	0
ELQTVLSTYLRPLQTSEK	ARHGEF7; ARHGEF	Q14155; B1ALK7	ARHG7	HUM	Unmodified	290120	287180	255200	0	0	0	0	0	0
ELRDQIVSVQEEK	SHTN1	A0MZ66	SHOT1	HUM	Unmodified	1481700	1331800	928420	0	0	0	0	0	0
ELRENTQTTIK	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Unmodified	0	548790	1067100	53250	36348	24353	0	0	0
ELREVIELPLTNPELFQR	PSMC6; PSMC6; PS	P62333; A0A087	PRS10	HUM	Unmodified	2000800	573600	198300	0	0	0	0	0	0
ELSANTAAFAK	SNX2	O60749	SNX2	HUM	Unmodified	348870	0	351840	0	14962	24202	0	0	0
ELSAVTFPDIIR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM	Unmodified	1433200	455580	9993200	14019	14564	0	0	0	0
ELSDFISYLQR	PDIA3	P30101	PDIA3	HUM	Unmodified	16182000	17299000	15622000	29717	0	22629	136410	48610	63890
ELSDLESAR	CAD; CAD	P27708; F8VPD4	PYR1	HUM	Unmodified	1908300	2034500	3592400	46312	48185	52078	0	0	0
ELSEALGQIFDSQR	LGALS3BP; LGALS3	Q08380; K7EJY8;	LG3BP	HUM	Unmodified	1399700	1203700	1023000	0	0	0	0	0	0
ELSEALTR	GARS1; GARS1; GAI	P41250; A0A6Q8	GARS	HUM	Unmodified	1493200	1480000	1640100	0	0	0	0	0	0
ELSEQIQR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Unmodified	9403900	14140000	11141000	730500	991300	890630	0	0	0
ELSLDDPEVEQVSGR	AARSD1; PTGES3L-	Q9BTE6; B3KSP5	AASD1	HUM	Unmodified	360390	394310	502220	23650	33076	0	0	0	0
ELSPDIAHLASLK	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	829020	952460	874950	33852	15534	21658	0	0	0
ELSPEGPGK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	653570	720180	0	0	0	0	0	0	0
ELSPLFLR	UTP20	O75691	UTP20	HUM	Unmodified	0	710200	686580	32563	36056	28793	0	0	0
ELSSTEAQLHDAQELLQEETR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Unmodified	3752500	2220600	0	0	0	0	0	0	0
ELTAPDENIPAK	TOP1; TOP1	P11387; A0A7P01	TOP1	HUM	Unmodified	1348400	2089700	1825300	0	0	0	0	0	0
ELTAQIAAGR	ABCF3	Q9NUQ8	ABCF3	HUM	Unmodified	0	1397600	1233900	113530	107240	124280	14939	30317	22442
ELTDEEAER	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC	HUM	Unmodified	3926500	6258800	4800800	68697	0	78729	0	0	0
ELTEEKESAFEFLSSA	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM	Unmodified	3712900	3596800	4575600	16358	0	0	19553	0	0
ELTEEKESAFEFLSSA	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM	Methyl (KR)	585180	517150	693120	0	0	0	0	0	0
ELTGEDVLVR	PSMD5	Q16401	PSMD5	HUM	Unmodified	1814600	2055300	2230600	39604	0	0	0	0	0
ELTGLKALYETELADAR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Unmodified	1463700	756260	1603900	0	0	0	0	0	0
ELTGLKALYETELADAR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Methyl (KR)	931030	0	1047500	0	0	0	0	0	0
ELTGLKALYETELADARR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Unmodified	2209000	775490	1182500	0	0	0	0	0	0
ELTIGSKLQDAEIAR	S100A6; S100A6	P06703; R4GN98	S10A6	HUM	Methyl (KR)	587820	558690	582550	0	0	0	0	0	0
ELTIGSKLQDAEIAR	S100A6; S100A6	P06703; R4GN98	S10A6	HUM	Unmodified	476270	497770	302320	0	0	0	0	0	0
ELTPQVVSAAR	VCL	P18206	VINC	HUM	Unmodified	16849000	20619000	16295000	1249600	1365700	1211300	325540	308410	281120
ELVAVLREPE	PMF1	Q6P1K2	PMF1	HUM	Unmodified	2166300	1954900	1642600	105980	81335	100410	11815	0	12597
ELVDKATNVVMNYSEIESK	CLINT1	Q14677	EPN4	HUM	Oxidation (M)	1000100	928670	992860	0	0	0	0	0	0
ELVEGEMK	SAFB	Q15424	SAFB1	HUM	Oxidation (M)	0	2222000	2392400	59587	0	66015	0	0	0
ELVEPVSR	ACADVL; ACADVL;	P49748; K7EJW8;	ACADV	HUM	Unmodified	5277900	4953500	4734500	57329	83407	65508	0	0	0
ELVFKEDGQEYAQVIK	EIF1AY; EIF1AX; EI	O14602; P47813;	IF1AY	HUM	Unmodified	9728700	9922200	7801900	0	0	0	0	12234	0
ELVIPLIQNGHR	GPKOW	Q92917	GPKOW	HUM	Deamidation (N)	0	494010	387080	0	0	0	0	0	0
ELVKEPAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	4692100	3988200	3872600	611660	489820	535530	0	0	33906
ELVLDNCK	ANP32B	Q92688	AN32B	HUM	Unmodified	639400	546690	400780	0	0	0	0	0	0
ELVLDNSR	ANP32A; ANP32A; A	P39687; H7BZ09;	AN32A	HUM	Unmodified	1089300	1197800	2461200	0	108200	0	0	0	0
ELVLDNSR	ANP32A; ANP32A; A	P39687; H7BZ09;	AN32A	HUM	Deamidation (N)	4403200	4214400	4191700	152530	141000	154670	0	0	0
ELVPESQAYMDLLAFER	SMARCD2; SMARCI	Q92925; Q6STE5;	SMRD2	HUM	Oxidation (M)	1374700	909530	951830	0	0	0	0	0	0
ELVPSSDPIVFVVGAFAHGK	EMG1; EMG1; EMG	Q92979; V9GYP5	NEP1	HUM	Unmodified	148010	134810	158730	0	0	0	0	0	0
ELVQPFSSLFPK	DPP9; DPP9	Q86TI2; M0R2A8	DPP9	HUM	Unmodified	348640	296430	243430	0	0	0	0	0	0
ELVQTEIQER	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	624010	642410	684260	0	0	0	0	0	0
ELWFSDDPNVTK	AIFM1; AIFM1; AIFM	O95831; A0A7I2R	AIFM1	HUM	Unmodified	4323500	3470100	5056200	112730	86441	80501	0	0	0
ELWTILLGR	NUP188; N/A	Q5SRE5; H7C4K7	NU188	HUM	Unmodified	354980	349550	334010	0	0	0	0	0	0
ELYDKGGEQAIK	DNAJA1	P31689	DNJA1	HUM	Unmodified	518400	405100	459250	0	0	0	0	0	0
ELYDRYGEQGLR	DNAJA2	O60884	DNJA2	HUM	Unmodified	3122300	2886400	2846600	0	72416	59529	0	0	0
ELYERPPHLFAIADAAYK	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D	HUM	Unmodified	1115400	1592400	877030	0	0	0	0	0	0
ELYIPSGESEVAGGASHSSGQR	SYNM; SYNM; SYNI	O15061; A0A075	SYNEM	HUM	Unmodified	0	0	0	0	0	0	127200	150090	144730
ELYLEDSPLELK	NUP210	Q8TEM1	PO210	HUM	Unmodified	7282700	3116800	3229900	0	20787	12636	0	0	0
ELYVMEISDNPGVHEPGEPEFK	CPD	O75976	CBPD	HUM	Oxidation (M)	1832900	1546800	1260700	25060	56823	0	0	0	0
EMAAMCLGLAHSLSR	NOP58; NOP58	Q9Y2X3; H7BZ72	NOP58	HUM	2 Oxidation (M)	2584800	2376700	2741100	0	0	0	0	0	0
EMAEIRDQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1	HUM	2 Oxidation (M);De	1414500	1283200	725990	0	0	0	0	0	0
EMAEIRDQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1	HUM	2 Oxidation (M)	1775900	1308900	1365900	0	0	0	0	0	0
EMAGDNKLLGQFTLKGIPPAPR	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75	HUM	Oxidation (M)	0	331390	334340	0	0	0	0	0	0
EMAGDNKLLGQFTLKGIPPAPR	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75	HUM	Oxidation (M);Deai	388010	0	434480	0	0	0	0	0	0
EMAIPVLEAR	ALDH18A1	P54886	P5CS	HUM	Oxidation (M)	777400	569350	571190	17822	23344	0	0	0	0
EMAKTHHQKVEKK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1	HUM	4 Methyl (KR)	0	0	0	0	0	0	0	0	0
EMAVVLLANLAQGDSLAAR	ARID1A; ARID1A; A	O14497; H0Y488;	ARI1A	HUM	Oxidation (M)	1270000	272080	372730	0	0	0	0	0	0
EMDPVTQLYTMTSTLEYK	ALCAM; ALCAM; A	Q13740; F5GXJ9;	CD166	HUM	2 Oxidation (M)	0	1575400	581380	0	0	0	0	0	0
EMEAELEDER	MYH9	P35579	MYH9	HUM	Oxidation (M)	2544200	2860900	2637000	193210	235970	234130	0	0	0
EMEAELEDERK	MYH9	P35579	MYH9	HUM	Oxidation (M)	3264700	2956300	3760500	496270	348940	672300	0	0	0
EMEENFAVEAANYQDTIGR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Oxidation (M)	0	0	0	0	54502	0	0	0	0
EMEQQMQR	CPT1A	P50416	CPT1A	HUM	2 Oxidation (M)	0	236740	161920	0	0	0	0	0	0
EMFEDTVEER	RBBP7; RBBP7	Q16576; E9PC52	RBBP7	HUM	Oxidation (M)	3798200	3626200	4075400	0	0	0	0	0	0
EMFNPMYALFR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUN	2 Oxidation (M)	1017300	675960	691120	0	0	0	0	0	0
EMGEAFAADIPR	AP2A1	O95782	AP2A1	HUM	Oxidation (M)	2261000	2171900	2523500	200350	152170	217710	0	0	0
EMGTPLADTPTRPVTR	DPYSL5	Q9BPU6	DPYL5	HUM	Oxidation (M)	9570200	8637700	11330000	122500	0	103100	0	0	0
EMIDIYSTR	PSMD3	O43242	PSMD3	HUM	Oxidation (M)	1911200	1533800	1523900	107630	43065	129430	0	0	0
EMIDIYSTREPQLAFHQR	PSMD3	O43242	PSMD3	HUM	Oxidation (M)	2420900	2131400	2365200	0	88094	0	0	0	0
EMIGRIPCGR	DECR1	Q16698	DECR	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
EMKPVIFLDVFLPR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	160360	0	0	0	0	0	0	0	0
EMLKELLQNADDAK	SACS	Q9NZJ4	SACS	HUM	Oxidation (M);Meti	0	598660	0	0	0	0	0	0	0
EMLQQSK	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B	HUM	Oxidation (M)	5007800	2945600	7050700	30745	52765	0	0	0	0
EMNDAAMFYTNR	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUM	2 Oxidation (M)	2131800	2070600	1805800	17643	98564	13807	0	0	0
EMNDAAMFYTNR	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUM	2 Oxidation (M);De	1573800	1775700	1766300	0	0	0	0	0	0
EMNPALGIDCLHK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUM	Oxidation (M)	809470	727660	863640	0	8878.2	0	20779	17941	0
EMPQDLR	SGTA; SGTA; SGTA	O43765; K7EMD6	SGTA	HUM	Oxidation (M)	2047200	1639000	1858300	0	40505	30771	0	0	0
EMQDVDLAEVKPLVEK	NDRG1; NDRG1; NI	Q92597; A0A6Q8	NDRG1	HUM	Oxidation (M)	4053300	2682400	4656900	88619	0	0	0	0	0
EMQPTHPIR	YWHAB; YWHAZ; Y	P31946; P63104; I	1433B	HUM	Oxidation (M)	13477000	12812000	0	0	0	0	0	0	0
EMSGDLEEGMLAVVK	ANXA11; ANXA11	P50995; H0Y6E1	ANX11	HUM	2 Oxidation (M)	1028600	1069000	1092300	63593	0	43527	0	0	0
EMSGSNETSSPVSEKPSASR	SRCIN1; SRCIN1	Q9C0H9; A0A087	SRCN1	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
EMSGSPASGIPVK	C4A; C4B; C4B_2; C	P0C0L4; P0C0L5;	CO4A	HUM	Oxidation (M)	0	560170	1409100	0	0	0	21829	0	0
EMTADVIELK	IARS2	Q9NSE4	SYIM	HUM	Oxidation (M)	3487500	3526300	3806600	147790	144610	183260	0	0	0
EMTADVIELKGK	IARS2	Q9NSE4	SYIM	HUM	Oxidation (M)	1089800	703960	1081800	0	42795	0	0	0	0
EMTDSSHIPVSDMVMYGYR	PNKP; PNKP; PNKP;	Q96T60; M0R097	PNKP	HUM	3 Oxidation (M)	449200	374610	386430	0	0	0	0	0	0
EMTGIWR	CLIC6; CLIC4	Q96NY7; Q9Y696	CLIC6	HUM	Oxidation (M)	427600	663740	501870	0	0	0	0	0	0
EMTLDEWK	SERBP1; HABP4	Q8NC51; Q5JVS0	PAIRB	HUM	Oxidation (M)	1988000	2371000	2280000	0	70989	63638	0	0	0
EMVATQQEMMDAQLR	NDUFB7	P17568	NDUB7	HUM	3 Oxidation (M)	1442000	871790	935010	0	0	0	0	0	0

EMVECFNK	ECH1; ECH1; N/A; E	Q13011; M0R280	ECH1	HUMA	Oxidation (M)	567920	551800	548330	0	13411	21753	0	0	0
EMVELPLR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Oxidation (M)	699670	1204200	1253500	0	0	0	0	0	0
EMVHADVELMR	GMDS	O60547	GMDS	HUM	2 Oxidation (M)	1785000	2115800	1643200	0	0	0	0	0	0
EMVLELIRDQGGFR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M)	3193000	3438300	3238600	0	0	0	0	0	0
EMVPEFVVPDLTGFK	MRPL41	Q8IXM3	RM41	HUMA	Oxidation (M)	180350	238380	272580	0	0	0	0	0	0
ENAGEDPGLAR	DCD	P81605	DCD	HUMA	Unmodified	2066300	1941400	1467900	866180	897080	990910	0	0	0
ENALLELSK	CNOT9; CNOT9	Q92600; F8WBZ6	CNOT9	HUM	Unmodified	1178000	0	837940	0	29071	0	0	0	0
ENDFDRLVLQYAPSA	COPE; COPE	O14579; M0QXB4	COPE	HUMA	Unmodified	0	221470	354810	0	0	0	0	0	0
ENDKVIVKTLDDRMLTLNNDQVFPMNPPK	MYH13	Q9UKX3	MYH13	HUM	2 Methyl (KR);2 D	0	1349900	0	0	0	0	0	0	0
ENELRRSMEEMKK	CENPF	P49454	CENPF	HUM	2 Oxidation (M);2 I	1311400	963570	1277000	0	0	0	0	0	0
ENEQSLLEYLEK	MSH6; MSH6; MSH6	P52701; A0A494C	MSH6	HUMA	Unmodified	3005400	0	0	0	0	0	0	0	0
ENEVLEAWK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	0	676520	770950	0	20902	0	0	0	8667.4
ENGFILNPNQKKK	BROX	F5GXQ0	F5GXQ0	HU	3 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
ENGRVTIEYYSQLK	ALDH9A1	P49189	AL9A1	HUM	Deamidation (N)	1256500	916930	793760	0	0	0	0	0	0
ENGVYTLNFHGRVTR	TULP2; TULP2	O00295; H0YBB5	TULP2	HUM	2 Methyl (KR);2 D	891920	2580900	2457300	0	0	0	18231	0	0
ENILEEFSK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	2519900	1802700	2063900	0	0	0	0	0	0
ENIQQVSQK	OXR1; OXR1	Q8N573; H0YC07	OXR1	HUMA	Unmodified	542330	318270	354780	155210	151800	180280	0	0	0
ENIVEAIIHSPELIR	IPO7; IPO7	O95373; E9PLB2	IPO7	HUMA	Unmodified	607410	231850	663490	0	0	0	0	0	0
ENIVIQCEAK	NRCAM; NRCAM; N	Q92823; C9J8B6;	NRCAM	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ENKSEKQNKPQK	EPRS1	P07814	SYEP	HUMA	2 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
ENKTAVVVGTITDDVR	RPL18; RPL18; RPL	Q07020; F8VUA6	RL18	HUMA	Deamidation (N)	496970	479950	433440	11310	0	0	0	0	0
ENLATVEGNFASIDER	DCTN2; DCTN2; DC	Q13561; A8K8J9;	DCTN2	HUM	Unmodified	0	0	597070	0	0	0	0	0	0
ENLEEEAIIMK	NDUFA13; NDUFA1	Q9P0J0; K7EJE1;	NDUAD	HUM	Oxidation (M)	1017500	1290800	0	0	0	0	12560	0	0
ENLLDFIK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	5852400	4426000	6104800	31704	25980	0	0	0	0
ENLTDLVVDTDTLGESTQPQR	MDC1	Q14676	MDC1	HUM	Unmodified	2943000	1355900	2501400	0	0	0	0	0	0
ENMELEEKEKAEKK	SMARCA5	O60264	SMCA5	HUM	Oxidation (M);3 M	0	0	0	0	0	0	0	0	0
ENMTLQPK	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B	HUM	Oxidation (M);Deai	879640	790790	935540	0	0	0	0	0	0
ENNAVYAFLGLTAPPGSK	SH3BGRL	O75368	SH3L1	HUM	Unmodified	1274500	833690	1041700	0	0	0	0	0	0
ENNAVYAFLGLTAPPGSK	SH3BGRL	O75368	SH3L1	HUM	Deamidation (N)	930560	638770	931390	0	0	0	0	0	0
ENPEQNLK	TP53BP1; TP53BP1	Q12888; A6NNK5	TP53B	HUM	Unmodified	712820	895160	751250	0	0	0	0	0	0
ENPIHIWDAFTGELR	WRAP53; WRAP53	Q9BUR4; E9PMG	TCAB1	HUM	Unmodified	568510	317490	413080	0	0	0	0	0	0
ENPLDSSVEFMQIWR	SCGN	O76038	SEGN	HUMA	Oxidation (M)	642040	551830	946490	0	0	0	0	0	0
ENPLLPEEEEQRAIAK	EIF4G2; EIF4G2; EIF	P78344; H0YD77	IF4G2	HUM	Unmodified	693890	876310	982870	0	0	0	0	0	0
ENPNLVMPPK	FLII; FLII; FLII	Q13045; J3KS54;	FLII	HUMAN	Oxidation (M);Met	0	0	0	0	0	0	0	0	0
ENPPMKPDFSQLQR	ASF1B	Q9NVP2	ASF1B	HUM	Oxidation (M)	731140	713940	662140	0	0	0	0	0	0
ENPRNFSDNQLQEGK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Deamidation (N)	1242200	0	0	0	0	0	0	0	0
ENPRNFSDNQLQEGK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	2 Deamidation (N)	414350	801100	907220	0	0	0	0	0	0
ENPRNFSDNQLQEGKNVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Methyl (KR);2 Dea	1328600	1328700	0	0	22867	24738	23800	18371	0
ENPSATLEDLEKPGVDEEPQHVLLR	UPF1	Q92900	RENT1	HUM	Unmodified	3381100	1934000	2594300	0	0	0	0	0	0
ENPSEEAQNLVEFTDEEGYGR	SF3A3	Q12874	SF3A3	HUM	Unmodified	1729600	1453100	1503200	0	0	0	0	0	0
ENPYYDSR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	6155400	6442200	6165400	377040	495460	512090	0	0	0
ENQKILTPLVSLDTPGK	GLOD4; GLOD4; GL	Q9HC38; I3L1I0;	GLOD4	HUM	Deamidation (N)	406630	365000	529260	0	0	0	0	0	0
ENRESLVVNYEDLAAR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Deamidation (N)	0	320660	0	0	0	0	0	0	0
ENTDSDNLLRR	AGK	E9PC15	E9PC15	HUM	2 Methyl (KR);Dea	960600	940660	989170	87417	0	0	0	0	0
ENVEYIER	ZRANB2	O95218	ZRAB2	HUM	Unmodified	648340	0	0	0	0	0	0	0	0
ENVFQEHQTLK	CTTN	Q14247	SRC8	HUMA	Unmodified	872620	884890	877360	68478	47671	0	0	0	0
ENVFQEHQTLKEKELETGPK	CTTN	Q14247	SRC8	HUMA	Unmodified	474130	490680	410740	0	0	36725	0	0	0
ENVLIGDGAGFK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	1759600	1380300	1823000	0	38139	0	0	0	0
ENVPENSRPATGYPLPPQIFNESQYR	SH3BGRL	O75368	SH3L1	HUM	Deamidation (N)	1590200	1727200	1219100	0	0	0	0	0	0
EPAAEIEALLGMDLVR	SCRN1; SCRN1; SCR	Q12765; B8ZZP4;	SCRN1	HUM	Oxidation (M)	687940	286820	831360	0	0	0	0	0	0
EPAAFWGPLAR	ACSS1; ACSS1	Q9NUB1; Q5TF4	ACS2L	HUM	Unmodified	1121200	877940	796970	49413	52703	43241	0	0	0
EPAAPVSIQR	LASP1; LASP1; LAS	Q14847; C9J9W2;	LASP1	HUM	Unmodified	1779500	1678500	1534000	117820	99763	87425	0	0	0
EPAEQPGDGER	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	0	2070300	820760	0	0	0	0	0	0
EPAFEDITLESER	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A	HUM	Unmodified	867290	975140	1529500	40615	39794	42458	0	0	0
EPAIHSEGQWVTLPAPLDTINVHLR	GAA	P10253	LYAG	HUM	Unmodified	1245200	720100	783870	0	0	0	0	0	0
EPAVLELEGK	CAP1	Q01518	CAP1	HUMA	Unmodified	1716200	565720	391500	48575	42637	48126	0	0	0
EPCGGQNTVPGVR	HAPLN1; HAPLN1	P10915; D6RBS1	HPLN1	HUM	Deamidation (N)	750880	761200	836060	0	0	0	0	0	0
EPCGGQNTVPGVR	HAPLN1; HAPLN1	P10915; D6RBS1	HPLN1	HUM	Unmodified	1411500	1360800	1204300	0	0	0	0	0	0
EPEKEIRPALELLEPIEQK	GDI2	P50395	GDIB	HUMA	Unmodified	1009000	471980	557790	0	0	0	0	0	0
EPELEDLTR	RANBP2	P49792	RBP2	HUMA	Unmodified	748740	808910	1825400	106480	138960	85358	0	0	0
EPELFQTVAEGLRQLYAQKLLPLEEHYR	EHD1; EHD1; EHD1	Q9H4M9; C9JIJ3;	EHD1	HUMA	2 Methyl (KR)	0	1130000	0	0	0	0	0	0	0
EPELGLEELLR	HSPBP1	Q9NZL4	HPBP1	HUM	Unmodified	967410	751550	636280	0	0	0	0	0	0
EPEPPGVVGGPGEK	GALNT7; GALNT7	Q86SF2; E9PBY3	GALT7	HUM	Unmodified	0	499070	746260	0	0	88479	0	0	0
EPFEIKVYEIDDVERLQR	KIF26A; KIF26B; KI	Q9ULI4; Q2KJY2;	KI26A	HUM	3 Methyl (KR)	0	0	249480	0	0	0	0	0	0
EPFFHGHDNYDQLVR	CSNK2A1; CSNK2A	P68400; A0A2R8	CSK21	HUM	Unmodified	728910	877840	405720	0	0	0	0	0	0
EPFTIAQGK	DEK; DEK; DEK; DE	P35659; A0A494C	DEK	HUMA	Unmodified	7545700	7388000	7117500	228680	181910	184620	0	0	0
EPGKFYSLPQSPQQFK	DARS2; DARS2; DAI	Q6PI48; A0A3B3	SYDM	HUM	Unmodified	675230	766730	1825100	0	0	0	0	0	0
EPGLGFSFEFTEQQKEFQATAR	ACADM; ACADM; A	P11310; A0A7P0	ACADM	HUM	Unmodified	358410	316180	414550	0	0	0	0	0	0
EPGRTLEPQELARIAGKVPGLQNEQK	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L	HUM	2 Methyl (KR)	1240900	1812700	0	0	0	0	0	0	0
EPILSSEPSPAVTPVTPTTLIAPR	SNX2; SNX2	O60749; D6RC15	SNX2	HUMA	Unmodified	0	1329600	2443000	0	0	0	0	0	0
EPLLTLVK	PSMD2	Q13200	PSMD2	HUM	Unmodified	387910	532610	502520	14460	11455	20547	0	0	0
EPLPPIQQHIWNMLNPPAEVTTK	XRCC5	P13010	XRCC5	HUM	Oxidation (M);Deai	1531700	1691800	2634000	0	0	0	0	0	0
EPLPPIQQHIWNMLNPPAEVTTK	XRCC5	P13010	XRCC5	HUM	Oxidation (M)	3366400	11009000	11269000	0	0	0	0	0	0
EPLPSLEAVYLITPSEK	STXBP1; STXBP1; S	P61764; A0A0D9	STXB1	HUM	Unmodified	689390	505960	697430	0	0	0	0	0	0
EPLPTLPLGR	HTRA2; HTRA2	O43464; A0A0C4	HTRA2	HUM	Unmodified	380390	0	524480	0	17506	0	0	0	0
EPLSLINVR	PGAM5	Q96HS1	PGAM5	HUM	Unmodified	3686500	3177500	3112200	46213	44748	42625	0	0	0
EPLTPEEVQSVR	CIAPIN1; CIAPIN1;	Q6FI81; H3BT65;	CPIN1	HUM	Unmodified	525770	613080	584430	0	0	0	0	0	0
EPLVATNLPGR	TMPO	P42166	LAP2A	HUM	Unmodified	4737900	4808300	4183400	43985	32724	38693	0	0	0
EPLVATNLPGRGQLQK	TMPO	P42166	LAP2A	HUM	Unmodified	2829900	1271000	3355400	29390	25796	51366	0	0	0
EPMKDDITGEPLIR	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2	HUM	Oxidation (M)	2445000	1356600	1428100	0	0	0	0	0	0
EPMQTGIK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA	HUM	Oxidation (M)	14339000	12550000	13618000	1145900	973440	1298800	0	0	0
EPMQTGIKAVDSLVPIGR	ATP5F1A; ATP5F1A	P25705; K7ERX7:	ATPA	HUM	Oxidation (M);Met	802110	759490	946460	0	0	0	0	0	0
EPPAASWAVQPHYQLPTAFR	PM20D2	Q8IYS1	P20D2	HUM	Unmodified	876130	0	0	0	0	0	0	0	0
EPPADVWTPPAR	TRIM25; TRIM25	Q14258; A0A3B3	TRI25	HUM	Unmodified	821790	632160	820820	56152	55404	0	0	0	0
EPPAPAQQLQPQPVAVQGPEPAR	TMEM165; TMEM16	Q9HC07; D6RBL(	TM165	HUM	Unmodified	1047400	771130	607600	0	29357	0	0	0	0
EPPLLLGVLHPNTK	APMAP; APMAP	Q9HDC9; H0Y51	APMAP	HUM	Unmodified	1339800	1257700	1035400	0	12216	7585.2	0	0	0
EPPLSLTIHLTSPVVR	ILF3; ILF3; ILF3; ILF	Q12906; K7EPG3	ILF3	HUMA	Unmodified	628440	170150	425120	0	0	0	17132	0	0
EPPYGADVLR	IARS2	Q9NSE4	SYIM	HUMA	Unmodified	1979600	1781800	4420900	17457	0	25647	0	0	0
EPQDTYHYLPFSLPHR	CLU; CLU; CLU	P10909; H0YLK8	CLUS	HUMA	Unmodified	624720	737880	838300	0	0	0	0	0	0
EPQGALERPPVDHGLAR	DHTKD1; DHTKD1	Q96HY7; C9JWN	DHTK1	HUM	Unmodified	1087600	928800	952470	0	0	0	0	0	0
EPQVYTLPPSR	IGHG2; IGHG3; IGH	P01859; P01860;	IGHG2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EPQVYTLPPSREEMTK	IGHG2; IGHG3; IGH	P01859; P01860;	IGHG2	HUM	Oxidation (M)	576290	816020	1121500	74012	39630	49556	0	0	0
EPSAPSIPTPAYQSSPAGGHAPTPPTPAPR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	5443800	2441500	2542400	0	0	0	0	0	0
EPSFDWK	PRKDC; PRKDC	P78527; H0YG84	PRKDC	HUM	Unmodified	764580	1181800	758180	0	0	0	0	0	0
EPSVQEATSTSDILK	SRRM1; SRRM1; SR	Q8IYB3; E9PCT1	SRRM1	HUM	Unmodified	541000	893110	724500	25606	37249	0	0	0	0
EPTPSIASDISLPIATQELR	ESYT2; ESYT2; ESY	A0FGR8; A0A087	ESYT2	HUM	Unmodified	675920	926180	758810	0	0	0	0	0	0
EPTPVLGSGAAAAGR	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Unmodified	3487800	3032100	3558500	0	36113	0	0	0	0
EPTSSEQGGLEGSGSAAGEGKPALSEEER	UBXN1; UBXN1; UB	Q04323; E9PJ81;	UBXN1	HUM	Unmodified	885250	965510	1169300	0	0	0	0	0	0
EPVHLLSLFK	SCIN	Q9Y6U3	ADSV	HUMA	Unmodified	1127600	737160	0	0	0	0	0	0	0
EPVQLETLSIR	SNRPD1; SNRPD1	P62314; J3QLI9	SMD1	HUM	Unmodified	5998500	5631200	416650	0	14429	15155	0	0	0
EPVVTPQDLEGPGR	MAP1S	Q66K74	MAP1S	HUM	Unmodified	0	373800	515390	0	0	0	0	0	0
EPWLLPSQHNDIIR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	1700600	2456300	1393600	0	0	0	0	0	0
EPWLLPSQHNDIIR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Deamidation (N)	1458600	1868000	1614400	0	0	0	0	0	0
EPWLLPSQHNDIIRDALGQR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Deamidation (N)	814410	548770	1262000	0	0	0	0	0	0
EPWMMEKKLSK	ZNF181; ZNF302; ZN	Q2M3W8; Q9NR1	ZN181	HUM	2 Oxidation (M);2 I	357740	0	0	0	0	0	0	0	0
EPWMMEKKLSKGMIPDWESR	ZNF181; ZNF181; ZN	Q2M3W8; M0R36	ZN181	HUM	3 Oxidation (M);2 I	2339800	0	501950	0	0	0	0	0	0
EQADFALEALAK	MYH14; MYH14	Q7Z406; M0QY42	MYH14	HUM	Unmodified	5826400	4696100	3561900	171150	129170	0	0	10778	17696
EQAEAEVASLNR	TPM3; TPM3; TPM3	D6R904; A0A494	D6R904	HUM	Unmodified	10447000	10258000	9109500	880390	643820	841390	0	0	0
EQAEAEVASLNRR	TPM3; TPM3; TPM3	D6R904; A0A494	D6R904	HUM	Unmodified	16248000	17458000	20748000	1372000	819200	1030000	61610	0	41945
EQAEAEVASLNRR	TPM3; TPM3; TPM3	D6R904; A0A494	D6R904	HUM	Deamidation (N)	3426500	0	2806400	88041	0	0	0	0	0
EQAEEERYFR	ATP5IF1; ATP5IF1	Q9UII2; A0A0B4	ATIF1	HUMA	Unmodified	2841900	3345800	3880300	88067	0	135600	0	0	0
EQAELTGLR	PGAM5	Q96HS1	PGAM5	HUM	Unmodified	3291300	3259600	4507400	261340	310140	251640	0	0	0
EQAIALLKDQEPGAFIIR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	344150	364770	410440	0	0	0	0	0	0
EQALAVSRNYLSQPR	ATP6V1B2; ATP6V1	P21281; E5RGH6	VATB2	HUM	Deamidation (N)	3253500	5455600	3959000	150110	191980	171160	29513	38272	0
EQALNLNSQLNIPK	BBS9; BBS9; BBS9;	Q3SYG4; A0A5F9	PTHB1	HUM	Unmodified	0	0	0	268960	248070	0	129990	123850	95880
EQAQQIELK	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP	HUMA	Unmodified	1411300	0	0	0	0	0	0	0	0
EQCEQLEK	UQCRHL; UQCRH	A0A096LP55; P0	QCR6L	HUM	Unmodified	0	0	0	0	0	0	0	0	0
EQDIYLPIANVAR	NFYB; NFYB	P25208; F8VSL3	NFYB	HUMA	Unmodified	1479800	1293300	0	0	0	0	0	0	0
EQDLQLEELR	USO1	O60763	USO1	HUMA	Unmodified	0	0	909560	0	0	0	0	0	0
EQEIRMGQMAMGGAMGINNR	NONO; NONO; NON	Q15233; A0A7Z4	NONO	HUM	4 Oxidation (M);De	747440	1466900	951730	0	0	0	0	0	0
EQEITAVQAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	12526000	5710400	12087000	1569200	1759200	1687800	0	0	0
EQEMTEMRDVMQQQLAEYQELLDVK	LMNB2	Q03252	LMNB2	HUM	3 Oxidation (M)	1865300	1441300	1217700	0	0	0	0	0	0
EQEPMPTVDSHEPR	JPT2; JPT2; JPT2	Q9H910; A6NGP5	JUP2	HUMA	Oxidation (M)	5609300	5855600	4256300	103480	150000	150560	0	0	0
EQERQLEVER	TBCC	Q15814	TBCC	HUMA	Unmodified	0	876160	623580	0	0	15750	0	0	0
EQEVNILK	MYH9	P35579	MYH9	HUM	Unmodified	5817900	4224600	5166500	605390	488010	638920	0	0	0
EQFAWR	RPS10; RPS10P5; RP	P46783; Q9NQ39;	RS10	HUM	Unmodified	898890	885960	0	0	0	0	0	0	0
EQFERVLGYIQLGQK	ALDH1B1	P30837	AL1B1	HUM	Unmodified	1363300	0	570630	0	0	0	0	0	0
EQFGNNPFSSLAGNSDSSSSQPLR	UBQLN4	Q9NRR5	UBQL4	HUM	Deamidation (N)	849110	561910	607970	0	0	0	0	0	0
EQFLDGDGWTSR	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUM	Unmodified	16373000	9669900	9623000	0	0	26875	0	0	0
EQFVEFR	CALU; CALU	O43852; H0Y875	CALU	HUM	Unmodified	3806700	4762700	4423200	277710	283040	268600	0	0	0
EQGFLSFWR	SLC25A4; SLC25A4	P12235; V9GYG0	ADT1	HUMA	Unmodified	752120	853580	707240	0	0	6868	0	0	0
EQGPREQEPELSFLK	PBXIP1	Q96AQ6	PBIP1	HUM	Unmodified	592210	0	411060	125690	60238	65473	0	0	0

EQGVEEHETLLLR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1120000	1471600	1695300	0	0	0	0	0	0
EQGVLSFWR	SLC25A6; SLC25A5	P12236; P05141	ADT3_HUMA	Unmodified	12602000	20198000	16503000	0	18175	29959	0	0	0
EQHLYYQDQLLPVSR	TPSAB1; TPSD1; TP	Q15661; Q9BZJ3;	TRYB1_HUM	Unmodified	0	0	0	0	59076	0	66981	0	0
EQIDIMVSNKKMDWERK	DEUP1; DEUP1; DEU	Q05D60; E9PPB2	DEUP1_HUM	Oxidation (M);4 M	1336300	803790	666530	0	0	0	0	0	0
EQILGDEAR	MOGS; MOGS; MOC	Q13724; A0A3B3	MOGS_HUM	Unmodified	418560	407910	1000700	84797	0	150640	0	0	0
EQISDIDDAVR	SUB1	P53999	TCP4_HUMA	Unmodified	9047900	11673000	12401000	425280	388240	390780	0	0	0
EQITLPEQAK	UBXN7; UBXN7	O94888; C9JAT7	UBXN7_HUM	Unmodified	1063200	1302500	1672700	0	0	0	0	0	0
EQIVGPLESPVEDSLWPYK	SAMHD1; SAMHD1;	Q9Y3Z3; A0A2R8	SAMH1_HUM	Unmodified	197080	295970	261720	0	0	0	0	0	0
EQIVPKPEEEVAQK	RPL17; RPL17; RPL	P18621; A0A087	RL17_HUMA	Unmodified	6379600	6696400	6314800	0	0	0	0	0	0
EQIVVDLSHPGVSEDDQVSR	UGDH	O60701	UGDH_HUM	Unmodified	1431200	1019900	0	167440	133870	61348	54290	0	0
EQIYDVYR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUMA	Unmodified	3106100	3032400	2675800	0	0	0	0	0	0
EQKDEEIPENANNEK	SPEF2	Q9C093	SPEF2_HUM	Methyl (KR);3 Dea	0	253020	0	0	0	0	0	0	0
EQKEGAFSNFPISEETIK	DDX21; DDX50	Q9NR30; Q9BQ39	DDX21_HUM	Unmodified	1114400	1079600	1140000	0	20109	0	0	0	0
EQKEQKEEPLREQGAK	TBATA	A0A0A0MSR7	A0A0A0MSR7	2 Methyl (KR)	4554500	0	0	0	0	0	0	0	0
EQLAALKK	ATP5IF1	Q9UII2	ATIF1_HUMA	Unmodified	1850700	1813300	1476300	74662	0	0	0	0	0
EQLAIAEFAR	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA_HUMA	Unmodified	12353000	8959000	9738400	346770	212520	221390	0	15343	0
EQLAQAMFDHIPVGVGSK	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M)	0	1153900	2281900	78399	23604	84217	0	14986	14250
EQLEEEEEAK	MYH9	P35579	MYH9_HUM	Unmodified	665300	705120	922830	0	38344	0	0	0	0
EQLEEEEEAKHNLEK	MYH9	P35579	MYH9_HUM	Unmodified	0	0	1788000	0	0	0	0	0	0
EQLLQSNPVLEAFGNAK	MYO1B; MYO1A; M	O43795; Q9UBC5	MYO1B_HUM	Deamidation (N)	0	0	495820	0	0	0	0	0	0
EQLMFPFHFVDR	MRPS9	P82933	RT09_HUMA	Oxidation (M)	509390	645780	765460	0	0	0	0	0	0
EQLRQEQALLEEIER	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1687100	1306100	1418300	0	0	0	0	0	0
EQLSLLDR	SERPINA3; SERPIN/	P01011; G3V595	AACT_HUM/	Unmodified	6671300	5060600	6988900	0	0	0	0	0	0
EQLSLLDRFTEDAK	SERPINA3; SERPIN/	P01011; G3V595	AACT_HUM/	Unmodified	2770800	3120100	2300200	0	0	0	0	0	0
EQLSLLDRFTEDAKR	SERPINA3; SERPIN/	P01011; G3V595	AACT_HUM/	Unmodified	4325900	4684300	5157500	0	0	0	0	0	0
EQLTEEAR	DNAJB11; N/A	Q9UBS4; H7C2Y5	DJB11_HUM/	Unmodified	810060	0	542250	0	0	0	0	0	0
EQMATLGER	ZFP64; ZFP64; ZFP6	Q9NTW7; A2A2N	ZF64B_HUM/	Oxidation (M)	3643900	0	0	0	0	0	0	0	0
EQMEAEIAHLK	KTN1	Q86UP2	KTN1_HUMA	Oxidation (M)	853480	964520	0	61274	26546	53473	0	0	0
EQMEAEIAHLKQENGILR	KTN1	Q86UP2	KTN1_HUMA	Oxidation (M);Deai	1845200	1950600	491160	296930	141170	63415	0	0	0
EQMMREKEELMLRLQDYEEK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA/	2 Oxidation (M);M	0	0	1706100	226140	185940	160500	145890	151010	118260
EQMQDALGNNSSFHHRINIYEIIK	BMP2	P12643	BMP2_HUM/	Unmodified	13449000	13338000	14725000	915160	707350	731610	182770	113280	0
EQNKPDSSPLYIQNPFETSLNISK	MTPAP	Q9NVV4	PAPD1_HUM	Unmodified	2623500	1246300	1540700	0	0	0	0	0	0
EQPPRFAQPGSFEYEYAMR	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM/	Oxidation (M)	11798000	11690000	11923000	0	0	68352	0	0	0
EQPPRFAQPGTFEFEYASR	PSPC1	Q8WXF1	PSPC1_HUM	Unmodified	2378100	2681800	2300500	567720	919240	19809	0	0	0
EQPWVSVQPR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1032000	0	465400	0	0	0	0	0	0
EQQALSR	COLGALT1	Q8NBJ5	GT251_HUM	Unmodified	0	75587	1032300	0	301680	0	0	0	0
EQQEAIEHIDEVQNEIDR	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM	Deamidation (N)	5622100	4807700	5121400	0	0	18278	0	0	0
EQQEAIEHIDEVQNEIDR	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM	Unmodified	3165000	2636000	2864300	0	0	30162	0	61760	50380
EQQHVMEELFQSSFR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	3685100	2892500	1775100	49119	0	34236	0	0	0
EQQIEEHR	DBN1; DBN1	Q16643; D6R9W4	DREB_HUM/	Unmodified	413330	0	968470	73812	81667	537900	35620	24339	32539
EQQIVIQSSGGLSK	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75_HUM	Unmodified	1921800	2195800	1354400	0	0	0	0	0	0
EQQIVIQSSGGLSKDDIENMVK	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75_HUM	Oxidation (M)	1758300	0	0	0	0	0	0	0	0
EQQLAEIEAR	NOMO1; NOMO3; N	Q15155; P69849;	NOMO1_HUM	Unmodified	3948400	3101700	2746700	106250	149810	98131	0	0	0
EQQQEIINLRKGEEQR	N/A	N/A	N/A	Deamidation (N)	0	0	210590	133360	0	265810	0	0	0
EQQQIEK	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A_HUM	Unmodified	0	0	417960	0	0	0	0	0	0
EQSEGVGAR	PIR	O00625	PIR_HUMAN	Unmodified	989030	1960400	2326300	113500	102440	110290	0	0	0
EQSILELGSLLAK	PSMD11; PSMD11	O00231; J3QRY4	PSD11_HUM	Unmodified	2318400	2715500	2893800	0	0	0	9674.5	13893	0
EQSLDALQTHYDELQAR	GOLGA3	Q08378	GOGA3_HUM	Unmodified	460780	466020	342770	0	0	0	0	0	0
EQSNDIARGFER	CBX5	P45973	CBX5_HUMA	Deamidation (N)	2289100	3158200	2424300	261510	141270	250570	0	0	0
EQSQLTATQTR	PRPF8	Q6P2Q9	PRP8_HUMA	Unmodified	2874900	2536900	2663100	470450	556680	600410	0	0	0
EQTADGVAVIPVLQR	NUDT5; NUDT5; NU	Q9UKK9; H0YEY	NUDT5_HUM	Unmodified	2199600	1678400	2125000	28376	0	24921	0	0	0
EQTEILESSR	ZC3H13; ZC3H13	Q5T200; A0A7Z\	ZC3HD_HUM	Unmodified	456250	521630	546110	0	0	0	0	0	0
EQTEQILR	GART; GART	P22102; A0A140	PUR2_HUMA	Unmodified	1369000	1721100	1432500	0	0	0	0	0	0
EQTFSGGTSQDTK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	838380	0	1082100	0	60635	47480	0	0	0
EQTLHTPVMMQTPQLTSTIMR	STAG2	Q8N3U4	STAG2_HUM	3 Oxidation (M)	2170300	2165400	1106000	0	0	0	0	0	0
EQTLHTPVMMQTPQLTSTIMREPK	STAG2	Q8N3U4	STAG2_HUM	3 Oxidation (M)	4434400	5882300	5339600	129580	124550	233680	0	0	0
EQTVYYAK	PMPCB; PMPCB; PM	O75439; G3V0E4;	MPPB_HUM/	Unmodified	0	2602200	2374800	93507	116710	98591	0	0	0
EQVANSAFVER	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Deamidation (N)	22490000	24739000	23510000	869000	686600	919800	0	0	0
EQVANSAFVER	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Unmodified	14529000	14609000	13857000	445370	293140	363770	0	0	0
EQVIAALR	RAD23B; RAD23B	P54727; H0Y579	RD23B_HUM	Unmodified	11602000	9954700	8517600	353000	314350	292910	0	0	0
EQVLEPMLNGTEK	TOP2A	P11388	TOP2A_HUM	Oxidation (M);Deai	0	0	1854500	0	0	0	0	0	0
EQVLQPVSAELLELDIR	GNL1; GNL1	P36915; A2AB27	GNL1_HUMA	Unmodified	369910	0	197860	0	0	0	0	0	0
EQVSEELVR	RABEP1	Q15276	RABE1_HUM	Unmodified	517790	625960	0	195100	0	85571	0	0	0
EQVVEDRPVGGR	GOLM1	Q8NBJ4	GOLM1_HUM	Unmodified	859690	452000	415060	71493	52726	54686	0	0	0
EQWANLEQLSAIR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	1690700	2130100	1807800	0	0	0	0	0	0
EQWDTIEELIR	DECR1	Q16698	DECR_HUMA	Unmodified	100490	103470	120370	0	0	0	0	0	0
ERANGMELDGRRIR	TRA2A; TRA2B; TR	Q13595; P62995;	TRA2A_HUM	4 Methyl (KR);Dea	171020	0	0	0	0	0	0	0	0
ERDFTSLENTVEER	CKAP4	Q07065	CKAP4_HUM	Unmodified	1471700	1352100	1180000	100600	62739	79276	0	0	0
ERDFTSLENTVEER	CKAP4	Q07065	CKAP4_HUM	Deamidation (N)	0	0	0	0	0	104770	0	0	0
EREEETPAYQGPGIPELLSPMR	OS9; OS9; OS9; OS9;	Q13438; B4E321;	OS9_HUMAN	Oxidation (M)	3610800	2688700	2144000	0	0	0	0	0	0
EREERIAEAEIENLTGARHMESEK	OTUD6B; OTUD6B	Q8N6M0; A0A08	OTU6B_HUM	3 Methyl (KR)	178630000	144690000	149130000	109120000	106650000	104770000	104700000	11924000	0
EREHLEMELEKAEMER	KTN1; KTN1; KTN1;	Q86UP2; B7Z6P3	KTN1_HUMA	2 Oxidation (M)	2048900	1578000	1343100	60876	0	0	0	0	0
EREMVATQQEMMDAQLR	NDUFB7	P17568	NDUB7_HUM	3 Oxidation (M)	0	1891000	1825700	0	0	0	0	0	0
ERENVLFLTSGTR	MAP7; MAP7	Q14244; A0A087	MAP7_HUM/	Unmodified	376470	308680	468380	23034	46264	51381	9022.4	0	9030.3
EREQPPRFAQPGSFEYEYAMR	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM/	Oxidation (M)	1388800	1507100	1060100	0	0	0	0	0	0
EREQQIEEHR	DBN1; DBN1	Q16643; D6R9W4	DREB_HUM/	Unmodified	615600	777000	953460	148300	19364	0	0	0	0
ERESLQQMAEVTR	PRKCSH; PRKCSH;	P14314; K7EPW7	GLU2B_HUM	Oxidation (M)	7408600	8192700	7751800	400840	131100	202450	0	0	0
ERGGPEEGVR	NCOA5	Q9HCD5	NCOA5_HUM	Unmodified	195660	206180	228250	0	16455	15433	0	0	0
ERHPGSFDVVHVK	RPS4X; RPS4Y1; RP	P62701; P22090;	RS4X_HUMA	Unmodified	584850	292070	746650	0	0	0	0	0	0
ERHPGSFDVVHVKDANGNSFATR	RPS4X; RPS4Y1; RP	P62701; P22090;	RS4X_HUMA	2 Deamidation (N)	1282400	924040	1227100	0	0	0	0	0	0
ERILTLESMNPQVK	GPT2	Q8TD30	ALAT2_HUM	Oxidation (M)	890700	0	893770	36775	48876	0	0	0	0
ERIPEAPAGPPSDFGLFLSDDDPK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	0	1540400	0	0	0	0	0	0	0
ERIPEAPAGPPSDFGLFLSDDDPKK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1536000	1569300	1642500	0	0	0	0	0	0
ERKELEEER	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1_HUM	Unmodified	849680	0	665040	0	0	0	0	0	0
ERKELEEERAGR	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1_HUM	Unmodified	987360	857780	1141500	33187	0	0	0	0	0
ERLDGENIYIR	EPB41; EPB41; EPB4	P11171; A0A2R8	EPB41_HUM	Unmodified	1150800	1025600	942300	83879	0	0	0	0	0
ERLDQPMTEIVSR	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Oxidation (M)	1352700	2872900	1907700	0	26778	34944	0	0	0
ERLELCDER	UQCRH	P07919	QCR6_HUMA	Unmodified	2160800	0	2104400	166320	188170	205540	0	0	0
ERLELCDERVSSR	UQCRH	P07919	QCR6_HUMA	Unmodified	7251700	6356800	3922600	2155000	1781600	1873100	0	0	0
ERLEQQVPVNQVFGQDEMIDVIGVTK	RPL3; RPL3; RPL3; I	P39023; B5MCW	RL3_HUMAN	Oxidation (M)	5754900	5174000	5783000	0	0	0	0	0	0
ERLEQQVPVNQVFGQDEMIDVIGVTK	RPL3; RPL3; RPL3; I	P39023; B5MCW	RL3_HUMAN	Oxidation (M);Deai	1013900	969230	1569400	0	0	0	0	0	0
ERMEPTYQLSR	STXBP2; STXBP2	Q15833; M0R1A1	STXB2_HUM	Oxidation (M)	839540	0	995890	126730	164260	207430	19485	35684	15979
ERMFNGEKINYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI_HUMA	Oxidation (M);Deai	386940	0	533180	0	0	0	0	0	0
ERMFNGEKINYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI_HUMA	Oxidation (M);2 De	1336000	1083700	0	0	0	0	0	0	0
ERNRVK	ASCL2; ASCL1	Q99929; P50553	ASCL2_HUM	2 Methyl (KR);Dea	0	114830	38400	0	0	0	0	0	0
ERPAAISIEIK	STK38	O15208	STK38_HUM	Unmodified	0	0	400560	0	0	0	0	0	0
ERPDLEAPAGPSPFR	KIF13B; KIF13B	Q9NQT8; H0YBA	KI13B_HUM/	Unmodified	2166200	1432300	0	50969	0	70745	0	0	0
ERPISLGIFPLPAGDGLLTPDAQK	SPAG9; SPAG9; SPA	O60271; D6RH8	JIP4_HUMAN	Unmodified	2797100	3233900	3385700	0	0	0	0	0	0
ERPPEEVAAR	IMMT; IMMT; IMMT	Q16891; A0A087	MIC60_HUM	Unmodified	6374000	5517500	7247700	660370	627600	698210	0	0	0
ERPPFIPEGVVAR	GTPBP4	Q9BZE4	GTPB4_HUM	Unmodified	0	600500	2074900	0	0	0	0	0	0
ERPPSGTLEKLVSEAK	GPC1; GPC1; GPC1	P35052; H7C410;	GPC1_HUMA	Unmodified	562930	0	1189300	0	0	0	0	0	0
ERPQDRPEDLDVPPALADFIHQQR	EXOSC10	Q01780	EXOSX_HUM	Unmodified	7765900	3984200	4612200	0	0	0	0	0	0
ERPQVELTFEETER	MRPL40	Q9NQ50	RM40_HUMA	Unmodified	0	0	954380	0	0	0	0	0	0
ERPSSAIYPSDSFR	ARHGEF2; ARHGEF	Q92974; V9GYF5	ARHG2_HUM	Unmodified	0	0	881410	0	0	0	0	0	0
ERQEAEEAKEALLQASR	MSN	P26038	MOES_HUM	Unmodified	3504600	3185400	3334700	208470	42009	144270	0	0	0
ERQTNPSAMEVEEDDPVPEIR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	4220600	4140200	5430500	0	168910	0	0	0	0
ERQTNPSAMEVEEDDPVPEIRR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	3741300	3578800	4661500	0	0	0	0	0	0
ERVEDVPIPIYFPPESQR	MRPL28; MRPL28; I	Q13084; A2IDC6;	RM28_HUMA	Unmodified	3159000	2603200	3398700	0	0	0	0	0	19611
ERVPSVAEAPQLRPAGTAAAK	KANK2	Q63ZY3	KANK2_HUM	Unmodified	650990	0	645210	52325	49762	0	85690	98323	78071
ERVTPPEGYEVVTVFPK	PDLIM1	O00151	PDLI1_HUM	Unmodified	1187900	864300	914280	197800	157120	125790	234160	177510	222230
ESAAPAAAPTAEAPPPSVVTRPEPQALPSPAIR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Unmodified	17924000	15266000	15376000	616320	487650	462310	132600	54321	62276
ESAATDVLQK	DNAJC11	Q9NVH1	DJC11_HUM	Unmodified	1241600	0	0	0	0	0	0	0	0
ESADPLGAWLQDAR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2085300	1540500	1507200	0	0	0	0	0	0
ESAEQSSGPGPSLRPQNSTTWR	PRRC2A	P48634	PRC2A_HUM	Deamidation (N)	553420	499580	0	0	0	0	0	0	0
ESAFEFLSSA	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC_HUM	Unmodified	392960	391820	330850	0	13280	12724	0	11493	11484
ESAINVAEGK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_HUM	Unmodified	2246600	2357200	2443400	73750	0	0	22642	41815	41208
ESAINVAEGKK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2_HUM	Unmodified	690050	686840	490940	0	0	0	0	0	0
ESALASADLEEEIHQK	RBM34; RBM34; RB	P42696; A2A2V2;	RBM34_HUM	Unmodified	889660	737700	732690	0	0	0	0	0	0
ESAQPPAHL	CCS; CCS	O14618; J3KNF4	CCS_HUMAN	Unmodified	1798100	1703100	2268500	262190	322090	590720	0	0	0
ESATADAGYAILEK	RBM10	P98175	RBM10_HUM	Unmodified	0	1163300	0	0	41050	0	0	0	0
ESAYLYAR	OGN; OGN	P20774; Q5TBF5	MIME_HUM	Unmodified	0	0	683210	680520	476730	725520	17007	21704	34697
ESDDPMAYIHFTAEGEVTFK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M)	431490	0	281240	0	0	0	0	0	0
ESDLNGAQIK	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	5349800	3412300	5147200	0	0	0	0	0	0
ESDLPSAILQTSGVSEFTK	CDC5L	Q99459	CDC5L_HUM	Unmodified	1611700	2151300	1717400	0	0	0	0	0	0
ESDVGFIPTSGLSGENLITR	HBS1L; HBS1L; HBS	Q9Y450; H0YES5	HBS1L_HUM	Unmodified	0	0	0	0	0	0	0	0	0
ESDVPLKTEEFEVTK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Unmodified	3790300	2596400	3228300	275670	251080	281520	0	0	0
ESDVPLKTEEFEVTK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Methyl (KR)	0	1506700	989450	244300	0	153310	0	0	0
ESDYFTPQGEFR	STT3B	Q8TCJ2	STT3B_HUM	Unmodified	3479000	3022800	3348000	150900	0	0	0	0	0
ESDYFTPQGEFRVDK	STT3B	Q8TCJ2	STT3B_HUM	Unmodified	1833200	1900700	2925500	305450	230820	221400	0	0	0
ESEAVEWQQK	MSN	P26038	MOES_HUM	Unmodified	3866300	3208800	4054400	0	0	0	0	0	0
ESEDFIVEQYK	MCM6	Q14566	MCM6_HUM	Unmodified	1995900	1441600	1706800	0	0	0	0	0	0
ESEFDDEPK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	510970	526840	560020	48015	66014	78273	0	0	0

ESEFDDEPKFMSK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM/	Oxidation (M)	744090	743750	716990	0	37355	88336	0	0	0
ESEFEKLSDFFK	SSRP1	Q08945	SSRP1	HUM/	Unmodified	0	0	0	0	0	0	0	0	0
ESEITDEDIDGILER	SMARCA5	O60264	SMCA5	HUM/	Unmodified	2531300	2319300	3008200	8691.4	12185	0	0	0	0
ESELGDRPLQVGER	SMCHD1	A6NHR9	SMHD1	HUM/	Unmodified	759630	1019500	725470	23059	20809	22443	0	0	0
ESELLATR	SPTBN5; EEA1	Q9NRC6; Q15075	SPTN5	HUM/	Unmodified	525340	989380	907890	0	0	0	0	0	0
ESELSKGGSVDITK	CMYA5	Q8N3K9	CMYA5	HUM/	2 Methyl (KR)	357780	330890	696000	0	0	0	0	0	0
ESESVDKVMDQK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUM/	Oxidation (M)	2442700	3201000	2292300	0	0	0	0	0	0
ESESVDKVMDQKEHK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUM/	Oxidation (M)	418980	310560	499130	0	0	0	0	0	0
ESEVAELTVLERPSFVK	ROBO1; ROBO1; RO	Q9Y6N7; A0A0A	ROBO1	HUM/	Unmodified	151440	506350	210680	0	0	0	0	0	0
ESFDGSVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	13165000	13790000	13996000	409340	294480	407920	0	0	0
ESFNPESYELDK	SEPHS1; SEPHS1	P49903; Q5T5U6	SPS1	HUM/	Unmodified	1149400	1420000	1122700	57271	0	55579	0	0	0
ESFNPESYELDKSFR	SEPHS1; SEPHS1	P49903; Q5T5U6	SPS1	HUM/	Unmodified	9756000	7597100	8235000	120050	79741	93682	0	0	18442
ESFPMILVANKVDLMHLRK	MRAS; MRAS	O14807; C9J8Q6	RASM	HUM/	Oxidation (M);3 M	0	815510	675460	0	0	0	0	0	0
ESGDILAQFLK	N/A	N/A	N/A		Unmodified	327570	1195800	676690	0	0	0	0	0	0
ESGDRNFAIGYYLK	GLS	O94925	GLSK	HUMA	Deamidation (N)	329830	226310	11950000	0	0	0	20462	0	0
ESGPSGIETELR	WDR36; WDR36	Q8NI36; A0A0A0	WDR36	HUM/	Unmodified	0	1962600	0	0	0	60340	0	0	0
ESGRFQDVGPQAPVGSVYQK	DBNL; DBNL; DBNL	Q9UJU6; B4DDD	DBNL	HUM/	Unmodified	2711300	3112700	2053100	0	0	0	0	0	0
ESGSLSPEHGPVVVHCSAGIGR	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUM/	Unmodified	0	441760	568200	0	0	0	0	0	0
ESGVDIAAGNMLVK	GART	P22102	PUR2	HUMA	Oxidation (M)	0	648820	826480	0	0	0	0	0	0
ESGYNMIHFTPLQTLGLSR	AGL	P35573	GDE	HUMA	Oxidation (M)	768510	442680	1191500	0	0	0	0	0	0
ESGYNMIHFTPLQTLGLSR	AGL	P35573	GDE	HUMA	Oxidation (M);Deam	1098600	722860	891370	0	0	0	0	0	0
ESHATLVFHNLLGEIDQQYSR	STAT3; STAT3; STA	P40763; A0A7I2V	STAT3	HUM/	Unmodified	426890	297860	474420	0	0	0	0	0	0
ESHPHGVK	SMAP; C11orf58; C1	O00193; E9PM92	SMAP	HUM/	Unmodified	0	129150	82613	0	17345	0	0	0	0
ESHRLPVDIAYK	DSP	P15924	DESP	HUMA	Unmodified	1383000	1249300	1748100	82976	135910	121380	0	0	0
ESHRLPVDIAYKR	DSP	P15924	DESP	HUMA	Unmodified	2714000	1731300	1870400	96309	92301	107320	0	0	0
ESHVQCSGMFSLAK	PAM16	I3L0X9	I3L0X9	HUM	Oxidation (M)	0	2049600	0	36140	0	34046	0	0	0
ESIAEHKPHIDKLLK	MACF1; MACF1; M/	Q9UPN3; H3BQK	MACF1	HUM/	Unmodified	0	0	547370	0	0	0	0	0	0
ESIDLVLDRIR	TUBA8; TUBA8; TU	Q9NY65; C9J2C0	TBA8	HUM/	Unmodified	854690	756650	1017200	22456	23594	0	0	0	13752
ESIEIINK	OAT	P04181	OAT	HUM/	Unmodified	2403900	3780400	2946800	77288	32989	87196	0	0	0
ESIESEIR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM/	Unmodified	4329800	3632100	5268300	146490	139730	174460	0	0	0
ESIESEIRR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM/	Unmodified	1819500	2174500	2260600	68582	46424	65723	0	0	0
ESKDPADETEAD	STMN1	P16949	STMN1	HUM/	Unmodified	4779200	4718100	5297700	0	0	0	0	0	0
ESKFFEHFIEGGR	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1	HUM/	Unmodified	0	539040	727960	0	0	0	0	0	0
ESKKEDLVFIFWAPESAPLK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1	HUMA	Unmodified	4635300	3119700	3208000	0	0	0	0	0	0
ESKKEDLVFIFWAPESAPLKSK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1	HUMA	Methyl (KR)	3291400	2969000	3515300	0	0	0	0	0	0
ESKLSEVLQAVTDHDIPQQLVER	USP7; USP7; USP7	Q93009; A0A669	UBP7	HUMA	Methyl (KR)	322120	0	0	0	0	0	0	0	0
ESLAEEHEGLVGEGQR	CPSF1	Q10570	CPSF1	HUM/	Unmodified	968640	1143500	892410	44737	59482	39481	0	0	0
ESLDVYELDAK	ASAH1; ASAH1; AS/	Q13510; A0A1B0	ASAH1	HUM/	Unmodified	1413400	835870	1032700	173510	131370	143950	0	0	0
ESLEALLQR	PRPF6	O94906	PRP6	HUMA	Unmodified	580800	1008900	929860	0	0	0	0	0	0
ESLLAEQR	TPR	P12270	TPR	HUMA	Unmodified	4892900	0	5073600	0	234430	0	0	0	0
ESLNVDVVK	KLC1; KLC1; KLC1;	Q07866; G3V5R9	KLC1	HUM/	Unmodified	622480	778640	809110	23729	25570	18768	0	0	0
ESLPVIAAPSMWTRPQIK	ACBD3	Q9H3P7	GCP60	HUM/	Oxidation (M)	1113200	0	1506200	0	0	0	0	0	0
ESLQQMAEVTR	PRKCSH; PRKCSH;	P14314; K7EPW7	GLU2B	HUM/	Oxidation (M)	24215000	26661000	19063000	28396	0	51331	0	0	0
ESLSEEEAQK	SRRT; SRRT	Q9BXP5; H7C3A	SRRT	HUM/	Unmodified	3114900	961950	3090500	255820	264160	127920	16915	0	0
ESLSEEEAQKMGR	SRRT; SRRT	Q9BXP5; H7C3A	SRRT	HUM/	Oxidation (M)	3952000	0	1059100	0	0	0	0	0	0
ESLSGQAVR	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL	HUM/	Unmodified	0	0	0	310650	451140	408750	0	0	0
ESLSQPGDFVLSVLSDQPK	PTPN6; PTPN6; PTP	P29350; F5GY79;	PTN6	HUM/	Unmodified	2430200	1820900	1865400	0	0	0	0	0	0
ESLVVNYEDLAAR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM/	Unmodified	449470	399520	2219200	0	0	0	0	0	0
ESLVVNYEDLAAR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM/	Deamidation (N)	147990	0	197200	0	6096.3	0	0	0	0
ESMATGSIPITVR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM/	Oxidation (M)	6113200	5967900	5389000	0	0	0	0	0	0
ESMQMQVEAER	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM/	2 Oxidation (M)	2726600	2720700	2625700	0	0	0	0	0	0
ESPFSTSASPLLSGSQHFDVPPR	XPO1; XPO1; XPO1;	O14980; A0A7I2	XPO1	HUM/	Unmodified	1005100	1690300	990180	0	0	0	0	0	0
ESPQEIAR	SORD; SORD	Q00796; A0A618	DHSO	HUM/	Unmodified	0	0	1110800	0	215920	328360	0	0	0
ESPSLASR	ATXN2L; ATXN2L;	Q8WWM7; H3BS	ATX2L	HUM/	Unmodified	2404100	2069700	2788000	91873	83878	0	0	0	0
ESQAKDVIEEYFK	RPS12	P25398	RS12	HUMA	Unmodified	1187800	703450	976510	0	0	0	0	0	0
ESQFLKEELVAAVEDVRK	CTNNA1; CTNNA1;	P35221; E5RIB1;	CTNA1	HUM/	Unmodified	3111500	3261700	2189000	0	0	0	0	0	0
ESQMTIEERK	SVIL; SVIL; SVIL	O95425; A0A6B	SVIL	HUMA	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
ESQSHPGDFVLSVR	PTPN11; PTPN11	Q06124; A0A1W2	PTN11	HUM/	Unmodified	6658100	4974800	6227500	301790	311960	373980	31264	33406	32416
ESQSPDTTIQR	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1	HUM/	Unmodified	952910	1080900	1188200	0	0	0	0	0	0
ESQSVEEALK	GMPS	P49915	GUAA	HUM/	Unmodified	839840	1003500	925780	0	0	0	0	0	0
ESQSVEEALKK	GMPS	P49915	GUAA	HUM/	Unmodified	934220	807680	718270	0	0	0	0	0	0
ESQVSILQSLFGER	ORC5; ORC5	O43913; G3V0H0	ORC5	HUM/	Unmodified	57122	40614	48035	0	0	0	0	0	0
ESRPAEVPAEGLVNGAGAPGGGGVR	EHBP1L1; EHBP1L1	Q8N3D4; E9PIH6	EH1L1	HUM/	Deamidation (N)	0	542860	446910	0	0	0	0	0	0
ESSDNQENRGK	MEOX1	P50221	MEOX1	HUM/	Deamidation (N)	0	413020	442590	85671	228630	0	0	0	0
ESSEYLKCLTQQAVALQRTMNEIYR	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU	HUMA	Oxidation (M);2 M	0	950090	428790	0	0	0	0	0	0
ESSPLYSPTFSDSTSAVKEK	MAP1B	P46821	MAP1B	HUM/	Unmodified	0	1121000	1045300	261460	237930	251900	0	0	0
ESSSEQYVPDVFYK	NPLOC4	Q8TAT6	NPL4	HUM/	Unmodified	1226600	845000	808490	32317	35142	29480	0	0	0
ESSTVFELK	ELOB; ELOB; ELOB	Q15370; A0A0B4	ELOB	HUM/	Unmodified	348610	329540	402100	0	0	0	0	0	0
ESTAEKDEL	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL	HUM/	Unmodified	17180000	13402000	15751000	0	0	0	0	0	0
ESTAEKDEL	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL	HUM/	Methyl (KR)	653510	606710	1045300	0	0	0	0	0	0
ESTATTFLR	YIPF4; YIPF4	Q9BSR8; H7C0D5	YIPF4	HUM/	Unmodified	2171800	1509800	1265600	83144	50114	0	0	0	0
ESTEATQSRTVR	GON4L	Q3T8J9	GON4L	HUM/	Methyl (KR)	1561400	0	600830	61303	22791	18557	0	0	0
ESTEKGSPLGEVVEQGITR	DAP3; DAP3; DAP3	P51398; V9GYL9	RT29	HUM/	Unmodified	1100200	1089000	997550	0	0	0	0	0	0
ESTGAQVQVAGDMLPNSTER	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM/	Oxidation (M)	6013200	6356400	6126200	72301	376000	292900	0	0	0
ESTGAQVQVAGDMLPNSTER	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM/	Oxidation (M);Deam	30396000	24341000	29022000	914530	904850	831560	0	0	0
ESTQLSPADLTEGKPTDPSK	NSUN2	Q08J23	NSUN2	HUM/	Unmodified	1866100	2301100	2361900	11979	0	0	0	0	0
ESVELALK	HTATSF1; HTATSF1	O43719; Q5H919;	HTSF1	HUM/	Unmodified	578030	725410	529980	0	0	0	0	0	0
ESVEQQADSFK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1	HUM/	Unmodified	871870	1160300	1114600	0	0	0	0	0	0
ESVFTNERFPLR	BUD23	O43709	BUD23	HUM/	Unmodified	628610	549440	595560	38584	53810	30819	0	0	0
ESVLQFYPK	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUM/	Unmodified	9497700	8489700	8869000	95857	84460	94956	0	0	0
ESVLQMMQAGQR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM	HUM/	2 Oxidation (M)	1462600	811670	1616100	0	0	0	0	0	0
ESVLTATSILNNPIVK	ZNF326; ZNF326	Q5BKZ1; A0A0A	ZN326	HUM/	Unmodified	3341400	3556800	3388500	0	0	0	0	0	0
ESVLTATSILNNPIVKAR	ZNF326; ZNF326	Q5BKZ1; A0A0A	ZN326	HUM/	Methyl (KR)	393580	391350	451010	0	0	0	0	0	0
ESVNAAFEMTLTEGSKLEK	ECHS1	P30084	ECHM	HUM/	Oxidation (M);Deam	1437800	0	0	0	0	0	0	0	0
ESVNAAFEMTLTEGSKLEK	ECHS1	P30084	ECHM	HUM/	Oxidation (M)	3704400	0	3301000	0	0	0	0	0	0
ESVNYLVSQQNMLLPTSFSPLK	NIPSNAP3A	Q9UFN0	NPS3A	HUM/	Oxidation (M)	15354000	3729400	10016000	0	0	0	0	0	0
ESVNYLVSQQNMLLPTSFSPLK	NIPSNAP3A	Q9UFN0	NPS3A	HUM/	Oxidation (M);Met	1107400	472340	1013900	0	0	0	0	0	0
ESVNYLVSQQNMLLPTSFSPLK	NIPSNAP3A	Q9UFN0	NPS3A	HUM/	Oxidation (M);Deam	665260	0	0	0	0	0	0	0	0
ESVNYLVSQQNMLLPTSFSPLK	NIPSNAP3A	Q9UFN0	NPS3A	HUM/	Oxidation (M);Met	649510	276980	675900	0	0	0	0	0	0
ESVNYLVSQQNMLLPTSFSPLK	NIPSNAP3A	Q9UFN0	NPS3A	HUM/	Oxidation (M);2 De	0	0	0	0	0	0	0	0	0
ESVPEFPLSPPK	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM/	Unmodified	21753000	22403000	23133000	134350	128540	117870	0	0	0
ESVPLDDQEKLPFTVVHER	PIGS	Q96S52	PIGS	HUMA	Unmodified	793790	1022600	0	0	0	0	0	0	0
ESVQVPDDQDFR	STARD10; STARD10	Q9Y365; F5H1Z6	STA10	HUM/	Unmodified	2531100	1839300	2573700	135720	134650	119020	0	0	0
ESVRKQDNMDKCNGLIR	N/A	N/A	N/A		Oxidation (M);3 M	5331300	0	0	51403	0	37663	0	0	0
ESVTIEAQELSLSAVK	PRKD3	O94806	KPCD3	HUM/	Unmodified	1618700	0	0	0	0	0	0	0	0
ESYDDVSSFR	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2	HUM/	Unmodified	1101300	1245900	1136500	0	64731	95187	0	0	0
ESYEVSLTQK	OCIAD1; OCIAD1; O	Q9NX40; D6RBN	OCAD1	HUM/	Unmodified	1321300	2889900	3875200	226890	154490	152210	0	0	0
ESYPVFYLFR	ERP29; ERP29	P30040; F8VY02	ERP29	HUM/	Unmodified	2674600	2110900	2231000	0	0	0	0	0	0
ESYSVYVYK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C	HUM/	Unmodified	57666000	58749000	52284000	598420	507720	611380	122070	195100	108080
ESYSVYVYKVLK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C	HUM/	Unmodified	1935900	1770800	1564900	0	0	0	0	6559.8	0
ESYSVYVYKVLK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C	HUM/	Methyl (KR)	2382200	2291100	1726800	0	0	0	0	0	0
ESYVETELIFALAK	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	Unmodified	308570	0	0	0	0	0	0	0	0
ESYYQLMK	SRM; SRM	P19623; K7EQ47	SPEE	HUMA	Oxidation (M)	1016700	888940	1070600	0	0	0	0	0	0
ETAAGGLTLKEER	SYMPK	Q92797	SYMPK	HUM/	Unmodified	943750	808100	860230	0	84607	0	0	0	0
ETADTDTADQVMASFK	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1	HUM/	Oxidation (M)	3451500	3231400	3273100	0	0	12318	0	0	0
ETAEADVASLNR	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM/	Unmodified	1328800	998730	0	85026	52931	77701	0	0	0
ETAEADVASLNRR	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM/	Unmodified	876000	873810	0	0	0	0	0	0	0
ETASELLMR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM/	Oxidation (M)	1365700	1172300	1336500	72953	0	0	0	0	0
ETAVPGPLGIEDISPNLSPDDKSFSR	TP53BP1; TP53BP1	Q12888; A6NNK5	TP53B	HUM/	Unmodified	3159600	1829400	3095000	0	0	0	0	0	0
ETDEETKQILR	POLR3D; POLR3D	P05423; E5RHT4	RPC4	HUMA	Unmodified	402600	262070	253770	0	0	29539	0	0	0
ETDFYLQSVER	ABT1	Q9ULW3	ABT1	HUMA	Unmodified	787720	526540	553990	0	0	0	0	0	0
ETDLLLDDSLVSIFGNRR	PRDX5	P30044	PRDX5	HUM/	Deamidation (N)	293980	0	0	0	0	0	0	0	0
ETDLLLDDSLVSIFGNRR	PRDX5	P30044	PRDX5	HUM/	Unmodified	1334400	0	555790	0	0	0	0	0	0
ETDLQELFRPFGSISR	EIF3G; EIF3G; EIF3(	O75821; K7EP16;	EIF3G	HUM/	Unmodified	6694400	6905400	5759500	0	0	0	0	0	0
ETEGDVTSVK	CCT8	P50990	TCPQ	HUM/	Unmodified	640540	836340	0	0	0	81048	0	0	0
ETEGGTVLTATTSELEAINKR	SMC3	Q9UQE7	SMC3	HUM/	Unmodified	5014500	5897100	4031700	0	0	0	0	0	0
ETEGGTVLTATTSELEAINKR	SMC3	Q9UQE7	SMC3	HUM/	Deamidation (N)	0	0	5501700	0	0	0	0	0	0
ETENVKSSEEIESAFR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM/	Unmodified	8819500	10787000	9689200	1209900	882320	684240	0	0	0
ETFASTASQLHSNVVNYVQQIVAPK	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB	HUM/	Unmodified	883570	0	509670	0	0	0	0	0	0
ETFEKTPVEVPVGGFKGR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	987550	1215700	1470300	612290	424010	142990	0	67856	0
ETFLTSPEELVR	AHSA1; AHSA1; AH	O95433; H0YJ63;	AHSA1	HUM/	Unmodified	2993200	3652900	3660500	0	0	20476	0	0	0
ETGDPGGQLVLAGDPR	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10	HUM/	Unmodified	1077200	792200	879890	110310	105310	81811	0	0	0
ETGKLKGEATVSFDDPPSAK	FUS; FUS	P35637; H3BPE7	FUS	HUMA	Unmodified	604910	1281300	1477100	45189	52927	0	0	0	0
ETGSSKGFGFVDFNSEEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Deamidation (N)	1320300	1040100	909620	19751	30314	25762	0	0	0
ETGSSKGFGFVDFNSEEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Methyl (KR);Deam	1027900	1389300	809320	0	0	16778	0	0	0
ETGVDLTK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM/	Unmodified	0	1658500	0	0	0	0	0	0	0
ETGVDLTKDNMALQR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM/	Oxidation (M)	10098000	11564000	11736000	140600	0	0	0	0	0
ETGVDLTKDNMALQR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM/	Oxidation (M);Deam	1254700	1317600	1588400	0	0	0	0	0	0
ETGVPIAGR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM/	Unmodified	635520	795410	730290	0	0	0	0	0	0
ETGYVVERPSTTK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1	HUM/	Unmodified	836160	965800	721190	0	43630	0	0	0	0
ETHSLFFR	DDOST; DDOST; DD	P39656; U3KQ84;	OST48	HUM/	Unmodified	835730	1010000	747110	0	0	0	0	0	0
ETIDAVPNAIPGR	ZNF207; ZNF207; ZN	O43670; H0Y3M2	ZN207	HUM/	Unmodified	678020	844480	1117500	0	0	0	0	0	0

ETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	Methyl (KR)	3553900	0	4692000	0	0	0	45444	0	52386
ETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	Unmodified	0	12124000	10324000	0	0	0	0	0	0
ETIEQEKR	TMSB10	P63313	TYB10_HUM	Unmodified	3363800	2603400	2978300	36861	39717	0	0	0	0
ETIEQEKRSEIS	TMSB10	P63313	TYB10_HUM	Unmodified	2279700	2184400	2232100	97085	0	59893	0	0	0
ETIFSISK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	1133700	1024500	1015800	23722	16149	25061	0	0	0
ETIPLQETSLYTQDR	PPT1; PPT1; PPT1; P	P50897; A0A286Y	PPT1_HUMA	Unmodified	7746700	4838000	6991500	168250	187220	213340	0	0	0
ETITAPVPFDFTHK	GFM1; GFM1	Q96RP9; C9IZ01	EFGM_HUM	Unmodified	1833200	1296300	1252700	34968	43248	0	0	0	0
ETKDTDIVDEAIYYFK	ARPC3; ARPC3; ARI	O15145; F8VR50;	ARPC3_HUM	Unmodified	736530	641770	934740	0	0	0	0	0	0
ETKPEPMEEDLPENK	STIP1; STIP1	P31948; F5H783	STIP1_HUMA	Oxidation (M)	2095900	1623500	1556300	0	39201	37115	0	0	0
ETKPEPMEEDLPENKK	STIP1; STIP1	P31948; F5H783	STIP1_HUMA	Oxidation (M)	1974600	1457200	1465000	0	0	0	0	0	0
ETKSEETLDEGPPKYTK	FKBP3	Q00688	FKBP3_HUM	Unmodified	0	0	643240	0	0	0	0	0	0
ETLAQLQQEFQR	PFDN6	O15212	PFD6_HUMA	Unmodified	4090100	1939600	1701300	0	0	0	0	0	0
ETLLNGVGYLHEGLSPMER	SNRNP200	O75643	U520_HUMA	Oxidation (M);Deai	552380	0	0	0	0	0	0	0	0
ETLLNSATTSLNSK	CCT4	P50991	TCPD_HUMA	2 Deamidation (N)	0	0	648410	0	0	0	0	0	0
ETLNISGPPLK	LAP3; LAP3	P28838; H0Y983	AMPL_HUM	Unmodified	922390	857040	805670	51569	0	0	0	0	0
ETLPAEQDLTTK	PSMA1; PSMA1	P25786; F5GX11	PSA1_HUMA	Unmodified	4169400	3185900	4261400	0	0	0	0	0	0
ETLVYLTHLDYVDTER	XPO1; XPO1; XPO1;	O14980; A0A7Z7	XPO1_HUMA	Unmodified	5941800	6231200	4855300	0	0	0	0	0	0
ETMTLILK	RPS6KA1; RPS6KA1	Q15418; E9PGT3	KS6A1_HUM	Oxidation (M)	354040	419230	425300	0	0	0	0	0	0
ETNELLKELGSLPLPLSTSEQR	STX12; STX12	Q86Y82; B1AJQ6	STX12_HUM	Unmodified	649780	354990	496130	0	0	0	0	0	0
ETNEPVKTK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	1210200	1567400	1759900	131390	135870	195750	0	0	0
ETNKSRGFAFVTFESPADAK	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	2 Methyl (KR);Dea	0	0	0	116730	61990	0	0	0	0
ETNLDSLPLVDTHSK	VIM	P08670	VIME_HUMA	Unmodified	2363100	2934800	3437100	809820	863360	838940	24166	21938	0
ETNLDSLPLVDTHSKR	VIM	P08670	VIME_HUMA	Unmodified	3309100	2109200	3479100	1106200	1092900	1089300	0	0	0
ETPAATEAPSSTPK	BASP1	P80723	BASP1_HUM	Unmodified	0	0	0	488170	452260	0	0	0	0
ETPALTINR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Unmodified	6642600	6452000	6350100	220580	213100	0	69183	0	85873
ETPHSPGVEDAPIAK	LIMA1; LIMA1; LIM	Q9UHB6; F8VS07	LIMA1_HUM	Unmodified	2059400	1727500	1066500	442810	453670	463220	0	0	0
ETPLPIDPSMFPTWPAK	CDK11A; CDK11B; (	Q9UQ88; P21127;	CD11A_HUM	Oxidation (M)	784390	604920	814350	0	0	0	0	0	0
ETPPDALILESPFTNIR	ABHD12; ABHD12; ;	Q8N2K0; A0A5F9	ABD12_HUM	Unmodified	1868300	1111700	1277800	0	0	0	0	0	0
ETPPDALILESPFTNIREEAK	ABHD12; ABHD12; ;	Q8N2K0; A0A5F9	ABD12_HUM	Unmodified	3840300	3096200	3426600	0	0	0	0	0	0
ETPPRFAQHGTFEYEYSQR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	Unmodified	371740	455920	726180	0	150410	80837	0	0	0
ETQALILAPTR	EIF4A3	P38919	IF4A3_HUMA	Unmodified	2572200	2202000	2965800	0	15905	16904	0	0	0
ETQSPEQVKSEK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	204450	348180	332350	0	0	0	0	0	0
ETQSQLETER	DSP	P15924	DESP_HUMA	Unmodified	7097900	6214300	7309400	353890	435060	280480	0	0	0
ETSAATLSPGASSR	TEX264; TEX264	Q9Y6I9; A0A087	TX264_HUM	Unmodified	547160	0	1460900	0	0	154420	0	0	0
ETSQAFAK	LPGAT1	Q92604	LGAT1_HUM	Unmodified	731720	924080	788000	0	0	43159	0	0	0
ETSSDVALASHILTALR	DFFA	O00273	DFFA_HUMA	Unmodified	4676300	2334500	3031700	0	0	0	0	0	0
ETTDTDTADQVIASFK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	2738100	3299100	3939800	83255	70041	0	0	0	0
ETTTGYYKDIVENICGR	TMPO	P42166	LAP2A_HUM	Unmodified	0	1532600	1661200	0	0	0	0	0	0
ETVDQVEELR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	557260	927000	501000	0	0	43543	0	0	0
ETVDQVEELRR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1216000	909190	924100	0	0	0	0	0	0
ETVEEQASTTER	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B_HUM	Unmodified	1240200	1274900	466710	0	0	0	0	0	0
ETVFTKSPYQEFTDHLVK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Unmodified	1467000	1775200	1605700	0	0	0	0	0	0
ETVLQQKETILSQK	NPTX1	Q15818	NPTX1_HUM	Unmodified	422050	506860	591430	0	0	0	0	0	0
ETVSEESNVLCLSK	EEF2	P13639	EF2_HUMAN	Unmodified	4266100	5408500	4160100	219370	230940	175480	0	0	0
ETVSQRPGATVPTDFATFPSSAFLR	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1_HUM	Unmodified	928070	1375200	606360	0	0	0	0	0	0
ETVVEVPQVTWEDIGGLEDVKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	11718000	6689700	14511000	0	0	0	0	0	0
ETWLSENQR	SPTBN2; SPTBN1; S	O15020; Q01082;	SPTN2_HUM	Unmodified	588100	806590	699520	53005	0	0	0	0	0
EVADEVTRPRPSGEEVLQDIQVMLK	MCM5; MCM5	P33992; B1AHA9	MCM5_HUM	Oxidation (M)	1059600	0	1541900	0	0	0	0	0	0
EVAELTR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	193970	244150	200440	0	9578.1	0	0	0	0
EVAKFEAERSK	ITGB6; ITGB6; ITGB	P18564; A0A087	ITB6_HUMA	Methyl (KR)	387660	0	245470	41041	0	0	0	0	0
EVAKPSPGEGEVLLK	TP53I3; TP53I3	Q53FA7; H7BZH	QORX_HUM	Unmodified	7421100	5632700	6030600	0	0	0	0	0	0
EVAQTADAR	PLCG1; PLCG1; PLC	P19174; A0A0D9	PLCG1_HUM	Unmodified	439170	0	232610	0	0	49426	0	0	0
EVCFACVDGKEFR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1_HUMA	Unmodified	0	0	436300	0	42113	33175	0	0	0
EVCGFAPYER	RPL36; RPL36	Q9Y3U8; J3QSB5	RL36_HUMA	Unmodified	1878800	2190200	1579100	0	0	0	0	0	0
EVCLASER	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	Unmodified	2342600	2437000	2033000	0	0	19881	0	0	0
EVDDLEQWIAER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	1063300	1473700	1116500	0	0	0	0	0	0
EVDDLGPEVGDIK	DHX15	O43143	DHX15_HUM	Unmodified	8812400	6348400	6862400	347430	294930	267310	0	0	0
EVDDLGPEVGDIKIIPLYSTLPPQQQQR	DHX15	O43143	DHX15_HUM	Unmodified	4108100	3242700	4126900	0	0	0	0	0	0
EVDEQMLAQSK	TUBB6; TUBB3; N/A	Q9BUF5; Q13509	TBB6_HUMA	Oxidation (M)	0	0	1444100	34662	36021	51427	0	0	0
EVDEQMLNVQNK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Oxidation (M)	6314800	6152600	6334500	0	220750	0	0	0	0
EVDEQMLNVQNK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Oxidation (M);Deai	1646200	1593700	1204500	0	0	0	0	0	0
EVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Methyl (KR);4 Dea	1804400	0	0	0	0	0	0	0	0
EVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Oxidation (M);2 De	0	1704800	0	0	0	0	0	0	0
EVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Methyl (KR);3 Dea	0	0	2106000	0	0	0	0	0	0
EVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Oxidation (M);3 De	2787800	0	2780600	0	0	0	0	0	0
EVDGEGKPYYEVR	DPP3; DPP3; DPP3;	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	5137100	1638600	3130800	32758	295490	161870	0	0	0
EVDGLDVSK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	381230	341000	344250	0	0	0	0	0	0
EVDIGIPDATGR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	15539000	14362000	21214000	259870	247070	229380	0	0	0
EVDLKDYEDQQKQLEQVIAK	FGA; FGA	P02671; A0A087	FIBA_HUMA	Unmodified	4970500	3186600	0	0	0	0	24701	0	0
EVDPLVYNMSHEDPGNVSYSEIGGLSEQIR	PSMC6; PSMC6; PS	P62333; A0A087	PRS10_HUM	Oxidation (M)	0	1514400	0	0	0	0	0	0	0
EVDPQGLR	DNM3; DNM2; DNM	Q9UQ16; P50570;	DYN3_HUMA	Unmodified	3574500	2810400	2666800	316380	301600	445980	0	0	22331
EVDPQGQR	DNM1; DNM1; DNM	Q05193; A0A0D9	DYN1_HUMA	Unmodified	590510	528100	679880	12077	31371	0	0	0	0
EVDVEKVSAFENPYVDAIK	GNAQ; GNAQ	P50148; B1AM21	GNAQ_HUM	Unmodified	3759300	0	0	0	0	0	0	0	0
EVDVFSPLR	CNNM3	Q8NE01	CNNM3_HUM	Unmodified	587530	542570	438290	0	0	0	0	0	7477.2
EVDYSGLR	CDV3; CDV3	Q9UKY7; H0Y8K	CDV3_HUMA	Unmodified	881770	1554500	1785800	0	0	0	37195	0	0
EVEAETKMEGLTALVR	N/A	N/A	N/A	Oxidation (M)	1874500	28795000	18785000	22397	0	0	59195	14209	0
EVEAVIPDHCIFASNTSALPISEIAAVSK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	Unmodified	792510	0	416890	0	0	0	0	0	0
EVEEDEYK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	4647200	4992100	4862800	75658	59999	70772	0	0	0
EVEEDEYKAFYK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	5513500	6949600	5699800	130170	191150	134290	0	0	0
EVEEDEYKAFYK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Methyl (KR)	1757900	1055400	2137300	0	0	0	0	0	0
EVEEEPGIHSLK	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Unmodified	0	1014400	731350	0	0	0	0	0	0
EVEELILTESK	API5; API5; API5	Q9BZZ5; G3V1C	API5_HUMA	Unmodified	3764000	3269700	493400	0	0	0	0	0	0
EVEEQHEVNEQLQAR	CGN	Q9P2M7	CING_HUMA	Unmodified	365920	0	507200	90960	81093	65799	0	0	0
EVEETDEMDQVELVDFDPNQER	DNAJA1	P31689	DNJA1_HUM	Oxidation (M)	2572600	0	1802200	0	0	0	0	0	0
EVEGDDVPESIMLEMK	HNRNPUL2; HNRNP	Q1KMD3; H3BQZ	HNRL2_HUM	2 Oxidation (M)	2057900	824780	1994300	0	35060	45643	0	0	0
EVEKMGAVFMDAPVSGGVGAAR	HIBADH; HIBADH	P31937; H7BZL2	3HIDH_HUM	2 Oxidation (M)	0	1602500	0	125980	223370	0	22128	13009	0
EVEMGPFK	CAND2; CAND1; CA	O75155; Q86VP6;	CAND2_HUM	Oxidation (M)	1383300	985210	1710300	26019	28159	29710	0	0	0
EVEPALELLEPIDQK	GDI1	P31150	GDIA_HUMA	Unmodified	1144900	1447700	857960	0	0	0	0	0	0
EVEPEPTEDKDLEADEEDTR	EIF2S2	P20042	IF2B_HUMA	Unmodified	4492900	4535500	3728500	129260	128340	124220	0	0	0
EVEQFDVATHLQTAPELVDR	UTP11	Q9Y3A2	UTP11_HUM	Unmodified	696870	0	0	0	0	0	0	0	0
EVEQFTQVAK	NDUFB10; NDUFB1	O96000; H3BPJ9	NDUBA_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EVESMGAHLNAYSTR	UQCRC1	P31930	QCR1_HUMA	Oxidation (M)	824610	1197200	1251100	55819	51798	82689	30281	0	0
EVESMGAHLNAYSTR	UQCRC1	P31930	QCR1_HUMA	Oxidation (M);Deai	3374100	3700300	2397800	40258	0	46153	0	0	0
EVEVEVESMDK	SND1	Q7KZF4	SND1_HUMA	Oxidation (M)	638970	673990	620980	67980	40802	0	0	0	0
EVFEDAAEIR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	48121000	39662000	42744000	0	243990	393870	0	0	0
EVFEMATR	RHOA; RHOC; RHO	P61586; P08134;	RHOA_HUM	Oxidation (M)	4979500	0	6452900	522390	328180	455760	0	0	0
EVFLPSTPGLGMHVEVK	TMED4; TMED4	Q7Z7H5; F8W7F7	TMED4_HUM	Oxidation (M)	1307800	824590	2499300	0	16328	20752	0	0	0
EVFLVMPTGGGK	RECQL; RECQL; RE	P46063; F8WA66	RECQ1_HUM	Oxidation (M)	1515000	1650200	1333400	47035	22166	20307	0	0	0
EVFPVLAAK	PDCD6IP; PDCD6IP	Q8WUM4; F8WD	PDC6I_HUM	Unmodified	2955900	1979800	675470	66699	49433	54488	0	0	0
EVFSMAGVVVR	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Oxidation (M)	935770	579150	636850	0	0	0	0	0	0
EVGEAFTILSDPK	DNAJC7; DNAJC7; I	Q99615; A0A6B4	DNJC7_HUM	Unmodified	1365600	808810	1035900	0	18285	20798	0	0	0
EVGELQGR	MYH14; MYH14	Q7Z406; M0QY43	MYH14_HUM	Unmodified	4510600	4753600	2555400	97828	0	94010	0	0	0
EVGKDVSDEKLRDYIWNTLNSGR	CS; CS; CS	O75390; A0A0C4	CISY_HUMA	Unmodified	0	861980	672920	0	0	0	0	0	0
EVGSHFDDFVTNLIEK	SOAT1; SOAT1	P35610; B1APM4	SOAT1_HUM	Unmodified	866520	1181300	1030800	0	0	0	0	0	0
EVGSPPLDPTER	KIFBP; KIFBP; KIFB	Q96EK5; A0A6Q8	KBP_HUMAN	Unmodified	592420	434150	660990	38401	49716	45991	0	0	0
EVGTPHGIILDSVDAAFICPGSSR	HPX	P02790	HEMO_HUM	Unmodified	3666900	3493700	3978700	0	0	0	0	0	0
EVGVYEALKDDSWLK	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC_HUM	Unmodified	1309700	1298500	1241800	0	0	0	0	0	0
EVIAEEEPPTVTEPLPENR	AKAP12	Q02952	AKA12_HUM	Unmodified	0	0	0	145820	126940	170950	0	0	0
EVIAGPLLR	NXN; NXN	Q6DKJ4; I3L4V6	NXN_HUMA	Unmodified	546550	689720	893150	0	0	0	0	0	0
EVIDFAR	MRPL43; MRPL43; ;	Q8N983; H0Y6Y8	RM43_HUMA	Unmodified	940680	1258800	1491100	92833	40416	84544	0	0	0
EVIDLLKPDQVEGIQK	KTN1	Q86UP2	KTN1_HUMA	Unmodified	10316000	8218500	10732000	410060	314050	176430	0	41510	0
EVIDLLKPDQVEGIQK	KTN1	Q86UP2	KTN1_HUMA	Methyl (KR)	725110	656690	497580	0	0	0	0	0	0
EVIELPLTNPELFQR	PSMC6; PSMC6; PS	P62333; A0A087	PRS10_HUM	Unmodified	6977200	6741600	4989700	0	0	0	0	0	9228.7
EVIELPVKHPELFEALGIAQPK	PSMC5; PSMC5; PS	P62195; J3QQM1	PRS8_HUMA	Unmodified	1322800	708720	1211800	0	0	0	0	0	0
EVILPER	GUSB; GUSB; GUSB	P08236; F8WBK6	BGLR_HUMA	Unmodified	1069200	1405600	915360	0	0	0	0	0	0
EVITAQDTVIK	SMC2	O95347	SMC2_HUMA	Unmodified	1356700	1259800	860750	0	0	0	0	0	0
EVITAVRK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	695140	661990	972820	423880	392960	374060	0	75822	0
EVKVLLDQLR	APMAP; APMAP	Q9HDC9; H0Y51	APMAP_HUM	Methyl (KR)	1404800	0	999950	0	0	0	0	0	0
EVLADFQR	CRTAP; CRTAP	O75718; C9JP16	CRTAP_HUM	Unmodified	1485500	0	709320	0	0	0	0	0	0
EVLASDLVVK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM_HUMA	Unmodified	6267600	4883600	4627700	101830	100160	118900	0	0	0
EVLDQVER	SRC	P12931	SRC_HUMAN	Unmodified	4822800	4145600	0	0	0	0	0	0	0
EVLEALGEVMVSRPR	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1_HUM	Oxidation (M)	758170	705290	735200	0	0	0	0	0	0
EVLEKQPVLSQTEAR	PSMB4	P28070	PSB4_HUMA	Unmodified	4210200	4664100	4256000	0	0	70052	0	0	0
EVLEKQPVLSQTEAR	PSMB4	P28070	PSB4_HUMA	Methyl (KR)	530400	849790	611530	0	0	0	0	0	0
EVLGEHIVPSDQQQIVR	EIF1AD; EIF1AD; EI	Q8N9N8; E9PLJ6;	EIF1A_HUMA	Unmodified	0	1422000	1493000	33067	0	0	0	0	0
EVLGSATR	UAP1	Q16222	UAP1_HUMA	Unmodified	3476500	4662500	4471500	0	0	0	0	0	0
EVLHGNQR	RPL10A	P62906	RL10A_HUM	Deamidation (N)	660230	245810	547990	87646	108240	118090	74115	112920	106270
EVLLASQKTDAEATDTEATET	MRPS16	Q9Y3D3	RT16_HUMA	Unmodified	412200	835750	509330	88748	18087	80951	0	0	0
EVLLLAHNLPQNR	CEACAM6; N/A	P40199; M0QYM	CEAM6_HUM	Unmodified	3805500	3374200	3464100	0	0	0	0	0	0
EVLLLAHNLPQNR	CEACAM6; N/A	P40199; M0QYM	CEAM6_HUM	Deamidation (N)	3018900	535690	3675400	0	0	0	0	0	0
EVLNGLGK	MAOA	P21397	AOFA_HUMA	Deamidation (N)	1501200	1587500	1942900	45565	61808	47672	0	0	0
EVLNGLGKVTEKDIWVQEPESK	MAOA	P21397	AOFA_HUMA	Deamidation (N)	3319400	2115800	418920	0	0	0	0	0	0

EVLPGEIVEISR	PPAT	Q06203	PUR1_HUMA	Unmodified	916930	1007700	1002200	0	0	0	0	0	0
EVLPSTR	SND1	Q7KZF4	SND1_HUMA	Unmodified	813320	813300	532730	0	36563	34904	0	0	0
EVLQLQEEVK	MRPS26	Q9BYN8	RT26_HUMA	Unmodified	605200	831990	766660	0	0	0	0	0	0
EVLQLQEEVKNFITR	MRPS26	Q9BYN8	RT26_HUMA	Unmodified	2815800	0	1960200	0	0	0	0	0	0
EVMLILIR	SF3B1	O75533	SF3B1_HUM	Oxidation (M)	664000	238400	315980	12821	0	7816.5	0	0	0
EVMLVGIGDKIR	ATP5F1C	P36542	ATPG_HUMA	Oxidation (M)	0	1172800	1167700	0	0	0	0	0	0
EVMPLLLAYLK	IPO4; IPO4	Q8TEX9; H0YN14	IPO4_HUMA	Oxidation (M)	764410	574850	494660	0	0	0	0	0	0
EVMQEVAQLSQFDEELYK	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Oxidation (M)	2754100	1780900	2203500	0	0	0	0	0	0
EVMQEVAQLSQFDEELYKVIGK	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Oxidation (M)	1931600	0	696830	0	0	0	0	0	0
EVMVDDRLVTMQIWDTAGQER	RAB7A; RAB7A; RA	P51149; A0A6Q8I	RAB7A_HUM	2 Oxidation (M)	882380	616910	866990	0	0	0	0	0	0
EVNKFQMAYSNLLR	SRP14	P37108	SRP14_HUM	Oxidation (M)	807650	1138700	706340	0	0	0	0	0	0
EVPEKLPEAADFGTTSSLHFVHMR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1_HUM	Oxidation (M)	1976800	1245400	1434500	0	0	0	0	0	0
EVPIPEHIDIYHLTR	ABCF2; ABCF2; ABC	Q9UG63; C9JZV3	ABCF2_HUM	Unmodified	849880	1278600	808130	0	0	0	0	0	0
EVPISLEVSQDRR	SYNM; SYNM; SYN1	O15061; A0A075I	SYNEM_HUM	Unmodified	0	0	0	0	0	0	65416	85550	96893
EVPMVVVPPVGAK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1_HUM	Oxidation (M)	931260	937010	893770	148050	132050	132420	0	0	12673
EVPREALAFIIR	PES1; PES1; PES1	O00541; B3KXD6	PESC_HUMA	Unmodified	177920	189180	303250	0	0	0	0	0	0
EVPVIFIHPLNTGLFR	RALGAPB; RALGAI	Q86X10; A2A2F0	RLGPB_HUM	Unmodified	296480	175770	165730	0	0	0	0	0	0
EVQDGIAPR	USP5	P45974	UBP5_HUMA	Unmodified	3146700	536720	1865200	247290	274540	233090	0	0	0
EVQEFYK	CD9; CD9; CD9; CD9	P21926; A0A7I2V	CD9_HUMAN	Unmodified	0	0	1297700	0	0	0	0	0	0
EVQLAQIFEPLSR	PDS5A; PDS5A	Q29RF7; H0Y9L6	PDS5A_HUM	Unmodified	357770	494970	231000	0	0	0	0	0	0
EVQMGDFVR	FKBP10; FKBP10; FI	Q96AY3; K7ELI6	FKB10_HUM	Oxidation (M)	1439300	1860900	1753800	110750	0	73753	0	0	0
EVQMNFLNQLTSVFNPR	UBR4	Q5T4S7	UBR4_HUMA	Oxidation (M)	0	363600	541940	0	0	0	0	0	0
EVQQGEEFER	AK1; AK1; AK1	P00568; H0YID2;	KAD1_HUMA	Unmodified	4631400	4339900	4482300	109330	0	0	0	0	0
EVQQGEEFERR	AK1; AK1; AK1	P00568; H0YID2;	KAD1_HUMA	Unmodified	6391100	5934800	6896400	145120	159460	76819	0	0	0
EVQQLQGK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	0	982430	1919400	0	188680	143570	0	0	0
EVQTNDLK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	6231500	7951600	0	88413	112040	63203	0	0	0
EVQTNDLK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Deamidation (N)	0	0	1612400	0	0	0	0	0	0
EVQTNDLKEVVNK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	1700300	2210300	1357600	83833	45642	0	0	0	0
EVQTNDLKEVVNK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Deamidation (N)	3879400	3947900	3996800	73660	10662	99435	0	0	0
EVQVAEEDNEQIRK	N/A	N/A	N/A	2 Methyl (KR)	3804900	1883600	2857300	25442	0	0	0	0	0
EVQYTLEMIK	FNTA; FNTA; FNTA	P49354; B3KVN2	FNTA_HUMA	Oxidation (M)	793640	551130	575040	0	0	0	0	14560	0
EVSDGIIAPGYEEEALTILSK	ATIC	P31939	PUR9_HUMA	Unmodified	5647000	2299100	3847500	0	0	0	0	0	0
EVSEEHNLLPQPPR	POLD2; POLD2; POI	P49005; C9JZD2;	DPOD2_HUM	Unmodified	192730	993870	1902500	0	0	31272	0	0	0
EVSFQSTGESEWK	C1QBP; C1QBP; C1(	Q07021; I3L3Q7;	C1QBP_HUM	Unmodified	1787900	2037600	1440300	0	0	0	0	0	0
EVSGIKAAYEAELGDAR	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Unmodified	742630	607330	1134100	101890	79805	72156	0	0	0
EVSHLNALEER	POLD1; POLD1; POI	P28340; A0A087	DPOD1_HUM	Unmodified	0	410830	0	52193	0	0	0	0	0
EVSQPDWTPPPEVTLVLTK	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Unmodified	2531100	2405800	0	0	0	0	0	0	0
EVSSATNALR	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA_HUM	Unmodified	2964100	2758100	3316800	0	0	0	0	0	0
EVSSATNALR	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA_HUM	Deamidation (N)	664150	112270	1183900	0	0	0	0	0	0
EVSSSFDHVIK	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2_HUM	Unmodified	541280	1073700	681830	0	0	0	0	0	0
EVTAAQVAR	CNOT1	A5YKK6	CNOT1_HUM	Unmodified	3081100	2198900	2759200	27526	32163	29791	0	0	0
EVTDEIVKEFMTPR	WARS1	P23381	SYWC_HUMA	Oxidation (M)	0	2701600	816430	0	0	0	0	0	0
EVTDKEQEFAAR	EPB41L3; EPB41L3;	Q9Y2J2; A0A0A0	E41L3_HUM	Unmodified	0	416950	0	0	397730	216910	0	0	0
EVTDTQMPLVAPVILPEMYK	IPO9	Q96P70	IPO9_HUMA	2 Oxidation (M)	4020800	4757400	3818800	26890	21445	0	0	0	0
EVTEPLNLNPAK	CMAS; CMAS	Q8NFW8; F5GYN	NEUA_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
EVTEPLNLNPAK	CMAS; CMAS	Q8NFW8; F5GYN	NEUA_HUM	Unmodified	2175400	3639200	2356100	213510	249510	259850	0	0	0
EVTEPLNLNPAKRPR	CMAS; CMAS	Q8NFW8; F5GYN	NEUA_HUM	Unmodified	1136700	0	941900	123530	109610	121680	0	0	0
EVTFLEASR	RAB4B; RAB4A; RA	P61018; P20338;	RAB4B_HUM	Unmodified	0	0	25121000	0	0	0	0	0	0
EVTFVPGLYK	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B_HUM	Unmodified	4247000	5035500	4809600	36931	0	48337	0	0	0
EVTLPLPRPQDLK	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Unmodified	310210	0	464130	235740	174500	167350	0	11602	0
EVTPEGLQMVK	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Oxidation (M)	6008600	7062300	7045900	0	0	102680	0	0	0
EVTPEGLQMVKK	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Oxidation (M)	1003300	920020	946720	0	0	0	0	0	0
EVTWEVLEGEVEK	SSB	P05455	LA_HUMAN	Unmodified	1248900	1143700	1375500	0	0	0	0	0	0
EVTWEVLEGEVEKEALKK	SSB	P05455	LA_HUMAN	Unmodified	0	1198400	0	0	0	0	0	0	0
EVVAGSHELGQDYEHVTMLQER	SPTBN1	Q01082	SPTB2_HUM	Oxidation (M)	7360100	6519300	6377700	332390	215730	91180	0	0	0
EVVDYIIFGTVIQEVK	HADHB; HADHB; H	P55084; C9JEY0;	ECHB_HUM	Unmodified	259800	0	91421	0	0	0	0	0	0
EVVEEAENGR	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA_HUM	Deamidation (N)	44130000	49160000	48632000	50413	0	57798	0	0	0
EVVETPLLHPER	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	3829100	3315200	3007600	107400	99521	102140	0	0	0
EVVNKDVLDVYIEHR	MCM7	P33993	MCM7_HUM	Unmodified	634520	1672100	0	0	16111	34121	0	0	0
EVVNKDVLDVYIEHRLMMEQR	MCM7	P33993	MCM7_HUM	2 Oxidation (M)	0	1653300	1842400	0	0	0	0	0	0
EVVQNFAK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	27687000	24401000	23074000	0	0	0	0	0	0
EVVQNFAK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Deamidation (N)	2099200	0	2092000	0	0	0	0	0	0
EVVQNFAKEEVISDR	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Methyl (KR)	1289000	3017100	0	0	0	0	0	0	0
EVVVYAPLSK	HELLS; HELLS; HEL	Q9NRZ9; A0A0B	HELLS_HUM	Unmodified	537630	749130	770420	0	0	0	0	0	0
EVWDYVFFK	LARS1; LARS1; LAR	Q9P2J5; A0A6BP	SYLC_HUMA	Unmodified	373800	380900	346740	0	0	0	0	0	0
EVWEELDGLDPNRFNPK	NUCB1; NUCB1	Q02818; H7BZI1	NUCB1_HUM	Unmodified	281770	0	320200	0	0	0	0	0	0
EVYELLDSPGK	PAICS; PAICS	P22234; E9PBS1	PUR6_HUMA	Unmodified	4806700	3217600	3577800	30846	0	43333	0	0	0
EVYQQQQYGSGGR	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Unmodified	16140000	16589000	16589000	429010	279340	311090	0	0	0
EVYQQQQYGSGGRGNR	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Methyl (KR);Deam	2088300	2404800	2078900	0	19465	0	0	0	0
EVYRQQQQQQK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	3412400	1583300	2982800	355980	404550	384930	0	0	0
EWGSGSDTLR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	1451700	1034400	1062800	0	0	0	0	0	0
EWQELDDAEK	PSMD2	Q13200	PSMD2_HUM	Unmodified	723030	639480	905820	0	0	0	0	0	0
EWQELDDAEKVQREPLLTLVK	PSMD2	Q13200	PSMD2_HUM	Unmodified	795450	1015400	523510	0	0	0	0	0	0
EWQHEEFYR	TRAP1; TRAP1; TR/	Q12931; I3L0K7;	TRAP1_HUM	Unmodified	582900	790810	647360	0	0	0	0	0	0
EWSGLLEELAR	PFKP; PFKP; PFKP;	Q01813; A0A7I2V	PFKAP_HUM	Unmodified	740760	490010	1064300	0	0	0	0	0	0
EWVSMAGPR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Oxidation (M)	2314300	2086600	2415500	0	0	0	0	0	0
EWYGYHFPELVK	NOP56; NOP56; NOP	O00567; Q5JXT2;	NOP56_HUM	Unmodified	699880	0	606990	0	0	0	0	0	0
EYAEDDNIYQQK	OTUB1; OTUB1; OTI	Q96FW1; J3KR44	OTUB1_HUM	Unmodified	842360	741380	927160	0	0	0	0	0	0
EYDRLLEEHAK	BCAP31; BCAP31	P51572; A0A2R8	BAP31_HUM	Unmodified	899040	904090	1140500	157410	81565	94113	0	0	0
EYEAALNSK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
EYEAALNSK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	1284100	1179600	1345300	0	0	0	0	0	0
EYEAALNSKDAALATALGDKK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	1588100	2122400	2647800	0	18848	11252	0	0	0
EYELER	KIAA1109; KIAA110	Q2LD37; A0A7P0	K1109_HUM	Unmodified	0	1126500	543520	0	0	0	0	0	0
EYFADMER	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B_HUM	Oxidation (M)	2022200	1874600	1460200	57890	0	43846	0	0	0
EYFGAFGEIENIELPMDTK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Oxidation (M)	664160	888810	1090400	0	0	0	0	0	0
EYFGEFGEIEAIELPMDPK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Oxidation (M)	5135900	1927700	3625100	0	0	0	0	0	0
EYFGGFGEVESIELPMDNK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Oxidation (M)	5146400	3625700	4929100	13090	0	0	0	0	0
EYFQKVNQ	PRDX3	P30048	PRDX3_HUM	Methyl (KR);Deam	354270	0	0	588600	518770	626830	0	117780	0
EYFQKVNQ	PRDX3	P30048	PRDX3_HUM	Methyl (KR)	1365500	975900	1198300	0	0	100970	0	40036	0
EYFQKVNQ	PRDX3	P30048	PRDX3_HUM	Unmodified	1156500	1431400	1338200	524200	300330	420030	0	0	0
EYFSWEGAFQHVGK	EEF1G	P26641	EF1G_HUMA	Unmodified	15842000	11923000	11743000	0	0	0	0	0	0
EYFTFPASK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUMA	Unmodified	1003300	807010	936060	131910	99204	138790	0	12864	12807
EYGMIYLGK	SND1	Q7KZF4	SND1_HUMA	Oxidation (M)	1378600	1361100	1130500	137030	0	88354	0	0	0
EYHTEKLVTSKGDKELR	FGA	P02671	FIBA_HUMA	Unmodified	863490	604700	771670	0	0	0	0	0	0
EYHVQFFSNQPER	NSD3	Q9BZ95	NSD3_HUMA	Unmodified	1281200	1489500	1172000	0	0	0	0	0	0
EYIQILER	NUP98; NUP98; NUI	P52948; H7C3P6;	NUP98_HUM	Unmodified	863830	695780	799580	26554	24777	0	0	0	0
EYLLQYNDPNRR	NDUFB4; NDUFB4; I	O95168; F2Z3P9;	NDUB4_HUM	Unmodified	1588800	1823400	2485100	0	27015	0	0	0	0
EYLQQLR	STARD9	Q9P2P6	STAR9_HUM	Unmodified	1017600	1385500	825050	0	11781	0	0	0	0
EYPFILDAFQR	MTREX	P42285	MTREX_HUM	Unmodified	2675800	2232800	2452800	0	0	0	0	0	0
EYQDLLNVK	INA; GFAP; NEFM; I	Q16352; P14136;	AINX_HUMA	Unmodified	9086600	9325600	9256000	1308400	1528000	1462300	0	21495	0
EYQLSDSAK	GNA11; GNA14	P29992; O95837	GNA11_HUM	Unmodified	2913800	2330500	2681200	77487	67101	82438	0	0	0
EYQLSDSTK	GNAQ; GNAQ	P50148; B1AM21	GNAQ_HUM	Unmodified	0	1931100	1452100	69297	57590	0	0	0	0
EYRDAQEFGADVR	BRD4; BRD4	O60885; M0QZD6	BRD4_HUMA	Unmodified	1803000	1639000	1539600	34038	0	39298	0	0	0
EYREKIETELR	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z_HUM	Unmodified	916700	863090	668130	52839	0	0	0	0	0
EYRQMVETELK	YWHAE; YWHAE	P62258; K7EIT4	1433E_HUM	Oxidation (M)	6449000	4150300	6253000	16516	25254	24736	0	0	0
EYSSELNAPSQESDSHPR	RBM25; RBM25	P49756; E9PQU5	RBM25_HUM	Unmodified	2041900	1715700	1584000	0	0	64256	0	0	0
EYSVEAEER	RIOX2; RIOX2	Q8IUF8; H0Y9L8	RIOX2_HUM	Unmodified	821010	1023000	556180	125330	192460	117010	0	0	0
EYTAAVEAK	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	3495100	3227000	0	262070	211480	210510	0	0	0
EYTAGREADDIVNWLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	20291000	19428000	13487000	0	0	0	0	0	0
EYTAGREADDIVNWLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	551940	456740	541710	0	0	0	0	0	0
EYTDVYPEIIER	MAGED2; MAGED1	Q9UNF1; Q9Y5V	MAGD2_HUM	Unmodified	941280	1416800	1237800	0	0	0	0	0	0
EYTINIHK	RPL31; RPL31; RPL:	P62899; H7C2W9	RL31_HUMA	Unmodified	490680	753030	1982900	0	16968	0	0	0	0
EYTINIHKR	RPL31; RPL31; RPL:	P62899; H7C2W9	RL31_HUMA	Unmodified	724270	468380	743600	0	0	0	0	0	0
EYTKYHERLLTGLKGSK	NF1; NF1	P21359; H0Y465	NF1_HUMAN	2 Methyl (KR)	143960	0	134950	0	0	0	0	0	0
EYTVTEPERDGASPSR	NID1	P14543	NID1_HUMA	Unmodified	1770400	1836400	1938100	210950	200250	216880	0	0	0
EYVESQLQR	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	853310	819810	858080	0	0	0	0	0	0
EYWMDPEGEMKPGR	SUB1	P53999	TCP4_HUMA	2 Oxidation (M)	7007400	7019500	8838400	0	0	125040	0	0	0
EYWMDPEGEMKPGRK	SUB1	P53999	TCP4_HUMA	2 Oxidation (M)	2899500	2610700	2463900	50923	0	0	0	0	0
EYYDHLPELK	PYGB; PYGB	P11216; H0Y4Z6	PYGB_HUMA	Unmodified	1835400	1717500	1592100	59075	0	20601	0	0	0
FAAATGATPIAGR	RPSA; RPSA; RPSA;	P08865; A0A0C4I	RSSA_HUMA	Unmodified	60500000	53558000	54184000	616420	741440	771770	40995	32922	41401
FAAAYCR	PDIA1	P08559	PDIA1_HUM	Unmodified	1092700	1078600	0	67010	71740	81581	0	0	0
FAADAVKLER	TALDO1	P37837	TALDO_HUM	Unmodified	3383800	3259900	2644700	152760	166030	179060	0	0	0
FAADIISVLAMTMSGER	PSMD2; PSMD2; PSI	Q13200; H7C2Q3	PSMD2_HUM	2 Oxidation (M)	1578500	1383700	1562500	0	0	0	0	0	0
FAAFFGNVPIFHIPGR	DHX38; DHX38	Q92620; J3KTG2	PRP16_HUM	Unmodified	50975	37938	104730	0	0	0	0	0	0
FAALEKPTTLELK	SPTB; SPTB	P11277; H0YJE6	SPTB1_HUM	Unmodified	781770	914730	935480	22851	10971	10962	0	0	0
FAALEKPTTLELKER	SPTB; SPTB	P11277; H0YJE6	SPTB1_HUM	Unmodified	530710	1774700	1046100	16017	0	41257	0	0	0
FAALEQPEVER	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	1478900	0	1195000	0	0	0	0	0	0
FAANPNQNKNVALLSQLYHSPAR	ELAVL1	Q15717	ELAV1_HUM	Unmodified	1605800	1427400	1269600	0	0	0	0	0	0
FAANPNQNKNVALLSQLYHSPAR	ELAVL1	Q15717	ELAV1_HUM	Deamidation (N)	8289600	6563000	5116100	0	0	0	0	0	0
FAANPNQNKNVALLSQLYHSPAR	ELAVL1	Q15717	ELAV1_HUM	2 Deamidation (N)	1675100	0	861890	0	0	0	0	0	0
FAAQNLHQNLIR	ILKAP; ILKAP	Q9H0C8; E9PC05	ILKAP_HUM	Unmodified	1561900	1476000	1737000	0	26908	0	0	0	0
FAATTVEEILAK	TNKS1BP1; TNKS1B	Q9C0C2; E9PKK(	TB182_HUM	Unmodified	0	0	1380400	0	0	0	0	0	0

FACFER	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP_HUM	Unmodified	2226600	746160	2784800	0	0	0	0	0
FACHSASLTVR	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUM	Unmodified	1813800	0	1022000	0	0	50824	0	0
FADEFNK	BPHL	Q86WA6	BPHL_HUMA	Unmodified	604570	1237000	1009800	0	21432	57498	0	0
FADEFNKLAEDFLQ	BPHL	Q86WA6	BPHL_HUMA	Deamidation (N)	307310	201360	352020	0	0	0	0	0
FADEGTVVK	UBR7; UBR7; UBR7;	Q8N806; H0YJM2	UBR7_HUMA	Unmodified	1570200	806890	1607000	0	0	0	0	0
FADEGTVVKREDIQQFFEEFQSK	UBR7; UBR7; UBR7	Q8N806; H0YJM2	UBR7_HUMA	Unmodified	1381700	0	1519400	0	0	0	0	0
FADEHVPGSPFTVK	FLNB; FLNB; FLNB	O75369; A0A0C4	FLNB_HUMA	Unmodified	7037000	5590900	4086400	412920	422520	461010	9007.5	57711
FADFTVYR	AATF; AATF; AATF;	Q9NY61; A0A087	AATF_HUMA	Unmodified	1088200	865220	508920	15377	0	13792	0	0
FADGEVVR	LBR; LBR; LBR; LBI	Q14739; C9JES9;	LBR_HUMAN	Unmodified	366340	829880	630260	12805	0	0	0	0
FADLSEAANR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	2688200	2323400	2809700	1597900	1620600	1570400	20965	41774
FADLSEAANRNNDALR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	2 Deamidation (N)	7005000	6441800	4216500	4498200	4648800	4255400	27275	141170
FADLSEAANRNNDALR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	5541400	4791100	6132500	4010300	3065200	4343200	110730	0
FADLSEAANRNNDALR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Deamidation (N)	6346900	4995800	6896300	3173300	2967900	3641900	106540	181240
FADLSEAANRNNDALR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	3 Deamidation (N)	0	659970	0	951350	392710	176520	0	0
FADLSEAANRNNDALRQAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	2 Deamidation (N)	2481200	0	0	1707900	2104300	1635700	0	262510
FADLSEAANRNNDALRQAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	0	0	0	454660	565100	462060	40905	50372
FADLSEAANRNNDALRQAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Deamidation (N)	2682800	1351000	864910	2593200	2438200	2378200	104250	256230
FADLSEAANRNNDALRQAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	3 Deamidation (N)	0	373930	0	0	142990	0	0	0
FADQHVPGSPFSVK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	9291200	7859900	10182000	225410	257200	229650	160990	33271
FADQHVPGSPFSVKVTGEGR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Methyl (KR)	0	568050	922940	0	0	0	46204	0
FADQHVPGSPFSVKVTGEGR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	991880	0	788660	81988	77098	65909	124210	0
FAEAFEAIPR	CCT8	P50990	TCPQ_HUMA	Unmodified	12310000	12568000	12378000	149790	166610	179050	0	0
FAEEDKK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	1271300	2310000	0	0	0	0	0	0
FAEFEDFPETSEPVWILGR	ATG4B; ATG4B; ATG	Q9Y4P1; F2Z2K8	ATG4B_HUM	Unmodified	278670	219480	0	0	0	0	0	0
FAEFQYLQPGPPR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2_HUM	Unmodified	4488800	5227600	5140000	135470	98230	112720	0	0
FAEFQYLQPGPPRR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2_HUM	Unmodified	2511600	0	992260	28594	41986	35214	0	0
FAEHVFR	NCALD; HPCA; HPC	P61601; P84074;	NCALD_HUM	Unmodified	0	567900	1145400	0	0	0	0	0
FAEIIEK	LAP3; LAP3	P28838; H0Y9Q1	AMPL_HUM	Unmodified	5949600	5591900	620830	113390	114290	233640	0	0
FAELAQIYAQR	NIT2; NIT2	Q9NQR4; H7C575	NIT2_HUMA	Unmodified	3332500	2437600	2890700	16524	25849	42795	0	0
FAELLDRPGAER	TONSL; TONSL	Q96HA7; A0A087	TONSL_HUM	Unmodified	1838400	1312200	1249400	0	0	0	0	0
FAEMEER	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M)	3450400	3465000	3437700	0	0	0	0	0
FAEQDAKEEANKAMGK	FKBP5	Q13451	FKBP5_HUM	Oxidation (M)	0	0	0	0	0	0	0	0
FAEQTLR	PLEC	Q15149	PLEC_HUMA	Unmodified	1982100	0	2395400	626040	451110	631910	0	20813
FAETQPK	EEF1G	P26641	EF1G_HUMA	Unmodified	17299000	17480000	23378000	1068900	979820	924190	0	0
FAEYGEIK	RBM8A; RBM8A	Q9Y5S9; A0A0J9	RBM8A_HUM	Unmodified	0	1330900	1211800	0	0	0	0	0
FAFDYATK	IDH3B; IDH3B; IDH3	O43837; A0A087	IDH3B_HUM	Unmodified	450120	444200	609160	0	0	0	0	0
FAFKEVEVQAK	FTSJ3	Q8IY81	SPB1_HUMA	Unmodified	1228200	1184700	824350	0	0	0	0	0
FAFQAEVNR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	23105000	15103000	17693000	419220	361520	243920	0	0
FAFQAEVNRMMK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	2 Oxidation (M)	1861100	1851800	2563000	74413	0	54307	0	0
FAFQAEVNRMMK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	2 Oxidation (M);De	810300	749120	812100	0	0	0	0	0
FAFVEFADQNSVPR	SREK1	Q8WXA9	SREK1_HUM	Deamidation (N)	3513500	2693300	2621000	23981	27163	27082	0	0
FAGDKGYLTKEDLR	S100A10	P60903	S10AA_HUM	Unmodified	1297500	1263000	0	449500	501790	313460	64402	0
FAGGDYTTTIEAFISASGR	EPRS1	P07814	SYEP_HUMA	Unmodified	608260	0	0	0	0	0	0	0
FAGHNFRNPSVL	ENO2; ENO2	P09104; F5H0C8	ENOG_HUM	Unmodified	19695000	23101000	19189000	320950	0	0	0	0
FAGHNFRNPSVL	ENO2; ENO2	P09104; F5H0C8	ENOG_HUM	Deamidation (N)	26379000	20294000	27708000	105600	114020	119830	46782	13875
FAGHSEAGGGSGDR	PAK4	O96013	PAK4_HUMA	Unmodified	350010	571980	632770	0	0	0	0	0
FAGLHFFNPVPVMK	HADH; HADH; HAD	Q16836; A0A1W2	HCDH_HUM	Oxidation (M)	0	1184500	1287200	0	0	0	0	0
FAGQMGIQLFETSAK	RAB35; RAB35	Q15286; F5H157	RAB35_HUM	Oxidation (M)	1222500	937780	1596000	0	53014	0	0	0
FAGSESAVFHGFFSMPEMR	ITGA3	P26006	ITA3_HUMA	2 Oxidation (M)	754840	626370	790650	0	0	0	0	0
FAGVVPPVAGPWLGVEWDNPER	TBCE; TBCE; TBCE;	Q15813; A0A2R8	TBCE_HUMA	Unmodified	124170	70777	108790	0	0	0	0	0
FAIGSQVSEHSIIK	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Unmodified	934550	905780	1004100	0	0	19449	0	9132.5
FAIGSQVSEHSIIKDFTK	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Unmodified	1390200	1427400	1183900	0	0	0	0	0
FAIQDISVEETSAK	ACTN2; ACTN4; AC	P35609; O43707;	ACTN2_HUM	Unmodified	4582000	5826700	6449100	0	0	166010	0	6787.3
FAIVMMGR	USP7; USP7	Q93009; A0A669	UBP7_HUMA	2 Oxidation (M)	0	0	0	0	0	0	0	0
FALEQQR	NOP14; NOP14	P78316; E9PFK5	NOP14_HUM	Unmodified	640940	489430	701450	28824	0	0	0	0
FALEVPGLR	TRMT1; TRMT1	Q9NXH9; K7EQQ	TRM1_HUMA	Unmodified	1893300	1534200	1428400	0	22832	0	0	0
FALGIFAINEAVESGDVGK	IQGAP1; IQGAP1;	P46940; A0A0J9	IQGA1_HUM	Unmodified	715760	146540	24396	0	0	0	0	0
FALGLSGGSLVSMLAR	PGLS; PGLS; PGLS	O95336; M0R0U3	6PGL_HUMA	Oxidation (M)	3189400	1695700	1789800	0	0	0	0	0
FALITWKGENVSGLQR	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	1268200	44211	278420	0	0	0	0	0
FALLKGSFSEQGINEFLR	PDIA6	Q15084	PDIA6_HUM	Unmodified	1153500	0	918290	0	0	0	0	0
FALQLGDPSTGLLIR	TRPT1; TRPT1; TRP	Q96TN4; F5H6B6	TRPT1_HUM	Unmodified	264540	177330	270170	0	0	0	0	0
FALSAMDMEQRDYDSR	GLS; GLS; GLS; GLS	O94925; B7Z509;	GLSK_HUMA	2 Oxidation (M)	408050	657010	418360	0	0	0	0	0
FALTVVR	TIGAR	Q9NQ88	TIGAR_HUM	Unmodified	1325900	1202400	1267800	99162	84820	107140	18868	0
FAMEPEEFDSDTLR	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Oxidation (M)	614750	834550	737980	0	0	0	0	0
FAMEPEEFDSDTLREFVTAFK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Oxidation (M)	518970	284780	426500	0	0	0	0	0
FAMEPEEFDSDTLREFVTAFKK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Oxidation (M)	0	0	1766500	0	0	0	0	0
FAMKEMGTPDVR	RPL31; RPL31; RPL	P62899; H7C2W9	RL31_HUMA	2 Oxidation (M)	0	2411500	2007300	0	0	0	0	0
FANIEEDTPSYHR	EFR3B; EFR3A; EFR	Q9Y2G0; Q14156	EFR3B_HUM	Unmodified	1789900	0	0	0	0	0	0	0
FANNPSQK	ELAVL2; ELAVL3; E	Q12926; Q14576;	ELAV2_HUM	Unmodified	0	0	722300	0	0	46530	0	32625
FANPFPAAVR	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB_HUMA	Unmodified	2232100	1453000	1751600	73380	75458	71065	0	0
FANSLPINDPLQTVYQLMSGR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Oxidation (M);Deai	457600	94057	340980	0	0	0	0	0
FANSLVGVQQQLQAFNTYR	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Unmodified	0	922840	1470900	0	0	0	0	0
FANYIDK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	1446300	1202800	1603700	235900	339850	396760	0	0
FAPPLVIKEDELR	OAT	P04181	OAT_HUMAN	Unmodified	3168100	3131000	3105500	0	0	0	0	0
FAPPLVIKEDELRESIEIINK	OAT	P04181	OAT_HUMAN	Unmodified	5381500	639080	0	0	0	0	0	0
FAPSPTGFLHLGGLR	EARS2; EARS2	Q5JPH6; H3BTB7	SYEM_HUM	Unmodified	722790	0	299550	0	0	0	0	0
FAQHGTFEYEYSQR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	Unmodified	108400000	91117000	109260000	3327000	2242600	1790600	377950	324870
FAQKDVLQIEEGPVK	SMAP2	A0A087WV97	A0A087WV97	Methyl (KR)	2081900	1588000	2901300	0	0	0	0	0
FAQLELSR	PRMT6; PRMT6	Q96LA8; A0A3B3	ANM6_HUM	Unmodified	6071800	4417700	4247600	110360	58777	124840	0	0
FAQMLEK	IDH2	P48735	IDHP_HUMA	Oxidation (M)	6063000	7388600	0	214190	247140	300370	0	0
FAQPGSFEYEYAMR	NONO; NONO; NON	Q15233; A0A7Z	NONO_HUM	Oxidation (M)	30105000	28479000	25554000	339670	307500	249170	20091	15850
FAQPGSFEYEYAMRWK	NONO; NONO; NON	Q15233; A0A7Z	NONO_HUM	Oxidation (M)	4905000	4521300	5218100	0	0	0	0	0
FAQPGTFEFEYASR	PSPC1	Q8WXF1	PSPC1_HUM	Unmodified	9540600	7324500	10229000	142620	133770	141330	13996	19919
FAQPGTFEFEYASRWK	PSPC1	Q8WXF1	PSPC1_HUM	Unmodified	522570	0	441110	0	0	0	0	0
FAQSAPGSPLSSQPVLITVQR	FOXK2	Q01167	FOXK2_HUM	Unmodified	2889200	2896800	2644700	0	24371	0	0	0
FAQVSSSNVVLK	C1orf198; C1orf198	Q9H425; E5RFY9	CA198_HUM	Unmodified	628280	657490	604640	0	0	36895	0	0
FAREEIIPVAAEYDKTGEYPVPLIR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	762190	2080300	0	0	0	0	0	0
FARLDIDPETITWQR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	957890	546620	688770	0	0	0	0	0
FASEIAGVDDLGTTGR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	1845800	2003900	1750700	71459	71808	92617	0	0
FASENDLPEWK	RANBP1; RANBP1;	P43487; C9JDM3;	RANG_HUM	Deamidation (N)	2045500	2990500	2238600	0	0	0	0	0
FASENDLPEWK	RANBP1; RANBP1;	P43487; C9JDM3;	RANG_HUM	Unmodified	1198000	1682500	1240200	0	0	0	0	0
FASENDLPEWKER	RANBP1; RANBP1;	P43487; C9JDM3;	RANG_HUM	Deamidation (N)	14987000	13245000	12129000	139710	94858	126170	17279	8465.7
FASENDLPEWKER	RANBP1; RANBP1;	P43487; C9JDM3;	RANG_HUM	Unmodified	10457000	9907900	10606000	92986	75385	77184	10374	0
FASFPDYLVIQIKK	USP5	P45974	UBP5_HUMA	Unmodified	861390	715460	599330	0	0	0	0	0
FASQQGMTAYGTR	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1_HUMA	Oxidation (M)	0	0	0	0	0	0	92477	127410
FASTVFPSDHIPSR	ECPAS; ECPAS; ECI	Q5VYK3; R4GMV	ECM29_HUM	Unmodified	656330	641040	659230	0	0	0	0	0
FASYLTFSPSEVK	ALDH18A1	P54886	P5CS_HUMA	Unmodified	3456500	2637900	2324500	97549	71269	67991	0	0
FATHAAALSVR	SFPQ	P23246	SFPQ_HUMA	Unmodified	7862100	9548400	7754900	146020	95240	329180	0	0
FATLYSTR	ENDOD1	O94919	ENDD1_HUM	Unmodified	0	0	1252200	252450	0	256680	0	0
FATNEAIQR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Unmodified	0	725230	602860	0	0	0	0	0
FATVEVTDKPVDEALR	HEBP1; HEBP1; HEI	Q9NRV9; F5GW3	HEBP1_HUM	Unmodified	1825300	0	2027900	58545	57070	37407	0	0
FATVEVTDKPVDEALREAMPK	HEBP1; HEBP1; HEI	Q9NRV9; F5GW3	HEBP1_HUM	Oxidation (M)	1339400	1515100	1396700	20707	0	0	16819	0
FAVFGLGNK	POR	P16435	NCPR_HUMA	Unmodified	1530900	0	0	0	0	0	0	0
FAVLLTDKPTIPR	TASOR2; TASOR2	Q5VWN6; A0A2R	TASO2_HUM	Unmodified	221660	235310	210570	0	0	0	0	0
FAYDGLKR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	413300	552700	2125600	0	0	0	0	95375
FAYVAEREDELSLVK	NCK2; NCK2	O43639; E7EPF5	NCK2_HUMA	Unmodified	1110900	1218400	1037400	0	0	0	0	0
FCFSNR	TMED2; TMED2; TM	Q15363; E7EQ72;	TMED2_HUM	Unmodified	494460	503250	675620	0	0	0	0	0
FCFTPHTEEGCLSER	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	952070	0	1158600	37357	0	27433	0	0
FCLDNGAK	PGK1	P00558	PGK1_HUMA	Deamidation (N)	8011200	9991100	8648400	143730	89089	143090	0	0
FCPEADSK	GLG1	Q92896	GSLG1_HUM	Unmodified	347320	465290	473230	27843	43812	0	0	0
FCPTENVAK	PMPCA	Q10713	MPPA_HUM	Unmodified	1202100	1133700	1438100	0	0	0	0	0
FCTGLTQIETLFK	CKB	P12277	KCRB_HUM	Unmodified	2435600	1704300	2220800	0	0	0	0	0
FDAGELITQR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	12107000	12879000	13442000	60432	61517	100110	0	0
FDAGELITQRELVSR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	4283800	2776900	4193100	18980	20931	18517	18561	0
FDAMPFTLR	PA2G4	Q9UQ80	PA2G4_HUM	Oxidation (M)	7973100	6592900	6833700	258660	166210	179720	19316	16935
FDAQTGADREVQR	PSMC4	P43686	PRS6B_HUM	Unmodified	1647900	2249800	2062300	0	63742	57723	0	0
FDASFFGVHPK	FASN; FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	10731000	10971000	10987000	350630	255280	309450	48432	48278
FDDAVVQSDMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	2433200	2234800	2798400	0	0	47103	0	0
FDDAVVQSDMKHWPFMVVNDAGRPK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	2 Oxidation (M);De	4250600	1826800	2516500	0	0	0	0	0
FDDDKVSIVTPEDILR	USP14; USP14	P54578; A6NJA2	UBP14_HUM	Unmodified	2148500	961940	3387400	0	0	0	0	0
FDDDVVSR	USP7; USP7; USP7;	Q93009; A0A669	UBP7_HUMA	Unmodified	765180	422160	958630	0	52684	0	0	0
FDDGAGGDNEVQR	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	1198300	1053800	1524500	89874	0	0	0	0
FDDPGLMLMGFKPLVLLK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	2 Oxidation (M)	2382800	2591300	2915400	0	0	0	0	0
FDDPGLMLMGFKPLVLLKK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	2 Oxidation (M)	862250	650030	776590	0	0	0	0	0
FDDPLLGPR	LARS1; LARS1; LAR	Q9P2J5; A0A6B9	SYLC_HUMA	Unmodified	2293000	2052900	1792800	129320	124130	131390	0	0
FDEAALSIQK	NAPG	Q99747	SNAG_HUM	Unmodified	310600	392340	0	0	0	0	0	0
FDEATQLR	PFKL	P17858	PFKAL_HUM	Unmodified	285020	2696700	3119300	0	128870	0	0	0
FDEGRNNFEGEVTK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	580900	509940	496090	0	0	0	0	0
FDEGRNNFEGEVTKENLLDFIK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	943060	794710	1292400	0	0	0	0	0
FDEHQSKPEILNLVK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	2694200	3472300	1737500	49526	64678	0	0	0
FDEHQSKPEILNLVKR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	1031100	1102800	446960	128900	59028	68496	29292	21353
FDEIFLK	EPS15L1; EPS15L1;	Q9UBC2; M0R2S	EP15R_HUM	Unmodified	182250	246530	150100	0	0	6784	0	0

FDEISFVNFAR	SSRP1	Q08945	SSRP1_HUM	Deamidation (N)	1622500	1392800	1623700	0	0	0	0	0	0
FDEISFVNFAR	SSRP1	Q08945	SSRP1_HUM	Unmodified	6706000	7449600	1084600	24328	0	0	0	0	0
FDESEKTK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	1053200	1065000	882200	72237	75919	84882	0	0	0
FDESEKTKESR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	4036400	3172000	3432200	336460	379300	506480	0	0	0
FDEVLIR	MYO1C; MYO1C	O00159; F5H6E2	MYO1C_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FDGALNVDLTEFQTNLVPYPR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	737510	0	0	0	0	0	0	0	0
FDGILTEGEGPR	ERO1A	Q96HE7	ERO1A_HUM	Unmodified	1121100	0	0	0	0	0	0	0	0
FDILCVVR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Unmodified	1237000	1266900	1344200	0	0	0	0	0	0
FDKRSEAEEAITSFNGHKPPGSSEPITVK	ELAVL1	Q15717	ELAV1_HUM	Deamidation (N)	3129300	4763400	4311200	64254	0	0	0	0	0
FDLGLEDVLIPHVDAGK	MAN1A2	O60476	MA1A2_HUM	Unmodified	272650	282480	241360	0	0	0	0	0	0
FDLGQDVIDFTGHALALYR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Unmodified	209860	0	195300	0	0	0	0	0	0
FDLLASNFPPLPGSSSR	LARP4; LARP4	Q71RC2; X6RLN4	LARP4_HUM	Unmodified	62222	450260	229080	0	0	0	0	0	0
FDLMYAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M)	21986000	19428000	17234000	267400	321030	268970	30115	0	22719
FDLNEPLHLSFLQNAAK	UBA6; UBA6	A0AVT1; H0Y8S9	UBA6_HUMA	Unmodified	503670	321840	245640	0	0	0	0	0	0
FDLPDMKETK	EIF2AK2; EIF2AK2;	P19525; A0A7P0Z	E2AK2_HUM	Oxidation (M)	847260	1124300	0	65628	70585	0	0	0	0
FDLQNPSR	SMARCC1	Q92922	SMRC1_HUM	Unmodified	2143700	1727000	1946900	0	0	0	0	0	0
FDMIFIVK	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Oxidation (M)	468910	188130	0	0	0	0	0	0	0
FDMIVPILEK	ILK; ILK	Q13418; A0A0A0	ILK_HUMAN	Oxidation (M)	0	0	0	20252	0	0	0	0	0
FDMIVPILEKMQDK	ILK; ILK	Q13418; A0A0A0	ILK_HUMAN	2 Oxidation (M)	0	0	0	31670	49572	41431	0	61906	119070
FDPFGPIGTSPPGPRPDR	PSMF1	Q5QPM7	Q5QPM7_HU	2 Methyl (KR)	1454500	1501900	1660300	114750	64151	90592	0	0	0
FDPVRGEVPPRYPR	HPX; HPX	P02790; Q9BS19	HEMO_HUM	Unmodified	1728000	1595000	2218800	0	58369	0	0	0	0
FDQLFDDESDPFEVLK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	335640	416350	351580	0	0	0	0	0	0
FDQLLAEEK	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14_HUM	Unmodified	1434300	1532200	1734900	130500	138530	124020	0	0	0
FDQLLAEEKTISAK	MYH9	P35579	MYH9_HUM	Unmodified	132960	433930	0	0	0	0	0	0	0
FDQQKNDYDQLQK	DSP	P15924	DESP_HUMA	Deamidation (N)	625990	555630	623520	0	0	0	0	0	0
FDRGVGAEPLLPWNR	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	2907200	1921300	1753200	0	0	0	0	0	0
FDRGYISPYFINTSK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	988330	294830	906280	0	0	0	0	0	0
FDSASSSYYLDMHSLPHVINPVESR	PIGS	Q96S52	PIGS_HUMA	Oxidation (M)	5518000	3794500	4936500	0	0	0	0	0	0
FDSDAASPR	HLA-B; HLA-C; HLA	P01889; P10321; (	HLAB_HUMA	Unmodified	3548100	1610300	3061700	409790	774390	661960	0	0	0
FDSEPSAVALELPTR	SON	P18583	SON_HUMAN	Unmodified	1400500	1058700	922090	26052	39537	39507	0	0	0
FDSEYER	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Unmodified	4163800	3472700	3305200	69735	68158	51139	0	0	0
FDSKDEILLTLEK	PMPCA	Q10713	MPPA_HUM	Unmodified	1109100	335330	537030	0	0	0	0	0	0
FDSSLDR	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4_HUM	Unmodified	1135700	1080600	1165600	0	0	0	0	0	0
FDTPFLPKPLFFR	RRP1B	Q14684	RRP1B_HUM	Unmodified	312600	262110	0	0	0	0	0	0	0
FDTQYPYGEK	ERP29; ERP29	P30040; F8W1G0	ERP29_HUM	Unmodified	1339100	0	0	0	0	0	0	0	0
FDTQYPYGEKQDEFK	ERP29; ERP29	P30040; F8W1G0	ERP29_HUM	Unmodified	1627400	1396900	1505400	0	0	0	0	0	0
FDTQYPYGEKQDEFK	ERP29; ERP29	P30040; F8W1G0	ERP29_HUM	Methyl (KR)	940750	1130000	1153400	0	0	0	0	0	0
FDTQYPYGEKQDEFKR	ERP29; ERP29	P30040; F8W1G0	ERP29_HUM	Unmodified	20280000	20892000	23297000	288770	324740	362030	31453	0	16092
FDTQYPYGEKQDEFKR	ERP29; ERP29	P30040; F8W1G0	ERP29_HUM	Methyl (KR)	5674200	5074400	4577800	105890	61072	90018	0	0	0
FDTTFESARPTQTHMALVQLER	SIRT6; SIRT6	Q8N6T7; M0R1N9	SIR6_HUMAN	Oxidation (M)	2000300	1998800	1637300	0	0	0	0	0	0
FDVQLKDLEK	RPS15A; RPS15A; R	P62244; H3BVC7	RS15A_HUM	Unmodified	1914300	1724600	1961300	0	46394	46013	0	0	0
FDVSGYPTIKILK	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Methyl (KR)	1086100	978510	874560	0	0	0	0	0	0
FDVSGYPTLK	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Unmodified	19027000	16504000	16793000	452390	507570	570290	117340	14214	0
FDVSGYPTLKIFR	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Methyl (KR)	790480	772910	854970	0	0	0	0	0	0
FDVSSTSVFK	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	274430	3584400	4246400	243460	179180	212560	10231	0	0
FDVSSTSVFKQR	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	0	0	0	184920	121160	125020	17168	13150	0
FDWFLK	SMARCA5	O60264	SMCA5_HUM	Unmodified	2228400	2615400	3106100	8467.3	0	0	0	0	0
FDWIRDQLNLFINNNVK	TSPAN17	D6RDX8	D6RDX8_HU	4 Deamidation (N)	938690	0	0	0	0	0	0	0	0
FEAHPNDLYVEGLPENIPFR	GTF2I; GTF2I; GTF2I	P78347; A0A494C	GTF2I_HUMA	Deamidation (N)	1095100	909170	1450100	0	0	0	0	0	0
FEAPLFNAR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	968640	0	6493000	289730	0	264400	0	0	10145
FEDPKFEVIEKPQA	ATP5PF	P18859	ATP5J_HUM	Unmodified	8531200	6009900	7598000	215640	192340	203330	0	0	49748
FEDPRDAEDAIYGR	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9_HUM	Unmodified	2480700	1556700	1970400	29791	28897	17969	0	0	0
FEDPRDAEDAIYGRNGYDYGQQCR	SRSF9; SRSF9	Q13242; S4R3G0	SRSF9_HUM	Deamidation (N)	1217200	1220700	1027100	0	0	0	0	0	0
FEEEELQR	DDX54; DDX54	Q8TDD1; H0YHH	DDX54_HUM	Unmodified	833090	681510	810940	0	0	0	0	0	0
FEEEIKAEQEER	EFHD2	Q96C19	EFHD2_HUM	Unmodified	4032100	4655100	4087600	19826	14598	33186	0	0	0
FEEELAAR	NUCB1	Q02818	NUCB1_HUM	Unmodified	506670	744430	535430	24956	36239	25790	0	0	0
FEELCSDLFR	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP76_HUM	Unmodified	1840700	1441200	1434200	47934	34890	0	17085	24778	15422
FEELGVK	GLO1	Q04760	LGUL_HUMA	Unmodified	8136500	6898700	8636500	254390	256700	320970	6569.2	0	0
FEELNADLFR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C_HUM	Unmodified	11817000	10945000	13388000	181190	193460	212400	0	0	0
FEELNADLFR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C_HUM	Deamidation (N)	11889000	8223600	9867800	31818	36968	15670	0	0	0
FEELNADLFRGTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	5996100	6134200	8016600	0	0	0	0	0	0
FEELNADLFRGTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Deamidation (N)	2405200	2906100	2549500	0	0	0	0	0	0
FEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P01	BIP_HUMAN	Oxidation (M)	9791600	8253700	7221300	313440	375500	366180	59914	0	57851
FEELNMDLFR	HSPA5; HSPA5	P11021; A0A7P01	BIP_HUMAN	Oxidation (M);Deam	3589900	2920000	3255000	89947	72844	52319	0	0	0
FEELNR	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L_HUM	Unmodified	398340	324980	733540	0	0	0	0	0	0
FEEPAPLSYDSRPR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1_HUMAN	Unmodified	2393100	1276300	2432200	304650	519070	384770	0	62143	76673
FEETTADGR	FABP5; FABP5	Q01469; I6L8B7	FABP5_HUM	Unmodified	358200	9523500	5597200	172560	186360	0	0	0	0
FEEVEEEPEVIPGPPSESPGMLTK	PRPF3	O43395	PRPF3_HUM	Oxidation (M)	0	6550600	4656700	0	0	0	0	0	0
FEFTPGR	OXSR1; STK39; OXS	O95747; Q9UEW3	OXSR1_HUM	Unmodified	653300	717530	585470	0	0	0	0	0	0
FEGGDRDLEHLSK	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Unmodified	1717800	1493100	1504100	0	0	0	0	0	0
FEGLSPLQR	BOLA1	Q9Y3E2	BOLA1_HUM	Unmodified	2365400	0	1251000	31658	0	19984	0	0	0
FEGPQVQDGR	B3GAT3; B3GAT3	O94766; G3V150	B3GA3_HUM	Unmodified	1163800	1400000	0	0	0	0	0	0	0
FEIFFK	COLGALT1; COLGA	Q8NBJ5; M0QX7	GT251_HUM	Unmodified	543730	425220	620460	10094	0	0	6432.2	8778	0
FEIGEGENLDLPYGLER	FKBP4	Q02790	FKBP4_HUM	Deamidation (N)	812500	0	551810	0	0	0	0	0	0
FEIGEGENLDLPYGLER	FKBP4	Q02790	FKBP4_HUM	Unmodified	2139400	435970	1257600	0	0	0	0	0	0
FEIWDTAGQER	RAB5B; RAB5C; RA	P61020; P51148; I	RAB5B_HUM	Unmodified	854700	755600	1047400	0	0	0	0	0	0
FEKNFYQEHPDLAR	DDX5; DDX5; DDX5	P17844; A0A7Z7	DDX5_HUMA	Deamidation (N)	1490600	1313100	1155900	0	0	0	0	0	0
FEKNFYVEHPEVAR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Deamidation (N)	1474600	1135000	1045400	0	0	0	0	0	0
FEKPLEEK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	817590	1000900	710560	0	0	0	0	0	0
FELGKLMELHGEGSSSGK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Oxidation (M)	1485200	1923900	1886600	0	0	0	0	0	0
FELLTNFPR	UBXN7; UBXN7	O94888; C9JAT7	UBXN7_HUM	Unmodified	122600	1290000	811410	0	21403	0	0	0	0
FELSGIPPAPR	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP76_HUM	Unmodified	1027900	1135800	937980	24060	0	32326	0	0	0
FELTGIPPAPR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Methyl (KR)	3857500	3729400	4071600	0	0	27595	0	0	0
FELTGIPPAPR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FENAFLSHVVSQHQALLGTIR	ATP5F1A	P25705	ATPA_HUMA	Unmodified	3996600	3144500	4708300	0	0	0	0	0	0
FENAFLSHVVSQHQALLGTIR	ATP5F1A	P25705	ATPA_HUMA	Deamidation (N)	335460	254420	163620	0	0	0	0	0	0
FEPPQSDSDGQR	U2SURP; U2SURP; U	O15042; E7ET15;	SR140_HUM	Unmodified	562000	695550	514320	0	0	0	0	0	0
FEQLISR	XAB2	Q9HCS7	SYF1_HUMA	Unmodified	524350	3123800	0	0	0	0	0	0	0
FESDPATHNEPGVR	SEPTIN11; SEPTIN1	Q9NVA2; D6RER	SEP11_HUM	Unmodified	1077800	1211600	0	0	25773	0	0	0	0
FESEILEAISQNSVVIIR	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	151940	0	0	0	0	0	0	0	0
FESLEPEMNNQASR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M);Deam	661510	632410	613950	36113	0	55098	0	0	0
FESPEVAER	HNRNPM; HNRNPM	P52272; A0A087	HNRPM_HUM	Unmodified	14882000	20978000	15638000	701090	760720	650990	0	0	0
FETEKNNGAGYFLEHLAFK	UQCRC1	P31930	QCR1_HUMA	2 Deamidation (N)	531170	440250	809910	0	0	0	0	0	0
FETFCLDPSLVTK	SRP68	Q9UHB9	SRP68_HUM	Unmodified	0	846740	1513600	0	0	0	0	0	0
FEVAQVESLR	TPR	P12270	TPR_HUMAN	Unmodified	571860	1172300	1729200	0	0	0	0	0	0
FEVGDIMLIR	PNP; PNP; PNP	P00491; G3V5M2	PNPH_HUMA	Oxidation (M)	1919900	758880	912690	0	0	7110	0	0	5998.8
FEVIPQSIRLEDLK	TM9SF4; TM9SF4	Q92544; A0A0C4	TM9S4_HUM	Unmodified	1854500	1144000	1772700	0	0	0	0	0	0
FEVNPVWK	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1_HUM	Unmodified	539670	691290	661450	0	0	0	0	0	0
FFDANYDGKDYDPVAAR	MAPRE1	Q15691	MARE1_HUM	Deamidation (N)	4168300	2510900	1431800	0	0	0	0	0	0
FFDANYDGKDYDPVAAR	MAPRE1	Q15691	MARE1_HUM	Unmodified	2867300	1936700	2250300	0	0	0	0	0	0
FFDDPMLLELAK	EFTUD2; EFTUD2	Q15029; K7EP67	U5S1_HUMA	Oxidation (M)	2451100	0	2191300	18113	0	6964.7	0	0	7404
FFDEESYSLLR	SSR4; SSR4	P51571; A6NLM8	SSRD_HUMA	Unmodified	12822000	12506000	12008000	389160	342850	283960	79640	76503	79862
FFDEESYSLLRK	SSR4; SSR4	P51571; A6NLM8	SSRD_HUMA	Unmodified	0	0	13823000	391970	216760	425800	0	34149	46251
FFDHSGTLVMDAYEPEISR	SPCS2; SPCS2; SPCS	Q15005; E9PL01;	SPCS2_HUM	Oxidation (M)	3918200	3514000	4137000	0	0	0	40805	0	0
FFDQYR	DSP	P15924	DESP_HUMA	Unmodified	3801700	5231600	6353600	0	0	0	0	0	0
FFDSFGNLSSASAIMGNPK	HBG2; HBG1; N/A	P69892; P69891; ;	HBG2_HUMA	Oxidation (M)	2429900	0	2305700	0	0	0	0	0	0
FFDVNGSAFLPR	BTBD17	A6NE02	BTBDH_HUM	Deamidation (N)	518480	561690	609970	0	0	0	0	0	0
FFEDYGLFMR	TRAP1; TRAP1	Q12931; I3L0K7	TRAP1_HUM	Oxidation (M)	10689000	4940000	5200800	0	13122	15308	0	0	0
FFESFGDLSSPDAVMGNPK	HBD; HBD; HBD	P02042; E9PEW8	HBD_HUMAN	Oxidation (M)	12227000	20278000	20288000	36467	39164	36067	0	0	16037
FFESFGDLSSPDAVMGNPKVK	HBD; HBD; HBD	P02042; E9PEW8	HBD_HUMAN	Oxidation (M);Met	4612000	1255000	2894900	0	0	0	0	0	0
FFETSAK	RAB10; RAB3C; RA	P61026; Q96E17;	RAB10_HUM	Unmodified	11871000	14498000	12430000	627460	621970	671220	14995	33388	0
FFFDPVR	HELLS; HELLS; HEL	Q9NRZ9; A0A0B4	HELLS_HUM	Unmodified	532940	0	489060	0	0	0	0	0	0
FFFDVGSNK	PURA	Q00577	PURA_HUMA	Unmodified	460500	425840	0	0	23753	20867	0	0	0
FFFDVGSNKYGVFMR	PURA	Q00577	PURA_HUMA	Oxidation (M)	745510	306390	242390	0	0	0	0	0	0
FFGEDAEIAAR	MSH3; MSH3; MSH3	P20585; A0A590	MSH3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FFGEIDPSLMR	CACNA2D1	P54289	CA2D1_HUM	Oxidation (M)	2835400	0	3061400	0	0	0	0	0	0
FFGGYVPEMVLTPDDQR	MARS1; MARS1	P56192; H0YIP0	SYMC_HUM	Oxidation (M)	397010	241370	477580	0	0	0	0	0	0
FFGKDISTTLNADEAVAR	HSPH1; HSPH1	Q92598; A0A0A0	HS105_HUM	Unmodified	603810	419690	0	0	0	0	0	0	0
FFGNLMDASK	PGM1; PGM1	P36871; A0A3B3	PGM1_HUMA	Oxidation (M)	1772100	1552800	972140	0	0	0	0	0	0
FFHETEAPRPKDFLSK	NDUFA6; NDUFA6;	P56556; R4GN43;	NDUA6_HUM	Unmodified	783070	993090	0	0	0	0	0	0	0
FFHPEEWADLFQAAGAK	FUCA1	P04066	FUCO_HUMA	Unmodified	325770	227610	191910	0	0	0	0	0	0
FFLHGVTLVPIEEFSPEFVEPR	LAMA5	O15230	LAMA5_HUM	Unmodified	92233	0	52224	0	0	0	0	0	0
FFLQGIQLNTILPDAR	LAMP1	P11279	LAMP1_HUM	Unmodified	98695	41008	87607	0	0	0	0	0	0
FFLQGIQLNTILPDARDPAFK	LAMP1	P11279	LAMP1_HUM	Deamidation (N)	176220	106960	109440	0	0	0	0	0	0
FFLQGIQLNTILPDARDPAFK	LAMP1	P11279	LAMP1_HUM	Unmodified	159130	0	312810	0	0	0	0	0	0
FFLSSGLIDKVDNFK	TMEM43	Q9BTV4	TMM43_HUM	Unmodified	2140500	2146700	2409300	0	0	0	0	0	0
FFMGNQVLK	XRCC5	P13010	XRCC5_HUM	Oxidation (M)	3424600	3654900	2670100	67399	77687	133470	0	0	0
FFMGNQVLK	XRCC5	P13010	XRCC5_HUM	Oxidation (M);Deam	2583700	1941000	2154200	82647	48914	0	0	0	0
FFNIPFLQLQR	RABL6; RABL6; RA	Q3YEC7; F2Z2T0	RABL6_HUM	Unmodified	241650	170220	232180	0	0	0	0	0	0
FFNLNKLEDSR	ACO1	P21399	ACOC_HUMA	Deamidation (N)	422800	231380	0	0	0	0	0	0	0
FFNLNKLEDSR	ACO1	P21399	ACOC_HUM	Unmodified	907340	1638700	1210400	16579	30916	0	0	0	5520.5
FFPASADR	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1_HUM	Unmodified	29446000	26813000	18004000	1231200	1144200	1243800	63460	45083	64363

FFPASADRTVIDYNGER	P4HB; P4HB; P4HB;	P07237; A0A7P07	PDIA1	HUM/	Deamidation (N)	25155000	33370000	29070000	1002700	705310	868800	70696	106180	125450
FFPLESWQIGK	DDT; DDT; DDT	P30046; H7C342;	DOPD	HUM/	Unmodified	24902000	21225000	19986000	32197	0	24020	0	0	0
FFQELPGSDPVFK	PDXDC1; PDXDC2P	Q6P996; Q6P474;	PDXD1	HUM	Unmodified	2147300	2210100	2741700	44525	37521	32953	0	0	0
FFQGMPEKPTTTVR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM/	Oxidation (M)	29314000	28906000	30151000	311550	247880	289480	0	0	0
FFQPTEMAAQDFFQR	AP2A1	O95782	AP2A1	HUM	Oxidation (M)	2246800	0	1371700	0	0	0	0	0	0
FFQPTEMASQDFFQR	AP2A2; AP2A2	O94973; A0A0G2	AP2A2	HUM	Unmodified	0	638160	0	0	0	0	0	0	0
FFRNGDTASPK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Deamidation (N)	31477000	33196000	28067000	824750	615060	658680	0	0	0
FFRNGDTASPKEYTAGR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Deamidation (N)	1658100	1665600	3537100	0	0	32328	0	16008	0
FFSDCK	HNRNPH1; HNRNPI	P31943; P55795; I	HNRH1	HUM	Unmodified	5722900	7337700	7439700	262200	143820	148780	0	0	0
FFSDCKIQNGAQGIR	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Deamidation (N)	1330700	1346400	1377200	0	33741	0	0	0	0
FFSEQQQSK	PRRC2C; PRRC2C; I	Q9Y520; H7C5N8	PRC2C	HUM	Unmodified	456400	397960	373210	0	0	0	0	0	0
FFSGYGR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM/	Unmodified	23732000	24706000	31739000	379220	384500	361030	34391	37296	26285
FFSPLQK	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR	HUM/	Unmodified	4051700	3593700	4052500	390360	388520	468710	0	0	48328
FFTDDLFQYAGEK	JMJD6; JMJD6; JMJI	Q6NYC1; B2WTI	JMJD6	HUM/	Unmodified	292110	248430	370830	0	0	0	0	0	0
FFTDDLFQYAGEKR	JMJD6; JMJD6; JMJI	Q6NYC1; B2WTI	JMJD6	HUM/	Unmodified	814040	539550	0	0	0	0	0	0	0
FFTEEVDSR	ACAD9; ACAD9; AC	Q9H845; A0A7P0	ACAD9	HUM	Unmodified	5857400	4057400	5024700	316100	282770	187940	0	0	0
FFTTPSK	RSL1D1	O76021	RL1D1	HUM	Unmodified	2094200	2190000	2128600	102770	132340	117260	18775	19432	15014
FFTVKLPVALDPGAK	RPN1	P04843	RPN1	HUM/	Unmodified	945000	1080000	680000	0	0	0	0	0	0
FFTYGNFPLEQHLK	PITRM1; PITRM1; PI	Q5JRX3; A0A7Z	PREP	HUM/	Unmodified	5950900	4376800	4120800	0	0	0	0	0	0
FFVADTANEALEAAK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2	HUM	Unmodified	3335800	3808100	2231400	0	0	0	0	0	0
FFVADTANEALEAAK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
FFVADTANEALEAAKR	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2	HUM	Unmodified	0	1270000	1616400	0	0	0	0	0	0
FFVGGNWK	TPI1	P60174	TPIS	HUMA	Unmodified	14191000	12979000	14589000	63584	0	74531	0	17330	9139.3
FFVGGNWK	TPI1	P60174	TPIS	HUMA	Deamidation (N)	11013000	9096100	9531500	27572	0	26617	0	0	0
FFVSSSQGR	BSG; BSG; BSG; BS	P35613; A0A087	BASI	HUMA	Unmodified	0	0	0	305450	307030	289170	26562	34079	48829
FFVTTLPAFFHAK	TMX4	Q9H1E5	TMX4	HUM/	Unmodified	1548600	1036200	2884700	0	0	0	0	0	0
FGALCEAETGR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	0	0	0	119130	0	150950	0	0	23036
FGALTAEK	LYPLA2; LYPLA2	O95372; Q5QPQ0	LYPA2	HUM	Unmodified	3493300	3015900	2777300	144960	80975	0	0	0	0
FGAMGGGGPSAAGGGTPQPTATPTLNQLLTSPSSAR	ARID1A	O14497	AR11A	HUM/	Oxidation (M)	8131900	0	0	36072	0	0	0	0	0
FGAPPHAGGGIGLER	DARS1; DARS1	P14868; H7BZ35	SYDC	HUM/	Unmodified	1215900	1147800	2368400	0	0	0	0	0	0
FGAQNEEMLPSILVLLKR	COPG1	Q9Y678	COPG1	HUM	Oxidation (M)	564250	380770	456410	0	0	0	0	0	0
FGAQNVAR	TERF2IP	Q9NYB0	TE2IP	HUM/	Unmodified	0	479640	461040	0	0	0	0	0	0
FGAQQDTIEVPEKDLVDK	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	4022800	3757500	3490200	0	19479	0	0	0	0
FGAQQDTIEVPEKDLVDKAR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	7260400	6173400	7408300	0	0	0	0	0	0
FGAVEGAVAK	PTGES2; PTGES2; P	Q9H7Z7; A0A7I2	PGES2	HUM	Unmodified	750430	586570	586490	0	55347	0	0	0	0
FGAVWTGDNTAEWDHLK	GANAB; GANAB; G	Q14697; E5H6X6;	GANAB	HUM	Deamidation (N)	1081700	502680	1201300	0	0	0	0	0	0
FGAVWTGDNTAEWDHLK	GANAB; GANAB; G	Q14697; E5H6X6;	GANAB	HUM	Unmodified	575630	3424800	2924300	0	0	0	0	0	0
FGDFVLK	UMPS; UMPS; UMP	P11172; F2Z3P2;	UMPS	HUM/	Unmodified	1218100	1396500	1185800	0	0	0	0	0	0
FGDPECQVILPLLK	GART	P22102	PUR2	HUM	Unmodified	960590	889150	1106900	0	0	0	0	0	0
FGDPVVQSDMK	HSPA1A; HSPA1B; I	P0DMV8; P0DM	HS71A	HUM	Oxidation (M)	1285000	1421500	2021200	0	0	0	0	0	0
FGDRFPAMSDAYDR	PNP; PNP	P00491; G3V5M2	PNPH	HUM	Oxidation (M)	861950	1005700	1331200	25887	0	0	0	0	0
FGDSNTVMR	DSP	P15924	DESP	HUM	Oxidation (M)	3154900	3008900	2976000	108480	86856	90012	0	0	0
FGDSNTVMR	DSP	P15924	DESP	HUM	Oxidation (M);Deai	378580	360750	324000	0	0	0	0	0	0
FGEEIAR	PDCD6IP; PDCD6IP	Q8WUM4; F8WD	PDC6I	HUM/	Unmodified	0	782360	724000	47402	0	0	0	0	0
FGEISLR	RBM15B	Q8NDT2	RB15B	HUM	Unmodified	962080	1009100	708690	0	34128	41723	0	0	0
FGELVMTK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM/	Oxidation (M)	5137000	4846300	5281200	174520	171240	0	0	0	0
FGELVMTKESK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM/	Oxidation (M)	0	0	0	0	0	0	0	0	0
FGELVMTKESK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM/	Oxidation (M);Met	0	235190	364430	21294	19254	0	0	0	0
FGEMQLDFR	STT3B	Q8TCJ2	STT3B	HUM	Oxidation (M)	7296400	8337700	8933900	505400	455890	500510	20502	14865	0
FGEMQLDFRTPPGFDR	STT3B	Q8TCJ2	STT3B	HUM	Oxidation (M)	2324500	1429100	1786100	223180	160810	126260	22707	21849	0
FGEVISYQQLAALAGNPK	MGMT; MGMT	P16455; B4DEE8	MGMT	HUM	Unmodified	9693300	13841000	0	0	0	0	0	0	0
FGEVVDCTIKMDPNTGR	HNRNPAB; HNRNP	Q99729; D6R9P3	ROAA	HUM/	Oxidation (M)	7032500	6388900	7173300	100360	0	0	0	0	0
FGEVVDCTIKMDPNTGR	HNRNPAB; HNRNP	Q99729; D6R9P3	ROAA	HUM/	Oxidation (M);Deai	1943700	2060300	2279900	0	0	0	0	0	0
FGEVVDCTIKTDPVTGR	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUN	Unmodified	12442000	13361000	10752000	865080	628410	841560	61717	62392	0
FGEVVDCTLK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUN	Unmodified	8867000	9267100	7303700	209700	299670	324560	0	0	0
FGEVVDCTLKLDPITGR	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUN	Unmodified	11956000	9771900	11332000	0	0	0	0	0	0
FGEVVDCTLKLDPITGR	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUN	Methyl (KR)	419330	382910	406810	0	0	0	0	0	0
FGFAIGSQTTK	PCNP	Q8WW12	PCNP	HUM	Unmodified	4633400	4670700	3333300	222650	0	239590	0	0	0
FGFAIGSQTTKK	PCNP	Q8WW12	PCNP	HUM	Unmodified	1134700	847780	946550	0	0	0	0	0	0
FGFGFGGTGK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUM	Unmodified	999920	827310	601960	21358	42430	75137	0	0	0
FGFPEGSVELYAEK	RPS3; RPS3; RPS3; I	P23396; H0YF32;	RS3	HUMAN	Unmodified	3373700	1954500	2421800	32659	36295	27215	0	33810	30494
FGFVDAQKEDMPPEHVR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8	HUM	Oxidation (M)	4212800	2985300	5237800	262870	0	0	0	0	0
FGGALDAAAK	ACLY	P53396	ACLY	HUM/	Unmodified	912010	1282600	990220	0	0	0	0	0	0
FGGEHVPNSPFQVTALAGDQPSVQPPLR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUM	Deamidation (N)	16657000	15666000	13083000	0	0	0	76854	0	0
FGGEHVPNSPFQVTALAGDQPSVQPPLR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUM	Deamidation (N)	4573600	6218200	4414600	0	0	0	0	0	0
FGGGNPELLTQMVSK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM/	Oxidation (M)	20329000	16577000	15826000	108420	144630	219970	0	0	0
FGGGNPELLTQMVSKGFLGR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM/	Oxidation (M)	853230	782620	1321900	0	0	0	0	0	0
FGGIFQEPVSK	CRYBG3	Q68DQ2	CRBG3	HUM	Unmodified	897970	1091200	876950	28582	23050	27461	0	0	0
FGGNPGGFGNQGGFGNSR	TARDBP; TARDBP	Q13148; A0A087	TADBP	HUM	Deamidation (N)	2324300	2388300	2636500	68563	132100	176050	0	0	0
FGGNPGGFGNQGGFGNSR	TARDBP; TARDBP	Q13148; A0A087	TADBP	HUM	2 Deamidation (N)	2306700	1808500	2264300	134330	109570	180570	0	0	0
FGGPVHHQAQR	ELAVL1	Q15717	ELAV1	HUM	Unmodified	9166600	8342200	8298300	541060	133600	431650	0	46875	0
FGGSGSQVDSAR	PSMD2	Q13200	PSMD2	HUM	Unmodified	1803000	1476700	1512300	86998	101460	0	0	0	0
FGGVVELR	RPIA	P49247	RPIA	HUMA	Unmodified	731610	1094900	877670	0	48783	0	0	0	0
FGIAAKYQLDPTASISAK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2	HUM	Methyl (KR)	589140	591570	538990	0	0	0	0	0	0
FGIDDQDYLVSLTR	PIP4K2C; PIP4K2C;	Q8TBX8; F8VU6	PI42C	HUMA	Unmodified	1960990	1518500	1474600	0	0	0	0	0	0
FGIIMRDPQTEEFK	HTATSF1; HTATSF1	O43719; Q5H919;	HTSF1	HUM	Oxidation (M)	722220	655860	704470	0	0	0	0	0	0
FGIIMRDPQTEEFKVK	HTATSF1; HTATSF1	O43719; Q5H919;	HTSF1	HUM	Oxidation (M)	1816000	1488200	1907000	0	0	41095	0	0	0
FGIQAQMVTTDFQK	PSMB3; PSMB3; PSI	P49720; A0A087	PSB3	HUMA	Oxidation (M)	2035500	1476800	4676500	53845	41472	0	0	0	0
FGISSVPTK	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP	HUM	Unmodified	6553400	8566500	6516800	510880	603280	760530	0	0	0
FGIVTSSAGTGTTEDTEAK	SARNP; N/A	P82979; H0YHG0	SARNP	HUM	Unmodified	3142300	0	0	0	0	146480	0	0	0
FGIVTSSAGTGTTEDTEAKK	SARNP; N/A	P82979; H0YHG0	SARNP	HUM	Unmodified	651280	712770	0	47221	44946	0	0	0	0
FGIVTSSAGTGTTEDTEAKKR	SARNP; N/A	P82979; H0YHG0	SARNP	HUM	Unmodified	4957600	4800200	3619800	366580	120350	444580	52893	28348	0
FGIYDIDNK	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
FGLGPAPFSR	NUDT19	A8MXV4	NUD19	HUM	Unmodified	2448700	3200500	3829300	270890	237000	281200	24238	28648	16068
FGLGSVAGAVGATAVYPIDLVK	SLC25A13	Q9UJS0	CMC2	HUM/	Unmodified	636310	0	448820	0	0	0	0	0	0
FGLLNIVMEPFFKR	GNPAT; GNPAT; GN	O15228; Q5TBH6	GNPAT	HUM	Oxidation (M)	196110	268770	158280	0	0	0	0	0	0
FGLNVSSISR	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP	HUM	Unmodified	7877600	7470900	6783900	0	0	0	18934	16993	22465
FGLYLPLFKPSVSTSK	SLC25A13	Q9UJS0	CMC2	HUM/	Unmodified	699580	469710	976510	0	0	0	0	0	0
FGMFEFLSNHMR	SLC25A1	P53007	TXTP	HUMA	2 Oxidation (M)	2408700	2195200	0	77121	77794	32112	0	0	0
FGMFEFLSNHMR	SLC25A1	P53007	TXTP	HUMA	2 Oxidation (M);De	1716700	1400400	662310	20726	34477	0	0	0	0
FGNICVVR	SF3B3	Q15393	SF3B3	HUM/	Unmodified	607790	615800	739340	0	0	0	0	0	0
FGNPLLVQDVESYDPVLNPVLNR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM/	Unmodified	0	320830	1521400	0	0	0	0	0	0
FGNQADHFLGSLAFAK	POFUT1	Q9H488	OFUT1	HUM/	Unmodified	2538700	750880	975530	0	0	0	0	0	0
FGNQADHFLGSLAFAK	POFUT1	Q9H488	OFUT1	HUM/	Deamidation (N)	0	992310	634590	0	0	0	0	0	0
FGPALSVK	PABPC1; PABPC3; P	P11940; Q9H361;	PABP1	HUM/	Unmodified	20441000	10889000	16494000	486040	179920	197120	27273	0	0
FGPDGTGR	AKAP8; AKAP8; AK	O43823; A0A7P0	AKAP8	HUM/	Unmodified	1467200	1147600	1123400	38730	37577	33411	0	0	0
FGPGGQLIK	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM/	Unmodified	1921000	1621500	1796600	337000	393270	400710	54377	68325	0
FGPIPLGSLGWK	NDUFA9; N/A	Q16795; A0A3B3	NDUA9	HUM/	Unmodified	3371300	2754200	2507200	0	0	0	0	0	0
FGPLASVK	U2SURP; U2SURP; I	O15042; E7ET15;	SR140	HUM/	Unmodified	20441000	16719000	10042000	240520	217850	198210	0	0	0
FGPLTPELMVPR	RFC5; RFC5	P40937; F5H5S0	RFC5	HUMA	Oxidation (M)	1786900	6026200	6099200	13458	29458	76587	0	0	0
FGPYYTEPVIAGLDPK	PSMB3; PSMB3	P49720; A0A087	PSB3	HUMA	Unmodified	6759900	5787600	7250600	0	14598	0	9561.8	0	0
FGQAATMEGIGAIGGTPPAFNR	NONO; NONO; NON	O15233; A0A7I2	NONO	HUM/	Oxidation (M)	85343000	85410000	77353000	3006500	2634500	2204400	692110	621740	696840
FGQAATMEGIGAIGGTPPAFNR	NONO; NONO; NON	O15233; A0A7I2	NONO	HUM/	Oxidation (M);Deai	47603000	38679000	47841000	480600	331170	333830	265030	147670	179090
FGQDIISPLLSVK	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1	HUM	Unmodified	502150	359570	461180	0	0	0	0	0	0
FGQGGAGPVGGQGPR	SFPQ	P23246	SFPQ	HUMA	Unmodified	128580000	120080000	140310000	6628900	7644700	7541700	1347300	1240900	1221600
FGQIMIENLR	LCMT1; LCMT1; LC	Q9UIC8; I3L537;	LCMT1	HUM	Oxidation (M)	1286800	0	776780	0	0	0	0	0	0
FGQIMIENLRR	LCMT1; LCMT1; LC	Q9UIC8; I3L537;	LCMT1	HUM	Oxidation (M);2 M	250520	0	200360	0	0	0	0	0	0
FGQLTYVR	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM	HUM/	Unmodified	1514300	1308100	541920	0	29233	35695	0	0	0
FGQMLGSNMTEFHSQISK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	2 Oxidation (M)	1537600	1366200	1703300	0	0	0	0	0	0
FGQMLGSNMTEFHSQISK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	2 Oxidation (M);De	1001400	1256900	1488400	0	0	50772	0	0	0
FGQVYTEAK	STT3A	P46977	STT3A	HUM/	Unmodified	5020900	4819000	4697100	336170	340770	398180	0	0	0
FGQYNKEDPTSFR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B	HUM/	Unmodified	481660	439640	536690	35881	0	26397	0	0	0
FGSGMNMGR	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM	HUM	2 Oxidation (M);De	19031000	13953000	18043000	526390	540470	584600	0	0	0
FGSGMNMGR	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM	HUM	2 Oxidation (M)	0	0	8396100	581390	0	0	0	0	0
FGSGMNMGRINEILSNALK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	2 Oxidation (M);De	17387000	12154000	14565000	0	0	0	0	0	0
FGSGMNMGRINEILSNALK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	2 Oxidation (M);2 1	1088200	1776700	1101000	0	0	0	0	0	0
FGSLLPIHPVTSG	PTPA; PTPA; PTPA;	Q15257; A6PVN5	PTPA	HUMA	Unmodified	9689700	6190900	6357000	578140	488470	449930	73779	0	74432
FGSPADSWWRPEPTMPPTSWR	DHX30; DHX30	Q7L2E3; H7BXY	DHX30	HUM	Oxidation (M)	506350	686290	739140	0	0	0	0	0	0
FGTFGGLGSK	AHNAK	Q09666	AHNK	HUM/	Unmodified	263510	0	0	238420	183890	212320	0	0	0
FGTGGAAVPEKIK	ELOA; ELOA	Q14241; A0A024	ELOA1	HUM	Unmodified	805000	584370	871900	33435	0	54171	0	0	0
FGTTAVPTYQVGR	PUS7; PUS7	Q96PZ0; E7EUH7	PUS7	HUMA	Unmodified	1827800	1668600	1804800	246650	256530	336200	0	0	0
FGVAPDHPEVK	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM/	Unmodified	0	0	4146900	0	0	0	0	0	0
FGVEAFSDCLR	BDH1; BDH1; BDH1	Q02338; E9PCG9;	BDH	HUMA	Unmodified	759150	679040	627550	30924	24685	25964	0	0	0
FGVEQDR	CTTN	Q14247	SRC8	HUMA	Unmodified	908190	871470	839330	0	92386	48984	0	0	0
FGVEQDRMDK	CTTN	Q14247	SRC8	HUMA	Oxidation (M)	2808300	1779600	1937900	197150	281450	224700	0	0	0
FGVEQDVDMVFASFIR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM/	Oxidation (M)	1039400	68376	583060	0	0	0	0	0	0
FGVEQDVDMVFASFIRK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM/	Oxidation (M)	3791700	1972100	2687100	0	0	0	0	0	0
FGVQMDRVDQSAVGFEYQGK	CTTN	Q14247	SRC8	HUMA	Oxidation (M)	2535400	1541400	1675400	196230	83673	0	0	0	0
FGVQMDRVDQSAVGFEYQGKTEK	CTTN	Q14247	SRC8	HUMA	Oxidation (M)	3110600	0	2628400	0	216360	375620	0	0	0
FGVQSER	CTTN	Q14247	SRC8	HUMA	Unmodified	0	1839300	0	0	0	0	21111	0	23492
FGVQTDR	CTTN	Q14247	SRC8	HUMA	Unmodified	2787600	3209300	2903400	628050	502430	591000	14850	0	0
FGVVLDEIKPSSAPELQAVR	COPE; COPE; COPE	O14579; M0R061	COPE	HUMA	Unmodified	6288500	7368800	9551900	0	0	0	0	0	0

FGVVTEVVMIYDAEK	DAZAP1; DAZAP1; I	Q96EP5; K7EK33	DAZP1	HUM	Oxidation (M)	4769900	2176500	3811100	0	0	0	0	0	0
FGVVTEVVMIYDAEKQRPR	DAZAP1; DAZAP1; I	Q96EP5; K7EK33	DAZP1	HUM	Oxidation (M)	14530000	3986800	11028000	0	0	0	0	0	0
FGVVVVGVGR	BLVRA; BLVRA	P53004; C9J1E1	BIEA	HUMA	Unmodified	7383700	6323500	4733000	578980	514160	556130	55250	93115	38291
FGVYDIDNK	CPNE3; CPNE3; CPN	O75131; A0A087	CPNE3	HUM	Unmodified	821510	703990	729880	0	29780	27910	0	0	0
FGYHIIMVEGR	PIN4	Q9Y237	PIN4	HUMA	Oxidation (M)	817960	841700	959260	0	0	0	0	0	0
FGYHIIMVEGRK	PIN4	Q9Y237	PIN4	HUMA	Oxidation (M)	1594600	1984100	1057500	129270	78387	0	0	0	0
FGYQFTQQGPR	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3	HUM	Unmodified	2055700	1852600	0	0	0	0	0	0	0
FGYVDFESAEDLEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	13708000	12487000	10910000	39197	38672	28743	40736	0	0
FHDFLGDSWGILFSHPR	PRDX6	P30041	PRDX6	HUM	Unmodified	2603400	851240	2474900	0	0	0	0	0	0
FHDIISDAEIEIVKDLAKPR	P4HA1	P13674	P4HA1	HUM	Unmodified	2877700	3457700	3271300	0	0	0	0	0	0
FHDKRDAEDAMDAMDGAVLDGR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2	HUM	2 Oxidation (M)	2024300	2259700	1173700	38575	34809	40411	0	0	0
FHDKRDAEDAMDAMDGAVLDGRELR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2	HUM	2 Oxidation (M)	8932700	13072000	5913600	175160	133490	128150	0	0	0
FHDLLSQLDDQYSR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM	Unmodified	1699100	2240800	1643800	0	0	0	0	0	0
FHDLRPDEVADLFQTTQR	FHIT; FHIT; FHIT	P49789; E9PBZ0;	FHIT	HUMA	Unmodified	327980	364980	262850	0	0	0	0	0	0
FHFFEDQLR	OCIAD2	Q56VL3	OCAD2	HUM	Unmodified	1850400	1347200	1450800	0	0	9687	0	0	0
FHHTFSTEIAK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	714580	1049600	1198700	0	0	0	0	0	0
FHLATAEWIAEPVR	MRPL58; MRPL58	Q14197; J3KS15	ICT1	HUMA	Unmodified	509490	529250	655450	0	0	15588	0	0	0
FHMDSETHDPIDLQTK	DIS3; DIS3	Q9Y2L1; G3V1J5	RRP44	HUM	Oxidation (M)	513940	652630	512510	44657	0	0	0	0	0
FHMVDGNVSGEFTDLVPEK	AHSA1; AHSA1; AH	O95433; H0YJ63;	AHSA1	HUM	Oxidation (M)	873040	599450	0	0	0	0	0	0	0
FHPDTDDVPVPAPAGDQK	NUCB1	Q02818	NUCB1	HUM	Unmodified	496150	706760	765570	72532	0	0	0	0	0
FHPEPYGLEDDQR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	Unmodified	2136300	2019900	1651300	0	119360	186830	0	0	0
FHPEPYGLEDDQRSMGYDDLDYGMMSDYGTAR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	3 Oxidation (M)	1513600	0	1341700	0	0	0	0	0	0
FHPGLGYEQR	PTGFRN	Q9P2B2	FPRP	HUMA	Unmodified	781880	891220	582320	62696	0	0	0	0	0
FHPIQGHRVEVK	HNRNPA0	Q13151	ROA0	HUMA	Unmodified	605030	794230	743920	24535	17936	0	0	0	0
FHQFLVSETESGNISR	NSUN2; NSUN2	Q08J23; A0A140	NSUN2	HUM	Unmodified	1010700	1111100	1148800	0	0	0	0	0	0
FHQLDIDDLQSIR	CBR3; CBR1; CBR1;	O75828; P16152;	CBR3	HUMA	Unmodified	5991800	18358000	28093000	11616	0	0	50786	0	0
FHSEDYIDFLQR	HDAC3	O15379	HDAC3	HUM	Unmodified	347000	439330	838120	0	0	0	0	0	0
FHSPPDKDEAEAPSQKVTVTK	XRCC1; XRCC1; XR	P18887; M0QZ96	XRCC1	HUM	Unmodified	657430	580910	621640	0	0	50670	0	0	0
FHTVSGSK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA	HUM	Unmodified	0	0	1005300	0	0	0	0	0	0
FHVEEEGK	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Unmodified	10156000	345400	11668000	0	252320	306640	0	0	0
FHVEEEGKGK	PGK1	P00558	PGK1	HUMA	Unmodified	0	6780900	0	0	0	0	0	0	0
FHVEEEGKGKDASGNK	PGK1	P00558	PGK1	HUMA	Unmodified	5667600	3332300	4119300	0	0	0	0	0	0
FHVEEEGKGKDASGNKVK	PGK1	P00558	PGK1	HUMA	Unmodified	0	0	8251800	0	0	0	0	0	0
FIADQLDHLNVTK	MRPL57	Q9BQC6	RT63	HUMA	Unmodified	1074500	1173800	1118200	0	0	0	0	0	0
FIAEEAAASGAK	IMPA2; IMPA2; IMP	O14732; K7ELF8	IMPA2	HUM	Unmodified	2119700	0	1702100	0	0	0	0	0	0
FIAHVPVPSQQEIEEALVR	ISY1	Q9ULR0	ISY1	HUMA	Unmodified	1536300	1276200	0	0	0	0	0	0	0
FIASTGMDR	PRPF19; PRPF19	Q9UMS4; H0YGZ	PRP19	HUM	Oxidation (M)	6519000	943050	8260500	503050	333100	452230	0	8872.2	0
FIAVEQEFFR	MAN2B2; MAN2B2;	Q9Y2E5; E9PCD7	MA2B2	HUM	Unmodified	0	366450	0	0	0	0	0	0	0
FIAVGYVDDTQFVR	HLA-A; HLA-A; HLA	P04439; A0A0G2	HLAA	HUM	Unmodified	2948600	1878100	1356200	0	0	0	17499	9737.5	15559
FICEQDHQNFLR	HSPH1; HSPH1	Q92598; A0A0A0	HS105	HUM	Unmodified	914820	1356800	1106100	0	26374	0	0	0	0
FIDFFK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	2633200	2690900	2470400	0	0	0	0	0	0
FIDPLAK	MCM4; MCM4; MC	P33991; A0A3B3	MCM4	HUM	Unmodified	2527900	2220100	2217800	0	0	0	0	0	0
FIDPLAKEEENVGIDITEPLYMQR	MCM4; MCM4; MC	P33991; A0A3B3	MCM4	HUM	Oxidation (M)	3903400	0	0	0	0	0	0	0	0
FIDTSQFILNR	TIMM8A	O60220	TIM8A	HUM	Unmodified	393300	620290	0	0	0	0	0	0	0
FIDTSQFILNRLEQTQK	TIMM8A	O60220	TIM8A	HUM	Unmodified	2503400	2134900	3037600	0	0	0	0	0	0
FIDTSQFILNRLEQTQK	TIMM8A	O60220	TIM8A	HUM	Deamidation (N)	500770	616480	617510	0	0	0	0	0	0
FIDTTSK	RPL3L; RPL3; RPL3	Q92901; P39023;	RL3L	HUMA	Unmodified	18578000	14201000	14170000	303370	286430	326650	0	0	0
FIDVGGYK	PPP1R10	Q96QC0	PP1RA	HUM	Unmodified	0	0	2045500	38967	0	50620	23421	0	18461
FIDYGNYEEVLLSNIK	TDRD3	Q9H7E2	TDRD3	HUM	Unmodified	0	0	67074	0	0	0	0	0	0
FIEAAQR	COPS4; COPS4; COP	Q9BT78; D6RAX	CSN4	HUMA	Unmodified	456500	340980	621540	0	0	0	0	0	0
FIEDELQIPVK	ADSS2	P30520	PURA2	HUM	Unmodified	981140	530500	1875900	7559.7	0	0	0	0	0
FIEDELQIPVKWIGVGK	ADSS2	P30520	PURA2	HUM	Unmodified	1674500	503400	1083000	0	0	0	0	0	0
FIEEHATK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	2190400	2725000	3131200	77691	0	0	0	0	0
FIEEHATKLSR	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	0	1099200	847550	88143	0	65090	0	0	0
FIEELKGGTKK	OS9; OS9	Q13438; B4E321	OS9	HUMA	Unmodified	470610	506090	410420	0	0	0	0	0	0
FIEFNAK	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	1374200	1026900	1450600	11396	16687	15953	0	0	0
FIEIAAR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	15922000	11949000	14402000	109110	122460	137040	16549	0	0
FIEKDIQYPFLGPVPTR	NAA25	Q14CX7	NAA25	HUM	Unmodified	1560200	1027400	884190	0	0	0	0	0	0
FIGPSPEVVR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMA	Unmodified	4024400	4072000	4091800	326500	328170	294100	26546	15540	15227
FIGPSPEVVRK	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMA	Unmodified	2290600	1940600	2016200	152590	0	143780	0	0	0
FIGSPGVYVGHEEGGQLTK	CLPB; CLPB; CLPB;	Q9H078; A0A2U3	CLPB	HUMA	Unmodified	2076800	1686900	2475200	0	0	0	0	0	0
FIHDQTSPNPK	SLC25A1; SLC25A1	P53007; B4DP62	TXTP	HUMA	Unmodified	1838200	1662400	2152200	173130	35586	0	0	0	0
FIHQQPQSSSPVYGSSAK	PXN; PXN; PXN; PX	P49023; F5H836;	PAXI	HUMA	Unmodified	0	440340	1110400	0	97640	143430	81444	0	0
FIIDNTK	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	Unmodified	726510	2111100	667240	0	0	0	0	0	0
FIIDNTKGQMLGLGNPSFSDPFTGGGR	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	Oxidation (M)	1107500	1455900	1415900	0	0	0	0	0	0
FIIHAPPGEFNEVFNDVR	CAPZA2; CAPZA2; (	P47755; A0A0D9	CAZA2	HUM	Deamidation (N)	4822900	2819800	3572200	0	0	0	0	0	0
FIIHAPPGEFNEVFNDVR	CAPZA2; CAPZA2; (	P47755; A0A0D9	CAZA2	HUM	Unmodified	5311000	3898600	5517000	0	0	0	0	0	0
FIIPNVVK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM	Unmodified	16176000	12035000	14128000	0	36963	0	0	0	0
FIIPQIVK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB	HUM	Unmodified	8106400	5806800	6063600	36449	39933	45957	40027	55429	36552
FIITALPTIYHCK	TMX1	Q9H3N1	TMX1	HUM	Unmodified	1119500	915520	950910	0	0	0	0	0	0
FIKFQEMKMQEHSDQVPVGNIPR	MCM7; MCM7	P33993; C9J8M6	MCM7	HUM	2 Oxidation (M)	197660	0	2031300	0	0	0	0	0	0
FILAPAKQEDEWDKPR	P4HA1	P13674	P4HA1	HUM	Unmodified	4096700	0	4859200	40496	0	33240	0	0	0
FILNLPTFSVR	PSMB2; PSMB2	P49721; A0A087	PSB2	HUMA	Unmodified	2672100	1788200	2161000	0	0	0	0	0	0
FILPEGASQGMTPFR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Oxidation (M)	752230	846660	1809300	31370	0	27816	0	0	0
FIMDLVSSLSR	MME; MME	P08473; A0A7U2	NEP	HUMA	Oxidation (M)	6040900	3257800	2355300	0	0	0	0	0	0
FIMESGAK	RPS3; RPS3; RPS3	P23396; H0YEU2	RS3	HUMA	Unmodified	4793000	4601000	3547300	0	76963	70684	0	0	0
FINDQYEK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9	HUM	Unmodified	1266200	1455300	1422800	0	0	0	0	0	0
FINVPPQIALPMYQQLQK	BCCIP	Q9P287	BCCIP	HUM	Oxidation (M)	1121400	1069800	1202800	0	0	0	0	0	0
FINYVKNCFR	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUMA	Deamidation (N)	4052500	4486700	3245300	170960	129170	0	0	0	0
FIPEITISDILR	L2HGDH; L2HGDH	Q9H9P8; C9JVN9	L2HDH	HUM	Unmodified	142170	64379	126140	0	0	0	0	0	0
FIPGKPVLETR	NFU1	Q9UMS0	NFU1	HUM	Unmodified	1669000	1864700	1204200	0	0	0	0	0	0
FIPHKDYTANR	MCMBP	Q9BTE3	MCMBP	HUM	Unmodified	631960	642180	778310	0	0	0	0	0	0
FIPLAELK	THYN1	Q9P016	THYN1	HUM	Unmodified	7135900	6050900	4713500	47723	45626	45748	0	0	0
FIPLSEPAPVPPIPNEQQLAR	COPS8; COPS8; COP	Q99627; H7C3S9;	CSN8	HUMA	Unmodified	7082900	3840300	6341800	21337	0	0	0	0	0
FIPLSEPAPVPPIPNEQQLAR	COPS8; COPS8; COP	Q99627; H7C3S9;	CSN8	HUMA	Deamidation (N)	2013300	1527900	1295000	0	0	0	0	0	0
FIPRENGVYLIDVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Deamidation (N)	4366100	3119700	1638100	17022	0	13020	27470	58707	20667
FIPYTEEFSEKLEAEYKK	SEC23IP	Q9Y6Y8	S23IP	HUMA	Unmodified	1273100	903480	1040600	0	0	0	0	0	0
FIQENIFGICPHMTEDNKDLIQGK	PDIA3	P30101	PDIA3	HUM	Oxidation (M)	1326200	1074700	1649100	0	0	0	0	0	0
FIQPNIGELPTALK	CKAP5	Q14008	CKAP5	HUM	Unmodified	952630	1022500	519820	0	0	0	0	0	0
FIQQTYPSGGEEQAQYCR	PDCD6IP; PDCD6IP;	Q8WUM4; F8WEI	PDC6I	HUM	Unmodified	680690	579530	774080	0	41220	0	0	0	0
FIQTTASTRPSVSAPTVR	SBNO1	A3KN83	SBNO1	HUM	Unmodified	0	289910	0	0	0	0	0	0	0
FISADVHGIWSR	UBA6	A0AVT1	UBA6	HUM	Unmodified	0	846910	0	0	0	0	0	0	0
FISDKDASIVGFFDDSFSEAHSEFLK	PDIA3	P30101	PDIA3	HUM	Unmodified	1450300	246920	897810	0	0	0	0	0	0
FISELAR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Unmodified	4838000	4374800	4079700	500300	487950	639720	0	0	0
FISETLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	2147400	1291700	1877500	168170	214050	195510	12498	15790	19187
FISGSMAGATAQTFIYPMEVMK	SLC25A24	Q6NUK1	SCMC1	HUM	3 Oxidation (M)	5960300	5261300	6294600	0	0	0	0	0	0
FISVGYVDDTQFVR	HLA-E; HLA-B; HLA	P13747; P01889;	HLAE	HUMA	Unmodified	558210	419530	756660	0	0	10549	58895	0	0
FITAASAAR	AADAT; AADAT; AA	Q8N5Z0; D6RC56	AADAT	HUM	Unmodified	1594300	1532700	1865300	32215	28976	29664	0	0	0
FITDNTVEER	SMARCA5	O60264	SMCA5	HUM	Deamidation (N)	605140	817360	728390	0	0	27705	0	0	0
FITDNTVEER	SMARCA5	O60264	SMCA5	HUM	Unmodified	0	1458000	2675400	0	0	0	0	0	0
FITEPVSGAEMGTLR	CGN; CGN; CGN	Q9P2M7; A2A3M	CING	HUMA	Oxidation (M)	0	0	497000	442360	392930	469820	0	50017	0
FITHAPPGEFNEVFNDVR	CAPZA1	P52907	CAZA1	HUM	Deamidation (N)	11966000	11781000	10738000	39973	22167	14616	0	0	0
FITHAPPGEFNEVFNDVR	CAPZA1	P52907	CAZA1	HUM	2 Deamidation (N)	4442700	3013600	3246300	0	0	0	0	0	0
FITHAPPGEFNEVFNDVR	CAPZA1	P52907	CAZA1	HUM	Unmodified	18619000	14052000	12973000	24785	0	20210	0	0	0
FITYPFDQNR	PAF1	Q8N7H5	PAF1	HUM	Unmodified	0	744820	710530	14720	0	0	0	0	0
FIVNTLK	RPA1; RPA1; RPA1	P27694; I3L524; I	RFA1	HUM	Unmodified	1161500	1202600	1195400	0	0	0	0	0	0
FIVYSYK	GMFB; GMFB	P60983; G3V4P8	GMFB	HUM	Unmodified	4592600	0	4284800	35986	41116	38452	0	0	0
FIYEAWQGVER	MCRIP1; MCRIP1; N	C9JLW8; I3L2L5;	MCRI1	HUM	Unmodified	885530	0	1496600	13482	0	0	0	0	0
FIYMAVQHYIETLQR	PTPN11	Q06124	PTN11	HUM	Oxidation (M)	1503200	1411700	2095700	0	0	0	15349	0	0
FKARPELEELLAK	MRPL48; MRPL48; I	Q96GC5; F5H8D0	RM48	HUM	Unmodified	0	2438900	0	0	0	0	0	0	0
FKARPELEELLAKLK	MRPL48; MRPL48; I	Q96GC5; F5H8D0	RM48	HUM	Unmodified	387300	313970	0	0	0	0	0	0	0
FKDIFQEIFDKHYK	IDH2; IDH2	P48735; H0YL11	IDHP	HUM	Unmodified	2754500	2131600	2575400	0	0	0	0	0	0
FKDIFQEIYDK	IDH1	O75874	IDHC	HUM	Unmodified	736920	1184700	859270	0	0	0	0	0	0
FKDPGLVDQLVK	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUM	Unmodified	6231600	4823100	3606400	99063	101770	83087	27394	12411	19850
FKEANNFLWPFK	RPL7; RPL7	P18124; A8MUD5	RL7	HUMA	Deamidation (N)	2962800	3038500	3984800	0	0	0	0	0	0
FKEANNFLWPFK	RPL7; RPL7	P18124; A8MUD5	RL7	HUMA	2 Deamidation (N)	1282200	263920	1174500	0	0	0	0	0	0
FKEANNFLWPFK	RPL7; RPL7	P18124; A8MUD5	RL7	HUMA	Unmodified	748480	650980	1018800	0	0	0	0	0	0
FKEIAEAYDVLSDPR	DNAJB1; DNAJB1	P25685; M0QXK0	DNJB1	HUM	Unmodified	2055000	1270000	0	0	0	0	0	0	0
FKEKFEAGQFEPSETTAKS	COA6	Q5JTJ3	COA6	HUM	Unmodified	1680400	918170	1292500	0	42702	39131	0	0	0
FKEQLTPSQIMSLEK	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM	Oxidation (M)	1510300	2436200	1577600	31692	0	29452	0	0	0
FKEVIPISDPELK	PPP4R3A; PPP4R3A	Q6IN85; H0YJN6;	P4R3A	HUM	Unmodified	754850	584590	674740	0	0	0	0	0	0
FKGFPQPILSEDGSR	MYOF; MYOF	Q9NZM1; H0YD1	MYOF	HUM	Unmodified	677890	526360	688950	62349	54341	39173	0	0	0
FKGPTTDVVTTNLK	VAPA	Q9P0L0	VAPA	HUM	Unmodified	5230500	6224000	4881200	0	24392	33062	0	0	0
FKGTESISK	FKBP3	Q00688	FKBP3	HUM	Unmodified	5477000	5374100	6846800	159770	183040	124160	0	0	0
FKGTESISKVSEQVK	FKBP3	Q00688	FKBP3	HUM	Unmodified	739420	895260	725920	0	0	0	0	0	0
FKILDAVVAQEPLHR	EFTUD2; EFTUD2; E	Q15029; K7EP67;	USS1	HUM	Unmodified	997330	563420	559930	0	0	0	0	0	0
FKIPGSPPESMGR	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB	HUMA	Oxidation (M)	23463000	19703000	18047000	1403300	1050900	999570	85613	138600	90252
FKKEDEIPETVSLEMLDAAK	FAM162A; FAM162/	Q96A26; F8W7Q4	F162A	HUM	Oxidation (M)	0	2933800	0	0	0	0	0	0	0
FKKYEEIDNAPEER	TUFM	P49411	EFTU	HUM	Unmodified	3837900	4034600	1770300	238550	199560	60059	13678	0	15978
FKLEESYDMESVLR	SERPINB6; SERPINE	P35237; A0A087	SPB6	HUMA	Oxidation (M)	3900700	4316000	3879900	94931	45970	0	130050	59934	75748
FKLVFLGEQSVGK	RAB6A; RAB6B; RA	P20340; Q9NRW1	RAB6A	HUM	Unmodified	487770	648560	816880	0	0	0	0	0	0
FKMPEMNIKAPK	AHNAK	Q09666	AHNK	HUM	2 Oxidation (M)	0	0	0	618390	0	525440	0	0	0

FKNKKSEK	FKBP1A; FKBP1A	A0A7I2V3S6; A0/	A0A7I2V3S6	2 Methyl (KR);Dea	1241100	1059600	1413900	45836	0	0	15393	0	0
FKNMFLVGEGDSVITQVLNK	PSIP1	O75475	PSIP1	HUMA Oxidation (M);Dea	1019100	1039600	1189900	0	0	0	0	0	0
FKPAYNPYTEPSMEVFSYHQGLKK	FARSA; FARSA; FAI	Q9Y285; K7ER00	SYFA	HUMA Oxidation (M)	2571600	807260	3396600	0	0	0	0	0	0
FKPGVISEELQDALGVTDK	ZCCHC8; ZCCHC8; ;	Q6NZY4; F5H6J5	ZCHC8	HUM Unmodified	0	0	2365500	0	0	0	0	0	0
FKQISQAYEVLSDAK	DNAJA1	P31689	DNJA1	HUM Unmodified	634930	363090	585500	0	0	0	0	0	0
FKQLQDEREAVQK	SPTBN2	A0A494C1G7	A0A494C1G7	Unmodified	432440	667350	662160	101950	152710	0	0	0	0
FKSEEQAMKAER	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B	HUM Oxidation (M)	1367200	1356600	1182200	0	0	0	0	0	0
FKTPEEAALFK	RANBP2	P49792	RBP2	HUMA Unmodified	722370	687960	768830	0	0	0	0	0	0
FKVDLTPYPTISSINKR	GSTZ1; GSTZ1; GST	O43708; G3V5T0	MAAI	HUMA Unmodified	1158400	1050300	757450	0	0	0	0	0	0
FKVESEQQYFEIEKR	TPR; TPR	P12270; Q5SWX9	TPR	HUMAN Unmodified	5162600	3536300	2527600	0	0	0	0	0	0
FLAAGTHLGGTNLDFQMEQYIYK	RPSA; RPSA; RPSA;	P08865; A0A0C4I	RSSA	HUMA Oxidation (M)	2171300	0	0	0	0	0	0	0	0
FLADFRDLTSWVTEMK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM. Oxidation (M)	837320	301460	661510	0	0	0	0	0	0
FLATEGAPDFLCPEELEHVSR	FAM83H; FAM83H	Q6ZRV2; A0A494	FA83H	HUM. Unmodified	1034800	437750	0	0	0	0	0	0	0
FLATTPNSLLVSWQPPR	FN1; FN1; FN1	P02751; H0Y7Z1;	FINC	HUMAI Unmodified	1210000	1285400	1123700	0	0	0	0	0	0
FLAVGLVDNTVR	SF3B3	Q15393	SF3B3	HUM. Unmodified	3464300	2981600	3878900	146540	109690	87872	0	13550	10010
FLAVGLVDNTVR	SF3B3	Q15393	SF3B3	HUM. Deamidation (N)	907660	835930	918850	20585	0	17777	0	0	0
FLCADYAEQDELDYHR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU	HUM Unmodified	1096300	1535300	1144200	28283	0	0	0	0	0
FLDAGHKLNFAVASR	PDIA3	P30101	PDIA3	HUM. Unmodified	1928500	1378000	1209800	0	0	0	0	0	0
FLDASGAK	BZW1; BZW1; BZW	Q7L1Q6; C9IZ80;	BZW1	HUM. Unmodified	3798800	3048800	4236000	0	0	37320	0	0	0
FLDELEDEAK	COA3	Q9Y2R0	COA3	HUMA Unmodified	2239500	1830700	1683600	61619	58764	66196	0	0	0
FLDFIGHILT	PIP4K2A; PIP4K2A	P48426; H7BXS3	PI42A	HUMA Unmodified	434540	132600	450570	0	0	0	0	0	0
FLDGIYVSEK	RPL9; RPL9; RPL9;	P32969; H0Y9V9;	RL9	HUMAN Unmodified	9260700	7943000	8909500	264640	0	231540	35141	0	19138
FLDKPEDVLLK	EPB41L1; EPB41L1;	Q9H4G0; H7C2K4	E41L1	HUM. Unmodified	0	359840	0	0	0	0	0	0	0
FLDLLEPLGR	SPTB; SPTB	P11277; H0YJE6	SPTB1	HUM. Unmodified	898260	853730	832090	0	0	0	0	0	0
FLDLLEPLGRR	SPTB; SPTB	P11277; H0YJE6	SPTB1	HUM. Unmodified	1289000	1701700	996710	0	0	0	0	0	0
FLDPEFRELDLAR	ZNF318	Q5VUA4	ZN318	HUM. Unmodified	1335600	797780	1040600	0	0	0	0	0	0
FLDPITGTFR	USP8	P40818	UBP8	HUMA Unmodified	0	908330	1942200	22101	22265	22666	0	0	0
FLDQERSNKMRNMAK	NSRP1; NSRP1	Q9H0G5; A0A024	NSRP1	HUM 3 Methyl (KR);2 D	5347400	0	0	0	0	0	0	0	0
FLDQNLQK	DSP	P15924	DESP	HUMA Unmodified	1780900	1589000	1494900	16783	44360	54805	0	0	0
FLDSTGSR	BZW2; BZW2; BZW	Q9Y6E2; Q75MG	BZW2	HUM. Unmodified	1595500	964980	1435300	12669	7521.2	0	0	0	0
FLEEEVYPLLKPYESVMK	ADSL; ADSL; ADSL	P30566; A0A7P0	PUR8	HUMA Oxidation (M)	4104700	2718500	4515600	0	0	0	0	0	0
FLEEFITPIVK	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B	HUM Unmodified	2110800	1709900	1829600	0	0	0	0	0	0
FLEEGNLEEAEIQKQR	OSBPL3	Q9H4L5	OSBL3	HUM Unmodified	2781200	1704500	2929700	0	0	0	0	0	0
FLEEGNLEEAEIQKQRIEQLQR	OSBPL3	Q9H4L5	OSBL3	HUM Unmodified	0	574750	605450	0	0	0	0	0	0
FLEESVSMSPEER	UCHL3; UCHL3; UC	P15374; Q5TBK7	UCHL3	HUM Oxidation (M)	1995400	1904300	1481500	0	0	76955	0	0	0
FLEETNR	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B	HUM Unmodified	1445300	1389200	1466800	0	48368	30958	0	0	0
FLEETNRLYAAEGQK	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B	HUM Unmodified	1760800	1533400	1059400	73068	86946	87044	0	0	0
FLEETNRLYAAEGQK	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B	HUM Deamidation (N)	0	846070	846590	0	26841	20222	0	0	0
FLEFQYLTGGLVDPEVHGR	DSP	P15924	DESP	HUMA Unmodified	22345000	14249000	17320000	23057	0	28614	0	0	0
FLEHLSGAGK	PFKP	Q01813	PFKAP	HUM Unmodified	0	0	1199100	0	0	0	0	0	0
FLEMHQL	PSAT1	Q9Y617	SERC	HUMA Oxidation (M)	748820	940830	694700	0	0	0	0	0	0
FLENEDR	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA Unmodified	1232400	1561800	1072900	0	0	0	0	0	0
FLENEDRR	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA Unmodified	2525700	2152800	2136600	0	91108	116530	0	15133	0
FLEPTLR	DARS1; DARS1	P14868; H7BZ35	SYDC	HUMA Unmodified	643630	511390	593180	0	0	0	0	0	0
FLEQLQELDAK	VPS52	Q8N1B4	VPS52	HUM. Unmodified	0	0	0	0	0	0	0	0	0
FLEQQNKILLAELEQLKGQGK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA Deamidation (N)	12784000	9644200	12817000	0	0	0	0	0	0
FLEQQNKILLAELEQLKGQGK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA Unmodified	30630000	22167000	28561000	35624	14301	21045	18835	0	0
FLESGGQDGAGDDDDLEDLEEAEEPDMEEDDDQKAVKDEL	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM. Oxidation (M)	3366800	0	5668700	0	0	0	0	0	0
FLESLPEEEQQR	UBTF; UBTF	P17480; E9PKP7	UBF1	HUMA Unmodified	1344800	3728600	3341700	312120	0	355880	0	0	0
FLESLPEEEQQRVLGEEK	UBTF; UBTF	P17480; E9PKP7	UBF1	HUMA Unmodified	1836400	1972200	3635700	0	0	0	0	0	0
FLESNPVMIDAK	DNMT3A; DNMT3A	Q9Y6K1; A0A0C4	DNM3A	HUM Oxidation (M)	1744700	1068700	1462200	0	19491	0	0	0	0
FLESPDFQPNIAK	PPP2R5D; PPP2R5C;	Q14738; Q13362;	2A5D	HUMA Unmodified	846130	0	0	0	0	0	0	0	0
FLESTDSFNNELKR	SMARCE1; SMARCE	Q969G3; A0A2R8	SMCE1	HUM Unmodified	950340	612960	0	0	0	0	0	0	0
FLEVQYLTGGLIEPDTPGR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA Unmodified	458460	0	380160	0	0	0	0	0	0
FLFENQTPAHVYYR	U2SURP; U2SURP	O15042; E7ET15	SR140	HUM. Deamidation (N)	415850	1247000	329120	0	0	0	0	0	0
FLFENQTPAHVYYR	U2SURP; U2SURP	O15042; E7ET15	SR140	HUM. Unmodified	1085300	1124600	960440	0	0	0	0	0	0
FLFPEYILDPEPQPTR	NOA1	Q8NC60	NOA1	HUMA Unmodified	1133300	1065200	1191600	0	0	0	0	0	0
FLFPEYILDPEPQPTREK	NOA1	Q8NC60	NOA1	HUMA Unmodified	1121300	1122000	1115900	0	0	0	0	0	0
FLFSLFGQK	AIMP2; AIMP2	Q13155; A8MU58	AIMP2	HUM. Unmodified	763630	535240	798770	0	0	0	0	0	0
FLGDKVTSYGGELR	HSPG2	P98160	PGBM	HUM. Unmodified	3311600	3339500	3361400	72756	51586	48086	38466	28843	44973
FLGGDMEHTHLVK	IK; IK; IK	Q13123; D6REL4	RED	HUMAN Oxidation (M)	708180	693410	600040	0	0	0	0	0	0
FLGLTER	EPHX1	P07099	HYEP	HUMA Unmodified	649660	582720	785700	0	0	0	0	0	0
FLGRDPKQDAFLLSK	THOP1; THOP1; THO	P52888; K7EL02;	THOP1	HUM Unmodified	684660	724280	738680	0	27045	0	0	0	0
FLGSGGFIGYAPNLSK	PLOD1; PLOD1; PLC	Q02809; Q5JXB8;	PLOD1	HUM Unmodified	948150	484220	865620	0	0	0	0	0	0
FLGTEPEPDAVGLDSGHIR	TST	Q16762	THTR	HUMA Unmodified	7659200	9817900	6917400	373090	465580	318740	129990	85545	29917
FLGTEVLLR	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B	HUM Unmodified	3302200	4173200	4912500	16392	0	0	0	0	0
FLGTSGQNVSDIFR	POLD2; POLD2; POI	P49005; A0A087	DPOD2	HUM Unmodified	4980800	4247800	3744200	12188	0	0	0	0	0
FLGTVEKEATFSNPK	CSDE1; CSDE1	O75534; E9PLT0	CSDE1	HUM Unmodified	708230	0	1278500	18675	0	0	0	0	0
FLGTVPHFYR	SYTL2; SYTL2; SYT	A0A0U1RQP0; A(	A0A0U1RQP(	Unmodified	0	0	0	33849	38579	0	0	0	0
FLHMLSNPVDLSNPAIISSTPK	RALGAPB; RALGAI	Q86X10; A2A2F0	RLGPB	HUM Oxidation (M)	1386500	1866800	344670	0	0	0	0	0	0
FLHQDIDSGQGIR	IGF2R; IGF2R	P11717; A0A7I2	MPRI	HUMA Unmodified	1237900	2569100	1924400	0	0	0	0	0	19105
FLICTDVAAR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUMA Unmodified	1722800	1917500	1799900	93951	110270	150050	18263	17163	16781
FLIDGFPR	CMPK1; CMPK1; CN	P30085; Q5T0D2	KCY	HUMA Unmodified	1054600	1259600	1137900	107450	93458	99419	0	0	0
FLIDNPSEKITEIELR	CPSF2	Q9P2I0	CPSF2	HUM. Unmodified	1203200	1191000	8456300	0	0	0	0	0	0
FLIIDEADR	DDX51	Q8N8A6	DDX51	HUM Unmodified	611620	535380	778860	0	0	0	0	0	0
FLILLGSPK	HPSE; HPSE; HPSE;	Q9Y251; D6RAQ1	HPSE	HUMA Unmodified	1308300	1212300	1450900	0	0	0	0	0	0
FLILPDMLK	SNRPD3	P62318	SMD3	HUMA Oxidation (M)	24694000	19396000	17593000	224400	257420	205300	46519	0	0
FLILQGEVEQIAMMK	SMC4; SMC4; SMC4	Q9NTJ3; E9PD53	SMC4	HUMA Unmodified	0	0	5712300	0	0	0	0	0	0
FLILQGEVEQIAMMKPK	SMC4; SMC4; SMC4	Q9NTJ3; E9PD53	SMC4	HUMA 2 Oxidation (M)	0	0	0	0	0	0	0	0	0
FLINLEGGDIR	IARS2	Q9NSE4	SYIM	HUMA Unmodified	962760	0	831770	0	0	0	0	7446	0
FLINLEGGDIREESSYK	IARS2	Q9NSE4	SYIM	HUMA Unmodified	1603100	1531300	1368300	0	0	0	0	0	0
FLIPNASQAESK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z	HUMA Unmodified	13456000	10870000	11757000	0	0	0	0	0	0
FLIPNASQAESKVFYLK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z	HUMA Unmodified	1135600	1105100	1657100	13047	0	0	0	0	0
FLIPNASQAESKVFYLK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z	HUMA Deamidation (N)	2683100	2765400	2762000	0	0	0	0	0	0
FLIPNASQAESKVFYLK	YWHAZ; YWHAZ; Y	P63104; B0AZS6;	1433Z	HUMA Methyl (KR)	462290	174250	0	0	0	0	0	0	0
FLIQNVLR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUMA Unmodified	781090	1592200	0	10510	0	16945	0	0	0
FLISPEFFTVLHSNPSAYR	HECW2; HECW2; HI	Q9P2P5; A0A2R8	HECW2	HUM Unmodified	176850	201010	169090	0	0	0	0	0	0
FLKGEGLQLMNLMLR	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1	HUM 2 Oxidation (M)	781510	1523200	601030	0	0	0	0	0	0
FLLADNLYCK	VBP1	P61758	PFD3	HUMA Unmodified	1946200	1398300	1885100	78683	34433	43620	0	0	0
FLLDHQGELFPSPDPSGL	ARHGAP1	Q07960	RHG01	HUM Unmodified	4032000	3880300	3699000	0	0	0	0	0	0
FLLDTNK	MCM6	Q14566	MCM6	HUM. Unmodified	0	0	3676300	0	29839	24336	0	0	0
FLLHQETLPEQLLAEK	NUP133	Q8WUM0	NU133	HUM. Unmodified	0	2855400	2385100	0	0	0	0	0	0
FLLPIVVR	PPP4R1; PPP4R1; PP	Q8TF05; J3KRU1	PP4R1	HUM Unmodified	221050	234950	243670	0	0	0	0	0	0
FLLSESGSGK	HK1	P19367	HXK1	HUM Unmodified	4297500	4878200	231680	0	133610	378540	0	0	0
FLLYDQTK	POLDIP2; POLDIP2	Q9Y2S7; B4DEM	PDIP2	HUMA Unmodified	777920	726570	661380	0	0	21072	0	0	0
FLLYDQTKAPPFVAR	POLDIP2; POLDIP2	Q9Y2S7; B4DEM	PDIP2	HUMA Unmodified	924220	1131700	662160	14342	0	0	0	0	0
FLMANGQLVK	GDI1; GDI2; GDI2; G	P31150; P50395; '	GDIA	HUMA Oxidation (M);Dea	7036100	5575300	6184400	0	65381	19741	0	0	0
FLNAENAQK	RANBP1; RANBP1; I	P43487; F6WQW	RANG	HUM. Deamidation (N)	5085200	4004300	3726900	0	0	0	0	0	0
FLNAENAQK	RANBP1; RANBP1; I	P43487; F6WQW	RANG	HUM. Unmodified	5411300	5604300	5418000	40332	104520	61507	0	0	0
FLNALTLNMIR	HIBCH; HIBCH	Q6NVY1; B8ZZZ0	HIBCH	HUM Oxidation (M)	598580	576900	850600	0	0	0	0	0	0
FLNDTTKPVGLLLSER	BCCIP	Q9P287	BCCIP	HUM. Deamidation (N)	0	0	0	0	0	0	0	0	0
FLNEMIAPVMR	PCYOX1; PCYOX1;	Q9UHG3; F8W8V	PCYOX	HUM 2 Oxidation (M);De	489300	434990	0	0	66027	42767	0	0	0
FLNESYKHEQVYIR	ACP3	P15309	PPAP	HUMA Deamidation (N)	0	0	0	318190	374160	245820	0	0	0
FLNESYKHEQVYIR	ACP3	P15309	PPAP	HUMA Unmodified	0	0	0	178490	164010	162660	0	0	0
FLNPDEVHAILR	FAM83D; FAM83D	Q9H4H8; A0A087	FA83D	HUM. Unmodified	785450	1370800	940650	0	0	0	0	0	0
FLNRHDLDLICR	PPP1CB	P62140	PP1B	HUMA Unmodified	937380	2295300	0	0	0	0	0	0	0
FLNSGGFIGFATTIHQIVR	PLOD3	O60568	PLOD3	HUM Deamidation (N)	82839	12480	39325	0	0	0	0	0	0
FLPEEEKLTEQER	KIFBP; KIFBP; KIFB	Q96EK5; A0A6Q8	KBP	HUMAN Unmodified	2411200	1940500	2932000	90319	135690	93121	0	0	0
FLPFKVVEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUMAN Unmodified	1679800	1857000	1534800	0	37715	46030	0	0	0
FLPFKVVEKK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUMAN Unmodified	7447000	7866400	7317400	169940	203050	185150	0	0	0
FLPFSFEHIR	ATP6V0A1; ATP6V0	Q93050; B7Z641;	VPP1	HUMA Unmodified	1087600	0	0	0	0	0	0	0	0
FLPGFLLPGPLAYSSR	BBS9; BBS9; BBS9;	Q3SYG4; A0A5F9	PTHB1	HUM Unmodified	0	31719	0	0	0	0	0	0	0
FLPGMAIGYSSSK	SRM; SRM	P19623; K7EQ47	SPEE	HUMA Oxidation (M)	2658400	2184900	2557300	0	0	0	0	0	0
FLPLFDR	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUMA Unmodified	219050000	194540000	230690000	194040	327830	0	0	0	55749
FLPLFDRVLVER	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUMA Unmodified	97508000	94332000	111250000	0	0	0	56115	43674	14229
FLPSELRDEH	TLN1	Q9Y490	TLN1	HUMA Unmodified	3731300	3909800	4164900	278560	210100	269130	198950	190950	151100
FLPSYQAVEYMR	AGA; AGA	P20933; H0Y9C7	ASPG	HUMA Oxidation (M)	13574000	13670000	14376000	328930	272460	342140	0	83170	75689
FLQDYFDGNLK	PDIA3	P30101	PDIA3	HUM. Unmodified	5804700	3009000	3672600	27002	29357	55562	0	28472	21232
FLQDYFDGNLKR	PDIA3	P30101	PDIA3	HUM. Unmodified	69038000	66222000	71095000	956050	879490	867230	54743	44770	57390
FLQDYFDGNLKR	PDIA3	P30101	PDIA3	HUM. Deamidation (N)	24039000	20964000	19327000	92851	56733	100900	0	0	0
FLQDYFDGNLKR	PDIA3	P30101	PDIA3	HUM. Methyl (KR)	1196100	1243700	1186200	38312	0	40440	0	0	0
FLQEEAEK	PLEC	Q15149	PLEC	HUMA Unmodified	593500	568030	564420	0	0	157670	0	0	0
FLQEEAEKMKQVAEEAAR	PLEC	Q15149	PLEC	HUMA Oxidation (M)	2500700	3059800	1571500	177280	161430	47630	0	0	0
FLQEFYQDDELGKK	MCM7	P33993	MCM7	HUM. Unmodified	2591000	1822500	1589700	0	0	0	0	0	0
FLQEHGSDSFLAEHK	FKBP3	Q00688	FKBP3	HUM Unmodified	8188500	7995600	9307500	0	67071	0	0	0	0
FLQEHGSDSFLAEHKLLGNIK	FKBP3	Q00688	FKBP3	HUM Unmodified	782770	0	662670	0	0	0	0	0	0
FLQEQR	NELFB; NELFB	Q8WX92; A0A5H	NELFB	HUM Unmodified	1026100	0	0	0	0	0	0	0	0
FLQFFK	TNPO2; TNPO1; TNI	O14787; Q92973;	TNPO2	HUM Unmodified	795030	2380600	1891100	33120	16554	15230	0	0	0
FLQFVTGTSK	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUM Unmodified	1807500	1615600	916520	23094	17878	19163	0	0	0
FLQLTPER	CCS; CCS; CCS	O14618; E9PK03;	CCS	HUMAN Unmodified	3513500	3647100	4614500	94663	73515	40112	0	0	0
FLQPVQK	SEC23A; SEC23A	Q15436; F5H365	SC23A	HUM. Unmodified	581890	697850	661200	51131	68919	78005	0	0	0
FLQTEDSWVPASPDTGLDPLTVR	RPP25L	Q8N5L8	RP25L	HUM. Unmodified	305880	39284	281610	0	0	0	0	0	0

FLRENPYYDSR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	22104000	20280000	21972000	832830	928090	948650	203020	163500	174050
FLREPVVTPQDLEGPGR	MAP1S	Q66K74	MAP1S_HUM	Unmodified	1954400	2283300	1905700	0	0	0	0	0	0
FLREPVVTPQDLEGPGRAESK	MAP1S	Q66K74	MAP1S_HUM	Unmodified	1775300	0	1505200	0	0	0	0	0	0
FLRPGDDSSHDLMLLR	KLK3; KLK3; KLK3;	P07288; M0R1Z7	KLK3_HUMA	Oxidation (M)	0	0	0	0	25423	0	213990	167510	225710
FLSAEAIGIMR	PKN1	Q16512	PKN1_HUMA	Oxidation (M)	0	1132700	411710	0	0	0	0	0	0
FLSDPQVHTVLVER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	23924000	21327000	25575000	693920	636940	566360	0	0	0
FLSDRWMLQK	CBS; CBSL; CBS	P35520; P0DN79;	CBS_HUMAN	Oxidation (M)	454630	604680	456990	0	0	0	0	0	0
FLSEMLK	DSP	P15924	DESP_HUMA	Oxidation (M)	7517000	6639900	6420300	25929	54521	75546	0	0	0
FLSFPTTK	HBA1; HBA2; HBA2	P69905; G3V1N2;	HBA_HUMAI	Unmodified	0	0	0	176400	177440	196920	31644	0	32091
FLSGLELVK	TP53RK; TP53RK	Q96S44; Q5JZ02	PRPK_HUMA	Unmodified	2542400	1569300	1767100	33626	27688	0	0	0	0
FLSNGHVTIPGQQDKDMFQETMEAMR	MYH9	P35579	MYH9_HUM	3 Oxidation (M);De	22843000	24342000	20879000	486660	666000	208890	0	57733	0
FLSPEFIPR	MRPL19; MRPL19	P49406; A0A0A0	RM19_HUMA	Unmodified	8167300	7329700	7970500	469360	499900	515620	51528	0	0
FLSPQDTFEALKR	RBM12	Q9NTZ6	RBM12_HUM	Unmodified	9372300	6326400	8309800	63810	52262	0	0	0	11017
FLSQIESDRLALLQVR	HKDC1; HK1	Q2TB90; P19367	HKDC1_HUM	Unmodified	4767800	3928100	3394300	0	0	0	0	0	0
FLSQLLER	ARHGEF2; ARHGEF	Q92974; V9GYM3	ARHG2_HUM	Unmodified	439780	507370	643770	0	0	0	0	0	0
FLSQPFQVAEVFTGHMGK	ATP5F1B	P06576	ATPB_HUMA	Oxidation (M)	34683000	41829000	34683000	51999	27391	68398	0	30599	34222
FLSSAAAVSK	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	2277600	1859800	2385700	0	0	0	0	0	0
FLSVLER	EPHX1	P07099	HYEP_HUMA	Unmodified	1765000	1467100	1787400	31922	31475	31350	0	0	0
FLSVLERQ	EPHX1	P07099	HYEP_HUMA	Unmodified	5783000	4679300	3938600	691350	763040	756520	127390	136480	125710
FLTAVNLEHPEMLEK	GSTK1; GSTK1; GST	Q9Y2Q3; E9PFN5	GSTK1_HUM	Oxidation (M)	1331300	869960	5301400	48298	54605	0	0	0	0
FLTFAER	UTP20	O75691	UTP20_HUM	Unmodified	708210	1426200	357650	0	0	0	0	0	0
FLTLPPVLHLQLMR	USP7; USP7; USP7; I	Q93009; A0A669	UBP7_HUMA	Oxidation (M)	6668200	5528400	6308800	17363	0	0	0	0	0
FLTPIYHPNIDSAGR	UBE2T	Q9NPD8	UBE2T_HUM	Unmodified	1512900	1756500	2333700	0	0	15535	0	0	0
FLTSQTK	LRRC47	Q8N1G4	LRC47_HUM	Unmodified	1534000	2014800	1431700	0	0	0	0	0	0
FLTVMMK	RPS15A; N/A; RPS15	P62244; H3BN98;	RS15A_HUM	2 Oxidation (M)	983390	1038200	885900	24142	0	0	0	0	0
FLVEPQEDTR	USP11; USP11	P51784; G5E9A6	UBP11_HUM	Unmodified	1654700	1104500	1192300	0	0	0	0	0	0
FLVEPQEDTRLWAK	USP11; USP11	P51784; G5E9A6	UBP11_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FLVFNSK	GK2; GK; GK; GK; G	Q14410; P32189;	GLPK2_HUM	Deamidation (N)	500010	420770	516210	12829	0	0	0	0	0
FLVGFTNK	SSR1; SSR1; SSR1; S	P43307; C9J3L8;	SSRA_HUMA	Unmodified	2947600	2150000	2920600	33399	31900	28968	0	0	0
FLVGPDGVPLRR	GPX1; GPX1	P07203; A0A2R8	GPX1_HUMA	Unmodified	4128900	3459100	3211200	85947	163600	132070	0	7529.3	0
FLVLPSLGR	VRK3; VRK3; VRK3	Q8IV63; M0R073	VRK3_HUMA	Unmodified	955350	1051900	978100	9916.1	0	13721	0	0	0
FLVQNIHTLAELK	BRIX1	Q8TDN6	BRX1_HUMA	Unmodified	940920	835370	879260	0	0	0	0	8484.1	0
FLVSQNVDGLHVR	SIRT6; SIRT6	Q8N6T7; M0R1N	SIR6_HUMA	Unmodified	461870	363060	941280	0	0	0	0	0	0
FLVYVANFDEKDPR	GDI2; GDI2; GDI2	P50395; Q5SX87;	GDIB_HUMA	Unmodified	2259600	2477200	2536500	0	0	0	0	0	0
FLYIWPNAR	MCCC2; MCCC2	Q9HCC0; D6RD6	MCCB_HUM	Unmodified	1195100	719170	1565700	109000	114670	87594	0	0	0
FLYIWPNAR	MCCC2; MCCC2	Q9HCC0; D6RD6	MCCB_HUM	Deamidation (N)	0	594900	625520	22922	23150	25909	18663	28059	22254
FLYQLHETEKEDLIR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	2288500	1123200	1717800	0	0	0	0	0	0
FLYYEMGYK	GPD2	P43304	GPDM_HUM	Oxidation (M)	724270	596190	659870	0	0	0	0	0	0
FMAYEQIK	SLC25A25; SLC25A2	Q6KCM7; Q9BV3	SCMC2_HUM	Oxidation (M)	0	0	0	75834	0	70425	411310	341120	385230
FMDQHPEMDFSK	NUDC	Q9Y266	NUDC_HUM	2 Oxidation (M)	2866300	2701100	2062300	0	0	0	0	0	0
FMEDMMPK	RPEL1; RPE; RPE; R	Q2QD12; Q96AT9	RPEL1_HUM	3 Oxidation (M)	1913500	1932700	1640700	0	0	0	0	0	0
FMELLEPLNER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	1943000	2112100	0	0	30796	24704	0	0	0
FMELNLAQK	VBP1	P61758	PFD3_HUMA	Oxidation (M)	1737600	1795300	1635000	0	0	0	0	0	0
FMELNLAQKK	VBP1	P61758	PFD3_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
FMEPVTMQESGTFAFR	PLXNB2; PLXNB2	O15031; H0Y7X5	PLXB2_HUM	2 Oxidation (M)	911290	948280	938370	0	0	0	0	0	0
FMEQVIFK	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3_HUMA	Oxidation (M)	5057700	5187000	4872600	0	111980	109040	0	0	0
FMGPASGMNMSGMGGLGSLGDVSK	NKX2-1	P43699	NKX21_HUM	4 Oxidation (M)	1197900	0	1095300	0	0	0	0	0	0
FMGPASGMNMSGMGGLGSLGDVSK	NKX2-1	P43699	NKX21_HUM	4 Oxidation (M);De	1801400	1479500	1468400	0	0	0	0	0	0
FMGPASGMNMSGMGGLGSLGDVSKNMAPLPSAPR	NKX2-1	P43699	NKX21_HUM	5 Oxidation (M)	0	0	1798500	0	0	0	0	0	0
FMGTELNGKTLGILGLGR	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Oxidation (M);Deau	2892400	2024100	1290200	0	0	0	0	0	0
FMLCAGR	KLK3; KLK3; KLK3;	P07288; Q8NCW4	KLK3_HUMA	Oxidation (M)	0	0	0	39073	36017	50778	141700	92670	74990
FMLGKQEVIR	FKBP1A; FKBP1A; F	P62942; F6T7Q3;	FKB1A_HUM	Oxidation (M)	5343800	5200400	5580200	23607	0	0	0	0	0
FMLGKQEVIRGWEEGVAQMSVGQR	FKBP1A; FKBP1A; F	P62942; F6T7Q3;	FKB1A_HUM	2 Oxidation (M)	1555000	703450	0	0	0	0	0	0	0
FMLLFSR	AP1S1; AP1S2; AP1S	P61966; P56377; ;	AP1S1_HUM	Oxidation (M)	471330	479890	520250	0	0	0	0	0	0
FMMMRAENFFILR	ARPC4; ARPC4-TTL	P59998; A0A0A6	ARPC4_HUM	3 Oxidation (M);De	0	304750	0	0	0	0	0	0	0
FMNPFNMPNLYQK	STIP1; STIP1	P31948; F5H783	STIP1_HUM	2 Oxidation (M)	1561900	656460	504860	10553	0	13190	0	0	0
FMNPTDQAR	WBP11; WBP11; WB	Q9Y2W2; F5GXS9	WBP11_HUM	Oxidation (M)	843240	441490	1166000	0	0	0	0	0	0
FMPAGLIAGASLLMVAK	TMEM14C	Q9P0S9	TM14C_HUM	2 Oxidation (M)	0	209360	392470	0	0	0	0	0	0
FMQASEDLLK	NME1; NME1-NME2	P15531; J3KPD9;	NDKA_HUM	Oxidation (M)	1227200	1021000	964790	0	0	0	0	0	0
FMQTFVLAPEGSVANK	G3BP1; G3BP1; G3B	Q13283; A0A7Z1	G3BP1_HUM	Oxidation (M)	0	0	1464100	0	0	13758	0	0	0
FMRDNYPPGFSYADFGPQFTAR	FUCA1	P04066	FUCO_HUM	Oxidation (M)	1780300	0	0	0	0	0	0	0	0
FMRDVEPEDDPMFLMDPFAIHR	MLF2; MLF2; MLF2;	Q15773; F5H800;	MLF2_HUMA	3 Oxidation (M)	2067700	1857900	0	0	0	0	0	0	0
FMSAYEQR	SF3A2	Q15428	SF3A2_HUM	Oxidation (M)	4540500	4306800	1853600	102110	104080	130310	0	0	0
FMTTAMYDAR	UPF1	Q92900	RENT1_HUM	2 Oxidation (M)	2834600	2876800	3373400	214360	244040	273680	0	0	0
FMVQTIFAPPNTSDMEAVWK	VAPA	Q9P0L0	VAPA_HUMA	2 Oxidation (M)	1188400	882370	1387500	0	0	0	0	0	0
FMVQTIFAPPNTSDMEAVWK	VAPA	Q9P0L0	VAPA_HUMA	2 Oxidation (M);De	453190	211390	380540	0	0	0	0	0	0
FMYDPQTDQNIK	USP7; USP7; USP7; I	Q93009; A0A669	UBP7_HUMA	Oxidation (M)	1047600	1370700	0	0	0	0	158740	0	0
FNADEFEDMVAEKR	RPL10; RPL10; RPL	P27635; X1W128;	RL10_HUMA	Oxidation (M)	3473800	1066600	2495300	76066	67313	45678	0	0	0
FNALQYLR	LUM	P51884	LUM_HUMA	Unmodified	4116900	3209200	3900300	469750	357640	415860	153910	124350	108260
FNDEHIPESPYLVPVIAPSDDAR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Deamidation (N)	1202800	0	963750	0	0	0	0	0	0
FNDEHIPESPYLVPVIAPSDDAR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	606170	1039500	1292300	23145	0	0	0	0	0
FNDILGR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Deamidation (N)	3761000	3782900	2900200	72656	58706	34158	0	0	0
FNDILGR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Unmodified	1020600	1350400	717520	0	15266	0	0	0	0
FNEEHIPDSPFVVPVASPSGDAR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA_HUMA	Unmodified	5226800	13572000	11786000	0	0	86580	222510	0	105780
FNEEHIPDSPFVVPVASPSGDAR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA_HUMA	Deamidation (N)	11611000	10254000	10440000	31652	0	0	69658	18041	36309
FNEEHIPDSPFVVPVASPSGDARR	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA_HUMA	Unmodified	933930	926730	0	0	0	0	45278	34375	37393
FNEQIEPIYALLR	GTF2E1; GTF2E1	P29083; C9IYL4	T2EA_HUMA	Unmodified	571850	388870	424380	0	0	0	0	0	0
FNEVAAQYSEDKAR	PIN4; PIN4; PIN4; PI	Q9Y237; H0Y8P6	PIN4_HUMA	Unmodified	1035900	1516200	1115700	0	29058	27335	0	0	0
FNEVAAQYSEDKAR	PIN4; PIN4; PIN4; PI	Q9Y237; H0Y8P6	PIN4_HUMA	Deamidation (N)	576110	1282000	637090	34569	26923	25485	0	0	0
FNFFALLPHQR	NDUFAF7	Q7L592	NDUF7_HUM	Deamidation (N)	421730	266790	255640	0	0	0	0	0	0
FNFFALLPHQR	NDUFAF7	Q7L592	NDUF7_HUM	Unmodified	969000	1191300	1111900	0	0	0	0	0	0
FNFLAPELPAVSEFSTSETMGHSADR	HADHB; HADHB	P55084; F5GZQ3	ECHB_HUMA	Oxidation (M)	13488000	2721500	7340700	0	0	0	0	0	0
FNFLAPELPAVSEFSTSETMGHSADR	HADHB; HADHB	P55084; F5GZQ3	ECHB_HUMA	Oxidation (M);Deau	85191	1378700	559130	0	0	0	0	0	0
FNFLNPNDPYHAYYR	SF3A1	Q15459	SF3A1_HUM	Unmodified	3925200	1823000	1859100	0	0	0	0	0	0
FNFLNPNDPYHAYYR	SF3A1	Q15459	SF3A1_HUM	Deamidation (N)	0	575370	446950	0	0	0	0	0	0
FNGTHIPGSPFK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Deamidation (N)	1979300	2091500	2308100	54405	42942	20771	10759	0	0
FNIPDLK	ATP6V1C1	P21283	VATC1_HUM	Unmodified	872210	616660	555860	0	0	0	0	0	0
FNKPFVFLMIEQNTKSPLFMGK	SERPINA1; SERPIN/	P01009; A0A024	A1AT_HUMA	2 Oxidation (M)	541410	694280	247820	0	0	0	0	0	0
FNLETEWKNNYPR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Deamidation (N)	1690200	510840	535800	24470	27795	0	0	0	0
FNLMQVGR	GAPVD1; GAPVD1;	Q14C86; C9IZ08;	GAPD1_HUM	Oxidation (M)	1875400	0	407900	0	0	0	0	0	0
FNLTGLNEQVPHYR	CSNK2B; CSNK2B; (	P67870; A0A7I2	CSK2B_HUM	Deamidation (N)	507520	371800	319910	0	0	0	0	0	0
FNPETDYLTGTDGKK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	4184200	4402500	3392100	80264	74958	65497	0	0	0
FNPIETFLLGSCASDR	DCAF13; DCAF13; I	Q9NV06; A0A087	DCA13_HUM	Unmodified	233790	189360	45175	0	0	0	0	0	0
FNPLNAEVR	LRRC20; LRRC20; L	Q8TCA0; X6RK5	LRC20_HUM	Deamidation (N)	2038400	0	2249300	0	0	0	0	0	0
FNQAQSGNIQSTVMLDKQKELDSK	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Oxidation (M)	483110	560160	1217700	0	0	0	0	0	0
FNQLPVELKK	ABHD10	Q9NUJ1	ABHD10_HUM	Unmodified	570640	740230	539670	0	104920	0	0	0	0
FNRPFLMIIVPTDTQNIFFMSK	SERPINA3; SERPIN/	P01011; G3V3A0	AACT_HUMA	2 Oxidation (M)	1455500	322250	759160	0	0	0	0	0	0
FNSLNELVDYHR	GRB2	P62993	GRB2_HUMA	Deamidation (N)	847610	711690	0	0	0	0	0	0	0
FNSRMKNK	DGKA; DGKG; DGK	P23743; P49619;	DGKA_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
FNTPQQPK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	Unmodified	5868800	7110900	5538700	109200	176690	83464	0	0	0
FNTTSVIK	EFTUD2	Q15029	US1_HUMA	Unmodified	727260	679990	997540	0	21306	25846	0	0	0
FNVIQPGPIK	DECR1; DECR1	Q16698; H0YAW	DECR_HUM	Unmodified	1843900	1873100	0	0	0	0	0	0	0
FNVLQYVVPEVK	EIF3A	Q14152	EIF3A_HUM	Unmodified	1130900	1286000	1325300	0	0	0	0	0	0
FNVPVSLESK	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP_HUM	Unmodified	7534700	10671000	9402400	555680	496920	907550	15229	23923	168660
FNVPVSLESKK	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP_HUM	Unmodified	2543600	3255900	3458800	126570	150570	140290	25847	0	0
FNVWDTAGQEK	RAN; RAN; RAN; RA	P62826; H0YFC6;	RAN_HUMA	Unmodified	5736700	5888200	6596600	33337	33477	0	0	0	0
FNYSGSGGR	ILF3	Q12906	ILF3_HUMA	Unmodified	5527000	4601900	5444500	336100	246010	378900	0	14249	0
FNYSGSGGR	ILF3	Q12906	ILF3_HUMA	Deamidation (N)	1828500	1775800	2097200	77474	66040	80695	0	0	0
FPAEDEFPDLSAHNNHMAK	CKB; CKB	P12277; G3V4N7	KCRB_HUM	Oxidation (M);Deau	10124000	9360200	12435000	30886	44004	62931	10181	0	0
FPAEDEFPDLSAHNNHMAK	CKB; CKB	P12277; G3V4N7	KCRB_HUM	Oxidation (M);2 De	13694000	14581000	15307000	135970	135520	86545	17653	0	0
FPDENFTLK	PPIF; PPIF; PPIF	P30405; H0Y548;	PPIF_HUMA	Unmodified	1297400	430950	0	0	0	13565	0	0	0
FPEDLENDIR	HAT1; HAT1	O14929; F8W9G7	HAT1_HUMA	Unmodified	911730	686320	900570	0	0	0	0	0	0
FPEHELTFDPQR	HYOU1; HYOU1; HY	Q9Y4L1; J3QL06;	HYOU1_HUM	Unmodified	7094900	5874200	6898400	184410	124330	277000	0	0	0
FPEPQEVVEELKK	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH_HUMA	Unmodified	921590	1000400	1723800	0	0	0	0	0	0
FPFELVK	DNM2; DNM1; DNM	P50570; Q05193;	DYN2_HUMA	Unmodified	2244600	1292600	1419000	13944	13753	0	0	0	0
FPFGIQQAK	ARID1B; ARID1B; A	Q8NFD5; A0A6Q	ARI1B_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FPFGISPAQSHR	ARID1A; ARID1A; A	O14497; H0Y488;	ARI1A_HUM	Unmodified	0	0	0	0	0	0	0	0	0
FPGYDSESK	RPL5; RPL5	P46777; A0A2R8	RL5_HUMAN	Unmodified	2358700	2154500	2320400	0	0	0	0	0	0
FPIKWTAPEAALYGR	YES1; SRC; FYN; YE	P07947; P12931;	YES_HUMAN	Unmodified	855440	0	0	0	0	0	0	0	0
FPLDYYSIPFPTPTTPLTGR	UBAP2L; UBAP2L;	Q14157; H7C278;	UBP2L_HUM	Unmodified	582820	349650	489700	0	0	0	0	0	0
FPLEEPGPRPLPWPPGSDEVAK	PRRC2A	P48634	PRC2A_HUM	Unmodified	0	1006400	1241400	0	0	0	0	0	0
FPLFGGWK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	9727100	9960700	9401300	0	12280	58721	0	0	0
FPLTTESAMK	RPL23A; RPL23A; R	P62750; K7EJV9;	RL23A_HUM	Oxidation (M)	2421300	2177800	3143000	45957	52262	0	0	0	0
FPNGVQLSPAEDFVLVAETTMAR	APMAP; APMAP	Q9HDC9; H0Y51	APMAP_HUM	Oxidation (M);Deau	305570	0	98677	0	0	0	0	0	0
FPNLVDPWTPHLYAR	NCAPD2	O15021	CND1_HUMA	Unmodified	707100	769150	732060	0	0	0	0	0	0
FPPFFTLQPNVDTR	VPS25; VPS25; VPS	Q9BRG1; K7EP45	VPS25_HUM	Unmodified	1048500	1237700	837330	0	0	0	0	0	0
FPPLGGGGGIGYEANPGVPPATMSGSMMGSDMR	SFPQ	P23246	SFPQ_HUMA	4 Oxidation (M)	6193500	3509500	0	92643	88444	95643	0	0	0
FPQLDSTSFANSR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Deamidation (N)	964810	1351800	986160	98761	0	0	0	0	0
FPTLWSGAR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ9	HNRL2_HUM	Unmodified	8364200	5695900	2373700	56806	52259	48284	0	10839	9187.8
FPTYPVPHYSFF	STRBP	Q96SI9	STRBP_HUM	Unmodified	1067600	929870	1281400	0	0	0	0	0	0
FPVAPLIPYPLITK	RBM25; RBM25	P49756; H0YE46	RBM25_HUM	Unmodified	929170	771100	817760	0	0	0	0	0	0
FPVDIFYTK	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16_HUM	Unmodified	0	0	560160	46690	96492	38813	0	0	0

FQALETWQDLK	N/A	N/A	N/A	Unmodified	2751900	0	0	0	0	0	0	0	0
FQDLGVK	SEPTIN9; SEPTIN9; ;	Q9UHD8; K7ENL	SEPT9	HUM/	Unmodified	2578400	991890	918920	22467	30489	27579	0	0	0
FQDLGVKNSEPSAR	SEPTIN9; SEPTIN9; ;	Q9UHD8; K7ENL	SEPT9	HUM/	Deamidation (N)	10689000	9331700	6737800	344010	141440	403500	0	0	42132
FQDTDGK	PGD; PGD; PGD	P52209; K7ELN9;	6PGD	HUMA	Unmodified	368980	515320	468200	0	0	0	0	0	0
FQEAEERPKMFEELGQR	HSPH1; HSPH1	Q92598; A0A0A0	HS105	HUM/	Oxidation (M)	5179200	1008800	5598500	0	0	0	0	0	0
FQEAKGDSPQEK	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM/	Unmodified	0	696530	910800	158710	0	0	0	0	0
FQEHIQAPKPVEAIK	CHORDC1; CHORDC	Q9UHD1; E9PPQ	CHRD1	HUM	Unmodified	2461300	4281800	3179900	0	0	0	0	0	0
FQELESETLK	ACP3; ACP3	P15309; E9PFE6	PPAP	HUMA	Unmodified	0	0	0	1251700	1061100	1136400	0	0	0
FQELESETLKSEEFQK	ACP3; ACP3	P15309; E9PFE6	PPAP	HUMA	Unmodified	0	0	0	4038600	3907700	3594100	128020	104530	116000
FQELESETLKSEEFQKR	ACP3; ACP3	P15309; E9PFE6	PPAP	HUMA	Unmodified	0	0	0	882390	1169600	1374500	0	0	87717
FQELIFEDFAR	NIBAN2	Q96TA1	NIBA2	HUM/	Unmodified	2935200	4977000	2445300	18426	0	8299.4	0	0	0
FQELKDVQDELR	SMC2	O95347	SMC2	HUMA	Unmodified	1764700	1411300	1320400	0	0	0	0	0	0
FQELLQDLEKKER	GADD45GIP1	Q8TAE8	G45IP	HUMA	Unmodified	728990	494710	950270	0	0	0	0	0	0
FQELQR	PFAS; ADAM33; AN	O15067; Q9BZ11;	PUR4	HUMA	Unmodified	2570600	1838400	2103000	0	21290	0	0	0	0
FQEMKMQEHSDQVPVGNIPR	MCM7; MCM7	P33993; C9J8M6	MCM7	HUM.	2 Oxidation (M)	908320	855980	0	0	0	0	0	0	0
FQETEFLSPPR	TMPO	P42166	LAP2A	HUM	Unmodified	3855200	3440500	4723800	89302	0	43347	0	0	0
FQEYHIQQNEALAAK	TIMM9	Q9Y5J7	TIM9	HUMA	Unmodified	2981800	3604200	4027300	0	0	85426	0	0	0
FQEYHIQQNEALAAK	TIMM9	Q9Y5J7	TIM9	HUMA	Deamidation (N)	1371200	835560	612030	0	0	0	0	0	0
FQFFQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	3331200	3349300	2114000	55063	61938	47502	0	0	0
FQGAGSNK	ILF3	Q12906	ILF3	HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
FQGEDTVVIASKPYAFDR	KIF5B	P33176	KINH	HUMA	Unmodified	7381200	5770000	4146700	0	0	0	0	0	0
FQGVSLPVHLR	MRPL39; MRPL39	Q9NYK5; C9JG87	RM39	HUMA	Unmodified	2147800	8027200	2337500	0	10630	0	0	0	0
FQIATVTEK	PSMB4	P28070	PSB4	HUMA	Unmodified	6698400	6210600	7157100	219890	107380	0	12339	0	0
FQKELKEIQYGIR	BCAT2; BCAT2	O15382; B3KSI3	BCAT2	HUM	Unmodified	746730	986480	438800	0	0	0	0	0	0
FQKENPGFDFSGAEISGNYTK	NUDCD2; NUDCD2	Q8WVJ2; E5RFP(	NUDC2	HUM	Unmodified	0	1158100	0	0	0	0	0	0	0
FQKENPGFDFSGAEISGNYTK	NUDCD2; NUDCD2	Q8WVJ2; E5RFP(	NUDC2	HUM	Deamidation (N)	858270	885600	971020	0	0	0	0	37754	0
FQLGGSAR	C11orf68	Q9H3H3	CK068	HUM.	Unmodified	0	1398800	1462800	119790	161400	94513	0	13057	0
FQLLEGPPESMGR	GDI1; GDI1	P31150; G5E9U5	GDIA	HUMA	Oxidation (M)	38822000	34203000	28203000	621880	531400	153590	0	18055	0
FQLTFPLR	NPTX1	Q15818	NPTX1	HUM	Unmodified	881510	1199800	611390	0	0	0	0	0	0
FQLVDSR	TST	Q16762	THTR	HUMA	Unmodified	2506100	1697400	2713700	0	98081	116780	0	0	0
FQMAYSNLLR	SRP14	P37108	SRP14	HUM/	Oxidation (M)	1472300	961220	2199300	14259	0	0	0	0	0
FQMELKDVER	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Oxidation (M)	762820	617690	895760	0	14308	0	0	0	0
FQMPDQGMTSADDFFQGTK	DPYSL2; DPYSL2; I	Q16555; E5RFU4;	DPYL2	HUM	2 Oxidation (M)	11789000	15045000	11060000	165840	178820	160650	0	0	0
FQNSLKELQLQK	DSP	P15924	DESP	HUMA	Unmodified	1048500	801330	921730	0	0	0	0	0	0
FQPGETLTEILETPATSEQEAEHQR	IQGAP1; IQGAP1	P46940; H0YLE8	IQGA1	HUM.	Unmodified	19075000	24825000	26029000	0	0	0	0	0	0
FQPPVPAPR	PHLDB1	Q86UU1	PHLB1	HUM	Unmodified	804820	680490	492500	0	0	0	21066	0	16325
FQPQSPDFLDITNPK	UFD1; UFD1; UFD1;	Q92890; C9JNP9;	UFD1	HUMA	Unmodified	2351200	4499700	2435400	20121	19000	18425	0	0	0
FQQAVDAVEEFLR	GLYR1; GLYR1; GL	Q49A26; K7EQB2	GLYR1	HUM	Unmodified	605990	399070	625850	0	0	0	0	0	0
FQQMDVLEGLNLLITISGKRNK	MINK1	Q8N4C8	MINK1	HUM	Oxidation (M);Metl	129720	0	0	0	0	0	0	0	0
FQQQLEQLSAMGFLNR	UBQLN1	Q9UMX0	UBQL1	HUM	Oxidation (M)	1739700	1066900	1520300	0	0	0	0	0	0
FQQQQGLR	PFAS	O15067	PUR4	HUMA	Unmodified	1451900	0	1330800	0	0	0	0	0	0
FQQVPTDALANKLFGAPEPSTIAR	LARP1; LARP1; LAI	Q6PKG0; H0YC3	LARP1	HUM	Unmodified	4091800	3996500	2937400	0	0	0	0	0	0
FQRPGDPQSAQDK	SF1; SF1; SF1	Q15637; H7C561;	SF01	HUMA	Unmodified	585260	0	0	620380	818400	625810	24782	15512	0
FQSGDFHVINGVLR	CSE1L	P55060	XPO2	HUMA	Deamidation (N)	248720	830300	2125700	0	0	0	0	0	0
FQSLGVAFYR	RAB7A; RAB7A; RA	P51149; A0A6Q8	RAB7A	HUM	Unmodified	7546900	10145000	9016300	874480	395910	478160	52490	60264	0
FQSSHHPTDITSLDQYVER	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUMA	Unmodified	140700000	133550000	125620000	956210	857380	980760	72872	40718	24478
FQSVESGANNVVFIR	THUMPD1; THUMPI	Q9NXG2; H3BNV	THUM1	HUM	Deamidation (N)	5189700	3018900	3844000	208910	250180	149420	0	0	8535.5
FQSVFTVTR	C1QC	P02747	C1QC	HUMA	Unmodified	4471300	3864500	4487500	89207	45595	51218	39390	27276	28293
FQTEDDAR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	3291000	3386600	4096200	64849	0	0	0	0	0
FQTEIQTVNK	DARS1; DARS1	P14868; H7BZ35	SYDC	HUMA	Unmodified	981730	994570	1450800	0	0	0	0	0	0
FQTGNKSPEVLR	CLCC1; CLCC1; CL	Q96S66; A0A6Q8	CLCC1	HUM	Deamidation (N)	0	567720	545490	41901	37968	0	0	0	16475
FQTGNKSPEVLR	CLCC1; CLCC1; CL	Q96S66; A0A6Q8	CLCC1	HUM	Unmodified	908160	1165000	884160	80370	82068	120250	18385	21529	24483
FQTIDLSPFLFTR	FOXRED1	Q96CU9	FXRD1	HUM	Unmodified	281410	661330	324170	0	0	0	0	0	0
FQTMEEK	RPL3; RPL3	P39023; G5E9G0	RL3	HUMAN	Oxidation (M)	75700	0	18751000	0	1353700	822350	0	0	0
FQTMEEKK	RPL3; RPL3	P39023; G5E9G0	RL3	HUMAN	Oxidation (M)	855670	688990	792920	29359	0	26294	0	0	0
FQVATDALK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	4074900	4303400	4060600	431340	431330	460230	0	0	0
FQVVINGR	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD	HUM	Deamidation (N)	379620	0	271630	15394	18682	19987	0	0	0
FQWDLNAWTK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Deamidation (N)	1028100	1563000	2559100	0	0	0	0	0	0
FQWDLNAWTK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
FRAESVVPAR	MVD; MVD	P53602; H3BP35	MVD1	HUM	Unmodified	338940	709010	3214500	0	16626	0	0	0	0
FRCPEALFQPSFLGMESCGIHETTFNSIMK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM/	2 Oxidation (M);De	0	3564300	0	0	0	0	0	0	0
FRCPEALFQPSFLGMESCGIHETTFNSIMK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM/	2 Oxidation (M)	4620400	805260	0	0	0	0	0	0	0
FRDGPPLRGSNMDFREPTEEER	EIF4H; EIF4H; EIF4H	Q15056; A0A7Z	IF4H	HUMA	Oxidation (M)	972540	1242600	1207700	65117	50553	56607	0	0	0
FRDGPPLRGSNMDFREPTEEER	EIF4H; EIF4H; EIF4H	Q15056; A0A7Z	IF4H	HUMA	Oxidation (M);Deai	1802900	2937900	2511300	74178	79798	83937	0	0	0
FREALGDAQQSVR	DNAJC7; DNAJC7; I	O99615; A0A6B	DNJC7	HUM.	Unmodified	3357400	3786700	3878300	39303	0	0	0	0	0
FREFAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM.	Unmodified	3158500	2876500	2699500	344270	263760	360740	16928	21517	0
FREFVYQEAAGPHQTLAR	ZSCAN18; ZSCAN18	Q8TBC5; M0R1U	ZSC18	HUM.	Unmodified	2482000	1255800	0	0	36843	0	0	0	0
FREMIPFAVVGSDHEYQVNGKR	SEPTIN9; SEPTIN9	Q9UHD8; A0A6Q	SEPT9	HUM/	Oxidation (M);Deai	2306200	3645300	2464200	0	0	0	0	0	0
FRGPFTDVVTTNLK	VAPB; VAPB	O95292; E5RK64	VAPB	HUMA	Unmodified	3061100	5636200	5158100	0	0	0	0	0	6772
FRGPFTDVVTTNLK	VAPB; VAPB	O95292; E5RK64	VAPB	HUMA	Deamidation (N)	592170	529850	362640	0	0	0	0	0	0
FRIDELEPR	GANAB; GANAB	Q14697; F5H6X6	GANAB	HUM	Unmodified	8488300	8511700	8955000	250060	225070	218550	0	0	20486
FRLDNLLNMAYGVK	ELAVL2; ELAVL3; I	Q12926; Q14576;	ELAV2	HUM	Oxidation (M)	951410	882350	954370	0	0	0	0	0	0
FRLEAPDADELPK	ACO2; ACO2; ACO2	O99798; A2A274;	ACON	HUM	Unmodified	1360200	1436400	1216500	38373	44987	33324	0	0	0
FRLPPGEYVVVPSTFEPNKEGDFVLR	CAPN1	P07384	CAN1	HUMA	Unmodified	2151800	1850500	1410300	0	0	0	0	0	0
FRSETITEEELVGLMNK	CBR1	P16152	CBR1	HUMA	Oxidation (M)	1086000	788670	865190	0	0	0	0	0	0
FRYLMAEK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB	HUM/	Oxidation (M)	0	1491900	0	0	0	0	0	0	0
FSAFLDKVVGLQK	ALG13; ALG13	A0A096LP10; A0.	A0A096LP10	Unmodified		250270	200220	153760	0	0	0	0	0	0
FSAGGDSDPPLKR	ZC3H11A; ZC3H11A	O75152; E9PBY7;	ZC11A	HUM	Unmodified	917480	0	916070	0	0	0	14625	0	12452
FSAHYDAVEAELK	FAM50A; FAM50B;	Q14320; Q9Y247;	FA50A	HUM	Unmodified	3801500	2888200	3039500	0	0	55382	0	0	0
FSALQQAVPTESTDNRR	EIF4G1; EIF4G1; EIF	Q04637; H7C044;	IF4G1	HUMA	Unmodified	13616000	7281000	7461400	0	816850	608940	0	0	0
FSALQQAVPTESTDNRR	EIF4G1; EIF4G1; EIF	Q04637; H7C044;	IF4G1	HUMA	Deamidation (N)	0	0	2317400	0	0	0	0	0	0
FSASGELGNGNIK	PCNA	P12004	PCNA	HUMA	Deamidation (N)	17169000	19566000	17224000	70404	195360	0	0	0	0
FSAVALCK	UCHL1; UCHL1	P09936; D6RE83	UCHL1	HUM	Unmodified	16709000	15392000	24584000	191150	186830	209830	13851	0	0
FSAVKDELPQSPGLIHGR	SYTL2; SYTL2	Q9HCH5; A0A0U	SYTL2	HUM.	Unmodified	0	0	0	64410	67402	74704	0	0	0
FSAYIKNSNPALNDNLEK	CLIC1	O00299	CLIC1	HUM/	2 Deamidation (N)	1294300	0	336540	0	0	0	0	0	0
FSAYIKNSRPEANEALER	CLIC4	Q9Y696	CLIC4	HUM/	Deamidation (N)	871090	851240	754680	0	0	0	0	0	0
FSCEPAGGLTSLTEPPKGPGFGVQAGL	NDUFV2; NDUFV2	P19404; E7EPT4	NDUV2	HUM	Unmodified	1840500	2035400	760300	0	0	0	0	0	0
FSDHVALLSVFQAWDDAR	DHX9	Q08211	DHX9	HUMA	Unmodified	1245700	227670	705720	0	0	0	0	0	0
FSDIQIR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	6810700	6378000	5119100	76661	0	141310	0	0	0
FSDQFPLPLK	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1	HUM	Unmodified	874740	852100	0	0	19244	16663	0	0	0
FSDQFPLPLKER	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1	HUM	Unmodified	6808400	7052400	7393500	272640	267190	335780	27212	19484	0
FSDSYASVIK	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
FSEAEQR	MCM7	P33993	MCM7	HUM.	Unmodified	0	9872200	14064000	0	0	0	0	0	0
FSEEQRFNNFLK	XRCC5	P13010	XRCC5	HUM	Deamidation (N)	455550	497200	279280	0	0	0	0	0	0
FSEGEATLR	QARS1; QARS1; QAI	P47897; A0A1B0	SYQ	HUMA	Unmodified	1759400	2416800	0	174330	0	0	0	0	0
FSEGTSADREIQR	PSMC6; PSMC6; PS	P62333; A0A087	PRS10	HUM.	Unmodified	9230100	7124900	8609800	168250	114920	170740	10530	20951	0
FSELPTQMFPEGATPAEITK	AAR2; AAR2; AAR2	Q9Y312; A0A7P0	AAR2	HUMA	Oxidation (M)	582810	557200	506940	18697	0	0	0	0	0
FSELTAEK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUMA	Unmodified	8266300	6948000	10372000	164060	83296	89215	0	0	0
FSEQVFK	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1	HUM.	Unmodified	0	6442900	0	0	0	0	0	0	0
FSEVLKR	CKB; CKB; CKB	P12277; H0YJG0;	KCRB	HUM/	Unmodified	1922500	1534900	1658200	0	0	0	0	0	0
FSFDLGK	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4	HUM.	Unmodified	1132900	1133800	1064000	9972.6	10633	13258	0	0	0
FSFDLGKGEVIK	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4	HUM.	Unmodified	0	918950	2690500	0	0	0	0	0	0
FSFGLLDLPFR	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM.	Unmodified	100810	0	75530	0	0	0	0	0	0
FSFSPEPTLEDIR	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	6601300	5755200	6294700	0	0	0	0	0	0
FSFSPEPTLEDIRR	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	6090500	5051700	5010800	0	0	0	0	0	0
FSGEELDKLWR	LRPAP1; LRPAP1	P30533; A0A3B3	AMRP	HUM	Unmodified	0	340180	254320	0	0	0	0	0	0
FSGFGSGAGGKPLEGLSNGNNITSAPPFASAK	NUP50; NUP50	Q9UKX7; B0QY2	NUP50	HUM.	2 Deamidation (N)	0	2567500	4246300	0	0	0	0	0	0
FSGWYDADLSPAGHEEAK	PGAM1	P18669	PGAM1	HUM	Unmodified	6640400	5219200	5321300	34169	0	0	0	0	0
FSGWYDADLSPAGHEEAKR	PGAM1	P18669	PGAM1	HUM	Unmodified	7396400	7364100	10138000	0	0	0	0	0	0
FSHEEIAMATVTALR	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Oxidation (M)	33710000	32351000	31858000	262400	0	0	62554	58828	89437
FSHEEIAMATVTALRR	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Oxidation (M)	72813000	44918000	59470000	526650	118200	131410	0	25253	0
FSHQGVQLIDFSPCER	EIF3B; EIF3B	P55884; C9JQN7	EIF3B	HUM	Unmodified	1432000	1633500	1089500	20629	0	0	0	0	11085
FSIEDLK	THYN1	Q9P016	THYN1	HUM	Unmodified	2657400	1865500	1620400	0	45483	52768	0	0	0
FSISNLSMQTHAAR	BIRC2; BIRC2; BIRC	Q13490; H0YDY3	BIRC2	HUM	Oxidation (M)	0	832980	0	0	0	0	0	0	0
FSKEQLPIFK	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM/	Unmodified	3445000	3428300	4570800	0	104870	76153	0	0	0
FSLASVLRPLQEESIMEK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Oxidation (M)	3208100	3352800	4755800	0	0	0	0	0	0
FSLENNFLLQHNIR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM.	Unmodified	912260	675410	817940	0	0	0	0	0	0
FSLENNFLLQHNIR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM.	Deamidation (N)	4061800	1721000	2188000	0	0	0	0	0	0
FSLENNFLLQHNIR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM.	2 Deamidation (N)	0	355370	315980	0	0	0	0	0	0
FSLENNFLLQHNIRK	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM.	Unmodified	494950	471630	464800	0	0	0	0	0	0
FSLFAER	ITGA6; ITGA6	P23229; H7BZ97	ITA6	HUMA	Unmodified	928460	620930	0	0	0	0	0	0	0
FSLFAGGMLR	TMED9	Q9BVK6	TMED9	HUM	Oxidation (M)	927500	1022600	695960	0	0	0	0	0	0
FSLFSAAVR	CCDC51; RCBTB1	Q96ER9; Q8NDN	MITOK	HUM	Unmodified	1140800	1133600	1132200	0	0	0	0	0	0
FSLVPHNYGLVLYENK	NIBAN2	Q96TA1	NIBA2	HUM/	Unmodified	1277100	979060	970000	0	0	0	0	0	0
FSLVPHNYGLVLYENK	NIBAN2	Q96TA1	NIBA2	HUM/	Deamidation (N)	384140	108660	338550	0	0	0	0	0	0
FSLYQTR	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	3677000	2280300	1552100	0	0	0	0	0	0
FSMPGFK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	2028500	2888000	2313700	1228000	1760500	1820100	320040	295160	613990
FSMPGFKAEGPEVDVNLPK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	0	0	1278500	223370	0	109630	359300	131280	265730
FSMPGFKGEGPDVDVNLPK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	2327100	1958500	1841800	554930	0	333450	0	0	353840
FSMPGFKGEGPDVDVTLPK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	0	389340	371170	96971	73875	46050	99091	0	0
FSMPGFKGEGPEVDVNLPK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	822860	0	1173500	247040	125960	145850	145870	0	181200
FSMPSLK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	0	133550	0	98403	93482	63712	30468	34116	43624

FSMVILAR	METTL17; METTL1'	Q9H7H0; H0YJW	MET17	HUM	Oxidation (M)	219300	303410	329220	0	10852	0	0	0	0
FSMVVQDGIVK	PRDX5	P30044	PRDX5	HUM	Oxidation (M)	24830000	13923000	25144000	341120	446360	437050	0	0	0
FSNISAAK	SERPINA7; CCT4	P05543; P50991	THBG	HUM	Unmodified	12229000	12563000	9281700	0	0	0	0	0	0
FSNISAAKAVADAIR	CCT4	P50991	TCPD	HUM	Methyl (KR)	351230	0	436510	0	0	0	0	0	0
FSNNISTFQNLYR	SCAF8; SCAF8	Q9UPN6; A0A0A	SCAF8	HUM	Deamidation (N)	0	89652	87044	0	0	0	0	0	0
FSNQETSVEIGESVR	PRPS2; PRPS2; PRP	P11908; D3YTJ7;	PRPS2	HUM	Deamidation (N)	1316400	631690	591500	0	0	0	0	0	0
FSNSAQYRIQVNMCMQR	N/A	N/A	N/A		2 Oxidation (M);De	0	1019800	0	0	0	0	0	0	0
FSPAGPILSIR	PABPC1; PABPC1L2	P11940; Q5JQF8;	PABP1	HUM	Unmodified	15454000	16125000	12891000	246860	277010	277960	22001	22856	24296
FSPAGPVLSIR	PABPC4; PABPC4; P	Q13310; B1ANR0	PABP4	HUM	Unmodified	2509100	2459100	2145500	42307	39412	45704	0	8006.4	0
FSPDGELYASGSEDGTLR	STRAP; STRAP	Q9Y3F4; H0YH33	STRAP	HUM	Unmodified	0	718080	576680	0	0	0	0	0	0
FSPEVPGQK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B	HUM	Unmodified	0	2933600	2337600	341820	236830	310780	0	0	0
FSPFPVQDRPESSLVFK	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	355830	415000	542430	0	0	0	0	0	0
FSPGVDHIFFK	FRAS1	Q86XX4	FRAS1	HUM	Unmodified	297500	212460	221160	0	0	0	0	0	0
FSPLMTAAVLGTR	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Oxidation (M)	888380	1023200	934490	16034	14862	20042	0	0	0
FSPLTTNLINLLAENGR	ATP5PO; ATP5PO; P	P48047; A0A494(	ATPO	HUM	Deamidation (N)	1705200	138770	1087800	0	0	0	0	0	0
FSPNTSQFLLVSSWDTSVR	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUM	Unmodified	521800	0	522880	0	0	0	0	0	0
FSPSPLSIK	PDK3	Q15120	PDK3	HUM	Unmodified	7215100	6896400	5643300	121670	131370	112630	0	0	9955.8
FSPTDFLAK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	3600600	2644600	3194900	0	0	0	0	3913	0
FSPVATASYR	POLR1C; POLR1C; I	O15160; A0A2R8	RPAC1	HUM	Unmodified	2198400	2158500	1302000	37512	0	96578	0	0	0
FSPVEQR	HAUS6; HAUS6	Q7Z4H7; Q5VY6(	HAUS6	HUM	Unmodified	0	0	700350	42271	34059	33494	0	0	0
FSQDLPR	MRNIP; MRNIP; MR	Q6NTE8; E5RJC6	MRNIP	HUM	Unmodified	569650	623000	0	0	0	0	0	0	0
FSQELLSNGELNHLPLKER	UBTF; UBTF; UBTF	P17480; E9PLT2;	UBF1	HUM	A 2 Deamidation (N)	1022700	998930	0	0	0	0	0	0	0
FSQEVQVPEAR	RRM2B; RRM2B; RI	Q7LG56; H0YAV	RIR2B	HUM	Unmodified	1127500	957280	1458200	70066	72337	48243	0	25651	0
FSQLAEAYEVLSDEVKR	DNAJA3	Q96EY1	DNJA3	HUM	Unmodified	831170	0	1239300	0	0	0	0	0	0
FSQLYPER	LSS; LSS	P48449; A0A0G2	LSS	HUM	Unmodified	2661400	2359500	2178800	0	84221	133120	0	0	0
FSQLYPERALAGHP	LSS; LSS	P48449; A0A0G2	LSS	HUM	Unmodified	0	0	0	310220	244790	123920	48994	20613	26496
FSQMLHPIFEEASDVIK	ERP44	Q9BS26	ERP44	HUM	Oxidation (M)	489950	0	498430	0	0	0	0	0	0
FSREEFPTLQAAGDQDK	PRRC2A	P48634	PRC2A	HUM	Unmodified	1162900	1165500	1328800	57693	42065	63393	14248	0	0
FSSDRTITEYAR	PYGB; PYGB	P11216; H0Y4Z6	PYGB	HUM	Unmodified	853930	995520	911700	0	0	0	0	0	0
FSSPDEIDLPRELEDEVPILGR	MIA3; MIA3	Q5JRA6; A0A0A(	TGO1	HUM	Unmodified	542510	0	457060	0	0	0	0	0	0
FSSQQAATK	PSIP1	O75475	PSIP1	HUM	Unmodified	34112000	0	0	0	0	0	0	0	0
FSSSGGGGGGGR	KRT9	P35527	K1C9	HUM	Unmodified	12477000	12078000	9763200	5920300	6197300	6604100	302900	286950	279400
FSTFFDDAPVFR	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16	HUM	Unmodified	1976200	1284700	1771800	0	0	0	0	0	0
FSTFFDDAPVFRIPGR	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16	HUM	Unmodified	415780	222960	243570	0	0	0	0	0	0
FSTPEQAAK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Unmodified	18561000	18400000	19570000	1309300	1153100	1189000	0	0	0
FSTPEQAAKNR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Deamidation (N)	1356700	1390400	1637500	0	0	0	0	0	0
FSTQCQYQGSYSSCGPQFQSR	KPRP	Q5T749	KPRP	HUM	Unmodified	1143100	0	1833700	266590	195990	165520	0	0	0
FSTQYR	UFD1; UFD1; UFD1	Q92890; C9JZG3;	UFD1	HUM	Unmodified	795830	163260	1076400	49109	0	61428	0	0	0
FSVCVLGDQQHCDEAK	RPL10A	P62906	RL10A	HUM	Unmodified	2970600	2009100	2200200	137220	99836	98742	0	0	26118
FSVGGMTDVAEIKGHRR	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Oxidation (M)	686850	944640	0	0	0	0	0	0	0
FSVSPVVR	EEF2	P13639	EF2	HUM	Unmodified	89092000	65948000	67985000	1216100	1327300	1345200	92136	0	0
FSVVYAK	AHSG; AHSG	P02765; C9JV77	FETUA	HUM	Unmodified	723320	608160	509680	0	0	0	0	0	0
FSWNVWPSSR	SEC23B; SEC23A; SI	Q15437; Q15436;	SC23B	HUM	Unmodified	2367300	4086600	3978500	14352	14049	15929	0	0	0
FSWSSNLMQHQR	ZNF787	Q6DD87	ZN787	HUM	Oxidation (M)	543320	646690	997140	0	0	0	0	0	0
FSYLAVIEGAK	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUM	Unmodified	2385500	1424300	2430500	13069	10957	12932	0	0	0
FTADEARDLIQR	PRPF8	Q6P2Q9	PRP8	HUM	Unmodified	527790	431590	0	0	0	0	0	0	0
FTAIIGPNGSGK	SMC1A	Q14683	SMC1A	HUM	Deamidation (N)	1349800	2262300	1559400	0	0	16378	0	0	0
FTAQGLPDLNHSQVYAVK	UPF1	Q92900	RENT1	HUM	Deamidation (N)	0	920110	816750	0	0	0	0	0	0
FTARPLVETIFER	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A	HUM	Unmodified	3349500	1417400	2636000	0	0	0	0	0	0
FTASAGIQVVGDDLTVTNPK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	5590800	3179000	5682300	32673	29605	41966	55985	47479	31711
FTASAGIQVVGDDLTVTNPKR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	12055000	10571000	11667000	0	0	0	0	0	0
FTASAGIQVVGDDLTVTNPKR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Methyl (KR)	1417300	795780	665340	0	0	0	0	0	0
FTASIQR	SMC4; SMC4	Q9NTJ3; E9PD53	SMC4	HUM	Unmodified	1324500	2349500	2938600	0	0	0	0	0	0
FTCTVTHTDLPSPLK	IGHM	P01871	IGHM	HUM	Unmodified	1008500	1153500	1432200	45185	0	49412	0	0	0
FTDADKETEIVK	CEBPZ	Q03701	CEBPZ	HUM	Unmodified	423900	480170	350390	0	0	0	0	0	0
FTDEESR	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	3751200	0	0	0	0	0	0	0	0
FTDEESRVFLLDR	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	1940400	2655500	1731800	33920	34150	0	0	0	14519
FTDEEVDELYR	MYL12A; MYL12B;	P19105; O14950;	ML12A	HUM	Unmodified	5212900	5121200	4047200	117380	108360	145720	0	0	0
FTDEYQLFEELGK	CAMK2D; CAMK2D	Q13557; E9PF82;	KCC2D	HUM	Unmodified	0	0	884710	0	0	0	0	0	0
FTDILVR	DHX15	O43143	DHX15	HUM	Unmodified	3650600	2209700	1885800	16764	19663	24645	0	0	0
FTDLFEK	PDCD6IP; CSNK1G1	Q8WUM4; Q9HCI	PDC6I	HUM	Unmodified	3101000	2798200	2758700	99188	83982	87389	0	0	0
FTDLLQLVEFHQLNR	GRB7	Q14451	GRB7	HUM	Unmodified	412760	439670	610210	0	0	0	0	0	0
FTDTRKDEQER	EEF2	P13639	EF2	HUM	Unmodified	4715100	5970900	6176700	270720	166810	247310	0	0	0
FTEEVVK	ALDH9A1	P49189	AL9A1	HUM	Unmodified	1408500	1177200	843270	0	0	0	0	0	0
FTENDKEYQEYLK	RAMAC; RAMACL	Q9BTL3; A0A3B3	RAMAC	HUM	Deamidation (N)	788180	0	0	0	0	0	0	0	0
FTEYETQVK	TARDBP; TARDBP;	Q13148; A0A087	TADBP	HUM	Unmodified	10173000	13349000	9482300	0	0	0	0	0	0
FTEYETQVKVMSQR	TARDBP; TARDBP;	Q13148; A0A087	TADBP	HUM	Oxidation (M)	1694900	1908200	1837200	102320	85830	111570	0	0	0
FTFGLDWVPK	USP13; USP5; USP1	Q92995; P45974;	UBP13	HUM	Unmodified	339390	393890	0	0	0	0	0	0	0
FTFHLEPQAQATQVSDVPATSR	CCDC22	O60826	CCD22	HUM	Unmodified	1771200	1158200	366490	0	0	0	0	0	0
FTGLESIFR	ZADH2	Q8N4Q0	PTGR3	HUM	Unmodified	2078800	1419500	1438700	25542	25550	17054	0	0	0
FTGNQIAK	XYLB; XYLB; XYLE	O75191; A0A3B3	XYLB	HUM	Unmodified	0	0	5119100	0	0	0	0	0	0
FTGSEIR	UQCRC1; PMPCB; P	P31930; O75439;	QCR1	HUM	Unmodified	11485000	12311000	11647000	326490	318440	312040	0	0	0
FTGTASSIEYSTRPR	SNX16; SNX16; SNX	P57768; E5RGQ6	SNX16	HUM	Unmodified	683990	0	642880	28389	0	0	0	0	0
FTILDSQGK	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	1727500	1932000	2159200	210870	141690	154030	0	0	0
FTISDHPQPIDPLLK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1	HUM	Unmodified	1090400	0	1246300	0	0	0	0	8118.9	0
FTISEAVLERLEMPK	LIMCH1; LIMCH1; I	Q9UPQ0; H0Y8P	LIMC1	HUM	Oxidation (M)	2080700	1617000	1757000	0	0	0	0	0	0
FTITPPTAQVVGVLK	CAPZA1	P52907	CAZA1	HUM	Unmodified	7278000	5700700	6268600	0	12416	0	0	0	0
FTITPSTTQVVGILK	CAPZA2	P47755	CAZA2	HUM	Unmodified	2240000	2377400	2187500	0	0	0	0	0	0
FTLNPNPTGVQNPHIER	MAP2K4	P45985	MP2K4	HUM	Unmodified	3255000	2449400	3029600	176780	155980	439990	0	0	0
FTLRDGNRTIGTGLVTNTLAMTEEEKNIK	TUFM	P49411	EFTU	HUM	Oxidation (M);Met	7273900	8282600	6850200	393590	0	105740	410980	377720	671160
FTLTGLKPDTTYDIK	PTPRF; PTPRF; PTP	P10586; H0Y7Z9;	PTPRF	HUM	Unmodified	0	480530	343980	0	0	0	0	0	0
FTLVPSGR	NECTIN2; NECTIN2	Q92692; K7EKE8	NECT2	HUM	Unmodified	1087900	1643600	743630	142830	97719	169870	0	0	0
FTMVQVWPVR	ATP6V1A; ATP6V1A	P38606; C9JA17;	VATA	HUM	Oxidation (M)	1608100	1062700	1346400	0	0	0	0	0	0
FTNIGPDTMR	FN1; FN1	P02751; H0Y7Z1	FINC	HUM	Oxidation (M)	5519000	5571800	6008700	484730	509470	511670	83866	77364	74929
FTPDIPTMLYHGTQEER	HELLS; HELLS; HEL	Q9NRZ9; A0A0B	HELLS	HUM	Oxidation (M)	1539900	1580200	1469500	0	0	0	0	0	0
FTPGTFTNQIQAAFR	RPSA; RPSA; RPSA	P08865; A0A0C4	RSSA	HUM	Unmodified	8302000	7473900	8680300	10005	9454.1	0	17197	0	0
FTPGTFTNQIQAAFR	RPSA; RPSA; RPSA	P08865; A0A0C4	RSSA	HUM	Deamidation (N)	6484600	6177500	8107500	35878	0	0	0	0	0
FTPGTFTNQIQAAFREPR	RPSA; RPSA; RPSA	P08865; A0A0C4	RSSA	HUM	Deamidation (N)	50607000	45969000	40899000	198300	61125	95305	15935	18831	48798
FTQAGSEVSALLGR	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB	HUM	Unmodified	10547000	8971700	8592900	35682	17573	25602	28768	30915	15176
FTQAGSEVSALLGRIPSAVGYQPTLATDMGTMQER	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB	HUM	A 2 Oxidation (M)	5721200	3340200	8633700	0	0	0	0	0	0
FTQDTQPHYIYSPR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	8162800	9653700	9509500	254680	299490	374700	0	0	39481
FTQQDIDEAK	PITRM1; PITRM1; P	Q5JRX3; A0A7I2	PREP	HUM	Unmodified	1015200	1049000	1511700	0	0	0	0	0	0
FTQSGTMK	CTCFL; CTCF; CTCI	Q8NI51; P49711;	CTCFL	HUM	Oxidation (M)	212530	251320	281070	0	12643	0	0	25425	0
FTQVTPTSLSAQWTPPNVQLTGYR	FN1; FN1	P02751; H0Y7Z1	FINC	HUM	Unmodified	2544500	2290200	2761100	0	0	0	0	0	0
FTRNEFNLESK	RAB11A; RAB11B; I	P62491; Q15907;	RB11A	HUM	Unmodified	0	3315600	0	246720	255980	218510	0	0	0
FTRNEFNLESK	RAB11A; RAB11B; I	P62491; Q15907;	RB11A	HUM	Deamidation (N)	0	1821100	1610200	0	0	0	0	0	0
FTSAGQASK	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL	HUM	Unmodified	606620	580280	682980	15095	78017	94872	0	0	0
FTSSPGLSTEDLKR	CASK; CASK; CASK	O14936; A0A2U3	CSKP	HUM	Unmodified	2003100	1781300	1770000	0	105190	0	0	0	0
FTTEEEVDYTVEK	NFS1; H0YGN5H0Y(	Q9Y697; H0YGN	NFS1	HUM	Unmodified	644420	515240	714660	0	0	0	0	0	0
FTTGDAMSK	COTL1	Q14019	COTL1	HUM	Oxidation (M)	7706100	9169800	9434800	0	0	0	0	0	0
FTTGDAMSKR	COTL1	Q14019	COTL1	HUM	Oxidation (M)	0	5535600	5995200	0	0	0	0	0	0
FTTKRPNTFF	RPL18A; RPL18A; R	Q02543; M0R0P7	RL18A	HUM	Deamidation (N)	2729500	2144000	2389500	464220	526210	442460	0	0	95272
FTTPGFPDSPYPAHAR	ST14	Q9Y5Y6	ST14	HUM	Unmodified	2160000	4705000	3811300	80365	181220	91086	0	0	0
FTTYEVR	SNX12; SNX12	Q9UMY4; A0A08	SNX12	HUM	Unmodified	5088200	4113000	4550300	305890	278610	444460	47514	0	0
FTVAELK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2	HUM	Unmodified	6014900	4680500	4724400	155330	94031	154520	0	0	0
FTVETASR	TOP2A	P11388	TOP2A	HUM	Unmodified	2929300	2978900	2724100	139870	0	88644	0	55284	0
FTVLFPSGTPLPAR	HSPA14	Q0VDF9	HSP7E	HUM	Unmodified	1263600	1408000	1481600	0	11936	0	0	0	0
FTVLLMPNGPMR	PA2G4	Q9UQ80	PA2G4	HUM	2 Oxidation (M);De	2732400	2643000	2629400	20515	19110	19545	0	0	0
FTVPMLK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Oxidation (M)	0	0	0	0	0	241350	0	0	0
FTYFSSLSPMAR	C1orf198	Q9H425	CA198	HUM	Oxidation (M)	2807300	0	0	0	0	0	0	0	0
FTYRSDSFENPVLQQHFR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	8937200	6999200	8703600	0	0	0	0	0	0
FVADGIFK	RPS3; RPS3; RPS3; I	P23396; E9PJH4;	RS3	HUM	Unmodified	2641600	2284700	2124900	26966	23315	39454	0	0	0
FVADGIFKAELNEFLTR	RPS3; RPS3; RPS3; I	P23396; E9PJH4;	RS3	HUM	Unmodified	231100	87195	370380	0	0	0	0	0	0
FVAELWK	MYH10	P35580	MYH10	HUM	Unmodified	548470	403940	353920	0	0	0	0	0	0
FVAFSGEGQSLR	UFD1	Q92890	UFD1	HUM	Unmodified	2304900	2894400	2807800	0	102540	120200	0	0	0
FVAPEEVLPFTEGDILEK	EIF2B2	P49770	EI2BB	HUM	Unmodified	525150	554530	581870	0	0	0	0	0	0
FVASKNEQESR	REPS1; REPS1; REP	Q96D71; H0YDT(	REPS1	HUM	Unmodified	412940	291700	314620	0	87296	104920	0	0	0
FVASKPLEEEEMEVPVLPK	NUP153	P49790	NU153	HUM	Oxidation (M)	1152700	1420900	1204900	0	0	0	0	0	0
FVAVTSSNAAK	DPYSL5	Q9BPU6	DPYL5	HUM	Unmodified	1744200	979920	2444800	0	0	0	0	0	0
FVCMLVTEDNVFEAPTIVK	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Oxidation (M)	2969900	2823500	0	0	0	0	0	0	0
FVCSPDEVMDTIDEGKSNR	KIF5B	P33176	KIN5B	HUM	Oxidation (M)	1453200	1143500	620840	40598	0	106540	0	0	0
FVDGEWYR	SND1	Q7KZF4	SND1	HUM	Unmodified	871540	1027100	2333500	19003	83783	0	0	0	0
FVDHVFDEQVIDSLTVK	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUM	Unmodified	12390000	1828000	8697800	0	10349	0	0	0	0
FVDILGLR	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1	HUM	Unmodified	1103600	1169900	1204100	0	0	0	0	0	0
FVDKLFEAVEEGR	PRPF3	O43395	PRPF3	HUM	Unmodified	3053100	3700800	2406400	0	0	0	0	0	0
FVDLYGAQK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	8426400	6899200	7086100	0	0	61586	0	0	0
FVDLYGAQKIVDRLK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	307430	302700	217750	0	0	0	0	0	0
FVDPSQDHALAK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	1301200	1035400	1172800	59965	59620	68288	0	0	0
FVDPSQDHALAKR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	346450	0	364060	53110	35761	36565	8128	0	0
FVDSGEMAESPPYR	EP300; EP300	Q09472; A0A669	EP300	HUM	Oxidation (M)	901880	451740	0	0	0	0	0	0	0
FVEDEKDEEDNETR	LRRC1	Q9BTT6	LRRC1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
FVEGLPINDFSR	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM	Deamidation (N)	6326700	5437200	5419400	36685	31494	38211	0	0	0

FVEGLPINDFSR	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM.	Unmodified	3436500	2946400	2947700	60010	52491	48014	22182	0	24540
FVEGLPINDFSREK	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM.	Deamidation (N)	945510	1227600	853700	0	0	0	0	0	0
FVELPGAEMGK	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUMA	Oxidation (M)	4761900	3623700	3267700	113460	227540	172750	0	0	0
FVEQVAR	COL6A2	P12110	CO6A2	HUM	Unmodified	1685500	1648500	1938400	0	45275	67176	29613	0	0
FVESVDEYQFVER	MRPL49; MRPL49; I	Q13405; E9PNF1;	RM49	HUMA	Unmodified	9476200	9875200	10595000	65655	51841	0	0	0	0
FVEWTR	SERPINB6; SERPINE	P35237; A0A087	SPB6	HUMA	Unmodified	0	619810	700770	0	0	0	0	0	0
FVFDIFQFAK	UAP1	Q16222	UAP1	HUMA	Unmodified	138160	64737	85215	0	0	0	0	0	0
FVFDRPLPVSR	PSMA1; N/A; PSMA	P25786; B4DEV8;	PSA1	HUMA	Unmodified	10474000	8924000	11444000	46623	56653	46669	16106	0	16369
FVFGSESVK	RGPD3; RGPD2; RA	A6NKT7; P0DJD1	RGPD3	HUM	Unmodified	568190	1050500	905410	0	0	0	0	0	0
FVFLLDR	FLII	Q13045	FLII	HUMAN	Unmodified	921480	828700	1333700	0	0	0	0	0	0
FVFSLVDAMNGK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Oxidation (M);Deai	0	1771300	463600	0	0	0	0	0	0
FVGFPDK	HAPLN1	P10915	HPLN1	HUM	Unmodified	442940	362820	310100	0	0	0	0	0	0
FVGFPDKK	HAPLN1	P10915	HPLN1	HUM	Unmodified	1497200	1297800	0	0	0	0	0	0	0
FVGGAENTAHPR	IGFBP5; IGFBP5	P24593; C9JXX4	IBP5	HUMA	Deamidation (N)	2067900	1695500	2056000	0	0	0	8380.2	0	0
FVGGSGQVSER	MAOB; MAOA	P27338; P21397	AOFB	HUMA	Unmodified	6318300	6309300	6990900	0	0	0	0	0	0
FVGPGGYNLK	PNPT1	Q8TCS8	PNPT1	HUM.	Unmodified	778730	741360	828810	0	0	0	0	0	0
FVGQDVEGER	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	2186800	2012300	1944000	0	0	0	0	0	0
FVHSENQHLVSPEALDFLDK	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23	HUM.	Unmodified	597920	509460	955660	0	0	0	0	0	0
FVHSENQHLVSPEALDFLDK	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23	HUM.	Deamidation (N)	1699000	2657600	1976100	0	0	0	0	0	0
FVIEENLHCIIK	NCBP1	Q09161	NCBP1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
FVIGGPQGDAGLTGR	MAT2A	P31153	METK2	HUM	Unmodified	9647900	8967200	7635700	57069	435870	453240	50469	39099	56127
FVIGGPQGDAGLTGRK	MAT2A	P31153	METK2	HUM	Unmodified	0	3040900	3294800	285600	240840	0	0	0	0
FVIGGPQGDAGVTGR	MAT1A	Q00266	METK1	HUM	Methyl (KR)	8075600	0	0	398520	0	0	0	0	0
FVIGGPQGDAGVTGRK	MAT1A	Q00266	METK1	HUM	Methyl (KR)	3186800	0	0	0	0	0	0	0	0
FVIGKNGEKLQDLELK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Deamidation (N)	474390	346650	342780	0	0	0	0	0	0
FVINYDYPNSSEDYIHR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUMA	Unmodified	1855500	1239800	1749900	0	0	0	0	0	0
FVINYDYPNSSEDYIHR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUMA	Deamidation (N)	5423900	8265100	6347400	0	0	0	0	0	0
FVINYDYPNSSEDYIHR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUMA	2 Deamidation (N)	2477700	683790	1908300	0	0	0	0	0	0
FVINYDYPNSSEDYVHR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	913970	0	502490	16360	0	0	0	0	0
FVINYDYPNSSEDYVHR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Deamidation (N)	2647700	3511500	2416500	0	0	26983	0	0	0
FVINYDYPNSSEDYVHR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	2 Deamidation (N)	0	1166600	1037000	0	0	0	0	0	0
FVITTTSR	SMCHD1	A6NHR9	SMHD1	HUM	Unmodified	388480	463770	1165800	0	12448	0	0	0	0
FVKEPAFEDITLESER	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A	HUM	Unmodified	3911500	2710100	0	0	0	0	0	0	0
FVKQDQVCIAR	GSPT1; GSPT2; GSP	P15170; Q8IYD1;	ERF3A	HUM	Unmodified	826840	1503200	1458900	75668	78933	87600	0	0	0
FVLNLIK	BRIX1	Q8TDN6	BRX1	HUMA	Unmodified	511350	531370	496490	0	0	0	8741.7	8067.3	0
FVLSGANIMCPGLTSPGAK	MCTS1; MCTS2P	Q9ULC4; A0A3B	MCTS1	HUM	Oxidation (M)	787540	563190	712590	0	0	0	0	0	0
FVLSQAKDEL	TXNDC5	Q8NBS9	TXND5	HUM	Unmodified	12967000	10327000	10559000	386420	392650	392150	66444	63507	64805
FVLSSGKFYGDEEKDK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	0	2384100	1889600	0	50619	0	0	0	0
FVLSSGKFYGDEEKDK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Methyl (KR)	1134900	3549100	1080900	0	0	0	0	0	0
FVLSSGKFYGDEEKDKGLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	11029000	21907000	20065000	0	0	26303	0	0	0
FVLSSGKFYGDEEKDKGLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Methyl (KR)	2312700	1324100	1775500	0	0	0	0	0	0
FVMEVEVDGQK	STRBP; ILF3	Q96SB9; Q12906	STRBP	HUM	Oxidation (M)	6917600	5941500	8270700	291820	239760	286710	0	0	0
FVMEVEVDGQKFQGAGSNKK	ILF3	Q12906	ILF3	HUMA	Oxidation (M)	2846700	2713600	0	0	0	133000	0	0	0
FVMKPPQVVR	EIF2S2	P20042	IF2B	HUMA	Oxidation (M)	1406300	1960600	3042700	94771	146010	82473	0	0	0
FVMQEEFSR	PDIA3	P30101	PDIA3	HUM	Oxidation (M)	15248000	16777000	18125000	255490	896900	686400	0	0	0
FVMQEEFSRDGK	PDIA3	P30101	PDIA3	HUM	Oxidation (M)	13396000	18313000	16999000	259170	234260	369190	0	0	0
FVMQEEFSRDGKALER	PDIA3	P30101	PDIA3	HUM	Oxidation (M)	28055000	25277000	22079000	533890	286120	109620	0	0	0
FVNLFPEVKPTIQDVLR	AP2A2; AP2A2; AP2	O94973; A0A0G2	AP2A2	HUM	Unmodified	82730	64896	92876	0	0	0	0	0	0
FVNLGIEPPK	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUMA	Unmodified	1395700	1505000	1294000	0	15242	0	0	0	0
FVNLGIEPPKGVLLFGPPGTGK	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUMA	Unmodified	1350800	1017600	1167600	0	0	0	0	0	0
FVNLGIEPPKGVLLFGPPGTGK	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUMA	Deamidation (N)	965840	724600	1179100	0	0	0	0	0	0
FVNVVPTFGK	FAU; FAU	P62861; E9PR30	RS30	HUMA	Deamidation (N)	1817600	1227900	731590	106870	114590	113220	0	9744.7	0
FVNVVPTFGK	FAU; FAU	P62861; E9PR30	RS30	HUMA	Unmodified	21963000	18357000	16256000	962190	684650	783140	0	0	0
FVNVVPTFGKK	FAU; FAU	P62861; E9PR30	RS30	HUMA	Unmodified	7267600	6976400	6766600	187750	238470	253170	21726	12846	0
FVPAEMGTHTVSVK	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA	HUMA	Oxidation (M)	11779000	16521000	12463000	440020	461820	381800	0	34914	0
FVPDKEFSGSDR	SNW1; SNW1	Q13573; G3V4X8	SNW1	HUM	Unmodified	4422500	0	2507500	183110	0	58663	0	0	0
FVPFAAVAAANCINIPLMR	SFXN3; SFXN1; SFX	Q9BWM7; Q9H9I	SFXN3	HUM	Oxidation (M);Deai	1018500	656910	707500	0	0	0	0	0	0
FVPLLPGNR	PRKDC	P78527	PRKDC	HUM	Unmodified	4512700	4624600	3699200	0	0	0	0	0	0
FVPPALEK	NAXE; NAXE	Q8NCW5; A0A7P	NNRE	HUMA	Unmodified	9173200	9536000	7019800	188780	147850	0	0	0	0
FVPQEMGVHTVSVK	FLNB; FLNB; FLNB	O75369; H7C5L4;	FLNB	HUMA	Oxidation (M)	5491200	4855600	5152300	1515000	1146000	1259300	0	0	137290
FVPTALR	WBP11; SLC27A3; S	Q9Y2W2; Q5K4L	WBP11	HUM	Unmodified	2600800	1874500	2043300	0	39460	52086	0	0	0
FVQCPDGELQK	RUVBL2; RUVBL2	Q9Y230; M0R0Y	RUVB2	HUM	Unmodified	0	788900	669030	0	0	0	0	0	0
FVQDLSK	UGP2; UGP2	Q16851; C9J6Q0	UGPA	HUMA	Unmodified	1638200	1755700	1942900	76540	0	0	0	0	0
FVQDTLKGDGVTEIR	TRAPPC3; TRAPPC	O43617; A0A087	TPPC3	HUM	Unmodified	2145900	1860500	2624700	0	0	0	0	0	0
FVQETELSQR	NCAPH2; NCAPH2;	Q6IBW4; H0YC55	CNDH2	HUM	Unmodified	621970	0	606310	0	0	0	0	0	0
FVQEVVQSQQVAVGR	ARHGEF1; ARHGEF	Q92888; M0QZR4	ARHG1	HUM	Unmodified	903310	1244000	847770	0	93774	44041	9265.7	14152	0
FVQIVDEANAR	DUSP23	Q9BVJ7	DUS23	HUM	Unmodified	0	0	959330	0	0	0	0	0	0
FVSEAELDER	PSME3IP1; PSME3IP	Q9GZU8; Q6P4H7	PIP30	HUMA	Unmodified	2235800	3306400	2108100	0	0	0	0	0	0
FVSEEHRDLALQR	ESRP1; ESRP1; ESRI	Q6NXG1; H0YBR	ESRP1	HUM	Unmodified	1405100	1254600	1700200	0	0	0	0	0	0
FVSEEIER	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	1997000	1950500	922900	0	0	0	0	0	0
FVSEGDGGR	PDCD4	Q53EL6	PDCD4	HUM	Unmodified	1612300	1716900	1804900	192400	206420	203040	0	0	0
FVSELWK	MYH9	P35579	MYH9	HUM	Unmodified	963850	1069100	813660	0	0	0	0	0	0
FVSFLGR	KPNA2; KPNA2; KP	P52292; J3QLL0;	IMA1	HUMA	Unmodified	4090800	2906500	3538500	0	0	0	0	0	0
FVSISDLLVPK	GDI2	P50395	GDIB	HUMA	Unmodified	27639000	22947000	28644000	45753	0	40539	0	44059	35625
FVSNITR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1	HUM	Unmodified	1029900	1206000	1598500	0	0	0	0	0	0
FVTISGQK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	1960300	1274300	1704100	0	0	0	0	0	0
FVTKINMNGINNSSGMVDAR	UBE2V2; UBE2V2; U	O15819; H0YBP9	UB2V2	HUM	2 Oxidation (M);3 I	3256600	1232400	2022500	0	110050	257640	0	0	0
FVTKINMNGVNSSNGVVDPR	UBE2V1; UBE2V1; U	Q13404; G3V2F7;	UB2V1	HUM	Oxidation (M);4 De	939280	2387900	2875800	61908	0	68993	0	0	0
FVTLLYR	ACP2; ACP2; ACP2;	P11117; B7Z6U3;	PPAL	HUMA	Unmodified	3726300	3171700	4162100	0	0	0	0	0	0
FVTLVFR	ACP3; ACP3	P15309; E9PFE6	PPAP	HUMA	Unmodified	0	0	0	3063800	2801100	2738700	482740	0	0
FVTVQTISGTGALR	GOT2	P00505	AATM	HUM	Unmodified	1494500	963230	1761900	43593	29780	39046	0	0	0
FVVDLSDQVAPTDIEEGMR	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUMA	Oxidation (M)	2204500	2517900	3903200	0	0	0	0	0	0
FVVEKAEQQK	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB	HUMA	Unmodified	4942900	4117000	4972900	349230	413300	388780	32458	0	0
FVVEKAEQQKK	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB	HUMA	Unmodified	5691900	12187000	12541000	1313200	1470700	0	192620	152060	0
FVVGSHVR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	4199300	4532600	4097800	0	0	53250	0	0	0
FVVQNVSAQKDGEK	HSPH1; HSPH1	Q92598; A0A0A0	HS105	HUM	Unmodified	1359600	1398000	1655200	11674	0	0	0	0	0
FVVTDGGITR	CACNA2D1; CACNA	P54289; H0Y715	CA2D1	HUM	Unmodified	553350	0	1563300	0	23019	0	0	0	0
FWAYEQYKK	SLC25A24	Q6NUK1	SCMC1	HUM	Unmodified	469650	350760	0	0	0	0	0	0	0
FWEVISDEHGIDPTGSYHGDSDLQLER	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A	HUM	Unmodified	37204000	17300000	23574000	0	0	0	0	0	0
FWEVISDEHGIDPTGTYHGDSDLQLDR	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Unmodified	32280000	19920000	41399000	0	0	0	0	0	0
FWEVISDEHGIDPTGTYHGDSDLQLER	TUBB4A; TUBB4B;	P04350; P68371;	TBB4A	HUM	Unmodified	24225000	13071000	23672000	0	0	0	0	0	0
FYAGGSER	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C	HUM	Unmodified	3137600	3894900	3061100	0	286530	0	0	38862	41178
FYALDPSFPR	NSUN2	Q08J23	NSUN2	HUM	Unmodified	4512200	4143300	3800400	55492	0	0	0	0	0
FYALSASFEPFSNK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	1961900	1553200	1916600	0	0	22927	15893	18650	0
FYATLVR	ARID1B; ARID1B; A	Q8NFD5; A0A6Q	AR11B	HUM	Unmodified	814970	586460	906590	0	8478.2	0	0	0	0
FYAYNPLAGGLLTGK	AKR7L; AKR7A2; A	Q8NHP1; O43488	ARK74	HUM	Unmodified	6890600	4794900	4476800	10292	0	0	0	0	0
FYDDAIVSQK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	2066600	2794900	3386200	0	0	0	0	0	0
FYDLSSK	PSMD13; PSMD13; F	Q9UNM6; A0A08	PSD13	HUM	Unmodified	0	1413500	1931200	0	0	28553	0	0	0
FYEAFSK	HSP90AB1	P08238	HS90B	HUM	Unmodified	41547000	36783000	40342000	19600	314570	218770	0	0	0
FYEEVHDLER	NAP1L4; NAP1L1; N	Q99733; P55209;	NP1L4	HUM	Unmodified	26781000	25831000	27256000	206360	211810	285950	0	17837	0
FYEEVHDLERK	NAP1L4; NAP1L1; N	Q99733; P55209;	NP1L4	HUM	Unmodified	7076900	8435000	17122000	0	0	249140	0	0	0
FYEQFSK	HSP90AA1	P07900	HS90A	HUM	Unmodified	24695000	22839000	26460000	203200	199700	164220	0	0	0
FYEQFSKNIK	HSP90AA1	P07900	HS90A	HUM	Unmodified	914060	0	921430	0	0	0	0	0	0
FYEQMNGPVAGASR	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D	HUMA	Oxidation (M);Deai	11202000	10811000	12007000	443120	454210	504730	0	0	0
FYFDRNPYFQNK	TSPYL5	Q86VY4	TSYL5	HUM	Unmodified	324710	258700	270390	0	0	0	0	0	0
FYFHLGDAMQR	ASPH	Q12797	ASPH	HUMA	Oxidation (M)	401090	662550	398120	10914	7335	14815	0	0	0
FYFWTK	NDUFA8	P51970	NDUA8	HUM	Unmodified	5289500	5137300	3855000	265470	555870	0	0	0	0
FYGDEEKDK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	2820200	2015600	3227100	0	16746	0	0	0	0
FYGDEEKDKGLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Unmodified	42101000	39385000	37308000	148520	136820	150190	0	0	0
FYGDEEKDKGLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUMA	Methyl (KR)	4489900	4341600	4722200	0	0	0	0	0	0
FYGDLMEK	DDX23	Q9BUQ8	DDX23	HUM	Oxidation (M)	648680	666030	717560	44385	68622	60230	0	0	0
FYGKNSSYVHGGLDSNGKPADAVYGQK	G3BP1; G3BP1; G3B	Q13283; A0A7Z	G3BP1	HUM.	2 Deamidation (N)	1441200	1252400	972120	0	48626	0	0	0	0
FYGPAGPYGIFAGR	PGRMC2	O15173	PGRC2	HUM	Unmodified	10381000	837910	9344100	0	0	0	0	0	0
FYGPEGPYGVFAGR	PGRMC1	O00264	PGRC1	HUM	Unmodified	5848900	5570700	5796000	154180	239120	163440	62223	56863	40055
FYGRDYEYNR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	900200	724620	992990	19625	44556	24221	0	0	0
FYIDPYK	GAR1	Q9NY12	GAR1	HUMA	Unmodified	251730	212880	183540	0	0	0	0	0	0
FYIDPYKLLPLQR	GAR1	Q9NY12	GAR1	HUMA	Unmodified	436190	378780	0	0	0	0	0	0	0
FYLDLYPR	NLN; THOP1; NLN;	Q9BYT8; P52888;	NEUL	HUM	Unmodified	3768900	2161500	1660200	0	0	0	0	0	0
FYLGGPTSIR	SAMM50	Q9Y512	SAM50	HUM	Unmodified	1239000	512890	796520	0	26172	10850	0	0	0
FYLQNR	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4	HUM	Unmodified	2057300	2025500	1866000	0	0	0	0	0	0
FYNELTEILVR	PLCD4IP	Q8WUM4	PDC6I	HUM	Unmodified	1088800	0	0	0	0	0	0	0	0
FYNLVLLPR	BYSL; BYSL	Q13895; H7BY94	BYST	HUMA	Unmodified	759960	578290	670940	0	0	0	0	0	0
FYPGQAPSLAENFAEHVLR	BCS1L; BCS1L	Q9Y276; H7C492	BCS1	HUM	Unmodified	617820	624250	913000	0	0	0	0	0	0
FYPLEIDYGQDEEAVK	PARP1	P09874	PARP1	HUM	Unmodified	902670	1012500	0	0	0	0	0	0	0
FYPLEIDYGQDEEAVKK	PARP1	P09874	PARP1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
FYQASTSELYGK	GMDS	O60547	GMDS	HUM	Unmodified	1095600	1438500	888800	0	0	0	0	0	0
FYQPYSEDTQQQIIR	AP3S1; AP3S1	Q92572; F5H459	AP3S1	HUM	Unmodified	855650	473820	497930	0	0	0	0	0	0
FYQVPVPLPDRR	MRPS7; MRPS7; MR	Q9Y2R9; J3QLS3	RT07	HUMA	Unmodified	2502100	2230500	1567800	31478	0	33009	0	0	0
FYRAPEIIIGK	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Unmodified	2441900	1258000	644360	0	55315	32657	0	0	0
FYSFLVLK	RAD21L1; RAD21; R	Q9H4I0; O60216;	RD21L	HUM	Unmodified	454940	247960	324370	0	0	0	0	0	0
FYSLPQSPQQFK	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM	HUM	Unmodified	2287200	1878200	2395700	0	0	0	0	0	0
FYSQAIELNPSNAIYYGNR	PPP5C; PPP5C	P53041; H0YDU8	PPP5	HUMA	Unmodified	1338700	1161800	1173200	0	0	0	0	0	0

FYSQAIELNPSNAJVYGNR	PPP5C; PPP5C	P53041; H0YDU8	PPP5_HUMA	Deamidation (N)	466920	214940	336860	0	0	0	0	0	0
FYSTDEMDLDFTKLQRNMACCYLNLQQLDK	TEX11	Q8IYF3	TEX11_HUM	Oxidation (M);Metl	3614500	3076500	0	0	0	0	925510	746360	790000
FYSVNVDYSK	NDUFA4	O00483	NDUA4_HUM	Unmodified	1091200	1212300	1220300	103560	161480	47047	0	0	0
FYTDPVEAVK	OXCT1	P55809	SCOT1_HUM	Unmodified	1092600	1323500	0	0	0	0	0	0	0
FYTEDSPGLK	SEC61B; SEC61B	P60468; S4R3B5	SC61B_HUM	Unmodified	2286400	2307800	1910800	0	0	0	0	0	0
FYTLIPHDFGMK	PARP1; PARP1	P09874; A0A7Z7	PARP1_HUM	Oxidation (M)	1428500	1220700	523000	0	0	0	0	0	0
FYVPPTQEDGVDPVEAFAQNVLSK	SSRP1; SSRP1	Q08945; E9PMD4	SSRP1_HUM	Unmodified	849390	665950	729510	0	0	0	0	0	0
GAAAAAAASGAAGGGGGAGAGAPGGGR	INTS3	Q68E01	INT3_HUMA	Unmodified	617730	1301700	706090	0	0	0	0	0	0
GAAAAATGQPGTAPAGTPGAPPLAGMAIVK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M)	15855000	14425000	16482000	369810	467780	505480	0	0	0
GAAAMIPGPQTVATEIR	EPB41L1; EPB41L1;	Q9H4G0; H7C2K(	E41L1_HUM	Oxidation (M)	0	476090	1508400	0	0	91515	0	0	0
GAADAIAQAK	DPYSL4; DPYSL4	O14531; Q5T0Q6	DPYL4_HUM	Unmodified	2258700	1444000	1553700	0	0	0	0	0	0
GAADVEKVEEK	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUM	Unmodified	873710	691120	974890	0	0	0	0	0	0
GAAGALLVYDITR	RAB2A; RAB2B; RA	P61019; Q8WUD1	RAB2A_HUM	Unmodified	0	3457800	2902500	0	0	6316.3	0	0	0
GAAGALLVYDITRR	RAB2A; RAB2B; RA	P61019; Q8WUD1	RAB2A_HUM	Unmodified	2498100	0	0	0	0	0	0	0	0
GAAGALMVYDITR	RAB14; RAB14	P61106; X6RFL8	RAB14_HUM	Oxidation (M)	2187700	1996800	1621100	88059	75108	83317	0	0	0
GAAGALMVYDITRR	RAB14; RAB14	P61106; X6RFL8	RAB14_HUM	Oxidation (M)	3998300	2248300	1477600	67089	177080	238250	0	0	0
GAAGDWGER	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Unmodified	630740	914050	806880	20246	25734	0	0	0	0
GAAGDWGERANQVLK	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Unmodified	383180	734840	440320	0	0	0	0	0	0
GAAGRPLELSDFR	TMPO; TMPO; TMP	P42167; G5E972;	LAP2B_HUM	Unmodified	11314000	10047000	11821000	173250	129440	154080	0	0	0
GAAGRPLELSDFRMEESFSSK	TMPO; TMPO; TMP	P42167; G5E972;	LAP2B_HUM	Oxidation (M)	13634000	9204600	7887100	0	0	52304	0	0	0
GAAIPAKGAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	0	1564500	2984000	0	0	0	0	0	0
GAAKEAAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	0	348440	168710	210020	0	0	0	0	0
GAAKEAAGKSSGPTSLFAVTVAPPGAR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	0	701350	0	2214300	1847300	1948400	258180	351610	137140
GAALITAVACR	HK2; HK2	P52789; E9PB90	HXK2_HUM	Unmodified	459220	0	539420	0	0	0	0	0	0
GAALITAVGVR	HK1	P19367	HXK1_HUM	Unmodified	3787500	3270400	2623400	89735	58356	93021	0	0	0
GAAMVTAVAYR	HK2; HK1; HK2	P52789; P19367;	HXK2_HUM	Oxidation (M)	1960700	1061600	1209300	106210	127390	77192	0	22064	0
GAAPPAAATAYDRH	PAX5; PAX5; PAX5;	Q02548; H0YB47	PAX5_HUM	Unmodified	545660	0	679420	0	0	0	0	0	0
GAAVDEYFRQPVVDTFDIR	CARM1; CARM1	Q86X55; K7EQA8	CARM1_HUM	Unmodified	908660	339000	1661000	0	0	0	0	0	0
GAAVSNNIVVRPSR	NRCAM; NRCAM; N	Q92823; A0A087	NRCAM_HUM	Deamidation (N)	1483100	151360	742650	0	0	0	0	0	0
GADDAMESSKPGPVQVVLVQK	ATL3; ATL3	Q6DD88; F5GWF	ATLA3_HUM	Oxidation (M)	1747300	433740	502210	40877	85058	0	0	0	0
GADFLVTEVENGGSLGSK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Deamidation (N)	19529000	15606000	19061000	231720	162340	128160	40812	49537	0
GADFLVTEVENGGSLGSK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Unmodified	0	0	239370	98620	96744	92472	121170	175650	60735
GADFLVTEVENGGSLGSKK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Deamidation (N)	7006900	10237000	11260000	77096	39617	104660	0	0	30580
GADFQCFQQAR	COL18A1; COL18A1	P39060; H7C457;	COIA1_HUM	Unmodified	1191600	0	571850	247040	274320	239120	0	0	0
GADGSPGKDGVR	COL1A1	P02452	CO1A1_HUM	Unmodified	1098200	2163800	0	759120	264990	1222100	27055	331310	0
GADIDALCVAPR	PAPOLG; PAPOLA;	Q9BWT3; P51003	PAPOG_HUM	Unmodified	564130	651570	0	28123	29830	37347	0	55484	0
GADKVNTFSALLLEPYKPPSAQ	GET3	O43681	GET3_HUMA	Unmodified	5482200	6753700	9028400	0	0	0	0	0	0
GADKVNTFSALLLEPYKPPSAQ	GET3	O43681	GET3_HUMA	Deamidation (N)	3985300	5408000	3288000	0	0	0	0	0	0
GADSELSTVPSVTK	NOP2	P46087	NOP2_HUMA	Unmodified	1693000	1498600	0	0	287630	0	0	0	0
GADTAPTLAPEALPSQGEVER	PELP1; PELP1	Q8IZL8; C9JFV4	PELP1_HUM	Unmodified	3005800	2332600	0	127740	85397	59541	0	0	0
GAEAANVTGPGGVPVQGSK	YBX1; YBX1; YBX1	P67809; C9J5V9;	YBOX1_HUM	Unmodified	4830000	6061200	5146500	446470	490970	542710	0	0	13002
GAEDALVTLNMVPGQSVYGER	FBLL1	A6NHQ2	FBLL1_HUM	Oxidation (M)	168060	0	686020	0	0	0	0	0	0
GAEEEPPPPLQAVLVADSFDR	EIF2B5; EIF2B5; EIF	Q13144; A0A3B3	EI2BE_HUM	Unmodified	299390	161940	212920	0	0	0	0	0	0
GAEEEPPPPLQAVLVADSFDRR	EIF2B5; EIF2B5; EIF	Q13144; A0A3B3	EI2BE_HUM	Unmodified	2295000	3542900	0	0	0	0	0	0	0
GAEEMETVIPVDVMR	PARK7; PARK7	Q99497; K7ELW0	PARK7_HUM	2 Oxidation (M)	18543000	25097000	15354000	669320	676960	0	0	0	0
GAEEMETVIPVDVMRR	PARK7; PARK7	Q99497; K7ELW0	PARK7_HUM	2 Oxidation (M)	184760000	230310000	237230000	9402500	7474900	5992400	195280	283340	175730
GAEEQLR	PPL; PPL; PPL	O60437; K7EQ71;	PEPL_HUMA	Unmodified	201290	147990	369430	0	39590	12243	0	0	0
GAEGPEAER	PKP3; PKP3	Q9Y446; E9PQ15	PKP3_HUMA	Unmodified	144440	0	251940	0	0	0	0	0	0
GAEHITTYTFNTHK	CENPV	Q7Z7K6	CENPV_HUM	Unmodified	0	768620	600220	0	0	0	0	0	0
GAEIEYAMAYSK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Oxidation (M)	5752800	5349800	7667800	1276600	1160000	1202100	0	0	0
GAEIINPK	ZNF638	Q14966	ZN638_HUM	Unmodified	434490	382480	396380	23190	23132	0	0	0	0
GAEILADTFKDYAVSTVPVADGLHLK	DDAH1; DDAH1	O94760; B4DYP1	DDAH1_HUM	Unmodified	2765700	2717500	1174700	0	0	0	0	0	0
GAENFDKFFTR	PRKCA	P17252	KPCA_HUMA	Unmodified	271660	269560	256640	56872	49940	57472	33128	0	22840
GAEQLAEGGR	NSUN2	Q08J23	NSUN2_HUM	Unmodified	7597700	8921700	8526300	180280	192270	313020	0	0	0
GAESPFEEK	MAP1B	P46821	MAP1B_HUM	Unmodified	2484500	3865800	1959900	303190	301270	314530	0	0	0
GAESPFEEKSGK	MAP1B	P46821	MAP1B_HUM	Unmodified	545750	580120	810720	116260	112930	113570	0	0	0
GAETELVR	NOP2; NOP2; NOP2;	P46087; F5H8G6;	NOP2_HUMA	Unmodified	1442800	1359800	0	39422	0	71959	0	0	0
GAEYVASVLK	SCIN	Q9Y6U3	ADSV_HUM	Unmodified	3304800	3918000	2837300	0	0	0	0	0	0
GAEYVSAR	SF3B1; SF3B1	O75533; H7C341	SF3B1_HUM	Unmodified	1408300	546990	1338500	0	0	0	0	22950	0
GAFFMDEDEEVYKR	MFAP1	P55081	MFAP1_HUM	Oxidation (M)	2983600	0	0	0	0	148510	0	0	0
GAFGEVQLVR	ROCK2; ROCK1; RO	O75116; Q13464;	ROCK2_HUM	Unmodified	1303900	1037400	1489900	64877	66337	72576	0	0	0
GAFGKPQGTTVAR	RPL10; RPL10L; RPI	P27635; Q96L21;	RL10_HUMA	Unmodified	735440	510460	667670	0	0	0	0	0	0
GAFSEEYK	CNP; CNP; CNP; CN	P09543; K7ERZ0;	CN37_HUMA	Unmodified	519610	593490	450240	31687	0	26453	0	0	0
GAFSPFGNIIDLSMDPPR	NELFE; NELFE	P18615; A0A0A0	NELFE_HUM	Oxidation (M)	398260	356540	353240	0	0	0	0	0	0
GAFTDNER	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP_HUMA	Unmodified	0	617730	658450	0	0	0	0	0	0
GAGAGHPGAGGAQPPDSPAGVR	SNTB1; SNTB1	Q13884; A0A3B3	SNTB1_HUM	Unmodified	441590	419610	0	0	0	0	0	0	0
GAGAKK	MRPS5; H1-10	P82675; Q92522	RT05_HUMA	Methyl (KR)	29877	0	0	0	0	0	0	0	0
GAGATSGSPPAGIRN	MGMT; MGMT	P16455; B4DEE8	MGMT_HUM	Unmodified	450360	430880	534850	115830	102100	134940	0	0	0
GAGGQGKLDVTILSPSR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	2549900	1792100	1275900	336960	288040	234850	188440	122870	85914
GAGGQGQLDVR	FLNC	Q14315	FLNC_HUMA	Unmodified	0	0	0	0	0	0	81519	56700	56510
GAGHMVPTDKPLAAFTMFSR	CTSA; CTSA; CTSA;	P10619; X6R8A1;	PPGB_HUMA	2 Oxidation (M)	1388300	1234300	1513000	0	0	0	0	0	0
GAGIGGLGITVEGPSESK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1070300	0	906190	125090	116180	84913	0	0	32305
GAGLGFSTAPNKIFYIDR	KNOP1; KNOP1	Q1ED39; H3BNU	KNOP1_HUM	Unmodified	407290	1116600	268240	0	0	0	0	0	0
GAGLSATIAR	NCOR1; NCOR1; NC	O75376; E7EVU5	NCOR1_HUM	Unmodified	625850	0	0	0	0	33344	0	10767	0
GAGNGVVPAGVILER	MDC1	Q14676	MDC1_HUM	Deamidation (N)	2617100	3104900	2665400	39150	0	14098	0	0	0
GAGSAMSTDAYPKNPHLR	SNAP29; SNAP29	O95721; C9JAF7	SNP29_HUM	Oxidation (M)	645960	2340200	1274600	0	184470	68894	0	0	0
GAGSIAGASASPK	DSP	P15924	DESP_HUMA	Unmodified	8092900	7548700	6823200	271890	232350	192940	35827	30681	0
GAGSYTIMVLFADQATPTSPIR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Oxidation (M)	5314700	3135500	4860000	0	0	0	31410	0	0
GAGTAVQMR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB_HUM	Oxidation (M)	984880	926610	1214800	28303	41897	0	0	0	0
GAGTDDSTLVR	ANXA7	P20073	ANXA7_HUM	Unmodified	2906100	1773500	2111500	0	0	78002	0	6548.7	0
GAGTDEGCLIEILASR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4_HUM	Unmodified	606190	0	0	0	0	0	0	0	0
GAGTGGLGLAVEGPSEAK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	9877900	9840600	9900800	788720	847790	887220	189250	1529300	470890
GAGWLFGAK	PPP6C	O00743	PPP6_HUMA	Unmodified	2368000	1495400	1851000	52239	33384	46396	0	0	0
GAGYTFGQDISETFNHANGLTLVSR	PPP2CB; PPP2CA; P	P62714; P67775;	PP2AB_HUM	Deamidation (N)	3446000	1753300	2045800	0	0	0	0	0	0
GAGYTFGQDISETFNHANGLTLVSR	PPP2CB; PPP2CA; P	P62714; P67775;	PP2AB_HUM	2 Deamidation (N)	1179100	0	0	0	0	0	0	0	0
GAHLTALEMLTAFASHIR	MRPL53	Q96EL3	RM53_HUMA	Oxidation (M)	4858500	4471500	6817700	0	0	0	0	0	0
GAHSVGLMWWMLAR	RPSA; RPSA; RPSA	P08865; A0A0C4	RSSA_HUMA	2 Oxidation (M)	0	0	324000	0	0	0	0	0	0
GAIEVLIR	RBM25; RBM25	P49756; E9PQU5	RBM25_HUM	Unmodified	954320	677920	588330	39620	24353	23585	0	0	0
GAILTGPPGTGK	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	2629900	3124100	3580200	59345	75218	69786	0	0	0
GAIREYQTQLIQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1002300	826710	1110900	42476	0	0	0	0	0
GAKAEEILEK	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	Unmodified	1417700	1154800	1288300	39439	46984	62236	0	0	0
GAKDGALTLLLDEFENMSVTR	PAK4; PAK4	O96013; M0R2X4	PAK4_HUMA	Oxidation (M)	255970	0	308120	0	0	0	0	0	0
GAKDGALTLLLDEFENMSVTR	PAK4; PAK4	O96013; M0R2X4	PAK4_HUMA	Oxidation (M);Deai	67927	0	48995	0	0	0	0	0	0
GAKEHGAVAVER	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K(	NSF1C_HUM	Unmodified	0	0	1743600	49654	0	81855	0	0	0
GALALAQAVQR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	2861700	2403100	2759700	0	0	0	0	0	0
GALALEEK	MYH9	P35579	MYH9_HUM	Unmodified	5411000	5187000	5072200	361740	497280	371750	0	0	0
GALDMLTK	DCXR; DCXR; DCXI	Q7Z4W1; J3KSZ5	DCXR_HUM	Oxidation (M)	0	819530	1036400	0	64711	0	0	0	0
GALEGLPRPPPPVK	PM20D2	Q8IYS1	PM20D2_HUM	Unmodified	962280	870030	698430	0	0	0	0	0	0
GALFGANANRKFLD	ATP6V1E1	P36543	VATE1_HUM	2 Deamidation (N)	1717100	0	2594900	150410	177290	100730	44569	93576	133600
GALINVPPPFLGLPR	VARS1; VARS1	P26640; A0A140	SYVC_HUMA	Unmodified	303160	268460	249030	0	0	0	0	0	0
GALIVLEGVDR	DTYMK; DTYMK	P23919; G5E9E9	KTHY_HUM	Unmodified	2780800	1729200	2124800	36722	40161	33157	0	22335	0
GALNPADITVLFK	NELFCD; NELFCD;	Q8IXH7; H0UI80;	NELFD_HUM	Unmodified	813700	899060	941680	0	0	0	0	0	0
GALPLDTVTFYK	ERP29	P30040	ERP29_HUM	Unmodified	86325000	54527000	63648000	268810	267220	229650	25239	0	26878
GALPLDTVTFYKVIPK	ERP29	P30040	ERP29_HUM	Unmodified	3085700	2478000	2563600	22095	0	0	0	0	0
GALPLDTVTFYKVIPK	ERP29	P30040	ERP29_HUM	Methyl (KR)	6512600	5406700	5266000	0	0	0	0	0	0
GALQGSAWQVSSEDVR	LAS1L; LAS1L	Q9Y4W2; A0A7I2	LAS1L_HUM	Unmodified	528790	710400	703360	0	0	0	0	0	0
GALQNIIPASTGAAK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	403240000	359990000	353830000	4385300	5438800	5001000	467610	441960	52468
GALQNIIPASTGAAK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Deamidation (N)	27955000	23984000	22009000	253460	241980	307650	21865	0	0
GALQNIIPASTGAAK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Methyl (KR)	10679000	10308000	11331000	0	0	17327	0	0	0
GALQNIIPASTGAAKAVGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Methyl (KR)	10870000	8347500	7708700	90159	34669	0	0	0	0
GALQNIIPASTGAAKAVGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	6586400	14627000	15659000	65577	52854	52375	0	0	0
GALQQGEAFQR	PBXIP1	Q96AQ6	PBIP1_HUM	Unmodified	0	0	0	0	290880	242730	230540	0	0
GALQYLVPILTQTLTK	KPNB1	Q14974	IMB1_HUMA	Unmodified	252960	0	127130	0	0	0	0	0	0
GALTGGYYDTR	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	5198600	3930600	4634200	121030	143040	199740	0	0	0
GALTGGYYDTRK	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	900430	1180300	623930	0	22938	41204	0	0	0
GALTTVEGLITR	ZPR1; ZPR1; ZPR1	O75312; H7C0E5;	ZPR1_HUMA	Unmodified	0	0	758610	0	0	0	0	0	0
GAMAATYSALNSSKPTPQLKPIESSILAQR	RPS6KA1; RPS6KA1	Q15418; Q5SVM7	KS6A1_HUM	Oxidation (M);Deai	1249100	1318400	1525900	0	0	0	0	0	0
GAMEELEK	SMAD1; SMAD5; SM	Q15797; Q99717;	SMAD1_HUM	Unmodified	0	0	28711000	0	0	0	0	0	0
GAMELEPELLLQEAR	CRLF3; CRLF3	Q8IUI8; J3KST8	CRLF3_HUM	Oxidation (M)	1355600	478280	1005400	0	0	0	0	0	0
GAMPPAPVPAGTPAPPGPATMMPDGTLGLTPPTTER	NONO; NONO; NON	Q15233; A0A7Z1	NONO_HUM	3 Oxidation (M)	14269000	9960600	9611600	0	0	0	0	0	0
GAMSTQQIK	AARS1; AARS1; AAI	P49588; A0A6Q8	SYAC_HUMA	Unmodified	71864	12479000	693680	0	0	0	16053	59589	11035
GANIQLLDLPGIIEGAAQGK	DRG2; DRG2; DRG2	P55039; J3QKW7	DRG2_HUMA	Unmodified	135450	33211	89190	0	0	0	0	0	0
GANLKDYYSR	DHX9	Q08211	DHX9_HUMA	Unmodified	2220000	2785400	2275500	0	0	60747	0	0	0
GANPVEIR	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	28788000	27615000	32498000	235010	387130	402630	0	0	0
GANPVEIRR	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	8112300	7927900	6244300	0	0	0	0	0	0
GANQWIK	PDHA1; PDHA1	P08559; Q5JPU3	ODPA_HUM	Unmodified	2120000	452200	0	0	0	0	16498	29057	27592
GANRTETVTSFR	PRKDC	P78527	PRKDC_HUM	Unmodified	2291400	2437500	2069300	0	88597	0	0	0	0
GANRTETVTSFR	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	0	1977500	0	0	0	0	0	0	0
GAPAAATAPAPTAHK	H1-10	Q92522	H1X_HUMAN	Unmodified	22005000	21955000	16367000	1103700	1132900	1076600	129100	124210	120610
GAPAVVISQGR	DPYSL4	O14531	DPYL4_HUM	Unmodified	2726200	3026200	2697700	0	0	0	0	0	0
GAPDPRVDDDSLGEFPVTNSR	DPF2; DPF2	Q92785; J3KMZ8	REQU_HUM	Deamidation (N)	1567400	1122800	822760	82911	61382	59546	0	0	0
GAPEGVIDR	ATP2A1; ATP2A2; A	O14983; P16615;	AT2A1_HUM	Unmodified	2824300	3049400	3098400	152780	169160	155930	0	0	0

GAPESVIER	ATP2A3	Q93084	AT2A3_HUM	Unmodified	878020	981560	734380	68039	27571	0	0	0	0
GAPGQPGTILR	HCFC1; HCFC1	P51610; A6NEM2	HCFC1_HUM	Unmodified	1952400	1657900	1494600	173320	35331	0	0	0	0
GAPLAPPAEDLLALYPGPDEK	INSM1	Q01101	INSM1_HUM	Unmodified	769410	834100	562200	0	0	0	0	0	0
GAPPPGEPGLSHSGSEQPEQTGLLMGGASGGAR	BCAM	P50895	BCAM_HUM	Oxidation (M)	1674200	3769300	3633400	644590	1041100	1061200	0	0	82569
GAPPSSNIEDFHGLLPK	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Unmodified	38647000	39081000	36099000	1310000	1343000	978470	159460	139370	107580
GAPPSSNIEDFHGLLPK	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Deamidation (N)	1429200	1125000	1295700	22017	41430	25181	0	0	0
GAPQHYPK	EIF4G2; EIF4G2; EIF	P78344; H0YCF8;	IF4G2_HUM	Unmodified	323080	470220	403120	39295	77304	0	10967	0	10543
GAPVGGHILSYLLEK	MYO1C; MYO1C	O00159; F5H6E2	MYO1C_HUM	Unmodified	1864900	1279400	1424500	0	0	0	0	0	0
GAPVIVPELGKPR	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5;	NCOR2_HUM	Unmodified	786700	596310	698760	82544	0	93154	0	24065	0
GAPVNISSSDLTGR	CSNK1D; CSNK1D;	P48730; H7BYT1;	KC1D_HUM	Unmodified	546770	611690	416400	0	41318	0	0	0	0
GAPVNISSSDLTGRQDTSR	CSNK1D; CSNK1D;	P48730; H7BYT1;	KC1D_HUM	Unmodified	1376700	1219500	1895100	25856	154930	0	0	0	0
GAPYNALTGK	NENF	Q9UMX5	NENF_HUM	Unmodified	2261800	1454100	0	0	38143	57875	0	0	0
GAPYNALTGKDSTR	NENF	Q9UMX5	NENF_HUM	Deamidation (N)	2616200	3537700	2678000	72226	80456	72930	0	0	0
GAPYNALTGKDSTR	NENF	Q9UMX5	NENF_HUM	Unmodified	3899900	4430500	2998500	160700	192580	206780	0	0	0
GAQAAIVVYDITNEESFAR	RAB5A	P20339	RAB5A_HUM	Unmodified	3602600	1667500	3792500	0	0	0	0	0	0
GAQAAIVVYDITNQETFAR	RAB5B; RAB5B	P61020; F8VUA5	RAB5B_HUM	Unmodified	1955800	0	950320	0	0	0	0	0	0
GAQEVGER	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUM	Unmodified	0	0	11883000	0	0	0	0	0	0
GAQEVGERLQQR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUM	Unmodified	1077200	0	1587300	75591	107210	104560	17161	0	0
GAQGHMECL	HNRNPC	B4DY08	B4DY08_HUM	Oxidation (M)	273630	263800	341360	66270	66793	74820	0	0	0
GAQGPAGPAGPPGLIGEQGISGPR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	0	1458200	0	246850	220710	54878	471040	197010	492160
GAQKPSPLELIR	KIAA1191; KIAA119	Q96A73; A0A087	P33MX_HUM	Unmodified	750820	909890	1246400	0	0	48046	0	0	0
GAQYQPILR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1_HUM	Unmodified	1488000	1446300	1791200	0	0	0	0	0	0
GAREFVEREVIDFAR	MRPL43; MRPL43;	Q8N983; H0Y6Y8	RM43_HUM	Unmodified	947270	1546900	1148600	0	0	0	0	0	0
GASDEEIKR	DNAJB1; DNAJB1	P25685; M0QXK(	DNJB1_HUM	Unmodified	1719300	1593500	1526200	208110	185060	174200	0	0	0
GASFVTSTNPR	LIG3; LIG3; LIG3	P49916; K7ERZ5;	DNLI3_HUM	Unmodified	3634400	4611100	0	0	0	0	0	0	0
GASGIQGLAR	CAPS; CAPS; CAPS	Q13938; A0A499	CAYP1_HUM	Unmodified	1336900	1962600	0	64801	87168	56010	0	0	0
GASGSFVVVQK	HP1BP3; HP1BP3	Q5SSJ5; Q5SWC8	HP1B3_HUM	Unmodified	3623000	3716200	3153900	612340	607400	711670	0	0	0
GASGTFQLK	HP1BP3; HP1BP3	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	3474800	4035900	3148600	482630	600390	533040	0	0	0
GASGTFQLKK	HP1BP3; HP1BP3	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	657090	716310	588840	154700	148980	207250	0	0	0
GASGTREDPNLVPSISNKR	COX5B	P10606	COX5B_HUM	Unmodified	4972200	5372400	5429000	699840	555290	781330	0	0	0
GASGTREDPNLVPSISNKR	COX5B	P10606	COX5B_HUM	Deamidation (N)	1647200	1921400	1367700	344790	0	107830	0	0	0
GASIVEDKLVEDLR	GLUD1	P00367	DHE3_HUM	Unmodified	2618000	3387800	3333300	91400	0	0	0	0	0
GASIVEDKLVEDLRTR	GLUD1	P00367	DHE3_HUM	Unmodified	1802000	794900	724380	0	0	0	0	0	0
GASKEILSEVER	CCT3; CCT3	P49368; B4DUR8	TCPG_HUM	Unmodified	2149000	2264700	2011300	0	0	0	0	0	0
GASKEILSEVERNLQDAMQVCR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUM	Oxidation (M)	431150	678970	1390600	0	0	0	0	0	0
GASLKSPLPSQ	MRPL52; MRPL52	Q86TS9; G3V3U6	RM52_HUM	Unmodified	1899000	1865200	1251200	385120	383750	428420	68570	71273	0
GASLLLYQR	SRGAP2; SRGAP2; S	O75044; Q5VZB4	SRGP2_HUM	Unmodified	1143000	0	827440	25443	0	49290	0	0	0
GASQAGMTAPGTKR	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1_HUM	Oxidation (M)	0	0	0	0	0	0	211210	238580	291980
GASQAGMTGYGMPR	TAGLN3; TAGLN2;	Q9UI15; P37802;	TAGL3_HUM	2 Oxidation (M)	21118000	26931000	22896000	1565600	1259700	1579300	459520	578160	519120
GASQAGMTGYGMPRQIL	TAGLN2	P37802	TAGL2_HUM	2 Oxidation (M)	0	0	0	0	0	0	376840	400710	50604
GASQEEEKGAEYVASVLK	SCIN	Q9Y6U3	ADSV_HUM	Unmodified	1114400	1079600	1129700	0	0	0	0	0	0
GASSAGEASEKEPLKLDPSR	ARVCF; ARVCF; AR	O00192; E9PDC3;	ARVC_HUM	Unmodified	327330	575330	330960	0	0	0	0	0	0
GASSPYGAPGTPR	RIF1; RIF1	Q5UIP0; H7BZN3	RIF1_HUM	Unmodified	421180	467080	454520	0	0	0	0	0	0
GASSSTNDASDPTTKEFETLIK	CPD; CPD	O75976; J3QQJ4	CBPD_HUM	Deamidation (N)	308650	395180	436930	0	0	0	0	0	0
GATELTHEDYMEGILEVQAK	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A_HUM	Oxidation (M)	5611600	4158800	3972000	212590	153920	95413	37317	0	0
GATQQILDEAER	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUM	Unmodified	3622500	3087200	3599800	0	0	0	0	0	0
GAVADTRDTEQTLYQVQER	LAMB2	P55268	LAMB2_HUM	Unmodified	0	1668900	284630	751760	706160	86512	506980	287740	391330
GAVAEDGDELR	APEX1; APEX1; API	P27695; A0A0C4	APEX1_HUM	Unmodified	1227900	1162800	1399400	106220	0	0	0	0	0
GAVAEDGDELRTEPEAK	APEX1; APEX1; API	P27695; A0A0C4	APEX1_HUM	Unmodified	7986800	9793200	8553900	1638200	1169100	1117300	0	0	0
GAVAEDGDELRTEPEAKK	APEX1; APEX1; API	P27695; A0A0C4	APEX1_HUM	Unmodified	0	5553100	4698800	338780	339700	229220	0	0	0
GAVDAAVPTNIAAK	ATP6V1H; ATP6V1H	Q9UI12; E5RG49;	VATH_HUM	Unmodified	4232600	3186500	3120600	119780	82791	132200	20628	0	0
GAVDALAAALAHISGASSFEPR	DDX50	Q9BQ39	DDX50_HUM	Unmodified	134270	46245	75687	0	0	0	0	0	0
GAVDGGLSIPHSTK	RPL5; RPL5; RPL5	P46777; Q5T7N0;	RL5_HUMAN	Unmodified	25259000	13237000	13799000	427480	317460	498840	0	0	0
GAVEAELDPVEYTLR	POP7; POP7	O75817; C9JYM0	POP7_HUMA	Unmodified	702540	1208000	0	0	0	0	0	0	0
GAVEAELDPVEYTLRK	POP7; POP7	O75817; C9JYM0	POP7_HUMA	Unmodified	0	568900	833980	0	0	0	0	0	0
GAVEALAAALAHISGATSVDQR	DDX21	Q9NR30	DDX21_HUM	Unmodified	498230	217910	280710	0	0	0	0	0	0
GAVEDVISRNEIQGR	NKRF	O15226	NKRF_HUM	Unmodified	800420	616470	457610	0	0	0	0	0	0
GAVEKGEELSCEER	SFN	P31947	1433S_HUM	Unmodified	1788500	1737400	1642800	0	0	0	0	0	0
GAVHDVKDVLDSVL	DCD	P81605	DCD_HUMAN	Unmodified	1091500	0	0	0	0	0	0	0	0
GAVITQIR	HDLBP; HDLBP; HD	Q00341; A0A024I	VIGLN_HUM	Unmodified	1106100	671580	460220	0	0	0	0	0	0
GAVNMPFMDFLTEDGFEKGPEELR	TST	Q16762	THTR_HUM	2 Oxidation (M)	3340300	2227400	2630200	0	0	0	0	0	0
GAVPWYTINLDLPPYKR	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1_HUM	Unmodified	2216000	1538800	337750	0	0	12216	16240	0	0
GAVQSGVDK	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3_HUM	Unmodified	0	0	374510	0	0	0	0	0	0
GAVSAEQVIAGFNR	PFDN2	Q9UHV9	PFD2_HUM	Unmodified	4682300	7305200	4326400	23877	63549	0	0	0	0
GAVVEVIQK	SH3PXD2B; SH3PXI	A1X283; A0A1B0	SPD2B_HUM	Unmodified	0	1503600	2406300	0	0	0	0	0	0
GAVWGATLNKDATK	STRAP	Q9Y3F4	STRAP_HUM	Unmodified	698290	634740	0	0	0	0	0	0	0
GAVYSFDPVGSYQR	PSMB1	P20618	PSB1_HUM	Unmodified	2757700	2810000	3266100	0	0	0	0	0	0
GAWSNVLR	SLC25A4; SLC25A6;	P12235; P12236;	ADT1_HUM	Unmodified	4646700	5429000	4715000	0	0	0	0	0	0
GAYDIFLNAK	LRPPRC	P42704	LPPRC_HUM	Unmodified	686480	839910	746540	0	0	0	0	0	0
GAYIYNALIEFIR	TARS1	P26639	SYTC_HUM	Unmodified	52035	17320	32362	0	0	0	0	0	0
GAYPLSIEPIGVR	CP; CP; CP	P00450; E9PFZ2;	CERU_HUM	Unmodified	2619900	1373400	1470300	38832	52142	51815	27732	19125	15786
GAYQDRDKPAQIR	CCT4	P50991	TCPD_HUM	Unmodified	1856400	0	0	0	0	0	0	0	0
GAYREHPYGR	KHDRBS1	Q07666	KHDR1_HUM	Unmodified	1364400	1482000	1891800	0	113080	131100	77360	0	19632
GAYREHPYGRY	KHDRBS1	Q07666	KHDR1_HUM	Unmodified	16596000	16245000	18599000	2637400	2137000	2742700	470440	498920	491890
GAYTQVIFLAR	GAA	P10253	LYAG_HUM	Unmodified	2424400	2718200	0	25382	0	18801	5870.5	0	0
GCAVVEFKMEESMKK	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM_HUM	2 Oxidation (M)	1042400	1286400	1187500	56097	50843	43255	0	0	0
GCGVVKFESPEVAER	HNRNPM; HNRNPM	P52272; A0A087	HNRPM_HUM	Unmodified	5212100	5110100	4185600	395900	369960	507580	0	54466	0
GCITIIGGGDTATCCAK	PGK1	P00558	PGK1_HUM	Unmodified	2460300	2390500	2750900	92142	0	33414	0	0	0
GCLDEETSR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUM	Unmodified	0	449090	0	0	0	260380	0	0	0
GCSFLPDPYQK	PSAP; PSAP; PSAP	P07602; Q5BJH1;	SAP_HUMAN	Unmodified	3261700	2813800	3432800	19740	45494	0	0	0	0
GDADQASNILASFGLSAR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	7622100	4597000	6692700	0	0	0	0	0	0
GDAEKPEEELEEDDDEELDETLSER	TOMM22	Q9NS69	TOM22_HUM	Unmodified	832260	1057500	1113200	0	0	0	0	0	0
GDAPSPEEKLHLITR	YARS1; YARS1; YAI	P54577; A0A6Q8	SYYC_HUMA	Acetyl (Protein N-t	3992800	3904800	3867100	142040	145590	183110	39056	0	33291
GDARPAEIDSLWEISK	NDUFV1; NDUFV1;	P49821; B4DE93;	NDUV1_HUM	Unmodified	0	0	1340900	0	0	0	0	0	0
GDATVSYEDPPTAK	EWSR1; EWSR1; EW	O01844; H7BY36	EWS_HUMAN	Unmodified	4026800	5131300	4463400	312130	330820	384160	0	0	0
GDDLSTAILK	VCP; VCP; VCP; VC	P55072; A0A7P0	TERA_HUM	Unmodified	3489500	3433100	3473800	337070	276160	310380	0	0	0
GDDQLELIK	HNRNPCL1; HNRNP	O60812; P07910;	HNRC1_HUM	Unmodified	620920	465750	399250	0	30195	25104	0	0	0
GDEELDSLIK	H2AZ2; H2AZ1; H2A	Q71UI9; P0C0S5;	H2AV_HUM	Unmodified	29947000	27426000	21586000	24352	27184	32527	0	10693	0
GDEELDSLIKATIAGGGVIPHIHK	H2AZ2; H2AZ1	Q71UI9; P0C0S5	H2AV_HUM	Unmodified	1051200	0	761160	0	0	0	0	0	0
GDEGIFEESFIEER	SNX12; SNX12	Q9UMY4; A0A08	SNX12_HUM	Unmodified	654200	921000	715090	0	0	0	0	0	0
GDEMDAMIPEREMKDFQFR	NUP214; NUP214	P35658; A0A494	NU214_HUM	Acetyl (Protein N-t	1302000	0	0	170590	151750	174590	0	0	0
GDERPHYYGK	SLC44A2; SLC44A2;	Q8IWA5; K7EMR	CTL2_HUMA	Acetyl (Protein N-t	0	513020	617310	208180	180460	145610	0	0	0
GDFCIQVGR	NME2P1; NME1; NN	O60361; P15531;	NDK8_HUM	Unmodified	10026000	8868600	9281700	693290	675220	735190	88675	107090	44223
GDFFPPERPQQLPHGLGGIGMGLGPGGQPIDANHLNK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Oxidation (M)	2054300	0	2380500	0	0	0	0	0	0
GDFFPPERPQQLPHGLGGIGMGLGPGGQPIDANHLNK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Oxidation (M);Deai	0	3885200	0	0	0	0	0	0	0
GDFIPGLR	PDHA1	P08559	ODPA_HUM	Unmodified	0	4954000	4975400	82000	43421	50528	0	0	0
GDFITGSR	AGK; AGK; AGK; A	Q53H12; A0A3B3	AGK_HUMA	Unmodified	0	442920	631710	0	0	0	0	0	0
GDFNSRMGGGSIEVSVPR	FUBP3	Q96I24	FUBP3_HUM	Oxidation (M);Deai	926110	1352800	0	62711	72239	0	0	0	0
GDFPSPIHVSGPR	AOC1; AOC1	P19801; C9J2J4	AOC1_HUM	Unmodified	903490	527460	564570	147670	135670	156480	0	0	0
GDFPTGKSSFSITR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	768630	770560	534700	56828	43255	28722	0	15989	0
GDFYTAHGEDALLAAR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	2628000	3596200	2825700	0	0	0	0	0	0
GDGPICLVLAPTR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUM	Unmodified	5719500	2420100	6536400	73039	76972	80173	0	17867	0
GDGSPSPEYTLFR	BCAM; BCAM; BCA	P50895; A0A087	BCAM_HUM	Unmodified	6120400	5965100	4956300	527540	468230	471740	0	13840	19426
GDGVTPAGTAAPAPPPLSQDVPGR	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2_HUM	Unmodified	537600	541130	482660	20707	66444	30142	0	0	0
GDGVVLVAPPLR	LSM3	P62310	LSM3_HUMA	Unmodified	12656000	12817000	11745000	143530	173280	150300	0	16855	0
GDGVVLVAPPLRVG	LSM3	P62310	LSM3_HUMA	Unmodified	27704000	28051000	22936000	593740	654680	227660	66337	127270	58875
GDIFLVR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUM	Unmodified	2409600	2726300	2718100	96294	99609	104990	14970	11956	11509
GDKGETGEQGDR	COL1A1	P02452	CO1A1_HUM	Unmodified	0	472600	379520	170690	0	0	0	0	0
GDLGAFSR	PIN1; PIN1; PIN1	Q13526; K7EN45;	PIN1_HUMA	Unmodified	7422500	8878700	7769800	439690	400970	471830	41539	65629	35455
GDLGIEIPAEK	PKM; PKLR; PKM; I	P14618; P30613;	KPYM_HUM	Unmodified	57308000	48392000	48390000	1316100	1259900	1439600	0	0	0
GDLGIEIPAEKVFLAQK	PKM; PKLR; PKM; I	P14618; P30613;	KPYM_HUM	Unmodified	64239000	63912000	78119000	0	33155	29890	100470	34794	69756
GDLGIEIPAEKVFLAQK	PKM; PKLR; PKM; I	P14618; P30613;	KPYM_HUM	Methyl (KR)	2401800	2124500	3617600	0	0	0	0	0	0
GDLGIEIPAEKVFLAQKMMIGR	PKM; PKLR; PKM; I	P14618; P30613;	KPYM_HUM	2 Oxidation (M)	649320	1581200	4699000	0	0	0	31058	0	0
GDLKGVVEALTR	PNPLA6; PNPLA6	Q8IY17; A0A384	PLPL6_HUM	Unmodified	290380	126850	246190	0	0	0	0	0	0
GDLPFVVPR	MYH9	P35579	MYH9_HUM	Unmodified	4237000	3392300	3752100	445050	446360	449490	162160	120820	0
GDLPREPLVATNLPGR	TMPO	P42166	LAP2A_HUM	Unmodified	737160	571230	541960	0	0	0	0	0	0
GDMSSRIFKPEIRVTSLR	PWP2; LOC1027241	Q15269; A0A0J9	PWP2_HUMA	Oxidation (M);3 M	520170	0	687400	0	0	0	0	0	0
GDMVTLPAGIYHR	ADI1; ADI1	Q9BV57; A0A0G	MTND_HUM	Oxidation (M)	809330	722970	561580	0	0	0	0	0	0
GDPECHLFYNEQQEAR	IGFBP2; IGFBP2	P18065; C9JMY1	IBP2_HUMA	Unmodified	1209500	993930	1205500	0	0	0	0	0	0
GDPERPEAAGLDQDER	RRM2B	Q7LG56	RIR2B_HUM	Acetyl (Protein N-t	1336900	1130200	1060800	0	0	0	0	0	0
GDPFILPSFQSESSTPSTGGFSGK	ARFGEF3	Q5T0H9	BIG3_HUMA	Unmodified	180070	189040	325080	0	0	0	0	0	0
GDPFMLQQSTNPAPGILGPPPPSF	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	Oxidation (M)	3712300	3642000	3329800	2168300	2167900	2231100	0	0	0
GDPGFEGER	COL6A1; COL6A1	P12109; A0A087	CO6A1_HUM	Unmodified	899330	555720	580390	330030	431490	470460	0	0	0
GDPSKQDILTIFKR	ARFGAP3; ARFGAP	Q9NP61; B0QYV1	ARFG3_HUM	Acetyl (Protein N-t	0	0	2381800	172770	182640	152980	0	0	0
GDPTGAGPEASLEPGADSVSMQAFSR	RBM10	P98175	RBM10_HUM	Oxidation (M)	1513300	0	1176800	66421	0	0	0	0	0
GDQENVHPDVMLVQPR	KPNB1; KPNB1	Q14974; J3KTM9	IMB1_HUMA	Oxidation (M)	6762400	4929900	5097200	0	0	0	0	0	0
GDREQLLQR	YWHAH; YWHAH; Y	Q04917; F8WEB6	1433F_HUMA	Acetyl (Protein N-t	28912000	25978000	29013000	6059200	6191400	5711500	1358600	1245300	1334500
GDRGDAGPK	COL1A1	P02452	CO1A1_HUM	Unmodified	0	549240	832400	327070	218150	0	0	0	0
GDRGDAGPKGADGSPGKDGVR	COL1A1	P02452	CO1A1_HUM	Unmodified	987070	279770	265690	492700	274970	564390	115450	123610	44831
GDRSEDFGVNEDLADSDAR	ANXA1	P04083	ANXA1_HUM	Unmodified	1589700	1198600	1673400	315160	363050	350940	0	0	0
GDRSEDFGVNEDLADSDAR	ANXA1	P04083	ANXA1_HUM	Deamidation (N)	365500	228900	432930	103300	76585	61588	0	0	0
GDSEPLSEAAQAHTR	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B_HUM	Unmodified	0	888840	694540	0	0	0	0	0	0

GDSVIVVLR	SNRPD2; SNRPD2	P62316; K7EJB5	SMD2_HUMA	Unmodified	2051700	1626600	1741700	66396	109540	68705	36445	19111	13537
GDSVIVVLRNPLIAGK	SNRPD2; SNRPD2	P62316; K7EJB5	SMD2_HUMA	Unmodified	4391600	2949500	3327300	22312	16500	0	48582	0	0
GDTNIKPILQVNIRPITTGNSPPR	RPA1; RPA1; RPA1	P27694; I3L524; I	RFA1_HUMA	Deamidation (N)	6921800	4930900	5750800	0	0	0	0	0	0
GDTVATLSER	GART	P22102	PUR2_HUMA	Unmodified	1964800	1919700	1913500	0	0	0	0	0	0
GDVAEGDLIEHFSQFGTVEK	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	7982800	6371600	6751600	0	0	0	0	0	0
GDVEAFAK	ADRM1; ADRM1	Q16186; A0A087	ADRM1_HUM	Unmodified	444190	270070	399240	0	0	0	0	0	0
GDVEEDETIPDSEQDIRPR	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1_HUM	Unmodified	1813300	1632200	1989700	0	0	0	0	0	0
GDVENIEVVQK	LRPPRC	P42704	LPPRC_HUM	Unmodified	999060	651780	924090	0	0	0	0	0	0
GDVGLPGKPGSMDKVDMGSMKGQK	COL4A1	P02462	CO4A1_HUM	Oxidation (M);3 M	0	0	0	0	3564600	0	8765800	2210400	2734000
GDVGSADIQDLEKWLAK	SRPRB; SRPRB	Q9Y5M8; H7C4H	SRPRB_HUM	Unmodified	341070	346370	306660	0	0	0	0	0	0
GDVKNFLYAWCGKR	DHX9	Q08211	DHX9_HUMA	Acetyl (Protein N-t	0	822890	853610	14218	0	0	0	0	0
GDVLAAWSGIRPLVTDPK	GPD2	P43304	GPDM_HUM	Unmodified	1168100	1019500	1051500	0	0	0	0	0	0
GDVTAEEAAGASPAK	MARCKSL1	P49006	MRP_HUMA	Unmodified	12972000	10677000	10566000	796930	865200	866900	0	0	0
GDVTAEEAAGASPAKANGQENGHVK	MARCKSL1	P49006	MRP_HUMA	2 Deamidation (N)	1638100	1545900	0	0	0	0	0	0	0
GDVTAQIALQPALK	SOD2; SOD2; SOD2;	P04179; F5GYZ5;	SODM_HUM	Unmodified	639270	895260	630610	295490	0	184720	0	0	0
GDVVPKDVNAAIATIK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	5165700	4588900	4618900	34759	0	0	0	0	0
GDVVPKDVNAAIATIK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	10755000	11492000	14064000	111560	41258	21120	0	0	0
GDYAPILQK	DPP3; DPP3; DPP3; I	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	877150	1031800	1251800	0	0	0	0	0	0
GDYAPILQKVVEQLEKAK	DPP3; DPP3; DPP3; I	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	635860	353410	537310	0	0	0	0	0	0
GDYDAFFEAR	SH3BGRL	O75368	SH3L1_HUM	Unmodified	2584800	2633000	3053100	34489	35979	45033	0	0	0
GDYPLEAVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Unmodified	27863000	25400000	22655000	0	828780	841630	0	0	0
GEAAAERPGEAAVASSPSK	MARCKS	P29966	MARCS_HUM	Unmodified	3058700	3482800	3525000	52151	0	38825	0	0	0
GEAEAFAIGAR	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1_HUM	Unmodified	0	0	0	0	106900	152510	0	0	0
GEAGAAGPAGPAGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	7763400	6245600	8846300	5358400	5517400	6349900	2065100	2230500	2031000
GEAGPQGPR	COL1A1	P02452	CO1A1_HUM	Unmodified	15685000	23681000	19098000	24325000	31271000	24523000	2164000	2192500	2123400
GEAGVPAEFSIWTR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	2260300	2062700	1755100	73915	75517	61060	0	0	0
GEALSALDSK	SEC22B	O75396	SC22B_HUM	Unmodified	1901900	1877000	1806500	37623	71939	30979	0	0	0
GEAPFAQR	COA3; COA3	Q9Y2R0; K7EPV(	COA3_HUMA	Unmodified	1064400	0	0	0	44564	65594	0	0	0
GEATVSFDDPPSAK	TAF15; FUS; TAF15;	Q92804; P35637;	RBP56_HUM	Unmodified	28239000	20142000	24933000	1250300	1180200	1179100	0	0	0
GEAVLRPGLDAEPELSPEEQR	C7orf50; C7orf50; C7	Q9BRJ6; C9JQV0	CG050_HUM	Unmodified	1518700	1159200	1276600	23506	0	0	0	0	0
GEDEEENNLEVR	RPN1; RPN1	P04843; F8WF32	RPN1_HUMA	Deamidation (N)	550810	697780	554570	0	0	0	0	0	0
GEDSAEETEAKPAVVAPAPVVEAVSTPSAAFPSDATAEQGPILTK	ILF3	Q12906	ILF3_HUMAN	Unmodified	2589100	2009500	2251000	0	0	0	0	0	0
GEDSVPDTVHHVVVPVNPK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Unmodified	1540700	1295800	1007700	0	63630	0	0	0	0
GEEGHDPKEPEQLR	HNRNPA3; HNRNPA	P51991; A0A7I2V	ROA3_HUMA	Unmodified	10471000	10802000	9871700	478200	0	1123600	0	0	0
GEEILSGAQR	DARS1; DARS1	P14868; H7BZ35	SYDC_HUMA	Unmodified	7339100	3026200	5541400	867240	605030	861970	0	505200	0
GEEIVQQLIENSTTFR	TRMT6	Q9UJA5	TRM6_HUMA	Unmodified	69061	60636	128090	0	0	0	0	0	0
GEELGGGQDPVQLLSGFPR	UBXN1; UBXN1; UB	Q04323; E9PJ81;	UBXN1_HUM	Unmodified	1006500	2012800	2119700	0	0	0	0	0	0
GEELLSPLNLEQAAYAR	MYO1C; MYO1C	O00159; F5H6E2	MYO1C_HUM	Unmodified	901000	567080	685840	0	0	0	0	0	0
GEENLMDAQVK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Oxidation (M)	0	1308000	0	0	0	0	0	0	0
GEEVDVAR	DDAH1	O94760	DDAH1_HUM	Unmodified	4439600	2475700	0	149670	252020	75290	0	0	0
GEEVGELSR	CNP	P09543	CN37_HUMA	Unmodified	816590	0	524860	0	0	0	0	0	0
GEFDPGQDTYQHPPK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	1589500	2401600	0	0	74637	0	0	0	0
GEFSASPMLK	SRRM2	Q9UQ35	SRRM2_HUM	Oxidation (M)	1236700	754010	1134300	56085	0	0	0	0	0
GEFVTTVQQR	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC_HUM	Unmodified	1182200	1160000	1353600	0	0	0	0	0	0
GEGERPAQNEKRK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
GEGGILINSQGER	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
GEGGILINSQGERFMER	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUMA	Oxidation (M);Deai	646930	492690	752820	0	0	0	0	0	0
GEGPDVDVNLPK	AHNAK	Q09666	AHNK_HUM	Unmodified	965340	0	681000	242540	226270	210890	0	0	0
GEGPEFDVNLSK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	76370	52257	55583	0	0	0
GEGPEVDVNLPK	AHNAK	Q09666	AHNK_HUM	Unmodified	1667900	0	0	291350	303770	373390	0	0	0
GEGPEVDVTLPK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	65109	72238	70535	0	0	0
GEGQEPAFSFLATLASSSSEEMESQLQER	RNF20; RNF20	Q5VTR2; C9JXC9	BRE1A_HUM	Oxidation (M)	0	0	485270	0	0	0	0	0	0
GEGQLGPAER	EEF2	P13639	EF2_HUMAN	Unmodified	30098000	27139000	34150000	1000500	986440	1153300	86973	0	86509
GEHPGLSIGDVAK	HMGB1P1; HMGB1;	B2RPK0; P09429;	HGB1A_HUM	Unmodified	24204000	25811000	29457000	456320	501830	414200	18107	26017	15756
GEHPGLSIGDVAKK	HMGB1P1; HMGB1;	B2RPK0; P09429;	HGB1A_HUM	Unmodified	1031500	1737100	2842800	0	0	38580	0	0	0
GEHSIVYLKPSYAFGSVGK	FKBP4	Q02790	FKBP4_HUM	Unmodified	1127900	1261000	1179000	0	0	0	0	0	0
GEIAGPPDTPYEGGR	UBE2K; UBE2K	P61086; D6RDM7	UBE2K_HUM	Unmodified	2006100	1451000	1808500	44610	59824	0	0	0	0
GEIEQRPTPGSR	FARP1; FARP1; FAR	Q9Y4F1; A0A1B0	FARP1_HUM	Acetyl (Protein N-t	1995200	2544500	2304700	2199500	2248700	390580	0	0	0
GEIGAVGNAGPAGPAGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Deamidation (N)	645520	680510	613280	1015800	787290	945870	554110	648820	519170
GEIGAVGNAGPAGPAGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	0	366720	0	555550	597250	572640	410820	408420	507430
GEIPEVAFMK	NXF1; NXF1	Q9UBU9; H0YDU	NXF1_HUMA	Oxidation (M)	2183500	1534100	1410100	56513	66308	76159	0	0	0
GELLEAIKR	SOD2; SOD2; SOD2;	P04179; G8JLJ2; I	SODM_HUM	Unmodified	734030	767690	898430	0	0	0	0	0	0
GELVGGLDIVK	GLRX3	O76003	GLRX3_HUM	Unmodified	3824700	3335600	3486200	0	0	17914	0	0	0
GEMMDLQHGSLFLQTPK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB_HUMA	2 Oxidation (M)	2736900	3881700	3663600	0	0	0	41032	0	0
GEMMDLQHGSLFLR	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA_HUMA	2 Oxidation (M)	8646200	9408500	8358400	145710	139140	149770	72273	98985	81760
GENLEHLR	VAMP8; VAMP8; V/	Q9BV40; B8ZZT4	VAMP8_HUM	Unmodified	580550	0	0	0	97878	97230	0	0	0
GENLVHQIQYR	CD163; CD163; CD1	Q86VB7; C9JHR8	C163A_HUM	Unmodified	367180	270640	388220	0	77823	86168	0	0	0
GENLVSMTVEGPPPKDTGIAR	SNRPB; SNRPN; SNI	P14678; P63162; ;	RSMB_HUM	Oxidation (M)	5237600	3238000	4329800	79909	0	0	0	0	0
GEPAAAAAPEAGASPVEK	MARCKS	P29966	MARCS_HUM	Unmodified	3023200	2186400	2689000	0	104660	52906	0	0	0
GEPEKLGQALTEVYAK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Unmodified	829780	604670	599060	0	16237	0	0	0	0
GEPETFLPLDYLEVKPTDEK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	5336800	3035000	5128400	0	0	0	0	0	0
GEPETFLPLDYLEVKPTDEKLR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	2414000	2246200	2505000	0	0	0	0	0	0
GEPLQVER	TACSTD2	P09758	TACD2_HUM	Unmodified	0	0	0	0	243450	326130	0	0	0
GEPPLPEEDLSKLFKPPQPPAR	EIF3H; EIF3H; EIF3H	O15372; B3KS98;	EIF3H_HUM	Unmodified	0	2647300	5704000	0	0	0	0	0	0
GEPWTFLVR	PTPN6; PTPN6; PTP	P29350; F5GY79;	PTN6_HUMA	Unmodified	27327000	27195000	25084000	0	0	0	0	0	0
GEQGFMGNTGPTGAVGDRGPK	COL4A2	P08572	CO4A2_HUM	Oxidation (M)	607320	621940	540100	154010	217350	118880	18168	100020	120420
GEQGFMGNTGPTGAVGDRGPK	COL4A2	P08572	CO4A2_HUM	Oxidation (M);Deai	374540	458510	370380	160780	114870	235910	82243	105040	118380
GESDDFHMDFDSAVAPR	TOP2A	P11388	TOP2A_HUM	Oxidation (M)	0	353820	710170	0	0	0	0	0	0
GESFYQDR	RARS1	P54136	SYRC_HUMA	Unmodified	1418400	1188100	1458700	23746	34098	27211	0	0	0
GESGPSGPAGPTGAR	COL1A1	P02452	CO1A1_HUM	Unmodified	15728000	20143000	16720000	18752000	17726000	24971000	4606200	4914800	4384200
GESGQSWPR	PTGES3; PTGES3; P	Q15185; A0A087	TEBP_HUMA	Unmodified	1526000	1668000	1539600	38627	0	76096	0	0	0
GESLFHSK	EPCAM; EPCAM	P16422; B5MCA4	EPCAM_HUM	Unmodified	2238700	1734600	1859900	277110	289060	0	8738.3	0	0
GESLFQGR	TACSTD2	P09758	TACD2_HUM	Unmodified	0	0	0	122460	128710	147100	0	0	0
GESLSLPGPSPPPDGTEQVIISR	NIBAN1	Q9BZQ8	NIBA1_HUM	Unmodified	3836100	2980900	3804900	49492	41171	25219	22181	12608	0
GESPVDYDGGR	PDIA6	Q15084	PDIA6_HUM	Unmodified	11662000	13170000	7916800	358330	300820	384170	0	0	0
GESPVDYDGGRTR	PDIA6	Q15084	PDIA6_HUM	Unmodified	748570	785690	718470	0	0	0	0	0	0
GESQTDIEITR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Unmodified	1227500	894990	915760	0	86438	0	0	0	0
GETAVPGAPEALR	PGP	A6NDG6	PGP_HUMAN	Unmodified	1307500	1137400	1309700	0	0	0	0	0	0
GETDLIQK	LRPPRC	P42704	LPPRC_HUM	Unmodified	580530	594090	678500	0	12683	0	0	0	0
GETGEQGDR	COL1A1	P02452	CO1A1_HUM	Unmodified	92329	298430	226380	90423	2839300	0	0	0	0
GETGPSGPVGPAGAVGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	33286000	26994000	27872000	16374000	19420000	20372000	12387000	14008000	15327000
GETPRVEEVGPYTYR	SCARB2; SCARB2; S	Q14108; A0A1W2	SCRB2_HUM	Unmodified	1865500	0	1563200	0	279420	187270	0	0	0
GEVAAVEPAMWYPTGIFRR	N/A	N/A	N/A	Unmodified	3178800	0	1585800	0	0	0	0	0	0
GEVLGDVLQLETLK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	2470300	1422400	2211500	0	0	0	0	0	0
GEVYPGIVGMANKGDCLQKGESVK	CSDE1; CSDE1	O75534; E9PLT0	CSDE1_HUM	Methyl (KR)	889910	0	935360	0	0	0	25565	18195	0
GEYNVYSTFQSHEPEFDYLK	PPP2R2A; PPP2R2D	P63151; Q66LE6;	2ABA_HUMA	Unmodified	1304100	1107200	1036000	0	0	0	0	0	0
GFAFVEFSHLQDATR	RBM10	P98175	RBM10_HUM	Unmodified	1830200	1446700	1312200	0	0	0	0	0	0
GFAFVEYESHR	RBM46; RBM47; A1	Q8TBY0; A0AV9	RBM46_HUM	Unmodified	0	454420	736950	115860	113870	109870	0	0	0
GFAFVQYDKEKNAR	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
GFAFVQYVNER	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Unmodified	4244300	4532100	4747800	78585	11919	0	0	0	0
GFAFVQYVNER	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Deamidation (N)	976140	2172300	2547800	17433	9328.2	0	0	0	0
GFAFVQYVNERNAR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Deamidation (N)	2080000	2468500	1173000	84032	26770	0	0	0	0
GFAFVQYVNERNAR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	2 Deamidation (N)	9351000	7770400	8034400	0	76451	54392	0	0	9436.3
GFAFVTFDDHDSVDK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	11466000	11020000	10591000	75000	0	39892	47169	0	34120
GFAFVTFDDHDSVDKIVIQK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	15553000	4446700	15369000	12275	0	0	0	0	0
GFAFVTFDDHDTVDK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	23147000	18594000	20658000	56332	38337	57850	0	16072	0
GFAFVTFDDHDTVDKIVVQK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	20433000	17524000	30762000	28204	0	31256	0	0	0
GFAFVTFESPADAK	RBMXL3; RBMXL2;	Q8N7X1; O75526	RMXL3_HUM	Unmodified	24596000	26534000	25827000	778180	612240	634500	0	0	0
GFAFVTFESPADAKDAAR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	26611000	28976000	27551000	492370	471070	95761	43796	53466	0
GFAFVTFESPADAKDAARDMNGK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Oxidation (M);Deai	12172000	11372000	11618000	56973	116500	87171	0	0	0
GFAFVTFESPADAKDAARDMNGKSLDGK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Oxidation (M);Deai	6967700	4889500	6366400	66807	21805	0	0	0	0
GFAFVYFENVDDAKEAK	TRA2B; TRA2B	P62995; H7BXF3	TRA2B_HUM	Unmodified	2507600	5477500	2109100	0	0	0	0	0	0
GFAFVYFENVDDAKEAKER	TRA2B; TRA2B	P62995; H7BXF3	TRA2B_HUM	Unmodified	0	3238200	1634800	0	0	0	0	0	0
GFAFVYFER	TRA2A	Q13595	TRA2A_HUM	Unmodified	1059800	1266400	1790900	0	0	0	0	0	0
GFAHKIRGFTWMER	N/A	N/A	N/A	Oxidation (M);2 M	0	284880	0	0	0	0	0	0	0
GFALLRMPKMPELRGK	DDX55; DDX55	Q8NHQ9; F5H5U7	DDX55_HUM	3 Methyl (KR)	293540	330260	0	0	0	0	0	0	0
GFALVGVGSEASSK	CPSF6; CPSF6	Q16630; F8WJN3	CPSF6_HUM	Unmodified	3295200	2614400	3707600	66614	79529	88237	0	0	0
GFAYIEFSDKESVR	PABPN1; PABPN1; I	Q86U42; B4DEH8	PABP2_HUM	Unmodified	0	2818200	3040900	73769	70920	101410	56279	44829	40911
GFCFITFKEEEPVK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Unmodified	733190	698280	579520	0	0	0	0	0	0
GFCFITFKEEEPVKK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Unmodified	0	2121300	1652600	43745	68085	40820	0	0	0
GFCFITYDEEPVKK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	2455400	0	2440400	41528	44050	0	0	0	0
GFCFLEYEDHK	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR_HUM	Unmodified	2981800	2739300	3489000	0	0	0	0	0	0
GFCLPPHCSR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Unmodified	905240	1294600	1234100	0	0	14618	0	0	0
GFDEYMK	FABP5	Q01469	FABP5_HUM	Oxidation (M)	5216400	5018900	6019800	0	0	0	0	0	0
GFDEYMKELGVGIALR	FABP5	Q01469	FABP5_HUM	Oxidation (M)	12279000	8907500	7190700	14400	0	0	0	0	0
GFDEYMKELGVGIALRK	FABP5	Q01469	FABP5_HUM	Oxidation (M)	15224000	15315000	16553000	15321	9128.2	0	0	0	0
GFDILGIKPVQR	RARS1	P54136	SYRC_HUMA	Unmodified	1050300	904690	1131400	0	14376	0	0	0	0
GFDWPLLVK	GUSB	P08236	BGLR_HUMA	Unmodified	342630	278460	314320	0	0	0	0	0	0
GFEEQWYR	GUSB; GUSB; GUSB	P08236; F8WBK6	BGLR_HUMA	Unmodified	924530	869100	938140	0	0	0	0	0	0
GFELTFK	DDOST; DDOST; DD	P39656; U3KQ84;	OST48_HUM	Unmodified	3080500	3638900	3073800	0	20825	9344.4	0	0	0
GFESKVDAILNR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	1212500	2001400	0	0	0	0	0	0	0
GFEVVYMTEPIDEYCVQQLK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Oxidation (M)	0	3125600	0	0	0	0	0	0	0

GFFDPNTEENLTYLQLK	DSP	P15924	DESP_HUMA	Unmodified	2499200	1203500	3016100	0	0	0	0	0	0
GFFDPNTHENLTYR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	0	2034800	0	81105	0	0	0	0	0
GFFEGTIASK	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUMA	Unmodified	4365600	3741700	3693400	247000	257500	287000	50442	54458	54490
GFFGFPGPR	HAX1; HAX1	O00165; Q5VYD6	HAX1_HUMA	Unmodified	1849200	2112200	2365700	42375	0	0	0	0	0
GFFIKPTVFGGVQDDMR	ALDH1B1	P30837	AL1B1_HUM	Oxidation (M)	851960	1051000	1131400	0	0	0	0	0	0
GFFLVQTK	RP2	O75695	XRP2_HUMA	Unmodified	569760	429870	501930	0	0	0	0	0	0
GFGDGYNGYGGGPGGGNFGGSPGYGGGR	HNRNPA2B1; HNRN	P22626; A0A024R	ROA2_HUMA	Deamidation (N)	17353000	20911000	17106000	695900	701250	288490	29779	54145	0
GFGDGYNGYGGGPGGGNFGGSPGYGGGR	HNRNPA2B1; HNRN	P22626; A0A024R	ROA2_HUMA	2 Deamidation (N)	16599000	10903000	11033000	370600	340600	373710	39233	79604	41957
GFGDSFGR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2_HUM	Unmodified	2515500	3279300	2314800	101970	118410	96655	0	19913	0
GFGDVGEAK	UBAP2L; UBAP2L	Q14157; F8W726	UBP2L_HUM	Unmodified	8447300	6981900	7064300	384920	395300	452140	0	0	0
GFGFGGFAISAGK	DDX42; DDX42; DD	Q86XP3; J3QRI2;	DDX42_HUM	Unmodified	828710	660290	689370	14444	0	12676	0	0	0
GFGFGLVK	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2_HUM	Unmodified	2525400	1750000	2107700	11957	11237	13685	0	0	0
GFGFGQGAGALVHSE	CSRP1; CSRP1	P21291; E9PP21	CSRP1_HUM	Unmodified	32926000	32674000	31056000	2737900	2648400	1820200	8828800	7819900	7564200
GFGFIKLESR	SFPQ	P23246	SFPQ_HUMA	Unmodified	1296000	0	1037800	0	33052	0	0	0	0
GFGFILFK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Unmodified	39584000	38164000	5015900	6675.3	0	0	10820	0	0
GFGFILFKDAASVEK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Unmodified	13468000	10677000	10290000	0	0	0	0	0	0
GFGFILFKDAASVEK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Methyl (KR)	1861700	1667500	2118600	0	0	0	0	0	0
GFGFITFEDEQSVDQAVNMHFHDIMGK	DAZAP1; DAZAP1; I	Q96EP5; K7EK33	DAZP1_HUM	2 Oxidation (M);De	0	890030	1413100	0	0	0	0	0	0
GFGFITFTNPEHASVAMR	RBM3	P98179	RBM3_HUM/	Oxidation (M)	47656000	28027000	45259000	428100	386550	352140	188360	0	0
GFGFITFTNPEHASVAMRAMNGESLDGR	RBM3	P98179	RBM3_HUM/	2 Oxidation (M);De	2296600	299470	818670	0	0	0	0	0	0
GFGFVCFSSPEEATK	PABPC4; PABPC1; F	Q13310; P11940;	PABP4_HUM	Unmodified	1261600	1376000	1167100	31371	0	30808	0	0	0
GFGFVDFNSEEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Unmodified	9458600	9372300	7404300	153220	123690	85345	48873	49476	37568
GFGFVDFNSEEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Deamidation (N)	12892000	11609000	13318000	410420	204390	290410	0	18880	24697
GFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Deamidation (N)	33789000	37636000	35883000	491290	409990	201500	57867	60826	0
GFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Methyl (KR);Deam	0	0	0	0	0	0	0	0	0
GFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Unmodified	5957200	5462800	6001000	115940	77329	0	0	0	0
GFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Methyl (KR)	0	1176600	784540	0	0	0	28185	0	0
GFGFVEFEDPR	SRSF5; SRSF5; SRSF	Q13243; B4DJK0;	SRSF5_HUM	Unmodified	1660700	1586000	0	0	0	0	0	0	0
GFGFVLFK	HNRNPDL; HNRNPI	O14979; Q14103;	HNRDL_HUM	Unmodified	39842000	34920000	34008000	0	183520	0	18327	32887	0
GFGFVSFER	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Unmodified	10324000	10156000	11423000	163090	171510	56926	0	10380	8277.9
GFGFVSFERHEDAQK	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Unmodified	3822800	3769100	3696600	58612	61841	166800	0	0	0
GFGFVTFADPASVDK	MSI2; MSI2; MSI2;	Q96DH6; A0A6Q8	MSI2H_HUM	Unmodified	1380100	1385100	1630400	16361	21208	19036	0	0	0
GFGFVTFADPASVDKVLGQPHHELDSK	MSI2; MSI2; MSI2;	Q96DH6; A0A6Q8	MSI2H_HUM	Unmodified	1361700	0	1445200	0	0	0	0	0	0
GFGFVTFDDHDPVDK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	63239000	57252000	64317000	290280	22639	306100	0	51409	0
GFGFVTFDDHDPVDKIVLQK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	346000000	347180000	326760000	137320	46127	74094	37807	48622	27553
GFGFVTFDDHDPVDKIVLQK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Methyl (KR)	14583000	24794000	14617000	0	0	0	0	0	0
GFGFVTFENIDDAKDAMMAMNGK	CIRBP; CIRBP; CIRE	Q14011; K7ELT6;	CIRBP_HUM	3 Oxidation (M);De	0	4402600	4347300	27474	0	0	0	0	0
GFGFVTFENIDDAKDAMMAMNGKSVDGR	CIRBP; CIRBP; CIRE	Q14011; K7ENX8	CIRBP_HUM	3 Oxidation (M);De	8703300	8915000	9317200	58605	33147	0	32582	0	26957
GFGFVTFSSMAEVDAAMAAR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Oxidation (M)	1075500	2741300	3604500	0	0	0	0	0	0
GFGFVTFSSMAEVDAAMAARPHSIDGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Oxidation (M)	31804000	23562000	28838000	27434	22046	35729	0	16688	0
GFGFVTFSSMAEVDAAMAARPHSIDGRVVEPK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Oxidation (M)	7678800	7005700	4354200	0	0	0	0	0	0
GFGFVTYATVEEVDAAMNAR	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1_HUMA	Oxidation (M)	1686600	1237700	0	0	0	0	0	0	0
GFGFVTYATVEEVDAAMNARPHK	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1_HUMA	Oxidation (M);Deai	8011500	6706100	7772800	0	0	0	0	0	0
GFGFVTYATVEEVDAAMNARPHK	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1_HUMA	Oxidation (M)	11799000	9719200	8188800	0	0	0	0	0	0
GFGFVTYATVEEVDAAMNARPHKVDGR	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1_HUMA	Oxidation (M);Deai	21400000	10726000	15296000	0	0	0	0	0	0
GFGFVTYATVEEVDAAMNARPHKVDGR	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1_HUMA	Oxidation (M)	8383900	2240000	5865500	0	0	0	0	0	0
GFGFVTYSCVEEVDAAMCARPHK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Oxidation (M)	0	2082000	1801700	0	0	0	0	0	0
GFGFVYFQNHDAADK	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	549250	528000	657440	0	19479	0	0	0	0
GFGFVYFQNHDAADK	HNRNPA0	Q13151	ROA0_HUMA	Deamidation (N)	0	504960	871820	0	0	18513	0	0	0
GFGFVYFQNHDAADKAAVVK	HNRNPA0	Q13151	ROA0_HUMA	Deamidation (N)	722320	5692600	830330	0	0	0	0	0	0
GFGFVYFQNHDAADKAAVVK	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	1076400	591340	809450	0	0	0	0	0	0
GFGGAMTDAAALNILALSPPAQNLLLK	GBA; GBA; GBA	P04062; A0A0G2J	GLCM_HUM/	Oxidation (M)	343600	0	0	0	0	0	0	0	0
GFGGIGGILR	ETF1; ETF1	P62495; B7Z7P8	ERF1_HUMA	Unmodified	2166000	2711000	2736500	65413	73861	74105	0	22597	0
GFGGITHGPPEKK	ACADVL	P49748	ACADV_HUM	Unmodified	1765300	933910	1872000	37845	29502	0	0	0	0
GFGGIYGVGK	NPEPL1; NPEPL1	Q8NDH3; H0YEP	PEPL1_HUM	Unmodified	936510	710950	864720	93320	58871	0	0	0	0
GFGHIGIAVPDVYSACK	GLO1	Q04760	LGUL_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
GFGSEEGSR	RBM8A	Q9Y5S9	RBM8A_HUM	Unmodified	10625000	10484000	15159000	829920	770830	1010100	0	0	32982
GFGTDEQAIVDVVANR	ANXA7	P20073	ANXA7_HUM	Unmodified	3130600	3163500	3662100	0	0	0	0	0	0
GFGYGQGAGALVHAQ	CSRP2; CSRP2	Q16527; F8VW96	CSRP2_HUM	Unmodified	4148600	939200	2967500	762650	585450	677600	38227	195800	0
GFIAGIDLK	DDX23	Q9BUQ8	DDX23_HUM	Unmodified	438580	601730	339080	42638	39827	28493	0	0	0
GFIMAEVMK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	2 Oxidation (M)	781720	664130	864640	0	0	0	0	0	0
GFIMAEVMKYEDFKEEGSENAVK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	2 Oxidation (M);De	501200	852530	725730	0	0	0	0	0	0
GFIPNIR	FBN2; FBN1; FBN2;	P35556; P35555;	FBN2_HUMA	Unmodified	0	666900	781000	782840	857590	823680	1585300	1450200	0
GFKDQIYDIFQK	EIF4A1; EIF4A1; EIF	P60842; J3KTN0;	IF4A1_HUMA	Unmodified	1894400	1595200	1460400	0	0	0	0	0	0
GFKEQIYDVYR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUMA	Unmodified	1894300	1523400	1735600	0	0	0	0	0	0
GFKFDETEQALANER	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Unmodified	2321100	1834500	2851900	0	0	0	0	0	0
GFLEKESAIVSRPLNPFTAK	NOSIP; NOSIP; NOSI	Q9Y314; A0A075	NOSIP_HUM	Unmodified	1088100	652140	832780	0	0	0	0	0	0
GFLIDGYPR	AK5; AK1; AK1; AK	Q9Y6K8; P00568;	KAD5_HUMA	Unmodified	6461700	4996200	6056900	58072	48608	62566	11088	14499	0
GFLWDEGFHQLVVQR	MOGS; MOGS; MOG	Q13724; A0A3B3	MOGS_HUM	Unmodified	1086300	702550	1849600	0	0	0	0	0	0
GFMVQTGDPTGTGR	PPIL3; PPIL3; PPIL3	Q9H2H8; C9K058	PPIL3_HUMA	Oxidation (M)	1525200	1413400	1430700	29609	33838	53444	0	0	0
GFNLPYQDAR	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1_HUM	Unmodified	2154300	2125200	1690500	131140	128860	139760	30175	32995	17019
GFPGYMYTDLATIYER	ATP6V1B2; ATP6V1	P21281; P15313;	VATB2_HUM	Oxidation (M)	3519000	2257100	2228000	0	0	0	0	0	0
GFPLGLSAK	SLAIN2	Q9P270	SLAI2_HUMA	Unmodified	947090	877060	1001900	125860	145300	156380	26802	0	0
GFPTIYFSPANK	PDIA3	P30101	PDIA3_HUM/	Unmodified	23598000	20888000	21044000	445600	504550	532270	46693	62126	61851
GFPTIYFSPANK	PDIA3	P30101	PDIA3_HUM/	Deamidation (N)	3056600	4129600	4507800	69582	56588	70517	0	0	0
GFPTIYFSPANKK	PDIA3	P30101	PDIA3_HUM/	Unmodified	5054300	3923000	4040100	123400	95228	94039	0	0	11467
GFPTIYFSPANKK	PDIA3	P30101	PDIA3_HUM/	Methyl (KR)	7539900	4906000	4381500	186060	0	0	0	0	0
GFPTIYFSPANKK	PDIA3	P30101	PDIA3_HUM/	Deamidation (N)	5726100	8154900	5376000	72818	0	0	0	0	0
GFPTIYFSPANKK	PDIA3	P30101	PDIA3_HUM/	Methyl (KR);Deam	2823300	2033500	1538300	0	0	0	0	0	0
GFPTIYFSPANKKLNPK	PDIA3	P30101	PDIA3_HUM/	Deamidation (N)	5834000	9128300	7636100	0	0	43444	0	0	0
GFQIYDGPIHLTR	CEMIP2	Q9UHN6	CEIP2_HUM	Unmodified	1339400	1461600	778290	0	0	0	0	0	0
GFQMLADPR	COMMD3; COMMD	Q9UBI1; R4GMW	COMD3_HUM	Oxidation (M)	557640	548370	890640	0	0	0	0	0	0
GFSAEQIAR	MAGT1; MAGT1	Q9H0U3; A0A087	MAGT1_HUM	Unmodified	4115100	2899200	3391000	140220	146530	72817	0	0	0
GFSDKLDFLEGDQKPLAQR	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2_HUMA	Unmodified	1482200	1868500	1535400	0	0	0	0	0	0
GFSDSGGGPPAK	PNN; PNN; PNN	Q9H307; G3V5F0	PININ_HUMA	Unmodified	0	937880	785050	28491	134000	0	0	0	0
GFSEEQLR	TAGLN3; TAGLN3	Q9UI15; C9J5W6	TAGL3_HUM	Unmodified	3151900	2970200	3063200	0	0	0	0	0	0
GFSEGLWEIENNPTVK	HDGF	P51858	HDGF_HUMA	Unmodified	6564500	6892900	14737000	26680	37241	0	0	0	0
GFSELSTLEVLPQVYNVR	TRMT61A; TRMT61	Q96FX7; H0Y2Q1	TRM61_HUM	Unmodified	3106100	1510200	3674000	0	0	0	0	0	0
GFSFVATGLMEDDGKPR	RPS6KA1; RPS6KA1	Q15418; Q5SVM6	KS6A1_HUM	Oxidation (M)	0	1754100	885930	0	15890	0	0	0	0
GFSGLDGAK	COL1A1	P02452	CO1A1_HUM	Unmodified	22720000	22454000	10244000	11983000	10964000	10553000	3304100	3155000	2210300
GFSGLDGAKGDAGPAGPK	COL1A1	P02452	CO1A1_HUM	Unmodified	4305100	5015700	4601300	1689900	1835100	1849700	2106600	1824100	807580
GFSGLDGAKGDAGPAGPK	COL1A1	P02452	CO1A1_HUM	Methyl (KR)	293220	341960	918780	131790	326060	217380	429780	420750	504690
GFSLADIPYQEIAGEHLR	GPC6	Q9Y625	GPC6_HUMA	Unmodified	1273000	756950	0	0	0	0	0	0	0
GFSLEELR	RPL13; RPL13	P26373; J3QSB4	RL13_HUMA	Unmodified	13496000	13825000	14764000	208000	229510	242670	0	19970	0
GFSLLATEDKEALK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	Unmodified	1811000	2463200	2034200	31629	0	12485	0	6645.6	0
GFSLLATEDKEALKK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	Unmodified	8964300	9889200	9445900	113810	109590	80351	0	0	0
GFSLLATEDKEALKK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	Methyl (KR)	1526700	474960	481980	0	0	0	0	0	0
GFSLSDVPQAEISGEHLR	GPC1	P35052	GPC1_HUMA	Unmodified	5018100	5553900	7064800	0	0	0	0	0	0
GFSVVADTPELQR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	12895000	11058000	10441000	1070800	903320	995810	130100	38788	17319
GFTGIDSEYEKPEAPELVLK	PAPSS1	O43252	PAPS1_HUM	Unmodified	2661000	2158400	2123600	30140	0	0	0	0	0
GFTIPEAFR	CLIC1	O00299	CLIC1_HUM	Unmodified	9483600	6757700	7839100	150310	143250	144640	22340	20860	0
GFTLNDAANSR	LRPPRC	P42704	LPPRC_HUM	Unmodified	860310	850850	0	153320	0	0	0	41991	70059
GFTLNDAANSR	LRPPRC	P42704	LPPRC_HUM	Deamidation (N)	624050	1077700	1406300	0	0	0	0	0	0
GFTLNDAANSRLIITQVR	LRPPRC	P42704	LPPRC_HUM	2 Deamidation (N)	1094800	957070	1013900	0	0	0	0	0	0
GFTPMTVPDLLR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM_HUM/	Oxidation (M)	0	0	1655600	21264	0	0	12743	0	0
GFVDDIIQPSSTR	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB_HUMA	Unmodified	1216100	1390500	0	65664	100520	0	0	0	0
GFVEFAAKPPAR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Unmodified	2782100	2499800	2702200	127890	148620	137000	0	0	0
GFVEPDHYVVVGAQR	TFRC; TFRC	P02786; G3V0E5	TFR1_HUMA	Unmodified	1732600	1367100	2153900	0	0	0	0	0	0
GFVFITFKEEEPVKK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM/	Unmodified	12320000	10140000	13187000	0	0	0	0	0	0
GFVLQDTVEQLR	MARS1; MARS1; MA	P56192; H0YIC2;	SYMC_HUM/	Unmodified	1316400	691380	450150	0	0	0	0	0	0
GFVPEKNFRVTAYK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Deamidation (N)	0	490130	921600	0	0	0	0	0	0
GFVPSPTSQPGGHESLVDR	VARS1; VARS1	P26640; A0A140T	SYVC_HUMA	Unmodified	738190	647280	509510	0	0	0	0	0	0
GFVVGYDTR	PGM2L1	Q6PCE3	PGM2L_HUM	Unmodified	2049800	0	1543000	0	267670	287960	0	0	0
GFWYDAEISR	UHRF1; UHRF1; UH	Q96T88; A0A087	UHRF1_HUM	Unmodified	1582900	1197800	1035700	0	0	0	0	0	0
GFYEALFDGHPPGK	EEF1D; EEF1D; EEF	E9PQR8; E9PRY8	E9PQR8_HUM	Unmodified	458700	601620	509250	0	0	0	0	0	0
GFYIYQEGVK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	Unmodified	4917400	3476600	3843200	108760	127620	130580	0	0	0
GFYPQYGALETR	KANK2; KANK2	Q63ZY3; K7ES05	KANK2_HUM	Unmodified	0	704580	0	84217	76498	0	66840	0	0
GGAAAGVEAR	MTCH1; MTCH1	Q9NZJ7; H0Y8C3	MTCH1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
GGAAGMAGAGAGAGAR	MTCH1	Q9NZJ7	MTCH1_HUM	Oxidation (M)	119360	128010	147320	0	41944	22979	0	0	0
GGAAVDPDSGLEHSAHVLEKGGK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Methyl (KR)	3053700	2538000	2241100	0	0	0	0	0	0
GGADVNIR	SNRNP70	P08621	RU17_HUMA	Unmodified	5065800	5331300	4559000	450310	0	413930	0	0	0
GGAEGELQALR	PLEC	Q15149	PLEC_HUMA	Unmodified	2101200	1728500	1823900	418350	427580	397960	0	0	0
GGAEGELQALRAR	PLEC	Q15149	PLEC_HUMA	Unmodified	0	0	0	0	41508	90615	0	26102	0
GGAEPRPLPLSYR	ABHDI1; ABHDI1; ;	Q8NFV4; H7BZ55	ABHDB_HUM	Unmodified	1831700	1843400	1705400	177640	155650	163780	0	21686	0
GGAEQFMEETER	CCT7	Q99832	TCPH_HUMA	Oxidation (M)	5788600	4605900	5253500	94970	85543	72194	0	0	0
GGAEVQIFADVPQMHVIDHTK	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B_HUM	Oxidation (M)	885540	1451900	1429800	0	0	0	0	0	0
GGAEVQIFADVPQMHVIDHTKGQPSEGESR	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B_HUM	Oxidation (M)	3493200	2223000	2252900	0	0	0	0	0	0
GGAGVGSMTK	RPS19	P39019	RS19_HUMA	Unmodified	12099000	5135400	0	224550	224920	287200	0	0	0
GGAPAEGEGAAETLPEASR	DNMT3A; DNMT3A	Q9Y6K1; F8WE91	DNM3A_HUM	Unmodified	759080	856190	708340	0	0	0	0	0	0
GGARVEPADASGTEKAFEPATGR	ALDH9A1	P49189	AL9A1_HUM	Unmodified	6214500	6147400	5381900	658500	739270	832520	93347	16049	126260
GGDGGESERFNPGELR	TCERG1; TCERG1;	O14776; A0A7P0	TCRG1_HUM	Unmodified	1268200	930030	1028000	69487	75424	62835	0	0	0
GGDGPMCRPVILLPEDTPPFLELK	MSH6; MSH6; MSH6	P52701; A0A494C	MSH6_HUMA	Oxidation (M)	3657000	2229500	2869400	0	0	0	0	0	0

GGDISVCEWYQR	COX6B1	P14854	CX6B1_HUM	Unmodified	2927500	2241500	2998400	79124	70350	44123	0	0	0
GGDLMAYDR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Oxidation (M)	56290000	47225000	55003000	4054700	4656600	4310900	26695	0	33839
GGDLMAYDRR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Oxidation (M)	4752800	5669300	7440800	0	0	0	0	0	0
GGDPSKEPERVVHYEI	NDUFB8	O95169	NDUB8_HUM	Unmodified	3108900	2752300	3554000	0	371690	387590	135420	165580	126670
GGDSIGETPTPGASK	SF3B1	O75533	SF3B1_HUM	Unmodified	1582800	1682200	1238400	132990	135800	55231	0	0	0
GGDSIGETPTPGASKR	SF3B1	O75533	SF3B1_HUM	Unmodified	1849300	1470300	2231600	180190	172480	175360	40398	27423	98621
GGEATRMEEGEVYAIETFGSTGK	METAP2; METAP2;	P50579; F8VRR3;	MAP2_HUM	Oxidation (M)	1949900	2513400	2648100	0	0	0	0	0	0
GGEDLRQDQR	PRKDC	P78527	PRKDC_HUM	Unmodified	841120	728140	763430	42849	26720	43540	0	0	0
GGEGALQVLPPLVDVIPEAR	TTC26; TTC26; TTC	A0AVF1; B7Z2T3	IFT56_HUM	Unmodified	145770	147230	129360	0	0	0	0	0	0
GGEIQPVSVK	HSPE1; HSPE1; HSP	P61604; B8ZZS4;	CH10_HUM	Unmodified	40049000	47747000	41285000	1061400	1313200	978200	0	0	0
GGEIQPVSVKVGDK	HSPE1; HSPE1; HSP	P61604; B8ZZS4;	CH10_HUM	Methyl (KR)	3951600	3883200	3628100	0	0	0	0	0	0
GGEIQPVSVKVGDKVLLPEYGGTK	HSPE1; HSPE1; HSP	P61604; B8ZZS4;	CH10_HUM	Methyl (KR)	2889500	0	0	0	0	0	0	0	0
GGELVYTDSEAR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUM	Unmodified	1221600	0	802900	220440	172970	281150	0	0	0
GGELVYTDSEARDVFEK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUM	Unmodified	3358300	2184200	3479100	326160	300870	375960	39928	45184	35549
GGENIYPAELEDFFHTHPK	ACSF2; ACSF2	Q96CM8; E9PF16	ACSF2_HUM	Unmodified	2148800	1131300	2193800	0	0	0	0	0	0
GGETDEFSNVR	ACBD5; ACBD5; AC	Q5T8D3; A0A7I2	ACBD5_HUM	Unmodified	0	0	0	0	0	0	0	0	0
GGETIKQLQER	FUBP1; FUBP3; KHS	Q96AE4; Q96I24;	FUBP1_HUM	Unmodified	17141000	17767000	16313000	1009100	364540	389580	103670	0	0
GGETIKSISQQSGAR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	3059800	3678800	3154100	118220	84903	138290	0	16804	0
GGETSEMYLIQPDSSVKPYR	FGB; FGB	P02675; D6REL8	FIBB_HUMA	Oxidation (M)	889850	0	0	85173	0	53923	37791	34982	0
GGFEEPVLLK	SAMHD1; SAMHD1;	Q9Y3Z3; A0A2R8	SAMH1_HUM	Unmodified	1046800	503830	709130	56479	58569	50586	0	0	11840
GGFLPPEEIKER	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	862000	1367600	1097000	0	0	0	0	0	0
GGFVLLDGETFEVK	SELENBP1; SELENB	Q13228; A6PVX1	SBP1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
GGGAFVQNSQPVAVR	KIF5B	P33176	KIN5B_HUMA	Deamidation (N)	1345100	1063800	1298000	122060	134480	101910	0	0	0
GGGAFVQNSQPVAVR	KIF5B	P33176	KIN5B_HUMA	Deamidation (N)	10951000	9774600	10483000	0	319290	155230	0	27630	0
GGGAFVQNSQPVAVRGGGGKQV	KIF5B	P33176	KIN5B_HUMA	Deamidation (N)	0	0	0	219370	246170	203070	54273	75122	76334
GGGAGGSSVGTGGGGTGGVGGGAGSEDSGDR	RING1	Q06587	RING1_HUM	Unmodified	487640	627010	719990	0	0	0	0	0	0
GGGALSAVAATK	SRP54; SRP54; SRP5	P61011; G3V480;	SRP54_HUM	Unmodified	1544600	1787300	1498400	0	0	0	0	0	0
GGGDLPNSQEALQK	DDAH2	O95865	DDAH2_HUM	Unmodified	1593400	1425100	1643400	115680	109170	126040	0	0	0
GGGDLPNSQEALQK	DDAH2	O95865	DDAH2_HUM	Deamidation (N)	3302300	2986200	3569900	155070	170040	144650	0	0	0
GGGEQETQELASK	PURB	Q96QR8	PURB_HUMA	Unmodified	809140	789690	780620	0	0	217890	0	0	0
GGGGFGAGPGPGGLQSGQTIALPAQGLIEFR	PURB	Q96QR8	PURB_HUMA	Unmodified	732500	369620	362010	0	0	0	0	0	0
GGGGGGGGGAPR	SRSF1; SRSF1	Q07955; J3KTL2	SRSF1_HUM	Unmodified	19225000	4118000	21239000	0	0	0	0	0	0
GGGGGGPGEGFDVAK	DRG1	Q9Y295	DRG1_HUMA	Unmodified	1640700	2181200	3324800	0	0	0	0	0	0
GGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	50493000	60019000	64536000	4487500	3463500	3312500	915980	702850	761270
GGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	47145000	45384000	36090000	2371600	2528700	1875500	390420	93911	501440
GGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	12203000	12978000	14806000	568330	524220	443280	108590	137450	82771
GGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	2927700	25244000	20837000	2052000	1433100	1218500	251090	38661	180730
GGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	21004000	16114000	20612000	505160	486910	565320	56412	176940	0
GGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Methyl (KR);Deam	0	0	0	0	0	0	0	0	0
GGGGPGGGGPGGGSAGGPSQPPGGGGPGIR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	4779600	4780000	3587100	264090	155290	172800	37120	32986	37021
GGGGPGSLALR	N/A	N/A	N/A	Unmodified	7356200	2780700	8226200	49760	52917	49409	12881	12963	0
GGGGSGGYYGQGGMSGGGWR	HNRNPH3	P31942	HNRH3_HUM	Oxidation (M)	530630	930840	1077300	0	0	0	0	0	0
GGGHVAQIYAIR	RPS16; RPS16; RPS1	P62249; M0R210;	RS16_HUMA	Unmodified	1207600	1244400	0	0	0	0	0	0	0
GGGLFLLAGPPASVETLGPR	AARSD1; PTGES3L-	Q9BTE6; B3KSP5	AASD1_HUM	Unmodified	214180	0	279810	0	0	0	0	0	0
GGGLRLPLLPPESPGPLR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	2582300	1604800	1839400	0	0	0	0	0	0
GGGNQVSLLNVVMDLKK	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M);Deai	763070	563180	0	0	0	0	0	0	0
GGGPAGAGGEAPAALR	EXOSC6	Q5RKV6	EXOS6_HUM	Unmodified	2002200	2199400	2355600	0	62483	74453	0	0	0
GGGPMGPGSGPNLR	DERPC	P0CG12	DERPC_HUM	Oxidation (M)	1295200	1304800	1087100	161070	174070	142180	73524	0	0
GGGPTSSEQIMK	BAX	Q07812	BAX_HUMA	Oxidation (M)	4738400	5404700	5320900	0	117500	0	0	0	0
GGGPTSSEQIMKTGALLLQGFIQDR	BAX	Q07812	BAX_HUMA	Oxidation (M)	1637500	1436500	1556500	0	0	0	0	0	0
GGGQEERPFVAR	FN3KRP; FN3KRP	Q9HA64; I3L2G3	KT3K_HUMA	Unmodified	5616700	0	0	535380	478840	586600	0	0	0
GGGQIIPTAR	EFTUD2; EEF2; EFT	Q15029; P13639;	U5S1_HUMA	Unmodified	90453000	84020000	83278000	2895400	2517700	3098400	132580	0	269430
GGGSQHYPEER	SLTM; SLTM; SLTM	Q9NWH9; H0YKI	SLTM_HUMA	Unmodified	231410	221230	222610	23921	130030	22130	0	0	0
GGGVGGFLPAMK	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M)	4068400	2817700	4074900	160830	154320	0	0	0	0
GGHFAAFEEPELLAQDIR	EPHX1	P07099	HYEP_HUMA	Unmodified	3438100	5477600	3703600	0	0	0	0	0	0
GGHFAAFEEPELLAQDIRK	EPHX1	P07099	HYEP_HUMA	Unmodified	5552500	5049200	6212700	0	0	0	24192	0	0
GGHFYSAKPEILR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	Unmodified	1612500	1357800	1789100	0	0	18500	0	0	0
GGHMDDGGYSMNFNMSSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	3 Oxidation (M)	4000300	2158300	1884500	76476	0	0	17868	26235	12754
GGHMDDGGYSMNFNMSSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	3 Oxidation (M);2 I	1228000	2132400	1615000	32579	250970	48046	0	0	0
GGHMDDGGYSMNFNMSSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	3 Oxidation (M);De	2025300	3646600	2421900	113660	101860	188470	0	0	0
GGHPPAIQSLINLLADNR	NCOA5	Q9HCD5	NCOA5_HUM	Unmodified	308060	0	440290	0	0	0	0	0	0
GGHSGLGPSSVAPSFRPEDELEHLTK	LPP; LPP; LPP; LPP	Q93052; C9JUT4;	LPP_HUMAN	Unmodified	1759500	1353200	1336800	0	0	0	48399	0	0
GGHVDLTMLGAMQVSK	OXCT1; OXCT1	P55809; E9PDW2	SCOT1_HUM	2 Oxidation (M)	9579200	6713500	4462500	182350	296320	203110	0	0	22073
GGILJTER	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	7780500	8361300	9626800	31821	0	0	0	0	0
GGIMLPEK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Oxidation (M)	26422000	24052000	25229000	415720	364890	166450	0	0	0
GGIMLPEKSQGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Oxidation (M)	38593000	36426000	39892000	550660	681820	846310	0	0	0
GGIMLPEKSQGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Oxidation (M);Metl	3489100	4190000	3339500	0	0	64449	0	0	0
GGIMLPEKSQGKVLQATVVAVGSGSK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Oxidation (M)	2105700	2025100	1478500	0	0	0	0	0	0
GGIVDEGALLR	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Unmodified	8706000	9241500	9700000	879090	748850	827800	0	117090	101320
GGIVGMTLPIAR	HSD17B10	Q99714	HCD2_HUMA	Oxidation (M)	10041000	13846000	21906000	694980	589600	650430	21733	23693	22145
GGIVSQVKVPK	UBA1	P22314	UBA1_HUMA	Unmodified	1185800	945480	1153500	0	0	0	0	0	0
GGKNSTWSGESK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	8374700	9416500	2417400	210340	0	0	0	0	0
GGKPEPPAMPQPVPTA	RPS3; RPS3; RPS3; F	P23396; H0YEU2	RS3_HUMAN	Oxidation (M)	2611600	2752600	2518100	365210	0	184370	0	0	0
GGLNTPLHESDFSGVTPQR	CDC5L	Q99459	CDC5L_HUM	Unmodified	0	1014300	1106200	0	0	0	0	0	0
GGLNTPLHESDFSGVTPQR	CDC5L	Q99459	CDC5L_HUM	Deamidation (N)	1430700	884510	0	0	0	23130	0	0	0
GGLPITQLFR	AP1G2	O75843	AP1G2_HUM	Unmodified	504650	456070	558800	0	0	0	0	0	0
GGLPLEEVTVAEVLAAR	ARSA; ARSA	P15289; A0A0C4	ARSA_HUMA	Unmodified	501850	87781	316440	0	0	0	0	0	0
GGLVDEKALAQALKEGR	CTBP2; CTBP1; CTB	P56545; Q13363;	CTBP2_HUM	Unmodified	9787400	10720000	7377000	134920	81039	24700	28353	20885	0
GGMGSGGLATGIAGGLAGMGGIQNEK	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	2 Oxidation (M)	2778100	2364400	1989600	457010	0	0	78480	134400	0
GGMGSGGLATGIAGGLAGMGGIQNEKETMQSLNDR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	3 Oxidation (M);De	1582300	1165600	1272500	0	0	0	0	0	0
GGNFGFGDSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	78965000	74472000	83340000	5094000	5421100	5504400	1124500	1046800	149050
GGNFGFGDSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	35820000	38052000	37236000	2749000	1873500	2296500	535800	774290	76358
GGNFGFGDSRGGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	7104000	13120000	8913000	405440	353320	386330	62595	61117	73866
GGNFGFGDSRGGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	4694200	1622600	3750500	51044	44858	46909	0	0	0
GGNFGFGDSRGGGGNFGPGPGSNFR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	3 Deamidation (N)	1431900	2212000	1753900	0	0	0	0	0	0
GGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	670680	831870	1084400	75886	0	0	0	0	0
GGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	1830700	5806600	9524000	38313	157010	106830	0	0	0
GGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	3 Deamidation (N)	1420900	1436700	1719400	0	0	0	38417	0	0
GGNIGDGGGAADR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	6188100	8701000	0	0	0	0	0	0	0
GGNMKEVFTR	CKB	P12277	KCRB_HUM	Oxidation (M)	1021300	0	1107600	0	0	0	0	0	0
GGNRFEPYANPTK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Deamidation (N)	1231200	0	854420	38710	42101	0	0	0	0
GGNRFEPYANPTKR	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Deamidation (N)	5363400	4451000	3587800	0	61448	198180	0	0	30797
GGNVGYGEPSDQADVVMSMTTDDFVK	HSDL2	Q6YN16	HSDL2_HUM	2 Oxidation (M)	1692300	2155300	0	0	0	0	0	0	0
GGPASVPSSSPGTSVK	DYNC1LI2; DYNC1I	O43237; J3KRZ2;	DC1L2_HUM	Unmodified	488890	798680	645200	68997	59670	72618	0	0	0
GGPDFSNLEK	NUDCD2; NUDCD2	Q8WVJ2; E5RFP(	NUDC2_HUM	Unmodified	4296000	4359100	0	0	386820	567870	0	0	0
GGPGGELPR	EIF4G1; EIF4G1; EIF	Q04637; C9J2Z7;	IF4G1_HUMA	Unmodified	7340100	8651300	7939300	396400	584220	653490	0	0	0
GGPGGPGGPGGPMGR	EWSR1; EWSR1; EW	O01844; H7BY36	EWS_HUMA	Oxidation (M)	1208400	1483300	1574000	95040	83198	91852	0	0	0
GGPGSAVSPYPTFNPSSDVAALHK	ANXA1; ANXA1; AN	P04083; Q5T3N0;	ANXA1_HUM	Unmodified	1640200	1474700	2224600	0	187770	0	0	0	0
GGPILTPAR	KALRN; TRIO; KALI	O60229; O75962;	KALRN_HUM	Unmodified	1297200	1013100	1278700	37621	22223	0	0	0	0
GGPLPEPRPLMAEPR	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2_HUM	Oxidation (M)	5445200	5075600	4566300	195710	174640	178120	26656	31812	25747
GGPLQALTR	TMPO	P42167	LAP2B_HUM	Unmodified	16910000	16045000	14314000	229910	242810	206090	56986	0	0
GGPNIITLADIVKDPVSR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Unmodified	21421000	22008000	21966000	0	0	0	0	0	0
GGPNIITLADIVKDPVSR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23_HUM	Deamidation (N)	1364400	934020	1124100	0	0	0	0	0	0
GGPPFAFVEFEDPR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	1786300	1610000	1720400	0	0	0	0	0	0
GGPPFAFVEFEDPRDAEDAVYGR	SRSF1; SRSF1	Q07955; J3KTL2	SRSF1_HUM	Unmodified	11354000	9380300	8086000	0	0	0	0	0	0
GGPPGPPISR	EIF4G1; EIF4G1; EIF	Q04637; H7C044;	IF4G1_HUMA	Unmodified	3769500	4117200	3990700	982940	1011600	903600	176010	167890	22316
GGPPGQFHDNANGGQNGTVQEIMIPAGK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Oxidation (M);2 De	929680	940250	1150000	0	0	0	0	0	0
GGPPGQFHDNANGGQNGTVQEIMIPAGK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Oxidation (M);3 De	0	0	2016100	0	0	0	0	0	0
GGPTPQEAIQR	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	6696200	5825700	6661800	205050	233580	240930	0	0	0
GGPTVDPEELFR	DNAJA3	Q96EY1	DNJA3_HUM	Unmodified	2391900	2476100	2172600	18296	19166	16005	0	0	0
GGPTVDPEELFRK	DNAJA3	Q96EY1	DNJA3_HUM	Unmodified	317580	309520	244730	0	0	0	0	0	0
GGPVQVLEDEELK	SELENBP1	Q13228	SBP1_HUMA	Unmodified	0	518570	392710	139030	104400	105200	0	0	0
GGPVQVLEDEELKSQPEPLVVK	SELENBP1	Q13228	SBP1_HUMA	Unmodified	4848000	3319800	3736400	0	23005	0	0	0	0
GGPYKTEPATDLGR	LSS; LSS	P48449; C9J315	LSS_HUMAN	Unmodified	493630	685020	391870	0	0	0	0	0	0
GGQAPAPPTR	SCIN	Q9Y6U3	ADSV_HUM	Unmodified	7291400	8712600	7447300	106180	95783	85600	0	0	0
GGQQVDRGPQPALK	SSH3; SSH3	Q8TE77; C9JUG3	SSH3_HUMA	Unmodified	531550	0	0	108070	0	223020	18181	0	15432
GGQTHLGLPVFNTVK	SUCLG1; SUCLG1	P53597; A0A494	SUCA_HUMA	Deamidation (N)	0	2745100	890640	0	15213	0	0	0	0
GGQVQIVTK	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	1630000	1839000	1756300	0	0	0	0	0	0
GGQYENFR	ZC3H18; ZC3H18	Q86VM9; E7ERS2	ZCH18_HUM	Unmodified	475980	747220	719390	0	39941	0	0	0	0
GGRPNEIEPPPPEMPPWQK	FAM98A; FAM98B	Q8NCA5; Q52LJ0	FA98A_HUM	Oxidation (M)	1577100	0	0	0	0	0	0	0	0
GGSASSQLDEGK	NIBAN1	Q9BZQ8	NIBA1_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
GGSDDSSKDPIDVNYEK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Unmodified	12437000	16714000	16788000	163280	157640	164260	0	0	0
GGSDDSSKDPIDVNYEK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Methyl (KR)	1566100	1543400	1371400	0	0	0	0	0	0
GGSDDSSKDPIDVNYEKLK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Unmodified	2071000	2159900	2101500	0	0	0	0	0	0
GGSDGYGSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	31021000	34367000	35191000	1596700	1538500	1677500	34615	0	20920
GGSFENNWNIYK	PFKL	P17858	PFKAL_HUM	Deamidation (N)	889590	1371000	1094700	0	0	0	0	0	0
GGSGAPILLR	ETHE1; ETHE1; ETH	O95571; M0QY80	ETHE1_HUM	Unmodified	3272200	2385200	3267400	253350	234540	232320	23634	25827	22864
GGSGGGGEGIQDRESSFR	AKAP8; AKAP8; AK	O43823; A0A7P0	AKAP8_HUM	Unmodified	1134000	1587100	1215800	77854	30680	42718	0	0	0
GGSGSHNWGTVKDELTESPK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	661300	939010	826270	0	0	0	0	0	0
GGSLPKVEAK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Unmodified	4767200	4566400	4501800	0	0	0	0	0	0
GGSRGEEVGELSR	CNP	P09543	CN37_HUMA	Unmodified	6306700	2383400	488500	182070	186770	154970	0	0	0
GGSTSYGTGSETESPR	FGA	P02671	FIBA_HUMA	Unmodified	1969600	1769000	1745800	183850	214290	198950	0	30323	0

GGSWIQEINVAEK	PRKDC	P78527	PRKDC_HUM	Unmodified	0	0	1008000	13903	13910	0	0	0	0
GGTGFAGSGVK	NOSIP; NOSIP	Q9Y314; A0A075	NOSIP_HUM	Unmodified	1396500	1182100	1216600	149840	114980	0	0	0	15931
GGTILAPTVSAK	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Unmodified	3364600	3748000	3376200	71420	47124	57730	0	0	0
GGTLTQYEGK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA_HUM	Unmodified	1347000	1272600	936050	0	0	0	0	0	0
GGTVADLDEQDEETVTAGGKEDEDPAKGDQSR	SMARCC1	Q92922	SMRC1_HUM	Unmodified	2071700	1660200	1955300	0	0	0	0	0	0
GGVADALLYR	COX7A2; COX7A2; (	P14406; H0UI06;	CX7A2_HUM	Unmodified	3211400	1956400	1780500	0	0	0	0	0	0
GGVDHAAAFGR	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4_HUM	Unmodified	1454200	2188300	0	127500	102460	108370	0	0	0
GGVDVTLPR	AHNAK	Q09666	AHNK_HUM	Unmodified	563300	0	0	277560	214600	229290	150790	88010	107410
GGVDVTLPRVEGK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	549350	253390	433710	144290	0	113690
GGVEEGPTVLR	ARG1; ARG1	P05089; A0A5F9	ARGI1_HUM	Unmodified	3706400	330140	446350	772060	411140	439220	0	0	0
GGVEEGPTVLRK	ARG1; ARG1	P05089; A0A5F9	ARGI1_HUM	Unmodified	2847200	1895800	1374700	510210	529590	545310	24391	62405	28819
GGVGSRADYDTLSLR	PKP3; PKP3; PKP3; (	Q9Y446; E9PK71	PKP3_HUM	Unmodified	939270	507210	482610	186270	0	307910	0	0	0
GGVHLTKDPNVVGQLAK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2_HUM	Unmodified	610240	659060	713730	22583	36292	36850	0	0	0
GGVQVPAVDISSSLGGR	AHNAK	Q09666	AHNK_HUM	Unmodified	287580	499570	275290	99784	61678	34239	114990	59215	67830
GGVSGFGVPPASMR	DERL1; DERL1; DEI	Q9BUN8; B4E1G	DERL1_HUM	Oxidation (M)	1109600	1290800	1314400	153280	0	0	0	0	0
GGVTEISAADKAEEFRR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1_HUM	Unmodified	1253800	822440	900020	0	0	23740	0	0	0
GGVVLKEDALPGQK	BSG; BSG; BSG; BSC	P35613; A0A7P0	BASI_HUMA	Unmodified	1173900	977740	1364900	0	67478	58270	0	0	0
GGVVNAAKEEHETDEKRGK	U2SURP; U2SURP; U	O15042; C9JDJ7;	SR140_HUM	Unmodified	434270	663770	677360	0	0	0	0	0	0
GGYFDEFGIIR	G6PD; G6PD; G6PD	P11413; E7EM57;	G6PD_HUMA	Unmodified	1648600	1511700	1802300	0	15830	9746.4	0	0	11873
GGYKGSTYFER	UBE2M	P61081	UBC12_HUM	Unmodified	8241800	7852900	8696100	436960	420860	328060	0	65542	34614
GGYTSGTFR	MCM3; MCM3; MC	P25205; A0A499	MCM3_HUM	Unmodified	1750000	990850	2198100	0	0	0	0	0	0
GGYVLHIGTIYGDLK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC_HUM	Unmodified	647150	716490	662970	0	0	0	0	0	0
GHAGNPRDPTDEGIFISK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	3024600	3079500	3324300	51298	147470	50487	0	0	0
GHASAPYFGKEEPSVAPSSTGK	NDUFAF2	Q8N183	NDUF2_HUM	Unmodified	1143200	1373600	0	0	0	0	0	0	0
GHAVGDIPGVR	RPS23; RPS23	P62266; D6RD47	RS23_HUMA	Unmodified	324030	507060	1664700	0	23797	19762	0	0	0
GHAVNLLDVPVPVAR	DNM1L	O00429	DNM1L_HUM	Deamidation (N)	0	2298700	0	0	0	0	0	0	0
GHAVPPTLVPLMNGSATPLPTALGLGGR	IRF2BP2	Q7Z5L9	IF2BP2_HUM	Oxidation (M);Deai	561430	698280	1151900	0	0	0	0	0	0
GHAYSVTGAEEVESNGSLQK	CAPN2	P17655	CAN2_HUMA	Deamidation (N)	1109700	1692400	1285700	0	0	0	0	0	0
GHDEREHPFLVK	PRKDC	P78527	PRKDC_HUM	Unmodified	1762400	2027700	2058500	0	0	0	0	0	0
GHDLMSNTPDSVPPEELKPYHIR	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM_HUM	Oxidation (M)	3344700	0	2866800	0	0	0	0	0	0
GHLDAELDAYMAQTDPETND	CHTOP; CHTOP	Q9Y3Y2; X6R700	CHTOP_HUM	Oxidation (M)	606330	729130	666720	146950	44160	32873	0	0	0
GHLENNPALEK	RPLP0; RPLP0%; R	P05388; Q8NHW5	RLA0_HUMA	Deamidation (N)	964790	0	0	0	0	0	0	0	0
GHLENNPALEK	RPLP0; RPLP0%; R	P05388; Q8NHW5	RLA0_HUMA	Unmodified	9677700	8273400	5002700	150600	87325	107880	0	0	0
GHLENNPALEKLLPHIR	RPLP0; RPLP0; RPL	P05388; F8VRK7;	RLA0_HUMA	Methyl (KR)	533400	474910	635500	0	0	0	0	0	0
GHLENNPALEKLLPHIR	RPLP0; RPLP0; RPL	P05388; F8VRK7;	RLA0_HUMA	Unmodified	0	2086300	3065400	0	0	0	0	0	0
GHLESSLLSHLVDPKDLEPR	B3GAT3; B3GAT3	O94766; G3V150	B3GA3_HUM	Unmodified	4493100	0	0	0	0	0	0	0	0
GHLSRPEAQSLSPYTTSANR	MTA2	O94776	MTA2_HUM	Unmodified	3113400	1416900	4369500	0	0	0	0	0	0
GHLVLTPFGIGDGR	ZNF48; ZNF48	Q96MX3; A0A087	ZNF48_HUM	Unmodified	1404300	457400	830990	0	0	0	0	0	0
GHNGWVTQIATTPQFPDMILSASR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Oxidation (M);Deai	6405300	4650100	2686700	0	0	0	0	0	0
GHPDLIMGFNTFLPPGYK	SIN3A	Q96ST3	SIN3A_HUM	Oxidation (M);Deai	396410	433910	350850	0	0	0	0	0	0
GHPDLQGQPAEEIFESVGDR	LMAN1	P49257	LMAN1_HUM	Unmodified	1354800	1475000	1068000	16875	0	0	0	0	0
GHPDLQGQPAEEIFESVGDRELR	LMAN1	P49257	LMAN1_HUM	Unmodified	1578900	0	1761500	0	0	0	0	0	0
GHQAFDVGQPR	IGF2R; IGF2R; IGF2F	P11717; A0A7I2V	MPRI_HUMA	Unmodified	1072700	610670	715350	0	26216	0	0	0	0
GHSFADPASNLGLEDIIR	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1_HUM	Unmodified	1572600	1068100	1121700	0	0	0	0	0	0
GHTNQVSR	WDR1	O75083	WDR1_HUM	Unmodified	38319	85248	110000	0	0	0	0	0	0
GHTPTQPGALNQR	HSPG2	P98160	PGBM_HUM	Unmodified	1311600	2166300	1880500	246930	254200	260910	0	0	0
GHTPTQPGALNQR	HSPG2	P98160	PGBM_HUM	Deamidation (N)	0	0	0	0	168560	199300	0	0	0
GHTVTEPIQPLEPELPGEGQPEAR	POLR1G	O15446	RPA34_HUM	Unmodified	5934100	5091200	4162900	149050	103120	132100	58829	32487	30190
GHVDILAPTVQELAALEK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Unmodified	1736400	2292400	1627400	0	0	0	0	0	0
GHVFEESQVAGTPMFVVK	EEF2	P13639	EF2_HUMAN	Oxidation (M)	54769000	47212000	42098000	851070	837960	654820	0	84685	0
GHVTQDAPIPGSPLYTIK	EFTUD2	O15029	U5S1_HUMA	Unmodified	5015600	3015600	5667500	64592	70010	60107	0	0	0
GHYTEGAELVDSVLDVVR	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Unmodified	140830000	57651000	168030000	71346	35634	0	0	0	35886
GHYTEGAELVDSVLDVVRK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A_HUM	Unmodified	126900000	95840000	100860000	36065	43144	52907	0	0	0
GHYTIGKEIIDLVLDR	TUBA1A; TUBA1C;	Q71U36; Q9BQE3	TBA1A_HUM	Unmodified	1653500	552730	1289300	0	0	0	0	0	0
GIAPGDER	PRKDC	P78527	PRKDC_HUM	Unmodified	0	3139600	1911400	0	0	0	0	0	0
GIAQMLEK	CSNK2B; CSNK2B; (	P67870; Q5SRQ6;	CSK2B_HUM	Oxidation (M)	4502000	3526700	3500200	0	0	0	0	0	0
GIASTSDPPTANIKPTPVVSTPSK	TPR	P12270	TPR_HUMAN	Unmodified	2616900	2292000	2866100	105640	95121	83537	25207	25260	28613
GIASTSDPPTANIKPTPVVSTPSKVTAAAMAGNK	TPR	P12270	TPR_HUMAN	Oxidation (M)	1043600	1597500	1733500	116790	0	0	0	0	0
GIAYIEFK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	25704000	23871000	26533000	366980	358090	358910	24113	26666	18495
GIAYIEFKTEADAEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	1807900	1191100	929370	0	0	0	0	0	0
GIAYIEFKTEADAEKTFEEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	8532000	5408700	5708400	0	0	0	0	0	0
GIAYIEFKTEADAEKTFEEKQGTEIDGR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	12752000	7210500	9845900	0	0	0	0	0	0
GICRDFLESQQ	COCH; COCH; COCI	O43405; A0A2U3	COCH_HUM	Unmodified	0	0	0	402580	374490	348110	0	0	0
GIDIHGVPYVINVTLPDEK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Unmodified	583620	377780	467270	0	0	0	0	0	0
GIDIHGVPYVINVTLPDEKQNYVHR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Unmodified	3442600	5088400	4814000	0	0	0	0	0	0
GIDIHGVPYVINVTLPDEKQNYVHR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1_HUMA	Deamidation (N)	1324300	1108100	993440	0	0	0	0	0	0
GIDPFSLDALSK	CCT6A	P40227	TCPZ_HUMA	Unmodified	9488000	11285000	7784200	45227	49175	33750	0	0	0
GIDPFSLDALSKEGIVALR	CCT6A	P40227	TCPZ_HUMA	Unmodified	303040	117190	36260	0	0	0	0	0	0
GIDPFSLDALSKEGIVALRR	CCT6A	P40227	TCPZ_HUMA	Unmodified	2194900	1382000	1884600	0	0	0	0	0	0
GIEEVGIYR	ABR; ABR; ABR; AE	Q12979; A0A0G2	ABR_HUMAN	Unmodified	1198400	583220	610450	0	0	0	0	0	0
GIEGTVPYVTTDYNFKLPGASEK	NOL9	Q5SY16	NOL9_HUMA	Deamidation (N)	965740	0	1320400	0	0	0	0	0	0
GIEILTDMSRPVELSDR	CCT4	P50991	TCPD_HUMA	Oxidation (M)	0	1556200	2214700	21663	0	24944	0	0	0
GIEKPPFELPDFIK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM	Unmodified	4074100	4354000	4133600	0	0	0	0	0	0
GIEKPPFELPDFIKR	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM	Unmodified	11013000	9438100	9730500	38552	0	0	16251	0	0
GIEMSEVR	DLD; DLD	P09622; E9PEX6	DLDH_HUM	Oxidation (M)	16036000	14333000	8424700	616530	1217000	1247900	0	0	0
GIEMSEVRLNLDKMMEQK	DLD; DLD	P09622; E9PEX6	DLDH_HUM	3 Oxidation (M)	0	2105400	2730600	87067	83526	78697	0	0	0
GIEQAVQSHAVAEEEAR	IMMT; IMMT; IMM	Q16891; B9A067;	MIC60_HUM	Unmodified	12576000	11291000	14678000	332200	311530	428170	0	0	12037
GIFEALRPLETLPVEGLIR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	187290	0	0	0	0	0	0	0	0
GIFEPFGR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	5923800	8003500	7472400	164060	166440	160570	0	0	0
GIFEPFGRIESIQLMMDSETGR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	2 Oxidation (M)	11293000	6970800	8492100	0	0	0	0	0	0
GIFLGDQWR	PUM1; PUM1; PUM	Q14671; Q5T1Z4;	PUM1_HUM	Unmodified	716400	0	0	0	0	0	0	0	0
GIFPVLCKDPVQEAWAEDVDLR	PKM; PKM; PKM	P14618; B4DNK4	KPYM_HUM	Unmodified	398330	0	0	0	0	0	0	0	0
GIFTSEIGTK	PRKDC	P78527	PRKDC_HUM	Unmodified	18209000	15885000	17812000	287310	338360	297520	0	0	22440
GIGFGDIFKEGSVK	CD2AP	Q9Y5K6	CD2AP_HUM	Unmodified	2720000	1791300	2368000	43204	23663	33181	0	0	0
GIGFGDIFKEGSVK	CD2AP	Q9Y5K6	CD2AP_HUM	Methyl (KR)	168320	197460	266480	0	0	0	0	0	0
GIGGIFFDDLDSPSKEEVFR	CPOX	P36551	HEM6_HUM	Unmodified	2033500	2793800	2073600	0	0	0	0	0	0
GIGGIFFDDLDSPSKEEVFR	CPOX	P36551	HEM6_HUM	Methyl (KR)	288200	254160	974290	0	0	0	0	0	0
GIGMGNIGPAGMGMEGIGFGINK	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM_HUM	3 Oxidation (M)	44227000	7356900	6271600	1271300	922380	396790	0	134010	0
GIGMGNIGPAGMGMEGIGFGINK	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM_HUM	3 Oxidation (M);De	3912900	6235000	4704000	37453	62444	26541	0	0	0
GIGQVLPTHLMEER	PTK2; PTK2; PTK2;	Q05397; E9PEI4;	FAK1_HUMA	Oxidation (M)	3904500	2446400	2922800	102700	56631	88427	0	0	0
GIGTVTFEQSIEAVQAISMFNGQLLFDRPMHVK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	2 Oxidation (M);De	1367300	0	0	0	0	0	0	0	0
GIHEYDFEIK	GNA13	Q14344	GNA13_HUM	Unmodified	506690	601490	796810	49685	49609	40326	0	0	0
GIHPTIISESFQK	CCT4	P50991	TCPD_HUMA	Unmodified	2783000	3727500	3657100	0	0	0	0	0	0
GIIDLSQVPHLPVLVPPTPGTPATAMDR	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5;	NCOR2_HUM	Oxidation (M)	294660	408040	486080	0	0	0	0	0	0
GIIDPTKVVR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	4798500	4045700	0	197960	191100	193070	0	0	0
GIIIMGEDDDSHPSEMR	PITHD1	Q9GZP4	PITH1_HUM	2 Oxidation (M)	1650500	1434800	1813200	85241	111990	39450	0	0	0
GIISAADRLEAAEMYR	UMPS	P11172	UMPS_HUM	Oxidation (M)	1842800	1602100	1442700	0	0	0	0	0	0
GIISAADRLEAAEMYRK	UMPS	P11172	UMPS_HUM	Oxidation (M)	2897100	3228200	3157800	0	0	0	0	0	0
GIKKPFTEVIR	GPT2; GPT2	Q8TD30; H3BU54	ALAT2_HUM	Unmodified	507770	1473300	1430700	0	0	0	0	0	0
GIKPVTLELGGK	ALDH9A1	P49189	AL9A1_HUM	Unmodified	2989900	2187600	3075000	88240	82441	99412	0	0	0
GILADEDSSRPVWLK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	1143600	1140600	2052700	0	13692	0	0	0	0
GILDALLQTAR	SLC25A35	Q3KQZ1	S2535_HUM	Unmodified	264570	129720	133070	0	0	0	0	0	0
GILEQGWQADSTTR	COPS8; COPS8; COP	Q99627; H7C3S9;	CSN8_HUMA	Unmodified	699880	601970	696660	0	0	0	0	0	0
GILFVGSGVSGGEEGAR	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Unmodified	34272000	29903000	29324000	1063200	768790	833910	0	0	11548
GILHLSPDVYQEMEASR	STAU2; STAU2; STA	Q9NUL3; E5RJN7	STAU2_HUM	Oxidation (M)	3840700	3700400	4372300	0	0	0	0	0	0
GILLFGPPGTGK	VPS4B; FIGNL1; VP	O75351; Q6PIW4;	VPS4B_HUM	Unmodified	2885800	1612300	2480200	30797	28165	28648	0	0	0
GILLFGTK	ACADVL; ACADVL;	P49748; K7EQP4;	ACADV_HUM	Unmodified	0	1014200	1045900	0	0	0	0	0	0
GILLYGPPGTGKTLIAR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1753000	791170	990020	0	0	0	0	0	0
GILQELFLNK	PPP1R10	Q96QC0	PP1RA_HUM	Unmodified	392770	486050	0	0	0	0	0	0	0
GILTLKYPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC_HUMA	Oxidation (M)	6638600	19127000	5689300	0	0	0	0	0	0
GILTLKYPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC_HUMA	Oxidation (M);Met	1647500	1875000	1632800	0	0	0	0	0	0
GILTLKYPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC_HUMA	Oxidation (M);Deai	0	0	2603200	0	0	0	0	0	0
GILTLKYPIEHGIVTNWDDMEK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Oxidation (M);Met	18386000	0	0	0	0	0	0	0	0
GILTLKYPIEHGIVTNWDDMEK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Oxidation (M);Met	2178800	2467200	3327800	0	0	0	0	0	0
GIMEEDEACGR	JUP; JUP; JUP; JUP;	P14923; C9JPI2;	PLAK_HUMA	Oxidation (M)	790020	862170	755090	101430	139470	133880	0	0	0
GIMEEDEACGRQYTLKK	JUP; JUP; JUP; JUP;	P14923; C9JPI2;	PLAK_HUMA	Oxidation (M)	0	0	219490	0	59965	62016	0	0	0
GIMGMFASK	POLD3; POLD3	Q15054; E9PRK3	DPOD3_HUM	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
GINSSNVENQLQATQAAR	KPNA2; KPNA2; KP	P52292; J3QLL0;	IMA1_HUMA	Unmodified	3716800	1768500	1395000	0	0	0	0	0	0
GINTLVTYDMVPEPK	COX5A; COX5A; CC	P20674; H3BV69;	COX5A_HUM	Oxidation (M)	3149200	5228600	0	62312	61862	51529	0	13476	0
GIPAPEEERTR	AHSA1; AHSA1; AH	O95433; H0YJU2;	AHSA1_HUM	Unmodified	6133000	2166100	5815600	191660	0	277300	0	0	0
GIPDDRDGLFDTIQR	USP9X; USP9Y; USP	O93008; O00507;	USP9X_HUM	Unmodified	1028200	1099000	1078000	32840	14989	0	0	87154	0
GIPEFWLTVFK	NAP1L1; NAP1L1; N	P55209; F8VUX1;	NP1L1_HUM	Unmodified	605040	0	534850	0	0	0	0	0	0
GIPFAAPTK	CEL	P19835	CEL_HUMAN	Unmodified	2633600	2641200	2344300	0	0	0	0	0	0
GIPGPVGAAGATGAR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	0	0	0	172850	152100	166300	38583	100660	46425
GIPHLVTHDAR	RPS4Y2; RPS4X; RP	Q8TD47; P62701;	RS4Y2_HUM	Unmodified	8783600	6641100	8821300	254480	0	0	0	0	0
GIPHSLSGLQDPIIAR	KIDINS220	Q9ULH0	KDIS_HUMA	Unmodified	1180600	1261700	1370800	30138	18858	13907	0	0	0
GIPIEVIPMAYVPVSR	RPIA	P49247	RPIA_HUMA	Oxidation (M)	683520	781970	631750	0	0	0	0	0	0
GIPILSLDWLHQSR	MDC1	Q14676	MDC1_HUM	Unmodified	169090	180750	193840	0	0	0	0	0	0
GIPPLSLRPANPLGIEIIEK	EXOC2	Q96KP1	EXOC2_HUM	Unmodified	1221100	1017400	1031900	0	0	0	0	0	0
GIQEAQVELQK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1_HUM	Unmodified	1246200	1251300	987670	72299	83097	66555	0	0	0
GIQEEMEALVK	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Oxidation (M)	2325600	2786000	706150	0	0	0	0	0	0
GIRDDIEEEDDQEAYFR	DDX42; DDX42; DD	Q86XP3; J3KRE3	DDX42_HUM	Unmodified	2137500	1904400	1992300	0	0	0	0	0	0

GIRPFPSEETTENDDDVYR	VAV2	P52735	VAV2_HUMA	Deamidation (N)	0	442970	629500	0	0	0	0	0	0
GIRSQMDGLIPGVEPR	NOP58	Q9Y2X3	NOP58_HUM	Oxidation (M)	0	0	0	72584	65885	81855	0	0	0
GISAFLVPMPTPGLTLGK	ACADS; ACADS	P16219; E9PE82	ACADS_HUM	Oxidation (M)	286750	208850	363440	0	0	0	0	0	0
GISAGAVQTAGK	NOP2; NOP2; NOP2	P46087; F5GWB7	NOP2_HUMA	Unmodified	454720	671910	578860	22166	0	0	0	0	0
GISDLAQHYLMR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Oxidation (M)	14007000	9712200	8681600	32603	34629	32872	0	0	0
GISEETTTGVHNLYK	AHCY	P23526	SAHH_HUMA	Unmodified	37612000	46958000	59312000	809140	939810	958450	58041	50532	64682
GISEETTTGVHNLYK	AHCY	P23526	SAHH_HUMA	Deamidation (N)	2738800	2461300	2252600	77026	71238	114100	0	0	0
GISHVIVDEIHER	DHX9	Q08211	DHX9_HUMA	Unmodified	1664200	2265300	2392100	0	0	132090	0	0	0
GISLNPEQWSQLK	SUB1	P53999	TCP4_HUMA	Unmodified	4236900	3828600	3938300	0	0	0	0	0	0
GISLNPEQWSQLKEQISDIDDAVR	SUB1	P53999	TCP4_HUMA	Unmodified	4178600	366630	1682700	0	0	0	0	0	0
GISPVPINLR	DNM2; DNM1; DNM	P50570; Q05193;	DYN2_HUMA	Unmodified	1554400	1390700	1026100	179740	162690	114500	0	0	0
GISQEQMNEFR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1_HUM	Oxidation (M);Deam	2409100	3163200	3298300	160720	297950	192440	0	0	0
GISQEQMNEFR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1_HUM	Oxidation (M)	3865700	3749000	4122500	0	482910	436650	0	0	64502
GISQEQMQEFR	ACTN4; ACTN4; AC	O43707; F5GXS2	ACTN4_HUM	Oxidation (M)	18256000	17746000	19793000	2698700	1657900	2779600	90022	0	83904
GISVHISNAEPK	TARDBP; TARDBP;	Q13148; A0A087	TADBP_HUM	Deamidation (N)	0	688280	603220	0	26987	0	0	0	0
GISVHISNAEPK	TARDBP; TARDBP;	Q13148; A0A087	TADBP_HUM	Unmodified	724820	620210	611290	0	0	0	0	0	0
GITEQQK	XRCC5	P13010	XRCC5_HUM	Unmodified	0	1265800	0	0	0	0	0	0	0
GITEQQKEGLEIVK	XRCC5	P13010	XRCC5_HUM	Unmodified	5077400	5359500	4878300	0	0	74823	0	0	0
GITFDSGGISIK	LAP3; LAP3	P28838; H0Y9Q1	AMPL_HUM	Unmodified	2018500	2048400	2444200	0	0	0	0	0	0
GITGVDLFGTTDAVVK	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUM	Unmodified	2928600	2371100	2158400	17938	12496	0	15298	0	0
GITGVEDKESWHGKPLPK	TKT; TKT; TKT	P29401; A0A0B4J	TKT_HUMAN	Unmodified	3036300	3218600	3919500	0	92914	0	0	0	0
GITHIGYTDLPSR	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM_HUM	Unmodified	7103000	7005000	7497800	182770	210550	171220	0	0	0
GITINAAHVEYSTAAR	TUFM	P49411	EFTU_HUMA	Unmodified	9088400	11148000	9105800	3239700	2617400	2891700	407020	410870	327740
GITINAAHVEYSTAAR	TUFM	P49411	EFTU_HUMA	Deamidation (N)	17830000	7790600	15811000	1808500	2012100	1603000	547730	337230	431650
GITLHPELFSIDNGLLTPTMK	ACSL1; ACSL1; ACS	P33121; B7Z3Z9;	ACSL1_HUM	Oxidation (M);Deam	2642100	1241500	1862900	0	0	0	0	0	0
GITMATAK	TLN2; TLN1; TLN2;	Q9Y4G6; Q9Y490	TLN2_HUMA	Unmodified	2168800	4186600	2962600	529800	0	0	0	0	0
GIVDQSQQAYQEAFEISK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUM	Unmodified	86246000	82879000	67096000	49187	0	0	0	0	0
GIVDQSQQAYQEAFEISKK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUM	Unmodified	35288000	29569000	29662000	62842	28328	0	0	0	0
GIVDQSQQAYQEAFEISKKEMQPTHPIR	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUM	Oxidation (M)	5241700	7176100	5120500	0	0	0	0	0	0
GIVDSITGQR	DSP	P15924	DESP_HUMA	Unmodified	11726000	10067000	12479000	0	348060	0	28038	0	0
GIVEESVTGVHR	AHCYL1; AHCYL2;	O43865; Q96HN2	SAHH2_HUM	Unmodified	2049900	1288900	1176300	0	0	0	0	0	0
GIVEFASKPAAR	SFPQ	P23246	SFPQ_HUMA	Unmodified	34005000	42100000	46912000	948280	882960	1083500	77877	70508	72685
GIVEFSGK	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Unmodified	2462100	2462500	2466500	65553	64357	64463	0	0	0
GIVEFSGKPAAR	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Unmodified	57710000	57734000	71931000	2252600	2745000	2559900	0	0	0
GIVFEDVK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	2445200	2662600	2379600	44998	0	56345	0	0	0
GIVFEDVKVPK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	4460500	3502600	2537200	48902	57780	44200	0	0	0
GIVGVENVAELKK	PYGL; PYGL	P06737; E9PK47	PYGL_HUMA	Unmodified	778470	911520	880990	0	17686	0	0	0	0
GIVNEQFLLQR	ACADVL; ACADVL	P49748; J3QRJ8	ACADV_HUM	Unmodified	712460	697090	455230	0	0	0	0	0	0
GIVNEQFLLQR	ACADVL; ACADVL	P49748; J3QRJ8	ACADV_HUM	Deamidation (N)	582900	573070	0	0	0	0	0	0	0
GIVNGAAPELPVPTGGPAVGAR	ATP6V1B2; ATP6V1	P21281; E5RGH6	VATB2_HUM	Deamidation (N)	8960900	5014300	8557500	95710	142650	69867	17771	19476	39402
GIVSKDEITFVSGAPR	ITGA6; ITGA6	P23229; C9JXX7	ITA6_HUMA	Unmodified	1571500	1278200	1616600	12915	33728	0	0	0	0
GIVTDSVR	NID1	P14543	NID1_HUMA	Unmodified	2312500	2551700	0	0	214630	220860	0	90978	0
GIVVYTGDR	ATP1A1	P05023	AT1A1_HUM	Unmodified	4404200	3397600	3651600	309890	506930	381090	0	0	0
GIVVYTGDRTVMGR	ATP1A1	P05023	AT1A1_HUM	Oxidation (M)	0	0	0	0	842660	0	253380	200450	278940
GIYAYGFEKPSAIQQR	EIF4A3; EIF4A1; EIF	P38919; P60842;	IF4A3_HUMA	Unmodified	209740000	241250000	240860000	9386500	8609100	8474800	802170	882200	880150
GIYAYGFEKPSAIQQR	EIF4A3; EIF4A1; EIF	P38919; P60842;	IF4A3_HUMA	Methyl (KR)	4392900	3471400	3758800	98313	87469	100680	28655	22396	0
GIYFADMVSK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Oxidation (M)	9173300	9294200	8139300	602640	385520	507050	0	0	0
GIYQSLEGAVQAGQLK	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	287660	1061800	945970	0	0	0	0	0	0
GKAAVKDVEEEKFPTQLSR	SMU1	Q2TAY7	SMU1_HUMA	Unmodified	855300	615100	553100	68377	57063	58867	0	0	0
GKADAGKEGNNPAENGDAKTDQAQK	HMGN2	P05204	HMGN2_HUM	Deamidation (N)	496770	619380	996110	42067	41436	43741	0	0	0
GKDANPQER	SCIN	Q9Y6U3	ADSV_HUMA	Unmodified	98224	0	339280	0	0	0	10804	0	0
GKDGVGAVMDSMELER	GFM1; GFM1; GFM1	Q96RP9; C9JA25;	EFGM_HUM	2 Oxidation (M)	655670	565500	569830	26692	0	22254	0	0	0
GKDLIGVQNLLK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	2514800	1919200	3622800	53324	40019	0	0	0	0
GKDYLDQLTQILK	MAPK13	O15264	MK13_HUMA	Unmodified	1547900	1308900	1756200	0	0	0	0	0	0
GKDYYQTLGLAR	DNAJB1; DNAJB1	P25685; M0QXK(	DNJB1_HUM	Unmodified	753680	875560	881370	327360	230670	314080	0	120070	0
GKEDALVTK	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL_HUMA	Unmodified	3607900	2662400	4436900	422700	373100	351750	0	0	0
GKEDEGEEAASPMLQIQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	4180700	3004100	3484600	61765	348170	415570	0	0	0
GKEPKVSAGEPGSHPSPAPR	FARP1; FARP1; FAR	Q9Y4F1; A0A1B0	FARP1_HUM	Unmodified	562930	0	0	0	0	0	0	0	0
GKFEDMAK	SP100; HMGB1P1; H	P23497; B2RPK0;	SP100_HUMA	Oxidation (M)	3162900	3015200	3195300	255880	292680	311150	0	0	0
GKFEDMAK	SP100; HMGB1P1; H	P23497; B2RPK0;	SP100_HUMA	Oxidation (M);Methi	272210	736940	376950	48436	0	33948	0	0	0
GKFNTSDVSAIEK	HK1	P19367	HXK1_HUMA	Unmodified	1265000	1049500	865360	124220	0	177430	0	0	0
GKFQDNFEFVQWFK	MAPRE1	Q15691	MARE1_HUM	Unmodified	222630	0	215800	0	0	0	0	0	0
GKGASGSFVVVQK	HP1BP3; HP1BP3	Q5SSJ5; Q5SWC8	HP1B3_HUM	Unmodified	2525600	2615800	2321900	610120	127190	684300	0	0	0
GKGEGDLSQLSK	CWC15	Q9P013	CWC15_HUM	Unmodified	2845700	3333400	2982100	217120	0	231550	27609	0	0
GKGFSVVADTPELQR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	3575900	3410900	3094000	312770	0	281940	39713	39983	0
GKGGALAADIDIDTVGT	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUM	Unmodified	547240	0	0	0	0	0	0	0	0
GKGGEIQPVSVK	HSPE1; HSPE1	P61604; B8ZZL8	CH10_HUMA	Unmodified	5348500	6663000	5675100	173340	185230	180800	0	0	0
GKGGEIQPVSVK	HSPE1; HSPE1	P61604; B8ZZL8	CH10_HUMA	Methyl (KR)	3308900	2668800	2343600	85210	133880	108830	0	0	0
GKGIYLWDVEGR	OAT	P04181	OAT_HUMAN	Unmodified	898500	1294700	1393600	9921.8	0	0	0	0	0
GKGSLEVLNLKDVEEGDEKFE	SBDS; SBDS	Q9Y3A5; A0A087	SBDS_HUMA	Unmodified	1893100	384360	0	0	0	0	0	0	0
GKIEEDSEVLMMIK	CUTA; CUTA	O60888; C9IZG4	CUTA_HUM	2 Oxidation (M)	8149000	9568900	8441600	0	0	0	0	0	0
GKITDLANLSAANHDAAIFPGGFGAAK	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B_HUM	Deamidation (N)	6327100	3568200	4729500	0	0	0	0	0	0
GKLDDYQERMNKGER	CAPRIN1; CAPRIN1	Q14444; E9PLA9	CAPR1_HUM	Oxidation (M);4 M	0	0	0	175870	0	0	0	0	0
GKLDGNQDLIR	IDH2	P48735	IDHP_HUMA	Unmodified	8201000	8556400	7034800	626910	613010	550840	0	0	0
GKLDGNQDLIR	IDH2	P48735	IDHP_HUMA	Deamidation (N)	4682200	4207200	1017600	47896	38590	31809	0	0	0
GKLDVQFSGLTK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	1887100	1821200	1131200	0	0	110590	0	127210	151680
GKLDVQFSGLTKGDAVR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	0	0	0	0	0	0	32242	56258	86357
GKLEAIITPPPAK	MACROH2A1; MAC	O75367; D6RCF2	H2AY_HUMA	Unmodified	3005300	3467600	3591000	320220	360710	290950	0	0	0
GKLEEQRPER	TPT1; TPT1; TPT1; T	P13693; E9PJF7;	TCTP_HUMA	Unmodified	673200	154760	325610	30250	25159	20946	0	0	0
GKLLSNDEVTIK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	Deamidation (N)	1556900	1802800	1480800	10040	0	0	0	0	0
GKLLSNDEVTIK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	Unmodified	1105400	546720	591500	43036	44019	58398	0	0	0
GKNPEDLIWHTPEGISIKPLYSKR	MMUT	P22033	MUTA_HUM	Unmodified	500630	486070	478860	0	0	0	0	0	0
GKNVLINKDIR	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Unmodified	715180	594450	461380	19344	0	0	0	0	0
GKPAVAALGDLTDLPTYEHIQTALSSK	PMPCA	Q10713	MPPA_HUMA	Unmodified	7187100	2650900	2654800	0	0	0	0	0	0
GKPLALVEEIR	NTPCR; NTPCR	Q9BSD7; Q5TDF(	NTPCR_HUM	Unmodified	1078000	0	1261100	0	0	0	0	0	0
GKQLIVANAGDSR	PPM1G	O15355	PPM1G_HUM	Unmodified	883940	890100	1183500	112690	0	0	0	0	0
GKSETILSPPPEKR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	0	0	0	0	167610	199140	0	0	13983
GKSEVPEDLAGFIELFQTPSHTK	MKI67	P46013	KI67_HUMA	Unmodified	379890	307040	404670	0	0	0	0	0	0
GKSGPNTQNEDIEK	BMS1	Q14692	BMS1_HUMA	2 Methyl (KR);2 D	1759600	1871900	1662800	888150	994150	1045500	0	1277300	0
GKSPGIIFIPGYLSYMNGTK	ABHD10	Q9NUJ1	ABHDA_HUM	Oxidation (M);Deam	2252700	2831000	1804600	0	0	0	0	0	0
GKTEQQTADQLLAR	LAMC1	P11047	LAMC1_HUM	Unmodified	1528800	1931900	1871700	311460	175230	158220	0	100260	0
GKTSGTEPADFALPSSR	TP53BP1; TP53BP1;	Q12888; M0R142	TP53B_HUM	Unmodified	1049400	740050	1072300	63390	0	71160	29408	0	49868
GKTVPEELVKPEELSK	PRPF19; PRPF19; PR	Q9UMS4; F5GY5(	PRP19_HUM	Unmodified	6654900	7874300	6840000	107210	154150	208370	0	0	0
GKTVPEELVKPEELSKYR	PRPF19; PRPF19; PR	Q9UMS4; F5GY5(	PRP19_HUM	Unmodified	823030	1643900	1800600	172320	63600	0	0	0	0
GKVEIDQQQLTQQQLNGN	PHF6; PHF6	Q8IWS0; A0A0D6	PHF6_HUMA	Deamidation (N)	8574600	8125200	7010500	1783100	1750400	1910800	336500	0	0
GKVEYLLK	CBX1; CBX1; CBX1	P83916; C9JWS9;	CBX1_HUMA	Unmodified	3255900	3449600	3826500	49134	60966	71500	0	0	0
GKVKVGVNGFGR	GAPDH	P04406	G3P_HUMAN	Acetyl (Protein N-t	484850	551880	666650	42232	52154	45053	0	0	0
GLAAGDAIAEIR	DUSP23	Q9BVJ7	DUS23_HUM	Unmodified	921400	956400	1135500	45035	32320	0	0	0	0
GLAAGDAIAEIRR	DUSP23	Q9BVJ7	DUS23_HUM	Unmodified	3934600	3131200	3755300	80002	0	35633	0	0	0
GLAAGSAETLPANFR	PPFIA1; PPFIA1	Q13136; A0A2R8	LIPA1_HUM	Unmodified	994490	846590	1077100	0	0	0	0	0	0
GLAEAAGPR	FAM174A	Q8TBP5	F174A_HUM	Unmodified	3465600	4664200	0	0	90057	76611	0	10523	0
GLAFTDVDVDSIK	FN1	P02751	FINC_HUMA	Unmodified	0	627800	0	38055	31920	22287	0	0	0
GLAGAVSELLR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1204900	1280900	1540700	0	0	0	7437.3	0	0
GLAGEVGNK	COL6A2	P12110	CO6A2_HUM	Unmodified	425350	0	393630	45042	56251	0	147610	94608	108880
GLAGLGDVAEVR	PYGB	P11216	PYGB_HUMA	Unmodified	5464400	4721100	4877100	278690	243320	225400	41924	63935	45170
GLAGLGDVAEVRK	PYGB	P11216	PYGB_HUMA	Unmodified	3028900	3029600	2666300	142470	232130	119540	69476	8837.7	60187
GLAITFVSDENDAK	DDX39B; DDX39A;	Q13838; O00148;	DX39B_HUM	Unmodified	3343800	3885700	4101700	140830	91022	84227	0	29376	0
GLALSNSDVIR	UCHL5; UCHL5; UC	Q9Y5K5; Q5LJB0	UCHL5_HUM	Unmodified	1261300	398170	632610	14702	0	23080	0	0	0
GLANPEPAPEPK	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Unmodified	4913500	3799800	4323600	2794900	2250200	2477600	0	150290	0
GLAPEQPVTLR	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2_HUM	Unmodified	13898000	12398000	11966000	763230	709110	766190	107520	166770	231120
GLAPQNKPELQK	FAM107B; FAM107B	Q9H098; C9JP05;	F107B_HUM	Unmodified	590730	908940	953990	0	0	0	0	0	0
GLAPVQAYLHIPDIIK	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC_HUMAN	Unmodified	1556100	988880	928520	0	0	0	0	0	0
GLAYGLYLR	PITHD1	Q9GZP4	PITH1_HUM	Unmodified	2658500	2420000	2278100	55715	56620	51691	0	0	0
GLDARPEVTRNDVAPTLMSVPR	CDH1	P12830	CADH1_HUM	Oxidation (M);Deam	2241700	1858400	1992400	1791600	1471400	158950	726790	435140	320720
GLDARPEVTRNDVAPTLMSVPR	CDH1	P12830	CADH1_HUM	Oxidation (M)	0	0	404110	347430	288020	300310	0	54290	55624
GLDDTVSIASR	SPEN; SPEN	Q96T58; A0A669I	MINT_HUMA	Unmodified	1126300	789170	611000	211110	212700	0	0	0	0
GLDFALLQK	IK; IK; IK	Q13123; D6REL4	RED_HUMAN	Unmodified	1941200	1643300	1768800	25918	31618	25746	0	0	0
GLDFSDR	DCTN2; DCTN2; DC	Q13561; H0YHL1	DCTN2_HUM	Unmodified	851380	1019900	1176900	50176	58633	75955	0	0	0
GLDGAKKAVGGLGK	DCD	P81605	DCD_HUMA	Unmodified	0	0	0	71706	60554	0	0	0	0
GLDGIKELEIGQAGSQR	NCAPD2	Q15021	CND1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
GLDGVQGPDGPR	COL4A2; COL4A2; C	P08572; A0A087	CO4A2_HUM	Unmodified	276620	271600	347630	88273	0	0	0	28657	0
GLDIPKVQHVIHYQVPR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Unmodified	1330100	1289900	1500400	0	0	0	0	0	0
GLDIPSIK	DDX42; DDX42	Q86XP3; A0A0A(	DDX42_HUM	Unmodified	2625400	2383800	2112600	0	105880	86863	0	0	0
GLDISNVK	DDX3X; DDX3X; DI	O00571; A0A2R8	DDX3X_HUM	Unmodified	7512000	6632100	6515000	48393	32145	48802	0	0	0
GLDKLEENLPILQQPTEK	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3_HUM	Unmodified	2047700	1341800	1428900	0	0	0	0	0	0
GLDNTEFQGK	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4_HUM	Unmodified	958640	690020	874330	0	0	0	0	0	0
GLDNTEFQGKR	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4_HUM	Unmodified	983820	1211100	946610	62848	64693	45767	0	0	0
GLDPARVNVPVIGGHAGK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	1598400	800160	1073300	41937	60916	0	0	0	0
GLDPERIIGATDSSGELMFLMK	CBX3	Q13185	CBX3_HUMA	2 Oxidation (M)	13100000	6858900	7989900	0	0	0	0	0	0
GLDPERIIGATDSSGELMFLMK	CBX3	Q13185	CBX3_HUMA	2 Oxidation (M);M	0	1036200	1174000	0	0	0	0	0	0
GLDPVEILQER	SMARCA4; SMARC;	P51532; P51531;	SMCA4_HUM	Unmodified	2181800	3025200	2451600	22067	0	0	0	0	0
GLDPVEILQEREYR	SMARCA4; SMARC;	P51532; P51531;	SMCA4_HUM	Unmodified	4767100	3358300	3534100	0	0	0	0	0	9725.2

GLDPYNVLAPK	COX5B	P10606	COX5B	HUM	Unmodified	7709800	7853900	8742000	516450	511960	456550	72132	63496	64027
GLDVEDVK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUM	Unmodified	16173000	14572000	16362000	707630	621730	797240	0	0	0
GLDWVKEEAPDILCLQETK	APEX1; APEX1; APE	P27695; A0A0C4I	APEX1	HUM	Unmodified	1858300	0	982400	0	0	0	0	0	0
GLEAAQIKELEELRQTVK	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	1027300	1185200	763730	0	0	0	0	0	0
GLEEENAQLR	PBXIP1	Q96AQ6	PBIP1	HUM	Unmodified	0	0	221830	386030	315680	628780	0	0	0
GLEEFFDDPKNWGQEK	MRPL47	Q9HD33	RM47	HUM	Unmodified	0	395300	612650	0	0	0	0	0	0
GLEEIPVFDISEK	RIF1; RIF1	Q5UIP0; H7C2B5	RIF1	HUM	Unmodified	1275900	978000	967550	0	0	0	0	0	0
GLEEPEMDPK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Oxidation (M)	5820200	4782600	3561300	208150	0	0	0	0	0
GLEESLGMVAQALNR	OVCA2	Q8WZ82	OVCA2	HUM	Oxidation (M)	223100	145390	206420	0	0	0	0	0	0
GLEETVAK	KIF5B	P33176	KINH	HUM	Unmodified	2514500	1672800	2005000	0	0	0	0	0	0
GLEHVTVDDLVAEITPK	ENY2; ENY2	Q9NPA8; E5RHX	ENY2	HUM	Unmodified	10302000	6561800	8417500	11154	0	0	0	0	0
GLEISGTFTHR	AP2B1; AP2B1	P63010; A0A087	AP2B1	HUM	Unmodified	1369200	782470	1365200	77080	0	115960	0	0	0
GLEISGTFTR	AP1B1	Q10567	AP1B1	HUM	Unmodified	1009400	573660	780920	80656	76001	58605	19942	0	33021
GLELLAASEAPRDPPGQAKPR	RPS19BP1; RPS19BI	Q86WX3; F8WFE	AROS	HUM	Unmodified	2939700	2809100	1706100	149080	128110	136620	0	0	0
GLEMEGWEVVER	DNAJC11; DNAJC11	Q9NVH1; B1AK2	DJC11	HUM	Oxidation (M)	963670	735930	1448000	0	0	0	0	0	0
GLEPEKIIGATDSCGDLMFLMK	CBX5	P45973	CBX5	HUM	2 Oxidation (M)	3548000	2582400	2721400	0	0	0	0	0	0
GLEPERIIGATDSSGELMFLMK	CBX1; CBX1; CBX1	P83916; J3KS05;	CBX1	HUM	2 Oxidation (M)	20669000	18964000	4317200	25982	0	0	0	0	0
GLEPSQSTAAK	DDX24; DDX24	Q9GZR7; G3V525	DDX24	HUM	Unmodified	660350	711960	998660	0	0	0	0	0	0
GLERNDSWGSFDLR	NUFIP2	Q7Z417	NUFP2	HUM	Deamidation (N)	1224200	504070	588180	0	0	0	0	0	0
GLESDVAELR	LMNB2	Q03252	LMNB2	HUM	Unmodified	10353000	9223400	5031800	986130	973200	841070	0	0	0
GLESDVAELRAQLAK	LMNB2	Q03252	LMNB2	HUM	Unmodified	1807200	1872000	1729200	0	0	0	0	0	0
GLESLPPLRPQQNPVLPVAGER	MARS1	P56192	SYMC	HUM	Unmodified	12881000	13772000	13127000	30595	19524	0	0	0	0
GLETFSQLVWK	HEXA; HEXA; HEX/	P06865; H3BU85;	HEXA	HUM	Unmodified	1014800	529220	860250	0	0	0	0	0	0
GLEVTAYSPLGSSDR	AKR1A1	P14550	AK1A1	HUM	Unmodified	7625600	6226900	6574200	959880	777730	788180	188500	163990	138130
GLEVTDDSPK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	1390400	1440400	0	0	80833	90050	0	0	0
GLFDEYGSK	HSP90B2P; HSP90B	Q58FF3; P14625;	ENPLL	HUM	Unmodified	15466000	3304100	13125000	356820	378350	435580	0	0	0
GLFEVNPWK	APMAP; APMAP	Q9HDC9; H0Y51	APMAP	HUM	Unmodified	2165500	2752000	1941800	10652	0	8640.3	0	0	0
GLFEVNPWKR	APMAP; APMAP	Q9HDC9; H0Y51	APMAP	HUM	Unmodified	4676000	5174600	4371500	35019	39716	33962	0	0	0
GLFGVPELSAPEGFHIAQEK	MIPEP	Q99797	MIPEP	HUM	Unmodified	1859100	935480	1958600	0	0	0	0	0	0
GLFIIDGK	PRDX2	P32119	PRDX2	HUM	Unmodified	23593000	21251000	22272000	66700	30382	117140	0	0	0
GLFIIDGKGVLR	PRDX2	P32119	PRDX2	HUM	Unmodified	49638000	61011000	58077000	300090	302150	165790	93958	40674	52085
GLFIIDGKGVLR	PRDX2	P32119	PRDX2	HUM	Methyl (KR)	3193100	3464500	3746600	0	6631.1	0	0	0	0
GLFIIDPNGVIK	PRDX3	P30048	PRDX3	HUM	Deamidation (N)	35537000	34779000	34689000	14869	16886	0	0	0	0
GLFIIDPNGVIKHLSVNDLPVGR	PRDX3	P30048	PRDX3	HUM	2 Deamidation (N)	1026900	0	930800	0	0	0	0	0	0
GLFIIDPNGVIKHLSVNDLPVGR	PRDX3	P30048	PRDX3	HUM	Deamidation (N)	208120	81487	127630	0	0	0	0	0	0
GLFLPEDENLREK	ASPH	Q12797	ASPH	HUM	Unmodified	1149400	1192400	1902100	88789	97351	97596	0	0	0
GLFTGLTPR	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2	HUM	Unmodified	7591100	5598100	7662800	232860	226940	216790	0	24477	0
GLFVQALPSS	RFX1	P22670	RFX1	HUM	Unmodified	416140	504520	0	149270	155110	162140	0	0	38071
GLGAAEFGGAAGNVEAPGETFAQR	POLR2M	Q6EEV4	GL1AD	HUM	Unmodified	1660900	1288400	0	129250	79682	39405	40898	25293	32742
GLGAGAGAGEESPATSLPR	PGRMC2	O15173	PGRC2	HUM	Unmodified	6236800	7266800	6158000	447950	373800	484080	0	0	27554
GLGATTHPTAAVK	HK2; HK2	P52789; E9PB90	HXK2	HUM	Unmodified	5790000	0	0	0	0	0	0	0	0
GLGDCLVK	SLC25A6; SLC25A5	P12236; P05141	ADT3	HUM	Unmodified	6287000	6268900	3040000	34894	0	0	0	0	0
GLGEFTPLYPMLFGGGQER	SCLY; SCLY; SCLY;	Q96I15; H7C277;	SCLY	HUM	Oxidation (M)	2212000	913510	3010500	0	0	0	0	0	0
GLGEHEMEEDEEDYESSAK	LNPEP	Q9UJQ6	LCAP	HUM	Oxidation (M)	728850	590080	669120	63805	52751	82938	0	0	0
GLGEISAASEFK	NCAM1; NCAM1; N	P13591; A0A087	NCAM1	HUM	Unmodified	1659000	1316900	1155500	0	0	0	0	0	0
GLGFSIAGGK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	1280400	1652600	1703300	33534	0	0	0	0	0
GLGGEVPGSHQGPDPYR	TMEM205; TMEM2(	Q6UW68; K7ELQ	TM205	HUM	Unmodified	8838400	8259900	7723200	0	525450	603390	60540	0	0
GLGGLIVVSK	ASRGL1	Q7L266	ASGL1	HUM	Unmodified	1431400	1095100	1217200	0	24071	0	0	0	0
GLGHQVATDALVAMEK	RTCB	Q9Y3I0	RTCB	HUM	Oxidation (M)	7076300	6353300	5704400	440090	348870	344980	36268	0	0
GLGLDDALEPR	RUVBL2; RUVBL2;	Q9Y230; A0A1W	RUVB2	HUM	Unmodified	19491000	17927000	22297000	1703700	1628200	1751100	99542	85664	64446
GLGLDESGLAK	RUVBL1	Q9Y265	RUVB1	HUM	Unmodified	9927400	10211000	8768900	404140	379500	488800	0	0	0
GLGLEPTALAR	IRGQ	Q8WZA9	IRGQ	HUM	Unmodified	5542100	4365500	5061100	55505	43615	52049	0	0	0
GLGLGANLTEAQALTPTGPSR	GPKOW	Q92917	GPKOW	HUM	Unmodified	1014200	554050	1124400	0	0	0	0	0	0
GLGLSPDLVVCR	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	1004500	1397500	1473900	52314	32988	31510	22418	10369	16354
GLGMEVFPVDLIYRPWK	CNOT1	A5YKK6	CNOT1	HUM	Oxidation (M)	363850	260700	417900	0	0	0	0	0	0
GLGSTVQEIDLTGVK	ISOC1; ISOC1	Q96CN7; D6RGE	ISOC1	HUM	Unmodified	3952800	2980900	4008000	0	0	0	0	0	0
GLGTDDNTLIR	ANXA4; ANXA4	P09525; Q6P452	ANXA4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
GLGTDEDAIISVLAYR	ANXA4; ANXA4; AN	P09525; B4E152;	ANXA4	HUM	Unmodified	3468500	1182100	2154300	0	0	0	0	0	0
GLGTDEDSLIEIICSR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	1113800	469640	639100	11780	0	0	0	0	12114
GLGTDEDTIIDIITHR	ANXA6; ANXA6	P08133; E5RK69	ANXA6	HUM	Unmodified	2394700	1685600	1738400	0	0	0	0	0	0
GLGTDEDTLIEILASR	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1	HUM	Unmodified	0	0	677450	0	0	0	0	0	0
GLGTGTLVIAESR	CLNS1A; CLNS1A; C	P54105; E9PMI6;	ICLN	HUM	Unmodified	969760	853190	0	0	0	0	0	0	0
GLGWVQFSSEEGLR	SLIRP; SLIRP; SLIRI	Q9GZT3; G3V4X(	SLIRP	HUM	Unmodified	5557100	3023500	3343300	0	0	0	0	0	0
GLGYAQYLPK	AFG3L2	Q9Y4W6	AFG32	HUM	Unmodified	1130500	617170	838020	0	0	0	14303	0	0
GLHHKILLANFLAQTEALMR	GPI; GPI	P06744; A0A2U3	G6PI	HUM	Oxidation (M)	915350	530070	574730	0	0	0	0	0	0
GLHQSIEEFR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	3676100	2825900	3416000	81935	72662	80890	0	0	0
GLHSQNFTQALLER	LAS1L; LAS1L; LAS	Q9Y4W2; A0A7I2	LAS1L	HUM	Unmodified	918760	358830	428530	0	0	0	0	0	0
GLIEIISNAAEYENIPIR	SNRNP200	O75643	U520	HUM	Unmodified	78873	0	0	0	0	0	0	0	0
GLIENPALLR	NDUFB4	O95168	NDUB4	HUM	Unmodified	8481700	8574700	7283300	225160	205690	201080	26195	32517	32240
GLIEVKTDEFPR	ACAT2	Q9BWD1	THIC	HUM	Unmodified	1483700	1381300	1269400	50911	34931	30943	0	0	0
GLIPVFALGR	CPSF3; CPSF3	Q9UKF6; G5E9W	CPSF3	HUM	Unmodified	2022100	2317300	2745900	10990	0	10169	0	0	0
GLIQQFTTITGASESVGK	UBXN7; UBXN7	O94888; H7BYF4	UBXN7	HUM	Unmodified	894970	699930	1558900	0	0	0	0	0	0
GLIVYQLENQPSEFR	RAE1; RAE1; RAE1	P78406; E9PQ57;	RAE1L	HUM	Unmodified	2348000	2399100	2684100	0	0	0	0	0	0
GLIVYQLENQPSEFRR	RAE1; RAE1; RAE1	P78406; E9PQ57;	RAE1L	HUM	Unmodified	6689600	0	1835300	0	0	0	0	0	0
GLKEGIPALDNFLDKL	EEF2	P13639	EF2	HUM	Unmodified	11538000	5837800	8611500	0	0	0	0	0	0
GLKEGIPALDNFLDKL	EEF2	P13639	EF2	HUM	Deamidation (N)	4220900	7387600	10172000	0	0	0	0	0	0
GLKNVFDEAILAALEPPEPK	CDC42	P60953	CDC42	HUM	Unmodified	0	645600	691240	0	0	0	0	0	0
GLKNVFDEAILAALEPPEPK	CDC42	P60953	CDC42	HUM	Deamidation (N)	285080	403160	336940	0	0	0	0	0	0
GLKVDLAQR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	3844700	3985300	4142800	38602	49597	60530	0	0	0
GLKYELISETGGSHDKR	STRBP; ILF3	Q96SB9; Q12906	STRBP	HUM	Unmodified	11165000	14458000	17717000	755900	582270	536770	0	0	0
GLKYELISETGGSHDKR	STRBP; ILF3	Q96SB9; Q12906	STRBP	HUM	Methyl (KR)	1272500	495860	1798800	0	0	0	0	0	0
GLKYQEGGVESAFHK	CAPG; CAPG; CAPG	P40121; E7ENU9;	CAPG	HUM	Unmodified	733030	687620	1595800	111970	0	0	0	0	0
GLLAQGLRPESPPPAGPLLNGAPAGESPQPK	NIBAN2	Q96TA1	NIBA2	HUM	Deamidation (N)	10777000	8340000	10852000	0	43304	0	0	0	0
GLLEEQYFELTQESKK	ROCK1; ROCK1	Q13464; A0A0U1	ROCK1	HUM	Unmodified	0	1271100	0	0	0	0	0	0	0
GLLEESSFATLFPK	KRR1	Q13601	KRR1	HUM	Unmodified	645680	374200	549380	0	0	0	0	0	0
GLLEFEHQR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	10561000	13072000	16855000	237420	215610	231200	0	0	0
GLLEFEHQRAPR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	9532100	12452000	9215000	1251800	1790000	1462500	0	0	0
GLLGDAPNDPR	CSTF2T; CSTF2; CS	Q9H0L4; P33240;	CSTFT	HUM	Unmodified	3043200	3061500	3406100	257180	222930	270320	38175	50904	0
GLLHPQQLHLLSR	ZC3H14; ZC3H14; ZI	Q6PJT7; G3V411;	ZC3HE	HUM	Unmodified	1875400	1376000	1430600	16109	0	0	0	0	0
GLLKPGLNVVLEGPK	EBNA1BP2; EBNA1I	O99848; H7C2Q8	EBP2	HUM	Unmodified	6300700	4550900	3236800	0	0	0	0	0	0
GLLLDTSR	HEXA; HEXA; HEX/	P06865; H3BU85;	HEXA	HUM	Unmodified	12135000	10107000	0	0	0	0	0	0	0
GLLLPPPMKELR	EIF5B; EIF5B	O60841; A0A087	IF2P	HUM	Oxidation (M)	1946900	1414500	2487900	0	0	66258	0	0	0
GLLLSRENEDQVVK	ILVBL; ILVBL	A1L0T0; M0R026	HACL2	HUM	Unmodified	511100	639290	414070	113940	63957	105340	0	0	0
GLLLYGPPGTGK	KATNAL2; KATNAI	Q8IYT4; K7EM02	KATL2	HUM	Unmodified	17342000	13645000	17229000	0	0	0	0	22561	0
GLLNGASQK	SF3B3	Q15393	SF3B3	HUM	Deamidation (N)	1113300	964280	457200	0	0	22720	0	0	0
GLLPEELTPLILATQK	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA	HUM	Unmodified	703780	658340	1217200	0	0	0	0	0	0
GLLPGCVYHVQLK	NOMO1; NOMO3; N	Q15155; P69849;	NOMO1	HUM	Unmodified	750090	0	0	0	0	0	0	0	0
GLLPQLLGVAPEK	SLC25A13	Q9UJS0	CMC2	HUM	Unmodified	1145600	2156500	1270700	0	0	0	0	0	0
GLLQLQWK	TOMM70	O94826	TOM70	HUM	Unmodified	2500500	1106700	1638700	0	0	0	0	0	0
GLLQQIGDALSSQR	MGAT1; MGAT1; M	P26572; D6RA48;	MGAT1	HUM	Unmodified	0	378000	442190	0	0	0	0	0	0
GLLQSGQIPGR	SNRPA1; SNRPA1; S	P09661; H0YLR3;	RU2A	HUM	Unmodified	0	2207700	0	69461	88371	91955	0	0	0
GLLQSGQIPGRER	SNRPA1; SNRPA1; S	P09661; H0YLR3;	RU2A	HUM	Unmodified	780580	726520	827320	0	0	0	0	0	0
GLLRLNDMASTDDGTLQSR	RANBP3; RANBP3;	Q9H6Z4; B7Z7F3	RANB3	HUM	Oxidation (M);Deai	1266200	903460	1143900	0	0	0	0	0	0
GLLSDSMTDVPVDTGVAAR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Oxidation (M)	2395100	2380600	1397800	138510	29311	76471	0	0	0
GLLSSLDHTSIR	CYC1	P08574	CY1	HUM	Unmodified	7773700	7356200	8479700	53947	0	0	10449	13935	0
GLLSSLDHTSIRR	CYC1	P08574	CY1	HUM	Unmodified	1676100	1232300	1667600	0	0	0	0	0	0
GLLVDRPSETK	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU	HUM	Unmodified	1518700	0	1548300	138100	186690	106000	0	0	0
GLLYDSDEEDEERPAR	MCM2	P49736	MCM2	HUM	Unmodified	797990	789470	887840	0	0	0	0	0	0
GLMEEDAEPIFEDVMMSSR	STAG1; STAG1	Q8WVM7; Q68D	STAG1	HUM	3 Oxidation (M)	1251600	0	1473800	0	0	0	0	0	0
GLMPDGTSR	ADH5; ADH5	P11766; H0YAG8	ADHX	HUM	Oxidation (M)	3083800	2803000	2830700	285150	112360	151920	0	0	0
GLNGQKPLGAAEPITVK	ELAVL3	Q14576	ELAV3	HUM	Deamidation (N)	2505400	2329700	1573700	0	0	0	0	0	0
GLNISAVR	EIF4B; EIF4B; EIF4B	P23588; F8VP89;	IF4B	HUM	Unmodified	4769300	4258000	4980300	68475	73045	51170	0	0	0
GLNSESMTEETLKR	CPS1; CPS1	P31327; A0A669	CPSM	HUM	Oxidation (M);Deai	0	0	233800	0	0	0	0	0	0
GLPDNISSVLNKLVVVK	UGP2; UGP2; UGP2;	Q16851; A0A7I2	UGPA	HUM	Unmodified	166610	0	136270	0	0	0	0	0	0
GLPFEAENKHVIDFFK	RBM12	Q9NTZ6	RBM12	HUM	Unmodified	0	889350	772160	0	0	0	0	0	0
GLPFQANAQDINFFAPLKPVR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Unmodified	200390	0	144610	0	0	0	0	0	0
GLPFRATENDIANFFSPLNPIR	HNRNPH3	P31942	HNRH3	HUM	Deamidation (N)	234550	313950	369340	0	0	0	0	0	0
GLPFRATENDIANFFSPLNPIR	HNRNPH3	P31942	HNRH3	HUM	2 Deamidation (N)	471430	724430	434830	0	0	0	0	0	0
GLPGEPGPR	COL5A1	P20908	CO5A1	HUM	Unmodified	321010	581280	526430	930520	961600	1097200	788050	0	884430
GLPGEVLGAQPGPR	COL4A2; COL4A2	P08572; A0A3B3	CO4A2	HUM	Unmodified	821700	658380	681160	420490	463670	473640	489650	403410	71766
GLPLPLVKPHINFMAAKL	IDE; IDE; IDE; IDE; I	P14735; A0A7I2	IDE	HUM	Oxidation (M);Deai	0	496750	354180	0	0	0	0	0	0
GLPLGSAVSSPVLFSPVGR	NUP133	Q8WUM0	NU133	HUM	Unmodified	920170	954110	841710	0	0	0	0	0	0
GLPLLVALLDHPR	ARVCF; ARVCF; AR	O00192; E9PDC3;	ARVC	HUM	Unmodified	83881	111220	0	0	0	0	0	0	0
GLPPSMER	RBMX; RBMX	P38159; H3BUY5	RBMX	HUM	Oxidation (M)	8238200	8315800	9189400	938710	929780	0	99558	0	0
GLPRELAEAVAGGR	UBA2; UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUM	Unmodified	15932000	2384200	3656200	272880	185460	237150	0	14700	0
GLPSDYGRPLSFPPPR	INPPL1; INPPL1; INI	O15357; H0YFZ4;	SHIP2	HUM	Unmodified	2165700	1603600	2559500	0	29984	0	0	0	0
GLPSPYNMSSAPGSR	DSP	P15924	DESP	HUM	Oxidation (M)	3566500	0	0	37160	0	0	0	0	0
GLPSPYNMSSAPGSR	DSP	P15924	DESP	HUM	Oxidation (M);Deai	4089200	3212400	2325700	72796	92919	112480	0	0	0
GLPTGDSPLGPMTHRGEEDWLYER	PNPO; PNPO	Q9NVS9; J3QQZ9	PNPO	HUM	Oxidation (M)	3447000	0	2580700	24654	0	0	32792	0	0
GLPTTTQR	PABPC4; PABPC4; P	H0Y5F5; A0A7I2	H0Y5F5	HUM	Unmodified	7538100	1332100	7491900	888650	179210	1069000	0	35003	43057
GLPVGSPPESIISPHHTSEDSELIAEAK	UTRN; UTRN	P46939; Q5T097	UTRN	HUM	Unmodified	1324100	0	1108900	0	0	0	0	0	0
GLPWQSSDQDIAR	ESRP1; ESRP1; ESRI	Q6NXG1; H0YBR	ESRP1	HUM	Unmodified	1730700	2076500	2065000	0	0	0	0	0	0

GLPWSCSADEVMR	HNRNPH2	P55795	HNRH2_HUM	Oxidation (M)	1576600	1899200	1711500	78017	57715	72475	0	0	0
GLPWSCSADEVQR	HNRNPH1; HNRNPH	P31943; D6R9D3;	HNRH1_HUM	Unmodified	8549200	7702400	7442700	34983	273370	320670	0	42014	0
GLPYKATENDIYNFFSPLNPVR	HNRNPF	P52597	HNRPF_HUM	2 Deamidation (N)	2519600	2502700	2405400	0	0	0	0	0	0
GLPYKATENDIYNFFSPLNPVR	HNRNPF	P52597	HNRPF_HUM	Deamidation (N)	2958000	0	2130500	0	0	0	0	0	0
GLPYRATENDIYNFFSPLNPVR	HNRNPH1; HNRNPH	P31943; H0YBD7	HNRH1_HUM	2 Deamidation (N)	1052200	623200	679030	0	0	0	0	0	0
GLPYRATENDIYNFFSPLNPVR	HNRNPH1; HNRNPH	P31943; H0YBD7	HNRH1_HUM	Deamidation (N)	673800	621830	393560	0	0	0	0	0	0
GLQATQLAR	TSTD1; TSTD1	Q8NFU3; R4GNF9	TSTD1_HUM	Unmodified	26466000	21595000	24164000	2184000	2531900	2734500	137950	126460	78991
GLQDVLRTNLGPK	CCT6A; CCT6B	P40227; Q92526	TCPZ_HUM	Deamidation (N)	360420	251730	261510	0	0	0	0	0	0
GLQDVLRTNLGPK	CCT6A; CCT6B	P40227; Q92526	TCPZ_HUM	Unmodified	0	432070	433280	0	0	0	0	0	0
GLQEVGLPLHR	UMPS	P11172	UMPS_HUM	Unmodified	1440800	1791000	2161200	0	30207	35825	0	0	0
GLQFVWR	MAN2B2; MAN2B2;	Q9Y2E5; E9PCD7	MA2B2_HUM	Unmodified	181020	205420	523350	14306	29370	16010	0	0	0
GLQKEEVVLLTHGDSVDKVADGFK	GMPS	P49915	GUAA_HUM	Unmodified	896640	1230300	1507000	0	0	0	0	0	0
GLQKEEVVLLTHGDSVDKVADGFKVVAR	GMPS	P49915	GUAA_HUM	Unmodified	1260800	1300700	1207700	0	0	0	0	0	0
GLQLGQTSTATIQPSQQAQIVTR	TOX4; TOX4	O94842; A0A669	TOX4_HUM	Unmodified	4208500	2406200	2907200	0	0	0	0	0	0
GLQLSALALAPAEVQVLR	CNNM3	Q8NE01	CNNM3_HUM	Unmodified	261230	0	189480	0	0	0	0	0	0
GLQNGVPGLR	L2HGDH; L2HGDH;	Q9H9P8; G3V5S1	L2HDH_HUM	Deamidation (N)	1146800	0	791370	0	0	0	0	0	0
GLQPLKLDYR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	1681600	1800600	1937300	57829	18288	72952	0	0	12766
GLQQQNSDWYLK	IQGAP1; IQGAP1	P46940; A0A0J9Y	IQGA1_HUM	Deamidation (N)	835830	862050	717000	0	0	23831	0	0	0
GLQSYYAVAHAVTER	SMARCA4; SMARC;	P51532; A0A2R8	SMCA4_HUM	Unmodified	1431200	1550600	889970	0	0	0	0	0	0
GLQTPVKDAGGGTGR	SYNM; SYNM; SYNI	O15061; A0A075	SYNEM_HUM	Unmodified	0	0	0	0	0	0	0	100110	79436
GLQTSQDAR	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUM	Unmodified	2226500	22373000	11472000	0	0	1032800	0	0	0
GLQTVHINENFAK	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1_HUM	Unmodified	1513500	1577400	1732700	35464	0	0	0	0	0
GLRDLEEEIQMLK	ERC1; ERC1; ERC1;	Q8IUD2; K7EPP6	RB6I2_HUM	Oxidation (M)	763110	1262000	270030	0	0	0	0	0	0
GLSAEPGWQAK	CHGA	P10645	CMGA_HUM	Unmodified	2186000	2113300	1782400	0	0	0	0	0	0
GLSEAAGQTAQMLER	KIF4A	O95239	KIF4A_HUM	Oxidation (M)	743960	804130	968270	0	0	0	0	0	0
GLSEDTTEETLK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	11469000	10842000	11749000	411750	303790	402430	0	0	0
GLSEDTTEETLKESFDGSVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	282360000	277450000	259860000	3153500	1982600	1111400	398560	57819	108520
GLSEDTTEETLKESFDGSVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	15130000	9178000	14411000	105360	0	17908	0	0	0
GLSEDTTEETLKESFDGSVRAR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	0	0	0	183250	119810	15840	278750	42245	206910
GLSEGRTFEMSDFIVDTR	FLNB; FLNB	O75369; E7EN95	FLNB_HUM	Oxidation (M)	1539700	1837300	0	274080	42648	138110	197100	115110	165300
GLSFSEATASNLVK	ADD3	Q9UEY8	ADDG_HUM	Unmodified	0	286940	0	104240	88806	76726	0	0	0
GLSGAQDPFPGPAPVPVEVVQK	WDR46; WDR46	A0A140T9L0; A0	A0A140T9L0	Unmodified	2614400	2651700	2956900	28465	0	14764	0	0	0
GLSGTAVLDLR	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB_HUM	Unmodified	0	1476500	1729300	271210	249750	173830	41248	30979	36961
GLSPAQADSQFLENAKR	EPB41L2; EPB41L2;	O43491; A0A2R8	E41L2_HUM	Unmodified	0	375690	632960	126560	0	0	0	0	0
GLSQSALPYR	RPS13; RPS13; RPS1	P62277; J3KMX5	RS13_HUM	Unmodified	1241300	636110	1883100	295110	299930	422760	0	0	0
GLSTEDATSAYISK	ACBD7	Q8N6N7	ACBD7_HUM	Unmodified	946310	0	0	0	0	0	0	0	0
GLSTESILIPR	LCN1; LCN1P1	P31025; Q5VSP4	LCN1_HUM	Unmodified	402730	770440	288500	492200	557650	515830	41510	39378	0
GLSVPIYMVFPR	VPS26C; VPS26C; V	O14972; A8MY26	VP26C_HUM	Oxidation (M)	0	1192600	0	0	0	0	0	0	0
GLSVREILAELTGR	PDHA1; PDHA1; PDI	P08559; Q5JPU0;	ODPA_HUM	Unmodified	544980	0	141000	0	0	0	0	0	0
GLTEMEDTPDMLRAKNATQILNEK	NEB; NEB; NEB	P20929; H7BZD5	NEBU_HUM	Oxidation (M);2 M	0	0	0	0	53847	0	65398	128250	124970
GLTGPIGPPGPAGANGEK	COL2A1	P02458	CO2A1_HUM	Deamidation (N)	5845700	3721300	3365000	2848300	2941000	2968900	2662500	2814700	1793200
GLTLAPGLSPARPLFGSDFEK	IRF2BP1	Q8IU81	I2BP1_HUM	Unmodified	1174400	1153500	0	18068	0	0	0	0	19027
GLTMLDHEQVTPEDPGAQFLIR	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1_HUM	Oxidation (M)	3544300	3477400	4310200	0	0	0	0	0	0
GLTPSQIGVILR	RPS13; RPS13	P62277; J3KMX5	RS13_HUM	Unmodified	716080	828000	861400	44983	52100	50828	0	0	0
GLTSVINQK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Unmodified	29070000	28890000	41305000	154120	147630	178910	43866	0	23639
GLTSVINQK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Deamidation (N)	3170700	2647900	3177700	0	0	0	0	0	0
GLTSVINQKLKDDEVAQLKK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Deamidation (N)	1024600	0	572200	0	0	0	0	0	0
GLTSVINQKLKDDEVAQLKK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Unmodified	2010000	1775300	1570000	0	0	0	0	0	0
GLVAVITGGASGLGLATAER	HSD17B10; HSD17B	Q99714; Q5H928	HCD2_HUM	Unmodified	3319100	1468800	2602200	0	0	0	0	0	0
GLVDSDKGISLR	LIG1; LIG1	P18858; F5GZ28	DNLI1_HUM	Unmodified	526400	595070	657990	0	0	0	0	0	0
GLVDSFNKGLER	CRELD1; CRELD1;	Q96HD1; A0A669	CREL1_HUM	Unmodified	882780	682570	808470	121770	103740	92354	0	0	20746
GLVEDTLR	PLEC	Q15149	PLEC_HUM	Unmodified	1335500	0	1424100	187460	279400	112380	22772	0	39451
GLVEEYVEKVPNPSLK	MCRIP1; MCRIP1;	C9JLW8; I3L2L5;	MCRI1_HUM	Unmodified	9591900	6023800	4782300	0	0	0	0	0	0
GLVEPVDVVNADGTQTVNYVPSR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUM	Unmodified	4230900	5491000	3815000	23499	14180	0	93337	47013	23723
GLVEPVDVVNADGTQTVNYVPSR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUM	Deamidation (N)	0	1281700	0	0	0	0	31569	0	0
GLVGIEFK	DSP	P15924	DESP_HUM	Unmodified	3570400	3416500	3414200	24973	32902	27497	0	0	0
GLVHAAGPGQDSGSQAGSPPTR	CCDC51	Q96ER9	MITOK_HUM	Unmodified	993490	1098100	933960	0	0	0	0	0	0
GLVPEDDTKEK	SF3A1; SF3A1	Q15459; H7C1L2	SF3A1_HUM	Unmodified	1731800	1311400	1208500	114980	143660	135740	0	0	0
GLVQALQTK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	3230200	3146200	3220800	44923	60635	42031	0	0	0
GLVSSDELAK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	2530100	2942700	2731800	233310	0	0	0	0	0
GLVVDMDGFEEER	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC_HUM	Oxidation (M)	667570	680500	0	0	0	0	0	0	0
GLVVPSGGGR	NUP50; NUP50	Q9UKX7; B0QY2	NUP50_HUM	Unmodified	3644800	2650900	3179900	0	29018	96168	0	0	0
GLVVPVIR	DLST	P36957	ODO2_HUM	Unmodified	19696000	17286000	20035000	682150	617670	665100	97758	0	130520
GLVVPVIRNVEAMNFADIER	DLST	P36957	ODO2_HUM	Oxidation (M)	467290	1239400	1083400	0	0	0	0	0	0
GLVVPVIRNVEAMNFADIER	DLST	P36957	ODO2_HUM	Oxidation (M);2 De	1308300	832510	0	0	0	0	0	0	0
GLVYETSVLDPDEGIR	CS; CS; CS; CS; CS;	O75390; F8VPA1;	CISY_HUM	Unmodified	11317000	9223000	9040000	149850	102480	119960	0	0	0
GLVYETSVLDPDEGIRFR	CS; CS; CS; CS; CS;	O75390; F8VPA1;	CISY_HUM	Unmodified	26049000	25699000	22250000	0	0	0	57403	13381	0
GLYDGPVHEVMVPAKPGSGAPAR	DPYSL4; DPYSL4	O14531; Q5T0Q6	DPYL4_HUM	Oxidation (M)	0	5000400	10675000	0	0	0	0	0	0
GLYGKVEGLDPDNVR	GPKOW	Q92917	GPKOW_HUM	Unmodified	0	0	3298000	0	0	0	0	0	0
GLYPAPLKIIDVVK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	3346000	3478800	3326700	12540	0	0	0	0	0
GLYPAPLKIIDVVK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Methyl (KR)	1101200	899990	1129600	0	0	0	0	0	0
GMADQDGLKPTIDKPSEDSPPLEMLGPR	ITIH1; ITIH1	P19827; H7C5I0	ITIH1_HUM	2 Oxidation (M)	0	4442500	5145600	0	34515	0	0	0	0
GMAFLHTLEPLIPR	ILK; ILK	Q13418; A0A0A0	ILK_HUMAN	Oxidation (M)	2300600	2942300	1864200	0	0	0	0	0	0
GMAPYGPLAASSLLSQQYAASLGLEK	LSM14B	A0A0C4DFV2	A0A0C4DFV2	Oxidation (M)	0	363810	512040	0	0	0	0	0	0
GMAQEER	DDX39A	O00148	DX39A_HUM	Oxidation (M)	153280	455540	0	0	0	0	0	0	0
GMFEVLEPLHAMMER	MTOR; MTOR	P42345; B1AKP8	MTOR_HUM	3 Oxidation (M)	934150	762320	1087900	41539	23426	18412	0	0	0
GMFTAEDLR	ATP6V1F	Q16864	VATF_HUMA	Oxidation (M)	3710100	3925900	3111500	204170	0	294210	31412	0	0
GMGGAMDLVSSAK	OXCT1; OXCT1	P55809; E9PDW2	SCOT1_HUM	2 Oxidation (M)	1336600	1108400	1126000	70741	73371	71944	0	0	0
GMGGHGYGGAGDASSGFHGGHFVHMR	HNRNPH3	P31942	HNRH3_HUM	2 Oxidation (M)	4248800	7808700	6799700	0	0	0	0	0	0
GMGGLFSVGETTAK	AFG3L2; AFG3L2	Q9Y4W6; K7EP5	AFG32_HUM	Oxidation (M)	2150700	2939800	3066500	92382	106130	71524	0	0	0
GMGLGFTSSMR	RSRC2	Q7L4I2	RSRC2_HUM	2 Oxidation (M)	1369700	971800	0	75261	0	53486	0	0	0
GMGLSLMR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	2 Oxidation (M)	1557200	1570600	1287000	0	0	0	0	0	0
GMGPGTPAGYGR	SFPQ	P23246	SFPQ_HUM	Oxidation (M)	13247000	14261000	12618000	668950	592860	1003400	180530	0	0
GMITFESIEK	PLGRKT	Q9HBL7	PLRKT_HUM	Oxidation (M)	4421000	4434500	10668000	303230	267710	127610	0	0	0
GMITFESIEKAR	PLGRKT	Q9HBL7	PLRKT_HUM	Oxidation (M);Met	701310	761930	576390	0	0	0	0	0	0
GMITVTDPDLIEK	UBA6; UBA6	A0AVT1; H0YS8	UBA6_HUM	Oxidation (M)	2541000	2115100	2296300	64166	67164	55523	0	0	0
GMITVTDPDLIEKSNLNR	UBA6; UBA6	A0AVT1; H0YS8	UBA6_HUM	Oxidation (M)	2302800	1014700	857650	0	0	0	0	0	0
GMLHQDHITFAMLLAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	2 Oxidation (M)	1952500	2254800	1390300	0	0	0	0	0	0
GMLKDNAMLEYLK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	2 Oxidation (M);M	850700	783210	1550000	0	0	0	17051	0	0
GMLREDAVLEYLK	MSN	P26038	MOES_HUM	Oxidation (M)	3012100	2661800	2381800	0	0	0	8526	0	0
GMMDEEGNQFVAYFLPVEETLK	PAF1; PAF1	Q8N7H5; B4DGJ5	PAF1_HUMA	2 Oxidation (M)	289300	228130	284840	0	0	0	0	0	0
GMNFSVVVFDTAPTGHTLR	GET3	O43681	GET3_HUMA	Oxidation (M);Deai	116950	1966500	2503800	0	0	0	0	0	0
GMQLMHANAQR	IFI30	P13284	GILT_HUMA	2 Oxidation (M)	2912200	2644400	2976800	58753	0	0	0	0	0
GMQLMHANAQR	IFI30	P13284	GILT_HUMA	2 Oxidation (M);De	1432500	2218800	2244700	0	0	0	0	0	0
GMSEALKVPSSTVEYLKK	AAMDC; AAMDC; A	Q9H7C9; E9PNP3	AAMDC_HUM	Oxidation (M)	1073800	676160	855450	0	0	0	0	0	0
GMSLNLEPDNVGVVVFGNDKLIK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Oxidation (M);Deai	2354300	1829100	1957400	0	0	0	0	0	0
GMSVSDLADKLSTDDLNSLIAHAHR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Oxidation (M)	3172800	2638500	2940000	0	0	0	0	0	0
GMSVSDLADKLSTDDLNSLIAHAHRR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Oxidation (M)	1378900	1362200	1320400	0	0	0	0	0	0
GMSVYGLGR	CNN3	Q15417	CNN3_HUMA	Oxidation (M)	3249300	3939700	5370100	0	0	562720	0	0	0
GMTLVTPLQLLLFASKK	DHX9	Q08211	DHX9_HUMA	Oxidation (M)	1058300	705720	949510	0	0	0	0	0	0
GMTSEDSIGLTPGEK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	Oxidation (M)	1160200	1300900	1200900	0	0	0	0	0	0
GMTTVDDFFQGTK	DPYSL3	Q14195	DPYL3_HUM	Oxidation (M)	922400	636820	806000	0	0	41358	0	0	0
GMTVYGLPR	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1_HUMA	Oxidation (M)	191830	0	0	0	0	0	3534700	3271200	7131800
GMTYDALHVFDWIK	ABHD12; ABHD12;	Q8N2K0; A0A5F9	ABD12_HUM	Oxidation (M)	4252100	3804600	3507400	0	0	0	0	0	0
GMVFGIPDGVLELVPQR	HSPG2	P98160	PGBM_HUM	Oxidation (M)	279410	168990	337110	0	0	0	0	0	0
GMVPFVFVGTK	FXR1; FMR1; FMR1;	P51114; Q06787;	FXR1_HUMA	Oxidation (M)	1067000	1329700	1457600	0	0	0	0	0	0
GMVSAYPR	MCM4; MCM4; MC9	P33991; A0A3B3	MCM4_HUM	Oxidation (M)	4791100	5945000	642750	0	0	0	0	0	0
GMYDGPVFDLTTTPK	DPYSL3; DPYSL3	Q14195; H0YBT4	DPYL3_HUM	Oxidation (M)	473350	0	299800	59784	0	0	45093	0	0
GMYDGPVYEVPATPK	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	Oxidation (M)	8442000	7735200	7374000	108940	75110	179820	0	0	0
GNAGGIQPDLLISLTAPK	NAXE	Q8NCW5	NNRE_HUM	Unmodified	1278900	1553500	1281700	0	9903.9	0	13162	0	0
GNAGGIQPDLLISLTAPK	NAXE	Q8NCW5	NNRE_HUM	Deamidation (N)	2025900	1763300	2234900	0	0	0	0	0	0
GNAMVEEGHFAAEDVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M);Deai	783430	666780	711720	0	0	0	0	0	0
GNAMVEEGHFAAEDVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	0	869740	788360	16014	0	0	0	0	0
GNAPEGLPQLMEVVR	CNOT1; CNOT1	A5YKK6; H3BM2	CNOT1_HUM	Oxidation (M)	443820	0	0	0	0	20087	0	0	0
GNDISSGTVLSDYVGSGPPK	PEBP1	P30086	PEBP1_HUM	Unmodified	2285200	942540	1259600	93680	87043	92199	0	0	0
GNDISSGTVLSDYVGSGPPK	PEBP1	P30086	PEBP1_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
GNDPLTSSPGR	MCM2; MCM2; MC9	P49736; F8WDM5	MCM2_HUM	Unmodified	624020	511830	470830	0	0	0	0	0	0
GNDTFVTLDEILR	MRE11; MRE11; MR	P49959; F5H742;	MRE11_HUM	Deamidation (N)	315340	146330	229170	0	0	0	0	0	0
GNDVAFHFNPR	LGALS3; LGALS3	P17931; G3V3R6	LEG3_HUMA	Deamidation (N)	783970	668130	1212100	85146	0	90338	0	0	0
GNEEAQIFRPLKFNTTSVIK	EFTUD2	Q15029	US5I_HUMA	Deamidation (N)	1437600	840730	1511300	0	0	0	0	0	0
GNEIVLSAGSTPR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Deamidation (N)	1571100	1238600	0	132580	71845	104330	0	0	0
GNELQSKAVPTPLQHPSR	N/A	N/A	N/A	Deamidation (N)	0	0	0	0	864490	757900	0	0	1411800
GNETSFVPSRR	MYH11	P35749	MYH11_HUM	Unmodified	0	0	0	0	0	0	205550	272430	244630
GNETSFVPSRR	MYH11	P35749	MYH11_HUM	Deamidation (N)	0	0	0	0	13218	0	0	713260	566580	34300
GNFGGSFAGSFGGAGGHAPGVAR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM_HUM	Unmodified	49845000	46200000	46710000	1200200	1142700	668320	111310	95025	102840
GNFGGSFAGSFGGAGGHAPGVAR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM_HUM	Deamidation (N)	16981000	17934000	20573000	289400	234000	47467	0	45207	51266
GNFLSRENK	CDC14A	A0A2R8YDJ8	A0A2R8YDJ8	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
GNFNYIEFTR	MYL12A; MYL12B;	P19105; O14950;	ML12A_HUM	Unmodified	7815000	6659200	9496200	388120	400180	344190	0	92376	0
GNFNYIEFTR	MYL12A; MYL12B;	P19105; O14950;	ML12A_HUM	Deamidation (N)	4499800	5197400	4895200	193210	172030	195320	46959	65702	29983
GNFNYVEFTR	MYL9	P24844	MYL9_HUM	Unmodified	0	0	0	0	0	0	306520	274640	279440
GNFNYVEFTR	MYL9	P24844	MYL9_HUM	Deamidation (N)	0	0	0	25774	0	0	79174	0	85655
GNGTSMISLIIPPKDQISR	ETF1; ETF1	P62495; D6RCB3	ERF1_HUMA	Oxidation (M);Deai	946010	1487500	1539400	0	0	0	0	0	0

GNILIPGINEAVAAVTEEEHK	CNDP2	Q96KP4	CNDP2_HUM	Unmodified	3321300	2614100	2552600	0	0	0	0	0	0
GNILIPGINEAVAAVTEEEHK	CNDP2	Q96KP4	CNDP2_HUM	Deamidation (N)	275440	339540	0	0	0	0	0	0	0
GNLAGLTLR	CLSTN1; CLSTN1	O94985; Q5SR54	CSTN1_HUM	Unmodified	668510	480540	448970	0	0	20902	0	0	0
GNLANVIR	SLC25A4; SLC25A6;	P12235; P12236;	ADT1_HUM	Unmodified	11807000	9375200	9838500	32191	0	40050	0	0	0
GNLEFNDVHFSYPSRANVKILK	ABCB4	P21439	MDR3_HUM	2 Methyl (KR)	0	528610	502270	0	0	0	0	0	0
GNLFREQQRTLYSMSYMNK	RSPH10B2; RSPH10	B2RC85; P0C881	R10B2_HUM	2 Oxidation (M);M	2641400	444100	3498200	0	0	0	0	0	0
GNLGAGNGNLQGPR	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	Deamidation (N)	10187000	11518000	11835000	830090	818910	81919	0	0	0
GNLGAGNGNLQGPR	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	2 Deamidation (N)	6120900	7655800	8837200	135030	0	102230	0	0	0
GNLGAGNGNLQGPR	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	3 Deamidation (N)	647330	669700	1035300	0	0	0	0	0	0
GNLGVYQETR	CD2BP2	O95400	CD2B2_HUM	Unmodified	0	4611100	2677100	167780	0	0	0	0	0
GNLYWTDWNRDNPK	NID1	P14543	NID1_HUMA	Unmodified	1160300	520560	801470	0	22076	0	0	0	0
GNNVLYISTQK	LSM6	P62312	LSM6_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
GNPECDGKEDCSDGSDEKDCDCGLR	ST14	Q9Y5Y6	ST14_HUMA	Unmodified	206360	0	0	0	0	0	0	0	0
GNPGFSGLNLNIPILSSLGSSAPSESHPSDFQR	RPRD2	Q5VT52	RPRD2_HUM	Unmodified	190190	57006	133180	0	0	0	0	0	0
GNPTVEVDLFTSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUM	Unmodified	50230000	38793000	49734000	518620	570230	496160	331510	330580	339690
GNPTVEVDLFTSKGLFR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUM	Unmodified	9404100	2255300	7857700	10742	0	0	0	0	0
GNPTVEVDLFTSKGLFR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA_HUM	Methyl (KR)	6092600	0	4357800	10018	0	0	0	0	0
GNPTVEVDLHTAK	ENO3; ENO3; ENO3;	P13929; E5RI09;	ENOB_HUM	Unmodified	850210	1154200	613440	0	26403	0	0	0	0
GNPTVEVDLYTAK	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Unmodified	4896000	40228000	50329000	0	0	0	0	0	0
GNPTVEVDLYTAKGLFR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Methyl (KR)	6092600	2572500	0	0	0	0	0	0	0
GNPTVEVDLYTAKGLFR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Unmodified	0	2891800	0	0	0	0	0	0	0
GNQIFVR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A0	MYEF2_HUM	Unmodified	876070	872630	862040	0	0	0	0	0	0
GNQLQEFAAMLMPHQK	COPS4; COPS4; COP	Q9BT78; D6RAX	CSN4_HUMA	2 Oxidation (M)	851770	0	416900	0	0	0	0	0	0
GNSIIMLEALER	SNRPG; SNRPGP15;	P62308; A8MWD	RUXG_HUM	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
GNSIIMLEALERV	SNRPG; SNRPGP15;	P62308; A8MWD	RUXG_HUM	Oxidation (M);Deai	2367000	655580	1477000	0	0	0	0	0	0
GNSLFFR	MTCH2	Q9Y6C9	MTCH2_HUM	Unmodified	854240	1372300	925460	64371	65415	62523	0	0	7200.2
GNSLFFR	MTCH2	Q9Y6C9	MTCH2_HUM	Deamidation (N)	2475300	2305200	2702400	209790	207770	167190	11490	13965	11902
GNSLQEILER	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Deamidation (N)	0	0	1239100	0	0	0	0	0	0
GNTAAYLLYAFTR	RARS1	P54136	SYRC_HUMA	Unmodified	211480	309390	172350	0	0	0	0	0	0
GNTPATGTTQGK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	361310	419730	432870	79064	78677	74508	0	0	0
GNTTSCCVSSSPKLRR	CCNY	Q8ND76	CCNY_HUM	Acetyl (Protein N-t	0	235710	0	0	0	0	0	0	0
GNVDEELSK	PPP1R2; PPP1R2; PP	P41236; E7EMN6	IPP2_HUMA	Unmodified	0	3555100	2214900	165890	147410	0	0	0	0
GNVFSSPTAAGTPNKETAGLK	CALD1; CALD1; CA	Q05682; E7EX44;	CALD1_HUM	Unmodified	824060	1494800	1408800	162300	0	80498	0	0	38684
GNVGFVFTK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0_HUMA	Unmodified	3409500	1790700	2731200	0	0	0	0	0	0
GNVQVVIPFLTESYSSSQDPPEK	UBA1	P22314	UBA1_HUMA	Unmodified	1103600	864870	944130	0	0	0	0	0	0
GNVVPSPLPTR	CARHSP1; CARHSP	Q9Y2V2; H3BSW	CHSP1_HUM	Unmodified	5057800	4784000	5358500	67527	65838	41105	0	0	0
GNWAHSGFPEIAFGR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	2007500	2855400	1658700	0	0	0	0	0	0
GNWDEQFDKENTEER	SERPINB6; SERPINE	P35237; A0A087	SPB6_HUMA	Unmodified	623950	996430	612760	0	0	0	0	0	0
GPAAAAAGYGCPLLSDLTLSPVPR	AHDC1	Q5TGY3	AHDC1_HUM	Unmodified	207670	268200	497800	0	0	0	0	0	0
GPAAQGSAAAPAEPK	UBQLN2	Q9UHD9	UBQL2_HUM	Unmodified	1697300	1566600	1607800	119640	0	114310	0	0	0
GPADSLSTAAGAAELSAEGAGK	IRF2BP2	Q7Z5L9	IF2BP2_HUM	Unmodified	1299800	0	0	40841	77131	0	0	0	0
GPAEESSSWR	EIF3A	Q14152	EIF3A_HUM	Unmodified	965880	785570	665310	0	0	0	0	0	0
GPAERASGVSAAAPGER	NELFB	A0A5H1ZRP4	A0A5H1ZRP4	Unmodified	0	0	0	121810	109370	112760	13369	19918	0
GPAFVNPLIPESPEEEELFR	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9_HUM	Unmodified	816400	928140	1141600	0	0	0	0	0	0
GPAGDATVASEKESVM	SLC1A5; SLC1A5	Q15758; M0QXM	AAAT_HUM	Oxidation (M)	1576200	1527500	1514600	0	0	0	0	0	0
GPAGPQGPR	COL1A1	P02452	CO1A1_HUM	Unmodified	48192000	91441000	116430000	122470000	109300000	214970000	237470000	275570000	237630000
GPAGPQGPRGDKGETGEQGDR	COL1A1	P02452	CO1A1_HUM	Unmodified	6737900	5734900	6789600	6387200	5313400	5742700	1340600	992810	1932300
GPAGPSGPAGK	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	24844000	22490000	17289000	16469000	19702000	0	16485000	12736000	7510900
GPAGPSGPAGKDGR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	12897000	10188000	13901000	17072000	18996000	17254000	9825300	5531800	5962700
GPAGPSGPAGKDGR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Methyl (KR)	0	259600	446370	273750	235590	209140	1034600	784100	929570
GPAKNSEPEEVIPSRLDIR	YARS1; YARS1	P54577; A0A6Q8	SYYC_HUMA	Deamidation (N)	2742700	3068400	3131700	72825	92293	82189	0	0	0
GPALTPIRDEEWGGHSPR	LSR; LSR	Q86X29; S4R3V8	LSR_HUMAN	Unmodified	3851000	3645600	3118200	235350	237210	94346	18267	0	0
GPAPPLAFR	PRR36	Q9H6K5	PRR36_HUM	Unmodified	774300	755890	819250	48879	67687	74425	0	0	0
GPASQFYITPSTSLSPR	YLPM1; YLPM1	P49750; H0YIQ2	YLPM1_HUM	Unmodified	1108900	4018300	2945400	215710	153840	160320	24430	21667	27481
GPASTPTYSPAPTQPAPR	CC2D1A; CC2D1A	Q6P1N0; K7EJY5	C2D1A_HUM	Unmodified	953330	1097500	1334800	80951	117370	84566	0	0	0
GPASVPSVGK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF_HUMA	Unmodified	5022900	4819300	4670300	317680	157490	320030	25621	21910	0
GPAYGLSR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Unmodified	16208000	20785000	18951000	252820	279040	271930	130650	144700	0
GPAYGLSREVQQK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Unmodified	666990	566150	0	0	0	0	0	0	0
GPDALTLLEYTETR	CDK5RAP3; CDK5R	Q96JB5; J3QRM1	CK5P3_HUM	Unmodified	894880	1429500	1344300	0	0	0	0	0	0
GPDFTPAFADFGR	EIF4G3; EIF4G3; EIF	O43432; A0A0A0	IF4G3_HUMA	Unmodified	1207200	1338300	1156400	42735	44561	55921	0	0	0
GPDGLTAFEATDNQAIK	MTPN; MTPN	P58546; C9JL85	MTPN_HUM	Unmodified	4963000	3991200	4536500	275910	238130	372600	0	0	0
GPDNSMGFGAER	CSDE1; CSDE1	O75534; E9PLT0	CSDE1_HUM	Oxidation (M)	479920	946700	352390	136730	128970	80276	0	0	0
GPDNSMGFGAER	CSDE1; CSDE1	O75534; E9PLT0	CSDE1_HUM	Oxidation (M);Deai	1374800	1741600	1176100	118080	56622	0	0	0	0
GPDWILGEIK	NDUFV1; NDUFV1;	P49821; G3V0I5;	NDUV1_HUM	Unmodified	652400	604840	0	0	0	0	0	0	0
GPEDTAQLAHAVLAK	STXBP2; STXBP2; S	Q15833; M0R0D4	STXB2_HUM	Unmodified	0	2046500	1254400	12527	10871	0	0	0	0
GPEEKKDCEVVMMIGLPGAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M)	7047200	6329600	5821500	0	0	250050	0	0	0
GPEEKKDCEVVMMIGLPGAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M);M	0	668310	649580	60759	55452	0	0	0	0
GPEGPQGQR	COL5A2	P05997	CO5A2_HUM	Unmodified	0	0	0	594680	457130	592640	144000	52332	99328
GPELLTMWFGESEANVR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	808360	744260	953660	0	0	0	0	0	0
GPELPLVPVKR	SNRNP40	Q96DI7	SNR40_HUM	Unmodified	0	0	0	0	0	48483	0	0	0
GPESESEDHRASGEVR	PRKDC	P78527	PRKDC_HUM	Unmodified	2764500	1891000	1699200	150580	113880	0	0	0	0
GPEVQLVAHSPWLK	C4A; C4B; C4B_2; C	P0C0L4; P0C0L5;	CO4A_HUMA	Unmodified	377650	251160	383270	0	0	0	0	0	0
GPFADENFKLR	PPIH; PPIH; PPIH; PI	O43447; A0A7Z9	PPIH_HUMA	Unmodified	0	0	972450	0	0	70296	0	0	0
GPFLLGIK	ACO1	P21399	ACOC_HUM	Unmodified	1368300	1252000	1303900	0	0	0	0	0	0
GPFLVALGK	PDLIM5; PDLIM5; P	Q96HC4; H0Y8Y7	PDLI5_HUM	Unmodified	719640	0	864610	318260	299530	174300	37814	38371	37573
GPFTDVVTTNLK	VAPA; VAPB; VAPB	Q9P0L0; O95292;	VAPA_HUM	Unmodified	9600400	0	8841100	130090	96563	0	0	0	0
GPGAPGLAHLQESQAGSDTDVEEGKAPQAVPLEK	MDC1	Q14676	MDC1_HUM	Unmodified	0	0	3326100	0	0	0	0	0	0
GPGASGEQPEPGEAAAGGAAEEAR	ACBD3	Q9H3P7	GCP60_HUM	Unmodified	2615300	3305800	2513500	0	0	0	0	0	0
GPGDLEAPSNLVISER	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Unmodified	0	0	0	127110	109180	100620	0	0	0
GPGITGTKGDPTGAGPEASLEPGADSVSMQAFSR	RBM10	P98175	RBM10_HUM	Oxidation (M)	1286800	2860700	2238200	0	0	0	0	0	0
GPGLAVQSGDK	RBM14	Q96PK6	RBM14_HUM	Unmodified	1461600	556160	1417200	29521	0	0	0	0	0
GPGLAVQSGDKTK	RBM14	Q96PK6	RBM14_HUM	Unmodified	538800	514320	419870	0	0	0	0	0	0
GPGLEKTGVAVNKPAEFTVDAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	0	0	559400	242950	226930	251320	634310	704570	547980
GPGLGSTQGQTIALPAQGLIEFR	PURA	Q00577	PURA_HUM	Unmodified	823160	868170	772810	0	0	0	0	0	0
GPGLLESPSIFNFTADR	LARP4B	Q92615	LAR4B_HUM	Deamidation (N)	157260	122930	158750	0	0	0	0	0	0
GPGLLESPSIFNFTADR	LARP4B	Q92615	LAR4B_HUM	Unmodified	328190	445820	329010	0	0	0	0	0	0
GPGLYYVDSEGNR	PSMB5	P28074	PSB5_HUMA	Unmodified	764960	796210	778270	0	0	0	0	0	0
GPGNPVPGPLAPLPDYMSEEK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Oxidation (M)	1365600	329970	1391800	0	0	0	0	0	0
GPGNPVPGPLAPLPDYMSEEKLQEK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Oxidation (M)	1309400	790730	0	0	0	0	0	0	0
GPGPLQER	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Unmodified	31425000	32069000	27709000	1170000	1353000	1500000	181260	0	224520
GPGPLQERSLFEK	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Unmodified	1725400	1681700	1220400	0	0	0	0	0	0
GPGVDVNLKGPR	AHNAK	Q09666	AHNK_HUM	Unmodified	0	251890	0	85607	98186	104480	21673	28602	38472
GPGVGLLGISK	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2_HUM	Unmodified	998280	1092400	1082500	20316	0	18344	0	0	0
GPGYGIMSIR	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA_HUM	Oxidation (M)	1574600	1156200	1446900	123040	97647	140790	86900	49844	66180
GPGYGIMSIRVDGNDVFAVYNATK	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA_HUM	Oxidation (M);Deai	377240	431680	325480	0	0	0	0	0	0
GPGYPQAEALLAEAMLK	SH3GL2	Q99962	SH3G2_HUM	Oxidation (M)	0	1939200	2035200	0	0	0	0	0	0
GPHPSQGPIPFQQQK	WDR33	Q9C0J8	WDR33_HUM	Unmodified	1121000	993310	1193300	0	0	104590	16010	0	53429
GPIAFWAR	MAGED2; MAGED2	Q9UNF1; Q5H900	MAGD2_HUM	Unmodified	4131200	4029500	2480600	23033	34273	0	0	0	0
GPIGSIGPK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	1313200	1262700	494310	0	173990	183120	0	652050	686760
GPIKFNVWDTAGQEK	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN_HUMA	Unmodified	7054300	6659300	5484400	47751	54781	40434	0	0	0
GPIKFNVWDTAGQEK	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN_HUMA	Methyl (KR)	625340	600220	509450	0	0	0	0	0	0
GPIKFNVWDTAGQEK	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN_HUMA	Deamidation (N)	247390	271000	206470	0	0	0	0	0	0
GPILMELQTYR	PDHA1; PDHA2	P08559; P29803	ODPA_HUM	Oxidation (M)	1398100	2929100	2912700	0	0	0	0	0	0
GPILSFASTR	RFC5; RFC5; RFC5;	P40937; F5H5S0;	RFC5_HUMA	Unmodified	804530	923400	716450	0	0	0	0	0	0
GPIPSGMQGPSPINMGAVVPQGSR	CSTF2; CSTF2	P33240; E7EWR4	CSTF2_HUM	2 Oxidation (M)	1656400	2746100	1678200	0	102780	112940	0	0	0
GPIPSGMQGPSPINMGAVVPQGSR	CSTF2; CSTF2	P33240; E7EWR4	CSTF2_HUM	2 Oxidation (M);De	0	963030	1299100	45567	54466	0	0	0	0
GPIPSLFSGQHGPPPYGDSR	DIDO1	Q9BTC0	DIDO1_HUM	Unmodified	1662200	0	0	0	0	0	0	0	0
GPIQILNR	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2_HUMA	Unmodified	805280	676610	831480	0	0	89549	0	0	0
GPKGPEEKKDCEVVMMIGLPGAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M)	0	1559800	19486000	59017	0	0	0	0	0
GPLAELPSAR	TNKS1BP1; TNKS1B	Q9C0C2; E9PKE7	TB182_HUM	Unmodified	456040	657550	518640	97329	114930	110560	12031	9554.5	0
GPLAGLGPGSTPR	NUP133	Q8WUM0	NU133_HUM	Unmodified	598670	570510	0	73829	50325	47901	0	0	13245
GPLATGGIK	TMA7; hCG_201476	Q9Y2S6; A0A024	TMA7_HUM	Unmodified	3534500	2394600	3343200	0	434780	0	0	0	0
GPLDLAAVWMQGR	RMI2; RMI2	Q96E14; A0A3B3	RMI2_HUMA	Oxidation (M)	713540	365140	489250	0	0	0	0	0	0
GPLEPSEPAVVAAAR	MPG; MPG	P29372; A2IDA3	3MG_HUMA	Unmodified	6279900	5656600	7379400	248480	221920	250310	0	0	0
GPLEYVPSAK	MVP	Q14764	MVP_HUMA	Unmodified	0	0	0	99914	87064	132210	0	0	0
GPLLEEQALTK	FAM98B	Q52LJ0	FA98B_HUM	Unmodified	1225900	1440500	1259600	0	45117	37947	0	0	0
GPLMMYISK	EEF2	P13639	EF2_HUMAN	2 Oxidation (M)	6786700	6387800	5982800	38783	7005.2	0	0	0	0
GPLPAAPPVAPER	RTN4; RTN4	Q9NQC3; F8W9I4	RTN4_HUMA	Unmodified	26887000	25395000	28437000	1292200	1145400	1181600	606600	575460	594190
GPLPAGTILK	HCFC1; HCFC1	P51610; A6NEM2	HCFC1_HUM	Unmodified	3236100	1268800	2163300	0	16301	45847	0	0	0
GPLPLSSQHR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	3028100	3433600	3386900	0	61256	0	0	0	0
GPLPLSSQHRGDADQASNILASFGLSAR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	2124200	868460	1211300	0	0	0	0	0	0
GPLPSNGVMHVDECVEFHR	CYFIP1; CYFIP1	Q7L576; H0YL50	CYFP1_HUM	Unmodified	8078400	9334600	6040000	5589300	5191300	5706200	1531900	0	3244500
GPLQSVQVFGR	RPS16; RPS16; RPS1	P62249; M0R210;	RS16_HUMA	Unmodified	1216400	1034900	1136300	77460	73547	54018	0	0	0
GPLTFTTR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14_HUM	Unmodified	1279100	844820	1758400	0	0	0	0	24282	0
GPLTQVTDR	PNKP; PNKP; PNKP;	Q96T60; M0QYI1	PNKP_HUMA	Unmodified	651220	577810	475020	41333	0	0	0	32813	37507
GPLTVEETPR	MDC1; MDC1	Q14676; A2AB05	MDC1_HUM	Unmodified	2201400	2294300	2432400	39427	0	0	0	0	0
GPLTVEETPRVQGETQPQR	MDC1; MDC1	Q14676; A2AB05	MDC1_HUM	Unmodified	2179800	1852500	1611700	52627	0	0	0	0	0
GPLVNASLR	PRMT5; PRMT5; PR	O14744; H0YJX6;	ANM5_HUM	Unmodified	1789100	1744800	2170700	51054	43518	43274	0	0	0
GPMTGSSGGDRGGFK	TAF15; TAF15; TAF	Q92804; A0A075	RBP56_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
GPMTGSSGGDRGGFKNFGGHR	TAF15; TAF15; TAF	Q92804; A0A075	RBP56_HUM	Oxidation (M);2 M	652200	549470	712480	0	0	0	0	0	0
GPMVSAQESQAQAILQQAR	COL5A1	P20908	CO5A1_HUM	Oxidation (M)	0	0	144180	418640	560340	505680	273830	0	222210
GPPASSPAPAPK	ZYX; ZYX; ZYX	Q15942; H0Y2Y8	ZYX_HUMAN	Unmodified	728640	722560	727510	176900	214950	243800	49892	0	0

GPPDFSSDEEREPTPVLGSGAAAAGR	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B	HUM	Unmodified	27411000	32116000	27838000	349670	323740	298960	68908	112520	0
GPPGESGAAGPTGPIGSR	COL1A2; COL1A2	P08123; A0A087	COL1A2	HUM	Unmodified	0	0	286700	204990	360890	375440	21508	21953	20231
GPPIEDAIASSDVLETASK	HBS1L; HBS1L; HBS	Q9Y450; E9PS53;	HBS1L	HUM	Unmodified	1090600	0	1373900	0	0	0	0	0	0
GPPNPNVEYIPFDEMKER	PPP4R2; PPP4R2; PP	Q9NY27; F8WDK	PPP4R2	HUM	Oxidation (M)	2964600	3489900	1719300	52947	49676	43656	0	0	0
GPPPPPGDENREMDDPSVGPK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Oxidation (M)	3907300	4143900	3643200	101960	98128	65982	0	0	0
GPPPPPGDENREMDDPSVGPK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Oxidation (M);Deam	3251200	3538300	2432000	36648	39006	56186	0	0	0
GPPPPPGDENREMDDPSVGPKIPQALEK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Oxidation (M)	5423200	4154000	4276100	0	0	0	0	0	0
GPPPSWGR	SRSF3	P84103	SRSF3	HUM	Unmodified	2659400	2815300	2389000	148890	137960	249780	0	0	40561
GPPPSYGGSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	9673100	10076000	10487000	823880	516260	712750	0	0	0
GPPPSYGGSSRYDDYSSSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	1226000	1207200	1040300	67378	56090	70803	28887	41009	35388
GPPPSYGGSSRYDDYSSSRDGYGGSR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	1516700	1132600	2488700	91173	165910	0	0	33282	0
GPPPTDPYGRPPPYDR	CPSF6; CPSF6	Q16630; F8WJN3	CPSF6	HUM	Unmodified	1500500	1209500	1102500	144130	122730	0	0	0	0
GPPQEEEEEEDEEEEATKEDAEAPGIR	HDGF	P51858	HDGF	HUM	Unmodified	2087400	1644200	2019500	0	91839	0	0	0	0
GPPQEEEEEEDEEEEATKEDAEAPGIRDHESL	HDGF	P51858	HDGF	HUM	Unmodified	6071200	6347300	10966000	0	0	0	0	0	0
GPPVRLFTEEELAR	NENF	Q9UMX5	NENF	HUM	Unmodified	3954500	4068200	4198800	324600	181870	137510	12841	0	0
GPQAGLGPR	EIF4G1; EIF4G1; EIF	C9J2Z7; E7EX73;	C9J2Z7	HUM	Unmodified	1775200	1800400	1563100	188510	181210	205260	0	10673	35692
GPQLFHMDPSGTFVQCDAR	PSMA5	P28066	PSA5	HUM	Oxidation (M)	1459700	1722900	1837700	0	0	39020	0	17074	0
GPQSLFNAPR	NOP2; NOP2; NOP2;	P46087; F5H5X6;	NOP2	HUM	Unmodified	436030	409070	0	0	0	0	0	0	22150
GPQVIAGGR	TSPYL5	Q86VY4	TSYL5	HUM	Unmodified	6641000	6689500	7171200	165830	123940	115050	0	11502	6357.5
GPRGDQGPVGR	COL1A2; COL1A2	P08123; A0A087	COL1A2	HUM	Unmodified	1352900	1457900	1315100	1964700	1184400	1329800	1210400	932300	67022
GPRPIREAGEQGDIEPR	G3BP1; G3BP1; G3B	Q13283; A0A7Z	G3BP1	HUM	Unmodified	11783000	12874000	9045800	235230	343700	249320	68038	31394	31497
GPRPWEDPDLLQGR	COX16; COX16; SY	Q9P0S2; A0A087	COX16	HUM	Unmodified	346200	219780	199640	0	0	0	0	0	0
GPSAAGEQEPDKESGASVDEVAR	METAP2; METAP2;	P50579; F8VSC4;	MAP2	HUM	Unmodified	2278200	0	1807900	163140	96234	26862	0	0	0
GPSFPEPLREEQDLER	UROD; UROD; UROI	P06132; A0A494	DCUP	HUM	Unmodified	1581500	2499300	1413300	44796	0	50741	0	0	0
GPSGLLVYQGK	CYB5R3; CYB5R3	P00387; B1AHF3	NB5R3	HUM	Unmodified	1881600	2225400	1601300	146020	142400	143740	0	0	0
GPSGPQGIR	COL1A2; COL1A2	P08123; A0A087	COL1A2	HUM	Unmodified	27746000	28065000	14087000	25007000	24324000	30582000	31818000	31906000	34043000
GPSLNPVLDYDHGSR	MATR3; MATR3; M	P43243; D6REM6	MATR3	HUM	Unmodified	7067800	7410700	7258100	258830	226930	320130	38908	19438	31083
GPSPFSPVQLHQLR	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	Unmodified	1482200	2026300	0	0	0	0	0	0	0
GPSSVEDIK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Unmodified	93632000	85484000	88368000	1736100	1525000	1829400	12125	0	0
GPSSVEDIKAK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Unmodified	23436000	18766000	18248000	494330	446820	544070	0	24184	0
GPSSVEDIKAKMQASIEK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Oxidation (M)	16390000	13226000	12730000	869220	335390	480310	57373	62034	53240
GPSSVEDIKAKMQASIEK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Oxidation (M);Metl	2975500	5643600	5266400	0	64244	85129	0	0	0
GPSSVEDIKAKMQASIEKGGSLPK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Oxidation (M)	0	1602600	1120600	0	105510	65934	0	0	0
GPSVFPLAPCSR	IGHG2; IGHG4; IGH	P01859; P01861;	IGHG2	HUM	Unmodified	1021900	1104700	1124400	130180	212930	182040	0	0	0
GPSVFPLAPSSK	IGHG1; IGHG1; IGH	P01857; A0A0A0	IGHG1	HUM	Unmodified	7792500	7823800	9546100	680610	668070	645230	360160	307170	280920
GPSWDPFR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	685520	780840	619550	27101	21293	28488	0	0	0
GPSWDPFRDWYPHSR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	5637200	12398000	10283000	0	0	0	0	0	0
GPTEADELMK	G6PD	P11413	G6PD	HUM	Oxidation (M)	604360	1188300	648170	0	60908	96603	0	0	0
GPTEADELMKR	G6PD	P11413	G6PD	HUM	Oxidation (M)	4208900	4665700	3862900	210880	220110	299780	0	0	0
GPTEQLVSPEPEVHDIER	PPM1A	P35813	PPM1A	HUM	Unmodified	1830800	2142900	2226900	56450	75406	0	0	0	0
GPTEQLVSPEPEVYEILR	PPM1B; N/A; PPM1E	O75688; A0A3B3	PPM1B	HUM	Unmodified	802560	549400	797500	0	0	0	0	0	0
GPTGDPGKNGDKGHAGLAGAR	COL1A2; COL1A2	P08123; A0A087	COL1A2	HUM	Deamidation (N)	5063100	4614900	2636700	7337800	6881600	6645500	736150	1073200	541070
GPTGDPGKNGDKGHAGLAGAR	COL1A2; COL1A2	P08123; A0A087	COL1A2	HUM	Methyl (KR);Deam	1390700	926200	0	2191700	2234800	2217700	0	390740	804210
GPTMPDEDFFSLIQR	GPSM1; GPSM1; GP	Q86YR5; A0A0A	GPSM1	HUM	Oxidation (M)	1925400	2255000	1568400	0	0	0	0	0	0
GPTPFNQNQLHQLR	SMARCA4; SMARC	P51532; A0A2R8	SMCA4	HUM	Unmodified	822480	1373600	1932800	0	0	0	0	0	0
GPTSTSIDNIDGTPVRDER	RPRD2	Q5VT52	RPRD2	HUM	Unmodified	517250	572430	950470	37375	42426	50652	0	0	0
GPVEGYEENEEFLR	TRMT112; TRMT11	Q9UI30; F5GX77;	TR112	HUM	Unmodified	3070800	1977100	1909700	58542	0	89036	0	0	0
GPVGLEGLLTTK	ALDH18A1	P54886	P5CS	HUM	Unmodified	3884900	2644000	3051700	44636	41369	42288	0	0	11605
GPVGTVSEAQLAR	MYOF	Q9NZM1	MYOF	HUM	Unmodified	869990	741180	918680	37560	97422	62007	15253	0	0
GPVKPTGGPGGGGTQTQQQMNQLK	DDX6; DDX6	P26196; Q8IV96	DDX6	HUM	Oxidation (M)	0	964970	917540	0	0	0	0	0	0
GPVPAKPTVLFEK	MAP1S	Q66K74	MAP1S	HUM	Unmodified	1455600	1112800	2777400	139340	128420	139930	0	0	0
GPVREGDVLTLLESER	RPS28	P62857	RS28	HUM	Unmodified	5807900	4004300	4966900	0	0	0	0	0	0
GPVREGDVLTLLESEREAR	RPS28	P62857	RS28	HUM	Unmodified	32344000	38533000	29815000	26284	0	0	119630	0	0
GPVREGDVLTLLESEREARR	RPS28	P62857	RS28	HUM	Unmodified	1182200	2315900	2352900	0	0	0	0	0	0
GPVSGTEPEPVYSMEAADYR	CTTN; CTTN; CTTN	Q14247; H0YEV2	SRC8	HUM	Oxidation (M)	1794800	1727200	1105800	273970	0	0	0	0	0
GPVSPSVSFQPLAR	MAVS	Q7Z434	MAVS	HUM	Unmodified	3377800	3381800	4079800	340770	311210	285920	104020	102430	59967
GPVVLAEDFLDIMGQPINPQCR	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2	HUM	Oxidation (M)	199140	53842	92356	0	0	0	0	0	0
GPVYIGELPQDFLR	TOLLIP; TOLLIP; TC	Q9H0E2; F2Z2Y8	TOLIP	HUM	Unmodified	5512800	5385900	4787900	0	0	0	77093	0	22050
GQAAQPEPSTGFTATPPAPDSPQEPLVLR	TMUB1; TMUB1; TN	Q9BVT8; A0A59	TMUB1	HUM	Unmodified	1010700	1223400	0	88415	106160	67308	0	0	0
GQAAVQQLQAEGLSPR	CBR3; CBR1; CBR1;	O75828; P16152;	CBR3	HUM	Unmodified	21752000	19274000	17870000	1059900	868410	1048600	100140	79575	60735
GQAFVIFKELGSSTNALR	SNRPB2	P08579	RU2B	HUM	Unmodified	806820	0	779000	0	0	0	0	0	0
GQAFVIFKEVSSATNALR	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA	HUM	Unmodified	6797600	5064000	5199000	0	0	0	0	0	0
GQAFVIFKEVSSATNALR	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA	HUM	Deamidation (N)	1523300	1621400	2047400	0	0	0	0	0	0
GQAGVMGFPGPK	COL1A1	P02452	CO1A1	HUM	Oxidation (M)	0	0	1065600	267730	262000	289020	100780	119980	91612
GQATDIAIQAEEIMK	CLPP; CLPP	Q16740; M0R208	CLPP	HUM	Oxidation (M)	2159400	2634600	2644100	0	16948	0	0	0	0
GQATDIAIQAEEIMKLK	CLPP; CLPP	Q16740; M0R208	CLPP	HUM	Oxidation (M)	1283100	1084100	1066600	0	0	0	0	0	0
GQAVDYEGSR	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	1961600	2473200	3102000	96454	0	93587	0	0	0
GQAVDYEGSRTQEEIVAK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	3422400	3979000	2848000	0	106710	129470	0	0	0
GQCIKPLFGAVTK	FBN1	P35555	FBN1	HUM	Unmodified	0	0	0	0	169360	184050	0	272980	319190
GQDEASAGGIWGFIK	PRRC1	Q96M27	PRRC1	HUM	Unmodified	1191700	1063400	1648300	0	0	0	0	0	0
GQDIEYIEIR	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Unmodified	0	0	0	63746	63537	100440	0	0	0
GQDIRIPTPVIHTKH	CKMT1A	P12532	KCRU	HUM	Unmodified	1018500	1108100	1414300	0	0	0	0	0	0
GQDVGRYQVSWSLDHK	SSR4	P51571	SSRD	HUM	Unmodified	777200	0	796530	0	0	0	0	0	0
GQEITVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	836460	1441600	1537700	1487200	0	7162.3	34320
GQETSTNPIASIFAWTR	IDH1	O75874	IDHC	HUM	Unmodified	3474700	2369400	3461600	0	0	0	0	0	0
GQFAEHLLGAGFVSSR	DHX36; DHX36; DH	Q9H2U1; A0A0G	DHX36	HUM	Unmodified	380020	398770	0	0	0	0	0	0	0
GQFETYLR	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1	HUM	Unmodified	0	2268200	2124200	0	0	0	0	0	0
GQFSTDELVAEVEK	CLTC1; CLTC; CL1	P53675; Q00610;	CLH2	HUM	Unmodified	0	1471400	1941100	0	0	0	0	0	0
GQFSTDELVAEVEKR	CLTC1; CLTC; CL1	P53675; Q00610;	CLH2	HUM	Unmodified	8391500	7200000	5896700	0	0	0	0	0	0
GQGALDPNGTRVR	CBX8	Q9HC52	CBX8	HUM	Deamidation (N)	391030	321180	349340	0	0	0	0	0	0
GQGPGEVDPK	NDUFB7	P17568	NDUB7	HUM	Unmodified	1355500	1711300	0	200130	191880	41803	0	0	0
GQGPGEVDPKVAL	NDUFB7	P17568	NDUB7	HUM	Unmodified	0	0	0	182450	136390	136510	0	0	0
GQGSSPVAMQK	VCL	P18206	VINC	HUM	Oxidation (M)	0	0	1215500	0	488070	0	66200	0	0
GQGVYLGMPGCLPVYDALAGEFIR	ERP29; ERP29	P30040; F8VY02	ERP29	HUM	Oxidation (M)	298220	116050	160220	0	0	0	0	0	0
GQHVPGSPFQFTVGPLGEGGAHK	FLNC; FLNA; FLNA;	Q14315; P21333;	FLNC	HUM	Unmodified	2881300	2534700	3533800	21276	0	0	32727	33222	36973
GQHVTGSPFQFTVGPLGEGGAHK	FLNB; FLNB; FLNB	O75369; H7C5L4;	FLNB	HUM	Unmodified	2134800	2354700	2224400	92376	81107	65253	37454	25104	0
GQIEEQKEMMEK	PRPF6	O94906	PRP6	HUM	2 Oxidation (M)	494830	0	436820	27570	0	0	0	0	0
GQIETVR	HMGN3	A0A087WZE9	A0A087WZE	HUM	Unmodified	1394100	1452400	1715200	0	0	63292	0	0	0
GQIIGNFQAFDEDTGLPAHAR	DSG2	Q14126	DSG2	HUM	Unmodified	830930	1175900	884870	0	0	0	0	0	0
GQIIYTWQGANATR	SCIN	Q9Y6U3	ADSV	HUM	Deamidation (N)	837490	765120	0	0	0	0	0	0	0
GQKIPIFSAAGLPHNEIAAQICR	ATP6V1B2; ATP6V1	P21281; P15313;	VATB2	HUM	Unmodified	1498600	879720	0	0	0	0	0	0	0
GQKVLDSGAPIKIPVGPETLGR	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB	HUM	Unmodified	14328000	6821000	7039500	100270	0	0	40529	0	70608
GQLEQITGK	HP1BP3; HP1BP3	Q5SSJ5; B0QZK4	HP1B3	HUM	Unmodified	8173600	7330600	6836200	0	262650	478730	0	0	0
GQLGEAEGENLRLQGLVRQKER	CEP131; CEP131; CE	Q9UPN4; I3L4M5	CP131	HUM	Deamidation (N)	0	0	240250	0	0	0	0	0	0
GQLGNWMSPADFQR	PCK2; PCK2	Q16822; H0YM31	PCKGM	HUM	Oxidation (M);Deam	3733900	4687100	3282600	190040	76557	210500	16194	15534	0
GQLGNWMSPADFQR	PCK2; PCK2	Q16822; H0YM31	PCKGM	HUM	Oxidation (M);Deam	422170	0	433140	23550	20152	33711	0	0	0
GQLQLVEGNFR	LAMA5	O15230	LAMA5	HUM	Unmodified	0	0	0	87155	84886	91491	0	0	0
GQLTNIVSPTAATTPR	NAV1; NAV1	Q8NEY1; H0Y6F0	NAV1	HUM	Unmodified	1240500	1472100	1234700	0	0	0	0	0	0
GQLTTDQVFPYPSVLNEEQTQFLK	ACADVL; ACADVL;	P49748; K7EJW8;	ACADV	HUM	Unmodified	849630	677110	932280	0	0	0	0	0	0
GQLVPLETVLDMLR	AK1; AK1; AK1	P00568; H0YID2;	KAD1	HUM	Oxidation (M)	958540	222630	919000	0	0	0	0	0	0
GQLVPLETVLDMLRDAMVAK	AK1; AK1; AK1	P00568; H0YID2;	KAD1	HUM	2 Oxidation (M)	2928000	1147300	1308900	0	0	0	0	0	0
GQMDQPANMPDSILLEAK	POGZ	Q7Z3K3	POGZ	HUM	2 Oxidation (M)	668340	2535200	408380	0	0	0	0	0	10795
GQMGPTEQGPYAK	CLCC1; CLCC1; CL	Q96S66; A0A6Q8	CLCC1	HUM	Oxidation (M)	0	0	510300	0	0	97448	0	0	0
GQMQKPFEDASFALR	PIN1; PIN1	Q13526; K7EN45	PIN1	HUM	Oxidation (M)	57037000	45278000	63542000	1885500	1944000	1840300	222060	193580	184160
GQNLLLTNLQTIQGILERSETETKQR	TPR	P12270	TPR	HUM	Unmodified	151810	21685	91962	0	0	0	0	0	0
GQNLLQTQDHAK	MKI67	P46013	KI67	HUM	Unmodified	1370700	1161100	1010400	0	0	0	0	0	0
GQNQDYRGGKNSTWSGESK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	2 Deamidation (N)	1328000	1178700	833600	0	0	0	0	0	0
GQPDVVVKEDEEYKR	ACAT1; ACAT1; AC	P24752; A0A5F9	THIL	HUM	Unmodified	1179200	773840	624870	41881	0	0	0	0	0
GQPIYIQFSNHK	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Deamidation (N)	3143200	2825600	4161100	166620	126670	159270	0	0	0
GQPIYIQFSNHKELK	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Deamidation (N)	19060000	19495000	16867000	785540	952560	944800	0	0	31967
GQPIYIQFSNHKELKTDSSPNQAR	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Deamidation (N)	21061000	18719000	19748000	373400	580900	555150	0	0	34835
GQPIYIQFSNHKELKTDSSPNQAR	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	2 Deamidation (N)	3662100	4284000	1196500	0	42460	0	0	0	0
GQPIYIQFSNHKELKTDSSPNQAR	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Unmodified	1064200	0	1274500	0	0	0	0	0	0
GQPLPDHLQMAVQGK	SMARCA4; SMARC	P51532; A0A2R8	SMCA4	HUM	Oxidation (M)	1576700	1435900	2138400	49490	0	74854	0	0	0
GQPLPETLQLAVQGK	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	Unmodified	889880	474080	553790	0	14997	0	0	0	0
GQPLPETLQLAVQGKR	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	Unmodified	2161000	1862700	0	70395	66920	67841	0	0	0
GQPLQAAVEKDSLR	ERICH5	Q6P6B1	ERIC5	HUM	Unmodified	1565500	1016300	1068100	79939	31647	48808	0	0	0
GQPLSPEKVVTSAPMPEPQAPGR	IGHM	P01871	IGHM	HUM	Oxidation (M)	5048200	4538900	4484600	0	0	219300	0	0	0
GQPSEGESRNVLTESAR	GATD3B; GATD3A;	A0A0B4J2D5; P0	GAL3B	HUM	Unmodified	1420300	1288900	1333600	147400	160520	185170	0	0	0
GQQASPFVLR	MED18	Q9BUE0	MED18	HUM	Unmodified	2100000	2329600	1253100	47526	45256	76477	0	0	0
GQRPDFTDAIILR	DRG2; DRG2	P55039; A8MZF9	DRG2	HUM	Unmodified	0	3879200	0	0	12153	14481	0	0	0
GQSDIAITK	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4	HUM	Unmodified	2289100	0	3050300	0	0	0	0	0	0
GQSDIAITKDMFEEALR	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4	HUM	Oxidation (M)	381240	465870	527280	0	0	0	0	0	0
GQSEEIQK	RPL24; RPL24; RPL	P83731; C9JNW5;	RL24	HUM	Unmodified	654440	651810	0	61736	34686	61866	0	0	0
GQSGTYGCRVEDYDAADDVQLSK	BCAM; BCAM	P50895; A0A087	BCAM	HUM	Unmodified	1253100	1738800	1429100	304620	0	0	0	0	0
GQSSWGTGESFR	LMNB2	Q03252	LMNB2	HUM	Unmodified	1685400	1692500	1119200	156820	145210	216910	0	0	0
GQTHTLEDFQR	HSD17B10; HSD17B	Q99714; Q5H928	HCD2	HUM	Unmodified	3240800	3250300	2735400	0	114130	61863	0	0	0
GQTLTLTQQQR	ATP2C1; ATP2C1; A	P98194; B4E2Q0;	AT2C1	HUM	Unmodified	1090200	1075200	1073600	85704	95274	75118	0	0	0
GQVCVMIHSGSR	RTCB	Q9Y3I0	RTCB	HUM	Oxidation (M)	523860	658920	490810	0	20620	0	0	0	0
GQVEYLLK	CBX5; CBX5	P45973; F8VNY3	CBX5	HUM	Unmodified	4045000	3752100	3368200	0	0	0	0	0	0
GQVFDVGPR	MAPK1	P28482	MK01	HUM	Unmodified	8654200	8537500	7405900	545190	621840	560610	230100	214600	0
GQVGGTFAR	POLA2	Q14181	DPOA2	HUM	Unmodified	578530	585560	0	0	0	15568	0	0	0

GQVPMQDPR	CSTF2; CSTF2	P33240; E9PID8	CSTF2 HUM	Oxidation (M)	3517500	3117300	4112600	287030	370260	352050	0	0	0
GQVPPLVTTNFLVK	SEC24C; SEC24C	P53992; G5EA31	SC24C HUM	Unmodified	3926900	3196600	2851600	68548	86738	53776	0	11670	0
GQVPPLVTTNFLVKDQGNASPR	SEC24C; SEC24C	P53992; G5EA31	SC24C HUM	2 Deamidation (N)	820290	699960	844470	0	0	0	0	0	0
GQVSEGGQLR	SNX27; SNX27	Q96L92; A0A2R8	SNX27 HUM	Unmodified	1116500	0	1001200	107360	284600	187620	0	0	0
GQVVSLIR	CAPN1; CAPN1	P07384; E9PL37	CAN1 HUM	Unmodified	4125000	1215700	1818500	164250	51347	129110	9408	0	0
GQVWINGFNLGR	GLB1L; GLB1L; GLB1	Q6UWU2; P16278	GLB1L HUM	Deamidation (N)	1143600	901940	1081200	0	0	0	0	0	0
GQWINLPVLQLTK	AAAS	Q9NRG9	AAAS HUM	Unmodified	130210	0	140970	0	0	0	0	0	0
GQYFGELALVTNKPR	PRKAR2A; PRKAR2	P13861; P31323;	KAP2 HUM	Unmodified	764190	1079800	886350	0	56430	62097	25067	0	0
GQYISPFHDIPIYADKDVFHMVVEVPR	PPA1; PPA1	Q15181; Q5SQT6	IPYR HUM	Oxidation (M)	1750300	2961700	0	0	0	0	0	0	0
GRAQADLALEK	NUMA1; NUMA1	Q14980; A0A087	NUMA1 HUM	Unmodified	1489200	1597000	1271100	144430	0	158620	0	0	0
GRDIVVLGVEK	PSMA7	O14818	PSA7 HUM	Unmodified	982420	1278300	1289400	0	61043	25103	0	0	0
GRDIVVLGVEKK	PSMA7	O14818	PSA7 HUM	Unmodified	2485300	2291800	1706100	170810	117250	203030	0	0	0
GRDPALPTLLNPK	MOGS; MOGS; MOG	Q13724; A0A3B3	MOGS HUM	Unmodified	0	923890	1030300	101300	87198	77613	0	0	0
GRDVIAQSQSGTGK	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3 HUM	Unmodified	0	2725400	0	0	0	0	0	0	0
GRDWNVDLIPK	GDI1; GDI2; GDI2; G	P31150; P50395;	GDIA HUM	Unmodified	7950800	8192700	8991800	85356	75362	75995	0	0	0
GREEYEGPNKKPR	SFPQ	P23246	SFPQ HUM	Deamidation (N)	405850	502820	1136600	0	0	0	0	0	0
GRELPTAFDYVEFTR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1 HUM	Unmodified	2242500	2796900	2562000	35172	0	19325	0	0	0
GRELTGLK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1 HUM	Unmodified	4245600	4856500	4671000	0	105620	128570	0	0	0
GRELTGLKALYETELADARR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1 HUM	Unmodified	1252700	1726800	0	0	0	0	0	0	0
GRGFGSEEGSR	RBM8A	Q9Y5S9	RBM8A HUM	Unmodified	0	2516000	1742800	328440	0	0	0	0	0
GRGFTPVVDDPVTER	NEBL; NEBL	O76041; A0A6Q8	NEBL HUM	Methyl (KR)	3608500	4805800	5084900	115900	0	0	120550	96851	0
GRGGGFHSGGNRGRGR	FBL; FBL	M0R2Q4; M0R2B	M0R2Q4 HUM	2 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
GRGGPPGQFHDNANGGQNGTVQEIMIPAGK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2 HUM	Oxidation (M);3 De	0	1628700	0	0	0	0	0	0	0
GRGGPPGQFHDNANGGQNGTVQEIMIPAGK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2 HUM	Oxidation (M);2 De	963280	1254500	1106900	173060	0	0	0	0	0
GRGVDLTEPTQPTR	RAB5A	P20339	RAB5A HUM	Unmodified	0	834140	1386200	158980	176190	121260	32071	59632	50417
GRKEPGVPASVSTVSYGELER	MYH14	M0QY43	M0QY43 HUM	Unmodified	764890	764680	912350	0	0	0	0	0	0
GRLAPQNGGSSDAPAYR	TOR1AIP1; TOR1AIP	Q5JTV8; J3KN66	TOIP1 HUM	Deamidation (N)	0	151970	110180	59599	77019	51317	0	0	0
GRLKEELEEARDIAR	EIF4G1; EIF4G1; EIF	Q04637; C9JF13;	IF4G1 HUM	Unmodified	1983000	1555600	2099400	0	0	0	0	0	0
GRLYPWGVVEVENPEHNDFLK	SEPTIN2; SEPTIN2;	Q15019; H7C2Y0	SEPT2 HUM	Unmodified	1874800	2497500	1643200	0	0	0	0	0	0
GRMSMKEVDEQMLNVQNK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A HUM	3 Oxidation (M)	3216600	2190900	2879700	64579	0	59705	0	0	0
GRNEEQGIPLEYLEK	DCK; DCK	P27707; D6RFG8	DCK HUMA	Deamidation (N)	1262600	1444000	704480	0	0	0	0	0	0
GRPAATEVK	PSIP1	O75475	PSIP1 HUM	Unmodified	1135900	291740	348730	16796	95001	0	0	0	0
GRPAPGFHHGDGPGNAVQEIMIPASK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1	FUBP1 HUM	Oxidation (M);Dea	4140600	6491000	8208400	42977	0	0	0	0	0
GRPAPGFHHGDGPGNAVQEIMIPASK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1	FUBP1 HUM	Oxidation (M)	4628400	6609200	4367200	0	0	0	0	0	0
GRPDLSTLTHSIVR	HIRIP3	Q9BW71	HIRP3 HUM	Unmodified	1701100	1857500	1857400	0	0	0	0	0	0
GRPGPEGAGPAAGLDVR	KLF16	Q9BXK1	KLF16 HUM	Unmodified	2215400	2003300	2474100	315340	230290	205010	30166	16639	18643
GRPVPMMIPDELAPTYSLDTR	EML2; EML2; EML2	O95834; K7EIM1	EMAL2 HUM	2 Oxidation (M)	14374000	16636000	19549000	414330	417340	302300	34365	0	17256
GRSELIVVEEGSEPSELIK	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV HUM	Unmodified	3633100	3611100	4056300	0	0	0	0	0	0
GRTFNLTAGSLESTEPIYVYK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1 HUM	Unmodified	1224000	677090	927950	0	0	0	0	0	0
GRTVIIEQSWGSPK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60 HUM	Unmodified	2946700	3056000	3436900	100100	114350	0	0	0	0
GRVLVNDAQKVTEGQQERLER	TRIM28	Q13263	TIF1B HUM	Deamidation (N)	1701400	1344300	1178700	51558	42923	37778	0	0	0
GRVPYPGMNNR	FYN	P06241	FYN HUMAN	Oxidation (M);2 M	1158000	0	991560	0	0	0	0	0	0
GRVQGLLEEEAAAR	SAMD1; SAMD1	Q6SPF0; E9PIW9	SAMD1 HUM	Unmodified	2426400	2398900	2259900	133640	55074	35287	0	0	0
GSAADSEESPAIEAIHLLR	ALAD; ALAD	P13716; B7ZBK6	HEM2 HUM	Unmodified	274470	1325200	1771300	16654	0	0	0	0	0
GSADNVTVMVVR	ILKAP; ILKAP	Q9H0C8; F8SNU7	ILKAP HUM	Oxidation (M)	5244000	4422500	6159100	0	260680	0	0	0	0
GSAIDEDIVTR	TOR1B	O14657	TOR1B HUM	Unmodified	1240200	1331600	1622200	0	460060	355450	0	0	0
GSAITGPVAK	RPL23; RPL23	P62829; J3KTJ3	RL23 HUM	Unmodified	0	0	0	0	0	0	0	0	0
GSAPPGPVPEGSIR	GSTO1	P78417	GSTO1 HUM	Unmodified	0	0	3885000	0	414450	438340	0	31390	0
GSDALSETSSVSHIEDLEK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1 HUM	Unmodified	1737200	911040	0	49813	57249	37067	0	0	0
GSDALSETSSVSHIEDLEKVER	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1 HUM	Unmodified	0	4087500	5531800	59499	0	0	42244	0	29456
GSDASGQLFHGR	PLCG1; PLCG1; PLC	P19174; V9GY71	PLCG1 HUM	Unmodified	1376000	1390800	1140900	68040	0	157400	0	0	0
GSDEPPVFLEIHYK	LAP3; LAP3	P28838; H0Y9Q1	AMPL HUM	Unmodified	1463700	1409100	1119600	0	0	43549	0	0	0
GSDFDCELR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK HUM	Unmodified	2793100	3272400	3690200	36297	41828	30861	0	0	0
GSDHSASLEPGELAELVR	NANS; NANS; NANS	Q9NR45; Q5TBR	SIAS HUMA	Unmodified	6824500	7282400	6106600	0	151460	84125	0	0	0
GSDIIIVGR	UMPS	P11172	UMPS HUM	Unmodified	3211300	3579300	3249000	64852	84405	94158	0	0	0
GSDQNASLYWLAR	WRNIP1	Q96S55	WRIP1 HUM	Unmodified	0	0	0	0	0	0	0	0	0
GSDVIIMLVGNKTDLADKR	RAB6A; RAB6B; RA	P20340; Q9NRW1	RAB6A HUM	Oxidation (M)	3561300	1679000	4265100	0	0	0	0	0	0
GSDVIIMLVGNKTDLADKR	RAB6A; RAB6B; RA	P20340; Q9NRW1	RAB6A HUM	Oxidation (M);Dea	1216100	1142700	1234400	0	0	0	0	0	0
GSEEELADIK	DNAJC9	Q8WXX5	DNJC9 HUM	Unmodified	0	2588100	0	0	26899	0	0	0	0
GSEGKPSLTLPASAPGPEEALTTVTVAPAPR	PRRC2A	P48634	PRC2A HUM	Unmodified	6999700	4967900	5763300	23322	0	0	26251	0	0
GSEGLYMVNGPPHFTESTVFPR	EIF2A; EIF2A; EIF2A	Q9BY44; H7C5Q2	EIF2A HUM	Oxidation (M);Dea	16201000	12373000	15911000	63706	19964	0	0	0	0
GSEGLYMVNGPPHFTESTVFPR	EIF2A; EIF2A; EIF2A	Q9BY44; H7C5Q2	EIF2A HUM	Oxidation (M)	818050	692060	0	0	0	0	0	0	0
GSEGPQGVR	COL1A1	P02452	CO1A1 HUM	Unmodified	27631000	49016000	35739000	21169000	47336000	43200000	6694400	10631000	12659000
GSELSERIESFVETLKR	EIF2B2; EIF2B2	P49770; G3V5E5	EI2BB HUM	Unmodified	746660	787150	857520	0	0	0	0	0	0
GSESGIFTNTK	FGA	P02671	FIBA HUM	Unmodified	996210	793320	699890	0	0	0	0	0	0
GSETDSAQDQPVKMNSLPAER	NMT1; NMT1; NMT	P30419; A0A7I2V	NMT1 HUM	Oxidation (M);Dea	1895400	911780	834790	0	0	0	0	0	0
GSEVGFHGAAPDISVK	AHNAK	Q09666	AHNK HUM	Unmodified	0	0	0	167430	204480	224290	64527	9074.6	0
GSFAPGHGPR	TMEM160	Q9NX00	TM160 HUM	Unmodified	0	406810	1166300	0	0	74855	0	0	0
GSFGAMDDPFKNK	EPS15L1; EPS15L1	Q9UBC2; M0R3I1	EP15R HUM	Oxidation (M)	709630	770430	465590	33170	26450	32772	0	0	0
GSFGELALMYNTPR	PRKAR2A; PRKAR2	P13861; P31323;	KAP2 HUM	Oxidation (M)	0	606280	570720	52830	45745	56502	0	18871	0
GSFSDTGLGDGK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150 HUM	Unmodified	633730	426310	566130	72927	0	81342	0	0	0
GSFSEQGINEFLR	PDIA6	Q15084	PDIA6 HUM	Deamidation (N)	4048100	1373800	4187800	0	0	0	0	0	0
GSFSEQGINEFLR	PDIA6	Q15084	PDIA6 HUM	Unmodified	39151000	40295000	37945000	126570	99652	101270	40242	44592	36264
GSFSEQGINEFLRLESFGR	PDIA6	Q15084	PDIA6 HUM	Unmodified	241510	0	636140	0	0	0	0	0	0
GSFSEQGINEFLRLESFGR	PDIA6	Q15084	PDIA6 HUM	Deamidation (N)	1834700	2417200	2739800	0	0	0	0	0	0
GSGEQDWVNRPK	IRF2BP2	Q7Z5L9	IF2BP2 HUM	Unmodified	704400	700540	528340	18309	12989	20086	0	0	0
GSGGFGSTGKN	DUT; DUT; DUT	P33316; H0YNW5	DUT HUMA	Unmodified	2359900	2882800	0	125360	0	0	0	0	0
GSGIFDESTPVQTR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2 HUM	Unmodified	9961800	10150000	9075200	585320	369230	493320	0	0	0
GSGSQSSVPSVDQFTGVGIR	SMC3	Q9UQE7	SMC3 HUM	Unmodified	4070400	4356600	2866900	72758	77597	73993	0	0	0
GSGTAEVELK	PKM; PKM; PKM; PI	P14618; H3BQ34	KPYM HUM	Unmodified	7080000	6919700	7557900	157100	141070	157130	0	0	0
GSGTAEVELKKGATLK	PKM; PKM; PKM; PI	P14618; H3BQ34	KPYM HUM	Methyl (KR)	619730	450760	593480	0	0	0	0	0	0
GSGTASDDEFENLR	HUWE1	Q7Z6Z7	HUWE1 HUM	Unmodified	2178700	1413600	1602600	0	0	0	0	0	0
GSGTNGYVQR	SRRM2; SRRM2; SR	Q9UQ35; I3L4D8	SRRM2 HUM	Deamidation (N)	1736000	1054500	1353900	91384	167860	87234	0	0	0
GSGVTTYSVHPGTVQSELVR	RDH11; N/A; RDH11	Q8TC12; H0YIZ8	RDH11 HUM	Unmodified	941320	1038800	847040	64416	73833	68394	0	0	0
GSIFVVFDSIESAK	SSB; SSB; SSB	P05455; E9PGX9	LA HUMAN	Unmodified	136310	0	0	0	0	0	0	0	0
GSIFVVFDSIESAKK	SSB; SSB; SSB	P05455; E9PGX9	LA HUMAN	Unmodified	1191000	0	981040	0	0	0	0	0	0
GSITISAEEIKDNR	CPNE3; CPNE3; CPN	O75131; H0YB26	CPNE3 HUM	Unmodified	4043300	2732900	2550200	0	0	0	0	0	0
GSLAEAVGSPPPAATPTPTPPTR	EPN1	Q9Y6I3	EPN1 HUMA	Unmodified	2158400	1445600	1621400	105470	85139	138940	42951	43657	0
GSLASLDSLR	CTNND1; CTNND1;	O60716; E9PKY0	CTND1 HUM	Unmodified	3045100	2957200	2681300	102770	28811	37361	0	0	0
GSLDTMLGLLQSDLSR	TGFB1I1; TGFB1I1	O43294; H3BQC4	TGFI1 HUM	Oxidation (M)	282070	266250	202310	0	0	0	16930	0	0
GSLDYRPLTTADPIDEHR	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A HUM	Unmodified	1197900	1037100	829480	0	43248	0	0	0	0
GSLESPATDVFGSTEEGEKR	PSMD12	O00232	PSD12 HUM	Unmodified	1454600	1201800	1214900	0	0	0	0	0	0
GSLITSLLR	TP53I3	Q53FA7	QORX HUM	Unmodified	2446300	3324800	3589900	0	0	0	0	0	0
GSLLTLQR	ASPH	Q12797	ASPH HUM	Unmodified	2333700	2126000	1940500	47018	0	31458	0	0	0
GSLPANVPTPR	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2 HUM	Unmodified	8816000	7426600	7864400	1143000	1449300	1351700	53424	63426	52194
GSLQILDQLLLPK	MRI1	Q9BV20	MTNA HUM	Unmodified	375000	230610	270400	0	0	0	0	0	0
GSMAGSTGVHDTVVNQLLSK	NSF; NSF	P46459; I3L0N3	NSF HUMAN	Oxidation (M)	0	1036100	1831300	20225	21143	0	0	0	0
GSMFDELMAR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2 HUM	2 Oxidation (M)	807380	792960	1049700	0	0	0	0	0	0
GSMVGPFQEAAFALPVSGMDKPVFTDPPVK	PIN4	Q9Y237	PIN4 HUMA	2 Oxidation (M)	7957800	5632200	6832400	0	0	0	0	0	0
GSNLDAPEPYR	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1 HUM	Unmodified	1274500	1477700	1418500	0	0	0	37024	0	0
GSNMDFREPTEEER	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H HUMA	Oxidation (M)	1150700	1103700	1134000	56646	52186	92718	0	0	0
GSNNVALGYDEGSIIVK	COPB2; COPB2; COI	P35606; H0YAC7	COPB2 HUM	Deamidation (N)	915470	1226100	944490	62653	64112	39765	0	0	0
GSNTTSHLHQAVAK	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2 HUM	Unmodified	0	0	784340	0	0	0	0	0	0
GSPAINVAVHVFR	TTR; TTR	P02766; A0A087	TTHY HUM	Unmodified	929490	731080	834750	82355	63291	71527	82050	0	0
GSPDGSLQTGKPSAPK	PELP1; PELP1; PELI	Q8IZL8; E7EV54	PELP1 HUM	Unmodified	0	0	0	116840	90388	143650	0	0	0
GSPESRLSFQHDPETSVLVLR	GANAB; GANAB; G	Q14697; F5H6X6	GANAB HUM	Unmodified	4662800	3957400	3067300	0	0	0	0	0	0
GSPFPEVAESVQQELESYR	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1 HUM	Unmodified	466940	486530	546510	0	0	0	0	0	0
GSPGADGPAGAPGTPGPQGIAGQR	COL1A1	P02452	CO1A1 HUM	Unmodified	0	601940	2557900	494340	457810	447190	155260	154940	54646
GSPHYFSPFRPY	SRSF9	Q13242	SRSF9 HUM	Unmodified	1918900	1562900	1369500	194120	239180	189040	54693	41661	0
GSPLGEVVEQGITR	DAP3; DAP3; DAP3;	P51398; V9GYA7	RT29 HUMA	Unmodified	1064300	1516700	0	0	0	0	0	0	0
GSPLLIGVR	GFPT1; GFPT2; GFP	Q06210; O94808;	GFPT1 HUM	Unmodified	2070300	1728900	1577000	274820	340630	322170	0	0	0
GSPLNAAPYGIESMSQDTEVR	PTPN1; PTPN1	P18031; B4DSN5	PTN1 HUMA	Oxidation (M);Dea	1001000	857790	0	59329	72355	0	0	0	0
GSPLNAAPYGIESMSQDTEVR	PTPN1; PTPN1	P18031; B4DSN5	PTN1 HUMA	Oxidation (M)	2147200	1463200	0	0	69301	70781	0	0	0
GSPLVVISQGK	CRMP1; DPYSL2; C	Q14194; Q16555;	DPYL1 HUM	Unmodified	4389100	4003500	4859500	49830	79927	69676	0	0	0
GSPMEISLPIALSK	LTA4H	P09960	LKHA4 HUM	Oxidation (M)	1877100	2115500	0	30286	44802	25734	0	0	0
GSPQQIDHAK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2 HUM	Unmodified	854070	1576100	1810400	0	89248	0	0	0	0
GSQAQPDSPSAQLALIAASQSFLQPGGK	TLN1	Q9Y490	TLN1 HUMA	Unmodified	774010	0	514260	0	0	0	0	0	0
GSRVDIETPNLEGTLTGPR	AHNAK	Q09666	AHNK HUM	Unmodified	521250	306770	492490	46551	35546	0	0	0	0
GSSAAGLTASVMR	MCM5; MCM5	P33992; B1AHB1	MCM5 HUM	Oxidation (M)	1307700	1182200	982050	0	0	0	0	0	0
GSSAAGLTASVMRDPSSR	MCM5; MCM5	P33992; B1AHB1	MCM5 HUM	Oxidation (M)	2657300	2055500	2902100	0	0	0	0	0	0
GSSAGFDRHITFSPEGR	PSMA6; PSMA6; PSI	P60900; G3V3U4	PSA6 HUMA	Unmodified	2815400	2895200	2685800	67614	84151	107640	0	0	0
GSSAVGLTAYVMKDPETR	MCM4; MCM4; MCI	P33991; A0A1B3	MCM4 HUM	Oxidation (M)	6387100	6668300	5502800	20007	15755	15026	0	0	0
GSSFEMTDDDSAIR	DHX30; DHX30	Q7L2E3; H7BXY	DHX30 HUM	Oxidation (M)	756110	421250	609760	0	0	0	0	0	0
GSSGGSGAKPSDAASEAARPATSTLNR	EIF4G1; EIF4G1; EIF	Q04637; H7C044	IF4G1 HUM	Unmodified	1852000	2012100	2681800	146980	85889	0	0	33158	0
GSSGVGLTAAVLR	MCM7	P33993	MCM7 HUM	Unmodified	5957200	5068100	6867100	17204	0	17486	0	0	0
GSSGVGLTAAVTTDQETGER	MCM3; MCM3; MCI	P25205; A0A499	MCM3 HUM	Unmodified	6469400	7398700	5280000	0	0	0	0	0	0
GSSKQQSEEDLLLQDFSR	SSR3; SSR3	Q9UNL2; C9JA28	SSRG HUM	Unmodified	1359000	1593000	1227700	88725	0	47194	0	0	0
GSSLNIMR	FN3KRP; FN3KRP	Q9HA64; I3L2K8	KT3K HUMA	Oxidation (M)	912750	943020	1154900	42764	40175	45113	0	0	0
GSTAPVGGGAFPTIVER	PDIA6	Q15084	PDIA6 HUM	Unmodified	31733000	33308000	28501000	699880	390920	628840	0	0	54252
GSTAPVGGGAFPTIVEREPWDGR	PDIA6	Q15084	PDIA6 HUM	Unmodified	5887500	2028400	3024900	0	22613	0	0	0	0
GSTDDKGPVAGWINALEAYQK	CNDP2; CNDP2; CN	Q96KP4; A0A087	CNDP2 HUM	Unmodified	5596800	4920600	4063000	0	0	0	0	0	0
GSTDDKGPVAGWINALEAYQK	CNDP2; CNDP2; CN	Q96KP4; A0A087	CNDP2 HUM	Deamidation (N)	1123800	1541400	1393200	14732	21653	0	0	0	0

GSTDNLMDDIER	CCT8	P50990	TCPQ_HUMA	Oxidation (M)	5537500	5549500	4835900	212910	116340	96682	0	0	0
GSTHPQPGVSPPAAPAAPGPK	GLS	O94925	GLSK_HUMA	Unmodified	3095500	2602300	2801900	0	0	0	0	0	0
GSTPYKGDDEGIFISR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB_HUM	Unmodified	2640200	3279300	2938900	57423	40003	51838	0	0	0
GSVGAVPSGTSPGGVATTAAAGSR	NFXL1	Q6ZNB6	NFXL1_HUM	Unmodified	619630	803660	696340	0	0	0	0	0	0
GSVISPTELEAPILVPHTAQR	VPS52	Q8N1B4	VPS52_HUM	Unmodified	3009900	2289900	2696900	28342	27565	0	21722	0	0
GSVPLSSSPPATHFPDETEITNPVPK	TOP2A	P11388	TOP2A_HUM	Unmodified	1246700	1070200	1751800	0	0	0	0	0	0
GSVSDEEMMELR	LCP1; LCP1; LCP1	P13796; Q5TBN3;	PLSL_HUMA	2 Oxidation (M)	1022600	758770	886930	0	75591	0	0	0	0
GSYGDLGGPIITTQVTIPK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK_HUM	Unmodified	92304000	59866000	65451000	133930	124890	83595	62502	61799	43544
GSYGDLGGPIITTQVTIPKDLAGSIIGK	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUM	Unmodified	2878100	0	0	0	0	0	0	0	0
GSYSNGVQSLSLPRWR	VIT; VIT	Q6UXI7; B5MD45	VITRN_HUM	Unmodified	22730000	24444000	25024000	1513400	1670700	1454200	0	54665	0
GSYVSIHSSGFR	DDX39B; DDX39A;	Q13838; O00148;	DX39B_HUM	Unmodified	885930	606570	381020	0	0	0	0	0	0
GSYVSIHSSGFRDFLLKPELLR	DDX39B; DDX39A;	Q13838; O00148;	DX39B_HUM	Unmodified	2488600	0	1745300	0	0	0	0	0	0
GTAAFSPSHPLLPLR	CAMSAP1	Q5T5Y3	CAMP1_HUM	Unmodified	808220	727830	473790	0	0	0	0	0	0
GTADAFIVR	IGF2R; IGF2R	P11717; A0A7Z7	MPRI_HUMA	Unmodified	3526400	3139600	3050800	18459	20260	108250	0	0	0
GTADVTHDLQEMKEESR	SLC2A1; SLC2A1	P11166; A0A6Q8	GTR1_HUMA	Oxidation (M)	862310	1381700	1143700	0	0	0	0	0	0
GTAGAIQEGSITR	NCOR1; NCOR1	O75376; A0A088	NCOR1_HUM	Unmodified	1346300	1145600	1103700	0	0	0	0	0	0
GTAGLLEQWLKR	HMCES; HMCES	Q96FZ2; E7EMP6	HMCES_HUM	Unmodified	2100700	1742200	1966800	0	0	0	0	0	0
GTATFDGTAIANAVVK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	Unmodified	340630	647820	554040	0	0	0	0	0	0
GTAVVNGEFKDLSLDDFK	PRDX3	P30048	PRDX3_HUM	Deamidation (N)	420830	254480	297520	0	0	0	0	0	0
GTAVVNGEFKDLSLDDFKGK	PRDX3	P30048	PRDX3_HUM	Deamidation (N)	2395500	1278700	0	0	0	0	0	0	0
GTAYTFFTPGNLK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Unmodified	1468600	1493100	1224800	26464	29234	35525	0	0	0
GTCLTVMMATRNVVR	DNHD1	Q96M86	DNHD1_HUM	2 Oxidation (M);M	0	11640000	0	0	0	0	0	0	0
GTDDSPKDSQEDLQER	TCEAL6; TCEAL3; T	Q6IPX3; Q969E4;	TCAL6_HUM	Unmodified	1119200	1574600	1139800	167960	237260	168280	0	0	0
GTDLTDEQIR	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B_HUM	Unmodified	1173500	1300200	1367100	89458	71791	0	0	0	0
GTDNEVAALQPPVVQLHDSNPYPR	COL18A1; COL18A1	P39060; H7BXV5	COIA1_HUM	Unmodified	620050	1419800	0	43776	83607	31473	0	0	0
GTDVPKWISIMTER	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUMA	Oxidation (M)	0	0	0	126350	121420	133340	54526	52761	49021
GTEAAGAMFLEAIPMSIPPEVK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT_HUMA	2 Oxidation (M)	5137200	5256700	6162500	0	0	0	0	0	0
GTEAPAVVTEEEDDDEETAPPVIAPRPDHTK	PAK2	Q13177	PAK2_HUMA	Unmodified	5891400	5591300	5763600	445610	543130	0	0	0	0
GTEDITSPHGIPLDLLDR	RUVBL1; RUVBL1;	Q9Y265; E7ETR0	RUVB1_HUM	Unmodified	5158400	5323200	4466000	0	0	23667	0	0	19924
GTEDITSPHGIPLDLLDRVMIIR	RUVBL1; RUVBL1;	Q9Y265; E7ETR0	RUVB1_HUM	Oxidation (M)	8309300	4118300	6449800	0	0	0	0	0	0
GTEHSGSTVPSILNR	ATP6V0A1; ATP6V0	Q93050; B7Z641;	VPP1_HUMA	Unmodified	4120200	1858300	1547300	120040	71344	88249	26554	0	50669
GTEIGVLAK	AK3	Q9UIJ7	KAD3_HUMA	Unmodified	1305000	2726400	2213900	50184	53900	43826	0	0	0
GTELGGAAGQGGHPPGYTSLASR	EMILIN1	Q9Y6C2	EMIL1_HUM	Unmodified	0	0	0	111660	67411	0	98058	109010	77379
GTEPFVTGVR	SEC24C; SEC24C; SI	P53992; A0A0U1I	SC24C_HUM	Unmodified	1555300	970330	1826000	201110	197210	229530	0	0	0
GTEVQVDDIK	RUVBL2	Q9Y230	RUVB2_HUM	Unmodified	862440	489900	613160	26778	42141	46442	0	0	0
GTEVQVDDIKR	RUVBL2	Q9Y230	RUVB2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
GTFPDAREQEIR	NONO; NONO; NON	Q15233; A0A7Z7	NONO_HUM	Unmodified	962220	1650100	1005700	0	0	0	0	0	0
GTGANGSFK	H1-10	Q92522	H1X_HUMAN	Deamidation (N)	3613900	2929200	3277000	0	199650	56873	0	0	0
GTGANGSFKLNR	H1-10	Q92522	H1X_HUMAN	Deamidation (N)	4302700	3620000	2528100	149170	112680	225790	0	0	0
GTGARPYTGK	AARS1; AARS1; AAI	P49588; A0A6Q8	SYAC_HUMA	Unmodified	277670	295850	293020	0	0	0	0	0	0
GTGASGSFK	H1-3; H1-4; H1-5; H1	P16402; P10412; I	H13_HUMAN	Unmodified	93785000	96871000	98244000	4312400	4301700	4422200	0	0	0
GTGASGSFKLNKK	H1-3; H1-4; H1-5; H1	P16402; P10412; I	H13_HUMAN	Deamidation (N)	6850400	6225500	9586700	573190	634940	628770	0	0	0
GTGEAEEEYVGPR	BYSL; BYSL	Q13895; F8WBL2	BYST_HUMA	Unmodified	714090	661990	0	0	0	43180	0	0	0
GTGGVDTAATGGVFDISNLDR	CKMT1A	P12532	KCRU_HUM	Unmodified	0	5243100	5318700	0	0	0	0	0	0
GTGGVDTAAVGGVFDVSNADR	CKB; CKB	P12277; H0YJG0	KCRB_HUM	Deamidation (N)	3456600	4057600	3311600	0	0	0	10419	0	0
GTGGVDTAAVGGVFDVSNADR	CKB; CKB	P12277; H0YJG0	KCRB_HUM	Unmodified	11326000	10423000	10201000	0	0	0	0	0	0
GTGIVSAPVPK	RPS2; RPS2; RPS2; I	P15880; E9PQD7;	RS2_HUMAN	Unmodified	7134300	8160900	10270000	709840	657710	691140	0	52345	0
GTGLDEAMEWLVETLK	ARL1; ARL1; ARL1	P40616; B4DZG7;	ARL1_HUMA	Oxidation (M)	418660	110730	541180	0	0	0	0	0	0
GTGLQPGEEELPDIAPPLVTPDEPK	USP5	P45974	UBP5_HUMA	Unmodified	4710200	6002300	5989400	0	0	0	0	0	0
GTGRIPDQLVILDMK	TMED10; TMED10	P49755; G3V2K7	TMEDA_HUM	Oxidation (M)	0	0	1219000	84192	45582	66840	0	0	9260.3
GTGVIQLYEIQHGDLK	DNAAF10	Q96MX6	DAA10_HUM	Unmodified	1363600	0	0	0	0	0	0	0	0
GTHHGLLANPHSIYSEMWHTQSSR	ABCB7; ABCB7; AB	O75027; A0A5F9	ABCB7_HUM	Oxidation (M)	1148800	1204600	1320700	0	0	0	0	0	0
GTHTGVWVGVSGSETSEALSR	FASN; FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	916540	460720	587860	0	0	0	0	0	0
GTIEILSDVQLIK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0_HUMA	Unmodified	429170	0	0	0	0	0	0	0	0
GTIEINPR	CRYZ	Q08257	QOR_HUMA	Unmodified	2302600	1333200	761110	1319200	13915	0	0	0	0
GTIEYTVESR	OXR1; OXR1	Q8N573; E5RII8	OXR1_HUMA	Unmodified	1075500	1694200	1449700	0	0	0	0	0	0
GTITDAPGFDPLR	ANXA11	P50995	ANX11_HUM	Unmodified	2222400	2050900	2689900	96992	81641	106480	0	0	0
GTITDAPGFDPLRDAEVLR	ANXA11	P50995	ANX11_HUM	Unmodified	40391000	52133000	49505000	232170	106230	16793	275590	18515	24597
GTITDAPGFDPLRDAEVLRK	ANXA11	P50995	ANX11_HUM	Unmodified	5840000	6341600	6727200	0	0	0	0	0	0
GTITVSAQELK	CPNE1; CPNE1; CPN	Q99829; Q5JX55;	CPNE1_HUM	Unmodified	2597400	3128800	2539600	0	0	0	0	0	0
GTITVSAQELKDNR	CPNE1; CPNE1; CPN	Q99829; Q5JX55;	CPNE1_HUM	Unmodified	2242500	2357900	1914400	87666	119030	103700	0	0	0
GTKALMDEVVK	PGK1	P00558	PGK1_HUMA	Oxidation (M)	965230	0	0	121300	152310	0	0	0	0
GTKALMDEVVK	PGK1	P00558	PGK1_HUMA	Oxidation (M);Metl	4713700	3482600	1713000	0	0	0	0	0	0
GTKALMDEVVKATSR	PGK1	P00558	PGK1_HUMA	Oxidation (M)	2251900	2746700	3224600	257110	356410	522040	0	22416	0
GTKAQVER	F11R; F11R	Q9Y624; A0A087	JAM1_HUMA	Acetyl (Protein N-t	0	2855700	0	0	0	0	0	0	0
GTKQEEFESIEEALPDTDVLYMTR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Oxidation (M)	2368700	2985600	0	0	0	0	0	0	0
GTKVILHLKEDQTEYLEER	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B_HUM	Unmodified	2099900	2129300	2017300	0	0	0	0	0	0
GTKVILHLKEDQTEYLEER	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B_HUM	Methyl (KR)	1697300	1446900	1412000	0	0	0	0	0	0
GTLDLQVIR	SPINDOC	Q9BUA3	SPNDC_HUM	Unmodified	1438800	1563100	1702100	0	0	0	0	0	0
GTLDPVEK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	56127000	52932000	53259000	723110	639670	825060	0	0	0
GTLKGHNGWVTQIATTPQFPDMILSASR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Oxidation (M);Deai	5081700	2044600	10043000	0	0	0	0	0	0
GTLLAFAEAR	NEU1; NEU1	Q99519; E9PIF4	NEUR1_HUM	Unmodified	1076500	916410	734510	42405	44625	40794	0	0	0
GTLPAVEPFQR	POLR1D; POLR1D	P0DPB6; A0A0R4	RPAC2_HUM	Unmodified	2849600	2955600	2705800	181230	154980	141680	28307	18999	24427
GTLSGWILSK	CANX; CANX; CAN	P27824; A0A7P0	CALX_HUMA	Unmodified	13821000	8467500	10004000	0	0	0	0	0	0
GTLVQTKGTGASGSFK	H1-3; H1-4; H1-5; H1	P16402; P10412; I	H13_HUMAN	Unmodified	816990	655920	717290	0	0	0	0	0	0
GTMDDISQEEGSSQGEDSVSGSQR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Oxidation (M)	2274900	3761600	793210	0	0	0	0	0	0
GTMDPALR	IPO7; IPO7	O95373; E9PLJ0	IPO7_HUMA	Oxidation (M)	1493500	2368100	3165900	0	0	0	0	0	0
GTMIPSEAPLLHR	MRPL24; MRPL24	Q96A35; X6RJ73	RM24_HUMA	Oxidation (M)	1250800	1403600	2548800	117140	69793	127000	0	0	0
GTNESLER	GFAP; VIM; VIM; VI	P14136; P08670; I	GFAP_HUMA	Unmodified	2817000	4567000	3153700	2334700	2181200	2136700	0	0	0
GTNESLER	GFAP; VIM; VIM; VI	P14136; P08670; I	GFAP_HUMA	Deamidation (N)	1035800	0	2004400	1110900	68061	81059	0	0	0
GTNSSDSEELSAGESITK	ARID4B; ARID4B	Q4LE39; H7C5R6	ARI4B_HUM	Unmodified	0	0	0	0	944740	0	0	25090	0
GTPEQPQCGFSNAVVQILR	GLRX5	Q86SX6	GLRX5_HUM	Unmodified	553360	1329500	754350	0	0	0	0	0	0
GTPLDTEVPMER	PC	P11498	PYC_HUMAN	Oxidation (M)	4137100	3937900	4108100	558560	464940	531590	0	0	0
GTPLISPLIK	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	4813300	5531400	5224100	272070	250690	12746	123560	110830	123160
GTPLLAVR	IRGQ; IRGQ	Q8WZA9; M0QZI	IRGQ_HUMA	Unmodified	2807700	2639600	1295500	25174	33298	24435	0	0	0
GTPQDLAR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	5887600	4358500	5881700	705050	224940	0	0	0	0
GTPQKDVIIK	RABGGTB; RABGG	P53611; Q5T4U8	PGTB2_HUM	Acetyl (Protein N-t	1377600	1322800	0	99814	100050	74115	0	0	0
GTPQKDVIIKSDAPDTLLLEK	RABGGTB; RABGG	P53611; Q5T4U8	PGTB2_HUM	Acetyl (Protein N-t	1985000	1433700	1011500	0	20784	0	0	0	0
GTPQQIDYAR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	37506000	37169000	36900000	1048400	1025300	1422500	0	24665	31928
GTQEAEEEGSEATPEAGPEGQETAEITDFQR	CCDC9	A0A2R8Y4Z8	A0A2R8Y4Z8	Unmodified	0	1127300	0	0	0	0	0	0	0
GTQGAEEVLR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	0	1994900	1669200	0	38572	0	0	0	0
GTQGATAGASSELDASK	SRP72	O76094	SRP72_HUM	Unmodified	640410	617690	407260	0	0	0	0	0	0
GTQGVVTNFEIFR	EIF3B	P55884	EIF3B_HUMA	Deamidation (N)	1699300	1844100	0	22354	20933	17457	0	0	0
GTQGVVTNFEIFR	EIF3B	P55884	EIF3B_HUMA	Unmodified	273990	301250	341130	0	0	0	0	0	0
GTQVVSPEK	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	0	0	1375300	0	0	0	0	0	0
GTRDDEYDYLFK	RAB11A; RAB11B; I	P62491; Q15907;	RB11A_HUM	Acetyl (Protein N-t	13991000	12044000	12495000	363790	311080	280870	0	0	0
GTSFDAAATSGGSASSEK	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA_HUMA	Unmodified	1471800	0	1284100	241700	165910	187100	0	0	0
GTSISTKPPLTK	RFC4; RFC4; RFC4;	P35249; C9J8M3;	RFC4_HUMA	Unmodified	1596900	986180	1126600	28568	0	0	0	0	0
GTSYQSPHGIPIDLLDR	RUVBL2; RUVBL2	Q9Y230; M0R0Y7	RUVB2_HUM	Unmodified	1438700	1387200	1059200	0	0	0	0	0	0
GTTEIGMIGSKPFSTVK	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5_HUM	Oxidation (M)	2359300	2822600	4873500	132850	0	161300	0	0	0
GTTGTQASFLQLFEGDDHKVEQLDK	ADSL; ADSL; ADSL;	P30566; A0A7P0	PUR8_HUMA	Unmodified	665900	695090	481230	0	0	0	0	0	0
GTVEPQLEAR	FLNA; FLNA; FLNA;	P21333; A0A7Z7	FLNA_HUMA	Unmodified	4177100	5420400	4043900	648620	491750	389830	0	0	0
GTVGEPTYDAEFQHFLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	2886900	2207000	2522800	0	0	0	0	0	0
GTVGFSGAELENLVNQAALK	YME1L1; YME1L1	Q96TA2; Q96I63	YME1L1_HUM	Unmodified	745020	600960	942580	0	0	0	0	0	0
GTVLDQVPVNPSLYLIK	SPIN1; SPIN3	Q9Y657; Q5JUX0	SPIN1_HUMA	Unmodified	780620	700330	1144600	0	0	0	0	0	0
GTVMYVGLTDFKPGYWIGVR	TBCB; TBCB	Q99426; K7EP07	TBCB_HUMA	Oxidation (M)	539000	1225900	1708900	0	0	0	0	0	0
GTVQGQLQGPISK	ACYP1; ACYP1	P07311; G3V2U7	ACYP1_HUM	Unmodified	3749200	3826900	4409300	0	0	0	0	0	0
GTVRSPMPSMTPRFPVK	TEX48	A0A1B0GUM3	A0A1B0GUM	Acetyl (Protein N-t	324660	0	0	0	0	0	0	0	0
GTVVTGTLER	TUFM	P49411	EFTU_HUMA	Unmodified	27616000	29002000	35030000	1944700	2523300	1753800	45342	45631	25617
GTWDHGASDVSLYR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Unmodified	0	0	0	81694	62091	50270	0	0	0
GTWESHPETTELVVLQGR	GNL1; GNL1	P36915; A0A140T	GNL1_HUMA	Unmodified	0	0	953330	0	0	0	0	0	0
GTYDILVTKDNQTR	PRKAR2A; PRKAR2	P13861; H7C1L0	KAP2_HUMA	Unmodified	2077700	1467000	758830	397730	826890	957440	185120	105400	92232
GTYDILVTKDNQTR	PRKAR2A; PRKAR2	P13861; H7C1L0	KAP2_HUMA	Deamidation (N)	2669000	775780	1197200	53457	159900	72933	19523	0	19618
GVAGALRPLVQATVPATPEQPVLDLK	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL_HUM	Unmodified	5130400	5522900	6535600	0	0	0	0	0	0
GVAGPRGQDPVSSPCG	CLCC1; CLCC1; CLC	Q96S66; A0A6Q8	CLCC1_HUM	Unmodified	0	0	0	341090	145350	183910	57962	82428	0
GVAINFVTEEDKR	EIF4A2	Q14240	IF4A2_HUMA	Deamidation (N)	1006500	571980	812320	0	65742	0	0	0	0
GVAINFVTEEDKR	EIF4A2	Q14240	IF4A2_HUMA	Unmodified	1166900	1177700	0	85204	85430	94143	0	0	0
GVAINMVTEEDKR	EIF4A1	P60842	IF4A1_HUMA	Oxidation (M);Deai	3077400	4250400	2499700	0	384280	30069	0	0	0
GVAINMVTEEDKR	EIF4A1	P60842	IF4A1_HUMA	Oxidation (M)	1525200	2549500	1236300	107240	73165	116300	0	0	0
GVALHRPDVYLLPPAR	IGHM	P01871	IGHM_HUMA	Unmodified	3218700	2282200	1989600	57961	33029	0	0	0	0
GVAMNVEHPFGGGNHQHIGKPSTIR	RPL8; RPL8; RPL8	P62917; E9PKU4;	RL8_HUMAN	Oxidation (M);Deai	616480	888230	1263900	0	0	0	0	0	0
GVAPLWMR	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP_HUM	Oxidation (M)	13389000	11134000	12859000	155040	158080	136010	0	0	0
GVAVDYLPER	P4HA1	P13674	P4HA1_HUM	Unmodified	2479600	2350100	2399600	0	0	0	0	0	0
GVAYTLLTPK	DDX42; DDX42	Q86XP3; A0A0A0	DDX42_HUM	Unmodified	526190	510820	791190	32684	0	28224	0	0	0
GVAYTLLTPKDSNFAGDLVR	DDX42; DDX42	Q86XP3; A0A0A0	DDX42_HUM	Deamidation (N)	0	1103700	1303300	0	0	0	0	0	0
GVAYTLLTPKDSNFAGDLVR	DDX42; DDX42	Q86XP3; A0A0A0	DDX42_HUM	Unmodified	391980	0	783070	0	0	0	0	0	0
GVDDAELDSVVKSQK	N/A	N/A	N/A	2 Methyl (KR)	1070100	1142400	980550	0	0	0	0	0	0
GVDDLDFFKGDEAIEKPTYATK	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3_HUMA	Unmodified	5111300	3417200	4661900	0	0	0	0	0	0
GVDEATIIDILTK	ANXA1; ANXA1; AN	P04083; Q5T3N0;	ANXA1_HUM	Unmodified	737510	479800	847850	0	0	0	35952	27412	27016
GVDEATIIDILTKR	ANXA1; ANXA1; AN	P04083; Q5T3N0;	ANXA1_HUM	Unmodified	788470	552400	717300	0	0	0	0	0	0
GVDEVTIVNILTNR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2_HUM	Unmodified	3882800	2533400	3365000	0	52300	44378	201110	157840	0
GVDEVTIVNILTNR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2_HUM	Deamidation (N)	0	0	274120	0	0	0	0	0	0

GVDGSFLARPSK	PTPN11; PTPN11	Q06124; A0A1W2	PTN11	HUM	Unmodified	579970	735740	586970	15181	0	0	0	0	0
GVDIVMDPLGGSDTAK	VAT1; VAT1; VAT1;	Q99536; K7ESA3;	VAT1	HUMA	Oxidation (M)	3895700	3324300	3648500	174000	188910	186490	0	0	0
GVDIVMDPLGGSDTAKGYNLLKPMGK	VAT1; VAT1; VAT1;	Q99536; K7ESA3;	VAT1	HUMA	2 Oxidation (M)	4838600	725020	0	0	0	0	0	0	0
GVDLFESFPYQVTER	QTRT2	Q9H974	QTRT2	HUM	Unmodified	0	37869	63508	0	0	0	0	0	0
GVDLQENNPASR	RAB5C; N/A	P51148; K7EIP6	RAB5C	HUM	Unmodified	8570100	6679400	7384000	798360	944920	1059100	16241	0	0
GVDLQENNPASR	RAB5C; N/A	P51148; K7EIP6	RAB5C	HUM	Deamidation (N)	1784900	1228600	1036900	39603	0	0	0	0	0
GVDLTEPTQPTR	RAB5A	P20339	RAB5A	HUM	Unmodified	1978600	2252700	2173100	0	0	0	0	0	0
GVDRTPYLGDVAVVVHPGKK	DPYSL5	Q9BPU6	DPYL5	HUM	Unmodified	1789300	1435000	1718400	0	0	0	0	0	0
GVDYNAEIPFEK	CDC5L	Q99459	CDC5L	HUM	Unmodified	0	0	0	0	0	0	0	0	0
GVEEEEEDGEMRE	SNRPF	P62306	RUXF	HUMA	Oxidation (M)	20273000	23207000	14725000	2092900	2278900	2295900	0	0	0
GVEGLIDIENPNR	PDAP1	Q13442	HAP28	HUM	Unmodified	0	0	0	197450	292170	325390	0	42653	0
GVEIC1ATPGR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUMA	Unmodified	1734100	0	1725000	36662	42228	29040	0	0	23689
GVEPSPSPIKPGDIK	UFD1; UFD1	Q92890; C9JNP9	UFD1	HUMA	Unmodified	797070	573000	581060	33649	29726	44819	0	0	0
GVEPSPSPIKPGDIKR	UFD1	Q92890	UFD1	HUMA	Unmodified	1837700	837160	1965800	64786	163710	103200	0	0	0
GVETIANDVVSLATK	DLAT; DLAT; DLAT	P10515; A0A7P01	ODP2	HUMA	Unmodified	1762600	1217600	1129900	0	0	0	0	0	0
GVEVTVGHEQEEGGK	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B	HUM	Unmodified	534100	464150	0	0	0	0	0	0	0
GVEVTVGHEQEEGGKWPYAGTAEAIK	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B	HUM	Unmodified	1976800	1191400	0	0	0	0	0	0	0
GVFEAIVDQSPFVPEETMEEQK	RRP1B	Q14684	RRP1B	HUM	Oxidation (M)	1072600	817380	775260	0	0	0	0	0	0
GVFEAIVDQSPFVPEETMEEQKTK	RRP1B	Q14684	RRP1B	HUM	Oxidation (M)	834390	671530	935620	0	0	0	0	0	0
GVFHQTVSR	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	707310	1224000	743150	114750	141340	225530	30621	40232	31390
GVFNVQMEPK	EIF2S1	P05198	IF2A	HUMA	Oxidation (M)	799730	891440	528410	0	0	0	0	0	0
GVFTKELPSGKK	PRDX6	P30041	PRDX6	HUM	Unmodified	591450	299310	689380	136680	109420	84567	0	0	0
GVGAAATAVTQALNELLQHVKAHATGAGPAGR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	41394	0	29652	0	0	0	0	0	0
GVGADPEARAEAGEQPGTAER	RRP1	P56182	RRP1	HUMA	Unmodified	554870	634880	599050	50842	0	51113	0	0	0
GVGAEPLLPWNR	XRN2	Q9H0D6	XRN2	HUMA	Unmodified	9554300	8401700	8874400	143990	145090	124340	0	33664	27722
GVGAEPLLPWNR	XRN2	Q9H0D6	XRN2	HUMA	Deamidation (N)	574850	0	0	0	0	0	0	0	0
GVGAIYIR	NFS1	Q9Y697	NFS1	HUMA	Unmodified	1904500	2260700	1956500	84268	128510	171590	0	0	0
GVGASGSFR	H1-0	P07305	H10	HUMAN	Unmodified	70395000	70683000	77456000	5861400	5697500	6577800	430660	0	234150
GVGDDQLGEESEERDDHLLPM	M6PR; M6PR; M6PR	P20645; H0YF90;	MPRD	HUM	Oxidation (M)	1304100	1977100	1512800	66118	69302	65823	0	0	0
GVGGAPPTVTLLR	LRP1	Q07954	LRP1	HUMA	Unmodified	0	0	0	502430	408850	567360	64330	72761	0
GVGGAVPGAVLEPVAR	PKP3; PKP3; PKP3	Q9Y446; E9PKC4	PKP3	HUMA	Unmodified	1866600	2506500	2635900	244150	226640	234020	0	22415	0
GVGGKLPNFGFVVFDDSEPVQR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2	HUM	Unmodified	832420	642200	732380	0	0	0	0	0	0
GVGIISEGNETVEDIAAR	ATP1A1; ATP1A2; A	P05023; P50993; I	AT1A1	HUM	Unmodified	7126400	5439300	5677900	15019	0	10525	0	0	0
GVGIISEGNETVEDIAAR	ATP1A1; ATP1A2; A	P05023; P50993; I	AT1A1	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
GVGLGPGPMGLMGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2	HUM	2 Oxidation (M)	1649100	1362200	1562700	1053900	1007100	923750	684960	767520	664940
GVGQADWTPDLGLR	TNKS1BP1	Q9C0C2	TB182	HUM	Unmodified	595670	594990	840620	79523	70476	62258	80662	39156	31267
GVGSPEPGPTAPYLGR	ZDHHC5	Q9C0B5	ZDHC5	HUM	Unmodified	833140	1225000	800090	95837	121240	87588	35070	0	0
GVGTDEACLIEILASR	ANXA11	P50995	ANX11	HUM	Unmodified	0	0	0	0	0	0	0	0	0
GVGVALDDPYENYRR	CHERP; CHERP	Q8IWX8; J3QKB9	CHERP	HUM	Unmodified	1774300	1725000	1446600	0	0	0	0	0	0
GVHKEGSLGDELLPLGYSEPEQQEGASAGAPSPTLELASR	KCTD12	Q96CX2	KCD12	HUM	Unmodified	11391000	8743500	4181600	0	0	0	0	0	0
GVIDMGNSLIER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Oxidation (M);Deai	3713100	3956700	3228600	693520	408040	707380	0	29975	31461
GVIDMGNSLIER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Oxidation (M)	0	989460	0	87987	81243	63925	0	0	0
GVIINTASVAAFEGQVGQAAYSASK	HSD17B10	Q99714	HCD2	HUMA	Unmodified	1867200	1178700	0	0	0	0	0	0	0
GVISTPVIR	FAM120A; FAM120A	Q9NZB2; A0A0C4	F120A	HUM	Unmodified	5317500	5815600	4212000	1134500	991990	1086500	0	44981	37633
GVISYQTLPR	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5	HUM	Unmodified	1257000	1361900	1116300	131750	106900	107560	0	0	0
GVIVDKDFSHPQMPK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUMA	Oxidation (M)	5018800	3104300	7071600	33401	39099	96869	0	0	0
GVLEQEEKEEK	CLGN	O14967	CLGN	HUM	Unmodified	0	540760	681730	62535	0	80833	0	0	0
GVLFYGPPGCGK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	4759200	2483200	1308200	23420	0	0	0	0	0
GVLHQVMVLDSEALR	DNAJC11	Q9NVH1	DJC11	HUM	Oxidation (M)	403090	0	542900	0	0	0	0	0	0
GVLIEPVYPDIIR	PPP2R5B; PPP2R5B;	Q15173; E9PNY3	2A5B	HUMA	Unmodified	637960	447110	683990	0	0	0	0	0	0
GVLKVFLENVIRDAVTYTEHAK	H4C1	P62805	H4	HUMAN	Unmodified	111130	0	0	0	0	0	0	0	0
GVLLFGPPGTGK	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUMA	Unmodified	567140	688420	897980	21311	20687	12545	0	0	0
GVLLMLFGGVPK	MCM6	Q14566	MCM6	HUM	Oxidation (M)	2385000	1531900	2150700	0	0	0	0	0	0
GVLLYGPPGTGK	PSMC5; SPATA5; PS	P62195; Q8NB90;	PRS8	HUMA	Unmodified	5021700	5622200	5440500	97130	35341	103290	0	0	0
GVLMYGPPGTGK	PSMC3; PSMC3; PS	P17980; E9PN50;	PRS6A	HUM	Oxidation (M)	1874100	1167100	0	0	0	0	0	0	0
GVMGGQSAGPQHTEAETIQK	USO1	O60763	USO1	HUMA	Oxidation (M)	1649100	1376100	1244600	0	0	121900	0	0	0
GVMINKDVTHPR	CCT3; CCT3; CCT3;	P49368; Q5SZX6;	TCPG	HUMA	Oxidation (M)	4339200	4169200	4806400	267070	251430	321450	22711	0	16608
GVMINKDVTHPR	CCT3; CCT3; CCT3;	P49368; Q5SZX6;	TCPG	HUMA	Oxidation (M);Deai	991010	0	767690	62860	43321	43055	0	0	0
GVMLAVDAVIAELKK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Oxidation (M)	2160100	0	961800	0	0	0	0	0	0
GVNIGGAGSYIYEKPLAEGPQVTGPIEVPAAR	CRIP2; CRIP2	P52943; H0YFA4	CRIP2	HUM	Unmodified	80420000	75280000	53560000	0	0	0	0	0	0
GVNIGGAGSYIYEKPLAEGPQVTGPIEVPAAR	CRIP2; CRIP2	P52943; H0YFA4	CRIP2	HUM	Deamidation (N)	0	1585100	2284100	0	0	0	0	0	0
GVNIGGAGSYIYEKPLAEGPQVTGPIEVPAARAEER	CRIP2; CRIP2	P52943; H0YFA4	CRIP2	HUM	Unmodified	2473500	1961800	0	0	0	0	0	0	0
GVNLPGAAVDLPAVSEK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	7826300	6758300	5454800	86914	99949	13065	13745	71852	62851
GVNLPGAAVDLPAVSEKDIQDLK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	27727000	31326000	22188000	0	0	0	0	0	0
GVNPSLVSWLTTMMGLR	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6	HUMA	2 Oxidation (M)	916280	700100	860080	0	0	0	0	0	0
GVNTFSPEGR	PSMA5	P28066	PSA5	HUMA	Unmodified	4318300	2323200	3398900	0	0	0	0	0	0
GVNTGAVGSYIYDRDPEGK	CRIP2; CRIP2; CRIP	P52943; H0YHD8	CRIP2	HUM	Deamidation (N)	13238000	9911600	8996100	108330	151980	98364	34479	0	0
GVNTGAVGSYIYDRDPEGK	CRIP2; CRIP2; CRIP	P52943; H0YHD8	CRIP2	HUM	Unmodified	9932400	10322000	10567000	326760	267180	330410	62282	0	44323
GVNTGAVGSYIYDRDPEGKVQP	CRIP2; CRIP2; CRIP	P52943; H0YHD8	CRIP2	HUM	Unmodified	10515000	9264600	7683000	905800	325690	466980	702930	442220	193790
GVNTGAVGSYIYDRDPEGKVQP	CRIP2; CRIP2; CRIP	P52943; H0YHD8	CRIP2	HUM	Deamidation (N)	14787000	11122000	9504700	374100	212230	45751	382810	374110	297770
GVNVSALSR	ATP6V1A; ATP6V1A	P38606; C9JA17;	VATA	HUM	Unmodified	7592300	8701800	7400300	546210	574400	589770	59488	0	0
GVNWAAFHPTMPLIVSGADDR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUMA	Oxidation (M)	5770400	4894800	4530800	0	0	0	0	0	0
GVPAGNSDTEGGQPGR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU	HUM	Deamidation (N)	1392000	1625700	1415900	158060	98581	75357	0	0	0
GVPESLASGEGAGAGLPALDLAK	DDAH2; DDAH2; DI	O95865; Q5SSV3;	DDAH2	HUM	Unmodified	2414100	1553800	1613800	14690	0	0	0	0	0
GVPGFKGEKGEFGADGRK	COL6A2	P12110	CO6A2	HUM	4 Methyl (KR)	0	0	0	0	0	0	0	0	0
GVPGPPGAVGPAGK	COL1A1	P02452	CO1A1	HUM	Unmodified	1912000	2235100	1957800	1383700	1875400	1325700	327800	315130	311400
GVPGPPGAVGPAGKDGEAGAQGPPGPAGPAGER	COL1A1	P02452	CO1A1	HUM	Unmodified	0	0	0	228360	0	0	65031	0	0
GVPGQVDFYAR	PDK1; PDK1	Q15118; F8WEJ6	PDK1	HUMA	Unmodified	2398800	2742000	2268300	47667	0	54753	0	11494	0
GVPHPEDDHSQVEGPESLR	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Unmodified	2947000	3304100	1888700	434460	464070	321170	194200	127560	138430
GVPLVYEAFNWR	PCK2; PCK2	Q16822; H0YM31	PCKGM	HUM	Unmodified	853080	946500	801400	0	0	0	0	0	0
GVPQQIEVAR	FUBP3	Q96I24	FUBP3	HUM	Unmodified	16371000	12029000	12818000	0	0	0	0	0	0
GVPTGFILPIR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	15454000	18409000	12958000	0	0	25117	0	14100	0
GVPTGFILPIRDIR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	13652000	13183000	11682000	14963	0	0	0	0	0
GVPYRPTDLFDELVAHEVAR	SBF1	O95248	MTMR5	HUM	Unmodified	857390	317350	1904300	0	0	0	0	0	0
GVQGPPGPAGPR	COL1A1	P02452	CO1A1	HUM	Unmodified	1895400	1573200	2421600	244370	237580	278680	0	0	0
GVQTLVIGR	AAMDC; AAMDC; A	Q9H7C9; K4DI89	AAMDC	HUM	Unmodified	708410	779900	1431100	0	0	0	0	0	0
GVQVETISPGDGR	FKBP1A; FKBP1A; F	P62942; Q5W0X3	FKB1A	HUM	Unmodified	12022000	9471600	11056000	779680	585850	578520	27912	0	0
GVQVETISPGDGRTFPK	FKBP1A; FKBP1A; F	P62942; Q5W0X3	FKB1A	HUM	Unmodified	9428000	10736000	10754000	2004900	1947800	1788600	554650	212920	524870
GVQYLNEIK	EEF2	P13639	EF2	HUMAN	Deamidation (N)	449270	0	557550	0	0	0	0	0	0
GVRPVSFSDWEK	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	840180	792200	798180	0	0	0	0	0	0
GVRPVSFSDWEKLDAEEVAR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	11807000	2744300	10149000	0	0	0	0	0	0
GVSCQFGPDVTK	PPP5C; PPP5C; PPP	P53041; A8MU39	PPP5	HUMA	Unmodified	681570	919690	0	0	0	0	0	0	15416
GVSIPLMHEAMQK	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2	HUM	2 Oxidation (M)	267160	460520	0	0	0	0	0	0	0
GVSKAVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Unmodified	3193900	2910200	3759000	0	0	0	0	0	0
GVSKAVEHINKTIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	4 Methyl (KR);Deam	0	974990	0	0	0	0	0	0	0
GVSQMPLR	ATIC; ATIC	P31939; C9JLK0	PUR9	HUMA	Oxidation (M)	10081000	10581000	12465000	0	0	0	0	0	0
GVSTFMAEMLETASILR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUMA	2 Oxidation (M)	1646300	1743200	2296900	0	0	0	0	0	0
GVSVWPVGLVGGLR	B3GAT3; B3GAT3	O94766; G3V150	B3GA3	HUM	Unmodified	1226300	1507800	1082800	0	0	0	0	0	0
GVTAKGPVNSCQGKNYNLKVTLPGLK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	2 Methyl (KR);2 D	1280600	948010	783640	0	0	0	0	0	0
GVTEAIQNFSFR	CLASP2; CLASP2; C	O75122; E7EW49	CLAP2	HUM	Unmodified	1093500	839520	0	0	0	0	0	0	0
GVTFLFPIQAK	DDX21	Q9NR30	DDX21	HUM	Unmodified	6681700	6608600	6497500	0	0	0	0	0	10641
GVTFNVTTVDTK	CLIC1	O00299	CLIC1	HUM	Unmodified	1888500	0	0	64497	52817	45569	0	0	0
GVTFNVTTVDTKR	CLIC1	O00299	CLIC1	HUM	Unmodified	727940	603490	0	0	0	30628	0	0	0
GVTIASGGVLPNIHPELLAK	MACROH2A1; MAC	O75367; D6RCF2	H2AY	HUM	Unmodified	5309600	1922000	3775900	0	0	0	0	0	0
GVTIASGGVLPR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW	HUM	Unmodified	9988000	8388900	8831600	189780	199810	212850	0	0	0
GVTIKPTVDDD	EIF2S3; EIF2S3B	P41091; Q2VIR3	IF2G	HUMA	Unmodified	2893900	2677900	3414100	313040	297260	379720	27042	0	31763
GVTMDVGMTKFETTTK	HBS1L; HBS1L; HBS	Q9Y450; J3QT46;	HBS1L	HUM	2 Oxidation (M)	0	856360	636210	0	0	0	0	0	0
GVTQFGNK	NUDT21	O43809	CPSF5	HUM	Unmodified	2456900	1953900	2898800	0	0	0	0	0	0
GVTQFGNKYIQQTKPLTLER	NUDT21	O43809	CPSF5	HUM	Deamidation (N)	15266000	14607000	15364000	275840	236310	113970	0	28990	0
GVTQRLDLPDLPLSDILK	SPECC1; SPECC1; S	Q5M775; A0A7P0	CYTSB	HUM	Unmodified	928920	85307	466360	0	0	0	0	0	0
GVTSISADTHK	SGPL1	O95470	SGPL1	HUM	Unmodified	0	1553000	1560000	75241	0	88406	0	0	0
GVTSVSQIFHSPDLAIR	SERPINC; SERPINC	P05155; A0A7I2V	IC1	HUMAN	Unmodified	1338200	1335800	1296200	0	0	0	27399	15832	17053
GVTYLFPIQVK	DDX50	Q9BQ39	DDX50	HUM	Unmodified	2856500	2107600	2815700	0	14614	0	0	0	0
GVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL	HUMA	Unmodified	14824000	30603000	32900000	554390	536870	138930	60652	25855	0
GVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL	HUMA	Deamidation (N)	0	0	856420	0	0	0	0	0	0
GVVDSEDLPLNISR	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B	HUM	Unmodified	235780000	180170000	148750000	1116000	1057200	608030	136140	175010	103410
GVVDSEDLPLNISREMLQQSK	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B	HUM	Oxidation (M)	3047700	10564000	6964900	0	0	0	0	0	0
GVVEVTHDLQK	SERPINH1; SERPINH	P50454; E9PKH2;	SERPH	HUM	Unmodified	4455900	4797400	5411700	0	0	0	0	0	0
GVVFDVTSGKEFYGR	NENF	Q9UMX5	NENF	HUM	Unmodified	24374000	19412000	21776000	284850	190620	123630	28880	39258	20160
GVVFNEMK	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2S	PREP	HUM	Oxidation (M);Deai	519100	728210	857700	0	0	0	0	0	0
GVVGGKMDENRFVAVTSSNAAK	DPYSL5	Q9BPU6	DPYL5	HUM	Oxidation (M)	1670200	1469300	1660400	0	0	0	0	0	0
GVVGLPGQRGER	COL1A1	P02452	CO1A1	HUM	Unmodified	521540	410730	498820	257140	290370	190560	0	0	0
GVVGPGPAAIAALGGGGAGPPVVGGGGGR	OSBP	P22059	OSBP1	HUM	Unmodified	6086800	5491100	4922300	89723	46654	34547	0	0	0
GVVGPQGAR	COL1A2; COL1A2	P08123; A0A087	CO1A2	HUM	Unmodified	228520000	166060000	173970000	151750000	152210000	171710000	146380000	153050000	143670000
GVVLFPWQAR	POLDIP2	Q9Y2S7	PDIP2	HUM	Unmodified	1409800	2014900	1253600	12262	0	0	0	0	0
GVVMLNR	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUMA	Oxidation (M)	1724200	1702100	667070	65405	0	0	0	0	0
GVVPFQAGSR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV	HUM	Unmodified	850870	1040200	0	82216	60637	62699	0	0	0
GVVPLAGTDGETTTQGLDGLSER	ALDOC; ALDOC; AI	P09972; J3QKP5;	ALDOC	HUM	Unmodified	21419000	30235000	28565000	166390	108390	45895	0	0	0
GVVQELQQAISK	EEF1D; EEF1D; EEF	P29692; E9PL71;	EF1D	HUM	Unmodified	5208800	3125500	2703300	15027	16942	27827	21536	11009	20306
GVVQELQQAISKLEAR	EEF1D; EEF1D; EEF	P29692; E9PL71;	EF1D	HUM	Unmodified	3852600	476400	3452300	0	0	0	0	0	0
GVVQELQQAISKLEAR	EEF1D; EEF1D; EEF	P29692; E9PL71;	EF1D	HUMA	Methyl (KR)	195830	0	0	0	0	0	0	0	0
GVVTAEMFR	STAG2; STAG2; STA	Q8N3U4; B1AMT	STAG2	HUM	Oxidation (M)	0	0	456820	0	0	0	0	0	0

GVVPDLLATSGDYLR	DCAF7	P61962	DCAF7_HUM	Unmodified	5085600	4264700	3295500	0	0	0	0	0	0
GVYSEETLR	IMMT; IMMT; IMM1	Q16891; A0A087	MIC60_HUM	Unmodified	5106400	4631100	0	99275	139710	0	0	0	0
GWDEALLTMSK	FKBP3	Q00688	FKBP3_HUM	Oxidation (M)	2069400	1841800	1983900	0	0	0	0	0	0
GWDEALLTMSKGEK	FKBP3	Q00688	FKBP3_HUM	Oxidation (M)	2252400	2498400	1100600	0	0	0	0	0	0
GWEEGVAQMSVGQR	FKBP1A; FKBP1A; F	P62942; F6T7Q3;	FKB1A_HUM	Oxidation (M)	13967000	10304000	12820000	251630	193660	198930	0	0	0
GWFDAEGQALDGVSISDLK	RPA1; RPA1	P27694; I3L4R8	RFA1_HUM	Unmodified	2760700	423880	1518100	0	0	0	0	0	0
GWGDSVGTPSER	ABHD12; ABHD12;	Q8N2K0; A0A5F9	ABD12_HUM	Unmodified	711190	725250	617280	0	0	0	0	0	0
GWLKSNVSDAVAQSTR	TPI1	P60174	TPIS_HUMA	Unmodified	2265200	1670500	1989600	0	0	0	0	0	0
GWLRDPSASPGDAGEQAIR	VCL	P18206	VINC_HUMA	Unmodified	3524400	3559200	3168500	126910	112930	118700	33006	38789	0
GWNILTNSEKSKKAR	NDUFS1; NDUFS1	P28331; C9JPQ5	NDUS1_HUM	3 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
GWNWGTVK	SSRP1; SSRP1; SSR	Q08945; E9PMD4	SSRP1_HUM	Unmodified	787900	496300	615500	0	0	0	0	0	0
GWPLELLCEK	ILF3; ILF3	Q12906; K7EQR9	ILF3_HUMA	Unmodified	840030	619180	791780	0	0	0	0	0	0
GWPLYLSTK	IDH1	O75874	IDHC_HUMA	Unmodified	1534900	1331600	1523500	23885	26531	18855	0	0	0
GWQDVTATSAYK	TPD52; N/A	P55327; H0YC42	TPD52_HUM	Unmodified	0	2094600	2237300	0	0	0	0	0	0
GWQDVTATSAYKK	TPD52; N/A	P55327; H0YC42	TPD52_HUM	Unmodified	2966400	2089700	2643900	0	0	0	0	0	0
GWVTFDR	SRRT; SRRT	Q9BXP5; H7C3A	SRRT_HUMA	Unmodified	1200700	1259000	724910	0	9132.4	0	0	0	0
GYADIVQLLLAK	OSTF1	Q92882	OSTF1_HUM	Unmodified	929710	658940	1008400	0	0	0	0	0	0
GYADSPSK	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1_HUMA	Unmodified	2911600	3782000	3207600	267160	0	0	0	0	0
GYAEVVVASENSVHK	CPSF7; CPSF7; CPSF	Q8N684; C9J323;	CPSF7_HUM	Deamidation (N)	779190	642170	711430	0	0	0	0	0	0
GYAFIEFASFEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	1564000	837700	1666400	0	0	0	0	0	0
GYAFIEYEHER	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Unmodified	2170900	2620200	2673600	0	0	0	0	0	0
GYAFITFCGK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	792490	820530	910350	0	0	16352	0	0	0
GYAFVQYSNER	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Unmodified	1017500	1019300	1110700	0	0	100780	0	0	0
GYAFVQYSNER	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Deamidation (N)	943050	974840	1022000	0	0	0	0	0	0
GYAQMAPVQPR	LAMA5	O15230	LAMA5_HUM	Oxidation (M)	646410	413190	435840	98309	82048	114720	0	0	0
GYAVLGGER	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	5060400	5855100	4625600	179820	182140	201560	0	31831	0
GYAVNVFDIQQGFDNPQVR	NSDHL; NSDHL	Q15738; C9JDR0	NSDHL_HUM	Unmodified	0	0	0	0	0	0	0	0	0
GYAYVEFENPDEAEK	RNPS1; RNPS1; RNP	Q15287; H3BMS0	RNPS1_HUM	Unmodified	5653300	6062400	5749500	156340	166440	177720	0	0	0
GYAYVEFENPDEAEKALK	RNPS1; RNPS1; RNP	Q15287; H3BMS0	RNPS1_HUM	Unmodified	1403500	1743700	1539600	0	0	0	0	0	0
GYDDRDYYSR	TRA2B; TRA2B; TR	P62995; H7C2L4;	TRA2B_HUM	Unmodified	13848000	13274000	13983000	869440	779690	864710	0	0	0
GYDELVPHQISVVSEER	AGL	P35573	GDE_HUMA	Unmodified	608410	546840	663970	0	0	0	0	0	0
GYDRGYDDRDYYSR	TRA2B; TRA2B; TR	P62995; H7C2L4;	TRA2B_HUM	Unmodified	4394700	4836000	3724100	288950	161090	197560	0	0	29944
GYDSDNPR	MMUT	P22033	MUTA_HUM	Unmodified	488400	581760	641930	118050	122950	0	0	0	0
GYDVIAQAQSGTGK	EIF4A1; EIF4A2; EIF	P60842; Q14240;	IF4A1_HUMA	Unmodified	3942600	2205900	4028700	89674	0	63890	0	0	0
GYDYGPHFQGILEASLEGDSGR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
GYEEWLLNEIR	ACTN2; ACTN4; AC	P35609; O43707;	ACTN2_HUM	Unmodified	525020	261870	380390	0	0	0	0	0	0
GYEEWLLNEIRR	ACTN2; ACTN4; AC	P35609; O43707;	ACTN2_HUM	Unmodified	744500	0	503860	0	0	0	0	0	0
GYEGQYCER	LAMA2; LAMA2; L/	P24043; A0A087	LAMA2_HUM	Unmodified	0	0	0	257870	176980	379010	0	0	0
GYEIDEDIVSR	TOR1A	O14656	TOR1A_HUM	Unmodified	2565700	1450300	2325000	107860	116820	85645	0	0	0
GYELLFQPEVVR	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Unmodified	2352600	2995400	2800300	11421	13845	0	0	0	0
GYESFGVHR	GBE1; GBE1	Q04446; E9PGM4	GLGB_HUM	Unmodified	1319900	1065500	806280	51769	47271	51084	0	0	0
GYEYVLEPSPVSLPLDRPQETR	RCC1L; RCC1L	Q96I51; A0A087	RCC1L_HUM	Unmodified	1698200	0	1887200	0	0	0	0	0	0
GYFDEEMNR	PLEC; EPPK1; PLEC	Q15149; P58107;	PLEC_HUMA	Oxidation (M)	1131300	1153200	890230	168460	174160	195310	0	0	0
GYFEHR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	0	1328900	1516300	79636	73602	0	0	0	0
GYFEYIEENK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	2652400	2831900	3032200	137080	131480	136930	0	0	0
GYFEYIEENK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Deamidation (N)	0	801710	0	0	0	0	0	0	0
GYFEYIEENKYSR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Deamidation (N)	26796000	27824000	28811000	632610	611250	536900	82357	162820	101780
GYFEYIEENKYSR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	58343000	58212000	67025000	1500400	1562200	1456100	266800	245520	237650
GYFEYIEENKYSR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Methyl (KR)	1415000	0	1523000	0	0	0	0	0	0
GYFNEELSEILSDPSDDTK	DSP	P15924	DESP_HUMA	Unmodified	2175500	419640	0	0	0	0	0	0	0
GYFNEELSEILSDPSDDTK	DSP	P15924	DESP_HUMA	Deamidation (N)	342130	247970	242710	0	0	0	0	0	0
GYFSEEMNR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M);Dea	383060	385170	277340	83227	41850	71513	0	0	0
GYFSEEMNR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	1119300	1412900	1617900	297850	299050	343530	0	47402	0
GYFVQPTVFSNVTDEMR	ALDH1A1	P00352	AL1A1_HUM	Oxidation (M)	494120	487810	404440	0	0	0	0	0	0
GYGFIEYEK	PUF60; PUF60; PUF	Q9UHX1; A0A0J9	PUF60_HUM	Unmodified	2263500	1792300	2009400	76452	124880	115390	0	0	0
GYGLFAGPCK	PRKDC	P78527	PRKDC_HUM	Unmodified	1031200	780830	699100	0	0	0	0	0	0
GYGPATQVR	HCFC2; HCFC1; HCI	Q9Y5Z7; P51610;	HCFC2_HUM	Unmodified	1276200	1055000	707120	0	0	0	0	0	0
GYGYGQGAGTLNMDRGER	CSRP2; CSRP2; CSR	Q16527; F8VQR7	CSRP2_HUM	Oxidation (M)	937140	827250	873070	84791	100500	90541	32927	0	0
GYGYGQGAGTLNMDRGER	CSRP2; CSRP2; CSR	Q16527; F8VQR7	CSRP2_HUM	Oxidation (M);Dea	0	926760	1588500	0	0	97245	0	0	0
GYGYGQGAGTLSTDK	CSRP1; CSRP1; CSR	P21291; E9PND2;	CSRP1_HUM	Unmodified	706650	690370	603180	0	0	0	0	0	0
GYGYGQGAGTLSTDKGESLGIK	CSRP1; CSRP1; CSR	P21291; E9PND2;	CSRP1_HUM	Unmodified	2536100	2658700	3016400	39783	0	35727	35625	29211	0
GYGYGQGAGTLSTDKGESLGIKHEEAPGHRPTTNPNASK	CSRP1; CSRP1; CSR	P21291; E9PND2;	CSRP1_HUM	Unmodified	0	0	2324900	0	0	0	0	0	0
GYIGVVNR	DNM2; DNM1; DNM	P50570; Q05193;	DYN2_HUMA	Unmodified	1203400	1314100	1170900	68630	41199	72097	0	0	0
GYILQEDGR	FBN1	P35555	FBN1_HUMA	Unmodified	0	0	0	84219	91743	94398	82286	67437	0
GYIPIYTPFFMR	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Oxidation (M)	2424800	2313400	2067300	0	0	0	0	0	0
GYISPYFINTSK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	12681000	13495000	12955000	341920	241230	306410	0	14387	0
GYISPYFINTSK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Deamidation (N)	17122000	16142000	11336000	72153	295660	291270	0	0	0
GYIYWR	AP1B1; AP2B1; AP2	Q10567; P63010;	AP1B1_HUM	Unmodified	888220	1072900	1276300	0	0	0	0	0	0
GYLADPAKFPEAR	MRPL15; MRPL15	Q9P015; E5RIZ4	RM15_HUMA	Unmodified	1797500	1389900	1319700	0	38260	26873	0	0	0
GYLDDPTVPR	G6PD; G6PD	P11413; E7EUI8	G6PD_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
GYLNKDTHDQLSEPSEVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1967200	1210200	3301500	231150	142920	258890	33232	23623	0
GYMTQFPTFPSWLGK	RFC1	P35251	RFC1_HUMA	Oxidation (M)	0	180540	322700	0	0	0	0	0	0
GYNDDYYEESYFTTR	EMD; EMD	P50402; Q5HY57	EMD_HUMA	Deamidation (N)	0	732200	847870	0	28580	0	0	0	0
GYPHWPAR	PSIP1; HDGFL2; HD	O75475; Q7Z4V5;	PSIP1_HUMA	Unmodified	1022400	1529000	1240900	0	0	0	0	0	0
GYPNERFELLTNFPR	UBXN7; UBXN7	O94888; C9JAT7	UBXN7_HUM	Deamidation (N)	815060	801410	0	0	0	0	0	0	0
GYPPEDIFNLVGK	NANS	Q9NR45	SIAS_HUMA	Unmodified	1841300	1528100	564760	0	0	0	0	0	0
GYPPEDIFNLVGKK	NANS	Q9NR45	SIAS_HUMA	Unmodified	8176900	4923900	4744500	203580	175130	97854	66948	62593	64118
GYPPEDIFNLVGKK	NANS	Q9NR45	SIAS_HUMA	Methyl (KR)	3318700	3312900	0	69009	47131	0	17131	0	0
GYPTIKFFRNGDTASPK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	4694300	5540900	5720200	861310	913280	764040	0	0	0
GYPTLLLFR	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	21731000	24794000	22607000	0	435800	0	0	91394	98239
GYPTLLWFR	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	3199300	2625700	2053700	0	0	0	0	0	0
GYSFSLTTFSPSGK	PSMA2; N/A; PSMA2	P25787; A0A7I2V	PSA2_HUMA	Unmodified	6023400	4684700	3940800	0	0	0	0	0	0
GYSFTTTAER	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Unmodified	276910000	279020000	258910000	982070	891290	880730	137590	137040	98959
GYSFTTTAEREIVR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Unmodified	46295000	41231000	40711000	378920	200140	350490	51678	149370	52498
GYSFTTTAEREIVRDIK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Unmodified	2618900	2082500	2552900	0	0	0	0	0	0
GYSFVTTAER	ACTC1; ACTA1; AC	P68032; P68133;	ACTC_HUMA	Unmodified	0	0	0	0	0	0	0	142580	0
GYSLVSGGTDNHLVLVDLRPK	SHMT2; SHMT2; SH	P34897; H0YIZ0;	GLYM_HUM	Unmodified	1533000	444590	1054500	0	0	0	0	0	0
GYSLVSGGTDNHLVLVDLRPK	SHMT2; SHMT2; SH	P34897; H0YIZ0;	GLYM_HUM	Deamidation (N)	0	1434900	1626100	0	0	0	0	0	0
GYTLVEYETYK	RBM8A; RBM8A	Q9Y5S9; A0A0J9	RBM8A_HUM	Unmodified	1490500	1517900	1422200	0	32469	0	0	0	0
GYVGSIQPHGVFFR	PDCD11; PDCD11	Q14690; A0A3B3	RRP5_HUMA	Unmodified	7330400	2686100	4836300	0	0	0	0	0	0
GYVQDPFAALLVPGAAR	LCMT2	O60294	TYW4_HUM	Unmodified	316680	258750	177070	0	0	0	0	0	0
GYYSPGIVSTR	GTF3C1	Q12789	TF3C1_HUM	Unmodified	2567000	2145900	1679700	167180	155920	123150	0	21594	0
HAAENPGKYNILGTNTIMDK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Oxidation (M)	6214500	7269900	7039100	0	92977	199410	0	0	0
HAAENPGKYNILGTNTIMDK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Oxidation (M);Dea	5494100	5074100	3346400	0	0	0	0	0	0
HAAENPGKYNILGTNTIMDKMMVAGFKK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	3 Oxidation (M)	0	2860300	0	0	0	0	0	0	0
HADAEMTGYVVTR	MAPK13; MAPK13	O15264; Q5R3E6	MK13_HUMA	Oxidation (M)	461140	496030	419630	0	0	0	0	0	0
HADHSSLTLGSGSSTTR	HUWE1	Q7Z6Z7	HUWE1_HUM	Unmodified	3003300	2041200	2948700	0	0	0	0	0	0
HAEKAPTNIVYKIDDMTAAPMDVR	RPA2; RPA2	P15927; Q5TEJ7	RFA2_HUMA	2 Oxidation (M)	4280500	4602800	7084400	0	0	0	0	0	0
HAEMVHTGLKLER	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1_HUMA	Oxidation (M)	1405000	0	0	0	0	0	0	0	0
HAEQERDELADEITNSASGK	MYH10	P35580	MYH10_HUM	Deamidation (N)	384060	451880	502650	0	40476	48368	0	0	0
HAESVGDGER	LRPAP1	P30533	AMRP_HUM	Unmodified	0	0	0	259400	847960	64951	0	0	0
HAGTPLYLGATAGMR	ENTPD2	Q9Y5L3	ENTP2_HUM	Oxidation (M)	8128500	6469200	7297400	0	0	0	0	0	0
HAHGDQYK	IDH2	P48735	IDHP_HUMA	Unmodified	0	19523	94536	0	0	0	0	0	0
HAHGDQYKATDFVADR	IDH2	P48735	IDHP_HUMA	Methyl (KR)	1000600	825890	0	44386	0	43213	0	0	0
HAHGDQYKATDFVADR	IDH2	P48735	IDHP_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
HAHSSSLQQAASR	SVIL; SVIL	O95425; A0A68P	SVIL_HUMA	Unmodified	235130	265240	264190	30688	26568	31165	16308	20784	14551
HAIPNLVK	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Unmodified	708060	881510	1102900	0	0	0	0	0	0
HAIYDKLDDDGLIAPGVR	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2_HUMA	Unmodified	522120	407960	355860	0	0	0	0	0	0
HALIIYDDLSK	ATP5F1A	P25705	ATPA_HUMA	Unmodified	3497200	1640400	1520500	28220	0	0	0	0	0
HAMNLEAVNTYEGTHDIHALILGR	GCDH	Q92947	GCDH_HUM	Oxidation (M)	7162300	5604200	3580400	0	0	0	0	0	0
HANAKPFEVPFLKF	NUDT5; NUDT5	Q9UKX9; A6NFX	NUDT5_HUM	Unmodified	1108900	1066500	0	0	0	0	0	0	0
HANAKPFEVPFLKF	NUDT5; NUDT5	Q9UKX9; A6NFX	NUDT5_HUM	Deamidation (N)	1719100	2199400	1924700	0	0	0	0	0	0
HAPGLIAALAYETANFYQK	BROX; BROX	Q5VW32; F5GXQ	BROX_HUM	Unmodified	548630	0	805540	0	0	0	0	0	0
HAPSPEPAVQGTGVAGVPEESGDAAAIPAK	UNG	P13051	UNG_HUMA	Unmodified	978690	776080	890750	0	0	0	0	0	0
HAQAQYAYPGAR	NID2; NID2; NID2	Q14112; H0YJV3;	NID2_HUMA	Unmodified	742210	890010	551270	1332100	2044700	2206900	282600	0	328410
HASPILPITEFSDIPR	TMPO; TMPO; TMP	P42167; G5E972;	LAP2B_HUM	Unmodified	31754000	35561000	35260000	45642	35606	34009	0	0	0
HATALEELSEQLEQAKR	MYH10	P35580	MYH10_HUM	Unmodified	3011700	3127300	2917800	0	0	0	0	0	0
HATALEELSEQLEQAKR	MYH10	P35580	MYH10_HUM	Methyl (KR)	412410	272500	347750	0	0	0	0	0	0
HATIVPTEEELQAVQK	ZFR; ZFR	Q96KR1; H0YKW	ZFR_HUMAN	Unmodified	1139300	1091100	0	0	0	0	0	0	0
HAVSEGTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Unmodified	63927000	100210000	110580000	3907500	52419000	3270200	0	0	0
HAVSEGTKAVTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Unmodified	58210000	68017000	56706000	5248600	4628700	4557600	201640	296350	235100
HAVSEGTKAVTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Methyl (KR)	61002000	47113000	43705000	949090	865780	808090	51768	40909	43658
HAVSEGTKAVTKYTSAK	H2BC11; H2BC12; H	P06899; O60814;	H2B1J_HUM	Unmodified	3288700	7792600	7038200	2654000	2829500	2202200	383080	283720	197740
HAVSEGTKAVTKYTSAK	H2BC11; H2BC12; H	P06899; O60814;	H2B1J_HUM	Methyl (KR)	2130990	2384600	3066100	283800	79317	375170	0	17784	0
HAVSEGTKAVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Unmodified	26364000	31123000	31715000	10856000	14117000	12365000	931250	992500	1104200
HAVSEGTKAVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	Methyl (KR)	11777000	11452000	14379000	1188000	1355900	920520	140580	96493	164640
HAVSEGTKAVTKYTSSK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1_HUM	2 Methyl (KR)	1783300	1620000	2264900	0	0	0	0	0	0
HAVVNLINYQDDAELATR	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1_HUM	Unmodified	5121000	6013700	4821500	22732	42324	0	0	0	0
HAYSFHQSSEEAGDFLAHADLQR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	1000400	859220	1347700	0	0	0	0	0	0
HDADGQATLLNLLLR	PSMD3	O43242	PSMD3_HUM	Unmodified	1332300	1086800	1267800	0	0	0	0	0	0
HDELTYF	CSTB; CSTB	P04080; A0A1W2	CYTB_HUMA	Unmodified	2358300	3199000	2110200	339960	341890	359640	0	0	0
HDGYGSHGPLLPLPSR	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL_HUM	Unmodified	1227300	797330	641350	0	0	0	0	0	0

HDPTFEPLFPSETTLNPSLAQEAAK	SUSD2	Q9UGT4	SUSD2_HUM	Unmodified	7614000	7428100	7462900	0	0	0	0	0	0
HDSPEDVK	STIP1; STIP1	P31948; H0YGI8	STIP1_HUMA	Unmodified	1012100	874250	1266200	27370	32030	0	0	0	0
HDVGAYMLMYK	PRKDC	P78527	PRKDC_HUM	2 Oxidation (M)	2506300	2936200	2947800	0	0	0	0	0	0
HEEAPGHRPTTNPNASK	CSRP1; CSRP1; CSR	P21291; E9PND2;	CSRP1_HUM	Deamidation (N)	1373400	982490	1778600	0	0	0	0	0	0
HEEEAFTAFTPAPEDSLASVPYPPLLR	MRPS34; MRPS34	P82930; C9JJ19	RT34_HUMA	Unmodified	685730	0	0	0	0	0	0	0	0
HEEEFDLFMR	SMARCA4; SMARC	P51532; A0A2R8	SMCA4_HUM	Oxidation (M)	1651200	2170700	1240200	44438	0	0	0	0	0
HEERQDEHGYISR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	0	375320	539090	0	0	0	0	0	0
HEHQVMLMR	NONO; NONO; NON	Q15233; A0A72V	NONO_HUM	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
HEIEGTGLPQAQLLWR	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	1029700	786190	900110	0	0	0	0	0	0
HEILSRDPLLLAIIPK	XPO5; XPO5	Q9HAV4; H0Y9I3	XPO5_HUMA	Unmodified	1054500	962350	331470	0	0	0	0	0	0
HELLLGAGSGPGAGQQQATPGALLQAGPPR	SNRNP40	Q96DI7	SNR40_HUM	Unmodified	774210	918560	688470	0	0	0	0	0	0
HEMLPASLIQAQR	PGD	P52209	6PGD_HUMA	Oxidation (M)	736830	784680	613990	0	0	0	0	0	0
HEMLPEFYK	CAND1; CAND1; CA	Q86VP6; A0A0C4	CAND1_HUM	Oxidation (M)	1773800	1576800	1473200	0	0	62673	0	0	0
HEMPPHIYAITDTAYR	MYH9; MYH9	P35579; Q5BKV1	MYH9_HUMA	Oxidation (M)	912900	737540	706370	0	0	0	0	0	0
HEQILVLDPPTDLK	VAPA; VAPA	Q9P0L0; J3QKM5	VAPA_HUMA	Unmodified	4525000	3843800	3816100	66901	45433	62952	0	0	0
HESGASIKIDEPLEGSEDR	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUM	Unmodified	5229600	5507100	4242600	140620	0	245760	0	0	0
HETLTSLNLEK	FAM162A; FAM162	Q96A26; F8W7Q4	F162A_HUM	Unmodified	2001400	2368600	1788100	0	72903	0	0	0	0
HETWSGHVISS	CARHSP1	Q9Y2V2	CHSP1_HUM	Unmodified	1006300	808900	780630	0	0	0	0	0	0
HFCPNVPIILVGNKK	RHOA; RHOC; RHO	P61586; P08134;	RHOA_HUM	Unmodified	1274600	1555800	1216100	0	0	0	0	0	0
HFDETVNR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	2127400	1101000	0	57581	58279	131550	0	0	0
HFEATDILVSK	EIF5B; EIF5B	O60841; A0A087	IF2P_HUMAN	Unmodified	750690	785520	837370	14963	19189	0	0	0	0
HFFLYGEFPGDER	XRCC1; XRCC1	P18887; F5H8D7	XRCC1_HUM	Unmodified	1426800	373870	3511700	0	0	0	0	0	0
HFHPLFEYFDYESR	VPS35	Q96QK1	VPS35_HUM	Unmodified	363390	0	294260	0	0	0	0	0	0
HFLLEEDKPEEPTAHAFVSTLTR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	6094200	8295000	8301200	0	0	0	0	0	0
HFRPELEER	NDUFV1; NDUFV1;	P49821; B4DE93;	NDUV1_HUM	Unmodified	1776500	1314500	1277600	0	207860	0	0	0	0
HFSGLEEAVYR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	8059200	7728200	5725600	144870	112400	64232	0	0	0
HFSVEGQLEFR	HSP90AA2P; HSP90	Q14568; P08238;	HS902_HUM	Unmodified	2773100	2403400	2440900	0	0	0	0	0	0
HFSVTAEGGLSPAQVTGAR	ATP2A3	Q93084	AT2A3_HUM	Unmodified	3411500	1746600	2547900	56945	0	0	0	0	0
HFVALSTNTTK	GPI; GPI; GPI; GPI; C	P06744; A0A0J9	G6PI_HUMA	Unmodified	2210700	1654100	966980	0	0	0	0	0	0
HFVALSTNTTK	GPI; GPI; GPI; GPI; C	P06744; A0A0J9	G6PI_HUMA	Deamidation (N)	1587400	978410	2473700	0	0	0	0	0	0
HFWGLR	RPS18; RPS18	P62269; J3JS69	RS18_HUMA	Unmodified	824410	0	800280	0	0	0	0	0	0
HGAGAEISTVNPEQYSK	PIP4K2B; PIP4K2A;	P78356; P48426;	PI42B_HUM	Unmodified	477110	783110	0	50669	51076	0	0	0	0
HGATHVFASK	SMARCA1; SMARC	P28370; O60264;	SMCA1_HUM	Unmodified	0	1016300	722700	0	0	0	0	0	0
HGDLPDIQIK	PRKDC	P78527	PRKDC_HUM	Unmodified	3013200	3025800	2652000	82673	199160	155160	64942	57499	71203
HGDPGDAAQQEAK	PDCD5; PDCD5; PDC	O14737; X6R2P6;	PDCD5_HUM	Unmodified	2720300	1936500	3801000	93781	69459	94464	0	0	0
HGDPGDAAQQEAKHR	PDCD5; PDCD5	O14737; K7ESJ4	PDCD5_HUM	Unmodified	278340	302460	284320	22073	35649	23503	0	0	0
HGDVITIIDR	MKI67	P46013	KI67_HUMA	Unmodified	658650	1356500	1611900	0	0	0	0	0	0
HGEIDYEAIVK	PSMC6; PSMC6	P62333; A0A087	PRS10_HUM	Unmodified	3491800	1200500	3284700	32683	45757	0	9103.4	0	0
HGESAWNLENR	PGAM1	P18669	PGAM1_HUM	Unmodified	5253700	5808300	4572000	30617	0	0	0	0	0
HGESAWNLENRFSGWYDADLSPAGHEEAKR	PGAM1	P18669	PGAM1_HUM	Unmodified	3115800	1253800	1711500	0	0	0	0	0	0
HGFSDNQKLWER	PCNP	Q8WW12	PCNP_HUMA	Unmodified	1445300	1060100	623190	0	0	0	0	0	0
HGGEDYVFSLLTGYCEPPTGVSLR	CYC1	P08574	CY1_HUMAN	Unmodified	345030	212960	463430	0	0	0	0	0	0
HGGLSLVQTTDYIYPIVDDPYMMGR	SEPHS1; SEPHS1; SI	P49903; Q5T5U6;	SPS1_HUMA	2 Oxidation (M)	8154600	6391400	7943000	0	0	0	0	0	0
HGGPGPGGPEPELSPITEGSEAR	PPP1R13L	Q8WUF5	IASPP_HUM	Unmodified	3814300	3734700	3076800	88458	87199	88808	0	81473	0
HGGSLGLGLAAMGTAR	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1_HUM	Oxidation (M)	5223000	2613100	3974100	0	0	0	0	0	0
HGGYKPSDEHKTDLNPDNLQGGDDLDPNYVLSSR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Unmodified	52558000	48802000	56257000	0	0	0	0	0	0
HGGYKPSDEHKTDLNPDNLQGGDDLDPNYVLSSR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Deamidation (N)	1596200	2056200	622480	0	0	0	0	0	0
HGIPTAQWK	GART; GART; GAR1	P22102; C9JZG2;	PUR2_HUMA	Unmodified	2247400	3109800	4474100	0	0	0	0	0	0
HGIVEDWDLMER	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3_HUMA	Oxidation (M)	1632900	1824000	1966500	22455	0	0	0	0	0
HGKNPVMELNEK	ILF3	Q12906	ILF3_HUMAN	Oxidation (M)	1843900	2046700	3215200	0	123950	92229	0	0	0
HGKYMACCLLYR	TUBA1A; TUBA4A;	Q71U36; P68366;	TBA1A_HUM	Oxidation (M)	844000	1164100	1160700	30648	0	30529	0	0	0
HGLEAISIMDSR	VARS1; VARS1	P26640; A0A140	SYVC_HUMA	Oxidation (M)	1036100	0	1712700	0	288560	330320	0	0	0
HGLEVSEMAVSELPGNPNAVWTVR	SF3B3; SF3B3	Q15393; J3QKV4	SF3B3_HUM	Oxidation (M)	1238300	792120	1060400	0	0	0	0	0	0
HGLIPLVNSMDVPGILTR	QRSL1; QRSL1	Q9H0R6; X6R772	GATA_HUMA	Oxidation (M);Deam	0	514200	895820	0	0	0	0	0	0
HGLQSLGK	PRRC2A; PRRC2B; I	P48634; Q5JSZ5;	PRC2A_HUM	Unmodified	0	0	1858600	50803	40707	31734	84737	40749	31666
HGLSEKGDSQPSAS	OCIAD2	Q56VL3	OCAD2_HUM	Unmodified	0	4739800	9151400	557020	0	0	0	0	0
HGLVPFAFVR	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9_HUM	Unmodified	2987500	3781900	2977900	0	46524	0	0	0	0
HGLYLPTR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	1007100	801820	1082300	40411	38364	48325	0	0	0
HGNRGETGPSGPVGPAGAVGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	17160000	19014000	5137300	6512000	6766900	7308300	2249900	2637000	2416400
HGNRGETGPSGPVGPAGAVGPR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Deamidation (N)	32727000	32335000	39835000	25747000	23844000	24233000	8071600	6408300	7230500
HGPAVADLLQAVQFHAASPLHYAK	BTBD17	A6NE02	BTBDH_HUM	Unmodified	15276000	13633000	12984000	0	0	0	0	0	0
HGQALGELAEQLEQAR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	4435900	1766400	2687000	0	0	0	0	0	0
HGQALGELAEQLEQARR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	0	0	1035800	0	0	0	0	0	0
HGSLGFLPR	RPL3; RPL3; RPL3; I	P39023; H7C3M2	RL3_HUMAN	Unmodified	2410300	2281800	0	41495	68006	32867	0	0	0
HGSVSADEAAR	CLN6; CLN6; CLN6;	Q9NWW5; H3BU	CLN6_HUMA	Unmodified	174190	215640	223900	22657	22159	24644	0	0	0
HGSYEDAVHSGALND	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA_HUMA	Unmodified	1144500	1259400	1328900	57482	59554	51432	8432.5	0	0
HGVSQTDCNIMQDPDFSFLAAR	CHD8; CHD8; CHD8	Q9HCK8; H0YJG	CHD8_HUMA	Oxidation (M)	288230	235960	468360	0	0	0	0	0	0
HGVVPLATYMR	RPL21; RPL21; RPL	P46778; G3V1B3;	RL21_HUMA	Oxidation (M)	578500	710110	636610	0	29342	30616	0	0	0
HGVYNPNK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	0	0	0	0	0	0	0	0	0
HGVYNPNKIFGVTTLDIVR	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	3455800	2739300	2604300	0	0	0	0	0	0
HGVYNPNKIFGVTTLDIVR	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Methyl (KR)	1332300	1110900	915890	0	0	0	0	0	0
HHGDVMDLQFFDQER	NUP43; NUP43; NUP	Q8NFH3; B4DVD	NUP43_HUM	Oxidation (M)	608950	451900	0	0	0	0	0	0	19695
HHGPQTLYLPVTLSSIPVFQR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	23534000	20173000	18138000	0	0	0	0	0	0
HHNQSTAINLNNPESQSMHLETR	EIF3A	Q14152	EIF3A_HUMA	Oxidation (M)	0	971050	669060	0	0	0	0	0	0
HHSDGSVSLSGHLQPPPVTTEQHGAR	TAPBP; TAPBP; TAI	O15533; A0A0G2	TPSN_HUMA	Unmodified	919810	1682200	1561700	0	0	0	0	0	0
HHSLGGQYGVQGFPTIK	PDIA6	Q15084	PDIA6_HUM	Unmodified	782410	949690	782230	0	0	0	0	0	0
HHYEQQQEDLAR	CHD4; CHD3; CHD5	Q14839; Q12873;	CHD4_HUMA	Unmodified	5869100	0	5750500	231790	0	0	0	0	0
HIADLAGNPDLILPVPAFNVINGGSHAGNK	ENO3; ENO3; ENO3;	P13929; K7EKN2	ENOB_HUM	Deamidation (N)	438320	382820	0	0	0	0	0	0	0
HIADLAGNSEVILPVPAFNVINGGSHAGNK	ENO1; ENO1; ENO1;	P06733; K7EM90	ENOA_HUM	Deamidation (N)	4604700	2645800	3703100	0	0	0	0	0	0
HIADLAGNSEVILPVPAFNVINGGSHAGNK	ENO1; ENO1; ENO1;	P06733; K7EM90	ENOA_HUM	2 Deamidation (N)	33013000	36395000	40580000	0	0	45990	0	0	0
HIADLAGNSEVILPVPAFNVINGGSHAGNK	ENO1; ENO1; ENO1;	P06733; K7EM90	ENOA_HUM	3 Deamidation (N)	1440200	4426300	5688800	0	0	0	0	0	0
HIAEDADRKYEEVAR	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1_HUMA	Unmodified	0	0	0	232170	217720	189760	275130	1194900	1239400
HIAEDADRKYEEVAR	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1_HUMA	Methyl (KR)	0	0	0	0	0	731680	0	0	158810
HIAEEADR	TPM4; TPM3; TPM3	P67936; P06753;	TPM4_HUMA	Unmodified	1036900	1258900	0	0	0	0	0	0	0
HIAEEADRKYEEVAR	TPM4; TPM3; TPM3	P67936; P06753;	TPM4_HUMA	Unmodified	18505000	15940000	14744000	1397300	1568300	679430	63124	259650	135120
HIAQLAGNSDLILPVPAFNVINGGSHAGNK	ENO2	P09104	ENOG_HUM	2 Deamidation (N)	1444200	1391900	1223800	0	0	0	0	0	0
HIDALEDKIDEEVRR	MRE11; MRE11	P49959; F8W7U8	MRE11_HUM	Unmodified	4118200	3313200	2519700	0	0	0	0	0	0
HIDFSLR	RPS9	P46781	RS9_HUMAN	Unmodified	1537900	1879000	1983000	82776	56594	0	0	0	0
HIDLVEGDEGR	HK1	P19367	HXK1_HUMA	Unmodified	1667300	1915500	2300400	0	22715	39557	0	0	0
HIEILDQALSNAQAR	AMOTL1	Q8IY63	AMOL1_HUM	Deamidation (N)	0	0	1385800	0	0	0	0	0	0
HIGKPLLGGPFSLTTHTGER	SCO1; SCO1	O75880; J3QL56	SCO1_HUMA	Unmodified	1541600	1446900	2045000	0	0	0	0	0	0
HIGLVYSGMGPDYR	PSMA2; N/A; PSMA2	P25787; A0A7I2V	PSA2_HUMA	Oxidation (M)	2168700	2557400	2033200	0	0	0	0	0	0
HIGVGMYQHDVSQTLLK	SRBD1	Q8N5C6	SRBD1_HUM	Oxidation (M)	0	455850	341830	0	0	0	0	0	0
HILLAVANDEELNQLLK	MACROH2A2; MAC	Q9P0M6; O75367	H2AW_HUM	Unmodified	1385700	0	729940	0	0	0	0	0	0
HIMGQNVADYMR	RPL5; RPL5	P46777; A0A2R8	RL5_HUMAN	2 Oxidation (M)	39699000	49623000	34245000	1642300	1602800	1249100	31121	42251	44115
HIMGQNVADYMR	RPL5; RPL5	P46777; A0A2R8	RL5_HUMAN	2 Oxidation (M);De	1974200	1422000	1465800	0	32028	54428	0	0	0
HIPLAPGSDWRDLPNIEVR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1_HUM	Unmodified	2286400	2129200	1403400	0	0	0	0	0	0
HITIFSPEGR	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6_HUMA	Unmodified	2127600	1558800	372530	0	0	0	0	0	0
HITTISDETSEQVTR	GABPA	Q06546	GABPA_HUM	Unmodified	1036200	1282300	872580	0	0	0	0	11679	0
HIVAVLPEIDPVLFQGK	NAGK; NAGK; NAG	Q9UJ70; C9JEV6;	NAGK_HUM	Unmodified	637030	659350	621460	0	0	0	0	0	0
HIVLSGGSTMYPGLPSR	ACTR2; ACTR2	P61160; F5H6T1	ARP2_HUMA	Oxidation (M)	1119100	899040	1626300	0	0	0	0	0	0
HIYYITGETK	HSP90AASP; HSP90	Q58FG0; P07900	HS905_HUM	Unmodified	5037500	4222600	4450500	0	0	0	0	0	0
HIYYITGETKDQVANSAFVER	HSP90AA1	P07900	HS90A_HUM	Deamidation (N)	3121600	2988000	2160400	0	0	0	0	0	0
HIYYITGETKDQVANSAFVER	HSP90AA1	P07900	HS90A_HUM	Unmodified	6276500	4665200	2701500	0	0	0	0	39505	0
HKDVAEEIANYRPTLDTLHEQASALPQEHAESPDVR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	1059200	0	0	0	0	0	0	0	0
HKELAPYDENWFYTR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19_HUMA	Unmodified	9817200	7539100	8141600	40016	52808	31339	0	0	0
HKELAPYDENWFYTR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19_HUMA	Deamidation (N)	1799300	0	1959400	0	0	0	0	0	0
HKMTIAALESK	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14_HUM	Oxidation (M)	2083000	1218800	1195400	0	0	0	0	0	0
HKPAFTEEDVLNIFPVVK	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU_HUMAN	Unmodified	1056500	837970	1378100	0	0	0	0	0	0
HKQSLEEAAK	DSP	P15924	DESP_HUMA	Unmodified	644630	719410	564870	22445	27101	32664	0	0	0
HKSDFGKFVLSSGK	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Unmodified	1309700	1212700	1058100	0	19535	0	0	0	0
HKVSEFKEGKAQEPSAAIPK	SF3A1	Q15459	SF3A1_HUM	Unmodified	0	635460	829110	0	0	0	0	0	0
HKVYACEVTHQGLSSPVTK	IGKC; IGKC	P01834; A0A5H1	IGKC_HUMA	Unmodified	0	2822200	2339900	0	190510	172350	0	59578	0
HKWNDFAEDSLR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Deamidation (N)	444590	390440	0	0	0	0	0	0	0
HLAGLGLTEAIDKNKADLSR	SERPINH1; SERPINH	P50454; E9PKH2;	SERPH_HUM	Unmodified	1862400	1232000	1056200	0	0	0	0	0	0
HLALNLQEK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	1128700	744690	1062700	0	0	40586	0	0	0
HLAPPPLLSPLPSIKPTVR	MDC1; MDC1	Q14676; H0Y6Z8	MDC1_HUM	Unmodified	1208500	595900	1008200	0	0	0	0	0	0
HLDGEEDGSSDQSQASGTTGGRR	MAGED2; MAGED2;	Q9UNF1; Q5H907	MAGD2_HUM	Unmodified	273020	0	360410	0	0	0	0	0	0
HLDHVAALFPGDVDRLR	PYGB	P11216	PYGB_HUMA	Unmodified	1228200	1253000	951820	0	0	0	0	0	0
HLDIEDK	CHCHD3	Q9JRZ6	CHCH3_HUM	Unmodified	715470	0	0	0	0	0	0	0	0
HLEFSHDQYR	NANS	Q9NR45	SIAS_HUMAN	Unmodified	1223700	1445100	1737400	0	96120	306410	0	0	0
HLEFSHDQYRELQR	NANS	Q9NR45	SIAS_HUMAN	Unmodified	11770000	11917000	13343000	337710	260540	290480	0	0	14376
HLEHSTIIYEDPQHHPLLR	DCAF7; DCAF7	P61962; A0A087	DCAF7_HUM	Unmodified	2220500	2914100	1885600	0	0	0	0	0	0
HLEIIYAINQR	PYGB	P11216	PYGB_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
HLEINPDHPIVETLR	HSP90AB1	P08238	HS90B_HUM	Unmodified	28177000	30058000	29780000	68378	72745	44035	29986	0	0
HLEINPDHSIIETLR	HSP90AA1	P07900	HS90A_HUM	Unmodified	50327000	50179000	44270000	40643	0	91860	41612	40583	50018
HLIEMGYLQGGK	CMAS; CMAS	Q8NFW8; F5GYN	NEUA_HUM	Oxidation (M)	2557800	2992000	1915900	139050	100110	121090	0	0	0
HLLIGLPSGAILSLPK	EMC1; EMC1	Q8N766; H7C4E3	EMC1_HUM	Unmodified	1275700	657380	870250	0	0	0	0	0	0
HLLQAPLDDAQEILQAR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	Unmodified	1282800	947440	1348900	0	0	0	0	0	0
HLLQEAR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Unmodified	1284700	723780	1277600	497670	399070	399350	62284	58802	52131
HLLSQPLFTESQK	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Unmodified	1621300	1068000	1072600	0	0	0	6172.8	0	0
HLLVSNVGGDGEEIER	NUP155; NUP155	O75694; E9PF10	NU155_HUM	Unmodified	669580	746540	1333900	0	0	0	0	0	0

HLMLPDFDLLEDIESK	XRCC5; XRCC5	P13010; C9JZ81	XRCC5	HUM	Oxidation (M)	5057300	280490	1884600	0	0	0	0	0	0
HLMTLVMDPLQTASVQWFER	ADSL; ADSL; ADSL;	P30566; A0A7P0Z	PUR8	HUM	2 Oxidation (M)	0	586630	724300	0	0	0	0	0	0
HLNDETTSK	CYRIB	Q9NUQ9	CYRIB	HUM	Deamidation (N)	606050	897090	982370	0	0	0	0	0	0
HLPGAFFLGAER	ZCCHC3	Q9NUD5	ZCHC3	HUM	Unmodified	234180	536170	310750	0	0	0	0	0	0
HLPGPGQQPGPWGPEQASSPAR	TNS2; TNS2	Q63HR2; F8VV64	TNS2	HUM	A Unmodified	0	273240	376550	174050	189400	150720	0	0	0
HLPSTEPDPHVVR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	7171600	7618200	5935600	908540	0	748140	0	0	0
HLPVEPEELQR	METTL17; METTL1	Q9H7H0; G3V353	MET17	HUM	Unmodified	628930	0	0	0	0	0	0	0	0
HLQDLMEGLTAK	TOP1; TOP1	P11387; A0A7P01	TOP1	HUM	A Oxidation (M)	878110	371650	691160	0	0	0	0	0	0
HLQELVGQETLPR	NELFB; NELFB	Q8WX92; A0A5H	NELFB	HUM	Unmodified	444280	668670	1181700	0	0	0	0	0	0
HLQLAIR	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	A Unmodified	13132000	13691000	11997000	582580	590600	728070	0	0	0
HLQLAIRNDEELNK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	A Unmodified	3848800	2864600	2887800	0	0	0	0	0	0
HLQLAIRNDEELNK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	A Deamidation (N)	52871000	13256000	50740000	0	0	0	0	0	0
HLQLAIRNDEELNK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	A 2 Deamidation (N)	282520	0	726560	0	0	0	0	0	0
HLQLAIRNDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	2 Deamidation (N)	5580000	3684000	4545000	0	0	0	0	0	0
HLQLAIRNDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Unmodified	32748000	19044000	28031000	0	0	0	0	0	0
HLQLAIRNDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Deamidation (N)	64639000	18379000	46751000	17262	0	17622	0	0	0
HLQLAIRNDEELNKLLGKVTIAQGGVLPNIQAVLLPK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Unmodified	483650	0	0	0	0	0	0	0	0
HLQLAIRNDEELNKLLGR	H2AC6; H2AW; H2A	Q93077; Q7L7L0;	H2A1C	HUM	Unmodified	13996000	4737600	10967000	26927	0	0	0	0	0
HLQLAIRNDEELNKLLGR	H2AC6; H2AW; H2A	Q93077; Q7L7L0;	H2A1C	HUM	Deamidation (N)	18314000	5277700	12095000	0	0	0	0	0	0
HLQLAVR	H2AC21	Q8IUE6	H2A2B	HUM	Unmodified	2638300	1836000	1986000	0	0	0	0	0	0
HLQLAVRNDEELNK	H2AC21	Q8IUE6	H2A2B	HUM	Deamidation (N)	7932900	8603400	4539700	29682	126070	63867	0	0	0
HLQLAVRNDEELNK	H2AC21	Q8IUE6	H2A2B	HUM	Methyl (KR);Deam	0	13256000	41183000	123250	202910	180190	0	0	0
HLQLAVRNDEELNK	H2AC21	Q8IUE6	H2A2B	HUM	Methyl (KR);2 Dea	0	964380	0	0	0	0	0	0	0
HLREYQDLLNVK	INA; NEFM; VIM; DI	Q16352; P07197;	AINX	HUM	A Unmodified	3329600	0	0	303190	257060	218560	0	0	0
HLSPYATLTVGDSSHK	ESYT1	Q9BSJ8	ESYT1	HUM	Unmodified	0	1414400	0	0	0	0	0	0	0
HLSSGDLLR	AK3	Q9UIJ7	KAD3	HUM	A Unmodified	146380	393220	301500	0	0	0	0	16285	0
HLSVNDLPVGR	PRDX3	P30048	PRDX3	HUM	Unmodified	5964700	4988600	5064000	122480	141610	46513	0	0	0
HLSVNDLPVGR	PRDX3	P30048	PRDX3	HUM	Deamidation (N)	7041300	6450300	6585000	88635	103590	98624	0	0	0
HLTASEAK	FEN1	P39748	FEN1	HUM	A Unmodified	1189800	0	0	0	0	0	0	0	0
HLTDAYFK	RPL6	Q02878	RL6	HUM	AN Unmodified	639960	699830	673880	0	0	0	0	0	0
HLTGEFEK	RAN; RAN; RAN; R	P62826; H0YFC6;	RAN	HUM	A Unmodified	7248900	76531	8202100	95813	0	108700	0	0	0
HLTPVTLELGGK	ALDH3A1; ALDH3B	P30838; P43353;	AL3A1	HUM	Unmodified	1550100	2478900	1981000	0	0	0	0	0	0
HLVLLDTAQAAAAGHR	MAN2B1; N/A	O00754; M0QZ24	MA2B1	HUM	Unmodified	2716300	2158700	2525300	40284	52661	47091	0	0	14311
HLVMGDIPAAVNAFQEAASLLGK	NASP; NASP; NASP	P49321; E9PIB6;	NASP	HUM	A Oxidation (M)	427870	126020	298410	0	0	0	0	0	0
HLVMGDIPAAVNAFQEAASLLGK	NASP; NASP; NASP	P49321; E9PIB6;	NASP	HUM	A Oxidation (M);Deai	1389200	986540	1197800	0	0	0	0	0	0
HLVMGDIPAAVNAFQEAASLLGKK	NASP; NASP; NASP	P49321; E9PIB6;	NASP	HUM	A Oxidation (M);Deai	1381900	979410	1428100	0	0	0	0	0	0
HLVMGDIPAAVNAFQEAASLLGKK	NASP; NASP; NASP	P49321; E9PIB6;	NASP	HUM	A Oxidation (M)	682920	674240	921750	0	0	0	0	0	0
HLVPGAPFLLQALVR	C4A; C4B; C4B_2; C	P0C0L4; P0C0L5;	CO4A	HUM	A Unmodified	983440	647700	826170	0	0	0	0	0	0
HLYDPKLGTDQPLDQATISLQMGTNK	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1	HUM	A Oxidation (M)	0	0	0	0	0	0	160640	29261	82558
HLYPNTPYAYTFWTYMMNAR	APEX1	P27695	APEX1	HUM	2 Oxidation (M)	3081600	2067500	3339300	0	0	0	0	0	0
HLYPNTPYAYTFWTYMMNAR	APEX1	P27695	APEX1	HUM	2 Oxidation (M);De	3765400	2298400	2951200	0	0	0	0	0	0
HLYTKDIDIHEVR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	5236200	4410600	4508300	178410	238370	223060	0	0	0
HMDGGQIDGQEITATAVLAPWPRPPPPR	RNPS1; RNPS1; RNP	Q15287; H3BPG5	RNPS1	HUM	Oxidation (M)	4477700	2658300	2248200	0	0	0	0	0	0
HMDPPPAPVQDR	MAP1B	P46821	MAP1B	HUM	Oxidation (M)	593610	603650	562380	0	0	0	0	0	0
HMEASLQELK	IGFBP5	P24593	IBP5	HUMA	Oxidation (M)	820630	1444200	951530	0	0	0	0	0	0
HMIMANPQMQQLMER	UBQLN4	Q9NRR5	UBQL4	HUM	4 Oxidation (M)	857770	0	982020	0	19957	25286	0	0	0
HMIPRQTDFNLMR	SPEF2; SPEF2; SPEF	Q9C093; A0A1B0	SPEF2	HUM	2 Oxidation (M);M	0	0	724880	202640	364180	302180	72988	0	44018
HMLGLPSTLFTPR	MAP2K7	O14733	MP2K7	HUM	Oxidation (M)	1125000	941490	791400	0	0	0	0	0	0
HMQEWLETR	ACYP1; ACYP1	P07311; G3V2U7	ACYP1	HUM	Oxidation (M)	1885500	2552400	4501200	0	0	0	0	0	0
HMSEFMECNLNELVK	PSMA1; PSMA1	P25786; F5GX11	PSA1	HUM	A 2 Oxidation (M)	1827500	1414100	0	0	0	0	0	0	0
HMYVFGDFKDVLIPGKLK	ERP44	Q9BS26	ERP44	HUM	Oxidation (M)	259970	303330	316020	0	0	0	0	0	0
HNDDEQYAWESSAGGSFTVR	HSP90AA2P; HSP90	Q14568; P08238;	HS902	HUM	Unmodified	2058400	0	1740500	0	0	0	0	0	0
HNEETGDNVGPLIIK	CISD1	Q9NZ45	CISD1	HUM	Unmodified	815000	857360	0	0	0	0	0	0	0
HNIAYFPQIVSVAAR	ISOC2; ISOC2; ISOC	Q96AB3; K7EKW	ISOC2	HUM	Unmodified	0	1331400	1165200	0	0	0	0	0	0
HNIMDFAMPYFIQVMK	CLTC; CLTC; CLTC;	Q00610; J3KRF5;	CLH1	HUM	A 3 Oxidation (M)	796060	1292900	1522300	0	0	0	0	0	0
HNIMDFAMPYFIQVMKEYLTK	CLTC; CLTC; CLTC;	Q00610; J3KRF5;	CLH1	HUM	A 3 Oxidation (M)	1282800	791070	998430	0	0	0	0	0	0
HNLITEMVALNPDFKPPADYKPPPATR	SF1; SF1	Q15637; A0A7P0	SF01	HUMA	Oxidation (M)	1704100	1471400	1026800	0	0	0	0	0	0
HNPVFGVMS	ACTR3B; ACTR3;	Q9P1U1; P61158;	ARP3B	HUM	Oxidation (M)	4926000	4995400	4944300	717430	793470	783470	123110	120520	0
HNQLPLVIEFTEQTAPK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM	Unmodified	9747300	5910800	9042700	0	13947	0	0	29657	0
HNQLPLVIEFTEQTAPK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM	Deamidation (N)	3010100	1851300	2002100	0	0	0	0	0	0
HNSEKPPEPVKPEVK	CHORDC1; CHORDC	Q9UHD1; E9PPQ2	CHRD1	HUM	Deamidation (N)	1020700	1232000	1116300	0	0	0	0	0	0
HPAKPDPSGECNPDLR	RBBP7; RBBP7; RBI	Q16576; E9PC52;	RBBP7	HUM	Unmodified	448910	596490	599280	0	0	0	0	0	0
HPAPEDPDWIKR	GTF3C4	Q9UKN8	TF3C4	HUM	Unmodified	0	0	894850	0	0	0	0	0	0
HPASEAEIQPQTQVTLR	PTK7; PTK7; PTK7	Q13308; Q86X91;	PTK7	HUM	A Unmodified	824270	797990	1222200	39776	0	38292	0	0	0
HPDVEVDGFSELR	PARP1; PARP1; PAR	P09874; A0A7Z	PARP1	HUM	Unmodified	8874500	7958200	9408900	111970	16164	50792	0	0	0
HPELADKNVPNLHVMK	RPS10; RPS10P5; RP	P46783; Q9NQ39;	RS10	HUM	A Oxidation (M)	783160	982640	3230600	0	0	0	0	0	0
HPESNTAGMDIFAK	CLIC4	O95698	CLIC4	HUM	Oxidation (M)	336780	539020	1139900	0	0	0	0	0	0
HPFAQAVGR	IDH3B; IDH3B; IDH3	O43837; A0A0D9	IDH3B	HUM	Unmodified	2994000	1623200	1901400	87246	69109	99113	0	0	0
HPFPLPLMAYPFQSPLGAPSGSFSGK	PROX1	Q92786	PROX1	HUM	Oxidation (M)	858570	730580	827450	0	0	0	0	0	0
HPGSFDVVHVK	RPS4X; RPS4Y1; RP	P62701; P22090;	RS4X	HUM	A Unmodified	0	2645800	3238100	0	195160	0	0	0	0
HPGSFDVVHVKDANGNSFATR	RPS4X; RPS4Y1; RP	P62701; P22090;	RS4X	HUM	A 2 Deamidation (N)	5707000	3489000	4842500	0	0	105510	0	0	0
HPGSFDVVHVKDANGNSFATR	RPS4X; RPS4Y1; RP	P62701; P22090;	RS4X	HUM	A Deamidation (N)	0	0	642170	0	0	0	0	0	0
HPGSSYVAGPLEYPSASLILK	EP400	Q96L91	EP400	HUM	Unmodified	175860	0	236410	0	0	0	0	0	0
HPHDIIDDINSGAVECPAS	RPL12	P30050	RL12	HUM	A Deamidation (N)	967070	678710	2145700	0	0	0	0	0	0
HPPAPAEPSSDLASK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	1623300	1858300	1594300	0	0	114730	0	0	0
HPQAHVDIYEK	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	803360	589900	0	0	0	0	0	0	0
HPQAHVDIYEKQPVPFGLVR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	1266500	1637200	0	0	0	0	0	0	0
HPQLEAVLMGTR	FLAD1; FLAD1	Q8NFF5; Q5T190	FAD1	HUM	A Oxidation (M)	697710	481670	937950	0	0	0	0	0	0
HPQPGAVELAAK	CAD; CAD; CAD	P27708; F8VPD4;	PYR1	HUM	Unmodified	972020	826230	732610	0	0	0	0	0	0
HPWDDISYVLPEHMSM	ACLY	P53396	ACLY	HUM	2 Oxidation (M)	4494000	4056100	7507600	0	0	0	0	0	0
HQAFEAELHANADR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	387120	0	1716900	0	66732	0	0	0	0
HQAFEAELHANADRIR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	1309100	1214400	1471000	57224	51018	63836	0	0	0
HQAFEAELSANQSR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	3188000	1155900	1916000	0	0	0	0	0	0
HQAFEAEVQANSGAIVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Deamidation (N)	874780	1076100	884270	0	44481	0	0	0	0
HQALQAEIAGHEPR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	1348700	1289400	1596200	0	0	0	0	0	0
HQAQIDHYLGLANK	RTN4; RTN4; RTN4	Q9NQC3; F8W91	RTN4	HUM	Unmodified	607690	602390	813210	0	0	0	15257	0	0
HQDVPSQDDSKPTQR	AASDHPPT	Q9NRN7	ADPPT	HUM	Unmodified	418740	420040	473930	0	0	0	0	0	0
HQEGEIFDTEK	RPL6	Q02878	RL6	HUM	AN Unmodified	3119600	2272000	2401500	0	0	0	0	0	0
HQEGEIFDTEKEK	RPL6	Q02878	RL6	HUM	AN Unmodified	833890	1237400	1513400	0	54423	89869	0	0	0
HQEGEIFDTEKEKYEITEQR	RPL6	Q02878	RL6	HUM	AN Unmodified	33751000	38012000	31853000	2246500	1671800	1393700	44458	50898	40445
HQEGEIFDTEKEKYEITEQR	RPL6	Q02878	RL6	HUM	AN Methyl (KR)	786760	835220	871190	0	0	0	0	0	0
HQEGEIFDTEKEKYEITEQRK	RPL6	Q02878	RL6	HUM	AN Unmodified	3300600	1627500	916220	68701	58372	63190	0	0	0
HQEPVYSVAFSPDGR	TBL1XR1; TBL1XR1	Q9BZK7; A0A0D	TBL1R	HUM	Unmodified	0	1944600	1657900	43057	0	0	0	0	0
HQFGTDKDVFGPR	SCAF4	O95104	SCAF4	HUM	Unmodified	1302200	2115000	2152300	0	0	0	0	0	0
HQGVMVGMGQK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M)	346260000	162360000	159160000	32433000	22980000	25784000	20019000	15216000	21166000
HQGVMVGMGQK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M)	366860	420700	276610	0	42797	47393	0	0	27847
HQGVMVGMGQKDSYVGDEAQSK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M)	280980000	286710000	344780000	12845000	15418000	15154000	15938000	14412000	13586000
HQGVMVGMGQKDSYVGDEAQSK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M);M	72580000	67914000	70009000	3971800	3950900	4735500	39977	67852	943160
HQGVMVGMGQKDSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M)	149980000	187280000	186280000	9067700	9282300	8855500	9144000	11981000	3299000
HQGVMVGMGQKDSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M);M	61304000	46169000	53055000	2247900	2812700	3492900	3199000	895710	3092600
HQGVMVGMGQKDSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M);2 1	2930100	2799600	3338500	147980	0	0	0	0	0
HQILEQAVEDYAETVHQLSK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	6567600	4228300	6791600	0	0	0	0	0	0
HQIVEVAGDDKYGRK	ARHGAP1; ARHGAI	Q07960; E9PNR6;	RHG01	HUM	Unmodified	526720	813380	782430	0	0	0	0	0	0
HQLILPAFEHEYR	PCIF1; PCIF1	Q9H4Z3; A0A087	CAPAM	HUM	Unmodified	731810	495950	0	0	0	0	0	0	0
HQNLLKELQDLALQGAK	CHGA; CHGA	P10645; G5E968	CMGA	HUM	Unmodified	745860	898340	686510	0	0	0	0	0	0
HQNLLKELQDLALQGAKER	CHGA; CHGA	P10645; G5E968	CMGA	HUM	Unmodified	0	0	1799800	0	0	0	0	0	0
HQNVQLPR	PTBP1; PTBP1; PTB	P26599; A0A087	PTBP1	HUM	Unmodified	6208400	9379500	8199900	340440	360370	388630	0	0	0
HQSFVLVGETGSGK	DHX15	O43143	DHX15	HUM	Unmodified	4324100	3731600	4154100	0	33395	50422	0	0	0
HQVEQLSSSLK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Unmodified	2366200	3043300	2118000	0	0	0	0	0	0
HQVEYLGLLENVR	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D	HUM	Unmodified	1518600	1273500	1172600	0	0	0	0	0	0
HQVLFIADEIQTGLAR	OAT	P04181	OAT	HUM	AN Unmodified	3018500	0	583180	0	0	0	0	0	0
HQVQLLGR	DDX23	Q9BUQ8	DDX23	HUM	Unmodified	686810	787550	749620	53493	99144	0	0	0	0
HRAEAPPLEREDSGTFSLGK	PRKRA; PRKRA; PR	O75569; A0A7Z	PRKRA	HUM	Unmodified	3971000	2899400	5170900	134090	211680	130070	0	27516	18738
HRAFEDEMSGR	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Oxidation (M)	1152800	528220	858810	265630	0	183910	0	0	0
HRDFVAEPMGEKPVGSLAGIGEVLGK	BANF1	O75531	BAF	HUMAN	Oxidation (M)	16069000	14698000	13889000	0	0	0	0	0	0
HRDFVAEPMGEKPVGSLAGIGEVLGK	BANF1	O75531	BAF	HUMAN	Oxidation (M);Met	421590	309390	0	0	0	0	0	0	0
HRDYETATLSDIK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	1078800	0	2689400	0	0	0	0	0	0
HRDYETATLSDIKALIR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	930680	837620	996240	0	0	0	0	0	0
HREELEQSKQAAGGLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	0	4826500	5235000	0	0	0	0	0	0
HREELEQSKQAAGGLRAELLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	2400900	1674400	1298300	0	0	0	0	0	0
HREKEEYISR	GOLGA2; GOLGA2;	Q08379; A0A087	GOGA2	HUM	Unmodified	262100	248390	291340	0	0	0	0	0	0
HRLDLGEDYPSGK	DHX15	O43143	DHX15	HUM	Unmodified	3832800	2721800	3652800	440750	342260	485190	0	0	0
HRNEVTVELR	KPNA3	O00505	IMA4	HUM	Deamidation (N)	575710	0	0	0	0	0	0	0	0
HRPELIDYGK	ACTN1; ACTN1; AC	P12814; G3V2W4	ACTN1	HUM	Unmodified	3628300	3836200	2941000	116430	136090	108460	0	0	28278
HRPELIEYDK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	2404900	2257400	2186700	87748	0	0	0	0	0
HRPELIEYDKLR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	1599800	1438000	830150	66451	59040	54510	0	0	0
HRPSEADEEELAR	AP3D1; AP3D1	O14617; A0A2R8	AP3D1	HUM	Unmodified	2233800	2604200	3810400	183180	293190	221520	17558	0	32617
HRTLTAEEAEEEWERR	GTF2F1; GTF2F1	P35269; M0R0R9	T2FA	HUM	Unmodified	878620	751060	762020	0	0	0	0	0	0
HSDYPLSLQWLPGTAYLR	FUT11	Q495W5	FUT11	HUM	Unmodified	281700	344170	0	0	0	0	0	0	0
HSEAATAQR	HNRNPD; HNRNPD;	Q14103; D6RD83	HNRPD	HUM	Unmodified	1106000	496560	3271500	0	0	0	0	0	0
HSEAATAQREEWK	HNRNPD; HNRNPD;	Q14103; D6RD83	HNRPD	HUM	Unmodified	3648100	6744700	7673800	103570	0	126370	0	0	0
HSEAFEALQQK	CKAP4	Q07065	CKAP4	HUM	Unmodified	1567900	1500900	2218800	177850	174740	216930	0	0	0

HSELLQK	MRPS28; MRPS28; M	Q9Y2Q9; H7C5V7	RT28_HUMA	Unmodified	971670	1004200	937240	42578	42423	0	12987	0	16904
HSELLQKVEPLQK	MRPS28; MRPS28	Q9Y2Q9; E5RFT8	RT28_HUMA	Unmodified	813310	842580	607220	0	0	0	0	0	0
HSFGPLDYESLQQELALK	GLS; GLS	B8ZZA8; B8ZZC9	B8ZZA8_HUM	Unmodified	1424300	1643200	1625000	0	0	0	0	0	0
HSGNITFDEIVNIAR	RPL12	P30050	RL12_HUMA	Unmodified	5498000	3493500	4285000	0	0	0	12954	0	0
HSGPNSADSANDGFVR	HNRNPF	P52597	HNRPF_HUM	Unmodified	1654300	2253300	1422800	17603	0	0	0	0	0
HSGPNSADSANDGFVR	HNRNPF	P52597	HNRPF_HUM	Deamidation (N)	3859700	2420100	3307900	0	43595	70274	0	0	0
HSGPNSADSANDGFVR	HNRNPF	P52597	HNRPF_HUM	2 Deamidation (N)	2489000	3041800	2538600	0	59648	31490	0	0	0
HSGQFTDEYLPEQR	NID2; NID2; NID2	Q14112; H0YJV3;	NID2_HUMA	Unmodified	506540	750240	363190	195000	130670	142160	0	0	0
HSHAGELEALGGVKPAVLTR	SLC4A1; SLC4A1	P02730; A0A0A0	B3AT_HUMA	Unmodified	639600	0	541910	0	0	0	0	0	0
HSLVSFVVR	SPON2	Q9BUD6	SPON2_HUM	Unmodified	0	0	0	5939600	6367700	7112100	0	24066	0
HSPAGSQALQTTAASELMSQK	NFXL1	Q6ZNB6	NFXL1_HUM	Oxidation (M)	1180000	642470	1168400	0	0	0	0	0	0
HSQAVEELAEQLEQTK	MYH9	P35579	MYH9_HUM	Unmodified	2851000	1725500	1618700	0	0	0	0	0	0
HSQAVEELAEQLEQTKR	MYH9	P35579	MYH9_HUM	Unmodified	4023100	7650400	7747800	0	0	0	0	0	0
HSQAVEELAEQLEQTKR	MYH9	P35579	MYH9_HUM	Methyl (KR)	1057400	2129000	804740	0	0	0	0	0	0
HSQDLAFLSMLNDIAAVPATAMPFR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	2 Oxidation (M);De	1076700	1187600	1315000	0	0	0	0	0	0
HSQFIGYPITLFVEK	HSP90AA5P; HSP90	Q58FG0; P07900;	HS905_HUM	Unmodified	16650000	11442000	11202000	0	11941	0	15253	0	15300
HSQFIGYPITLFVEKER	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A_HUM	Unmodified	14632000	9201100	9982800	0	0	0	0	0	0
HSQFIGYPITLFVEKER	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A_HUM	Methyl (KR)	2535500	2467500	2216400	0	0	0	0	0	0
HSQFLGYPITLYLEK	HSP90AB2P	Q58FF8	H90B2_HUM	Unmodified	14078000	15852000	12548000	17249	0	0	0	0	14286
HSQFLGYPITLYLEKER	HSP90AB2P	Q58FF8	H90B2_HUM	Unmodified	9306300	10676000	12307000	0	0	0	0	0	0
HSQPATPTPLQSR	PDLIM7	Q9NR12	PDLI7_HUM	Unmodified	568200	557810	334140	236980	242440	273470	0	255790	147190
HSQTDLVSR	TP53I11; TP53I11; TI	O14683; E9PMY0	P5I11_HUM	Unmodified	1190500	1371300	1660100	137140	96571	0	0	0	0
HSQTIDDPQCPSGTK	COL4A1; COL4A1	P02462; A0A3B3I	CO4A1_HUM	Unmodified	2204200	2168600	3265100	442360	464830	650840	27026	0	20034
HSSLITPLQAVAQR	PRKDC	P78527	PRKDC_HUM	Unmodified	1510000	475270	1244700	0	0	0	0	0	0
HSSLITPLQAVAQRDPIIAK	PRKDC	P78527	PRKDC_HUM	Unmodified	858610	803970	912460	0	0	0	0	0	0
HSSVYPTQEELEAVQNMVSHTER	ILF3; ILF3; ILF3; ILF	Q12906; K7ENK6	ILF3_HUMAN	Oxidation (M);Deai	10835000	9194400	7859300	367530	358880	511580	0	0	33170
HSSVYPTQEELEAVQNMVSHTER	ILF3; ILF3; ILF3; ILF	Q12906; K7ENK6	ILF3_HUMAN	Oxidation (M)	24098000	24137000	24671000	152050	74903	0	0	0	0
HSSYPAGTEDDEGMGEEPSPFR	BAD	Q92934	BAD_HUMAN	Oxidation (M)	727670	1759000	1457100	29345	52758	59530	0	0	0
HSTLDFMLGAK	SMS	P52788	SPSY_HUMA	Oxidation (M)	4355500	5787600	5506000	292300	209260	230670	218950	215210	228960
HSVESMITTLDPGMAPYIK	PRRC1	Q96M27	PRRC1_HUM	2 Oxidation (M)	1266500	1281200	1473800	27192	0	0	0	0	0
HSVGVVIGR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	1958700	1374300	1457600	365970	298640	334550	32449	0	0
HSVPLPTELSSEAK	APOOL; APOOL	Q6UXV4; A0A087	MIC27_HUM	Unmodified	0	717130	931260	0	141940	0	0	0	0
HSVSIVETNLGMGR	RAPGEF2; RAPGEF	Q9Y4G8; H0YAJ8	RPGF2_HUM	Oxidation (M);Deai	441220	1013800	0	0	0	0	0	0	0
HSVVAGGGGGEGR	LARP1	Q6PKG0	LARP1_HUM	Unmodified	275590	276510	227830	0	0	0	0	0	0
HTAAPTDPADGPV	PLP2	Q04941	PLP2_HUMA	Unmodified	40145000	32702000	29763000	2510300	2537300	2713200	124000	0	48328
HTADRWR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	1222800	841890	1190600	71056	51820	49408	0	0	0
HTDNVIQWLNAMDEIGLPK	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1_HUM	Oxidation (M)	1174600	767700	0	0	0	0	0	0	0
HTDPVPDPR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	2222000	2490900	1922300	174110	143760	134390	0	0	0
HTEMITTLKK	PSIP1	O75475	PSIP1_HUMA	Oxidation (M)	1656000	0	4520700	0	0	0	0	0	0
HTFMGVVSLGSPSGEVSHPR	AHSG; AHSG	P02765; C9JV77	FETUA_HUM	Oxidation (M)	2192400	2297800	1453900	0	0	32773	0	0	0
HTGFLEISQHSQEFINR	TRMT10C	Q7L0Y3	TM10C_HUM	Unmodified	4082300	908980	1176700	0	0	0	0	0	0
HTGPNSPDTANDGFVR	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1_HUM	Unmodified	18821000	23175000	18507000	228740	304240	1265900	0	0	0
HTGPNSPDTANDGFVR	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1_HUM	Deamidation (N)	14212000	14884000	14694000	394550	424500	418920	0	0	0
HTGPNSPDTANDGFVR	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1_HUM	2 Deamidation (N)	12063000	9757500	11270000	134060	0	149710	0	0	0
HTGQIGGLK	TARS2; TARS2; TAR	Q9BW92; F6S7Q7	SYTM_HUM	Unmodified	0	0	357720	0	0	0	0	0	0
HTGYVIELQHVVK	QARS1; QARS1; QA	P47897; H7C0R3	SYQ_HUMAN	Unmodified	550960	802280	479260	0	0	0	0	0	0
HTLADNFNPVSEER	M6PR; M6PR	P20645; H0YGT2	MPRD_HUM	Unmodified	1814600	1360300	1930300	58786	55725	49963	0	0	0
HTLGHLLSLDSYR	PLOD1	Q02809	PLOD1_HUM	Unmodified	724240	582510	1022100	0	0	0	0	0	0
HTSVQTTSSGSGPFTDVR	FN1	P02751	FINC_HUMA	Unmodified	3407700	2845200	3247100	396460	396140	364090	93987	105070	83482
HTTPFSVSDILSPLEESYK	NKX2-1; SFTA3	P43699; F8VVG2	NKX21_HUM	Unmodified	753910	477320	735510	0	0	0	0	0	0
HTTPFSVSDILSPLEESYKK	NKX2-1; SFTA3	P43699; F8VVG2	NKX21_HUM	Unmodified	12606000	10118000	15849000	0	0	0	0	0	0
HVAAGTQQPYTDGVR	JUP	P14923	PLAK_HUMA	Unmodified	748960	641370	763890	0	0	60327	0	0	0
HVAEDLGKVFGER	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	Unmodified	4432800	4523800	3013600	17632	0	0	0	0	0
HVAEDLGKVFGER	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	Methyl (KR)	512390	0	508940	14038	0	0	0	0	0
HVAEVLEYTKDEQLESLFQR	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A_HUMAN	Unmodified	2324500	2857300	2554700	0	0	0	0	0	0
HVAVTNMNEHSSR	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN1_HUMA	Oxidation (M);2 De	354550	233940	271690	0	0	0	0	0	0
HVDSLSQR	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_HUM	Unmodified	2136500	1297500	2085500	0	0	0	0	0	0
HVEAVAYYKK	SGTA; SGTA; SGTA;	O43765; A0A7Z	SGTA_HUMA	Unmodified	0	0	784130	0	0	0	0	0	0
HVEEFSPR	MCM6	Q14566	MCM6_HUM	Unmodified	2368000	2449600	2826000	0	0	0	0	0	0
HVEPGNAAIR	HAGH; HAGH; HAG	Q16775; H3BPK3	GLO2_HUMA	Unmodified	524070	470760	700090	0	0	0	0	0	0
HVFGESDELIGQK	TPI1; TPI1; TPI1; TPI	P60174; U3KPS5;	TPIS_HUMAN	Unmodified	37728000	25001000	24613000	228900	296550	0	0	0	0
HVFGQAVK	COR1C; COR01C;	Q9ULV4; F8VTT6	COR1C_HUM	Unmodified	718920	666270	822080	0	0	0	0	0	0
HVFLTGPPGVGK	NTPCR; NTPCR	Q9BSD7; Q5TDF0	NTPCR_HUM	Unmodified	3441400	3415800	3597300	0	0	0	0	0	0
HVGMAVAGLLADAR	PSMA3	P25788	PSA3_HUMA	Oxidation (M)	1413300	1249700	982130	0	0	0	0	0	0
HVIADQEVMETNR	PNN	Q9H307	PININ_HUMA	Oxidation (M)	478450	723200	512030	0	0	0	0	0	0
HVIECAK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	508500	0	316020	0	0	0	0	0	0
HVIGLQMGSNR	TAGLN; TAGLN	Q01995; H0YCU9	TAGL_HUMA	Oxidation (M)	261490	0	0	177780	175440	144140	231430	236720	244030
HVINFDLPSDIEEYVHR	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X_HUM	Deamidation (N)	395570	0	1726000	0	0	0	0	0	0
HVISYSLSPFEQR	UQCRQ	O14949	QCR8_HUMA	Unmodified	8308600	9180500	6964300	220960	211750	222220	37880	21226	0
HVLEISR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	1831400	1289700	1205500	114930	138840	135260	0	0	0
HVLSVLSK	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Unmodified	443370	399710	415300	0	0	0	0	29787	0
HVLVTLGEK	MYL6; MYL6; MYL6	P60660; G3V1Y7	MYL6_HUM	Unmodified	5401600	5985400	4326600	157100	190570	165450	16805	15201	14274
HVMDVVDEELSK	LONP1; LONP1; LO	P36776; K7ER27	LONM_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
HVMQPYYK	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	707420	814740	711990	0	0	0	0	0	0
HVNPVQALSEFKAMDSI	CTNNA1; CTNNA1	P35221; E5RGY7	CTNA1_HUM	Oxidation (M)	0	1699300	0	0	0	0	18208	0	0
HVQGILR	SNRPG; SNRPGP15;	P62308; A8MWD	RUXG_HUM	Unmodified	13201000	11938000	10460000	555590	496250	542240	0	11040	18734
HVQLLGR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1_HUM	Unmodified	606210	588710	566710	58097	53327	49800	0	0	0
HVQLSHEFESLVR	DDC; DDC; DDC; DI	P20711; A0A087	DDC_HUMAN	Unmodified	0	870720	433820	0	0	0	0	0	0
HVQSLEPDPGTPGSER	ADPRS	Q9NX46	ADPRS_HUM	Unmodified	2482000	2719000	3058600	182440	197530	0	0	0	0
HVQSLEPDPGTPGSERTEALYYTDDTAMAR	ADPRS	Q9NX46	ADPRS_HUM	Oxidation (M)	3738100	3968700	5908700	0	0	0	0	0	0
HVSPAGAAVGIPLSEDEAK	ATIC	P31939	PUR9_HUMA	Unmodified	1910100	2115600	1947400	81784	0	85642	0	0	0
HVTLGPGQSPLSR	SYNM	O15061	SYNEM_HUM	Unmodified	0	0	0	11838	0	13241	68864	62932	89783
HVTSECLGWMR	DSP	P15924	DESP_HUMA	Oxidation (M)	998990	0	1030000	48548	31837	0	0	0	0
HVVFIAQR	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7_HUMAN	Unmodified	306870	0	439720	0	0	0	0	0	0
HWELTAEGEEIAR	FARSA; FARSA; FA	Q9Y285; K7ER16	SYFA_HUMA	Unmodified	784160	1140100	733340	0	0	0	0	0	0
HWGGNVLGPK	RPL7A; RPL7A	P62424; Q5T8U2	RL7A_HUMA	Unmodified	2975400	1174500	3081700	0	0	0	0	0	0
HWPFMVVNDAGRPK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deai	807510	782960	890870	0	0	0	0	0	0
HYEDGYPGGSDNYGSLSR	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Unmodified	891490	770930	688890	180510	179790	178220	0	0	0
HYELYR	SEPTIN8; SEPTIN6;	Q92599; Q14141;	SEPT8_HUM	Unmodified	1049100	797970	932710	74915	0	0	0	0	0
HYGGLTGLNK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1_HUM	Unmodified	1594200	2119700	1624600	0	0	0	0	0	0
HYGGLTGLNKAETAAK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1_HUM	Unmodified	7313500	7033800	6164700	71891	126230	107450	0	0	0
HYGGLTGLNKAETAAK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1_HUM	Deamidation (N)	3859000	4155200	4516800	0	0	0	0	0	0
HYRGPAGDATVASEKESVM	SLC1A5; SLC1A5	Q15758; M0QXM	AAAT_HUM	Oxidation (M)	1532800	920710	820510	102020	0	78620	0	51982	42022
IAAADYIPTVEDILR	GNAZ	P19086	GNAZ_HUM	Unmodified	303330	180670	265260	0	0	0	0	0	0
IAAAGLDVTSPEPLPTNHPLLTLK	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR_HUM	Unmodified	4022600	3288900	4069300	0	0	0	0	0	0
IAAAILNTPDLR	GOT2	P00505	AATM_HUM	Deamidation (N)	781830	684270	0	0	0	0	0	0	0
IAAAILNTPDLR	GOT2	P00505	AATM_HUM	Unmodified	2615700	2191400	2243600	53068	56639	60283	0	0	0
IAAAILNTPDLRK	GOT2	P00505	AATM_HUM	Unmodified	2123600	3002600	2492500	77697	63586	62673	0	0	0
IAAANGIGR	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUMA	Deamidation (N)	3014400	5032700	3990200	0	34923	12204	0	0	0
IAAEIAQAEEQAR	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1_HUM	Unmodified	3884900	3679300	5489300	0	0	0	0	0	0
IAAGEKIPLSQEITLQGHAFEAR	MCCC1; MCCC1; M	Q96RQ3; E9PHF7	MCCA_HUM	Unmodified	3504800	4291800	2836400	0	0	0	45024	0	0
IAAGLPMAGIPFLTTDLTYR	TMEM126A; TMEM	Q9H061; E9PI90	T126A_HUM	Oxidation (M)	363090	253070	458910	0	0	0	0	0	0
IAAIDSLNQYTR	KYAT3; KYAT3	Q6YP21; A0A0A0	KAT3_HUMA	Unmodified	2224400	2062300	0	70489	77380	63478	0	0	0
IAALQAFADQLIAAGHYAK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	4774800	4182200	3060200	0	0	7751.8	0	0	0
IAAQEVPIEIKPVNPSPLSQLQR	ACOT8; ACOT8; AC	O14734; E9PJN0;	ACOT8_HUM	Unmodified	5354300	2988300	0	0	0	0	0	0	0
IAARNEKGYGPATQVR	HCFC1; HCFC1; HCI	P51610; A6NEM2	HCFC1_HUM	Deamidation (N)	2410200	2214500	2793100	33022	0	24252	0	0	0
IAASSSFR	SH3GL1	Q99961	SH3G1_HUM	Unmodified	1311500	2102100	1691700	376320	431810	489850	122600	137150	79082
IAAYLFK	CLTC; CLTC; CLTC;	Q00610; J3KRF5;	CLH1_HUMA	Unmodified	6485900	5301600	5426300	63237	64740	56398	0	20879	0
IADDADPR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	0	3971800	0	0	0	0	0	0	0
IADDKYNDTFWK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	0	510040	541670	0	0	0	0	0	0
IADDKYNDTFWKEFGTNIK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Deamidation (N)	2156800	2481200	1831000	0	0	0	0	0	0
IADDKYNDTFWKEFGTNIK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Unmodified	0	893720	0	0	0	0	0	0	0
IADFGLSNMMSDGEFLR	PRKAA1; PRKAA2;	Q13131; P54646;	AAPK1_HUM	2 Oxidation (M)	235540	254950	194780	25124	17498	0	0	0	0
IADFQDVLKEPSIALEK	TBC1D13	Q9NVG8	TBC13_HUM	Unmodified	515760	719840	546890	0	0	0	0	0	0
IADGYEQAAR	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE_HUMA	Unmodified	9896800	14690000	13783000	466600	287820	360980	0	0	0
IADLGLASFK	RIPK1	Q13546	RIPK1_HUM	Unmodified	785330	829840	780290	0	0	0	0	0	0
IADLPPANPDHIGGYR	SLC25A12	O75746	CMC1_HUM	Unmodified	0	0	207960	0	0	14478	0	0	0
IADPEHDHTGFLTEYVATR	MAPK3; MAPK3; M	P27361; E9PJF0;	MK03_HUMA	Unmodified	5697300	4398400	4940900	24617	26045	16674	0	0	0
IADQFLGAMYTLPR	KDM1A; KDM1A; K	O60341; R4GMP5	KDM1A_HUM	Oxidation (M)	4799700	4046500	4970500	10762	0	0	0	0	0
IADVVLLQK	ITPR3	Q14573	ITPR3_HUM	Unmodified	906430	653750	610570	0	11304	0	0	0	0
IAEAEIENLTGAR	OTUD6B; OTUD6B	Q8N6M0; A0A087	OTU6B_HUM	Unmodified	2448000	2433800	2388800	0	0	0	0	0	0
IAEENIMK	FAM50A	Q14320	FA50A_HUM	Oxidation (M)	3277300	2896400	2899500	165780	155330	109420	0	0	0
IAEENIMKSNIDKK	FAM50A	Q14320	FA50A_HUM	Oxidation (M)	0	677240	725890	76112	114450	61715	0	0	0
IAEESNFPFIK	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Unmodified	2161700	2224400	1900600	0	65554	91836	0	0	0
IAEFAFEYAR	IDH3A; IDH3A; IDH	P50213; H0YMU3	IDH3A_HUM	Unmodified	3352300	2702100	2604500	0	22094	23695	17333	0	14387
IAEFTTNLTEEEEK	MYH9	P35579	MYH9_HUM	Unmodified	0	1540600	0	57545	0	0	0	0	0
IAEFTTNLTEEEEKSK	MYH9	P35579	MYH9_HUM	Unmodified	3866100	4050200	5540200	170270	195290	219950	0	0	0
IAEFTTNLTEEEEKSK	MYH9	P35579	MYH9_HUM	Methyl (KR)	1179300	1626000	1139800	0	0	0	0	0	0
IAEFTTNLTEEEEKSKSLAK	MYH9	P35579	MYH9_HUM	Methyl (KR)	664400	943680	834410	0	14207	0	0	0	0
IAEHLGDSQSLGR	PIKFVVE; PIKFVVE	Q9Y2I7; E9PDH4	FYV1_HUMA	Unmodified	502790	0	463500	0	0	21049	0	0	0
IAEIEAEMAR	DRG1; DRG1	Q9Y295; F8WEE0	DRG1_HUMA	Oxidation (M)	3067200	2658000	3268600	0	0	0	0	0	0
IAEKGSTIETEQKEDKGEDSEPVTSK	ENAH; ENAH	Q8N8S7; A0A0U1	ENAH_HUM	Unmodified	1513900	2287500	1869000	214570	0	194810	0	0	0

IAELLTELHQLIK	SGF29; SGF29	Q96ES7; H3BPL5	SGF29	HUM	Unmodified	411990	254030	291190	0	0	0	0	0	0
IAELMPGASGAEVK	PSMC5	P62195	PRS8	HUM	Oxidation (M)	2104800	2343400	1810100	130060	64709	0	0	0	0
IAELSEDDQK	GTPBP4	Q9BZE4	GTPB4	HUM	Unmodified	728450	869220	790430	0	0	0	0	0	0
IAEMTDIKPILR	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP	HUM	Oxidation (M)	3743700	3821000	3573300	55321	84452	97542	0	0	0
IAEPSVCGR	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4	HUM	Unmodified	2387900	928160	1866200	0	0	0	0	0	0
IAEQEHTQEDLQQLR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	2824500	2625800	2171200	81353	87738	99873	0	0	0
IAEQELK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IAEQELKIPR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	684610	369240	468650	0	0	0	0	0	0
IAEQQKAQAEVEGLGK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	1620200	2539100	2239900	217990	164650	201090	35322	29892	39815
IAEQQKAQAEVEGLGKGVAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	2568600	3038900	1522700	1190600	936260	933290	212060	181480	224770
IAEQVASFQEEK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Unmodified	3149800	3410100	3753000	459500	367190	360890	0	0	0
IAESNHIK	ACTN4; ACTN4; AC	O43707; F5GXS2	ACTN4	HUM	Unmodified	891710	526310	507780	0	45035	48740	0	0	0
IAEVDASVVR	UQCRC1	P31930	QCR1	HUM	Unmodified	19259000	17668000	16945000	934050	1007800	1021400	0	0	15148
IAEVDASVVREICSK	UQCRC1	P31930	QCR1	HUM	Unmodified	1986800	1754800	491970	0	12560	0	0	0	13204
IAEVDCTAER	TXNDC5	Q8NBS9	TXND5	HUM	Unmodified	2093100	2565300	2277100	303670	289120	268220	0	0	0
IAEVGAGGSK	PURB	Q96QR8	PURB	HUM	Unmodified	837280	0	0	79694	0	56744	0	0	0
IAEVGGVPYLLPLVNQK	C11orf54; C11orf54;	Q9H0W9; A0A08	CK054	HUM	Unmodified	2105000	1669300	2548900	0	0	0	8838.2	0	0
IAEVGGVPYLLPLVNQK	C11orf54; C11orf54;	Q9H0W9; A0A08	CK054	HUM	Deamidation (N)	365470	342630	405060	0	0	0	0	0	0
IAFAITAIK	RPS18; RPS18; RPS1	P62269; A0A0G2	RS18	HUM	Unmodified	368020	328940	449480	30949	0	0	0	31001	0
IAFFSSR	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2	HUM	Unmodified	773040	0	768440	33852	34446	32094	0	0	0
IAFFSTR	EHMT1; EHMT1	Q9H9B1; A0A1B	EHMT1	HUM	Unmodified	905170	582840	750440	0	0	12992	0	0	0
IAFGGETDEATR	ALDH3A2; ALDH3A	P51648; A0A5F9	AL3A2	HUM	Unmodified	1879600	2023300	2496400	0	0	0	0	0	0
IAFGGHQR	SMC1A; SMC1A; SM	Q14683; G8JLG1	SMC1A	HUM	Unmodified	1401200	0	1358200	0	79152	94748	0	0	0
IAFIMDESNVLDSGFLER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	3309600	1815500	3106900	0	0	0	0	0	0
IAFLQGER	STRN; STRN3; STRN	O43815; Q13033	STRN	HUM	Unmodified	0	1521400	0	31228	0	34526	0	0	0
IAFSCPQKELPDLEDLMKR	GLOD4; GLOD4	Q9HC38; F6TLX2	GLOD4	HUM	Oxidation (M)	0	1060000	2247800	0	0	0	0	0	0
IAFSSTSLLK	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9	HUM	Unmodified	3273600	2996300	2542900	52265	50013	60338	39731	40392	0
IAFTEWIEPPKR	SMARCA5	O60264	SMCA5	HUM	Unmodified	6285700	5364400	4665300	56184	26149	32818	0	0	0
IAFTEWIEPPKRER	SMARCA5	O60264	SMCA5	HUM	Unmodified	1788300	1940600	1950800	0	0	0	0	0	0
IAGDQSTLQR	SMPDL3B; SMPDL3	Q92485; F8VWW	ASM3B	HUM	Unmodified	968670	1104600	1094100	0	0	0	0	0	0
IAGEASRLAHYNKR	H2BC4; H2BC19P; H	P62807; Q6DRA6	H2B1C	HUM	Deamidation (N)	2755500	2827100	5178600	0	0	0	0	0	0
IAGFDER	PRKDC	P78527	PRKDC	HUM	Unmodified	75000000	130630000	99759000	0	0	0	0	0	0
IAGGTSNEVAQFLSK	ESRP1; ESRP1; ESRI	Q6NXG1; H0YBR	ESRP1	HUM	Unmodified	440380	323480	323180	0	0	0	0	0	0
IAGGTSNEVAQFLSKENQVIVR	ESRP1; ESRP1; ESRI	Q6NXG1; H0YBR	ESRP1	HUM	Unmodified	0	837090	0	0	0	0	0	0	0
IAGLCNR	ATP1A1; ATP1A2; A	P05023; P50993;	AT1A1	HUM	Unmodified	1477000	198300	1217400	190990	143020	145630	0	0	0
IAGMDPVVHSALQEER	PANK4; PANK4	Q9NVE7; E9PHT	PANK4	HUM	Oxidation (M)	1908300	1659800	2203700	0	0	0	0	0	0
IAGPGLGSGVR	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	4063900	3797700	5485700	534920	538350	588740	79158	0	78876
IAGQVAAANK	RPS19; RPS19	P39019; A0A075	RS19	HUM	Unmodified	3792100	3227500	4105400	190220	240610	204700	0	0	0
IAGQVAAANK	RPS19; RPS19	P39019; A0A075	RS19	HUM	Deamidation (N)	901180	0	0	0	0	0	0	0	0
IAGQVAAANKKH	RPS19; RPS19	P39019; A0A075	RS19	HUM	Unmodified	733390	626560	754120	0	82357	59304	0	0	0
IAHVELADAGQYR	HSPG2	P98160	PGBM	HUM	Unmodified	1128800	1121200	799360	834760	620160	160500	192860	0	152000
IAILDIEPQTLK	MPP1	Q00013	EM55	HUM	Unmodified	1053400	665000	1249600	13076	0	0	0	0	0
IAILGYR	RHEB; RHEB	Q15382; F8WBL3	RHEB	HUM	Unmodified	295600	230280	0	0	19059	23837	0	0	0
IAILTCPFEPPKPK	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE	HUM	Unmodified	3034900	2973400	2593500	56835	61059	59277	0	13892	0
IAIPGLAGAGNSVLLVSNLNPER	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Unmodified	6489000	2247000	3646900	0	0	0	0	0	0
IAIPGLAGAGNSVLLVSNLNPER	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	Deamidation (N)	17988000	3741300	12401000	0	0	0	0	0	0
IAIPGLAGAGNSVLLVSNLNPER	PTBP1; PTBP1; PTB	P26599; A6NLN1	PTBP1	HUM	2 Deamidation (N)	348460	69550	169170	0	0	0	0	0	0
IAIYELLFK	RPS10; RPS10-NUD1	P46783; A0A2R8	RS10	HUM	Unmodified	21946000	17533000	24069000	12969	0	20118	16014	29573	14125
IAIYELLFKEGVMVAK	RPS10; RPS10-NUD1	P46783; A0A2R8	RS10	HUM	Oxidation (M)	756150	174580	646480	0	0	0	0	0	0
IAIYELLFKEGVMVAKK	RPS10; RPS10-NUD1	P46783; A0A2R8	RS10	HUM	Unmodified	401040	220050	928600	0	0	0	0	0	0
IAKEEIFGPVQQIMK	ALDH1A1	P00352	AL1A1	HUM	Oxidation (M)	501170	497500	558880	0	0	0	0	0	0
IAKEIQVIPLQRDDED	IMPA1	P29218	IMPA1	HUM	Unmodified	28547000	28410000	26536000	1370600	1415100	1289500	68047	59171	57463
IALDFQR	LGALS3; LGALS3	P17931; G3V3R6	LEG3	HUM	Unmodified	31713000	20732000	26229000	0	0	0	0	0	0
IALENQLEQLRPVTVL	REPS2	Q8NFH8	REPS2	HUM	Unmodified	889980	510010	882470	0	0	0	0	0	0
IALITVTDK	PCDH11Y; PCDH11	Q9BZA8; Q9BZA	PC11Y	HUM	Unmodified	2353100	2581600	2551200	0	0	11503	0	0	0
IALLEEAK	RDX; RDX; RDX	P35241; A0A2R8	RADI	HUM	Unmodified	1149700	1095400	883410	23066	0	23678	0	0	0
IALLEEARR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Unmodified	1692900	1341200	1738600	98590	71779	109060	0	0	0
IALLPLLQAETDR	NDUFA13; NDUFA1	Q9P0J0; K7EJE1	NDUAD	HUM	Unmodified	0	232920	226340	0	0	0	0	0	0
IALLPLLQAETDRR	NDUFA13; NDUFA1	Q9P0J0; K7EJE1	NDUAD	HUM	Unmodified	7477600	4370100	5890600	0	0	0	0	0	0
IALTDNALIAR	RPL7; RPL7	P18124; A8MUD5	RL7	HUM	AN Unmodified	26422000	22506000	22303000	1318600	1114100	1172100	139160	155790	122280
IALTDNALIAR	RPL7; RPL7	P18124; A8MUD5	RL7	HUM	AN Deamidation (N)	4903000	3768900	4125100	507700	463190	483260	66393	37763	0
IALVITDGR	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	1810500	1635900	2007900	505140	576640	633420	147490	141500	91639
IALVITDGRSDTQR	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	308870	368180	336060	86299	87256	66916	22292	24099	26055
IALYETPTGWK	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Unmodified	6677700	4545600	3423800	0	0	0	0	0	0
IALYETPTGWKFFGNLMDASK	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Oxidation (M)	835880	473990	611470	0	0	0	0	0	0
IALYGLGSIPDER	MRE11; MRE11; MR	P49959; F5GXT0	MRE11	HUM	Unmodified	1284100	1607700	1075800	0	0	0	0	0	0
IALYGLGSIPDERLYR	MRE11; MRE11; MR	P49959; F5GXT0	MRE11	HUM	Unmodified	1457500	1083300	758350	0	0	0	0	0	0
IAMQTLDMGR	ACADS; ACADS	P16219; E9PE82	ACADS	HUM	2 Oxidation (M)	721630	882190	699120	0	0	0	0	0	0
IANATEGSSER	PCBP3; PCBP3; PCB	P57721; E9PFP8	PCBP3	HUM	Unmodified	0	411800	0	0	0	0	0	0	0
IANFKIEPPGLFR	TOP1	P11387	TOP1	HUM	Unmodified	2725100	3016000	2530600	22477	0	0	0	0	0
IANFKIEPPGLFR	TOP1	P11387	TOP1	HUM	Deamidation (N)	9010500	6769200	7055000	41580	18066	12532	0	0	14097
IANFKIEPPGLFR	TOP1	P11387	TOP1	HUM	Methyl (KR)	937650	1060500	951780	0	0	0	0	0	0
IANILKDKDPPIPVAK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	8093200	8489700	7863700	185710	143200	196780	0	0	0
IANPVEGSSGR	PCBP1	Q15365	PCBP1	HUM	Unmodified	23427000	27847000	18598000	1142300	1055700	1170800	0	0	0
IANPVEGSTDR	PCBP2; PCBP2; PCB	Q15366; F8VZX2	PCBP2	HUM	Unmodified	12225000	12047000	12112000	830890	840130	877180	0	0	0
IANPVEGSTDRQVTITGSAASISLAQYLINVR	PCBP2; PCBP2; PCB	Q15366; F8VZX2	PCBP2	HUM	Unmodified	908340	0	0	0	0	0	0	0	0
IAPELYHK	KARS1	Q15046	SYK	HUM	Unmodified	1016100	717620	836180	0	0	0	0	0	0
IAPESAIK	SLC25A25; SLC25A2	Q6KCM7; Q9BV3	SCMC2	HUM	Unmodified	405940	307230	547440	0	0	0	0	0	0
IAPLAEGALPYNLAELQR	SLC25A12	O75746	CMC1	HUM	Unmodified	4247200	4259700	4067800	0	0	0	0	0	0
IAPLEEGTLPFNLAEAQR	SLC25A13	Q9UJS0	CMC2	HUM	Unmodified	21430000	25071000	24596000	0	0	21836	36009	0	20496
IAPLEEGTLPFNLAEAQR	SLC25A13	Q9UJS0	CMC2	HUM	Deamidation (N)	935400	1006000	1242100	0	0	0	0	0	0
IAPPEAPVTGYMFGK	PARP1; PARP1	P09874; A0A7I2	PARP1	HUM	Oxidation (M)	33425000	31369000	31848000	495970	430460	452660	41745	17236	45245
IAPSFAVESIEDALK	CPS1; CPS1	P31327; A0A669	CPSM	HUM	Unmodified	392430	0	0	0	0	0	0	0	0
IAPVHIDSEAISALVK	PDS5A	Q29RF7	PDS5A	HUM	Unmodified	1062200	989730	1357200	0	0	0	0	0	0
IAPVHIDTESISALIK	PDS5B	Q9NTI5	PDS5B	HUM	Unmodified	935000	556660	744220	0	0	0	0	0	0
IAPYSVEIK	PRKDC; PRKDC	P78527; F5GX40	PRKDC	HUM	Unmodified	0	1216300	1277000	20216	14379	0	0	0	0
IAQATDRSDPLMDTLSSMNR	UBR7; UBR7; UBR7	Q8N806; E9PCJ7	UBR7	HUM	A 2 Oxidation (M)	1545600	888820	1286400	0	0	0	0	0	0
IAQDLEMYGINYFEIK	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Oxidation (M)	3774800	0	2762600	0	0	0	0	0	0
IAQDLEMYGVNYFSIK	MSN	P26038	MOES	HUM	Oxidation (M)	1671400	1312800	1620800	0	0	0	0	0	0
IAQFLSDIPETVPLSTVNR	ACAA1; ACAA1; AC	P09110; H7C131	THIK	HUM	Unmodified	566740	804200	808400	0	0	0	0	0	0
IAQITGPPDR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Unmodified	10800000	8204900	10165000	742800	655790	723700	33853	0	32844
IAQITGPPDRCQHAAEIITDLLR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Unmodified	3178500	2422300	3762300	0	0	0	0	0	0
IAQLASITGPQSR	EP400	Q96L91	EP400	HUM	Unmodified	773160	598030	803330	0	0	0	0	0	0
IAQLEEELEEEQGNTELINDR	MYH9	P35579	MYH9	HUM	Unmodified	2751800	2711400	3168500	0	0	0	0	0	0
IAQLEEELEEEQGNTELINDRLK	MYH9	P35579	MYH9	HUM	Unmodified	5668000	1795500	1843900	0	0	0	0	0	0
IAQLEEELEEEQGNTELINDRLK	MYH9	P35579	MYH9	HUM	2 Deamidation (N)	4758300	0	2966100	0	0	0	0	0	0
IAQLEEELEEEQGNTELINDRLK	MYH9	P35579	MYH9	HUM	Deamidation (N)	9209100	6497700	7520900	0	0	0	0	0	0
IAQLEEELEEEQGNTELINDRLKK	MYH9	P35579	MYH9	HUM	Deamidation (N)	870050	589330	1058800	0	0	0	0	0	0
IAQLEEQLDNETK	MYH9	P35579	MYH9	HUM	Unmodified	1887200	1601600	1713800	67946	63994	114130	0	0	0
IAQLEEQLDNETKER	MYH9	P35579	MYH9	HUM	Deamidation (N)	3013500	2371600	4341600	47710	71971	56884	0	0	0
IAQLEEQLDNETKER	MYH9	P35579	MYH9	HUM	Unmodified	13459000	11412000	11836000	300300	359330	182300	0	0	0
IAQLEEQLDNETKER	MYH9	P35579	MYH9	HUM	Methyl (KR)	823390	1376200	743580	0	0	0	0	0	0
IAQLICER	DUT; DUT; DUT; DU	P33316; H0YNW5	DUT	HUM	AN Unmodified	2247700	2032100	2719100	0	31601	0	0	0	0
IAQNFGLQHLSSGHFLR	AK4	P27144	KAD4	HUM	Unmodified	1727600	1110300	1346500	0	0	0	0	0	0
IAQPGDHVSVTGIFLPILR	MCM7; MCM7	P33993; C9J8M6	MCM7	HUM	Unmodified	4236500	4678800	4492800	0	0	0	0	0	0
IAQPNYIPTQQDVLR	GNAI1; GNAI1	P63096; A0A3B3	GNAI1	HUM	Unmodified	468740	435900	526760	45779	39668	36755	0	0	0
IAQPSMTASPQTEEFFDLIASSQSR	GPSM1; GPSM1; GP	Q86YR5; A0A0A	GPSM1	HUM	Oxidation (M)	1181100	0	914080	0	0	0	0	0	0
IAQSAELADREK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	1584600	1517600	1851900	0	49923	0	0	0	0
IAQSDYIPTQQDVLR	GNAI2	P04899	GNAI2	HUM	Unmodified	5459200	4117400	4824600	885610	802750	910880	0	0	83924
IAQSDYIPTQQDVLRTR	GNAI2	P04899	GNAI2	HUM	Unmodified	0	0	0	254350	301570	176910	0	0	0
IAQSEAELISDEAQADLALRR	MYO6; MYO6; MYO	Q9UM54; A0A0A	MYO6	HUM	Unmodified	1089100	850420	776300	0	0	0	0	0	0
IAQVSPGPR	INCENP	Q9NQS7	INCE	HUM	Unmodified	0	562170	531050	0	0	0	0	0	0
IARDEGGKAFFK	SLC25A5	P05141	ADT2	HUM	Unmodified	961010	909240	945340	0	18846	0	0	0	0
IARELAEDDSILK	ATP5ME	P56385	ATP5I	HUM	Unmodified	7051200	8610400	4851900	3264800	2672800	3550100	403000	380760	63140
IASAPEPR	CC2D1A; CC2D1A	Q6P1N0; K7EJY5	C2D1A	HUM	Unmodified	2460300	2032100	2913500	799790	622610	608860	0	0	0
IASDEEIQGTK	PALLD; PALLD	Q8WX93; A0A3B	PALLD	HUM	Unmodified	280020	0	0	0	0	0	0	0	0
IASLEQR	EML1; EML1; EML1	O00423; G3V5C8	EMAL1	HUM	Unmodified	2130000	1735100	285730	36466	47795	0	0	0	0
IASLEVENQSLR	EEF1D; EEF1D; EEF	P29692; E9PL71	EF1D	HUM	Unmodified	9435800	9959300	9105300	51296	38350	0	0	0	0
IASLEVENQSLR	EEF1D; EEF1D; EEF	P29692; E9PL71	EF1D	HUM	Deamidation (N)	2328000	1991700	2458900	0	0	0	0	0	0
IASLLHR	CDC5L	Q99459	CDC5L	HUM	Unmodified	550760	656430	499970	0	0	0	0	0	0
IASLPQEVQDVSLLEK	RPRD1B; RPRD1B	Q9NQG5; A2A2M	RPR1B	HUM	Unmodified	6314200	4156400	6067000	0	0	0	0	0	0
IASLPQEVQDVSLLEKITDKEAAER	RPRD1B; RPRD1B	Q9NQG5; A2A2M	RPR1B	HUM	Unmodified	5454000	3729900	4915600	0	0	0	0	0	0
IASLPVEVQEVSLLDK	RPRD1A; RPRD1A;	Q96P16; A0A0C4	RPR1A	HUM	Unmodified	483710	713170	470030	0	0	0	0	0	0
IASLPVEVQEVSLLDKITDKESGER	RPRD1A; RPRD1A;	Q96P16; A0A0C4	RPR1A	HUM	Unmodified	3775800	474750	0	0	0	0	0	0	0
IASLPVEVQEVSLLDKITDKESGERLSK	RPRD1A; RPRD1A;	Q96P16; A0A0C4	RPR1A	HUM	Unmodified	814370	1366000	861690	0	0	0	0	0	0
IASNSATAFR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2889800	2588000	2503900	610960	251140	648430	0	224080	0
IASNSATAFR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Deamidation (N)	2116400	0	1855300	326410	263930	719740	74798	286060	0
IASNSKIVVAMAK	ECHS1	P30084	ECHM	HUM	Oxidation (M);Deam	764900	887920	0	0	0	18052	0	0	0
IASPEGQDYLK	RTCB	Q9Y3I0	RTCB	HUM	Unmodified	0	0	0	222410	203390	0	0	0	0
IASPEGQDYLKGMAAAGNYAWVNR	RTCB	Q9Y3I0	RTCB	HUM	Oxidation (M)	1464500	1240200	0	0	0	0	0	0	0
IASQVAALDLGYKPGVEAIR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	2066200	1565700	1423900	0	0	0	0	0	0
IASWADLVNAHVVPGSGVVK	UMPS	P11172	UMPS	HUM	Unmodified	1201100	715600	1435900	0	0	0	0	0	0

IATANMLGIR	MRPL16	Q9NX20	RM16_HUMA	Oxidation (M)	1605400	1479900	1428200	126440	40265	47763	0	0	0
IATANMLGIR	MRPL16	Q9NX20	RM16_HUMA	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
IATGSFLK	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Unmodified	1609600	17060000	17201000	149390	150660	158910	0	11698	0
IATLGYLPTQQDVLR	GNA11; GNA11; GN	P29992; A0A087\	GNA11_HUM	Unmodified	4912700	1055100	918700	16838	7072	0	0	0	0
IATSLDGFDVASVQQQR	PLIN3; PLIN3	O60664; K7ERZ3	PLIN3_HUM/	Unmodified	2692100	1425000	3647600	325660	472280	295010	19944	23749	22797
IATTTASAATAAAIGATPR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUN	Unmodified	9446400	9176100	9477800	2388100	2268300	2467600	335410	411060	470920
IAVAAASKPAVEIK	CRABP2; CRABP2	P29373; Q5SYZ4	RABP2_HUM	Unmodified	509170	780110	613720	0	0	0	0	0	0
IAVAAASKPAVEIKQEGDTFYIK	CRABP2; CRABP2	P29373; Q5SYZ4	RABP2_HUM	Unmodified	4638400	4866700	6978400	0	0	0	0	0	0
IAVAAQNCYK	TPI1	P60174	TPIS_HUMAN	Unmodified	14561000	15888000	15182000	421420	351030	361500	0	0	0
IAVAAQNCYK	TPI1	P60174	TPIS_HUMAN	Deamidation (N)	7558200	7281700	8968100	102220	130520	137210	0	0	0
IAVAHNGELVNAAR	PPAT; PPAT	Q06203; D6RCC8	PUR1_HUMA	Deamidation (N)	641260	514600	456750	0	0	0	0	0	0
IAVAQYSDDVK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	1182300	1162000	771090	0	567470	459610	0	0	0
IAVAQYSDDVKVESR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Unmodified	4734400	5833600	6921500	3679600	2148900	2081800	907450	727100	935840
IAVAQYSDDVKVESR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3_HUM	Methyl (KR)	408980	0	0	462060	400540	426360	146870	126660	118130
IAVAVLEETTR	RGPD3; RGPD2; RA	A6NKT7; P0DJD1	RGPD3_HUM	Unmodified	0	0	0	67880	56339	61722	0	0	0
IAVEAQNKYER	TPR	P12270	TPR_HUMAN	Unmodified	1489200	1196700	1258600	0	61699	62362	0	0	0
IAVEPVNPSELPK	EFTUD2	Q15029	US51_HUMA	Unmodified	6063400	5580000	5144500	208250	188130	244000	0	0	0
IAVHPDYQGMGYGSR	NAT10; NAT10	Q9H0A0; A0A087	NAT10_HUM	Oxidation (M)	2392200	1848200	1664700	25595	26834	53993	0	0	0
IAVMELFRPK	DDB1; DDB1; DDB1	Q16531; A0A7P0(	DDB1_HUMA	Oxidation (M)	2764200	2795000	1493600	0	0	12389	0	0	0
IAVQPGTVGPQGR	COL4A2	P08572	CO4A2_HUM	Unmodified	8587300	7848600	7847800	2630400	3038700	3023400	260480	2235100	2355500
IAVSKPSGPQPQADLQALLQSGAQVR	PLD3; PLD3	Q8IV08; M0R1F7	PLD3_HUMA	Unmodified	8696700	6588500	8443500	0	0	0	0	0	0
IAVTGTGAHPAFK	GPX7	Q96SL4	GPX7_HUMA	Unmodified	734370	682870	637560	0	0	0	0	0	0
IAVYHLQELASAELAK	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	0	0	0	0	0	0	0	0	0
IAWALSR	GLO1	Q04760	LGUL_HUMA	Unmodified	39368000	34550000	29054000	877470	802650	946860	113020	0	44719
IAWTHITIPESLR	TOLLIP; TOLLIP; TC	Q9H0E2; E9PP67;	TOLIP_HUM/	Unmodified	691020	775530	719560	0	0	0	0	0	0
IAYFTLPK	UPF1	Q92900	RENT1_HUM	Unmodified	3162300	2612200	2445800	0	128370	144980	18169	0	0
IAYTFAR	LONP1; LONP1; LO	P36776; K7ERR6;	LONM_HUM	Unmodified	4981400	3777000	3866000	0	384330	0	0	0	0
ICADLFR	LETM1	O95202	LETM1_HUM	Unmodified	0	465230	0	0	0	0	0	0	0
ICDDELILIK	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA_HUMA	Unmodified	2762700	1432600	2053200	104440	99805	68657	0	14575	0
ICDDELILIKNTK	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA_HUMA	Unmodified	417550	796130	0	85218	95994	0	0	0	0
ICGDIHGQYTDLLR	PPP1CB; PPP1CB; P	P62140; E7ETD8;	PP1B_HUMA	Unmodified	1411100	814920	881970	13899	0	0	0	0	0
ICPVEFNPNFVAR	TRMT112; TRMT11;	Q9UI30; F5GX77	TR112_HUM	Unmodified	3801100	2874400	2153900	92558	112290	104380	0	0	0
ICPVETLVEEAIQCAEK	ECHS1	P30084	ECHM_HUM	Unmodified	292150	68818	202610	0	0	0	0	0	0
ICSLILADNK	IPO4; IPO4; IPO4	Q8TEX9; H0YMR	IPO4_HUMA	Unmodified	2850000	0	0	0	0	0	0	0	0
IDAFHYIQLGTVYR	NT5DC3	Q86UY8	NT5D3_HUM	Unmodified	0	545970	646450	0	0	0	0	0	0
IDAFHYVQLGTAYR	NT5DC2; NT5DC2; N	Q9H857; C9J036;	NT5D2_HUM	Unmodified	0	442620	332830	0	44737	0	0	0	0
IDAMHGVVGPYVK	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUM/	Oxidation (M)	1502500	1537900	1708800	33128	43284	42509	0	0	0
IDASELSFPFHESILK	TMPO	P42166	LAP2A_HUM	Unmodified	3495800	3499200	3788200	0	0	0	0	0	0
IDASKNEEDEGHSNSSPR	HNRNPD; HNRNPD;	Q14103; D6RD83	HNRPD_HUM	Deamidation (N)	1889900	2267400	2853400	259500	314540	315240	0	0	0
IDASKNEEDEGHSNSSPR	HNRNPD; HNRNPD;	Q14103; D6RD83	HNRPD_HUN	2 Deamidation (N)	2025700	1812600	2566500	111180	137950	238940	0	0	0
IDASKNEEDEGK	HNRNPD	D6RBQ9	D6RBQ9_HU!	Deamidation (N)	0	0	0	0	0	0	0	0	0
IDASQFR	TBC1D9B; TBC1D9I	Q66K14; G3V133	TBC9B_HUM	Unmodified	383070	474070	384740	0	0	0	0	0	0
IDATSASVLASR	PDIA4; PDIA4	P13667; A0A499I	PDIA4_HUM/	Unmodified	15455000	12934000	15775000	432620	510710	453180	0	0	0
IDAVNAETIR	PMPCB; PMPCB	O75439; G3V0E4	MPPB_HUM/	Unmodified	0	0	0	0	0	0	0	0	0
IDCFSEVPTSVFGEK	NOP56; NOP56; NOI	O00567; A0A494(	NOP56_HUM	Unmodified	469690	458070	596750	0	0	0	0	0	0
IDCNLLEFK	ATP6V1C1; ATP6V1	P21283; E7EV59	VATC1_HUM	Unmodified	0	336460	377730	0	34898	27977	0	0	12700
IDDIFER	SPTBN1; SPTBN1	Q01082; A0A087\	SPTB2_HUM	Unmodified	6412300	6186000	5406900	1399300	1231800	1179200	0	0	0
IDDIRKPGESEE	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE_HUMA	Unmodified	1872700	1564800	1527800	119550	0	0	0	0	0
IDDMTAAPMDVR	RPA2; RPA2	P15927; Q5TEJ7	RFA2_HUMA	2 Oxidation (M)	2896200	2709700	3375800	0	67379	59891	0	0	0
IDDPTDSKPEDWDKPEHIPDPDAK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Unmodified	13469000	15959000	16265000	227450	351730	237530	0	0	0
IDDPTDSKPEDWDKPEHIPDPDAK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Methyl (KR)	1999800	2519200	1753500	0	103790	0	0	0	0
IDDSKEAMER	TRA2A	Q13595	TRA2A_HUM	Oxidation (M)	594960	574390	644460	60177	0	0	0	0	0
IDDVLHTLTGAMSLLR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUM/	Oxidation (M)	873390	638960	807040	0	0	0	0	0	0
IDEELTGK	NUP85; NUP85; NUI	Q9BW27; J3KSH2	NUP85_HUM	Unmodified	504160	646220	412060	0	0	0	0	0	0
IDEINKELNQVMEQLGDAR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Oxidation (M)	299140	181860	0	0	0	0	0	0	0
IDELEPR	GANAB; GANAB	Q14697; F5H6X6	GANAB_HUN	Unmodified	15418000	17649000	22555000	1193100	926290	1186500	0	0	0
IDELRLFPPDDSPLPVSSR	SRSF11; SRSF11; SR	Q05519; B4DWT1	SRS11_HUM	Unmodified	976960	989970	1727500	0	0	0	0	0	0
IDEMPEAAVK	HDGF	P51858	HDGF_HUM/	Oxidation (M)	25596000	25017000	25797000	1315300	1508900	1385600	0	0	0
IDEPLEGSEDR	HNRNPK; HNRNPK	P61978; S4R359	HNRPK_HUN	Unmodified	27782000	24926000	31953000	717250	1027800	860300	0	0	0
IDEYDYSKPPQGQQK	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUM/	Unmodified	6666300	7031800	6474900	404030	449060	544760	0	0	0
IDFGEAAR	GNAI3	P08754	GNAI3_HUM	Unmodified	155980	2436000	2177300	34673	46335	0	0	0	0
IDFLPHYDTLVK	SMCHD1	A6NHR9	SMHD1_HUM	Unmodified	2756600	1561100	1577800	10141	0	0	0	0	0
IDFSKLTSLNVK	PTBP1; PTBP3; PTB	P26599; O95758;	PTBP1_HUM	Unmodified	661940	580380	470630	0	0	0	0	0	0
IDFSSIAVPGTSSPR	DDI2	Q5TDH0	DDI2_HUMA	Unmodified	1692600	2758100	1449900	52514	67368	0	28430	50271	0
IDGATQSSPAEPK	LRRFIP1	Q32MZ4	LRRF1_HUM	Unmodified	0	478270	622030	0	0	0	0	0	0
IDGAVIPDHWLDPSAVWEVK	LIG1; LIG1	P18858; F5GZ28	DNLI1_HUM	Unmodified	145110	386400	127430	0	0	0	0	0	0
IDGGITGNMR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M)	372870	719700	639110	0	21527	21010	0	0	0
IDGGITGNMR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M);Deai	439840	385550	0	0	19261	0	0	0	0
IDHILDAL	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	4451300	4009000	5276500	54273	65115	14765	0	0	0
IDIDPEETVK	RAD23B; RAD23B	P54727; Q5W0S5	RD23B_HUM	Unmodified	9188700	6121800	5813600	0	0	0	0	0	0
IDIDYQKLHDAFFK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM/	2 Methyl (KR)	333420	0	0	0	0	0	0	0	0
IDIIPNPQER	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Unmodified	74969000	63811000	72113000	5127500	4400500	5241400	185990	194530	240450
IDILDSALLRPGR	PSMC5	P62195	PRS8_HUMA	Unmodified	1923400	1038500	1688300	0	0	13338	0	0	0
IDILVNNGGMSQR	DHRS7; DHRS7	Q9Y394; H0YJ66	DHRS7_HUM	Oxidation (M);Deai	0	871540	828820	113960	120150	126890	0	0	0
IDINKEIEQR	DSG2	Q14126	DSG2_HUMA	Unmodified	973170	709220	488010	0	0	0	0	0	0
IDISPVLLQK	MRE11; MRE11; MR	P49959; F5GXT0;	MRE11_HUM	Unmodified	1763500	1112100	1457400	0	0	0	0	0	0
IDIVENR	ASS1	P00966	ASSY_HUMA	Unmodified	1108800	1064200	1454000	324330	203330	0	0	0	0
IDIVENRFIGMK	ASS1	P00966	ASSY_HUMA	Oxidation (M)	941010	1297500	0	128110	157480	116500	0	0	0
IDKAVAFQNPQTHVIENLHAAAYR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Unmodified	1340900	1051600	1466500	0	0	0	0	0	0
IDKLMIEMDGTENK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA_HUM/	2 Oxidation (M)	5075300	3675100	3162000	0	0	0	0	0	0
IDKLMIEMDGTENK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA_HUM/	2 Oxidation (M);De	1074700	1086700	1075000	0	0	0	0	0	0
IDKTDYMVGSYGPR	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Oxidation (M)	2774300	3818100	2589500	0	0	0	0	0	0
IDLAVLLGK	UBAP2L; UBAP2L; U	Q14157; F8W726;	UBP2L_HUM	Unmodified	5900600	3722000	3265200	0	0	16558	14074	11400	14790
IDLFREEVGGR	PCYOX1; PCYOX1	Q9UHG3; F8W8V	PCYOX_HUM	Unmodified	3668500	3067200	4306100	134250	145760	150550	17561	0	0
IDLLAQPR	CEP170; CEP170	Q5SW79; H0Y2V(	CE170_HUM	Unmodified	0	906250	0	0	0	0	0	0	0
IDLNYLR	NIT1	Q86X76	NIT1_HUMA	Unmodified	0	2573900	2270200	61824	61889	0	0	0	0
IDLPEVQIEHDPELEK	ZNF638	Q14966	ZN638_HUM	Unmodified	351910	337790	392630	0	0	0	0	15746	26497
IDLQVPSSESK	RTF1	Q92541	RTF1_HUMA	Unmodified	640970	1509400	550490	0	0	0	0	0	0
IDMGRFDLIGLEGR	SRCAP; SRCAP; N/A	Q6ZRS2; A0A0A(	SRCAP_HUM	Oxidation (M)	417130	0	626040	0	0	0	0	0	0
IDMNLTDLLGELQR	SEC23B; SEC23A; SI	Q15437; Q15436;	SC23B_HUM	Oxidation (M)	243310	136100	263450	0	0	0	0	0	0
IDMNLTDLLGELQR	SEC23B; SEC23A; SI	Q15437; Q15436;	SC23B_HUM	Oxidation (M);Deai	216090	77990	103460	0	0	0	0	0	0
IDNLDVNR	PSIP1	O75475	PSIP1_HUMA	Unmodified	1895200	1807900	2517000	0	0	0	0	0	0
IDNSQVESGSLEDDWDFLPPK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Unmodified	984940	987710	746620	0	0	0	0	0	0
IDNSQVESGSLEDDWDFLPPK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Deamidation (N)	2932800	2536900	2388400	0	0	0	0	0	0
IDNSQVESGSLEDDWDFLPPKK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Unmodified	3133200	2455600	3527800	0	0	0	0	0	0
IDNSQVESGSLEDDWDFLPPKK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM/	Deamidation (N)	10418000	6434600	13591000	0	0	0	0	0	0
IDPASESKLIEQAFRK	FOXK2; FOXK2; FO	Q01167; E9PM37	FOXK2_HUM	Unmodified	273230	243200	275560	0	0	0	0	0	0
IDPDMSVLR	TAF2	Q6P1X5	TAF2_HUMA	Oxidation (M)	393300	643870	0	0	27471	0	0	0	0
IDPNPADSQK	TIPRL	O75663	TIPRL_HUM/	Unmodified	2340000	1666900	1466100	54918	64798	42713	0	0	0
IDPTVLLGALPLR	PTPMT1; PTPMT1	Q8WUK0; E9PQA	PTPM1_HUM	Unmodified	220800	179800	218050	0	0	0	0	0	0
IDQLNRELAEQK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	927040	1580900	0	0	0	15509	0	0	0
IDQSKFQETEFLSPPR	TMPO	P42166	LAP2A_HUM	Unmodified	5226600	4415100	3863600	53359	52636	25633	0	0	0
IDQVIVRTMSGDMSR	N/A	N/A	N/A	Unmodified	0	288670	0	0	0	0	0	0	0
IDQVNQLLELDHQKR	COPS2; COPS2	P61201; B4DIH5	CSN2_HUMA	Unmodified	1440400	961840	1276600	0	0	0	0	0	0
IDRPEAISEER	SAR1B; SAR1B; SAI	Q9Y6B6; D6RD6!	SAR1B_HUM	Unmodified	0	0	596310	0	0	17667	0	0	0
IDSIPHLNNSTPLVDPSVYGYGVQK	FUBP3	Q96I24	FUBP3_HUM	Deamidation (N)	1957900	625130	992520	0	0	0	0	0	0
IDSLLENDR	CLU; CLU; CLU; CL	P10909; H0YLK8	CLUS_HUMA	Unmodified	0	28084000	0	0	0	0	0	0	0
IDSLSAQLSQLQK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM/	Unmodified	6114500	5483400	1057500	63773	26038	16271	11606	0	13206
IDSPGFKPASQQVYR	TJP1; TJP1; TJP1	G5E9E7; A0A7I2	G5E9E7_HUM	Unmodified	1539600	1253400	1704500	84187	135070	94880	0	0	0
IDSLEQYTSAIEGTK	CALD1; CALD1; CA	Q05682; C9J813;	CALD1_HUM	Unmodified	0	1615800	1780000	84669	163150	71113	284490	133390	127190
IDTIEIITDR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	40996000	43031000	32968000	401350	318830	333740	97545	96619	87056
IDTIEIITDRQSGK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	2798200	4290900	4392800	33546	76544	122870	0	0	0
IDTRNELESYAYSLK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Deamidation (N)	8008000	9893700	5922900	59924	0	0	8697.8	0	11225
IDTRNELESYAYSLK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	11196000	12827000	11739000	55226	38361	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Methyl (KR)	10067000	9831900	6549900	0	0	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	2 Deamidation (N)	1933300	1600300	1617000	0	0	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Methyl (KR);2 Dea	1940700	1443500	1684100	0	0	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Deamidation (N)	4179300	4300200	3207300	0	0	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Methyl (KR);Deam	5798300	9487000	2731000	0	0	0	0	0	0
IDTRNELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	8316500	6174200	12782000	0	0	0	0	0	0
IDVDAPDIDHGPDAK	AHNAK	Q09666	AHNK_HUMA	Unmodified	0	1079000	0	0	144530	149530	54460	0	41756
IDVESLSSASQLDQALR	ESRP1; ESRP1	Q6NXG1; A0A2U	ESRP1_HUM	Unmodified	0	1586900	0	0	0	0	0	0	0
IDVGEAEPR	YARS1; YARS1	P54577; A0A6Q8	SYYC_HUMA	Unmodified	1737800	1870000	1918300	0	127430	218460	0	0	0
IDVLDPEELK	PBDC1; PBDC1	Q9BVG4; A6NDF	PBDC1_HUM	Unmodified	640390	693190	416170	0	0	0	0	0	0
IDVLDPEELKSESAK	PBDC1; PBDC1	Q9BVG4; A6NDF	PBDC1_HUM	Unmodified	2019300	1576400	0	0	0	0	0	0	0
IDVTTDGR	TRNT1; TRNT1; TR	Q96Q11; A0A494	TRNT1_HUM	Unmodified	916740	689390	487360	106360	67201	70471	0	0	0
IDYIAGLDSR	APRT; APRT; APRT	P07741; H3BQF1;	APT_HUMAN	Unmodified	475890	508070	615790	26941	0	0	0	0	0
IEAIEGSR	USP11; USP11	P51784; G5E9A6	UBP11_HUM	Unmodified	21351000	21935000	17541000	0	0	0	0	0	0
IEANEALVK	ATP5F1D	P30049	ATPD_HUMA	Unmodified	17721000	19533000	15851000	671420	1058400	765030	0	0	0
IEAPWAR	MRPL17; MRPL17	Q9NRX2; E9PKV	RM17_HUMA	Unmodified	1808400	1376800	1248600	40512	35542	34390	0	0	0
IEASLRER	TCERG1; TCERG1;	O14776; A0A7P0	TCRG1_HUM	Unmodified	2967800	0	0	0	0	0	0	0	0
IECGPKYPEAPPFVR	UBE2V1; UBE2V1; U	Q13404; G3V2F7;	UB2V1_HUM	Unmodified	499700	619110	675960	32111	0	0	0	0	0

IEDGNNFGVAVQEK	PSME1; PSME1	Q06323; H0YLU2	PSME1	HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
IEDGVPQHLVLVLGGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2165600	1925100	1863300	0	0	0	6082	0	0
IEDLSQQAQLAAAEK	NACA; NACA; NAC;	E9PAV3; Q13765	NACAM	HUM	Unmodified	18510000	10051000	18345000	603430	603790	618060	21161	0	12815
IEDLSQQAQLAAAEKFK	NACA; NACA; NAC;	E9PAV3; Q13765	NACAM	HUM	Unmodified	1013100	1212200	3938100	49911	68216	46673	0	0	0
IEDRLPELEQLER	UTP6	Q9NYH9	UTP6	HUM	Unmodified	1234800	893530	793450	0	0	0	0	0	0
IEDVTPIPSDSTR	RPS14; RPS14	P62263; A0A2R8	RS14	HUM	Unmodified	13131000	11915000	16928000	994860	902620	840440	0	28369	0
IEDVTPIPSDSTRR	RPS14; RPS14	P62263; A0A2R8	RS14	HUM	Unmodified	11033000	9737300	10842000	494400	495180	561120	41483	0	0
IEDYGLKPVPGDLVLK	PUS7	Q96PZ0	PUS7	HUM	Unmodified	177670	282730	330020	0	0	0	0	0	0
IEEALGDK	ENO3	P13929	ENOB	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IEEALGDKAIFAGR	ENO3	P13929	ENOB	HUM	Unmodified	4348900	3283800	4035400	0	0	0	0	0	0
IEEAMDGSETPQLFTVLPEKR	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2	HUM	Oxidation (M)	6656100	6183000	7014200	153790	96149	66229	0	0	0
IEEEKKSMDQLKR	PIEZO2; PIEZO2; PIE	Q9H5I5; E7EVM7	PIEZ2	HUM	Oxidation (M);3 M	1861300	2249300	1854200	0	0	0	0	0	0
IEEELGDEAR	ENO2; ENO2	P09104; F5H0C8	ENOG	HUM	Unmodified	16846000	17668000	15174000	0	0	0	0	0	0
IEEELGSK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	390960000	328070000	397430000	2611700	2644100	2705100	22170	0	17421
IEEELGSKAK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	842240	834640	841090	0	0	0	0	0	0
IEEFVYEK	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1	HUM	Unmodified	1403100	1541700	1361000	51817	41229	45365	0	0	0
IEEFVYEKLDR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1	HUM	Unmodified	1018900	0	1046700	131620	0	0	0	0	0
IEEGVPQFLVLISSGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	181120	100280	155280	0	0	0	0	0	0
IEEIKDFLLTAR	RPL38; RPL38; RPL:	P63173; J3KT73;	RL38	HUM	Unmodified	1729200	2017500	0	0	0	0	0	0	0
IEELQQR	GRIPAP1; E2F4; GRI	Q4V328; Q16254;	GRAP1	HUM	Unmodified	0	0	899210	0	0	0	0	0	0
IEENSLKEEESIEGEK	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM	Deamidation (N)	537260	1015200	440420	0	0	0	0	0	0
IEEREGITVYSMQFGGYAK	HEBP1; HEBP1	Q9NRV9; A0A3B	HEBP1	HUM	Oxidation (M)	1075700	940360	1043000	0	0	0	0	0	0
IEEVPELPLVVEDKVEGYK	RPL4; RPL4	P36578; H3BM89	RL4	HUM	Unmodified	2113000	1779200	1567800	0	0	0	0	0	0
IEEYEPVHSLEELQR	CEMIP2; CEMIP2; C	Q8UHN6; H3BLY	CEIP2	HUM	Unmodified	0	0	1730700	0	0	0	0	0	0
IEFAVAEGAK	PKN2; PKN2; PKN2	Q16513; B1AL79;	PKN2	HUM	Unmodified	310380	382750	319270	0	0	0	0	0	0
IEFSLPDLEGR	PSMC2; PSMC2	P35998; C9JX88	PRS7	HUM	Unmodified	858130	964770	409040	0	0	0	10213	0	0
IEGDETSTEAATR	POLR2H; POLR2H	P52434; C9JLU1	RPAB3	HUM	Unmodified	1515100	1670000	977500	0	0	57444	0	0	0
IEGDMIVCAAYAHELPK	RPL5; RPL5; RPL5;	P46777; Q5T7N0;	RL5	HUMAN	Oxidation (M)	1481200	0	1195200	0	26847	20523	0	0	0
IEGDPQGVQQAK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Unmodified	1707200	1898700	1812000	202550	165820	0	0	0	0
IEGDPQGVQQAKR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Unmodified	0	2087300	0	75891	0	0	0	0	0
IEGEMQVPDVDIR	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	269550	0	324960	0	0	0
IEGEMQVPDVDIRGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	0	204540	265480	0	41263	52755
IEGEPEFR	POSTN; POSTN	Q15063; B1ALD9	POSTN	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IEGLAPKLDPEEMKR	TOMM5; TOMM5	Q8N4H5; F8W8Z5	TOM5	HUM	Oxidation (M)	2394000	3242900	2848800	0	0	0	0	0	0
IEGLAPKLDPEEMKRK	TOMM5; TOMM5	Q8N4H5; F8W8Z5	TOM5	HUM	Oxidation (M)	599310	1086400	2097900	0	0	0	0	0	0
IEGSGDQVDTLELSGGAR	DNM2; DNM2	P50570; K7EMQ3	DYN2	HUM	Unmodified	784850	1226000	1336600	71586	19880	30507	0	0	0
IEGVYAR	RPL35A; RPL35A; R	P18077; F8WB72;	RL35A	HUM	Unmodified	3589100	2659300	2737600	0	0	0	0	0	0
IEIEQNYAK	FNBP1L	Q5T0N5	FBP1L	HUM	Unmodified	0	663980	724880	0	0	0	0	0	0
IEIESFYEGEDFSETLTR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	7995000	1083000	2191700	35163	0	30441	0	24009	0
IEINFPAEYPFKPPK	UBE2L3	P68036	UB2L3	HUM	Unmodified	3861600	2769000	2828700	0	0	0	0	0	0
IEINRNEKKPMK	MKI67	P46013	KI67	HUMAN	Oxidation (M);2 M	571120	752690	0	0	0	0	0	0	0
IEIPLPFGGK	APOB	P04114	APOB	HUM	Unmodified	366250	479940	494830	8647.4	0	0	0	0	0
IEIPVTPTGQSVPSSPSIPGTPTLK	PCIF1	Q9H4Z3	CAPAM	HUM	Unmodified	2253200	2805700	2766100	0	0	0	0	0	0
IEISSPCCPR	KPRP	Q5T749	KPRP	HUM	Unmodified	0	368910	302150	0	575610	0	0	0	0
IEIVVVGTGDRTER	NDUFAF3	Q9BU61	NDUF3	HUM	Unmodified	776950	0	1003300	0	0	0	0	0	0
IEKKYDEELEER	TAGLN; TAGLN	Q01995; E9PJ32	TAGL	HUM	Unmodified	0	0	0	176710	251420	168050	0	0	0
IEKLEEYITTSK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	467950	780880	720750	0	0	0	0	0	0
IEKVDLPLIDSLIR	SAAL1	Q96ER3	SAAL1	HUM	Unmodified	124450	68811	153240	0	0	0	0	0	0
IELLGSYDPQK	ACP1	P24666	PPAC	HUM	Unmodified	3138800	2719800	3321000	145050	128780	209430	0	0	0
IELPELFDR	YARS2; YARS2	Q9Y2Z4; H0YHS6	SYYM	HUM	Unmodified	1778100	1133200	2442100	0	0	0	0	0	0
IELQRNPPPNADPNMK	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M)	418540	291760	290890	0	0	0	0	0	0
IELQRNPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M);Deam	5675700	1102400	3937600	57495	0	0	0	0	0
IELQRNPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M);2 De	2398900	1621600	968200	0	0	0	0	0	0
IELQRNPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M)	1369000	1690600	1771000	0	50656	68687	0	0	0
IENHEGVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	1440500	1208200	1635600	0	32897	0	0	0	0
IENHEGVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Deamidation (N)	0	1674800	2123900	0	0	0	0	0	0
IEPADAHVLQK	NAA50; NAA50; NA	Q9GZZ1; A0A087	NAA50	HUM	Unmodified	2041900	945110	1142400	0	53967	0	0	0	0
IEPEPFENCLLRPGSPAR	GSS; GSS; GSS	P48637; A0A2R8	GSHB	HUM	Unmodified	1003600	792250	959390	21162	0	0	0	0	0
IEPGVSVSLVNPQPSNGHFSTK	LARS1; LARS1; LAR	Q9P2J5; A0A6BP	SYLC	HUM	Deamidation (N)	3515800	3584000	3065100	135700	94785	19244	0	0	0
IEPPGLFR	TOP1; TOP1MT; TOI	P11387; Q969P6;	TOP1	HUM	Unmodified	5116300	4757100	5398800	80773	85134	79857	0	0	0
IEPSTVVPAQTPWDKPR	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP	HUM	Unmodified	0	2430000	0	0	0	0	0	0	0
IEPSVNFLK	LMAN2; LMAN2	Q12907; D6RBV2	LMAN2	HUM	Unmodified	7437300	7698800	5961400	266530	234710	242410	11421	0	0
IEQEQKFSIIR	ATP2B4	P23634	AT2B4	HUM	Unmodified	0	1436800	0	60963	80176	78946	0	0	0
IEQMLSLPAEVSSDNLESAER	LONRF3	Q496Y0	LONF3	HUM	Oxidation (M);Metl	1751200	0	0	0	0	0	0	0	0
IEQVDKEDEITEK	NOP58	Q9Y2X3	NOP58	HUM	Unmodified	490560	762230	518430	31480	0	0	0	0	0
IEQYATR	UTRN; UTRN; UTRN	P46939; H0Y337;	UTRN	HUM	Unmodified	1720000	1030300	0	88731	45944	0	0	0	0
IERPGEGSPMVDNPMR	UHRF1; UHRF1; UHI	Q96T88; A0A087	UHRF1	HUM	2 Oxidation (M)	542620	502630	418880	0	0	0	0	0	0
IESEKGKDAFPVAGQK	RAD23B; RAD23B; I	P54727; Q5W0S4	RD23B	HUM	Unmodified	2196600	1921400	2174500	0	0	0	0	0	0
IESILMSLPLTAR	CPOX; N/A	P36551; H0YA22	HEM6	HUM	Oxidation (M)	916930	795530	746140	0	0	0	0	0	0
IESIQLMMDSETGR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39	HUM	2 Oxidation (M)	2379900	1822700	2107600	86020	0	0	0	0	0
IESLSSQLSNLQK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1	HUM	Unmodified	4055400	3195300	2612300	87952	0	0	0	0	0
IESLSSQLSNLQKESR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1	HUM	Unmodified	1297300	924940	643070	21293	17194	0	0	0	0
IESPEEISLLPK	MTHFS; ST20-MTHF	P49914; A0A0U1	MTHFS	HUM	Unmodified	785750	723660	852580	45385	75244	43501	0	0	0
IETALTSLHQR	NPTX1	Q15818	NPTX1	HUM	Unmodified	508490	570660	516580	0	0	0	0	0	0
IETIEVMEDR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3	HUM	Oxidation (M)	31664000	35425000	28289000	358570	363770	455260	0	0	0
IETIEVMEDRQSGK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3	HUM	Oxidation (M)	5266800	3267700	3628500	51846	84699	0	0	0	14562
IETLDPALIRPGR	PSMC1	P62191	PRS4	HUM	Unmodified	2276300	2999100	2178600	0	0	0	0	0	0
IETMLGDVAVAVHPK	VARS1; VARS1	P26640; A0A140	SYVC	HUM	Oxidation (M)	458780	552930	604390	0	0	0	0	0	0
IETQDIQALR	ME2; ME2; ME2; MI	P23368; A0A1W2	MAOM	HUM	Unmodified	643030	995900	1261800	0	0	0	0	0	0
IEVEKPFAIAK	PPIB; PPIB; PPIB	P23284; A0A7P0	PPIB	HUM	Unmodified	814550	892150	1220700	30537	0	0	0	0	0
IEVIEIMTDR	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Oxidation (M)	23027000	18245000	21790000	126870	0	98756	0	44873	0
IEVIEIMTDRGSGK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Oxidation (M)	2947300	2464400	2535400	0	0	96407	0	0	0
IEVIKPGDLGVDLTSK	ETFB; ETFB	P38117; M0QY67	ETFB	HUM	Unmodified	5712500	7120400	5613200	50618	0	0	21841	0	0
IEVLEEELR	DSP	P15924	DESP	HUM	Unmodified	6213100	6916900	7851600	203640	183270	189700	0	0	0
IEVSQLLK	CD47; CD47	Q08722; A0A2R8	CD47	HUM	Unmodified	0	0	0	131700	140550	161430	0	0	7362.7
IEWLESHQDADIEDFK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	5717000	6324000	5883500	0	0	0	0	0	0
IEWLESHQDADIEDFKAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	3974000	4459600	4760600	0	0	0	0	0	0
IEYAKPTR	HNRNPL; HNRNPL;	P14866; B4DVF8;	HNRPL	HUM	Unmodified	4397200	4426400	5393000	214790	206780	116880	90950	219950	103100
IEYDAYRTDLEELNLGPR	ARFIP1	P53367	ARFP1	HUM	Unmodified	0	1091400	1428200	0	0	0	0	0	0
IEYDTFGELK	FH	P07954	FUMH	HUM	Unmodified	1883600	1436700	1615600	0	0	0	0	0	0
IEYDTFGELKVPNDKYYGAQTVR	FH	P07954	FUMH	HUM	Deamidation (N)	1212500	0	0	0	0	0	0	0	0
IEYEPFR	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	Unmodified	995650	1015300	1133000	0	55033	32098	0	0	0
IEYQFFEDR	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	745120	902960	977780	38570	43722	32575	0	0	0
IEYVTVTPEGFR	SUPT6H	Q7KZ85	SPT6H	HUM	Unmodified	0	0	0	48401	59535	59053	0	0	0
IFASIAPSIYGHEDIKR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	1185700	1052600	4289700	0	0	0	0	0	0
IFAYYDVSK	SCGN	O76038	SEGN	HUM	Unmodified	0	2051700	2060500	159150	123610	150060	0	0	0
IFCCHGGLSPDLQSMEQIR	PPP1CA; PPP1CB; P	P62136; P62140;	PP1A	HUM	Oxidation (M)	2110500	1723900	2692100	0	0	0	0	0	0
IFDEILVNAADNK	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B	HUM	Unmodified	632900	0	369340	0	0	0	0	0	0
IFDEILVNAADNKQR	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B	HUM	Unmodified	1522700	0	1647100	0	0	0	0	0	0
IFDFDDDGTLNREDLSR	CIB1	Q99828	CIB1	HUMAN	Unmodified	1314000	0	0	0	0	0	0	0	0
IFDIDEAEEGVK	EIF2S2	P20042	IF2B	HUMAN	Unmodified	0	1451900	1469800	0	24736	36907	0	0	0
IFDIDEAEEGVKDLK	EIF2S2	P20042	IF2B	HUMAN	Unmodified	1304000	4371600	0	0	0	0	0	0	0
IFDPAPPGSR	DHX8; DHX8	Q14562; F5H658	DHX8	HUM	Unmodified	0	879640	896860	0	46105	0	0	0	0
IFDSEEILAGYK	NARS1	O43776	SYNC	HUM	Unmodified	1667400	1371800	1081600	21709	0	24318	0	13502	0
IFDSEEILAGYKR	NARS1	O43776	SYNC	HUM	Unmodified	7983500	7879800	8725900	286060	259190	125690	0	26823	39624
IFDTSSGHLIQELRR	WDR45B	Q5MNZ6	WIPI3	HUM	Unmodified	841630	213980	1221400	0	0	0	0	0	0
IFDTYVGAQR	ELMOD2; ELMOD2;	Q8IZ81; D6RBS5	ELMD2	HUM	Unmodified	1489000	1014200	1373800	59539	58644	57130	0	0	0
IFDVRNGGQILIADLR	SEC13; SEC13; SEC1	P55735; A8MXL6	SEC13	HUM	Deamidation (N)	2758800	2605700	3501700	0	0	0	0	0	0
IFEGTNDILR	ACADVL; ACADVL;	P49748; J3QRJ8;	ACADV	HUM	Unmodified	0	879150	0	0	0	0	0	0	0
IFEIFGPVAHPFYVLR	NAF1	Q96HR8	NAF1	HUM	Unmodified	455690	338680	548270	0	0	0	0	0	0
IFEMGPVFTL	MT-CO2	P00403	COX2	HUM	Oxidation (M)	1894100	2017500	1925600	0	0	0	15837	14804	17187
IFEPILGEGR	POLD1; POLD1; POI	P28340; M0QXE6	DPOD1	HUM	Unmodified	1525100	0	0	0	0	0	0	0	0
IFEPPPPK	DHX15	O43143	DHX15	HUM	Unmodified	3295500	3067100	3109900	0	0	0	0	0	0
IFEPPPPKKQNGAIGR	DHX15	O43143	DHX15	HUM	Deamidation (N)	1504600	1462900	1226800	200700	0	91867	0	0	0
IFEYETQR	EMD	P50402	EMD	HUMAN	Unmodified	3728300	3714300	3098200	0	88592	84706	0	31478	0
IFFAGDTIPK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMAN	Unmodified	3574900	3198900	2272200	328970	309940	301860	0	42184	36384
IFFAGTETATK	MAOA	P21397	AOFA	HUM	Unmodified	22311000	28466000	28427000	787440	814260	645070	89120	49384	0
IFFAGTETATKWSGYMEGAVEAGER	MAOA	P21397	AOFA	HUM	Oxidation (M)	1533600	730720	1314600	0	0	0	0	0	0
IFGAPPPSESMEGPSLVR	ABT1	Q9ULW3	ABT1	HUM	Oxidation (M)	0	0	1041200	0	0	11924	0	0	0
IFGAPPPSESMEGPSLVRDS	ABT1	Q9ULW3	ABT1	HUM	Oxidation (M)	1366200	1165100	604450	64186	62504	31650	0	0	0
IFGGLDMLAEK	ANP32B	Q92688	AN32B	HUM	Oxidation (M)	3520000	2718600	4430800	0	0	0	13708	0	0
IFGGLDMLAEKLPNLTHLNLSGNK	ANP32B	Q92688	AN32B	HUM	Oxidation (M)	905740	256880	325410	0	0	0	0	0	0
IFGGVLESDAR	HAX1; HAX1	O00165; E9PIQ7	HAX1	HUM	Unmodified	1142700	1173400	1248600	65616	62920	76790	0	0	0
IFGLLMGTLQK	PNN	Q9H307	PININ	HUM	Oxidation (M)	1974100	1083900	1431700	0	0	0	0	0	0
IFGSEAAWK	ACADVL; ACADVL;	P49748; J3QRJ8;	ACADV	HUM	Unmodified	1016800	2764200	3338300	0	21299	40244	0	0	4494.6
IFGSNKNRPEDYQGGR	PDIA6	Q15084	PDIA6	HUM	Deamidation (N)	3484700	3182500	2657600	36568	51332	54946	0	0	0
IFGVTTLDIVR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	3776800	3090400	3078500	0	50626	0	56397	0	0
IFHELTQTDK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	5963100	3714800	4270400	0	0	0	0	0	0
IFHELTQTDKALFNR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	5629600	3871800	5077200	0	0	0	0	0	0
IFIGTFK	SNRPB; SNRPN; SNI	P14678; P63162;	RSMB	HUM	Unmodified	12671000	9625300	9349700	157210	198020	223660	15805	0	0
IFINLPR	TXNL1; TXNL1	O43396; K7ER96	TXNL1	HUM	Unmodified	2917400	2131100	2405600	0	64343	95190	0	0	0
IFKLNPATMNHSVK	N/A	N/A	N/A		Oxidation (M);Deam	1459600	777020	0	88506	0	170310	0	0	0

IFLEFERVESAIK	RBM17	Q96I25	SPF45_HUMA	Unmodified	616310	524750	551140	0	0	0	0	0	0
IFLLTNNNLLLADQK	MYO1B; MYO1B; M	O43795; H7C2Y7	MYO1B_HUN	Deamidation (N)	849000	712180	578450	0	0	0	0	0	0
IFLLTNNNLLLADQK	MYO1B; MYO1B; M	O43795; H7C2Y7	MYO1B_HUN	2 Deamidation (N)	549230	386160	318460	0	0	0	0	0	0
IFLQDIK	FTH1; FTH1; FTH1; I	P02794; G3V192;	FRIH_HUMA	Unmodified	5430600	5834400	4053900	2047300	2209100	2040000	62412	48604	134180
IFLQVTSR	TBCC	Q15814	TBCC_HUMA	Unmodified	938030	969700	1116800	129240	98296	98751	0	0	0
IFLVISK	RBM45	Q8IUH3	RBM45_HUM	Unmodified	0	464420	459180	10242	0	9876.2	0	0	0
IFMEKGDMVTLPAGIYHR	ADI1; ADI1	Q9BV57; A0A0G	MTND_HUM	2 Oxidation (M)	2191100	1981600	2558000	37954	0	31262	0	0	0
IFNETPINPR	COPG2	Q9UBF2	COPG2_HUM	Unmodified	714540	545490	585330	71598	88022	78073	0	0	0
IFNFYPR	DPYSL4; DPYSL4	O14531; Q5T0Q6	DPYL4_HUM	Unmodified	2275700	1285700	1662000	0	0	0	0	0	0
IFNLYPR	CRMP1; DPYS; DPY	Q14194; Q14117;	DPYL1_HUM	Unmodified	12854000	13197000	7034100	277650	802630	665110	186180	180250	183100
IFNLYPR	CRMP1; DPYS; DPY	Q14194; Q14117;	DPYL1_HUM	Deamidation (N)	3983200	3590400	2530000	54592	111570	88103	23062	27297	0
IFPGDTILETGEVIPPMK	NDUFB6; NDUFB6	O95139; A0A087	NDUB6_HUM	Oxidation (M)	581700	1517200	720190	0	0	0	0	0	0
IFPGDTILETGEVIPPMKEFPDQHH	NDUFB6; NDUFB6	O95139; A0A087	NDUB6_HUM	Oxidation (M)	3912600	3519900	0	0	0	0	51097	0	0
IFQEALR	HDHD3	Q9BSH5	HDHD3_HUM	Unmodified	7115700	5920200	6016000	509940	398850	379860	0	0	17413
IFQEPTEPK	RRM2; RRM2	P31350; A0A286	RIR2_HUMA	Unmodified	911710	783590	866180	0	0	29958	0	0	0
IFQIHTSR	PSMC1	P62191	PRS4_HUMA	Unmodified	851740	800290	4113000	0	0	0	0	0	0
IFQKGESPVDYDGGR	PDIA6	Q15084	PDIA6_HUM	Unmodified	48859000	39985000	44006000	880000	235760	567240	16293	0	13675
IFQKGESPVDYDGGR	PDIA6	Q15084	PDIA6_HUM	Methyl (KR)	5615600	5251800	4820800	45350	48375	42468	0	0	0
IFQKGESPVDYDGGRTR	PDIA6	Q15084	PDIA6_HUM	Unmodified	4675400	4041700	3822000	0	0	0	0	0	0
IFQKGESPVDYDGGRTRSDIVSR	PDIA6	Q15084	PDIA6_HUM	Unmodified	737170	0	1056300	0	0	0	0	0	0
IFQNAPTDPTQDFSTQVAK	USP5	P45974	UBP5_HUMA	Unmodified	6693000	5170700	5213500	33413	66652	77859	0	0	0
IFQVAQELSGEDMHQFHR	TSNAX; TSNAX; TS	Q99598; Q5VVQ1	TSNAX_HUM	Oxidation (M)	0	1488400	1147800	0	0	0	0	0	0
IFRDGEEAGAYDPGR	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Unmodified	108330000	81854000	102530000	2730400	2480000	3233900	264280	183710	267090
IFSFDGKDVLR	COL18A1; COL18A1	P39060; H7C457;	COIA1_HUM	Unmodified	2045100	2615900	2859700	184740	184210	150340	53278	27438	15385
IFSGSSHQDLSQK	PRPS1; PRPS1L1; PI	P60891; P21108;	PRPS1_HUM	Unmodified	1521700	1261400	1045000	0	0	0	0	0	0
IFSPNVVNLTLVDLPGMTK	DNM1L; DNM1L; DI	O00429; B4DPZ9;	DNM1L_HUN	Oxidation (M)	3690400	2410100	2037100	0	0	0	0	0	0
IFSPNVVNLTLVDLPGMTK	DNM1L; DNM1L; DI	O00429; B4DPZ9;	DNM1L_HUN	Oxidation (M);Deai	679300	451970	618710	0	0	0	0	0	0
IFSQHLQNR	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP_HUMA	Unmodified	543620	419990	583560	0	0	0	0	0	0
IFSVTNGGQER	MAOA	P21397	AOFA_HUMA	Deamidation (N)	22265000	18889000	20942000	1024600	614370	915390	0	0	47988
IFSVTNGGQERK	MAOA	P21397	AOFA_HUMA	Deamidation (N)	3021500	644990	525940	0	0	92954	0	0	0
IFTIESTR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	8693700	6871600	10599000	319240	379810	368210	0	0	0
IFTIESTRVR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	901070	903250	907100	147910	198550	138050	0	0	0
IFTNLYGR	NDUFV1; NDUFV1;	P49821; G3V0I5;	NDUV1_HUM	Unmodified	604920	1167700	1172700	0	0	0	0	0	0
IFTPLLHQIELEKPKPIPYIYGSR	G6PD	P11413	G6PD_HUMA	Unmodified	1047500	1347400	1168600	0	0	0	0	0	0
IFTSIGEDYDER	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	6197800	7841200	7262800	134970	121170	161060	0	0	0
IFTTGDVNKDGKLDFEEFMK	SLC25A24; SLC25A2	Q6NUK1; J3KN42	SCMC1_HUM	Oxidation (M)	558630	703260	609020	0	0	0	0	0	0
IFVFEPPPGVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	4212500	1892300	3400700	57141	51944	93521	0	0	0
IFVGGIKEDTEEHHLRDYFEQYGK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	1555600	1778700	2415000	0	0	0	0	0	0
IFVGGIKEDTEEYNLR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	22189000	18227000	18780000	0	0	0	0	0	0
IFVGGIKEDTEEYNLR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Deamidation (N)	1067700	789690	1391700	0	91497	0	0	0	0
IFVGGIKEDTEEYNLRDYFEK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	54881000	40240000	45131000	176220	0	49223	0	0	0
IFVGGIKEDTEEYNLRDYFEK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Deamidation (N)	9919000	2711000	3484300	0	0	0	0	0	0
IFVGGLNPEATEEK	HNRNPAB; HNRNP/	D6R9P3; D6RBZ(	D6R9P3_HU	Unmodified	31398000	26177000	23485000	84739	94909	111460	0	0	0
IFVGGLNPEATEEKIR	HNRNPAB; HNRNP/	D6R9P3; D6RBZ(	D6R9P3_HU	Methyl (KR)	2093800	2503200	3093600	0	0	0	0	0	0
IFVGGLNPEATEEKIR	HNRNPAB; HNRNP/	D6R9P3; D6RBZ(	D6R9P3_HU	Unmodified	7135700	6523800	5859900	0	16269	21933	0	0	0
IFVGGLNPEATEEKIREYFGEFGEIEAIELPMDPK	HNRNPAB; HNRNP/	D6R9P3; D6RBZ(	D6R9P3_HU	Oxidation (M)	255050	0	0	0	0	0	0	0	0
IFVGGLPYHTTDASLR	RBM24; RBM38; RB	Q9BX46; Q9H0Z5	RBM24_HUM	Unmodified	2782700	2655400	1979300	14117	0	0	0	0	0
IFVGGLSPDTPEEK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Unmodified	52585000	47511000	53192000	1688700	1957700	1944500	45325	68758	43722
IFVGGLSPDTPEEKIR	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Unmodified	12435000	8558300	13292000	563830	589760	540350	25001	27153	23157
IFVGGLSPDTPEEKIR	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD_HUM	Methyl (KR)	6927300	9791000	8164200	156440	124820	130240	0	0	0
IFVGSSQVPIVFENTDLHSYVVMNHGR	NID1	P14543	NID1_HUMA	Oxidation (M)	0	1293000	0	0	0	0	0	0	0
IFVMATHGLLSSDAPR	PRPSAP2; PRPSAP2	O60256; I3L0S1;	KPRB_HUMA	Oxidation (M)	1332000	3404200	1947100	0	0	11297	0	0	0
IFVMIPK	RBM45	Q8IUH3	RBM45_HUM	Oxidation (M)	670420	567510	434040	18466	20179	23236	0	0	0
IFVNDDRHVMAK	ILF3; ILF3; ILF3; ILF	Q12906; K7ENK6	ILF3_HUMAN	Oxidation (M)	2124300	1949500	1453200	0	219400	374170	0	0	0
IFVNDDRHVMAK	ILF3; ILF3; ILF3; ILF	Q12906; K7ENK6	ILF3_HUMAN	Oxidation (M);Deai	6508700	5829700	5530400	90040	271850	0	0	0	0
IFVNSNTDVAPFLR	DDX27; DDX27	Q96GQ7; B7Z6D5	DDX27_HUM	2 Deamidation (N)	0	444010	299980	0	0	0	0	0	0
IFYPEIEEVQALDDTER	DUT; DUT; DUT; DU	P33316; H0YNW5	DUT_HUMAN	Unmodified	2740700	0	4295100	0	0	14451	0	0	0
IFYPEIEEVQALDDTERGSGGFGSTGKN	DUT; DUT; DUT	P33316; H0YNW5	DUT_HUMAN	Unmodified	15403000	10752000	11086000	0	0	0	0	0	0
IFYPETTDIYDRK	IQGAP1; IQGAP1	P46940; A0A0J9Y	IQGA1_HUM	Unmodified	4242300	4113000	5578800	277760	135160	184270	25544	18757	0
IGAADYQPTEQDLR	GNAO1; GNAO1; GN	P09471; H3BTM2	GNAO_HUM	Unmodified	2595100	2273000	7307300	0	0	0	0	0	0
IGADEEIDDFKGR	PPIL4	Q8WUA2	PPIL4_HUMA	Unmodified	1910300	1676000	1776500	120010	147310	157520	0	0	0
IGADFLAR	GOT1	P17174	AATC_HUMA	Unmodified	13481000	12866000	11711000	232060	166820	147590	19046	32760	0
IGAEVYHNLK	ENO1; ENO1; ENO1	P06733; K7EM90	ENOA_HUM	Unmodified	8589400	12326000	9776900	0	0	0	0	0	0
IGAEVYHNLKNVIK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	3098000	3141000	2821000	0	0	0	0	0	0
IGAEVYHNLKNVIK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Methyl (KR)	644110	628660	613160	0	0	0	0	0	0
IGAEVYHNLKNVIK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Deamidation (N)	877770	867260	611500	0	0	0	0	0	0
IGAEVYHNLKNVIKEK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	7569800	6463600	7025500	0	0	0	0	0	0
IGAEVYHNLKNVIKEK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Methyl (KR)	1082900	1389900	0	0	0	0	0	0	0
IGAEVYHNLKNVIKEK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Deamidation (N)	2263900	1781800	2221500	0	0	0	0	0	0
IGAFGYMECSAK	RHOA; RHOA	P61586; A0A7I2V	RHOA_HUM	Oxidation (M)	1462900	1210900	1083200	0	0	178190	0	0	0
IGALEGYRGQR	NARS1; NARS1; NA	O43776; K7EIU7;	SYNC_HUMA	Unmodified	0	0	0	0	85754	60190	0	0	0
IGALYIR	SCLY; SCLY; SCLY;	Q96I15; H7C277;	SCLY_HUMA	Unmodified	2842400	2939900	2856400	145820	130570	139770	12093	0	0
IGASTLLSDIER	DERA; DERA; DERA	Q9Y315; G3V158	DEOC_HUM	Unmodified	896640	724670	618330	0	0	0	0	0	0
IGCIITAR	AIMP1; AIMP1	Q12904; A0A5F9	AIMP1_HUM	Unmodified	946490	941520	1158700	94730	105370	110500	0	0	0
IGDEDVGR	PPIB; PPIB; PPIB; PI	P23284; A0A7P0	PPIB_HUMA	Unmodified	1049100	1046300	2002500	0	0	0	0	0	0
IGDEDVGRVIFGLFGK	PPIB; PPIB; PPIB; PI	P23284; A0A7P0	PPIB_HUMA	Unmodified	1506600	569730	1283800	0	0	0	0	0	0
IGDEDVGRVIFGLFGKTVPK	PPIB; PPIB; PPIB; PI	P23284; A0A7P0	PPIB_HUMA	Methyl (KR)	490390	246760	550000	0	0	0	0	0	0
IGDEFNAYYAR	BCL2L11	O43521	B2L11_HUM	Unmodified	822440	734660	1187200	0	0	0	0	0	0
IGDELDSNMELQR	BAX; BAX	Q07812; K4JQN1	BAX_HUMAN	Oxidation (M);Deai	1126200	1239700	1234300	0	0	0	0	0	0
IGDELDSNMELQR	BAX; BAX	Q07812; K4JQN1	BAX_HUMAN	Oxidation (M)	820530	6703400	5264400	224780	167920	230040	0	0	0
IGDFIDVSEGPLIPR	MRPL39; MRPL39	Q9NYK5; C9JG87	RM39_HUMA	Unmodified	5239300	4625500	4706200	0	0	0	0	0	0
IGDLGLATLK	WNK2; WNK4; WNK	Q9Y3S1; Q96J92;	WNK2_HUM	Unmodified	960970	1041200	1099200	33701	33342	27461	0	0	0
IGDLHPQIVNLLK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	2328300	2629200	2333500	12024	0	0	0	0	0
IGDNLDILTLLK	UACA; UACA; UAC	Q9BZF9; H0YN48	UACA_HUM	Unmodified	225800	142360	199280	0	0	0	0	0	0
IGDPLLEDTR	ALDH9A1	P49189	AL9A1_HUM	Unmodified	0	1226400	628140	0	0	0	0	0	0
IGDQEFDHLPALLEFYK	CRKL	P46109	CRKL_HUMA	Unmodified	182410	85987	251490	0	0	0	0	0	0
IGDQEFDSLPALLEFYK	CRK; CRK	P46108; I3L297	CRK_HUMA	Unmodified	200370	104780	153250	0	0	0	0	0	0
IGDTSVSYK	LMNB1	P20700	LMNB1_HUM	Unmodified	1958500	0	92377	0	0	0	0	0	0
IGDTSVSYKYTSR	LMNB1	P20700	LMNB1_HUM	Unmodified	756830	677640	805430	121010	100080	122800	10749	0	0
IGDTWSK	FN1	P02751	FINC_HUMA	Unmodified	3005900	3220500	2677900	344060	0	552510	0	15782	0
IGEEEIQKPEEK	SF3A1	Q15459	SF3A1_HUM	Unmodified	5901600	6904300	7037700	278030	0	342940	0	0	0
IGEEFLTDLSQLKK	PYGB	P11216	PYGB_HUMA	Unmodified	1027400	885050	975150	0	0	0	0	0	0
IGEEQSAEDAEDGPPELLFIHGGHTAK	RBBP7; RBBP7; RBI	Q16576; Q5JNZ6;	RBBP7_HUM	Unmodified	16458000	20305000	16296000	138190	117090	70471	0	0	0
IGEEQSPEDAEDGPPELLFIHGGHTAK	RBBP4; RBBP4; RBI	Q09028; H0YDK2	RBBP4_HUM	Unmodified	20649000	20762000	22288000	0	52235	40707	15967	0	0
IGEGTYGTVFK	CDK5	Q00535	CDK5_HUMA	Unmodified	1379100	1906800	1491500	0	0	0	0	0	0
IGEGTYGVVYK	CDK1; CDK3; CDK2	P06493; Q00526;	CDK1_HUMA	Unmodified	4916800	4499400	5239900	0	0	21159	0	0	0
IGEGTYGVVYKGR	CDK1; CDK1; CDK1	P06493; A0A024	CDK1_HUMA	Unmodified	917310	625780	745370	52622	0	0	0	0	0
IGELLDQASVTR	ADPRS	Q9NX46	ADPRS_HUM	Unmodified	1024700	1210300	698930	0	0	0	0	0	0
IGEVDVEQHTLAK	CCNB1; CCNB1; CC	P14635; H0YA62;	CCNB1_HUM	Unmodified	705450	482120	455510	0	0	0	0	0	0
IGEWELIQESGVPLKPLFGPGYTGIR	USP5	P45974	UBP5_HUMA	Unmodified	369580	181850	556600	0	0	0	0	0	0
IGFDVVTLSGTR	NTPCR; NTPCR	Q9BSD7; Q5TDF(	NTPCR_HUM	Unmodified	7628500	6701900	6402000	0	61713	47095	0	16877	12138
IGFFNQQYAEQLRMEETPTEYLQR	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1_HUM	Oxidation (M)	1708300	1335600	2167600	0	0	0	0	0	0
IGFGSFVEKTVMPYISTTPAK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUMA	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
IGFPWSEIR	RDX; EZR; MSN; RI	P35241; P15311;	RADI_HUMA	Unmodified	27456000	27195000	25084000	187240	151520	167140	50217	30766	35695
IGFVGFPSVGK	DRG1	Q9Y295	DRG1_HUMA	Unmodified	937910	1087300	3480700	41189	0	29228	0	12320	0
IGGAQNRSYSK	MIF	P14174	MIF_HUMAN	Deamidation (N)	4121500	705080	2010200	0	0	0	0	0	0
IGGDAATTVNNSTPDFGFGGQK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	2 Deamidation (N)	0	415390	508500	34040	0	0	0	0	0
IGGDAATTVNNSTPDFGFGGQKR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Deamidation (N)	4640300	4411300	4690400	226180	227640	199420	0	0	0
IGGDAATTVNNSTPDFGFGGQKR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	2 Deamidation (N)	2086900	4689500	4855100	84596	60527	0	0	0	0
IGGDAGTSLNSNDYGYGGQK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1_HUM	2 Deamidation (N)	651090	477350	552410	0	0	0	0	0	0
IGGDAGTSLNSNDYGYGGQKRPLEDGDQPDAK	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	2 Deamidation (N)	2197800	2638900	3223800	74520	103180	0	0	0	0
IGGDLTAAVTK	YTHDF3; YTHDF3;	Q7Z739; A0A087	YTHD3_HUM	Unmodified	3607300	4374800	3011500	0	0	0	0	0	0
IGGEEGGRPPEADDPVPGGQAR	SMPD3; SMPD3	Q9NY59; H3BS51	NSMA2_HUM	Unmodified	0	0	963910	34986	35146	0	0	0	0
IGGGGVQLGK	DSC2; DSC2	Q02487; A0A3B3	DSC2_HUMA	Unmodified	0	5060100	5305600	0	0	0	0	0	0
IGGGIDVPVPR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	28875000	23873000	28976000	3961800	4567400	3606300	485860	504160	0
IGGGIGFGGLEAMNSMGGFGGVGR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2_HUM	2 Oxidation (M)	1522100	1470400	1743900	17094	24392	0	0	0	0
IGGGIGFGGLEAMNSMGGFGGVGR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2_HUM	2 Oxidation (M);De	0	4412000	3320100	69921	64879	16450	69109	0	43820
IGGIFAFK	SCP2; SCP2	P22307; H0YF61	SCP2_HUMA	Unmodified	1760600	1890400	2243200	56441	54330	42618	11671	17255	8166.8
IGGIGTVPVGR	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Unmodified	355790000	275070000	351320000	8334400	8637700	7511500	339670	296350	363570
IGGIGTVPVGRVETGVLKPGMVVTFAPVNVTTEVK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Oxidation (M)	9353500	1757400	9161000	0	0	0	0	0	0
IGGISGIFK	DBR1	Q9UK59	DBR1_HUMA	Unmodified	1130100	873500	831060	0	0	0	0	0	0
IGGNEGIDVPIPR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	25138000	28096000	31495000	1288000	1164300	1515400	86623	77918	99165
IGGNEGIDVPIPR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Deamidation (N)	33689000	34669000	27908000	1254700	1213200	1451500	50931	14745	65986
IGGVQQDTILAEGLHFR	PHB2; PHB2; PHB2;	Q99623; F5H2D2;	PHB2_HUMA	Unmodified	7467600	5393000	5535400	18433	14748	17405	31269	0	0
IGHNNTGMNPGWHCSHVDIRRLLPDKD	LOXHD1; LOXHD1;	Q8IVV2; J3QKX9	LOXH1_HUM	Oxidation (M);3 M	3695400	0	2994400	1003700	843720	860950	589410	393360	0
IGHYILGDTLGVGTFGK	PRKAA1; PRKAA1	Q13131; Q96E92	AAPK1_HUM	Unmodified	0	402140	450940	0	0	0	0	0	0
IGIEIIKR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	1391900	1407900	1647900	0	0	0	0	0	0
IGIEIIKR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Methyl (KR)	1622100	1339900	1275300	0	0	0	0	0	0
IGIFGQDEDVTSK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	9325400	9108700	7536100	301860	322210	273390	0	30321	40420
IGIIDGEYVVNPTR	PNPT1	Q8TCS8	PNPT1_HUM	Unmodified	982150	898870	883550	0	0	0	0	0	0
IGIIDGEYVVNPTRK	PNPT1	Q8TCS8	PNPT1_HUM	Unmodified	3812500	1476700	1071700	0	26946	25532	42377	23645	19235
IGIIGGTGLDDPEILEGR	MTAP; MTAP; N/A;	Q13126; F8WES2	MTAP_HUM	Unmodified	10705000	8658700	10013000	0	0	0	0	0	0

IGIIGGTGLDDPEILEGRTEK	MTAP; MTAP; N/A;	Q13126; F8WES2	MTAP	HUM/	Unmodified	13392000	8251900	12557000	26621	0	0	0	0	0
IGIKESLWPFLIDKR	MAT2B	Q9NZL9	MAT2B	HUM	Unmodified	904730	1291100	1179200	0	0	0	0	0	0
IGILHENFQTLK	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1	HUM	Deamidation (N)	322710	328060	249600	0	0	0	0	0	0
IGILHENFQTLK	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1	HUM	Unmodified	2540300	1788800	2095400	0	0	0	0	0	0
IGIPEFK	CPM; CPM; CPM	P14384; F8W111;	CBPM	HUM/	Unmodified	1292900	341070	1291000	0	0	0	0	0	0
IGITNHDEYSLVR	TLN1	Q9Y490	TLN1	HUM/	Unmodified	1533300	0	818020	48189	63511	91642	40893	0	0
IGITNHDEYSLVR	TLN1	Q9Y490	TLN1	HUM/	Deamidation (N)	4255000	4526200	4641300	82289	155910	157970	19222	26127	24238
IGIVGLPNVGK	OLA1; OLA1; OLA1	Q9NTK5; J3KQ32	OLA1	HUM/	Unmodified	8005400	9905800	6952800	57009	61390	64408	0	0	0
IGKEMQNA	CAPZA2; CAPZA1	P47755; P52907	CAZA2	HUM	Oxidation (M)	0	0	0	0	0	0	31028	0	0
IGKFENGVAEGMVDPSLNPISAFR	MGAT4A	Q9UM21	MGT4A	HUM	Oxidation (M);Deai	2997500	596860	1695600	0	0	0	0	0	0
IGKLNLVDLAGSENIGR	KIF11; KIF11; KIF11	P52732; A0A7Z\	KIF11	HUM/	Unmodified	509520	276370	218770	0	0	0	0	0	0
IGKPADPFK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2	HUM/	Unmodified	7096800	7212600	6076400	463560	496330	437820	0	0	0
IGKPADPFKATAVVDGAFKEVK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2	HUM/	Unmodified	11926000	11848000	12051000	66326	54634	40734	32783	0	32099
IGKVTSEELHYFVQNHFTSAR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2	HUM/	Unmodified	668650	543170	405880	0	0	0	0	0	0
IGLADYALESGGASVISTR	SUN2; SUN2	Q9UH99; B0QY6(	SUN2	HUM/	Unmodified	1752200	1145700	1087900	0	0	0	0	0	0
IGLAQYSGDPR	COL14A1; COL14A1	Q05707; J3QT83;	COEA1	HUM/	Unmodified	0	446280	0	96073	144420	105140	0	41833	42894
IGLENFLLR	SNX4; SNX4	O95219; F8W9T3	SNX4	HUM/	Unmodified	1439100	0	0	0	0	0	0	0	0
IGLETSLR	RUVBL2	Q9Y230	RUVB2	HUM/	Unmodified	4163600	3820100	4787300	39991	0	0	0	0	0
IGLETVGVK	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1	HUM/	Unmodified	1493500	1494500	1546800	18124	0	19750	0	0	0
IGLFNSSADRVK	GYS1	P13807	GYS1	HUM/	Deamidation (N)	274060	283720	227900	0	0	0	0	0	0
IGLIHGHQVIPWGDMASLALLQR	VPS29; VPS29	Q9UBQ0; F8VXU	VPS29	HUM/	Oxidation (M)	1776800	0	0	0	0	0	0	0	0
IGLINDMVR	EIF3A	Q14152	EIF3A	HUM/	Oxidation (M)	1117100	1619200	964560	72814	36092	99040	0	0	0
IGMGATLDIQR	UBAC2; UBAC2	Q8NBM4; X6R5E	UBAC2	HUM	Oxidation (M)	0	1244300	0	0	313830	0	0	0	70507
IGMSVNAIR	TCEA1; TCEA1; TCI	P23193; E5RJ93;	TCEA1	HUM	Oxidation (M)	4986800	3848600	5935800	44244	34456	46303	0	0	0
IGMSVNAIR	TCEA1; TCEA1; TCI	P23193; E5RJ93;	TCEA1	HUM	Oxidation (M);Deai	4867400	4908200	8570600	58742	40555	0	0	0	0
IGNPVPYNEGLGQPQVAPPAPAASPAASSR	RPA1; RPA1	P27694; I3L2M5	RFA1	HUM/	Unmodified	3286100	1314500	0	0	0	0	0	0	0
IGNSYFKEEK	STIP1	P31948	STIP1	HUM/	Deamidation (N)	5897900	5295100	6077100	0	0	0	0	0	0
IGNSYFKEEK	STIP1	P31948	STIP1	HUM/	Unmodified	466510	393330	963100	0	0	0	0	0	0
IGNTGGMLDNILASK	ACLY	P53396	ACLY	HUM/	Oxidation (M)	2486600	1771300	1429200	52154	0	41742	0	0	0
IGNTGGMLDNILASK	ACLY	P53396	ACLY	HUM/	Oxidation (M);Deai	1250400	1191100	852060	30750	27047	15549	0	0	0
IGNVEISQVTIVGIIR	RPA2; RPA2	P15927; Q5TEJ7	RFA2	HUM/	Unmodified	526400	0	256720	0	0	0	0	0	0
IGPAPAFTGDTIALNIIK	FBLN2	P98095	FBLN2	HUM	Unmodified	569620	716210	845870	0	0	0	0	0	0
IGPILDNSTLQSEVKPILEK	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA	HUM/	Unmodified	5781200	2727800	5642000	0	0	0	0	0	0
IGPILDNSTLQSEVKPILEK	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA	HUM/	Deamidation (N)	8028200	4552900	9322600	0	0	0	0	0	0
IGPITPLEFYR	BLMH; BLMH; BLM	Q13867; K7ESE8;	BLMH	HUM/	Unmodified	3501300	3489000	4147000	24658	23700	25272	0	0	0
IGPKKPLPDHVSIVEPKDEILPTTPISEQK	RPS3; RPS3; RPS3; I	P23396; E9PSF4;	RS3	HUMAN	Unmodified	1195400	1364000	0	0	0	0	0	0	0
IGPLAFLTASPEQVR	FBH1; FBH1	Q8NFZ0; F6UZG9	FBH1	HUM/	Unmodified	483080	609750	569010	0	0	0	0	0	0
IGPLGLSPK	RPL12	P30050	RL12	HUM/	Unmodified	37024000	25128000	26611000	1640100	0	1506600	188710	0	155850
IGPQQSISTSVGPSASQR	RAB2B	Q8WUD1	RAB2B	HUM	Unmodified	1170300	1166800	1118000	72142	49682	0	0	0	0
IGPSILNSDLANLGAECLR	RPE; RPE; RPE; RPE	Q96AT9; F8WBT	RPE	HUM	Deamidation (N)	1767600	1000400	326760	0	0	0	0	0	0
IGPSILNSDLANLGAECLR	RPE; RPE; RPE; RPE	Q96AT9; F8WBT	RPE	HUM	Unmodified	611090	442100	691020	0	0	0	0	0	0
IGPYQPNVPVGIDYVIPK	MATR3; MATR3; M	P43243; B3KM87	MATR3	HUM/	Unmodified	51566000	43416000	44904000	96024	0	0	0	10060	0
IGQETDKTTTR	NCKAP1	Q9Y2A7	NCKP1	HUM/	Unmodified	519060	305420	384660	17460	0	33220	0	0	0
IGQFVFAR	AASDHPPT	Q9NRN7	ADPPT	HUM/	Unmodified	2072200	1939600	2190200	52660	40768	32634	0	0	0
IGQGASGTVFTATDVALGQEVAIK	PAK2	Q13177	PAK2	HUM/	Unmodified	1536900	0	926720	0	0	0	0	0	0
IGQGHCVSGMGMGR	FBN1	P35555	FBN1	HUM/	2 Oxidation (M)	880870	0	0	1351200	0	1080900	2015800	1051300	1373000
IGQGYLIK	RPL3; RPL3; RPL3	P39023; B5MCW	RL3	HUM/	Unmodified	757990	919970	778530	0	0	0	0	0	0
IGQLEEQLEQEAKER	MYH10	P35580	MYH10	HUM/	Unmodified	1322400	1546200	1277200	0	0	0	0	0	0
IGQPTVSYFLK	MRPL11	Q9Y3B7	RM11	HUM/	Unmodified	1255900	1403900	1663200	0	0	15006	0	0	0
IGQQNEVR	SMARCA4; SMARC	P51532; P51531;	SMCA4	HUM/	Unmodified	0	0	0	0	0	0	0	0	0
IGQQPQQPGAPPQQDYTK	KHSRP; KHSRP; KH	Q92945; M0QYG	FUBP2	HUM/	Unmodified	3001600	3437900	4578900	140030	0	105230	0	0	0
IGRIEDVTPIPSDSTR	RPS14; RPS14	P62263; A0A2R8	RS14	HUM/	Unmodified	20583000	18217000	18802000	1156800	974590	1008900	90538	0	140480
IGRIEDVTPIPSDSTRR	RPS14; RPS14	P62263; A0A2R8	RS14	HUM/	Unmodified	23975000	26698000	20729000	1425300	1537200	1534400	103060	181590	188340
IGRPVHEFMLKPGDLLYFPR	RIOX2; RIOX2	Q8IUF8; H0Y9L8	RIOX2	HUM/	Oxidation (M)	972050	0	570900	0	0	0	0	0	0
IGSEGQGFLIAVR	ACAD8	Q9UKU7	ACAD8	HUM	Unmodified	692130	822270	821410	0	0	0	0	0	0
IGSFGPQEDLLFLR	ACACA; ACACA	Q13085; Q59FY4	ACACA	HUM	Unmodified	330290	275080	237270	0	0	0	0	0	0
IGSFLSNR	CEP43; CEP43	O95684; A0A087	CEP43	HUM	Unmodified	636700	1064400	1032000	0	0	0	0	0	0
IGSGVERMGAGMGFGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	1305200	1086600	910480	2439600	2484100	3022800	0	0	0
IGSGYDNVDIK	CTBP2	P56545	CTBP2	HUM	Unmodified	1119800	684130	592290	0	0	0	0	0	0
IGSKGNQIFVR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A	MYEF2	HUM	Deamidation (N)	1761200	1097400	1915100	134330	109490	107360	0	0	0
IGSLASGNVR	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM/	Unmodified	2386600	6087100	5125600	205450	199370	209890	19353	0	0
IGSNHADEIK	N/A	N/A	N/A		Unmodified	790080	1232500	588820	844940	867580	1577500	560120	317260	332860
IGSTDNIKYQPK	MAP2; MAP2	P11137; A0A669	MTAP2	HUM/	Unmodified	1110500	1200400	1341500	0	0	0	0	0	0
IGSTIDDTISK	CLINT1	Q14677	EPN4	HUM	Unmodified	546360	581280	591320	0	0	0	0	0	0
IGSTIFGER	PLPBP	O94903	PLPHP	HUM	Unmodified	1105800	2914600	1522500	0	0	0	0	0	0
IGSTIFGERDYSK	PLPBP	O94903	PLPHP	HUM	Unmodified	1257000	1378600	1234500	26808	34544	53607	0	0	0
IGTAEPDYGALYEGR	PLCG1	P19174	PLCG1	HUM	Unmodified	910950	926880	980710	0	0	0	0	0	0
IGTAEVEKPAGLLFQQPDLDSALQIAR	TACC2; TACC2; TA	O95359; Q4VXL8	TACC2	HUM	Unmodified	1374700	1182000	1052200	0	0	0	0	0	0
IGTDIQDNK	FDPS; FDPS	P14324; A0A087	FPPS	HUM/	Unmodified	816610	0	0	0	0	0	0	0	0
IGTIYEGASNIQLNTIAK	ACADSB	P45954	ACDSB	HUM	Unmodified	3163600	4603600	1258100	111300	65359	0	24226	0	0
IGTIYEGASNIQLNTIAK	ACADSB	P45954	ACDSB	HUM	Deamidation (N)	1083500	807930	695970	24099	0	0	0	0	0
IGTLEKEHNVFQNK	KTN1	Q86UP2	KTN1	HUM/	Unmodified	2002700	2192800	3201400	141480	114750	93652	0	0	0
IGVDLIMK	EIF3F; EIF3F	O00303; H0YDT6	EIF3F	HUM/	Oxidation (M)	2637000	2459700	1271100	0	22784	37774	0	0	0
IGVITNRER	RPS4X	P62701	RS4X	HUM/	Deamidation (N)	2229800	3107500	2087100	198160	169640	163800	0	0	0
IGVLITDGKSQDDVEAPSKK	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	0	254930	282750	276650	22650	0	0
IGVMSLIR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM/	Oxidation (M)	14851000	4485100	8799100	68456	84875	99487	0	0	0
IGVPSATEIIK	DDX21	Q9NR30	DDX21	HUM	Unmodified	4651300	4828900	5584800	0	50656	64341	0	0	0
IGYPKPALLHSTFFPALQGAQTK	WARS1; WARS1	P23381; H0YJP3	SYWC	HUM/	Unmodified	20983000	14356000	12931000	0	0	0	21041	0	0
IGYSWYKGER	CEACAM6	P40199	CEAM6	HUM	Unmodified	947500	1360400	1515900	0	0	0	0	0	0
IHAYSQLLESYR	PSMD6	Q15008	PSMD6	HUM	Unmodified	639530	931480	243570	0	0	0	0	0	0
IHCTQTLLEGDGPK	CRABP1	P29762	RABP1	HUM	Unmodified	714930	729000	679130	0	0	0	0	0	0
IHDLALR	LUC7L; LUC7L; LUC	Q9NQ29; A8MYV	LUC7L	HUM	Unmodified	318150	47110	837240	0	0	0	0	0	0
IHDPQLLTER	DARS1; DARS1	P14868; H7BZ35	SYDC	HUM/	Unmodified	7880000	5778500	6449900	331970	338330	382120	14122	0	28436
IHEAIIQSPPIDYFDVFK	ARMT1; ARMT1	Q9H993; F5GZY1	ARMT1	HUM/	Unmodified	417560	432900	385250	0	0	0	0	0	0
IHEATGMPAGK	SF3A1	Q15459	SF3A1	HUM/	Oxidation (M)	1533900	849540	1323900	0	0	0	0	0	0
IHEGCEEPATHNALAK	CLTC; CLTC	Q00610; A0A087	CLH1	HUM/	Unmodified	3333900	3879700	3530100	219200	215790	131690	0	0	7984.8
IHEGCEEPATHNALAK	CLTC; CLTC	Q00610; A0A087	CLH1	HUM/	Deamidation (N)	663430	940390	1745100	0	79617	0	0	0	0
IHETIESINQLK	SMARCD2; SMARCI	Q92925; Q6STE5;	SMRD2	HUM	Unmodified	1561900	0	859830	0	0	0	0	0	0
IHFPLATYAPVISAEK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Unmodified	976330000	673910000	901880000	1210400	886610	532860	412300	329860	365850
IHFRPELPAER	MAOA	P21397	AOFA	HUM	Unmodified	10268000	12338000	10686000	178460	144610	0	0	0	0
IHHDVNELLSLLR	TUBGCP2; TUBGCP	Q9BSJ2; F2Z2B9;	GCP2	HUM	Unmodified	753980	484760	740070	0	0	0	0	0	0
IHIDLPNEQAR	PSMC6; PSMC6	P62333; A0A087	PRS10	HUM/	Unmodified	0	1046000	1191300	0	0	0	0	0	0
IHIMPSLNPDGFEK	CPE; CPE; CPE; CPE	P16870; C9JE88;	CBPE	HUM/	Oxidation (M)	619000	711890	563020	0	0	0	0	0	0
IHLELRNRTPAAVR	ANP32B	Q92688	AN32B	HUM	Deamidation (N)	1411100	0	1282500	0	0	0	0	0	0
IHLELRNRTPSDVK	ANP32A; ANP32D; A	P39687; O95626;	AN32A	HUM	Deamidation (N)	0	0	1181700	0	0	0	0	0	0
IHLISTQSAIPYALR	FGG; FGG; FGG	P02679; C9JC84;	FIBG	HUM/	Unmodified	0	0	1413200	0	0	0	0	0	0
IHLRDYVIEDDVNMAIR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM/	Oxidation (M)	2401600	866800	1591400	0	0	0	0	0	0
IHNGESMAYLFR	PRPSAP1; PRPSAP1	Q14558; B4DP31	KPRA	HUM/	Oxidation (M);Deai	516640	533920	438360	0	0	0	0	0	0
IHNGESMSYLFR	PRPSAP2; PRPSAP2	O60256; I3L0S1	KPRB	HUM/	Oxidation (M);Deai	2055900	1953300	2430600	0	0	0	0	0	0
IHPELLAK	MACROH2A2; MAC	Q9P0M6; O75367	H2AW	HUM/	Unmodified	2213800	1863500	2301200	223920	231830	207450	0	0	0
IHPTSVISGYR	TCP1; TCP1; TCP1;	P17987; F5H676;	TCPA	HUM/	Unmodified	3815300	3968900	3203300	0	0	0	0	0	0
IHQFLSEQFLESEQK	DTX3L	Q8TDB6	DTX3L	HUM	Unmodified	364770	252550	259560	0	0	0	0	0	0
IHQIEYAMEAVK	PSMA1; N/A	P25786; B4DEV8	PSA1	HUM/	Oxidation (M)	6419200	7246400	5993700	328150	361640	309570	15445	0	0
IHSDCAANQQVTYR	DSG1	Q02413	DSG1	HUM/	Unmodified	746820	1515200	874680	201040	322050	233780	0	0	0
IHSEIVK	PYGB	P11216	PYGB	HUM/	Unmodified	0	18115000	0	0	0	0	0	0	0
IHVDFSQSVAK	PPIL4	Q8WUA2	PPIL4	HUM/	Unmodified	0	333300	322980	0	0	17719	0	0	0
IHVFYIDYGNREVLPSTR	SND1	Q7KZF4	SND1	HUM/	Unmodified	931080	641180	1032600	0	0	0	0	0	0
IHVFYIDYGNREVLPSTR	SND1	Q7KZF4	SND1	HUM/	Deamidation (N)	540100	1266100	1451700	0	0	0	0	0	0
IHVLEAQDLIAK	ESYT1	Q9BSJ8	ESYT1	HUM/	Unmodified	2874300	1720800	2555600	0	33541	0	0	0	0
IHVSDQELQSANASVDDSR	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUM/	Deamidation (N)	1617700	1017300	1566300	0	0	0	0	0	0
IHVSDQELQSANASVDDSR	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUM/	Unmodified	1290100	1819000	1039500	0	0	0	0	0	0
IHVSDQELQSANASVDDSRLEELK	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUM/	Unmodified	7015400	4539400	7174700	0	0	0	0	0	0
IHVSDQELQSANASVDDSRLEELK	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUM/	Deamidation (N)	1532200	864840	1110800	0	0	0	0	0	0
IHVSYQETQQMQMK	KTN1	Q86UP2	KTN1	HUM/	2 Oxidation (M)	1274200	1170400	947140	84284	57819	0	0	0	0
IHVYGYSMAYGPAQHAISTEK	PHPT1	Q9NRX4	PHP14	HUM/	Oxidation (M)	16067000	16253000	13129000	175480	219090	99369	0	0	0
IHVYGYSMAYGPAQHAISTEKIK	PHPT1	Q9NRX4	PHP14	HUM/	Oxidation (M)	1315300	0	752430	0	0	0	0	0	0
IHWESASLLR	C3; C3	P01024; M0QYC8	CO3	HUM/	AN Unmodified	538010	407530	697970	0	0	0	0	0	0
IHYIGQNEPELLVAHAYTR	HMOX2; HMOX2; H	P30519; I3L159;	HMOX2	HUM/	Unmodified	3846300	3008400	2770500	0	0	0	0	0	0
IHYLDTTTLIEPVSR	CRK; CRK	P46108; I3L297	CRK	HUM/	Unmodified	9255600	6277000	10723000	0	0	0	0	0	0
IIADIFEYTAK	MMUT	P22033	MUTA	HUM	Unmodified	2684700	3325600	2946500	0	0	28893	0	0	0
IIADLEEEQR	UTRN; UTRN	P46939; Q5T097	UTRN	HUM/	Unmodified	578590	440610	646550	69530	65418	57119	0	0	0
IIAEALTR	NCLN; NCLN; NCLN	Q969V3; K7ENM	NCLN	HUM/	Unmodified	2444200	2924800	2594800	0	0	0	0	0	0
IIAFVGSPVEDNEKDLVK	PSMD4; PSMD4; PSI	P55036; A6PVX3;	PSMD4	HUM	Deamidation (N)	2082500	1329800	1371900	0	0	0	47293	0	0
IIAFVGSPVEDNEKDLVK	PSMD4; PSMD4; PSI	P55036; A6PVX3;	PSMD4	HUM/	Unmodified	2878900	1444500	1613700	0	0	0	0	0	0
IIALDGDTK	TKT; TKT	P29401; A0A0B4	TKT	HUM	Unmodified	1550600	1622200	2349900	105180	123170	126900	0	0	0
IIALDGDTKNSTFSEIFK	TKT; TKT	P29401; A0A0B4	TKT	HUM	Deamidation (N)	601940	627320	621940	0	0	0	0	0	0
IIALDGDTKNSTFSEIFKK	TKT; TKT	P29401; A0A0B4	TKT	HUM	Deamidation (N)	1707300	1344300	0	0	0	0	0	0	0
IIANALSSEPACLAEIEEDK	PRKDC	P78527	PRKDC	HUM/	Unmodified	1149500	0	1068100	0	0	0	0	0	0
IIANALSSEPACLAEIEEDKAR	PRKDC	P78527	PRKDC	HUM/	Unmodified	3426200	3972800	6066600	0	0	0	34861	0	0
IIANALSSEPACLAEIEEDKARR	PRKDC	P78527	PRKDC	HUM/	Unmodified	1615600	2233900	2955400	0	0	0	0	0	0
IIAPANLERPVR	ABI2; ABI2; ABI2; A	Q9NYB9; E7EW7	ABI2	HUM/	Unmodified	803380	0	842810	0	0	25130	0	0	0
IIAPLVTR	PLOD2; PLOD2	O00469; E7ETU9	PLOD2	HUM/	Unmodified	2742500	2473300	2515700	10199	0	0	7704	0	0

IIAPPERK	ACTG1; ACTC1; AC	P63261; P68032; I	ACTG	HUMA	Unmodified	29007000	18457000	22681000	946130	0	914410	0	0	0
IIDDSEITKEDDALWPPPDR	MAGOH; MAGOHB;	P61326; Q96A72;	MGN	HUMA	Unmodified	6637800	4684800	5979800	0	0	0	0	0	0
IIDEDGLLNLIR	RFC1; RFC1	P35251; H0Y8U4	RFC1	HUMA	Unmodified	970280	1020800	1060900	0	0	0	0	0	0
IIDETMAQLQDLK	SMC1A; SMC1A; SN	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	2080800	1054600	1589300	0	0	0	0	0	0
IIDETMAQLQDLKNQHLAK	SMC1A; SMC1A; SN	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	996210	1396100	0	0	0	0	0	0	0
IIDETMAQLQDLKNQHLAK	SMC1A; SMC1A; SN	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M);Dea	397960	521410	512400	0	0	0	0	0	0
IIDFGFAR	RPS6KA5; RPS6KA4	O75582; O75676;	KS6A5	HUM	Unmodified	9391200	6964700	6886000	147910	122110	213640	0	9243.5	0
IIDGLLVMR	PPIH; PPIH; PPIH; PI	O43447; A0A7Z5	PPIH	HUMA	Oxidation (M)	2740700	1986200	1864200	0	38212	21061	0	0	0
IIDISDVFR	DARS2; DARS2; DA	Q6PI48; A0A3B3I	SYDM	HUM	Unmodified	17149000	13656000	12766000	0	0	16956	0	0	0
IIDKEGDDYEVIPNSNFYVSR	SMC4; SMC4; SMC4	Q9NTJ3; C9J9E4;	SMC4	HUMA	Deamidation (N)	505410	590580	449670	0	0	0	0	0	0
IIDKNGIHDLDNISFPK	PSMB2; PSMB2	P49721; A0A087V	PSB2	HUMA	Deamidation (N)	5577600	9611900	7297600	20174	0	0	0	0	0
IIDKSKRDPTEEIEILLR	RPS6KA3; RPS6KA3	P51812; B7ZB17;	KS6A3	HUM.	4 Methyl (KR)	0	0	0	0	0	0	0	0	0
IIDPLPPIDHSEIDYPPFEK	DDX42; DDX42	Q86XP3; A0A0A	DDX42	HUM	Unmodified	618590	1957100	3561500	0	0	0	0	0	0
IIDRIHGTEEGQQILK	NUMA1; NUMA1; N	Q14980; F5H073;	NUMA1	HUM	Unmodified	473090	453290	220950	0	0	0	0	0	0
IIDTPQFQR	SAMHD1; SAMHD1;	Q9Y3Z3; A0A2R8	SAMH1	HUM	Unmodified	1141100	1067500	1138500	0	0	0	0	0	0
IIDVSTVK	REXO2; REXO2; RE	Q9Y3B8; F5GYG	ORN	HUMA	Unmodified	745140	882370	830530	41415	36330	42710	0	0	0
IIDVVYNASNNELVR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMA	Deamidation (N)	1421100	2642000	1672200	53496	45606	30151	0	0	0
IIDVVYNASNNELVR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMA	N 2 Deamidation (N)	2325500	2616600	3837100	0	50391	0	0	0	0
IIDVVYNASNNELVR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMA	Unmodified	5033000	3749100	4077800	170830	131740	87241	47079	195520	57064
IIEAAHQVGEDEISLSTLGR	TRIP12	A0A6Q8PHK0	A0A6Q8PHK	HUM	Unmodified	3112100	3413800	2609300	0	0	0	0	0	0
IIEDQQESLNK	SSB	P05455	LA	HUMA	N	Unmodified	1961300	0	1784800	114830	0	41399	0	0	0
IIEDQQESLNKWK	SSB	P05455	LA	HUMA	N	Unmodified	2205300	2992500	2237800	69330	0	68919	0	0	0
IIEETLALK	ARPC2; ARPC2; AR	O15144; G5E9J0;	ARPC2	HUM	Unmodified	3041500	1633200	2048000	9737	0	0	0	0	0
IIENAENEYQTAISENYQTMSDTTFK	CAPZA1	P52907	CAZA1	HUM	Oxidation (M)	3258300	2524700	2117800	0	0	0	0	0	0
IIEPLTSR	RFC4; RFC4; RFC4	P35249; C9J8M3;	RFC4	HUMA	Unmodified	2752700	2106800	1354200	0	0	0	0	0	0
IIETMPMTEKVEELLR	ACBD5; ACBD5; AC	Q5T8D3; A0A7I2	ACBD5	HUM	2 Oxidation (M)	560620	876130	689550	0	0	0	0	0	0
IIETPGIR	LRPPRC	P42704	LPPRC	HUM	Unmodified	7329500	7928100	9455400	261830	206040	255490	13145	14049	0
IIEVSGQK	RAB14; RAB14	P61106; X6RFL8	RAB14	HUM	Unmodified	1693000	1744800	761980	39059	35858	33946	0	0	0
IIEVVDAIMTTAQSHQR	PFKP; PFKP; PFKP	Q01813; A0A7I2	PFKAP	HUM	Oxidation (M)	5413200	3269500	4297400	0	0	0	0	0	0
IIFDDFR	STT3A	P46977	STT3A	HUM	Unmodified	1366200	0	1268200	0	25858	0	0	0	0
IIFDDFREAYYWLR	STT3A	P46977	STT3A	HUM	Unmodified	81085	17670	74596	0	0	0	0	0	0
IIFEDDRCLAFHDISPQAPTHFLVIPK	HINT1; HINT1; HINT	P49773; H0YC49;	HINT1	HUM	Unmodified	1348700	2423200	2170000	0	0	0	0	0	0
IIFVVGGPGSGK	AK1; AK1	P00568; Q5T9B7	KAD1	HUMA	Unmodified	3015500	2800400	3215000	0	0	0	0	0	0
IIGAKDHASIQMNVAEVDKVTGR	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21	HUMA	Oxidation (M)	6093200	5997800	7029800	0	0	0	0	0	0
IIGAKDHASIQMNVAEVDKVTGR	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21	HUMA	Oxidation (M);Met	815160	722860	492230	0	0	0	0	0	0
IIGAKDHASIQMNVAEVDKVTGRFNGQFK	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21	HUMA	Oxidation (M);Dea	3888500	2740900	727970	0	0	0	0	0	0
IIGATDSSGELMFLMK	CBX3; CBX1; CBX1	Q13185; P83916;	CBX3	HUMA	2 Oxidation (M)	64495000	55393000	57915000	700620	685520	340850	57407	45628	0
IIGDTFVK	GMPS	P49915	GUAA	HUM	Unmodified	12630000	12850000	14411000	0	16222	0	0	0	0
IIGEDSPSRLDR	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5	NCOR2	HUM	Unmodified	1294500	1713700	1025700	0	0	40413	0	0	0
IIGIPSPSSLFK	FRYL; FRYL; FRYL	O94915; F2Z2S2;	FRYL	HUMA	Unmodified	2389600	1169700	1849000	0	0	0	0	0	0
IIGLDQVAGMSETALPGAFK	MYH9	P35579	MYH9	HUM	Oxidation (M)	15740000	15205000	1949500	12824	0	0	0	0	0
IIGVDINKDKFAR	ADH5; ADH5	P11766; H0YAG8	ADHX	HUM	Unmodified	1673300	1645200	1327000	273430	300720	224970	70329	0	0
IIGVHQEDELLECLSPATSR	USP7; USP7; USP7	Q93009; A0A669	UBP7	HUMA	Unmodified	0	502220	0	0	0	0	0	0	0
IIHDFPQFYPLGIVQHD	RPA3; RPA3	P35244; B5MC59	RFA3	HUMA	Unmodified	43703000	20795000	24881000	0	0	17510	0	0	0
IIHEDGFSGEDVK	GNAO1; GNAO1; GN	P09471; A0A1W2	GNAO	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IIHGQDFDQR	GNA13	Q14344	GNA13	HUM	Unmodified	0	2306200	1903500	91660	109400	133790	0	0	0
IIIEELPK	CTHRC1; CTHRC1	Q96CG8; E5RK99	CTHR1	HUM	Unmodified	0	0	0	0	0	472200	168760	0	0
IIIEELSLVAASPTLSPR	PKN2; PKN2; PKN2	Q16513; B1AL79;	PKN2	HUMA	Unmodified	328380	0	58861	0	0	0	0	0	0
IIIEMEVR	N/A	N/A	N/A		Oxidation (M)	0	0	4399200	0	0	0	0	0	0
IIIPEIQK	CSE1L	P55060	XPO2	HUMA	Unmodified	0	5401100	6374900000	0	0	0	0	0	0
IIIPPFLAYGEK	FKBP10	Q96AY3	FKB10	HUM	Unmodified	125740	140630	0	0	0	0	0	0	0
IIKDFMIQGGDPTGTGR	PPIL1	Q9Y3C6	PPIL1	HUMA	Oxidation (M)	7643700	7115100	8216100	146360	151830	0	0	0	0
IIKERELELQKEQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	727560	724450	887470	0	0	0	0	0	0
IIKPVLTQESATYIAEEYSR	MCM3; MCM3; MC3	P25205; Q7Z6P5;	MCM3	HUM	Unmodified	13317000	12548000	17058000	0	0	0	0	0	0
IILDLISESPIK	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Unmodified	2733700	2391800	2190600	129020	0	117470	0	0	0
IILDLISESPIKGR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Unmodified	7156600	7645300	6996700	18429	0	0	0	0	0
IILEAEK	RHEB; RHEB	Q15382; C9J931	RHEB	HUMA	Unmodified	560260	958400	585930	0	0	0	0	0	0
IILEAEKMDGAASQGK	RHEB; RHEB	Q15382; C9J931	RHEB	HUMA	Oxidation (M)	1968700	2085300	2781600	0	0	35617	0	0	0
IILEALR	SCG2; SCG2; SCG2	P13521; C9JDT0;	SCG2	HUMA	Unmodified	846380	936150	640900	0	0	0	0	0	0
IILLAEGR	AHCY	P23526	SAHH	HUM	Unmodified	20033000	18793000	20185000	326410	364810	287400	50885	0	0
IILNALVAQQKNGSPAGGDAK	LPGAT1	Q92604	LGAT1	HUM	Deamidation (N)	656500	605150	615440	0	0	17140	0	0	0
IILPEGAK	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	6178000	3843400	5567600	291260	285250	602810	0	0	0
IILPEGAKNIEIDSPYEISR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	2351400	0	0	0	0	0	0	0	0
IILPEGAKNIEIDSPYEISR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Methyl (KR)	853290	656590	584030	0	0	0	0	0	0
IILTARPFRLDLLEDR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	4038600	1577500	1943700	0	0	0	0	0	0
IIMKDEIIPCHR	KBTBD3; KBTBD3	Q8NAB2; U3KQF	KBTB3	HUM	Oxidation (M);Met	7266500	7390400	6468500	1382200	1255000	1322100	61940	54662	90385
IIMPPSALDQLSR	UFD1; UFD1	Q92890; C9J6N9	UFD1	HUMA	Oxidation (M)	1522900	2258300	4078100	36043	24465	30535	0	0	0
IINADSEDPKYIINVK	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7	HUMA	Deamidation (N)	1023700	1510000	1276000	0	14704	0	0	0	0
IINADSEDPKYIINVK	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7	HUMA	Unmodified	0	1060700	1114800	20390	18147	17616	0	0	0
IINDLLQSLR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	Unmodified	15881000	14562000	20245000	26582	17396	0	19928	0	16026
IINDLLQSLR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	Deamidation (N)	953200	623830	1186200	0	0	0	0	0	0
IINDNATYCR	NOP56; NOP56; NOP	O00567; Q5JXT2;	NOP56	HUM	Unmodified	385260	510560	408830	0	0	0	0	0	0
IINEPTAAAIAYGLDK	HSPA1L; HSPA5; HS	P34931; P11021; I	HS71L	HUM	Unmodified	11616000	13206000	13706000	83020	92732	71839	52604	54618	56024
IINEPTAAAIAYGLDKK	HSPA8; HSPA2; HSP	P11142; P54652; I	HSP7C	HUM	Unmodified	117100000	137070000	146040000	843820	524810	621630	104170	110620	73613
IINEPTAAAIAYGLDKK	HSPA8; HSPA2; HSP	P11142; P54652; I	HSP7C	HUM	Methyl (KR)	64692000	53202000	57921000	369830	224560	298130	0	28046	30654
IINEPTAAAIAYGLDKK	HSPA8; HSPA2; HSP	P11142; P54652; I	HSP7C	HUM	Deamidation (N)	1569800	3757200	2094000	0	0	0	0	0	0
IINEPTAAAIAYGLDKK	HSPA8; HSPA2; HSP	P11142; P54652; I	HSP7C	HUM	Methyl (KR);Deam	6729400	7632000	5004400	0	0	0	0	0	0
IINEPTAAAIAYGLDKKVGAER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	9875600	8050300	3578900	50007	0	0	16451	0	0
IINEPTAAAIAYGLDKKVGAER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Methyl (KR)	2568100	9805600	4317200	0	0	0	0	0	0
IINEPTAAAIAYGLDKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	N Unmodified	353260000	245720000	255060000	1717400	1128400	917820	0	118780	140790
IINEPTAAAIAYGLDKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	N Methyl (KR)	10661000	9911000	9951900	75607	41106	42937	0	0	13896
IINEPTAAAIAYGLDKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	N Deamidation (N)	12479000	16642000	10383000	0	11802	0	0	0	0
IINEPTAAAIAYGLDKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	N 2 Methyl (KR);Dea	1096500	646200	931180	0	0	0	0	0	0
IINEPTAAAIAYGLDR	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP76	HUM	Unmodified	59551000	50030000	67239000	376900	236510	211990	106910	76662	88560
IINEPTAAAIAYGLDR	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP76	HUM	Deamidation (N)	5093500	6219300	5140800	10288	0	0	0	0	0
IINEPTAAAIAYGLDRTGK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	0	1743900	0	21155	0	0	0	0	0
IINEPTAAAIAYGLDRTGKGER	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	14738000	12695000	17563000	331780	250870	173450	47678	24280	53623
IINEPTAAAIAYGLDRTGKGER	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Methyl (KR)	704220	0	568910	0	0	0	0	0	0
IINEVKPTEIYNLGAQSHVK	GMDS	O60547	GMDS	HUM	Unmodified	1208600	1146900	876530	0	0	0	0	0	0
IINFAPSLLR	IPO8; IPO8	O15397; F5H2I3	IPO8	HUMA	Unmodified	707030	993230	512870	0	0	0	0	0	0
IINLGPVHPGPLSPEPQPMGVR	PIP4P1	Q86T03	PP4P1	HUM	Oxidation (M)	5343200	4349000	4536600	30087	17446	0	0	0	0
IINSRVLVDQTTGLSR	ELAVL1	Q15717	ELAV1	HUM	Deamidation (N)	681670	644100	667910	59199	43323	0	9847.7	0	0
IIPAIWFR	ERGIC1	Q969X5	ERGI1	HUM	Unmodified	1937700	2736100	2352100	27496	21702	18830	0	0	0
IIPGADADVVVWDPEATK	DPYSL5	Q9BPU6	DPYL5	HUM	Unmodified	1738900	1771700	2029200	0	0	0	0	0	0
IIPGGIADR	LIN7C; LIN7C	Q9NUP9; G3V1D	LIN7C	HUM	Unmodified	5003300	4097000	3140100	238190	138740	231790	0	0	0
IIPLLTDPK	EPHX1	P07099	HYEP	HUM	Unmodified	670260	679110	988730	0	0	0	0	0	0
IIPLYSTLPPQQQQR	DHX15	O43143	DHX15	HUM	Unmodified	6641800	7347000	8167300	405000	368990	333050	18031	33219	0
IIPPGSGIIHQVNLEYLAR	ACO1	P21399	ACOC	HUM	Unmodified	12122000	10099000	14631000	0	0	0	0	0	0
IIPQGADSTMLATK	NUP214; NUP214; N	P35658; H0YF36;	NU214	HUM.	Oxidation (M)	670580	888990	1110200	147620	87106	139980	0	0	0
IIPTLEEYQHYK	HNRNPK	Q5T6W2	HU	Unmodified		1775200	1436100	1097000	0	0	0	0	0	0
IIPVLLEHGLER	LIG1; LIG1; LIG1	P18858; M0R0Q7	DNLI1	HUM	Unmodified	322750	279970	268150	0	0	0	0	0	0
IIPYLSFGEVEK	UBR4; UBR4	Q5T4S7; X6R960	UBR4	HUMA	Unmodified	1030600	1108400	772820	0	0	0	0	0	0
IIQAHGGTVDPTFTSR	PAXIP1	Q6ZW49	PAXI1	HUM	Unmodified	572020	382100	394810	40051	0	30834	0	0	0
IIQEFLSK	MSH2	P43246	MSH2	HUM	Unmodified	5134800	4079500	5245200	0	0	0	0	0	0
IIQEFLSKVK	MSH2	P43246	MSH2	HUM	Methyl (KR)	653790	0	2016800	0	0	0	0	0	0
IIQEQDAGLDALSSIISR	STX8; STX8	Q9UNK0; K7EQB	STX8	HUMA	Unmodified	2232700	1841900	2630900	0	0	0	0	0	0
IIQEVEENPDLR	CENPB	P07199	CENPB	HUM	Unmodified	1655600	2002800	2625400	152400	0	0	0	0	0
IIQLIEGK	BPNT1; BPNT1	O95861; A6NF51	BPNT1	HUM	Unmodified	1735300	0	343270	0	0	0	0	0	0
IIQLLDDYPK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0	HUMA	Unmodified	3521600	3529100	3097300	0	0	0	0	0	0
IIQQGLIR	GATAD2A	Q86YP4	P66A	HUMA	Unmodified	1187100	2270900	1263000	0	0	0	0	0	0
IIQTAQTTPVQTVTIVQQAPLGQHQLPIK	FOXK2; FOXK2	Q01167; I3L4U8	FOXK2	HUM	Unmodified	4462200	3855100	16237000	0	0	0	0	0	0
IIRTDWDAGFKEGR	NCBP2; NCBP2; NCI	P52298; C9JQX9;	NCBP2	HUM	Unmodified	750380	464710	549280	0	0	0	0	0	0
IISANGCKVDNSSLTGESEPQTR	ATP1A1	P05023	AT1A1	HUM	2 Deamidation (N)	0	0	3136900	240260	0	216970	0	0	0
IISAPEMR	IGFBP5; IGFBP5	P24593; C9JXX4	IBP5	HUMA	Oxidation (M)	3041200	2715300	3182400	0	178550	0	0	0	0
IISAPEMRQESEQGPCR	IGFBP5	P24593	IBP5	HUMA	Oxidation (M)	453480	508960	448430	0	0	0	0	0	0
IISIFSGTEK	PAK2	Q13177	PAK2	HUM	Unmodified	1131800	2513200	1530200	0	20496	29069	0	0	0
IISKEGIPGLYR	SLC25A24	Q6NUK1	SCMC1	HUM	Unmodified	4546000	2852700	3931700	35493	33823	0	0	0	0
IISKIENHEGVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	4783500	4785000	5137300	129600	64328	83508	0	0	0
IISKIENHEGVR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Deamidation (N)	11455000	11926000	12994000	103900	115810	113650	11411	13224	0
IISLETYNLLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	2075800	1224300	1963900	17055	0	8364.6	20709	0	0
IISNASCTTNCLAPLAK	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMA	Deamidation (N)	2530400	0	1458600	0	0	0	0	0	0
IISNASCTTNCLAPLAK	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMA	N 2 Deamidation (N)	1742400	2698400	1517800	0	0	0	0	0	0
IISPTLLAEYAYVLR	METTL1; METTL1;	Q9UBP6; H0YIH0	TRMB	HUM	Unmodified	170480	104720	121970	0	0	0	0	0	0
IISSDRDLLAVVFYGTEK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	0	0	1351700	0	0	0	0	0	0
IISSIEQK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Unmodified	9570600	9966100	9851600	131020	82157	85625	0	0	0
IISSIEQKEENK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Unmodified	2832400	2596700	4336100	80046	0	81323	0	0	0
IISSIEQKEENKGGEDK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Unmodified	1229800	1582500	1722400	0	0	0	0	0	0
IISSIEQKEENKGGEDK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
IISSIEQKEENKGGEDKLK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Unmodified	26525000	26926000	23727000	316710	56277	175300	0	0	0
IISSIEQKEENKGGEDKLK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Deamidation (N)	23133000	23292000	22095000	56494	47979	64535	0	0	0
IISSIEQKEENKGGEDKLK	YWHAE; YWHAE; Y	P62258; I3L3T1;	I	1433E	HUMA	Methyl (KR);Deam	2642600	1724900	3298200	0	0	0	0	0	0
IISSRGMNLIQHR	N/A	N/A	N/A		2 Methyl (KR)	406150	496420	373780	0	0	0	0	0	0

IISTITR	CLSTN1; CLSTN1	O94985; Q5SR54	CSTN1 HUM	Unmodified	1653600	1799300	1831200	28191	31611	43723	0	8045.7	0
IISTTASK	VAPB	O95292	VAPB HUM	Unmodified	2579100	2028900	2172200	121510	130790	203070	0	0	0
IISTTASKTETPIVSK	VAPB	O95292	VAPB HUM	Unmodified	4242800	4066500	3758300	332320	174050	149660	65806	32332	43287
IISTTASKTETPIVSK	VAPB	O95292	VAPB HUM	Methyl (KR)	392420	287730	342560	0	21192	0	0	0	0
IISVNSVDLR	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1 HUM	Deamidation (N)	1366800	0	0	0	52030	58932	0	0	0
IISVTPVK	PDS5A	Q29RF7	PDS5A HUM	Unmodified	3531200	3088900	3776200	180430	214740	182810	0	0	0
IISYAQGFMLLR	PGD; PGD	P52209; K7ELN9	6PGD HUM	Oxidation (M)	2175800	2531300	1498800	0	0	0	0	0	0
IITDVIGNPEEER	SMARCD2; SMARCI	Q92925; J3KMX2	SMRD2 HUM	Unmodified	1149600	792280	1196700	31394	28442	23640	0	0	0
IITDVIGNPEEERR	SMARCD2; SMARCI	Q92925; J3KMX2	SMRD2 HUM	Unmodified	12475000	12410000	13450000	229060	216690	128390	0	0	0
IITEGASILR	PPP3CA; PPP3CA; P	Q08209; E9PPC8;	PP2BA HUM	Unmodified	1887900	1400700	2438500	0	0	0	0	0	0
IITEGFEAAK	CCT6A	P40227	TCPZ HUM	Unmodified	2389100	1525200	4346400	0	0	0	0	0	0
IITEGFEAAKEK	CCT6A	P40227	TCPZ HUM	Unmodified	1281000	0	1051600	0	0	0	0	0	0
IITGGAAAQDGR	DLG1; DLG1; DLG1;	Q12959; H7C166;	DLG1 HUM	Unmodified	2095400	2332700	2256600	0	0	0	0	0	0
IITGGAPELAVEGNGPVESNAVLTK	CSTF3; CSTF3; CSTI	Q12996; E9PLP8;	CSTF3 HUM	Deamidation (N)	2500300	0	2551500	0	0	0	0	0	0
IITGPAPVLPPAALR	QKI; QKI; QKI	Q96PU8; H0YGD	QKI HUM	Unmodified	0	0	0	56081	55722	52123	0	0	18974
IITITGTQDQIQNAQYLLQNSVK	HNRNPK	P61978	HNRPK HUM	Deamidation (N)	28167000	15313000	20807000	0	0	0	0	0	0
IITITGTQDQIQNAQYLLQNSVK	HNRNPK	P61978	HNRPK HUM	2 Deamidation (N)	1503200	0	1303900	0	0	0	0	0	0
IITITGTQDQIQNAQYLLQNSVK	HNRNPK	P61978	HNRPK HUM	Unmodified	13569000	6233000	14346000	24087	0	0	0	0	0
IITKDFPQYFAVVSR	ANK3; ANK3; ANK3	Q12955; A0A087	ANK3 HUM	Unmodified	551090	0	399540	0	0	0	0	0	0
IITLAGPTNAIFK	PCBP2; PCBP2; PCB	Q15366; F8VZX2;	PCBP2 HUM	Unmodified	11307000	10346000	17246000	55907	40436	41746	29976	39961	0
IITLAGPTNAIFK	PCBP2; PCBP2; PCB	Q15366; F8VZX2;	PCBP2 HUM	Deamidation (N)	2958900	2198500	2319200	14587	0	12825	0	0	0
IITLTGPTNAIFK	PCBP1	Q15365	PCBP1 HUM	Unmodified	10251000	8392300	7899700	32975	31292	31509	32449	42753	34922
IITLTGPTNAIFK	PCBP1	Q15365	PCBP1 HUM	Deamidation (N)	8801800	6048300	6457700	0	0	0	0	8566.4	0
IITVEKHPDADSLYVEKIDVGEAEPR	YARS1; YARS1	P54577; A0A6Q8	SYYC HUM	Unmodified	5416200	2795500	3865300	0	0	0	0	0	0
IITVSMEDVK	NSUN2	Q08J23	NSUN2 HUM	Oxidation (M)	4256000	3851500	4359600	0	0	0	0	0	0
IIVDELKQEVISTSSK	RACK1; RACK1; RA	P63244; D6RAC2	RACK1 HUM	Unmodified	21738000	18254000	21395000	41252	0	0	0	0	7795.5
IIVLGLLPR	PAFAH1B2; PAFAH1	P68402; J3KNE3	PA1B2 HUM	Unmodified	6106300	3626300	3665900	0	0	0	0	0	0
IIWELIK	IDH1; IDH1; IDH1; I	O75874; C9J4N6;	IDHC HUM	Unmodified	2650900	2964600	2300200	0	8007.3	0	0	0	0
IIWQFIK	IDH2; IDH2	P48735; H0YL11	IDHP HUM	Unmodified	1764200	1916000	1848300	0	0	0	0	0	0
IIYGGSVTGATCK	TPI1	P60174	TPIS HUM	Unmodified	25227000	25890000	25777000	687630	554400	733430	34508	0	38203
IIYIAPMR	SNRNP200; SNRNP2	O75643; A0A494	U520 HUM	Oxidation (M)	3982400	3346800	4873400	0	0	0	0	0	0
IIYSPTVGDPIDEYTTVPGR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1 HUM	Unmodified	0	0	0	72426	57737	26911	17189	0	23648
IKAAVEDPRVLLLDL	DLST	P36957	ODO2 HUM	Unmodified	3289100	1383000	1804800	0	0	0	0	0	0
IKAIPQLQGYLR	RPL6	Q02878	RL6 HUMAN	Unmodified	6518500	7387100	5525900	0	0	0	0	0	0
IKAQDEAFALQDVPLSSVVR	MRPL11; MRPL11	Q9Y3B7; H0YCD	RM11 HUM	Unmodified	5004500	3248400	3214000	0	0	0	0	0	0
IKDHIQNGKLDLTK	DDX21	Q9NR30	DDX21 HUM	Deamidation (N)	1700900	1936100	1898500	0	0	0	0	0	0
IKDIAWTEDSKR	WDR1; WDR1	O75083; D6RD66	WDR1 HUM	Unmodified	1822900	1734100	1964400	127110	121040	79778	0	0	0
IKDLSTVEALMAMKMMK	ANP32E	E9PLC4	E9PLC4 HUM	3 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
IKDLSTVEALQNLK	ANP32E; ANP32E	Q9BTT0; E9PPH5	AN32E HUM	Unmodified	2562200	3818900	2976600	0	0	0	0	0	0
IKDMDLWEQQEEER	EIF3A	Q14152	EIF3A HUM	Oxidation (M)	1260200	898240	1375900	0	56205	41325	0	0	0
IKDMDLWEQQEEERITTMQLER	EIF3A	Q14152	EIF3A HUM	2 Oxidation (M)	0	610610	1812500	0	0	0	0	0	0
IKDPDASKPEDWDER	CALR; CALR; CALR	P27797; A0A7P01	CALR HUM	Unmodified	36521000	38545000	46961000	492120	760000	782660	0	17822	16072
IKDPDASKPEDWDER	CALR; CALR; CALR	P27797; A0A7P01	CALR HUM	Methyl (KR)	3866300	5560700	4544400	0	0	19202	0	0	0
IKDPDASKPEDWDERAK	CALR; CALR; CALR	P27797; A0A7P01	CALR HUM	Unmodified	1682300	7054100	6820800	0	0	0	0	0	0
IKDTVLQR	GART; GART	P22102; F8WD69	PUR2 HUM	Unmodified	2573500	2229000	2796200	0	358040	159420	0	0	0
IKEIVKK	HSP90AA5P; HSP90	Q58FG0; Q14568;	HS905 HUM	Unmodified	1812200	1423400	1613600	15478	0	0	0	0	0
IKEKYIDQEELNK	HSP90AB1; HSP90A	P08238; Q58FF8;	HS90B HUM	Unmodified	563400	374740	497260	47980	44836	49645	0	0	0
IKELRENTQTTIK	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK HUM	Deamidation (N)	1137900	1016000	1799900	0	0	0	0	0	0
IKESLPIDIDQLSGR	OXR1	Q8N573	OXR1 HUM	Unmodified	0	1506900	1726600	0	0	0	0	0	0
IKETPSEQESK	CLMN	Q96JQ2	CLMN HUM	Unmodified	395620	326340	254840	83465	0	0	0	0	0
IKETVDQVEELRR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1 HUM	Unmodified	7570400	8523900	9687000	91045	117930	83656	0	0	0
IKFKESFAEMNR	COX4I1; COX4I1; CC	P13073; H3BPG0	COX41 HUM	Oxidation (M)	350750	450240	510570	64283	0	17939	0	0	0
IKGDVPSVGLEGPDVDLQGPEAK	AHNAK	Q09666	AHNK HUM	Unmodified	1406500	1308300	1144300	137490	112570	31554	162660	0	128240
IKGEHPGLSIGDVAK	HMGB1P1; HMGB1;	B2RPK0; P09429;	HGB1A HUM	Unmodified	1327500	1398500	1141100	17879	0	12908	0	0	0
IKGEHPGLSIGDVAKK	HMGB1P1; HMGB1;	B2RPK0; P09429;	HGB1A HUM	Unmodified	5553800	7016800	6905300	240900	222920	124640	0	0	0
IKGEHPGLSIGDVAKK	HMGB1P1; HMGB1;	B2RPK0; P09429;	HGB1A HUM	Methyl (KR)	987790	1182700	1081800	0	0	0	0	0	0
IKIGDPLLEDTR	ALDH9A1	P49189	AL9A1 HUM	Unmodified	0	0	0	376350	357740	0	0	40456	37383
IKKDEKQNLLSVGDYR	SMARCA5	O60264	SMCA5 HUM	Unmodified	1229700	1155500	973830	0	0	0	0	0	0
IKKLPEYNPR	RCC2	Q9P258	RCC2 HUM	Unmodified	1044800	822320	985940	0	0	0	0	0	0
IKKNPMLM	N/A	N/A	N/A	2 Oxidation (M);De	0	0	0	0	0	0	0	426530	0
IKKTKQIDEEDLR	NAPA; NAPA; NAP A	P54920; M0R213;	SNAA HUM	Unmodified	96766	0	0	0	447000	312090	28948	65900	85825
IKLGFTQGDVGLAMGK	POU2F2; POU2F3; PO	P09086; Q9UKI9;	PO2F2 HUM	Oxidation (M)	3753800	2068100	0	58757	39517	16207	0	0	0
IKLYSESLAR	GDI1; GDI2; GDI2; G	P31150; P50395;	GDIA HUM	Unmodified	4132000	3269800	4669500	159910	127870	127700	0	0	0
IKMIDMPVER	RNPS1; RNPS1; RNP	Q15287; H3BMS0	RNPS1 HUM	2 Oxidation (M)	1546000	631500	0	0	0	0	0	7026.7	0
IKNEVDSTLTFR	SDHB; SDHB; SDHB	P21912; A0A087	SDHB HUM	Unmodified	1568500	1390900	1472800	30629	0	15521	0	0	0
IKNGMTLLMMGSADALPEEPSAK	USP14	P54578	UBP14 HUM	3 Oxidation (M);De	4032900	5474700	5692500	268940	59785	137010	0	0	0
IKNIISTEDAK	C9orf78	Q9NZ63	TLS1 HUM	Unmodified	726960	589420	546020	0	0	0	0	0	0
IKNVDCVLLAR	MTAP; N/A; MTAP;	Q13126; F2Z2F3;	MTAP HUM	Unmodified	915040	868550	721000	23234	36813	0	0	0	0
IKPHLMSQELPEDWDKQPVK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1 HUM	Oxidation (M)	10550000	9428600	7342100	0	88426	72944	0	0	0
IKPHLMSQELPEDWDKQPVK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1 HUM	Oxidation (M);Met	2173600	748750	878270	0	0	0	0	0	0
IKPVFIEDANFGR	CACNA2D1; CACNA	P54289; E7ERK3	CA2D1 HUM	Deamidation (N)	1350900	1296800	1429200	0	0	0	0	0	0
IKPVFIEDANFGR	CACNA2D1; CACNA	P54289; E7ERK3	CA2D1 HUM	Unmodified	2861800	2700300	2968900	57433	53367	0	23924	0	50907
IKPVLMMNKMDR	EEF2	P13639	EF2 HUMAN	3 Oxidation (M);De	4473800	3517900	3545400	0	0	0	0	0	0
IKQLENGVLQIR	ROBO1; ROBO1; RO	Q9Y6N7; A0A0A	ROBO1 HUM	Deamidation (N)	0	580350	0	0	39243	0	0	0	0
IKSDHPGISITDLSK	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1 HUM	Unmodified	1197500	757780	812190	0	0	0	0	0	0
IKSDHPGISITDLSKK	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1 HUM	Unmodified	1155000	1155800	773890	0	0	0	0	0	0
IKSDYAQLLEDMQNAFR	ATP6V1A	P38606	VATA HUM	Oxidation (M);Deam	1375500	1451400	1243300	17980	0	0	0	0	0
IKSDYAQLLEDMQNAFR	ATP6V1A	P38606	VATA HUM	Oxidation (M)	5129700	4388800	5438700	0	15760	0	10757	0	0
IKSEHPGLSIGDTAK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2 HUM	Unmodified	1249400	1734900	1848600	0	0	22674	0	0	0
IKSEHPGLSIGDTAKK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2 HUM	Unmodified	4326600	3745900	4679500	69437	0	0	0	0	0
IKSEHPGLSIGDTAKK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2 HUM	Methyl (KR)	0	465150	653570	0	0	0	0	0	0
IKSTNPGISIGDVAK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3 HUM	Unmodified	3855700	3799800	4310200	20184	22793	28264	0	0	0
IKTEPSSPLSDPSDIIR	ZBTB21	Q9ULJ3	ZBT21 HUM	Unmodified	624970	545920	456340	0	19598	0	0	0	0
IKTLFPLIEAK	XRCC5	P13010	XRCC5 HUM	Unmodified	6853600	5336400	5462400	32856	42531	38022	0	0	0
IKTVDISMILSEAIR	PRPSAP2; PRPSAP2	O60256; I3L0S1	KPRB HUM	Oxidation (M)	1007400	578760	839830	0	0	0	0	0	0
IKVAEDEAEAAAAAK	SLC3A2; SLC3A2; SI	P08195; A0A7P02	4F2 HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
IKVFGPGIEGKDVFR	FLNB; FLNB	O75369; E7EN95	FLNB HUM	Unmodified	5715800	4296500	4466800	362210	337800	140630	78921	59308	139810
IKVSGLGEKVDVGKDQEFTVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA HUM	Unmodified	853650	1018000	735400	0	0	0	56993	22947	44395
IKWGDAGAEYVVESTGVFTTMEK	GAPDH; GAPDH	P04406; E7EUT5	G3P HUMAN	Oxidation (M)	61569000	42796000	67903000	0	0	133280	0	22726	0
IKWGDAGAEYVVESTGVFTTMEK	GAPDH; GAPDH	P04406; E7EUT5	G3P HUMAN	Oxidation (M);Met	7137100	5036000	7489600	0	0	0	0	0	0
IKYPENFFLLR	PPP1CA; PPP1CB; P	P62136; P62140;	PP1A HUM	Unmodified	1268700	1366200	1335500	0	0	0	0	0	0
ILADLNQQAPAPAPAERR	KLF13; KLF13	Q9Y2Y9; A0A087	KLF13 HUM	Unmodified	590270	547610	400960	0	0	0	0	0	0
ILADQQDK	RUVBL1; RUVBL1	Q9Y265; H7C4G5	RUVB1 HUM	Unmodified	459030	0	449190	0	0	0	0	0	0
ILADQQDKYMK	RUVBL1; RUVBL1	Q9Y265; H7C4G5	RUVB1 HUM	Oxidation (M)	7019700	7094300	6399800	962290	991500	921520	104160	146080	121590
ILAEGGGAK	TUFM	P49411	EFTU HUM	Unmodified	17389000	16264000	15322000	487960	554880	666240	0	0	0
ILAGDKNYITMDELR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1 HUM	Oxidation (M)	630420	0	509150	29691	0	21564	0	0	0
ILAGDKNYITMDELR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1 HUM	Oxidation (M);Deam	0	0	0	0	0	0	0	0	0
ILAGDKNYITMDELRR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1 HUM	Oxidation (M)	4689700	2846900	4413100	299180	285780	271660	0	0	0
ILAGLGFDPEMQNRPTQK	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1 HUM	Oxidation (M)	4513400	1532900	3683100	46491	0	0	0	0	0
ILAHLTGTEFMQDPDEEHLKK	PDLIM7; PDLIM7	Q9NR12; D6RH0	PDLI7 HUM	Oxidation (M)	1815800	1095600	1395600	0	0	0	0	0	79309
ILAIGLINEALDEGDAQK	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1 HUM	Unmodified	1135200	698720	1006400	0	0	0	0	0	0
ILAIGLINEALDEGDAQK	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1 HUM	Deamidation (N)	381930	748330	355960	0	0	0	0	0	0
ILANGEIVQDDDPRVR	FAM241B; FAM241I	Q96D05; Q5VVH9	F241B HUM	Deamidation (N)	998920	1001600	2470300	72670	47563	58896	0	0	0
ILAPLLILDK	AP4S1	Q9Y587	AP4S1 HUM	Unmodified	183480	121860	199840	0	0	0	0	0	0
ILAQATSDLVNAIK	TLN1	Q9Y490	TLN1 HUM	Unmodified	1164700	1175500	425060	0	0	0	0	0	0
ILAQQTGR	ABHD11; ABHD11;	Q8NFV4; H7C396	ABHDB HUM	Unmodified	1400100	0	652830	114670	137100	78795	0	0	0
ILAQSASVEEVFR	TRIP11; TRIP11	Q15643; H0YJ97	TRIPB HUM	Unmodified	692740	588200	576870	0	0	0	0	0	0
ILATDVSSK	CENPC; CENPC	Q03188; H0Y8J2	CENPC HUM	Unmodified	1464600	1863900	1623800	0	0	0	0	0	0
ILATPPQEDAPSVDIANIR	TKT; TKT; TKT	P29401; A0A0B4	TKT HUMAN	Unmodified	44020000	26378000	33378000	527350	617420	295700	79543	58188	83967
ILATPPQEDAPSVDIANIRMPSLPSYK	TKT; TKT; TKT	P29401; A0A0B4	TKT HUMAN	Oxidation (M)	940580	1252300	1373200	0	0	0	0	0	0
ILAVNGQDVR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB HUM	Deamidation (N)	1908300	1466400	1848900	0	35434	0	0	0	0
ILAVTDFEPTQAR	ERAP2; ERAP2	Q6P179; D6RGW	ERAP2 HUM	Unmodified	861460	686790	587380	95384	83857	87969	44417	49903	42138
ILDAAGANLK	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR HUM	Unmodified	11977000	12961000	10851000	100730	111520	155890	0	0	0
ILDAVVAQEPLHR	EFTUD2; EFTUD2; E	Q15029; K7EP67;	U5S1 HUMA	Unmodified	2316300	2094400	2105000	0	26421	27010	0	0	0
ILDDDTIITTLENLKR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1 HUM	Unmodified	7487900	4309500	6021100	0	0	0	0	0	0
ILDDICVAK	KARS1	Q15046	SYK HUMAN	Unmodified	1811800	1625400	1542100	52023	90135	79379	0	0	0
ILDDTEDTVVSQR	RBM34; RBM34; RB	P42696; A2A2V2;	RBM34 HUM	Unmodified	0	0	1266200	0	78195	0	0	0	0
ILDEIEEHNIK	SEPTIN2; SEPTIN2;	Q15019; H7C2Y0	SEPT2 HUM	Unmodified	4167000	5170200	4486000	0	0	0	0	0	0
ILDETQEAVEYQR	CHMP6; CHMP6; CH	Q96FZ7; I3L4A1;	CHMP6 HUM	Unmodified	909270	1647200	1678900	87553	63657	0	0	0	0
ILDIDPMSVGIIDPR	TFCP2; TFCP2; TFCI	Q12800; F8VWL0	TFCP2 HUM	Oxidation (M)	0	0	171110	0	0	0	0	0	0
ILDIDNVDLAMGK	TIMM44	O43615	TIM44 HUM	Oxidation (M)	680060	559390	876320	0	0	0	0	0	0
ILDIVPPTFSALCPANPTCIYK	NCBP1	Q09161	NCBP1 HUM	Unmodified	718840	764970	860460	0	0	0	0	0	0
ILDLGITGPEGHVLSRPEEVEAEAVNR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2 HUM	Unmodified	47070000	30418000	50973000	0	0	0	0	0	0
ILDLGITGPEGHVLSRPEEVEAEAVNR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2 HUM	Deamidation (N)	1491000	0	0	0	0	0	0	0	0
ILDNLMEMK	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1 HUM	2 Oxidation (M)	0	2846400	0	90228	73880	81639	0	0	0
ILDNTSEPQPGEAR	CPT1A	P50416	CPT1A HUM	Deamidation (N)	1619800	1913100	2225200	0	228980	186000	0	0	0
ILDNTSEPQPGEAR	CPT1A	P50416	CPT1A HUM	Unmodified	1305800	5797600	5268600	639190	652000	778000	0	0	0
ILDPEGLALGAVIASSK	FTSJ3	Q8IY81	SPB1 HUMA	Unmodified	815750	824110	585220	0	0	0	0	0	0
ILDPEGLALGAVIASSKK	FTSJ3	Q8IY81	SPB1 HUMA	Unmodified	1356900	1137400	1142000	0	0	0	0	0	0
ILDPEGLALGAVIASSKK	FTSJ3	Q8IY81	SPB1 HUMA	Methyl (KR)	1885100	0	803490	0	0	0	0	0	0
ILDPKTAQNLSIFLGSYRMPYEDIR	DIAPH2; DIAPH2; DI	O60879; K4DI95;	DIAP2 HUM	Oxidation (M);Met	0	151710	0	0	0	0	0	0	0
ILDPNTGEPAPVLSSPPPADVSTFLAFPSPEK	RANGAP1	P46060	RAGP1 HUM	Deamidation (N)	201980	210170	217110	0	0	0	0	0	0

ILDQGEDFPASEMTR	ERP29; ERP29	P30040; F8VV02	ERP29	HUM	Oxidation (M)	43507000	35745000	32915000	1576600	1491200	1546000	0	0	0
ILDSAEFIK	GTF2I; GTF2I	P78347; A0A494	GTF2I	HUM	Unmodified	7699900	6573900	7172500	288850	124950	280460	22252	35543	17997
ILDSFAAAPVPTTTLVLK	SON	P18583	SON	HUM	Unmodified	3557400	2587900	3269400	0	0	0	0	0	0
ILDSVGIEADDDR	RPLP2	P05387	RLA2	HUM	Unmodified	1533000	0	1030600	0	0	0	0	0	0
ILDSVGIEADDDRLNK	RPLP2	P05387	RLA2	HUM	Unmodified	20803000	15862000	14429000	72543	64730	83034	73210	64902	47437
ILDTERMLAK	CSTF1; CSTF1	Q05048; A0A0A0	CSTF1	HUM	Oxidation (M)	0	474020	473110	57684	111640	94224	0	0	0
ILDTLGLLR	SLC4A1AP; SLC4A1	Q9BWU0; A0A08	NADAP	HUM	Unmodified	832270	1294600	737830	0	0	0	0	0	0
ILDVASLEVLNEVNRR	GCN1	Q92616	GCN1	HUM	Unmodified	3680300	2298400	2711700	0	0	0	0	0	0
ILDVLEEIPK	NDUFA5; NDUFA5;	Q16718; A0A7Z	NDUA5	HUM	Unmodified	1031200	790220	685990	0	0	0	18709	11324	0
ILDVLEEIPKNAAYR	NDUFA5; NDUFA5;	Q16718; A0A7Z	NDUA5	HUM	Unmodified	555950	697200	808960	0	0	0	0	0	0
ILDVLEEIPKNAAYR	NDUFA5; NDUFA5;	Q16718; A0A7Z	NDUA5	HUM	Deamidation (N)	450850	600220	370120	0	0	0	0	0	0
ILDVMYSR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	5589500	5665000	6128000	0	0	0	0	0	0
ILEAHQNVAQMSLIEAK	FERMT2; FERMT2;	Q96AC1; H0YJB6	FERM2	HUM	Oxidation (M)	1498200	1245600	1506200	30621	0	18451	0	15861	0
ILEDDLK	ABCE1; ABCE1; AB	P61221; H0Y990;	ABCE1	HUM	Unmodified	986720	0	904010	0	0	0	0	0	0
ILEDNSIPQVK	PDHB	P11177	ODPB	HUM	Deamidation (N)	1430700	1445700	0	0	0	0	0	0	0
ILEDNSIPQVKDIIFAIK	PDHB	P11177	ODPB	HUM	Deamidation (N)	1765500	324400	1346600	0	0	0	0	0	0
ILEDNSIPQVKDIIFAIKK	PDHB	P11177	ODPB	HUM	Unmodified	3907000	3380300	3309200	0	0	0	0	0	0
ILEDNSIPQVKDIIFAIKK	PDHB	P11177	ODPB	HUM	Deamidation (N)	664630	479320	2990200	0	0	0	0	0	0
ILEDQEENPLPAALVQPHTGK	PGLS; PGLS	O95336; M0R1L2	6PGL	HUM	Unmodified	0	0	1324100	0	0	0	0	0	0
ILEDVVGVPEKK	TPX2	Q9ULW0	TPX2	HUM	Unmodified	888930	395470	565110	0	0	0	0	0	0
ILEEFRK	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15	HUM	Unmodified	539610	607960	1469600	0	0	0	0	0	0
ILEEPHPLMFQK	RGS10	O43665	RGS10	HUM	Oxidation (M)	828080	658610	641840	0	0	0	0	0	0
ILEFDRDFR	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D	HUM	Unmodified	2351100	1599400	1403400	25416	23316	0	0	0	0
ILEFFGLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	11562000	10292000	10837000	0	12647	0	35239	0	33314
ILEFFGLKKEECPAVR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	3537000	3744600	3569800	0	0	0	0	0	0
ILEFIAVSQLR	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Unmodified	1780900	0	0	0	0	0	0	0	0
ILEGLGPQVELPLYNQPSDTR	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5;	NCOR2	HUM	Unmodified	876160	693400	576160	0	0	0	0	0	0
ILELDQELIKAER	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Unmodified	672240	851880	730950	0	0	0	0	0	0
ILELDQFK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	22327000	19678000	11318000	409690	397070	429780	13711	17517	0
ILELDQFKGQGQGK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	12872000	17382000	16442000	797670	811520	710720	88738	66400	78708
ILELDQFKGQGQGKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	30811000	32636000	30007000	1501500	1494300	1504800	202900	171730	143180
ILELPYSIHAFQHLR	TTC17	Q96AE7	TTC17	HUM	Unmodified	830180	861090	681440	0	0	0	0	0	0
ILELSGSSSEDSEK	PRKDC	P78527	PRKDC	HUM	Unmodified	5854100	5412300	5068600	44046	0	176930	0	0	0
ILEMGITGPEGHALSRPEELEAEAVFR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Oxidation (M)	8068600	7871900	7900100	0	0	0	0	0	0
ILENEKDLEEAEEYK	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA	HUM	Deamidation (N)	1077000	702850	866700	0	0	0	0	0	0
ILENEKDLEEAEEYKEAR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA	HUM	Unmodified	24984000	24632000	23793000	611610	343190	630570	0	0	0
ILENEKDLEEAEEYKEAR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA	HUM	Deamidation (N)	59312000	43589000	47312000	617260	567990	362620	37888	0	0
ILEQEEEEEQAGKPGEPSK	SRRT	Q9BXP5	SRRT	HUM	Unmodified	1295300	1752400	1313200	49622	75138	71858	0	0	0
ILEQEEEEEQAGKPGEPSKK	SRRT	Q9BXP5	SRRT	HUM	Unmodified	1050900	1210600	1236300	0	0	52560	0	0	0
ILEQEEEEEQAGKPGEPSKKEEGR	SRRT	Q9BXP5	SRRT	HUM	Unmodified	7073400	6608300	4981700	255640	196660	250400	0	0	0
ILEQQNSSR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM	Deamidation (N)	7610900	8549700	7437400	702490	735910	892620	0	0	0
ILEQQNSSR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM	Unmodified	0	3036200	3707500	706260	629310	841200	0	24812	0
ILEQQNSSRTLEK	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM	Deamidation (N)	238610	278250	206460	0	0	0	0	0	0
ILESVAEGR	DDX41; DDX41; DD	Q9UJV9; A0A499	DDX41	HUM	Unmodified	600740	657400	1491900	79789	0	0	0	0	0
ILETTTFFQR	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	3647700	2426100	2801400	119910	117180	135480	0	0	0
ILEVHVDKGMK	DNAJA2	O60884	DNJA2	HUM	Oxidation (M)	863720	1130200	1028400	51379	40579	0	0	0	0
ILEVVKDK	COX5A; COX5A; CC	P20674; H3BRM5	COX5A	HUM	Unmodified	2745300	2701300	0	0	0	0	0	0	0
ILFAPGSEEAIER	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A	HUM	Unmodified	3475600	3488000	2616600	0	0	0	0	0	15309
ILFDGIPLEK	MMUT	P22033	MUTA	HUM	Unmodified	1402800	1052800	1453000	52565	66958	60410	0	0	0
ILFFNTPK	PSMD8; PSMD8; PSI	P48556; K7EJC1;	PSMD8	HUM	Unmodified	2471800	2880900	1557000	53636	41827	44719	0	0	0
ILFIFIDSDHTDNQR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	1051400	436130	605650	0	0	0	0	0	0
ILFLDPSGK	TXNDC12	O95881	TXD12	HUM	Unmodified	0	0	0	149910	169960	124250	0	0	0
ILFQEFR	MYH14; MYH14	Q7Z406; M0QY42	MYH14	HUM	Unmodified	2994200	1371700	1406200	0	0	15642	0	0	0
ILFTEATR	PSMD8; PSMD8; PSI	P48556; K7EJC1;	PSMD8	HUM	Unmodified	2914800	0	2835700	0	0	0	0	0	0
ILGADTSVDLEETGR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA	HUM	Unmodified	24980000	21758000	22851000	649410	634310	294440	131930	93958	79284
ILGDPEALRDLLNNHILK	TGFBI; TGFBI; TGFB	Q15582; H0Y8L3;	BGH3	HUM	Unmodified	278900	159300	302110	0	0	0	0	0	0
ILGDPEEESWSPSLTNLEK	CBX8	Q9HC52	CBX8	HUM	Unmodified	2239500	2356200	0	0	0	0	0	0	0
ILGGVISAISEAAAQYNPEPPPPR	CAPNS1; CAPNS1; C	P04632; A0A0C4I	CPNS1	HUM	Unmodified	1419000	167680	1154600	0	0	0	0	0	0
ILGIPVIVTEQVPK	ISOC1; ISOC1	Q96CN7; D6RGE	ISOC1	HUM	Unmodified	574880	678860	685800	0	0	0	0	0	0
ILGLAIESQDAGIK	SNAP23; SNAP23; S	O00161; H3BNE1	SNP23	HUM	Unmodified	986230	801500	901570	30968	16555	14467	0	0	0
ILGLGDLGVVGMGIPVGK	ME2; ME2; ME2; ME	P23368; A0A1W2	MAOM	HUM	Oxidation (M)	874870	879980	1269100	0	0	0	0	0	0
ILGLLDAYLK	EEF1G	P26641	EF1G	HUM	Unmodified	4666900	2791600	5374600	0	0	0	0	0	0
ILGLLDAYLKTR	EEF1G	P26641	EF1G	HUM	Unmodified	1344300	629890	1365500	0	0	0	0	0	0
ILGLLENF	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1	HUM	Unmodified	677330	452080	1965400	0	0	0	8476.3	0	0
ILGPAESDEFLAR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUM	Unmodified	3638200	1805700	1169100	21952	0	17020	0	0	0
ILGPGLNK	RPL10A	P62906	RL10A	HUM	Unmodified	9615400	8295600	10470000	0	0	80734	0	0	0
ILGPQGNTIK	KHDRBS1	Q07666	KHDR1	HUM	Unmodified	6863300	6849600	6047700	0	0	0	0	0	0
ILGPQGNTIK	KHDRBS1	Q07666	KHDR1	HUM	Deamidation (N)	9844000	6200700	6018300	54388	56393	92310	0	0	0
ILGRELGLPEELVSR	GMPS	P49915	GUAA	HUM	Unmodified	1743800	1903500	1548900	0	0	0	0	0	0
ILGSASPEEEQEKPILDRPTR	SZRD1	Q7Z422	SZRD1	HUM	Unmodified	8998500	6571000	8047400	692820	543210	614310	71126	95896	58844
ILGTAGTEEGQK	CRYZ; CRYZ; CRYZ	Q08257; A6NP24;	QOR	HUM	Unmodified	693350	645700	763240	0	0	0	0	0	0
ILGTPDYLAPELLLGR	MASTL; MASTL	Q96GX5; A0A087	GWL	HUM	Unmodified	249020	153920	0	0	0	0	0	0	0
ILGTQEITAR	EHBP1L1	Q8N3D4	EH1L1	HUM	Unmodified	681710	330460	690430	0	0	0	0	0	0
ILGVGGEDDDGEVHR	TP53I11; TP53I11; T	O14683; E9PMY0	P5I11	HUM	Unmodified	589900	525910	1118200	0	0	0	0	0	0
ILGVGPDDPDLVR	LSS; LSS	P48449; C9J315	LSS	HUM	Unmodified	1772400	1369900	978180	0	0	0	0	0	0
ILGVMQDIR	N/A	N/A	N/A		Oxidation (M)	12156000	24463000	22959000	53690	12401	33751	0	12449	0
ILHLLGQEGPK	COPG1	Q9Y678	COPG1	HUM	Unmodified	489740	826210	543520	0	0	0	0	0	0
ILHVNGFNGEGGEEDPQAAR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	2 Deamidation (N)	685950	896940	955600	178420	152550	180810	18562	18965	0
ILIAKPIMFR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2	HUM	Oxidation (M)	1435600	799580	1008000	0	0	0	0	0	0
ILIANTGMDTDK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Oxidation (M)	0	693650	539330	0	0	0	0	0	0
ILIANTGMDTDKIK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Oxidation (M);Deai	1901100	2578300	1767100	0	0	0	0	0	0
ILIANTGMDTDKIKIFGSR	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Oxidation (M)	2381500	1825100	1656600	0	0	0	0	0	0
ILIEDWK	PRKCSH; PRKCSH;	P14314; K7EPW7	GLU2B	HUM	Unmodified	2776400	2657900	2267400	19703	19074	0	0	0	0
ILIFSSR	BRIX1	Q8TDN6	BRX1	HUM	Unmodified	4514600	5310400	4814300	108790	113190	130160	0	9482.3	12397
ILIIGESGVGK	RAB18; RAB18; RAI	Q9NP72; A0A087	RAB18	HUM	Unmodified	4672300	3565100	2818300	61092	51712	62858	0	0	0
ILIQERYEK	SF3A1; SF3A1	Q15459; H7C1L2	SF3A1	HUM	Unmodified	841870	1045500	2423900	188110	142860	148460	0	0	0
ILIRPMYSNPPLNGAR	GOT2	P00505	AATM	HUM	Oxidation (M);Deai	8097800	5486600	6958000	100330	168970	49146	0	0	0
ILITTVPPNLR	ILF2; ILF2	Q12905; B4DY09	ILF2	HUM	Unmodified	4061300	4375900	4115400	77159	93430	69732	0	0	0
ILIWSGR	FAM162A; FAM162A	Q96A26; F8W7Q4	F162A	HUM	Unmodified	1740200	2600100	1519900	0	12900	15796	0	0	0
ILKEDILNYLEK	DBT; DBT; DBT; DB	P11182; A0A7P0	ODB2	HUM	Unmodified	2166700	1523300	1722600	0	0	0	0	0	0
ILKEEQELYQK	MYO6; MYO6; MYO	Q9UM54; A0A59	MYO6	HUM	Unmodified	592510	810610	675280	145160	114090	131500	0	0	0
ILKHGAKDKDD	MYL12A; MYL12B;	P19105; O14950;	ML12A	HUM	Unmodified	0	0	0	0	0	0	637760	4094800	282810
ILKLPSFELLHKEMLGGEIIPR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Oxidation (M)	3344900	0	2207700	0	0	0	0	0	0
ILKPTDENLLK	MRPL15; MRPL15	Q9P015; E5RIZ4	RM15	HUM	Unmodified	1467100	1483900	1479300	53893	84880	73884	0	0	0
ILLAELEQLK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Unmodified	3588500	3221600	3938100	98475	109740	68121	99272	98648	85074
ILLAELEQLKGQGK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Unmodified	39469000	50953000	43442000	876860	443940	223390	157820	56682	43439
ILLAELEQLKGQGK	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	Methyl (KR)	454930	476620	444360	10187	0	0	0	0	0
ILLAEVPTMAVEK	POLR1C; POLR1C; I	O15160; A0A2R8	RPAC1	HUM	Oxidation (M)	3516900	5278300	3560600	65573	56140	49401	0	16599	0
ILLAVNGKVFDVTK	PGRMC2	O15173	PGRC2	HUM	Deamidation (N)	3890100	2576100	2778100	0	0	0	0	0	0
ILLDAQHESGR	BNIP3; BNIP3; BNIP	Q12983; F6RP06;	BNIP3	HUM	Unmodified	2504800	1860700	2502500	0	0	0	0	0	0
ILLEPYKYLLQLPGK	GGPS1; TBCE; GGPS	O95749; A0A2R8	GGPPS	HUM	Unmodified	0	755310	439020	0	0	0	0	0	0
ILLGGYQSR	CDC5L	Q99459	CDC5L	HUM	Unmodified	2739900	2446000	2464600	0	59964	77242	0	0	0
ILLLEAGPK	COQ6; COQ6; COQ6	Q9Y2Z9; G3V434	COQ6	HUM	Unmodified	0	0	6368300000	55331	81402	0	0	18120	9777.1
ILLLFGETELSPTATPR	NFATC2IP; NFATC2	Q8NCF5; H3BSZ7	NF2IP	HUM	Unmodified	1083200	597980	776700	0	0	0	0	0	0
ILLLGEAQVGK	RHOT2; RHOT2; RH	Q8IXI1; H3BMP9	MIRO2	HUM	Unmodified	1564800	1218100	1525100	51988	38549	38771	0	0	0
ILLLGLDNAGKTTLLK	ARL3	P36405	ARL3	HUM	Deamidation (N)	564630	354160	449690	0	0	0	0	0	0
ILLNPVQVFDVTK	DGKE; DGKE	P52429; I3L112	DGKE	HUM	Unmodified	496560	555960	437020	0	0	0	0	0	0
ILLPEPSIR	GRK2; GRK2	P25098; E9PRV7	ARBK1	HUM	Unmodified	574690	966700	0	29864	31811	37006	0	0	0
ILLQGTPVAQMTEDAVDAER	C3	P01024	CO3	HUM	Oxidation (M)	5217200	15686000	5722100	194460	0	120950	90453	70605	52779
ILLQGTPVAQMTEDAVDAERLK	C3	P01024	CO3	HUM	Oxidation (M)	2853600	2694900	2559700	0	0	0	0	0	0
ILLQSKNAGAVIGK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Deamidation (N)	68823000	61249000	78487000	879550	989680	858300	88181	112140	21763
ILLQSKNAGAVIGK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Methyl (KR);Deam	977540	1114200	948050	0	0	0	0	0	0
ILLQSKNAGAVIGK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Unmodified	1559100	1485100	2081300	11415	0	0	0	0	0
ILLQSKNAGAVIGKGGK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Deamidation (N)	3143600	4364000	3502500	69548	51239	66244	0	22466	0
ILLSQTTGVAIPLHASSLDDVSLASTPK	TPR	P12270	TPR	HUM	Unmodified	722390	0	0	0	0	0	0	0	0
ILLSSGRDASLMVTNDGATILK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Oxidation (M);Deai	787730	437710	0	0	0	0	0	0	0
ILLTEPPMNPTK	ACTR2; ACTR2	P61160; F5H6T1	ARP2	HUM	Oxidation (M)	696900	0	0	34254	0	0	0	0	0
ILLTNIR	COASY; COASY; CC	Q13057; K7EN91;	COASY	HUM	Unmodified	1036600	722840	1158400	0	0	17888	0	0	0
ILLTPPEHLERTDITK	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	652800	679900	715260	0	0	0	0	0	0
ILLTQENPFFR	NSUN2	Q08J23	NSUN2	HUM	Unmodified	9113400	11397000	6757200	27941	25969	0	0	0	0
ILLVGEPR	RHOT1; RHOT1	Q8IXI2; J3KSR5	MIRO1	HUM	Unmodified	5312000	4299600	5047600	523250	517430	461010	69353	20266	0
ILLWDTR	WDR77; DPH7; WDR	Q9BQA1; Q9BTV	MEP50	HUM	Unmodified	1550800	432010	831260	0	0	17744	0	0	0
ILMAAPGMAIPPFIMNTLEK	SFXN1	Q9H9B4	SFXN1	HUM	3 Oxidation (M)	1066100	0	0	0	0	0	0	0	0
ILMAIDSELVDRDVVHTSEEAR	XPOT; XPOT	O43592; F8WDU6	XPOT	HUM	Oxidation (M)	625870	609230	447140	0	0	0	0	0	0
ILMAINGK	PGRMC1	O00264	PGRC1	HUM	Oxidation (M);Deai	4306400	4353100	3321300	22685	0	25536	0	0	0
ILMAINGKVFDVTK	PGRMC1	O00264	PGRC1	HUM	Oxidation (M);Deai	5383700	2780900	4215200	162790	108100	70464	37574	19521	34742
ILMDKPEMNVVLK	NPEPPS; NPEPPS; N	P55786; A0A7Z	PSA	HUM	2 Oxidation (M)	3045800	2701300	3199300	102480	98711	138330	0	0	0
ILMEFNK	SMC3	Q9UQE7	SMC3	HUM	Oxidation (M)	1459100	1502900	0	0	0	0	0	0	0
ILMGSTLR	PRKAR1B; PRKAR1	P31321; P10644; I	KAP1	HUM	Oxidation (M)	6617800	6335200	5418900	80019	86873	104730	11111	8514.7	0
ILMVGLDAAGK	ARF4; ARF5; ARF3;	P18085; P84085; I	ARF4	HUM	Oxidation (M)	4732400	4372100	4156300	149280	167740	160610	26866	21963	21525
ILNDDTALKEYK	RAD23B; RAD23B; I	P54727; Q5W0S4;	RD23B	HUM	Unmodified	1365000	0	0	0	0	0	0	0	0
ILNDDTALKEYK	RAD23B; RAD23B; I	P54727; Q5W0S4;	RD23B	HUM	Deamidation (N)	0	941960	1262900	0	0	0	0	0	0

ILNDVQDR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Deamidation (N)	1245900	3524300	0	57534	36793	0	0	0	0
ILNDVQDR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Unmodified	1117100	1201100	682740	200570	0	0	16454	0	0
ILNEPLKHSDFFNVK	MRPS2; MRPS2	Q9Y399; Q5T8A0	RT02_HUMA	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
ILNIFGVIK	TFRC; TFRC	P02786; G3V0E5	TFR1_HUMA	Unmodified	276830	468000	388560	33008	0	30042	40168	36861	0
ILNLSGNELK	NXF1; NXF1; NXF1	Q9UBU9; E9PIN3	NXF1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
ILNNSGLPITSAIDLEDAAK	SUCLG2; SUCLG2	Q96I99; H0Y852	SUCB2_HUM	Deamidation (N)	238530	129340	213700	0	0	0	0	0	0
ILNNSGLPITSAIDLEDAAK	SUCLG2; SUCLG2	Q96I99; H0Y852	SUCB2_HUM	2 Deamidation (N)	78684	212740	345900	0	0	0	0	0	0
ILNNSGLPITSAIDLEDAAKK	SUCLG2; SUCLG2	Q96I99; H0Y852	SUCB2_HUM	Deamidation (N)	387890	718640	189690	0	0	0	0	0	0
ILNPEEIEK	PSMA7; PSMA7	O14818; H0Y586	PSA7_HUMA	Unmodified	2538400	2614000	2769400	27826	0	39513	0	0	0
ILNPLLDR	PKP3	Q9Y446	PKP3_HUMA	Unmodified	783670	0	823760	0	0	0	0	0	0
ILNPYNLFLSGDSLR	KDM5B; KDM5B; KI	Q9UGL1; A0A3B	KDM5B_HUM	Unmodified	1811300	1171400	218880	0	0	0	0	0	0
ILNPDILK	CBS; CBSL; CBS	P35520; P0DN79;	CBS_HUMAN	Unmodified	0	0	675990	0	0	0	0	0	0
ILNPDMLQQR	TGIF2LX; TGIF2LY	Q8IUE1; Q8IUE0	TF2LX_HUM	Oxidation (M)	2511800	1190200	3263400	0	101030	81137	0	0	0
ILNPDSGGVAK	CNOT1	A5YKK6	CNOT1_HUM	Unmodified	1539900	882750	1411100	47647	47334	44046	0	0	0
ILNPEAHQR	VARS1; VARS1	P26640; A0A140T	SYVC_HUMA	Unmodified	1164100	1243400	0	267560	333280	303110	0	0	0
ILNPEYLSNWTMEK	AIFM1; AIFM1; AIFN	O95831; E9PMA0	AIFM1_HUM	Oxidation (M);Dea	313080	333320	130460	0	0	0	0	0	0
ILNPEYLSNWTMEK	AIFM1; AIFM1; AIFN	O95831; E9PMA0	AIFM1_HUM	Oxidation (M)	1390100	1084900	0	0	0	0	0	0	0
ILNPFLSTEQAADILMTTAR	PATL1	Q86TB9	PATL1_HUM	Oxidation (M)	1253900	877510	1305400	0	0	0	0	0	0
ILNPMFPSLYR	PPP2R5C; PPP2R5C;	Q13362; Q96B13;	2A5G_HUMA	Oxidation (M)	729450	846650	842880	0	0	0	0	0	0
ILNPPEKEGGLPR	ATP2B4; ATP2B1; A	P23634; P20020;	AT2B4_HUM	Unmodified	885760	747740	904890	147870	107150	161400	0	0	16587
ILNPVFDEPPNPTNVEESLK	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	Unmodified	1337000	1734300	1563700	0	0	0	0	0	0
ILNPVFDEPPNPTNVEESLKR	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	Unmodified	16065000	16250000	9759300	80072	39297	0	13381	0	0
ILNPVLGSQTGKI	DUSP12	Q9UNI6	DUS12_HUM	Unmodified	874900	693620	674740	18554	13575	13799	0	0	0
ILNPVSAIR	PLCB3	Q01970	PLCB3_HUM	Unmodified	947390	810830	772130	36437	30835	39823	0	0	0
ILNPWSTFR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1_HUMA	Unmodified	2394700	3139800	1536700	46319	46109	42405	0	0	0
ILQAVNFPFLVK	PRKACA; PRKACA;	P17612; A0A7I2V	KAPCA_HUM	Unmodified	1827700	1769700	1553900	0	0	0	0	0	0
ILQAVNFPFLVR	PRKACB; PRKACB;	P22694; B1APG0;	KAPCB_HUM	Unmodified	1995300	2082000	2382700	0	0	0	0	0	0
ILQDDLTCR	LRP1	Q07954	LRP1_HUMA	Unmodified	0	0	0	373350	51413	81444	0	0	0
ILQDGGLQVVEK	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Unmodified	896140	1323500	815360	32522	41574	48955	0	0	0
ILQDIASGSHPFSQVLK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	2608800	3244300	2836200	0	0	0	0	0	0
ILQDIASGSHPFSQVLKEAK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Unmodified	534380	287110	0	0	0	0	0	0	0
ILQDVADEEIAALPR	MRPS14	O60783	RT14_HUMA	Unmodified	0	0	1081200	0	0	0	0	0	0
ILQEAQNLMALTNVDTPLK	CDC5L	Q99459	CDC5L_HUM	Oxidation (M)	2072400	1789900	2104600	0	0	0	0	0	0
ILQEDPTNTAAR	EMC2; EMC2	Q15006; H0YAS9	EMC2_HUM	Unmodified	1586500	1341200	1249000	0	36173	0	0	0	0
ILQEGVDPK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	18446000	19358000	21149000	538130	630210	571600	0	0	0
ILQEHEQIK	EIF3A	Q14152	EIF3A_HUM	Unmodified	498280	538760	543800	0	0	0	0	0	0
ILQEKLDQPVSAPPSPR	CCDC6	Q16204	CCDC6_HUM	Unmodified	3378600	3563200	3782800	193840	156920	165310	0	0	0
ILQGAPEILDR	PRUNE1; PRUNE1	Q86TP1; A0A3B3	PRUN1_HUM	Unmodified	533960	582890	367500	0	0	0	0	0	0
ILQLKESRQEEMNSQQEEEEMETDAR	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2_HUM	2 Oxidation (M);De	0	2764300	2070300	0	0	0	0	0	0
ILQNEPLPER	STAU1; STAU1; STA	O95793; Q5JW30;	STAU1_HUM	Unmodified	940310	1273600	963860	40020	0	0	0	0	0
ILQVSFK	ELAVL1	Q15717	ELAV1_HUM	Unmodified	4802600	5044100	4298200	37476	28619	29899	0	0	0
ILREFLGKSEPEHQH	ABHD12; ABHD12;	Q8N2K0; A0A5F9	ABD12_HUM	Unmodified	355120	410710	1228200	0	0	0	0	0	0
ILRPWQSSETR	SF1; SF1	Q15637; A0A7P0	SF01_HUMA	Unmodified	1958500	1778400	1682200	0	27403	0	0	0	0
ILSAENIPNLPPGGGLAGKR	PPM1B; N/A; PPM1E	O75688; A0A3B3	PPM1B_HUM	Unmodified	1468600	1000400	1773100	0	0	0	0	0	0
ILSCGELIPK	PPIG; PPIG; PPIG; PI	Q13427; A0A7I2V	PPIG_HUMA	Unmodified	670120	745930	488280	45380	0	51062	0	0	0
ILSDDVPIRDYR	RAD23A; RAD23A; I	P54725; A0A494C	RD23A_HUM	Unmodified	3072000	3040200	3210700	0	42744	30381	0	0	0
ILSDDVPIRDYRIDEK	RAD23A; RAD23A; I	P54725; A0A494C	RD23A_HUM	Unmodified	1421500	1390600	0	0	0	0	0	0	0
ILSEEPR	UNK	Q9C0B0	UNK_HUMA	Unmodified	413300	1100900	0	0	0	0	0	0	0
ILSFVYPIR	SLC27A4	Q6P1M0	S27A4_HUM	Unmodified	1907600	2126700	1611000	14149	7366.5	0	0	0	5787.3
ILSGPFVQK	GART; GART	P22102; A0A140T	PUR2_HUMA	Unmodified	1265300	866190	792610	0	0	0	0	0	0
ILSGVVTK	RPS11; RPS11	P62280; M0QZC5	RS11_HUMA	Unmodified	1657700	1306400	1073900	43962	39592	52953	0	0	0
ILSISADIETIGEILKK	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Unmodified	2435600	292850	1359300	0	0	0	0	0	0
ILSKPIEVQVGGR	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Unmodified	3440100	2790200	3422600	0	0	0	0	0	0
ILSLLEGQK	ALDH3A2; ALDH3A	P51648; A0A5F9	AL3A2_HUM	Unmodified	3164600	2282400	2535300	0	0	0	0	0	0
ILSLQASPTQK	TAF4B; TAF4B	Q92750; J3KTH2	TAF4B_HUM	Unmodified	4827100	6385200	6084300	0	0	0	0	0	0
ILSSDDYGKDLTSVMR	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	5209600	3394000	4226600	343290	505520	308380	0	0	0
ILSTIDRELLKPNASVALHK	PSMC4	P43686	PRS6B_HUM	Unmodified	1106500	1104600	1905000	0	0	0	0	0	0
ILSTIDRELLKPNASVALHK	PSMC4	P43686	PRS6B_HUM	Deamidation (N)	0	786860	710350	0	0	0	0	0	0
ILSTSTIGPEGVHQK	PALM2; PALM2AK/	Q8IXS6; B1ALY0	PALM2_HUM	Unmodified	1474300	1193600	1162300	0	0	0	0	0	0
ILSVELPK	GINS3	Q9BRX5	PSF3_HUMA	Unmodified	1534800	1522500	1312300	0	0	0	0	0	0
ILSVELPKIYQEGWR	GINS3	Q9BRX5	PSF3_HUMA	Unmodified	458960	301010	0	0	0	0	0	0	0
ILTDSIQR	ERMP1; ERMP1; ER	Q7Z2K6; A0A0C4	ERMP1_HUM	Unmodified	2310500	2927000	2158000	0	0	0	0	0	0
ILTDYGFEGHPFR	NDUFS3	O75489	NDUS3_HUM	Unmodified	2904300	1963800	2348900	25427	0	17861	0	10392	0
ILTDYGFEGHPFRK	NDUFS3	O75489	NDUS3_HUM	Unmodified	667440	499630	862080	0	0	0	0	0	0
ILTERGYSFTTTAER	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUM	Unmodified	6886500	4466900	5094400	20981	11319	0	0	8534.5	0
ILTFDQALDSPK	RPL18; RPL18; RPL	Q07020; F8VUA6	RL18_HUMA	Unmodified	1762700	1596900	1361300	0	0	0	0	0	0
ILTFLESTYIPPSYISEMEK	NUP210	Q8TEM1	PO210_HUM	Oxidation (M)	1019400	608120	535490	0	0	0	0	0	0
ILTFQGSK	NRCAM; NRCAM; N	Q92823; C9JYY6;	NRCAM_HUM	Unmodified	1069500	1257200	1370100	22193	0	22364	0	0	0
ILTGGADKNVVVFDK	PRPF19	Q9UMS4	PRP19_HUM	Unmodified	1104800	1174300	1311800	16492	15533	0	0	0	0
ILTGTDAPK	SMARCA4; SMARC;	P51532; A0A2R8	SMCA4_HUM	Unmodified	515960	833560	509290	83207	0	0	0	0	0
ILTHVAEMQGK	SUN2	Q9UH99	SUN2_HUMA	Oxidation (M)	2778400	2569400	2333600	0	82851	0	0	0	0
ILTLESMNPQVK	GPT2	Q8TD30	ALAT2_HUM	Oxidation (M)	2843200	2734800	1972600	104930	88675	74535	0	0	0
ILTLSQIGR	PSMD5	Q16401	PSMD5_HUM	Unmodified	4598200	4016900	3568800	32256	28948	33535	0	0	0
ILTNFTGVMPPQFKK	CNOT1	A5YKK6	CNOT1_HUM	Oxidation (M)	0	0	482760	0	0	0	0	0	0
ILTPIIFKEENLR	MRPS22; MRPS22; N	P82650; A0A7P0	RT22_HUMA	Unmodified	4104900	4188400	1259200	17524	13953	0	0	0	0
ILTPLVSLDTPGK	GLOD4; GLOD4; GL	Q9HC38; I3L1I0;	GLOD4_HUM	Unmodified	930190	1709100	1706800	0	13152	0	0	0	0
ILTTEGRNALIHK	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	2497300	2669800	4645900	53554	36889	51002	0	0	0
ILTTGFSR	CORO1A; CORO1A;	P31146; H3BRY3	COR1A_HUM	Unmodified	7358700	7245200	9136800	0	0	0	0	0	0
ILVAEGTR	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2_HUMA	Unmodified	4012500	3695500	3708000	87337	86795	80077	0	0	0
ILVATNLFGR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Unmodified	116840000	97963000	83987000	484880	451680	428880	102950	126620	102730
ILVATNLFGR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Deamidation (N)	6534900	6969800	8034800	40879	14487	11912	0	0	0
ILVATNLFGRGMDIER	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Oxidation (M)	3464700	3581500	0	22014	0	0	0	0	0
ILVATNLFGRGMDIER	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	Oxidation (M);Dea	1992800	0	2512700	0	0	0	0	0	0
ILVDQVTGISR	ELAVL2; ELAVL2; I	Q12926; A0A0A0	ELAV2_HUM	Unmodified	1849600	2114800	1975600	0	0	0	0	0	0
ILVDQVTGVSR	ELAVL3; ELAVL4; I	Q14576; P26378;	ELAV3_HUM	Unmodified	6827700	5912200	5783800	0	0	0	0	0	0
ILVDVEK	PYGB	P11216	PYGB_HUMA	Unmodified	4782700	6016700	3745800	67217	0	103810	0	0	0
ILVGNKNDDPER	RAB35; RAB35	Q15286; F5H157	RAB35_HUM	Deamidation (N)	495260	799050	638640	62073	41947	37909	0	0	0
ILVGTNLVR	VPS35	Q96QK1	VPS35_HUM	Unmodified	8264600	8473200	8282400	93773	79155	0	13569	12098	0
ILVPEGTR	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2_HUMA	Unmodified	7292600	6825500	7866500	0	242350	0	0	0	0
ILVQERLTQDAVAK	RTRAF; RTRAF; RTI	Q9Y224; G3V4C6	RTRAF_HUM	Unmodified	818560	896390	849790	0	0	0	0	0	0
ILVTGGSGLVGK	GFUS; GFUS; GFUS;	Q13630; E9PKL9;	FCL_HUMAN	Unmodified	13657000	11816000	12260000	275600	262070	273910	0	26178	0
ILYDILAFAK	DNAJC10; DNAJC10	Q8IXB1; A0A7P0	DJC10_HUM	Unmodified	601770	553710	0	0	0	0	0	0	0
ILYEGTHLDPER	COX20	Q5RI15	COX20_HUM	Unmodified	1992800	2653500	0	0	0	0	0	0	0
ILYESQR	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA_HUM	Unmodified	1746900	2237400	2073700	0	118260	108770	19959	0	0
ILYPEIPR	PNKP; PNKP; PNKP;	Q96T60; M0QYI1	PNKP_HUMA	Unmodified	1952000	1515600	1760000	0	0	0	0	0	0
ILYSQCGDVMR	MYL6B; MYL6; MY	P14649; P60660;	MYL6B_HUM	Oxidation (M)	4752100	5266600	4289300	189070	256900	330380	0	233300	158960
IMADIRAQYDELAR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Oxidation (M)	2008600	0	2347400	275670	112610	0	76386	44610	46842
IMALDIDER	AQR	O60306	AQR_HUMA	Oxidation (M)	408180	409280	447990	0	0	0	0	0	0
IMAQIER	SMARCA1; SMARC;	P28370; O60264;	SMCA1_HUM	Oxidation (M)	0	0	2135200	0	0	0	0	0	0
IMATPEQVGK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Oxidation (M)	8850500	7294300	9140600	0	0	0	0	0	0
IMDLLGDQVK	MAOA	P21397	AOFA_HUMA	Oxidation (M)	14831000	13917000	13959000	133000	40508	97700	0	0	0
IMDPNIVGSEHYDVAR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB_HUMA	Oxidation (M)	116900000	121630000	93672000	1614900	1442300	1802900	76295	120620	100550
IMDPNIVGSEHYDVAR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB_HUMA	Oxidation (M);Dea	5713600	3342900	5528400	81856	0	0	0	0	0
IMDPNIVGSEHYDVARGVQK	ATP5F1B	P06576	ATPB_HUMA	Oxidation (M)	3158600	0	2271800	0	0	0	0	0	0
IMDPYKASYGVEDPEYAVTQLAQTTMR	STOML2; STOML2	Q9UJZ1; A0A087	STML2_HUM	2 Oxidation (M)	2864500	0	4318900	0	0	0	0	0	0
IMDYIR	XRN2	Q9H0D6	XRN2_HUMA	Oxidation (M)	0	0	642930	0	0	20906	0	0	0
IMEGPAFNFLDAPAVR	PDHB	P11177	ODPB_HUMA	Oxidation (M);Dea	16522000	20871000	16341000	93032	114270	76593	38951	14873	33245
IMEGPAFNFLDAPAVR	PDHB	P11177	ODPB_HUMA	Oxidation (M)	37360000	27001000	34696000	328350	88913	202430	109400	26846	86781
IMELEGR	GOLM1; GOLM1; GO	Q8NBJ4; F8WAT9	GOLM1_HUM	Oxidation (M)	1030200	870630	0	41522	48994	0	0	0	0
IMEQMLK	NBEAL1	Q6ZS30	NBEL1_HUM	2 Oxidation (M)	0	0	185800	0	0	0	0	0	0
IMESLPQIQR	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
IMEVIDAITTTAQSHQR	PFKL	P17858	PFKAL_HUM	Oxidation (M)	5546100	4606100	5271900	0	0	0	0	0	0
IMFEVQDLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	4419500	3132600	3408000	79641	85675	72790	0	0	0
IMFVDPSLTVR	AGR3; AGR2; AGR3	Q8TD06; O95994;	AGR3_HUMA	Oxidation (M)	582790	567950	550010	478260	487150	450130	602380	563930	577770
IMGIPEEEQMGLLR	MYH9	P35579	MYH9_HUM	2 Oxidation (M)	4650900	2818200	2339300	0	0	0	0	0	0
IMGKILDQGEDFPASEMTR	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	2 Oxidation (M)	863990	1118500	0	62817	41822	44444	0	0	0
IMGKILDQGEDFPASEMTR	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	2 Oxidation (M);M	1805200	1892400	1510300	36277	31977	25834	0	0	0
IMGPNYTPGK	EEF2	P13639	EF2_HUMAN	Oxidation (M)	2301200	1855900	1187200	0	0	0	0	0	0
IMGPNYTPGKK	EEF2	P13639	EF2_HUMAN	Oxidation (M)	1489900	1221900	1403600	0	0	0	0	0	0
IMGPNYTPGKKEDLYLKPIQR	EEF2	P13639	EF2_HUMAN	Oxidation (M)	13571000	8879600	8204000	0	143630	0	0	0	0
IMGPNYTPGKKEDLYLKPIQR	EEF2	P13639	EF2_HUMAN	Oxidation (M);Dea	5925100	6106200	6056300	63029	0	0	0	0	0
IMHQPSGGAR	CLPP; CLPP; CLPP	Q16740; A0A2R8	CLPP_HUMA	Oxidation (M)	1187000	822660	619900	0	0	0	0	0	0
IMIPLKISPLQ	NIPSNAP1	Q9BPW8	NIPS1_HUMA	Oxidation (M)	0	0	2098100	0	201630	0	0	96220	0
IMIPLKTSPLQ	NIPSNAP2	O75323	NIPS2_HUMA	Oxidation (M)	5720900	0	0	833520	718800	809740	241860	238860	0
IMISDFGLSK	CAMK1; CAMK1D; (	Q14012; Q8IU85;	KCC1A_HUM	Oxidation (M)	522360	734990	527980	10068	0	0	0	0	0
IMKAQALRDNSTMGYMAAK	HSP90AA1	P07900	HS90A_HUM	3 Oxidation (M);De	4575500	5876700	6604600	192610	110610	177710	25511	0	0
IMKAQALRDNSTMGYMMAK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	4 Oxidation (M);De	2140800	3838300	5089600	153360	161740	99738	0	0	0
IMKAQAYQTGKDISTNYYASQK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Oxidation (M)	2503200	2766200	1599000	118690	85523	90383	0	0	0
IMKAQAYQTGKDISTNYYASQKK	HSP90B1; HSP90B1;	P14625; H0YIV0;	ENPL_HUMA	Oxidation (M);Dea	731460	929430	668260	0	0	0	0	0	0
IMLFTGGPPTQGPGMVVGDELKIPIR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	2 Oxidation (M)	13322000	6689700	10625000	0	0	0	0	0	0
IMLFTNEDNPHGNDSAK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Oxidation (M)	2483700	2192400	2918300	187010	234870	293830	0	0	0
IMLFTNEDNPHGNDSAK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Oxidation (M);2 De	11486000	8986700	11150000	458890	328810	440390	0	0	8143.5

IMLFTNEDNPHGNDSAK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Oxidation (M);Deai	6825300	10165000	7921400	344350	361900	364160	0	0	0
IMLFTNEDNPHGNDSAKASR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Oxidation (M);2 De	751950	0	0	128480	275900	0	0	0	0
IMLFTNEDNPHGNDSAKASR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Oxidation (M);Deai	1986600	1772600	1813900	268140	282130	285900	0	0	0
IMLKGDNITLLQSVSN	SNRPE; SNRPE	P62304; A6NHK2	RUXE	HUM	Oxidation (M)	17911000	10716000	14324000	0	0	0	0	0	14329
IMLKGDNITLLQSVSN	SNRPE; SNRPE	P62304; A6NHK2	RUXE	HUM	Oxidation (M);Metl	1587800	1145700	1278300	0	0	0	0	0	0
IMLKGDNITLLQSVSN	SNRPE; SNRPE	P62304; A6NHK2	RUXE	HUM	Oxidation (M);Deai	745080	612910	450910	0	0	0	0	0	0
IMLPGVLR	DKC1; DKC1	O60832; H7C2Q2	DKC1	HUM	Oxidation (M)	1150600	1088500	1194300	0	0	0	0	0	0
IMLPWDPTGK	RPS3; RPS3; RPS3; F	P23396; E9PSF4;	RS3	HUMAN	Oxidation (M)	2990700	1383300	3111100	33657	40708	37196	0	0	0
IMLTTPQQIQLNPLQPVPVVKPAVLPGTK	TAF4; TAF4; TAF4	O00268; V9GY14	TAF4	HUM	Oxidation (M)	717260	472510	575140	0	0	0	0	0	0
IMLVEPPVAK	SON	P18583	SON	HUMAN	Oxidation (M)	1867100	0	679180	0	0	35422	0	0	0
IMMEFER	CHMP2A; CHMP2A;	O43633; M0R1T5	CHM2A	HUM	2 Oxidation (M)	1132200	1218800	996000	75982	60363	76130	0	0	0
IMNTFSVMPSPK	TUBB2A; TUBB2B; '	Q13885; Q9BVA1	TBB2A	HUM	2 Oxidation (M)	2399800	2781400	2632900	0	0	0	0	0	0
IMNTFSVMPSPK	TUBB2A; TUBB2B; '	Q13885; Q9BVA1	TBB2A	HUM	2 Oxidation (M);De	3203400	2535500	3733000	0	0	50174	0	0	0
IMNTFSVVPSPK	TUBB4A; TUBB; TU	P04350; P07437; (	TBB4A	HUM	Oxidation (M)	55057000	46496000	51205000	630740	576390	608760	14792	25381	39288
IMNTFSVVPSPK	TUBB4A; TUBB; TU	P04350; P07437; (	TBB4A	HUM	Oxidation (M);Metl	1133300	590190	693660	0	0	0	0	0	0
IMNTFSVVPSPK	TUBB4A; TUBB; TU	P04350; P07437; (	TBB4A	HUM	Oxidation (M);Deai	56927000	48004000	50830000	646850	634020	803730	45990	30603	23516
IMNVIGEPIDER	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M)	11730000	13010000	11793000	671080	745290	1202600	0	0	0
IMNVIGEPIDER	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M);Deai	595040	2811200	799140	209930	173960	189020	0	0	0
IMNVIGEPIDERGPIK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M)	18184000	18004000	16848000	340160	491310	338150	0	31129	35088
IMNVIGEPIDERGPIK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M);Deai	3813800	3045100	1546500	62485	81000	24172	0	0	0
IMNVIGEPIDERGPIKTK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M)	20320000	19284000	20190000	652730	645230	792140	223710	86770	137490
IMNVIGEPIDERGPIKTK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M);Metl	2120200	1742200	1634500	83750	0	0	0	0	0
IMNVIGEPIDERGPIKTK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB	HUM	Oxidation (M);Deai	2617400	2567000	4614800	0	205130	0	0	0	0
IMPDSAKNLNINCNNILR	PLCE1; PLCE1	Q9P212; A0A6Q8	PLCE1	HUM	Oxidation (M);4 De	0	848040	577410	573120	455100	378770	385040	724020	570440
IMPGNPMLLVTK	N/A	N/A	N/A		2 Oxidation (M);De	0	1097600	708300	0	0	0	0	0	0
IMPHTEAR	ACSF2; ACSF2	Q96CM8; E9PF16	ACSF2	HUM	Oxidation (M)	312120	229010	289880	98784	67880	72476	22682	16162	26556
IMPLPAGGPSISQGLPASR	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1	HUM	Oxidation (M)	0	0	1278800	0	30554	0	0	0	0
IMQEEGQPLKLPDTK	CCDC47; CCDC47	Q96A33; A0A087	CCD47	HUM	Oxidation (M)	706650	562530	547550	45039	52658	54781	0	0	0
IMQIHSR	PSMC3; PSMC3; PSI	P17980; E9PM69;	PRS6A	HUM	Oxidation (M)	0	0	2121100	0	0	0	0	0	0
IMQSSSEVGYDAMAGDFVNMVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	3 Oxidation (M);De	10417000	10213000	10256000	0	0	0	0	0	0
IMQSSSEVGYDAMAGDFVNMVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	3 Oxidation (M)	10079000	9789400	9536300	98249	0	0	0	0	0
IMQSSSEVGYDAMAGDFVNMVEKGIIDPTK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	3 Oxidation (M);De	0	1062300	1033000	0	0	0	0	0	0
IMQSSSEVGYDAMAGDFVNMVEKGIIDPTKVVR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	3 Oxidation (M);De	0	1098200	2660900	0	0	0	0	0	0
IMQVNGWDMTMVTHDQAR	TAX1BP3	O14907	TX1B3	HUM	3 Oxidation (M);De	0	0	1841800	0	0	0	0	0	0
IMRPDDANVAGNVHGGTILK	ACOT7	O00154	BACH	HUM	Oxidation (M)	4491400	3403700	2683000	0	0	0	0	0	0
IMSIVDPNR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1	HUM	Oxidation (M)	2095700	1682500	1925900	0	56274	32619	0	0	0
IMSQSQVSK	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Oxidation (M)	876600	781180	960990	0	0	0	0	0	0
IMSSPLSK	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26	HUMA	Oxidation (M)	781360	608180	503510	0	0	0	0	0	0
IMVANIEEVLQR	SEC22B; SEC22B	O75396; A0A087	SC22B	HUM	Oxidation (M)	4950800	7686000	7644600	9785.1	0	17887	0	0	0
IMVANIEEVLQRGEALSALDSK	SEC22B	O75396	SC22B	HUM	Oxidation (M)	4999000	949880	1855100	0	0	0	0	0	0
IMVQSASPDIR	KIF13B	Q9NQT8	KI13B	HUM	Oxidation (M)	250370	0	0	0	44866	66277	0	0	0
IMVSRSETDLLDIR	ANXA11; ANXA11	P50995; H0Y6E1	ANX11	HUM	Oxidation (M)	594130	600480	692380	0	0	0	0	0	0
IMWSQRDPSLR	PABPC4; PABPC1; F	Q13310; P11940;	PABP4	HUM	Oxidation (M)	4130800	0	3964800	0	0	0	0	8962.4	0
IMYDLTSKPPGTTEWE	GMPS	P49915	GUAA	HUM	Oxidation (M)	0	4230700	4834000	0	0	0	0	0	0
IMYTVFEHTFHVR	GARS1; GARS1; GAI	P41250; A0A6Q8I	GARS	HUM	Oxidation (M)	2177200	799390	1509200	0	0	0	0	0	0
INAAEIESR	PTPN11; PTPN11	Q06124; H0YF12	PTN11	HUM	Unmodified	5132600	5741500	5410400	119340	81330	155190	0	0	0
INAELLFRPTALSTPSFSSPK	MORC3	Q14149	MORC3	HUM	Deamidation (N)	503340	558720	499980	0	0	0	0	0	0
INAELLFRPTALSTPSFSSPK	MORC3	Q14149	MORC3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
INAGMLAQFIDKPVCFVGR	RPA3	P35244	RFA3	HUM	Oxidation (M)	500530	0	264440	0	0	0	0	0	0
INAGMLAQFIDKPVCFVGR	RPA3	P35244	RFA3	HUM	Oxidation (M);Deai	369450	119110	157640	0	0	0	0	0	0
INALTAASEAACLIVSVDETIKNPR	CCT7	Q99832	TCPH	HUM	Unmodified	150990	0	31231	0	0	0	0	0	0
INAQLPLTDK	DCAKD; DCAKD	Q8WVC6; K7ESP	DCAKD	HUM	Unmodified	627680	323210	531440	0	0	31448	0	0	0
INAQLPLTDKAR	DCAKD; DCAKD	Q8WVC6; K7ESP	DCAKD	HUM	Unmodified	1688500	1682300	1319300	153520	124450	134300	38256	31020	0
INAVVETGR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	157720	1030000	1247900	0	202140	181010	0	0	0
INCPVYITK	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Unmodified	1513900	2695400	934490	0	0	63412	0	0	0
INDRFEFPEQLPLDEFLQK	USP7; USP7; USP7; (	Q93009; A0A669	UBP7	HUMA	Deamidation (N)	265410	66603	92770	0	0	0	0	0	0
INDRFEFPEQLPLDEFLQK	USP7; USP7; USP7; (	Q93009; A0A669	UBP7	HUMA	Unmodified	179600	153010	206620	0	0	0	0	0	0
INEANQLMQYDQCLTK	GALNT7; GALNT7; (	Q86SF2; H0YAH1	GALT7	HUM	Oxidation (M)	0	0	894440	72829	107010	58907	0	0	0
INEEISVK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	2894900	2526300	2570700	127400	115560	118090	0	0	0
INEILSNALK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	Unmodified	44284000	32698000	48802000	267130	204930	232960	29355	37569	0
INEILSNALK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	Deamidation (N)	8451100	6079200	7897300	32807	55914	40526	0	0	0
INEILSNALK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	2 Deamidation (N)	804160	591600	836460	0	0	0	0	8637.7	7765.9
INEILSNALKR	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	Unmodified	12173000	13070000	11567000	167720	172880	157630	0	11902	0
INEILSNALKR	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	Deamidation (N)	1884600	2275200	1051600	22694	14208	12207	0	9673.4	0
INEILSNALKRGEIIAK	HNRNPM; HNRNPM	P52272; M0R019;	HNRPM	HUM	Unmodified	1757400	1328200	1470500	0	0	0	0	0	0
INEIRQMSGAQIK	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM	Oxidation (M)	3189300	3344200	3343500	0	0	0	0	0	21086
INEKPQVIADYESGR	EDF1	O60869	EDF1	HUM	Unmodified	9283500	10729000	9044900	401250	342500	397360	0	10980	0
INEKPQVIADYESGR	EDF1	O60869	EDF1	HUM	Deamidation (N)	4831900	8532600	7550300	570820	0	327830	0	13418	38497
INETFVDKDFVPYQDIR	PPIL4	Q8WUA2	PPIL4	HUM	Unmodified	2028400	2046200	0	0	0	0	0	0	0
INETFVDKDFVPYQDIR	PPIL4	Q8WUA2	PPIL4	HUM	Deamidation (N)	0	352640	0	0	0	0	0	0	0
INEVQTDVGVDTKHQTLQGVAFPISR	TWF1; TWF1	Q12792; F8VS81	TWF1	HUM	Unmodified	1189400	763060	829430	0	0	0	0	0	0
INFDDNAEFR	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2	HUM	Unmodified	729690	663820	1279700	219450	223520	201320	0	0	0
INFDKYHPGYFGK	RPL27A; RPL27A	P46776; E9PLL6	RL27A	HUM	Unmodified	506780	558120	658070	30155	14628	22698	0	0	0
INGDWQR	LRPPRC	P42704	LPPRC	HUM	Deamidation (N)	1220400	869770	1184200	0	0	0	0	0	0
INGEVSSISSKFETEPVSK	CD2AP	Q9Y5K6	CD2AP	HUM	Deamidation (N)	1104900	1958000	2012400	25944	30471	29086	0	0	0
INGGGGGSVPGIER	HNRNPM	M0QZM1	M0QZM1	HU	Deamidation (N)	12402000	9061700	10767000	566840	436780	602030	32805	19421	0
INGKDSIEKEHVEEISELFYDAK	RUVBL1; RUVBL1	Q9Y265; H7C4G5	RUVB1	HUM	Deamidation (N)	5143300	4055200	4384300	0	0	0	0	0	0
INHEGEVNR	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7	HUM	Unmodified	1107200	852340	1133100	30348	0	0	0	0	0
INIEHALTFLR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	172360	206300	214270	0	0	0	0	0	0
INIPPQR	G3BP1; G3BP1; G3B	Q13283; A0A7I2	G3BP1	HUM	Unmodified	1729300	1763100	1660700	0	0	0	0	0	0
INISEGNCPER	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM	Unmodified	7430700	8033300	8195600	336660	349500	465580	10628	0	0
INISEGNCPER	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM	Deamidation (N)	1370100	1615600	1593000	130140	59469	54947	0	0	0
INISQVIAVVGQQNVEGK	POLR2A; POLR2A	P24928; A0A6Q8I	RPB1	HUM	Unmodified	850840	436630	723250	0	0	0	0	0	0
INKELSDLAR	UBE2D3; UBE2D3; U	P61077; D6R980;	UB2D3	HUM	Unmodified	477260	0	953900	26254	0	0	0	0	0
INKESLLPVAK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA	HUM	Unmodified	914480	1349300	1197600	0	163090	191920	0	0	0
INKESLLPVAK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA	HUM	Deamidation (N)	927550	762940	838670	0	63035	0	0	0	0
INKMEWWSR	NUDC	Q9Y266	NUDC	HUM	Oxidation (M)	586520	747980	965100	0	0	0	0	0	0
INLAEDVLAWEHER	NCLN; NCLN; NCLN	Q969V3; K7ENM	NCLN	HUM	Unmodified	1925300	939840	1888000	0	0	0	0	0	0
INLIAPPR	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A	HUMA	Unmodified	2843100	3344800	2531300	41440	41625	48003	0	0	0
INLQGDIVDR	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	0	0	0	149130	78974	0	0	0	0
INLQQQPPPLQIK	TOX4; TOX4	O94842; A0A669	TOX4	HUM	Unmodified	1822900	1499800	1053300	144860	116300	139420	20752	31202	0
INNDLNIR	N/A	N/A	N/A		Deamidation (N)	0	0	3570800	0	0	0	0	0	0
INPDGSQSVVEVPYAR	CNPY2; N/A; CNPY2	Q9Y2B0; F8W031	CNPY2	HUM	Unmodified	5318200	4090200	4988300	660180	541440	547120	0	16313	25005
INPELNQK	MAP2K3; MAP2K6	P46734; P52564	MP2K3	HUM	Unmodified	572580	520450	591000	57135	0	61913	0	0	0
INPENSKLSDLDSETR	NUDC	Q9Y266	NUDC	HUM	Deamidation (N)	1826900	2305800	2473800	0	0	0	0	0	0
INPENSKLSDLDSETR	NUDC	Q9Y266	NUDC	HUM	Unmodified	0	790330	609040	0	0	0	0	0	0
INPLPGGR	CCAR2; CCAR2; CC	Q8N163; E5RFJ3	CCAR2	HUM	Unmodified	925330	815500	587870	44415	0	77883	0	0	0
INPSSMFDVHVK	PYGB	P11216	PYGB	HUM	Oxidation (M)	894400	723620	911730	15124	17780	0	0	0	0
INPYMSSPCHIEMILTEK	RPL17; RPL17; RPL	P18621; A0A087	RL17	HUMA	2 Oxidation (M)	946400	1059300	1352200	0	0	0	0	0	0
INQDPLGIQGR	NAGA	P17050	NAGAB	HUM	Unmodified	1245700	1108700	1094500	37567	0	50167	0	0	0
INQDPQVMLAPLISIALK	PGM1	P36871	PGM1	HUM	Oxidation (M)	280220	162820	286270	0	0	0	0	0	0
INQGWLDSSR	FERMT2; FERMT2; (	Q96AC1; A0A0U1	FERM2	HUM	Unmodified	0	835650	927740	38410	0	0	0	0	0
INQLYEQAK	FERMT2; FERMT2; (	Q96AC1; A0A0U1	FERM2	HUM	Unmodified	772680	656580	628940	0	0	0	0	0	0
INQMATAPDSQR	SMC3	Q9UQE7	SMC3	HUM	Oxidation (M);Deai	1200000	1050300	0	0	0	0	0	0	0
INRDLFDFSTR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18	HUM	Unmodified	1626200	1379300	1027900	0	0	0	0	0	0
INSAPQQIEVFPPFR	NUP210	Q8TEM1	PO210	HUM	Deamidation (N)	628100	735710	794450	0	0	0	0	0	0
INSGGKLPNFGFVVFDDSEPVQK	G3BP1; G3BP1; G3B	Q13283; A0A7I2	G3BP1	HUM	Deamidation (N)	4210200	1979900	3082000	0	0	0	0	0	0
INSGGKLPNFGFVVFDDSEPVQK	G3BP1; G3BP1; G3B	Q13283; A0A7I2	G3BP1	HUM	2 Deamidation (N)	986610	704160	849030	0	0	0	0	0	0
INSPNSKVNTLSK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Deamidation (N)	1163900	1001000	1434000	112580	99382	109290	0	0	0
INTQEYLDVLGRPMVLAGDK	CACNA2D1	P54289	CA2D1	HUM	Oxidation (M);Deai	570800	507520	645260	0	0	0	0	0	0
INVELSTK	RBM14	Q96PK6	RBM14	HUM	Unmodified	4724500	3668300	3766400	191790	174720	196540	6890.6	0	0
INVELSTKGQK	RBM14	Q96PK6	RBM14	HUM	Unmodified	1253100	1150900	1054600	0	98971	373390	0	0	0
INVNEIFYDLVR	RAP1B; RAP1A; N/A	P61224; P62834;	RAP1B	HUM	Unmodified	664290	33857	326150	0	0	0	0	0	0
INVNEIFYDLVR	RAP1B; RAP1A; N/A	P61224; P62834;	RAP1B	HUM	Deamidation (N)	0	263770	398090	0	0	0	0	0	0
INVSGLTTK	GOT1	P17174	AATC	HUM	Unmodified	2903300	2408700	4709900	75360	56590	60013	0	0	0
INVYYNEAAGNKYVPR	TUBB2A	Q13885	TBB2A	HUM	Unmodified	4733800	3335200	4241100	1280100	1263100	885680	190080	145700	136140
INVYYNEAAGNKYVPR	TUBB2A	Q13885	TBB2A	HUM	Deamidation (N)	5379500	5997000	4613600	1124900	1516300	1405600	130980	123240	82279
INVYYNEAAGNKYVPR	TUBB2A	Q13885	TBB2A	HUM	2 Deamidation (N)	1115300	0	0	473670	134430	167610	53930	24260	31412
INVYYNEASGGRYVPR	TUBB8; TUBB8	Q3ZCM7; A0A07	TBB8	HUMA	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
INVYYNEASGGRYVPR	TUBB8; TUBB8	Q3ZCM7; A0A07	TBB8	HUMA	Unmodified	0	2547500	0	0	0	0	0	0	0
INVYYNEATGGK	TUBB4B	P68371	TBB4B	HUM	Deamidation (N)	10572000	15857000	15461000	619160	938170	1129400	37053	57748	0
INVYYNEATGGK	TUBB4B	P68371	TBB4B	HUM	Unmodified	52167000	45177000	65156000	2097800	2051200	2089400	67656	74293	68730
INVYYNEATGGKYVPR	TUBB4B	P68371	TBB4B	HUM	Unmodified	83047000	95775000	82179000	19275000	20179000	13007000	1458300	1033900	1247600
INVYYNEATGGKYVPR	TUBB4B	P68371	TBB4B	HUM	Methyl (KR)	4214900	5652900	0	507510	433830	368750	104860	0	0
INVYYNEATGGKYVPR	TUBB4B	P68371	TBB4B	HUM	Deamidation (N)	102840000	88251000	92386000	11453000	10611000	12416000	1404100	1254300	538690
INVYYNEATGGKYVPR	TUBB4B	P68371	TBB4B	HUM	Methyl (KR);Deam	4053800	0	3799500	151180	173850	91605	0	0	0
INVYYNEATGGKYVPR	TUBB4B	P68371	TBB4B	HUM	2 Deamidation (N)	1190100	1730100	1309000	0	0	0	0	0	0
INVYYNEATGGNYVPR	TUBB4A; TUBB4A; '	P04350; M0R0X0	TBB4A	HUM	Methyl (KR);3 Dea	1019100	329460	1259200	0	0	0	0	0	0
INVYYNEATGNK	TUBB2B	Q9BVA1	TBB2B	HUM	Unmodified	2492600	2756000	2962900	0	0	60487	0	0	0
INVYYNEATGNK	TUBB2B	Q9BVA1	TBB2B	HUM	Deamidation (N)	1026600	0	1770000	0	0	0	0	0	0
INVYYNEATGNKYVPR	TUBB2B	Q9BVA1	TBB2B	HUM	2 Deamidation (N)	11295000	13364000	11347000	93474	160430	0	0	0	0
INVYYNEATGNKYVPR	TUBB2B	Q9BVA1	TBB2B	HUM	Unmodified	28064000	27225000	23121000	1040400	887710	828770	0	0	0

INVYYNEATGNKYVPR	TUBB2B	Q9BVA1	TBB2B_HUM	Methyl (KR)	1757200	1694400	0	0	0	0	0	0	0
INVYYNEATGNKYVPR	TUBB2B	Q9BVA1	TBB2B_HUM	Deamidation (N)	33530000	28578000	28710000	801360	672130	1382600	0	77360	0
INVYYNESSSQK	TUBB6; TUBB6; TU	Q9BUF5; K7ESQ	TBB6_HUMA	Unmodified	494130	493850	534690	0	0	0	0	0	0
INVYYNESSSQKYVPR	TUBB6; TUBB6; TU	Q9BUF5; K7ESQ	TBB6_HUMA	Deamidation (N)	728540	0	0	292300	102110	96171	0	0	0
INYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI_HUMA	Unmodified	10098000	7862600	11360000	397910	384840	518850	0	0	0
INYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI_HUMA	Deamidation (N)	0	0	3857800	0	0	0	0	0	0
IPAASAAAMNLASAR	SRRM2	Q9UQ35	SRRM2_HUM	Oxidation (M);Deau	1554300	1437700	931260	0	0	0	0	0	0
IPAASAAAMNLASAR	SRRM2	Q9UQ35	SRRM2_HUM	Oxidation (M)	5801300	5535400	4969500	169070	147150	202110	0	0	0
IPACIAGER	DEFA3; DEFA1	P59666; P59665	DEF3_HUMA	Unmodified	1737400	2406300	1586900	216650	213470	0	0	0	63146
IPADTFAALK	IQGAP1; IQGAP1	P46940; A0A0J9Y	IQGA1_HUM	Unmodified	1581600	1521700	1518700	0	13545	14799	0	0	0
IPAEVSQATELHVLDVAGNR	LRRC1	Q9BTT6	LRRC1_HUM	Unmodified	673220	0	666020	0	0	0	0	0	0
IPAFLNVVDIAGLVK	OLA1; OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	Deamidation (N)	34787	0	13553	0	0	0	0	0	0
IPAIFSPAFYTSR	TRAF2	Q12933	TRAF2_HUM	Unmodified	0	216240	223340	0	0	0	0	0	0
IPAMTIAK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M)	3945600	3886900	4388400	0	15230	12549	0	0	0
IPAMTIAKNAGVEGSLIVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M);Deau	1062200	720150	680210	0	0	0	0	0	0
IPAYFVTVSDPAVPPGEDPDGR	VARS1; VARS1; VAI	P26640; H0Y426;	SYVC_HUMA	Unmodified	876420	606370	937150	0	0	0	0	0	0
IPCAMPETVVIR	ANK1; ANK1	P16157; H0YBS0	ANK1_HUMA	Oxidation (M)	2022500	1807800	1611500	537020	395050	317900	0	0	0
IPDEIIDMVKEEVVAK	LSM4; LSM4; LSM4	Q9Y4Z0; V9GZ56	LSM4_HUMA	Oxidation (M)	7684000	6042700	5709700	0	0	0	0	0	0
IPDEIIDMVKEEVVAK	LSM4; LSM4; LSM4	Q9Y4Z0; V9GZ56	LSM4_HUMA	Oxidation (M);Met	3368600	1766300	1642100	0	0	0	0	0	0
IPDETLEK	ACAD9; ACAD9; AC	Q9H845; A0A7P0	ACAD9_HUM	Unmodified	712600	764350	0	0	0	0	0	0	0
IPDISSFLLGHIEGSDMVR	POMK; POMK; POM	Q9H5K3; A0A6Q	SG196_HUM	Oxidation (M)	751040	368460	876810	0	0	0	0	0	0
IPDPEAVKPDDWDEDAPAK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUM	Unmodified	539070	3763500	1714100	0	0	0	0	0	0
IPDQLVILDMK	TMED10; TMED10	P49755; G3V2K7	TMEDA_HUM	Oxidation (M)	7198200	9812200	9252800	127980	107830	137410	0	0	0
IPDQLVILDMKHGVEAK	TMED10; TMED10	P49755; G3V2K7	TMEDA_HUM	Oxidation (M)	3152200	0	868150	180120	150100	199520	0	0	0
IPDVAALSMGFSVK	ATP6AP2; ATP6AP2	O75787; A0A1B0	RENR_HUMA	Oxidation (M)	657120	539980	546230	0	0	0	0	0	0
IPDWFLNR	RPS18; RPS18	P62269; J3JS69	RS18_HUMA	Unmodified	12408000	11470000	15659000	91821	121000	91629	0	0	16007
IPEAPAGPPSDFGLFLSDDDPK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	578120	646140	456380	0	0	0	0	0	0
IPEAPAGPPSDFGLFLSDDDPKK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1302400	0	0	0	0	0	0	0	0
IPEFDPGATK	RCOR3; RCOR3; RC	Q9P2K3; E9PPC5	RCOR3_HUM	Unmodified	1693200	1963100	1569600	0	0	0	0	0	0
IPEFIAFR	NAA25	Q14CX7	NAA25_HUM	Unmodified	1180800	941150	728960	0	0	0	0	0	0
IPEFNWSQMHQR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Oxidation (M)	1167600	1270600	1894500	0	38503	29511	0	0	0
IPEFSSFVVR	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM_HUM	Unmodified	11302000	9177000	14814000	146700	140350	287740	0	26400	0
IPEGLFDPSNVK	ACTL6A; ACTL6B	O96019; O94805	ACL6A_HUM	Unmodified	1016600	0	0	0	0	0	0	0	0
IPEGPIDQGPAIGR	FUT8; FUT8	Q9BYC5; A0A669	FUT8_HUMA	Unmodified	600420	840960	598160	0	0	0	0	0	0
IPEISIQDMTAQVTSPSGK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Oxidation (M)	785530	811630	2246900	28087	0	30701	65643	27326	39056
IPETYPFNPPK	UBE2K; UBE2K	P61086; D6RDM7	UBE2K_HUM	Unmodified	2008600	1493900	1511200	0	0	0	0	0	0
IPFADALDLFR	PRIM2; PRIM2	P49643; A0A5F9	PRI2_HUMA	Unmodified	218420	166810	124290	0	0	0	0	0	0
IPFTVSLDNGHSFPR	SUSD2	Q9UGT4	SUSD2_HUM	Deamidation (N)	1543000	1936400	3339600	0	0	0	0	0	0
IPFYGSYTEMDPVIIASEGVEK	SRP54; SRP54; SRP5	P61011; G3V480;	SRP54_HUM	Oxidation (M)	2606300	2042400	3094000	0	0	0	0	0	0
IPGEETDTIQHMR	CPT1A	P50416	CPT1A_HUM	Oxidation (M)	516130	429270	581020	0	0	0	0	0	0
IPGGIIEDSCVLR	CCT3; CCT3; CCT3;	P49368; E9PQ35;	TCPG_HUMA	Unmodified	763320	751160	520950	0	23925	0	0	0	0
IPGIIIAASAVR	MCM5; MCM5; MC	P33992; B1AHB1	MCM5_HUM	Unmodified	3388900	3350600	2777800	11155	0	9606.6	0	0	13851
IPGLLSPHPLLQLSYTATDR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	3174300	973570	1151600	0	0	0	0	0	0
IPGMLIIDTPGHESFSNLR	EIF5B; EIF5B	O60841; A0A087	IF2P_HUMAN	Oxidation (M)	515710	875750	2951100	0	0	0	0	0	0
IPGSPPESMGR	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB_HUMA	Oxidation (M)	4007500	3961400	978320	0	118740	129580	0	0	0
IPHEPVINSSNVHVGSR	ZNF638	Q14966	ZN638_HUM	Deamidation (N)	1547600	960730	0	0	0	62315	27429	21517	0
IPHFSSLPLDDQVILLR	RXRB; RXRB; RXRI	P28702; A0A0G2J	RXRB_HUM	Unmodified	434460	0	710520	0	0	0	0	0	0
IPIEDGSGEVVLSR	C3	P01024	CO3_HUMAN	Unmodified	5424800	5016800	3336900	369460	344470	232030	30258	0	0
IPIFSAAGLPHNEIAAQICR	ATP6V1B2; ATP6V1	P21281; P15313;	VATB2_HUM	Unmodified	845470	0	622490	0	0	0	0	0	0
IPIHNEDITYDELVLMMQR	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	2 Oxidation (M)	1219500	1708600	851740	0	0	0	0	0	0
IPIPELEAR	PMPCB; PMPCB	O75439; G3V0E4	MPPB_HUM	Unmodified	4733800	5838000	1902100	118820	161500	145140	0	0	0
IPISLVLR	OXSR1; OXSR1	O95747; C9JIG9	OXSR1_HUM	Unmodified	2723500	2290400	2557400	43378	49472	33115	0	0	0
IPKIQQLVKEFFNGKEPSR	HSPA5; HSPA5	P11021; A0A7P01	BIP_HUMAN	Deamidation (N)	1154400	0	0	0	0	0	0	0	0
IPLAEWESR	UQCRC1	P31930	QCR1_HUMA	Unmodified	2645900	2111500	0	38890	39511	49864	0	8007.1	0
IPLGLDLK	SUGP2; SUGP2; SUG	Q8IX01; M0R2Z9	SUGP2_HUM	Unmodified	707640	929260	1503600	0	0	0	0	0	0
IPLLSDLTHQISK	PRDX4; PRDX4; PRI	Q13162; A6NJJ0;	PRDX4_HUM	Unmodified	713120	531700	724000	0	0	0	13472	10324	0
IPLNDLFR	LAMP2	P13473	LAMP2_HUM	Unmodified	2912300	2480100	3087800	64416	64660	43488	12271	0	13029
IPLNDLFR	LAMP2	P13473	LAMP2_HUM	Deamidation (N)	450920	393810	381760	12130	0	12878	0	0	0
IPLNPVLNLHSLLPASNLAGK	RAVER1; RAVER1	E9PAU2; A0A087	E9PAU2_HUM	Unmodified	4466000	3768000	3434700	0	0	0	0	0	0
IPLNPVLNLHSLLPASNLAGK	RAVER1; RAVER1	E9PAU2; A0A087	E9PAU2_HUM	Deamidation (N)	282790	448530	495970	0	0	0	0	0	0
IPLPAGYREEIVR	LSS; LSS	P48449; C9J315	LSS_HUMAN	Unmodified	2284100	2410600	2369000	31065	48577	30998	0	0	0
IPLPGAEMLEEEPLYVNAK	NFYA	P23511	NFYA_HUMA	Oxidation (M)	1874200	0	2076600	0	0	0	0	0	0
IPMPVNFNEPLSMLQR	OSBP; OSBP2; OSBP	P22059; Q969R2;	OSBP1_HUM	2 Oxidation (M);De	0	0	211240	0	0	0	0	0	0
IPNIYAIGDVVAGPMLAHK	DLD; DLD	P09622; E9PEX6	DLDH_HUM	Oxidation (M)	14565000	11056000	11100000	18937	0	0	17443	0	0
IPNPDFFEDLEPFR	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUM	Unmodified	352200	324220	0	0	0	0	0	0	0
IPPDSEKSNLIR	HDLBP; HDLBP; HD	Q00341; A0A024I	VIGLN_HUM	Unmodified	0	222540	315930	0	27101	33249	0	0	0
IPPSSAPTVLSVPAGTTIVK	HCFC1; HCFC1	P51610; A6NEM2	HCFC1_HUM	Unmodified	788010	767980	903620	0	0	0	0	0	0
IPQALEKILQLK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2_HUM	Methyl (KR)	436140	512990	544520	0	0	0	0	0	0
IPQSTLSEFYPR	ATP6V1B2	P21281	VATB2_HUM	Unmodified	2652200	2604200	2645500	80220	17426	25379	0	0	0
IPQTSRTVLEQVLPI	DNAJB1; DNAJB1; I	P25685; A0A7I2V	DNJB1_HUM	Unmodified	248160	279790	186010	0	0	0	0	0	0
IPRDLFEDELVPLFEK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	1216300	1039400	1226400	0	0	0	0	0	0
IPRDLYEDELVPLFEK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	5270800	5667600	4775500	0	0	0	0	0	0
IPSAVGYQPTLATDMGTMQER	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	2 Oxidation (M)	31547000	28222000	24650000	334320	269020	252760	0	0	49801
IPSEQEQLR	UPF1	Q92900	RENT1_HUM	Unmodified	0	0	2271200	50878	39213	43660	0	0	0
IPSLFEIVVRPTGQLAEK	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4_HUM	Unmodified	880320	386790	557040	0	0	0	0	0	0
IPTEAPQLELK	BROX	Q5VW32	BROX_HUM	Unmodified	1803700	1873200	1779700	54928	42355	0	0	0	0
IPTISTQLK	VCL	P18206	VINC_HUMA	Unmodified	0	692630	712610	0	0	0	0	0	0
IPTPIVGVK	PAPOLA; PAPOLA;	P51003; H0YJL4;	PAPOA_HUM	Unmodified	1388300	1035000	1109700	35036	55695	30814	0	0	0
IPVGPETLGR	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	Unmodified	21130000	26001000	24332000	453960	253150	251780	0	0	15233
IPVPILPGLPMNNHGNYIVR	ETFDH	Q16134	ETFD_HUMA	Oxidation (M);2 De	241620	111340	168360	0	0	0	0	0	0
IPVTIITGYLGAGK	CBWD2; CBWD6; CI	Q8IUF1; Q4V339;	CBWD2_HUM	Unmodified	625100	419730	396130	0	0	0	0	0	0
IPVTLNMK	LYPLA2; LYPLA2; L	O95372; Q5QPN5	LYPA2_HUM	Oxidation (M)	1446500	572810	2888900	0	0	0	0	0	0
IPWFQYPIIYDIR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	342630	219510	412830	0	0	0	0	0	0
IQAEFEK	SF3A3	Q12874	SF3A3_HUM	Unmodified	1046500	1249900	1475200	0	0	0	0	0	0
IQAESGCK	FUBP3	Q96I24	FUBP3_HUM	Unmodified	405680	233270	182510	70796	22642	29214	0	0	0
IQAGEVSQPSKEQLEK	PYM1	Q9BRP8	PYM1_HUM	Unmodified	1726700	2065500	2095500	98283	0	197770	0	0	0
IQAIAWAR	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1_HUM	Unmodified	0	225990	212090	0	0	0	0	0	0
IQAIELEDLLR	BGN	P21810	PGS1_HUMA	Unmodified	612400	503140	615640	0	0	0	0	0	0
IQALQQQADEAEDRAQGLQR	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4_HUMA	Unmodified	2359000	1733800	1900700	0	0	0	0	0	0
IQAMKPMTKEEWDAR	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4_HUM	2 Oxidation (M)	2165000	2721700	1777500	0	0	0	0	0	0
IQASQQDDSMR	LSR; LSR	Q86X29; S4R3V8	LSR_HUMAN	Oxidation (M)	401680	520840	539060	57990	47468	42908	0	0	0
IQASTMAFK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Oxidation (M)	13226000	13977000	12116000	36747	54233	39695	0	0	0
IQASTMAFKQMEQISQFLQAAER	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	2 Oxidation (M)	16648000	4078000	10290000	0	0	0	0	0	0
IQDAGPASR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	4825900	7125200	0	35243	0	1523700	0	0	0
IQDAGPASRDVQATGR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	658710	770980	0	673950	712510	930100	188660	137080	175890
IQDIVGILR	NOP2; NOP2; NOP2	P46087; F5H5X6;	NOP2_HUMA	Unmodified	1533000	1616800	1669400	0	0	0	0	0	0
IQDPVLQAVTSQTSLPGH	METTL1	Q9UBP6	TRMB_HUM	Unmodified	1302200	3446200	2018900	15498	0	0	0	0	0
IQDYDVSLDK	USP7; USP7; USP7	Q93009; A0A669	UBP7_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
IQEAGTEVVK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	54236000	47492000	58350000	2693500	2924900	3010700	0	0	0
IQEAGTEVVKAK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	4145700	4971700	3730400	462750	405950	537660	11957	0	14163
IQEAGTEVVKAK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Methyl (KR)	17095000	1590800	0	63017	0	0	0	0	0
IQEASLSTESFLPAQSESISLIR	CCP110; CCP110; CC	O43303; H3BMS1	CP110_HUM	Unmodified	0	401050	513810	0	0	0	0	0	0
IQEDNRLELQK	CACTIN	Q8WUQ7	CATIN_HUM	Unmodified	452170	489160	648250	0	0	14346	0	0	0
IQEELSALR	SUN2	Q9UH99	SUN2_HUMA	Unmodified	1569200	1948900	1755600	30265	20885	21692	0	0	0
IQEENVIPR	LRPPRC	P42704	LPPRC_HUM	Unmodified	5298600	5213700	4971800	0	86711	46744	0	0	0
IQEGEEPEEFWNSLGGK	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
IQEGEEPEEFWNSLGGK	SCIN	Q9Y6U3	ADSV_HUMA	Unmodified	930530	1128600	1225100	0	0	0	0	0	0
IQEGEEPEEFWNSLGGKK	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	2733300	3134000	2994000	0	0	0	0	0	0
IQEGEEPEEFWNSLGGKKDYQTSPLLETQAEDHPPR	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	1934200	1595200	1997800	0	0	0	0	0	0
IQEIIEQLDVTTSEYEKEKLNER	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	2318900	1425400	0	0	0	0	0	0	0
IQELEDLLAK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Unmodified	16587000	14530000	13876000	143690	132200	74022	0	6369.6	0
IQELEDLLAKEKDNSR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Unmodified	1592000	1954500	1682800	0	0	0	0	0	0
IQELEDLLAKEKDNSRR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Unmodified	9480100	3472000	8642600	0	0	0	0	0	0
IQELEDLLAKEKDNSRR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Deamidation (N)	2155800	2423200	2872200	0	0	0	0	0	0
IQELENLPGSLAGDLR	SMARCA4; SMARC	P51532; A0A2R8	SMCA4_HUM	Unmodified	2999300	2627400	2964600	0	0	0	0	0	0
IQEPNTFPAILR	GNS; GNS; GNS; GN	P15586; H7C3P4;	GNS_HUMAN	Unmodified	859280	1202400	0	54170	54312	50482	0	0	0
IQEQVQQTLAR	PKP2; PKP2	Q99959; A0A087	PKP2_HUMA	Unmodified	2671000	1919000	2351900	189950	236430	291330	0	0	0
IQESHPELR	SFXN1	Q9H9B4	SFXN1_HUM	Unmodified	2032600	2023400	1909500	68116	58726	0	0	0	0
IQETQAELPR	MCM6	Q14566	MCM6_HUM	Unmodified	13904000	14192000	17793000	54351	0	106410	0	0	0
IQEVADELQK	ARF4; ARF4; ARF4	P18085; C9JPM4;	ARF4_HUMA	Unmodified	3241400	2253100	1967300	51073	53796	57925	0	0	0
IQFFAIEIAR	PHDC1	Q9BVG4	PHDC1_HUM	Unmodified	2332400	1018300	2215700	0	0	0	0	0	0
IQFKPDDGISPER	FUBP3	Q96I24	FUBP3_HUM	Unmodified	926690	922130	1133600	28953	0	0	0	0	0
IQFKPDDGTTPER	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	18786000	17522000	23096000	234890	483240	695190	0	0	0
IQFKQDDGTGPEK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	5121800	3995100	3439300	98974	167670	107000	11843	0	0
IQGLTVEQAEAVVR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	4082000	3298000	3369500	84949	110940	87221	0	9181.3	16134
IQHGSGFGIEFNATDALR	TIPRL	O75663	TIPRL_HUM	Unmodified	655650	573510	944440	0	7935	0	0	0	0
IQHGSGFGIEFNATDALR	TIPRL	O75663	TIPRL_HUM	Deamidation (N)	3854800	1823400	2475300	0	9126.5	0	0	0	0
IQIAPDSGGLPER	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1_HUM	Unmodified	7159500	5155400	5016800	240620	187980	263770	0	0	0
IQIEAIPLALQGR	DDX47	Q9H0S4	DDX47_HUM	Unmodified	1634900	2049100	1743000	0	0	0	0	0	0
IQIGTQAIER	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4_HUMA	Unmodified	1509900	0	1532600	73505	0	87735	34709	36301	0
IQIISTDSAVASPQR	NR2C2; NR2C2; NR2	P49116; C9JMI6;	NR2C2_HUM	Unmodified	534490	409560	301290	0	22989	46068	0	0	0
IQIPRPDDPSNQIK	HDLBP; HDLBP; HD	Q00341; A0A024I	VIGLN_HUM	Unmodified	2657100	1806200	1774400	90713	271130	135290	0	0	0

IQIVTDSASVER	NR2C2; NR2C2	P49116; C9JKS0	NR2C2	HUM	Unmodified	0	1708400	0	0	0	0	0	0	0
IQKEALGGQALYPHVLVK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	4054000	4196000	3159300	50170	44041	66227	0	0	0
IQLFLAR	THOC1; THOC1; TH	Q96FV9; A0A087	THOC1	HUM	Unmodified	467540	582770	491190	0	0	0	0	0	0
IQLIFER	SART3; SART3	Q15020; A0A499	SART3	HUM	Unmodified	128730	107550	13946000	530720	403120	394270	0	18075	0
IQLQDAGR	SLC25A18; SLC25A	Q9H1K4; Q9H936	GHC2	HUM	Unmodified	889460	852910	937810	162490	176900	260520	21931	22159	23934
IQLQPTSIEK	GMPPB; GMPPB	Q9Y5P6; A0A7I2	GMPPB	HUM	Unmodified	564420	655340	330830	0	0	0	0	0	0
IQLQPTSIEKEVFPIMAK	GMPPB; GMPPB	Q9Y5P6; A0A7I2	GMPPB	HUM	Oxidation (M)	3534300	0	6007900	0	0	0	0	0	0
IQMSNLMNQAR	ATP6V1E1; ATP6V1	P36543; C9J8H1	VATE1	HUM	2 Oxidation (M)	1758500	600150	1174500	0	0	0	0	0	0
IQNAGGSVMIQR	PPM1A; PPM1B; N/	P35813; O75688;	PPM1A	HUM	Oxidation (M)	2104000	0	1870800	0	0	0	0	0	0
IQNAGGSVMIQR	PPM1A; PPM1B; N/	P35813; O75688;	PPM1A	HUM	Oxidation (M);Deai	2442400	1842800	2512000	219280	70591	85759	0	0	0
IQNDAGVR	FUBP1; FUBP3; KHS	Q96AE4; Q96I24;	FUBP1	HUM	Deamidation (N)	6384100	2946200	2855400	124960	147580	0	0	0	0
IQNDAGVR	FUBP1; FUBP3; KHS	Q96AE4; Q96I24;	FUBP1	HUM	Unmodified	581480	14415000	142050	434600	623220	602670	0	0	0
IQNDAGVRIQFKPDDGTTPER	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Deamidation (N)	2747400	2328000	2689700	227910	220900	126720	0	0	0
IQNGAQGIR	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Deamidation (N)	14093000	9483100	20336000	189070	0	259450	16089	298660	11897
IQNGTSGIR	HNRNPH2	P55795	HNRH2	HUM	Deamidation (N)	489720	3679200	3791700	0	0	146270	0	0	0
IQNVNVK	AHCTF1	Q8WYP5	ELYS	HUM	Unmodified	889520	0	765890	0	45442	76463	0	0	0
IQPALQEK	PFDN5; PFDN5; PFD	Q99471; A0A0D9	PFD5	HUM	Unmodified	2361200	1989600	2172800	0	0	27104	0	0	0
IQPDYPAER	SAP130; SAP130; SA	Q9H0E3; A0A2R8	SP130	HUM	Unmodified	1482300	1439400	1357500	0	168560	224410	0	0	0
IQPGSQQADFLDALIVSMDVIQHETIGK	XRCC5; XRCC5	P13010; C9JZ81	XRCC5	HUM	Oxidation (M)	0	0	339000	0	0	0	0	0	0
IQPGSQQADFLDALIVSMDVIQHETIGKK	XRCC5; XRCC5	P13010; C9JZ81	XRCC5	HUM	Oxidation (M);Met	444990	364080	305200	0	0	0	0	0	0
IQPGSQQADFLDALIVSMDVIQHETIGKK	XRCC5; XRCC5	P13010; C9JZ81	XRCC5	HUM	Oxidation (M)	0	588500	562490	0	0	0	0	0	0
IQPQSLQGDLNPLWYK	DNAAF2	Q9NVR5	KTU	HUM	Unmodified	0	856740	438790	0	0	0	0	0	0
IQPVHILTSVSSLR	EZH2; EZH2; EZH	Q15910; G3XAL2	EZH2	HUM	Unmodified	1100500	1039400	1010100	0	0	0	0	0	0
IQPYYALQHSFFK	DYRK1A; DYRK1A;	Q13627; A0A2R8	DYR1A	HUM	Unmodified	2488800	2292000	0	0	0	0	0	0	0
IQQALTSPLPMTPILEGSHR	PHACTR4	Q8IZ21	PHAR4	HUM	Oxidation (M)	1667400	1316800	1489600	0	0	0	0	0	0
IQQDADSVITVGR	ACBD3	Q9H3P7	GCP60	HUM	Unmodified	703340	772690	774620	0	0	0	0	0	0
IQQEIAVQNPLVSER	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1	HUM	Unmodified	3120500	5546800	5375700	48567	38177	37059	0	0	0
IQQIAEGEK	FLOT2; FLOT2; FLO	Q14254; J3QLD9;	FLOT2	HUM	Unmodified	1262300	904030	0	32801	29791	0	0	0	0
IQQLNSNFSQLLEEK	GOLGB1; GOLGB1	Q14789; H7C5I7	GOGB1	HUM	Unmodified	1255600	1538300	1412700	92144	0	89846	0	0	0
IQQLPDHFGPGPVNVVLR	SCML2; SCML2	Q9UQR0; B4DRC	SCML2	HUM	Unmodified	1148400	567550	828460	0	0	0	0	0	0
IQQLTALGAAQATAK	PFDN5; PFDN5; PFD	Q99471; A0A0D9	PFD5	HUM	Unmodified	2431400	2497100	2280300	0	0	0	0	0	0
IQQLTALGAAQATAKA	PFDN5; PFDN5; PFD	Q99471; A0A0D9	PFD5	HUM	Unmodified	0	0	970800	0	0	0	0	0	0
IQQLTEEIGR	TPR	P12270	TPR	HUM	Unmodified	2088400	1062900	2001700	0	0	0	0	0	0
IQQLVKEFFNGKEPSR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUM	Deamidation (N)	34291000	24994000	18572000	47076	35604	41519	0	0	0
IQQLVKEFFNGKEPSR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUM	Methyl (KR);Deam	3100900	2997700	3241500	0	0	12609	0	0	0
IQQNTFTR	FLNC; FLNB; FLNA;	Q14315; O75369;	FLNC	HUM	Unmodified	3220900	4037500	3336200	462960	528230	539580	206590	0	330040
IQQNTFTR	FLNC; FLNB; FLNA;	Q14315; O75369;	FLNC	HUM	Deamidation (N)	2236000	2351700	2606900	118660	81729	76286	17576	23915	28166
IQQQFSDLK	PRPF6	O94906	PRP6	HUM	Unmodified	571040	604470	772500	0	31465	36627	0	0	0
IQQQFSDLKR	PRPF6	O94906	PRP6	HUM	Unmodified	1821300	2428800	1895900	90202	0	0	0	0	0
IQQQIIR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	3513800	2757200	3674400	75714	76966	164050	0	0	0
IQQSENLLK	N/A	N/A	N/A		Deamidation (N)	54236000	0	0	0	0	0	0	0	0
IQRLNELEAQTR	KDM5C; KDM5B; KI	P41229; Q9UGL1	KDM5C	HUM	Unmodified	546600	620930	631550	0	0	0	50092	0	0
IQRMPSEAAQSLAVALPLQTK	PLRG1; PLRG1	O43660; D6RA26	PLRG1	HUM	Oxidation (M)	1405200	1172900	1633700	43882	0	0	0	0	0
IQRPPEDSIQPYEK	UGP2; UGP2; UGP2;	Q16851; A0A7Z4	UGPA	HUM	Unmodified	3815200	2758700	4366700	168870	71296	68854	0	0	0
IQSFIQAMMR	N/A	N/A	N/A		2 Oxidation (M)	0	0	1179800	0	0	0	0	0	0
IQSLGDSK	AARS1; AARS1; AAI	P49588; A0A6Q8	SYAC	HUM	Unmodified	0	0	1413300	21279	15603	0	0	0	0
IQSLMLK	LIPI; LIPI; LIPI	Q6XZB0; A0A2Q	LIPI	HUM	Oxidation (M)	0	0	427600	0	0	0	0	0	0
IQSLPDLSR	RPRD1A; RPRD1A	Q96P16; K7ER50	RPR1A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IQSQFTDAQK	DSP	P15924	DESP	HUM	Unmodified	2293800	1978100	2106200	0	43577	37641	0	0	0
IQSTVTQPGGK	NOMO1; NOMO3; N	Q15155; P69849;	NOMO1	HUM	Unmodified	1454900	1515200	1641100	0	0	0	0	0	0
IQTDSVVATLK	HMBS; HMBS; HMB	P08397; A0A3B3	HEM3	HUM	Unmodified	1040100	1078500	1206400	0	0	0	0	0	0
IQTKEPLPTLPLGR	HTRA2; HTRA2	O43464; A0A0C4	HTRA2	HUM	Unmodified	1603800	1232600	1755600	118270	114970	111290	17493	0	21358
IQTLPNQNQSQTQPLLK	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1	HUM	Unmodified	1084800	1287500	1610800	65751	74954	74937	0	0	0
IQTLPNQNQSQTQPLLK	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1	HUM	Deamidation (N)	2664600	318370	1635600	22770	78187	39825	0	0	0
IQTLPNQNQSQTQPLLK	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1	HUM	2 Deamidation (N)	451210	353640	628630	15628	22163	0	0	0	0
IQTLTSSVR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUM	Unmodified	2455600	3029500	1542500	45071	42922	0	0	0	0
IQTNNNPFQVPIEEQR	RELA; RELA; RELA	Q04206; A0A087	TF65	HUM	Deamidation (N)	697410	385320	1068100	30810	21456	0	0	0	0
IQTQPGYANTLR	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	Unmodified	23272000	25512000	32284000	1035800	985590	1010100	109160	74210	70754
IQTQPGYANTLR	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	Deamidation (N)	22447000	25449000	20357000	595910	152020	585680	30654	33550	38930
IQTQPGYANTLRDAAPK	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	Deamidation (N)	7654400	6017500	6271000	57968	274740	57361	29151	30786	0
IQTQPGYANTLRDAAPK	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	Unmodified	5083200	5364400	4805000	326240	323380	390510	49450	0	63038
IQTYLQSTKPIIDLYEEMGK	CMPK1; CMPK1	P30085; A0A494	KCY	HUM	Oxidation (M)	2989100	2868200	2843000	0	0	0	0	0	0
IQTYLQSTKPIIDLYEEMGKVK	CMPK1; CMPK1	P30085; A0A494	KCY	HUM	Oxidation (M)	3548100	2728700	3560100	0	0	0	0	0	0
IQVEQTRDEDLDTDSLD	PSIP1	V9GYT7	V9GYT7	HUM	Unmodified	0	1027700	0	0	0	0	0	0	0
IQVLQQQADDAEER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904	HUM	Unmodified	2791400	2671800	2372200	0	0	0	0	0	0
IQVLQQQADDAEERAER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904	HUM	Unmodified	25827000	23806000	20886000	164760	294320	0	0	0	0
IQVLQQQADDAEERAERLQR	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904	HUM	Unmodified	2351400	2017100	2205100	0	0	25933	0	0	0
IQVLVEPDHFK	LGALS3	P17931	LEG3	HUM	Unmodified	538120	773270	228280	0	0	0	0	0	0
IQVSSEKEAAPDAGAEPITADSDPAYSSK	CCAR2; CCAR2	Q8N163; E5RHJ4	CCAR2	HUM	Unmodified	7027000	6872500	7416100	479490	0	227270	0	0	0
IQVTPPGFQLVFLPFADDKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	1432600	0	880700	0	0	0	0	0	0
IQVTPPGFQLVFLPFADDKRK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Methyl (KR)	358480	290450	204530	0	0	0	0	0	0
IQVWHEEHR	MSN	P26038	MOES	HUM	Unmodified	743280	707470	683630	0	0	0	0	0	0
IQYEMEYTEGISQR	MFF; MFF; MFF; MF	Q9GZY8; C9JAF1	MFF	HUM	Oxidation (M)	3859300	3357400	2890700	0	0	0	0	0	0
IQYQLVDISQDNALRDEMR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Oxidation (M)	40194000	55345000	36151000	259280	202810	89914	45870	24646	33626
IQYQLVDISQDNALRDEMR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Oxidation (M);Deai	24089000	10464000	17998000	44158	27284	0	0	0	0
IRDEMVATEQER	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Oxidation (M)	4618600	4171200	3978500	0	0	89934	0	0	0
IRDPNQGGKDITEEIMSGAR	EIF4G1; EIF4G1; EIF	Q04637; C9J2Z7;	IF4G1	HUM	Oxidation (M);Deai	5200600	8414900	2173900	626010	503800	459480	47260	112130	50961
IRDPNQGGKDITEEIMSGAR	EIF4G1; EIF4G1; EIF	Q04637; C9J2Z7;	IF4G1	HUM	Oxidation (M)	3237500	4892700	5137400	2263200	1771100	1635000	129150	203320	107150
IRDTPEDIVLEAPASGLAFHPAR	WDR55; WDR55	Q9H6Y2; D6RGJ8	WDR55	HUM	Unmodified	957040	1439000	1098900	0	0	0	0	0	0
IRDWGSGSDTLR	ATP2A3	Q93084	AT2A3	HUM	Unmodified	785990	652710	0	0	0	0	0	0	0
IREEFPDRIMNTFSVVPSPK	TUBB4A; TUBB4A;	P04350; M0R042	TBB4A	HUM	Oxidation (M)	0	512040	550730	0	0	0	0	0	0
IREEYPDRIMNSFSVMPSPK	TUBB1	Q9H4B7	TBB1	HUM	2 Oxidation (M);M	1046100	0	0	0	216630	0	0	0	0
IREEYPDRIMNSFSVMPSPK	TUBB1	Q9H4B7	TBB1	HUM	2 Oxidation (M);M	553080	0	11844000	60543	59793	48659	0	0	0
IREEYPDRIMNTFSVMPSPK	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A	HUM	2 Oxidation (M)	24044000	23451000	20505000	320720	177890	545800	0	17542	0
IREEYPDRIMNTFSVMPSPK	TUBB2A; TUBB2B	Q13885; Q9BVA1	TBB2A	HUM	2 Oxidation (M);De	37373000	35680000	45670000	540300	217740	687840	46008	0	0
IREEYPDRIMNTFSVVPSPK	TUBB; TUBB4B; TU	P07437; P68371;	TBB5	HUM	Oxidation (M)	1654400	0	1544400	1263300	0	0	0	0	0
IREGMAALQSDPWQQELYR	ACADVL; ACADVL	P49748; G3V1M7	ACADV	HUM	Oxidation (M)	3967300	4144700	4619400	0	19296	21460	0	0	0
IRELEEAMAGER	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	1231600	1366500	1034600	121730	77244	107080	0	0	0
IRELESQISELQEDLESER	MYH9	P35579	MYH9	HUM	Unmodified	1015200	0	880120	0	0	0	0	0	0
IRELESQISELQEDLESERASR	MYH9	P35579	MYH9	HUM	Unmodified	2813200	6656600	5673800	0	0	0	0	0	0
IRELLVLPIYANLPSDMQAR	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16	HUM	Oxidation (M)	583510	544830	518770	0	0	0	0	0	0
IRELMLNMLQLGEK	N/A	N/A	N/A		Oxidation (M);Deai	1394900	3007300	0	156330	0	78916	0	0	0
IRELVPESQAYMDLLAFER	SMARCD2; SMARCI	Q92925; Q6STE5;	SMRD2	HUM	Oxidation (M)	3333300	3816900	3856500	0	0	0	0	0	0
IREQNLQDIK	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	404930	274150	306120	96398	78170	88590	0	0	0
IRETTDFKVDTK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	558220	326650	0	728090	575330	831240	0	0	0
IREYFGEFGEIEAIELPMDPK	HNRNPAB; HNRNP	Q99729; D6R9P3	ROAA	HUM	Oxidation (M)	1080000	0	0	0	0	0	0	0	0
IREYFGGFGEVESIELPMDNK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUM	Oxidation (M)	1435900	776300	1189300	0	0	0	0	0	0
IREYPERGDTWR	YLPM1; YLPM1	P49750; H0YIQ2	YLPM1	HUM	Unmodified	830300	916670	1025600	31793	37290	27356	0	0	0
IRGETLGLIGFGR	CTBP2	P56545	CTBP2	HUM	Unmodified	875180	1175500	1269700	0	0	0	0	0	0
IRGPEESQPPQLYAADEEEAPGTRDPTR	EXOSC6	Q5RKV6	EXOS6	HUM	Unmodified	3538200	3498900	6099800	0	0	0	0	0	0
IRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTK	RUVBL2; RUVBL2	Q9Y230; M0R0Y	RUVB2	HUM	Unmodified	1499200	704330	807070	0	0	0	0	0	0
IRIDAMHGVVGPYVK	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Oxidation (M)	1331600	1145300	1176400	0	0	0	0	0	0
IRIDSLSAQLSQLQK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	2619700	2250100	214130	0	0	0	0	0	0
IRLEETLEQLAK	OSBP	P22059	OSBP1	HUM	Unmodified	2556500	2522500	2178700	0	0	0	0	0	0
IRLESEEEGVPSTAIR	CDK1; CDK1; CDK1	P06493; A0A024	CDK1	HUM	Unmodified	2486600	3195600	3211300	0	0	0	0	0	0
IRLFSADPFDLEAQAK	DDI2; DDI2; DDI2	Q5TDH0; H0YI90	DDI2	HUM	Unmodified	1630600	0	1147100	0	0	0	0	0	0
IRLQAYHTQTTPLIEYYR	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2	HUM	Unmodified	598580	477330	510350	0	0	0	0	0	0
IRMEPWDYPAKQEDKGR	MRPS34; MRPS34	P82930; C9JJ19	RT34	HUM	Oxidation (M)	3180000	3615000	3015000	228080	88227	0	0	0	0
IRNIIQQAIDAGEVPSYNAFVK	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	1219600	999670	1052700	0	0	0	0	0	0
IRPFFPQQ	FGB; FGB	P02675; D6REL8	FIBB	HUM	Unmodified	11068000	8333400	7956000	1376300	1379900	1251400	1025700	0	0
IRPLPEEMLSYAR	EXOSC10	Q01780	EXOSX	HUM	Oxidation (M)	1455100	961050	947970	0	0	102930	0	0	0
IRPTAVTLEHVPK	SUN2; SUN2	Q9UH99; B0QY6	SUN2	HUM	Unmodified	2372200	2100600	2063800	101580	0	108620	0	0	0
IRQDDTSSSINFLTR	POLB; POLB; POLB;	P06746; E7EW18;	DPOLB	HUM	Unmodified	662050	731360	714820	36943	32664	36121	0	0	0
IRQKDEEDKAR	AIP	O00170	AIP	HUM	Unmodified	282000	384660	289490	0	0	0	0	0	0
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Oxidation (M)	2665500	2567400	0	0	0	0	0	0	0
IRSIEALLEAGQAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	3340900	4046200	1488700	0	0	11761	0	0	0
IRSLQEQADAAEER	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM	Unmodified	641300	0	0	0	0	0	0	0	0
IRTLQEQLENGPNTQLAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Deamidation (N)	1428700	1280800	1066000	129360	125150	105790	18548	0	19609
IRVAPQQDDLDSPQQSISNAEAR	LAMA2; LAMA2; L/	P24043; A0A087	LAMA2	HUM	Unmodified	0	0	0	198920	254160	137310	0	0	55857
IRVDVADQAQDKDRDDR	EIF4B; EIF4B; EIF4B	P23588; F8VP89;	IF4B	HUM	Unmodified	5948300	6416300	5761000	577720	326140	763790	108140	0	0
IRVDYSITK	TRA2A	Q13595	TRA2A	HUM	Unmodified	960790	783330	1104600	50430	41490	39351	0	0	0
IRVESLLVTAISK	DHX15	O43143	DHX15	HUM	Unmodified	1816300	0	0	0	0	0	0	0	0
IRVESLTDPSK	HSP90AB4P; HSP90;	Q58FF6; P08238;	H90B4	HUM	Unmodified	421030	607080	1628600	0	0	0	0	0	0
IRVESLTDPSKLDSGK	HSP90AB1; HSP90A	P08238; Q58FF8;	HS90B	HUM	Unmodified	680990	663570	785960	0	0	0	0	0	0
ISAAASDSGVESFDEGSSH	EPS8; EPS8; EPS8	Q12929; A0A2R8	EPS8	HUM	Unmodified	530090	0	583490	0	0	0	0	0	0
ISAEETVAR	PRR36; PRR36	Q9H6K5; A0A096	PRR36	HUM	Unmodified	1063700	947310	861430	93468	0	109560	0	0	0
ISAEGGEQVER	APOL2; APOL2	Q9BQE5; J3KQL8	APOL2	HUM	Unmodified	599830	551490	368320	227600	203460	207040	0	0	0
ISALALLK	COPS5	Q92905	CSN5	HUM	Unmodified	283460	231090	239510	0	0	0	0	0	0
ISAPELLLHSPAR	ZNF318	Q5VUA4	ZN318	HUM	Unmodified	1121400	1160500	879390	12112	0	14879	0	0	0
ISAPNVDFNLEGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	476470	0	665770	266030	171880	0	0	103670	88188
ISASCQHPTAFEEAIPK	DNPEP; DNPEP; DN	Q9ULA0; E5RIA4	DNPEP	HUM	Unmodified	0	426470	0	174720	196360	210980	0	0	0
ISASLLDSR	EMC8; EMC8	O43402; M0R1B0	EMC8	HUM	Unmodified	4861500	1797700	2689900	268940	81094	340860	0	0	0

ISATEDTPEAEGEVPELYHQR	KIFBP; KIFBP; KIFB	Q96EK5; A0A6Q	KBP	HUMAN	Unmodified	1025100	738440	748230	0	0	0	0	0	0
ISATSIFFESMPYK	SHMT2; SHMT1; SH	P34897; P34896;	GLYM	HUM	Oxidation (M)	5977400	3441300	1914800	25157	16198	18779	0	0	0
ISATSIFFESMPYKLNPK	SHMT2; SHMT2; SH	P34897; G3V5L0;	GLYM	HUM	Oxidation (M)	3546000	2846300	2451600	27205	0	0	0	0	0
ISAVESQPSR	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C	HUM	Unmodified	2243100	2324500	2533100	136910	118580	132580	0	0	0
ISAVSVAER	DHX9	Q08211	DHX9	HUMA	Unmodified	15209000	24215000	18738000	0	0	0	0	0	0
ISAVSVAQR	DHX30; DHX30	Q7L2E3; H7BXY	DHX30	HUM	Unmodified	1138600	388510	0	0	0	0	0	0	0
ISCTIANR	FN1	P02751	FINC	HUMA	Unmodified	1769900	2385400	1631400	370830	377990	389610	119950	90747	106270
ISDAHLADTMIGK	SPIN1	Q9Y657	SPIN1	HUMA	Oxidation (M)	4459100	3407700	2234100	0	0	0	0	0	0
ISDDTPLEMMTSPRASWTLVR	BCAS3; BCAS3	Q9H6U6; K7ESE9	BCAS3	HUM	Oxidation (M);Met	7003700	7130800	8132900	4273500	4528600	5191800	2400300	2491700	2338300
ISDEGIAYLVK	RFC4; RFC4	P35249; C9JZI1	RFC4	HUMA	Unmodified	681360	633950	797880	0	0	0	0	0	0
ISDFGLSK	CAMK1; ZAP70; AN	Q14012; P43403;	KCC1A	HUM	Unmodified	1223700	330120	1404500	0	19125	41700	0	0	0
ISDFGQMASGLNIDDRR	MAP2; MAP2	P11137; A0A669	MTAP2	HUM	Oxidation (M)	0	1279200	1508100	0	0	0	0	0	0
ISDLHRESVDHLTIPSR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUMA	Unmodified	1432600	0	1967700	0	0	0	0	0	0
ISDQNIIPSVTR	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2	HUM	Unmodified	1275200	923900	845120	0	0	41152	0	0	0
ISDSEGFK	SFPQ	P23246	SFPQ	HUMA	Unmodified	8930300	7506300	6727700	277980	319650	286800	0	0	0
ISDSEGFKANLSLLR	SFPQ	P23246	SFPQ	HUMA	Unmodified	4482200	2535700	3359600	32188	22274	12924	0	0	0
ISDSEGFKANLSLLR	SFPQ	P23246	SFPQ	HUMA	Deamidation (N)	310340	255780	202780	0	0	0	0	0	0
ISDTGLAAGTVPEKQK	KDM3B	Q7LBC6	KDM3B	HUN	Unmodified	868850	913120	648930	77855	0	65648	0	0	0
ISEAPFLHPAPR	TASOR2; TASOR2	Q5VWN6; A0A2R	TASO2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ISEDVEER	MFAP1	P55081	MFAP1	HUM	Unmodified	4102100	4591200	1658000	207170	134580	333370	0	0	0
ISEDVEERLAR	MFAP1	P55081	MFAP1	HUM	Unmodified	350070	384200	0	247570	328100	295840	0	0	0
ISEEDELDTK	PEA15; PEA15	Q15121; B1AKZ5	PEA15	HUM	Unmodified	1040400	866910	0	72567	0	83627	0	0	0
ISEEDELDTKLTR	PEA15; PEA15	Q15121; B1AKZ5	PEA15	HUM	Unmodified	262170	2799300	1933500	59023	0	67059	0	0	0
ISEIEDAAFLAR	ERLIN2; ERLIN1; ER	O94905; O75477;	ERLN2	HUM	Unmodified	8575400	6187500	7365000	600420	700400	605460	0	19744	24692
ISEILLDHGAPIQAK	ANK1	P16157	ANK1	HUMA	Unmodified	869200	1010500	892520	40465	36063	24786	0	0	0
ISEISMEVAEQGR	LAMA2; LAMA2; L	P24043; A0A087	LAMA2	HUN	Oxidation (M)	255240	0	523000	588610	334210	478750	0	24665	0
ISEKEEVTTR	LMNB2	Q03252	LMNB2	HUM	Unmodified	4490100	4093300	3562200	760390	435310	431440	0	0	0
ISEKEEVTTREVSGIK	LMNB2	Q03252	LMNB2	HUM	Unmodified	951230	810100	803920	71115	118030	61720	0	0	0
ISELDAFLK	PSME1	Q06323	PSME1	HUM	Unmodified	885720	1479500	1011200	19295	16269	0	0	0	0
ISELDAFLKEPALNEANLSNLK	PSME1	Q06323	PSME1	HUM	Unmodified	2651400	1123300	1330900	0	0	0	0	0	0
ISELDAFLKEPALNEANLSNLK	PSME1	Q06323	PSME1	HUM	Deamidation (N)	743200	122280	241070	0	0	0	0	0	0
ISELGAGNGGVVTK	MAP2K2	P36507	MP2K2	HUM	Deamidation (N)	1890000	1304400	1368500	131980	100660	0	0	0	0
ISELGSQLSDEAVEDGLFHEFKR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15	HUM	Unmodified	4688700	5320200	2255500	0	0	0	0	0	0
ISEMLLGPVPPSFAFLPK	DUS3L	Q96G46	DUS3L	HUM	Oxidation (M)	224070	166750	174950	0	0	0	0	0	0
ISENFYFDLNSEQMK	DOCK7; DOCK7; DC	Q96N67; A0A0C4	DOCK7	HUM	Oxidation (M)	1886100	2902400	2883300	0	0	0	0	0	0
ISEQFSAMFRR	TUBB6	Q9BUF5	TBB6	HUMA	Oxidation (M);Met	10387000	0	16878000	0	0	0	0	0	0
ISEQFTAMFR	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Oxidation (M)	93477000	70488000	102730000	488430	231700	160710	113420	210900	93045
ISEQFTAMFRR	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Oxidation (M)	19785000	0	16878000	0	0	0	0	0	0
ISEQTYQLSR	STXBP1; STXBP1; S	P61764; A0A1B0	STXB1	HUM	Unmodified	2083500	1809800	1619000	120410	90973	111170	0	0	0
ISESLVR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUM	Unmodified	2566800	3059100	2139700	483730	493880	563830	0	51782	52400
ISETSLPPDMYECLR	LUM	P51884	LUM	HUMA	Oxidation (M)	0	0	0	37232	37601	52268	0	0	15818
ISEVLQK	CKAP4	Q07065	CKAP4	HUM	Unmodified	1398300	1064100	0	0	0	0	0	0	0
ISEYAADIFYSR	USP48; USP48; USP	Q86UV5; E9PJH5	UBP48	HUM	Unmodified	0	726280	897970	0	0	0	0	0	0
ISFAKEPHVEQITR	THAP4	Q8WV91	THAP4	HUM	Unmodified	1515200	1068200	1455200	152420	152570	88189	0	0	0
ISFAKEPHVEQITRK	THAP4	Q8WV91	THAP4	HUM	Unmodified	497410	1261600	576540	72330	83942	0	0	0	0
ISFLENNLEQLTK	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN	HUMA	Unmodified	2103700	2137100	2101200	0	0	0	0	0	0
ISFLENNLEQLTK	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN	HUMA	Deamidation (N)	544930	4472800	845970	0	0	0	0	0	0
ISFTGSTTTGK	ALDH5A1; ALDH5A	P51649; C9J8Q5	SSDH	HUMA	Unmodified	409400	251640	402060	25265	0	0	0	0	0
ISFVEEDVHPK	AHCTF1	Q8WYP5	ELYS	HUMA	Unmodified	1758300	1846800	1364800	0	0	0	0	0	0
ISGETIFVTAPHEATAGIIGVNRK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Deamidation (N)	1178100	761250	1001400	0	0	0	0	0	0
ISGETIFVTAPHEATAGIIGVNRK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	1375000	843040	1393400	0	0	0	0	0	0
ISGGNDKQGFPMK	RPS6; RPS6	P62753; A2A3R5	RS6	HUMAN	Oxidation (M);Deai	2620100	1986400	2210400	0	23178	0	0	0	0
ISGGSVVEMQGDEMTR	IDH1; IDH1; IDH1; IE	O75874; C9J4N6;	IDHC	HUMA	2 Oxidation (M)	1287600	3289900	2873700	124860	364840	122900	0	0	0
ISGGWQMEEADDWLR	PYGM	P11217	PYGM	HUM	Oxidation (M)	1487100	1399600	2154600	45556	38185	16178	37705	33208	30773
ISGGYENVPTDDIHMK	PLOD2; PLOD2	O00469; E7ETU9	PLOD2	HUM	Oxidation (M)	1435300	1140700	1156900	0	0	0	0	0	0
ISGLGLTPEQK	AIFM1; AIFM1; AIFN	O95831; A0A7I2	AIFM1	HUM	Unmodified	7589000	7935700	8399000	438550	372640	373730	0	0	0
ISGLGLTPEQKQK	AIFM1; AIFM1; AIFN	O95831; A0A7I2	AIFM1	HUM	Unmodified	0	0	0	0	0	154600	30908	0	0
ISGLIYEETR	H4C1	P62805	H4	HUMAN	1 Unmodified	155860000	174880000	138840000	825100	843550	819110	347630	323400	259470
ISGLIYEETRGVLK	H4C1	P62805	H4	HUMAN	1 Unmodified	125910000	94917000	100110000	0	95371	0	33698	31584	36056
ISGLIYEETRGVLKVFLENVIR	H4C1	P62805	H4	HUMAN	1 Unmodified	109540	0	0	0	0	0	0	0	0
ISGNNKGVSPEPIHLK	DNM1L; DNM1L; DI	O00429; B4DPZ9	DNM1L	HUN	Deamidation (N)	979510	0	1274100	28541	0	55143	0	0	0
ISGNNKGVSPEPIHLK	DNM1L; DNM1L; DI	O00429; B4DPZ9	DNM1L	HUN	2 Deamidation (N)	1192400	1301200	1334000	0	0	0	0	0	0
ISGTSIAFK	MARK3; MARK1; M	P27448; Q9P0L2;	MARK3	HUM	Unmodified	718120	1686800	595260	0	0	0	0	0	0
ISGTVNIR	TARS1	P26639	SYTC	HUMA	Unmodified	3610700	2495500	2795300	0	80926	0	0	8035	0
ISGVDRYYVSK	NDUFA1	O15239	NDUA1	HUM	Unmodified	1635200	1643600	279170	111210	122660	84837	23667	0	17702
ISGVGIDQPPYGIFVINQK	DSG1	Q02413	DSG1	HUMA	Unmodified	809140	836670	1038600	0	0	0	0	0	0
ISHGEVLEWQK	SRRT; SRRT	Q9BXP5; H7C3A	SRRT	HUMA	Unmodified	1399400	1943600	1660900	0	0	0	0	0	0
ISHLPLVEELR	MCM2; MCM2	P49736; H0YSE6	MCM2	HUM	Unmodified	6913100	6759300	7549400	0	0	0	0	0	0
ISHLSGSGSGDER	RBM15; RBM15; RB	Q96T37; A0A494	RBM15	HUM	Unmodified	985010	1353400	2090800	0	0	0	0	0	0
ISHLVLPVQPENALKR	TOR1AIP1; TOR1AI	Q5JTV8; A0A0A0	TOIP1	HUM	Unmodified	0	2047000	3719500	203150	46649	69948	0	0	0
ISHSLYSGIEGLDESPSR	PARD3; PARD3; PA	Q8TEW0; Q5VWI	PARD3	HUM	Unmodified	452790	0	610820	0	0	0	0	0	0
ISIEGNIAAGK	DCK; DCK; DCK	P27707; D6RFG8;	DCK	HUMA	Unmodified	1584100	1622900	0	0	0	0	0	0	0
ISIEMHGTLEDQLSHLR	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1	HUM	Oxidation (M)	5679300	4057100	5696300	0	0	0	0	0	0
ISIEMNGTLEDQLSHLK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M);Deai	3558200	4991900	6196000	0	0	0	0	11444	0
ISIEMNGTLEDQLSHLKQYER	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M);Deai	8185200	11520000	10613000	0	0	0	0	0	0
ISIGNVVK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	3666200	0	1202300	0	0	0	0	0	0
ISIMAER	LRPPRC	P42704	LPPRC	HUM	Oxidation (M)	4292300	4395800	3741900	26996	38625	0	0	0	0
ISINQALQHAFIQEK	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ISINQALQHAFIQEKI	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Unmodified	1431100	335110	307460	0	0	0	0	0	0
ISINQALQHAFIQEKI	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Deamidation (N)	201580	282340	254350	0	0	0	0	0	0
ISIPDVDLDLKGPK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	855260	756440	0	0	0	99717	11461	26824
ISIPVDISDSDMMLNIINSSITTK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG	HUMA	2 Oxidation (M)	856500	0	595350	0	0	0	0	0	0
ISITEGIER	DSP	P15924	DESP	HUMA	Unmodified	13436000	15523000	11338000	116820	332620	412360	0	0	0
ISKEIGGDVQK	CAP1; CAP1; CAP1;	Q01518; Q5T0R2;	CAP1	HUMA	Unmodified	951600	985300	866820	0	58461	0	0	0	0
ISKESEDFIVEQYK	MCM6	Q14566	MCM6	HUM	Unmodified	2317400	2274600	2200900	58783	0	0	0	0	0
ISKESEDFIVEQYKHLR	MCM6	Q14566	MCM6	HUM	Unmodified	0	1049700	1715100	0	0	0	0	0	0
ISKIEGIENMCNLQK	CNTRL; CNTRL	Q7Z7A1; Q5JVD3	CNTRL	HUM	Oxidation (M);2 De	5211700	4903300	941810	0	0	0	0	0	0
ISKPAPYWEGTAVIDGEFKELK	PRDX4; PRDX4	Q13162; A6NG45	PRDX4	HUM	Unmodified	1041200	752850	0	0	0	0	0	0	0
ISLAPTDVK	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L	HUM	Unmodified	2465300	1569400	3688500	126630	0	81366	0	0	0
ISLAPTDVKELSTKEPGR	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L	HUM	Unmodified	1992400	1576600	1543400	0	0	52730	0	0	0
ISLAPTDVKELSTKEPGRTLEPQELAR	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L	HUM	Unmodified	7845800	5817700	7185500	0	0	0	0	0	0
ISLDQIDLLSTK	PRIM2; PRIM2; PRIM	P49643; A0A096	PRI2	HUMA	Unmodified	990120	1089600	1280800	0	0	0	0	0	11925
ISLEDIQAFEK	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	6693800	7042500	660110	17640	0	11569	9981.7	0	0
ISLEYSELQDKVTSAETK	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B	HUM	Unmodified	2237700	1850000	1358300	0	0	0	0	0	0
ISLGMPVGPNAHK	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2	HUM	Oxidation (M);Deai	0	1351500	2294400	0	0	0	0	0	0
ISLGMPVGPNAHKVPPPWLIAMQR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2	HUM	2 Oxidation (M);De	8457900	0	0	0	0	0	0	0	0
ISLLLDPGSFVESDMFVEHR	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB	HUMA	Oxidation (M)	413380	0	0	0	0	0	0	0	0
ISLPESLK	C3	P01024	CO3	HUMA	Unmodified	3148400	3197600	1752300	116410	118430	41048	27778	0	0
ISLPLPNFSSLNLR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Unmodified	16312000	7867100	11911000	0	0	0	0	0	0
ISLPLPNFSSLNLR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Deamidation (N)	4351100	1680600	2794100	0	0	0	0	0	0
ISLPVILMDETLK	ATP2A2; ATP2A2; A	P16615; A0A0C4	AT2A2	HUM	Oxidation (M)	746100	508150	555890	0	0	0	0	0	0
ISLSPEYVFSVSTFR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	393650	204240	315710	0	0	0	0	0	0
ISLSTLQQQLGQPEK	GTF3C3; GTF3C3; G	Q9Y5Q9; H7C0C	TF3C3	HUM	Unmodified	1267400	1069800	971650	0	0	0	0	0	0
ISMAAYVSGELEHVTR	PFKL	P17858	PFKAL	HUM	Oxidation (M)	2002700	843740	993350	0	0	0	0	0	0
ISMLYMAK	SHTN1	A0MZ66	SHOT1	HUM	2 Oxidation (M)	2503400	1836200	2301500	0	0	0	0	0	0
ISMPDFDLHLK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	173130	124140	109330	50519	0	0
ISMPDFDLHLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	651140	1143200	928990	820820	848720	662720	176680	322500	0
ISMPDFDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	116350	108160	92367	54624	59431	0
ISMPDIDFNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	228010	148330	388480	364530	157160	0	0
ISMPDIDLNLTGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	138040	184890	338660	70418	0	0	0	39446
ISMPDLDLHLK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	54478	14694	0	12654	0	0
ISMPDVDFNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	1730000	0	0	558610	576080	526380	179600	97373	73867
ISMPDVDLHLK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	953680	797710	667870	267340	496570	474760	70986	144570	81641
ISMPDVDLHLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	1153100	2190000	1403500	1514500	524480	516400	170670	650520	152630
ISMPDVDLHVK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	320960	0	237170	115660	269310	135440	166450	155190
ISMPDVDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M);Deai	0	0	0	131840	67114	108920	82238	51901	73876
ISMPDVNLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	370950	200020	169920	436550	297250	356240	76759	24686	0
ISMPDVNLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M);2 De	0	0	0	0	172650	0	0	0	0
ISMPDVNLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M);Deai	0	0	0	0	0	106290	0	0	0
ISMPEIDLNLKGSK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	281260	532210	0	357510	289580	340250	82548	0	0
ISMPEVDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	0	392890	497540	440560	0	319690
ISMPEVDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
ISMPGFKGEGPEVDVNLPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	869280	0	0	228160	284710	123330	112370	138660	145240
ISMQDVDLSLGSPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	151780	227290	220680	0	0	33853
ISMRFQEYHIQQNEALAAK	TIMM9	Q9Y5J7	TIM9	HUMA	Oxidation (M)	640500	0	670400	34454	0	0	0	0	0
ISMSEVDLNVAAPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	250080	0	489430	0	0	0
ISMSHEEEPLGTAGPLALAR	GMPPB; GMPPB; GI	Q9Y5P6; A0A7I2	GMPPB	HUN	Oxidation (M)	596350	571970	333150	0	0	0	0	0	0
ISNDNPEEHVLK	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	Deamidation (N)	565570	0	451850	0	0	0	0	0	0
ISNLLSDYGYHLR	POLR2B; POLR2B; F	P30876; C9J2Y9;	RPB2	HUMA	Unmodified	2968000	2498800	2050200	0	0	0	0	0	0
ISNPWQSPSGTLPALR	MTX1	Q13505	MTX1	HUM	Unmodified	373570	832280	897490	0	0	0	0	0	0
ISPDLCGR	FBN1	P35555	FBN1	HUMA	Unmodified	0	0	0	359060	245720	0	1470600	604180	0
ISPGGISQILDLVK	PRIM2; PRIM2	P49643; A0A5F9	PRI2	HUMA	Unmodified	80330	46044	326990	0	0	0	0	0	0

ISPIQKPQGLDPVEILQER	SMARCA2; SMARC;	P51531; F6VDE0;	SMCA2	HUM	Unmodified	8008600	8658300	7495100	0	0	0	0	0	0
ISPLQFR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUM	Unmodified	12612000	9904500	9958900	1586300	1679400	1839900	370730	366250	262300
ISPMLSPFISSVVR	BABAM2; BABAM2	Q9NXR7; F8W73	BABA2	HUM	Oxidation (M)	1322900	1392200	1144100	0	0	0	0	0	0
ISPWLLR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUM	Unmodified	2670200	1855600	2350500	65240	61841	46874	0	0	0
ISQAEEEDQQLLGHLLLVAK	HINT2	Q9BX68	HINT2	HUM	Unmodified	36568000	35209000	37178000	0	0	0	0	0	0
ISQAEEEDQQLLGHLLLVAKQTAK	HINT2	Q9BX68	HINT2	HUM	Unmodified	753460	0	609850	0	0	0	0	0	0
ISQATAQIK	STX12; STX12	Q86Y82; B1AJQ6	STX12	HUM	Unmodified	1034700	874590	1009600	20546	0	0	0	0	0
ISQKDIEQSIK	ANXA4; ANXA4	P09525; Q6P452	ANXA4	HUM	Unmodified	754330	1130500	850390	94014	68388	50233	0	0	0
ISQLEMAR	MSN	P26038	MOES	HUM	Oxidation (M)	13124000	11534000	8969400	1099300	908930	811580	0	0	0
ISQLQAELR	B3GAT3; B3GAT3; E	O94766; E9PNA1	B3GA3	HUM	Unmodified	1690400	1824900	1634100	0	0	0	0	0	0
ISQMPVILTPLHFDRDPLQK	GMPS	P49915	GUAA	HUM	Oxidation (M)	4956100	2995600	4109600	0	0	0	0	0	0
ISQTYQQQYGR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4	HUM	Unmodified	6949300	6054800	5524600	385530	430580	486890	0	17449	0
ISREECDKYALQSQQR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUM	Unmodified	1165800	636350	831780	0	0	0	0	0	0
ISREEMETLSVFR	RNPC3; RNPC3	Q96LT9; H0YEB8	RNPC3	HUM	Oxidation (M)	611330	0	0	0	46530	0	0	0	0
ISRMEKMTMMMK	SPP2	Q13103	SPP24	HUM	3 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
ISRPGDSDDSR	HNRNPL; HNRNPL;	P14866; B4DVF8;	HNRPL	HUM	Unmodified	9614000	9019400	9662200	250050	305710	0	0	0	0
ISSDLDGHPVPK	TKT; TKT; TKT	P29401; F8W888;	TKT	HUMAN	Unmodified	8707600	7113400	9616300	1100300	322760	1158400	0	18565	0
ISSIQSIVPALEIANAHR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Unmodified	23274000	22073000	21493000	102390	78490	56866	96210	53285	98733
ISSIQSIVPALEIANAHR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Deamidation (N)	7779900	7354000	7566800	0	0	0	25173	0	0
ISSIYAR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	7006400	5946800	10280000	1288100	1288000	1871500	158500	0	0
ISSLLEEQFQQGK	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Unmodified	9078200	7403400	0	230320	78025	154920	0	18384	0
ISSLPVSRPISPSPSAILER	KIAA1217; KIAA121	Q5T5P2; Q5T5P1	SKT	HUMAN	Unmodified	0	1196300	1168600	0	0	0	0	0	0
ISSMVVMENVGQQK	RECQL	P46063	RECQ1	HUM	2 Oxidation (M)	7707800	5543900	0	0	0	0	0	0	0
ISSPLFNTK	OGT	O15294	OGT1	HUM	Unmodified	972890	721770	996490	25501	28275	28350	0	0	0
ISSPTETER	S100A11	P31949	S10AB	HUM	Unmodified	1864600	1494300	1604200	3020200	2681300	2707200	62162	52538	49343
ISSPTGSKDLQMVNISLR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2	HUMA	Oxidation (M)	1762300	0	1405200	69417	45091	30780	20279	0	0
ISSTPAKLEQR	HSPG2	P98160	PGBM	HUM	Unmodified	2272000	1756300	3455400	840720	956940	926150	223310	315730	231450
ISSVSEVMK	IMMT; IMMT; IMM1	Q16891; D6RAW4	MIC60	HUM	Oxidation (M)	768270	635290	684230	0	0	0	0	0	0
ISSVSEVMKESK	IMMT; IMMT; IMM1	Q16891; D6RAW4	MIC60	HUM	Oxidation (M)	1310200	2370800	2522300	40830	132420	69509	0	0	73617
ISSVSEVMKESKQPASQLQK	IMMT; IMMT; IMM1	Q16891; D6RAW4	MIC60	HUM	Oxidation (M)	1481700	1278200	2053100	40360	95682	83811	0	0	0
ISTASGDGR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	Unmodified	483760	264670	409310	25753	25212	74322	0	0	0
ISTEEAIR	DSP	P15924	DESP	HUMA	Unmodified	18701000	30519000	22091000	851830	645100	764000	0	0	0
ISTISSVR	DSP	P15924	DESP	HUMA	Unmodified	15173000	11201000	11419000	535350	585720	450430	0	0	0
ISTISSVRNLTIR	DSP	P15924	DESP	HUMA	Deamidation (N)	572050	2294300	1681500	16916	13899	0	0	0	0
ISTITALGHEGK	RSF1; RSF1; RSF1	Q96T23; H0YCN2	RSF1	HUMA	Unmodified	787910	1004800	1065100	0	46296	38608	0	0	0
ISTLTIEEGNLDIQRPK	PPP1R8; PPP1R8	Q12972; A0A0A0	PP1R8	HUM	Unmodified	3230800	3010700	2501500	39326	34783	0	0	0	0
ISTMRLPDER	IGFBP2; IGFBP2	P18065; C9JMY1	IBP2	HUMA	Oxidation (M)	1241100	781120	1144400	0	0	0	7041.3	0	0
ISTPNLEPMTSTKR	N/A	N/A	N/A		Oxidation (M);Met	0	0	0	0	0	0	0	0	729040
ISTPQTNTVPIKPLISTPPVSSQPK	WAC; WAC; WAC; V	Q9BTA9; A0A0A	WAC	HUMA	Deamidation (N)	3530600	2090400	3037400	111760	48680	0	0	0	20615
ISTQLDFASK	TPR	P12270	TPR	HUMAN	Unmodified	2391300	2133300	0	100010	118670	70924	0	21876	0
ISTVVSSK	SRP14; SRP14	P37108; H0YLA2	SRP14	HUM	Unmodified	6711900	15068000	13531000	217640	184400	202420	0	0	0
ISTYGLPAGGIQPHPQTK	CD2AP	Q9Y5K6	CD2AP	HUM	Unmodified	3234400	2215500	2662300	103530	85151	42133	0	0	0
ISVAGVTSSNVGYLAHAIHQVTK	GOT2	P00505	AATM	HUM	Unmodified	18826000	10752000	12617000	0	0	0	0	0	0
ISVATGALEAAQGSK	HCFC1; HCFC1	P51610; A6NEM2	HCFC1	HUM	Unmodified	1596500	1274600	2013500	81973	112660	118710	0	0	0
ISVESIPSLR	NCOR1; NCOR1	O75376; A0A088	NCOR1	HUM	Unmodified	968610	929850	921520	21774	31289	20450	8225.9	0	0
ISVMGGEQAANVLATITK	MCCC2; MCCC2	Q9HCC0; D6RD6	MCCB	HUM	Oxidation (M)	1100300	0	865770	15610	0	0	0	0	0
ISVMGGEQAANVLATITKDQR	MCCC2; MCCC2	Q9HCC0; D6RD6	MCCB	HUM	Oxidation (M)	3070400	2148000	3225500	27394	0	0	142180	0	0
ISVREPMQTGIK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA	HUMA	Oxidation (M)	111360000	98279000	81691000	4480900	5512300	5481000	379680	0	0
ISVVPTQPGLLLSSSGDGTLR	WDR4	P57081	WDR4	HUM	Unmodified	694670	561450	842330	0	0	0	0	0	0
ISVVSATK	ACIN1; ACIN1; ACI	Q9UKV3; G3V3T	ACINU	HUM	Unmodified	926900	1155600	1341400	59445	76008	69151	0	0	0
ISVYYNEASSHK	TUBB3; TUBB3; N/A	Q13509; G3V2R8	TBB3	HUMA	Deamidation (N)	1270700	1252500	1252300	0	0	0	0	0	0
ISVYYNEASSHK	TUBB3; TUBB3; N/A	Q13509; G3V2R8	TBB3	HUMA	Unmodified	3465700	3082200	3179000	0	20510	0	0	0	0
ISVYYNEASSHKVVPR	TUBB3; TUBB3; N/A	Q13509; G3V2R8	TBB3	HUMA	Unmodified	4347000	3491400	3869500	115360	194140	78503	0	0	0
ISVYYNEASSHKVVPR	TUBB3; TUBB3; N/A	Q13509; G3V2R8	TBB3	HUMA	Deamidation (N)	7877300	7449300	6741500	90641	107420	215410	0	0	0
ISVYYNEATGGK	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Unmodified	102910000	95106000	91456000	741370	694880	893790	108920	91848	34764
ISVYYNEATGGK	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Deamidation (N)	57850000	62024000	55917000	220220	583370	727430	0	0	0
ISVYYNEATGGKVVPR	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Unmodified	55174000	50181000	53727000	1348800	837130	652140	315750	263670	0
ISVYYNEATGGKVVPR	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Deamidation (N)	148510000	163720000	171420000	1414000	1230500	1083600	317960	376680	240160
ISVYYNEATGGKVVPR	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Methyl (KR)	8283500	6395200	6400500	0	0	0	0	0	0
ISVYYNEATGGKVVPR	TUBB; TUBB	P07437; Q5JP53	TBB5	HUMA	Methyl (KR);Deam	0	8002300	5890700	0	0	0	0	0	0
ISWLTNGVPIEIAPDDPSR	NRCAM; NRCAM; N	Q92823; A0A087	NRCAM	HUM	Deamidation (N)	1755800	1931300	1930700	0	0	0	0	0	0
ISWYLR	ECH1; N/A; ECH1;	N/A; Q13011; M0QYT	ECH1	HUMA	Unmodified	1593700	2209200	1251900	0	0	0	0	0	0
ISYFTFIGTPVQATNMNDFKR	TXNL1; TXNL1; TX	O43396; K7EME7	TXNL1	HUM	Oxidation (M);2 De	1171200	488660	687670	0	0	0	0	0	0
ITAAVIEHLER	GATC; N/A; GATC	O43716; H0YIV9;	GATC	HUM	Unmodified	887730	0	1040200	0	0	0	0	0	0
ITADLLSNGIDVYPQK	SEPTIN9; SEPTIN9	Q9UHD8; A0A6Q	SEPT9	HUM	Deamidation (N)	422280	764800	419890	0	0	0	0	0	0
ITAEEMYDIFGK	SF3B6	Q9Y3B4	SF3B6	HUM	Oxidation (M)	1544700	1326900	1369500	0	24823	19665	0	0	0
ITAEEMYDIFGKYGPIR	SF3B6	Q9Y3B4	SF3B6	HUM	Oxidation (M)	709900	0	361900	0	0	0	0	0	0
ITAHLVHELRR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUMA	Unmodified	1272700	1642100	1581000	0	0	0	0	0	0
ITALDEFATK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	6168900	6394100	7869400	617490	595650	564500	0	0	0
ITAPTHVPLQYIGPNQPR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Unmodified	2717900	2325800	3619200	49436	0	0	0	0	0
ITAPTHVPLQYIGPNQPR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Deamidation (N)	360910	343860	338270	0	0	0	0	0	0
ITAQSIEELCAVNLYGPDAQVDR	PRKDC	P78527	PRKDC	HUM	Unmodified	1013100	846940	0	0	0	0	0	0	0
ITATMDDMLSTR	ARID1A; ARID1A; A	O14497; H0Y488;	AR11A	HUM	2 Oxidation (M)	1544500	1355100	1717500	136690	54215	53447	0	0	0
ITDAYLDQYLWYEADKRR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8	HUMA	Unmodified	714600	850090	635820	0	0	0	0	0	0
ITDEEELNDYKLR	CRNKL1; CRNKL1	Q9BZJ0; Q5JY65	CRNL1	HUM	Unmodified	1152200	1123400	1430700	0	108880	0	0	0	0
ITDLANLSAANHDAAIFPGGFGAAK	GATD3B; GATD3A;	A0A0B4J2D5; P0	GAL3B	HUM	Unmodified	1866300	2030800	1593200	0	0	0	0	0	0
ITDLANLSAANHDAAIFPGGFGAAK	GATD3B; GATD3A;	A0A0B4J2D5; P0	GAL3B	HUM	Deamidation (N)	3370200	3476300	3544700	0	0	0	0	0	0
ITDSAGHILYSK	TMED10; TMED10	P49755; G3V2K7	TMEDA	HUM	Unmodified	5336400	5109900	4421100	0	0	37681	0	0	0
ITDSAGHILYSKEDATK	TMED10; TMED10	P49755; G3V2K7	TMEDA	HUM	Unmodified	7747200	6817500	7459200	80722	304740	130330	0	0	0
ITDSAGHILYSKEDATKGK	TMED10; TMED10	P49755; G3V2K7	TMEDA	HUM	Unmodified	1582000	1960200	112390	0	0	0	0	0	0
ITDSPEEIVQK	WARS2	Q9UGM6	SYWM	HUM	Unmodified	1401500	1222300	1308800	0	0	0	0	0	0
ITDTIGPTETSIAPR	BMP2K; BMP2K	Q9NSY1; H0Y9P1	BMP2K	HUM	Unmodified	0	0	0	0	0	0	0	0	0
ITEAPASEK	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	Unmodified	1919700	0	0	0	0	0	0	0	0
ITEAPASEKEIVEVKEENIEDATEK	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	Unmodified	2666700	2151400	1777400	0	0	0	0	0	0
ITEDYYVHLIADNLPVATR	TM9SF4; TM9SF4	Q92544; A0A0C4	TM9S4	HUM	Unmodified	703510	339470	668460	0	0	0	0	0	0
ITEEFLGK	VCAN; VCAN	P13611; E9PF17	CSPG2	HUM	Unmodified	341800	317360	0	0	0	0	0	0	0
ITEELNLR	VPS72; VPS72	Q15906; A0A1W2	VPS72	HUM	Unmodified	7518000	12237000	8461400	46359	127330	81874	0	0	0
ITEFCHR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	1364900	1386600	0	0	0	0	0	0	0
ITEGDVVVGIASSGLHSNGFSLVR	GART	P22102	PUR2	HUMA	Deamidation (N)	529660	0	331130	0	0	0	0	0	0
ITEIYEGTSEIQR	ACADS; ACADS	P16219; E9PE82	ACADS	HUM	Unmodified	4867700	4366400	4535000	79191	28504	104250	0	0	0
ITELKEEIEVK	PFDN4; PFDN4	Q9NQP4; E9POY	PFD4	HUM	Unmodified	2250700	1840100	1922400	0	0	0	0	0	0
ITESEEVVSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	12054000	11756000	13180000	2974200	3332300	2882800	0	0	0
ITESEEVVSREVSGIK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	6523700	5496200	5936600	568570	464070	452160	0	0	0
ITEVTSEGFR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	0	327440	305940	282660	0	0	0
ITFDAFPGEPDKELNPK	AIMP1	Q12904	AIMP1	HUM	Unmodified	2027600	5274000	2042700	77807	59486	47560	0	0	0
ITFDVAPSR	NOMO1; NOMO3; N	Q15155; P69849;	NOMO1	HUM	Unmodified	0	722620	633030	14776	14873	20719	0	0	12260
ITGDAFKVQQAR	FUBP3	Q96I24	FUBP3	HUM	Unmodified	2618900	2101700	2010000	51670	36180	58199	0	0	0
ITGDPYKVQQAK	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Unmodified	7397600	8822400	7538000	0	0	0	0	0	0
ITGEAFVQFASQELAEK	HNRNPF	P52597	HNRPF	HUM	Unmodified	7759600	6225700	10293000	0	0	0	0	0	0
ITGEAFVQFASQELAEKALGK	HNRNPF	P52597	HNRPF	HUM	Unmodified	398000	0	383160	0	0	0	0	0	0
ITGMLLEIDNSELLHMLESPESLR	PABPC4; PABPC1; P	Q13310; P11940;	PABP4	HUM	2 Oxidation (M)	1364300	0	0	0	0	0	0	0	0
ITGNPVVTNR	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10	HUM	Unmodified	552970	699440	997900	46131	54064	48078	0	0	0
ITGQLESLESR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	780600	768860	724380	0	0	0	0	0	0
ITGYIIK	FN1; FN1; FN1	P02751; H0Y7Z1;	FINC	HUMA	Unmodified	1379700	1008100	1042000	39007	51687	34414	0	0	9936.4
ITHQIVDRPGQQTSVIGR	PES1; PES1; PES1	O00541; B3KXD6	PESC	HUM	Unmodified	894740	1221900	979890	23580	19269	30603	0	0	0
ITHSPTVSQVTER	ANK1; ANK1; ANK1	P16157; H0YBS0;	ANK1	HUM	Unmodified	811650	688470	827340	30741	36766	39179	0	0	0
ITIENVPK	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN	HUM	Unmodified	1294200	460200	798270	32399	25410	23342	0	0	0
ITIGQAPTEK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	2587200	1987600	2093100	0	0	0	0	0	0
ITIGQAPTEKGHTR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	433490	374970	456820	0	0	0	0	0	0
ITIPYGR	NXF1; NXF1; NXF1	Q9UBU9; E9PIN3	NXF1	HUM	Unmodified	1009300	945920	941010	0	0	0	0	0	0
ITITNDK	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Unmodified	1392900	842230	2874700	0	0	0	0	0	0
ITITNDK	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Deamidation (N)	4157900	3765400	4527400	41428	35774	43752	0	0	0
ITITNDKGR	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Unmodified	1379300	1292300	1531500	0	110560	0	0	0	0
ITITNDKGR	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Deamidation (N)	4854500	6459300	7441400	483530	408620	284590	0	0	0
ITITNDKGRLSKEDIER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Deamidation (N)	276220	635170	3544600	0	0	0	0	0	0
ITITNDQNR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	0	1693000	1814400	0	0	0	0	0	0
ITITNDQNR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	3472700	4559800	4093600	100950	94961	92479	0	0	0
ITITNDQNRLTPEEIER	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	2056300	1721800	1769500	109090	83038	93481	0	0	0
ITITNDQNRLTPEEIER	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	10932000	7767400	10202000	494660	73507	496230	0	0	0
ITITNDQNRLTPEEIER	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	2 Deamidation (N)	5147500	6837200	5597300	207890	171180	64118	83242	0	0
ITKMPGMNSVHK	ATXN7L1; ATXN7L	Q9ULK2; C9K0V	ATL1	HUM	2 Oxidation (M);De	0	173790	0	0	0	0	0	0	0
ITKPDGIVEER	HAX1; HAX1; HAX1	O00165; E9PIQ7;	HAX1	HUM	Unmodified	1501000	1500700	1998000	16785	82497	0	0	0	0
ITKPGSIDSNNQLFAPGGR	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1	HUMA	Deamidation (N)	4067600	5263500	4789400	358430	37332	255520	48857	45630	0
ITKPGSIDSNNQLFAPGGR	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1	HUMA	2 Deamidation (N)	521870	2251800	2727900	56359	48150	128120	24711	0	0
ITLDLIR	SRBD1	Q8NSC6	SRBD1	HUM	Unmodified	0	1806500	3065700	0	0	0	0	0	0
ITLDNAYMEK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Oxidation (M)	2696500	1913900	2440600	84911	84772	73825	0	0	0
ITLDNAYMEK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Oxidation (M);Dea	1977100	693280	1797800	0	0	0	0	0	0
ITLHITDASDMTR	ZPR1; ZPR1; ZPR1	O75312; H7C0E5;	ZPR1	HUM	Oxidation (M)	1170300	545630	942130	0	0	0	0	0	0
ITLKETFLTSPEELYR	AHSA1; AHSA1; AH	O95433; H0YJ63;	AHSA1	HUM	Unmodified	1070800	0	0	0	0	0	0	0	0
ITLLSALVETR	SERPINA3; SERPIN	P01011; G3V3A0	AACT	HUM	Unmodified	1225300	848420	1102900	0	0	0	0	57513	0
ITLPSHPALGTPK	SAP130; SAP130; SA	Q9H0E3; A0A2R8	SP130	HUM	Unmodified	2379400	0	4898500	0	60003	0	0	0	0
ITLPVDFVTADK	PGK1	P00558	PGK1	HUM	Unmodified	6136600	8100200	6893500	108800	103090	121130	18010	145560	29725

ITLPVDFVTADKFDENAK	PGK1	P00558	PGK1_HUMA	Unmodified	68534000	62517000	62183000	32145	23184	21339	35983	0	29263
ITLPVDFVTADKFDENAK	PGK1	P00558	PGK1_HUMA	Methyl (KR)	3570300	7592900	7145200	0	0	0	0	0	0
ITLPVDFVTADKFDENAK	PGK1	P00558	PGK1_HUMA	Deamidation (N)	70266000	76293000	76279000	35546	0	22099	0	9571.9	0
ITLPVDFVTADKFDENAK	PGK1	P00558	PGK1_HUMA	Methyl (KR);Deam	1941700	1697100	1760900	0	0	0	0	0	0
ITLRPDPLPER	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Unmodified	5098000	4111000	4112800	273270	252200	170540	0	0	49976
ITLVLQQPQSGGPQGHR	CHD8; CHD8; CHD8	Q9HCK8; A0A2R	CHD8_HUMA	Unmodified	613990	417480	581360	0	0	0	0	0	0
ITLVSAAPGK	ACOT13	Q9NPJ3	ACOT13_HUM	Unmodified	1122600	832390	804290	0	11849	0	0	0	0
ITMELFSNIVPR	RANBP2	P49792	RBP2_HUMA	Oxidation (M)	0	1481700	0	32076	25105	27234	0	0	0
ITMEYSSSGK	GRSF1; GRSF1; GRS	Q12849; H0Y8R1;	GRSF1_HUM	Oxidation (M)	1768600	1710100	2168300	0	0	0	0	0	0
ITMIAEPLEK	EFTUD2; EFTUD2	Q15029; K7EP67	U5S1_HUMA	Oxidation (M)	860620	1368600	978870	42148	59829	73556	0	0	0
ITMPIAFNEPLSFLQR	OSBPL2; OSBPL2; C	Q9H1P3; A0A2R8	OSBL2_HUM	Oxidation (M)	559570	405060	1025000	0	0	0	0	0	0
ITNLTQQLEQASIVK	DSP	P15924	DESP_HUMA	Unmodified	8618500	6433600	5336500	25950	0	0	0	0	0
ITPAHDQNDYEVGQR	VARS1; VARS1	P26640; A0A140T	SYVC_HUMA	Deamidation (N)	997010	1240400	853420	201330	0	253490	0	0	0
ITPELLTR	HK1	P19367	HXK1_HUMA	Unmodified	0	0	0	905740	808850	854020	87502	0	76948
ITPENLPQILLQLK	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	1448200	1075100	1666900	0	0	0	0	0	0
ITPENLPQILLQLKR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	5796500	4956800	6979500	0	0	0	0	0	0
ITPGKPYILTVPGHLDEMQLDIQAR	C4A; C4B; C4B_2; C	P0C0L4; P0C0L5;	CO4A_HUMA	Oxidation (M)	1828200	2043300	1637700	0	0	0	0	0	0
ITPNLAEFAFSLYR	SERPINA1; SERPIN/	P01009; A0A0B4J	A1AT_HUMA	Unmodified	992980	323910	278260	0	0	0	22296	0	0
ITPSYVAFTPEGER	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	59342000	61194000	59045000	1920300	1577100	1633900	70797	53440	70202
ITPSYVAFTPEGERLIGDAAK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	32492000	24706000	29992000	106090	76677	0	24614	0	0
ITQDIFQQLLK	MARS1; MARS1	P56192; H0YHV5	SYMC_HUM	Unmodified	295640	260930	254120	0	0	0	0	0	0
ITQDIFQQLLKR	MARS1; MARS1	P56192; H0YHV5	SYMC_HUM	Unmodified	2440200	2627200	2092500	0	0	0	0	0	0
ITQNNAMKISFAKK	SNRPA	P09012	SNRPA_HUM	Oxidation (M);2 De	604510	503050	684840	0	0	0	0	0	0
ITQQMPK	HDLBP; HDLBP; HD	Q00341; A0A024I	VIGLN_HUM	Oxidation (M)	490480	719230	655380	51616	96741	64159	0	0	0
ITQSEFDR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1_HUM	Unmodified	1103900	1262000	1063000	0	0	14867	0	0	0
ITQSEFDRQAEITR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1_HUM	Unmodified	1904400	2264300	1711400	0	39247	39400	0	0	0
ITQSNAILR	GSTM2; GSTM3; GS	P28161; P21266; I	GSTM2_HUM	Unmodified	2389900	1570200	1606200	0	0	0	0	0	0
ITQSNAILR	GSTM2; GSTM3; GS	P28161; P21266; I	GSTM2_HUM	Deamidation (N)	592220	730800	587260	0	0	0	0	0	0
ITQVDFPPREIVTYTK	DYNC1I2; DYNC1I2;	Q13409; E7EQU2	DC1I2_HUM	Unmodified	3024600	2375200	3429000	110850	43403	95018	0	20814	24092
ITRKPVTVSPTTPTSPTEGEAS	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1_HUM	Unmodified	2109500	1789400	1757400	63210	92747	72577	0	0	0
ITSAPDMEDILTESEIKLDGVR	TSNAX; TSNAX-DIS	Q99598; C4P0D8;	TSNAX_HUM	Oxidation (M)	1375000	0	1301600	0	0	0	0	0	0
ITSDFSSEEDR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	582550	458060	582480	0	0	0	0	0	0
ITSEAEDLVANFFPK	PSME3; PSME3; PSI	P61289; A0A087	PSME3_HUM	Unmodified	1344200	1001700	1579600	0	0	0	0	0	0
ITSEAEDLVANFFPK	PSME3; PSME3; PSI	P61289; A0A087	PSME3_HUM	Deamidation (N)	564300	923330	670440	0	0	0	0	0	0
ITSEIPQTER	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP_HUM	Unmodified	5685000	6309200	6922900	0	0	362760	0	0	0
ITSEIPQTERMQK	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP_HUM	Oxidation (M)	0	1427900	1330700	359670	389280	327050	21588	0	0
ITSGPFEPDLYK	PA2G4	Q9UQ80	PA2G4_HUM	Unmodified	4762100	3355600	4068100	82528	68064	58166	0	0	0
ITSGPFEPDLYKSEMEVQDAELK	PA2G4	Q9UQ80	PA2G4_HUM	Oxidation (M)	0	3073200	4304300	0	0	0	0	0	0
ITSPLMEPSSIEK	PSMA5	P28066	PSA5_HUMA	Oxidation (M)	11468000	9078000	10729000	337800	447010	412810	0	0	0
ITSYFLNEGSQARPR	RNASEH2A	O75792	RNH2A_HUM	Deamidation (N)	2634200	0	0	0	0	0	0	0	0
ITSYFLNEGSQARPR	RNASEH2A	O75792	RNH2A_HUM	Unmodified	679710	754580	536720	0	0	0	0	0	0
ITTGAQDDLR	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	1273900	1515500	1628400	51809	0	63148	0	0	0
ITTGAQDDLRK	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	2855100	2713500	3759600	0	70451	0	0	0	0
ITTHYTIYPR	ETFDH	Q16134	ETFD_HUMA	Unmodified	3309700	2989700	3116800	387470	400860	391860	218690	111040	0
ITTMQLER	EIF3A	Q14152	EIF3A_HUMA	Oxidation (M)	4026100	3197900	2500000	212630	73323	184570	0	0	0
ITTPYMTKYER	POLR2F; POLR2F; P	P61218; U3KQB0	RPAB2_HUM	Oxidation (M)	1073300	1266400	778670	0	48643	53709	0	0	0
ITVEDSDKQLLK	CLPB; CLPB; CLPB	Q9H078; A0A2U3	CLPB_HUMA	Unmodified	1235000	1050500	1064300	52896	37944	52462	0	0	0
ITVLEALR	ATAD3A; ATAD3C;	Q9NVI7; Q5T2N8	ATD3A_HUM	Unmodified	2159100	0	0	0	31215	0	0	0	0
ITVVPSAKDFIDLTLSK	GTPBP4	Q9BZE4	GTPB4_HUM	Unmodified	761060	198950	754550	0	0	0	0	0	0
ITWSNPPAQGAR	GOT1	P17174	AATC_HUMA	Unmodified	1169000	1014700	2313100	0	0	0	0	0	0
ITWTKADMILKQDKR	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN_HUMA	Oxidation (M);4 M	413160	312890	576830	0	0	0	0	0	0
ITYGETGGNSPVQEFTVPGSK	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Unmodified	1793200	2086100	2654900	130830	80439	290180	0	0	0
ITYQPSTGEGNEQTTTIGGR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Deamidation (N)	0	0	0	104310	107500	147210	0	0	0
ITYQPSTGEGNEQTTTIGGRQNSVVLQK	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Deamidation (N)	0	0	0	184280	170290	159060	0	0	0
ITYYHLSFPTNIQAPAVVFR	FBLN1	B1AHL2	B1AHL2_HUM	Unmodified	1587700	1255200	1716900	0	0	0	0	0	0
IVADKDYSVTANSK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB_HUMA	Unmodified	6073700	6706500	6832200	0	67501	0	0	0	0
IVADKDYSVTANSK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB_HUMA	Deamidation (N)	1790300	6844900	6050700	0	0	25779	0	0	0
IVADKDYSVTANSKIVVVTAGVR	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB_HUMA	Deamidation (N)	1310200	1165700	2145900	0	0	0	0	0	0
IVAEAIAR	CHD8; CHD8; CHD8	Q9HCK8; A0A2R	CHD8_HUMA	Unmodified	1532300	833500	1331000	17290	18600	16926	0	0	20494
IVAEEFLK	ARPC4; ARPC4-TTL	P59998; H7C0A3;	ARPC4_HUM	Unmodified	13556000	13480000	19455000	496970	500240	576130	93969	133950	0
IVAEEFLKNF	ARPC4	P59998	ARPC4_HUM	Unmodified	3492600	3950400	4133100	266280	0	106690	0	251540	352530
IVAERPGTNSTGPAPMAPPR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M);Deai	40563000	42599000	37254000	1144200	1219100	1078500	0	0	17481
IVAERPGTNSTGPAPMAPPR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M)	635450	774230	559640	40959	0	0	0	0	0
IVAERPGTNSTGPAPMAPPRAPGPLSK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M);Deai	2758300	3325000	5903900	96269	131300	71655	0	0	0
IVAEYEK	TACC1; TACC2; TA	O75410; O95359;	TACC1_HUM	Unmodified	498270	644490	0	0	0	0	0	0	0
IVAFENAFER	USO1	O60763	USO1_HUMA	Unmodified	1100700	1123700	556920	0	0	0	0	0	0
IVAISEDYPR	DSG2	Q14126	DSG2_HUMA	Unmodified	742810	437480	442670	84606	0	0	0	0	0
IVALNAHTFLR	FBLL1; FBL; FBL; FI	A6NHQ2; P22087	FBLL1_HUM	Deamidation (N)	1473800	1912900	0	0	0	0	0	0	0
IVALNAHTFLR	FBLL1; FBL; FBL; FI	A6NHQ2; P22087	FBLL1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
IVAPISDSPKPPPQR	PGLS; PGLS	O95336; M0R261	6PGL_HUMA	Unmodified	9065100	5368500	7498900	352620	222640	231290	0	0	0
IVAPPGGRSNITSLS	DPYSL3; DPYSL3	Q14195; H0YBT4	DPYL3_HUM	Unmodified	0	0	0	90353	113170	92521	869570	730630	789700
IVASTLSNPELFEEWTGNVK	GOT1	P17174	AATC_HUMA	Unmodified	1665000	1745800	1110800	0	0	0	0	0	0
IVATKPLYVALAQR	PABPC1; PABPC3; P	P11940; Q9H361;	PABP1_HUM	Unmodified	12240000	9437200	9135600	60619	55811	0	0	0	0
IVAVTGAEAQK	AARS1; AARS1; AAI	P49588; A0A6Q8I	SYAC_HUMA	Unmodified	1797700	952120	1311500	0	0	0	0	0	0
IVDDWANDGWGLK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUMA	Unmodified	263500	292700	985840	0	0	0	0	0	0
IVDDWANDGWGLKK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUMA	Unmodified	4040900	4219300	4982100	0	0	14251	17422	0	0
IVDDWANDGWGLKK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUMA	Deamidation (N)	2705600	4510200	2313200	0	21185	0	0	0	0
IVDEFTSTFCEMLTQR	N/A	N/A	N/A	Oxidation (M)	9125100	6706700	5043500	33333	0	0	0	0	0
IVDGKVVSETNDTK	KRT18	P05783	K1C18_HUM	Unmodified	310290	387160	313040	896560	870070	913750	0	0	0
IVDGKVVSETNDTK	KRT18	P05783	K1C18_HUM	Deamidation (N)	2241300	2348700	2130600	1123200	1146700	1448400	0	11728	0
IVDGKVVSETNDTKVLR	KRT18	P05783	K1C18_HUM	Unmodified	0	0	0	82125	55140	105370	0	49749	0
IVDGKVVSETNDTKVLRH	KRT18	P05783	K1C18_HUM	Deamidation (N)	4094100	3847100	2926200	13899000	12924000	13720000	3650700	2636600	3052000
IVDGKVVSETNDTKVLRH	KRT18	P05783	K1C18_HUM	Unmodified	165870	81187	178400	4204500	4241100	3774100	655180	693600	516440
IVDLHSR	MCM6	Q14566	MCM6_HUM	Unmodified	549220	429410	462580	0	0	0	0	0	0
IVDPEIALK	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2_HUM	Unmodified	6142700	5232300	4954900	61943	0	0	0	0	0
IVDPNGLAR	ETV6	P41212	ETV6_HUMA	Deamidation (N)	1861600	1866900	2094600	0	14430	40849	0	0	0
IVDQNTK	CPE; CPE; CPE; CPE	P16870; C9JE88;	CBPE_HUMA	Unmodified	446980	617560	1288100	24996	64047	0	0	0	0
IVDQNTKLAPETK	CPE; CPE; CPE; CPE	P16870; C9JE88;	CBPE_HUMA	Unmodified	0	188320	184300	72008	70726	56717	0	0	0
IVEAAENEYQTAISENYQTMSDTTFK	CAPZA2	P47755	CAZA2_HUM	Oxidation (M)	1105800	1325400	927530	0	0	0	0	0	0
IVEDAPPIDLQAEAQHASGEVEEPPRYLLK	POLR2B; POLR2B	P30876; C9J2Y9	RPB2_HUMA	Unmodified	3833200	1866600	0	0	0	0	0	0	0
IVEEETKKELEENKR	MFAP1	P55081	MFAP1_HUM	Unmodified	1651000	1657500	2106800	119230	165300	155900	0	0	0
IVEEPQSNR	OXSR1	O95747	OXSR1_HUM	Unmodified	1899400	0	2009600	123580	160840	361420	0	0	12107
IVEEPQSNRSVTFK	OXSR1	O95747	OXSR1_HUM	Deamidation (N)	802420	730750	985500	0	0	0	0	0	0
IVEGILKRPPDEQR	ELOB; ELOB; ELOB	Q15370; A0A0B4	ELOB_HUMA	Unmodified	5251100	5720100	4921200	0	0	0	0	0	0
IVEGSDAEIGMSPWQVMLFR	F2; F2	P00734; E9PIT3	THRB_HUMA	2 Oxidation (M)	1417900	0	1598600	0	0	0	0	0	0
IVELISR	TOM1L2; TOM1L2;	Q6ZVM7; F5H3S6	TM1L2_HUM	Unmodified	1687900	4364500	3758800	307080	309630	326590	56445	58750	0
IVELMGR	GPD2	P43304	GPDM_HUM	Oxidation (M)	6971400	5939900	6625200	191930	243620	76114	0	0	0
IVELPAPADFLSLSSETKPK	EDC4	Q6P2E9	EDC4_HUMA	Unmodified	7164000	5638500	5872000	0	0	0	15770	0	0
IVEMSTSK	EIF5A; EIF5A2; EIF5	P63241; Q9GZV4	IF5A1_HUMA	Oxidation (M)	6969100	7345400	8218200	271300	250950	0	0	0	0
IVENEKINAEK	DPY30	Q9C005	DPY30_HUM	Unmodified	5104300	5723400	4100700	197160	382710	64677	0	0	0
IVENEKINAEK	DPY30	Q9C005	DPY30_HUM	Deamidation (N)	1306100	866590	1645300	0	0	0	0	0	0
IVEPYIAWGYPNLK	RPL7; RPL7	P18124; A8MUD5	RL7_HUMAN	Deamidation (N)	560040	622440	525960	0	0	0	0	0	0
IVEPYIAWGYPNLK	RPL7; RPL7	P18124; A8MUD5	RL7_HUMAN	Unmodified	7190900	4655700	9028000	0	0	0	0	0	0
IVEQDTMPPK	DDX3X; DDX3Y; DE	O00571; O15523;	DDX3X_HUM	Oxidation (M)	1135700	0	0	0	0	0	0	0	0
IVEQDTMPPKGVR	DDX3X; DDX3Y; DE	O00571; O15523;	DDX3X_HUM	Oxidation (M)	3478200	4289000	5399200	299070	274310	300450	0	13774	0
IVEQPTVSVTEPK	POLD3	Q15054	DPOD3_HUM	Unmodified	0	1939800	0	0	0	0	0	0	0
IVERDGLSEAAAQSR	COASY	Q13057	COASY_HUM	Unmodified	5945900	5730200	5418600	378270	447090	325500	31074	0	0
IVETEAYLGPEDEAAHSR	MPG; MPG	P29372; A2IDA3	3MG_HUMA	Unmodified	8403000	8400300	8389700	268780	249300	296540	0	0	0
IVETEAYLGPEDEAAHSRGGR	MPG; MPG	P29372; A2IDA3	3MG_HUMA	Unmodified	588430	561430	638260	0	0	38159	0	0	0
IVEVGPRDGLQNEK	HMGCL1; HMGCL	Q8TB92; P35914;	HMGC2_HUM	Unmodified	0	620190	533250	86470	59909	91287	0	0	0
IVEVLLMK	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	Oxidation (M)	3406700	3268200	4925000	0	13413	0	0	0	0
IVEVLLMKDR	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	Oxidation (M)	515760	609780	445060	0	0	0	0	0	0
IVEVLLMKDRETNK	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	Oxidation (M)	11311000	9805200	11479000	0	0	43664	0	0	0
IVEVLLMKDRETNKSR	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	Oxidation (M);Deai	4931200	4502900	6079500	0	0	0	0	0	0
IVEYEKEMEK	ATP5PD	O75947	ATP5H_HUM	Oxidation (M)	4639800	1855400	2991400	360150	228750	142490	0	0	0
IVFEDGNINVNKGMGR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	Oxidation (M);Deai	603200	710940	941770	0	0	0	0	0	0
IVFSGNLFQHQEDSK	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	720100	0	1028400	20610	0	33660	0	0	0
IVFSGNLFQHQEDSKK	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	1001300	906430	880430	23096	0	53020	0	0	0
IVFSPEEAK	SUCLA2; SUCLA2; S	Q9P2R7; A0A2R8	SUCB1_HUM	Unmodified	3311100	2343300	2023100	0	0	0	0	0	0
IVFVPGCSIPLTIVK	RARS1	P54136	SYRC_HUMA	Unmodified	1216900	1014600	1079600	0	0	0	0	0	0
IVGELEQMVSEDVPLDHR	HDLBP; HDLBP	Q00341; A0A024I	VIGLN_HUM	Oxidation (M)	2750100	2391000	3447200	0	0	0	0	0	0
IVGELEQMVSEDVPLDHRVHAR	HDLBP; HDLBP	Q00341; A0A024I	VIGLN_HUM	Oxidation (M)	0	0	2710700	0	0	0	0	0	0
IVGLDQVTGMTETAFGSAYK	MYH10	P35580	MYH10_HUM	Oxidation (M)	0	1097400	876190	0	0	0	0	0	0
IVGPEENLSQAEAR	PLOD2; PLOD2	O00469; E7ETU9	PLOD2_HUM	Unmodified	1446300	2009900	2000100	0	0	0	0	0	0
IVGPSGAAVPCKVEPGLGADNSVVR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	2270200	2010100	2331000	143820	107070	100990	0	405040	492070
IVGPSGAAVPCKVEPGLGADNSVVR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Deamidation (N)	2680600	1672800	557080	161560	157670	106470	536180	580350	586550
IVGYFVSGCDPSIMGIGPVPAISGALKK	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Oxidation (M)	3214600	1300700	2040800	0	0	0	0	0	0
IVGYVLAK	NAA11; NAA10; NA	Q9BSU3; P41227;	NAA11_HUM	Unmodified	230050	299380	269900	0	0	0	0	0	0
IVHAFDMEDLGDK	CISD1	Q9NZ45	CISD1_HUM	Oxidation (M)	871530	1097200	919810	76271	0	25577	0	0	0
IVHELNTTVPTASFAGK	MIX23; MIX23; MIX	Q4VC31; C9JQ41	MIX23_HUM	Deamidation (N)	0	621860	572450	0	0	0	0	0	0
IVIGMDVAASEFYR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Oxidation (M)	14430000	9783100	11086000	0	0	0	0	0	0
IVIGMDVAASEFYRDGKYDLDFK	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG_HUM	Oxidation (M)	0	0	1125400	0	0	0	0	0	0

IVIGMDVAASEFYRDGKYDLDFKSPTDPSR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG	HUM/	Oxidation (M)	3087500	2657700	506820	0	0	0	0	0	0
IVIGYQSHADTATK	EIF4E; EIF4E	P06730; D6RBW1	IF4E	HUMAN	Unmodified	10199000	9239800	7111200	0	135950	175390	0	0	0
IVILPDYLEIAR	USP5	P45974	UBP5	HUMA	Unmodified	392960	454690	0	0	0	0	0	0	0
IVIVPSLNPDGR	CPD	O75976	CBPD	HUMA	Unmodified	424400	0	321270	12901	0	17306	0	0	0
IVIVPSLNPDGRER	CPD	O75976	CBPD	HUMA	Unmodified	577990	0	571700	47202	32605	0	0	0	0
IVKDSLSDDVVK	HSDL2	Q6YN16	HSDL2	HUM	Unmodified	3328800	2115100	2334700	0	41739	62598	0	0	0
IVKPNGEKPDEFESGISQALLELEMNSDLK	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7	HUMAN	Oxidation (M);Deai	580180	0	0	0	0	0	0	0	0
IVLANDPDADRLAVAEK	PGM2	Q96G03	PGM2	HUM/	Unmodified	1549200	1624900	935900	569700	494280	416800	0	0	0
IVLANDPDADRLAVAEKQDSGEWR	PGM2	Q96G03	PGM2	HUM/	Unmodified	1277700	2171700	0	25138	26741	0	0	0	0
IVLDSDAAEYGGHQR	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM/	Unmodified	2972900	3361600	3266700	58436	75722	48031	0	11540	0
IVLEDGTLHVTEGSGR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2	HUM	Unmodified	23721000	22537000	20663000	139780	105490	113240	0	0	19360
IVLGQEQDSYGGKFDR	APCS	P02743	SAMP	HUM/	Unmodified	883500	455660	1519400	215920	0	235070	1396000	1143100	501130
IVLLDSSLEYK	CCT3; CCT3; CCT3	P49368; Q5SZX6;	TCPG	HUMA	Unmodified	5342600	4435600	5796000	124360	105670	102700	0	34340	30272
IVLVDDSIVR	PPAT	Q06203	PUR1	HUMA	Unmodified	3848800	2602900	2797700	25681	30900	38821	0	0	0
IVLVDDSIVRGNTISPIIK	PPAT	Q06203	PUR1	HUMA	Deamidation (N)	1327800	635380	973670	0	0	0	0	0	0
IVMFTIDIGEAPK	TMED2; TMED2; TM	Q15363; E7EQ72;	TMED2	HUM	Oxidation (M)	544390	0	257020	0	0	0	0	0	0
IVNLGSSK	PHF5A	Q7RTV0	PHF5A	HUM	Unmodified	2235100	2022600	1775000	120590	116440	111190	0	0	0
IVNLGSSKTDLFYER	PHF5A	Q7RTV0	PHF5A	HUM	Unmodified	997470	824110	926770	90878	87262	76506	0	0	15996
IVNPKGEEKPSMY	PSME2; PSME2; PSN	Q9UL46; A0A087	PSME2	HUM	Oxidation (M)	518320	1058300	647620	16270	0	27157	0	0	0
IVNQPSSLFGSK	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	4225500	2929400	3243200	125870	143390	164010	0	0	0
IVPEGEWGQFMDALR	NSUN2; NSUN2	Q08J23; A0A140	NSUN2	HUM	Oxidation (M)	572870	366540	484970	0	0	0	0	0	0
IVPEWQDYDQEIKQLQIR	UGGT1; UGGT1	Q9NYU2; H7BZG	UGGG1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
IVPGQFLAVDPK	SF3B3	Q15393	SF3B3	HUM/	Unmodified	6587600	5206700	4392400	259200	234170	270020	37509	18291	17877
IVPNVLLEQGK	CS; CS; CS; CS	O75390; A0A0C4	CISY	HUMA	Unmodified	14302000	15621000	21956000	102260	91828	80731	0	15130	0
IVPPWAPPKQPILK	MRPL45; MRPL45; I	Q9BRJ2; A0A087	RM45	HUM/	Unmodified	830080	849080	874260	36640	34812	38077	0	0	0
IVPTVYEDK	ERGIC1	Q969X5	ERGI1	HUM/	Unmodified	3366600	4548100	3607900	212650	319970	368660	0	0	0
IVPTVYEDKSGK	ERGIC1	Q969X5	ERGI1	HUM/	Unmodified	0	1097700	1113500	0	350570	260130	0	0	0
IVPTVYEDKSGKQR	ERGIC1	Q969X5	ERGI1	HUM/	Unmodified	396070	383220	692420	136700	59653	70431	29881	0	54870
IVQAEGEAEAAK	PHB2; PHB2; PHB2	Q99623; F5H3X6;	PHB2	HUMA	Unmodified	9636800	7500900	8505700	366820	406590	528070	0	0	0
IVQDLALHMSLR	RFC1	P35251	RFC1	HUMA	Oxidation (M)	1208200	812820	1403500	0	0	0	0	0	0
IVQEDRAVESR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	7622700	0	5421200	37110	0	53895	0	0	0
IVQELPQLLDAR	NCEH1; NCEH1	Q6PIU2; A0A0A0	NCEH1	HUM	Unmodified	1897900	1668700	1522700	104610	92413	44017	27231	0	0
IVQISGNSMPR	SLTM; SLTM; SLTM	Q9NWH9; H0YKI	SLTM	HUMA	Oxidation (M);Deai	2908700	2268200	0	0	0	0	0	0	0
IVQLLGQNEVDYRQK	UCK2; UCK2	Q9BZX2; A0A2R	UCK2	HUMA	Deamidation (N)	770110	0	0	0	0	0	0	0	0
IVQMTEAEVR	PPP1CB; PPP1CB; P	P62140; C9JP48;	PP1B	HUMA	Oxidation (M)	4236600	4972600	3642100	0	154450	185180	0	0	0
IVQNSNGYKIVTEK	UGDH; UGDH; UGD	O60701; E7ETF4;	UGDH	HUM/	2 Deamidation (N)	0	0	0	90378	56335	102190	0	0	0
IVQVALNGLENILR	KPNA6; KPNA1; KP	O60684; P52294;	IMA7	HUMA	Deamidation (N)	164640	0	89258	0	0	0	0	0	0
IVQVVTAEAVAVLKGEQEK	MAP2; MAP2; MAP2	P11137; H7BZB9;	MTAP2	HUM	Unmodified	1292800	1074600	1070100	0	0	0	0	0	0
IVRPWAEGTEEGAR	OS9; OS9	Q13438; B4E321	OS9	HUMAN	Unmodified	1208800	1719100	1557900	0	0	0	0	0	0
IVSAKNHQSAAEYNIFEGMELR	DPYSL3	Q14195	DPYL3	HUM	Oxidation (M);Deai	0	0	1150000	0	0	0	0	0	0
IVSDRNLPFVAR	TSC2; TSC2; TSC2; T	P49815; X5D2U8;	TSC2	HUMA	Unmodified	184870	151160	187220	27522	19856	28062	0	0	0
IVSGIITPIHEQWEK	PSMF1; PSMF1; PSN	Q92530; Q5QPM7	PSMF1	HUM	Unmodified	3228400	4258500	3856700	0	0	0	0	0	0
IVSGKDYNVTANSK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	Unmodified	7345900	6158600	6460700	29287	0	0	0	0	7307.1
IVSGKDYNVTANSK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	Deamidation (N)	1721600	2096000	1381600	0	0	0	0	0	0
IVSGKDYNVTANSK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	Methyl (KR)	0	0	1966500	0	0	0	0	0	0
IVSGKDYNVTANSK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	Methyl (KR);Deam	478270	505160	464070	0	0	0	0	0	0
IVSGKDYNVTANSKLVIITAGAR	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	Deamidation (N)	8819000	6481900	5995200	0	0	0	0	0	0
IVSGKDYNVTANSKLVIITAGAR	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM/	2 Deamidation (N)	1493200	644170	403990	0	0	0	0	0	0
IVSITER	ZFR; ZFR	Q96KR1; H0Y8W	ZFR	HUMAN	Unmodified	0	0	1073800	0	0	0	0	0	0
IVSKSAMYTMNMHR	N/A	N/A	N/A		Oxidation (M)	847670	0	0	0	12174	15903	11010	0	0
IVSLEPAYPPVFYLNK	DSG2; DSG2	Q14126; J3KSI6	DSG2	HUMA	Unmodified	980120	764630	918010	0	0	0	0	0	0
IVSPGLTIHER	SYTL2; SYTL2	Q9HCH5; A0A0U	SYTL2	HUM	Unmodified	0	0	0	115140	79071	86077	0	0	0
IVSQLLTLMDGLK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Oxidation (M)	1092900	1635100	1894300	0	0	0	0	0	0
IVSQLLTLMDGLKQR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Oxidation (M)	15683000	13052000	6611500	0	0	0	0	0	0
IVSQPQPAR	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1	HUM	Unmodified	8556400	8209300	8783600	816360	890790	774240	50077	41496	0
IVSRPEELREDDVGTGAGLLEIK	CCT3; CCT3	P49368; B4DUR8	TCPG	HUMA	Unmodified	31924000	23782000	31647000	0	0	0	0	0	24005
IVSRPEELREDDVGTGAGLLEIKK	CCT3; CCT3	P49368; B4DUR8	TCPG	HUMA	Unmodified	11377000	10983000	9323900	0	0	0	0	0	0
IVSSIFR	PSME3IP1; PSME3IP	Q9GZU8; H3BNK	PIP30	HUMA	Unmodified	1488900	1630600	1396800	38554	53033	49839	0	0	0
IVSSSDVGHDEYSTQSLVK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1329600	1063300	1324300	81111	115840	94575	0	0	0
IVSWSQVGVEPSIMGIGPIPAIK	ACAT2	Q9BWD1	THIC	HUMA	Oxidation (M)	1618900	705270	991330	0	0	0	0	0	0
IVTADRAATGN	QKI; QKI	Q96PU8; H0YG47	QKI	HUMAN	Unmodified	0	0	0	312440	327810	305850	39913	42447	44283
IVTDRETGSSK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	27792000	32172000	45032000	1074100	1240800	1121200	0	66718	56259
IVTDRETGSSKGFGFVDFNSEEDAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Deamidation (N)	3053700	4456200	2101500	0	0	33232	40752	28299	0
IVTDRETGSSKGFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Deamidation (N)	5363400	8753900	12221000	0	111160	0	51246	0	0
IVTDRETGSSKGFGFVDFNSEEDAKAAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	1269500	0	0	0	0	0	0	28025	0
IVTSEEVIIR	NPTN; NPTN; NPTN	Q9Y639; Q9UFM	NPTN	HUMA	Unmodified	884330	1610100	1647200	67435	171920	0	17867	0	16008
IVTTPQTVLR	MRPL21	Q7Z2W9	RM21	HUMA	Unmodified	2127900	1563600	1234300	164370	172490	108600	0	0	0
IVTTYIR	DNM2; DNM2	P50570; K7EMQ3	DYN2	HUMA	Unmodified	3316200	2046500	2474000	0	69643	30122	0	0	0
IVVDSESR	RBM26; RBM26	Q5T8P6; A0A087	RBM26	HUM	Unmodified	3663400	2151100	3994500	168930	134690	173840	0	0	0
IVVELPHSVNSKL	ZADH2	Q8N4Q0	PTGR3	HUM	Deamidation (N)	0	1071200	503500	0	0	0	0	0	0
IVVLLQR	PSME1; PSME1	Q06323; H0YLU2	PSME1	HUM	Unmodified	2913700	3189800	0	19276	19563	21067	0	7231.4	0
IVVNLTGR	RPS15A; N/A; RPS15	P62244; H3BN98;	RS15A	HUM	Unmodified	3584600	3742100	3789800	34423	24531	30285	9614.4	10115	16563
IVVPPHLGYGEEGR	FKBP9; FKBP9	O95302; C9J4P8	FKBP9	HUM	Unmodified	1036500	705970	1073100	0	0	0	0	0	0
IVVVTAGVR	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB	HUM/	Unmodified	22018000	16176000	16261000	143590	126850	125850	55644	42381	35640
IVVVTAGVRQQEGESR	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB	HUM/	Unmodified	3765500	3488900	3608100	0	0	0	0	0	0
IVWLQEK	THOP1; THOP1	P52888; K7EKB6	THOP1	HUM	Unmodified	1113800	1013600	2002100	0	0	0	0	0	0
IVYGHLDDPASQEIER	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM/	Unmodified	15515000	590710	16650000	453730	446290	0	0	28655	46618
IVYGHLDDPASQEIERGK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM/	Unmodified	0	823900	964540	0	0	0	0	0	0
IVYPTEK	LASP1; LASP1; LAS	Q14847; K7ESD6;	LASP1	HUM	Unmodified	622510	632430	527720	0	0	0	0	0	0
IVYVNEKEGGPNNHLLK	CPE; CPE; CPE; CPE	P16870; C9JE88;	CBPE	HUMA	Methyl (KR);3 Dea	5274800	4150400	5200600	0	0	0	0	0	0
IWCFGPDGTGPNILTDITK	EEF2	P13639	EF2	HUMAN	Unmodified	289520	173580	268690	0	0	0	0	0	0
IWDLEGK	RACK1; RACK1; RA	P63244; D6RAC2	RACK1	HUM	Unmodified	4238200	3303800	3850000	0	0	60781	0	0	0
IWDPTPSHTPAGAATPGR	SF3B1	O75533	SF3B1	HUM/	Unmodified	3528500	3509100	3552500	161720	133350	142690	0	0	21762
IWDTASGQCLK	WDR5	P61964	WDR5	HUM	Unmodified	988620	559200	720360	0	0	0	0	0	0
IWDTTQKEHLLK	WDR1; WDR1	O75083; D6RD66	WDR1	HUM	Unmodified	1023400	543920	550860	0	0	0	0	0	0
IWFDKFKYDDAER	EEF1D; EEF1D; EEF	P29692; E9PJD0;	EF1D	HUMA	Unmodified	560760	575020	555800	0	0	0	0	0	0
IWHHTFYNELR	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ	HUM	Unmodified	29724000	21596000	31487000	0	0	0	0	0	0
IWHHTFYNELR	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ	HUM	Deamidation (N)	33717000	29372000	21687000	0	168040	204470	0	0	0
IWPLYLR	XAB2	Q9HCS7	SYF1	HUMA	Unmodified	938230	1063500	1734900	0	0	0	0	0	0
IWSEPFYQETYLPYMIR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	584080	613460	631650	0	0	0	0	0	0
IWSVPNASCVQVVR	PRPF19	Q9UMS4	PRP19	HUM	Unmodified	971460	1470600	729070	38788	0	0	0	0	0
IWVFGGANQSGNR	RABEPK; RABEPK;	Q7Z6M1; Q5T1S5	RABEK	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
IYADSLKPNIPYK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUMA	Unmodified	1358800	1653500	1224900	41418	65718	48116	0	0	0
IYAEDPSNNFMPVAGPLVHLSTPR	MCCC1; MCCC1; M	Q96RQ3; E9PHF7	MCCA	HUM	Oxidation (M);Deai	2466100	1156000	0	48879	73747	0	28782	0	0
IYAMKILNKWEMLK	CDC42BPB	Q9Y5S2	MRCKB	HUM	Oxidation (M);Metl	870360	989590	654180	0	0	0	0	0	0
IYAPQGLLLTDPIER	GOLGA7	Q7Z5G4	GOGA7	HUM	Unmodified	1011700	627190	463400	0	0	0	0	0	0
IYDAQNELSAATHLTSK	APPL1; APPL1; APP	Q9UKG1; C9K0C	DP13A	HUM	Unmodified	875110	959870	789560	0	0	0	0	0	0
IYDLNKPEAEPK	STRAP	Q9Y3F4	STRAP	HUM	Unmodified	835080	6619600	0	136250	142730	294960	0	0	0
IYDMDKDGYISNGELFQVLK	PPP3R1; PPP3R2; PP	P63098; Q96LZ3;	CANB1	HUM	Oxidation (M);Deai	2766300	1485200	1207000	0	0	0	0	0	0
IYDPQEGAVVVLPADSQQR	TEX10	Q9NXF1	TEX10	HUM	Unmodified	0	1347100	1342600	0	0	0	0	0	0
IYEDGDDDMKR	CACYBP	Q9HB71	CYBP	HUMA	Oxidation (M)	9527300	11158000	8229200	0	0	0	0	0	0
IYEEAWTKYPR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15	HUM	Unmodified	0	841790	717960	0	0	0	0	0	0
IYEFPETDDEEENKLVK	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM	Unmodified	1584800	1817200	1715000	0	0	0	0	0	0
IYELAAGGTAVGTGLNTR	FH	P07954	FUMH	HUM	Unmodified	2958900	1816800	2425500	33417	22718	19569	0	0	0
IYFMAGSSR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUMA	Oxidation (M)	16048000	15707000	16246000	280430	617570	560280	13012	0	0
IYFTDSSSK	APMAP; APMAP	Q9HDC9; H0Y5I2	APMAP	HUM	Unmodified	2822400	2001300	2132300	61615	55831	62120	0	0	0
IYFTDSSSKWQR	APMAP; APMAP	Q9HDC9; H0Y5I2	APMAP	HUM	Unmodified	2288100	1084400	1461500	0	51108	0	0	14368	0
IYGADDIELLPEAQHK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	6256100	14433000	0	0	0	0	0	0	20752
IYGADDIELLPEAQHKAEVYTK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	2391900	1754400	3226900	0	0	0	0	0	0
IYGELWK	MEMO1	Q9Y316	MEMO1	HUM	Unmodified	859160	1267500	578870	12083	8661.3	0	0	0	0
IYGESADAVK	FXR1; FXR1; FXR1;	P51114; E7EU85;	FXR1	HUMA	Unmodified	999710	985970	913630	45516	36720	0	0	0	0
IYGFYDECK	PPP1CA; PPP1CB; P	P62136; P62140;	PP1A	HUMA	Unmodified	701550	0	502510	0	0	0	0	0	0
IYGISFDPK	TARS1	P26639	SYTC	HUMA	Unmodified	5732600	4246100	6131800	148150	0	132780	0	0	11913
IYHPNVDKLGR	UBE2N; UBE2N; UB	P61088; F8VV71;	UBE2N	HUM	Unmodified	0	1852200	0	52611	50517	0	0	0	0
IYIDSNNNPER	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	2804200	3835500	2478900	394470	643850	460360	0	0	0
IYIDSNNNPER	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Deamidation (N)	7341800	7590500	9080800	661930	748230	1010900	0	0	0
IYIDSNNNPER	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	2 Deamidation (N)	653630	681580	686760	0	0	112810	0	0	0
IYIGDDNPLTLIVK	ITGAV	P06756	ITAV	HUMA	Unmodified	245310	225970	223350	0	0	0	0	0	0
IYIGDQVQK	XPO7; XPO7	Q9UIA9; E7ESC6	XPO7	HUMA	Unmodified	714600	903550	734040	0	0	0	0	0	0
IYIPLPEPHAR	VPS4B	O75351	VPS4B	HUM	Unmodified	8593900	3827300	3407100	272290	283890	252140	42676	0	0
IYKPLLFMDLLDER	UTP4; UTP4; UTP4;	Q969X6; A0A0J9	UTP4	HUMA	Oxidation (M)	504030	504650	510120	0	0	0	0	0	0
IYKVPSTEAEALASSLMGLFEK	GDI2; GDI2; GDI2; G	P50395; Q5SX87;	GDIB	HUMA	Oxidation (M)	0	54630	154060	0	0	0	0	0	0
IYLDMLNVYK	XPO1; XPO1; XPO1;	O14980; A0A7Z	XPO1	HUMA	Oxidation (M)	733330	648380	726830	0	0	0	0	0	0
IYLTADNLVLNLQDESFTR	PHB2; PHB2	Q99623; J3KPX7	PHB2	HUMA	Unmodified	285730	0	0	0	0	0	0	0	0
IYNDDKNTYIR	SF3B1	O75533	SF3B1	HUM/	Deamidation (N)	433710	524080	642020	28957	19308	0	0	0	0
IYNEIPDINLDVPHSYSVLER	PDCD4	Q53EL6	PDCD4	HUM	Unmodified	2555900	1075600	0	0	0	0	0	0	0
IYNEIPDINLDVPHSYSVLER	PDCD4	Q53EL6	PDCD4	HUM	Deamidation (N)	729040	770070	534950	0	0	0	0	0	0
IYPEEMIQTGISAIDGMNSIAR	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2	HUM	2 Oxidation (M);De	934130	1026900	0	0	0	0	0	0	0
IYPLPHMYVIK	SDHB; SDHB; SDHB	P21912; A0A087	SDHB	HUMA	Oxidation (M)	679750	852130	684070	0	0	0	0	0	0
IYPSRDEYEAHQER	RNF2; RNF2	Q99496; X6RFN3	RING2	HUM	Unmodified	2827200	5434400	2672800	0	0	0	0	0	0
IYPTFLHLHGK	SSRP1; SSRP1	Q08945; E9PMD4	SSRP1	HUM	Unmodified	3219200	2510300	2589600	0	0	0	0	0	0
IYPVTEIQEAHK	TP53I3	Q53FA7	QORX	HUM/	Unmodified	1260700	0	1236300	0	0	0	0	0	0

IYQAFLMSATFNEDVQALK	DDX56; DDX56; DD	Q9NY93; H7C3E5	DDX56	HUM	Oxidation (M)	1115700	723330	578260	0	0	0	0	0	0
IYQDAYR	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM	Unmodified	1510200	2039300	1771500	94315	117210	96600	0	0	0
IYQEQK	N/A	N/A	N/A		Unmodified	5961400	159280	3743900	41146	48545	63217	0	0	0
IYQGEDLPHPK	ATL3; ATL3	Q6DD88; F5H6I7	ATL3	HUM	Unmodified	942650	835330	322680	0	0	0	0	0	0
IYQIYEGTSQIQR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	15959000	17523000	13815000	227730	176930	219720	0	0	0
IYQNIQDGSLDLNAAESGVQHKPSAPQGGR	RAB14	P61106	RAB14	HUM	Unmodified	4563900	7337300	8052300	33274	34820	0	0	0	0
IYQNIQDGSLDLNAAESGVQHKPSAPQGGR	RAB14	P61106	RAB14	HUM	Deamidation (N)	2131600	883450	1492600	0	0	0	0	0	0
IYSHSLLPVLR	GART	P22102	PUR2	HUM	Unmodified	2185100	1898300	1830000	0	0	11332	0	0	0
IYTFNQSR	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA	HUM	Unmodified	808660	654690	457860	0	87504	0	0	0	0
IYVAELIQQLQQQALSEPAVVQKR	MRPL28	Q13084	RM28	HUM	Unmodified	0	0	389520	0	0	0	0	0	0
IYVASVHQDLSDDDIK	PUF60; PUF60; PUF	Q9UHX1; A0A0J9	PUF60	HUM	Unmodified	1452100	1592800	2164200	15907	19975	0	0	0	0
IYVASVHQDLSDDDIKSVFEAFGK	PUF60; PUF60; PUF	Q9UHX1; A0A0J9	PUF60	HUM	Unmodified	928060	0	650750	0	0	0	0	0	0
IYVGNASVAQDIPKLQK	DUSP3	P51452	DUS3	HUM	Deamidation (N)	1200000	760350	1343000	36142	26470	0	31295	0	15940
IYVGNLPPDIR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Unmodified	13119000	10449000	9357200	403110	413250	221460	0	19300	0
IYVGNLPTDVR	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9	HUM	Unmodified	7703400	6736000	6963700	224720	170760	199390	0	0	0
IYVGNLPTDVREKDLEDLFYK	SRSF9; SRSF9; SRSF	Q13242; S4R3G0;	SRSF9	HUM	Unmodified	3142300	2308800	3380200	0	0	0	0	0	0
IYVISLAEPR	DARS1; DARS1; DAI	P14868; C9JLC1;	SYDC	HUM	Unmodified	616230	636790	488550	0	0	0	0	0	0
IYVMATHGILSAEAPR	PRPSAP1; PRPSAP1	Q14558; C9J168;	KPRA	HUM	Oxidation (M)	2197300	2771500	1811500	27502	0	0	0	0	0
IYVVDVGSEPR	SELENBP1; SELENB	Q13228; A6PVX1	SBP1	HUM	Unmodified	8749800	6173300	7289100	3097500	2575900	2615400	44714	38893	40836
IYYHVVETGSMGAR	TM9SF2	Q99805	TM9S2	HUM	Oxidation (M)	607240	701220	727530	15732	0	0	0	0	0
IYYVDHFTR	ITCH; ITCH; ITCH; I	Q96J02; A0A590U	ITCH	HUM	Unmodified	1646500	886450	1136400	57516	47734	63762	13668	11165	0
KAAALEFLNRFEEAK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1	HUM	Unmodified	3079500	1537000	2011100	0	0	0	0	0	0
KAAAPAPEEEMDECEQALAAEPK	EEF1G	P26641	EF1G	HUM	Oxidation (M)	10678000	10642000	10642000	356070	611990	338710	0	0	0
KAAFKELQSTFK	EFHD2	Q96C19	EFHD2	HUM	Unmodified	1582000	1840300	1620200	372280	470880	357770	57000	0	0
KAAGGATPK	H1-2	P16403	H12	HUMAN	Methyl (KR)	103550	261230	311710	0	0	0	0	0	0
KAALDEAQGVGLDSTGYYDQEIYGGSDSR	SF3B1; SF3B1; SF3B	O75533; B4DGZ4	SF3B1	HUM	Unmodified	1841000	1371500	1378800	0	0	0	0	0	0
KAALEEVERLK	PLEC	Q15149	PLEC	HUM	Unmodified	591520	689690	373840	0	0	0	0	0	0
KAALSASEGEEVPQDKAPSHVPFLLIGGGTAAFAAAR	AIFM1; AIFM1; AIFM	O95831; A0A6Q8	AIFM1	HUM	Unmodified	2172400	1771300	2864300	0	0	0	0	0	0
KAAMTSLMDLTLLLAR	TBCD; TBCD; TBCD	Q9BTW9; A0A0J9	TBCD	HUMA	2 Oxidation (M)	1535800	1579000	1611900	0	0	0	0	0	0
KAASGEAKPK	H1-4; H1-5; H1-2	P10412; P16401;	H14	HUMAN	Unmodified	0	568650	64025	0	100660	0	0	0	0
KAASQPTSLAPEKLREE	MBOAT7	Q96N66	MBOA7	HUM	Unmodified	686740	737960	671860	345500	401330	401740	0	0	0
KAATALKDVVK	PDIA6	Q15084	PDIA6	HUM	Unmodified	593290	960290	799230	0	47574	0	0	0	0
KACADATLSQITNNIDPVGR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Deamidation (N)	5646700	5748400	3875700	85453	59095	77166	0	13580	0
KACADATLSQITNNIDPVGR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Unmodified	761330	617900	0	0	0	0	0	0	0
KACGDSTLTQITAGLDPVGR	GNB2; GNB2; GNB2	P62879; C9JXA5;	GBB2	HUMA	Unmodified	1355500	1174400	1200000	0	0	0	0	0	0
KADEVLEILK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	613620	819160	779820	16437	36697	11976	0	0	0
KADGYNQPDSK	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR	HUM	Unmodified	1663200	1947600	2238500	2315000	124390	1626000	138480	18156	170530
KADIDLTKR	RPS18	P62269	RS18	HUMA	Unmodified	544960	616640	548740	104800	0	72194	0	0	0
KADKGVAMGIAGSDVSK	ATP1A1; ATP1A3; N	P05023; P13637;	AT1A1	HUM	Oxidation (M)	3457500	3487400	2927800	267030	251330	249320	0	11396	29600
KADTEEEFLAFRK	MKI67	P46013	KI67	HUMA	Unmodified	0	1200800	1466500	0	0	0	0	0	0
KADVEEEFLALR	MKI67	P46013	KI67	HUMA	Unmodified	4777000	6232200	4887200	20137	16133	16545	0	9963.8	0
KADVEEEFLALRK	MKI67	P46013	KI67	HUMA	Unmodified	1662400	1530500	1156000	0	0	0	0	0	0
KAEAAVVAVAEKR	SELENOH; SELENO	Q8IZQ5; A0A087	SELH	HUMA	Unmodified	1386600	1502600	1508700	85934	0	202080	0	0	0
KAEAGAGSATEFQFR	RPS10; RPS10P5	P46783; Q9NQ39	RS10	HUMA	Unmodified	16925000	20715000	20564000	1053600	1000600	967460	180310	164910	129270
KAEAQIAAK	GOT2	P00505	AATM	HUM	Unmodified	2667100	3352500	3595000	851610	970950	911690	0	0	0
KAEDLFQDAYYQSPETR	ASMTL	O95671	ASML	HUM	Unmodified	986360	1790300	1556900	37923	0	0	0	0	0
KAEEELGELEAK	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	3501100	4358300	5253100	67813	84387	44653	0	0	0
KAEEELGELEAKLNENLRR	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	4950700	5566600	5965500	0	0	0	0	0	0
KAEELANEMIEAAK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUMA	Oxidation (M)	2747700	3899400	3976200	0	0	70591	0	0	0
KAEEVQAWAQR	MRPS26	Q9BYN8	RT26	HUMA	Unmodified	1546300	2052300	1524500	0	0	0	0	0	0
KAEEVQAWAQRK	MRPS26	Q9BYN8	RT26	HUMA	Unmodified	863360	1024900	643160	0	0	0	0	0	0
KAEGAQNQGK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1	HUM	Deamidation (N)	0	90214	0	0	0	0	0	0	0
KAEGDAKGDKAK	HMGN2	P05204	HMGN2	HUM	Unmodified	0	37004	217030	0	9748.5	0	0	0	0
KAEGEPQEESPLK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	1631100	6632200	0	0	0	0	0	0	0
KAEGGGGGGRPGAPAAGDGKTEQK	HNRNPU	Q00839	HNRPU	HUM	Unmodified	0	0	0	328580	313910	393200	0	0	0
KAEIGIAMGSGTAVAK	ATP2A1; ATP2A2; A	O14983; P16615;	AT2A1	HUM	Oxidation (M)	10352000	11249000	10797000	566490	995860	714490	0	105840	0
KAELLDNEKPAAVVAPITTGYTVK	CACYBP	Q9HB71	CYBP	HUMA	Unmodified	1846100	1338800	1595100	0	0	0	0	0	0
KAELLDNEKPAAVVAPITTGYTVK	CACYBP	Q9HB71	CYBP	HUMA	Deamidation (N)	4427000	3422700	5649100	0	0	0	0	0	0
KAERELSEQIQR	EZR; EZR	P15311; E7EQR4	EZRI	HUMA	Unmodified	3331700	3724800	0	311950	292720	321010	0	0	14847
KAESFAQEMFIEQNK	SHTN1	A0MZ66	SHOT1	HUM	Oxidation (M)	678210	764250	805160	19379	39808	0	0	0	0
KAEVEGKDLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	121660000	94468000	89583000	3219900	5099500	4796600	207230	311470	0
KAEVEGKDLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Methyl (KR)	3526700	3891100	3323500	155240	113360	194720	11415	0	0
KAFEEAEK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	0	0	1253800	0	0	0	0	0	0
KAFEEAEKNAPAIIFIDELDAIAPK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	1986500	1095400	329370	0	0	0	0	0	0
KAFEEAEKNAPAIIFIDELDAIAPK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Methyl (KR)	331030	121150	222780	0	0	0	0	0	0
KAFEEAEKNAPAIIFIDELDAIAPKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	5007700	3928200	5004500	0	0	0	0	0	0
KAFPEHLYQR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Unmodified	750980	732210	686120	0	0	0	0	0	0
KAGEQQETASR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	1136100	0	4748000	0	0	0	0	0	0
KAGEQQETASRELVKEPAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	1074100	1255400	965080	545010	471810	450560	30158	68381	0
KAGPAKEQEPMPTVDSHEPR	JPT2; JPT2; JPT2	Q9H910; A6NGP5	JUPI2	HUMA	Oxidation (M)	8174800	9508500	11122000	1956200	2312200	1734800	0	0	0
KAHLMEIQVNGGTVAEK	RPL3; RPL3; RPL3; I	P39023; B5MCW	RL3	HUMAN	Oxidation (M);Deam	432110	771960	772670	0	0	0	0	0	0
KAIVICPTDEDLKDR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	2383300	3108900	1117900	108160	115440	117190	21851	0	24560
KAIYEVLQVASSR	DNMT3A; DNMT3A;	O9Y6K1; A0A0C4	DNM3A	HUM	Unmodified	199710	255380	254980	0	0	0	0	0	0
KALAAAGYDVEK	H1-3; H1-4; H1-1; H1	P16402; P10412;	H13	HUMAN	Unmodified	2576900	1140600	2544300	0	0	0	0	0	0
KALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412;	H13	HUMAN	Deamidation (N)	2545000	2806000	2523800	0	0	0	0	0	0
KALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412;	H13	HUMAN	Methyl (KR);Deam	742350	635670	942090	0	0	0	0	0	0
KALAAAGYDVEKNNSR	H1-3; H1-4; H1-1; H1	P16402; P10412;	H13	HUMAN	2 Deamidation (N)	3157000	3210800	3406800	0	0	0	0	0	0
KALDDMISTLK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG	HUMA	Oxidation (M)	1342400	0	0	0	0	0	0	0	0
KALDIAENEMPGLMR	AHCY	P23526	SAHH	HUMA	2 Oxidation (M)	9686400	8027600	9252100	766940	614860	661920	76998	113610	88272
KALDIAENEMPGLMR	AHCY	P23526	SAHH	HUMA	2 Oxidation (M);De	6855200	6797000	7924100	397560	195510	450320	48621	0	65667
KALDIAENEMPGLMR	AHCY	P23526	SAHH	HUMA	2 Oxidation (M);M	541000	0	0	380600	323150	320320	0	0	0
KALEGLQYPFAVTSYGK	NID1	P14543	NID1	HUMA	Unmodified	0	0	1365000	0	37709	34400	22522	11730	22663
KALSRQEMQEVQSSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M)	8329700	3660600	1380200	0	4317400	3272500	492850	935700	0
KAMEAVAAQGK	PGAM1; PGAM2	P18669; P15259	PGAM1	HUM	Oxidation (M)	13412000	21906000	10383000	481330	373390	372560	0	0	0
KAMGYQPLVTMDDAMER	NSDHL	Q15738	NSDHL	HUM	3 Oxidation (M)	610860	494330	0	31280	29169	0	0	0	0
KAMKGFGTDEQAIVDVVANR	ANXA7	P20073	ANXA7	HUM	Oxidation (M)	2404300	1812800	2932300	0	0	0	0	0	0
KANIPIMDTGENPEVPFPR	ATP6V0A1; ATP6V0	Q93050; B7Z641;	VPP1	HUMA	Oxidation (M)	2397700	0	2193900	49507	76067	55058	0	0	0
KANLQIDQINTDLNLER	MYH9	P35579	MYH9	HUM	Deamidation (N)	4644000	4109000	4678600	46644	42244	0	139010	0	46026
KANLQIDQINTDLNLER	MYH9	P35579	MYH9	HUM	Unmodified	6179300	5109700	6303200	45343	38430	13836	163360	0	64955
KANYAVDAYFR	SMARCA1; SMARC;	P28370; O60264;	SMCA1	HUM	Unmodified	1218700	1012200	1655400	0	0	0	0	0	0
KAPAQGEEPGTPPSSPLSAEQLDR	UNG; UNG; UNG	P13051; Q68DM5	UNG	HUMA	Unmodified	5124000	3991800	4346800	0	0	0	0	0	0
KAPDFVFYAPR	RDX; EZR; MSN; RI	P35241; P15311;	RADI	HUMA	Unmodified	3745800	3253700	3474100	55192	85636	127830	0	0	0
KAPGFGGFGSSAVSGGSTAAMITETIIETDKPK	ARCN1; ARCN1	P48444; B0YIW6	COPD	HUMA	Oxidation (M)	0	1293600	1260500	0	0	0	0	0	0
KAPGSDPFMSSGQGPNGGMGDPYSR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	2 Oxidation (M);De	1777100	2087800	1621000	48567	55507	48218	0	0	0
KAPLNIPGTPVLEDFPQNDDEKER	NCAPH; NCAPH; NC	Q15003; E9PHA2	CND2	HUMA	Deamidation (N)	0	771240	1349100	0	0	0	0	0	0
KAPSDLYQIILK	CAPN1; CAPN1	P07384; E9PL37	CAN1	HUMA	Unmodified	1896300	710890	1234800	0	0	0	0	0	0
KAQAQPVM	ATP5PB; ATP5PB	P24539; Q5QNZ2	ATP5F1	HUM	Oxidation (M)	1133800	1296200	1252000	224630	210000	220610	0	0	0
KAQDEGLLSDVVPFK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUMA	Unmodified	2742800	1577600	1946700	14599	14695	12230	0	0	0
KAQDEGLLSDVVPFKVPGK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUMA	Unmodified	627750	595800	1000000	0	0	0	0	0	0
KAQDEGLLSDVVPFKVPGKDTVTK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUMA	Unmodified	1685300	1174400	1665300	0	0	0	0	0	0
KAQDEGLLSDVVPFKVPGKDTVTK	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUMA	Methyl (KR)	1330000	1542300	1282200	0	0	0	0	0	0
KAQPAQPADEPAEKADEPMEH	PSMA1; PSMA1	P25786; F5GX11	PSA1	HUMA	Oxidation (M)	13819000	12538000	11671000	2433000	1434300	1323100	0	0	0
KAQQELEEQTRR	MSN	P26038	MOES	HUM	Unmodified	0	0	2037800	0	0	0	0	0	0
KASGPPVSELITK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMAN	Unmodified	339620000	274060000	261610000	3605900	3626900	2993000	244850	209540	262210
KASGPPVSELITK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMAN	Methyl (KR)	48758000	30714000	44987000	167220	117800	74007	0	0	0
KASGPPVSELITKAVAASK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMAN	Methyl (KR)	10045000	10228000	9138400	0	0	13867	0	0	0
KASGPPVSELITKAVAASK	H1-3; H1-4; H1-2	P16402; P10412;	H13	HUMAN	Unmodified	884700	4812600	3974800	116650	89418	0	0	0	0
KASPPSGLWSPAYASH	NUP210	Q8TEM1	PO210	HUM	Unmodified	1905400	1671600	1635000	277300	274090	167650	51669	0	58689
KASVVDPSTESSPAPQEGSEQPASPASPLSSR	TBC1D9B	Q66K14	TBC9B	HUM	Unmodified	0	1362400	0	0	0	0	0	0	0
KATGPPVSELITK	H1-5	P16401	H15	HUMAN	Unmodified	6079400	21296000	0	0	297620	315760	0	0	0
KATQASQEY	H2AX	P16104	H2AX	HUM	Unmodified	771120	908840	0	841520	0	933580	4793.3	43905	0
KATQQAEQLSNELATER	MYH11	P35749	MYH11	HUM	Unmodified	0	0	0	95253	86309	0	4212700	3342700	3936800
KATQQAEQLSNELATER	MYH11	P35749	MYH11	HUM	Deamidation (N)	0	0	0	0	0	20462	435680	427800	468320
KAVDAGLNVMPYIK	ACO1	P21399	ACOC	HUM	Oxidation (M)	1309800	1146100	1321600	90521	45487	100620	0	0	0
KAVEAAQLAEDLKVQLEHVQTR	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B	HUM	Unmodified	1265800	0	0	0	0	0	0	0	0
KAVQGGGATPVVGAVQGPVPGMPPMTQAPR	SNRPA; SNRPA; SNI	P09012; M0QZG7	SNRPA	HUM	2 Oxidation (M)	4291100	2963900	2958100	0	270310	79451	0	0	0
KAVTDFTSEVTYDPAGR	WARS2	Q9UGM6	SYWM	HUM	Unmodified	1021700	982430	996840	45234	0	0	13064	0	0
KAVTGENNFTDTMR	FAM193A; FAM193A	P78312; E7EUR8	F193A	HUM	Oxidation (M);2 De	0	0	1161500	0	155650	100920	0	0	0
KAVVCPK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	1305200	1279100	2722200	0	0	0	0	0	0
KAVVCPKDEDYKQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	7316300	9654900	8775100	626720	571680	524550	24711	35316	0
KAYGQALAK	TKT; TKT	P29401; A0A0B4J	TKT	HUMAN	Unmodified	0	0	0	835160	1021600	870370	0	46773	0
KCEPIIMTVPR	CORO1C; CORO6; C	Q9ULV4; Q6QEF	COR1C	HUM	Oxidation (M)	3752100	3285300	4047600	0	155530	0	0	0	0
KCEPIVMTVPR	CORO1B	Q9BR76	COR1B	HUM	Oxidation (M)	0	0	601160	0	0	0	0	0	0
KDCEVVMMGLPGAGK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	2 Oxidation (M)	8304800	5959100	7034600	262520	236180	221360	0	0	0
KDDEEEDPLDQLISR	COA4	Q9NYJ1	COA4	HUMA	Unmodified	0	441100	640930	17423	12520	18351	0	0	0
KDDEENYLDLFSHK	KHDRBS1	Q07666	KHDR1	HUM	Unmodified	1664200	1502900	1954000	0	0	0	0	0	0
KDDEVQVVR	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26	HUMA	Unmodified	970150	1630600	1820700	61884	98417	90011	0	0	0
KDDPLTNLNTAFDVAEK	ACTN1; ACTN1; AC	P12814; G3V2W4	ACTN1	HUM	Unmodified	0	1417200	899720	0	0	0	0	0	0
KDDPLTNLNTAFDVAEK	ACTN1; ACTN1; AC	P12814; G3V2W4	ACTN1	HUM	Deamidation (N)	882160	812180	1212100	0	0	0	0	0	0
KDDPTLLSSGR	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT	HUM	Unmodified	1485900	1212800	1402400	0	0	0	0	0	0
KDDPVTNLNNAFEVAEK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Deamidation (N)	1285500	1394300	1541300	106800	104040	101610	0	0	0
KDEDAFLGDPDTDPDSFLK	GGT7	Q9UJ14	GGT7	HUM	Unmodified	929890	634480	600910	0	0	0	0	0	0

KDEEGQKEEDKPR	PSIP1	O75475	PSIP1_HUMA	Unmodified	834380	443710	847070	0	41577	0	0	0	0
KDEELDPMDPSSYSDAPR	PQBP1; PQBP1	O60828; H7C053	PQBP1_HUM	Oxidation (M)	3792600	3269000	4170100	113870	119150	114460	0	0	0
KDEKMNISGKK	ARFGAP3; ARFGAP	Q9NP61; H0Y6A(	ARFG3_HUM	Oxidation (M);Deai	0	0	5910400	0	0	0	0	0	0
KDEKTDTLEDLFPTTKIPNPR	XRCC5	P13010	XRCC5_HUM	Unmodified	0	3533700	0	0	0	0	0	0	0
KDEPDAFKELGTGNR	P4HA1	P13674	P4HA1_HUM	Unmodified	1699200	1571600	333650	0	0	0	0	0	0
KDETNVK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Unmodified	0	495150	208500	258510	50507	104690	0	0	0
KDFTQLFPR	MAPK13	O15264	MK13_HUMA	Unmodified	794350	933590	0	0	0	0	0	0	0
KDGNASGTTLLEALDCILPPTRPTDKPLR	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Deamidation (N)	2107700	1432900	575480	0	0	0	0	0	0
KDGTVTAGNASGVADGAGAVIIASEDAVK	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
KDLQDPNLQGEPPK	TET1	Q8NFU7	TET1_HUMA	Deamidation (N)	0	0	1827100	0	0	0	12388	0	0
KDLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUMA	Oxidation (M);Metl	16307000	14854000	14733000	66998	41025	0	0	0	0
KDLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUMA	Oxidation (M);Metl	10159000	8840000	12248000	74677	0	26716	0	0	0
KDLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUMA	Oxidation (M);2 De	0	0	0	0	0	0	0	0	0
KDLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUMA	Oxidation (M)	976440	737730	0	0	27973	0	244810	141140	133020
KDLYANNVLSGGTTMYPGIADR	ACTC1; ACTA2; AC	P68032; P62736; I	ACTC_HUMA	Oxidation (M);Deai	0	0	0	0	0	0	551370	434110	456820
KDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	Oxidation (M)	111430000	109950000	107390000	1371000	1237800	913030	0	121210	153660
KDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	Oxidation (M);Metl	38442000	38330000	40667000	359550	216010	0	0	0	0
KDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	Oxidation (M);Deai	45281000	26321000	42808000	359180	260460	659870	24263	44585	85012
KDLYANTVLSGGTTMYPGIADR	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	Oxidation (M);Metl	18164000	13510000	16175000	84023	0	158970	0	0	0
KDLYANTVLSGGTTMYPGIADRMQK	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	2 Oxidation (M)	3386800	4678900	519500	0	0	65359	0	0	0
KDLYANTVLSGGTTMYPGIADRMQK	ACTG1; ACTB; ACT	P63261; P60709; :	ACTG_HUMA	2 Oxidation (M);De	0	0	3058500	107490	0	0	0	0	0
KDMVDPVTGDKLTDRDIIVLQR	NOSIP; NOSIP	Q9Y314; A0A075	NOSIP_HUMA	Oxidation (M)	0	1175600	1192900	11415	0	0	0	0	0
KDNPNRGNVNPRK	WASF2	Q9Y6W5	WASF2_HUM	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
KDPSGASNPSADSPLHR	FOXA1	P55317	FOXA1_HUM	Unmodified	1921600	2201800	1845900	291680	198840	189220	0	0	0
KDQGELER	MYH9	P35579	MYH9_HUM	Unmodified	712530	392930	0	45699	64845	68471	0	0	0
KDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	559100	815360	656000	32277	32806	49862	0	0	0
KDSAIQQQVANLQMK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1655700	1328900	1172900	47404	0	52551	0	0	0
KDSETGENIR	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	3765400	3613400	2672600	401110	266900	169300	0	0	0
KDSETGENIRQAASSLQQASLK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	1592000	1500600	0	0	0	0	0	0	0
KDSKNDNFK	NUP153	P49790	NU153_HUM	2 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
KDVLETFTVK	CD9; CD9; CD9; CD9	P21926; A0A7I2V	CD9_HUMAN	Unmodified	3867200	2421800	2621800	164200	157630	146310	0	0	0
KDWDDDQND	CCT8; CCT8	P50990; H7C2U0	TCPQ_HUMA	Unmodified	558180	674120	769290	40194	0	38024	0	0	0
KDYQTSPLLETQAEDHPPR	SCIN	Q9Y6U3	ADSV_HUMA	Unmodified	9520100	6381300	5292200	0	66362	0	0	0	0
KEAESSPFVER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	13516000	12470000	10306000	407500	550320	506080	0	0	0
KEAESSPFVER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Methyl (KR)	1029900	1422400	1175100	0	38853	0	0	0	0
KEAVTFDQANPTQILGK	PLAA; PLAA; PLAA	Q9Y263; H0YC16	PLAP_HUMA	Unmodified	2203400	3340600	1733000	43589	28398	31955	0	0	0
KEDALLYQSK	EMD; EMD	P50402; Q5HY57	EMD_HUMA	Unmodified	711450	677130	779360	75960	0	0	0	0	0
KEDGTFYEFGEDIPEAPER	NARS1	O43776	SYNC_HUMA	Unmodified	2653900	2224700	1927700	0	34791	0	0	0	0
KEDLELIMTEMEISR	HYPK	Q9NX55	HYPK_HUM	2 Oxidation (M)	0	809150	1379100	0	0	0	0	0	0
KEDLVFIFWAPESAPLK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1_HUMA	Unmodified	330820	179700	484050	0	0	0	0	0	0
KEDLVFIFWAPESAPLKSK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1_HUMA	Methyl (KR)	1576000	660030	2425800	0	0	0	0	0	0
KEDLYLKPIQR	EEF2	P13639	EF2_HUMAN	Unmodified	3243100	2347500	2635600	62602	0	55972	0	0	0
KEDMEYALR	SRSF9; SRSF9	Q13242; H0YIB4	SRSF9_HUM	Oxidation (M)	0	2889300	0	144480	148290	127870	0	0	0
KEDMTYAVR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Oxidation (M)	9765100	8003000	7789200	0	0	0	0	0	0
KEECPAVR	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1_HUM	Unmodified	0	0	306550	0	0	0	0	0	0
KEEEKMEVDEAEKK	PSMD1; PSMD1; PSI	Q99460; A0A7I2V	PSMD1_HUM	Oxidation (M);4 M	0	231890	299250	0	0	0	0	0	0
KEEELQAALAR	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14_HUM	Unmodified	1714400	615500	1963000	29063	25773	35819	0	0	0
KEEENASVIDSAELQAYPALVVEK	PRKDC	P78527	PRKDC_HUM	Unmodified	1383700	1937000	1304600	0	0	0	0	0	0
KEEENASVIDSAELQAYPALVVEK	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	1124400	711460	0	0	0	0	0	0	0
KEEGEAFAR	RAB2A; RAB2A	P61019; H7C125	RAB2A_HUM	Unmodified	3447600	3378600	4128400	0	0	389440	0	0	0
KEEKEHR	UPF3B	Q9BZI7	REN3B_HUM	Acetyl (Protein N-t	635990	518790	667790	0	0	0	0	0	0
KEELNAISGPNEFAEFYNR	SF3A3	Q12874	SF3A3_HUM	Unmodified	481030	532040	614440	0	0	0	0	0	0
KEELVPSEEDFQGITPGAQGPSSR	RNF40; RNF40	O75150; H3BP71	BRE1B_HUM	Unmodified	1460100	0	1906600	0	45674	33065	0	0	0
KEENLADWYSQVITK	EPRS1	P07814	SYEP_HUMA	Unmodified	0	352050	413450	0	0	0	0	0	0
KEESEESDDDMGFGLFD	RPLP1; RPLP2; RPL	P05386; P05387; I	RLA1_HUMA	Oxidation (M)	854240	514320	514550	0	0	0	0	0	0
KEFSPFGTITSAK	PABPC1; PABPC1; P	P11940; A0A087	PABP1_HUM	Unmodified	10393000	10088000	14166000	241920	229040	242310	0	15824	18510
KEGDLIAAQAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	0	0	0	0	133330	0	0	0	0
KEGGLGPLNIPLLADVTR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	180700000	183660000	150370000	0	0	0	0	0	0
KEGGLGPLNIPLLADVTR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Methyl (KR)	7834300	5444200	7891100	0	0	0	0	0	0
KEGGLGPLNIPLLADVTR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Deamidation (N)	884730	717600	981490	0	0	0	0	0	0
KEGGLGPLNIPLLADVTRR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	44779000	30252000	44447000	0	0	0	0	0	0
KEGGLGPLNIPLLADVTRR	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Methyl (KR)	3313900	876940	3677500	0	0	0	0	0	0
KEGNASGVSLLEALDTILPPTRPTDKPLR	EEF1A2; EEF1A2	Q05639; A0A2U3	EF1A2_HUM	Deamidation (N)	582140	334620	0	0	0	0	0	0	0
KEIDKSKDK	NKIRAS2; NKIRAS2;	Q9NYR9; K7ERG	KBRS2_HUM	2 Methyl (KR)	38019	29409	51833	0	0	0	0	0	0
KEIHTVPDMGK	PTPA; PTPA; PTPA;	O15257; A6PVN5	PTPA_HUMA	Oxidation (M)	513960	152910	240320	0	0	0	0	0	0
KELEEDFIK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	1622200	1160400	2142700	0	0	0	0	0	0
KELEEDFIKSELKK	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	1701100	1876200	1696000	0	0	0	0	0	0
KELGGLEGDPSPEEDEGIQK	CNPY3	Q9BT09	CNPY3_HUM	Unmodified	5806300	4129400	4206000	112010	142500	213950	0	0	0
KELGLDEGVDSLK	DNAJC9	Q8WXX5	DNJC9_HUM	Unmodified	0	1442000	1525200	0	0	0	0	0	0
KELPDPSQRPLGEPSAGLGEYLK	CBX8; CBX8	Q9HC52; C9J6K3	CBX8_HUMA	Unmodified	1429600	0	0	0	0	0	0	0	0
KELQAAGKSPEDLER	GPI; GPI	P06744; A0A2U3	G6PI_HUMA	Unmodified	1223800	1270200	1479500	77627	72646	43503	0	0	0
KELSDIALR	ALDOC; ALDOC; AI	P09972; J3QKP5;	ALDOC_HUM	Unmodified	386220	330260	412500	153280	155290	149690	36236	56731	31366
KEMQPTHPIR	YWHAB; YWHAZ; Y	P31946; P63104; I	1433B_HUM	Oxidation (M)	20925000	17335000	23650000	171820	208710	230540	0	0	0
KEMQPTHPIR	YWHAB; YWHAZ; Y	P31946; P63104; I	1433B_HUM	Oxidation (M);Metl	1210300	1873300	1862900	0	0	0	0	0	0
KENFNMMNALDQLPK	FNDC8	Q8TC99	FNDC8_HUM	Oxidation (M);2 M	0	0	962500	0	0	0	0	0	0
KENPLQFK	RDX; EZR; RDX; RI	P35241; P15311; I	RADI_HUMA	Unmodified	2434300	1891100	1745800	132650	153020	156510	0	0	0
KEPAVLELEGK	CAP1	Q01518	CAP1_HUMA	Unmodified	1934300	1954900	0	123810	0	0	0	0	0
KEPAVLELEGKK	CAP1	Q01518	CAP1_HUMA	Unmodified	792490	1315000	2186400	0	0	85263	0	0	0
KEPVDEDLYPEHYRK	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1_HUM	Unmodified	1531700	609640	868230	0	0	0	0	0	0
KEQDYTKLEEK	EEA1	Q15075	EEA1_HUMA	Unmodified	831120	0	0	0	0	0	0	0	0
KEQTADGVAVIPVLQR	NUDT5; NUDT5; NU	Q9UKK9; H0YEY	NUDT5_HUM	Unmodified	6683600	6831100	6015800	198900	122820	154770	0	0	0
KESDLNGAQIK	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	1150800	624900	1213900	0	0	0	0	0	0
KESPLLFK	MSN; MSN	P26038; V9GZ54	MOES_HUM	Unmodified	1117400	605940	927800	22522	23185	21042	0	0	0
KESYSIYVYK	H2BC19P; H2BC11;	Q6DRA6; P06899	H2B2D_HUM	Unmodified	16753000	14617000	17718000	294220	319830	333440	0	0	0
KESYSIYVYKVLK	H2BC19P; H2BC11;	Q6DRA6; P06899	H2B2D_HUM	Unmodified	1521700	1235900	2102000	70037	65005	61141	0	0	0
KESYSVYVYK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C_HUM	Unmodified	51396000	59355000	54166000	626150	557070	628700	0	0	0
KESYSVYVYK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C_HUM	Methyl (KR)	3681400	3429300	3290800	33187	39921	20055	0	0	0
KESYSVYVYKVLK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C_HUM	Unmodified	4898600	6241400	6593700	236710	312370	142070	0	0	0
KESYSVYVYKVLK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C_HUM	Methyl (KR)	5542300	4472300	5134500	51982	0	0	0	0	0
KETKPEPMEEDLPENK	STIP1; STIP1	P31948; F5H783	STIP1_HUMA	Oxidation (M)	1652400	997330	1253700	0	0	0	0	0	0
KETNNAAIIMK	GMFB; GMFB	P60983; G3V4P8	GMFB_HUM	Oxidation (M);Metl	236210	0	0	0	0	0	0	16653	0
KEVEGDDVPESIMLEMK	HNRNPUL2; HNRNI	Q1KMD3; H3BQ2	HNRL2_HUM	2 Oxidation (M)	4259800	2720100	3258000	84662	43318	111160	0	0	0
KEVSMDDHKLSLDELHR	ATP1A1; ATP1A1; A	P05023; Q5TC02;	AT1A1_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
KEWSGLLEELAR	PFKP; PFKP; PFKP;	Q01813; A0A7I2V	PFKAP_HUM	Unmodified	924100	1285900	1308300	0	0	0	0	0	0
KEYEQELSDDLHVER	MRPL55; MRPL55	Q7Z7F7; X6R631	RM55_HUMA	Unmodified	751350	805880	886120	0	0	0	0	0	0
KEYNSIGVSGFEIR	SLITRK4	Q8IW52	SLIK4_HUMA	Methyl (KR)	1390100	0	0	0	0	0	0	0	0
KFAADAVKLER	TALDO1	P37837	TALDO_HUM	Unmodified	0	0	565700	0	0	28223	0	0	0
KFAEAFEAIPR	CCT8	P50990	TCPQ_HUMA	Unmodified	806350	865970	723340	0	0	0	0	0	0
KFAETQPK	EEF1G	P26641	EF1G_HUMA	Unmodified	0	0	6298300	0	0	0	0	0	0
KFAREEIIPVAAEYDK	ACADM; ACADM; A	P11310; A0A7P01	ACADM_HUM	Unmodified	1074700	2289300	1469300	0	0	0	0	0	0
KFAREEIIPVAAEYDKTGEYPVPLIR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	14018000	14103000	14933000	0	0	0	0	0	0
KFDDENFILK	PPIE; PPIE; PPIE	Q9UNP9; E9PKY:	PPIE_HUMA	Unmodified	720340	462130	621130	9392.3	0	11203	0	0	0
KFDIEAWMPGR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM_HUM	Oxidation (M)	1254600	873060	963060	0	0	0	0	0	0
KFDLGQDVIDFTGHALALYR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Unmodified	1221100	0	473150	0	0	0	0	0	0
KFDLNSPWEAFPVYR	NDUFS3	O75489	NDUS3_HUM	Deamidation (N)	1514800	890800	980720	0	0	0	0	0	0
KFDLNSPWEAFPVYR	NDUFS3	O75489	NDUS3_HUM	Unmodified	1679900	1274700	1200800	0	0	0	0	0	0
KFDQLLAEEK	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14_HUM	Unmodified	2130100	1700900	2668800	75540	94572	99419	22598	21580	40429
KFDQLLAEEKAAVLR	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14_HUM	Unmodified	0	1903500	1263800	0	0	0	0	0	0
KFDQLLAEEKTISAK	MYH9	P35579	MYH9_HUM	Unmodified	1620800	1735700	1658800	45598	49092	100290	23467	45310	19356
KFDVNTSAVQVLIEHIGNLDR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	661620	0	332670	0	0	0	0	0	0
KFDVNTSAVQVLIEHIGNLDR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Deamidation (N)	192630	0	30249	0	0	0	0	0	0
KFEEEGNPYYSSAR	MCCC2	Q9HCC0	MCCB_HUM	Unmodified	962080	784010	737320	155140	180200	132580	49834	41980	0
KFEEFQTDMAAHEERVNEVNQFAAK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	1060800	1483500	2521800	158820	206080	0	0	0	0
KFESEILEAISQNSVVIIR	DHX9	Q08211	DHX9_HUMA	Deamidation (N)	431360	0	0	0	0	0	0	0	0
KFGDPVVQSDMK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Oxidation (M)	1688900	1073000	655720	0	0	0	0	0	0
KFGVVLDEIKPSSAPELQAVR	COPE; COPE; COPE	O14579; M0R061	COPE_HUMA	Unmodified	12364000	10855000	5528900	0	0	0	0	0	0
KFGYVDFESAEDLEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	27605000	29325000	24044000	0	11291	0	0	0	0
KFGYVDFESAEDLEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	5368400	5937200	5048600	0	0	0	0	0	0
KFLDGIYVSEK	RPL9; RPL9; RPL9; I	P32969; H0YV9	RL9_HUMAN	Unmodified	2305500	1833300	840380	32923	73772	0	0	0	0
KFLPLFDR	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Unmodified	17148000	13134000	14029000	64853	33655	58104	0	0	0
KFLPLFDRVLVER	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Unmodified	10132000	6438100	7940800	0	0	0	0	0	0
KFLSDPQVHTVLVER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1508700	2749300	2656300	0	49477	25418	0	0	0
KFLYYEMGYK	GPD2	P43304	GPDM_HUMA	Oxidation (M)	882880	620720	1239400	0	0	0	0	0	0
KFMDQHPEMDFSK	NUDC	Q9Y266	NUDC_HUM	2 Oxidation (M)	4762900	4888300	2520400	47616	0	55597	0	0	0
KFMNPFNMPNLYQK	STIP1; STIP1	P31948; F5H783	STIP1_HUMA	2 Oxidation (M)	7860800	5380800	7623700	45733	52614	53902	0	0	0
KFMNPFNMPNLYQKLESDPR	STIP1; STIP1	P31948; F5H783	STIP1_HUMA	2 Oxidation (M)	2402200	2584800	2829800	0	0	0	0	0	0
KFMQDPMEIFVDDETK	DDX39B; DDX39B; I	Q13838; Q5STU3;	DX39B_HUM	2 Oxidation (M)	629710	364000	1864600	0	0	0	0	0	0
KFNALFAQGNYSEAAK	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	4018300	2904200	2690100	138420	0	29986	0	0	0
KFNALFAQGNYSEAAK	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Deamidation (N)	4527200	3272500	5050200	80375	47302	53596	0	0	0
KFNGEDIDTISPTLGFNIK	ARL2; ARL2-SNX15	P36404; V9GYD0	ARL2_HUMA	Deamidation (N)	659660	608990	0	0	0	0	0	0	0
KFPSGTFEQVSQLVK	GC; GC; GC; GC	P02774; D6RF35;	VTDB_HUM	Unmodified	1083500	816300	735680	0	0	0	0	0	0
KFVGGSGQVSER	MAOB; MAOA	P27338; P21397	AOFB_HUMA	Unmodified	9541700	10051000	12420000	0	113490	0	0	0	0

KFVGPEGPYGVFAGR	PGRMC1	O00264	PGRC1_HUM	Unmodified	5013200	4695200	4440200	227020	202420	122980	79171	43332	16541
KFYPLEIDYGQDEEAVK	PARP1	P09874	PARP1_HUM	Unmodified	5282900	3839900	0	0	0	0	0	0	0
KFYPLEIDYGQDEEAVKK	PARP1	P09874	PARP1_HUM	Unmodified	1012500	2467400	2052200	0	0	0	0	0	26211
KGADIMYTGTVDCWR	SLC25A4; SLC25A6	P12235; P12236	ADT1_HUMA	Oxidation (M)	900880	977440	1224700	0	0	0	0	0	0
KGAFTDNER	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP_HUMA	Acetyl (Protein N-t	2561300	0	2511300	264990	0	316910	0	0	0
KGAVAEDGDELRTEPEAK	APEX1; APEX1; APE	P27695; A0A0C4	APEX1_HUM	Unmodified	13620000	12907000	9730000	1182000	1055500	1238400	0	12039	0
KGAVAEDGDELRTEPEAKK	APEX1; APEX1; APE	P27695; A0A0C4	APEX1_HUM	Unmodified	1052600	2365600	1974900	330440	509190	498990	0	0	0
KGDEVDGVDEVAK	PARP1; PARP1; PAR	P09874; A0A7I2	PARP1_HUM	Unmodified	1680700	1826400	1848100	0	37982	0	0	0	0
KGDIVDIKGMGTVQK	RPL21; RPL21; RPL	P46778; G3V1B3;	RL21_HUMA	Oxidation (M)	892130	634970	697640	0	25608	0	0	0	0
KGDMDELEKEMLSVEK	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A_HUM	2 Oxidation (M)	865210	665140	1619700	0	18625	0	0	0	0
KGDSSAEELK	RPL13	P26373	RL13_HUMA	Unmodified	1070000	975170	647450	120970	132310	144520	0	0	0
KGDSSAEELKLATQLTGPVMPVR	RPL13	P26373	RL13_HUMA	Oxidation (M)	5391600	5422200	1193900	0	0	0	15117	0	0
KGDTFSCMVGHEALPLAFTQK	IGHA1; IGHA1; IGHJ	P01876; A0A286	IGHA1_HUM	Oxidation (M)	2795000	1765400	2133100	0	0	0	0	0	0
KGDVEGSQSQDEGEGSGESER	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	1212200	1256400	1175700	32208	37569	38888	0	0	0
KGEDFVK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	4641700	299220	431120	557030	0	470360	0	0	10121
KGEESEGFLNPELLETSR	RBBP6; RBBP6; RBI	Q7Z6E9; A0A2R8	RBBP6_HUM	Unmodified	334760	440840	438700	14618	0	0	0	0	0
KGEFETGFEK	GSPT1; GSPT2; GSP	P15170; Q8IYD1;	ERF3A_HUM	Unmodified	1346600	1204700	1582300	94479	79053	0	0	0	0
KGEGAPIQGK	RRBP1; RRBP1	Q9P2E9; V9GY78	RRBP1_HUM	Unmodified	0	514740	544370	233430	502330	215440	0	0	0
KGEITGEVHMPSGK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Oxidation (M)	0	0	0	1128200	1037500	978650	0	0	0
KGEITGEVR	FLNA; FLNA; FLNA	P21333; H0YF3;	FLNA_HUMA	Unmodified	5110300	5739300	5747100	0	152880	0	0	0	0
KGEKDIPGLTDTTVPR	RPS6; RPS6	P62753; A2A3R5	RS6_HUMAN	Unmodified	2428400	2765600	2232600	0	81682	88106	0	0	0
KGEPVSAEDLGVSGALTVLMK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Oxidation (M)	1274000	1522200	1343000	0	0	0	0	0	0
KGESGQSWPR	PTGES3; PTGES3; P	Q15185; A0A087	TEBP_HUMA	Unmodified	3671600	3327100	4001900	178510	132240	147110	0	0	0
KGESQTDIEITR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Unmodified	2348300	1958800	3366400	0	41085	0	0	0	0
KGESQTDIEITREEDFTR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Unmodified	3617400	6557000	6805200	177460	263100	189590	0	0	0
KGFIGPGIDVPAPDMSTGER	GLUD1	P00367	DHE3_HUMA	Oxidation (M)	2719200	3192300	2458900	170800	169570	192170	0	0	0
KGFNEGLWEIDNNPK	PSIP1	O75475	PSIP1_HUMA	Unmodified	4049500	2105700	3520200	0	28788	20292	0	0	0
KGFSEGLWEIENNPTVK	HDGF	P51858	HDGF_HUMA	Unmodified	10294000	6101700	7503000	0	0	0	0	0	0
KGGETSEMYLIQPDSSVKPYR	FGB; FGB	P02675; D6RELS	FIBB_HUMA	Oxidation (M)	9137600	7558600	6316900	312450	190420	0	0	54545	100710
KGGSWIQEINVAEK	PRKDC	P78527	PRKDC_HUM	Unmodified	895390	746060	0	15725	0	0	0	0	0
KGHIYQGSEADSVFSGFLIFPSA	C1QA	P02745	C1QA_HUMA	Unmodified	336540	294060	566850	0	0	0	0	0	0
KGIPELEQYDPPELADSSGR	SCYL1; SCYL1; SCY	Q96KG9; E9PS17	SCYL1_HUM	Unmodified	1424500	1787400	1485100	31591	36236	0	0	0	0
KGIQEAQVELQK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1_HUM	Unmodified	0	2537700	4239100	0	111420	0	0	0	0
KGIQEAQVELQKASEERLLEEGVLR	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1_HUM	Unmodified	772710	1129600	0	0	0	0	0	0	0
KGISLNPEQWSQLK	SUB1	P53999	TCP4_HUMA	Unmodified	2204800	1347500	1551500	0	0	0	0	0	0
KGISLNPEQWSQLKEQISDIDDAVR	SUB1	P53999	TCP4_HUMA	Unmodified	10200000	4418900	7253900	0	0	0	0	0	0
KGIVDQSQQAYQEAFEISK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUMA	Unmodified	5382000	6136700	5356300	0	0	0	0	0	0
KGIVDQSQQAYQEAFEISK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUMA	Methyl (KR)	2613900	2123700	2020300	0	33771	29990	0	0	0
KGIVDQSQQAYQEAFEISKK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUMA	Unmodified	2245000	3491300	856110	0	0	0	0	0	0
KGKEDEGEEAASPMLQIQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	3621500	2506300	1811700	518130	289400	149590	0	0	0
KGLDPYNVLAPK	COX5B	P10606	COX5B_HUM	Unmodified	7460900	7248300	7196100	518520	494660	582790	50284	0	22022
KGLKEGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Unmodified	21270000	15724000	15066000	0	0	0	0	0	0
KGLKEGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Deamidation (N)	16368000	14921000	20249000	0	0	0	0	0	0
KGLKEGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Methyl (KR)	1308500	1228400	1220500	0	0	0	0	0	0
KGLKEGIPALDNFLDKL	EEF2	P13639	EF2_HUMAN	Methyl (KR);Deam	0	725380	830590	0	0	0	0	0	0
KGLVGPELHDR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1860200	2112300	1667900	162410	127560	157890	0	0	0
KGMLDPLEVHLLDFPNIVIK	PRPF8	Q6P2Q9	PRP8_HUMA	Oxidation (M)	213160	59510	96491	0	0	0	0	0	0
KGNNESYHYAR	GBE1; GBE1	Q04446; E9PGM4	GLGB_HUMA	Deamidation (N)	0	3212400	623300	0	0	0	0	0	0
KGNTLYVYGEDMTPTLLR	NELFE; NELFE; NEL	P18615; A0A0A0	NELFE_HUM	Oxidation (M)	1416500	1397300	1178200	17057	0	0	0	0	0
KGNTLYVYGEDMTPTLLR	NELFE; NELFE; NEL	P18615; A0A0A0	NELFE_HUM	Oxidation (M);Deam	1683600	1368200	1972500	23304	0	0	0	0	0
KGNYAER	H2AC6; H2AC18; H2	Q93077; Q6FI13;	H2A1C_HUM	Deamidation (N)	0	0	10265000	4377600	4618700	2096000	0	0	0
KGNYSER	H2AW; H2AC7; H2A	Q7L7L0; P20671;	H2A3_HUMA	Unmodified	2310700	2069700	1989100	0	0	0	0	0	0
KGPAPELQGVEVALAPEELELDPMAMTQK	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2_HUM	2 Oxidation (M)	2461300	2831100	2567100	0	0	0	0	0	0
KGPDEAEESQYDSGIESLR	NFKBIE; NFKBIE; N	O00221; H3BNC2	IKBE_HUMA	Unmodified	0	0	0	66089	0	70995	0	0	0
KGPEDTAQLAHAVLAK	STXBP2; STXBP2; S	Q15833; M0R0D4	STXB2_HUM	Unmodified	1813800	1454200	1309400	0	0	0	0	0	0
KGPEFTREFESVLVDAFSHVAR	RPRD1B	Q9NQG5	RPR1B_HUM	Unmodified	432160	449420	457340	0	0	0	0	0	0
KGPGLAVQSGDK	RBM14	Q96PK6	RBM14_HUM	Unmodified	433690	536360	576250	0	0	0	0	0	0
KGPPLGGGEGEAESADTMPFVMLTR	UPF2	Q9HAU5	RENT2_HUM	2 Oxidation (M)	1256400	3591200	0	52803	50951	36908	0	0	0
KGQAVDYEGSRTQEEIVAK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Unmodified	8160100	12367000	0	213190	0	88892	0	0	0
KGQTHTLEDFQR	HSD17B10; HSD17B	Q99714; Q5H928	HCD2_HUMA	Unmodified	3014000	3339300	1528200	105310	126720	79471	0	0	0
KGRSELIVVEGSSEPSELIK	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV_HUMA	Unmodified	2566600	0	1865000	40662	0	0	0	0	0
KGSLESPATDVFGSTEEGEKR	PSMD12	O00232	PSD12_HUMA	Unmodified	1383300	1540900	1630300	0	0	0	0	0	0
KGSVSHDTVQPR	REPS1; REPS1; REP	Q96D71; H0YDT	REPS1_HUM	Unmodified	283950	0	667090	84143	108470	102930	20700	19367	21418
KGTAVFWYNLFASGEGDYSTR	P4HA1	P13674	P4HA1_HUM	Unmodified	0	0	501990	0	0	0	0	0	0
KGTDDFDFAGSFQGPR	CEBPZ	Q03701	CEBPZ_HUM	Unmodified	585720	1079100	490290	21402	25730	31733	0	0	0
KGTDDSMTLQSQK	SAP18; SAP18	O00422; H7BZW6	SAP18_HUM	Oxidation (M)	1989200	1672700	2546000	36651	68922	78617	0	0	0
KGTDIMYTGTLDCWR	SLC25A5	P05141	ADT2_HUMA	Oxidation (M)	3258100	3634300	3713200	64672	0	34365	0	0	0
KGTDIMYTGTLDCWRK	SLC25A5	P05141	ADT2_HUMA	Oxidation (M)	1178200	664950	879780	0	0	0	0	0	0
KGTDVNVFNTILTTR	ANXA1	P04083	ANXA1_HUM	Unmodified	880790	953780	1277000	131280	93135	74457	0	0	0
KGTEVQVDDIKR	RUVBL2	Q9Y230	RUVB2_HUM	Unmodified	2031100	2638300	1832000	72484	56925	168210	0	0	0
KGTGLLSSDYR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	0	0	671330	44838	47531	44676	0	0	0
KGTVEGFEPADNKCLLR	SRP14; SRP14	P37108; H0YLA2	SRP14_HUM	Unmodified	1045000	1330400	1269700	129650	93320	136140	0	0	0
KGVAINFVKNDDIR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
KGVAINFVTEEDKR	EIF4A2	Q14240	IF4A2_HUMA	Deamidation (N)	2272100	2423400	2838700	250730	232100	262840	0	0	0
KGVAINFVTEEDKR	EIF4A2	Q14240	IF4A2_HUMA	Unmodified	3086200	5506700	5912300	1218100	1029700	867720	42549	33821	66549
KGVAINMVTEEDKR	EIF4A1	P60842	IF4A1_HUMA	Oxidation (M);Deam	10524000	7235900	12380000	318450	434770	308910	0	24931	7228.2
KGVAINMVTEEDKR	EIF4A1	P60842	IF4A1_HUMA	Oxidation (M)	7093900	7704000	7252000	473110	887910	790990	0	0	0
KGVITVKDGK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60_HUMA	Unmodified	0	0	2227500	0	0	0	0	0	0
KGVNLPGAAVDLPAVSEK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Unmodified	6220700	6889400	7089500	0	0	0	0	0	0
KGVNLPGAAVDLPAVSEKDIQDLK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Unmodified	20992000	17050000	17766000	0	0	0	0	0	0
KGVNLPGAAVDLPAVSEKDIQDLK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Methyl (KR)	2088400	2170600	1973100	0	0	0	0	0	0
KGVVKAEK	HMGB1P1; HMGB1	B2RPK0; P09429	HGB1A_HUM	Unmodified	1005800	317750	365470	0	0	0	0	0	0
KHEAFESDLAAHQDR	ACTN2; ACTN4; AC	P35609; O43707;	ACTN2_HUM	Unmodified	1566800	4649300	1213700	0	0	0	0	0	0
KHEAIETDIAAYEER	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Unmodified	1612100	3058600	2980400	0	66676	55472	0	0	0
KHIMGQNVADYMR	RPL5; RPL5	P46777; A0A2R8	RL5_HUMAN	2 Oxidation (M)	2949000	1820200	5260600	644850	311140	23054	0	0	0
KHISQISVAEDDDESLLGHLMIVGK	HINT1	P49773	HINT1_HUM	Oxidation (M)	2401600	0	0	0	0	0	0	0	0
KHISQISVAEDDDESLLGHLMIVGKK	HINT1	P49773	HINT1_HUM	Oxidation (M)	5497700	4354000	5162500	0	0	0	0	0	0
KHLEINPDHPIVETLR	HSP90AB1	P08238	HS90B_HUM	Unmodified	57234000	47431000	48727000	189760	141340	133690	0	0	0
KHLEINPDHPIVETLR	HSP90AB1	P08238	HS90B_HUM	Methyl (KR)	5732800	4148500	5058800	0	0	0	0	0	0
KHLEINPDHSIIETLR	HSP90AA1	P07900	HS90A_HUM	Unmodified	21037000	15073000	22806000	0	0	0	0	0	0
KHLEINPDHSIIETLR	HSP90AA1	P07900	HS90A_HUM	Methyl (KR)	5359300	4533000	4943900	0	0	0	0	0	0
KHPDADSLYVEEVDVGEIAPR	AIMP1; AIMP1	Q12904; A0A5F9	AIMP1_HUM	Unmodified	3538900	1538400	1656300	0	0	0	0	0	0
KHPDASVNFSEFSK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Unmodified	2184600	2614700	4572400	0	152330	78673	0	0	0
KHPDASVNFSEFSK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Deamidation (N)	822330	1947500	1439600	0	0	0	0	0	0
KHPDASVNFSEFSKK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Unmodified	934900	805600	313620	0	39971	0	0	0	0
KHPDSSVNFAEFSK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2_HUM	Unmodified	0	1658800	0	0	0	0	0	0	0
KHQALQAEIAGHEPR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	4073700	2797600	3044700	0	0	0	0	0	0
KHSQFIGYPITLFVEK	HSP90AA5P; HSP90	Q58FG0; P07900;	HS905_HUM	Unmodified	2591200	4048900	2757900	0	0	0	0	0	0
KHSQFIGYPITLFVEKER	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A_HUM	Unmodified	1774400	2646900	1929900	0	0	0	0	0	0
KHSQFIGYPITLYLEK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B_HUM	Unmodified	5212000	2689700	2596900	0	0	0	0	0	0
KHSQFIGYPITLYLEKER	HSP90AB1	P08238	HS90B_HUM	Unmodified	2603500	1611000	2282400	0	0	0	0	0	0
KIAVAAASKPAVEIKQEGDTFYIK	CRABP2; CRABP2	P29373; Q5SYZ4	RABP2_HUM	Unmodified	1569300	2786100	1691500	0	0	0	0	0	0
KIDGDTIIFSNVQER	NRCAM; NRCAM; N	Q92823; A0A087	NRCAM_HUM	Unmodified	736270	1988200	1712600	16001	0	0	0	0	0
KIDQEGKIPDETLEKLK	ACAD9; ACAD9; AC	Q9H845; A0A7P0	ACAD9_HUM	Unmodified	1257500	1233200	1604500	0	0	0	0	0	0
KIDYFER	EIF3A	Q14152	EIF3A_HUM	Unmodified	651140	1392900	4268300	0	29949	35144	0	0	0
KIEDLEKEVVR	PAWR; PAWR	Q96IZ0; H0YHP5	PAWR_HUM	Unmodified	0	0	0	0	0	0	0	0	0
KIEDLEKEVVRER	PAWR; PAWR	Q96IZ0; H0YHP5	PAWR_HUM	Unmodified	905760	1037200	878870	0	0	0	0	0	0
KIEEIKDFLLTAR	RPL38; RPL38; RPL	P63173; J3KT73;	RL38_HUMA	Unmodified	3469600	3896800	2692900	0	0	0	0	0	0
KIEESETIEDSSNQAAAR	OXR1; OXR1	Q8N573; H0YC07	OXR1_HUMA	Unmodified	634130	726000	575570	0	0	0	0	0	0
KIEFPLPDRR	PSMC4	P43686	PRS6B_HUM	Unmodified	1856900	930550	1459300	0	0	0	0	0	0
KIEFPMPNEEAR	PSMC3; PSMC3; PSI	P17980; E9PM69;	PRS6A_HUM	Oxidation (M)	0	1033100	614930	0	0	0	0	0	0
KIEFSLPDLEGR	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	2957900	1244500	1895400	0	0	0	0	0	0
KIEFSLPDLEGRTHIFK	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	719030	783280	556050	0	0	0	0	0	0
KIEPELDGSAQVTSHDASTNGLINFIK	GPI; GPI; GPI	P06744; K7EQ48;	G6PI_HUMA	Deamidation (N)	20063000	16879000	13229000	0	0	0	0	0	0
KIEQELTAAK	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	685970	665200	746350	0	0	0	0	0	0
KIEQELTAAKK	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	735310	1120400	1600300	0	0	0	0	0	0
KIEQVDKEDEITEK	NOP58	Q9Y2X3	NOP58_HUM	Unmodified	1053900	1366700	1166200	125180	127950	0	0	0	0
KIFEYETQR	EMD	P50402	EMD_HUMAN	Unmodified	890760	928280	892510	0	0	0	0	0	0
KIFVGGIKEDTEEYNLR	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Unmodified	6951400	1815800	4254000	0	0	0	0	0	0
KIFVGGIKEDTEEYNLRDYFEK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Unmodified	13714000	11736000	13071000	0	0	0	0	0	0
KIFVGGLNPEATEEK	HNRNPAB; HNRNP;	D6RBP3; D6RBZ(	D6RBP3_HUM	Unmodified	1947400	2487700	3639900	0	0	0	0	0	0
KIGEEEIQKPEEK	SF3A1	Q15459	SF3A1_HUM	Unmodified	0	1047700	1179100	0	0	123470	0	0	0
KIGQQPQQPGAPPQQDYTK	KHSRP; KHSRP; KH	Q92945; M0QYG	FUBP2_HUM	Unmodified	993450	1236400	612360	0	0	0	0	0	0
KIHSQEEALR	PDXK; PDXK	O00764; F2Z2Y4	PDXK_HUM	Unmodified	0	0	635010	0	0	0	0	0	0
KIIETPGIR	LRPPRC	P42704	LPPRC_HUM	Unmodified	2412400	2776600	3325100	138050	0	0	0	0	0
KIIKDGEQHEDLNEVAK	AIFM1; AIFM1; AIFM	O95831; E9PMA0	AIFM1_HUM	Unmodified	490170	569050	781180	0	0	0	0	0	0
KIKDPDASKPEDWDER	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Unmodified	5252500	5532300	5919100	23208	0	0	0	0	0
KIKEGVEEAAK	TIMM44; TIMM44	O43615; M0QXU	TIM44_HUM	Unmodified	191010	130030	116030	0	0	0	0	0	0
KIKETVDQVEELRR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	943890	617310	800590	0	0	0	0	0	0
KILDSVGIEADDDRLNK	RPLP2	P05387	RLA2_HUMA	Methyl (KR)	0	781630	556380	0	0	0	0	0	0
KIMQDKEK	C1orf198	Q9H425	CA198_HUM	Oxidation (M)	0	0	985420	0	0	0	0	0	0
KIMSSPLSK	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26_HUMA	Oxidation (M)	859710	0	0	45434	45169	37232	0	0	0

KINPENSKLSDLDSETR	NUDC	Q9Y266	NUDC_HUM	Deamidation (N)	775810	903140	1068600	0	0	0	0	0	0
KIPNPDFFEDLEPFR	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUM	Unmodified	27015000	23376000	22796000	0	0	0	0	0	0
KIPNPDFFEDLEPFR	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUM	Methyl (KR)	5174600	4789100	3788800	0	0	0	0	0	0
KIQALQQQADEAEDRAQGLQR	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4_HUM	Unmodified	5730900	6676500	5445600	52305	0	0	0	0	0
KIQASTMAFKQMEQISQFLQAAER	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	2 Oxidation (M)	4977000	4856300	681850	0	0	0	0	0	0
KIQELFHVEPGLQR	UHRF1; UHRF1; UHI	Q96T88; A0A087	UHRF1_HUM	Unmodified	1419200	705660	740550	0	0	0	0	0	0
KIQGIEEYKK	DYNC1LI1; DYNC1I	Q9Y6G9; C9JLW	DC1L1_HUM	Unmodified	2552900	2877000	3114100	33261	0	59645	0	0	0
KIQNDAGVR	FUBP1; FUBP3; KHS	Q96AE4; Q96I24;	FUBP1_HUM	Unmodified	673090	502790	690370	29867	24861	59709	0	0	0
KIQVLQQQADDAEER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Unmodified	554020	614770	23407000	0	0	0	0	0	0
KIQVLQQQADDAEERAER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Unmodified	44793000	48970000	45886000	161950	281920	234710	71904	47368	0
KIQVLQQQADDAEERAER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Methyl (KR)	684500	1433300	1713600	0	0	0	0	0	0
KIQVLQQQADDAEERAERLQR	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Unmodified	4007000	4281200	3390400	0	0	0	0	0	0
KISEIEDAAFLAR	ERLIN2; ERLIN2	O94905; E5RHW4	ERLN2_HUM	Unmodified	1070900	608560	814600	101180	0	78607	0	0	0
KISELDAFLKEPALNEANLSNLK	PSME1	Q06323	PSME1_HUM	Unmodified	0	1201100	1912400	0	0	0	0	0	0
KISGGSVVEMQGDEMTR	IDH1; IDH1; IDH1; I	O75874; C9J4N6;	IDHC_HUMA	2 Oxidation (M)	773730	583540	1237000	65047	0	75446	0	0	0
KISLEDIQAFEK	DNAJC9	Q8WXX5	DNJC9_HUM	Unmodified	2520100	4308400	4374100	0	0	0	0	0	0
KISNQFDWALMR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Oxidation (M)	1728100	2054500	997750	0	0	0	0	0	0
KISSDLDGHPVPK	TKT; TKT; TKT	P29401; F8W888;	TKT_HUMAN	Unmodified	0	0	0	0	236060	203910	0	0	0
KISSIQSIVPALEIANAHR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	4968100	2485700	4495200	0	0	0	0	0	0
KISSIQSIVPALEIANAHR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Methyl (KR)	974300	0	1046700	0	0	0	0	0	0
KISSIQSIVPALEIANAHR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Deamidation (N)	1469400	1915800	1588800	0	0	0	0	0	0
KISSPTGSK	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	1064600	1098200	1347800	74069	78615	101650	0	0	0
KISSPTGSKDLQMVNISLR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Oxidation (M)	839470	795740	740530	38258	31440	25496	0	0	0
KISVVSATK	ACIN1; ACIN1; ACI	Q9UKV3; G3V3T	ACINU_HUM	Unmodified	2074800	2351400	2361500	170490	200070	164670	0	0	21198
KITESVAETAQTIKK	SYAP1	Q96A49	SYAP1_HUM	Unmodified	509480	790070	510100	0	0	0	0	0	0
KITIGQAPTEK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	1809100	1509400	1441600	34556	0	48426	0	0	0
KIVDQIRPDR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	Unmodified	1621700	1096600	1227000	0	43109	43959	0	0	0
KIVEGISQPIWLVSDTR	PMVK	Q15126	PMVK_HUM	Unmodified	1269200	1725400	1034700	0	0	0	0	0	0
KIWCFGPDGTGPNILTDITK	EEF2	P13639	EF2_HUMAN	Unmodified	7794500	5458100	6262700	0	0	0	0	0	0
KIYEDGDDDMKR	CACYBP	Q9HB71	CYBP_HUMA	Oxidation (M)	1128700	3094600	2091800	0	0	0	0	0	0
KKDAMYGNFMLKK	ANKRD18A	Q8IVF6	AN18A_HUM	2 Oxidation (M)	569580	555850	666370	0	0	0	0	0	0
KKDLSLEEIQK	STMN1; STMN2; STI	P16949; Q93045;	STMN1_HUM	Unmodified	14863000	14093000	15887000	24537	0	0	0	0	0
KKDLSLEEIQK	STMN1; STMN2; STI	P16949; Q93045;	STMN1_HUM	Methyl (KR)	2045500	396130	898550	0	0	0	0	0	0
KKDQVTAQEIFQDNHEDGPTAK	XRCC5	P13010	XRCC5_HUM	Deamidation (N)	3445000	2826400	3182200	0	0	0	0	0	0
KKEIEELQSQAQALSQEGK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	7759700	7256000	6364400	462890	216930	75970	0	0	0
KKELEEIVQPIISK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	62864000	46297000	48059000	149160	0	107790	0	27691	0
KKELEEIVQPIISK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Methyl (KR)	6364100	5917400	6899300	0	0	0	0	0	0
KKEQKEQK	TBATA	A0A0A0MSR7	A0A0A0MSR7	Methyl (KR)	163030	319080	427790	35480	47519	0	0	0	0
KKESDLPSAILQTSGVSEFTK	CDC5L	Q99459	CDC5L_HUM	Unmodified	3308600	1033800	1945400	0	0	0	0	0	0
KKEVPAVPETLK	RPL7	P18124	RL7_HUMAN	Unmodified	1525200	1512900	1298400	0	0	0	0	0	0
KKFEEDLLLLEDQNSK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
KKHLEDEL	TXNDC12	O95881	TXD12_HUM	Unmodified	1240000	1744700	2175400	732850	642210	785230	0	37986	33026
KKIEEAMDGSETPQLFTVLPEKR	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2_HUM	Oxidation (M)	1210700	3617700	4773700	136540	114410	101810	0	0	0
KKIEPEAVLQTR	EPB41L1; EPB41L1;	Q9H4G0; H7C2K4	E41L1_HUM	Unmodified	0	0	1062400	0	0	43225	0	0	0
KKIPDPDSDDVSEVDAR	SMARCA4; SMARC	P51532; A0A2R8	SMCA4_HUM	Unmodified	1279100	1038800	1190700	0	0	51292	0	0	0
KKMQQNIQELEEQLEEEESAR	MYH9	P35579	MYH9_HUM	Oxidation (M)	2583800	2601300	0	0	0	0	0	0	0
KKNDIYGED	GDI2	P50395	GDIB_HUMA	Unmodified	2809600	2859700	3244900	561570	697170	595710	0	0	0
KKNDIYGED	GDI2	P50395	GDIB_HUMA	Deamidation (N)	3317600	4897400	5010900	669000	503720	784000	0	0	0
KKNEGVNWLRMASR	CHMP1A; CHMP1A;	Q9HD42; F8VVT7	CHM1A_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
KKNGPLEVAGAAVSAGHGLPAK	MACROH2A1; MAC	O75367; B4DJC3	H2AY_HUMA	Deamidation (N)	2988200	3142400	1690800	0	0	0	0	0	0
KKNLQYYDISAK	RAN; RAN; RAN; RA	P62826; J3KQE5;	RAN_HUMAN	Unmodified	1640500	1934300	2475300	0	0	0	0	0	0
KKQIEELKGQEVSPK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1_HUM	Unmodified	8504100	9846500	10404000	0	0	0	0	0	0
KKSPNELVDDLFK	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K6	NSF1C_HUM	Unmodified	0	4274700	3487400	32432	0	0	0	0	0
KKSSWLMLKGDADTR	ABLIM2; ABLIM2; A	Q6H8Q1; A0A7I2	ABLM2_HUM	Oxidation (M);3 M	0	0	112070	0	0	0	0	0	0
KKTPVTEQEEKLGMDDLTK	PDS5B; PDS5B	Q9NTI5; A9IYQ1	PDS5B_HUM	Oxidation (M)	503920	384470	454170	0	20284	0	0	0	0
KKVEAQLQELQVK	MYH9	P35579	MYH9_HUM	Unmodified	0	0	2652400	0	0	0	0	0	0
KKVEEDEEEEEEEEEEEEEEDE	HMGB3	O15347	HMGB3_HUM	Unmodified	6238400	5667200	8571300	0	0	0	0	0	0
KKVEEDEEEEEEEEEEEEEEDE	HMGB3	O15347	HMGB3_HUM	Methyl (KR)	639850	1012200	1010800	0	0	0	0	0	0
KKVEEVLEEEEEEYVVEK	CBX1; CBX1; CBX1;	P83916; C9JWS9;	CBX1_HUMA	Unmodified	3146500	4131800	3288800	0	0	0	0	0	0
KKWNLDELPKEEK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5_HUMA	Unmodified	953830	1277500	1115400	0	0	0	0	0	0
KLAAAEGLEPK	PPP1R2B; PPP1R2	Q6NXS1; P41236	IPP2B_HUMA	Unmodified	1978700	1674400	2309800	485610	536690	0	0	0	0
KLAAAEGLEPKYR	PPP1R2B; PPP1R2	Q6NXS1; P41236	IPP2B_HUMA	Unmodified	0	0	0	128600	143460	127020	0	0	0
KLADMYGGGEDD	CDH1; CDH3	P12830; P22223	CADH1_HUM	Oxidation (M)	341920	971550	421780	0	501200	576400	0	0	0
KLAEEEDLFDSAHPEEGDLDLASESTAHAQSSK	SAFB2; SAFB	Q14151; Q15424	SAFB2_HUM	Unmodified	6965100	3002200	5949600	0	0	0	0	0	0
KLAEENPDLQEAYIAK	GDAP1; GDAP1; GD	Q8TB36; A0A6Q8	GDAP1_HUM	Unmodified	0	1217300	1229500	0	0	0	0	0	0
KLAQQYYLVYQEPIPTAQLVQR	PSMA2; N/A; N/A; P	P25787; A0A7I2V	PSA2_HUMA	Unmodified	2233600	1900900	2219300	0	0	0	0	0	0
KLASQGDSISSQLGPIHPPPR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	10999000	6276200	9314900	349860	506850	343500	0	32914	0
KLDDDSDSPSFFEEKPEEPVVLALDPK	ADNP; ADNP; ADNF	Q9H2P0; A0A669	ADNP_HUM	Unmodified	1945000	1151000	1079600	0	0	0	0	0	0
KLDDTPSGAGKFPAGHSVIQLAR	CBX8; CBX8	Q9HC52; C9J6K3	CBX8_HUMA	Unmodified	1491800	2500000	2637700	0	137400	0	0	0	0
KLDEAVAEAHLGK	AHCY	P23526	SAHH_HUMA	Unmodified	906060	809110	1412500	0	0	0	0	0	0
KLDEAVAEAHLGKLNVK	AHCY	P23526	SAHH_HUMA	Unmodified	1284800	1403800	1337000	0	0	0	0	0	0
KLDEAVAEAHLGKLNVK	AHCY	P23526	SAHH_HUMA	Methyl (KR)	744010	1024000	1050400	0	0	0	0	0	0
KLDEKENLSAK	UBA2; UBA2	Q9UBT2; U3KQ9	SAE2_HUMA	Unmodified	1858700	3231400	1535800	267060	0	0	0	0	0
KLDELYGTWR	RPL4; RPL4	P36578; H3BM89	RL4_HUMAN	Unmodified	0	853150	884590	0	0	0	0	0	0
KLDLEAWFPGSGAFR	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Unmodified	901590	908950	1164800	0	0	0	0	0	0
KLDPAQSASRENLLEEQGSIALRQEQIDNQTR	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Unmodified	5717900	5856700	2368500	0	0	0	0	0	0
KLDPELHLDIK	ILF2; ILF2	Q12905; B4DY09	ILF2_HUMAN	Unmodified	1041700	1470600	1688500	0	0	0	0	0	0
KLDPGSEETQTLVR	EEF1G	P26641	EF1G_HUMA	Unmodified	27004000	62688000	62763000	1098500	718410	1169500	0	0	0
KLDPGSEETQTLVR	EEF1G	P26641	EF1G_HUMA	Methyl (KR)	2152000	2196300	2171500	0	72215	49202	0	0	0
KLDVEEPDSANSSFYSTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	1553900	1542600	1799100	391580	398400	412780	0	0	0
KLDVEEPDSANSSFYSTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Deamidation (N)	2184200	2816700	2108100	315210	319200	329050	0	10851	0
KLDVSIEMPEELDISQLR	USP5	P45974	UBP5_HUMA	Oxidation (M)	900790	0	764840	0	0	0	0	0	0
KLDYGQHVVAGTPGR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUMA	Unmodified	5226300	4592800	3922500	31646	40140	43737	0	0	0
KLEAAEDIAYQLSR	PHB; PHB	P35232; C9JZ20	PHB_HUMAN	Unmodified	17079000	2878200	15309000	72157	50062	0	38867	0	0
KLEAAEDIAYQLSR	PHB; PHB	P35232; C9JZ20	PHB_HUMAN	Methyl (KR)	9211500	9172500	8161100	56850	0	0	0	0	0
KLEAAEER	STMN1; STMN2; STI	P16949; Q93045;	STMN1_HUM	Unmodified	13651000	15373000	18178000	348060	50268	81014	0	0	0
KLEAAEERR	STMN1; STMN2; STI	P16949; Q93045;	STMN1_HUM	Unmodified	1655700	966360	1394300	0	0	0	0	0	0
KLEAELLQIEER	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1_HUM	Unmodified	1945600	1661400	1820900	16265	13437	0	0	0	0
KLEAELLQIEERHQEK	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1_HUM	Unmodified	3158000	2385800	1928500	0	0	0	0	0	0
KLEDGPKFLK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Methyl (KR)	0	0	1015100	0	0	0	0	0	0
KLEDQLQGGQLEEVILQAEHELNLAR	NDUFA5; NDUFA5;	Q16718; A0A7I2V	NDUA5_HUM	Unmodified	327350	0	0	0	0	0	0	0	0
KLEDSTRETQSQLETER	DSP	P15924	DESP_HUMA	Unmodified	1522300	2217700	2355700	97057	0	0	0	0	0
KLEEHEESLVGR	GOLGB1; GOLGB1;	Q14789; E7EU81;	GOGB1_HUM	Unmodified	0	2473800	1885300	0	0	82067	0	0	0
KLEEKEHLLQSNKGTGEKELGLR	RNF20	Q5VTR2	BRE1A_HUM	Unmodified	1446000	1043300	955670	0	0	0	0	0	0
KLEELEKEEELR	GTPBP4	Q9BZE4	GTPB4_HUM	Unmodified	675940	0	704650	0	0	0	0	0	0
KLEELELDEQQR	MAP2K1	Q02750	MP2K1_HUM	Unmodified	839870	0	1128800	0	0	0	0	0	0
KLEENPYDLDAWSILIR	CSTF3; CSTF3; CSTI	Q12996; E9PLP8;	CSTF3_HUM	Unmodified	0	0	248150	0	0	0	0	0	0
KLEGELTEEVEMAK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Oxidation (M)	1223300	2446900	3137300	0	0	0	0	0	0
KLEISSGK	PNPT1; PNPT1	Q8TCS8; H7BXF6	PNPT1_HUM	Unmodified	754200	601250	585290	0	0	0	0	0	0
KLEKEEEEGISQESSEEEQ	HMGA1	P17096	HMGA1_HUM	Unmodified	2713300	2617800	2050800	56214	42474	0	0	0	0
KLELDILPLQEANAELSEK	TPR	P12270	TPR_HUMAN	Deamidation (N)	0	0	1526200	0	0	0	0	0	0
KLELSENR	ANP32B	Q92688	AN32B_HUM	Unmodified	2222400	0	2281400	0	0	0	0	0	0
KLENSPLGEALR	OCIAD1; OCIAD1; O	Q9NX40; D6RG35	OCAD1_HUM	Unmodified	495490	0	516180	0	0	0	0	0	0
KLERPPETPTVDPTVKYER	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Unmodified	2462600	2630300	2235500	0	0	42604	0	0	0
KLESTESR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	0	0	0	2392600	295530	9119100	0	0	0
KLEVEANNAFDQYR	CAPZB; CAPZB; CA	P47756; A0A6B7	CAPZB_HUM	Deamidation (N)	705150	780050	318090	43140	45462	53401	29788	36655	24621
KLEVEANNAFDQYR	CAPZB; CAPZB; CA	P47756; A0A6B7	CAPZB_HUM	2 Deamidation (N)	993720	337770	353410	0	0	0	0	0	0
KLEVEYEQKR	WBP11; WBP11	Q9Y2W2; F5H5G	WBP11_HUM	Unmodified	681130	0	707950	0	0	0	0	0	0
KLEVNEAELLR	CAVIN1	Q6NZI2	CAVN1_HUM	Unmodified	0	142760	0	67971	125120	67394	0	0	24064
KLEWPLTEVAEGVFETEAPGGYK	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4_HUM	Unmodified	273610	227640	345700	0	0	0	0	0	0
KLFADAEEEQR	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Unmodified	2220300	1936200	2004500	117790	115700	77687	0	0	0
KLFEELVR	PKM; PKM	H3BTN5; H3BR7	H3BTN5_HU	Unmodified	2871000	2988500	2528000	0	0	0	0	0	0
KLFIGGLSFETTDDSLR	HNRNPA3; HNRNPA	P51991; A0A7I2V	ROA3_HUMA	Unmodified	0	3148900	3825000	0	0	0	0	0	0
KLFIGGLSFETTDDSLREHFEK	HNRNPA3; HNRNPA	P51991; A0A7I2V	ROA3_HUMA	Unmodified	22895000	8705800	15915000	0	0	0	0	0	0
KLFIGGLSFETTDESLR	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	51676000	35783000	37135000	16077	0	0	0	0	0
KLFIGGLSFETTDESLR	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Methyl (KR)	2757800	1914100	0	0	0	0	19269	0	0
KLFIGGLSFETTEESLR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	3598200	3518500	5047300	0	0	0	0	0	0
KLFIGGLSFETTEESLR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Methyl (KR)	2050400	0	0	0	0	0	0	0	0
KLFNLSKEDDVR	RPS6; RPS6	P62753; A2A3R5	RS6_HUMAN	Unmodified	600860	820300	628880	14695	0	0	0	0	0
KLFVGGIKEDTEEHHLR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	6774200	7830400	16279000	0	0	0	0	0	0
KLFVGGLK	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	4072000	0	2549500	0	0	0	0	0	0
KLGEMWNNLNDSEKQPYITK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Oxidation (M);2 De	1533000	2158700	1515100	0	0	0	0	0	0
KLGEMWNNTAADDKQPYEK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Oxidation (M);Deai	1521400	5310100	4372900	0	0	0	0	0	0
KLGEMWNNTAADDKQPYEK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Oxidation (M);2 De	2043200	876980	1910600	0	0	0	0	0	0
KLGEMWNNTAADDKQPYEKK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1_HUM	Oxidation (M);Deai	472950	528010	400750	0	0	0	0	0	0
KLGEMWSEQSAK	HMGB2	P26583	HMGB2_HUM	Oxidation (M)	4370300	3224800	2277100	0	0	124390	85832	0	29132
KLGEMWSEQSAKDDKQPYEQK	HMGB2	P26583	HMGB2_HUM	Oxidation (M)	1187500	1291900	1769100	0	0	0	0	0	0
KLGGANKEMTHLQK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Oxidation (M);3 M	344160	0	418970	0	0	0	0	0	0
KLGINSLQELK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52_HUM	Deamidation (N)	527860	1454100	2033800	0	0	0	0	0	0
KLGINSLQELKQNIAK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52_HUM	Deamidation (N)	632210	536850	431170	0	0	0	0	0	0
KLGQSESQGPPR	PSMD9; PSMD9; PSI	O00233; F5H169;	PSMD9_HUM	Unmodified	6809500	0	6302800	229630	0	0	0	0	0
KLHFEDEVTTSPVLGLK	INSM1	Q01101	INSM1_HUM	Unmodified	631350	409780	855870	0	0	0	0	0	0

KLJELQAGK	PRKCSH; PRKCSH;	P14314; K7EPW7	GLU2B	HUM	Unmodified	0	185880	1747400	0	49250	50770	0	40365	0
KLJQDQQEQIQHLK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Unmodified	1613900	0	1590400	0	0	0	0	0	0
KLJVDSVKELDSK	RAD21	O60216	RAD21	HUM	Unmodified	771480	620900	653290	0	0	0	0	0	0
KLKDYAFVHFEDR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	879390	1302500	899520	0	0	0	0	0	0
KLKELEVAEGGKAELER	CDC37; CDC37; CDC	O16543; K7EQA9	CDC37	HUM	Unmodified	754460	670250	686310	0	0	0	0	0	0
KLKFPEPQEVVEELKK	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH	HUM	Unmodified	843990	900800	1485900	0	0	0	0	0	0
KLKQKFDDLDMAEK	ANKRD18B; ANKRI	A2A2Z9; A2A300	AN18B	HUM	Oxidation (M)	1539600	1523300	742010	0	0	0	0	0	0
KLLAAEPLSK	COLGALT1	Q8NBJ5	GT251	HUM	Unmodified	1122100	940050	793970	0	15154	0	0	0	0
KLLDIVAR	TRAP1	Q12931	TRAP1	HUM	Unmodified	701640	668460	599690	0	0	0	0	0	0
KLLEDRLAEFSSQAAEEEEKVK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Unmodified	696770	500180	559650	0	0	0	0	0	0
KLLEGEEERLK	LMNB1; LMNB2	P20700; Q03252	LMNB1	HUM	Unmodified	5625900	5118100	715270	455400	361480	389030	21549	0	0
KLLEGEEERLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM,	Unmodified	3250100	5825200	5365900	663160	0	683910	0	0	0
KLLERLPEVEVPQHL	NUCB1	Q02818	NUCB1	HUM	Unmodified	2753800	1076800	1293700	0	0	0	0	0	0
KLLGLGQK	NASP; NASP; NASP;	P49321; E9PI86; (	NASP	HUM	Unmodified	1237100	1489000	1918000	0	0	0	0	0	0
KLLLDPSSPPTK	LAMTOR1; LAMTOI	Q6IAA8; H0YFI1;	LTOR1	HUM	Unmodified	0	1201400	937520	81460	91881	96236	0	0	0
KLLMMAGIDDCYTSAR	RPS2; RPS2; RPS2; F	P15880; E9PQD7;	RS2	HUMAN	2 Oxidation (M)	725190	622300	0	0	24289	0	0	0	0
KLLTEKDAQIAMMQQR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	2 Oxidation (M)	777810	909890	984160	62813	108050	84155	0	0	0
KLLTQDWVQENYLEYR	MAGEA9; MAGEA1(	P43362; P43363; I	MAGA9	HUM	Deamidation (N)	3177100	2804700	3085900	0	0	0	0	0	0
KLMCEINVMEAVRDIR	WDR46; WDR46; WI	O15213; H0Y6G3	WDR46	HUM	2 Oxidation (M)	513880	2111100	1052100	0	0	0	0	0	0
KLMSDNGVR	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2	HUM	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
KLMVALAK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Oxidation (M)	520470	567700	467870	429160	356300	464470	25780	23295	26391
KLMVEPLQAILIR	CUL2; CUL2; CUL2	Q13617; Q5T2B5;	CUL2	HUM	A Oxidation (M)	1347400	856450	1074600	0	0	0	0	0	0
KLNEQSPTR	SEC22B	O75396	SC22B	HUM,	Unmodified	821140	950910	1056500	18641	20077	0	0	11781	
KLNQALLDLHALGSAR	FTL	P02792	FRIL	HUMA	Unmodified	15807000	13245000	14070000	0	0	0	0	0	0
KLNQALLDLHALGSAR	FTL	P02792	FRIL	HUMA	Deamidation (N)	660070	3325500	1860000	0	0	0	0	0	0
KLNQALLDLHALGSAR	FTL	P02792	FRIL	HUMA	Methyl (KR)	447690	470800	1009100	0	0	0	0	0	0
KLNVTEQEK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA	HUM,	Unmodified	14454000	15599000	15966000	0	0	0	0	0	0
KLNVTEQEK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA	HUM,	Deamidation (N)	1393300	1290000	2115200	0	0	0	0	0	0
KLNVTEQEKIDK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA	HUM,	Unmodified	5792400	4739700	5516400	46591	59712	49109	0	0	0
KLNVTEQEKIDK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA	HUM,	Methyl (KR)	1428800	1268300	1695400	0	0	0	0	0	0
KLNVTEQEKIDKLMIEMDGTENK	ENO1; ENO1; ENO1;	P06733; A0A2R8	ENOA	HUM,	2 Oxidation (M)	9649700	6464800	8841700	0	0	16395	0	0	0
KLPDVPNPLQILYIR	FLAD1; FLAD1	Q8NFF5; Q5T196	FAD1	HUM	Unmodified	578390	992400	715110	0	0	0	0	0	0
KLPEYNPR	RCC2	Q9P258	RCC2	HUM	Unmodified	3529500	3271300	2966600	131940	189840	183900	0	12344	0
KLPGFPTQDDEVMMLTER	DDX47	Q9H0S4	DDX47	HUM	2 Oxidation (M)	1588600	609580	443220	0	0	0	0	0	0
KLPIDVTEGEVISLGLPFGK	PTBP1; PTBP1; PTB	P26599; K7ELW5	PTBP1	HUM,	Unmodified	2910500	625260	1753000	0	0	0	0	0	0
KLPIQEFHLSR	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Unmodified	4567000	3425500	4170000	0	0	0	0	0	0
KLPSVEGLHAIVVSDRDGVPVIK	LAMTOR3	Q9UHA4	LTOR3	HUM	Unmodified	969300	1851600	1861200	0	0	0	0	0	0
KLQATVQELQK	CORO1A; CORO1A	P31146; H3BRY3	COR1A	HUM	Unmodified	1977900	4639200	5571300	0	20017	0	0	0	0
KLQEEELLATQVDMR	CCDC50	Q8IVM0	CCD50	HUM	Oxidation (M)	0	0	892480	116790	0	95805	0	0	0
KLQGEVEKYQQLQK	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Unmodified	1590300	1323800	1654000	19193	0	0	0	0	0
KLQGEVEKYQQLQKDLSK	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Unmodified	1536000	1588100	1199100	0	0	0	0	0	0
KLQGGTPQEPPNPR	KLC2; KLC2	Q9H0B6; A8MZ8	KLC2	HUMA	Unmodified	2489400	0	1355700	95632	0	87684	0	0	0
KLQLEETMPSPYGR	TOP2B	Q02880	TOP2B	HUM	Oxidation (M)	2760700	1689500	1797300	139580	84019	93624	0	0	0
KLQLERPVSPETQADLQR	KIAA1522	Q9P206	K1522	HUM,	Unmodified	313490	839620	350730	126910	0	0	0	0	0
KLRETAEADVASLNR	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM	Unmodified	1278100	1124600	1219600	31484	20267	0	0	0	0
KLSFDFQ	WARS1	P23381	SYWC	HUM	Unmodified	7253400	6442900	4657600	824800	0	876350	487140	545750	0
KLSGLNAFDIAEELVK	MBD3; MBD3; MBD	O95983; A0A087	MBD3	HUM	Unmodified	434550	271310	0	0	0	0	0	0	0
KLSGLNAFDIAEELVK	MBD3; MBD3; MBD	O95983; A0A087	MBD3	HUM,	Deamidation (N)	404300	219680	397710	0	0	0	0	0	0
KLSSWDQAETPGHTPSLR	SF3B1	O75533	SF3B1	HUM,	Unmodified	2128300	2023000	2590200	0	122490	0	0	0	0
KLSVACFYGGTPYGGQFER	DDX21	Q9NR30	DDX21	HUM	Unmodified	1323700	769740	1310600	0	0	0	0	0	0
KLSVLITPYLGNK	N/A	N/A	N/A		Deamidation (N)	547360	0	623120	0	0	0	0	0	0
KLTATPTPLGGMTGFHMQTEDR	SF3B1	O75533	SF3B1	HUM	2 Oxidation (M)	5491500	5185900	5373400	407330	436710	425560	0	0	0
KLTATPTPLGGMTGFHMQTEDRTMK	SF3B1	O75533	SF3B1	HUM	3 Oxidation (M)	5401300	8061800	4997900	341350	354810	560100	0	0	0
KLTELSMQDEELMKR	TIMM10	P62072	TIM10	HUM	2 Oxidation (M)	7108600	6471200	4606100	0	0	0	0	0	0
KLTELSMQDEELMKRVQQSSGPA	TIMM10	P62072	TIM10	HUM	2 Oxidation (M)	1601800	0	951610	400200	48576	0	41390	0	0
KLTESDEEMNRLFLK	CCDC180; CCDC180	Q9P1Z9; A0A6E1	CC180	HUM	3 Methyl (KR)	429700	0	276340	0	0	0	0	0	0
KLTGKDVNFEPPEFQL	RPS7	P62081	RS7	HUMAN	Unmodified	4616800	2267100	0	0	0	0	0	0	0
KLTGKDVNFEPPEFQL	RPS7	P62081	RS7	HUMAN	Deamidation (N)	1619400	0	1790200	0	0	0	0	0	0
KLTGKDVNFEPPEFQL	RPS7	P62081	RS7	HUMAN	Methyl (KR)	1272000	981450	887290	0	0	0	0	0	0
KLTGMERDLVAIEAK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM,	Oxidation (M)	0	1098400	1039100	77796	80058	0	0	0	0
KLTPQGQR	RPS19; RPS19	P39019; A0A075	RS19	HUMA	Unmodified	1131600	1271400	1372800	85000	82268	73343	0	0	0
KLTTDPDLILEVLR	LARP4; LARP4; LAI	Q71RC2; A0A087	LARP4	HUM	Unmodified	92090	381130	208460	0	0	0	0	0	0
KLTVNPGTK	PARP1	P09874	PARP1	HUM	Unmodified	1448600	2331800	1073900	66550	241750	223450	0	0	0
KLVAIVDPHIK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	0	1282100	964110	0	0	0	0	0	0
KLVESLPQEIK	MRPL12; N/A	P52815; B4DLN1	RM12	HUM	Unmodified	3078900	3366000	4437700	0	0	0	0	0	0
KLVIIEGDLER	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3	HUM	Unmodified	5438500	7511800	1735600	242320	237920	208220	0	0	0
KLVIIEGDLERTEER	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3	HUM	Unmodified	6425600	6458500	5867200	0	81993	100520	0	0	0
KLVIIEGDLERTEERAELAESR	TPM3; TPM3; TPM3	J3KN67; A0A2R2	J3KN67	HUM	Unmodified	49475000	40878000	40318000	0	0	0	47992	0	0
KLVIIESDLER	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1	HUMA	Unmodified	0	327490	480300	58454	53306	42515	116750	0	159200
KLVIIESDLERAEER	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1	HUMA	Unmodified	1629700	1192700	2632500	94638	35506	21693	585200	282060	229140
KLVILEGELERAEER	TPM4; TPM4; TPM4	P67936; A0A2R8	TPM4	HUMA	Unmodified	610730	504890	478720	0	0	0	22885	0	0
KLVIPSELGYGER	FKBP2; FKBP2	P26885; A0A494	FKBP2	HUM	Unmodified	13689000	6822000	34909000	334880	265630	309630	0	0	23064
KLVIPSELGYGER	FKBP2; FKBP2	P26885; A0A494	FKBP2	HUM	Methyl (KR)	9110500	617490	772350	0	0	0	0	0	0
KLVNTINPGAR	UPF1	Q92900	RENT1	HUM	Deamidation (N)	468020	708930	1280800	0	0	0	0	0	0
KLVPLLLEDGGEAPAALEAALEEK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	638140	0	386840	0	0	0	0	0	0
KLVSQEEMEFIQR	MRPS36; MRPS36	P82909; D6R941	RT36	HUMA	Oxidation (M)	2365900	2080900	2203200	64733	95329	126350	0	0	0
KLVTDQNISENWR	ACP1; ACP1; ACP1	P24666; F2Z2Q9;	PPAC	HUMA	Unmodified	1579100	1463700	1546600	0	0	0	0	0	0
KLYAVGDNPMSDVYGANLFHQYLQK	HDHD5	Q9BXW7	HDHD5	HUM	Oxidation (M)	1438500	931230	846490	0	0	0	0	0	0
KLYDIDVAK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Unmodified	1239900	1536800	1714100	12000	37440	0	0	0	0
KLYGDADYLEER	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	1562700	986670	1376200	0	0	0	0	0	0
KMDETDASSAVK	TARDBP; TARDBP;	Q13148; A0A087	TADBP	HUM	Oxidation (M)	2115500	1847400	1628100	0	123830	118790	0	0	0
KMEMEMEQVFEMK	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM,	4 Oxidation (M)	462150	379750	391380	0	0	0	0	0	0
KMGLVDQLVEPLGPGLKPPEER	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM,	Oxidation (M)	1959500	1340700	1421000	0	0	0	0	0	0
KMILQQF	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM,	Oxidation (M)	1475200	1347900	1540800	0	15938	0	0	0	0
KMKDTDNEEEIREAFR	CALML3	P27482	CALL3	HUM	Oxidation (M);Deai	16408000	16140000	12813000	0	40971	0	0	0	0
KMKDTDNEEEIREAFR	CALML3	P27482	CALL3	HUM	Oxidation (M)	18133000	11223000	13409000	84634	52477	113810	0	0	0
KMKDTDSEEEIR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2	HUM	Oxidation (M)	7013300	6448700	7413700	265230	243190	186670	0	0	0
KMKDTDSEEEIREAFR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2	HUM	Oxidation (M)	363190000	475260000	502400000	8026700	9273600	5854400	545730	76324	327870
KMKDTDSEEEIREAFR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2	HUM	Oxidation (M);Met	11056000	9082000	9466100	252150	295660	390640	0	0	0
KMLYDMENPPADEYFGR	LPP; LPP	Q93052; A0A087	LPP	HUMAN	2 Oxidation (M)	672360	583610	490370	72998	78024	70989	54760	0	0
KMMADEALGSGLVSR	ECH1	Q13011	ECH1	HUM	A 2 Oxidation (M)	36317000	35036000	29275000	629920	593230	615020	0	0	0
KMMADEALGSGLVSR	ECH1	Q13011	ECH1	HUM	A 2 Oxidation (M);M	3019800	3385600	3747100	0	24142	95495	0	0	0
KMNRDYTRNASNLER	LUZP1; LUZP1	Q86V48; E5RFK8	LUZP1	HUM	Oxidation (M);2 De	1724200	1390200	1392400	100090	449040	349100	0	0	0
KMNVSPDVNYEELAR	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A	HUM	Oxidation (M);Deai	1069600	395530	1093900	177960	0	0	0	0	0
KMNVSPDVNYEELAR	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A	HUM	Oxidation (M)	5055200	5512500	4552900	0	0	0	0	0	27548
KMQPDQQVVINCAIVR	VASP; VASP	P50552; K7ENL7	VASP	HUM	Oxidation (M)	0	412690	620110	39400	48389	0	0	0	0
KMQQNIQELEEQLEEEESAR	MYH9	P35579	MYH9	HUM,	Oxidation (M)	884270	425450	547570	0	0	0	0	0	0
KMTGSNTEEIDSRIR	OXR1; OXR1	Q8N573; H0YC07	OXR1	HUMA	Deamidation (N)	5592900	6110400	0	80214	0	74698	0	0	0
KMTPSYEIR	DHX9	Q08211	DHX9	HUMA	Oxidation (M)	1951100	1994100	1792500	259840	304960	245580	0	0	0
KMVDPEKPQLGMIDR	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1	HUM	2 Oxidation (M)	1092800	999230	1431800	0	0	0	0	0	0
KMWEELPEVVR	BDH1; BDH1	Q02338; E9PCG9	BDH	HUMA	Oxidation (M)	1101400	908690	1040200	0	0	0	0	0	0
KNDKEAAGEGPALYEDPPDQK	APEX1; APEX1; API	P27695; A0A0C4	APEX1	HUM	Deamidation (N)	4008400	3737100	3522800	159690	167290	99604	0	0	0
KNEGVIEFVSYSDMKR	SRSF4; SRSF4	Q08170; A0A0D9	SRSF4	HUM,	Oxidation (M)	693800	805440	561490	66863	66605	55963	0	0	0
KNELFSNL	SLC9A3R1	O14745	NHRF1	HUM	Unmodified	1081500	906950	1122800	117310	111740	120790	16885	15158	0
KNFAKENSENKENR	UBAP2; UBAP2; UB	Q5T6F2; A2A305	UBAP2	HUM	Methyl (KR);4 Dea	748420	1130400	0	81165	98589	0	0	0	0
KNGFVVLK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14; (	IF5A1	HUMA	Deamidation (N)	801650	642600	900810	0	0	0	0	0	0
KNGGLGHMNIALLSDLTK	PRDX3	P30048	PRDX3	HUM	Oxidation (M);Deai	5611900	13218000	5693700	0	0	0	0	0	0
KNGNGGPGPYVGQAGTATLPR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	2 Deamidation (N)	2701600	3073400	2018100	198440	209520	176590	0	0	0
KNGQHVASSPIPVVISQSEIGDASR	FLNA; FLNA; FLNA	P21333; H0Y5C6;	FLNA	HUMA	Deamidation (N)	3782700	0	0	0	0	194390	94838	0	79779
KNGVQAMVEFDSVQSAQR	HNRNPL; HNRNPL;	P14866; B4DVF8;	HNRPL	HUM	Oxidation (M);Deai	22655000	24364000	29219000	322620	200710	107160	35581	0	24431
KNHSEKKSVLMLIICSSAVR	CMSS1; CMSS1; CM	Q9BQ75; H7C515	CMS1	HUMA	Oxidation (M);Met	0	334660	0	0	0	0	0	0	0
KNKEQLSDMMMINK	IQGAP1; IQGAP1; IQ	P46940; A0A0J9Y	IQGA1	HUM,	Oxidation (M);3 M	0	159050	715090	0	0	0	0	0	0
KNKESKDPADETEAD	STMN1	P16949	STMN1	HUM	Unmodified	3483600	4190600	2934400	142900	170980	145520	0	0	0
KNKESKDPADETEAD	STMN1	P16949	STMN1	HUM	Deamidation (N)	6060500	4730600	5414000	62677	0	50482	0	0	0
KNLQYYDISAK	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	Unmodified	1059500	778350	788580	0	29062	0	0	0	0
KNNLPFLTNVTLPR	LPGAT1	Q92604	LGAT1	HUM	Deamidation (N)	2710900	1586600	1400300	0	0	0	0	0	0
KNNRQPYAVSELAGHQTSAESWGTGR	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4	HUMAN	Deamidation (N)	0	1282000	2798300	0	0	0	0	0	0
KNNSSNSNVSKKEPAPMK	BRD4	O60885	BRD4	HUM	Oxidation (M);Met	0	0	0	0	0	0	0	0	0
KNPAAYENDK	UQCRQ	O14949	QCR8	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
KNPDSQYGELIEK	CMPK1; CMPK1	P30085; Q5T0D2	KCY	HUMA	Unmodified	1183600	1147500	906560	0	0	0	0	0	0
KNPEVPVNFAEFSK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Unmodified	3808800	4250900	3179300	43236	44101	0	0	0	0
KNPEVPVNFAEFSKK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Unmodified	1207900	895420	960500	0	0	0	0	0	0
KNPGVGNGDDEAAELMQQVNVLK	MAPRE1	Q15691	MARE1	HUM	Oxidation (M);Deai	9345000	8966100	9840500	0	0	0	0	0	0
KNPPSGDLLNVYELFEK	BEND3	Q5T5X7	BEND3	HUM	Unmodified	141020	186510	210120	0	0	0	0	0	0
KNPQAVLDVLK	PAK2; PAK3; PAK3	Q13177; O75914;	PAK2	HUM	Unmodified	2080500	2351000	1683200	0	0	0	0	0	0
KNSLISSLEEEVSILNR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1404400	163960	530700	0	0	0	0	0	0
KNSLISSLEEEVSILNR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Deamidation (N)	1197800	0	344400	0	0	0	0	0	0
KNSVVEASEAAYK	YWHAH; YWHAH	Q04917; A2IDB2	1433F	HUM	Deamidation (N)	883850	1185300	0	0	0	0	0	0	0
KPAAGLSAAPVPTAPAAGAPLMDFGNDFVPPAPR	RTN4; RTN4	Q9NQC3; F8W91	RTN4	HUMA	Oxidation (M);Deai	21192000	20623000	28480000	0	0	0	0	0	0
KPAAGLSAAPVPTAPAAGAPLMDFGNDFVPPAPR	RTN4; RTN4	Q9NQC3; F8W91	RTN4	HUMA	Oxidation (M)	2202500	0	0	0	0	0	0	0	0
KPAAVLKPSDWEK	XRN2	Q9H0D6	XRN2	HUM	Unmodified	2179000	1874200	3143400	0	0	0	0	0	0
KPADLQNLAPGTHPPFITFNSEVK	CLIC4	Q9Y696	CLIC4	HUM,	Deamidation (N)	1230700	856610	1184500	0	0	0	0	0	0

KPAEQAEETAPIEATATKEEEGSS	CHCHD4	Q8N4Q1	MIA40_HUM	Unmodified	1126300	1077900	980360	127500	0	0	210330	0	81830
KPAGGVDFDET	PAXX	Q9BUH6	PAXX_HUM	Unmodified	732510	669460	724440	367530	203440	215330	0	0	0
KPALGFYDTSEENYQALDADFR	CDC5L	Q99459	CDC5L_HUM	Unmodified	534540	423950	2244300	0	0	0	0	0	0
KPALGFYDTSEENYQALDADFR	CDC5L	Q99459	CDC5L_HUM	Deamidation (N)	281400	149710	169910	0	0	0	0	0	0
KPALGFYDTSEENYQALDADFRK	CDC5L	Q99459	CDC5L_HUM	Unmodified	1244700	1403900	1121700	0	0	0	0	0	0
KPASFMTSICDER	ACLY	P53396	ACLY_HUM	Oxidation (M)	579910	646020	549250	50595	66192	0	0	0	0
KPDDLPAFPLFSAFGR	SLC44A2	Q8IWA5	CTL2_HUM	Unmodified	145000	179280	225630	0	0	0	0	0	0
KPDHVPISSEDERNAIFQLEK	UBA6	A0AVT1	UBA6_HUM	Deamidation (N)	1183100	0	756840	0	0	0	0	0	0
KPDHVPISSEDERNAIFQLEK	UBA6	A0AVT1	UBA6_HUM	Unmodified	1565200	0	1132600	0	0	0	0	0	0
KPDTIEVQQMK	RDX; EZR; MSN; RI	P35241; P15311; I	RADI_HUM	Oxidation (M)	750950	6228900	6593600	138950	212870	253370	9020.4	0	0
KPEDWDEEMDGEWEPPVIQNPEYK	CALR; CALR; CALR	P27797; A0A7P07	CALR_HUM	Oxidation (M)	3717600	5195500	7775600	0	0	0	0	0	0
KPEDWDERPK	CANX; CANX; CAN	P27824; A0A7P07	CALX_HUM	Unmodified	4511200	5888300	6570400	195750	0	0	0	0	0
KPEEEEEEELEETAQEK	RRP9	O43818	U3IP2_HUM	Unmodified	1042500	1040300	774670	0	0	0	0	0	0
KPELWSDDFTDFVK	STK3; STK3; STK3	Q13188; A0A087	STK3_HUM	Unmodified	0	228290	0	0	0	0	0	0	0
KPFPDFVYKR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Unmodified	1025400	753000	774750	0	0	0	0	0	0
KPGDLSDELR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2_HUM	Unmodified	3258400	1292400	2821400	0	90541	164430	0	0	0
KPGGFDISLFYR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	2341200	1127600	1391500	0	0	0	0	0	0
KPGLEEAVESACAMR	IARS2	Q9NSE4	SYIM_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
KPGLPGQPAVS	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM_HUM	Unmodified	4798900	3819900	3961800	464630	272970	0	98325	0	0
KPGPGEPLVFGK	BCAT2; BCAT2; BC	O15382; B3KSI3	BCAT2_HUM	Unmodified	1015900	976430	1360500	0	0	0	0	0	0
KPGTNLTEEDLVDIVDTR	C5orf22	Q49AR2	CE022_HUM	Unmodified	331190	0	410230	0	0	0	20626	0	0
KPGYHAPVALLNDIPQSTEQYDPFAEHRPPK	SF3B1; SF3B1; SF3B	O75533; B4DGZ4	SF3B1_HUM	Deamidation (N)	1255500	1276300	913650	0	0	0	0	0	0
KPHTESLELQVR	ESYT1	Q9BSJ8	ESYT1_HUM	Unmodified	0	0	1070000	0	0	0	0	0	0
KPIDYTVLDDVGHGVK	ABII; ABII; ABII	Q8IZP0; A0A0A0	ABII_HUM	Unmodified	2228200	2562700	2276200	63667	66984	47202	0	0	0
KPIPDEHLILK	SEC31A; SEC31A; SI	O94979; H0Y8W8	SC31A_HUM	Unmodified	606830	661400	484540	0	0	0	0	0	0
KPKPNPNLLFSDVYQEMPAQLR	BCKDHA; N/A	P12694; F5H5P2	ODBA_HUM	Oxidation (M)	1101800	1290200	1672600	0	0	0	0	0	0
KPLFHGDSEIDQLFR	CDK1; CDK1; CDK1	P06493; A0A024(	CDK1_HUM	Unmodified	1587100	1568400	2284300	0	0	0	0	0	0
KPLLESGTLGTK	UBA1	P22314	UBA1_HUM	Unmodified	3920400	3790600	4277800	64883	55612	0	0	0	0
KPLPDHVSIVEPK	RPS3; RPS3; RPS3; I	P23396; E9PSF4;	RS3_HUMAN	Unmodified	3877600	2802600	3195000	153630	270620	328590	0	0	0
KPLPDHVSIVEPKDEILPTTPISEQK	RPS3; RPS3; RPS3; I	P23396; E9PSF4;	RS3_HUMAN	Unmodified	7166000	7540700	5174500	0	0	0	0	0	0
KPMVLGHEASGTVEK	SORD; SORD; SORD	Q00796; H0YKB3	DHSO_HUM	Oxidation (M)	946360	994570	956580	194480	169420	182230	0	0	129720
KPNEKNKPLDNK	RBBP6; RBBP6	Q7Z6E9; A0A2R8	RBBP6_HUM	2 Methyl (KR);3 D	0	251400	0	0	0	0	0	0	0
KPPEADMNIFEDIGDYVPSTTK	IK	Q13123	RED_HUMAN	Oxidation (M)	1236200	1379800	2460500	0	0	0	0	0	0
KPPLAAALGEAEPPGPVDATDLPK	CCNK	O75909	CCNK_HUM	Unmodified	577700	885170	1647000	0	0	0	0	0	0
KPPLLNNADSVQAK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	2 Deamidation (N)	1931700	1672300	2323300	0	0	0	0	0	0
KPPLLNNADSVQAK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Deamidation (N)	626420	1082500	715220	0	0	0	0	0	0
KPSISITTESLK	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU_HUM	Unmodified	859010	855270	1150000	0	0	0	0	0	0
KPSPAQAAETPALELPLPSVPAPAPL	NELFB; NELFB	Q8WX92; A0A5H	NELFB_HUM	Unmodified	1051500	916890	1370700	0	0	0	0	0	0
KPTFMDEEVQSILTK	MRPS22; MRPS22; M	P82650; A0A7P03	RT22_HUMA	Oxidation (M)	877490	724720	736790	27412	19594	18471	0	0	0
KPVEELTEEEKYVR	MRPS7; MRPS7; MR	Q9Y2R9; J3QKW	RT07_HUMA	Unmodified	1261800	829350	0	49143	0	0	0	0	0
KPVSIVSPEPGTTR	GTPBP3	Q969Y2	GTPB3_HUM	Unmodified	765080	534890	489780	0	0	0	0	0	0
KPVTVSPTTPTSPTEGEAS	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1_HUM	Unmodified	2989400	2772900	2738100	94350	105890	84538	0	0	0
KQAEETYENIPGQSK	IPO5; IPO5; IPO5; IPI	O00410; E7ETV3;	IPO5_HUMA	Unmodified	349030	269610	264600	0	0	0	0	0	0
KQAGPASVPLRTEEEFKK	PDIA3	P30101	PDIA3_HUM	Unmodified	3742400	3960400	2829600	0	0	0	0	0	0
KQDAFYKEQLAR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Unmodified	3505500	2498600	3403200	84198	0	0	0	0	0
KQDEPIDLFMIEIMEMK	CCT6A	P40227	TCPZ_HUMA	2 Methyl (KR)	1216200	1205500	1342300	0	0	72376	0	0	0
KQEEIDVIQEVLEK	MDN1	Q9NU22	MDN1_HUM	2 Methyl (KR)	129430	0	0	0	0	0	0	0	0
KQEELQQLEQQR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	959410	873730	627720	100950	113050	115870	0	0	0
KQEIVAEK	CORO1C; CORO1C;	Q9ULV4; F8VV5	COR1C_HUM	Unmodified	0	0	2475300	0	0	0	0	0	0
KQEIVAEKEK	CORO1C; CORO1C;	Q9ULV4; F8VV5	COR1C_HUM	Unmodified	4353900	4359400	4787300	104810	72595	0	0	0	0
KQEIVAEKEK	CORO1C; CORO1C;	Q9ULV4; F8VV5	COR1C_HUM	Methyl (KR)	310490	0	192020	0	0	0	0	0	0
KQELAETLANLER	MEAF6	Q9HAF1	EAF6_HUMA	Unmodified	1943300	2477800	1515600	0	0	0	0	0	0
KQELEEICHDLEAR	MYH9	P35579	MYH9_HUM	Unmodified	2198500	1120200	0	27136	63464	0	0	0	14229
KQELEEILHDLESR	MYH10	P35580	MYH10_HUM	Unmodified	2621700	1713400	1060700	0	0	0	0	0	0
KQELELVVSELEAR	MYH14; MYH14	Q7Z406; M0QY42	MYH14_HUM	Unmodified	4142400	2585700	2599700	0	0	0	0	0	0
KQELSEAEQATR	C3	P01024	CO3_HUMAN	Unmodified	1549500	1371700	1651200	0	287390	0	0	0	0
KQESTVMVLR	PUF60; PUF60; PUF	Q9UHX1; A0A0J9	PUF60_HUM	Oxidation (M)	884730	0	723160	0	0	0	0	0	0
KQEVQAWDGEVR	USP5	P45974	UBP5_HUM	Unmodified	255400	0	1069200	0	0	0	0	0	0
KQFGAQANVKPWIQTK	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1_HUM	Unmodified	3080700	2913500	2711900	18214	18527	15593	20494	0	19955
KQGFDLNVPGGEIDASLK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	159890	1974200	0	0	0	0	0	0
KQGTIFLAGPPLVK	MCCC2; MCCC2; M	Q9HCC0; D6RD6	MCCB_HUM	Unmodified	0	0	877760	123520	127600	187980	0	73480	0
KQIEELKGQEVSPK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1_HUM	Unmodified	1391300	1716400	1971000	0	0	0	0	0	0
KQITMEELVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	0	1455300	0	0	0	0	0	0	0
KQKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	12429000	12636000	11095000	0	0	0	0	0	0
KQKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	2124100	1822800	0	0	0	0	0	0	0
KQKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	1059400	1123700	1056700	0	0	0	0	0	0
KQKVEGTEPTTAFNLFVGNLNFNKSAPELK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	2 Deamidation (N)	1183300	1394900	0	0	0	0	0	0	0
KQKVEGTEPTTAFNLFVGNLNFNKSAPELK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	0	1302600	1580800	0	0	0	0	0	0
KQLADETLLK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Unmodified	1076000	1007000	939890	0	0	0	0	0	0
KQLGQDPFFDMHMMVSKPEQWVK	RPEL1; RPE; RPE; R	Q2QD12; Q96AT9	RPEL1_HUM	Oxidation (M);2 M	0	1339700	0	0	0	0	0	0	0
KQMVIDVLHPGK	RPS24; RPS24; RPS2	P62847; A0A2R8	RS24_HUMA	Oxidation (M)	1840600	1340000	1609800	50731	22948	0	0	0	0
KQNADPQAVTMPATETK	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Oxidation (M)	1392600	1167300	586160	0	0	0	0	0	0
KQNADPQAVTMPATETK	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Oxidation (M);Deai	1709100	2187400	1845700	0	0	0	0	0	29429
KQNDVFGEAEQ	GDI1	P31150	GDIA_HUMA	Unmodified	1856900	2317000	2069800	315250	297990	346080	0	0	0
KQNDVFGEAEQ	GDI1	P31150	GDIA_HUMA	Deamidation (N)	10927000	9302200	8471100	982050	1285300	642440	0	0	0
KQPIGPEDVLGLQR	UNC119; UNC119; U	Q13432; C9JSK0;	U119A_HUM	Unmodified	1149400	1330700	1752900	66539	59281	0	0	10769	0
KQPPVSPGTALVGSQK	HMGA1	P17096	HMGA1_HUM	Unmodified	2249400	1217500	1844200	208660	232090	145880	0	0	0
KQPPVSPGTALVGSQKEPSEVPTPK	HMGA1	P17096	HMGA1_HUM	Unmodified	21237000	16503000	18898000	1407200	1905100	1389600	0	423240	0
KQPPVSPGTALVGSQKEPSEVPTPK	HMGA1	P17096	HMGA1_HUM	Methyl (KR)	1325400	1458900	1169900	83165	58987	0	0	0	0
KQQAIELTQEEPYSDIIATPGPR	RAD21; RAD21; RAI	O60216; E5RG18;	RAD21_HUM	Unmodified	1167700	1414400	1644900	0	0	0	0	0	0
KQQISLATQMVR	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE_HUMA	Oxidation (M)	1052300	777900	1393800	0	0	0	0	0	0
KQQLEVELR	DSP	P15924	DESP_HUMA	Unmodified	1110300	1271600	1677600	0	0	0	0	0	0
KQQNQELQEQLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	2022200	2735800	2233400	0	72022	0	0	0	0
KQQPNPGNELCYKVIVTR	TTLL12	Q14166	TTL12_HUM	2 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
KQSEGLTKEYDRLLEEHAK	BCAP31; BCAP31	P51572; A0A2R8	BAP31_HUM	Unmodified	1083500	764450	704950	40265	24985	31291	0	0	0
KQSLGELIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Unmodified	17553000	16748000	20237000	0	0	0	0	0	0
KQSLGELIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Methyl (KR)	814990	451230	538730	0	0	0	0	0	0
KQSLGELIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Deamidation (N)	8655800	10653000	9983700	0	0	0	0	0	0
KQSLGELIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Methyl (KR);Deam	2274500	1952300	1756400	0	0	0	0	0	0
KQSTDEEVTSLAK	TCEA1; TCEA1; TCI	P23193; E5RJ93;	TCEA1_HUM	Unmodified	8124900	6283700	8920300	22695	0	30266	0	0	0
KQTIDNSQGAYQEAFDISK	YWHAQ	P27348	1433T_HUM	Deamidation (N)	8114900	6217700	5691000	43339	39687	50011	43262	0	0
KQTIDNSQGAYQEAFDISK	YWHAQ	P27348	1433T_HUM	Unmodified	0	1578600	0	0	0	0	0	0	0
KQVEIAQREGAK	ASS1; ASS1; ASS1	P00966; Q5T6L6;	ASSY_HUM	Unmodified	0	0	0	0	0	0	0	0	0
KRAEFTVETR	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA_HUM	Unmodified	1888400	1708200	1740100	458200	542110	366120	350860	356270	490040
KRATPRDPSFNGCSR	TACR3	P29371	NK3R_HUM	Deamidation (N)	0	0	0	0	0	0	0	1427200	0
KRDAEDDGEEEDD	ANP32E; ANP32E; A	Q9BTT0; Q5TB15	AN32E_HUM	Unmodified	0	0	0	7328800	916200	2808400	0	0	0
KREEAAAVPAAAPDDLALLK	MTDH; MTDH	Q86UE4; E5RJU9	LYRIC_HUM	Unmodified	5557300	4208000	3063200	193720	109910	89163	0	0	0
KREELSNVLAAMR	RPL36	Q9Y3U8	RL36_HUMA	Oxidation (M)	1661000	1330800	2141100	0	92405	16471	0	0	0
KREGELTVAQGR	LMNB2	Q03252	LMNB2_HUM	Unmodified	2668700	0	4624100	1184500	1441300	1232800	46031	73718	0
KREPEDEGEDDD	ANP32A	P39687	AN32A_HUM	Unmodified	14226000	22133000	16847000	2637700	3275100	3628700	0	0	0
KRETDDEGEDD	ANP32B	Q92688	AN32B_HUM	Unmodified	0	246520	267620	0	0	0	0	0	0
KREYENELAK	DSP	P15924	DESP_HUMA	Unmodified	3425200	4899300	0	20768	317610	0	0	0	0
KRGFAFVTFDDHDSVDKIVIQK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	6242800	1005500	5371000	0	0	0	0	0	0
KRGFAFVTFDDHDTVDKIVVQK	HNRNPA3; HNRNPA	P51991; A0A7I2V	ROA3_HUM	Unmodified	6570300	5339300	5291500	0	0	0	0	0	0
KRGFGFVTFDDHDPVDK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUM	Unmodified	1608300	1936900	1742100	0	0	0	0	0	0
KRGFGFVTFDDHDPVDKIVLQK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUM	Unmodified	12052000	15263000	9580200	0	0	0	0	0	0
KRGHVFEESQVAGTPMFVVK	EEF2	P13639	EF2_HUMAN	Oxidation (M)	8870300	7023100	7634900	0	0	0	0	0	0
KRHEMPPHIYAITDTAYR	MYH9; MYH9	P35579; Q5BKV1	MYH9_HUM	Oxidation (M)	905390	0	1267500	0	0	0	0	0	0
KRKYNWSAK	RPL37; RPL37	P61927; D6RG19	RL37_HUMA	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
KRNEDEDSPNKLYTLVTYVPVTTFK	RPL31; RPL31; RPL:	P62899; H7C2W9	RL31_HUMA	Unmodified	4748600	5376700	5082300	0	0	0	0	0	0
KRQREEEIEAQEK	DNAJC8; DNAJC8	O75937; S4R3J5	DNJC8_HUM	Unmodified	741900	394160	450450	19191	49541	30771	0	0	0
KRVETSEHFR	TMPO	P42167	LAP2B_HUM	Unmodified	2169700	1614600	1954400	0	56541	0	0	0	0
KSADTLWGIQK	LDHA	P00338	LDHA_HUM	Unmodified	3487900	3088800	0	0	0	0	0	0	0
KSADTLWGIQKELQF	LDHA	P00338	LDHA_HUM	Unmodified	2890200	2635600	2839500	0	0	0	15626	0	0
KSAEFLLHMLK	RPL17; RPL17; RPL:	P18621; A0A087	RL17_HUMA	Oxidation (M)	625360	0	549670	0	10833	0	0	0	0
KSDIDEIVLVGGSTR	HSPA5; HSPA5	P11021; A0A7P01	BIP_HUMAN	Unmodified	16644000	17826000	13185000	152600	40541	147270	0	0	0
KSDIDEIVLVGGSTR	HSPA5; HSPA5	P11021; A0A7P01	BIP_HUMAN	Methyl (KR)	1901500	1838200	1766000	0	0	0	0	0	0
KSDKNSSFRSK	KIF4A	O95239	KIF4A_HUM	3 Methyl (KR);Dea	0	0	0	0	52313	72617	0	0	0
KSDPVVSYR	EEF2	P13639	EF2_HUMAN	Unmodified	864130	512270	718880	57996	143260	94668	0	0	0
KSDVEAIFSK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	3690200	4876400	4405100	49419	53930	61231	0	0	0
KSDVEAIFSKYGK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	2579900	2506100	2777700	0	0	0	0	0	0
KSDVETFSK	RALY; RALY; RALY	Q9UKM9; Q5QP8	RALY_HUM	Unmodified	2036100	1994100	1396000	0	48686	47482	0	0	0
KSEEEIDFLR	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L_HUM	Unmodified	1146200	839200	937450	35014	51985	46714	0	0	0
KSEIEYYAMLAK	RPL30; RPL30	P62888; E5RJ99	RL30_HUMA	Oxidation (M)	9377200	8667800	7442400	265940	182700	177200	0	0	0
KSEPPPLDRVYEIPGLEPITFAGK	MRPL37; MRPL37	Q9BZE1; S4R369	RM37_HUMA	Unmodified	2026800	1557400	1675500	0	0	0	0	0	0
KSEQEFSFDTPADR	SCAF11; SCAF11	Q99590; F8VXG7	SCAFB_HUM	Unmodified	452190	340530	525270	41365	39431	60693	0	0	0
KSESEVEEAAAIIAQRPDNPR	DBN1; DBN1; DBN1	Q16643; D6R9Q9	DREB_HUM	Unmodified	0	1502500	0	0	0	0	0	0	0
KSEYTQPTPIQCQGVPVALSGR	DDX42; DDX42	Q86XP3; A0A0A(	DDX42_HUM	Unmodified	712920	515140	1171300	0	0	14452	0	0	0
KSGNYFFLDD	ABCE1	P61221	ABCE1_HUM	Unmodified	1018600	961270	986080	70473	85432	0	0	0	0
KSHEAEVLK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	1713700	2148200	0	9996.5	0	0	0	0	0
KSHEAEVLKQLAEKR	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	0	1112000	0	0	0	0	0	0	0
KSIQSGPLK	IMMT; IMMT; IMM1	Q16891; D6RAW4	MIC60_HUM	Unmodified	1682200	0	1976000	0	0	0	0	0	0

KSLDFYTR	GLO1	Q04760	LGUL_HUMA	Unmodified	3312300	2247600	3729600	0	0	96630	0	0	21004
KSLEDQVEMLR	PRKCSH; PRKCSH	P14314; K7EL77	GLU2B_HUM	Oxidation (M)	786980	1707300	883620	0	0	0	0	0	0
KSLPEEDVAEIQHAEEFLIKPESK	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1_HUMA	Unmodified	2502800	1829100	1638100	0	0	0	0	0	0
KSMYEEEINETR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Oxidation (M)	5750500	4361100	5055800	161390	172470	205520	0	0	0
KSMYEEEINETR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Oxidation (M);Deam	693820	643140	617140	0	0	0	0	0	0
KSNFAEALAAHK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Methyl (KR)	960550	380120	0	0	0	0	0	0	0
KSNFAEALAAHK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	3781400	4283400	3700400	86846	79118	83399	0	0	0
KSPENTEGKDGSK	HMGN3; HMGN3	Q15651; A0A087	HMGN3_HUM	Deamidation (N)	0	88374	93943	0	0	0	0	0	0
KSPENTEGKDGSK	HMGN3; HMGN3	Q15651; A0A087	HMGN3_HUM	Unmodified	0	215430	195570	0	0	0	0	0	0
KSPVAKDVDLEFLAK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	5258500	5183900	5715100	103290	63328	77632	0	0	0
KSPVGMLDLSSWSSPEVLR	PCNT	O95613	PCNT_HUMA	Oxidation (M)	295650	299060	297300	0	0	0	0	0	0
KSQGPLEVAEAAVSQSSGLAAK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	1709200	1475300	1535700	0	0	0	0	0	0
KSQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	13351000	13152000	15360000	98522	100660	491300	0	0	0
KSQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	5318800	6533000	6291000	68491	103090	100710	0	0	0
KSSTPEEVK	CFL1; CFL1; CFL1; C	P23528; G3V1A4;	COF1_HUMA	Unmodified	4908300	1008700	1360900	179080	170690	60681	0	0	0
KSVEDRFDQQKNDYDQLQK	DSP	P15924	DESP_HUMA	Unmodified	906380	865610	594840	0	0	0	0	0	0
KSVEEVASEIQPFLR	DSP	P15924	DESP_HUMA	Unmodified	1140000	0	1075300	0	0	0	0	0	0
KSVQPTSEERIPK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9_HUM	Unmodified	1114500	1031800	1643500	0	0	163280	0	0	0
KTDDVEAMSSQPALALDER	MAP1B	P46821	MAP1B_HUM	Oxidation (M)	0	1577100	1526800	0	0	181400	0	0	0
KTDELRNLHKLLYNR	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK_HUMA	2 Methyl (KR);2 D	449230	0	526610	0	26099	14500	0	0	0
KTDFFIGGEEGMAEK	NUDC; NUDC	Q9Y266; A0A0A0	NUDC_HUM	Oxidation (M)	547820	493680	468610	0	0	0	0	0	0
KTDPSGLSK	ALCAM; ALCAM; A	Q13740; F5GXJ9;	CD166_HUM	Unmodified	434000	356390	415610	189870	226760	270980	0	0	0
KTEELEEESFPER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	6443000	6432000	5894200	643610	625370	812360	0	0	0
KTEKEESTEVLKAQSAGTVR	CAST; CAST; CAST;	P20810; A0A6Q8	ICAL_HUMA	Unmodified	0	0	0	192660	166680	171530	45094	0	90158
KTEPATGFIDGDLIESFLDISRPK	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	2309100	986850	2031800	0	0	0	0	0	0
KTERDELLKDLQQSIAR	PDCD6IP	Q8WUM4	PDC6I_HUM	Unmodified	1550300	1866500	2041000	0	0	0	0	0	0
KTETQEKNPLPSKETIEQEK	TMSB4X	P62328	TYB4_HUMA	Unmodified	22386000	21647000	20341000	281860	268360	286790	0	0	0
KTETQEKNPLPSKETIEQEK	TMSB4X	P62328	TYB4_HUMA	Methyl (KR)	2198100	2688900	2621700	0	0	0	0	0	0
KTEVVMNSQQTPVGTPK	PALM	O75781	PALM_HUM	Oxidation (M);Deam	867270	997040	990140	0	44413	0	0	0	0
KTFEINPR	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL_HUM	Unmodified	2893200	2076600	2307900	124770	0	0	0	0	0
KTFSHELSDFGLESTAGEIPVVAIR	PDIA3	P30101	PDIA3_HUM	Unmodified	37968000	32308000	46754000	20633	0	19329	0	0	0
KTGEAYVQFEEPEMANQALLK	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1_HUM	Oxidation (M)	887090	1040700	690610	16979	0	0	0	0	0
KTKPYIQVDIGGGQTK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	2110500	0	2147100	39823	0	0	0	0	0
KTLEEEAKTHEAQIQEMR	MYH9	P35579	MYH9_HUM	Oxidation (M)	1602700	2635800	1212900	46376	71198	45730	0	0	0
KTLQALEFHTVPFQLLAR	LGALS3BP	Q08380	LG3BP_HUM	Unmodified	793310	787240	1069300	0	0	0	0	0	0
KTNPEIQSTLR	CASP14	P31944	CASPE_HUM	Unmodified	325170	514450	0	291030	328250	249080	37020	20826	0
KTPESFLGPNAALVDLDSLVSRPGPTPPGAK	EPN1	Q9Y6I3	EPN1_HUMA	Unmodified	1064600	1265000	0	0	0	0	0	0	0
KTPQGPPEIYSDTQFPSLQSTAK	CDV3; CDV3; CDV3	Q9UKY7; D6R9V	CDV3_HUMA	Unmodified	14303000	13969000	12644000	818010	689070	717970	126770	127160	151530
KTQEQLALEMAELTAR	MSN	P26038	MOES_HUM	Oxidation (M)	8876600	8942100	7469900	306060	294490	294090	17003	0	19150
KTQMAEVLPSPR	TOP2A	P11388	TOP2A_HUM	Oxidation (M)	533060	749820	899190	0	0	0	0	0	0
KTSETLSQAGQK	TPD52; N/A	P55327; H0YC42	TPD52_HUM	Unmodified	319170	236910	366640	0	0	0	0	0	0
KTSFDQDSDVDIFPSDFPTEPPSLPR	TOP2B	Q02880	TOP2B_HUM	Unmodified	1316800	0	1359200	0	0	0	0	0	0
KTTDTASVQNEAK	CORO1C; CORO1C;	Q9ULV4; H0YHL	COR1C_HUM	Unmodified	1493900	285750	302320	265150	0	0	0	0	0
KTTDTASVQNEAKLDEILKEIK	CORO1C; CORO1C;	Q9ULV4; H0YHL	COR1C_HUM	Unmodified	1399500	1755200	1615300	0	0	0	0	0	0
KTTHFVEGGDAGNREDQINR	RPL7; RPL7	P18124; A8MUD6	RL7_HUMAN	Unmodified	2104300	0	2255600	0	0	96688	0	0	0
KTTIENIQLPHTLLSR	MCM4; MCM4; MC	P33991; A0A3B3	MCM4_HUM	Unmodified	1167200	1366000	1056800	0	0	0	0	0	0
KTTLQVDTLNAELAAER	MYH10	P35580	MYH10_HUM	Unmodified	1035700	1089000	1044400	0	0	0	0	0	0
KTTVLAMDQVPR	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM_HUM	Oxidation (M)	3413700	3386800	3471600	79887	0	70857	0	0	0
KTVLGTPEVLLGALPGAGGTQRLPK	HADHA; HADHA; H	P40939; H0YFD6	ECHA_HUM	Unmodified	1253300	968460	2220200	0	0	0	0	0	0
KTVMIKTIETRDGEVVSEATQQQHEVL	DES	P17661	DESM_HUM	Oxidation (M)	0	0	0	0	0	0	499080	0	171060
KTVQGPPTSDDIFER	OAT	P04181	OAT_HUMAN	Unmodified	1061200	974060	747350	11288	0	30996	0	19014	0
KTVTAMDVVYALK	H4C1	P62805	H4_HUMAN	Oxidation (M)	87442000	73475000	73193000	1870800	1953400	1563800	97996	90400	77632
KTVTAMDVVYALK	H4C1	P62805	H4_HUMAN	Oxidation (M);Metl	29727000	25128000	24581000	522140	495000	499250	15671	0	24923
KTVTAMDVVYALKR	H4C1	P62805	H4_HUMAN	Oxidation (M)	150820000	105080000	133160000	3230000	2783100	2971800	305330	49560	0
KTVTAMDVVYALKR	H4C1	P62805	H4_HUMAN	Oxidation (M);Metl	28185000	29969000	24179000	781240	717100	623730	39137	23447	0
KVAGMDVELTVEER	YWHAE; YWHAE; Y	P62258; B3KTT1;	1433E_HUM	Oxidation (M)	5125300	5250700	3014300	93183	0	48715	0	0	0
KVAGMDVELTVEER	YWHAE; YWHAE; Y	P62258; B3KTT1;	1433E_HUM	Oxidation (M);Metl	2027800	993370	1319400	39560	0	0	0	0	0
KVAPQNDSFQTQLPPMHQQQR	FUBP1	Q9JSZ1	C9JSZ1_HUM	Oxidation (M);Deam	3246900	3436200	1872000	23494	176190	29370	0	0	0
KVAVAAASKPHVEIR	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Unmodified	1734300	2337100	2330300	0	0	0	0	0	0
KVAVAAASKPHVEIRQDGDQFYIK	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Unmodified	14152000	15239000	19366000	0	0	0	0	0	0
KVAVATPAK	NCL; NCL; NCL; NC	P19338; C9LLB1;	NUCL_HUM	Unmodified	0	2346600	0	0	0	0	0	0	0
KVDEAIALFQK	VARS1; VARS1	P26640; A0A140	SYVC_HUMA	Unmodified	1312300	2415300	670690	72252	60017	126290	0	0	0
KVDIIADAAYSIFQKPK	HSDL2	Q6YN16	HSDL2_HUM	Unmodified	1562900	1543100	1600600	0	0	0	0	0	0
KVDPVSSDKVDPVFPR	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	3859600	4358500	2758700	0	0	24879	0	0	0
KVDRGGEGDDPAR	KDM5C	P41229	KDM5C_HUM	Unmodified	1110300	1069700	898250	28623	0	56800	0	0	0
KVDVEEEFFALR	MKI67	P46013	KI67_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
KVEAPFIPK	PRKACG; PRKACA;	P22612; P17612;	KAPCG_HUM	Unmodified	0	2002500	3038000	294480	423500	415510	0	0	0
KVEAQLQELQVK	MYH9	P35579	MYH9_HUM	Unmodified	3016200	3201800	2671400	62849	36768	0	0	0	0
KVEDLFLTFAK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	866710	706330	719400	0	0	0	0	0	0
KVEEAEPEEFVVEK	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Unmodified	26455000	24282000	21936000	715630	940870	712160	0	0	0
KVEEAEPEEFVVEKVLDRR	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Unmodified	3842300	0	0	0	0	0	0	0	0
KVEEAEPEEFVVEKVLDRR	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Methyl (KR)	353960	393960	388130	0	0	0	0	0	0
KVEEDEAGGRFVAFSGEGQSLR	UFD1	Q92890	UFD1_HUMA	Unmodified	1230300	1229700	1246700	58492	0	47762	0	0	0
KVEEDEAGGRFVAFSGEGQSLRK	UFD1	Q92890	UFD1_HUMA	Unmodified	732760	702100	0	94950	0	60595	0	0	0
KVEEEEDESALK	MCM6	Q14566	MCM6_HUM	Unmodified	359270	0	614800	0	0	0	0	0	0
KVEELQACVETAR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	1288900	3327200	0	61985	36866	57108	0	0	0
KVEEVLEEEEEYVVEK	CBX1; CBX1; CBX1;	P83916; C9JWS9;	CBX1_HUMA	Unmodified	1024400	927490	14764000	0	0	0	0	0	0
KVEEVLEEEEEEYVVEKVLDRR	CBX1; CBX1; CBX1;	P83916; C9JWS9;	CBX1_HUMA	Unmodified	1167400	0	932740	0	0	0	0	0	0
KVEEVVYDLSIR	TSN; TSN	Q15631; E9PGT1	TSN_HUMAN	Unmodified	1129300	1122900	718820	0	0	0	0	0	0
KVEGAPTQGR	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1_HUM	Unmodified	993040	774510	958500	234120	204430	169460	0	14999	12031
KVEGAQNQGK	RRBP1	Q9P2E9	RRBP1_HUM	Unmodified	0	223240	164560	0	0	0	0	0	0
KVEHEISEGNVATAAAAALASAATK	SMARCC1	Q92922	SMRC1_HUM	Unmodified	1581700	1436700	1360500	0	0	0	0	0	0
KVENEDMNKDQILLEKEAELR	SEPTIN2; SEPTIN2;	Q15019; H7C2Y0	SEPT2_HUM	Oxidation (M)	492430	0	686120	0	0	0	0	0	0
KVEQLQQEYTEMK	TRIM25; TRIM25	Q14258; A0A3B3	TRI25_HUMA	Oxidation (M)	1255400	1627400	1156600	61226	0	0	10390	0	0
KVESLQEEIAFLK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	26336000	22800000	31674000	120940	49698	0	58651	27924	44504
KVESLQEEIAFLKK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	8121300	8988300	10127000	182720	35723	14632	39679	0	0
KVESTGAVPEFKEEK	HSDL2	Q6YN16	HSDL2_HUM	Unmodified	1861300	1770800	2466200	83054	95903	50033	0	0	0
KVESTKTDSR	PPIB; PPIB; PPIB	P23284; A0A7P0	PPIB_HUMA	Unmodified	0	192530	0	0	0	0	0	0	0
KVFASLPQVER	WDR1; WDR1	O75083; D6RD66	WDR1_HUM	Unmodified	2205600	1310600	1618000	50002	46923	0	0	0	0
KVFDPVPVGVTK	DHX9	Q08211	DHX9_HUMA	Unmodified	3639700	3401700	3811900	0	92284	64405	0	0	0
KVGDDIAK	RPL12	P30050	RL12_HUMA	Unmodified	4679500	5214300	4045900	610750	365210	0	0	0	0
KVGNPFELDTQQGPQVDKEQFER	ALDH1B1	P30837	AL1B1_HUM	Unmodified	1062700	1685200	1502200	0	0	0	0	0	0
KVGTFFSEVKPAGPTVEQQGEMAR	ALDH18A1	P54886	P5CS_HUMA	Oxidation (M)	1733300	1352500	0	0	59814	87462	0	0	0
KVGWIFTDLVSEDTR	NPLOC4	Q8TAT6	NPL4_HUMA	Unmodified	773090	541690	923190	0	0	0	0	0	0
KVGYTPDWIFLLR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2_HUMA	Unmodified	2855200	2108500	2321500	0	0	0	0	0	0
KVIDDTNITR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	2667800	2417900	2392000	539890	560870	587030	0	0	13251
KVIEEQLEPAVEK	LRPPRC	P42704	LPPRC_HUM	Unmodified	2944400	2623700	3050100	0	0	0	0	0	0
KVLELTGK	GATD3B; GATD3A;	A0A0B4J2D5; P0	GAL3B_HUM	Unmodified	3301100	2993700	3237400	519920	406190	566400	55903	57604	67454
KVLFYTDLVNPR	NID2; NID2; NID2	Q14112; H0YJV3;	NID2_HUMA	Unmodified	0	0	0	249910	173970	263520	59244	41575	52690
KVLHMDRNPYYGGESASITPLEDLYKR	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB_HUMA	Oxidation (M)	738360	0	907930	0	0	0	0	0	0
KVLIGGGDGGVLR	SRM; SRM	P19623; K7ESL0	SPEE_HUMA	Unmodified	1686300	1155700	1807600	0	0	0	0	0	0
KVLISDSLDPCCR	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Unmodified	0	228550	0	0	0	0	0	0	0
KVLLDGVQNPR	C3	P01024	CO3_HUMAN	Unmodified	541590	901070	1026300	36378	39132	50142	0	0	0
KVLLDGVQNPRAEDLVGK	C3	P01024	CO3_HUMAN	Unmodified	595960	309330	244690	0	0	0	0	0	0
KVLQSPATTVVR	PNPT1	Q8TCS8	PNPT1_HUM	Unmodified	1302200	1407000	1876300	0	0	0	0	0	0
KVMSTPLSK	FANCM; FANCM; F	Q8IYD8; H0YJS3;	FANCM_HUM	Oxidation (M)	0	607960	0	0	0	0	0	0	0
KVMVLDFVTPTPLGTR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1_HUM	Oxidation (M)	1974800	1535600	1618400	0	0	0	0	0	0
KVMVLDFVTPTPLGTR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1_HUM	Oxidation (M);Metl	0	884870	0	0	0	0	0	0	0
KVNELQNQPLELDTMLR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Oxidation (M)	572140	461820	358190	0	0	0	0	0	0
KVPDKLLDSSTVTHLFK	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6_HUMA	Unmodified	2158400	1564200	1161100	0	0	0	0	0	0
KVPGEGLPLPK	DNAJB1; DNAJB1; D	P25685; A0A7I2	DNJB1_HUM	Unmodified	1221100	952460	1088600	63962	0	0	0	0	0
KVPGVTAIELDEDTGTFR	FXR1; FXR1; FXR1;	P51114; E7EU85;	FXR1_HUMA	Unmodified	5026500	6053000	4023300	57341	39078	0	0	0	0
KVPWFDQQNGR	H1-10	Q92522	H1X_HUMAN	Deamidation (N)	2474900	970330	667340	0	0	0	0	0	0
KVQEEFDIDMDAPETER	PCP4	P48539	PCP4_HUMA	Oxidation (M)	7855500	7898400	7888600	0	0	0	0	0	0
KVQQELSRPGMLEMLLPGQPEAVAR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	2 Oxidation (M)	1853600	717130	1200700	0	0	0	0	0	0
KVQSGNINAAK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG_HUMA	Unmodified	714570	448250	684600	0	0	0	0	0	0
KVQTILEKLEQK	BAG3	O95817	BAG3_HUMA	Unmodified	601330	405810	342960	0	0	0	0	0	0
KVQVAALQASPPLDQDDR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2_HUMAN	Unmodified	759370	0	1055100	0	0	0	0	0	0
KVSIMDLTVGAPWGK	N/A	N/A	N/A	Oxidation (M)	1848200	1484500	2207300	89678	56097	91802	0	0	0
KVSKQEEASGGPTAPK	VASP; VASP	P50552; K7EM16	VASP_HUMA	Unmodified	367940	533380	408510	22332	23136	18104	11697	0	12383
KVSQPIEGHAASFAQFK	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	1727400	4082400	3913100	110610	0	80941	0	0	0
KVSSAEGAAKEEPK	HMGN1; HMGN1; H	P05114; H7BXJ5;	HMGN1_HUM	Unmodified	6063100	3821800	4704600	336930	308290	370860	0	0	0
KVSSAEGAAKEEPK	HMGN1; HMGN1; H	P05114; H7BXJ5;	HMGN1_HUM	Methyl (KR)	886130	520960	1083000	40046	35870	0	0	0	0
KVSSGWGEMPNVHSK	TNRC6C	Q9HCJ0	TNR6C_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
KVTFQGVGDEEDEDEJIVPK	CD2BP2	O95400	CD2B2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
KVTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Deamidation (N)	2942700	3346600	2000400	42576	24948	0	0	0	0
KVTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	2923100	664550	2622000	39418	24253	23554	0	0	0
KVTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	0	803780	562150	0	0	0	0	0	0
KVTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Methyl (KR);Deam	271300	260400	282440	0	0	0	0	0	0
KVTQLDLDGPK	PDAP1	Q13442	HAP28_HUM	Unmodified	660680	0	0	0	0	0	0	0	0
KVTQLDLDGPKELSRR	PDAP1	Q13442	HAP28_HUM	Unmodified	512100	961350	1361600	0	0	0	0	0	0
KVTSVVFHPSQDLVFSASPDATIR	PRPF19	Q9UMS4	PRP19_HUM	Unmodified	4328700	3600400	1919800	0	0	0	0	0	0

KVVDNTTAKEFADSLGIPFLETSAK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C	HUM	Unmodified	4848500	2054700	4182700	0	0	0	0	0	0
KVVDPETGRTR	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4I	ARL6P4	HUM.	Unmodified	1575800	638190	0	0	0	87634	0	0	0
KVVDYSQFQESDDADEDYGR	NUCKS1	Q9H1E3	NUCKS	HUM	Unmodified	843840	1249300	220850	0	0	0	0	0	0
KVVDYSQFQESDDADEDYGRDSGPPTKK	NUCKS1	Q9H1E3	NUCKS	HUM	Unmodified	2244000	0	2065900	101050	0	0	0	0	0
KVVGDVAYDEAKER	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	1122400	1123200	838910	0	64917	62829	0	0	0
KVVLEAPDETTLKLEAETLQQK	PTRHD1	Q6GMV3	PTRD1	HUM	Unmodified	1792900	2560800	1780100	0	0	0	0	0	0
KVVNPLFEK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUM	Unmodified	756270	0	0	44945	35221	57719	0	0	0
KVYENYPTYDLTER	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	330390	623550	309980	0	0	0	73340	0	0
KYAPTEAQLNAVDALIDSMSLAK	XRCC5	P13010	XRCC5	HUM	Oxidation (M);Deai	1196800	707040	1389200	0	0	0	0	0	0
KYAPTEAQLNAVDALIDSMSLAK	XRCC5	P13010	XRCC5	HUM	Oxidation (M)	4013800	2859400	2593800	0	0	0	0	0	0
KYAVLYQPLFDKR	NAP1L1; NAP1L1; N	P55209; F8W543;	NP1L1	HUM.	Unmodified	2264100	0	1760800	0	0	0	0	0	0
KYDAFLASESLIK	RPL10A	P62906	RL10A	HUM.	Unmodified	1856500	2156200	1394000	0	0	0	0	0	0
KYEDICPSTHNMDVPNIK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14; (	IF5A1	HUMA	Oxidation (M)	397280	491610	621360	0	0	0	0	0	0
KYEDICPSTHNMDVPNIKR	EIF5A; EIF5AL1; EIF	P63241; Q6IS14; (	IF5A1	HUMA	Oxidation (M)	360770	415610	382740	0	0	0	0	0	0
KYEEIDNAPEER	TUFM	P49411	EFTU	HUM	Unmodified	7240600	10092000	8759500	92589	487670	414790	23651	0	0
KYEGGRELSDFISYLQR	PDIA3	P30101	PDIA3	HUM/	Unmodified	38666000	32141000	50277000	16202	0	0	0	0	0
KYEMFAQTLQQSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Oxidation (M)	27691000	26086000	28133000	539250	443290	530620	117010	31233	41561
KYETVIMPVFGIATPFHIATIK	SUPT16H	Q9Y5B9	SP16H	HUM.	Oxidation (M)	1018900	0	213330	0	0	0	0	0	0
KYGGPPPDSVYSGQQPSVGTEIFVGK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	Unmodified	3053100	2123600	3136700	0	0	0	0	0	0
KYGGPPPDSVYSGQQPSVGTEIFVGKIPR	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	Unmodified	3733900	3756700	2817100	0	0	0	0	0	0
KYGGPPPDSVYSGVQPGIGTEVFVGK	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR	HUM	Unmodified	11422000	9786300	11188000	45703	0	0	0	0	0
KYGGPPPDSVYSGVQPGIGTEVFVGKIPR	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR	HUM	Unmodified	12785000	10287000	10449000	0	0	0	0	0	0
KYMEENDQLKK	BCAP31; BCAP31; B	P51572; C9J0M4;	BAP31	HUM.	Oxidation (M)	351350	389200	377430	42700	37137	36434	0	0	0
KYQLNLPPYPDTECVYR	NAXE; NAXE	Q8NCW5; A0A7P	NNRE	HUM/	Unmodified	0	0	1575500	0	0	0	0	0	0
KYSIFTEKDEILSDVASR	ATG4B; ATG4B; ATI	Q9Y4P1; F2Z2K8	ATG4B	HUM	Unmodified	590660	0	800830	0	0	0	0	0	0
KYTLPPGVDPTQVSSSLSPEGTLTVEAPMPK	HSPB1; HSPB1	P04792; A0A6Q8	HSPB1	HUM	Oxidation (M)	25168000	23162000	25629000	30302	0	0	82208	0	0
KYTLPPGVDPTQVSSSLSPEGTLTVEAPMPK	HSPB1; HSPB1	P04792; A0A6Q8	HSPB1	HUM	Oxidation (M);Met	1399100	1204300	1496500	0	0	0	0	0	0
KYVSQYYPK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM.	Unmodified	1003400	1303900	1773300	52772	0	70185	0	0	0
LAAAEETAVSPR	PAXX	Q9BUH6	PAXX	HUM/	Unmodified	1132700	505960	840750	300650	320310	317830	0	0	0
LAAAEGLEPK	PPP1R2B; PPP1R2; I	Q6NXS1; P41236;	IPP2B	HUM	Unmodified	1523100	1204400	1827000	128470	125410	121860	0	0	0
LAAAFAVSR	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUM	Unmodified	23454000	17367000	20955000	360600	370090	358950	0	8335.1	0
LAAAFAVSRLEQDEYALR	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUM	Unmodified	7220600	3639700	3314000	0	0	0	0	0	0
LAAAILGGVDQIHIKPGAK	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUM	Unmodified	4125000	2987800	3152000	0	0	0	0	0	0
LAAAQAAGLAAAHSVR	BLOC1S3; BLOC1S3	Q6QNY0; K7EN5(	BL1S3	HUM	Unmodified	1293200	887500	1270100	21981	0	0	0	0	0
LAACGPPPVAPPAAVAAGGAR	IGFBP2	P18065	IBP2	HUMA	Unmodified	3594900	3405500	0	88382	98050	75081	52930	57451	66839
LAADAGTFLSR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1	HUM	Unmodified	3548300	1570600	2083000	122750	100830	123740	0	0	20979
LAADDFRVKYETELAMR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM.	Oxidation (M)	811130	857440	832300	269500	155940	51956	0	44138	0
LAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Unmodified	9360400	9597800	8743400	0	0	0	0	0	0
LAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVKK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Unmodified	44322000	46228000	49662000	236350	369230	336860	0	0	0
LAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVKK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Methyl (KR)	5275300	5581500	4907900	0	0	0	0	0	0
LAADFQR	UFL1	O94874	UFL1	HUMA	Unmodified	1068800	2932200	1070300	136630	121810	127710	0	0	11289
LAADPSVVNLGQGFPDISPPTYVK	KYAT3; KYAT3	Q6YP21; A0A0A(	KAT3	HUMA	Unmodified	181160	233930	320880	0	0	0	0	0	0
LAADVGKAGAER	SLC25A5	P05141	ADT2	HUMA	Unmodified	844650	552550	664940	53363	70923	0	0	0	0
LAADVGKAGAEREFR	SLC25A5	P05141	ADT2	HUMA	Unmodified	0	1773900	1650900	204060	201400	259280	0	0	0
LAADVGKSGTER	SLC25A6	P12236	ADT3	HUMA	Methyl (KR)	539040	232780	0	0	21534	0	0	0	0
LAAEATEWQR	SRPK1; SRPK1	Q96SB4; H3BLV5	SRPK1	HUM.	Unmodified	661510	704930	1206400	0	0	0	0	0	0
LAAELEDR	RPRD1B; RPRD1B; I	Q9NQG5; A2A2M	RPR1B	HUM	Unmodified	1269900	1403200	0	0	21075	0	0	0	0
LAAEQELIR	PLEC	Q15149	PLEC	HUMA	Unmodified	6467600	5329700	5972300	1077500	1047400	1151400	76942	0	53369
LAAEQELIRLR	PLEC	Q15149	PLEC	HUMA	Unmodified	0	0	0	103080	73390	72038	9958.9	9515.8	12543
LAAFGQLHK	ILF3	Q12906	ILF3	HUMAN	Unmodified	5177600	3461500	5336200	0	0	0	0	0	0
LAAGDQLLSVDGR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM/	Unmodified	761890	629640	0	167630	66973	68773	0	0	0
LAAGGPWAR	DLL3	Q9NYJ7	DLL3	HUMA	Unmodified	2441200	2315600	1462600	0	0	0	0	0	0
LAAGPTFQHFLK	CDK5RAP1	Q96SZ6	CK5P1	HUM.	Unmodified	1329200	713460	0	0	27094	0	0	0	0
LAAGSAIMK	PDS5A	Q29RF7	PDS5A	HUM	Oxidation (M)	1796500	1248100	1077000	0	0	0	0	0	0
LAAGSAIVK	PDS5B	Q9NTI5	PDS5B	HUM.	Unmodified	0	0	0	0	0	0	0	0	0
LAAIAESGVER	PSMB6	P28072	PSB6	HUMA	Unmodified	26240000	23495000	24588000	642230	729250	719050	120590	0	0
LAAIAESGVERQVLLGDQIPK	PSMB6	P28072	PSB6	HUMA	Unmodified	2676100	2241300	3157300	53021	0	0	52312	0	0
LAAKGEATR	PLEC	Q15149	PLEC	HUMA	Unmodified	906730	922860	817180	0	0	0	0	0	0
LAAIIPDPVVAPSIVPVLK	CSTF3; CSTF3	Q12996; E9PLP8	CSTF3	HUM.	Unmodified	0	0	0	0	0	0	0	0	0
LAALADQWQFLVQK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	1687300	906840	1595600	0	0	0	0	0	0
LAALEEQR	PES1; PES1; PES1; P	O00541; B3KXD6	PESC	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LAALEEQRMEGK	PES1; PES1; PES1; P	O00541; B3KXD6	PESC	HUMA	Oxidation (M)	0	2362300	1135700	0	0	51679	0	0	0
LAALEQNVERR	BAZ2A; BAZ2A; BA	Q9UIF9; F8VU39;	BAZ2A	HUM	Unmodified	446380	402140	433660	32803	0	0	0	0	0
LAALNGKGLGEISAASEFK	NCAM1; NCAM1; NI	P13591; A0A087\	NCAM1	HUM.	Deamidation (N)	1413600	2276400	1355700	0	0	0	0	0	0
LAALNPESNTAGLDIFAK	CLIC1	O00299	CLIC1	HUM/	Unmodified	10394000	7127500	9107600	0	32149	23322	49715	0	29198
LAALNPESNTAGLDIFAK	CLIC1	O00299	CLIC1	HUM/	Deamidation (N)	6636000	4448900	7254100	0	0	0	0	0	0
LAALPENPPAIDWAYYK	ATP5PD; ATP5PD	O75947; F5H608	ATP5H	HUM	Unmodified	12975000	9608600	13282000	0	0	0	0	0	0
LAALPENPPAIDWAYYKANVAK	ATP5PD; ATP5PD	O75947; F5H608	ATP5H	HUM	Unmodified	2533000	2931100	2393200	0	0	0	0	0	0
LAALPENPPAIDWAYYKANVAK	ATP5PD; ATP5PD	O75947; F5H608	ATP5H	HUM	Methyl (KR)	826430	1169500	700620	0	0	0	0	0	0
LAALPNVYEVISK	MCM5; MCM5	P33992; B1AHB1	MCM5	HUM.	Unmodified	12304000	13667000	11296000	0	0	0	12643	0	0
LAALQGRLEGLGSSEADQDGLASTVR	CKAP4	Q07065	CKAP4	HUM	Unmodified	2501600	963090	4053900	0	0	0	0	0	0
LAALSASLAR	PES1; PES1; PES1	O00541; B3KXD6	PESC	HUMA	Unmodified	2298300	1380100	2286700	126630	85833	79974	0	0	0
LAALTAGDR	CPT1A	P50416	CPT1A	HUM	Unmodified	591290	713940	0	0	0	0	0	0	0
LAALTAGDRVPWAR	CPT1A	P50416	CPT1A	HUM	Unmodified	4984100	5083800	4369300	155210	152370	127110	41214	0	34391
LAAMASIR	MRPL13; MRPL13; I	Q9BYD1; E5RFI2	RM13	HUMA	Oxidation (M)	459900	376680	363100	0	0	0	0	0	0
LAAMPALR	LRRC20; LRRC20; L	Q8TCA0; X6RR5(	LRC20	HUM.	Oxidation (M)	2707600	3004300	2283800	51065	0	29489	0	0	0
LAANAFLAQR	UGDH	O60701	UGDH	HUM/	Unmodified	1426400	1891000	1764800	456760	424790	398260	58006	47784	0
LAANAFLAQR	UGDH	O60701	UGDH	HUM/	Deamidation (N)	0	0	0	104320	182330	0	0	34566	0
LAAQFIPK	API5; API5; API5	Q9BZZ5; E9PQK4	API5	HUMA	Unmodified	8061100	6271500	7450400	72927	0	82556	0	0	0
LAAQLEAPRPPR	SSH3; SSH3; SSH3	Q8TE77; A0A087	SSH3	HUMA	Unmodified	1326800	617580	0	0	0	0	0	0	0
LAAQSQHVGFAR	ZMYM4; ZMYM4	Q5VZL5; H7C1I7	ZMYM4	HUM	Unmodified	926240	1329300	0	0	75400	0	0	0	0
LAAQVLGLLLEK	MROH1; MROH1	Q8NDA8; E9PHY	MROH1	HUM	Unmodified	189280	110660	201630	0	0	0	0	0	0
LAASEAATAISHQAIQILGGMGYVTEMPAER	ACADS; ACADS	P16219; E9PE82	ACADS	HUM	2 Oxidation (M)	2409100	877890	1041000	0	0	0	0	0	0
LAASGEGGLQELSGHFENQK	DBN1; DBN1	Q16643; D6RFI1	DREB	HUMA	Unmodified	3029100	2937200	3516900	0	0	0	0	0	0
LAASGEGGLQELSGHFENQK	DBN1; DBN1	Q16643; D6RFI1	DREB	HUMA	Deamidation (N)	960520	840170	0	0	0	0	0	0	0
LAASTEPQGPRPVLGR	STARD10; STARD1(	Q9Y365; F5H1Z6:	STA10	HUM.	Unmodified	3393300	4628500	4419200	164390	0	229060	120440	186790	0
LAASVPYVK	XPO7; XPO7	Q9UIA9; E7ESC6	XPO7	HUMA	Unmodified	1049400	1060400	858980	0	0	0	0	0	0
LAATNALLNSLEFTK	KPNB1; KPNB1	Q14974; J3KTM9	IMB1	HUMA	2 Deamidation (N)	2658800	2704500	3345500	0	0	0	0	0	0
LAATNALLNSLEFTK	KPNB1; KPNB1	Q14974; J3KTM9	IMB1	HUMA	Deamidation (N)	5885300	4257600	5308100	0	0	0	0	0	0
LAATNALLNSLEFTK	KPNB1; KPNB1	Q14974; J3KTM9	IMB1	HUMA	Unmodified	10557000	7201400	8209200	0	0	0	0	0	19230
LAATPSPGASQVYEALLPQYAK	XYLB	O75191	XYLB	HUM/	Unmodified	1261300	1681900	677760	0	0	0	0	0	0
LAAVDATVNQVLASR	PDIA6	Q15084	PDIA6	HUM/	Deamidation (N)	4631600	4345600	5552300	140080	184220	179360	8432.9	0	0
LAAVDATVNQVLASR	PDIA6	Q15084	PDIA6	HUM/	Unmodified	65529000	47213000	41932000	186420	71190	60999	88609	0	41123
LAAVDATVNQVLASRYGIR	PDIA6	Q15084	PDIA6	HUM/	Unmodified	1565900	0	1056000	0	0	0	0	0	0
LAAVQLLQFLAPK	TEX10	Q9NXF1	TEX10	HUM.	Unmodified	166730	98095	120500	0	0	0	0	0	0
LACDVDQVTR	PRKDC	P78527	PRKDC	HUM.	Unmodified	4569500	3662900	3980800	0	0	0	0	0	0
LACGIIAR	CCS; CCS; CCS	O14618; J3KNF4;	CCS	HUMAN	Unmodified	1296100	1272500	921560	64260	67334	68729	0	9091.7	0
LADALQELR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM.	Unmodified	14180000	10390000	11052000	720730	1001100	963460	63862	30520	39603
LADALQELRAQHEDQVEQYKK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM.	Unmodified	5559800	5438800	4008400	70176	83939	0	0	0	0
LADALQELRAQHEDQVEQYKKELEK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM.	Unmodified	3994700	3932700	4446800	0	0	0	0	0	0
LADDLNEK	MRTFA; MRTFB; M	Q969V6; Q9ULH7	MRTFA	HUM	Unmodified	2699000	2162000	2688300	382340	0	229020	0	0	0
LADDLSTLQEK	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	7805800	0	9189700	222340	0	0	0	0	0
LADDLSTLQEKMAATSK	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Oxidation (M)	1650400	1019400	1030700	27865	16598	15688	0	0	0
LADDLSTLQEKMAATSKEVAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Oxidation (M)	1740700	1586100	1583100	0	0	0	0	0	0
LADDSEPTVR	PPP4R1; PPP4R1; PI	Q8TF05; J3KRU1	PP4R1	HUM	Unmodified	1175300	775710	660880	0	0	0	0	0	0
LADELHMPSLPEMMFGDNVLR	TIPRL	O75663	TIPRL	HUM/	3 Oxidation (M)	1127700	0	2452900	0	0	0	0	0	0
LADFGLAR	CDK13; CDK12; CDI	Q14004; Q9NYV4	CDK13	HUM	Unmodified	34931000	21750000	29395000	437510	465720	425610	45267	32073	0
LADFGVAGQLTDTMAK	STK3; STK4; STK4	Q13188; Q13043;	STK3	HUMA	Oxidation (M)	2808100	2860800	2240800	46671	100170	42364	10096	0	0
LADFGVAGQLTDTMAKR	STK3; STK4; STK4	Q13188; Q13043;	STK3	HUMA	Oxidation (M)	2300300	1808900	2539800	168850	143580	87229	0	0	0
LADFGVAGQLTDTQIKR	STK24; STK25; STK	Q9Y6E0; O00506;	STK24	HUM.	Unmodified	3229400	2597300	3453400	71135	59896	40919	0	0	0
LADFGVLHRNELSGALTGLTR	TARS1	P26639	SYTC	HUMA	Unmodified	6403600	6707300	6670000	0	0	0	0	0	0
LADFGVLHRNELSGALTGLTR	TARS1	P26639	SYTC	HUMA	Deamidation (N)	5799000	3074100	3035900	0	0	0	0	0	0
LADGGATNQGR	LGALS3BP; LGALS:	Q08380; K7ES75;	LG3BP	HUM	Unmodified	169280	521890	162560	20981	0	0	0	0	0
LADGGATNQGRVEIFYR	LGALS3BP; LGALS:	Q08380; K7ES75;	LG3BP	HUM	Unmodified	2487500	2565600	2209000	0	0	0	0	0	0
LADGGATNQGRVEIFYR	LGALS3BP; LGALS:	Q08380; K7ES75;	LG3BP	HUM	Deamidation (N)	2293300	2679900	3027700	0	0	0	0	0	0
LADINYEGR	NUP98; NUP98	P52948; A0A3B3I	NUP98	HUM.	Unmodified	0	0	568590	0	0	0	0	0	0
LADINYEGRLEAVSR	NUP98; NUP98	P52948; A0A3B3I	NUP98	HUM.	Unmodified	620040	476970	400830	0	0	0	7796.1	0	0
LADIQIEQLNR	PFDN1; PFDN1	O60925; E5RGS4	PFD1	HUMA	Unmodified	6892000	4342700	4249800	117240	146400	102740	0	0	0
LADIVVPR	UCKL1	Q9NWZ5	UCKL1	HUM.	Unmodified	918240	667440	1131000	94498	81295	91634	0	0	0
LADKVNSSWQR	PLPBP; PLPBP; PLP	O94903; E5RFX7;	PLPHP	HUM	Deamidation (N)	1313900	1341100	1235500	0	0	0	0	0	0
LADKVNSSWQR	PLPBP; PLPBP; PLP	O94903; E5RFX7;	PLPHP	HUM	Unmodified	589480	424760	551440	0	0	0	0	0	0
LADLEALK	RNASEH2A; RNASE	O75792; A0A2R8	RNH2A	HUM	Unmodified	804240	1197800	1159700	0	0	0	0	0	0
LADLEALKVADSK	RNASEH2A; RNASE	O75792; A0A2R8	RNH2A	HUM	Unmodified	1238700	931230	1278500	26366	0	0	0	0	0
LADLIER	ALDH2; ALDH1A1;	P05091; P00352;	ALDH2	HUM	Unmodified	421040	341070	241930	0	0	0	0	0	0
LADMALALESAR	ACADS; ACADS	P16219; E9PE82	ACADS	HUM	Oxidation (M)	896320	0	1245200	0	0	0	0	0	0
LADMHSTEISLQQR	NUP155; NUP155	O75694; E9PF10	NU155	HUM.	Oxidation (M)	414840	0	543110	0	0	0	0	0	0
LADQPLTPK	UBL7; UBL7; UBL7	Q96S82; H3BUV9	UBL7	HUM	Unmodified	898840	1177800	1127500	0	0	0	0	0	0
LADQSGLDVIR	MRPL43; MRPL43; I	Q8N983; H0Y6Y8	RM43	HUMA	Unmodified	0	1914400	1877800	0	0	0	0	0	0
LADSGDGAGPSPEEKDFLK	GPKOW	Q92917	GPKOW	HUM	Unmodified	1435900	1455900	165880	0	33829	76778	0	0	0
LADSGDGAGPSPEEKDFLKTVEGR	GPKOW	Q92917	GPKOW	HUM	Unmodified	602840	917320	549040	0	0	0	0	0	0
LADSLRLQQLFR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	402010	332770	374920	0	0	0	0	0	0
LADYCAGAMFVQQLLSR	ENTPD2	Q9Y5L3	ENTP2	HUM.	Oxidation (M)	342540	219980	259120	0	0	0	0	0	0

LAEAEETAR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2	HUM	Unmodified	8775200	11288000	9463600	927050	919530	960530	0	0	0
LAEAEKSQLIMQAEAEAASVR	FLOT1; FLOT1; FLO	O75955; A0A140T	FLOT1	HUM	Oxidation (M)	0	935100	3301100	0	0	0	0	0	0
LAEAFKYFVQGMGYMPSASMTR	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1	HUM	3 Oxidation (M)	13147000	11593000	12226000	32048	0	0	0	0	0
LAEALYIADR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1	HUM	Unmodified	532050	484260	688890	0	0	0	0	0	0
LAEALYIADRK	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1	HUM	Unmodified	966050	893530	925930	0	0	0	0	0	0
LAEAPSPAPTPSPTPVEDLGPQTSTSPGR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	7105600	6210900	6464800	169480	74232	71441	0	0	0
LAEAQIEELR	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH	HUN	Unmodified	8241700	7693900	5697800	235060	253930	209410	0	0	0
LAEAQIEELRQK	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH	HUN	Unmodified	8034300	5544200	5852700	191590	162880	163310	0	0	0
LAEDEAFQR	PLEC	Q15149	PLEC	HUM	Unmodified	1077200	913050	1081600	189440	177980	189010	0	0	0
LAEDEAFQRR	PLEC	Q15149	PLEC	HUM	Unmodified	0	658580	0	77045	185100	123760	0	10973	0
LAEEEDLFDSAHPEEGDLDLASESTAHAQSSK	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	8094200	5177700	4736800	0	0	0	0	0	0
LAEEENK	FKBP4; FKBP4	Q02790; H0YFG2	FKBP4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAEEESCREDVTR	GLG1; GLG1; GLG1;	Q92896; H3BRD8	GSLG1	HUM	Unmodified	0	0	1438500	100150	75946	87048	0	0	0
LAEEKAQASSIPVGSR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	4507100	4201500	4866000	199750	207330	268680	0	0	0
LAEELVAEEERMKQAEK	TTC31; TTC31	Q49AM3; G5E9H	TTC31	HUM	Oxidation (M);2 M	2454100	1611400	1404300	0	0	0	0	0	0
LAEENPDLQEAYIAK	GDAP1; GDAP1; GD	Q8TB36; A0A6Q8	GDAP1	HUM	Unmodified	3433200	3620200	4008200	0	0	0	0	0	0
LAEEQLR	DHX38; ARGLU1; D	Q92620; Q9NWB	PRP16	HUM	Unmodified	5516300	3059900	3208900	0	100310	74809	0	0	67269
LAEFSSQAAEEEEKVK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14	HUM	Unmodified	0	0	3678900	0	0	0	0	0	0
LAEGEEEKPEPDISSEESVSTVEEQENETPPATSSEAEQPK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK8	HP1B3	HUM	Deamidation (N)	2599500	2356300	2480200	0	0	0	0	0	0
LAEIGAPIQGNR	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	800260	899170	1003700	0	0	0	0	0	0
LAEIGAPIQGNREELVER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	17565000	16925000	16492000	137610	91158	132400	0	0	0
LAEIGAPIQGNREELVER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Deamidation (N)	13529000	13225000	12529000	28038	43651	40752	0	0	0
LAEIRQQIPVFR	NIT2	Q9NQR4	NIT2	HUMA	Unmodified	0	0	859370	0	0	28263	0	0	0
LAEISDVWEEMK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Oxidation (M)	745400	495170	0	0	0	0	0	0	0
LAEISDVWEEMKTTLK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1166900	1318900	1550800	0	0	0	0	0	0
LAEKTETVDRLER	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14	HUM	Unmodified	2147600	6104300	4836600	0	0	0	0	0	0
LAELEEFINGPNNAHIQQVGDR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	2 Deamidation (N)	2735200	1357300	1870400	0	0	0	0	0	0
LAELEEFINGPNNAHIQQVGDR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	3 Deamidation (N)	2242300	723090	1013400	0	0	0	0	0	0
LAELEEFINGPNNAHIQQVGDR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	Deamidation (N)	0	794550	0	0	0	0	0	0	0
LAELKQECLAR	SARNP; SARNP; SAI	P82979; F8VZQ9;	SARNP	HUM	Unmodified	1924800	1657800	0	0	0	0	0	0	0
LAELLVSVLEQGLPPSHR	RIC8A; RIC8A	Q9NPQ8; E9PSI0	RIC8A	HUM	Unmodified	224480	144360	168520	0	0	0	0	0	0
LAELPPTPLR	NAV1; NAV1; NAV1	Q8NEY1; A0A0A	NAV1	HUM	Unmodified	732300	451350	604870	0	0	10708	0	0	0
LAELQEQLK	BRD4; BRD3; BRD4	O60885; Q15059;	BRD4	HUM	Unmodified	0	0	1959500	0	0	0	0	0	0
LAELSDYR	RBM14	Q96PK6	RBM14	HUM	Unmodified	4469500	3377400	4080700	125890	0	137650	0	0	0
LAEMDRDLMVGKLER	LZIC; LZIC	Q8WZA0; K7ES9:	LZIC	HUMA	2 Oxidation (M)	1449700	766880	1005600	0	0	0	0	0	0
LAEMPADSGYPAYLGAR	ATP6V1A	P38606	VATA	HUM	Oxidation (M)	3059400	3058700	2780800	0	40687	31044	0	0	0
LAENFCVCHLATGDMLR	AK2; AK2; AK2; AK	P54819; G3V213;	KAD2	HUMA	Oxidation (M)	605940	871450	725390	48790	14219	0	0	0	0
LAENIDAQLKR	NUP62; NUP62	P37198; M0QXN5	NUP62	HUM	Unmodified	2478900	1956800	1622900	0	0	0	0	0	0
LAEPSQLLK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUMA	Unmodified	8798500	6904500	6719000	482590	434520	516160	0	0	0
LAEPSQMLK	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1	HUM	Oxidation (M)	3347000	6851000	3512000	752210	1045400	506600	34540	22593	113290
LAEQAER	SFN; YWHAB; YWH	P31947; P31946;	1433S	HUMA	Unmodified	196060000	174130000	166120000	8512200	15473000	8232900	0	63252	57476
LAEQAERYDDMAAAMK	YWHAB; YWHAG;	P31946; P61981;	1433B	HUM	2 Oxidation (M)	41463000	41530000	37697000	3916300	3576100	3086900	0	0	0
LAEQAERYDDMAAAMKNVTELNEPLSNEER	YWHAG	P61981	1433G	HUM	2 Oxidation (M)	2604300	2317400	3711900	0	0	0	0	0	0
LAEQAERYDDMAACMK	YWHAZ; YWHAZ;	P63104; E5RGE1;	1433Z	HUM	2 Oxidation (M)	20279000	23285000	19429000	1197900	982110	1008400	0	19954	0
LAEQAERYDDMASAMK	YWHAH; YWHAH;	Q04917; F8WEB6	1433F	HUM	2 Oxidation (M)	10100000	11888000	11019000	349150	133890	74153	0	14953	0
LAEQAERYDDMATCMK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUM	2 Oxidation (M)	10345000	12430000	10752000	288620	401170	514020	0	0	0
LAEQAERYDEMVESMK	YWHAE; YWHAE; Y	P62258; IL3T1; I	1433E	HUM	2 Oxidation (M)	7474300	9120400	7361400	457690	618340	251050	0	0	0
LAEQAERYDEMVESMKK	YWHAE; YWHAE; Y	P62258; IL3T1; I	1433E	HUM	2 Oxidation (M)	102570000	118960000	83609000	3366300	3489200	3788300	96289	0	53176
LAEQAERYDEMVESMKK	YWHAE; YWHAE; Y	P62258; IL3T1; I	1433E	HUM	2 Oxidation (M);M	3086500	3507100	3060400	68592	0	0	0	0	0
LAEQAERYDEMVESMKKVAGMDVELTVEER	YWHAE; YWHAE; Y	P62258; IL3T1; I	1433E	HUM	3 Oxidation (M)	0	2550200	3045200	0	0	0	0	0	0
LAEQAERYEDMAAFMK	SFN	P31947	1433S	HUMA	2 Oxidation (M)	10680000	12156000	9226400	0	20813	0	0	0	0
LAEQFPR	BTF3L4; BTF3L4	Q96K17; E9PL10	BTF3L4	HUM	Unmodified	7915500	8472600	8230700	69734	44919	0	0	0	0
LAEQQDLQR	SYNE2; SYNE2; SY	Q8WXH0; A0A1V	SYNE2	HUM	Unmodified	3429800	2124900	0	78414	93998	0	0	0	0
LAEQVSSYNESKR	GPALPP1; GPALPP1	Q8IXQ4; A0A0A0	GPAM1	HUM	Unmodified	383270	440150	576180	0	0	0	0	0	0
LAESVEKAIEEK	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	795980	1204700	0	0	0	0	0	0	0
LAETMNNIDRLR	FNBP1L; FNBP1L	Q5T0N5; A0A075	FBP1L	HUM	Oxidation (M);Deai	855740	880700	857940	43299	38949	33493	0	0	0
LAETQEEISAEVAAK	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2	HUM	Unmodified	7821800	7453200	6423400	270750	203970	76914	0	0	0
LAETQEEISAEVAAKAER	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2	HUM	Unmodified	3096300	2080600	1823900	0	0	0	0	0	0
LAETQEEISAEVSAK	LUC7L; LUC7L; LUC	Q9NQ29; A8MYV	LUC7L	HUM	Unmodified	727060	591920	574400	0	0	0	0	0	0
LAETQNIAPSFVK	YME1L1; YME1L1;	Q96TA2; Q96I63;	YME1L	HUM	Unmodified	1018800	944300	1003000	0	0	0	0	0	0
LAETYLHR	DDX6	P26196	DDX6	HUM	Unmodified	592000	625640	541280	0	0	0	0	0	0
LAEVALAYAK	ALAD	P13716	HEM2	HUM	Unmodified	1768000	673560	580330	240280	134670	246830	0	0	0
LAEVEAALEK	PLEC	Q15149	PLEC	HUM	Unmodified	0	1214200	0	201670	141570	121020	0	0	0
LAEVEAALEKQR	PLEC	Q15149	PLEC	HUM	Unmodified	1363600	0	714130	159240	167860	0	0	0	0
LAEVQREAQSTAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUN	Unmodified	1641400	155940	1846700	167100	167320	183210	0	0	0
LAEYYGLYRDLFHGATFVPR	MRPL38	Q96DV4	RM38	HUM	Unmodified	511080	0	539800	0	0	0	0	0	0
LAFEYQR	DHTKD1; DHTKD1	Q96HY7; H7C1J3	DHTK1	HUM	Unmodified	1408000	1327400	1288800	0	46452	37927	0	0	0
LAFLLFK	MRPL38	Q96DV4	RM38	HUM	Unmodified	2258500	2067900	2042000	9997.9	0	0	0	0	0
LAFLNVQAAEEALPR	GPD2	P43304	GPDM	HUM	Unmodified	8438600	8159000	6782400	0	0	0	9859.4	0	0
LAFNSLLEKAEAR	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A	HUM	Deamidation (N)	355440	197160	215300	0	0	0	0	0	0
LAFNSLLEKAEAR	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAFPSPFGHLSEGFSHSR	SQSTM1; SQSTM1;	Q13501; E9PFW8	SQSTM	HUM	Unmodified	688850	697370	576080	0	0	0	0	0	0
LAFSSTAR	PMPCA	Q10713	MPPA	HUM	Unmodified	439220	1926500	1099200	0	0	0	0	0	0
LAFTVDDNPTKPTTR	WWOX; WWOX	Q9NZC7; F5H3R5	WWOX	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAGANPAVITCDELLLGHEK	PRKDC	P78527	PRKDC	HUM	Unmodified	5803900	6728400	8246400	20185	40231	0	0	0	19317
LAGAPSEDPQFPK	QSOX1	O00391	QSOX1	HUM	Unmodified	1149400	1204400	1240100	479530	496900	457910	0	0	0
LAGASPATVAAAAAAGSGPKDPMAR	FLII	Q13045	FLII	HUMA	N Oxidation (M)	1830100	1521000	1896200	0	0	135810	0	0	0
LAGASPATVAAAAAGSGPKDPMAR	FLII	J3KS54	J3KS54	HUM	Oxidation (M)	1227500	1261000	1915500	234590	0	0	0	0	0
LAGDKANYWWLR	ATIC; ATIC	P31939; H7C1S2	PUR9	HUM	Unmodified	0	0	2249800	0	0	0	0	0	0
LAGDPSAGDGAAPR	PDXP	Q96GD0	PLPP	HUM	Unmodified	0	439040	0	0	0	109540	0	0	0
LAGEELAGEEAPQEK	HDGFL2; HDGFL2; I	Q7Z4V5; A0A087	HDGR2	HUM	Unmodified	4073600	5439200	4552700	92579	129830	104030	0	0	0
LAGESESNLR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	17290000	15447000	16790000	763960	758540	0	0	0	0
LAGESESNLRK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	13121000	10125000	14856000	353570	360640	743360	0	0	0
LAGESESNLRK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Deamidation (N)	988570	255720	1540400	0	0	0	0	0	0
LAGFQQFLQSLQPR	DDX12P; DDX11; DI	Q92771; Q96FC9;	DDX12	HUM	Unmodified	255400	262910	176120	0	0	0	0	0	0
LAGGDWFTSR	PPP2R1A; PPP2R1A	P30153; C9J9C1	2AAA	HUM	Unmodified	7874400	7424100	8118400	66428	95778	70055	0	0	0
LAGGQTSQPTTPLTSPQR	UBE4B; UBE4B	O95155; B1AQ61	UBE4B	HUM	Unmodified	1061400	1065200	1187400	42990	0	43445	0	0	0
LAGGYENVPTVDIHMK	PLOD3	O60568	PLOD3	HUM	Oxidation (M)	1212600	1522600	2313700	0	143390	216640	0	0	0
LAGLALPR	DUSP23	Q9BVJ7	DUS23	HUM	Unmodified	2069400	1820700	1575900	14515	0	14442	0	0	0
LAGLFNEQR	HYOU1; HYOU1; H	Q9Y4L1; E9PJ21;	HYOU1	HUM	Unmodified	4802500	5380300	5455500	0	101850	121650	0	0	0
LAGLFNEQR	HYOU1; HYOU1; H	Q9Y4L1; E9PJ21;	HYOU1	HUM	Deamidation (N)	3465200	3301900	1908600	0	0	0	0	0	0
LAGLSAALLR	ALDH5A1; ALDH5A	P51649; A0A5F9	SSDH	HUM	Unmodified	4016200	3505800	4502100	297110	259540	177610	0	0	0
LAGMSISR	MRPL34	M0R093	M0R093	HUM	Oxidation (M)	712190	0	0	0	0	0	0	0	0
LAGPQLVQMFIGDGAK	PSMC3; PSMC3; PS	P17980; E9PN50;	PRS6A	HUM	Oxidation (M)	423270	415530	395560	0	0	0	0	0	0
LAGTESPVREEPGEDFPAAR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUMA	Unmodified	1419100	0	1664200	0	0	0	0	0	0
LAGTQPLEVLEAVQR	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUMA	Unmodified	82830000	64803000	77607000	185770	164850	103850	87761	80467	40317
LAGVTALSCWLPLR	LYPLA1; LYPLA1; I	O75608; A0A087	LYPA1	HUM	Unmodified	243200	380800	532250	0	0	0	0	0	0
LAGVTLGQR	DNMT1; DNMT1; DI	P26358; A0A7I2	DNMT1	HUM	Unmodified	2725800	3370800	1849500	0	0	0	0	0	0
LAGWVLSK	CLGN; CLGN	O14967; D6RAZ4	CLGN	HUM	Unmodified	2109300	1382300	1907300	0	0	0	0	0	0
LAHEVGWK	RPL13A; RPL13A; R	P40429; A0A7I2	RL13A	HUM	Unmodified	467730	298120	376420	0	0	0	0	0	0
LAHLGVQVK	RPN1; RPN1	P04843; F8WF32	RPN1	HUMA	Unmodified	735140	2133600	7277500	20473	0	0	0	0	0
LAIAERYLVPQAR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM	HUM	Unmodified	0	0	0	37178	52286	0	0	12343	0
LAIKLPDDQIPK	PFKP; PFKP; PFKP	Q01813; A0A7I2	PFKAP	HUM	Unmodified	5325200	5180100	4670600	42419	59298	0	27522	0	0
LAILDSQAGQIR	PHLDB1; PHLDB1	Q86UU1; A0A087	PHLB1	HUM	Unmodified	0	0	1864700	0	0	0	0	0	0
LAILGIHNEVSK	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Unmodified	5384700	6220200	5847800	64165	68103	77584	36774	25613	0
LAILGIHNEVSK	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Deamidation (N)	1199900	816020	551110	0	0	0	0	0	0
LAIQFGNYK	BGN	P21810	PGS1	HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	72773
LAIQGPEDSPSR	MLF2	Q15773	MLF2	HUMA	Unmodified	1628500	1694300	1414400	92802	70720	110220	0	0	0
LAIWDTAGQER	RAB21; RAB18	Q9UL25; Q9NP72	RAB21	HUM	Unmodified	915480	1051000	959540	0	0	0	0	0	0
LAKADGIVSK	RPS21; RPS21	P63220; Q8WVC2	RS21	HUMA	Unmodified	1241300	1157500	1286500	314600	263450	270040	0	0	0
LAKADGIVSKNF	RPS21	P63220	RS21	HUMA	Unmodified	0	0	0	1475400	1307400	1347300	279130	161540	372490
LAKENAPAIIFIDEIDAIATKR	PSMC4	P43686	PRS6B	HUM	Unmodified	521250	352690	400840	0	0	0	0	0	0
LAKGESGILGKDGLK	PRPF4	O43172	PRP4	HUMA	Unmodified	0	250910	528640	0	0	0	0	0	0
LAKLQDPFSLYR	SDHB	P21912	SDHB	HUMA	Unmodified	317760	235420	244210	0	66115	0	0	16465	12876
LAKLQDPFSLYR	SDHB	P21912	SDHB	HUMA	Methyl (KR)	0	1171600	0	56535	0	0	0	0	0
LAKLSDGVAVLK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Methyl (KR)	1354800	1070400	881220	0	0	0	0	0	0
LAKVDATEESDLAQQYGVR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	61926000	55173000	56508000	2242800	1200100	961200	202210	154430	148420
LAKVDATEESDLAQQYGVR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Methyl (KR)	5449500	6019500	6140000	141150	92657	37645	0	0	0
LAKYNQLLR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	709290	758490	0	0	0	0	0	0	0
LAKYNQLLRIEEELGSK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Deamidation (N)	9345900	7195600	6703700	0	0	0	0	0	0
LAKYNQLLRIEEELGSK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	1147800	1910200	1249300	0	0	0	0	0	0
LAKYNQLLRIEEELGSKAK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	7046600	6958700	6658800	0	0	0	0	0	0
LAKYNQLLRIEEELGSKAK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Deamidation (N)	1516800	1531900	2270500	0	0	0	0	0	0
LAKYNQLMRIEEELGDEAR	ENO2; ENO2	P09104; F5H0C8	ENOG	HUM	Oxidation (M);Deai	1794400	775670	615940	0	0	0	0	0	0
LALASLGYEK	PDCD6IP; PDCD6IP	Q8WUM4; A0A3I	PDC6I	HUM	Unmodified	845490	581840	735510	19645	23990	0	0	0	0
LALDGETLGEEEQEDEQPPWASPSPTSR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	0	4926100	5489900	0	0	0	0	0	0
LALDMEIHAYR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Oxidation (M)	3269800	3854000	3307900	210490	180830	176740	13380	0	0
LALDMEIHAYRK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Oxidation (M)	2036500	2097200	2309500	164210	119770	65494	0	0	0
LALDMEINAYR	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	1148300	1876700	1235500	149570	69600	74349	0	0	0
LALDMEINAYRK	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	2268700	2381400	2688400	186480	148950	119230	0	0	0
LALDMEISAYR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1	HUM	Oxidation (M)	5754200	8654700	7413300	0	59295	0	0	0	0
LALDMEISAYRK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1	HUM	Oxidation (M)	9107600	7161300	9465500	0	81098	74139	0	0	0

LALDVGIK	RAB8A	P61006	RAB8A	HUM	Unmodified	2466300	2861000	2690300	75006	87179	76560	0	0	0
LALEELR	RNF2	Q99496	RING2	HUM	Unmodified	992360	978540	966710	0	0	0	0	0	0
LALEQER	PKP3	Q9Y446	PKP3	HUM	Unmodified	1845300	386400	648260	0	0	42387	29380	0	0
LALEVAEK	TRAPPC4; TRAPPC	Q9Y296; J3KP27;	TPPC4	HUM	Unmodified	0	379150	459190	0	0	0	0	0	0
LALGDDSPALK	GOT1	P17174	AATC	HUM	Unmodified	2289200	1939600	1693100	55802	0	38883	0	0	0
LALGDDSPALKEK	GOT1	P17174	AATC	HUM	Unmodified	0	0	2799700	0	0	0	0	0	0
LALGDDSPALKEKR	GOT1	P17174	AATC	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LALGIPLPELR	CAD; CAD	P27708; F8VPD4	PYR1	HUM	Unmodified	870130	412620	705060	0	0	0	9405	0	0
LALGQINIAK	GTPBP4; GTPBP4	Q9BZE4; Q5T3R7	GTPB4	HUM	Unmodified	0	620680	446440	0	0	0	0	0	0
LALIQPSR	PSPH; PSPH	P78330; C9JBI3	SERB	HUM	Unmodified	2526800	1918800	2341500	0	0	0	0	0	0
LALIQPSREQVQR	PSPH; PSPH	P78330; C9JBI3	SERB	HUM	Unmodified	2035600	2732200	2624300	0	0	0	0	0	0
LALLEEAR	CROCC; CROCC	Q5TZA2; B1AKD	CROCC	HUM	Unmodified	15728000	11381000	14253000	908130	811730	830460	37332	29376	0
LALLHEGTGPR	SMC3	Q9UQE7	SMC3	HUM	Unmodified	938290	765140	634120	0	0	0	0	0	0
LALLNEK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Deamidation (N)	507440	0	515160	0	0	20060	0	0	0
LALLNEKQAASPLEPK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Deamidation (N)	1376300	1381800	1623900	46701	43774	35295	0	0	0
LALLNVATQGVHLWDLQDR	WDR26; WDR26; WI	Q9H7D7; H0Y9R7	WDR26	HUM	Unmodified	254730	42177	69625	0	0	0	0	0	0
LALLQVR	HK2; HKDC1; HK1;	P52789; Q2TB90;	HXK2	HUM	Unmodified	613240	393820	172900	0	0	0	0	0	0
LALLVDTVGPR	CPQ; CPQ; CPQ; CPI	Q9Y646; E5RJP8;	CBPQ	HUM	Unmodified	1219000	997770	1228800	94548	38688	64684	10887	0	8532
LALPADIR	NAA25	Q14CX7	NAA25	HUM	Unmodified	0	0	0	0	1255600	0	0	0	0
LALPGHAESYNPPPEYLLSEEER	BOP1	Q14137	BOP1	HUM	Unmodified	1802700	1773700	1876600	0	0	0	0	0	0
LALPQSDASLLSR	HEATR1; HEATR1; I	Q9H583; Q6P664;	HEAT1	HUM	Unmodified	717510	529660	556320	0	0	0	0	0	0
LALQALTEK	CKAP4	Q07065	CKAP4	HUM	Unmodified	3159700	3070600	2650700	68240	81191	85475	0	0	0
LALQALTEKLLR	CKAP4	Q07065	CKAP4	HUM	Unmodified	799670	450960	529120	0	0	0	0	0	0
LALQLHPDRNPDDPQAQEK	DNAJB11; DNAJB11	Q9UBS4; A0A7P(	DJB11	HUM	Unmodified	1286800	1094000	814250	0	0	0	0	0	0
LALQTIPEDLDLRDDSLLK	PAPOLA; PAPOLB;	P51003; Q9NRJ5;	PAPOA	HUM	Unmodified	3099500	0	2456700	0	0	0	0	0	0
LALSQAHSLVQAEAPR	TIMM29; TIMM29	Q9BSF4; K7ENF5	TIM29	HUM	Unmodified	1671600	2596800	2284400	160020	152080	0	0	0	0
LALSSDKIAALR	COMMD8	Q9NX08	COMD8	HUM	Unmodified	273270	213270	279320	0	0	0	0	0	0
LALTDILEQEQCFYR	TAF2	Q6P1X5	TAF2	HUM	Unmodified	165320	92579	139340	0	0	0	0	0	0
LALTMDLAPLLLAAR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082	HUM	Oxidation (M)	21930000	10489000	17149000	0	0	0	0	0	0
LALVNNLQIVDSK	RELCH; RELCH	Q9P260; A0A2R8	RELCH	HUM	Unmodified	2644700	2612700	2477700	40478	0	27267	0	0	0
LALVTGGEIASTFDHPELVK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Unmodified	4717600	2024700	3255800	12716	0	0	18672	0	13866
LAMAIPDKWIQLLK	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Oxidation (M)	0	532610	1958200	0	0	0	0	0	0
LAMENNIK	DBT; DBT; DBT	P11182; A0A7P0	ODB2	HUM	Oxidation (M);Dea	903860	940380	1070300	0	0	28099	12108	0	0
LAMLEEDLLALK	HIBCH; HIBCH	Q6NVY1; F8W8A	HIBCH	HUM	Oxidation (M)	547550	0	496360	0	0	0	0	0	0
LAMQEFMILPVGAANFR	ENO1; ENO1; ENO1	P06733; K7EM90	ENOA	HUM	2 Oxidation (M)	160160000	174780000	115660000	97703	0	79466	45983	0	0
LAMQEFMILPVGAANFR	ENO1; ENO1; ENO1	P06733; K7EM90	ENOA	HUM	2 Oxidation (M);De	32528000	32780000	19784000	0	0	14804	0	0	0
LAMQEFMILPVGAANFREAMR	ENO1; ENO1; ENO1	P06733; K7EM90	ENOA	HUM	3 Oxidation (M);De	9663700	0	0	0	0	0	0	0	0
LAMQEFMILPVGAESFR	ENO2	P09104	ENOG	HUM	2 Oxidation (M)	10481000	14493000	12149000	0	0	9203.4	0	0	0
LAMQEFMILPVGASSFK	ENO3; ENO3; ENO3	P13929; K7EKN2	ENOB	HUM	2 Oxidation (M)	1189900	984150	1122100	0	18587	18780	25246	22033	0
LAMQNELESRK	N/A	N/A	N/A		Oxidation (M);2 M	1139000	792920	790770	0	0	0	0	0	0
LANELPDWFQTAK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	166050	153010	134270	0	0	0	0	0	0
LANGLGREEAVAEGAR	IRF2BP1	Q8IU81	I2BP1	HUMA	Deamidation (N)	1699100	1586600	1591100	0	0	0	0	0	0
LANIDEEMLQK	RARS1	P54136	SYRC	HUMA	Oxidation (M)	2424100	2215000	2284500	0	0	67553	0	0	0
LANLINAEER	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	0	1008900	1086300	0	0	0	0	0	0
LANLINAEERR	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	1186000	728030	743610	0	0	0	0	0	0
LANLPEEVIQK	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	9304800	9499600	8162500	51694	47154	71215	0	0	0
LANLPEEVIQKGHR	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	2536500	6096600	1727900	0	0	63891	0	0	0
LANLPEEVIQKGHRK	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	3278000	1985500	3496200	0	31576	0	0	0	0
LANPLHFYEAR	NID2; NID2	Q14112; A0A087	NID2	HUMA	Unmodified	0	0	226960	77241	0	62967	0	0	0
LANRAPEPTPQQVAQQQ	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM	Unmodified	6147300	4772100	5370000	170270	171320	0	0	0	0
LANRAPEPTPQQVAQQQ	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM	Deamidation (N)	2574100	2470200	2628300	83418	69153	242610	0	10541	0
LANVMMGPYR	VCL	P18206	VINC	HUM	2 Oxidation (M)	845810	0	848620	45199	53672	43842	0	0	0
LANVMMGPYRQDLLAK	VCL	P18206	VINC	HUM	2 Oxidation (M)	1461400	1255100	1176400	106290	92711	72307	52627	0	0
LAPAQYIR	SNW1; SNW1; SNW	Q13573; G3V4X8	SNW1	HUM	Unmodified	588080	1098900	0	0	123890	0	0	0	0
LAPASNMTSQRPVSSTGINFDNPSVQK	NCOA5	Q9HCD5	NCOA5	HUM	Oxidation (M)	1810500	1477000	0	0	0	0	0	0	0
LAPASNMTSQRPVSSTGINFDNPSVQK	NCOA5	Q9HCD5	NCOA5	HUM	Oxidation (M);Dea	1408500	1144500	1264000	0	0	0	0	0	0
LAPDYDALDVANK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Unmodified	23116000	24574000	26566000	1427400	1295800	1344900	36552	31621	33346
LAPDYDALDVANK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Deamidation (N)	1363100	918620	1211600	65882	98251	69171	0	0	0
LAPDYDALDVANKIGII	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Deamidation (N)	4292300	4549300	3714500	0	0	0	18822	0	0
LAPDYDALDVANKIGII	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Unmodified	6936600	4582200	6331300	0	0	0	26119	0	0
LAPDYDALDVANKIGII	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Methyl (KR)	1580300	1396000	1987300	0	0	0	0	0	0
LAPEEAGGAGTPVITEIFSLGGTR	MBD1; MBD1; MBD	Q9UIS9; K7EPZ6;	MBD1	HUM	Unmodified	669320	378380	528650	0	0	0	0	0	0
LAPEYEAAATR	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3	HUM	Unmodified	121430000	103820000	83218000	5544300	6440700	8501000	290000	291330	246890
LAPEYEAAATRLK	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3	HUM	Unmodified	1867200	3005100	1419100	1257800	1342300	1453800	168650	154250	149780
LAPEYEK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAPGTIVEVWKDSAYPEELSR	HEXB; HEXB; HEXE	P07686; H0YA83;	HEXB	HUM	Unmodified	865120	641450	0	0	0	0	0	0	0
LAPITSDPTEATAVGAVEASFK	PKM; PKM	P14618; B4DNK4	KPYM	HUM	Unmodified	47589000	24628000	28564000	0	0	0	93915	51301	63128
LAPQNGGSSDAPAYR	TOR1AIP1; TOR1AI	Q5JTV8; J3KN66	TOIP1	HUM	Deamidation (N)	195140	0	521360	187500	152880	220700	0	0	0
LAPSEYR	ERP44	Q9BS26	ERP44	HUM	Unmodified	25292000	18336000	23958000	4175900	4401000	4292600	79642	83262	72553
LAQAAQSSVATITR	TLN1	Q9Y490	TLN1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAQAEEQLEQETR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Unmodified	2294800	1639700	2115700	0	0	0	0	0	0
LAQAEEQLEQETRER	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Unmodified	993560	1091400	1242200	0	0	0	0	0	0
LAQAHGFQGFLR	SPTBN2	O15020	SPTN2	HUM	Unmodified	788930	706610	1234800	94744	8376.6	45683	0	0	0
LAQALHEMR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Oxidation (M)	1375800	1673700	1988000	0	0	0	0	0	0
LAQALHEMREQHDAQVR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Oxidation (M)	11951000	12102000	8141400	0	0	0	0	0	0
LAQANGWGVMVSHR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	2 Oxidation (M);Dea	103300000	104830000	95444000	615680	578180	622660	27978	38939	45228
LAQATQER	SMC3	Q9UQE7	SMC3	HUM	Unmodified	3447600	4172900	3822100	307990	379200	294040	0	0	0
LAQATQERTDLYAK	SMC3	Q9UQE7	SMC3	HUM	Unmodified	7947200	7378900	10085000	396260	396340	362270	0	0	0
LAQDAEVELER	MGAT1; MGAT1; M	P26572; D6RA48;	MGAT1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LAQDGAHVVVSSR	DHRS4; DHRS4	Q9BTZ2; F5GWZ	DHRS4	HUM	Unmodified	499330	674710	707000	18808	17121	0	22902	20210	31902
LAQDPYR	SON	P18583	SON	HUMAN	Unmodified	11077000	8794400	11024000	74935	384800	75492	0	0	9633.3
LAQDPYRLAQDPYR	SON	P18583	SON	HUMAN	Unmodified	2394700	1209900	753210	88371	0	0	0	0	0
LAQEEAPGPAPLVSAVPMATPAPAAR	CAMSAP3	Q9P1Y5	CAMP3	HUM	Oxidation (M)	2694400	0	1811300	160070	168610	147720	0	0	0
LAQEEESEAKR	PES1; PES1; PES1; P	O00541; B3KXD6	PESC	HUMA	Unmodified	679980	505110	690960	0	0	0	0	0	0
LAQEGIYTLYPFINSR	NSUN2	Q08J23	NSUN2	HUM	Deamidation (N)	2123000	2206600	2100300	0	0	0	0	0	0
LAQEGIYTLYPFINSR	NSUN2	Q08J23	NSUN2	HUM	Unmodified	1571400	1043700	821710	0	0	0	0	0	0
LAQENGWGVMVSHR	ENO2; ENO2	P09104; F5H0C8	ENOG	HUM	2 Oxidation (M);Dea	3640300	4525800	4772200	0	0	0	0	0	0
LAQENMDLFKEQWEK	CTNNA1; CTNNA1;	P35221; E5RGD2;	CTNA1	HUM	Oxidation (M)	2303700	2342900	2087600	89220	83789	71528	13933	0	0
LAQENMDLFKEQWEK	CTNNA1; CTNNA1;	P35221; E5RGD2;	CTNA1	HUM	Oxidation (M);Dea	2177100	2223400	1207100	36120	83072	66151	0	0	0
LAQFDYGR	ATAD3A; ATAD3C;	Q9NVI7; Q5T2N8	ATD3A	HUM	Unmodified	592900	650370	0	45715	0	0	0	0	0
LAQFEPSQR	DHX9	Q08211	DHX9	HUM	Unmodified	23065000	26542000	25445000	1144600	932880	1424600	0	0	0
LAQFIGNR	NOP56; NOP56; NOP	O00567; Q5JXT2;	NOP56	HUM	Unmodified	1102100	884680	1142100	0	0	0	0	0	0
LAQFVAR	CHERP; CHERP	Q8IWX8; J3QKB9	CHERP	HUM	Unmodified	626800	440570	429670	0	0	0	0	0	0
LAQGHTTVDELAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	7230200	7406300	6938300	1161600	744410	712460	0	48919	0
LAQHITYVHQHSR	MCM7	P33993	MCM7	HUM	Unmodified	6215700	4867400	5984600	0	0	0	0	0	0
LAQILAAR	OTUD6B; OTUD6B	Q8N6M0; A0A087	OTU6B	HUM	Unmodified	1155200	1176500	877810	14927	12722	12742	0	0	0
LAQIQQAK	STAU1; STAU2; STA	O95793; Q9NUL3	STAU1	HUM	Unmodified	1009800	779600	867540	0	0	0	0	0	0
LAQKNPMYQK	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUMA	Oxidation (M)	5798600	6067400	6095900	413260	362530	212340	0	0	7698.9
LAQLEEAK	ATP5PB; ATP5PB	P24539; Q5QNZ2	ATP5B	HUM	Unmodified	3453000	3394400	3102000	0	0	0	0	0	0
LAQMISDHNDADFEEK	UBAP2L; UBAP2L; I	Q14157; Q5VU80	UBP2L	HUM	Oxidation (M);Dea	844710	1009500	919820	0	39495	0	0	0	0
LAQMSICSSLAR	BPNT1; BPNT1; BPN	O95861; F8VVW8	BPNT1	HUM	Oxidation (M)	928340	735870	587190	0	44401	51143	0	54759	28091
LAQQEKQEQVK	IMMT; IMMT; IMM1	Q16891; A0A087	MIC60	HUM	Unmodified	735370	177480	0	0	0	0	0	0	0
LAQQEKQEQVKIESLAK	IMMT; IMMT; IMM1	Q16891; A0A087	MIC60	HUM	Unmodified	8277700	7391500	6576000	147930	131190	72716	0	0	0
LAQQEKQEQVKIESLAK	IMMT; IMMT; IMM1	Q16891; A0A087	MIC60	HUM	Methyl (KR)	1260300	1328400	792120	0	0	0	0	0	0
LAQQELQK	PHF8; PHF8	Q9UPP1; H0Y3N9	PHF8	HUM	Unmodified	938510	750670	783230	29469	0	21393	0	0	0
LAQQGNLLEK	AP4E1; AP4E1; AP4	Q9UPM8; H0YL9	AP4E1	HUM	Unmodified	1098000	0	0	0	0	0	0	0	0
LAQQGSDLIVPAGGQR	ARFIP1	P53367	ARFP1	HUM	Unmodified	0	0	0	1351900	1150000	1179100	259110	213240	170150
LAQQISDEASR	USP9X	Q93008	USP9X	HUM	Unmodified	1172500	1275400	1128700	0	32839	24416	0	0	0
LAQQLTMER	FAM114A1	Q8IWE2	NXP20	HUM	Oxidation (M)	666640	1031100	622810	100360	0	100940	0	0	0
LAQQMENRPSVQAALK	CHTOP; CHTOP; CH	Q9Y3Y2; X6R700	CHTOP	HUM	Oxidation (M)	1982400	2236000	1857800	0	0	0	0	0	0
LAQQQAALLMQQEER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Oxidation (M)	1932400	2006300	3074100	253800	0	0	0	0	0
LAQQYYLVVQEPIPTAQLVQR	PSMA2; N/A; N/A; P	P25787; A0A7I2V	PSA2	HUMA	Unmodified	2767500	1708500	2108800	0	0	0	0	0	0
LAQSDMAKR	NUP98; NUP98	P52948; H7C3P6	NUP98	HUM	Oxidation (M);2 M	0	0	0	24432	36910	20859	0	0	0
LAQSNGWGVMVSHR	ENO3	P13929	ENOB	HUM	2 Oxidation (M);Dea	9023300	13143000	12007000	88116	77211	0	0	0	16699
LAQVIFDKNDSDFEAK	UBAP2; UBAP2; UB	Q5T6F2; A2A305	UBAP2	HUM	Unmodified	888270	2025100	0	0	0	0	0	0	0
LAQVIFDKNDSDFEAK	UBAP2; UBAP2; UB	Q5T6F2; A2A305	UBAP2	HUM	Deamidation (N)	876990	916780	417220	0	0	0	0	0	0
LAQYEPPQEEK	MYCBP; N/A	Q99417; A0A087	MYCBP	HUM	Unmodified	1363800	1289700	1228000	0	0	56030	0	0	0
LAQYEPPQEEKRAE	MYCBP; N/A	Q99417; A0A087	MYCBP	HUM	Unmodified	3673300	4503000	4782900	409200	454410	434620	37246	0	0
LAQYEPPQEEKRAE	MYCBP; N/A	Q99417; A0A087	MYCBP	HUM	Methyl (KR)	644050	656010	712330	61060	65994	54304	0	0	0
LAQYESK	EEF1B2	P24534	EF1B	HUMA	Unmodified	13265000	15657000	5269200	310110	362590	420550	0	0	0
LAQYESKK	EEF1B2	P24534	EF1B	HUMA	Unmodified	419650	330660	560510	32804	29320	33810	0	0	0
LASAEMQGSELQVTMHDTR	BCAM; BCAM	P50895; A0A087	BCAM	HUM	2 Oxidation (M)	7732500	6830500	5706200	1634700	1466800	1822900	120800	132000	149780
LASAEMQGSELQVTMHDTRGR	BCAM; BCAM	P50895; A0A087	BCAM	HUM	2 Oxidation (M)	0	553440	0	925780	0	1085500	0	0	0
LASAGVDTNVR	CHAF1B	Q13112	CAF1B	HUM	Unmodified	436300	555620	712710	0	0	0	0	0	0
LASALAPSIYEHEDIKK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4	HUM	Unmodified	1225000	0	943660	0	0	0	0	0	0
LASDAGIFFTR	SH3GLB2; SH3GLB2	Q9NR46; G5E9J1	SHLB2	HUM	Unmodified	3503800	2093500	2305800	280820	338900	355760	0	0	0
LASDLLEWIR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	1847700	1519300	1629800	0	0	0	0	0	0
LASDLLEWIRR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	1557100	908260	1298800	0	0	0	0	0	0
LASEAKPAAVAAENEEIGSHIK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	3783200	2143900	2050700	0	0	0	0	0	0
LASEYLTPEEMVTFKK	SART1	O43290	SNUT1	HUM	Oxidation (M)	1651500	1371700	2096400	64722	32084	0	0	0	50480
LASFYER	ATP6V1A	P38606	VATA	HUM	Unmodified	7920200	7224800	8562500	233760	235130	191710	0	0	0
LASGEHIAAFCLTEPASGSDAASIR	ACAD9; ACAD9; AC	Q9H845; A0A7P0	ACAD9	HUM	Unmodified	2896500	825120	2864800	24568	16795	0	0	0	0

LASGETVAAFCLTEPSSGSDAASIR	ACADVL	P49748	ACADV_HUM	Unmodified	0	1010000	1067500	0	0	0	0	0	0
LASLEELKR	DSP	P15924	DESP_HUMA	Unmodified	1256400	1214500	1290100	59466	0	83155	0	0	0
LASLFSSLEPQIQPVYVPVPK	RBM34; RBM34; RB	P42696; A2A2V2;	RBM34_HUM	Unmodified	643810	585040	587930	0	0	0	0	0	0
LASMATLLAR	NSUN5	Q96P11	NSUN5_HUM	Oxidation (M)	397300	265930	253510	0	0	0	0	0	0
LASPSEETWITCDNKIR	CD163; CD163; CD1	Q86VB7; C9JHR8;	C163A_HUM	Unmodified	213190	163420	388840	0	0	0	0	0	0
LASPSGSTSSGLEVVAPEGTSAPGGGPGTLDDSATICR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Unmodified	4026200	4497000	5443500	0	0	0	0	0	0
LASQGDSISSQLGPIHPPPR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	6018400	3189600	6979600	443820	255190	234850	45636	0	39588
LASTLVHLGEYQAAVDGAR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1_HUMA	Unmodified	33093000	33402000	37426000	383590	240040	128470	100870	77681	38574
LASTNSSVLGADLPSSMKEK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF_HUMA	Oxidation (M);Deam	0	2560600	0	209830	0	0	41777	0	0
LASVLGSEPSLDSEVTSK	DPP3; DPP3; DPP3; I	Q9NY33; G3V1D2	DPP3_HUMA	Unmodified	6148100	2779100	2060200	0	0	0	0	0	0
LASVLGSEPSLDSEVTSKLK	DPP3; DPP3; DPP3; I	Q9NY33; G3V1D2	DPP3_HUMA	Unmodified	0	3103300	2045900	0	0	0	0	0	0
LASVPAGGAVAVSAAPGSAAPAAGSAPAAAEEK	RPLP2; RPLP2	P05387; H0YDD8	RLA2_HUMA	Unmodified	8219400	8243500	9830200	74645	0	0	0	0	0
LASVPAGGAVAVSAAPGSAAPAAGSAPAAAEEKKDEK	RPLP2; RPLP2	P05387; H0YDD8	RLA2_HUMA	Methyl (KR)	1398700	1456900	1410500	0	0	0	0	0	0
LASVPAGGAVAVSAAPGSAAPAAGSAPAAAEEKKDEK	RPLP2; RPLP2	P05387; H0YDD8	RLA2_HUMA	Unmodified	6562300	5065000	8215800	0	0	0	0	0	0
LASVPEYR	FOXK1	P85037	FOXK1_HUM	Unmodified	11339000	11622000	8325800	433840	0	235690	0	110700	0
LASVSADAEVAR	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	2331400	1782900	1731700	0	73417	236470	21922	0	0
LASYLDR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	13454000	14625000	14006000	311960	641530	768170	12989	16655	20996
LATAMQEGEYDAER	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1_HUM	Unmodified	449930	339220	325280	80000	73015	42863	0	0	0
LATCSSDR	SEC13; SEC13; SEC1	P55735; A8MXL6	SEC13_HUM	Unmodified	0	221770	0	93522	133460	0	0	0	0
LATLETEAAQHQAVVDGLTR	PPP1R21	Q6ZMI0	PPR21_HUM	Unmodified	1171700	1088500	757980	21288	21010	0	0	0	0
LATLLGLQAPPTR	EIF3A	Q14152	EIF3A_HUM	Unmodified	4992100	4202800	4199600	28096	18938	41789	0	0	0
LATLNEKLTALER	BRK1	Q8WUW1	BRK1_HUMA	Unmodified	3134600	2692200	1711300	16694	12273	0	0	0	0
LATLNEKLTALER	BRK1	Q8WUW1	BRK1_HUMA	Deamidation (N)	715400	528050	939900	0	0	0	0	0	0
LATNAAVTVLR	CCT8; CCT8	P50990; H7C2U0	TCPQ_HUMA	Unmodified	0	958950	533210	0	0	0	9705.8	0	0
LATNTSAPDLK	MAP4; MAP4; MAP4	P27816; H7C4C5;	MAP4_HUM	Unmodified	772100	648440	774670	141290	165540	156410	0	0	0
LATNTSAPDLKNVR	MAP4; MAP4; MAP4	P27816; H7C4C5;	MAP4_HUM	Deamidation (N)	500830	615510	0	424140	374900	656530	20784	0	106820
LATNTSAPDLKNVR	MAP4; MAP4; MAP4	P27816; H7C4C5;	MAP4_HUM	Unmodified	919640	1132200	296950	603940	603980	548540	154670	179110	159430
LATPTYGDLNHLVSATMSGVTTSLR	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Oxidation (M)	1532100	1405900	2186000	0	0	0	0	0	0
LATQLTGPVMPVR	RPL13	P26373	RL13_HUMA	Oxidation (M)	13495000	12760000	10366000	505360	328220	283830	0	0	0
LATQSNEITIPVTFESR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	25467000	24569000	0	10594000	8952600	6414600	69903	3281300	4423500
LATQSNEITIPVTFESR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Deamidation (N)	28847000	23211000	31671000	3874700	2858000	1699600	1893800	1601600	1730000
LATQSNEITIPVTFESRAQLGGPEAAKSDETAAK	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	0	0	0	156120	0	0	4145900	257820	0
LATQSNEITIPVTFESRAQLGGPEAAKSDETAAK	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Deamidation (N)	1344000	925040	0	0	0	0	1020300	75493	0
LATTSASR	IPO7	E9PLJ0	E9PLJ0_HUM	Unmodified	4950700	3180200	938220	232600	21379	295160	37949	0	21880
LATVEER	SMARCB1; SMARCI	Q12824; G5E975;	SNF5_HUMA	Unmodified	400780	3827500	3225100	0	0	0	0	0	0
LATVHMSR	CLPTM1; CLPTM1	O96005; K7EQQ1	CLPT1_HUM	Oxidation (M)	137690	1654700	147940	0	0	24662	0	0	0
LATVMLTR	NBAS; NBAS; NBAS	A2RRP1; H0Y5G7	NBAS_HUMA	Oxidation (M)	245940	0	0	0	28374	0	0	0	0
LATVNWAR	ZFPL1; ZFPL1; ZFPL	O95159; E9PNY1	ZFPL1_HUM	Unmodified	1694400	1820700	1306200	26673	41134	62241	0	0	0
LATVPAEPPAGLLTEPLPAMEQQTVFR	ATG2A; ATG2A	Q2TAZ0; H7C3T2	ATG2A_HUM	Oxidation (M)	809360	542170	601750	0	0	0	0	0	0
LATVVNDER	XAB2	Q9HCS7	SYF1_HUMA	Unmodified	403340	340460	392810	0	0	0	0	0	0
LATVVNDERFVSK	XAB2	Q9HCS7	SYF1_HUMA	Unmodified	679690	0	596350	0	0	0	0	0	0
LAVAGEDAR	CORO7; CORO7-PAI	P57737; A0A0A6	CORO7_HUM	Unmodified	971510	1407400	0	0	0	0	0	0	0
LAVDALAEGGSEAYSR	FAM83H; FAM83H	Q6ZRV2; A0A494	FA83H_HUM	Unmodified	640540	0	482940	0	34684	0	0	0	0
LAVDTFPAR	CBX8	Q9HC52	CBX8_HUMA	Unmodified	0	0	1214000	0	0	0	0	0	0
LAVEALSSLDGDLAGR	CKB; CKB	P12277; G3V4N7	KCRB_HUM	Unmodified	14496000	3361400	9990100	0	0	0	0	0	0
LAVEALSSLDGDLAGRYYALK	CKB; CKB	P12277; G3V4N7	KCRB_HUM	Unmodified	6603900	830340	3836900	0	0	0	0	0	0
LAVEAVLR	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Unmodified	528830	595380	519740	0	14841	14176	22232	23250	0
LAVEILNK	EIF2AK2; EIF2AK2;	P19525; A0A7P0	E2AK2_HUM	Unmodified	1693500	1286600	1701000	0	0	0	0	0	0
LAVGNGLRPAIWEEFTER	SLC27A1	Q6PCB7	S27A1_HUM	Deamidation (N)	1006500	564780	956980	0	0	0	0	0	0
LAVIQEAR	FOXK2	Q01167	FOXK2_HUM	Unmodified	1842900	2088700	1941200	144760	117240	134090	0	18456	13436
LAVLSSSLTHWK	LAMTOR1; LAMTOI	Q6IAA8; F5GX19	LTOR1_HUM	Unmodified	835400	440030	394330	0	0	0	0	0	0
LAVQKYEELFPAFSDSR	NAPA; NAPA; NAPA	P54920; M0R2M1	SNAA_HUM	Unmodified	458850	319970	375760	0	0	0	0	0	0
LAVQQVEEAQQLREHQEALHQQR	GOLIM4; GOLIM4	O00461; F8W785	GOLI4_HUM	Unmodified	1669100	4165200	1473800	0	0	0	0	0	0
LAVTRLEGVDEATR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO_HUM	Unmodified	2338300	2000100	0	0	0	0	0	0	0
LAVYIDKVR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Unmodified	1690800	1418100	1122100	0	0	0	0	0	0
LAVYIDR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	3183600	3285800	6151200	526340	201870	241050	0	0	0
LAVYQAGAR	APOE; APOE; APOE	P02649; H0Y7L5;	APOE_HUMA	Unmodified	1382900	1957800	1101800	30617	0	0	0	0	0
LAWEQQEPGER	BOP1	Q14137	BOP1_HUMA	Unmodified	934460	1451400	0	0	0	0	0	0	0
LAWGQPVGLR	QARS1; QARS1; QA	P47897; H7C0R3;	SYQ_HUMAN	Unmodified	2298200	1679600	2018700	91269	59425	65343	13546	0	0
LAWVGIDVTATPAEPRPLTSPLR	PRRC2A	P48634	PRC2A_HUM	Unmodified	0	3141400	5019800	0	0	0	0	0	0
LAWVSHDSTVSVADASK	ARPC1A; ARPC1A;	Q92747; E9PF58;	ARC1A_HUM	Unmodified	1012800	1016200	1102100	41766	45697	45644	0	0	0
LAYINPDLALEEK	STIP1	P31948	STIP1_HUMA	Unmodified	10533000	10277000	9863100	213320	213280	190940	0	18224	0
LAYLQILSEETSVK	EIF2AK2; EIF2AK2;	P19525; A0A7P0	E2AK2_HUM	Unmodified	503340	0	0	0	0	0	0	0	0
LAYQELQIDR	ARFGAP2; ARFGAP	Q8N6H7; E9PIY6	ARFG2_HUM	Unmodified	1659500	1593800	1941200	98672	86636	95248	0	0	0
LAYVAPTIPR	PPP1R12A; PPP1R12	O14974; F8VZN8	MYPT1_HUM	Unmodified	4565700	6705800	5288100	242220	403210	448390	245320	152220	0
LCDFGLAR	MAPK15; MAPK15	Q8TD08; A0A1C7	MK15_HUMA	Unmodified	941960	1207900	1257300	115940	92018	169140	14939	16659	15602
LCDSYEIRPGK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	1059900	1269700	1046700	0	0	0	0	0	0
LCEAICPAQAITIEAEPR	NDUFS8; NDUFS8; N	O00217; E9PKH6	NDUS8_HUM	Unmodified	0	0	882810	0	0	0	20405	0	0
LCFEGLR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	0	0	806790	24260	36153	0	0	0	0
LCFSTAQHAS	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL_HUM	Unmodified	8888300	8003600	9379700	940250	727410	579190	108350	45377	51981
LCGSSASFFKLLQISKK	CENATAC	E9PPT8	E9PPT8_HUM	Methyl (KR)	969440	513450	1177800	0	0	0	0	0	0
LCLQQGQLCEPLPSLAESR	NAPRT; NAPRT	Q6XQN6; G5E977	PNCB_HUMA	Unmodified	1720900	533990	703120	0	0	0	0	0	0
LCSAHGVLVPGGFGVR	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1_HUM	Unmodified	316870	0	0	0	0	0	0	0	0
LCSGVLGTVVHGK	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2_HUM	Unmodified	622350	1412300	1279400	0	0	0	0	0	0
LCTSATESEVAR	UQCRC1	P31930	QCR1_HUMA	Unmodified	3779900	3165600	3252400	159230	0	63340	0	0	0
LCTSVTESEVAR	PMPCB; PMPCB	O75439; G3V0E4	MPPB_HUM	Unmodified	1172200	935450	733430	132830	67975	188300	0	0	0
LCYVALDFEQEMATAASSSSLEK	POTEE; ACTG1; AC	Q6S8J3; P63261;	POTEE_HUM	Oxidation (M)	4379900	4072100	4447200	0	0	0	40252	0	0
LCYYIGATDDAATK	MANF	P55145	MANF_HUM	Unmodified	682310	399040	819290	0	0	0	0	0	0
LDAAGFWQVWQR	SCGN; SCGN	O76038; Q96P10	SEGN_HUMA	Unmodified	124670	753370	756600	0	0	0	0	0	0
LDADKYENDPELEK	ADI1	Q9BV57	MTND_HUM	Unmodified	1074600	946230	1030700	0	0	0	0	0	0
LDADYPLR	DENR; DENR	O43583; F8VVL1	DENR_HUM	Unmodified	3166100	2638900	2261400	104170	40012	0	0	0	0
LDAEEVAR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO_HUM	Unmodified	1029000	1503800	1581900	49747	0	0	0	0	0
LDAENAIVHMGGQWLGGR	TIAL1; TIAL1	Q01085; E7ETJ9	TIAR_HUMA	Oxidation (M)	609210	545120	717850	0	0	0	0	0	0
LDAEPRPPPTQEAA	FARSA; FARSA	Q9Y285; K7ER00	SYFA_HUMA	Unmodified	2090800	2132200	1975200	264100	132900	0	0	0	0
LDAPVDYFYRPETQHR	GTF3C5; GTF3C5; G	Q9Y5Q8; Q5T7U4	TF3C5_HUM	Unmodified	2862200	2160000	2987300	53531	41395	54274	0	0	0
LDASESLR	CLTC; CLTC; CLTC	Q00610; K7EJJ5;	CLH1_HUMA	Unmodified	3651500	1362000	3704800	845200	237830	171330	0	0	0
LDDCGLTEAR	RNH1; RNH1; RNH1	P13489; E9PIK5;	RINI_HUMAN	Unmodified	688290	761090	613480	129300	117670	115950	0	0	0
LDDHALTGASDSR	TBL3; TBL3	Q12788; J3KNP2	TBL3_HUMA	Unmodified	1295200	1434100	1330900	0	0	0	0	0	0
LDDIFEPVLIPEPK	CKAP5; CKAP5; CK	Q14008; H0YEK7	CKAP5_HUM	Unmodified	1071000	986450	944640	0	0	0	0	0	0
LDDLALLEDLEK	PRPF4B	Q13523	PRP4B_HUM	Unmodified	299640	0	303010	0	0	0	0	0	0
LDDLFLK	LRPPRC	P42704	LPPRC_HUM	Unmodified	0	1954100	0	0	0	0	0	0	0
LDDLVNWAR	NDUFS7; NDUFS7; N	O75251; F5H5N1	NDUS7_HUM	Unmodified	1143500	0	728750	0	0	0	0	0	0
LDDMSSIVQK	NXF1; NXF1; NXF1	Q9UBU9; E9PIN3	NXF1_HUMA	Unmodified	19317000	20816000	0	2652800	3069400	3106000	0	0	0
LDDMSSIVQK	NXF1; NXF1; NXF1	Q9UBU9; E9PIN3	NXF1_HUMA	Oxidation (M)	1251700	967750	1072400	0	0	0	0	0	0
LDDMSSIVQKAPNLK	NXF1; NXF1; NXF1	Q9UBU9; E9PIN3	NXF1_HUMA	Oxidation (M)	458270	321170	418480	21471	0	0	0	0	0
LDDSFVR	DNAJC7; DNAJC7; D	Q99615; A0A6B9	DNJC7_HUM	Unmodified	2001400	2655200	2896700	94832	0	59264	0	0	0
LDEEALLK	SART1	O43290	SNUT1_HUM	Unmodified	398650	355530	363260	25841	40392	46099	0	0	0
LDELQASDVSVK	TPR	P12270	TPR_HUMAN	Unmodified	1026400	818780	0	0	0	0	0	0	0
LDENKGGTESLDP	CHAF1B	Q13112	CAF1B_HUM	Unmodified	589420	0	750440	0	0	0	0	0	0
LDEREAGITEK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMAN	Unmodified	6219300	6288100	5725800	0	0	52299	0	0	0
LDEREAGITEKVVFEQTK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMAN	Unmodified	2960700	1658200	2005100	0	0	0	0	0	0
LDEYIAIAK	RCOR3; RCOR1; RC	Q9P2K3; Q9UKL0	RCOR3_HUM	Unmodified	787910	0	852150	0	0	0	0	0	0
LDFEGPDAK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	420540	404520	425380	0	0	0
LDFNLIR	ATIC; ATIC	P31939; C9JLK0	PUR9_HUMA	Unmodified	4743100	4201900	5295000	0	40970	0	0	0	0
LDFYQHSWLPAR	MYG1; MYG1; MYG	Q9HB07; F8VQQ2	MYG1_HUM	Unmodified	611640	558560	741660	0	0	0	0	0	0
LDGLQQR	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	677610	662630	623560	65249	138320	70585	0	0	0
LDGLVETPTGYIESLPR	NAP1L1; NAP1L1; N	P55209; F8VUX1	NP1L1_HUM	Unmodified	14428000	14780000	15603000	0	0	0	17741	0	0
LDGNQDLIR	IDH2	P48735	IDHP_HUMA	Unmodified	1101700	840080	821910	0	31870	0	0	0	0
LDGNYLKPPIPLDLMMCFR	PRELP	P51888	PRELP_HUM	2 Oxidation (M)	396940	181610	213950	0	0	0	0	0	0
LDHKFDLMYAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M)	60474000	58693000	56098000	1132500	1055000	1166100	46693	0	51231
LDHKFDLMYAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
LDHKFDLMYAKR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Oxidation (M)	21750000	34090000	48259000	729570	521400	720990	113280	41269	34945
LDHTLQSPWEIAAQWVVPR	FAM20B; FAM20B	O75063; X6RH03	XYLK_HUM	Unmodified	142040	0	79841	0	0	0	0	0	0
LDIDPETITWQR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	14757000	10342000	14018000	21287	23710	21477	0	0	0
LDIDSPPITAR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Unmodified	8708500	9572900	11040000	1221000	1221800	1143700	193490	56021	0
LDIDSPPITARNTGIICTIGPASR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
LDIISEDISELQK	NUP54	Q7Z3B4	NUP54_HUM	Unmodified	198540	142770	213560	0	0	0	0	0	0
LDILDQER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	569710	667560	837250	28302	41391	0	0	0	0
LDIPSAVPLTAEEPSFLQPLRR	RHBDF1; RHBDF1;	Q96CC6; F8WCF	RHDF1_HUM	Unmodified	619090	619410	480020	0	0	0	0	0	0
LDITTLTGVPEEHIK	NDUFS4; NDUFS4	O43181; H0Y9M8	NDUS4_HUM	Unmodified	7546300	5686700	0	0	0	0	0	0	0
LDKDIVALMTR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B_HUM	Oxidation (M)	1039200	1292800	1322300	0	0	0	0	0	0
LDKESVPVFYLFR	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Unmodified	2016000	2096500	2543200	0	0	0	0	0	0
LDKSQIHDIVLVGGSTR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	6402000	4846400	6518100	0	0	0	0	0	0
LDLAGRDLTDYLMK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUMA	Oxidation (M)	297060000	247960000	348900000	73433	34702	77667	72232	0	36567
LDLAGRDLTDYLMKILTER	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUMA	Oxidation (M)	20951000	248230	732010	0	0	0	0	0	0
LDLAGRDLTDYLMKILTERGYSFTTTAER	ACTG1; ACTB; ACT	P63261; P60709;	ACTG_HUMA	Oxidation (M)	1717200	0	99239	0	0	0	0	0	0
LDLDLTADSQPPVFK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Unmodified	1883100	1952800	3406200	20588	12369	0	0	0	0
LDLGEDYPSGK	DHX15	O43143	DHX15_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LDLIAQQMMPEVR	ATP6V1E1	P36543	VATE1_HUM	2 Oxidation (M)	4499700	3867400	1438300	49828	131680	100610	0	0	0
LDLLEDR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	15449000	14014000	16640000	80475	57506	48885	0	0	0
LDLLGNLPGSK	MKI67	P46013	KI67_HUMAN	Unmodified	1518300	1580100	1560700	0	0	0	31276	19986	19979
LDLLGNLPGSKR	MKI67	P46013	KI67_HUMAN	Unmodified	365520	387270	573000	0	0	0	0	0	0

LDLPSGSK	NHLRC2	Q8NBF2	NHLC2_HUM	Unmodified	359660	263790	318890	0	0	0	0	0	0
LDLQQGQNLLQGLSK	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10_HUM	Unmodified	380940	413960	0	0	0	0	0	0	0
LDLSVRR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC_HUM	Unmodified	1289000	2162400	1264800	0	0	0	0	0	0
LDLTEKDYEILFK	GGH; GGH; GGH; GI	Q92820; A0A7I2V	GGH_HUMA	Unmodified	4470000	3729600	5420200	0	0	0	0	0	0
LDLTENLTGSK	MKI67	P46013	KI67_HUMA	Unmodified	1164300	1353900	922460	0	0	0	0	0	0
LDLTENLTGSKR	MKI67	P46013	KI67_HUMA	Unmodified	483020	380070	408420	0	0	0	0	0	0
LDLVMVILFK	NFIC; NFIX; NFIA; N	P08651; Q14938;	NFIC_HUMA	Oxidation (M)	36057	0	0	0	0	0	0	0	0
LDMPEVLWK	CRNKL1; CRNKL1	Q9BZJ0; Q5JY65	CRNL1_HUM	Oxidation (M)	567000	333500	852090	11272	6361	0	0	0	0
LDMSEFQER	CLPB; CLPB; CLPB	Q9H078; H0YGM	CLPB_HUMA	Oxidation (M)	505550	733520	634410	0	0	0	0	0	0
LDMYVLHPPSAGAER	MAP1S	Q66K74	MAP1S_HUM	Oxidation (M)	751340	1015900	608710	0	0	0	0	0	0
LDNIFLTR	ELAC2; ELAC2; EL/	Q9BQ52; V9GYU	RNZ2_HUMA	Unmodified	2071200	0	1419800	0	0	0	0	0	0
LDNVPHTPSSYIETLPK	NAP1L4; NAP1L4; N	Q99733; C9J6D1;	NP1L4_HUM	Unmodified	2991800	1357300	1105400	0	0	0	0	0	0
LDPAQSASRENLLEEQGSIALRQEQIDNQTR	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1121100	770700	0	0	0	0	0	0	0
LDPETLESLGLIK	THOC2; THOC2	Q8NI27; A0A0C4	THOC2_HUM	Unmodified	0	656100	669990	0	0	0	0	0	0
LDPFADGGK	SF3B1	O75533	SF3B1_HUM	Unmodified	1282800	1409200	1496200	0	46037	105630	0	0	0
LDPFADGGKTPDPK	SF3B1	O75533	SF3B1_HUM	Unmodified	1939600	1538700	1326600	0	71299	22491	0	0	0
LDPGSEETQTLVR	EEF1G	P26641	EF1G_HUMA	Unmodified	10347000	11052000	11245000	718990	554710	724910	0	0	0
LDPHLVLDQLR	MYH9; MYH10	P35579; P35580	MYH9_HUM	Unmodified	4105200	3276700	3570000	20305	14502	0	15567	10466	18180
LDPIQPSDVLSLLDNR	QSOX2	Q6ZRP7	QSOX2_HUM	Unmodified	248950	121550	191920	0	0	0	0	0	0
LDPSIFESLQK	RUVBL1; RUVBL1	Q9Y265; E7ETR0	RUVB1_HUM	Unmodified	2810200	2997400	2695200	49759	42328	38248	0	0	0
LDPTGTFEK	DECR1	Q16698	DECR_HUMA	Unmodified	1639300	0	849720	114750	112520	111630	0	0	0
LDPTGTFEKEMIGR	DECR1	Q16698	DECR_HUMA	Oxidation (M)	1560400	1732200	1430800	172790	190630	177420	22432	18421	15251
LDPVLYR	GLG1; GLG1	Q92896; H3BM42	GSLG1_HUM	Unmodified	342850	362170	408360	0	0	12436	0	0	0
LDQDKIEALSSK	TRAF2	Q12933	TRAF2_HUM	Unmodified	304360	429680	436410	0	0	0	0	0	0
LDQDLNEVK	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	360230	308490	360270	0	0	0	0	0	0
LDQEVAEVDKNIELLK	TSG101; TSG101	Q99816; F5H442	TS101_HUM	Unmodified	1076000	1599900	1144100	0	0	0	0	0	0
LDQLIYIPLPDEK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1908200	2035100	2071200	0	0	0	0	0	0
LDQLIYIPLPDEKSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1399200	1355300	2022300	0	0	0	0	0	0
LDQPMTEIVSR	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Oxidation (M)	2062300	2698100	1672900	0	0	0	0	0	0
LDQPVSAPPSPR	CCDC6	Q16204	CCDC6_HUM	Unmodified	677460	1220500	712190	129630	31838	0	0	174800	0
LDQQTLPLGGR	RBM10	P98175	RBM10_HUM	Unmodified	1388400	1728900	1811400	0	0	0	0	0	0
LDQRVPQIAFVITGGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	3515700	2669900	3277700	0	0	21173	0	59776	0
LDRDSLVHSSPHVALSHVDAR	PTGFRN	Q9P2B2	FPRP_HUMA	Unmodified	1933200	1502000	1007300	0	0	0	0	0	0
LDRETEELHHDRVTLEVGK	EDF1	O60869	EDF1_HUMA	Unmodified	1233600	2497700	2745900	0	49024	0	0	0	0
LDRLEETVQAK	CORO1A; CORO1A	P31146; H3BRY3	COR1A_HUM	Unmodified	844660	576080	748500	46608	0	0	0	0	0
LDSGDLLQQAQEIR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB_HUMA	Unmodified	233520	167810	340860	0	0	0	0	0	0
LDSGKELHINLIPNKQDR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A_HUM	Unmodified	1200500	1086800	1476200	0	0	0	0	0	0
LDSIVIQQGR	SMARCA1; SMARC/	P28370; O60264;	SMCA1_HUM	Unmodified	1428100	810250	2054500	0	0	0	0	0	0
LDSQKHIDFSLR	RPS9	P46781	RS9_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
LDSSAQFGYYFR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	4216800	3771100	4526000	0	0	0	0	0	0
LDSSAVLDTGK	LRPPRC	P42704	LPPRC_HUM	Unmodified	0	1626900	227510	0	0	0	0	0	0
LDSSETTMVK	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1_HUMA	Oxidation (M)	872880	1123900	1470500	0	0	0	0	13221	0
LDTEQLAQR	TLK2; TLK2; TLK2;	Q86UE8; J3KRK0	TLK2_HUMA	Unmodified	1094200	1656900	0	0	0	0	0	0	0
LDTHPAMVTVLEMGAAR	TRAP1; TRAP1	Q12931; I3L0K7	TRAP1_HUM	2 Oxidation (M)	2869600	1187200	2468300	0	0	0	0	0	0
LDTIFFAK	UCHL5; UCHL5; UC	Q9Y5K5; Q5LJB0	UCHL5_HUM	Unmodified	860010	814730	932950	0	0	0	0	0	0
LDTSFQK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	978110	0	576610	0	0	0	0	0	0
LDTSQWPLLLK	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1_HUMA	Unmodified	1577800	1440400	1398700	0	0	0	0	0	0
LDVFARPASPSLQLLPWR	PPP1R13L	Q8WUF5	IASPP_HUM	Unmodified	249610	181760	282630	0	0	0	0	0	0
LDVGEAMAPPSHR	PELP1; PELP1; PELI	Q8IZL8; E7EV54;	PELP1_HUM	Oxidation (M)	1546100	919460	0	171370	180890	116760	0	0	0
LDVGNAEVKLEEENR	BCAP31; BCAP31; B	P51572; C9J0M4;	BAP31_HUM	Deamidation (N)	626960	319480	573390	34121	42958	32093	0	0	0
LDVGNAEVKLEEENR	BCAP31; BCAP31; B	P51572; C9J0M4;	BAP31_HUM	Unmodified	3659200	0	1917200	92179	22221	21717	0	0	0
LDVLINNAGIFQCPYMK	RDH14; NT5C1B-RD	Q9HBH5; C9J2C7	RDH14_HUM	Deamidation (N)	325490	414130	0	0	0	0	0	0	0
LDVMMETENR	GAA; GAA; GAA	P10253; I3L0S5; I	LYAG_HUM	2 Oxidation (M)	729970	859430	709970	0	0	0	0	0	0
LDVQFSGLTK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	2425100	2122100	2579900	120810	120530	40948	109540	48459	46728
LDVQFSGLTKGDAVR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	300800	281270	240420	0	0	0	83005	0	63202
LDVSLPFVSR	MDC1; MDC1	Q14676; A2AB05	MDC1_HUM	Unmodified	2571000	1994600	1826200	0	0	0	0	0	0
LDVSNVATDTER	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	724370	639690	983840	92065	0	0	0	0	0
LDVSNVATDTERLELK	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	7197900	5786000	5525300	200919	0	0	38373	0	0
LDVTILSPSR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1514400	1525400	1003200	241940	205040	221080	67171	49033	65105
LDVTTQPLTPEQLR	AARS2	Q5JTZ9	SYAM_HUM	Unmodified	2025500	1596100	1766000	75437	66182	66083	0	0	0
LDWELEQR	THOC5; THOC5; TH	Q13769; C9JXG5;	THOC5_HUM	Unmodified	802400	444250	683330	0	28949	33416	0	0	0
LDYFLLSHSLLPALCDSK	APEX1	P27695	APEX1_HUM	Unmodified	920360	306510	964740	0	0	0	0	0	0
LDYGQHVVAGTPGR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUMA	Unmodified	2158700	4575300	3131100	0	12310	0	0	0	0
LDYHISVQNMMR	ATP5PB; ATP5PB	P24539; Q5QNZ2	AT5F1_HUM	2 Oxidation (M)	351600	0	656230	0	0	0	8195	0	22773
LDYQDKWVR	MAN2B1; MAN2B1	O00754; M0QYZ	MA2B1_HUM	Unmodified	307800	598850	555870	0	0	0	0	0	0
LDYSDFQIVK	ACYP1; ACYP1	P07311; G3V2U7	ACYP1_HUM	Unmodified	4668500	6733200	2237300	0	20713	28721	0	0	0
LEAAAQVR	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL_HUMA	Unmodified	788900	0	0	0	0	0	0	0	0
LEAAEER	STMN1; STMN2; STI	P16949; Q93045;	STMN1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LEAALGEAK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	4682600	4713700	5152800	0	0	0	0	0	0
LEAAYLDLQR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA_HUMA	Unmodified	11364000	7478200	11546000	200540	203390	217360	0	23285	20175
LEAEGVPEVSEK	GLRX3	O76003	GLRX3_HUM	Unmodified	0	2739500	2383900	0	0	58507	313060	0	0
LEAEIATYR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	1662700	1560100	1502500	106500	90461	407650	135280	46560	0
LEAEIATYRR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	772060	855960	0	168090	0	159350	0	0	0
LEAFHER	SAFB2	Q14151	SAFB2_HUM	Unmodified	0	480370	449990	0	0	0	0	0	0
LEAFLTQK	MAP2K2; MAP2K1;	P36507; Q02750;	MP2K2_HUM	Unmodified	3763600	5044500	4887100	126570	54691	156260	0	0	0
LEAGAMVLADR	MCM3; MCM3; MC	P25205; A0A499	MCM3_HUM	Oxidation (M)	1147300	1076800	1044100	0	0	0	0	0	0
LEAIEDDSVK	USP14; USP14	P54578; A6NJA2	UBP14_HUM	Unmodified	836410	0	1187800	0	0	0	0	0	0
LEAIITPPPAK	MACROH2A1; MAC	O75367; D6RCF2	H2AY_HUMA	Unmodified	1439400	1200500	910550	102280	70620	88456	0	0	0
LEAKSYFFCR	ATP5PO	H7C068	H7C068_HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
LEALDANSR	CLTA; CLTA	P09496; F8WF69	CLCA_HUMA	Deamidation (N)	2986200	3276500	1244900	96755	0	0	0	0	0
LEALDANSR	CLTA; CLTA	P09496; F8WF69	CLCA_HUMA	Unmodified	0	0	0	23813	203590	186470	0	0	0
LEALSVKEETKEDAEEKQ	RANBP1; RANBP1	P43487; F6WQW	RANG_HUM	Unmodified	2784000	1000200	2598400	0	0	0	0	0	0
LEAPDADELPK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	1788000	2313200	2023100	115230	131690	140940	0	0	0
LEAPELPVK	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH_HUMA	Unmodified	3756300	2614700	4026300	131580	164390	160650	0	0	0
LEAPELPVKVNPTKPR	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH_HUMA	Unmodified	759330	848190	996400	46603	33469	0	0	0	0
LEASELFK	MYO1B; MYO1B; M	O43795; H7C2Y7	MYO1B_HUM	Unmodified	710900	820040	643980	23197	19009	20894	9092.9	0	0
LEASIER	GNG12	Q9UBI6	GBG12_HUM	Unmodified	1768400	1259100	0	125060	126850	150320	0	0	0
LEAVSHTSDMHR	CAP1; CAP1; CAP1;	Q01518; Q5T0S3;	CAP1_HUMA	Oxidation (M)	4761500	1739100	3076400	0	0	0	0	0	0
LECADLLETR	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM_HUM	Unmodified	1261100	482740	651390	0	0	0	0	0	0
LECLKEDVQR	CDC5L	Q99459	CDC5L_HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
LEDAADVYR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	Unmodified	948120	3896100	2608900	91658	17727	126690	0	0	0
LEDELNR	DSP	P15924	DESP_HUMA	Unmodified	5442700	6404400	6490200	0	117660	156080	0	0	0
LEDLNFPEIK	NOC2L	Q9Y3T9	NOC2L_HUM	Unmodified	558060	506650	703100	0	0	0	0	0	0
LEDLNFPEIKR	NOC2L	Q9Y3T9	NOC2L_HUM	Unmodified	0	621830	928040	31016	11440	0	0	0	0
LEDLSESIVNDFAYMKK	TMED10	P49755	TMEDA_HUM	Oxidation (M)	762160	457150	492310	0	0	0	0	0	0
LEDPHVDIIR	TMEM43	Q9BTV4	TMM43_HUM	Unmodified	1464500	2111200	1881900	0	32354	0	0	0	0
LEDPVQR	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT_HUMAN	Unmodified	548930	365030	649420	74159	48921	60440	0	0	0
LEDSEVR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2_HUM	Unmodified	1635200	1846400	2029600	70421	92969	92366	0	0	0
LEDSTRETQSQLETER	DSP	P15924	DESP_HUMA	Unmodified	234430	363870	0	0	0	0	0	0	0
LEDVLPLAFTR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	23157000	20499000	20133000	0	109940	114030	19491	27124	0
LEEEALR	CCDC12; CCDC12; C	Q8WUD4; J3KR3:	CCD12_HUM	Unmodified	806460	660740	688250	0	0	0	0	0	0
LEEGPPVTTVLTR	PDHA1; PDHA2; PDI	P08559; P29803; (	ODPA_HUM/	Unmodified	4998200	4816700	5339700	87869	70192	114840	0	0	0
LEEGPPVTTVLTREDGLK	PDHA1; PDHA1; PDI	P08559; Q5JPU0;	ODPA_HUM/	Unmodified	571680	539800	626980	0	0	0	0	0	0
LEEIPLIK	EIF3A	Q14152	EIF3A_HUMA	Unmodified	1429000	833500	728430	35777	38228	48599	0	0	0
LEELEKEEELR	GTPBP4	Q9BZE4	GTPB4_HUM	Unmodified	643910	710800	749100	0	0	0	0	0	0
LEELGLAGIR	HDAC6; HDAC6	Q9UBN7; A0A2R	HDAC6_HUM	Unmodified	0	4323300	1215400	0	0	0	133880	0	113100
LEELTMDGAK	NOP56; NOP56; NOI	O00567; Q5JXT2;	NOP56_HUM	Oxidation (M)	2578500	958380	0	33621	0	0	0	0	0
LEELTNR	CCDC6	Q16204	CCDC6_HUM	Unmodified	0	1118100	0	0	0	0	0	0	0
LEEMFPDEVDTPR	TSR1	Q2NL82	TSR1_HUMA	Oxidation (M)	998200	0	1003700	0	0	0	0	0	0
LEEMFPDEVDTPRDVAAR	TSR1	Q2NL82	TSR1_HUMA	Oxidation (M)	2193300	1957900	2141500	33795	27187	43543	0	0	0
LEENIDNIK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Methyl (KR);Deam	0	1189900	0	0	0	0	0	0	0
LEEPSLR	DNM1L	O00429	DNM1L_HUM	Unmodified	1450500	1297000	1235600	0	0	0	0	0	0
LEEQLGR	CORO1B; FER1L4; S	Q9BR76; A9Z1Z3	COR1B_HUM	Unmodified	1453100	0	1634500	0	97182	140350	0	0	0
LEEQLGRMENGDA	CORO1B	Q9BR76	COR1B_HUM	Oxidation (M);Deai	858620	556530	652120	77022	56633	62210	0	0	0
LEEQLMK	TOP1; TOP1	P11387; A0A7P01	TOP1_HUMA	Oxidation (M)	1447200	2743500	1255900	0	0	0	0	0	0
LEEQMNGLKTSNEHLQKHVEDLLTK	TPR	P12270	TPR_HUMAN	Deamidation (N)	1128500	0	0	0	0	0	0	0	0
LEESVALR	PPP3CA; PPP3CA; P	Q08209; E9PPC8;	PP2BA_HUM	Unmodified	1749100	579470	1799500	0	0	0	0	0	0
LEETLEQLAK	OSBP	P22059	OSBP1_HUM	Unmodified	559660	0	0	0	0	0	0	0	0
LEETLPVIR	GET3	O43681	GET3_HUMA	Unmodified	3758000	3905700	3099200	37342	31855	37732	0	0	0
LEETQALLR	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1_HUM	Unmodified	762040	990570	855360	0	0	0	0	0	0
LEETVQAK	CORO1A; CORO1A	P31146; H3BRY3	COR1A_HUM	Unmodified	553450	0	1062000	0	0	70692	0	0	0
LEEVTGKLQVAR	PRPF6	O94906	PRP6_HUMA	Unmodified	1021000	970510	846920	13337	18994	18177	0	0	0
LEEWLGR	MARS1	P56192	SYMC_HUM	Unmodified	316720	699140	334550	0	0	0	0	0	0
LEGDTLIIPR	HSPG2	P98160	PGBM_HUM	Unmodified	0	954750	856630	130810	146940	144160	28437	28571	37700
LEGEACGVVTPR	IGFBP2	P18065	IBP2_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LEGGEVDLK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	55759	66284	51837	0	0	0
LEGGSGGDSEVQR	PSMC5; PSMC5	P62195; J3QQM1	PRS8_HUMA	Unmodified	1424900	1302000	1664700	200040	187650	179190	0	0	0
LEGHKEGIVQTEQIR	CDC73; CDC73; CD	Q6P1J9; A0A2R8	CDC73_HUM	Unmodified	414670	432110	458600	0	0	0	0	0	0
LEGLGSSEADQDGLASTVR	CKAP4	Q07065	CKAP4_HUM	Unmodified	1521500	624670	2243200	164230	180030	224490	0	0	0
LEGPFNIESVMDPIDVK	GPC6; GPC4; GPC6	Q9Y625; O75487;	GPC6_HUMA	Oxidation (M)	602710	617900	594970	0	0	0	0	0	0
LEGQGDVPTPK	SUGT1	Q9Y2Z0	SGT1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LEGREFEFLMR	FOXK1	P85037	FOXK1_HUM	Oxidation (M)	0	863810	1679800	0	0	0	0	0	0

LEGREFEYLMK	FOXK2	Q01167	FOXK2_HUM	Oxidation (M)	1206200	936920	1021900	21647	12492	0	0	0	0
LEGSDVQLLEYEASAAGLIR	DPP3; DPP3; DPP3	Q9NY33; G3V1D3	DPP3_HUMA	Unmodified	920860	514580	1163300	0	0	0	0	0	0
LEGTNVQEAQK	SUCLG2; SUCLG2	Q96J99; H0Y852	SUCB2_HUM	Unmodified	3385500	3698400	3702300	282900	333630	282220	0	0	0
LEGVDEATR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO_HUM/	Unmodified	3372100	3973100	4125100	50407	0	0	0	0	0
LEGVLAEVAQHYQDTLIR	IQGAP1; IQGAP1	P46940; A0A0J9Y	IQGA1_HUM	Unmodified	3949200	4162300	4940500	0	0	0	0	0	0
LEHENPSDPQTPLVFK	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP_HUMA	Unmodified	3062700	3416100	1935000	0	57596	0	0	0	0
LEHEYIQNFK	MAPRE1	Q15691	MARE1_HUM	Unmodified	1394800	1483100	2315500	0	0	0	0	0	0
LEICNLTPDALK	CAPN1	P07384	CAN1_HUMA	Unmodified	357510	556750	473440	0	0	0	0	0	0
LEIEPEWAYGKK	FKBP3	Q00688	FKBP3_HUM	Unmodified	2077800	2654500	2854400	59244	57474	62640	0	0	0
LEIHHR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Unmodified	756260	0	1027800	0	0	0	0	0	0
LEKAIAFADR	GATC; N/A; GATC	O43716; H0YIV9;	GATC_HUM/	Methyl (KR)	0	0	0	0	0	0	0	0	0
LEKHELIEFR	CLTC; CLTC; CLTC;	Q00610; K7EJJ5;	CLH1_HUMA	Unmodified	0	0	1220800	0	0	0	0	0	0
LEKPAKYDDIK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	2498600	2422000	2414500	0	0	0	0	0	0
LEKQINKEK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	0	0	4601300	0	0	0	0	0	0
LELAEQKLQQTLR	PPFIA1; PPFIA1; PPI	Q13136; E9PJZ7;	LIPA1_HUM/	Unmodified	413980	443940	416880	0	0	0	0	0	0
LELAQYR	ATP5F1A	P25705	ATPA_HUMA	Unmodified	3667500	3580400	4114400	48601	50312	58124	0	0	0
LELCDER	UQCRH	P07919	QCR6_HUMA	Unmodified	0	0	0	286220	160560	0	0	0	0
LELCDERVSSR	UQCRH	P07919	QCR6_HUMA	Unmodified	2588000	2702600	2371200	477510	521860	478410	0	0	0
LELEAAQK	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Unmodified	2220300	2274000	2344500	72259	72333	0	0	0	0
LELEEAATPEGHAVR	LAMA5	O15230	LAMA5_HUM	Unmodified	0	0	521230	153210	0	174740	66875	0	58544
LELEQTYQAK	LMNB2	Q03252	LMNB2_HUM	Unmodified	2902700	1941500	1785500	167140	145140	136240	0	0	0
LELFLPEEYPMAAPK	UBE2N; UBE2N; UB	P61088; F8VV71;	UBE2N_HUM	Oxidation (M)	4589900	4054000	3546400	0	0	0	15214	0	0
LELGIGPGAATR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN_HUM	Unmodified	0	0	684490	0	179290	215260	0	0	0
LELLLQK	STAG1; STAG2; STA	Q8WVM7; Q8N3I	STAG1_HUM	Unmodified	1099000	886740	0	0	0	0	0	0	0
LELLPDPLLRPSPLLATGQPAGSEDLTK	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5;	NCOR2_HUM	Unmodified	751820	636350	1057900	0	0	0	0	0	0
LELNITTIKEPK	N/A	N/A	N/A	Deamidation (N)	3130100	3168100	3337900	0	0	0	0	0	0
LELPLWLAK	GINS3	Q9BRX5	PSF3_HUMA	Unmodified	253590	247000	405570	0	0	0	0	0	0
LELQGPR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Unmodified	93582000	69131000	101250000	1699600	1749700	1807400	166770	170620	151510
LELQGPRGSPNAR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Unmodified	0	0	0	277990	196990	266980	0	0	0
LELSENR	ANP32B	Q92688	AN32B_HUM	Unmodified	394390	1873000	298760	0	0	0	0	0	0
LEMEGITVK	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46_HUM	Oxidation (M)	550250	583720	1965000	84055	21375	88477	0	0	0
LEMEQAQK	EMC10; EMC10	Q5UCC4; M0R2A	EMC10_HUM	Oxidation (M)	608140	0	619040	0	0	0	0	0	0
LEMLEMK	N/A	N/A	N/A	2 Oxidation (M)	0	1111400	0	0	0	0	0	0	0
LEMYNILK	TARS1; TARS1; TAR	P26639; D6R9F8;	SYTC_HUMA	Oxidation (M)	2088800	1960200	1661000	11128	0	12881	0	0	0
LENDQIESLR	MARS1; MARS1; MA	P56192; H0YI27;	SYMC_HUM	Unmodified	631210	782280	715990	0	0	0	0	0	0
LENGEIETIAR	APMAP; APMAP	Q9HDC9; H0Y51/	APMAP_HUM	Deamidation (N)	17424000	9882000	16624000	867140	795270	1138300	0	0	0
LENGELEHIRPK	PAFAH1B3; PAFAH1	Q15102; M0R323	PA1B3_HUM	Deamidation (N)	7453400	11896000	13086000	23024	42688	0	0	0	0
LENLGIPEEELLR	DR1	Q01658	NC2B_HUMA	Unmodified	498700	450620	362970	0	0	0	0	0	0
LENLGIPEEELLRQQQELFAK	DR1	Q01658	NC2B_HUMA	Unmodified	3029000	2851700	4072900	0	0	0	0	0	0
LENLLLLDLQHNR	PRELP	P51888	PRELP_HUM	Methyl (KR);Deam	812490	800260	1140200	0	17444	0	0	0	0
LENSPLGEALR	OCIAD1; OCIAD1; O	Q9NX40; D6RG3	OCAD1_HUM	Unmodified	0	0	1047000	0	0	0	0	0	0
LENYPIPEPGPNEVLLR	SORD; SORD; SORD	Q00796; H0YKB3	DHSO_HUM/	Unmodified	2508700	2190800	2538700	20687	0	0	0	0	0
LEPDILLR	AMPD2; AMPD2; AM	Q01433; H0YF16;	AMPD2_HUM	Unmodified	287080	223220	222450	24878	24437	28552	0	0	0
LEPHKPQQPIDSTVSFGASTR	PPP1R8	Q12972	PP1R8_HUM	Unmodified	2138200	1499000	0	0	0	0	0	0	0
LEPKPQPPVAEATPR	SEPTIN9; SEPTIN9; :	Q9UHD8; K7EJ51	SEPT9_HUM	Unmodified	28304000	25118000	24889000	861680	946710	896660	313340	283410	281780
LEPLYSPIR	TFIP11	Q9UBB9	TFP11_HUM/	Unmodified	900550	662340	277810	0	0	0	0	0	0
LEPNAQAQMYR	AP2A1	O95782	AP2A1_HUM	Oxidation (M)	0	0	679920	0	0	0	0	0	0
LEPQIASASEYAHR	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3_HUM/	Unmodified	1110200	882410	945220	0	0	0	0	0	0
LEPSTSTDQPVTPEPTSQATR	MDC1	Q14676	MDC1_HUM	Unmodified	2074600	2754000	3708000	0	0	81841	0	0	0
LEQAAIVK	FKBP5	Q13451	FKBP5_HUM	Unmodified	325430	399350	339930	0	0	0	0	0	0
LEQDEYALR	HADHB; HADHB	P55084; F5GZQ3	ECHB_HUMA	Unmodified	13779000	13118000	15211000	432890	380660	451840	0	0	0
LEQDLQQMQAK	TPR	P12270	TPR_HUMAN	Oxidation (M)	602020	525890	825160	0	133410	0	0	0	0
LEQEEQQR	TIMM50; TIMM50; T	Q3ZCQ8; M0R2F	TIM50_HUM	Unmodified	1374400	1889400	1638000	0	0	31088	0	0	0
LEQEEQQRLAELSK	TIMM50; TIMM50; T	Q3ZCQ8; M0R2F	TIM50_HUM	Unmodified	541540	546420	434960	0	0	0	0	0	0
LEQEERREQR	TCHH	Q07283	TRHY_HUM/	Methyl (KR)	0	0	1559900	0	0	0	0	0	0
LEQELFSGGNTGINFEK	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X_HUM	Unmodified	916520	491420	690170	12786	0	0	0	0	18802
LEQELMK	N/A	N/A	N/A	Oxidation (M)	1447200	0	0	0	0	0	0	0	0
LEQEVAR	CROCCP2; CROCC;	Q86T23; Q5TZA2	CROL1_HUM	Unmodified	1598400	1936800	0	0	0	0	0	0	0
LEQGQAIDDLMPAQK	CKB; CKB	P12277; H0YJG0	KCRB_HUM/	Oxidation (M)	10280000	6983400	7436300	124380	95769	120470	0	0	0
LEQLGAQR	POR; POR	P16435; H0Y4R2	NCPR_HUMA	Unmodified	817870	2937500	3089700	117510	203800	131550	0	0	0
LEQPDPGAVAAAAILR	TKFC	Q3LXA3	TKFC_HUMA	Unmodified	6272600	5541500	5832600	33434	23135	25809	0	10297	12501
LEQQLVHVERPILR	DNPEP; DNPEP; DN	Q9ULA0; E5RIA4	DNPEP_HUM	Unmodified	696930	1063900	641440	0	0	0	0	0	0
LEQQVPVNQVFGQDEMIDVIGVTK	RPL3; RPL3; RPL3; I	P39023; B5MCW	RL3_HUMAN	Oxidation (M)	6067200	6649400	6350700	0	0	0	0	0	0
LEQQVPVNQVFGQDEMIDVIGVTK	RPL3; RPL3; RPL3; I	P39023; B5MCW	RL3_HUMAN	Oxidation (M);Deam	3444500	986750	0	0	0	0	0	0	0
LEQSEAQLGR	COPS5	Q92905	CSN5_HUMA	Unmodified	663460	595780	602130	0	0	71538	0	0	0
LEQSTIVK	FKBP4	Q02790	FKBP4_HUM	Unmodified	1166700	1025100	1008000	24798	38234	15692	0	0	0
LEQYTSAIEGTK	CALD1; CALD1; CA	O05682; C9J813;	CALD1_HUM	Unmodified	934240	778630	615030	68665	87581	68081	0	0	0
LERENAEVDGDDDAEEMEAKAED	EIF2S1	P05198	IF2A_HUMAN	Oxidation (M)	664850	873340	661710	0	0	0	0	0	0
LESEETMVLEAHDAQGDVPVTVTVHDFPGK	C3	P01024	CO3_HUMAN	Oxidation (M)	0	3388500	0	0	0	0	0	0	0
LESELANFGPR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LESLNIQR	EIF3A	Q14152	EIF3A_HUMA	Unmodified	7810100	5730900	5653700	76268	172090	272270	0	0	0
LESLNIQR	EIF3A	Q14152	EIF3A_HUMA	Deamidation (N)	0	354430	255950	41152	0	74760	36804	38863	30195
LESLSYQLSGLQK	LMNB2	Q03252	LMNB2_HUM	Unmodified	1238000	0	0	0	0	0	0	0	0
LESTYEIRQDIEDSVSR	AQR; AQR	O60306; H0YH15	AQR_HUMAN	Unmodified	1270800	1077200	1344100	0	0	0	0	0	0
LETCFLRYEDEECTLPIAGR	FBN1	P35555	FBN1_HUMA	Unmodified	334510	224790	206170	0	0	0	32718	0	11669
LETGQFLTFR	UBA6	A0AVT1	UBA6_HUMA	Unmodified	785870	946820	1350400	0	0	0	0	0	0
LETHMTPEMFR	DHX9	Q08211	DHX9_HUMA	2 Oxidation (M)	5459900	5674300	6631000	30019	29277	0	0	0	0
LETVGSIFSR	MRPS23; MRPS23	Q9Y3D9; J3QLR8	RT23_HUMA	Unmodified	1960800	1322800	1604100	0	0	0	0	0	0
LETYENAR	PRPF6	O94906	PRP6_HUMA	Unmodified	911990	0	0	27415	111550	0	0	0	0
LEVAPISDIIAIK	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA_HUMA	Unmodified	2958400	3474800	2472800	30615	0	38839	28458	57152	40158
LEVAPISDIIAIKSPDTFVR	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA_HUMA	Unmodified	1963900	1091000	1346300	0	0	0	0	0	0
LEVAPISDIIAIKSPDTFVR	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA_HUMA	Methyl (KR)	363800	258130	332370	0	0	0	0	0	0
LEVIIPER	UBE2T	Q9NPD8	UBE2T_HUM	Unmodified	738480	0	728630	0	0	0	0	0	0
LEVLDSTK	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL_HUM	Unmodified	3276300	3100700	3103800	210930	149000	0	0	0	0
LEVPVEMNPEGYMTSR	BCAM; BCAM; BCA	P50895; A0A087	BCAM_HUM	2 Oxidation (M)	1386900	1425600	1818900	164210	105050	138580	0	0	0
LEVQAEEER	PNN	Q9H307	PINN_HUMA	Unmodified	1278200	1590900	1598700	0	0	0	0	0	0
LEWDGFFSTTVTNPEPMGK	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1_HUM	Oxidation (M)	984810	0	558060	0	0	0	0	0	0
LEYGGLGR	CMBL	Q96DG6	CMBL_HUMA	Unmodified	2038400	1648600	939720	138870	35098	42236	0	0	0
LFADAEEEQR	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Unmodified	766970	596180	775890	34613	0	0	0	0	0
LFADAEEEQRR	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Unmodified	1072800	898410	1513000	0	0	0	0	0	0
LFADAVQELLPQYK	MCM7	P33993	MCM7_HUM	Unmodified	3955900	2638500	3372900	0	0	0	0	0	0
LFADAVQELLPQYKER	MCM7	P33993	MCM7_HUM	Unmodified	9744800	4025400	9300700	0	0	0	0	0	0
LFAEEKAVADTRDQADGSR	PIGR	P01833	PIGR_HUMA	Unmodified	0	0	0	408480	204920	367500	0	0	0
LFAVAPNQNLK	COL6A2	P12110	CO6A2_HUM	Unmodified	1055800	1207000	1134600	81957	88578	72979	0	0	0
LFAVAPNQNLKEQGLR	COL6A2	P12110	CO6A2_HUM	Deamidation (N)	885040	692780	774280	0	0	38596	0	0	0
LFAVAPNQNLKEQGLR	COL6A2	P12110	CO6A2_HUM	Unmodified	1500100	1119200	1408400	268240	230010	336480	69002	63281	42280
LFCIPVHGIR	IMPA1; IMPA1	P29218; H0YBL1	IMPA1_HUM	Unmodified	2823300	2709700	3347600	21274	13429	0	0	0	0
LFDDDETGKISFK	CETN2; CETN1	P41208; Q12798	CETN2_HUM	Unmodified	864880	824520	167800	0	0	0	0	0	0
LFDFPGR	RCC2	Q9P258	RCC2_HUMA	Unmodified	12776000	12072000	12089000	95808	107290	80943	9946	0	10671
LFDFVNAK	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1_HUM	Unmodified	1806700	2024800	1894900	0	0	0	0	0	0
LFDFVNAK	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1_HUM	Deamidation (N)	729960	1057000	711180	0	0	0	0	0	0
LFDHPESPTPNPTEPLFLAQAEVYK	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	3910300	3244700	2824800	0	0	0	0	0	0
LFDHPESPTPNPTEPLFLAQAEVYKELR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	1242300	934320	1403100	0	0	0	0	0	0
LFDIRPIWSR	GTF3C5; GTF3C5; G	Q9Y5Q8; Q5T7U4	TF3C5_HUM	Unmodified	732350	470110	596070	0	0	0	0	0	0
LFDPINLVFPPGGR	COG5	Q9UP83	COG5_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LFDQAFGLPR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1_HUM	Unmodified	54218000	50477000	45149000	1849900	1878300	1651400	247400	247080	234950
LFDQPGDPLKR	PTCD3	Q96EY7	PTCD3_HUM	Unmodified	1761200	1645500	1764200	34236	23556	21228	0	0	0
LFDRGDFYTAHGEDALLAAR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	11737000	9660000	9447000	0	0	0	0	0	0
LFDSDPITVTVPVEVSR	CLU; CLU	P10909; H0YAS8	CLUS_HUMA	Unmodified	836240	981220	800460	0	0	0	0	0	0
LFDSTTLEHQK	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z	EIF3I_HUMA	Unmodified	4410800	4731800	4215700	172380	236950	237600	49775	0	0
LFDVGGQR	GNAO1; GNAO1; GI	P09471; H3BTM2	GNAO_HUM	Unmodified	1696300	2700300	2441800	0	0	0	0	0	0
LFDVLHEPFLKVP	ERCC1	P07992	ERCC1_HUM	Unmodified	656540	755280	800060	0	0	0	0	0	0
LFDYFPKPYPNSEAAR	CYC1	P08574	CY1_HUMAN	Deamidation (N)	10852000	7988300	10780000	152510	152940	99248	0	0	15907
LFDYFPKPYPNSEAAR	CYC1	P08574	CY1_HUMAN	Unmodified	0	1764100	1962600	0	0	0	0	0	0
LFEDTKYTTLIAK	TES	Q9UGI8	TES_HUMAN	Unmodified	552270	492550	735750	0	0	0	0	0	0
LFEELVR	PKM; PKM	H3BTN5; H3BR7	H3BTN5_HU	Unmodified	5925900	6065600	5599600	25410	28334	64580	0	9596.6	6926.4
LFEEPEKPPPTGRPPAPPR	INPPL1; INPPL1	O15357; A0A0A0	SHIP2_HUM	Unmodified	3526800	3580900	3220000	210530	68321	324500	0	0	0
LFEFAGYDVLR	RARS1	P54136	SYRC_HUMA	Unmodified	2262200	1849100	1893100	0	0	0	0	0	0
LFEGIIK	CASK; CASK; CASK	O14936; A0A2U3	CSKP_HUMA	Unmodified	848200	545140	503090	0	0	0	0	0	0
LFEGNALLR	RPS9; RPS9; RPS9	P46781; B5MCT8	RS9_HUMAN	Unmodified	11426000	9528600	10304000	124990	41824	91437	0	17081	0
LFEGNALLR	RPS9; RPS9; RPS9	P46781; B5MCT8	RS9_HUMAN	Deamidation (N)	6180700	3082200	1910600	88135	122170	28043	0	21224	0
LFEKPLDSQSIYQLIEISR	SCG2	P13521	SCG2_HUMA	Unmodified	373120	97210	397730	0	0	0	0	0	0
LFEMAYK	HSPA9; HSPA9; HSP	P38646; A0A7Z	GRP75_HUM	Oxidation (M)	0	1912900	1749100	0	0	0	0	0	0
LFENQLVGPESIAHIGDVMFTGTADGR	APMAP; APMAP	Q9HDC9; H0Y51/	APMAP_HUM	Oxidation (M)	4320000	0	3357100	0	0	0	0	0	0
LFENQLVGPESIAHIGDVMFTGTADGR	APMAP; APMAP	Q9HDC9; H0Y51/	APMAP_HUM	Oxidation (M);Deam	1198400	438010	469500	0	0	0	0	0	0
LFEQNVQR	UBE2M; UBE2M	P61081; M0QX69	UBC12_HUM	Unmodified	13144000	15617000	12714000	781980	664910	862940	87198	0	61838
LFEYRNQGDEEGTEIDTLQFR	POLR1C; POLR1C; F	O15160; A0A2R8	RPAC1_HUM	Deamidation (N)	837570	754780	988070	0	0	0	0	0	0
LFFLQVK	RDX; EZR; MSN; NF	P35241; P15311;	RADI_HUMA	Unmodified	686710	1484800	592790	43949	49195	48859	53654	32754	56319
LFFQPHQAGLSK	UBA5; UBA5; UBA5	Q9GZZ9; E7EWE	UBA5_HUMA	Unmodified	1507800	1149600	1142000	39528	36870	30603	0	0	0
LFGAAEVQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	7211200	6585700	8047700	256770	294090	294300	0	0	0
LFGFVAR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1_HUM	Unmodified	0	0	611860	0	0	0	0	0	0
LFGFVLR	APPL1	Q9UKG1	DP13A_HUM	Unmodified	710480	560760	1449900	0	0	0	0	0	0

LFGGFNSSDTVTSPQR	SRC	P12931	SRC_HUMAN	Deamidation (N)	1773100	0	1470700	106300	83444	84043	0	0	0
LFGGNFAHQASVAR	TPP1; TPP1; TPP1; T	O14773; A0A2R8	TPP1_HUMA	Unmodified	27529000	24348000	21113000	937000	1100500	960030	111950	74652	65240
LFGGNFAHQASVAR	TPP1; TPP1; TPP1; T	O14773; A0A2R8	TPP1_HUMA	Deamidation (N)	11438000	14964000	15914000	530920	481770	624420	38777	56900	40395
LFGGQIVGQALVAAAK	ACOT8; ACOT8; AC	O14734; E9PJN0;	ACOT8_HUM	Unmodified	288910	266370	434740	0	0	0	0	0	0
LFGHSSTSALSAILR	HUWE1	Q7Z6Z7	HUWE1_HUM	Unmodified	6101400	5182000	5590000	0	0	0	0	0	0
LFGQETPEQR	SNX4	O95219	SNX4_HUMA	Unmodified	0	0	853120	0	0	0	0	0	0
LFGYEPTIYYPK	NAXE; NAXE; NAXI	Q8NCW5; A0A7P	NNRE_HUMA	Unmodified	6899700	6699300	8134800	35497	28521	15664	0	0	13228
LFGGKFVESK	ALDH6A1	Q02252	MMSA_HUM	Unmodified	268690	0	384270	202490	249210	0	0	0	0
LFGGLNTETNEK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	2 Deamidation (N)	696830	1110400	0	0	27914	0	0	0	0
LFGGLNTETNEK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Deamidation (N)	0	3430300	3703300	0	89487	34080	0	0	0
LFGGLNTETNEK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Unmodified	6994000	5382000	4585500	0	0	0	0	0	0
LFGGLNTETNEKALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	Unmodified	1751600	721340	1246700	0	0	0	0	0	0
LFGGLNTETNEKALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	Deamidation (N)	1059600	414970	830310	0	0	0	0	0	0
LFGGLNTETNEKALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	2 Deamidation (N)	922950	229170	468610	0	0	0	0	0	0
LFGGLNTETNEKALEAVFGKYGR	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	Unmodified	620090	0	1092600	0	0	0	0	0	0
LFGGLNVQTSESGLR	HNRNPA0	Q13151	ROA0_HUMA	Unmodified	3711500	2013700	3242200	0	0	0	12074	10717	0
LFGGLPNYLNDDQVK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2_HUM	Unmodified	0	187420	78198	0	0	0	0	0	0
LFGGLSFETTDSLR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	3053800	584960	1181200	0	0	0	0	0	0
LFGGLSFETTDSLR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Methyl (KR)	0	3478900	0	0	0	0	0	0	0
LFGGLSFETTDSLREHFEK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	21801000	8359800	18676000	18564	0	12999	0	0	0
LFGGLSFETTDESLR	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	24436000	9687100	24993000	40091	21504	0	38070	30310	19422
LFGGLSFETTEESLR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	21442000	12563000	16418000	0	10463	13167	0	0	0
LFIGNLPR	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4_HUM	Unmodified	1468400	1030800	2601200	0	0	19826	0	0	0
LFIQKEEQLQQILK	MNAT1; MNAT1; M	P51948; H0YJF2;	MAT1_HUM	Unmodified	673270	326370	599190	0	0	0	0	0	0
LFIVESNSSSSSTR	GCLM	P48507	GSH0_HUMA	Deamidation (N)	769130	0	0	94964	92585	99461	0	0	0
LFKEVDGEGKPYYEVR	DPP3; DPP3; DPP3; I	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	7850800	7471500	8261800	84748	242860	48319	0	0	0
LFKPGQEAVK	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	1334600	1196000	890700	0	0	0	0	0	0
LFKPGQEAVKYQGPR	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	765790	1294300	0	0	25623	83735	0	0	0
LFLAPLPSSDVPLGQQLLR	AGAP3; AGAP3	Q96P47; H0Y873	AGAP3_HUM	Unmodified	244450	95923	228280	0	0	0	0	0	0
LFLEDQLK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	937280	0	0	0	0	0	0	0	0
LFLNETQTQEITEDIPVK	IARS1	P41252	SYIC_HUMA	Deamidation (N)	806180	682280	0	0	0	0	0	0	0
LFLSMDPVHGDISR	MDN1	Q9NU22	MDN1_HUM	Oxidation (M)	836520	1202200	1385300	28230	22760	29560	0	0	0
LFLTMEINPK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1562800	2471100	1180500	0	0	0	0	0	0
LFLTYR	B3GNT4	Q9C0J1	B3GN4_HUM	Unmodified	384490	525430	584050	25390	22445	25663	0	0	0
LFLVQLQEK	NUDT21; NUDT21	O43809; H3BND3	CPSF5_HUM	Unmodified	1496800	2296500	0	18271	0	0	0	8507	0
LFMAQALQEYNN	EIF3H; EIF3H; EIF3H	O15372; B3KS98;	EIF3H_HUM	Oxidation (M)	1136100	840350	807130	26740	23153	0	0	0	0
LFMILWLK	CLIC5; CLIC6; CLIC	Q9NZA1; Q96NY	CLIC5_HUM	Oxidation (M)	154040	146020	149760	0	0	0	0	0	0
LFMVLLLK	CLIC3	O95833	CLIC3_HUM	Oxidation (M)	391450	363680	465570	0	0	0	0	0	0
LFMVLWLK	CLIC1	O00299	CLIC1_HUM	Oxidation (M)	1976900	2028800	2521500	0	0	0	0	0	0
LFNAALAMTGKMGGKGAKGGK	CNGB1	Q14028	CNGB1_HUM	2 Oxidation (M);M	0	0	0	0	0	0	0	0	0
LFNHANQEVQR	PKP3	Q9Y446	PKP3_HUMA	Unmodified	531710	649930	306830	0	0	0	0	0	0
LFNLSKEDDVR	RPS6; RPS6	P62753; A2A3R5	RS6_HUMAN	Unmodified	2460300	1635400	2031800	38371	31727	31019	0	0	9808.6
LFNVDRHVGMAVAGLLADAR	PSMA3	P25788	PSA3_HUMA	Oxidation (M)	310400	818150	266360	0	0	0	0	0	0
LFNYMYSTAPRPSLEPTR	PDK3	Q15120	PDK3_HUMA	Oxidation (M)	795760	693280	920950	0	0	0	0	0	0
LFPDTPLALDANKK	ILF3	Q12906	ILF3_HUMAN	Unmodified	493970	531010	597520	0	0	0	0	0	0
LFPGLAIK	KIF2C; KIF2C	Q99661; Q5JR91	KIF2C_HUM	Unmodified	348180	255070	301880	0	15604	0	0	0	0
LFPLIQAMHPTLAGK	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Oxidation (M)	14028000	15131000	15241000	0	0	0	0	0	0
LFPNSLDQTDMHGDSEYNIMFGPDICGPGTK	CALR; CALR; CALR	P27797; A0A7P01	CALR_HUM	2 Oxidation (M);De	826680	1263700	1654500	0	0	0	0	0	0
LFPPDDSPLPVSSR	SRSF11; SRSF11; SR	Q05519; B4DWT1	SRS11_HUM	Unmodified	2004500	2243400	1830700	0	0	29529	0	0	0
LFPPWIKPADTEPPPLLVYK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Unmodified	359210	357850	385970	0	0	0	0	0	0
LFPSPGLPTR	PNPLA6; PNPLA6; P	Q8IY17; M0R2C2	PLPL6_HUM	Unmodified	587450	497100	345470	13512	65119	67499	0	0	0
LFPYALAFMPPGYEEDMK	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	2 Oxidation (M)	111790	79210	177950	0	0	0	0	0	0
LFQECCPHSTDR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Unmodified	5385300	5180100	5149600	81164	76498	77122	0	0	0
LFQLYPR	MRPL41	Q8IXM3	RM41_HUMA	Unmodified	1798100	1165500	1983400	41544	35484	64620	0	0	0
LFQLYPRNFLR	MRPL41	Q8IXM3	RM41_HUMA	Deamidation (N)	1415400	1024100	1195200	0	0	0	0	0	0
LFQPVQYGQKPEGR	EP400	Q96L91	EP400_HUM	Unmodified	1078800	924550	0	0	0	0	0	0	0
LFQQIYSDGSDEVKR	SUGT1	Q9Y2Z0	SGT1_HUMA	Unmodified	2138100	3133300	2471700	0	0	0	0	0	0
LFQSDTNAMLGKK	YEATS4; YEATS4; Y	O95619; F8VTR4;	YETS4_HUM	Oxidation (M);Meth	284320	0	352560	0	0	20806	0	0	0
LFQSNDPTLRR	COPG1	Q9Y678	COPG1_HUM	Unmodified	647340	861070	947020	84454	70996	73042	10838	0	0
LFQTAFPAPYGPSPASR	TAF6L	Q9Y6J9	TAF6L_HUM	Unmodified	1944800	0	0	0	0	0	0	0	0
LFQVEYAIEAIK	PSMA5	P28066	PSA5_HUMA	Unmodified	3473900	1812600	3308300	0	0	0	0	0	0
LFQVLAPR	MRPL17; MRPL17	Q9NRX2; E9PKV	RM17_HUMA	Unmodified	4909400	3897600	4386600	19088	18368	0	0	0	0
LFQVQGTGANNTKAFEVPAR	VIL1; VIL1; VIL1	P09327; H7C0B6;	VILI_HUMAN	Deamidation (N)	0	395490	281470	0	0	0	0	0	0
LFSADPFDLEAQAK	DDI2; DDI2; DDI2	Q5TDH0; H0YB90	DDI2_HUMA	Unmodified	3300500	1822900	0	37631	49213	35597	14800	0	0
LFSDEAANIYER	CSTF3; CSTF3	Q12996; E9PLP8	CSTF3_HUM	Unmodified	0	576220	657130	19724	0	31744	0	0	0
LFSGATMASSR	SLC25A10; SLC25A1	Q9UBX3; F6RGN	DIC_HUMAN	Oxidation (M)	2377100	2241500	2565200	109970	73625	36694	0	13156	0
LFSGDVVLTAR	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1_HUMA	Unmodified	816460	676510	993440	0	0	0	0	0	31702
LFSLELVDESGEIR	RPA1	P27694	RFA1_HUMA	Unmodified	739720	54026	419700	0	0	0	0	0	0
LFSQETVMK	APMAP; APMAP	Q9HDC9; H0Y51Z	APMAP_HUM	Oxidation (M)	1605000	1341900	1405900	0	0	0	0	0	0
LFSQGQDVSNKVK	AFDN; AFDN; AFDN	P55196; H0Y948;	AFAD_HUMA	Unmodified	1523400	1271100	0	273910	197700	225250	0	12825	17174
LFSSFLK	EPB41; EPB41; EPB	P11171; A0A2R8	EPB41_HUM	Unmodified	625740	547210	448160	0	0	0	0	0	0
LFSTLDPELMLNPENLPR	GOLGA3	Q08378	GOGA3_HUM	Oxidation (M)	1225800	861880	945160	0	0	0	0	0	0
LFTAESLIGLK	ARCN1; ARCN1	P48444; B0YIW6	COPD_HUMA	Unmodified	1421600	0	1245300	11187	9644.5	0	0	9400.2	0
LFTAESLIGLKNPEK	ARCN1; ARCN1	P48444; B0YIW6	COPD_HUMA	Unmodified	655420	3670900	5842000	0	31123	0	0	0	0
LFTAHNNMTNYATVWASK	DHX9	Q08211	DHX9_HUMA	Oxidation (M);Deam	292220	365750	242970	0	0	0	0	0	0
LFTEEELAR	NENF	Q9UMX5	NENF_HUMA	Unmodified	19463000	18328000	17505000	478550	397620	496830	16318	13471	0
LFTEEELARYGGEEEDQPIYLAVK	NENF	Q9UMX5	NENF_HUMA	Unmodified	1458000	432360	1066200	0	0	0	0	0	0
LFTLTALR	QARS1; QARS1; QA	P47897; H7C0R3;	SYQ_HUMAN	Unmodified	1502400	916430	928110	28153	27772	26876	0	0	0
LFTPDVIR	ME2; ME2; ME2; ME	P23368; A0A1W2	MAOM_HUM	Unmodified	8710400	9895800	9338000	309170	312590	254450	23369	0	0
LFTTMELMR	PSMD12	O00232	PSD12_HUM	2 Oxidation (M)	971060	797430	1137900	0	0	0	0	0	0
LFTVPWPVK	FTO; FTO; FTO; FTO	Q9C0B1; A0A1B0	FTO_HUMAN	Unmodified	424120	517100	358410	0	0	0	0	0	0
LFTVVAWDPR	BPHL; BPHL; BPHL	Q86WA6; Q49AI2	BPHL_HUMA	Unmodified	883830	860880	1121800	0	0	0	0	0	0
LFVFDKTSQSWVER	RANBP3; RANBP3; I	Q9H6Z4; B7Z7F3	RANB3_HUM	Unmodified	776000	558660	830390	13977	10221	18569	0	0	0
LFVGEPVWTAYNRPADHFEAR	ADI1; ADI1; ADI1	Q9BV57; H7C382	MTND_HUM	Unmodified	2874200	0	2826100	0	0	0	0	0	0
LFVGGIKEDTEEHHLR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	17936000	8771400	4825700	116720	0	79453	0	0	0
LFVGGLDWSTTQETLR	DAZAP1; DAZAP1; I	Q96EP5; K7EK33	DAZP1_HUM	Unmodified	1428700	768990	1446600	0	0	0	0	0	0
LFVGNLPADITEDEFK	SFPQ	P23246	SFPQ_HUMA	Unmodified	1939400	1462500	1608700	0	0	0	0	0	0
LFVGNLPADITEDEFK	SFPQ	P23246	SFPQ_HUMA	Unmodified	26664000	27168000	31577000	0	0	14229	0	0	0
LFVGNLPADITEDEFKR	SFPQ	P23246	SFPQ_HUMA	Deamidation (N)	651360	0	604500	0	0	0	0	0	0
LFVGNLPADITEDEFKRLFAK	SFPQ	P23246	SFPQ_HUMA	Unmodified	794550	255940	963070	0	0	0	0	0	0
LFVGNLPPDITEEEMR	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Oxidation (M)	3742500	4090700	4784300	20848	0	8737.6	0	0	0
LFVGNLPPDITEEEMRK	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Oxidation (M)	1707200	1275300	968470	0	18388	0	0	0	0
LFVGNLPPDITEEEMRKLFEK	NONO; NONO; NON	Q15233; C9IZL7;	NONO_HUM	Oxidation (M)	1268400	915600	2211700	0	0	0	0	0	0
LFVGNLPTDITEEDFK	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Unmodified	0	548790	738350	0	0	0	0	0	0
LFVGNLPTDITEEDFKR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Unmodified	3876200	4430600	5030100	0	0	0	0	0	0
LFVLTTK	NUDCD1	Q96RS6	NUDC1_HUM	Unmodified	4246400	5353200	4861100	0	23350	39312	0	0	0
LFVPALDKPETDLLSHLDR	DUSP12; DUSP12; D	Q9UNI6; V9GYV	DUS12_HUM	Unmodified	1755000	0	2040200	0	0	0	0	0	0
LFVQDLATR	KIF5B	P33176	KINH_HUMA	Unmodified	5158200	4700500	3661700	0	0	0	0	0	0
LFVSGACDASAK	GNB1; GNB1	P62873; B3KVK2	GBB1_HUMA	Unmodified	6033800	6324700	6057700	382650	411660	463040	0	0	0
LFVTNDAATILR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	4881300	3826200	4068000	42678	60824	22351	0	0	0
LFVTNDAATILR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Deamidation (N)	3316900	3208100	6346000	38696	34143	33251	0	0	0
LFVTNDAATILRELEVQHPAAK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Deamidation (N)	2359700	3569000	3602100	0	0	0	0	0	0
LFVTNDAATILRELEVQHPAAK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	1958800	1185200	2666100	0	0	0	0	0	0
LFVTPPEGSSR	MAP7; MAP7	Q14244; A0A087	MAP7_HUM	Unmodified	1416700	0	1054400	34756	0	0	0	0	0
LFVVPADEAQAR	PLD3	Q8IV08	PLD3_HUMA	Unmodified	4699500	5656800	3645400	75377	66199	74127	0	0	0
LFVYDPNNPPSSEVLR	PON2; PON2	Q15165; A0A0J9	PON2_HUMA	Unmodified	531460	1029100	722300	0	0	19257	0	0	0
LFVADHPFIFLVR	SERPINH1; SERPIN	P50454; E9PKH2;	SERPH_HUM	Unmodified	1252300	624390	249980	0	0	0	0	0	0
LFVLALPPTVYEAVTK	G6PD; G6PD; G6PD;	P11413; E7EM57;	G6PD_HUMA	Unmodified	397770	225560	479570	0	0	0	0	0	0
LGAAAGFNYK	TP53I3; TP53I3	Q53FA7; H7BZH6	QORX_HUM	Unmodified	556350	659390	0	0	0	0	0	0	0
LGAAAGFNYKKEDFSEATLK	TP53I3; TP53I3	Q53FA7; H7BZH6	QORX_HUM	Deamidation (N)	0	443790	514530	0	0	0	0	0	0
LGAAPEEESAYVAGEK	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Unmodified	2418800	3113500	2787100	194950	185610	198620	0	45496	33576
LGAAPEEESAYVAGEKR	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Unmodified	13649000	13163000	10973000	587520	651370	0	0	0	0
LGADAVGMSTVPEVIVAR	PNP	P00491	PNPH_HUMA	Oxidation (M)	3644700	2966700	3123300	39783	41895	35479	0	0	13408
LGAFFLER	GINS3	Q9BRX5	PSF3_HUMA	Unmodified	4043500	3357800	3950700	20124	0	0	0	0	0
LGAFLWMQR	TCEAL2; TCEAL4; T	Q9H3H9; Q96EI5;	TCAL2_HUM	Oxidation (M)	1861200	1853100	2435100	14453	12173	0	0	0	0
LGAGPDGVEEIKR	RPS6KA3; RPS6KA3	P51812; B7ZB17;	KS6A3_HUM	Unmodified	887290	3250500	1644200	33466	0	21648	0	0	0
LGAGPGDAGEVQAHPFFR	RPS6KB1	P23443	KS6B1_HUM	Unmodified	987160	477260	618750	0	0	27358	0	0	0
LGAGPQGAQEVR	RPS6KA4; RPS6KA4	O75676; E9PJN1;	KS6A4_HUM	Unmodified	398990	510350	430780	0	0	72551	0	0	0
LGAGYPMGPFELLDYVGLDTTK	HADH; HADH; HAD	Q16836; A0A1W2	HCDH_HUM	Oxidation (M)	53614	0	24968	0	0	0	0	0	0
LGAIAKDPK	COL6A2; COL6A2	P12110; H7C0M5	CO6A2_HUM	Unmodified	623030	710410	744440	33110	49811	40862	19950	0	0
LGAIAKDPKSETGTR	COL6A2; COL6A2	P12110; H7C0M5	CO6A2_HUM	Unmodified	389490	0	564910	73302	93989	121230	52977	46817	39481
LGALALPR	SAMD1; SAMD1	Q6SPF0; E9PIW9	SAMD1_HUM	Unmodified	2417600	2703700	2588200	21126	24995	30978	0	0	0
LGANSLLDLVVFGR	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUM	Unmodified	244210	0	86795	0	0	0	0	0	0
LGAPAAGGEEEWGQQQR	HEXIM1	O94992	HEXI1_HUM	Unmodified	1917200	1314200	750280	0	34877	0	0	0	0
LGAPALTSR	SHMT2; SHMT2	P34897; H0YIZ0	GLYM_HUM	Unmodified	17733000	18506000	17664000	553220	544430	537200	173380	17884	0
LGAPENSGISTLER	FARP1; FARP1; FAR	Q9Y4F1; A0A1B0	FARP1_HUM	Deamidation (N)	0	712260	0	99950	88550	92962	0	0	0
LGAPQQPGPGPPPPSR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	2605200	0	3117000	315430	0	532410	0	0	0
LGAPQTHLGLK	EFHD1; EFHD2; EFH	Q9BUP0; Q96C19	EFHD1_HUM	Unmodified	717170	769950	651350	0	0	0	0	0	0
LGAPQTHLGLKNMIK	EFHD2; EFHD2	Q96C19; H0Y4Y4	EFHD2_HUM	Oxidation (M);Deam	0	0	1822600	0	0	0	0	0	0
LGAQALLGAAK	PYCR1; PYCR2; PYC	P32322; Q96C36;	P5CR1_HUM	Unmodified	2959900	2568100	2236000	0	0	0	0	0	0
LGAQTPVGVSTLEPGQTLLPR	FARP2; FARP2; FAR	O94887; C9JWM5	FARP2_HUM	Unmodified	5489400	4585600	5657000	56235	29074	0	0	0	0
LGASLAFNNIYR	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	3749000	2756900	2144800	0	0	0	0	0	0

LGAVDESLSEETQK	ERO1A; ERO1A; ERO	Q96HE7; G3V3E6	ERO1A	HUM	Unmodified	6939700	8340400	5346700	173790	128120	155750	0	0	0
LGAVFNQVAFPLQYTPR	SF3B3	Q15393	SF3B3	HUM	Deamidation (N)	737130	891270	914750	0	0	0	0	0	0
LGAVPATSGPTTFK	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512	HUM	Unmodified	2082000	1641900	1683700	75956	55731	72608	0	0	0
LGAVPATSGPTTFKQQR	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512	HUM	Unmodified	849670	455350	722270	196380	212920	182400	54488	47923	46033
LGAVYDVSHYNALLK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	2913500	2687700	2174100	10164	0	0	0	0	0
LGAVYDVSHYNALLK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
LGCPGFTLPEVKPNPVEGGASK	GCLC; GCLC; GCLC	P48506; A0A2R8	GSH1	HUM	Unmodified	2093500	3619100	1627500	100110	89145	59368	0	0	0
LGDAILSVNGTDLR	SNTB2; SNTB2; SNT	Q13425; A0A140	SNTB2	HUM	Unmodified	350420	1239500	423070	0	0	0	0	0	0
LGDALPEEIREPALR	NSL1; NSL1	Q96IY1; Q5SY74	NSL1	HUM	Unmodified	2378300	2117200	1642500	0	0	0	0	0	0
LGDFGLSR	PTK2B; PTK2; PTK2	Q14289; Q05397;	FAK2	HUM	Unmodified	1479500	0	1655200	28198	0	37546	0	0	0
LGDFPYVSILDPR	UBXN7; UBXN7	O94888; C9JAT7	UBXN7	HUM	Unmodified	411760	337620	294030	0	0	0	0	0	0
LGDKHATLQK	TRIM28; TRIM28	Q13263; M0R3C0	TIF1B	HUM	Unmodified	512450	309700	446960	0	0	0	0	0	0
LGDKILQVSFK	ELAVL1	Q15717	ELAV1	HUM	Unmodified	4784100	5142200	6228000	45643	46589	30875	0	0	0
LGDLVWGK	GLYR1; GLYR1; GL	Q49A26; K7EQB2	GLYR1	HUM	Unmodified	848320	543390	461680	0	0	0	0	0	0
LGDLYEEEMR	VIM; VIM	P08670; B0YJC4	VIME	HUM	Oxidation (M)	2572800	2636800	2963300	2855700	2513100	1825100	0	0	0
LGDLYEEEMRELR	VIM; VIM	P08670; B0YJC4	VIME	HUM	Oxidation (M)	15843000	14549000	11223000	6611000	5924000	5939500	388590	341310	416960
LGDLYEEEMRELRR	VIM; VIM	P08670; B0YJC4	VIME	HUM	Oxidation (M)	7557400	6974000	7076100	3496800	5362700	5284000	0	296640	635290
LGDSHDLQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	1125500	0	1150400	0	0	0	50184	0	0
LGDSQLVK	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Unmodified	5625400	4499100	5283300	292580	440990	0	0	0	0
LGDSSGPALKR	SEPTIN9	Q9UHD8	SEPT9	HUM	Unmodified	0	1054900	1305500	0	0	0	0	0	0
LGDSSLSR	EIF3A	Q14152	EIF3A	HUM	Unmodified	3353300	3958700	2860400	239470	260390	260420	0	0	0
LGDTPGVSYSDIAAR	VPS16; VPS16	Q9H269; Q5JUA9	VPS16	HUM	Unmodified	765510	0	806760	125090	0	93733	0	0	0
LGDTYPSISNAR	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB	HUM	Unmodified	949200	1109300	1083900	179990	197100	236960	0	0	0
LGDTYPSISNAR	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB	HUM	Deamidation (N)	0	0	0	190010	162990	0	0	0	0
LGDVISIQPCPDVK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	2873300	2280300	5291900	214050	181390	156760	0	0	0
LGDVISIQPCPDVKYGK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	235800	293090	260210	0	0	0	0	0	0
LGDVYVNDAFGTAHR	PGK1; PGK2	P00558; P07205	PGK1	HUM	Unmodified	74928000	52264000	50931000	404170	396810	0	82680	66743	49985
LGDVYVNDAFGTAHR	PGK1; PGK2	P00558; P07205	PGK1	HUM	Deamidation (N)	210730000	166110000	197610000	1453700	1307900	1415400	126010	106360	75887
LGEAEGLMKVEAAR	SLC38A10	Q9HBR0	S38AA	HUM	Oxidation (M)	564210	607910	529360	0	0	0	0	13878	0
LGEDLNKWQALLVQIRK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	0	1415300	2069200	0	0	0	0	0	0
LGEEAACRLPLDCGLALR	TSPYL5	Q86VY4	TSYL5	HUM	Unmodified	496190	397540	545620	0	0	0	0	0	0
LGEEQQR	IRF2BPL	Q9H1B7	I2BPL	HUM	Unmodified	698490	1114100	0	0	0	0	0	0	0
LGEFFQTK	EFTUD2; EFTUD2	Q15029; K7EP67	USS1	HUM	Unmodified	952960	1091700	0	0	0	20449	0	0	0
LGEFFQTKYDWDLLAAR	EFTUD2; EFTUD2	Q15029; K7EP67	USS1	HUM	Unmodified	448320	0	197810	0	0	0	0	0	0
LGEGEGSMTKEEFAK	SNX5; SNX5; SNX5	Q9Y5X3; Q5QPE4	SNX5	HUM	Oxidation (M)	953600	2947100	2025400	220820	0	136530	0	0	0
LGEGEGSMTKEEFTK	SNX6; SNX6; SNX6;	Q9UNH7; A0A0A	SNX6	HUM	Oxidation (M)	1780100	2502100	2715100	158470	221930	163740	0	0	0
LGEGGPDSDQAIRDR	FAM234A; FAM234A	Q9H0X4; H7C2U3	F234A	HUM	Unmodified	655250	479530	570100	25527	0	0	0	0	0
LGEINVIGEPFLNVNCEHIK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4	HUM	Unmodified	2004600	1939300	1835800	0	0	0	0	0	0
LGEINVIGEPFLNVNCEHIK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4	HUM	Deamidation (N)	0	0	1224400	0	0	0	0	0	0
LGEKDAHSQGEVVSCLEK	GLG1; GLG1; GLG1	Q92896; H3BQT1	GSLG1	HUM	Unmodified	0	0	1910400	0	0	0	0	0	0
LGEKLSDEEVDEMIR	CALML3	P27482	CALL3	HUM	Oxidation (M)	24466000	26488000	25252000	124970	121170	110120	0	0	0
LGEKLSDEEVDEMIR	CALML3	P27482	CALL3	HUM	Oxidation (M);Metl	2526100	1917000	1546900	0	0	0	0	0	0
LGEKLSDEEVDEMIRAADTDGDGQVNYEEFVR	CALML3	P27482	CALL3	HUM	Oxidation (M)	0	495070	1025300	0	0	0	0	0	0
LGELPLGALQASVVQHLLSR	PRR36	Q9H6K5	PRR36	HUM	Unmodified	704270	73046	443050	0	0	0	0	0	0
LGELTGTVK	TIMM44; TIMM44; T	O43615; M0QXU	TIM44	HUM	Unmodified	684670	970920	552370	0	0	0	0	0	0
LGEMWNNLNDSEKQPYITK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Oxidation (M);2 De	3321500	1950100	2094600	0	0	0	0	0	0
LGEMWNNTAADDKQPYEK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1	HUM	Oxidation (M);Deai	3156100	1917300	2592800	0	22083	16542	0	0	0
LGEMWNNTAADDKQPYEK	HMGB1; HMGB1	P09429; Q5T7C4	HMGB1	HUM	Oxidation (M);2 De	961760	1088300	1216700	0	0	0	0	0	0
LGEMWSEQSAK	HMGB2	P26583	HMGB2	HUM	Oxidation (M)	2849600	3268500	2439700	0	51380	51470	0	0	0
LGEMWSEQSAKDKQPYEQK	HMGB2	P26583	HMGB2	HUM	Oxidation (M)	1717100	1882400	0	0	0	0	0	0	0
LGEQMADLHLYNQK	FN3K	Q9H479	FN3K	HUM	Oxidation (M)	0	0	728990	37532	0	0	0	0	0
LGERNGSSLAK	H1-10	Q92522	H1X	HUM	Deamidation (N)	5216700	3204900	4306600	0	0	0	0	0	0
LGESANAAK	SFXN1	Q9H9B4	SFXN1	HUM	Unmodified	0	0	1244500	108430	12974	0	0	0	0
LGESQTLQQFSR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	3579600	3600800	3662100	356010	278190	317570	0	0	0
LGETDEEKLFVETGK	MRPS23; MRPS23	Q9Y3D9; J3QLR8	RT23	HUM	Unmodified	1459400	1410200	1476000	0	0	0	0	0	0
LGETYKDHENIVIAK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	16840000	15946000	14573000	71791	394570	68227	0	0	0
LGEVVNTHGPVEPDKDNIR	NMT1; NMT1; NMT	P30419; A0A7I2V	NMT1	HUM	Deamidation (N)	1403700	1723200	857520	0	0	0	0	0	0
LGEWDLPEAVQR	TARS2; TARS2; TAR	Q9BW92; F6S7Q7	SYTM	HUM	Unmodified	1061400	945580	1134000	26302	0	22708	0	0	0
LGEWVGLCK	RPS12	P25398	RS12	HUM	Unmodified	1804200	1841900	1393400	23869	0	0	0	0	0
LGEYEDVSR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	7129400	7510700	6811900	206850	171880	199730	0	0	0
LGEYEDVSRVEK	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	10418000	10513000	5918700	246620	249920	272200	0	0	0
LGEYEDVSRVEKYTISQEAYDQRQDTVR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	0	2943800	4753600	0	0	0	0	0	0
LGFAGLVQEISFGTTK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUM	Unmodified	3145600	946170	2688300	0	0	0	0	0	0
LGFAGLVQEISFGTTKDK	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUM	Unmodified	0	1279800	1008200	0	0	0	0	0	0
LGFATSSDVIEMKGR	MTREX	P42285	MTREX	HUM	Oxidation (M)	532920	1416100	595360	15952	43909	0	0	0	0
LGFDKENVYDELR	SMARCA5	O60264	SMCA5	HUM	Unmodified	742440	724160	602170	0	0	0	0	0	0
LGFEDGSVLK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Unmodified	5562900	8720800	8744600	0	0	0	0	0	0
LGFEDGSVLKQFLSETEK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Unmodified	223030	162240	0	0	0	0	0	0	0
LGFEEFK	CAPNS2; CAPNS1; C	Q96L46; P04632;	CPNS2	HUM	Unmodified	1383200	1658400	1594100	16898	0	15157	0	0	0
LGFEGGQTPFYIR	MRPL15; MRPL15	Q9P015; E5RHF4	RM15	HUM	Unmodified	5368700	3969200	3867800	42590	44983	28722	0	0	0
LGFEGGQTPFYIRIPK	MRPL15; MRPL15	Q9P015; E5RHF4	RM15	HUM	Unmodified	1616000	1124200	1209400	0	0	0	0	0	0
LGFGSFVDKDISPFSYTAPR	ITGB5; ITGB5; ITGB	P18084; V9GZ57;	ITB5	HUM	Unmodified	640780	924000	0	0	0	0	0	0	0
LGFGSFVEK	ITGB6; ITGB6; ITGB	P18564; A0A087	ITB6	HUM	Unmodified	18154000	13892000	14789000	148170	127110	221100	48349	36705	0
LGFHLPLEVAYQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	14461000	10907000	14751000	77731	37911	22802	99412	37489	56596
LGFMSAFVK	DLST; DLST	P36957; Q86SW4	ODO2	HUM	Oxidation (M)	9953000	7081700	16948000	49611	33517	55170	0	0	7796.4
LGFSEVELVQMVVDGVK	CKB; CKB	P12277; H0YJG0	KCRB	HUM	Oxidation (M)	10950000	5575200	8769600	0	0	0	0	0	0
LGFSLTPSK	COIL	P38432	COIL	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LGFVAGVINR	ATP6V0A1; ATP6V0	Q93050; K7EN36;	VPP1	HUM	Unmodified	993070	746530	968100	0	0	0	0	0	0
LGFVAGVINRER	ATP6V0A1; ATP6V0	Q93050; K7EN36;	VPP1	HUM	Deamidation (N)	609730	345390	543210	0	0	0	0	0	0
LGGAGMER	HNRNPM; HNRNPM	P52272; M0QZM1	HNRPM	HUM	Oxidation (M)	27715000	27601000	29577000	1930100	1409300	0	167110	27969	25773
LGGAPAAQGVSPSPSAILER	SRCIN1; SRCIN1; SR	Q9C0H9; A0A087	SRCN1	HUM	Unmodified	416770	0	0	59572	58498	0	0	0	0
LGGDLGTYVINK	FXN; FXN; N/A	Q16595; C9JAX1;	FRDA	HUM	Unmodified	37283000	30546000	55254000	452890	433680	514920	25904	20013	15575
LGGEILDYRDLAALPK	ABLIM2; ABLIM2; A	Q6H8Q1; A0A7I2	ABLM2	HUM	Unmodified	383660	378810	292690	0	0	0	0	0	0
LGGHGPSFPLK	XRCC5	P13010	XRCC5	HUM	Unmodified	2387200	960650	2701800	0	0	30426	0	0	0
LGGHGPSFPLKGITEQQKEGLEIVK	XRCC5	P13010	XRCC5	HUM	Unmodified	3872300	3759700	3659900	0	0	0	0	0	0
LGGIGQFLAK	DHX9	Q08211	DHX9	HUM	Unmodified	25783000	23674000	24803000	131600	133380	125220	0	0	22671
LGGIPVGVVAVETR	ACACA; ACACA	Q13085; Q59FY4	ACACA	HUM	Unmodified	614330	941120	815480	65500	0	0	0	0	38791
LGGLMDPR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUM	Oxidation (M)	1945800	1569900	461630	98850	258660	293850	0	0	0
LGGNPGTNSR	SMARCE1; SMARCI	Q969G3; J3QL66;	SMCE1	HUM	Unmodified	0	0	239770	0	0	0	0	0	0
LGGNRPTNNRGQPR	STARD9	Q9P2P6	STAR9	HUM	3 Methyl (KR);2 D	496180	652450	605340	0	0	0	0	0	0
LGGPEAGLGEYLFER	FTL	P02792	FRIL	HUM	Unmodified	68364000	78120000	76366000	446500	213280	129580	152580	43553	84564
LGGPEAGLGEYLFERLTLKHD	FTL	P02792	FRIL	HUM	Unmodified	1161800	0	302090	0	0	0	0	0	0
LGGQAVGTR	LAMA5	O15230	LAMA5	HUM	Unmodified	417830	377720	0	288210	149120	250980	36700	55788	37337
LGGSAVISLEGKPL	CFL1; CFL1; CFL1	P23528; G3V1A4;	COF1	HUM	Unmodified	21705000	18118000	20632000	299270	234390	155680	375960	170790	211220
LGGSLADSYLDEGFLLDKK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Unmodified	1665500	1705700	1639300	0	0	0	0	0	0
LGGSPFGPAGTGK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	2089700	1547600	2087900	100120	107410	148470	0	0	0
LGGSPFGPAGTGKTESVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	3780100	3055800	3705100	156080	146290	162330	20455	0	0
LGGSPTSLGTWGSWIGPDHDKFSAMK	PRKCSH; PRKCSH;	P14314; K7ELL7;	GLU2B	HUM	Oxidation (M)	0	1845200	1778600	0	0	0	0	0	0
LGGTIDDCELVEGLVLTQK	CCT4	P50991	TCPD	HUM	Unmodified	1341700	0	910830	0	0	0	0	0	0
LGGVSSTEELDIR	RNF20; RNF20; RNF	Q5VTR2; C9JWJ4	BRE1A	HUM	Unmodified	0	0	1110200	0	0	0	0	0	0
LGHAEQKDEMVPR	RCC2	Q9P258	RCC2	HUM	Oxidation (M)	7842700	8841200	0	0	0	0	0	98932	0
LGHAETDEQLQNIISK	ECPAS; ECPAS; ECI	Q5VYK3; R4GMV	ECM29	HUM	Unmodified	0	332250	662660	27196	14109	0	0	0	0
LGHELQQAGLK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1002300	1238200	1324700	65951	107700	0	0	0	0
LGHGEEELETEKDFSR	AQR	O60306	AQR	HUM	Unmodified	1166900	1489600	902040	0	0	0	0	0	0
LGHGLLSGEYSKPVPESGDGER	USP5	P45974	UBP5	HUM	Unmodified	1053700	1692500	1187300	0	0	0	0	0	0
LGHGLLSGEYSKPVPESGDGERVPEQKEVQDGIAPR	USP5	P45974	UBP5	HUM	Unmodified	0	1737200	1030600	0	0	0	0	0	0
LGHPDTLNQGEFK	S100A9	P06702	S10A9	HUM	Unmodified	0	2078000	1481700	245270	209450	254980	364560	0	358170
LGHPEALSAGTGSPQPPSFTYAQQR	ZYX; ZYX; ZYX	Q15942; H0Y2Y8	ZYX	HUM	Unmodified	2668400	3433800	1676800	427170	349540	346490	0	194360	91934
LGHVVMGNNAVSPVQQVIEK	EIF3E; EIF3E; EIF3E	P60228; B3KW56	EIF3E	HUM	Oxidation (M);2 De	6331500	5624300	8043300	0	0	0	0	0	0
LGHVVMGNNAVSPVQQVIEK	EIF3E; EIF3E; EIF3E	P60228; B3KW56	EIF3E	HUM	Oxidation (M);Deai	2510100	944550	3372900	0	17263	0	0	0	0
LGIEGLSLHNVLK	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	2089500	1713700	1599000	0	0	0	0	0	0
LGIEKTDPTTLTDEEINR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	4350800	2951500	3382000	0	0	0	0	0	0
LGIEKTDPTTLTDEEINRFAR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	4641500	6285700	5807000	0	0	0	0	0	0
LGIFGDTEDVAGK	ATP2A3	Q93084	AT2A3	HUM	Unmodified	0	1006500	0	0	0	0	0	0	0
LGIGMDTCVIPLR	SEPHS1; SEPHS1	P49903; Q5T5U6	SPS1	HUM	Oxidation (M)	2844100	1905100	2710700	80817	80096	62206	0	20064	19244
LGIHEDSQNR	HSP90AA1	P07900	HS90A	HUM	Unmodified	6153000	578180	693350	0	0	0	0	75588	0
LGIHEDSQNRKK	HSP90AA1	P07900	HS90A	HUM	Unmodified	726890	0	641030	11058	0	0	0	0	0
LGIHEDSQNRKK	HSP90AA1	P07900	HS90A	HUM	Deamidation (N)	231230	229830	212370	0	0	0	0	0	0
LGIHEDSTNR	HSP90AB1	P08238	HS90B	HUM	Unmodified	12604000	12098000	14111000	95321	87714	197750	0	0	0
LGIHEDSTNR	HSP90AB1	P08238	HS90B	HUM	Deamidation (N)	0	312600	1262100	0	0	0	0	0	0
LGIHSALLDEKKDQDSK	GLRX5	Q86SX6	GLRX5	HUM	Unmodified	5736600	4940600	8200900	0	0	79408	0	0	0
LGIIGVVNR	DNM1L; DNM1L	O00429; F8VZ52	DNM1L	HUM	Unmodified	3831400	4256900	4043200	0	0	24122	0	0	0
LGIIGVVNR	DNM1L; DNM1L	O00429; F8VZ52	DNM1L	HUM	Deamidation (N)	606250	399460	377260	0	0	0	0	0	0
LGILDKVVNSDPVEEAIR	EHHADH	Q08426	ECHP	HUM	Deamidation (N)	333420	325260	338220	0	0	0	0	0	0
LGINKTDPSTLTEEEVSK	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM	HUM	Unmodified	896740	755810	493220	0	0	0	0	0	0
LGINKTDPSTLTEEEVSKFAR	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM	HUM	Unmodified	701750	0	560870	0	0	0	0	0	0
LGINLLGGPLGGK	NEK9; NEK9; NEK9	Q8TD19; A0A7I2	NEK9	HUM	Unmodified	395650	504100	663330	19679	0	0	0	0	0
LGINSLQELK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52	HUM	Deamidation (N)	3838600	3239200	4789200	0	0	18528	0	0	0
LGINSLQELK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52	HUM	Unmodified	1661700	1555000	1581500	0	0	0	0	0	0
LGINSLQELKQNIAK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52	HUM	Unmodified	1775200	0	0	0	0	0	0	0	0
LGISSLIR	AGL	P35573	GDE	HUM	Unmodified	1539700	1694300	1984400	73155	0	77381	13750	14243	13086
LGITHVLNAAEGR	DUSP3; DUSP3	P51452; K7ES89	DUS3	HUM	Deamidation (N)	677600	1117900	1015500	0	48328	63104	0	0	0

LGITHVLNAAEGR	DUSP3; DUSP3	P51452; K7ES89	DUS3	HUMA	Unmodified	2833800	2518000	2957000	0	0	42077	0	0	0
LGIYEAMK	DSP	P15924	DESP	HUMA	Oxidation (M)	3380300	3170400	3683900	0	78923	0	0	0	0
LGKDAVEDLESVGK	DCD	P81605	DCD	HUMA	Unmodified	8372900	11390000	10911000	1405100	948830	742830	43811	62293	55178
LGKILKLNRNGHAR	KDM7A	Q6ZMT4	KDM7A	HUM	4 Methyl (KR)	1350800	0	0	0	0	0	0	0	0
LGKPGLGGSSGLAGAWLK	MGMT; MGMT	P16455; B4DEE8	MGMT	HUM	Unmodified	0	1302000	0	0	19616	0	0	0	0
LGLAAAAAAAAAELYGR	ZIC5	Q96T25	ZIC5	HUMA	Unmodified	0	148640	280890	0	0	0	0	0	0
LGLDILEVVPISK	DHX40; DHX40	Q8IX18; F5H625	DHX40	HUM	Unmodified	621490	353130	505100	0	0	0	0	0	0
LGLDILEVVPISKSEALQR	DHX40; DHX40	Q8IX18; F5H625	DHX40	HUM	Unmodified	338600	240860	449140	0	0	0	0	0	0
LGLDKAVLQDINR	CHD6	Q8TD26	CHD6	HUMA	Methyl (KR)	334870	421930	449080	0	0	0	0	0	0
LGLDYEER	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2	HUMA	Unmodified	7118100	7673400	8688200	465140	496780	567250	0	0	0
LGLEALAANHQQLFTDGR	YARS2; YARS2	Q9Y2Z4; H0YHS6	SYYM	HUM	Unmodified	622600	761060	577790	0	0	0	0	0	0
LGLEFFDQPAVPLAR	MPG; MPG	P29372; A2IDA3	3MG	HUMA	Unmodified	3184400	3184700	3159700	0	0	0	0	0	0
LGLENAEALIR	RO60	P10155	RO60	HUMA	Unmodified	5460500	4479700	3887600	75502	30194	51221	0	0	0
LGLFPSNFVK	CD2AP	Q9Y5K6	CD2AP	HUM	Unmodified	2963300	2658800	1867200	0	0	0	0	0	0
LGLFPSNFVK	CD2AP	Q9Y5K6	CD2AP	HUM	Deamidation (N)	467920	449180	381230	0	0	0	0	0	0
LGLGEGAEEK	RCC1; RCC1	P18754; C9JW69	RCC1	HUMA	Unmodified	7108700	7240300	6743000	351740	379880	399010	0	0	0
LGLGEGAEEKSIPTLISR	RCC1; RCC1	P18754; C9JW69	RCC1	HUMA	Unmodified	1206700	924950	1124400	32783	0	0	0	0	0
LGLGGNAPVSIPQQSQSVK	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSR	HSP90AA1	P07900	HS90A	HUM	Oxidation (M)	0	2543500	3503800	0	0	0	0	0	0
LGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD	HSP90AA1	P07900	HS90A	HUM	2 Oxidation (M)	13260000	4251100	9897400	0	0	0	0	0	0
LGLHQQGSEPSYLDR	WDR18; WDR18; WI	Q9BV38; U3KQC	WDR18	HUM	Unmodified	1997400	1473200	1999900	0	0	31715	0	0	0
LGLIPIHADPR	POLR1C; POLR1C; F	O15160; A0A2R8	RPAC1	HUM	Unmodified	0	2415700	1270100	33172	0	0	0	0	0
LGLIPLISDDIVDKLQYSR	POLR2C	P19387	RPB3	HUMA	Unmodified	457020	64838	164820	0	0	0	0	0	0
LGLLDNHSSEFNVTR	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Unmodified	1151500	644740	732050	0	0	0	0	0	0
LGLLDNHSSEFNVTR	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Deamidation (N)	1343200	830750	1529800	0	0	0	7986.8	0	0
LGLLEALLK	THOC2; THOC2	Q8NI27; A0A0C4	THOC2	HUM	Unmodified	351160	308670	267210	0	0	0	0	0	0
LGLLGALMAEDGVR	SENP3; SENP3-EIF4	Q9H4L4; A0A087	SENP3	HUM	Oxidation (M)	1144600	764320	930660	0	0	0	0	0	0
LGLLGDSVDIFK	CEL	P19835	CEL	HUMA	Unmodified	2408400	2171100	674220	0	0	0	0	0	0
LGLLGDSVDIFKGIPFAAPTK	CEL	P19835	CEL	HUMA	Unmodified	159150	141630	256980	0	0	0	0	0	0
LGLLGDSVDIFKGIPFAAPTK	CEL	P19835	CEL	HUMA	Methyl (KR)	145540	75063	97421	0	0	0	0	0	0
LGLLGLANSLAIEGR	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUMA	Deamidation (N)	1147400	764170	0	0	0	0	0	0	0
LGLLGLANSLAIEGR	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUMA	Unmodified	290370	0	187250	0	0	0	0	0	0
LGLLGLANSLAIEGRK	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUMA	Unmodified	683640	370890	755990	0	0	0	0	0	0
LGLLGLANSLAIEGRK	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUMA	Deamidation (N)	894280	1112600	1057100	0	0	0	0	0	0
LGLLGLPAPK	CDC5L	Q99459	CDC5L	HUM	Unmodified	4921200	4158500	4406400	136370	172970	112670	0	12817	0
LGLLGLPAPKNDFEIVLPENAEK	CDC5L	Q99459	CDC5L	HUM	Deamidation (N)	224910	258890	158590	0	0	0	0	0	0
LGLMPPPEPK	PRPF3	O43395	PRPF3	HUM	Oxidation (M)	1924200	0	2548200	143950	0	151270	0	0	0
LGLMRDDTIYEDEDVKEAIR	UQCRB; UQCRB	P14927; B7Z2R2	QCR7	HUMA	Oxidation (M)	11119000	11036000	12495000	0	13307	0	0	0	0
LGLNMMDNR	N/A	N/A	N/A		2 Oxidation (M)	2539400	1308800	1040100	0	53797	97956	0	0	0
LGLPGDEVDNK	PRKDC	P78527	PRKDC	HUM	Unmodified	2373100	2597000	2146100	0	0	0	0	0	0
LGLPGDEVDNKVK	PRKDC	P78527	PRKDC	HUM	Unmodified	6806200	7016000	5833400	177750	274440	253400	0	0	0
LGLPGDEVDNKVK	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	1111200	1598800	1404000	0	70278	0	0	0	0
LGLPLLLMPEEAR	TSEN34; TSEN34; T	Q9BSV6; E7EQB	SEN34	HUM	Oxidation (M)	1233400	1057800	1306500	0	0	0	0	0	0
LGLPPLTPEQQEALQK	PUF60; PUF60; PUF	Q9UHX1; E9PMU	PUF60	HUM	Unmodified	177840000	158460000	172260000	545570	50065	0	0	0	0
LGLQHLR	ARF5; ARF5	P84085; C9J1Z8	ARF5	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LGLQNDLFSLAR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA	HUMAN	Unmodified	2519700	3670500	2163700	0	0	0	13705	8305.3	0
LGLQNDLFSLAR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA	HUMAN	Deamidation (N)	4019400	3508900	3489600	0	0	0	0	0	0
LGLQYMELIPK	LMCD1; LMCD1; LN	Q9NZU5; H7C3D	LMCD1	HUM	Oxidation (M)	2225400	1958900	1955900	0	12884	11030	0	0	0
LGLSIPDLTPK	TMEM65	Q6PI78	TMM65	HUM	Unmodified	389540	340740	710060	0	0	0	0	0	0
LGLSLVVPGGGIK	NAPG	Q99747	SNAG	HUMA	Unmodified	741240	393670	465860	0	0	0	0	0	0
LGLSLVVPGGGIKK	NAPG	Q99747	SNAG	HUMA	Unmodified	543610	639380	764000	0	10173	0	0	0	0
LGLSTLGELK	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Unmodified	806700	702810	944910	0	0	0	0	0	0
LGLSTLGELKQNLSR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Unmodified	6265800	5926300	6835800	0	0	0	0	0	0
LGLTEDQFIR	POLD1; POLD1; POI	P28340; A0A2R8	DPOD1	HUM	Unmodified	2727700	2886100	1436900	0	32923	31143	0	0	0
LGLTEDQFIRTPTGDEFVK	POLD1; POLD1; POI	P28340; A0A2R8	DPOD1	HUM	Unmodified	885910	546510	826620	0	0	0	0	0	0
LGLTEIR	PRPF31; PRPF31	Q8WWY3; E7EV7	PRP31	HUM	Unmodified	930400	1663200	1623800	86699	125600	0	0	0	0
LGLTMQYPEGYLEALANR	UHRF1; UHRF1; UH	Q96T88; A0A087	UHRF1	HUM	Oxidation (M)	1538600	0	1537500	0	0	0	0	0	0
LGMFNIQHCK	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA	Oxidation (M)	993490	1048100	1064100	64514	166660	0	0	0	0
LGMGLVSR	ARFGAP2; ARFGAP	Q8N6H7; E9PIY6;	ARFG2	HUM	Oxidation (M)	3707400	2953400	0	0	273250	257960	0	0	0
LGMIAGGTGITPMLQLIR	CYB5R1; CYB5R2; (	Q9UHQ9; Q6BCY	NB5R1	HUM	2 Oxidation (M)	2074300	1967100	1019100	0	0	0	0	0	0
LGMLSPEGTCK	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Oxidation (M)	1068500	0	0	73415	84767	122880	0	0	0
LGMPQFLSTEAQSLLR	RPS6KA1; RPS6KA1	Q15418; E9PGT3	KS6A1	HUM	Oxidation (M)	1850300	1116300	1709900	0	0	0	0	0	0
LGMSQIPQKDLLETVR	UTRN	P46939	UTRN	HUM	Oxidation (M)	2178300	1798800	1935900	58273	71364	56035	0	0	0
LGNDFMGITLASSQAVSNAR	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4	HUM	Oxidation (M);Deai	1040700	0	865220	0	0	0	0	0	0
LGNFFSPK	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1	HUM	Unmodified	2612100	1924400	1679400	66492	60313	73798	0	15198	0
LGNGSGAGGILDLLK	PHF8; PHF8; PHF8	Q9UPP1; H0Y589	PHF8	HUMA	Deamidation (N)	1463700	1427300	1664000	0	0	0	0	0	0
LGNIEFKPESR	MYO1B; MYO1B; M	O43795; E9PDF6;	MYO1B	HUM	Unmodified	1185200	1533000	1687000	32287	27575	0	0	0	0
LGNINAKASQAGQTALMLAVSHGR	KANK2; KANK2	Q63ZY3; K7EIU4	KANK2	HUM	Oxidation (M);2 De	2619600	1430800	2477200	0	0	0	0	0	0
LGNLKNGINDIKK	PRKG2; PRKG2	Q13237; B7ZA25	KGP2	HUMA	Methyl (KR);Deam	494740	524370	715910	103760	0	0	0	0	0
LGNPEIAR	CDKN2C	P42773	CDN2C	HUM	Unmodified	1077400	1083800	1135200	0	0	0	0	0	0
LGNPTRSEDLLDYGPFR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	2321600	2480400	2418100	0	0	0	0	0	0
LGNSHQPEKPLVR	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Deamidation (N)	524420	482640	506270	0	0	0	0	0	0
LGNYAGAVQDCER	SGTA; SGTA; SGTA;	O43765; K7EMD6	SGTA	HUMA	Unmodified	496240	0	886700	36031	0	0	0	0	0
LGPASAADTGSEAKPGALAEGAAEPEPQR	TERF2IP; TERF2IP	Q9NYB0; A0A59(	TE2IP	HUMA	Unmodified	2362900	2173200	1905400	101310	0	0	0	0	0
LGPETGLLFPR	MARS2	Q96GW9	SYMM	HUM	Unmodified	1239900	1289700	1068500	42540	41436	45891	0	0	0
LGPGGLDDRYSLVSEQLEPAATSTYR	PKP3; PKP3; PKP3; I	Q9Y446; E9PK71	PKP3	HUMA	Unmodified	4365700	4587600	4516100	0	0	0	0	0	0
LGPGGLDPVEVYESLPEELQK	CDC37; CDC37; CDC	Q16543; K7EQA9	CDC37	HUM	Unmodified	4334700	2716800	5933300	0	0	0	0	0	0
LGPGMADICK	PSAP; PSAP; PSAP	P07602; A0A0J9	SAP	HUMAN	Oxidation (M)	2939600	3219700	2533500	0	0	0	0	0	0
LGPLQVAR	ETFB	P38117	ETFB	HUMA	Unmodified	6033400	6911800	6644100	93684	103250	110160	0	0	0
LGPPGLPPLPGPK	SF1	A0A7P0T9U7	A0A7P0T9U7		Unmodified	3780100	2908100	2105000	103620	123010	115890	14456	0	0
LGPQASSQVVMPPLVR	GATAD2A	Q86YP4	P66A	HUMA	Oxidation (M)	1075900	1662100	0	38746	41025	0	0	0	0
LGPSDYFGEIALLMNRPR	PRKAR1A	P10644	KAP0	HUMA	Oxidation (M)	24390000	17086000	23684000	0	0	0	0	0	0
LGPSVVGLAR	PDCD11; PDCD11	Q14690; A0A3B3	RRP5	HUMA	Unmodified	0	1863900	2193400	0	37027	34194	0	0	0
LGPTETETSEHIAIR	SYNM	O15061	SYNEM	HUM	Unmodified	0	0	0	0	0	0	0	0	134740
LGPTLQGK	AGL	P35573	GDE	HUMA	Unmodified	1149600	1120100	0	0	0	0	0	0	0
LGQALTEVYAK	HDLBP; HDLBP; HD	O00341; A0A024	VIGLN	HUM	Unmodified	1678700	1245000	1470700	33518	35808	0	0	0	0
LGQDPYR	SON	P18583	SON	HUMA	Unmodified	1597000	5901700	1355500	310970	0	100140	0	0	0
LGQEATVGK	ACLY; ACLY	P53396; K7ESG8	ACLY	HUMA	Unmodified	4442100	4507200	4238700	329470	336550	344460	0	256230	51292
LGQEQQTLNR	CGN	Q9P2M7	CING	HUMA	Unmodified	559260	488870	392470	320870	303470	263010	0	0	0
LGQHVVGMAPLSVGSLDDEPGGEAETK	TSFM	P43897	EFTS	HUMA	Oxidation (M)	5575800	5236600	4287700	0	54046	0	0	0	0
LGQMIVDYENPLKK	NCKAP1	Q9Y2A7	NCKP1	HUM	Oxidation (M)	1571000	1617200	2011900	111160	105860	100700	0	10905	11563
LGQPPGVR	PPP6R1	Q9UPN7	PP6R1	HUM	Unmodified	1251300	1046900	1110700	182530	204420	0	0	0	0
LGQSDPAPLQHQMDIYQK	TKT; TKT; TKT	P29401; A0A0B4	TKT	HUMAN	Oxidation (M)	4762900	3471500	3529200	87022	136450	108780	0	23206	17069
LGQSDPAPLQHQMDIYQKR	TKT; TKT; TKT	P29401; A0A0B4	TKT	HUMAN	Oxidation (M)	1746100	1646900	944280	0	0	91304	0	0	0
LGQSESQGPPR	PSMD9; PSMD9; PSI	O00233; F5H169;	PSMD9	HUM	Unmodified	1100400	1353600	1273500	0	0	0	0	0	0
LGQVASSLFR	RBM34; RBM34; RB	P42696; A2A2V2	RBM34	HUM	Unmodified	2658100	3288200	2847000	0	0	16032	0	0	0
LGRYNEEERAQQEAEAAQR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	6127000	4627500	3344100	0	0	0	0	0	0
LGSAMIGGFAGR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2	HUM	Oxidation (M)	4182600	3702000	3893900	160700	298610	297340	0	0	22559
LGSFGSITR	FLNC	Q14315	FLNC	HUMA	Unmodified	0	0	0	0	0	0	193670	200540	184510
LGSGPDGAEEIKR	RPS6KA1; RPS6KA1	Q15418; E9PGT3	KS6A1	HUM	Unmodified	4438600	4315000	3242400	0	54050	22448	0	0	0
LGSHNEFNARAEDFVER	N/A	N/A	N/A		2 Deamidation (N)	1505000	2228300	1507500	0	0	0	0	0	0
LGSIAEIDLGVPPPVMK	SRRT; SRRT; SRRT	Q9BXP5; A0A286	SRRT	HUMA	Oxidation (M)	1218000	807790	1002100	0	0	0	0	0	0
LGSLVDEFK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	5337900	6259600	4059500	89848	85519	37304	0	0	0
LGSLVDEFKELVYPPDYNPEGK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	8457200	6593000	8153000	0	0	0	0	0	0
LGSLVDEFKELVYPPDYNPEGKVTK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	3113800	3273600	2816500	0	0	0	0	0	0
LGSLVENNER	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM	Deamidation (N)	657280	1021900	747470	0	0	0	0	0	0
LGSPDYGNSALLSLPGYRPTTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1866100	1480700	1895900	74711	61099	0	43066	22037	33564
LGSPDYGNSALLSLPGYRPTTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Deamidation (N)	20289000	18279000	18570000	397770	300810	87673	335300	46898	54753
LGSQIFVK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	2496400	2624200	2487800	64487	76899	84400	0	0	0
LGSQIFVKEMTR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Oxidation (M)	1103900	580910	791500	69474	68399	61471	0	0	0
LGSRLYGPSSVSFADDFVR	SERPINH1; SERPIN/	P50454; E9PK86;	SERPH	HUM	Unmodified	932850	779270	849810	0	0	0	0	0	0
LGSSERDAEDVKKQPFFR	PKN1; PKN1	Q16512; K7ES10	PKN1	HUMA	Methyl (KR)	4013000	0	0	0	0	0	0	0	0
LGSSGLGSASSIQAAVR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUM	Unmodified	6382100	8089100	6450000	0	238130	55683	0	0	0
LGSTAPQVLSTSSPAQQAENEAK	NSFL1C	Q9UNZ2	NSF1C	HUM	Unmodified	5814500	5745800	5296500	503290	415600	608040	0	0	0
LGSTAPQVLSTSSPAQQAENEAK	NSFL1C	Q9UNZ2	NSF1C	HUM	Deamidation (N)	948580	1056600	1253900	0	0	0	0	0	0
LGSTEVASNVPK	YTHDF2; YTHDF2	Q9Y5A9; S4R3V3	YTHD2	HUM	Unmodified	4374100	4566200	3704100	104020	202760	129130	0	0	0
LGSTVFVANLDYK	HNRNPM; HNRNPM	P52272; M0R270	HNRPM	HUM	Unmodified	2510500	2754300	2057500	56403	0	50844	21418	21764	27172
LGSVSLIPLR	ARAP1; ARAP1; AR	Q96P48; A0A0A0	ARAP1	HUM	Unmodified	963490	0	861370	0	0	0	0	0	0
LGSVSGPTSVSR	PANK2; PANK2; PAI	Q9BZ23; V9GYZ(	PANK2	HUM	Unmodified	888960	1487200	1421100	0	0	0	0	0	0
LGTDDTVMK	SCGN	O76038	SEGN	HUMA	Oxidation (M)	581570	464540	744300	0	42501	41525	0	0	16764
LGTDEISPR	MYO1C; MYO1C	O00159; F5H6E2	MYO1C	HUM	Unmodified	4822800	3919500	3780700	304680	314960	424230	0	0	0
LGTDESCFNMILATR	ANXA7	P20073	ANXA7	HUM	Oxidation (M)	3333200	3925500	6150300	186100	136610	0	0	62646	76353
LGTDQPLDQATISLQMGTNK	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1	HUMA	Oxidation (M)	0	0	0	0	0	0	600050	453970	0
LGTDQPLDQATISLQMGTNKGASQAGMTAPGTKR	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1	HUMA	2 Oxidation (M);De	0	0	0	0	0	0	600680	169640	401710
LGTGFSDEELEEHHQSLK	LIG1; LIG1	P18858; F5GZ28	DNLI1	HUM	Unmodified	1444300	1025000	1533600	0	0	0	0	0	0
LGTLSPAFSTR	SND1	Q7KZF4	SND1	HUM	Unmodified	24226000	8568900	24156000	1247100	1268400	1174800	0	151380	0
LGTPALTSR	SHMT1	P34896	GLYC	HUM	Unmodified	10870000	8177200	8905300	278760	322870	410410	37729	0	0
LGTPQQIAIAR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Unmodified	6409200	4865500	5674100	296250	280480	267060	0	0	0
LGTPVLQALGDGDFVK	PCK2; PCK2; PCK2;	Q16822; H0YM31	PCKGM	HUM	Unmodified	572810	0	408560	0	0	0	0	0	8080.6
LGTQEYLQQLESHMK	EDC4; EDC4	Q6P2E9; I3L2F4	EDC4	HUMA	Oxidation (M)	769050	1164700	719610	0	0	0	0	0	0
LGTQQLIPK	ARHGEF16	Q5VV41	ARHGG	HUM	Unmodified	803100	788740	680410	43464	0	0	0	0	0
LGTVPQFPR	HSPG2	P98160	PGBM	HUM	Unmodified	2189300	2316300	1793000	2280300	2060000	2351400	146890	499100	169620

LGVAGQWR	UCHL1; UCHL1; UC	P09936; D6RF53;	UCHL1	HUM	Unmodified	27773000	24383000	27251000	76702	64714	78443	0	0	0
LGVDISATK	FARSB	Q9NSD9	SYFB	HUMA	Unmodified	686780	512410	639570	0	0	0	0	0	0
LGVEMGKVQVYQEPNRETR	PRPSAP2; PRPSAP2	O60256; E7EPA1;	KPRB	HUMA	Oxidation (M)	1686300	1467800	0	43625	0	0	0	0	0
LGVEQLR	PTPMT1	Q8WUK0	PTPM1	HUM	Unmodified	0	601270	596530	0	39599	0	0	0	0
LGVFRAESEEGPDVLR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B	HUM	Unmodified	386310	401440	427730	0	0	0	0	0	0
LGVIEDHSNR	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL	HUM	Unmodified	4565300	3727100	4665000	106110	83122	0	0	0	0
LGVIEDHSNRTR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	9264900	8514400	10124000	425460	432750	397100	0	0	25266
LGVIEDHSNRTR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUMA	Deamidation (N)	0	1038400	1043100	18575	0	0	0	0	0
LGVIPNVEGR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	9402500	7230100	9284600	149440	151060	130920	12226	0	0
LGVLEADSAIR	C11orf68	Q9H3H3	CK068	HUM	Unmodified	1467300	2026200	2730700	77420	0	19108	0	0	0
LGVLPSQLQVADLLSGLFAWEGM	N/A	N/A	N/A		Oxidation (M)	0	0	0	0	0	0	144440	0	83233
LGVQDLFNSSK	SERPINB1	P30740	ILEU	HUMA	Deamidation (N)	692650	757670	937480	20794	0	24425	0	0	0
LGVQDLFNSSKADLSGMSGAR	SERPINB1	P30740	ILEU	HUMA	Oxidation (M);Deai	562750	326440	736850	0	0	0	0	0	0
LGVQVREELLR	SLC9A3R1; SLC9A3	O14745; J3QRP6	NHRF1	HUM	Unmodified	325620	206890	263870	0	0	0	0	0	0
LGVRPSQGGEAPR	FN1	P02751	FINC	HUMA	Unmodified	882360	844790	718730	42202	68375	80277	0	0	0
LGVTNTIISHYDGR	NOP2	P46087	NOP2	HUMA	Deamidation (N)	307490	567440	600850	0	0	0	10721	10886	0
LGVTVLSR	CBR3	O75828	CBR3	HUMA	Unmodified	5551500	6005000	4844300	104150	132290	116540	0	0	0
LGWDPKPGEGHLDALLR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA	HUMAN	Unmodified	1012100	1175900	0	0	0	0	0	0	0
LGYAGNTEPQFIIPSCIAIK	ACTR3	P61158	ARP3	HUMA	Unmodified	1058500	0	1405600	0	0	0	0	0	0
LGYAGNTEPQFIIPSCIAIK	ACTR3	P61158	ARP3	HUMA	Deamidation (N)	0	715020	0	0	0	0	0	0	0
LGYEEHIPGQTR	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU	HUMA	Unmodified	1454500	1421600	1694800	78810	73962	0	0	0	0
LGYFSVDPDSHQGK	QARS1; QARS1; QA	P47897; A0A1B0	SYQ	HUMA	Unmodified	1470500	1059800	1187500	34598	47482	18328	0	0	0
LGYFSVDPDSHQGKLVFNR	QARS1; QARS1	P47897; B4DDN1	SYQ	HUMA	Unmodified	1449800	785940	1274100	0	0	0	0	0	0
LGYPVLVR	CAD; CAD	P27708; F8VPD4	PYR1	HUMA	Unmodified	5393000	6899800	3393800	0	0	0	0	11931	0
LGYTPVCR	PAFAH1B3; PAFAH	Q15102; M0R1K3	PA1B3	HUM	Unmodified	1105800	1023600	864820	0	0	0	0	0	0
LHAEFAAER	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	438920	412970	368750	0	0	0	0	0	0
LHAEFAAERDWEQFHQPR	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	7884300	6157800	7030300	16021	0	0	0	0	0
LHDETLTYLNQGQSYEIR	UBP1; TFCP2; UBP1	Q9NZI7; Q12800;	UBIP1	HUM	Unmodified	848060	786240	682310	21249	0	0	0	0	0
LHDLYWQAMK	MYBBP1A; MYBBP	Q9BQG0; I3L1L3	MBB1A	HUM	Oxidation (M)	420560	433760	332190	0	0	0	0	0	0
LHDPEGMGIIPR	KIF5B	P33176	KINH	HUMA	Oxidation (M)	2974500	3194200	3165900	0	0	0	0	0	0
LHDSLAIER	SPCS2; SPCS2; SPCS	Q15005; E9PL01;	SPCS2	HUM	Unmodified	1954800	2896700	2796600	219820	138300	46797	0	18031	16865
LHEAFSPVSYQHDLALLR	F12	P00748	FA12	HUMA	Unmodified	0	393800	417200	0	0	0	0	0	0
LHEATDYPWRPALTPFEFQK	LAMC1	P11047	LAMC1	HUM	Unmodified	1116500	351200	480100	0	0	0	0	0	0
LHEENFEITTLR	TRNT1; TRNT1; TR	Q96Q11; A0A494	TRNT1	HUM	Unmodified	1132400	1518500	0	146510	150190	151460	0	0	0
LHEQTQFQGPSGDLSVPAVEK	RIMS2; RIMS2; RIM	Q9UQ26; A0A590	RIMS2	HUM	Unmodified	0	1017200	677810	0	0	0	0	0	0
LHETVDATSETHIYQVR	CPSF2; CPSF2	Q9P2I0; H0YJF4	CPSF2	HUM	Unmodified	1095700	1607500	1210400	0	0	0	0	0	0
LHFFMPGFAPLTAR	TUBB3; N/A	Q13509; A0A0B4	TBB3	HUMA	Oxidation (M)	50067000	50119000	33668000	38309	19692	16082	0	20961	0
LHFFMPGFAPLTARGSQQYR	TUBB3; N/A	Q13509; A0A0B4	TBB3	HUMA	Oxidation (M);Met	0	1845100	0	0	0	0	0	0	0
LHFFMPGFAPLTSR	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	Oxidation (M)	599580000	520120000	602230000	1072400	781290	583920	151240	209610	176890
LHFFMPGFAPLTSRGSQQYR	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	Oxidation (M)	2432900	2653200	2182500	0	0	0	0	0	0
LHFIFR	CLGN; CANX; CDK1	O14967; P27824;	CLGN	HUM	Unmodified	724870	861970	867700	5311.9	0	0	0	0	0
LHFLMTGYTPLTTDQSVASVR	TUBG1; TUBG2	P23258; Q9NRH3	TBG1	HUMA	Oxidation (M)	4840100	2147600	5009400	0	0	0	0	0	0
LHFLMTGYTPLTTDQSVR	TUBG1	A0A7P0T9G6	A0A7P0T9G6		Oxidation (M)	130520	0	277390	0	0	0	0	0	0
LHFTIKDPANR	GAA; GAA; GAA	P10253; I3L0S5; I	LYAG	HUM	Unmodified	0	474400	0	0	0	13949	0	0	0
LHGLDEEAEQK	MCM4; MCM4; MC	P33991; A0A3B3I	MCM4	HUM	Unmodified	1680100	3300000	1769600	0	0	34637	0	0	0
LHGLPEQFLYGTATK	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	5400100	6683900	4995800	46640	35572	37196	0	0	0
LHGVRDYAAYNVLDDPELR	GLRX5	Q86SX6	GLRX5	HUM	Unmodified	7258500	6848500	8102600	0	0	0	0	0	0
LHHVSPADSGEYVCR	HSPG2	P98160	PGBM	HUM	Unmodified	315070	366730	509120	66097	70600	99650	0	0	0
LHIFSGAHGPEKDFPLHLGK	MDC1; MDC1; MDC	Q14676; A0A087	MDC1	HUM	Unmodified	741470	757540	642370	0	0	0	0	0	0
LHIIEVGTPPTGNQPFPK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	9581700	6437900	10570000	189900	100790	84803	0	30276	17200
LHIIEVGTPPTGNQPFPK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Deamidation (N)	0	1779300	388120	0	0	0	0	0	0
LHISPSNMTNQNTPEYMEK	HDAC2	Q92769	HDAC2	HUM	2 Oxidation (M);2 I	1378100	772470	1064900	0	0	0	0	0	0
LHISPSNMTNQNTPEYMEKIKQR	HDAC2	Q92769	HDAC2	HUM	Oxidation (M);Met	2471900	1857600	0	0	0	0	0	0	0
LHLFPDEVIPEDILK	MRPL13; MRPL13	Q9BYD1; E5RJI7	RM13	HUMA	Unmodified	698380	0	0	0	0	0	0	0	0
LHLGIPEAVFVEDVDSFMK	VBP1	P61758	PFD3	HUMA	Oxidation (M)	307240	0	249110	0	0	0	0	0	0
LHLGTTQNSLTEADFR	VPS4B	O75351	VPS4B	HUM	Deamidation (N)	1680800	0	0	0	0	0	0	0	0
LHLQGQTMQDPFGEK	UBE2Z	Q9H832	UBE2Z	HUM	Oxidation (M)	0	555990	0	0	0	0	0	0	0
LHLSGIDANPNALFPPVEFPAPR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Unmodified	7817100	4842500	5273200	0	0	0	0	0	0
LHLSGIDANPNALFPPVEFPAPR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Deamidation (N)	386340	303880	924830	0	0	0	0	0	0
LHLVSPADSGEYVCR	HSPG2	P98160	PGBM	HUM	Unmodified	2053900	3979900	3724700	527740	267390	535310	132160	89017	135450
LHNAEGGTQLSR	DKC1; DKC1; DKC1	O60832; H7BZF2;	DKC1	HUM	Unmodified	1224300	0	1898200	0	0	0	0	0	0
LHNQQALSSSIEEGLR	RING1	Q06587	RING1	HUM	Unmodified	1971000	970430	1649300	0	0	0	0	0	0
LHPVILASIVDSYER	EIF3F; EIF3F; EIF3F;	O00303; A0A1W2	EIF3F	HUM	Unmodified	4439900	4505600	3236200	0	0	0	0	0	0
LHPVILASIVDSYERRNEGAAR	EIF3F; EIF3F; EIF3F;	O00303; A0A1W2	EIF3F	HUM	Unmodified	2150300	1559200	1066200	0	0	0	0	0	0
LHQMSVADSGEYVCR	HSPG2	P98160	PGBM	HUM	Oxidation (M)	930150	0	876800	98236	208870	183120	0	0	0
LHSEPILQDLSR	POLRMT; POLRMT	O00411; K7ESD1	RPOM	HUM	Unmodified	516150	0	532460	0	0	0	0	0	0
LHSEVDKVLSGLEILSK	INPPL1; INPPL1	O15357; A0A0A0	SHIP2	HUM	Unmodified	274090	269200	280030	0	0	0	0	0	0
LHSSPQMAAQHNMVDDGSGKVEIWR	SCIN	Q9Y6U3	ADSV	HUMA	2 Oxidation (M);De	1233000	1210000	1390100	0	0	0	0	0	0
LHVETVK	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN	HUMA	Unmodified	0	0	21062000	1482500	1356800	0	76627	126930	90802
LIADVAPSAIR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Unmodified	5650200	5259400	4204100	15778	18599	25746	0	0	0
LIADVAPSAIRENDIK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Deamidation (N)	11615000	8702600	13839000	0	15771	0	0	0	0
LIADVAPSAIRENDIK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Unmodified	7827500	860370	5930700	0	0	0	0	0	0
LIADVAPSAIRENDIKSYFGR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Deamidation (N)	0	3735100	3804400	0	0	0	0	0	0
LIADVAPSAIRENDIKSYFGRK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Deamidation (N)	1846700	1380000	2739800	0	0	0	0	0	0
LIAEGNKEELR	PGM2; PGM2; PGM	Q96G03; E9PD70	PGM2	HUM	Unmodified	472760	688360	1020400	49082	37292	40031	0	0	0
LIAEGPGETVLVAEEEAAR	MRPL44	Q9H9J2	RM44	HUM	Unmodified	1175400	1047300	1206900	0	0	0	0	0	0
LIAHAGSLLNLAK	NOP58	Q9Y2X3	NOP58	HUM	Unmodified	1241400	991270	1026500	0	0	0	0	0	0
LIAHAGSLTNLAK	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	3629600	3568100	2916800	0	0	0	0	0	0
LIAHAGSLTNLAKYPASTVQILGAEK	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	327510	339760	242210	0	0	0	0	0	0
LIALSIDSVEDHLAWSK	PRDX6	P30041	PRDX6	HUM	Unmodified	1747900	0	1325500	0	0	0	0	0	0
LIANNTTVERR	ACTL6A	O96019	ACL6A	HUM	Deamidation (N)	0	873520	655420	0	0	0	0	0	0
LIAQDYK	GLG1; GLG1	Q92896; H3BM42	GSLG1	HUM	Unmodified	0	0	236390	0	0	0	0	0	0
LIASSPTLISGITSPPLLDSIK	ZNF362; ZNF362	Q5T0B9; F5H055	ZN362	HUM	Unmodified	786360	475620	750910	0	0	0	0	0	0
LIASYCNVGDIEGASK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	2581400	1543700	3961800	0	22450	0	0	0	0
LIATFPDTLTYSAYR	ITGA6	P23229	ITA6	HUMA	Unmodified	1509200	1844800	1462400	0	0	0	0	0	0
LICCDILDVLDKHLIPAANTGESK	YWHAE	P62258	1433E	HUM	Unmodified	446130	314310	532250	0	0	0	0	0	0
LIDDMVAQAMK	IDH1	O75874	IDHC	HUMA	2 Oxidation (M)	3473800	3472200	3234800	293300	369640	397100	0	0	0
LIDDMVAQVLK	IDH2; IDH2	P48735; H0YL11	IDHP	HUMA	Oxidation (M)	17998000	18839000	15544000	640290	613530	552170	0	0	13602
LIDFGLAR	MYLK	Q15746	MYLK	HUM	Unmodified	5088900	6111900	6492100	224160	329740	280040	0	0	0
LIDFLECGK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUM	Unmodified	2762100	2141600	2192300	0	18296	0	0	0	0
LIDFLESGK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	6012600	4132700	5299600	0	77921	0	0	0	0
LIDFLESGKTNLR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	1506200	1796600	0	18096	0	0	0	0	0
LIDFLESGKTNLRR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	0	2281000	0	0	0	0	0	0	0
LIDGREAVTFLR	DLST	P36957	ODO2	HUM	Unmodified	8366300	13336000	8383000	18673	14045	0	0	0	0
LIDIQEK	PCM1; PCM1; PCM1	Q15154; A0A4W8	PCM1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LIDLHSPSEIVK	RPS20; RPS20; RPS2	P60866; A0A7P0	RS20	HUM	Unmodified	3801300	56207000	46836000	461150	378870	544880	56243	53510	64212
LIDNISSREEIDHAEYYLYK	MRPS27; MRPS27; M	Q92552; D6RH20	RT27	HUMA	Unmodified	923930	380730	1046700	0	0	0	0	0	0
LIDPGFGIYK	UHRF2; UHRF2	Q96PU4; B1AL33	UHRF2	HUM	Unmodified	691750	796040	915090	0	9068.2	0	0	0	0
LIDPGFGIYKVNELVDAR	UHRF2	Q96PU4	UHRF2	HUM	Unmodified	2215300	781360	1411400	0	0	0	0	0	0
LIDREIISHDTR	CYB5R3; CYB5R3	P00387; B1AHF3	NB5R3	HUM	Unmodified	1344100	1063600	1095100	135580	0	98735	0	0	0
LIDRTESLNR	LSP1; LSP1; LSP1	P33241; E9PBD8;	LSP1	HUMA	Unmodified	1313800	945810	884130	59887	33601	40708	84099	103100	111380
LIDVLENR	DDX23	Q9BUQ8	DDX23	HUM	Unmodified	1561300	1456800	0	0	0	0	0	0	0
LIDVNHYAKDEVAAR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Deamidation (N)	1183400	717460	1172400	65860	0	0	0	0	0
LIDWGLAEFYHPAQEYNVR	CSNK2A2; CSNK2A	P19784; H3BSA1;	CSK22	HUM	Unmodified	1750000	1732800	1184400	0	0	0	0	0	0
LIDWGLAEFYHPGQEYNVR	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23	HUM	Unmodified	10947000	5823100	7054700	0	0	0	0	0	0
LIEDFLAR	TRAPPC3; TRAPPC	O43617; A0A087	TPPC3	HUM	Unmodified	9351700	3829900	3446100	67296	0	98416	0	12935	0
LIEDKPR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Unmodified	0	0	0	819600	1054000	802030	0	0	0
LIEDNEYTAR	YES1; SRC; FYN; LC	P07947; P12931; I	YES	HUMA	Unmodified	0	1419600	1123200	157050	103500	94531	0	0	0
LIEESQR	PNN	Q9H307	PININ	HUM	Unmodified	2939500	0	0	0	0	0	0	0	0
LIEIASR	LAMC1	P11047	LAMC1	HUM	Unmodified	1534100	1526800	1410700	81316	69766	119090	9631.3	11637	10946
LIEIENFK	SMC1A; SMC1A	Q14683; V9GYN9	SMC1A	HUM	Unmodified	3057500	2735500	3204100	266020	186380	35938	0	0	0
LIELQAGK	PRKCSH; PRKCSH;	P14314; K7EPW7	GLU2B	HUM	Unmodified	4839000	4675300	1726900	134580	95050	130050	0	0	0
LIELYKEAGISKDR	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Unmodified	917200	544880	734860	0	0	0	0	0	0
LIEPIPDSHIR	MID1; MID1; MID1;	O15344; A0A6Q8	TRI18	HUMA	Unmodified	1541900	1894400	1358600	95852	101640	110710	0	0	0
LIETGER	ENY2; ENY2; ENY2;	Q9NPA8; E5RHX	ENY2	HUMA	Unmodified	1099600	1856400	1299000	0	0	0	0	0	0
LIETQMER	CNOT3; CNOT3; CN	O75175; A0A087	CNOT3	HUM	Oxidation (M)	571140	428390	586200	112230	0	0	0	0	0
LIEVDDER	RPS6; RPS6	P62753; A2A3R7	RS6	HUMAN	Unmodified	12820000	10274000	13156000	567440	475230	496540	0	0	0
LIEVNGQNVEGLR	SLC9A3R2; SLC9A3	Q15599; H3BUQ9	NHRF2	HUM	Deamidation (N)	503300	0	0	0	0	0	0	0	0
LIEWLPLHLPR	ACAD10; ACAD10	Q6JQN1; F8W1I9	ACD10	HUM	Unmodified	1571800	1204100	1246100	0	0	0	0	0	0
LIFSTTSK	PSMC4	P43686	PRS6B	HUM	Unmodified	5224200	3912000	3952700	180000	119460	144290	0	15780	0
LIFTDGSR	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Unmodified	2762700	3067500	3601900	43701	0	0	0	0	0
LIFYDLR	KARS1; KARS1	Q15046; H3BVA8	SYK	HUMA	Unmodified	782840	648670	269310	0	0	0	0	0	0
LIGDAAKNQLTSNPENTVFDAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	2 Deamidation (N)	8462400	8941400	10616000	220070	132120	131700	0	0	0
LIGDAAKNQLTSNPENTVFDAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	10300000	7078300	10057000	223850	198080	150400	0	0	0
LIGDAAKNQLTSNPENTVFDAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
LIGDAAKNQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	972970	0	0	139850	87219	80457	0	0	0
LIGDAAKNQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	2 Deamidation (N)	3650400	3166900	6845700	47539	51586	0	0	0	0
LIGDAAKNQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	7091200	7295300	9938000	0	0	0	0	0	0
LIGDAAKNQVALNPQNTVFDAK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	2 Deamidation (N)	6366500	4581800	4118400	288760	179160	69010	0	0	0
LIGDAAKNQVALNPQNTVFDAK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	5791400	1022900	12646000	383560	340820	218210	0	0	0
LIGDAAKNQVALNPQNTVFDAKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	1361900	1290200	1463500	128950	104700	49109	0	0	24050
LIGDAAKNQVALNPQNTVFDAKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	9081200	3231200	12823000	157170	109840	105280	0	0	0

LIGDAAKNQVAMNPQNTVFDAKR	HSPA1L; HSPA1L	P34931; Q53FA3	HS71L_HUM	2 Deamidation (N)	0	1199500	0	0	0	0	0	0	0
LIGDAAKNQVAMNPTNTVFDAK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);2 De	25887000	23355000	22122000	440010	359070	0	0	0	0
LIGDAAKNQVAMNPTNTVFDAK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deai	8436400	18222000	8081900	516880	495530	623250	0	0	0
LIGDAAKNQVAMNPTNTVFDAK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	2923400	2996800	3645800	150190	121230	124130	0	0	0
LIGDAAKNQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);2 De	17657000	11551000	12373000	0	143700	66148	0	0	0
LIGDAAKNQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deai	10120000	12778000	11944000	0	123310	84313	0	0	0
LIGDAAKNQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	3219400	0	2688900	0	169560	212700	0	0	0
LIGDAAKNQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Methyl (KR);2 Dea	3219400	1977800	0	0	0	0	0	0	0
LIGEELAQLKEQR	ATXN3; ATXN3; AT	P54252; A0A0A0	ATX3_HUMA	Unmodified	7375100	5208600	6482100	45125	25535	17958	8806.9	0	0
LIGEYGLR	RPS9; RPS9; RPS9; F	P46781; F2Z3C0;	RS9_HUMAN	Unmodified	6955000	5833300	7692900	138380	134430	107810	17799	0	0
LIGNMALLPIR	ARPC3; ARPC3; ARI	O15145; F8VR50;	ARPC3_HUM	Oxidation (M)	10051000	8072300	7019300	278830	254250	229270	29207	17999	0
LIGNMALLPIR	ARPC3; ARPC3; ARI	O15145; F8VR50;	ARPC3_HUM	Oxidation (M);Deai	5988100	3739200	4069800	115210	113910	91556	26851	12575	0
LIGPLSHSILTEAIK	POP1	Q99575	POP1_HUMA	Unmodified	1518600	1033400	1030500	0	0	0	0	0	0
LIGQQGLVDGLFLVR	GRB7	Q14451	GRB7_HUMA	Unmodified	290170	108760	56400	0	0	0	0	0	0
LIGRDTVEEIVYR	CHD1L; CHD1L; CH	Q86WJ1; A0A494	CHD1L_HUM	Unmodified	0	0	334920	0	0	0	0	0	0
LIGRTWNDPSVQQDIK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Unmodified	644100	549130	586030	0	0	0	0	0	0
LIGWGQIR	EIF2S3; EIF2S3B	P41091; Q2VIR3	IF2G_HUMA	Unmodified	1537900	1493200	1879500	0	59696	32988	0	0	0
LIHPDEDISLEER	ZNF207; ZNF207; ZN	O43670; X6R4W8	ZN207_HUM	Unmodified	25040000	22832000	23923000	876240	868410	819150	64692	0	0
LIHPDEDISLEERR	ZNF207; ZNF207; ZN	O43670; X6R4W8	ZN207_HUM	Unmodified	8781800	9672800	10342000	309230	239250	276200	103080	36556	81555
LIIAGTSAYAR	SHMT2; SHMT2; SH	P34897; H0YIZ0;	GLYM_HUM	Unmodified	4663900	4864600	5299400	0	0	0	0	0	0
LIINSLYK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	6039600	0	300060	0	71968	0	10458	0	0
LIITEETAK	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	2470900	0	1724200	0	0	0	0	0	0
LIITQVR	LRPPRC	P42704	LPPRC_HUM	Unmodified	14606000	9708200	13150000	200920	201070	234670	0	0	0
LIKEFSIYMTK	GOT2	P00505	AATM_HUM	Oxidation (M)	2278900	1573600	2247800	0	26383	0	0	0	0
LIKEPAPDSGLLGLFQGQNSLLH	ISOC2	Q96AB3	ISOC2_HUM	Unmodified	218840	339840	620530	0	0	0	0	0	0
LIKGDGEVLEEIVTK	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4_HUM	Unmodified	412600	353600	1127700	0	0	0	0	0	0
LIKGDGEVLEEIVTKER	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4_HUM	Unmodified	2652400	3243900	3281500	0	0	0	0	0	0
LILAEANELGKLQK	N/A	N/A	N/A	Deamidation (N)	839080	3231300	0	0	0	0	0	0	0
LILEQMQK	STIP1; STIP1	P31948; H0YGI8	STIP1_HUMA	Oxidation (M)	3979700	3472100	4399200	72842	0	55856	0	0	0
LILEQMQKDPQALSEHLKNPVIAQK	STIP1	P31948	STIP1_HUMA	Oxidation (M)	2858200	2182400	1927300	0	0	0	0	0	0
LILEVHQFSR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	917580	867090	761490	41864	40537	40503	0	0	0
LILIESR	RPS13	P62277	RS13_HUMA	Unmodified	3388500	3228400	3351600	65252	51982	63019	0	0	12590
LILPELGPVFK	SCYL2; SCYL2; SCY	Q6P3W7; A0A0U	SCYL2_HUM	Unmodified	353690	485420	492490	0	0	0	0	0	0
LILPHVDIQLK	IDH2	P48735	IDHP_HUMA	Unmodified	841920	491550	1282400	0	0	0	0	0	0
LILPVGPAGGNQMLEQYDK	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Oxidation (M)	3397200	4088800	2918000	0	0	13202	0	0	0
LILPVGPAGGNQMLEQYDK	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Oxidation (M);Deai	1217900	1501600	3164500	0	0	0	0	0	0
LILPVGPAGGNQMLEQYDKLQDGSIK	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Oxidation (M)	11950000	10306000	12340000	0	0	0	0	0	0
LILPVGPAGGNQMLEQYDKLQDGSIK	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Oxidation (M);Deai	11923000	8693900	13131000	0	0	0	0	0	0
LILTPFER	LSG1; LSG1	Q9H089; F8WFC6	LSG1_HUMA	Unmodified	1370500	980550	0	0	0	0	0	0	0
LIMGIGHR	ACLY	P53396	ACLY_HUMA	Oxidation (M)	432100	1009300	628760	0	26523	0	0	0	0
LIMTQVSK	GPC3	P51654	GPC3_HUMA	Oxidation (M)	234840	315490	337470	0	0	0	0	0	0
LINANMMVLGHEPR	PSMD14	O00487	PSDE_HUMA	2 Oxidation (M)	1863100	1655400	1972600	0	0	0	0	0	0
LINANMMVLGHEPR	PSMD14	O00487	PSDE_HUMA	2 Oxidation (M);De	0	1186800	1112100	0	0	0	0	0	0
LINDYVK	SERPINA3; SERPIN/	P01011; G3V595	AACT_HUM/	Unmodified	2875500	1546900	1680500	0	0	0	0	34082	14235
LINQPLPDLKNVK	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	5144500	3483100	3399300	43282	27075	24016	0	9833.2	0
LINQVLELQHTLEDLSAR	SCOC; SCOC	Q9UIL1; A0A0C4	SCOC_HUMA	Unmodified	902790	0	249570	0	0	0	0	0	0
LINQVLELQHTLEDLSAR	SCOC; SCOC	Q9UIL1; A0A0C4	SCOC_HUMA	Deamidation (N)	174910	49852	100690	0	0	0	0	0	0
LIPDDLSLLK	NFATC2IP	Q8NCF5	NF2IP_HUMA	Unmodified	0	1541100	1767100	0	0	11409	0	0	0
LIPDFPVAR	WRNIP1	Q96S55	WRIP1_HUM	Unmodified	11943000	9799900	10754000	1852200	1823700	1782300	311200	309200	0
LIPDSIGKDIEK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	1846600	2122500	1953100	0	0	0	0	0	0
LIPEMDQIFTEVEMTTLEK	HYOU1; HYOU1; HY	Q9Y4L1; A0A494	HYOU1_HUM	2 Oxidation (M)	2775300	4494900	2612600	0	0	0	0	0	0
LIPGSSGKNGPVSSGTGAPGSLGR	GPRIN1	Q7Z2K8	GRIN1_HUM	Deamidation (N)	2137700	1967200	2183200	0	18859	0	0	0	0
LIPTVPLR	METTL16; METTL16	Q86W50; I3L362;	MET16_HUM	Unmodified	694870	522390	1242200	0	0	0	0	0	0
LIPVLVNGMK	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1_HUM	Oxidation (M);Deai	0	529170	0	0	0	0	0	0	0
LIQDQQEQIQHLK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	2022100	1772900	2103400	0	0	0	0	0	0
LIQEEKENTEQRAEEIESR	PPFIA1; PPFIA1; PPI	Q13136; A0A2R8	LIPA1_HUM	Unmodified	889220	707230	691790	0	0	0	0	0	0
LIQEEKENTEQRAEEIESR	PPFIA1; PPFIA1; PPI	Q13136; A0A2R8	LIPA1_HUM	Deamidation (N)	2383300	1251500	1216400	0	0	0	0	0	0
LIQEIVDK	FMR1; FMR1; FMR1	Q06787; G3V030;	FMR1_HUMA	Unmodified	1610800	974750	1192300	0	0	0	0	0	0
LIQEIVDKSGVVR	FMR1; FMR1; FMR1	Q06787; G3V030;	FMR1_HUMA	Unmodified	1072000	0	1664600	0	0	0	0	0	0
LIQELAK	NMRK1; GET3; NMI	Q9NWW6; O4368	NRK1_HUMA	Unmodified	992520	635420	1054600	0	0	0	0	0	0
LIQEQHPEEELIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	2797400	2569700	2967300	214760	220090	274950	0	0	0
LIQFEKVTEEPMGITLK	MPP1; MPP1	Q00013; A8MTH1	EM55_HUMA	Oxidation (M)	252630	0	395920	0	0	0	0	0	0
LIQGAPTIR	IGFBP2; IGFBP2	P18065; C9JMY1	IBP2_HUMA	Unmodified	2861900	3258100	4183400	109370	68319	113370	32566	0	0
LIQGAPTIRGDPECHLFYNEQQEAR	IGFBP2; IGFBP2	P18065; C9JMY1	IBP2_HUMA	Unmodified	1746400	2230900	2050800	0	0	0	0	0	0
LIQIPQLPENPPNFLR	HIP1	O00291	HIP1_HUMA	Unmodified	669680	405690	703550	0	0	0	0	0	0
LIQNIMK	NFS1	Q9Y697	NFS1_HUMA	Oxidation (M)	979660	2178700	2785000	0	0	0	0	0	0
LIQNNHYAMEDVATR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M);2 De	728280	971960	715590	0	0	0	0	0	0
LIQQEDIK	L2HGDH; L2HGDH;	Q9H9P8; G3V5S1	L2HDH_HUM	Unmodified	1033700	1052500	1031600	30704	33757	52900	0	0	0
LIQQQLEK	SRPRB; SRPRB	Q9Y5M8; H7C4H	SRPRB_HUM	Unmodified	826950	1047800	1668700	30426	53977	0	0	12695	0
LIQQQLEKELNTLR	SRPRB; SRPRB	Q9Y5M8; H7C4H	SRPRB_HUM	Unmodified	857570	1094900	816910	0	0	0	0	0	0
LIQSHPESAEDLQEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	3200100	1444700	1429900	329420	173830	361130	0	0	0
LIRDFQEYVEPGEDFPASPQR	DYNC1LI1; DYNC1I	Q9Y6G9; C9JGM	DC1L1_HUM	Unmodified	1857600	1847100	1833400	0	0	0	0	0	0
LIRDFQEYVEPGEDFPASPQRR	DYNC1LI1; DYNC1I	Q9Y6G9; C9JGM	DC1L1_HUM	Unmodified	802760	0	667090	0	0	0	0	0	0
LIRGPAETEATTD	TWF1	Q12792	TWF1_HUMA	Unmodified	1619000	1327300	1425000	436060	606550	569210	84220	0	116180
LIRGPGENGDDS	TWF2; TWF2	Q6IBS0; A0A7I2V	TWF2_HUMA	Deamidation (N)	1995800	2198700	2045900	639800	542330	568610	64069	0	0
LISDINK	SPTBN2; SPTBN1; S	O15020; Q01082;	SPTN2_HUM	Unmodified	1634300	1954400	0	72179	118530	0	0	0	0
LISDINKAWER	SPTBN2; SPTBN1; S	O15020; Q01082;	SPTN2_HUM	Unmodified	555300	0	668790	21159	19870	25525	0	0	0
LISEILSESVVPDVR	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1_HUM	Unmodified	2512400	1963000	2058600	0	0	0	0	0	0
LISGWVSR	XPO1; XPO1; XPO1;	O14980; A0A7I2	XPO1_HUMA	Unmodified	4322900	3869200	2869000	0	0	17220	0	0	0
LISLPLSR	CHRAC1; CHRAC1	Q9NRG0; E5RGS	CHRC1_HUM	Unmodified	3920900	4820600	4909400	99291	106620	113830	14537	0	0
LISPESTVMLLEAQAATGGIIDPHR	DSP	P15924	DESP_HUMA	Oxidation (M)	955060	607870	353290	0	0	0	0	0	0
LISPESTVMLLEAQAATGGIIDPHRNEK	DSP	P15924	DESP_HUMA	Oxidation (M)	1983300	1846500	2597000	0	0	0	0	0	0
LISPESTVMLLEAQAATGGIIDPHRNEK	DSP	P15924	DESP_HUMA	Oxidation (M);Deai	1983600	1318500	985460	0	0	0	0	0	0
LISQIVSSITASLR	TUBA4A; TUBA1C;	P68366; Q9BQE3;	TBA4A_HUM	Unmodified	300970	0	141170	0	0	0	0	0	0
LISSDGHEFIVK	ELOC; ELOC; ELOC	Q15369; R4GMY9	ELOC_HUMA	Unmodified	978710	529560	1044600	0	0	0	0	0	0
LISSDGHEFIVKR	ELOC; ELOC; ELOC	Q15369; R4GMY9	ELOC_HUMA	Unmodified	1752000	2626500	2535400	0	0	0	0	0	0
LISSLLR	ELAC2; ELAC2; ELA	Q9BQ52; E7ES68	RNZ2_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LISSVDPQFLK	PBDC1; PBDC1	Q9BVG4; A6NDF	PBDC1_HUM	Unmodified	2430000	2061800	2490100	30675	18115	0	0	0	0
LISWYDNEFGYSNR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	32358000	32490000	27221000	20009	11332	0	0	0	10380
LISWYDNEFGYSNR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Deamidation (N)	20809000	7630900	21148000	0	13651	0	0	0	0
LISWYDNEFGYSNR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Deamidation (N)	5800700	5793200	6089300	0	0	0	0	0	0
LISWYDNEFGYSNRVVDLMAHMASKE	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);2 1	1444100	5813000	7976600	0	0	0	0	0	0
LISYSYMVR	EPHX1	P07099	HYEP_HUMA	Oxidation (M)	2144700	1969200	2184900	162780	152550	245210	18085	0	0
LITAADTTAEQR	DMAP1; DMAP1	Q9NPF5; Q5TG40	DMAP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LITDEFVK	MAGED2; TRO; TRC	Q9UNF1; Q12816	MAGD2_HUM	Unmodified	2128700	1558200	2448800	66286	34901	39913	0	0	0
LITDLQDQNQK	KIF5B	P33176	KINH_HUMA	Unmodified	1183700	1117600	845080	0	0	0	0	0	0
LITDLQDQNQKMMLEQER	KIF5B	P33176	KINH_HUMA	2 Oxidation (M)	2370700	1524500	1137900	0	0	0	0	0	0
LITEDVQGK	RPS3A; RPS3A; RPS	P61247; D6RED7	RS3A_HUMA	Unmodified	3165300	2279200	0	0	0	0	0	0	0
LITEGASK	IDH3A; IDH3A; IDH	P50213; H0YMU	IDH3A_HUM	Unmodified	813880	989960	967060	0	0	16593	0	0	0
LITGLGVGR	MYBBP1A	Q9BQG0	MBB1A_HUM	Unmodified	1249800	907430	624090	0	0	0	0	0	0
LITGMDR	FKBP10; FKBP10; FI	Q96AY3; C9JPC3	FKB10_HUM	Oxidation (M)	1213600	975410	1144100	0	0	0	0	0	236430
LITLEEEMTK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1_HUM	Oxidation (M)	74030000	59713000	60675000	5418100	4962700	5389500	0	0	0
LITLEEEMTKYKPESEELTAER	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1_HUM	Oxidation (M)	23899000	21893000	18802000	442550	321170	0	0	0	0
LITLEEEMTKYKPESEELTAER	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1_HUM	Oxidation (M);Met	6385300	5058400	3527400	0	0	0	0	0	0
LITPAVVSER	RPS25	P62851	RS25_HUMA	Unmodified	8345400	5918500	7363200	96141	129910	0	0	0	0
LITQTFSHHNQLAQK	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC_HUM	Unmodified	6514400	7353700	7948600	0	0	205100	0	0	0
LITQTFSHHNQLAQK	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC_HUM	Deamidation (N)	2099300	2932500	3397000	0	0	0	0	0	0
LIVAYVDDLDR	TCERG1; TCERG1	O14776; A0A7P0	TCRG1_HUM	Unmodified	509370	21398000	560310	0	0	0	0	0	0
LIVAYVDDLDRR	TCERG1; TCERG1	O14776; A0A7P0	TCRG1_HUM	Unmodified	1267600	1266800	1177400	16039	23284	23956	0	0	0
LIVDHNIADYMTAK	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUMA	Oxidation (M)	876420	1086100	571360	0	0	0	0	0	0
LIVDVIR	IQGAP1; IQGAP1	P46940; H0YLE8	IQGA1_HUM	Unmodified	6591100	6336400	6242600	316110	358670	353920	53721	57980	107890
LIVENLSSR	SRSF6; SRSF4; SRSF	Q13247; Q08170;	SRSF6_HUM	Unmodified	66355000	53469000	50241000	1923300	2314700	1768900	128870	0	113010
LIVENLSSR	SRSF6; SRSF4; SRSF	Q13247; Q08170;	SRSF6_HUM	Deamidation (N)	5416600	3227400	3409900	97488	122050	134180	0	0	0
LIVNIAKVNEDMNAK	KIF14	Q15058	KIF14_HUMA	Oxidation (M);Met	0	1063900	0	0	0	0	0	0	0
LIVNVNDLR	MCM3	P25205	MCM3_HUM	Deamidation (N)	3319600	2797700	2924700	90565	94166	47439	0	0	0
LIVNVNDLR	MCM3	P25205	MCM3_HUM	Unmodified	7923400	6562500	6859100	12533	0	25745	0	0	0
LIVNVNDLRR	MCM3	P25205	MCM3_HUM	Deamidation (N)	4027500	3446400	4615600	0	0	0	0	0	0
LIVNVNDLRR	MCM3	P25205	MCM3_HUM	Unmodified	2980400	2289700	3163300	15551	11367	15749	0	0	0
LKAEAELLQQQK	PLEC	Q15149	PLEC_HUMA	Unmodified	1339700	1184200	793460	353490	72140	18688	0	0	0
LKAEAELLQQQKELAQEQAR	PLEC	Q15149	PLEC_HUMA	Unmodified	722060	4340300	3047900	0	0	0	0	0	0
LKAEFQEEAK	DSP	P15924	DESP_HUMA	Unmodified	526950	542430	722480	0	0	0	0	0	0
LKAEGSEIR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	0	13889000	16426000	0	0	0	0	0	0
LKAEGSEIRLAK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	0	0	0	147160	162940	203760	15566	16421	0
LKAEPAAPPAAPSTPAPPPAVPK	PRRC2A	P48634	PRC2A_HUM	Unmodified	2859000	3551100	2587400	96723	89944	124260	0	0	0
LKATVTPSPVK	NUCKS1	Q9H1E3	NUCKS_HUM	Unmodified	3603900	2696100	3652200	413210	220990	641100	0	0	0
LKDDEVAQLK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Unmodified	1856700	1537500	1947500	0	0	0	0	0	0
LKDDEVAQLKK	LDHB; LDHB	P07195; A0A5F9	LDHB_HUM	Unmodified	21190000	23554000	15673000	127700	134440	122410	12810	0	0
LKDEEISAAAIK	ROCK2; ROCK2; RO	O75116; Q14DU5	ROCK2_HUM	Unmodified	787470	603240	717520	0	0	0	0	0	0
LKDELASTK	BCAP31	P51572	BAP31_HUM	Unmodified	2493800	0	3411200	0	0	29151	0	0	0
LKDETLQPFFEGLLPR	CWC22; CWC22	Q9HCG8; B7WP7	CWC22_HUM	Unmodified	2242900	2479600	2592700	0	0	0	0	0	0
LKDHMLIPVSMSELEK	DDAH1; DDAH1	O94760; B4DYP1	DDAH1_HUM	2 Oxidation (M)	981780	721280	1622300	0	0	0	0	0	0
LKDISTLEPLK	ANP32B	Q92688	AN32B_HUM	Unmodified	2454800	2690900	2308100	0	0	0	0	0	0

LKDLEALLNSKEAALSTALSEKR	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Deamidation (N)	4205600	4178000	4475500	0	0	0	0	0	0
LKDLEALLNSKEAALSTALSEKR	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Unmodified	2662500	793540	0	0	0	0	0	0	0
LKDSEAELQR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7_HUM	Unmodified	1144900	1609400	1668400	0	0	0	0	0	0
LKDVLLQVDDER	MYH9	P35579	MYH9_HUM	Unmodified	999890	796170	0	0	0	0	0	0	0
LKDVLLQVDDERR	MYH9	P35579	MYH9_HUM	Unmodified	2267500	987920	2476000	33816	56307	40833	0	0	0
LKDYAFVHFEDR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	3381000	2338900	3466900	0	0	0	0	0	0
LKEDQQTVLKPQFYEIK	NOL10	Q9BSC4	NOL10_HUM	Unmodified	997270	1099900	1429200	0	0	36392	0	0	0
LKEEIEVMAK	ZMPSTE24; ZMPSTI	O75844; A0A6Q8	FACE1_HUM	Oxidation (M)	909400	845460	832430	0	0	42579	0	0	0
LKEELEEAR	EIF4G1; EIF4G1; EIF	Q04637; C9JF13;	IF4G1_HUM	Unmodified	2336000	2172700	0	0	0	0	0	0	0
LKEELEEARDIAR	EIF4G1; EIF4G1; EIF	Q04637; C9JF13;	IF4G1_HUM	Unmodified	6204100	6682800	5669300	180950	211200	152970	36922	0	24494
LKEELIDAIRQELSK	ENAH; ENAH	Q8N8S7; A0A0U1	ENAH_HUM	Unmodified	413240	708070	439670	0	0	0	0	0	0
LKEEYQSLIR	UFC1	Q9Y3C8	UFC1_HUM	Unmodified	8763000	8336600	10050000	0	75936	141950	0	0	0
LKEGDTIIVPGVEGPIVTQIR	EIF5B; EIF5B	O60841; A0A087	IF2P_HUMAN	Unmodified	9727500	5998000	8085600	0	0	0	0	0	0
LKEIDSKEEK	LBR; LBR; LBR	Q14739; A0A494	LBR_HUMAN	Unmodified	113340	367790	283120	5635.4	0	0	0	0	0
LKEIEHNLSK	RAD50; N/A; RAD5	O92878; A0A1W2	RAD50_HUM	Unmodified	557880	535830	620470	0	26510	0	0	0	0
LKEIVTNFLAGFEA	ATP5F1A	P25705	ATPA_HUMA	Unmodified	3644500	542670	2439800	0	0	0	0	0	0
LKEKKPGDLSDELR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2_HUM	Unmodified	1532400	1368500	1288300	0	61614	54630	0	0	0
LKEKYEKDIAAYR	HMGB2; HMGB1	P26583; P09429	HMGB2_HUM	Unmodified	13677000	15135000	13248000	145250	284590	208430	0	14208	36826
LKEKYEKDIAAYR	HMGB2; HMGB1	P26583; P09429	HMGB2_HUM	Methyl (KR)	4302900	5408800	6163400	0	73200	30508	0	0	0
LKEKYEKDVADYK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Unmodified	1124100	1771400	1975200	0	0	0	0	0	0
LKELESQVSGLEK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	2059200	1564000	1702500	195760	103820	66781	0	0	0
LKELIFEETAR	MAPK1	P28482	MK01_HUMA	Unmodified	7211000	6813800	6714500	255990	198460	213340	42285	0	63166
LKELIFEETAR	MAPK1	P28482	MK01_HUMA	Methyl (KR)	1837200	1717600	2256300	0	0	47991	0	0	0
LKELIFQETAR	MAPK3; MAPK3; M	P27361; B3KR49;	MK03_HUMA	Unmodified	8971200	8950900	7514700	954790	937350	1055200	93234	0	0
LKEMKMSLEK	PPP1R9A	Q9ULJ8	NEB1_HUMA	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
LKEPMDVDVEDYYPAFLDMVR	SIN3A	Q96ST3	SIN3A_HUM	2 Oxidation (M)	1127000	1623500	1150700	0	0	0	0	0	0
LKEQGQAPITPQQGQALAK	RHOG	P84095	RHOG_HUM	Unmodified	1047000	1229200	1503500	0	0	0	0	0	0
LKERLDQPMTEIVSR	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Oxidation (M)	8597500	9651700	12104000	114200	51959	0	0	0	0
LKESAEFQTQLEK	TPR	P12270	TPR_HUMAN	Unmodified	1290900	1338800	1319000	0	0	0	0	0	0
LKESQTQDNITVR	UPF1	Q92900	RENT1_HUM	Unmodified	751610	725860	698730	0	0	0	0	0	0
LKETDAAEKLR	CEP290	A0A5F9ZHU6	A0A5F9ZHU6	Methyl (KR)	591190	1229300	1772400	0	0	75044	0	0	0
LKETGYVVERPSTTK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	2511900	1735800	1796500	0	119570	10771	0	0	0
LKETYEALLAR	SMC2	O95347	SMC2_HUMA	Unmodified	915100	0	640050	0	0	0	0	0	0
LKEVFSMAGVVVR	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM_HUM	Oxidation (M)	5386800	6230400	5739200	0	0	0	0	0	0
LKEYEAAVEQLKSEQIR	ATAD3B; ATAD3A	Q5T9A4; H0Y2W	ATD3B_HUM	Unmodified	1580500	1544600	1244100	0	0	0	0	0	0
LKEYSSMDAFWQEGR	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1_HUM	Oxidation (M)	1182600	0	1037500	0	0	0	0	0	0
LKFPEPQEVVEELKK	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH_HUMA	Unmodified	1910100	1687500	1442300	0	0	0	0	0	0
LKGALMLENLQK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	Oxidation (M)	583730	522360	1665100	0	0	0	0	0	0
LKGDDLQAIKKELTQIK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Unmodified	1918000	1232300	1354800	0	0	0	0	0	0
LKGEATVSFDDPPSAK	FUS; FUS	P35637; H3BPE7	FUS_HUMAN	Unmodified	39198000	33191000	47937000	964020	878360	1102400	27551	0	0
LKGEMMDLQHGSLFLQTPK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB_HUM	2 Oxidation (M)	1858900	1862000	0	0	0	0	0	0	0
LKGEMMDLQHGSLFLR	LDHA; LDHA; LDH	P00338; F5GXY2;	LDHA_HUM	2 Oxidation (M)	8194400	9566500	9710300	0	0	0	0	0	0
LKGEMMDLQHGSLFLR	LDHA; LDHA; LDH	P00338; F5GXY2;	LDHA_HUM	2 Oxidation (M);M	728390	605860	920960	0	0	0	0	0	0
LKGIVPLAK	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Unmodified	5793000	5507600	5944300	350050	405230	278170	23899	0	0
LKGIVPLAK	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Methyl (KR)	1342900	764630	1388200	27146	36744	31730	0	0	0
LKGPQITGPSLEGDLGLK	AHNAK	Q09666	AHNK_HUM	Unmodified	632770	575420	773220	0	0	0	21515	0	0
LKIPEGLFDPSNVK	ACTL6A	O96019	ACL6A_HUM	Unmodified	4583200	3544700	3173200	19831	0	0	0	0	0
LKIYEEAWTKYPR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	Unmodified	1191000	980790	2135900	0	0	0	0	0	0
LKKMHNLGHKNNNPPK	RIPOR2; RIPOR2; RI	Q9Y4F9; B7Z6U4	RIPR2_HUM	Oxidation (M);4 De	0	0	4152700	0	0	0	0	0	0
LKLDSEQLPLRPK	CD2AP	Q9Y5K6	CD2AP_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LKLDYEEITPCLK	TBC1D1; TBC1D1; T	Q86TI0; H0Y8P0;	TBCD1_HUM	Unmodified	524260	0	0	0	0	0	0	0	0
LKLLLPWLEAR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	3795900	3508900	3845600	0	0	0	0	0	0
LKLPAVVTADLR	ETFB; ETFB	P38117; M0QY67	ETFB_HUMA	Unmodified	974140	1456400	1057700	0	0	0	0	0	0
LKLPSIPLVPVSAQK	TOMM34	Q15785	TOM34_HUM	Unmodified	2836500	3960500	2622900	0	0	0	0	0	0
LKLSEELSGGR	ACTR3; ACTR3	P61158; B4DXW1	ARP3_HUMA	Unmodified	1432400	1040700	1164400	53728	0	41160	0	0	0
LKLSPADGTRGQEITVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Unmodified	0	0	0	361630	292050	515190	48291	0	28288
LKMPEMHFKAPK	AHNAK	Q09666	AHNK_HUM	2 Oxidation (M);2 M	294780	491740	0	41006	59855	45536	0	0	0
LKNITLDDASAPR	CSDE1; CSDE1	O75534; E9PLT0	CSDE1_HUM	Unmodified	751760	3813400	2777300	0	0	0	0	0	0
LKNKHEAMITDLEER	MYH9	P35579	MYH9_HUM	Oxidation (M)	1208000	779860	893100	0	0	0	0	0	0
LKNKHESMISELEVR	MYH11	P35749	MYH11_HUM	Methyl (KR)	0	0	2343900	0	0	0	0	0	0
LKNQVTQLKEQVPGFTPR	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC_HUMA	Unmodified	1828400	1557800	2082200	0	0	0	0	0	0
LKNQVTQLKEQVPGFTPR	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC_HUMA	Deamidation (N)	926340	3504300	1329200	0	0	0	0	0	0
LKNTKIEVLEEELR	DSP	P15924	DESP_HUMA	Deamidation (N)	759770	767600	0	0	0	0	0	0	0
LKNTLTQTTENLR	DSP	P15924	DESP_HUMA	Unmodified	3078400	3794100	3133600	0	0	0	0	0	0
LKNTSEQDQPMGGWEMIR	LMNB1	P20700	LMNB1_HUM	2 Oxidation (M)	5024300	4564500	3584300	0	0	95578	0	0	0
LKNTSEQDQPMGGWEMIR	LMNB1	P20700	LMNB1_HUM	2 Oxidation (M);De	4982000	6021100	4947500	231720	110780	0	0	0	0
LKNTSEQDQPMGGWEMIRK	LMNB1	P20700	LMNB1_HUM	2 Oxidation (M)	2405300	3462900	1003200	65758	0	0	25472	0	0
LKNTSEQDQPMGGWEMIRK	LMNB1	P20700	LMNB1_HUM	2 Oxidation (M);De	272120	0	1598100	0	0	0	0	0	0
LKPEDITQIPQQLVLR	ITGB1; ITGB1; ITGB	P05556; E7EQW5	ITB1_HUMA	Unmodified	61779000	48426000	37357000	0	30259	0	0	0	0
LKPEDITQIPQQLVLR	ITGB1; ITGB1; ITGB	P05556; E7EQW5	ITB1_HUMA	Methyl (KR)	4949700	3813200	3923100	0	0	0	0	0	0
LKPGYLEATVDWFR	PPA1	Q15181	IPYR_HUMA	Unmodified	2021800	1879700	2596200	0	0	0	0	0	0
LKPGYLEATVDWFRR	PPA1	Q15181	IPYR_HUMA	Unmodified	1663000	915150	0	0	0	0	0	0	0
LKPKPIDVQVITHHMQR	ACTR3; ACTR3	P61158; B4DXW1	ARP3_HUMA	Oxidation (M)	0	0	1265600	0	0	0	0	0	0
LKPLEVELR	TMED10	P49755	TMEDA_HUM	Unmodified	4298900	3559600	3952000	153280	145500	146580	0	0	0
LKPLPGETMEK	TLN1	Q9Y490	TLN1_HUMA	Oxidation (M)	692900	767100	971180	0	48522	39795	14661	0	0
LKPNLGNGADLPNYR	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC_HUM	Deamidation (N)	3667400	6301000	2517900	0	0	0	0	0	0
LKPNLGNGADLPNYR	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC_HUM	2 Deamidation (N)	787810	537850	0	0	0	0	0	0	0
LKPPPPVAILPLGTGNDLAR	DGKZ; DGKZ	Q13574; E9PNL8	DGKZ_HUM	Deamidation (N)	1680900	1735500	2181600	0	0	0	0	0	0
LKPPVHYNGPSK	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD_HUM	Deamidation (N)	1290100	1991900	1398900	254240	229430	314870	0	0	14088
LKQIEEQTKK	MSN	P26038	MOES_HUM	Unmodified	794690	1070100	794340	29940	29461	32993	0	0	0
LKQQSELQSQVR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	15720000	14287000	18673000	2573200	2763200	3202400	79585	241650	85375
LKQQSELQSQVR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Methyl (KR)	892080	1473100	1215700	90778	0	102860	0	0	12156
LKQRLDLMREMYDR	KIF1B; KIF1B; KIF1	O60333; A0A087	KIF1B_HUM	2 Oxidation (M);M	995320	0	0	0	0	37193	0	0	16545
LKQSAEEQAQAR	PLEC	Q15149	PLEC_HUMA	Unmodified	0	1065900	1594100	112200	121950	114700	10234	0	6332.3
LKSDEDEERVHEEL	FKBP10; FKBP10	Q96AY3; H0Y827	FKB10_HUM	Unmodified	1317600	1349700	1111800	120040	142340	146330	0	0	0
LKSDTAAAAVR	UBA1	P22314	UBA1_HUMA	Unmodified	6149300	6925700	8146700	423090	335130	570020	0	0	0
LKSELVANNVTLPAGEQRK	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B_HUM	Deamidation (N)	2549600	3814400	3470900	0	0	0	0	0	0
LKSGGGFGPDPGSGTTVPAR	SENP3	Q9H4L4	SENP3_HUM	Unmodified	0	1647700	1479000	138680	148940	169240	0	0	0
LKSMEAEMIQLQEELAAAER	MYH9	P35579	MYH9_HUM	2 Oxidation (M)	2837200	1455300	3540800	0	0	0	0	0	0
LKSTCIYGGAPK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	Unmodified	546380	711030	683850	0	68931	0	0	0	0
LKTDNAGDQHGGGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIR	HNRNPL	P14866	HNRPL_HUM	Unmodified	3180700	2188900	2582300	0	0	0	0	0	0
LKTDNAGDQHGGGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIR	HNRNPL	P14866	HNRPL_HUM	Deamidation (N)	0	3525000	3163700	0	0	0	0	0	0
LKTEDSLMPEEEFLR	SF3A1	Q15459	SF3A1_HUM	Oxidation (M)	314830	1152000	330050	0	0	12731	0	0	0
LKTEEGEIDYSAEEGENRR	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL_HUM	Unmodified	768380	861080	1214200	36344	0	0	0	0	0
LKTEGSDLCDR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	1065200	1013300	723470	116960	0	161470	0	0	0
LKTQMLDQEELLASTR	KIF5B	P33176	KIN5B_HUMA	Oxidation (M)	1149400	1333400	1333400	0	36925	38292	0	0	0
LKVEDALSYLDQVK	SIN3A; SIN3A; SIN3	Q96ST3; H3BNZ3	SIN3A_HUM	Unmodified	1747400	1438400	1428100	0	0	0	0	0	0
LKVNELREELQR	HNRNPUL1; HNRNP	Q9BUJ2; M0R247	HNRL1_HUM	Unmodified	3069800	2260200	2843700	0	0	0	0	0	0
LKVNFLPEIITLSK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	239390	196440	297530	0	0	0	0	0	0
LKVPEWVDTVK	RPS19; RPS19; RPSI	P39019; M0QYF7	RS19_HUMA	Unmodified	2655400	3222400	3182400	0	0	0	0	0	0
LKVPPAINQFTQALDR	RPL7A; RPL7A	P62424; Q5T8U3	RL7A_HUMA	Deamidation (N)	828420	2383300	2038800	0	0	0	0	0	0
LKVPPAINQFTQALDR	RPL7A; RPL7A	P62424; Q5T8U3	RL7A_HUMA	Unmodified	3372900	2669300	2597000	0	0	0	0	0	0
LKVQEQELTR	DSP	P15924	DESP_HUMA	Unmodified	1091900	910990	1207200	0	0	0	0	0	0
LKVQPIPELSELSR	MYO18A; MYO18A	Q92614; A0A0D9	MY18A_HUM	Unmodified	1036700	423620	494630	0	0	0	0	0	0
LKVSELKEELK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU_HUM	Unmodified	4661200	4572800	5471400	0	15118	17609	0	0	0
LKVSELKEELKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU_HUM	Unmodified	9778200	14161000	12211000	0	0	0	0	0	0
LKVSELKEELKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU_HUM	Methyl (KR)	1264300	4048500	5339400	0	0	0	0	0	0
LKVTEGGEPYR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	16152000	15222000	15095000	338670	365340	414970	0	0	0
LKVTELRSELQR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2_HUM	Unmodified	2863800	2512800	2039400	64271	67391	49974	20957	9849.2	0
LLAAEPLSK	COLGALT1	Q8NBJ5	GT251_HUM	Unmodified	2035700	1675000	2018900	0	0	0	0	0	0
LLAAFEER	CBX8; CBX8; CBX8	Q9HC52; C9JM54	CBX8_HUMA	Unmodified	1611100	564770	1099000	0	25642	0	0	0	0
LLAAVEAFYSPPSHDRPR	CHERP; CHERP	Q8IWX8; J3QKB9	CHERP_HUM	Unmodified	2285100	2234100	2435200	0	0	0	0	0	0
LLACIASR	RPS8; RPS8	P62241; Q5JR95	RS8_HUMAN	Unmodified	0	508010	525250	0	0	0	0	0	0
LLADPTGAFGK	PRDX5	P30044	PRDX5_HUM	Unmodified	21321000	16802000	16396000	463560	537160	566940	0	0	26886
LLADQAEAR	RPL19; RPL19; RPL	P84098; J3KTE4;	RL19_HUMA	Unmodified	9965500	10219000	9201300	259250	281370	287460	0	0	0
LLAEILR	LRPPRC	P42704	LPPRC_HUM	Unmodified	13109000	15859000	10482000	56389	55120	47898	11535	12903	0
LLAEPAGGLVGER	ITPK1; ITPK1	Q13572; G3V4M9	ITPK1_HUM	Unmodified	935680	893390	973750	39936	0	41891	0	0	0
LLAEPVPGIK	UBE2NL; UBE2N; U	Q5JXB2; P61088;	UE2NL_HUM	Unmodified	33160000	23270000	25087000	396370	383500	380700	15526	71461	16431
LLAEPVPGIKAEPDESNAR	UBE2NL; UBE2N; U	Q5JXB2; P61088;	UE2NL_HUM	Unmodified	12640000	11654000	15811000	162930	149390	192440	0	0	27008
LLAEPVPGIKAEPDESNAR	UBE2NL; UBE2N; U	Q5JXB2; P61088;	UE2NL_HUM	Deamidation (N)	5761400	7248100	6106600	49347	38464	58526	0	0	0
LLAEQQNK	C9orf78	Q9NZ63	TLS1_HUMA	Unmodified	747450	1437200	1874500	69410	0	67668	0	16644	0
LLAETVAPAVR	ESYT1; ESYT1	Q9BSJ8; F8VZB1	ESYT1_HUM	Unmodified	1960000	2627300	1913500	54608	92418	64635	0	0	0
LLAEYEAGQAR	C2CD4C	Q8TF44	C2C4C_HUM	Unmodified	902620	913970	0	0	0	0	0	0	0
LLAFLLPR	MROH1; MROH1	Q8NDA8; E9PHY	MROH1_HUM	Unmodified	82077	99732	100090	0	0	0	0	0	0
LLAGTPEPSVHALPDALNNLR	DLL3	Q9NYJ7	DLL3_HUMA	Deamidation (N)	2888600	1729500	1755200	0	0	0	0	0	0
LLAGTPEPSVHALPDALNNLR	DLL3	Q9NYJ7	DLL3_HUMA	Unmodified	2463900	1189200	1683800	0	0	0	0	0	0
LLALNSLYSPK	PRKDC	P78527	PRKDC_HUM	Unmodified	1387000	1189900	825480	0	0	0	0	0	0
LLALNSLYSPK	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	0	0	1128300	0	0	0	0	0	0
LLALSGPGGGR	PNN; PNN; PNN	Q9H307; G3V5F0	PININ_HUMA	Unmodified	1127000	1423900	1269200	0	0	0	0	0	0
LLAPEAGSHPQQTQK	TOR1AIP2	Q8NFQ8	TOIP2_HUM	Unmodified	0	696990	587810	0	79579	0	0	0	0
LLAPPEAPGSAPPPAAWVIPGPTTGPK	CAMSAP3	Q9P1Y5	CAMP3_HUM	Unmodified	1592500	1141900	2209000	0	0	0	0	0	0
LLAQQHPPPDR	PRRC2C; PRRC2C; I	Q9Y520; A0A0A0	PRC2C_HUM	Unmodified	979340	1080900	855740	0	0	0	0	0	0

LLASPSSR	NCAPH; NCAPH; NC	Q15003; E9PHA2;	CND2	HUMA	Unmodified	2935600	2606900	1726600	14500	40313	22834	0	0	0
LLASSDPLAQIAEDKPYAELWMGTHPR	MPI; MPI; MPI; MPI;	P34949; H3BQX0	MPI	HUMAN	Oxidation (M)	696760	1157100	1502300	0	0	0	0	0	0
LLASTLVHSVKK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	1999900	830440	1167000	0	0	0	0	0	0
LLASTLVHSVKKEQEFR	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	727340	762050	956040	0	0	0	0	0	0
LLATASFTK	AHCTF1; AHCTF1	Q8WYP5; H7C4S	ELYS	HUMA	Unmodified	632590	813170	2279100	0	0	51070	0	0	0
LLATEQEDAAVAK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	2529900	2424300	2642600	149460	166490	126220	0	0	0
LLAVAATAPPDAPNREEVFDER	VCL	P18206	VINC	HUMA	Unmodified	11124000	11520000	11162000	70280	80128	0	50513	0	0
LLAVAATAPPDAPNREEVFDER	VCL	P18206	VINC	HUMA	Deamidation (N)	3389900	5906000	3190500	79062	29263	20675	0	0	0
LLAVTGEQAQQAR	AARS2	Q5JTZ9	SYAM	HUM	Unmodified	1465800	707190	0	0	0	0	0	0	0
LLCEGRREK	SIN3B; SIN3B	O75182; M0QYC4	SIN3B	HUM	3 Methyl (KR)	501360	394570	0	19345	13313	0	0	0	0
LLCGKETMVTSTTEPSR	PRKCSH; PRKCSH;	P14314; K7ELL7;	GLU2B	HUM	Oxidation (M)	541620	504980	401640	92944	95013	113810	0	0	0
LLCGLLAER	MIF	P14174	MIF	HUMAN	Unmodified	40858000	46091000	54880000	137220	119600	121090	76216	81466	102520
LLDAESEDRPK	KIF4A; KIF4B	O95239; Q2VIQ3	KIF4A	HUM	Unmodified	0	829910	1045700	0	0	0	0	0	0
LLDAPGIVPGPNSEVGTILR	GNL3L; GNL3L; GNI	Q9NVN8; A0A6I8	GNL3L	HUM	Deamidation (N)	355720	408940	238600	0	0	0	0	0	0
LLDAVDTYIPVPAR	TUFM	P49411	EFTU	HUMA	Unmodified	20795000	16868000	17667000	57163	54233	40645	0	50587	41023
LLDAVDTYIPVPARDLEKPFLLPVEAVYSVPGR	TUFM	P49411	EFTU	HUMA	Unmodified	240790	0	0	0	0	0	0	0	0
LLDAVVPFLPLQR	TOR2A	Q5JU69	TOR2A	HUM	Unmodified	396280	307940	409160	0	0	0	0	0	0
LLDDAMAADK	GLOD4; GLOD4; GL	Q9HC38; I3L1I0;	GLOD4	HUM	Oxidation (M)	896240	845410	1091100	0	26829	0	0	0	0
LLDDAMAADKSDEWFAK	GLOD4; GLOD4; GL	Q9HC38; I3L1I0;	GLOD4	HUM	Oxidation (M)	3380700	2591800	2001300	0	0	0	0	0	0
LLDDLFR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU	HUM	Unmodified	6035300	3405500	4459600	102770	99507	82287	0	0	0
LLDEAIQAVK	VPS35; VPS35; VPS	Q96QK1; A0A1W	VPS35	HUM	Unmodified	3473800	3167500	2403800	20059	30913	0	0	0	0
LLDEEEATDNDLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Deamidation (N)	1028700	625020	0	0	0	0	0	0	0
LLDEEEATDNDLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LLDEEEATDNDLRAK	PDCD6IP	Q8WUM4	PDC6I	HUM	Deamidation (N)	850630	640360	660600	0	20211	0	0	0	0
LLDELTLEGVAR	SIRT2; SIRT2; SIRT2	Q8IXJ6; F8WDM4	SIR2	HUMA	Unmodified	0	0	773950	0	0	0	0	0	0
LLDEQFAVLR	HIP1R	O75146	HIP1R	HUM	Unmodified	723450	646620	551610	0	0	0	0	0	0
LLDEVFFSEK	PSMA4; PSMA4; PSI	P25789; H0YKT8	PSA4	HUMA	Unmodified	3019400	3559600	3297000	25225	25490	0	23359	0	0
LLDFGSLSNLQVTQPTVGMNFK	RPS17; N/A	P08708; H3BNC9	RS17	HUMA	Oxidation (M)	14766000	5395600	11705000	0	0	0	0	0	0
LLDFGSLSNLQVTQPTVGMNFK	RPS17; N/A	P08708; H3BNC9	RS17	HUMA	Oxidation (M);Deai	4131400	469050	3193700	0	0	0	0	0	0
LLDFGSLSNLQVTQPTVGMNFKTPR	RPS17; N/A	P08708; H3BNC9	RS17	HUMA	Oxidation (M)	10519000	10964000	8972900	0	0	0	0	0	0
LLDFGSLSNLQVTQPTVGMNFKTPR	RPS17; N/A	P08708; H3BNC9	RS17	HUMA	Oxidation (M);Deai	31902000	20845000	23794000	21100	0	0	0	0	0
LLDFTQAQILQGLR	NBAS; NBAS	A2RRP1; H0Y5G7	NBAS	HUMA	Unmodified	255140	304930	470400	0	0	0	0	0	0
LLDGPSTEKDLDEK	TCEA1; TCEA1; TCI	P23193; A0A1W2	TCEA1	HUM	Unmodified	1655700	1626200	1441000	16208	18744	13784	0	0	0
LLDISELDMVGAGR	NELFA; NELFA; NEI	Q9H3P2; C9JEM7	NELFA	HUM	Oxidation (M)	2734700	2318600	2180400	15980	0	0	0	0	0
LLDLDIPMSVGIIDTR	UBP1	Q9NZI7	UBIP1	HUM	Oxidation (M)	333910	0	184920	0	0	0	0	0	0
LLDLENIQIPEAPPPIPK	ELMO2; ELMO2; EL	Q96JJ3; Q5JVZ5;	ELMO2	HUM	Unmodified	808920	453080	589910	0	0	0	0	0	0
LLDLLEGLTGTSLPK	UTRN; UTRN; UTRN	P46939; A0A0D9	UTRN	HUM	Unmodified	159180	0	96568	0	0	0	0	0	0
LLDMDGIIVEK	EIF3A	Q14152	EIF3A	HUM	Oxidation (M)	3365300	1159200	3557900	0	0	0	0	0	0
LLDPEDISVDHPDEK	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Unmodified	3473300	2489400	2958900	0	68617	84447	0	0	0
LLDPEDVDVPQPDEK	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	2503700	2374300	2701400	0	232970	217950	0	0	0
LLDPSSPLALALSAR	SHANK2; SHANK2;	Q9UPX8; A6NHU	SHAN2	HUM	Unmodified	705710	688810	240880	0	0	0	0	0	0
LLDQIVEK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1	HUM	Unmodified	34696000	29381000	35353000	321530	378660	319790	14807	17012	19006
LLDSDQELYR	GRK2	P25098	ARBK1	HUM	Unmodified	1028900	0	0	0	0	0	0	0	0
LLDSEIK	PSMC3; PSMC3; PSI	P17980; E9PN50;	PRS6A	HUM	Unmodified	0	0	1997000	62073	0	0	0	0	0
LLDSEIKIMK	PSMC3; PSMC3; PSI	P17980; E9PN50;	PRS6A	HUM	Oxidation (M)	0	1420200	1620900	0	0	0	0	0	0
LLDSITVPVAR	AP3B1	O00203	AP3B1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LLDSLEPPGEPGPSTNIPENDTVDGREEK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG	HUMAN	Deamidation (N)	0	4835200	4342000	0	0	0	0	0	0
LLDSSTVTHLFK	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6	HUMA	Unmodified	667320	833320	0	10047	0	24525	12310	0	0
LLDTIGISQPQWR	CAD; CAD	P27708; F8VPD4	PYR1	HUMA	Unmodified	5369200	3460300	4393200	0	0	0	0	0	0
LLDTNPEINQSDQSDSR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Deamidation (N)	920680	1113500	1286400	35361	0	0	0	0	0
LLDTNPEINQSDQSDSR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	282320	381120	350730	0	0	52834	0	0	0
LLDTSTYK	PMVK	Q15126	PMVK	HUM	Unmodified	0	0	2160100	0	23319	16113	0	0	0
LLDTVDDMLANDIAR	EHD1; EHD1; EHD1	Q9H4M9; C9J2Z4	EHD1	HUMA	Oxidation (M)	193130	248130	220340	0	0	0	0	0	0
LLDVDNR	MT-CO2	P00403	COX2	HUMA	Unmodified	4175500	3674600	3675800	79531	95018	72412	0	0	0
LLDVDNRVVLPIEAPIR	MT-CO2	P00403	COX2	HUMA	Unmodified	12857000	6743200	11606000	0	0	0	11144	0	0
LLDVDNRVVLPIEAPIR	MT-CO2	P00403	COX2	HUMA	Deamidation (N)	16607000	14208000	16232000	0	0	0	0	0	0
LLDVNNQRLELGIGPGAATR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	274460	1625000	394290	0	0	0	0	0	0
LLDVNNQRLELGIGPGAATR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Deamidation (N)	387050	967900	396070	0	0	0	16114	0	0
LLDYVPIGPR	NSF; NSF; NSF; NSF	P46459; I3L2G1;	NSF	HUMAN	Unmodified	1357900	1408600	1295700	24271	0	0	0	0	0
LLEAAAQSTK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	3159100	2471800	2501200	256490	349430	317400	0	0	0
LLEAASVSSK	DSP	P15924	DESP	HUMA	Unmodified	14689000	16675000	20968000	378030	416960	463180	0	0	0
LLEAGPTQFTTPLASFTTVASEPPVK	BRD8; BRD8	Q9H8E9; B5MCW	BRD8	HUMA	Unmodified	834750	669590	750980	0	0	0	0	0	0
LLEAQACTGGIIHPTTGQK	DSP	P15924	DESP	HUMA	Unmodified	6039000	5182700	5451600	0	0	0	0	0	0
LLEAQIASGGVVDPVNSVFLPK	DSP	P15924	DESP	HUMA	Unmodified	685130	0	0	0	0	0	0	0	0
LLEATAKPEPEEK	DNAJC1	Q96KC8	DNJC1	HUM	Unmodified	1216800	1235900	0	0	0	0	0	0	0
LLEATELKGIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Methyl (KR)	1387100	1807300	2026100	0	0	0	0	0	0
LLEDEPR	RADX; ARID1B; ARI	Q6NSI4; Q8NFD5	RADX	HUM	Unmodified	1130600	1364500	1338500	0	0	0	0	0	0
LLEDGEDFNLGDALDSSNSMQTIQK	KRT18	P05783	K1C18	HUM	Oxidation (M)	5812800	0	2917500	0	0	0	0	0	0
LLEDGEDFNLGDALDSSNSMQTIQK	KRT18	P05783	K1C18	HUM	Oxidation (M);Deai	1358100	2035900	3889800	0	0	0	0	0	0
LLEDGEDFNLGDALDSSNSMQTIQK	KRT18	P05783	K1C18	HUM	Methyl (KR);Deam	0	2028800	0	0	0	0	0	0	30957
LLEDKNGEVQNLAVK	CAND2; CAND1; CA	O75155; Q86VP6;	CAND2	HUM	Deamidation (N)	0	961180	889100	0	0	0	0	0	0
LLEDKNGEVQNLAVK	CAND2; CAND1; CA	O75155; Q86VP6;	CAND2	HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
LLEDLQK	DHX36; DHX36	Q9H2U1; E7EWK	DHX36	HUM	Unmodified	0	1152600	1467000	0	0	0	0	0	0
LLEDSALSKYDATK	SMARCD1	Q96GM5	SMRD1	HUM	Unmodified	707740	944200	661300	6769	0	0	0	0	0
LLEEALLR	PRKDC	P78527	PRKDC	HUM	Unmodified	19682000	18402000	18954000	82241	87304	35623	0	11741	13880
LLEEAVR	LSR; ARHGEF11; LS	Q86X29; O15085;	LSR	HUMAN	Unmodified	2849700	2388200	2515200	190530	201340	239520	0	0	0
LLEEDTPR	SVIL; SVIL	O95425; A0A6B9	SVIL	HUMA	Unmodified	1416300	1287100	1379200	81073	0	97559	0	0	0
LLEEEDSKLK	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124	HUM	Unmodified	833160	831020	983750	0	22234	34401	0	0	0
LLEEEDSKLKGGK	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124	HUM	Unmodified	339190	912770	432790	19651	35254	0	0	0	0
LLEEEDSKLKGGKAPR	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124	HUM	Unmodified	900560	752500	567520	121190	94669	124520	0	0	0
LLEEGVLR	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Unmodified	6365700	5786400	6578100	294480	257180	201810	0	0	0
LLEEKDPVPLFK	MRPL28; MRPL28	Q13084; A2IDC6	RM28	HUM	Unmodified	2641100	2406300	2814300	0	0	0	0	0	0
LLEELEEGQK	UBE2V2; UBE2V1; U	Q15819; Q13404;	UB2V2	HUM	Unmodified	7333000	981200	5024000	186260	202380	198900	0	0	0
LLEEQLQHEISNK	KTN1	Q86UP2	KTN1	HUMA	Unmodified	1482700	0	1160200	26529	0	20588	0	0	0
LLEFYDATAHFAK	COG7	P83436	COG7	HUMA	Unmodified	602170	614980	0	0	0	0	0	0	0
LLEGDKLLAQQAGSGEFR	CCDC85C; CCDC85(	A6NKD9; H0YJY7	CC85C	HUM	Unmodified	1673200	566360	1663800	25326	21802	0	0	0	0
LLEGEEER	LMNB1; LMNB2; LM	P20700; Q03252;	LMNB1	HUM	Unmodified	20419000	17576000	17378000	1506400	1252600	1647900	0	0	0
LLEGEEERLK	LMNB1; LMNB2	P20700; Q03252	LMNB1	HUM	Unmodified	36045000	31624000	32844000	1295100	998580	1184800	17947	0	0
LLEGEEERLKLSPSPSSR	LMNB1; LMNB2	P20700; Q03252	LMNB1	HUM	Unmodified	3131900	1703000	2434200	979040	557810	198660	99171	25442	41354
LLEGEEERLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	28529000	25895000	26686000	2612900	2739300	3105800	205610	78761	219290
LLEGPVPEEVGLK	AHNAK2	Q8IVF2	AHNK2	HUM	Unmodified	53937	0	57887	0	0	0	0	0	0
LLEIDPYLKPYAVDFQR	GBE1	Q04446	GLGB	HUM	Unmodified	18971000	12801000	14913000	0	0	0	0	0	0
LLEIDPYLKPYAVDFQRR	GBE1	Q04446	GLGB	HUM	Unmodified	2226400	1770500	2692400	0	0	0	0	0	0
LLEIVER	TWF1	Q12792	TWF1	HUMA	Unmodified	5578300	5842500	7032700	300790	334330	284980	0	21784	11668
LLEIVSYK	USP7; USP7; USP7	Q93009; A0A669	UBP7	HUMA	Unmodified	2485400	2881200	2987000	9102	0	22347	0	0	0
LLELADIDPTLRPR	TFB1M	Q8WVM0	TFB1M	HUM	Unmodified	4072800	4411300	5187800	0	0	0	0	0	0
LLELDPEHQR	P4HA1	P13674	P4HA1	HUM	Unmodified	815720	0	134420	0	0	0	0	0	0
LLELFPVNR	BZW2; BZW2; BZW	Q9Y6E2; B5MCE	BZW2	HUM	Unmodified	2382300	1973100	1781600	0	12972	12251	0	0	0
LLELGPKPEVAQQTR	COPA; COPA; COPA	P53621; A0A3B3	COPA	HUM	Unmodified	3680700	3395700	3763500	80203	66711	60139	14838	0	16914
LLELLPGK	CPSF7; CPSF7; CPSI	Q8N684; F5H6M(	CPSF7	HUM	Unmodified	1207000	1393900	1049800	0	0	0	0	0	0
LLELLPGKVLNGEK	CPSF7; CPSF7; CPSI	Q8N684; F5H6M(	CPSF7	HUM	Deamidation (N)	0	0	443170	0	0	0	0	0	0
LLELMNKHDTEMK	DYRK1A; DYRK1A;	Q13627; A0A2R8	DYR1A	HUM	2 Oxidation (M);2 I	210740	0	0	0	0	0	0	0	0
LLELQELVLR	GOLGA2; GOLGA2;	Q08379; A0A087	GOGA2	HUM	Unmodified	2002500	1616000	2374500	0	0	0	0	0	0
LLELTGPK	A1BG; A1BG	P04217; M0R009	A1BG	HUMA	Unmodified	1980400	1869600	2014400	42833	48882	32928	0	0	10167
LLELTSSVSPDVSDYKEGR	COIL	P38432	COIL	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LLEMGLR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB	HUMA	Oxidation (M)	2154100	2229800	2611800	51241	44800	34650	0	0	0
LLEMNLMHAPQVADAILGNQMFTHYDR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	3 Oxidation (M);De	3079400	2242000	3615500	0	0	0	0	0	0
LLEMNLMHAPQVADAILGNQMFTHYDR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	3 Oxidation (M)	11971000	6171400	7998100	0	0	0	0	0	0
LLEPEAPGLCRPPLPR	AFDN; AFDN; AFDN	P55196; H0Y8L4;	AFAD	HUM	Unmodified	747780	1059200	608540	52453	53342	48084	0	0	0
LLEPFEVR	THEM6	Q8WUY1	THEM6	HUM	Unmodified	5176900	4536400	4366500	177550	251440	213370	0	0	0
LLEPGSLGGIPSPAK	TIMM22	Q9Y584	TIM22	HUM	Unmodified	1041900	834420	1029300	38051	28564	29552	0	0	0
LLEPSVGSLFGDDEDDDLFSSAK	WASHC2A; WASHC	Q641Q2; Q9V4E1	WAC2A	HUM	Unmodified	256670	0	278330	0	0	0	0	0	0
LLEPVDHGKIEYEPFRK	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	Unmodified	633000	597710	546570	0	0	0	0	0	0
LLEPVLLLGK	RPS16; RPS16; RPS	P62249; M0R210	RS16	HUMA	Unmodified	24472000	23591000	29510000	0	0	97179	79460	105730	72332
LLEPVLLLGKER	RPS16; RPS16; RPS	P62249; M0R210	RS16	HUMA	Unmodified	21110000	23879000	18596000	222700	166550	114220	24836	12595	9205.2
LLEPVLLLGKER	RPS16; RPS16; RPS	P62249; M0R210	RS16	HUMA	Methyl (KR)	3103900	0	3470700	8129.9	0	0	0	0	0
LLEQGLR	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	6578200	5839400	5904000	64244	35384	67902	0	0	0
LLEQQELR	NOL10	Q9BSC4	NOL10	HUM	Unmodified	587970	1031500	1222400	0	0	0	0	0	0
LLEQYKEESK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	7773600	9485600	7833500	181570	176320	150700	0	0	0
LLEQYKEESK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Methyl (KR)	828480	1109600	0	0	0	0	0	0	0
LLEQYKEESKK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	18078000	14282000	19188000	524410	557620	673620	0	0	0
LLERLPEVEVPQHL	NUCB1	Q02818	NUCB1	HUM	Unmodified	7474800	7878200	6169200	17834	0	0	13670	0	0
LLESDYFR	ERO1A; ERO1A; ERI	Q96HE7; G3V3E6	ERO1A	HUM	Unmodified	3323200	3516700	3642400	0	0	24093	0	0	0
LLESKMKTLNETNEAFKEK	N/A	N/A	N/A		Oxidation (M);2 M	0	548150000	0	0	0	0	0	0	0
LLETIDQLYLEYAK	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Unmodified	276180	0	0	0	0	0	0	0	0
LLETIDQLYLEYAKR	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Unmodified	4259000	1839600	2627600	0	0	0	0	0	0
LLETTDRPDGHQNNLR	KPNB1; KPNB1	Q14974; J3KTM9	IMBI	HUMA	Deamidation (N)	3139700	2739500	3318700	0	0	0	0	0	0
LLETTEEDKQKNFLFLR	TRMT10C; TRMT10	Q7L0Y3; C9JVB6	TM10C	HUM	Deamidation (N)	1043000	0	1319400	0	0	0	0	0	0
LLEVDLK	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Unmodified	3636600	2023900	3054000	38093	35267	48403	0	0	0
LLEVEHPAAK	TCP1; TCP1; TCP1;	P17987; F5H726;	TCPA	HUMA	Unmodified	1386000	1306700	905900	0	0	0	0	0	0
LLEVQGSRPGKNVQLTENEIR	PPP1CA; PPP1CA	P62136; E9PMD7	PP1A	HUMA	Unmodified	1137100	1222200	0	0	0	0	0	0	0
LLEVYDQLFK	NUP155; NUP155	O75694; E9PF10	NU155	HUM	Unmodified	773570	527400	669270	0	0	0	0	10998	0

LLEYDTVTR	APMAP; APMAP	Q9HDC9; H0Y51(	APMAP	HUN	Unmodified	5952800	7013600	6416600	75505	75455	76925	0	0	0
LLEYTPTAR	GSK3B; GSK3B; GSI	P49841; A0A7I2V	GSK3B	HUM	Unmodified	2965900	3059800	1999000	160570	235540	212970	0	0	0
LLFDETQGKPAVAVIDNGR	SMCHD1	A6NHR9	SMHD1	HUM	Deamidation (N)	0	0	216860	0	0	0	0	0	0
LLFGPTVR	MRPS2; MRPS2	Q9Y399; Q5T8A0	RT02	HUMA	Unmodified	666560	429570	559880	0	0	20341	0	0	0
LLFPAVDDNLLK	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	4983800	3576400	3498400	0	0	0	0	0	0
LLFSHDLVSGR	UBE2O	Q9C0C9	UBE2O	HUM	Unmodified	2138100	1952700	2115000	59604	48229	0	0	0	0
LLFSNTAAQK	SIN3A	Q96ST3	SIN3A	HUM	Unmodified	1086400	1121900	1327500	0	27510	0	0	0	0
LLFSNTAAQK	SIN3A	Q96ST3	SIN3A	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
LLGASELPIVTPALR	KPNA2; KPNA2; KP	P52292; A0A7I2V	IMA1	HUMA	Unmodified	4413400	4647500	4387500	0	0	0	0	17481	12366
LLGDAKELANILK	TGFBI; TGFBI	Q15582; H0Y8L3	BGH3	HUMA	Deamidation (N)	5714400	3961200	4061400	0	0	0	0	0	0
LLGDLLPEAVR	IRF2BPL	Q9H1B7	I2BPL	HUM	Unmodified	3685600	2136800	3660700	0	0	0	0	0	0
LLGELLQDNAK	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Unmodified	5127500	3806100	4271100	40022	63613	36860	0	0	18561
LLGELLQDNAK	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Deamidation (N)	855780	832050	666840	0	0	0	0	0	0
LLGELLQDNAKLVPVLSAK	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Unmodified	898210	870950	1062900	0	0	0	0	0	0
LLGELLQDNAKLVPVLSAK	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Deamidation (N)	2506700	911730	1944900	0	0	0	0	0	0
LLGIFENQDR	NUDT4; NUDT4; NU	Q9NZJ9; F8VRL4	NUDT4	HUM	Unmodified	430170	453440	345130	22577	16964	36883	0	0	0
LLGIFENQDRK	NUDT4; NUDT4; NU	Q9NZJ9; F8VRL4	NUDT4	HUM	Unmodified	591940	0	509140	0	0	0	0	0	0
LLGILMMANVFIYFIMEVSKSSSQEK	B3GNT2	Q9NY97	B3GN2	HUM	Oxidation (M);Deai	895000	901900	392580	0	0	0	0	0	0
LLGIPLLQPYTTEER	TBCEL; TBCEL; TB(	Q5QJ74; E9PP54;	TBCEL	HUM	Unmodified	4308800	0	0	0	0	0	0	0	0
LLGLGSASGSVGR	MMTAG2	Q9BU76	MMTA2	HUM	Unmodified	1205200	684820	1065000	56570	0	37688	0	0	0
LLGLGVTDFSR	MYH14; MYH14	Q7Z406; M0QY43	MYH14	HUM	Unmodified	2859000	2368600	2835000	22173	15988	0	0	0	0
LLGLLMPFR	PDP1	Q9P0J1	PDP1	HUMA	Oxidation (M)	0	724900	1055500	0	0	0	0	0	0
LLGLPFIAGPVDIR	RBM12B; RBM12B;	Q8IXT5; B9ZVT1	RB12B	HUM	Unmodified	250570	111510	247500	0	0	0	0	0	0
LLGMETEHQALLAK	TUFT1; TUFT1	Q9NNX1; A6PVU	TUFT1	HUM	Oxidation (M)	0	846840	1209100	63241	65052	0	0	0	0
LLGPSAAADILQLSSSLPLQSR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	4661100	769510	2758100	0	0	0	0	0	0
LLGPSAAADILQLSSSLPLQSRGR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	748690	554760	838660	0	0	0	0	0	0
LLGPVLVK	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Unmodified	8054100	7119000	8061600	0	0	10882	0	0	0
LLGPVLVKQELGEAR	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Unmodified	8338500	7650800	9665300	0	0	0	0	0	0
LLGPVLVKQELGEAR	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUMA	Methyl (KR)	1019500	626490	841570	0	0	0	0	0	0
LLGQFTLIGIPPAPR	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75	HUM	Unmodified	1717800	1345900	1707600	8773.1	0	0	0	0	0
LLGSDGSPLMDMLQLAEEPVPQAGQELR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB	HUMA	2 Oxidation (M)	952910	2000100	1098000	0	0	0	0	0	0
LLGSTIPLCSAQWER	CPT1A; CPT1A	P50416; H3BMD2	CPT1A	HUM	Unmodified	281910	0	247600	0	0	0	0	0	0
LLGSVQQDLER	PBXIP1	Q96AQ6	PBIP1	HUM	Unmodified	0	0	0	312680	263530	328300	0	0	0
LLGTIYTAAEEIEAVGGK	HSDL2	Q6YN16	HSDL2	HUM	Unmodified	2235300	518040	0	0	0	0	0	0	0
LLGTPDIGISINLLIK	KMT2A	Q03164	KMT2A	HUM	Unmodified	297190	163320	280810	0	0	0	0	0	0
LLGWQNKLPQLPITNFSR	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUMA	Deamidation (N)	97326	24245	69836	0	0	0	0	0	0
LLHDQVGVIQFGPYK	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUM	Unmodified	2417700	2408400	2690300	0	0	0	0	0	0
LLHEVQELTTEVEK	DCTN2; DCTN2; DC	Q13561; A8K8J9;	DCTN2	HUM	Unmodified	860680	219580	1077400	0	0	0	0	0	0
LLHGMKDDIVPWHTSMQVADR	ABHD10	Q9NUJ1	ABHDA	HUM	2 Oxidation (M)	0	1141800	1205400	0	0	0	0	0	0
LLHIEELRELQTK	RTRAF	Q9Y224	RTRAF	HUM	Unmodified	839790	0	447110	0	0	0	0	0	0
LLHPSPDLVSQEATLSEAR	CMIP; CMIP; CMIP	Q8IY22; A0A087\	CMIP	HUM	Unmodified	1120300	1014500	530430	0	0	0	0	0	0
LLHSEAYLK	PBRM1	Q86U86	PB1	HUMAN	Unmodified	0	0	1100300	0	0	0	0	0	0
LLIDEAILK	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUM	Unmodified	2344900	2736600	3424500	24110	25983	22578	0	11893	0
LLIDEAILKCDAER	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUM	Unmodified	315920	254260	358500	0	0	0	0	0	0
LLIEMEQR	CKB; CKB	P12277; H0YJG0	KCRB	HUM	Oxidation (M)	9592500	9348200	9427200	0	0	0	0	0	0
LLIEMEQRLEQGQAIDDLMPAQK	CKB; CKB	P12277; H0YJG0	KCRB	HUM	2 Oxidation (M)	10632000	9230900	12203000	0	0	0	0	0	0
LLIHQSLAGGIIGVK	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Unmodified	11603000	6689500	8368100	56437	47966	0	0	89538	53251
LLILMEAR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUMA	Oxidation (M)	1040400	1276300	0	0	15263	12194	0	0	0
LLIPGNYK	CPE	P16870	CBPE	HUMA	Unmodified	2954200	1916000	3143700	0	29514	39689	0	0	0
LLIPVAEGMNEIWLR	FERMT2; FERMT2;	Q96AC1; A0A0U1	FERM2	HUM	Oxidation (M);Deai	371980	222380	328510	0	0	0	0	0	0
LLIQQNKNVIAPLMTR	PLOD1	Q02809	PLOD1	HUM	Oxidation (M);Deai	833660	641790	1736600	0	0	0	0	0	0
LLIQVGHEPMPPTLGTNVLGR	MTCH1; MTCH1	Q9NZJ7; H0Y8C3	MTCH1	HUM	Oxidation (M)	478860	230940	1453500	0	0	0	0	0	0
LLIVSTTPYSEK	RUVBL2; RUVBL2	Q9Y230; M0R0Y(	RUVB2	HUM	Unmodified	1275700	1050900	1630400	0	0	0	0	0	0
LLIVSTTPYSEKDTK	RUVBL2; RUVBL2	Q9Y230; M0R0Y(	RUVB2	HUM	Unmodified	1943700	1928100	2427800	19469	21336	16369	0	0	0
LLIYETEAK	RBM25	P49756	RBM25	HUM	Unmodified	1521100	1388900	1675400	51983	51133	66317	0	0	0
LLIYETEAKK	RBM25	P49756	RBM25	HUM	Unmodified	1361400	1295100	1429800	55272	0	0	0	0	0
LLKEEKEELADQVLTLK	RNF20	Q5VTR2	BRE1A	HUM	Unmodified	1148800	1241500	1152900	0	0	0	0	0	0
LLKEQEIEDQKNPR	SPTLC1	O15269	SPTC1	HUM	Unmodified	801920	983180	916600	0	0	0	0	0	0
LLKIPVDTYNNILTVLK	VPS35	Q96QK1	VPS35	HUM	Deamidation (N)	413620	322390	330780	0	0	0	0	0	0
LLKMQNQR	FTL	P02792	FRIL	HUMA	Oxidation (M);Deai	320720	356280	265110	233710	194490	0	0	0	0
LLLAPSSK	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10	HUM	Unmodified	0	836390	705190	0	0	0	0	0	0
LLLASFKNEGAEPDLIR	STX8; STX8	Q9UNK0; I3L305	STX8	HUM	Unmodified	781910	821310	1804700	0	0	0	0	0	0
LLLASFKNEGAEPDLIR	STX8; STX8	Q9UNK0; I3L305	STX8	HUM	Deamidation (N)	1350800	1879000	1573500	0	0	0	0	0	0
LLLDPSSPPTK	LAMTOR1; LAMTOI	Q6IAA8; H0YFI1;	LTOR1	HUM	Unmodified	0	749850	744550	105220	94961	99950	0	14880	0
LLLDQEQK	DNAJC8	O75937	DNJC8	HUM	Unmodified	2657000	3143200	3024800	0	82603	0	0	0	0
LLLDTFEYQGLVK	CENPV; CENPV	Q7Z7K6; A0A0M	CENPV	HUM	Unmodified	6871900	5723700	6846500	0	0	0	0	0	0
LLLDTLQLSK	INPPL1; INPPL1	O15357; H7BXR2	SHIP2	HUMA	Unmodified	2705100	3003500	2733500	98489	98861	64040	33987	14517	26955
LLLEGISSTHAHHLR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1	HUM	Unmodified	2381500	0	2163100	0	0	0	0	0	0
LLLEIPEK	COG1; COG1; COG1	Q8WTW3; E9PB1	COG1	HUMA	Unmodified	4783900	4903200	3887700	413720	452150	0	0	125230	0
LLLGDLAPVR	ABCF3	Q9NUQ8	ABCF3	HUM	Unmodified	699400	562480	0	10129	7695.7	0	0	0	0
LLLIDWPELK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Unmodified	215930	164630	242000	0	0	0	0	0	0
LLLIGDSGVGK	RAB1C; RAB10; RA	Q92928; P61026;	RAB1C	HUM	Unmodified	7052700	8380800	7121100	167590	126560	122340	53855	44258	0
LLLLDTVTMQVTAR	COPG1; COPG1	Q9Y678; H0Y8X7	COPG1	HUM	Oxidation (M)	2634400	2372300	850610	0	0	0	0	0	0
LLLLESVSGLLQPR	PELP1; PELP1; PELI	Q8IZL8; I3L445; (	PELP1	HUM	Unmodified	1375500	136400	765200	0	0	0	0	0	0
LLLLGAGESGK	GNAS; GNAI3; GNA	Q5JWF2; P08754;	GNAS1	HUM	Unmodified	12805000	11358000	12479000	581160	567330	561990	32221	33659	0
LLLLGAGESGKSTIVK	GNAS; GNAI3; GNA	Q5JWF2; P08754;	GNAS1	HUM	Unmodified	3191000	2093200	2324900	85711	73284	58270	0	12285	0
LLLLGTGESGK	GNAQ; GNA11; GNA	P50148; P29992; (	GNAQ	HUM	Unmodified	2166100	1946500	1763000	45459	54996	48873	0	0	0
LLLNNDNLLR	CAPZA2; CAPZA1; (	P47755; P52907; ,	CAZA2	HUM	Unmodified	1982100	5918700	1624600	0	71650	82140	0	0	0
LLLNNDNLLR	CAPZA2; CAPZA1; (	P47755; P52907; ,	CAZA2	HUM	Deamidation (N)	5460500	6071200	8504300	24865	28017	21292	0	0	0
LLLNNDNLLR	CAPZA2; CAPZA1; (	P47755; P52907; ,	CAZA2	HUM	2 Deamidation (N)	2925400	2627000	3016100	0	19459	16957	0	0	0
LLLNVTPTVRPDADQMTK	SCYL2; SCYL2; SCY	Q6P3W7; A0A0U	SCYL2	HUM	Oxidation (M)	2177700	4649600	2448700	0	0	0	0	0	0
LLLPGELAK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Unmodified	7253400000	5981400000	6378800000	367580000	317140000	321640000	27718000	27146000	28391000
LLLPGELAK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Methyl (KR)	74289000	83825000	85685000	0	0	1054200	7391.5	107610	114680
LLLPGELAKHAVSEGTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Unmodified	21518000	25924000	21158000	1040800	836490	582970	70370	60266	37200
LLLPGELAKHAVSEGTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Methyl (KR)	17241000	16997000	17181000	213130	179630	113630	25389	0	0
LLLPGELAKHAVSEGTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	2 Methyl (KR)	1580000	872980	1014300	0	0	0	0	0	0
LLLPGELAKHAVSEGTKAVTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Unmodified	1844900	1871000	2557200	0	0	0	0	0	0
LLLPGELAKHAVSEGTKAVTK	H2BE1; H2BC4; H2B	A0A2R8Y619; P6	H2BE1	HUM	Methyl (KR)	3162100	2424300	2762000	0	0	0	0	0	0
LLLPTPTVK	CCAR1; CCAR1	Q8IX12; A0A0C4	CCAR1	HUM	Unmodified	8743000	8285700	9041600	123140	146830	633640	9050.7	0	7659.2
LLLPWLEAR	CLTC; CLTC	Q00610; A0A087\	CLH1	HUM	Unmodified	13039000	15284000	12327000	6187	0	0	0	0	0
LLLQQNK	ARHGEF18; ARHGE	Q6ZSZ5; A0A087	ARHGI	HUM	Unmodified	1873200	1361700	1183900	0	0	0	0	0	0
LLLQQVSLPELPGEYSMK	A2M	P01023	A2MG	HUM	Oxidation (M)	0	853770	1249900	0	0	0	0	0	0
LLLSSETPIEGK	APMAP; APMAP	Q9HDC9; H0Y51(	APMAP	HUM	Unmodified	17536000	10946000	13318000	375310	384890	362890	0	0	0
LLLTPWVK	EIF3A	Q14152	EIF3A	HUM	Unmodified	1094200	713790	715830	0	0	7853	0	0	0
LLLTTDLK	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	610220	541330	563250	0	0	0	0	0	0
LLLVEPSRNDLLLR	ORC1	Q13415	ORC1	HUMA	Deamidation (N)	1010700	624360	439560	0	0	0	0	0	0
LLLVGAPR	ITGA6	P23229	ITA6	HUMA	Unmodified	4612500	3855900	4966900	144630	113950	131630	17408	0	18380
LLLWSQR	PLEC; PLEC; PLEC;	Q15149; E9PQ28;	PLEC	HUMA	Unmodified	1269400	885740	1078000	24766	19830	30009	0	0	0
LLMDDLKVLQPTVFPVVPR	ACSL1; ACSL1; ACS	P33121; B7Z3Z9;	ACSL1	HUM	Oxidation (M)	427180	672800	591210	0	0	0	0	0	0
LLMDLDISMR	MAP2K6; MAP2K6;	P52564; K7EIW3;	MP2K6	HUM	2 Oxidation (M)	531190	491380	0	0	34975	66200	0	0	0
LLMDMALFMGR	NUP98; NUP98; NUI	P52948; H0YDA1	NUP98	HUM	3 Oxidation (M)	0	551460	400870	88149	98432	59199	0	0	0
LLMFPESR	EXOC8	Q8IYI6	EXOC8	HUM	Oxidation (M)	1075800	1086200	829030	50790	0	75567	0	18971	0
LLMHGKEVGSIIGK	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM	Oxidation (M)	10512000	7773800	11649000	55343	52349	42476	0	0	0
LLMLDDQR	GBA; GBA; GBA; GI	P04062; A0A0G2	GLCM	HUM	Oxidation (M)	825140	923760	1239600	143970	82832	135780	0	0	0
LLMSEDYFTQAMEVK	LRPPRC	P42704	LPPRC	HUM	2 Oxidation (M)	2306500	1773900	1636700	0	0	0	0	0	0
LLMSGGGGYLLSGFTVAMDNLK	TRMT6	Q9UJA5	TRM6	HUM	2 Oxidation (M)	977090	648570	1057400	0	0	0	0	0	0
LLNDEDPVVVTK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUMA	Unmodified	2747400	2362400	3449200	0	0	0	0	0	0
LLNDEDPVVVTK	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUMA	Deamidation (N)	976970	1219700	1195100	45915	29173	38726	0	0	0
LLNDEQVVVNK	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1	HUM	Unmodified	1436000	1003600	874830	0	80317	102700	0	0	0
LLNENSYVPR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUMA	Unmodified	1152200	1425800	0	0	0	0	0	0	0
LLNENSYVPR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUMA	Deamidation (N)	3470300	3050500	3139700	0	0	0	0	0	0
LLNENSYVPR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUMA	2 Deamidation (N)	2754000	2228600	2337700	0	0	0	0	0	0
LLNEVMVEHFFR	RMND5A	Q9H871	RMD5A	HUM	Oxidation (M)	1494300	760560	1887300	0	0	0	0	0	0
LLNFPTIVER	GET3	O43681	GET3	HUMA	Unmodified	1218700	4170900	4411500	0	12308	0	0	0	9922
LLNILMQLR	SMARCA1; SMARC;	P28370; O60264;	SMCA1	HUM	Oxidation (M)	698500	584150	721270	0	0	0	0	0	0
LLNIWQER	RPRD1B	Q9NQG5	RPR1B	HUM	Unmodified	1272900	1766200	1489100	7984.1	14621	15339	0	34394	46852
LLNLTER	BCCIP; HOXA3; HO	Q9P287; O43365;	BCCIP	HUM	Unmodified	2753800	2947900	11216000	23494	47415	35113	0	0	0
LLNLYPR	DPYSL5	Q9BPU6	DPYL5	HUM	Unmodified	2831300	2850600	2220300	0	0	26982	0	0	0
LLNNAFEELVAFQR	MCM3; MCM3; MCI	P25205; A0A499F	MCM3	HUM	Deamidation (N)	1980800	715670	1440100	0	0	0	0	0	0
LLNNAFEELVAFQR	MCM3; MCM3; MCI	P25205; A0A499F	MCM3	HUM	Unmodified	876850	507600	846210	0	0	0	0	0	0
LLNNAFEELVAFQR	MCM3; MCM3; MCI	P25205; A0A499F	MCM3	HUM	2 Deamidation (N)	278180	0	246220	0	0	0	0	0	0
LLNPSLQK	XPO5	Q9HAV4	XPO5	HUMA	Unmodified	1099700	1076000	1259700	0	0	0	0	0	0
LLNRNNEVWLIQK	HEBP2	Q9Y5Z4	HEBP2	HUM	Deamidation (N)	382560	780810	278820	0	0	0	0	0	0
LLNRNNEVWLIQK	HEBP2	Q9Y5Z4	HEBP2	HUM	2 Deamidation (N)	345420	186780	298440	0	0	0	0	0	0
LLNSDHSALPNQR	NBEAL1	Q6ZS30	NBEL1	HUM	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
LLNTFLER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	3110700	3114600	3197800	0	0	0	0	0	0
LLNTWTNRYPDAK	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	1665200	1090600	1224600	29784	23575	0	0	0	0
LLNTWTNRYPDAK	PRKDC	P78527	PRKDC	HUM	2 Deamidation (N)	399490	533900	0	0	0	0	0	0	0
LLNTWTNRYPDAK	PRKDC	P78527	PRKDC	HUM	Unmodified	1165900	1219900	1352000	0	0	0	0	0	0
LLPAELPAK	PRKDC	P78527	PRKDC	HUM	Unmodified	4535700	19075000	27133000	722600	27751	864120	0	0	0
LLPASFPCIFGPGENQPLSPEASR	OPLAH	O14841	OPLA	HUMA	Unmodified	526280	453360	442220	0	0	0	0	0	0
LLPDITLLEPVEGEAAEELSR	POLR1C; POLR1C; I	O15160; A0A2R8	RPAC1	HUM	Unmodified	215280	0	0	0	0	0	0	0	0

LLPDIYGWPVATENWEQK	MME; MME; MME	P08473; A0A6Q8I	NEP	HUMAN	Unmodified	0	288000	0	0	0	0	0	0	0
LLPEQLIK	NUP205	Q92621	NU205	HUM	Unmodified	0	998090	795210	0	0	0	0	0	0
LLPERKEVEETDEMDQVELVDFDPNQER	DNAJA1	P31689	DNJA1	HUM	Oxidation (M)	1448900	1418500	1456700	0	0	0	0	0	0
LLPEYRDAEIVR	MYG1; MYG1	Q9HB07; F8VQQ	MYG1	HUM	Unmodified	2174500	1923600	2839200	409390	311600	465150	33589	35182	24251
LLPFLAPGAR	HGH1; HGH1	Q9BTY7; E9PIX0	HGH1	HUM	Unmodified	2145200	2756200	1951000	29356	0	34293	0	0	0
LLPGKGTTGTQLNGR	LSM14B; LSM14B; I	Q9BX40; Q5TBP5	LS14B	HUM	Deamidation (N)	354800	291120	489770	0	0	0	0	0	0
LLPHQLYGVVPQA	XRCC1; XRCC1	P18887; F5H8D7	XRCC1	HUM	Unmodified	1168100	774060	1008400	11999	15170	0	0	0	0
LLPIDGANDLFFQPPPLTPTSK	OGA	O60502	OGA	HUMA	Deamidation (N)	389700	0	0	0	0	0	0	0	0
LLPLAANGR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082	HUM	Deamidation (N)	4862900	2967800	687220	0	556290	0	0	0	0
LLPLAANGRLYHPAPER	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082	HUM	Deamidation (N)	3973000	6490400	6089300	369220	0	390790	0	0	0
LLPLTKSPVESTTEPPAVR	SEC24C; SEC24C	P53992; G5EA31	SC24C	HUM	Unmodified	672240	0	0	689090	532120	722090	122170	110220	0
LLPLTQYPDSSVR	HGH1	Q9BTY7	HGH1	HUMA	Unmodified	1011700	964400	755020	0	0	0	0	0	0
LLPLVSDEVFIR	PYGB	P11216	PYGB	HUMA	Unmodified	1006300	657120	678050	0	0	0	0	0	0
LLPLVSDEVFIRDVAK	PYGB	P11216	PYGB	HUMA	Unmodified	2488500	1150000	2809700	0	0	0	0	0	0
LLPPFKPQVTSEVDTR	AKT2; AKT2; AKT2;	P31751; M0R283;	AKT2	HUMA	Unmodified	344230	256520	229340	0	14778	0	0	0	0
LLPQDPK	GSTZ1; GSTZ1; GST	O43708; G3V5T0;	MAAI	HUMA	Unmodified	1359300	1841300	0	0	0	0	0	0	0
LLPQGTVIFEDISIEHFEGTVTK	CSDE1; CSDE1	O75534; E9PLT0	CSDE1	HUM	Unmodified	346670	0	0	0	0	0	0	0	0
LLPQLTYLDGYDRDDK	ANP32A; ANP32A	P39687; H0YN26	AN32A	HUM	Unmodified	3962500	3995900	2693100	30767	22495	17655	39236	29053	31351
LLPSAPQTLPDGPLASPAR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	2407900	2447800	3052400	155400	120090	0	94191	45516	52843
LLPSLIGR	RSL1D1; RSL1D1; R	O76021; J3QSV6;	RL1D1	HUM	Unmodified	836650	712990	1029200	0	0	0	0	0	0
LLPVFAQTFQQTMLPSIR	HECTD1; HECTD1; I	Q9ULT8; G3V4V	HECD1	HUM	Oxidation (M)	327680	270710	287510	0	0	0	0	0	0
LLPVLDR	TP53I3; CFD; CFD	Q53FA7; P00746;	QORX	HUM	Unmodified	2817300	2428600	1986900	0	0	7038.6	0	0	0
LLPVLDRIYPVTEIQEAHK	TP53I3	Q53FA7	QORX	HUM	Unmodified	1351200	1514300	1587300	0	0	0	0	0	0
LLPVLLSTAQEADPEVR	IPO4; IPO4; IPO4	Q8TEX9; H0YMR	IPO4	HUMA	Unmodified	1890900	0	0	0	0	0	0	0	0
LLQAETASNSAR	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1	HUM	Unmodified	6291400	4714700	5879800	341280	355240	393860	0	0	0
LLQAETASNSAR	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1	HUM	Deamidation (N)	5101200	5153100	5709200	75521	90363	70923	0	0	0
LLQAQGVEVPSK	EIF5B; EIF5B	O60841; A0A087	IF2P	HUMAN	Unmodified	665990	364850	520800	0	0	0	0	0	0
LLQAQGVEVPSKDSLPK	EIF5B; EIF5B	O60841; A0A087	IF2P	HUMAN	Unmodified	1986300	1585300	2069100	0	0	0	0	0	0
LLQAVTDLGWSRPTLIQEK	DDX56; DDX56; DD	Q9NY93; G3V0G	DDX56	HUM	Unmodified	2227000	781210	2128400	0	0	0	0	0	0
LLQDAIR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2	HUM	Unmodified	1596300	1602000	1447900	38480	0	37954	0	0	0
LLQDEFPGIPSPLDAAVECHR	HPX; HPX	P02790; Q9BS19	HEMO	HUM	Unmodified	2629500	1441100	1977000	0	0	0	0	0	0
LLQDFFNGK	HSPA6; HSPA8; HSP	P17066; P11142; I	HSP76	HUM	Deamidation (N)	4366000	3761000	3942900	0	0	0	0	0	0
LLQDFFNGKELNK	HSPA6; HSPA8; HSP	P17066; P11142; I	HSP76	HUM	Deamidation (N)	24885000	19249000	22231000	19362	0	0	0	0	0
LLQDFFNGKELNK	HSPA6; HSPA8; HSP	P17066; P11142; I	HSP76	HUM	2 Deamidation (N)	6566500	2895600	4332800	0	0	0	0	0	0
LLQDFFNGKELNK	HSPA6; HSPA8; HSP	P17066; P11142; I	HSP76	HUM	Methyl (KR);Deam	817000	877140	688160	0	0	0	0	0	0
LLQDFFNGR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	8182200	7260700	6210800	11970	25635	0	0	0	0
LLQDFFNGRDLNK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	8528200	10039000	9383400	32298	41186	0	0	10915	0
LLQDFFNGRDLNK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	2 Deamidation (N)	3054800	1406400	3552400	0	0	0	0	0	0
LLQDFNR	PRKDC	P78527	PRKDC	HUM	Unmodified	1138100	1221900	1194900	0	0	0	0	0	0
LLQDHPWLLSQNLVVKPDQLIK	ACLY; ACLY	P53396; K7ESG8	ACLY	HUMA	Deamidation (N)	1103000	397030	790500	0	0	0	0	0	0
LLQDMDINR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUMA	Oxidation (M)	1535900	730920	1090200	0	0	0	0	0	0
LLQEAPGK	POLRMT; POLRMT	O00411; K7EMH	RPOM	HUM	Unmodified	458400	0	455210	0	0	0	0	0	0
LLQEGQALEYVCPSGFYPYPVQTR	CFB; N/A; CFB; CFB	P00751; B4E1Z4;	CFAB	HUM	Unmodified	962800	723600	995740	0	0	0	0	0	0
LLQFPELR	EP400	Q96L91	EP400	HUM	Unmodified	315790	268670	328750	0	0	0	0	0	0
LLQGPSEKNARIFLMDK	RASSF6	Q6ZTQ3	RASF6	HUM	Oxidation (M);2 M	0	0	0	69843	78621	0	0	0	0
LLQGRPPLDFYPPGVHPSGLVPR	PRRC2A	P48634	PRC2A	HUM	Unmodified	5587700	6761200	6336600	0	0	0	0	0	0
LLQIIDRDGEEEEEEEEEPLDESSVKK	CTNNBL1; CTNNBL	Q8WYA6; A2A2P	CTBL1	HUM	Unmodified	5851300	6212900	8160400	0	0	0	0	0	0
LLQIIER	PRKDC	P78527	PRKDC	HUM	Unmodified	5513000	5163800	4411000	25628	31854	26097	0	0	0
LLQIIERYPEETLSLMTK	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	2046000	724330	0	0	0	0	0	0	0
LLQLDKEFQLFQGVTR	FTSJ1	Q9UET6	TRM7	HUM	Unmodified	485670	0	800630	0	0	0	0	0	0
LLQLGQQPR	PKP3; PKP3	Q9Y446; E9PQ15	PKP3	HUMA	Unmodified	2949900	4215400	3405500	62013	0	13463	0	0	0
LLQLQEQMR	DSP	P15924	DESP	HUMA	Oxidation (M)	13114000	12380000	11616000	324600	292650	319650	0	0	0
LLQLTEK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1804600	0	1797400	0	0	0	0	0	0
LLQLVEDR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUMA	Unmodified	21266000	17660000	18197000	270990	229770	252680	0	0	0
LLQLVEDRGSGR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUMA	Unmodified	29802000	27286000	24958000	249450	233450	217920	27605	0	25702
LLQMQR	RALBP1	Q15311	RBP1	HUMA	Oxidation (M)	991310	0	1767900	66001	79882	0	0	0	0
LLQNILDAGFQMPTPIQMQAIPVMLHGR	DDX52	Q9Y2R4	DDX52	HUM	3 Oxidation (M)	883290	694960	900840	0	0	0	0	0	0
LLQPFLLR	CHD1L; CHD1L; CH	Q86WJ1; A0A494	CHD1L	HUM	Unmodified	606060	548570	933160	0	0	0	0	0	0
LLQPLVPR	DDX51	Q8N8A6	DDX51	HUM	Unmodified	1435700	839100	0	0	0	0	0	0	0
LLQPPAPIMPLDTNWPLLTVSK	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUMA	Oxidation (M)	7415000	6034500	1349500	0	0	0	0	0	0
LLQQEEEIK	RARS1; RARS1; RAI	P54136; E5RJM9;	SYRC	HUMA	Unmodified	2113300	1855000	2170500	74454	89085	87173	0	0	0
LLQQGTAPAQAK	GATAD2A	Q86YP4	P66A	HUMA	Unmodified	907060	1011800	1057300	36235	0	96019	0	0	0
LLQQLFLK	BCCIP	Q9P287	BCCIP	HUM	Unmodified	459140	1021200	547480	0	0	0	0	0	0
LLQQSGAQQFR	FYTTD1; FYTTD1; F	Q96QD9; H9KVD	UIF	HUMAN	Unmodified	1306100	1448900	0	0	0	119300	0	0	0
LLQQSQDPLLMGLFPTNPK	MYO19	Q96H55	MYO19	HUM	Oxidation (M)	1822200	1917000	957670	0	0	0	0	0	0
LLQSLLDTR	FLII	Q13045	FLII	HUMAN	Unmodified	717270	434120	532970	0	0	9573.7	0	0	0
LLQSNPVLEAFGNAK	MYO1C; MYO1B; M	O00159; O43795;	MYO1C	HUM	Unmodified	637820	0	537080	0	0	0	0	0	0
LLQSQLQVK	RBM17; RBM17; RB	Q96I25; Q5W011;	SPF45	HUM	Unmodified	2204500	1555100	1779800	28258	0	0	0	0	0
LLQTDDEEEAGLLELLK	CSE1L	P55060	XPO2	HUMA	Unmodified	1007400	398250	862720	0	0	0	0	0	0
LLQTGQER	MRPL47	Q9HD33	RM47	HUMA	Unmodified	4064500	5024900	3912000	195040	147300	186960	831840	787720	1038200
LLQTSNITK	PAK2; PAK3; PAK1;	Q13177; O75914;	PAK2	HUMA	Unmodified	3489600	2936900	3870600	145610	163910	104860	0	0	0
LLQTSNITKLEQK	PAK2; PAK3; PAK3	Q13177; O75914;	PAK2	HUMA	Unmodified	4288900	3288000	3319500	178170	105090	200000	0	0	0
LLQVTPADSGEYVCR	HSPG2	P98160	PGBM	HUM	Unmodified	0	0	243560	144830	129890	129080	12431	0	0
LLQVVEEPQALAAFLR	GRWD1; GRWD1	Q9BQ67; M0QX7	GRWD1	HUM	Unmodified	165930	0	0	0	0	0	0	0	0
LLQYSDALEHLLTTGQGVVLER	NDUFA10; NDUFA1	O95299; Q8N1B9	NDUAA	HUM	Unmodified	489510	0	0	0	0	0	0	0	0
LLRAEELIQEIQR	RABEP2; RABEP2; I	Q9H5N1; H3BT64	RABE2	HUM	Unmodified	398030	0	0	0	0	0	0	0	0
LLREEKDELGEQVLGLK	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B	HUM	Unmodified	1348400	1120800	1093500	0	0	0	0	0	0
LLRFQSSHHPTDITSLDQYVER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL	HUMA	Unmodified	684110	437610	502030	0	0	0	0	0	0
LLRYESSALPSGQLTSLSEYASR	TRAP1; TRAP1	Q12931; I3L0K7	TRAP1	HUM	Unmodified	0	1053100	1156100	0	0	0	0	0	0
LLSALCPEEPPVHSSAQIVSK	EIF2B3; EIF2B3	Q9NR50; H0YS80	EI2BG	HUM	Unmodified	0	0	753720	0	0	0	0	0	0
LLSAMLVSEGDLTEQKR	PDS5A	Q29RF7	PDS5A	HUM	Oxidation (M)	2176500	1253200	1637000	0	0	0	0	0	0
LLSASPVDAAIR	AAAS; AAAS; AAAS	Q9NRG9; F8VZ44	AAAS	HUMA	Unmodified	1113700	1092100	1113600	52880	71834	54683	0	0	0
LLSDATVEKDESHAGK	FAM50A	Q14320	FA50A	HUM	Unmodified	2649500	2213700	2177700	0	0	0	0	0	0
LLSDATVEKDESHAGKVVLR	FAM50A	Q14320	FA50A	HUM	Unmodified	1279200	1135000	957720	0	0	0	0	0	0
LLSDPNYGVHLPAVK	TMEM43	Q9BTV4	TMM43	HUM	Unmodified	1401000	1740600	1679300	0	0	0	0	0	0
LLSDSLPPSTGTFQEAQSR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	877810	1176700	1158600	46111	44880	30666	0	0	0
LLSDTVASDPGVLQEQLATTK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	2382400	2017700	1766200	0	0	0	0	0	0
LLSEAQR	ZNF552; ZNF587; ZN	Q9H707; Q96SQ5	ZN552	HUM	Unmodified	10653000	11154000	3727500	252160	273820	235780	0	0	0
LLSEEVFDFSSGQITQVK	XPO1; XPO1; XPO1;	O14980; A0A7Z9	XPO1	HUMA	Unmodified	2767000	1455700	1953700	0	0	0	0	0	0
LLSEGADVNAK	CLPB; CLPB; CLPB;	Q9H078; A0A2U3	CLPB	HUMA	Unmodified	2161400	1193500	1124800	37007	0	0	0	0	0
LLSELDQQSTEMPR	STAU1; STAU1	O95793; Q5JW30	STAU1	HUM	Oxidation (M)	2374100	1557100	1680900	0	0	0	0	0	0
LLSESAQPLK	TMX1	Q9H3N1	TMX1	HUM	Unmodified	3443800	4444100	3937600	52789	86225	60628	0	0	0
LLSESAQPLKK	TMX1	Q9H3N1	TMX1	HUM	Unmodified	1932400	1512000	1795800	59857	56618	73612	0	0	0
LLSGEDVGQDEGATR	SPTB	P11277	SPTB1	HUM	Unmodified	580460	561200	726710	0	0	0	0	0	0
LLSGMRESQGTEVSLR	KLHL33; KLHL33; K	A6NCF5; A0A1B	KLH33	HUM	Oxidation (M)	2438700	231520	0	0	0	0	0	0	0
LLSGPLDQVR	PTPN23	Q9H3S7	PTN23	HUM	Unmodified	1931200	1050800	900940	78310	95381	79526	0	0	10032
LLSGPSESPQTLGKESR	REPIN1; REPIN1; RE	Q9BWE0; E7EVL	REPI1	HUMA	Unmodified	245630	321540	276150	119350	132200	146100	45794	32471	26528
LLSGPYFWSLPSR	HSPG2	P98160	PGBM	HUM	Unmodified	2807100	2266000	3068400	0	0	0	0	0	0
LLSHHANIEALNK	ANKRD18A; ANKRI	Q8IVF6; A2A2Z9	AN18A	HUM	Deamidation (N)	4333300	4545100	3904100	197340	51530	61022	9899.4	0	8214.5
LLSISGKR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Unmodified	1563200	1561600	1448600	89269	74252	86137	0	0	0
LLSKEPNPPIDEVISTPGVVAR	KPNA1; KPNA1; KPI	P52294; C9J4U1;	IMA5	HUMA	Unmodified	491840	632410	499330	0	0	0	0	0	0
LLSKEPSPPIDEVINTPR	KPNA6; KPNA6; KPI	O60684; Q5TFJ7;	IMA7	HUMA	Unmodified	3110600	2510000	7155700	0	0	0	0	0	0
LLSKETSEELLPPPVQTQIK	NDUFAF2	Q8N183	NDUF2	HUM	Unmodified	0	1247300	1247100	0	0	0	0	0	0
LLSLDRLLASQGSQGAPLLSTPK	KIF22; KIF22	Q14807; H3BRB3	KIF22	HUMA	Unmodified	706470	413670	267480	0	0	0	0	0	0
LLSMGQLDLLR	POLR3F	Q9H1D9	RPC6	HUMA	Oxidation (M)	1072600	1204600	1338900	0	0	0	0	0	0
LLSMPGAQGAAAAGSEPPPATTSPEGQPK	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2	HUM	Oxidation (M)	1261300	1496900	0	0	0	0	0	0	0
LLSMTLSPDLHMR	TBCD; TBCD; TBCD	Q9BTW9; I3L3H4	TBCD	HUMA	2 Oxidation (M)	2332600	2136500	2286700	0	21511	0	0	0	0
LLSNDEVTIK	TFG; TFG; TFG; TFG	O92734; A0A6Q8	TFG	HUMAN	Unmodified	2652000	2550600	2855600	0	0	184130	0	0	0
LLSNDEVTIK	TFG; TFG; TFG; TFG	O92734; A0A6Q8	TFG	HUMAN	Deamidation (N)	1814000	1635300	4662700	124140	98823	137290	0	0	0
LLSNTVMPR	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Oxidation (M);Deai	24770000	27451000	1144400	0	945920	1377700	0	0	0
LLSNTVMPR	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Oxidation (M)	2357500	2410300	0	0	84305	0	0	0	0
LLSPFMPFVTEELFQR	VARS1; VARS1	P26640; A0A1401	SYVC	HUMA	Oxidation (M)	597110	214810	460210	0	0	0	0	0	0
LLSPILAR	VCPIP1	Q96JH7	VCIP1	HUM	Unmodified	767160	599350	279190	12735	0	10471	0	0	0
LLSPLSSAR	RAVER1; RAVER1	E9PAU2; A0A087	E9PAU2	HUM	Unmodified	5444500	5208900	5358200	197240	197450	180360	0	0	0
LLSPTER	DPP3; DPP3; DPP3;	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	6527500	315250	8359400	69021	0	0	0	0	0
LLSSEDIEGMR	METAP1	P53582	MAP11	HUM	Oxidation (M)	1040600	792560	791220	0	0	0	0	0	0
LLSSVTAELPEDKPR	QTRT2	Q9H974	QTRT2	HUM	Unmodified	1804100	1630600	1487600	70219	32621	0	0	0	0
LLSTDPVAAK	AP1B1; AP1B1	Q10567; C9J1E7	AP1B1	HUM	Unmodified	1878400	2617600	1500400	0	84124	84599	0	0	0
LLSTDPVTAK	AP2B1; AP2B1; AP2	P63010; A0A087	AP2B1	HUM	Unmodified	6769900	5883000	5748300	185390	161480	288440	0	0	0
LLSVNIR	EPRS1	P07814	SYEP	HUMA	Unmodified	3782800	3044600	4113300	161290	232410	220780	0	0	0
LLTAEADK	PLRG1	O43660	PLRG1	HUM	Unmodified	657150	0	0	33283	0	0	0	0	0
LLTAEADKTIK	PLRG1	O43660	PLRG1	HUM	Unmodified	3723800	0	3393200	134400	0	183430	0	0	0
LLTAEADKTIK	PLRG1	O43660	PLRG1	HUM	Methyl (KR)	441090	1193800	0	46388	0	54762	0	0	0
LLTAHELPLDAHVLEPDEDLQR	CACTIN; CACTIN	Q8WUQ7; K7ENV	CATIN	HUM	Unmodified	742180	612090	882670	0	0	0	0	0	0
LLTDILGIEDYNGDMDFK	PNPT1	Q8TCS8	PNPT1	HUM	Oxidation (M);Deai	209250	107210	157250	0	0	0	0	0	0
LLTEEGQK	SLC25A24	Q6NUK1	SCMC1	HUM	Unmodified	2832600	2210800	2311100	0	0	0	0	0	0
LLTEIHGGAGGPSGR	UBE2S; UBE2S	Q16763; K7EPJ1	UBE2S	HUM	Unmodified	829410	886340	1454900	0	0	0	0	0	0
LLTEKDAQIAMMQQR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	2 Oxidation (M)	7345900	7228000	5136700	423080	272070	0	0	0	0
LLTETEDWLYEEGEDQAK	HSPH1; HSPH1	Q92598; A0A0A0	HS105	HUM	Unmodified	2139200	0	1266500	0	0	0	0	0	0
LLTGPVVR	CHD7	Q9P2D1	CHD7	HUMA	Unmodified	1588000	1143400	1131600	0	0	0	0	0	0
LLTGVEYVVGR	NBN; NBN; NBN	O60934; E5RGU1	NBN	HUMA	Unmodified	1576400	1494700	0	0	0	0	0	0	0
LLTHTFVAQPGLSR	MAP4K5	Q9Y4K4	M4K5	HUMA	Unmodified	1678700	1358000	1661300	19313	34273	20984	0	0	0

LLTIGDANGEIQR	CARM1; CARM1; C/	Q86X55; K7EPK1	CARM1	HUN	Deamidation (N)	595620	463020	0	49300	66004	57787	0	0	0
LLTLEVPGVTESRPSVLR	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10	HUM	Unmodified	3869600	1680700	4002400	0	0	0	0	0	0
LLTLIKEL	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6	HUM	Unmodified	4785900	3614700	4261700	0	0	0	0	0	0
LLTLPNGER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Deamidation (N)	1057900	2496300	0	0	0	0	0	0	0
LLTPEAVEGWSDLVHCPSQR	DIPK2A	Q8NDZ4	DIK2A	HUM	Unmodified	0	0	3112900	0	0	0	0	0	0
LLTPTHSFLAR	MAP7; MAP7	Q14244; A0A087	MAP7	HUM	Unmodified	1633200	1912100	1557500	100180	107660	82672	0	0	0
LLTSFLPAQLLR	SLC3A2; SLC3A2; SI	P08195; A0A7P0	4F2	HUMAN	Unmodified	1113600	1007600	1146100	0	0	0	24023	0	0
LLTSGYLQR	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1	HUM	Unmodified	2419400	3198800	2438200	0	0	0	0	0	0
LLTTIGKDLDFEK	EIF4G1; EIF4G3; EIF	Q04637; O43432;	IF4G1	HUM	Unmodified	907790	793450	1206800	0	0	0	0	0	0
LLTTILHSDGDLTEQGK	PDS5B	Q9NTI5	PDS5B	HUM	Unmodified	3524100	980420	0	0	0	0	0	0	0
LLTVPFEK	PGLS; PGLS	O95336; M0R1L2	6PGL	HUM	Unmodified	16515000	11054000	8717000	351190	422290	457260	0	24464	0
LLTVPFEKHSTL	PGLS; PGLS	O95336; M0R1L2	6PGL	HUM	Unmodified	3554100	2646200	2697400	918690	725890	722380	194590	215330	12584
LLTVQHPLEESR	SCYL2; SCYL2; SCY	Q6P3W7; A0A0U	SCYL2	HUM	Unmodified	0	703920	845290	0	0	0	0	0	0
LLTWDVKDTLLR	HDHD3	Q9BSH5	HDHD3	HUM	Unmodified	854800	613400	565790	0	0	0	0	0	0
LLTWVIGTGSPR	GCN1	Q92616	GCN1	HUM	Unmodified	657540	626770	0	0	0	0	0	0	0
LLTYNAAR	ACADSB	P45954	ACDSB	HUM	Unmodified	1480800	2175500	2959600	89488	65281	113410	0	0	0
LLVALRELGETR	TPR	P12270	TPR	HUMAN	Unmodified	664530	531400	710370	0	0	0	0	0	0
LLVFSTDAGFHFAGDGK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	705030	0	614280	0	0	0	0	0	0
LLVFTAAGVKPQGK	PNKP; PNKP; PNKP;	Q96T60; M0QYI1	PNKP	HUM	Unmodified	1714400	1443000	1673600	26721	21195	29687	0	0	0
LLVGNDDVHIIAR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	4602700	0	2112400	0	0	0	0	0	0
LLVGNDDVHIIAR	HUWE1	Q7Z6Z7	HUWE1	HUM	Deamidation (N)	3057200	128640	1869000	53982	61779	0	0	0	0
LLVGNKSDLTTK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C	HUM	Deamidation (N)	1616100	1915100	1551000	0	0	44355	0	0	0
LLVGPTTLAQEGFLVDTPLAR	GGT6; GGT6; GGT6	Q6P531; B4DPG6	GGT6	HUM	Unmodified	0	251330	393100	0	0	0	0	0	0
LLVGSEDYGR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	0	1172800	1356700	0	0	0	0	0	0
LLVHQRMHTR	ZNF268	Q14587	ZN268	HUM	Unmodified	16652000	7397300	7472900	324130	329550	0	0	0	0
LLVHQRMHTR	ZNF268	Q14587	ZN268	HUM	Oxidation (M)	2518700	4834900	2450600	24948	31356	26743	0	0	0
LLVISGIPTHLDEGVVR	HECTD4; HECTD4; I	Q9Y4D8; J3KPF0	HECD4	HUM	Unmodified	1389600	1984800	1521100	0	0	0	0	0	0
LLVLITGGK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3	HUM	Unmodified	1196600	849760	766190	47800	48659	52325	24535	7578	10064
LLVPDIQEIR	KIF1A; KIF1A; KIF1/	Q12756; A0A3F2'	KIF1A	HUM	Unmodified	1921800	1552000	1614200	15306	13185	17347	0	0	0
LLVPGTYK	CPD; CPD	O75976; J3QQJ4	CBPD	HUM	Unmodified	1478900	1298800	1228300	29851	11442	20609	0	0	0
LLVPILLPEK	MPDU1; MPDU1; MI	O75352; J3QRD5	MPU1	HUM	Unmodified	656750	284290	646050	0	0	0	0	0	0
LLVPLVPDLQDVAQLR	ESYT1	Q9BSJ8	ESYT1	HUM	Unmodified	393270	122150	338170	0	0	0	0	0	0
LLVPQAQPPMPAQR	SMARCD2; SMARCI	Q92925; J3KMX2	SMRD2	HUM	Oxidation (M)	1874900	0	2062800	0	0	109140	0	0	0
LLVPTQFVGAIIGK	IGF2BP3	O00425	IF2B3	HUM	Unmodified	95884	135790	147760	0	0	0	0	0	0
LLVPYLMEAIR	HADH; HADH; HAD	Q16836; A0A1W2	HCDH	HUM	Oxidation (M)	4136800	3022700	3672500	0	0	0	0	0	0
LLVQHEINTLR	RGPD3; RGPD8; RA	A6NKT7; O14715	RGPD3	HUM	Unmodified	958930	765180	790790	0	0	0	0	0	0
LLVSASQDGK	GNB2; GNB4; GNB1	P62879; Q9HAV0	GBB2	HUM	Unmodified	3132700	4166800	5635500	0	0	0	0	0	0
LLVSMCQGNRDENQSINHQMAQEDAQR	ANXA7	P20073	ANXA7	HUM	2 Oxidation (M)	1131300	926830	0	0	0	85446	0	0	0
LLVTDMSDAEQYR	HAT1	O14929	HAT1	HUM	Oxidation (M)	2619800	5542300	2085300	0	0	0	0	0	0
LLVVDPETDEQLQK	SLC9A3R1; SLC9A3	O14745; J3QRP6	NHRF1	HUM	Unmodified	4917900	5432800	4525200	14495	47594	53659	0	0	0
LLVVTDPR	RPSA; RPSA; RPSA	P08865; A0A0C4I	RSSA	HUM	Unmodified	68370000	58427000	62177000	4221700	4049300	2812700	420740	336060	428000
LLYDLADQLHAAVGASR	ETFA; ETFA; ETFA;	P13804; H0YL12;	ETFA	HUM	Unmodified	1649500	1125600	1219300	9816.8	0	0	20946	0	14884
LLYGFLIK	NCSTN; NCSTN	Q92542; H0Y6T7	NICA	HUM	Unmodified	396560	327240	598650	0	0	0	0	0	0
LLYLLESTEDPVIIER	ARMC10; ARMC10;	Q8N2F6; C9J5N7;	ARM10	HUM	Unmodified	273770	0	286940	0	0	0	0	0	0
LLYMAIDGVAPR	XRN2	Q9H0D6	XRN2	HUM	Oxidation (M)	0	0	1153800	0	0	0	0	0	0
LLYNLEMEQMAK	ARFGEF1; ARFGEF2	Q9Y6D6; Q9Y6D'	BIG1	HUMA	2 Oxidation (M)	0	0	879230	0	0	0	0	0	0
LLYNLEMEQMAKTAK	ARFGEF1; ARFGEF2	Q9Y6D6; Q9Y6D'	BIG1	HUMA	2 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
LLYNNVSNFGR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUM	Unmodified	6519300	5329900	5565600	177980	136870	136760	0	0	0
LLYNNVSNFGR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	Deamidation (N)	12039000	11137000	12467000	579810	602860	558140	0	35038	34806
LLYNNVSNFGR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUMA	2 Deamidation (N)	0	927650	0	0	0	0	0	0	0
LLYPPETGLFLVR	CSK; CSK; CSK	P41240; H3BU69;	CSK	HUMAN	Unmodified	1796300	1966900	1441600	0	0	0	0	0	0
LLYVTPEK	BLM; BLM; BLM; B	P54132; A0A7P0	BLM	HUMA	Unmodified	4888200	5005800	5559800	0	0	0	0	0	0
LMADELER	DIAPH1; DIAPH1; DI	O60610; A0A0G2	DIAP1	HUM	Oxidation (M)	453490	468760	578890	0	0	0	0	0	0
LMAEDEEGYR	SMARCA4; SMARC	P51532; P51531; 1	SMCA4	HUM	Oxidation (M)	890850	728670	784140	0	0	0	0	0	0
LMAEDEEGYRK	SMARCA4; SMARC	P51532; P51531; 1	SMCA4	HUM	Oxidation (M)	1195600	1361600	1947600	0	0	0	0	0	0
LMAVPNLFMLETVDSVK	PLPBP; PLPBP; PLP	O94903; E5RFX7;	PLPHP	HUM	2 Oxidation (M)	730050	814800	755190	0	0	0	0	0	0
LMDEAVLALR	GCN1	Q92616	GCN1	HUM	Oxidation (M)	2850000	1412000	861530	66270	66313	60258	17711	0	0
LMDEVAGIVAAR	ACOT7; ACOT7	O00154; K7EKP8	BACH	HUM	Oxidation (M)	5291000	5060300	4283400	0	22892	0	0	0	0
LMDLDVEQLGIPEQEYSCVVK	PCNA	P12004	PCNA	HUM	Oxidation (M)	0	0	5873800	0	0	0	0	0	0
LMDLLGEGLKR	RARS1	P54136	SYRC	HUM	Oxidation (M)	2934200	4876500	3142100	89224	0	0	0	0	0
LMDMKREMEKK	CUX1; CUX1; CUX1	P39880; A0A2R8'	CUX1	HUMA	2 Oxidation (M);M	0	444900	0	0	0	0	0	0	0
LMDVGLIAR	STIP1	P31948	STIP1	HUM	Oxidation (M)	13126000	18632000	16050000	203570	123470	153940	0	17520	0
LMEDLDR	S100A6; S100A6	P06703; R4GN98	S10A6	HUM	Oxidation (M)	4233300	3689200	0	155950	131340	155070	13008	0	0
LMEEIMSEK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	2 Oxidation (M)	1656700	1791200	1620800	0	0	0	0	0	0
LMEEIMSEKENK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	2 Oxidation (M)	6934600	9269300	8665100	94105	105430	164670	0	0	0
LMELHGEGSSSGK	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A	HUMA	Oxidation (M)	11767000	9423400	0	0	0	550810	0	0	0
LMELQEAVR	MAPK8IP3; SPAG9;	Q9UPT6; O60271	JIP3	HUMAN	Oxidation (M)	1892900	971680	1304200	29610	0	0	0	0	0
LMEMSKDSLLGDKGQTAR	MCM7	P33993	MCM7	HUM	2 Oxidation (M)	5437100	4597100	5632500	39182	0	0	43191	0	0
LMENMRNDIASHPPVEGSYAPR	SND1; SND1	Q7KZF4; H7C597	SND1	HUMA	2 Oxidation (M);2 I	1301200	2203400	0	88624	89161	131390	0	0	0
LMETQEEDVVLLTAGEHNK	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM	HUM	Oxidation (M)	5738400	5302400	6593800	39749	0	0	0	0	0
LMFEELR	RTCB	Q9Y3I0	RTCB	HUMA	Oxidation (M)	1322200	1247200	1076200	0	55102	44991	0	0	0
LMGDYLLR	ZNRD2; ZNRD2; ZN	O60232; H0YEB6	ZNRD2	HUM	Oxidation (M)	1361300	1324000	1352200	39287	49290	39244	0	0	0
LMGEDEKPAAK	PFDN2	Q9UHV9	PFD2	HUMA	Oxidation (M)	860850	627600	606870	242650	158550	66886	0	0	0
LMGEDEKPAAKENSEGAGAK	PFDN2	Q9UHV9	PFD2	HUMA	Oxidation (M);Deai	10779000	0	2242800	0	0	0	0	0	0
LMGLEALK	CCT5; CCT5; CCT5;	P48643; D6RIZ7;	TCPE	HUMA	Oxidation (M)	1548200	542300	1336000	0	0	0	0	0	0
LMGRTSGYDAR	GLRA2; GLRA1; GL	P23416; P23415; (	GLRA2	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
LMIEMDGTENK	ENO1; ENO1; ENO1;	P06733; A0A2R8'	ENOA	HUM	2 Oxidation (M);De	1315000	1852400	2252400	0	0	0	0	0	0
LMIEMDGTENKSK	ENO1; ENO1; ENO1;	P06733; A0A2R8'	ENOA	HUM	2 Oxidation (M);De	1431700	1432700	1086800	0	0	0	0	0	0
LMIENPYETR	UNC119B	A6NIH7	U119B	HUM	Oxidation (M)	442970	531340	751500	38381	44288	28350	0	0	0
LMIWDTR	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7	HUM	Oxidation (M)	5572900	5425300	5074500	49575	50184	54274	0	0	0
LMMDPLSGQNR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	2 Oxidation (M)	14167000	797560	14579000	253600	342180	343010	0	0	0
LMMDPLSGQNR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	2 Oxidation (M);De	2772100	2422000	3225900	91576	0	0	0	0	0
LMMDPLTGLNR	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	2 Oxidation (M)	7311200	7592600	8029500	0	0	0	0	0	0
LMMDPLTGLNR	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	2 Oxidation (M);De	602950	732780	617790	0	30355	0	0	0	0
LMMSELENR	AK4; AK4	P27144; F8VS11	KAD4	HUMA	2 Oxidation (M)	990290	955110	976030	0	87357	38496	0	0	0
LMNANGRSVAR	PTRH1; PTRH1; PTR	Q86Y79; A0A096	PTH	HUMAN	Oxidation (M);Met	0	0	0	0	171220	0	0	0	0
LMPDKESMYYPR	GDAP1; GDAP1; GD	Q8TB36; A0A6Q8	GDAP1	HUM	2 Oxidation (M)	5713900	6021400	5817300	185810	185020	0	0	26645	0
LMPEIVATASK	GCN1	Q92616	GCN1	HUM	Oxidation (M)	1762400	968270	1089800	33615	25380	30017	0	0	0
LMPGQDPEK	FKBP10; FKBP10	Q96AY3; H0Y827	FKB10	HUM	Oxidation (M)	607860	497110	609210	0	0	0	0	0	0
LMPTQWR	CDC5L	Q99459	CDC5L	HUM	Oxidation (M)	1924200	1736700	1576700	51370	59499	50837	0	0	0
LMQITSLHSLNAFLLPIK	GMPS	P49915	GUAA	HUM	Oxidation (M)	3725600	1928500	1492900	0	0	0	0	0	0
LMQITSLHSLNAFLLPIK	GMPS	P49915	GUAA	HUM	Oxidation (M);Deai	345990	355770	413590	0	0	0	0	0	0
LMQLMESEQK	KTN1	Q86UP2	KTN1	HUMA	2 Oxidation (M)	1073400	1245600	1284900	0	0	0	0	0	0
LMQLVDHR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Oxidation (M)	1033200	0	888380	0	0	0	107330	0	0
LMRFDDPLLGPR	LARS1; LARS1; LAI	Q9P2J5; A0A6B'	SYLC	HUMA	Oxidation (M)	0	0	667290	101440	131810	29507	0	0	0
LMSELYHPDDHVL	EIF2B2	P49770	EI2BB	HUM	Oxidation (M)	826090	600040	727780	36002	22895	32306	0	0	0
LMSNALSTVTR	MTCH1; MTCH1	Q9NZJ7; H0Y8C3	MTCH1	HUM	Oxidation (M)	0	1676700	1993700	51294	38564	42604	0	0	0
LMSSHLPIQIFTK	SULT2B1	O00204	ST2B1	HUM	Oxidation (M)	2493300	1515000	1541900	0	0	0	0	0	0
LMSTVDPK	SRSF11; SRSF11; SR	Q05519; Q5T760;	SRS11	HUM	Oxidation (M)	1790300	2632000	2173200	0	0	0	0	0	0
LMTDTINEPILLCR	NARS1	O43776	SYNC	HUMA	Oxidation (M)	0	1165500	1075400	51024	30198	21184	0	0	0
LMTEILGR	NUDT21; NUDT21; !	O43809; H3BV41	CPSF5	HUM	Oxidation (M)	1062800	1034100	1772700	0	0	0	0	0	0
LMTPKPVSIATNR	NUP153	P49790	NU153	HUM	Oxidation (M);Deai	1242700	1087800	1444800	65750	109110	126280	0	0	0
LMTPKPVSIATNR	NUP153	P49790	NU153	HUM	Oxidation (M)	429900	398370	522090	0	38685	32323	0	0	0
LMTQAQLEEATR	MRPS22; MRPS22; M	P82650; A0A7P0	RT22	HUMA	Oxidation (M)	691430	651830	1092200	0	0	31936	0	0	0
LMVEFPLDPALSK	DHX38	Q92620	PRP16	HUM	Oxidation (M)	1133800	0	981470	0	0	0	0	0	0
LMVEPLQAILIR	CUL2; CUL2; CUL2	Q13617; Q5T2B5;	CUL2	HUMA	Oxidation (M)	1437600	920660	960740	0	0	0	0	0	0
LMVMEIR	PSME1; PSME1	Q06323; H0YKK6	PSME1	HUM	2 Oxidation (M)	2773900	2749200	0	0	0	0	0	0	0
LMVTGAAPVSATVLTFLR	ACSL1; ACSL1; ACS	P33121; B7Z3Z9;	ACSL1	HUM	Oxidation (M)	289290	105610	158640	0	0	0	0	0	0
LMWIPDTK	DCAF7	P61962	DCAF7	HUM	Oxidation (M)	919180	692220	850940	16955	0	0	0	0	0
LNAFKADTPSLGEGPEK	STXBP2; STXBP2	Q15833; M0R0M7	STXB2	HUM	Unmodified	562500	475720	651160	0	0	0	0	0	0
LNDFASTVR	COX5A; COX5A; CC	P20674; H3BRM5	COX5A	HUM	Unmodified	3615700	3386400	4278000	82252	0	32874	0	0	0
LNDFASTVR	COX5A; COX5A; CC	P20674; H3BRM5	COX5A	HUM	Deamidation (N)	0	1263200	1456100	0	0	0	0	20569	0
LNDMIDAIPKSK	GGNBP2; GGNBP2	Q9H3C7; A0A087	GGNB2	HUM	Oxidation (M);Met	2376500	2197700	2433600	189220	193180	235850	0	0	29590
LNDSIAEELNKK	POLR3H; POLR3H; I	Q9Y535; E7ERZ2	RPC8	HUMA	Methyl (KR);Deam	0	1280200	0	0	0	0	0	0	0
LNDSILQATEQR	DSP	P15924	DESP	HUMA	Unmodified	3201400	1274400	3046300	108680	108570	115880	0	0	0
LNDSILQATEQR	DSP	P15924	DESP	HUMA	Deamidation (N)	1650300	0	2665400	18131	71508	0	0	0	0
LNDSILQATEQRR	DSP	P15924	DESP	HUMA	Unmodified	2108200	1920500	1463800	0	0	0	0	0	0
LNEAAAGLNQAATELVQASR	TLN1	Q9Y490	TLN1	HUMA	Deamidation (N)	3415300	2010300	1727900	44191	32967	0	0	0	0
LNEAAAGLNQAATELVQASR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	5718800	5416200	5088700	0	0	0	0	0	0
LNEEIER	CDC42BPB	Q9Y5S2	MRCKB	HUM	Unmodified	0	1126700	0	0	82612	91709	0	0	0
LNEFLELERHNNNMMAK	SPECC1; SPECC1; S	Q5M775; J3QS22;	CYTSB	HUM	Oxidation (M);2 M	247230	0	0	0	0	0	0	0	0
LNEGVVEFASYGDLKNAIEK	SRSF5	Q13243	SRSF5	HUM	Unmodified	834790	463320	0	0	0	0	0	0	0
LNEHFLNTTDFLDTIK	IDH2; IDH2	P48735; H0YL11	IDHP	HUMA	Deamidation (N)	8318700	5825200	6580400	0	0	0	0	0	0
LNEHFLNTTDFLDTIK	IDH2; IDH2	P48735; H0YL11	IDHP	HUMA	2 Deamidation (N)	889090	1034600	898190	0	0	0	0	0	0
LNEHFLNTTDFLDTIK	IDH2; IDH2	P48735; H0YL11	IDHP	HUMA	Unmodified	8042700	6656300	7317500	0	0	0	0	0	0
LNEHFLNTTDFLDTIKSNLDR	IDH2; IDH2	P48735; H0YL11	IDHP	HUMA	Unmodified	760920	0	670210	0	0	0	0	0	0
LNEILFPFYDAK	PLCB4; PLCB4	Q15147; A0A7P0	PLCB4	HUM	Unmodified	322220	348520	358250	0	0	0	0	0	0
LNELEAQTR	KDM5C; KDM5D; K	P41229; Q9BY66;	KDM5C	HUM	Unmodified	882800	591310	313240	0	0	0	0	0	0
LNELESDLTFK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LNELLVK	TRAP1; TRAP1; TRA	Q12931; E1L0K7;	TRAP1	HUM	Unmodified	1451800	989420	4697200	0	0	0	0	0	0
LNELMSQIR	NUP54	Q7Z3B4	NUP54	HUM	Oxidation (M)	381660	331630	0	0	0	0	0	0	0
LNEQASEEILK	SET; SET	Q01105; A0A0C4	SET	HUMAN	Unmodified	8361300	7751900	8365500	0	0	0	0	0	0

LNEQASEEILK	SET; SET	Q01105; A0A0C4	SET	HUMAN	Deamidation (N)	969190	3139200	465590	0	0	0	0	0	0
LNEQASEEILKVEQK	SET; SET	Q01105; A0A0C4	SET	HUMAN	Unmodified	1451100	1016500	1079400	0	0	0	0	0	0
LNEQQSVLQR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	5205100	4425000	5402300	125360	116110	151480	106770	110410	0
LNERHYGGLTGLNKAETAAK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1	HUM	2 Deamidation (N)	1634500	1858700	1585100	0	0	0	0	0	0
LNERHYGGLTGLNKAETAAK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1	HUM	Deamidation (N)	2808700	2153800	2623800	0	0	0	0	0	0
LNERHYGGLTGLNKAETAAK	PGAM1; PGAM4; PC	P18669; Q8N0Y7;	PGAM1	HUM	Unmodified	1048100	914640	1104400	0	0	65197	0	0	0
LNESTFDTQITK	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	881040	1057200	772280	0	0	0	0	0	0
LNFAVASR	PDIA3	P30101	PDIA3	HUM	Unmodified	3392900	4304200	3863500	58257	53237	57723	0	0	0
LNFAVASR	PDIA3	P30101	PDIA3	HUM	Deamidation (N)	0	506630	506120	0	0	0	0	0	0
LNFGDDIPSALR	STUB1; STUB1; STU	Q9UNE7; H3BUD	CHIP	HUMA	Unmodified	1492100	1308900	951700	0	0	0	0	0	0
LNFSGFGYSLPQQQPAAVAR	ASCL1	P50553	ASCL1	HUM	Unmodified	625670	592520	474390	0	0	0	0	0	0
LNFSGFGYSLPQQQPAAVAR	ASCL1	P50553	ASCL1	HUM	Deamidation (N)	359850	254210	461970	0	0	0	0	0	0
LNFSHGTHEYHAETIK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	15786000	18853000	14949000	107400	286940	117740	0	0	0
LNFSHGTHEYHAETIK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Deamidation (N)	11848000	11764000	18239000	460790	177470	219450	0	0	0
LNFSHGTHEYHAETIKNVR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	21244000	19721000	22455000	93357	68438	125710	0	0	0
LNFSHGTHEYHAETIKNVR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Deamidation (N)	11473000	726430	11840000	127100	236930	220650	0	52665	0
LNFSHGTHEYHAETIKNVR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Methyl (KR)	1084600	950350	870710	0	0	0	0	0	0
LNGGRHVQGILR	SNRPG; SNRPGP15;	P62308; A8MWD9	RUXG	HUM	Deamidation (N)	516390	872070	597080	66182	32338	0	0	0	0
LNGTLREDDNR	SF1; SF1	Q15637; A0A7P0	SF01	HUMA	Deamidation (N)	4448600	4901700	4973400	242080	205330	252850	0	0	0
LNIGGGGLGYR	DDX42; DDX42	Q86XP3; A0A0A	DDX42	HUM	Unmodified	751570	920560	456530	52282	0	0	0	0	0
LNILDTLSK	PSMD2; PSMD2	Q13200; H7C1H2	PSMD2	HUM	Unmodified	810040	1005600	900130	0	0	0	0	0	0
LNIPVSQVNPR	ATP1A1; ATP1A3; N	P05023; P13637;	AT1A1	HUM	Unmodified	22077000	21007000	21650000	1053600	1145500	1084300	23321	26925	24457
LNIPVSQVNPRDAK	ATP1A1; ATP1A3; N	P05023; P13637;	AT1A1	HUM	Unmodified	1697200	449500	0	62739	122800	65320	14113	0	0
LNITVVQAK	TOLLIP; TOLLIP	Q9H0E2; E7EN89	TOLIP	HUM	Unmodified	2291500	990650	2390500	37679	0	46476	0	0	0
LNITYPMLFK	UFD1; UFD1; UFD1	Q92890; C9IZG3;	UFD1	HUMA	Oxidation (M)	1703400	0	0	0	0	0	0	0	0
LNIWGEAR	GTF3C1; GTF3C1	Q12789; H3BU55	TF3C1	HUM	Unmodified	1137500	960740	388310	33796	0	28821	0	0	0
LNLDKMMEQK	DLD; DLD	P09622; E9PEX6	DLDH	HUM	2 Oxidation (M)	1529300	1043200	1509600	0	0	0	0	0	0
LNLDSIIGR	PPP1CA; PPP1CA	P62136; E9PMD7	PP1A	HUMA	Unmodified	580580	981510	916660	0	0	0	24830	16992	0
LNLEAINYMAADGDFK	LGALS1	P09382	LEG1	HUMA	Oxidation (M)	801870	457200	864820	0	0	0	0	14602	0
LNLGGDFIK	YIPF4; YIPF4	Q9BSR8; H7C0D5	YIPF4	HUMA	Unmodified	565770	1159100	881260	36438	0	32744	0	0	0
LNLGGDFIKESTATTFLR	YIPF4; YIPF4	Q9BSR8; H7C0D5	YIPF4	HUMA	Unmodified	692090	397500	1125300	0	0	0	0	0	0
LNLGTVGFYR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA	HUMAN	Unmodified	6241400	3980400	4044200	0	0	0	0	11167	0
LNLPINIIGLAPLCENMPSGK	LAP3	P28838	AMPL	HUM	Oxidation (M)	0	150220	311740	0	0	0	0	0	0
LNLQFLTLHDYLLR	AQR; AQR	O60306; H0YH15	AQR	HUMA	Unmodified	379780	71859	211910	0	0	0	0	0	0
LNLSQVR	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUM	Unmodified	3242900	2658000	2318200	31556	20957	28120	0	0	0
LNLVEAFVEDAELR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	428800	0	216860	0	0	0	0	0	0
LNMATLR	DHX9	Q08211	DHX9	HUMA	Oxidation (M);Deai	1973400	1998600	1720900	63123	60799	56487	0	0	0
LNMELSEK	ERP29	P30040	ERP29	HUM	Oxidation (M)	0	736150	0	17120	0	0	0	0	0
LNPINTTLLK	NDRG3; NDRG3; NI	Q9UGV2; F8WBF	NDRG3	HUM	Unmodified	1665800	1216400	1006200	133320	0	114710	0	0	0
LNPKKYEGGRELSDFISYLQR	PDIA3	P30101	PDIA3	HUM	Methyl (KR)	2442500	0	0	26000	25838	0	0	0	0
LNPQEYLTSTACRR	SMARCC2; SMARC	Q8TAQ2; Q92922	SMRC2	HUM	Unmodified	992500	1075700	877310	0	0	0	0	0	0
LNPQYPMFR	PPP2R5D; PPP2R5D	Q14738; H0Y8C4	2A5D	HUMA	Oxidation (M)	2135100	1942100	2042500	139280	55399	0	0	0	0
LNPTWNHPDQDTEAGFKR	MYG1; MYG1	Q9HB07; F8VR84	MYG1	HUM	Unmodified	1626500	759780	729310	18689	0	0	0	0	0
LNQALLDLHALGSAR	FTL	P02792	FRIL	HUMA	Unmodified	3097800	2873700	3390600	24106	17068	8852.6	0	0	0
LNQDQLDAVSK	CAPRIN1; CAPRIN1	Q14444; G3V153;	CAPR1	HUM	Unmodified	828180	796600	0	0	0	0	0	0	0
LNQLKPGLQYK	ILF3	Q12906	ILF3	HUMA	Unmodified	13659000	14421000	13405000	148870	179950	221130	0	0	0
LNQLKPGLQYK	ILF3	Q12906	ILF3	HUMA	Deamidation (N)	2666400	3870100	4500700	64392	55065	0	0	0	0
LNQLWEK	LRPAP1; LRPAP1; L	P30533; D6REW6	AMRP	HUM	Unmodified	894790	345160	778570	0	0	0	0	0	0
LNQPGTPTR	MAP2K2; MAP2K2;	P36507; G5E9C7;	MP2K2	HUM	Unmodified	1677600	2237000	1792700	0	64288	53066	0	13496	0
LNQPPEDGISSVK	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUMA	Unmodified	529010	544600	430900	0	0	0	0	0	0
LNQPQPDFTK	MYO1D; MYO1D	O94832; K7EIG7	MYO1D	HUM	Unmodified	3392300	2888100	3602500	0	0	0	0	0	0
LNQPQPDFTKNR	MYO1D; MYO1D	O94832; K7EIG7	MYO1D	HUM	Deamidation (N)	1804300	2604200	1786300	0	168700	43543	0	0	8207.1
LNQPQPDFTKNR	MYO1D; MYO1D	O94832; K7EIG7	MYO1D	HUM	Unmodified	0	0	0	367650	370850	379190	13069	0	0
LNQQMAKMMDPR	SRP54; SRP54; SRP5	P61011; G3V480;	SRP54	HUM	2 Oxidation (M);M	481120	0	0	72152	0	62970	0	0	0
LNQQPSQGLGPR	GNL1; GNL1	P36915; A2AB27	GNL1	HUMA	Unmodified	1060400	889830	2135000	155850	123500	140590	0	0	0
LNQSQREELGLIEQAYDNPHEALSR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8	HUMA	Deamidation (N)	808720	908580	0	0	0	0	0	0	0
LNQYFQK	DHX9	Q08211	DHX9	HUMA	Unmodified	6817200	8772700	10819000	0	0	0	0	0	0
LNQYFQKEK	DHX9	Q08211	DHX9	HUMA	Unmodified	592460	344690	427340	0	0	33151	0	0	0
LNRLPAAGVGDMVMATVK	RPL23; RPL23; RPL	P62829; J3KT29;	RL23	HUMA	2 Oxidation (M)	1969500	2320300	1682100	0	0	0	0	0	0
LNRLPAAGVGDMVMATVK	RPL23; RPL23; RPL	P62829; J3KT29;	RL23	HUMA	2 Oxidation (M);De	1614500	2356300	0	24199	25416	11202	0	0	0
LNSELQQQLKDVLEER	REPS1; REPS1; REP	Q96D71; H0YDT(	REPS1	HUM	Unmodified	1305500	771540	2371900	0	0	0	0	0	0
LNSELQQQLKDVLEER	REPS1; REPS1; REP	Q96D71; H0YDT(	REPS1	HUM	Deamidation (N)	716480	1208600	1446100	0	0	0	0	0	0
LNSELQQQLKEVHQER	REPS2	Q8NFH8	REPS2	HUM	Unmodified	670930	389030	533090	0	0	0	0	0	0
LNSNTQVVLLSATMPSDVLEVTK	EIF4A1; EIF4A1; EIF	P60842; J3KTN0;	IF4A1	HUMA	Oxidation (M);Deai	1264200	0	0	0	0	0	0	0	0
LNSVQSSERPLFLVHPIEGSTTVFHSLASR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Unmodified	5630300	3985700	3689900	0	0	0	0	0	0
LNSVQSSERPLFLVHPIEGSTTVFHSLASR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Deamidation (N)	14581000	10116000	14435000	0	0	0	0	0	0
LNTDPMLLQFFK	USP7; USP7; USP7	Q93009; A0A669	UBP7	HUMA	Oxidation (M)	1839400	1329400	1414400	0	0	0	0	0	0
LNTEWSELENLVLK	P4HA1	P13674	P4HA1	HUM	Unmodified	65660	49976	78709	0	0	0	0	0	0
LNTLLQR	MYO18B; HNRNPU;	Q8IUG5; Q00839;	MY18B	HUM	Deamidation (N)	6547200	7183500	1297700	0	0	0	0	0	0
LNTLLQR	MYO18B; HNRNPU;	Q8IUG5; Q00839;	MY18B	HUM	Unmodified	18700000	14446000	18981000	158000	137520	186600	0	8453.3	0
LNTQEIFDDWAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	271620	543460	743890	0	0	0	0	0	0
LNTVASPK	SPEN	Q96T58	MINT	HUMA	Unmodified	284240	0	0	0	0	0	0	0	0
LNVFAKPEATEVSPNK	BCAM; BCAM; BCA	P50895; A0A087	BCAM	HUM	Unmodified	639860	586640	860550	0	0	66682	0	0	0
LNVFKNDQDTWDYTNPNLSGQGDPGSNPNKR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Unmodified	1938600	1657800	1500800	0	0	0	0	0	0
LNVFKNDQDTWDYTNPNLSGQGDPGSNPNKR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Deamidation (N)	4160600	5513200	4182000	0	0	0	0	0	0
LNVFKNDQDTWDYTNPNLSGQGDPGSNPNKR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	2 Deamidation (N)	0	0	2697200	0	0	0	0	0	0
LNVGAPDVTLR	AHNAK	Q09666	AHNK	HUM	Unmodified	658130	1061100	0	259780	284300	362350	81017	0	28962
LNVTEQEK	ENO1; ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	24211000	21305000	24621000	0	0	0	0	0	0
LNVTEQEK	ENO1; ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Deamidation (N)	1689600	1480900	0	0	0	0	0	0	0
LNVTEQEKIDK	ENO1; ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	3358700	2914200	4370100	0	22559	0	0	0	0
LNVTEQEKIDK	ENO1; ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Methyl (KR)	4954300	4107900	4203300	0	0	0	0	0	0
LNVTEQEKIDKLMIEMDGTENK	ENO1; ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	2 Oxidation (M)	6223600	2130100	3339300	0	0	0	0	0	32225
LNVTPLAR	ACAT1; ACAT1; AC	P24752; A0A5F9	THIL	HUMA	Unmodified	7906700	4714100	4959900	444940	422640	518980	68920	59921	72100
LNVWDLSK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7	HUM	Unmodified	21450000	4598600	18111000	277020	266900	180710	0	9443.9	11988
LNWIELEER	N/A	N/A	N/A		Unmodified	0	525660	1147400	0	0	14450	0	0	0
LNYSLDVRSLNPMR	N/A	N/A	N/A		Oxidation (M);Deai	0	870280	1714200	73957	51332	67133	0	21267	0
LPAELQELPGLSHQYWSAPSDK	APEX1; APEX1; APE	P27695; A0A0C4	APEX1	HUM	Unmodified	2733600	2329600	2691900	0	0	0	0	0	0
LPANHPLLTGQR	ATP6V1A	P38606	VATA	HUM	Unmodified	970770	919050	1695600	0	0	0	0	0	0
LPASFDAR	CTSB; CTSB; CTSB;	P07858; E9PSG5;	CATB	HUM	Unmodified	11793000	13441000	13393000	842890	607600	896400	106340	108050	8965
LPASFDAREQWPQCPTIK	CTSB; CTSB; CTSB;	P07858; E9PSG5;	CATB	HUM	Unmodified	0	534970	557540	23294	18636	0	0	0	0
LPAVEPTDQAQYLCR	HSPG2	P98160	PGBM	HUM	Unmodified	561810	798180	3108000	86874	91342	92414	30154	0	40434
LPAVVTADLR	ETFB; ETFB	P38117; M0QY67	ETFB	HUMA	Unmodified	881150	711290	696770	23062	18395	24069	0	0	0
LPAYFVVPTPLPEENVQR	MTMR12	Q9C0I1	MTMRC	HUM	Unmodified	626040	673580	720170	0	0	0	0	0	0
LPAYLTIQMVR	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Oxidation (M)	1819000	1257500	1500800	0	0	0	0	0	0
LPDFESR	DSG2	Q14126	DSG2	HUM	Unmodified	1360000	1862800	1898300	60587	55569	74735	0	0	0
LPDGFTQLR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	2219100	1498300	2907600	0	0	0	0	0	0
LPDGSEIPLPPILLGR	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2	HUM	Unmodified	1468500	1126400	1317900	0	0	0	0	0	0
LPDGSSFTNQFPSDAPLEEAR	UBXN4	Q92575	UBXN4	HUM	Unmodified	273600	304580	253390	0	0	0	0	0	0
LPEAAFLAR	COPB2; COPB2; COI	P35606; H0YAC7	COPB2	HUM	Unmodified	2060000	2510400	1567700	48689	53054	54916	9607.1	0	0
LPEAVQLIEK	NAPG; NAPG	Q99747; J3KTJ6	SNAG	HUM	Unmodified	1285000	1106500	973810	0	0	0	0	0	0
LPEDPLLSGLLDSPALK	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Unmodified	1557500	641040	1495700	0	0	0	0	0	0
LPEFSFEK	LNPK	Q9C0E8	LNP	HUM	Unmodified	1995600	1392200	1092500	0	60050	0	19812	0	0
LPEGDLGK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14;	IF5A1	HUMA	Unmodified	16542000	16589000	408690	0	0	129020	0	0	0
LPEGDLGKEIEQK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14;	IF5A1	HUMA	Unmodified	3391000	0	3108300	163300	97737	177920	0	0	0
LPEGDLGKEIEQK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14;	IF5A1	HUMA	Methyl (KR)	499230	0	372190	0	0	0	0	0	0
LPEHCIEYVR	UBA3; UBA3	Q8TBC4; F8WSD	UBA3	HUMA	Unmodified	1154800	1428300	1592800	0	63740	57680	0	0	0
LPELAPTAPLPYPAPEASGPPAVAPR	VPS37B; VPS37B	Q9H9H4; F5H4M(	VPS37B	HUM	Unmodified	744380	796560	0	0	0	0	0	0	0
LPELFETGR	IGBP1	P78318	IGBP1	HUM	Unmodified	1616400	1249100	1411900	18235	20048	18173	0	0	0
LPEPTTR	RRS1	Q15050	RRS1	HUMA	Unmodified	4891000	4044600	4952900	108680	149700	140130	0	0	0
LPEQPVDVPSEIADSSMTRPQELPELPK	SON	P18583	SON	HUMAN	Oxidation (M)	2805900	2203200	2791900	0	0	0	0	0	0
LPESVER	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1	HUM	Unmodified	390810	642790	658900	0	0	0	0	0	0
LPETNLFETEETR	KARS1	Q15046	SYK	HUMAN	Unmodified	760160	0	1420100	0	32833	0	0	0	0
LPETNLFETEETRK	KARS1	Q15046	SYK	HUMAN	Unmodified	1676100	1184300	1105600	0	49239	51121	0	0	0
LPEVQQATK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	Unmodified	0	818470	1064200	0	0	0	0	0	0
LPEYPQVDDLLLR	EIF2B4; EIF2B4; EIF	Q9UI10; A0A087	EI2BD	HUM	Unmodified	306950	254920	354700	0	0	0	0	0	0
LPEYTLSQEGGPAHK	PRKRA; PRKRA; PR	O75569; B4DJC7;	PRKRA	HUM	Unmodified	2324700	1962500	2755400	0	0	0	0	0	0
LPEYTLSQEGGPAHKR	PRKRA; PRKRA; PR	O75569; B4DJC7;	PRKRA	HUM	Unmodified	2340300	3683000	3408600	0	0	39640	0	0	0
LPFPIDDR	PRDX6	P30041	PRDX6	HUM	Unmodified	12576000	8852900	10021000	62897	64046	62595	32864	32407	0
LPFPIIDDRNR	PRDX6	P30041	PRDX6	HUM	Unmodified	371810	420790	332120	0	0	0	0	0	0
LPFTPLSYIQGLSHR	TMCO1; TMCO1; TN	Q9UM00; J3KS45	TMCO1	HUM	Unmodified	5746600	3743400	3994600	0	0	0	0	0	0
LPGAIDVIGQTITISR	FIP1L1; N/A	Q6UN15; A0A0B4	FIP1	HUMAN	Unmodified	442210	443400	343580	0	0	0	0	0	0
LPGDKGLVLMSR	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Oxidation (M)	5137000	5302900	5225800	196570	210970	200590	0	14064	25009
LPGEYFR	SULT2B1	O00204	ST2B1	HUM	Unmodified	1263700	1183100	993080	20503	0	0	0	0	0
LPGGELNPGEDEVEGLKR	NUDT21; NUDT21; N	O43809; H3BV41	CPSF5	HUM	Unmodified	759470	846460	745110	0	0	0	0	0	0
LPGGVQNFPQFSALR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	424290	394340	391090	0	0	0	0	0	0
LPGKWPFSLSEQQLDAR	SNX27; SNX27; SNX	Q96L92; A0A5H1	SNX27	HUM	Unmodified	703250	0	849650	0	0	0	0	0	0
LPGLLGNFPGPFEEEMK	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1	HUM	Oxidation (M)	773760	887700	858360	0	0	0	0	0	0
LPGSVGTPLPGVQVR	ACSF3; ACSF3; ACS	Q4G176; F5H5A1	ACSF3	HUM	Unmodified	0	1255100	1094700	24173	20377	25337	0	0	0
LPIFFGTHETAFLGPK	PSIP1	O75475	PSIP1	HUM	Unmodified	992270	688560	1386200	0	0	0	0	0	0
LPIGDVATQYFADR	CCT7	Q99832	TCPH	HUMA	Unmodified	251760	238030	0	10946	0	0	0	0	13288
LPIGNTIQPSQAATFMNDAIEK	PRPF3	O43395	PRPF3	HUM	Oxidation (M);2 De	0	0	0	0	0	0	0	0	0
LPIPESQVITINPELPVEEAAEDYAK	PGLS; PGLS; PGLS;	O95336; M0R1L2	6PGL	HUMA	Unmodified	928950	900290	833160	0	0	0	0	0	0

LPIPRPGEVLGLVGTNGIGK	ABCE1; ABCE1; ABI	P61221; H0Y990;	ABCE1	HUM	Deamidation (N)	988570	737810	1165000	0	0	0	0	0	0
LPIQEFHLSR	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Unmodified	2744600	3285800	3775000	0	0	0	0	0	0
LPKMVGVPAALDMMLTGR	HADHA; HADHA; H	P40939; H0YFD6;	ECHA	HUM	3 Oxidation (M)	550210	679110	788940	35105	0	15626	0	0	0
LPLCSLPGEPGNGPDQQLQR	ATXN7L3B	Q96GX2	A7L3B	HUM	Deamidation (N)	324750	296200	620650	16824	0	0	0	0	0
LPLFPEPLHVFAPR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1	HUM	Unmodified	240270	318360	404190	0	0	0	0	0	0
LPLHTLTSSTPVVLVR	TMEM11	P17152	TMM11	HUM	Unmodified	3356800	2035600	2576200	0	0	0	0	0	0
LPLILVGNK	RHOT1; RHOT1	Q8IXI2; H7BXZ6	MIRO1	HUM	Unmodified	417860	564010	313440	0	0	0	0	0	0
LPLLPPESPGPLR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	4372500	1270700	1692000	0	15351	21481	0	0	0
LPLMECVQMTK	PFKL	P17858	PFKAL	HUM	2 Oxidation (M)	3732800	1496700	5057900	0	0	0	0	0	0
LPLMECVQMTQDVQK	PFKP; PFKP; PFKP	Q01813; A0A7Z\	PFKAP	HUM	2 Oxidation (M)	2303200	2211800	2648500	0	0	0	0	0	0
LPLPEPWR	MYG1; MYG1; MYG	Q9HB07; F8VQQ2	MYG1	HUM	Unmodified	2776000	2521100	2218900	29699	31437	35911	0	0	0
LPLPSPALEYTLGSR	IRF2BP1	Q8IU81	IF2BP1	HUM	Unmodified	3053200	3568600	2977900	11517	0	0	0	0	0
LPLPYGFSAMQGWR	PPM1G	O15355	PPM1G	HUM	Oxidation (M)	27834000	19354000	23107000	15877	0	0	0	0	12393
LPLQDVYK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2	HUM	Unmodified	56244000	60936000	53537000	950880	1000200	817140	0	88980	80401
LPLQDVYKIGGIGTVPVGR	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2	HUM	Unmodified	2324500	2376500	2550100	0	0	0	0	0	0
LPLQLDDAVRPEAEGEEEGR	DARS1; DARS1; DAI	P14868; C9JLC1;	SYDC	HUM	Unmodified	11251000	8349700	7435800	245340	40003	159390	0	14878	20748
LPLSDVAVK	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	1290100	1127900	972940	0	0	0	0	0	0
LPMPSPER	MRPL47	Q9HD33	RM47	HUMA	Oxidation (M)	649460	1018700	593680	0	0	0	0	0	0
LPMPYITINNLNPR	PSG6; PSG6; PSG11	Q00889; M0QZA7	PSG6	HUMA	Oxidation (M);Met	0	0	0	0	0	0	0	0	0
LPNFGFVVFDDSEPVQK	G3BP1; G3BP1; G3B	Q13283; A0A7Z\	G3BP1	HUM	Unmodified	803130	509930	904020	0	0	0	0	0	0
LPNFGFVVFDDSEPVQR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2	HUM	Unmodified	639710	270710	409620	0	0	0	0	0	0
LPNFGSHVLTPAEMEAFK	GAPVD1; GAPVD1;	Q14C86; C9IZ08;	GAPD1	HUM	Oxidation (M)	856760	759860	860390	0	0	0	0	0	0
LPNGLVIASLENYSPVSR	UQCRC2; UQCRC2;	P22695; H3BUJ9;	QCR2	HUMA	Deamidation (N)	1086200	938900	1079000	0	0	0	0	0	0
LPNNHIGISFIPR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Deamidation (N)	163980	216420	263710	0	0	0	0	0	0
LPNQTHPDVPVGDESQAR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Unmodified	730440	533560	694500	0	0	0	0	0	0
LPNQTHPDVPVGDESQAR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Deamidation (N)	696940	0	756160	0	0	0	0	0	0
LPPAAGDEPPDPNLFIEPITEER	CHD8; CHD8; CHD8	Q9HCK8; H0YJG	CHD8	HUM	Unmodified	1540900	712420	1031600	0	0	0	0	0	0
LPPAPGPLSTTVIPGAAPTLSVPTPDPESEKPD	WNK2; WNK2	F8W9F9; H0Y493	F8W9F9	HUM	Unmodified	613950	594230	0	0	0	0	0	0	0
LPPDVLR	PRKDC	P78527	PRKDC	HUM	Unmodified	5378800	5952400	5976800	55777	0	41140	0	0	0
LPPEEASPYVVDHGESGPLR	SEC24C; SEC24C	P53992; G5EA31	SC24C	HUM	Unmodified	4817000	1984100	4723500	138430	413810	320750	20987	0	0
LPPEPGLSDSYSFDYPSDMGPR	RAVER1; RAVER1	E9PAU2; A0A087	E9PAU2	HUM	Oxidation (M)	2979500	2827000	2195500	0	103800	37593	0	0	0
LPPEVNR	SF3B6	Q9Y3B4	SF3B6	HUM	Unmodified	1754100	1828700	1575400	0	45527	61609	0	0	0
LPPGEYVVVPSTFEPNKEGDFVLR	CAPN1	P07384	CAN1	HUMA	Unmodified	1767900	1104300	1006700	0	0	0	0	0	0
LPPGGIPGIDLSDPKQLAEFAR	YY1; ZFP42; YY1;	P25490; Q96MM3	TYY1	HUMA	Unmodified	1166700	2393900	0	0	0	0	0	0	0
LPPKSEVSSDEDIQFR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	1059500	2023600	1657600	80026	0	0	0	0	0
LPPKVESLESLYFTPIPAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	3243400	2434800	2816900	0	0	0	0	0	0
LPPLRALDDFVLGSAR	PRAF2; PRAF2	O60831; A6NP52	PRAF2	HUM	Unmodified	241360	98869	157080	0	0	0	0	0	0
LPPPADYNKEITEGDEVEVYSR	FXR2; FXR2	P51116; I3L1Z2	FXR2	HUM	Unmodified	5854700	2378500	2375900	0	0	0	0	0	0
LPPPMPPSER	CHERP; CHERP	Q8IWX8; J3QKB9	CHERP	HUM	Oxidation (M)	0	0	3036200	120420	35856	85090	0	0	0
LPPQDFLDRLSSLDNLK	CKAP4	Q07065	CKAP4	HUM	Unmodified	1897800	1723300	2162800	0	0	0	0	0	0
LPPQQIEK	CAPZB; CAPZB; CA	P47756; A0A6B	CAPZB	HUM	Unmodified	1051700	959400	1019400	0	0	111940	0	0	0
LPQNSGYIWVGK	SCIN	Q9Y6U3	ADSV	HUMA	Deamidation (N)	6166400	7731000	2476100	0	0	0	0	0	0
LPQNSGYIWVGK	SCIN	Q9Y6U3	ADSV	HUMA	Unmodified	906110	766740	1050700	0	0	0	0	0	0
LPQPAESSTHMLLPGPLHSLQR	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Oxidation (M)	1464900	1381900	2360100	0	0	0	0	0	0
LPQQSHSAFGATSSSSGFGK	DDX42; DDX42; DD	Q86XP3; J3QRI2;	DDX42	HUM	Unmodified	976690	695510	0	40406	0	0	0	0	0
LPQTPLDTGIPFPPVFSTSSAGVK	KDM3B	Q7LBC6	KDM3B	HUM	Unmodified	0	96518	120510	0	0	0	0	0	0
LPQTSDDEKKDF	SLIRP	Q9GZT3	SLIRP	HUM	Unmodified	27371000	26207000	20425000	129630	433200	574760	0	0	0
LPRPPPPEMPESLK	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	Oxidation (M)	834930	1795100	1113200	0	0	0	0	0	0
LPSDVVTAVR	OAT	P04181	OAT	HUMA	Unmodified	2818800	2833200	1578800	0	0	0	0	0	0
LPSEGPRPAHVVVGDVLQAADVDK	BLVRB; BLVRB; BL	P30043; M0QZL1	BLVRB	HUM	Unmodified	6706500	7486200	3907600	0	0	0	0	0	0
LPSLGAGFSQGLK	PELP1; PELP1; PELI	Q8IZL8; E7EV54;	PELP1	HUM	Unmodified	873810	1105500	749920	0	0	0	0	0	0
LPSNTLDR	PRKDC	P78527	PRKDC	HUM	Unmodified	1616100	0	1654200	0	167550	0	0	0	0
LPSNTLDRLLALNSLYSPK	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	141920	80328	254560	0	0	0	0	0	0
LPSRPGAQGVEPQNLR	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B	HUMA	Unmodified	0	716410	739360	49268	29732	22039	0	0	0
LPSSLLGPDPR	LEMD2; LEMD2	Q8NC56; H7C2Z6	LEMD2	HUM	Unmodified	0	0	2936300	107020	81529	64527	0	0	0
LPSSLLGPDPRPGLR	LEMD2; LEMD2	Q8NC56; H7C2Z6	LEMD2	HUM	Unmodified	2257400	2221100	2739700	128690	128990	111530	0	36831	72300
LPSSNLLK	STBD1	O95210	STBD1	HUM	Deamidation (N)	1502600	1190500	1578000	27198	51503	45627	0	0	0
LPSSPVYEDAASFK	CTTN; CTTN; CTTN	Q14247; H0YEV2	SRC8	HUM	Unmodified	1973800	1678700	2184300	0	0	0	0	0	0
LPSVPSTHLPAGPAPK	CHMP4A; CHMP4A	Q9BY43; H0YIN6	CHM4A	HUM	Unmodified	4179500	2493300	2673000	71017	78446	85439	0	0	0
LPTAADLLQIR	ATP9A	O75110	AT9A	HUM	Unmodified	729480	392080	1359200	0	0	0	0	0	0
LPTEEWEFAAR	SUMF2; SUMF2; SU	Q8NBJ7; C9J660;	SUMF2	HUM	Unmodified	940090	755270	680610	49341	0	69650	0	0	0
LPTFGAPEQLVDLK	TRIM25; TRIM25	Q14258; A0A3B3	TRI25	HUM	Unmodified	1811300	1122700	1472100	0	0	0	0	0	0
LPTGINPLTLHIMR	WDR44; WDR44	Q5JSH3; H7BY83	WDR44	HUM	Oxidation (M)	456190	208990	527600	0	0	0	0	0	0
LPTGQISGPEIK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	458590	250960	296160	296650	0	0	0
LPTIDPNTR	GTPBP4; GTPBP4	Q9BZE4; Q5T3R7	GTPB4	HUM	Unmodified	1538900	1490500	186720	0	0	0	0	0	0
LPTLPGISHETPLPESALTLR	TET1	Q8NFU7	TET1	HUM	Unmodified	622800	634150	538340	0	0	0	0	0	0
LPVALDPGAK	RPN1	P04843	RPN1	HUM	Unmodified	1036000	1061300	1049800	12118	0	0	0	0	0
LPVDLAEELGHR	CDKN2A; CDKN2A;	P42771; J3QRG6;	CDN2A	HUM	Unmodified	1165000	1736000	1415900	0	0	0	0	0	0
LPVDYYGIPFAAPTALASR	UBAP2	Q5T6F2	UBAP2	HUM	Unmodified	1564300	1478200	1505900	0	0	0	0	0	0
LPVLAGCLK	PRKDC	P78527	PRKDC	HUM	Unmodified	304470	350280	319520	0	0	0	0	0	0
LPVPAVKDTVNR	CPT1A	P50416	CPT1A	HUM	Unmodified	340520	357660	497170	0	0	0	0	0	0
LPVPESITGFAR	CISD2; CISD2; CISD	Q8N5K1; I3L1N9;	CISD2	HUM	Unmodified	1146900	2204400	1636900	20129	22597	0	0	0	0
LPVPPLQQSLDHYLK	CRAT; CRAT; CRAT	P43155; A0A7P0	CACP	HUM	Unmodified	1783600	0	1248600	0	0	0	0	0	0
LPVSEGVFVVK	MAN2B1; MAN2B1	O00754; M0R174	MA2B1	HUM	Unmodified	506220	516350	352060	0	0	0	0	0	0
LPVSEGVFVVKDPNGR	MAN2B1; MAN2B1	O00754; M0R174	MA2B1	HUM	Deamidation (N)	2587900	1509200	2032200	0	0	0	0	0	0
LPVSKDEPDTLTLR	SRCAP; SRCAP; N/A	Q6ZRS2; A0A0A(	SRCAP	HUM	Unmodified	463900	549780	454900	16913	16280	19826	0	0	0
LPVTFEDK	ITSN2; ITSN1; ITSN1	Q9NZM3; Q15811	ITSN2	HUMA	Unmodified	3127900	2706700	3324600	0	0	0	0	0	0
LPYDVTPEQALAHEEVK	IQGAP1; IQGAP1; IQ	P46940; A0A0J9	IQGA1	HUM	Unmodified	1575200	2034800	1899900	0	0	0	0	0	0
LPYDVTR	PHF2; PHF8; PHF8; I	O75151; Q9UPP1	PHF2	HUMA	Unmodified	0	1815600	1838000	51416	38737	67436	0	0	0
LPYELQK	HSPA4L; HSPA4L; H	O95757; E9PDE8;	HS74L	HUM	Unmodified	464670	839700	0	0	0	0	0	0	0
LPYKVLSVPESTPFTAVLK	UFM1; UFM1	P61960; H0Y614	UFM1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LQAAGNAVK	TLN2; TLN1; TLN2	Q9Y4G6; Q9Y490	TLN2	HUMA	Deamidation (N)	405840	1292100	530420	0	55027	46108	0	0	0
LQAALAER	TBCC	Q15814	TBCC	HUMA	Unmodified	1435500	1436800	1345500	0	0	0	0	0	0
LQAALDDEEAGGR	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Unmodified	2935400	3765500	0	80298	0	0	0	0	0
LQAALDDEEAGGRPAMEPGNGSLDLGGDSAGR	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Oxidation (M);Dea	114180000	116190000	133740000	811890	625400	654410	0	29815	0
LQAANAEDIK	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	0	0	1097500	0	0	0	0	0	0
LQAANAEDIKSGK	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	680250	631270	1097400	0	0	77144	0	0	6534.4
LQAASPELTQAAIMEK	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Oxidation (M)	2940700	4310200	4033200	0	0	0	0	0	0
LQAASPELTQAAIMEKLVAYSSDQAHSSVER	DDC; DDC; DDC	P20711; A0A087	DDC	HUMA	Oxidation (M)	0	0	1099000	0	0	0	0	0	0
LQAAVDGPMDK	BCAP31; BCAP31	P51572; A0A2R8	BAP31	HUM	Oxidation (M)	822540	557970	745940	62199	87607	89145	0	0	0
LQAAVDGPMDKKEE	BCAP31; BCAP31	P51572; A0A2R8	BAP31	HUM	Oxidation (M)	5955100	3685700	5857300	567060	492550	622960	0	0	0
LQAAYAGDK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	0	0	1616700	198150	108310	190730	0	0	0
LQAAYAGDKADDIQK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	0	320570	295680	0	0	0	0	0	0
LQAAYAGDKADDIQKR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1059800	846310	1330300	0	65482	95238	0	0	0
LQAEAPHIVVGTPGR	EIF4A2; EIF4A2	Q14240; E7EQG2	IF4A2	HUM	Unmodified	15051000	13164000	15200000	278280	210020	328440	0	0	0
LQAEAQELLGYQVDPR	GADD45GIP1	Q8TAE8	G45IP	HUM	Unmodified	2307600	1549000	2227300	0	0	0	0	0	0
LQAEAQQLR	CDC37; CDC37; CDC	Q16543; K7EQA9	CDC37	HUM	Unmodified	2019300	1283100	1284600	335660	87863	432880	0	0	0
LQAEEVAQQK	PLEC	Q15149	PLEC	HUMA	Unmodified	1211100	1069300	1202800	286360	368610	437480	0	0	0
LQAEISQAAR	PRPF3	O43395	PRPF3	HUM	Unmodified	787640	545040	706740	0	0	0	0	0	0
LQAENTALQK	GRIPAP1; GRIPAP1	Q4V328; A0A087	GRAP1	HUM	Unmodified	976150	1159400	1415500	158220	50197	131280	0	0	0
LQAENTALQKNVAALQERYGKEAGK	GRIPAP1; GRIPAP1	Q4V328; A0A087	GRAP1	HUM	2 Methyl (KR)	10379000	9435100	10927000	0	0	0	0	0	0
LQAEWHDSDWILSVPAK	DDX50	Q9BQ39	DDX50	HUM	Unmodified	278470	253760	276510	0	0	0	0	0	0
LQAFGFCEYKEPESTLR	RBM25; RBM25	P49756; E9PQU5	RBM25	HUM	Unmodified	693610	425900	447260	0	0	0	0	0	0
LQALAEEPSQPHTR	ARHGEF16	Q5VV41	ARHGG	HUM	Unmodified	1573300	0	1593200	0	0	332790	0	0	0
LQALANEQAAAAHELEK	KTN1	Q86UP2	KTN1	HUMA	Unmodified	1948800	1544800	1150800	0	102790	0	0	0	0
LQALLEAR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	605590	618490	635780	21937	20588	19425	0	0	0
LQALVVMAAQPR	SEMA4C	Q9C0C4	SEM4C	HUM	Oxidation (M)	0	608190	869060	0	0	0	0	0	0
LQALYEK	L2HGDH; L2HGDH;	Q9H9P8; G3V5S1	L2HDH	HUM	Unmodified	946670	0	311800	0	0	0	0	0	0
LQAPDSATLLEK	PHF23; PHF23; PHF2	Q9BUL5; I3L0Y2;	PHF23	HUM	Unmodified	919000	828890	797170	29994	0	0	0	0	0
LQAQLNELQAQLSQK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	2843900	2562100	2619800	0	0	0	0	0	0
LQAQLNELQAQLSQKEQAAEHYK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1761400	1828300	2094500	0	0	0	0	0	0
LQAQLNELQAQLSQKEQAAEHYKLQMEK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	761460	965410	800880	0	0	0	0	0	0
LQAQMKDCMRELDDTRASR	MYH9	P35579	MYH9	HUM	2 Oxidation (M)	0	211070	0	30481	47396	60598	0	32438	31340
LQAQSLSTVGPR	SART1	O43290	SNUT1	HUM	Unmodified	2949200	2912900	2240900	61968	141370	90785	0	0	0
LQASNVTNKNDPK	RALY; RALY; RALY	Q9UKM9; Q5QPA	RALY	HUMA	Deamidation (N)	936520	0	0	0	0	0	0	0	0
LQASNVTNKNDPK	RALY; RALY; RALY	Q9UKM9; Q5QPA	RALY	HUMA	3 Deamidation (N)	0	100660	0	0	0	0	0	0	0
LQATEVR	TRMT112; TRMT11;	Q9UI30; F5GX77	TR112	HUM	Unmodified	0	0	12396000	0	0	0	0	0	0
LQATSISQR	TIAM1; TIAM1	Q13009; A0A1B0	TIAM1	HUM	Unmodified	0	4955700	0	0	0	0	0	0	0
LQATVQELQK	CORO1A; CORO1A	P31146; H3BRY3	COR1A	HUM	Unmodified	2309100	2217100	2050900	43838	0	0	0	0	0
LQAVEVVITHLAPGTK	CARHSP1	Q9Y2V2	CHSP1	HUM	Unmodified	6230800	6459000	4686700	0	0	0	0	0	0
LQAVTDDHIR	BLVRB; BLVRB	P30043; A0A2R8	BLVRB	HUM	Unmodified	1292600	1333400	1481800	46053	55616	39877	0	0	0
LQAWLTR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUM	Unmodified	704990	208910	208510	0	0	0	20284	27515	0
LQAYHTQTTPLIEYYR	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2	HUM	Unmodified	31144000	28058000	23320000	259960	274060	240580	0	52204	48320
LQAYHTQTTPLIEYYRK	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2	HUM	Unmodified	2047000	1733600	2276300	0	0	0	0	0	0
LQAYTSVSK	NCKAP1	Q9Y2A7	NCKP1	HUM	Unmodified	0	266700	289670	20573	0	0	0	0	0
LQDAAVRPGFLSTAEEETLSR	ALKBH7	Q9BT30	ALKB7	HUM	Unmodified	2618400	883850	830720	0	0	0	0	0	0
LQDAEIAR	S100A6; S100A6	P06703; R4GN98	S10A6	HUM	Unmodified	10359000	10998000	14638000	297490	333640	301610	29817	27031	20271
LQDEANYHLYGSR	RIPK1	Q13546	RIPK1	HUM	Unmodified	866630	0	620510	0	0	0	0	0	0
LQDEFENR	EIF4G2; EIF4G2; EIF	P78344; H0YD77;	IF4G2	HUM	Unmodified	592060	630780	598500	0	0	0	0	0	0
LQDEIQNMKEEMAR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	2 Oxidation (M)	20116000	14480000	14890000	4301200	4846800	6045700	0	69538	12146
LQDEIQNMKEEMAR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	2 Oxidation (M);De	8561200	5719700	6421000	2375900	2693000	2701400	0	0	0
LQDFKLDFGNSQGK	GGCT; GGCT	O75223; B8ZZK2	GGCT	HUM	Deamidation (N)	668030	521810	412610	0	0	0	0	0	0

LQDKATVLTTER	PRPF19; PRPF19; PR	Q9UMS4; F5H2I0	PRP19	HUM/	Unmodified	3078300	3704700	2577100	32811	49392	80572	0	0	0
LQDLEERDAFAER	DHX16; DHX16; DH	O60231; A0A140T	DHX16	HUM	Unmodified	3383000	1673200	1399300	0	0	0	0	0	0
LQDLTLR	HYOU1; TEX15; TE	Q9Y4L1; Q9BXT	HYOU1	HUM	Unmodified	1576400	1049300	1659000	0	0	0	0	0	0
LQDLTLRDLEK	HYOU1; HYOU1; HY	Q9Y4L1; A0A494	HYOU1	HUM	Unmodified	1348500	2713000	2785200	9375.4	16956	12182	0	0	0
LQDLTLRDLEKQER	HYOU1; HYOU1; HY	Q9Y4L1; A0A494	HYOU1	HUM	Unmodified	1543600	1989000	1933600	0	0	0	0	0	0
LQDLTLRDLEKQEREK	HYOU1; HYOU1; HY	Q9Y4L1; A0A494	HYOU1	HUM	Unmodified	3551000	4462000	6178600	0	0	0	0	0	0
LQDPFSLYR	SDHB	P21912	SDHB	HUMA	Unmodified	4431100	4805200	5141800	262700	213800	254820	0	68603	29377
LQDTATATTEDPELLAFLSR	FUT11	Q495W5	FUT11	HUM	Unmodified	1242000	0	493740	0	0	0	0	0	0
LQDTSSYAK	DSP	P15924	DESP	HUMA	Unmodified	7796700	7240300	8588100	265120	412250	322520	12244	0	0
LQDTYNLDTDTISK	P4HA1	P13674	P4HA1	HUM	Unmodified	0	0	942830	0	0	69453	0	0	0
LQDTYNLDTDTISKGNLPGVK	P4HA1	P13674	P4HA1	HUM	Unmodified	2319400	2461200	1849900	0	0	0	0	0	0
LQDYEEK	EZR; EZR	P15311; E7EQR4	EZRI	HUMA	Unmodified	1703400	0	1280300	521670	523310	469050	0	0	0
LQEADQLLSTR	GOLGA5	Q8TBA6	GOGA5	HUM	Unmodified	767880	645570	598140	0	0	31011	0	0	0
LQEAGILSAEELQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	7946800	5668400	6231800	441550	413530	345980	0	0	0
LQEALER	CALD1; DDC; CALD	Q05682; P20711;	CALD1	HUM	Unmodified	0	3932700	5536600	524620	390850	433520	63299	60021	0
LQEAQLYKEEGNQR	TTC9C; TTC9C; TTC	Q8N5M4; E9PKV	TTC9C	HUM	Unmodified	1150800	837380	869640	0	58857	47444	0	19314	0
LQEDPNYSPQRFPNAQR	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6	HUMA	Unmodified	825830	758840	712920	44362	42138	82487	0	23220	0
LQEDPNYSPQRFPNAQR	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6	HUMA	Deamidation (N)	790160	571490	653890	0	0	0	0	0	0
LQEDYSMYSKPEDFVADFR	TRIM24	O15164	TIF1A	HUMA	Oxidation (M)	0	1329800	0	0	0	0	0	0	0
LQEEER	RPS17; ZBED3; CNT	P08708; Q96JU2;	RS17	HUMA	Unmodified	4028900	1481100	4154200	62047	0	0	0	0	0
LQEEERER	RPS17; RPS17; N/A;	P08708; H0YN88;	RS17	HUMA	Unmodified	1916700	2439000	2041400	136120	155910	0	0	0	0
LQEEIQLK	DES	P17661	DESM	HUM/	Unmodified	0	0	0	0	0	3678700	0	0	0
LQEEITK	USP14; RUFY1; USP	P54578; H0YA47;	UBP14	HUM	Unmodified	4248400	3433200	4265900	0	0	0	0	0	0
LQEEITKQSPTLQR	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	1499200	1474700	1852500	0	0	0	0	0	0
LQEELAASDR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	Unmodified	2184700	1677100	1848800	0	0	42652	0	0	0
LQEELDKYSQALRKNEILR	TRIP11; TRIP11	Q15643; H0YJ97	TRIPB	HUM/	3 Methyl (KR)	294100	299330	301780	0	0	0	0	0	0
LQEELEK	RRBP1; SEC23IP; DS	Q9P2E9; Q9Y6Y8	RRBP1	HUM	Unmodified	829210	0	0	0	0	38537	0	0	0
LQEEMLQR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Oxidation (M)	1517700	2126700	1711600	242660	213120	259880	0	0	0
LQEEMLQREEAENTLQSFRQDVDNASLAR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Oxidation (M)	1528300	1350200	1320000	0	0	0	0	0	0
LQEENLVITPR	VIL1; VIL1; VIL1	P09327; H7C0B6;	VILI	HUMAN	Unmodified	1152300	834630	894240	31769	23440	0	0	0	0
LQEESDLELAK	EIF3J; EIF3J	O75822; H0YGJ7	EIF3J	HUMA	Unmodified	0	728120	646550	0	0	0	0	0	0
LQEETGAK	KHDRBS2; KHDRBS	Q5VWX1; Q0766	KHDR2	HUM	Unmodified	12570000	11414000	9838300	586230	0	576560	0	0	0
LQEETGAKISVLGK	KHDRBS1	Q07666	KHDR1	HUM	Unmodified	2967300	2516900	2495700	52926	0	0	0	0	0
LQEETGAKISVLGK	KHDRBS1	Q07666	KHDR1	HUM	Methyl (KR)	905910	972410	1091400	0	0	0	0	0	0
LQEGQTLEFLVASVPK	LAMB2	P55268	LAMB2	HUM	Unmodified	637880	438690	442830	0	0	0	0	0	0
LQEIYNR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2	HUM	Unmodified	1366700	2633200	1062600	0	0	0	0	0	0
LQEKEDLQELNDRLAVYIDR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	1358000	181170	1313200	0	0	0	0	0	0
LQEKEELR	LMNB1; LMNB2; LN	P20700; Q03252;	LMNB1	HUM	Unmodified	3051200	0	0	0	0	0	0	0	0
LQEKEELRELNDR	LMNB1; LMNB2; LN	P20700; Q03252;	LMNB1	HUM	Unmodified	4928100	15116000	11858000	41312	150610	170330	0	0	0
LQEKEELRELNDR	LMNB1; LMNB2; LN	P20700; Q03252;	LMNB1	HUN	Deamidation (N)	982710	0	0	0	0	0	0	0	0
LQEKLSPPYSSPQEFAQDVGR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Unmodified	6562700	5309000	11668000	0	0	0	0	0	0
LQELDAASK	CLTB	P09497	CLCB	HUM	Unmodified	2522300	2799400	2549100	122570	129900	137680	0	0	0
LQELDAASKVTEQEWR	CLTB	P09497	CLCB	HUM	Unmodified	1128400	806300	1367700	0	25806	0	0	0	0
LQELDAASKVTEQEWREK	CLTB	P09497	CLCB	HUM	Unmodified	890170	1099900	761260	0	0	0	0	0	0
LQELEDQYRR	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A	HUM/	Unmodified	1369500	0	0	0	27299	0	0	0	0
LQELPDAVPHGEMPR	MCM5; MCM5; MC	P33992; B1AHB1	MCM5	HUM	Oxidation (M)	7055900	9813700	8951700	0	16579	0	0	0	0
LQELSAAYR	PCIF1	Q9H4Z3	CAPAM	HUM	Unmodified	2369800	1789600	1062000	0	0	62188	0	0	0
LQELSAEER	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1	HUMA	Unmodified	4963400	4150800	6323400	0	0	0	0	0	0
LQEMEGTVK	MYH9	P35579	MYH9	HUM/	Oxidation (M)	3152300	3303700	3174000	230280	238340	0	0	0	0
LQEQLEK	RRBP1; PNN; PNN; I	Q9P2E9; Q9H307	RRBP1	HUM	Unmodified	708270	1340900	0	0	0	0	0	0	0
LQEQVTDLR	TPR	P12270	TPR	HUMAN	Unmodified	1680300	1865300	2327700	180430	108370	88046	0	0	0
LQESLSR	NVL	O15381	NVL	HUMA	Unmodified	1118500	1633600	1423900	70424	51147	70465	0	0	0
LQESPEDMPAGQTPHTVILFAHNDLVDKVQPGDR	MCM4; MCM4; MC	P33991; A0A3B3I	MCM4	HUM	Oxidation (M);Deai	0	1495000	0	0	0	0	0	0	0
LQESVMEASR	RAD21	O60216	RAD21	HUM	Oxidation (M)	2256200	2055600	1747500	138860	0	0	0	0	0
LQETEMMDPELDYTLMR	GLG1	Q92896	GSLG1	HUM	3 Oxidation (M)	697160	683500	669730	71541	56864	48831	0	0	0
LQETLSAADR	PRKDC	P78527	PRKDC	HUM	Unmodified	7717700	6070300	6963500	0	109130	0	0	0	0
LQEVEVPEDFGPVR	EML2; EML2; EML2	O95834; A0A0C4	EML2	HUM	Unmodified	598790	668570	757600	0	0	0	0	0	0
LQEVIETLLSLEK	PSMD12	O00232	PSD12	HUM	Unmodified	149560	0	0	0	0	0	0	0	0
LQEVIETLLSLEKQTR	PSMD12	O00232	PSD12	HUM	Unmodified	0	0	750920	0	0	0	0	0	0
LQEVSLR	TBCE; CHTF18; TBC	Q15813; Q8WVB	TBCE	HUM	Unmodified	0	706670	940970	0	0	22224	0	0	0
LQFLER	SRPRB; SRPRB	Q9Y5M8; H7C4H	SRPRB	HUM	Unmodified	246930	388240	320570	0	0	15630	0	0	0
LQFQQQNSIHAAK	ZC3H14; ZC3H14; ZI	Q6PJT7; G3V3Y4	ZC3HE	HUM	Deamidation (N)	652710	665720	0	0	28996	51921	0	0	0
LQGEFQLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	0	2388800	3366700	0	0	0	0	0	0
LQGEGAEVQLTGK	SDSL; SDSL	Q96GA7; F8VYZ	SDSL	HUM	Unmodified	0	930150	1072000	0	0	0	0	0	0
LQGEVEKYQQLQK	PFDN6; PFDN6	O15212; A2AB88	PFD6	HUM	Unmodified	0	2531600	2705000	0	0	44993	0	0	0
LQGEVQR	VAPB	O95292	VAPB	HUM	Unmodified	11753000	9580200	478620	427140	596580	579890	0	0	0
LQGEVVAFDYQSK	LSM12; LSM12	Q3MHD2; K7ELC	LSM12	HUM	Unmodified	0	3836800	3463900	54187	105900	120340	0	0	0
LQGLPIVAGTMDIR	RBM12; RBM12; RB	Q9NTZ6; Q5JX62	RBM12	HUM	Oxidation (M)	787670	838910	569560	0	0	0	0	0	0
LQGQITEGSNMIK	KAT7; KAT7; KAT7	O95251; E7EUP3	KAT7	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
LQGQKEPGDQGPAHPPGADMSHSL	MRPS2	Q9Y399	RT02	HUM	Oxidation (M)	2323100	2021800	1646900	88665	145150	0	0	0	0
LQGQLEQGDDTAAER	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1	HUM	Unmodified	421350	394390	402020	0	0	0	0	0	0
LQGQLEQGDDTAAERLEK	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1	HUM	Unmodified	913680	0	453210	0	0	0	0	0	0
LQHLENELTHDIITK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT	HUMA	Unmodified	1988300	2277000	2946600	0	0	0	0	0	0
LQHVEDGVLSMQVASAR	CKAP4	Q07065	CKAP4	HUM	Oxidation (M)	5868100	5857100	5758700	947790	1154100	1024800	54213	26124	36779
LQIAQLYPISIFIKPK	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1	HUM	Unmodified	1338800	367660	1133200	0	0	0	0	0	0
LQIDEQLR	FXR2; FXR1; FMR1;	P51116; P51114;	FXR2	HUM	Unmodified	12215000	10321000	12098000	267960	218250	225600	0	0	0
LQIDVDGRK	NSUN2	Q08J23	NSUN2	HUM	Unmodified	0	469030	1179700	0	0	0	0	0	0
LQIEDFEAR	NDUFA13; NDUFA1	Q9P0J0; K7EJE1;	NDUAD	HUM	Unmodified	2620700	3017000	0	61578	57080	51203	0	0	0
LQIEESSKPVR	GTF2F2	P13984	T2FB	HUM	Unmodified	690690	493950	508720	0	0	0	0	0	0
LQIFSVEGQK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Unmodified	1834000	1563100	3628700	44656	47635	52727	0	0	0
LQIKQMMEAATR	PRPF3	O43395	PRPF3	HUM/	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
LQILSLRDNDLISLPK	RSU1	Q15404	RSU1	HUMA	Deamidation (N)	410950	66775	485120	0	0	0	0	0	0
LQIWDTAGQESFR	RAB2A; RAB2B; RA	P61019; Q8WUD	RAB2A	HUM	Unmodified	1477700	957780	358910	0	0	0	0	0	0
LQKEQEKLQR	EIF4B; EIF4B; EIF4B	P23588; E7EX17;	IF4B	HUMA	Unmodified	1628900	1411200	1149100	99236	97466	75189	0	0	0
LQKLPTSM	CMC1; CMC1	Q7Z7K0; C9JES7	COXM1	HUM	Oxidation (M)	1287500	1746300	1634600	159940	112960	142850	0	0	0
LQLEACETR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	0	0	0	163890	166940	94286	0	0	0
LQLEATER	PLEC	Q15149	PLEC	HUM	Unmodified	6044400	1900100	2224500	624180	651880	499800	0	0	0
LQLEETDHQK	PLEC	Q15149	PLEC	HUM	Unmodified	329890	343320	347930	38883	65564	37023	0	0	0
LQLEETDHQKNLLDEELQR	PLEC	Q15149	PLEC	HUM	Unmodified	1223500	2102300	1593300	0	0	0	0	0	0
LQLEETMPSPYGR	TOP2B	O02880	TOP2B	HUM	Oxidation (M)	1953200	0	1215900	0	21962	28170	0	0	0
LQLEIDQK	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC	HUM	Unmodified	0	2397600	1904700	0	0	0	0	0	0
LQLEKVTTEAK	MYH14; MYH9	Q7Z406; P35579	MYH14	HUM	Unmodified	313380	261250	166000	50904	58328	44878	0	10860	0
LQLEKVTTEAK	MYH14; MYH9	Q7Z406; P35579	MYH14	HUM	Methyl (KR)	281240	556820	485470	22873	0	28749	0	0	0
LQLELSK	VARS2; LMNA; LM	Q5ST30; P02545;	SYVM	HUM	Unmodified	0	0	3692000	165540	159570	157880	0	0	0
LQLETEIEALK	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	0	0	0	129080	118330	136650	173900	0	0
LQLETEIEALKEELLFMKK	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Oxidation (M)	472410	0	0	0	0	0	0	0	0
LQLGTPPPLLAAR	RBM27	Q9P2N5	RBM27	HUM	Unmodified	1503000	1680000	1376800	45942	45614	35288	0	0	0
LQLLEDDKENR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	3260300	2854900	3136700	0	17259	0	0	0	0
LQLLEDDKENRYWIFR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	1336800	0	0	0	0	0	0	0	0
LQLLEEENKER	MFF; MFF; MFF; MF	Q9GZY8; H7C433	MFF	HUMA	Unmodified	711100	509900	589850	0	0	0	0	0	0
LQLLTGEHRPEDEEELEKELYR	MTX1	Q13505	MTX1	HUM	Unmodified	5594000	0	952810	0	0	0	0	0	0
LQLNYLGNYIPR	PLOD1; PLOD1	Q02809; Q5JXB7	PLOD1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LQLPVWEYKDR	DHX15	O43143	DHX15	HUM	Unmodified	983200	0	1249400	0	0	0	0	0	0
LQLQQMR	KIAA1217; KIAA121	Q5T5P2; Q5T5P1	SKT	HUMA	Oxidation (M)	782590	623550	652920	0	0	0	0	0	0
LQLWDTAGQER	RAB6A; RAB39A; R	P20340; Q14964;	RAB6A	HUM	Unmodified	3876300	4222900	4067800	77587	0	37430	0	0	0
LQMEAPHIIVGTPGR	EIF4A1; EIF4A1; EIF	P60842; J3KTB5;	IF4A1	HUMA	Oxidation (M)	5502400	3858100	4515100	0	0	0	32895	0	0
LQMEQQQQLQQR	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M)	735910	1738200	479380	0	0	0	0	0	0
LQNALNEQR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	1249000	1223600	1125300	69275	0	0	0	0	0
LQNEDKIISNVPADSLIR	BAZ1B	Q9UIG0	BAZ1B	HUM	Deamidation (N)	430570	386190	375040	0	0	0	0	0	0
LQNEDKIISNVPADSLIR	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	985850	943930	784080	0	0	0	0	0	0
LQNELDMVK	LIG3	P49916	DNLI3	HUM/	Oxidation (M)	541390	494680	737040	0	75591	0	0	0	0
LQNLDALTNLTVLSMQSNR	PPP1R7; PPP1R7; PP	Q15435; C9JD73;	PP1R7	HUM/	Oxidation (M)	960870	956520	825250	0	0	0	0	0	0
LQNLQLQPGNAKL	SCP2	P22307	SCP2	HUMA	Deamidation (N)	606460	477820	708380	0	0	0	0	0	0
LQNLWR	SUPT5H; SUPT5H	O00267; M0QYL5	SPT5H	HUM	Unmodified	397700	0	274210	0	0	0	0	0	0
LQPALPPEAQSVPELEEVAR	PPP1R13L	Q8WUF5	IASPP	HUM	Unmodified	1569600	1874400	800560	0	0	0	0	0	0
LQPAPVIPSAPAAPK	ADAM17	P78536	ADA17	HUM	Unmodified	2894400	2119600	1752800	74355	52622	80151	0	0	0
LQPEEADVPAYPK	DIDO1	Q9BTC0	DIDO1	HUM	Unmodified	817180	465330	0	129640	95110	97962	0	0	0
LQPFATEADVEEALR	MCM5; MCM5	P33992; B1AHB1	MCM5	HUM	Unmodified	315450	0	1855800	0	0	0	0	0	0
LQPFLQR	BAG6; BAG6; BAG6	P46379; F6S6P2;	BAG6	HUMA	Unmodified	1740100	497190	1928500	0	0	0	0	0	0
LQPHPQLSPEIR	BYSL	Q13895	BYST	HUMA	Unmodified	760240	905010	417920	0	0	0	0	0	0
LQPLSPVPSDIEISR	MTHFD1L; MTHFD1	Q6UB35; H0Y327	C1TM	HUM	Unmodified	844590	1176000	815660	0	0	0	0	0	0
LQPQEAPETETR	TONSL	Q96HA7	TONSL	HUM	Unmodified	788310	651750	746390	0	0	0	0	0	0
LQPVLQPLPSPGVGGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2253300	2881400	2648600	523280	559760	537760	0	79754	80914
LQPVLQPLPSPGVGGKR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2975000	2578400	2722300	417190	512560	472400	130880	118980	141420
LQPVTEVK	RALGAPA1; RALGA	Q6GYQ0; A0A7P	RGPA1	HUM	Unmodified	814830	0	0	0	0	0	0	0	0
LQQAAQQHIQQQLLAK	GPATCH8	Q9UKJ3	GPTC8	HUM	Unmodified	537180	589600	592910	0	0	0	0	0	0
LQQAGNVLR	C19orf25; C19orf25	Q9UFG5; E7EP72	CS025	HUM/	Unmodified	427170	467780	820650	0	0	41674	0	0	0
LQQAQLMR	CREBBP	Q92793	CBP	HUMA	Oxidation (M)	415070	498030	0	0	0	0	0	0	0
LQQAQLYPIAIFIKPK	DLG3; DLG3	Q92796; Q5JUW8	DLG3	HUMA	Unmodified	1061800	742410	1032900	0	0	0	0	0	0
LQQAVLSR	ABRAXAS2	Q15018	ABRX2	HUM	Unmodified	1168800	970030	1349600	117340	101760	130050	0	0	7237.2
LQQELDDATMDLEQQR	MYH14; MYH14; MY	Q7Z406; A1L2Z2	MYH14	HUM	Oxidation (M)	743540	1078700	0	0	0	0	0	0	0
LQQELDDLLVDLDHQR	MYH9	P35579	MYH9	HUM/	Unmodified	21727000	7998200	14738000	0	0	0	0	0	0

LQQELDDLTVDLDHQR	MYH10	P35580	MYH10_HUM	Unmodified	2636800	2857800	1659500	0	0	0	0	0	0
LQQENSILR	NIN; RRBP1; NIN; N	Q8N4C6; Q9P2E9	NIN_HUMAN	Deamidation (N)	2895900	1138700	3357700	0	0	0	0	0	0
LQQENSILR	NIN; RRBP1; NIN; N	Q8N4C6; Q9P2E9	NIN_HUMAN	Unmodified	1431700	1228800	1117200	159150	106580	118050	0	0	0
LQQEPDGAGAKSPTCQK	DGKZ; DGKZ	Q13574; E9PNL8	DGKZ_HUM	Unmodified	2265100	1617700	1903000	51238	0	27224	12812	0	0
LQQEQDLR	PHIP	Q8WWQ0	PHIP_HUMA	Unmodified	632490	1504800	1293900	63256	0	0	0	0	0
LQQFLR	PIGO; SPTBN1; BNC	Q8TEQ8; Q01082	PIGO_HUMA	Unmodified	927410	1392700	661010	0	0	0	0	0	0
LQQGAGLESPQGQPEPGAASPQR	CCDC86	Q9H6F5	CCD86_HUM	Unmodified	1908400	1791400	1767100	60465	0	83521	0	0	0
LQQGYNAMGFSQGGQFLR	PPT1; PPT1; PPT1; P	P50897; A0A286Y	PPT1_HUMA	Oxidation (M)	3114500	1860100	1807300	30192	0	34955	0	0	0
LQQGYNAMGFSQGGQFLR	PPT1; PPT1; PPT1; P	P50897; A0A286Y	PPT1_HUMA	Oxidation (M);Deam	3858000	1968800	3565300	37120	21838	0	0	0	0
LQQHIQELEAHLEAEEGAR	MYH14; MYH14	Q7Z406; M0QY43	MYH14_HUM	Unmodified	1607500	4468600	3212200	0	0	0	0	0	0
LQQLALGR	RBM15; RBM15; RB	Q96T37; A0A4944	RBM15_HUM	Unmodified	2397300	2460600	2047800	38926	52531	59495	0	0	0
LQQLEALR	ALDH3A2; ALDH3A	P51648; A0A5F92	AL3A2_HUM	Unmodified	810880	0	0	0	0	0	0	0	0
LQQLFR	SPTAN1; HTT; HTT;	Q13813; P42858;	SPTN1_HUM	Unmodified	3640500	4350700	5124400	162640	167710	180170	0	0	0
LQQLFRDVEDEETWIREKEPIAASTNR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	301010	0	0	0	0	0	0	0	0
LQQLGEAHQAETEVLR	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1_HUM	Unmodified	5526700	6288400	7699400	174920	226770	199200	0	0	0
LQQLGEAHQAETEVLRR	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1_HUM	Unmodified	32053000	27260000	27789000	771770	485760	532640	43770	0	27079
LQQLKDETGELSSADEKR	UPF1	Q92900	RENT1_HUM	Unmodified	1000100	768990	878310	0	58592	148580	0	0	0
LQQLPADFGR	LRRC59	Q96AG4	LRC59_HUM	Unmodified	0	2121200	2002700	0	0	0	0	0	0
LQQQAALSPTTAPAVSSVSK	GATAD2B; GATAD2	Q8WXI9; A0A0U1	P66B_HUMA	Unmodified	0	1019700	2161900	0	87736	0	0	0	0
LQQQELR	KIF2A; KIF2A; KIF2/	O00139; A0A669	KIF2A_HUM	Unmodified	1737300	1960500	2197100	93827	0	142300	0	0	0
LQQQLEER	TRIP10; TRIP10; TRI	Q15642; W4VSQ9	CIP4_HUMA	Unmodified	566360	4163900	4753800	99327	89970	0	0	0	0
LQQQQAQQPLQQQQQR	INTS7; INTS7	Q9NVH2; A0A087	INT7_HUMA	Unmodified	1269400	1352200	0	0	0	0	0	0	0
LQQSHPLSATQIQVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	1332700	2965500	2474500	0	0	0	0	0	0
LQQTEAELR	VARS1; VARS1	P26640; A0A140T	SYVC_HUMA	Unmodified	0	1002100	0	0	0	159930	0	0	0
LQQTQAQVDEVVDIMR	VAMP2; N/A; VAMP	P63027; L7N2F9;	VAMP2_HUM	Oxidation (M)	1672200	2206700	2310300	75640	29022	0	0	0	0
LQQTQNQVDEVVDIMR	VAMP3	Q15836	VAMP3_HUM	Oxidation (M);Deam	2923700	3847500	4144200	224170	206650	296720	0	0	0
LQQTQNQVDEVVDIMR	VAMP3	Q15836	VAMP3_HUM	Oxidation (M)	1719900	1973800	2065400	52620	76155	104070	0	0	0
LQQTQSLHSLR	DFFA	O00273	DFFA_HUMA	Unmodified	2026300	1688300	1505600	0	75764	97172	0	0	0
LQQTYAALNSK	IQGAP1; IQGAP1	P46940; H0YLE8	IQGA1_HUM	Unmodified	758180	653450	702610	0	0	0	0	0	0
LQQVLQMESHIQSTSDR	KPNB1; KPNB1; KPI	Q14974; J3QKQ5;	IMB1_HUMA	Oxidation (M)	5119400	4794500	6282100	0	0	0	0	0	0
LQQWYR	GPI; GPI; GPI; GPI; C	P06744; K7EIL4;	G6PI_HUMA	Unmodified	6447900	6533300	6954200	0	0	0	0	0	0
LQREAEYFELPELVR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	0	921880	1315400	0	0	0	12464	0	0
LQRLEDELNR	DSP	P15924	DESP_HUMA	Unmodified	6504100	6555600	5727300	87146	111780	121490	0	43726	0
LQRLEDELNRAK	DSP	P15924	DESP_HUMA	Unmodified	1149400	1898000	1463700	0	58793	39072	0	0	0
LQSAMTEGGVVLR	MRPL18	Q9H0U6	RM18_HUMA	Oxidation (M)	0	1003300	846060	43298	0	0	0	0	0
LQSAMTEGGVVLREPQR	MRPL18	Q9H0U6	RM18_HUMA	Oxidation (M)	0	3370300	977490	0	0	0	0	0	0
LQSDDILPLGK	DHX30; DHX30	Q7L2E3; H7BXY2	DHX30_HUM	Unmodified	1121200	0	852660	55591	50096	54285	0	0	0
LQSEPESIR	CLTA; CLTA	P09496; F8WF69	CLCA_HUMA	Unmodified	7303000	6073600	6659100	156060	217570	151560	0	0	0
LQSEPESIRK	CLTA; CLTA	P09496; F8WF69	CLCA_HUMA	Unmodified	1617000	1714000	2337200	0	0	103900	0	0	0
LQSLGVPGAAASR	MDP1; NEDD8-MDP	Q86V88; E9PL57	MGDP1_HUM	Unmodified	3258100	2009200	2142400	43205	0	26726	0	0	0
LQSLPFALTHLNLK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	943150	1333700	818310	0	0	0	0	0	0
LQSLTENLTK	DSP	P15924	DESP_HUMA	Unmodified	2597400	3128800	2539600	0	0	0	0	0	0
LQSQMSGQQLVEQSHVVLSTLWEPHITQR	COASY	Q13057	COASY_HUM	Oxidation (M)	0	1441400	1836000	0	0	0	0	0	0
LQSQVLQAMR	NDUFAF3	Q9BU61	NDUF3_HUM	Oxidation (M)	1439000	1387400	1339600	0	0	33396	0	0	0
LQSSEAEVR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	6914200	3665100	2713200	1316900	1326300	1340900	0	0	0
LQSSNIFTVAK	AP1B1	Q10567	AP1B1_HUM	Unmodified	2644200	0	0	0	47567	0	0	0	0
LQSSQEPEAPPPR	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Unmodified	2253000	3559000	1329500	0	0	0	0	0	0
LQSSQEPEAPPPRDVALLQGR	MAGED2; MAGED2	Q9UNF1; Q5H907	MAGD2_HUM	Unmodified	5773200	7020800	7044600	41492	71596	97097	0	0	0
LQSWLYSSR	NDUFA10; NDUFA1(	O95299; Q8N1B9	NDUAA_HUM	Unmodified	635710	940280	832370	0	0	0	0	0	0
LQTASDESYKDPTNIQSK	SPTAN1	Q13813	SPTN1_HUM	Unmodified	646750	387380	422750	0	0	35329	0	0	0
LQTFLSK	GTF3C1; GTF3C1	Q12789; H3BU55	TF3C1_HUM	Unmodified	17641000	15650000	0	0	0	0	0	0	0
LQTFPLVR	DNAL4; DNAL4	O96015; B0QXZ5	DNAL4_HUM	Unmodified	547530	543990	606180	64910	112000	93796	0	16886	0
LQTGPEKAELQELNAR	SYNM; SYNM; SYNI	O15061; C9JIE4;	SYNEM_HUM	Unmodified	129480	0	0	0	0	0	104810	118350	81357
LQTLVSEQPNKDVVEQMEK	KTN1	Q86UP2	KTN1_HUMA	Oxidation (M)	1340300	0	1232000	0	0	0	0	0	0
LQTMKEELDFQK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M)	7072300	7051700	6042900	564640	720360	397320	0	38362	0
LQTQMDQDEGTKYRQMR	COG3	Q96JB2	COG3_HUMA	2 Oxidation (M);3 !	1130600	1315300	1116400	225850	1515200	1711000	1233900	1344100	1428900
LQTQVFK	RPS9; RPS9; RPS9	P46781; B5MCT8	RS9_HUMAN	Unmodified	815060	951580	1041000	0	0	0	0	0	0
LQTSSVLVSGLR	UBA1; UBA1; UBA1	P22314; Q5JRS1;	UBA1_HUMA	Unmodified	3255200	3608100	3171200	20720	29329	33391	0	0	0
LQTTDNLLPMSPEEFDEVSR	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Oxidation (M)	3104000	4434200	3479800	15241	0	0	0	0	0
LQVEELLK	NOL6; NOL6	Q9H6R4; A0A0A(	NOL6_HUMA	Unmodified	378510	239260	348250	0	0	0	0	0	0
LQVEEVHQLSR	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH_HUM	Unmodified	7322200	8229600	8835600	408250	453240	384150	56813	0	40770
LQVEPAVDTSGVQCYGPGIEGQGVFR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	0	0	1455900	0	0	0	0	0	0
LQVIQFK	ACADS; ACADS	P16219; E9PE82	ACADS_HUM	Unmodified	1262600	1341500	888660	0	0	0	0	0	0
LQVQYR	UPF1	Q92900	RENT1_HUM	Unmodified	1667500	1732100	854130	0	0	0	0	0	0
LQVSQQEDITK	IMPA1; IMPA1; IMP	P29218; E5RG13	IMPA1_HUM	Unmodified	2630300	3713500	2530800	0	0	0	0	0	0
LQVTMPGIK	AHNAK	Q09666	AHNK_HUMA	Oxidation (M)	0	1193200	786620	389070	428690	406460	132580	75811	125030
LQVTNVLSQPLTQATVK	RPN2; RPN2; RPN2	P04844; Q5JYR7;	RPN2_HUMA	Unmodified	1905600	1512900	1022000	27451	0	0	0	0	0
LQVVDQPLPVR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	9886300	9619700	10235000	288660	266930	271830	64923	42250	37767
LQVVLEHMPVGPDAILR	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6_HUMA	Oxidation (M)	1082500	834550	881990	0	0	0	0	0	0
LQYAVSGLEPLAWSEDHRVSVSTAR	GTF3C4; GTF3C4	Q9UKN8; F2Z356	TF3C4_HUM	Unmodified	636960	380940	467310	0	0	0	0	0	0
LQYSQDIPSHLADEHALIASYVAR	DTNB; DTNB	O60941; E7EVB6	DTNB_HUM	Unmodified	1468600	521820	1105400	0	0	0	0	0	0
LQYTEHQQLEGWR	TFCP2; TFCP2L1; TI	Q12800; Q9NZI6;	TFCP2_HUM	Unmodified	636420	372680	615490	0	0	0	0	0	0
LRAALMESQGQQQEER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Oxidation (M)	814280	642010	592290	38287	0	0	0	0	0
LRAELDEVNKSAK	LMNB2	Q03252	LMNB2_HUM	Unmodified	0	827910	880950	0	0	26756	0	0	0
LRAETEQGEQQR	PLEC	Q15149	PLEC_HUMA	Unmodified	1546700	1466000	1396900	230840	218410	190170	0	0	0
LRAPDLEYLFEKPR	SDHAF2; SDHAF2	Q9NX18; F5GYJ5	SDHF2_HUM	Unmodified	6372100	5396500	2980700	0	0	0	0	0	0
LRAVDFAER	RPL8; RPL8; RPL8; I	P62917; E9PKU4;	RL8_HUMAN	Unmodified	285070	747130	879380	37245	0	0	0	0	0
LRDLEDSLAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	2107300	2753500	2672300	222780	202450	224440	0	0	0
LRDNGLLAKPTHGDIIR	OAT	P04181	OAT_HUMAN	Deamidation (N)	3987200	3907000	5566800	0	44332	0	0	0	0
LRDPDINPCLSESDASTR	CHCHD7; CHCHD7;	Q9BUK0; E5RHM	CHCH7_HUM	Unmodified	899200	1078500	868580	66345	89604	97064	0	0	0
LRDVAALNGLYR	EMC10; EMC10	Q5UCC4; M0R2A	EMC10_HUM	Deamidation (N)	2017100	2000900	3205200	0	0	0	0	0	0
LREAEETQSTLQAECDQYR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	0	896480	674280	73173	75954	53724	0	0	0
LREDAPLR	LEMD2; LEMD2	Q8NC56; D6RBV(	LEMD2_HUM	Unmodified	927860	1605800	1451500	211720	203820	288480	45186	0	31789
LREDENAEPVGTTYQK	DBN1; DBN1	Q16643; D6R9W4	DREB_HUMA	Deamidation (N)	4142200	3192100	2505100	0	32949	0	0	0	0
LREDENAEPVGTTYQKTDAAVEMKR	DBN1; DBN1	Q16643; D6R9W4	DREB_HUMA	Oxidation (M)	5006900	3724000	1636700	0	0	0	0	0	0
LREEIEELKR	USO1	O60763	USO1_HUMA	Unmodified	1356700	1204600	1230900	51871	0	0	0	0	0
LREENKQFKEEDGLR	VAPB	O95292	VAPB_HUMA	Unmodified	1215400	575470	1036900	25443	17957	28016	0	0	0
LREKDKHIEEVR	STMN1	P16949	STMN1_HUM	Unmodified	2326000	2075700	272350	0	0	0	0	0	0
LRELGPDGEEAEGPGAGDGPPR	NELFE; NELFE; NEL	P18615; A0A0A0	NELFE_HUM	Unmodified	414160	0	346520	0	0	0	0	0	0
LREMLKEELRK	BDP1; BDP1; BDP1;	A6H8Y1; A0A0G	BDP1_HUMA	Oxidation (M)	979170	643740	844100	0	0	0	9962.9	0	0
LREMMEEIENAINTFKEEQR	CCDC112; CCDC112	Q8NEF3; D6RF76	CC112_HUM	Oxidation (M);3 M	8014800	8066700	7086400	5128600	5189600	4377300	527150	0	4040000
LREMSPLWEMVQDGIDLK	NFS1	Q9Y697	NFS1_HUMA	2 Oxidation (M)	775860	588270	1109200	0	0	0	0	0	0
LRENVFQEHQTLK	CTTN	Q14247	SRC8_HUMA	Unmodified	1952300	2497400	2700100	132700	0	0	0	0	0
LRENVFQEHQTLKEKELETGPK	CTTN	Q14247	SRC8_HUMA	Unmodified	3382100	3839300	2041400	0	0	0	0	0	0
LREQLQLLEEQHR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1823700	1886800	1601200	149340	68831	44470	0	0	0
LREQYGLGPYEAVTPLTK	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B_HUM	Unmodified	1832600	1079500	1144600	0	0	0	0	0	0
LREVHGGGAEREVALER	TBCD; TBCD	Q9BTW9; J3KR97	TBCD_HUMA	Unmodified	1516900	1793700	1968900	46444	49801	56743	0	0	0
LREVVETPLLHPER	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	4485200	4904000	5531400	0	98512	54320	0	0	0
LREYEAALNSK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	385970	866450	549160	0	0	0	0	0	0
LREYEAALNSKDAALATALGDKK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	10385000	11648000	16328000	0	0	0	0	0	0
LRFPAEDEFPDLSAHNNHMAK	CKB; CKB	P12277; G3V4N7	KCRB_HUMA	Oxidation (M);Deam	30421000	30533000	38735000	56337	48388	26267	0	0	0
LRFPAEDEFPDLSAHNNHMAK	CKB; CKB	P12277; G3V4N7	KCRB_HUMA	Oxidation (M);2 De	28685000	30148000	24430000	0	0	0	0	0	0
LRFPAEDEFPDLSAHNNHMAK	CKB; CKB	P12277; G3V4N7	KCRB_HUMA	Oxidation (M)	2758000	3081100	3021400	0	0	0	0	0	0
LRGDAAAGPGPGAGAGAAAEPEPR	NXN; NXN	Q6DKJ4; A0A0G2	NXN_HUMA	Unmodified	1788700	1922500	2123400	0	0	48779	0	0	0
LRGIEQAVQSHAVAEEEAR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	10707000	10157000	14223000	233380	254890	240260	0	0	0
LRGNQQMHRKTASLNSPVSCK	GRAMD2A	H3BUI8	H3BUI8_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
LRGPSGGGEEPALSQYQR	NUP88; NUP88	Q99567; J3KMX1	NUP88_HUM	Unmodified	3524500	3232600	2929600	162780	188300	148230	24400	0	20914
LRGWEAFLNAPEANR	HTATSF1	O43719	HTSF1_HUM	Unmodified	1854700	413480	1753100	0	0	0	0	0	0
LRHEILLSQSVR	ALDH18A1	P54886	P5CS_HUMA	Unmodified	0	731090	1056500	0	0	0	0	0	0
LRIPDFCPPAPDQIDR	DUSP23	Q9BVJ7	DUS23_HUM	Unmodified	515020	517160	456300	0	0	0	0	0	0
LRITESEEVVSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	1680700	1577100	1537600	175950	134470	0	71823	0	47542
LRITESEEVVSREVSGIK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	1293900	567350	452100	0	0	0	0	0	0
LRLDSIVIQQGR	SMARCA1; SMARC	P28370; O60264;	SMCA1_HUM	Unmodified	2403000	2476000	2190100	12514	0	19968	0	0	0
LRLDTGPQSLSGK	GTF2F1; GTF2F1	P35269; M0QXD6	T2FA_HUMA	Unmodified	3335500	2234600	1966200	0	0	0	0	0	0
LRLEEDKPAVER	UTP18	Q9Y5J1	UTP18_HUM	Unmodified	1291200	623490	0	0	0	0	0	0	0
LRLEHEQASQPTPEK	DTNA; DTNB; DTNA	Q9Y4J8; O60941;	DTNA_HUM	Unmodified	428620	0	476870	0	0	0	0	0	0
LRLLQAETASNSAR	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
LRLPQVSPADSGEYVCR	HSPG2	P98160	PGBM_HUMA	Unmodified	0	1720600	1038400	204300	201050	163940	96397	69791	0
LRLQAEEVAQQK	PLEC	Q15149	PLEC_HUMA	Unmodified	2474300	2721200	3688100	264420	293940	293890	0	0	0
LRLREDENAEPVGTTYQK	DBN1; DBN1	Q16643; D6R9W4	DREB_HUMA	Unmodified	514970	565250	588630	21546	0	16402	0	0	0
LRLREDENAEPVGTTYQK	DBN1; DBN1	Q16643; D6R9W4	DREB_HUMA	Deamidation (N)	834720	476490	1046000	0	0	0	0	0	0
LRNEKEQELDTLKR	TOP2A	P11388	TOP2A_HUM	Unmodified	1046100	912340	1007300	0	0	0	0	0	0
LRNGHVGISFVPKETGEHLVHVK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Deamidation (N)	0	822420	579200	0	0	0	0	0	0
LRPEPCISLEPR	KPRP	Q5T749	KPRP_HUMA	Unmodified	1548000	0	1353500	257450	173060	183130	0	0	0
LRPESALAQAQK	TOMM70	O94826	TOM70_HUM	Unmodified	3871700	3274400	3952000	0	0	0	0	0	0
LRPQTYDLQESNVQLK	SEPTIN8; SEPTIN8;	Q92599; C9J4G8;	SEPT8_HUM	Unmodified	1720500	1162200	1863400	0	52237	58767	0	0	0
LRQGDLPVASFTPEER	EPM2AIP1	Q7L775	EPMIP_HUM	Unmodified	1034300	975060	577640	84737	75298	61863	0	0	0
LRQLAEEDLAQQR	PLEC	Q15149	PLEC_HUMA	Unmodified	2512200	1290600	1856300	558260	118240	140910	0	21507	0
LRQMEAQLEEKNQELQR	PPFIA1; PPFIA1; PPI	Q13136; E9PJZ7;	LIPA1_HUM	Oxidation (M)	0	1119000	1807000	0	28384	0	0	0	0
LRRGGDPGLMHGK	RDH14	Q9HBH5	RDH14_HUM	Unmodified	5311400	5246800	4657300	50435	46759	0	0	0	0
LRSGEPQTFTLK	ITGB1; ITGB1; ITGB	P05556; E7EQW5	ITB1_HUMA	Unmodified	5153400	5047500	5632500	81210	44778	60934	20508	0	14462
LRSIPLDEGEDEAQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	736500	1212100	903070	78561	111580	153920	0	0	0

LRSYEDMIGEEVPSDQYYWAPLAQHER	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	Oxidation (M)	0	3036100	4922100	0	0	0	0	0	0
LRTYLSEGPYYVKPVSTTAVEGAE	PSMD5	Q16401	PSMD5	HUM	Unmodified	3522400	4815200	3651500	0	0	0	0	0	0
LRVEFPR	SRSF9; SRSF1; SRSF	Q13242; Q07955;	SRSF9	HUM	Unmodified	16686000	14920000	10892000	471090	762420	610720	0	38222	0
LRVLLQEEGTR	DSP	P15924	DESP	HUM	Unmodified	1798200	1510200	1732500	0	0	0	14029	17301	11201
LRVQSPEPPAPER	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	1667800	1486900	1105800	145110	93911	0	0	0	0
LSAALSSLQR	CAMSAP3	Q9P1Y5	CAMP3	HUM	Unmodified	1102500	844960	820950	0	0	0	0	0	0
LSAAVTEAFVR	VARS1; VARS1	P26640; A0A140	SYVC	HUM	Unmodified	995300	613740	1151500	0	25361	0	0	10132	0
LSAEAAEK	MCM5; MCM5	P33992; B1AHB1	MCM5	HUM	Unmodified	0	3353000	0	0	0	0	0	0	0
LSAEAARR	TUBGCP6; TUBGCP	Q96RT7; E7EQL8	GCP6	HUM	A 2 Methyl (KR)	0	0	0	0	0	0	0	0	0
LSAEAEKVLALPEPSPAAPTLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	452120	305850	273080	0	0	0	0	0	0
LSAEDLVLEGAGLR	LAMC1	P11047	LAMC1	HUM	Unmodified	2877400	2796900	3022800	0	0	0	0	0	0
LSAEERDQLLPNLR	PCBD1	P61457	PHS	HUMAN	Unmodified	73183000	62299000	55970000	898760	859510	741630	88206	92643	80506
LSAEERDQLLPNLR	PCBD1	P61457	PHS	HUMAN	Deamidation (N)	2358800	4764900	2626400	26222	17090	24320	0	0	0
LSAEKVEIATLTR	PSMA4; PSMA4; PSI	P25789; H0YL69;	PSA4	HUM	Unmodified	1560100	1132600	1153500	0	0	0	0	0	0
LSAETLQQVNR	PUS1; PUS1; PUS1	Q9Y606; F5H1S9;	TRUA	HUM	Unmodified	505830	706310	657850	0	0	0	0	0	0
LSAFGQIYK	STRBP	Q96SI9	STRBP	HUM	Unmodified	1398700	1574100	1816600	30584	46215	40853	0	0	0
LSAIFLR	PBRM1; PBRM1; PB	Q86U86; H0Y5B5	PB1	HUMAN	Unmodified	364580	254510	418220	0	0	0	0	0	0
LSAIYGGTYMLNKPIEEIIVQNGKVIGVK	GDI2; GDI2; GDI2	P50395; Q5SX91;	GDIB	HUMA	Oxidation (M);Deai	3346900	0	1149700	0	0	0	0	0	0
LSAIYGGTYMLNKPVDDIIMENGKVVGVK	GDI1	P31150	GDIA	HUMA	2 Oxidation (M);De	6502500	5110400	5578400	0	0	0	0	0	0
LSAKPAPPKPEPK	HMGN3; HMGN2; H	Q15651; P05204;	HMGN3	HUM	Unmodified	4391300	3080600	3709100	0	0	0	0	0	0
LSALLQETK	USO1	O60763	USO1	HUMA	Unmodified	2850300	1961700	2068400	0	0	0	0	0	0
LSAMKSAVESGQADDERVR	IGBP1	P78318	IGBP1	HUM	Oxidation (M);3 M	0	0	0	0	0	0	0	0	0
LSAMLVPVTPEVKPK	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	Oxidation (M)	10414000	6239500	8825200	398590	283950	380570	0	0	0
LSAMLVPVTPEVKPKR	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	Oxidation (M)	1030600	1173100	837830	0	27428	0	0	0	24231
LSANRGDMRRMR	TMEM17	Q86X19	TMM17	HUM	Oxidation (M);Metl	0	0	1535800	0	0	0	0	0	0
LSAQAQVAEDILDKYR	GAPVD1; GAPVD1	Q14C86; F8W9S7	GAPD1	HUM	Unmodified	1004400	1623400	0	0	0	0	0	0	0
LSASSLTMESFAFLWAGGR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M)	1828300	426480	1097700	0	0	0	0	0	0
LSASTASELSPK	MAP7D1; MAP7D1	Q3KQU3; H0YF2	MA7D1	HUM	Unmodified	0	448810	445310	56511	0	66420	0	0	0
LSAVEAIANAISVVSSNGPGNR	UBR5; UBR5; UBR5	O95071; H0YBB4	UBR5	HUMA	Deamidation (N)	256150	79625	148890	0	0	0	0	0	0
LSDAGITPLFLTR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	6065700	6592100	7757400	26171	67080	77138	64656	0	58494
LSDDNTIGKEEIQQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Deamidation (N)	551170	627680	641880	0	39690	62498	0	0	0
LSDDNTIGKEEIQQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM.	Unmodified	863890	1880900	0	0	51277	66478	0	0	0
LSDEEVDEMIR	CALML3	P27482	CALL3	HUM	Oxidation (M)	8807500	8546500	10652000	0	0	0	0	0	0
LSDEHEPEQR	DBR1	Q9UK59	DBR1	HUMA	Unmodified	1687600	1864600	1983400	185820	207170	172060	0	0	0
LSDETLLEISKR	HK2; HK2	P52789; E9PB90	HXK2	HUM	Unmodified	4376400	2918600	5143300	0	0	0	0	0	0
LSDFKQVLLR	CPSF2; CPSF2	Q9P21(; H0YJF4	CPSF2	HUM	Unmodified	1805600	1217000	1013500	36351	41417	32618	0	0	0
LSDFNDITNMLLLK	PRKDC	P78527	PRKDC	HUM	Oxidation (M);Deai	1018000	920780	811500	0	0	0	0	0	0
LSDGIGVMLPQVLK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUMA	Oxidation (M)	7401700	6134700	9253200	0	0	0	0	0	0
LSDGVAVLK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	107800000	89586000	107500000	2429800	2068000	2225700	27612	46687	25798
LSDIGEGIR	DBT; DBT; DBT	P11182; A0A7P0	ODB2	HUMA	Unmodified	1199200	1597300	1050500	0	76030	0	0	0	0
LSDIGEGIREVTVK	DBT; DBT; DBT	P11182; A0A7P0	ODB2	HUMA	Unmodified	672970	641950	841770	0	0	22373	0	0	0
LSDIGEGIREVTVKEWYVK	DBT; DBT; DBT	P11182; A0A7P0	ODB2	HUMA	Unmodified	244150	683260	379430	0	0	0	0	0	0
LSDIPEGK	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL	HUM.	Unmodified	0	0	317740	0	0	0	0	0	0
LSDKGLKAELMER	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Oxidation (M)	44372000	26346000	45562000	275470	324890	373820	0	0	0
LSDLDSETR	NUDC	Q9Y266	NUDC	HUM	Unmodified	6755600	7725800	8289500	122350	112170	163860	0	0	0
LSDLDSETRSMVEK	NUDC	Q9Y266	NUDC	HUM	Oxidation (M)	1074000	1996900	910630	0	0	0	0	0	0
LSDLDSETRSMVEKMMYDQR	NUDC	Q9Y266	NUDC	HUM	3 Oxidation (M)	1838200	2215700	998710	0	0	0	0	0	0
LSDLQKEAEKLESEHPDQAQAILSR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM.	Unmodified	3340400	3155000	7250600	0	0	0	0	0	0
LSDQDLDQALSDEELNAFQK	RHOT2; RHOT2	Q8IXI1; H3BST5	MIRO2	HUM	Unmodified	1258300	2133200	0	0	0	0	0	0	0
LSDQFHDILIR	PDCD6; PDCD6; PDC	O75340; H0Y9X3	PDCD6	HUM	Unmodified	3921400	5834200	2629500	0	20286	0	0	7291.2	0
LSDSYSNTLPVRK	BAIAP2; BAIAP2; B	Q9UQB8; I3L4C2	BAIP2	HUM	Unmodified	0	462160	379880	0	0	0	0	0	0
LSDTTEYQPILSSYSHR	RPRD2	Q5VT52	RPRD2	HUM	Unmodified	1042200	1502900	1169600	48840	55980	45841	0	0	0
LSEADIR	TYMP; TYMP; TYM	P19971; C9JG83;	TYPH	HUMA	Unmodified	5108700	0	0	0	0	0	0	0	0
LSEDSLTKQPEEVFDVLEK	STK3; STK3; STK3;	Q13188; Q8NBU1	STK3	HUMA	Unmodified	991740	1573500	686300	0	0	0	0	0	0
LSEDYGVLK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2	HUM	Unmodified	15133000	11934000	14016000	547640	393010	478550	59821	0	0
LSEDYGVLKTDEGIAYR	PRDX2	P32119	PRDX2	HUM	Unmodified	46052000	38400000	38215000	191940	169380	0	36935	26823	30345
LSEDYGVLKTDEGIAYR	PRDX2	P32119	PRDX2	HUM	Methyl (KR)	0	1911900	2559300	0	0	0	0	0	0
LSEEASQALIEAYVDMR	MCM4; MCM4; MC	P33991; A0A3B3	MCM4	HUM.	Oxidation (M)	2409400	3536000	4905700	0	0	0	0	0	0
LSEEASQALIEAYVDMRK	MCM4; MCM4; MC	P33991; A0A3B3	MCM4	HUM.	Oxidation (M)	18218000	15271000	17717000	0	0	0	0	0	10038
LSEEFLTAHPR	TBCE; TBCE; TBCE;	Q15813; A0A2R8	TBCE	HUM	Unmodified	1618900	1011000	1585000	0	0	0	0	0	0
LSEELSGGR	ACTR3B; ACTR3; A	Q9P1U1; P61158;	ARP3B	HUM	Unmodified	3225300	5470500	3806500	230650	0	0	0	0	0
LSEFDVEMSMREDVYQR	THOP1; THOP1	P52888; K7EKB6	THOP1	HUM	2 Oxidation (M)	2391700	2391600	2173000	0	0	0	0	0	0
LSEFGIR	UBA2; UBA2; UBA2	Q9UBT2; K7ESK7	SAE2	HUMA	Unmodified	6005500	4827400	5062100	39072	52804	129080	15503	0	0
LSEFGIRNGSR	UBA2; UBA2; UBA2	Q9UBT2; K7ESK7	SAE2	HUMA	Deamidation (N)	3555500	3510300	3513900	75090	78844	0	0	0	0
LSEFGLIQEK	ACAD9; ACAD9; AC	Q9H845; H0Y8Z9	ACAD9	HUM	Unmodified	1382400	1690000	1612700	0	36290	33955	0	0	0
LSEGSQPAEEEEDQETPSR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	1456000	1187900	1419800	162050	77484	0	0	0	0
LSEGSQPAEEEEDQETPSRNLR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Deamidation (N)	1442900	738400	2042200	0	0	0	0	0	0
LSEGSQPAEEEEDQETPSRNLR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	0	0	0	152960	921260	1337500	0	0	0
LSEGVTISYK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	1090600	1101700	682580	32872	0	0	0	0	0
LSEHATAPTR	DUT; DUT; DUT; DU	P33316; H0YNJ9;	DUT	HUMA	Unmodified	2332000	1654200	3225500	0	0	0	0	0	0
LSEIDVSSEGVK	EFHD2; EFHD2	Q96C19; H0Y4Y4	EFHD2	HUM	Unmodified	6228700	6697900	5667900	49675	32892	0	0	0	0
LSEIDVSSEGVKGAK	EFHD2; EFHD2	Q96C19; H0Y4Y4	EFHD2	HUM	Unmodified	10354000	10221000	10203000	85397	127340	93159	0	0	0
LSEIMEK	AK1; AK1	P00568; Q5T9B7	KAD1	HUMA	Oxidation (M)	2772800	2863500	3007900	0	0	0	0	0	0
LSEIPLTLHSVSELVR	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	782690	734420	899060	0	0	0	0	0	0
LSEIVTLAK	SUCLA2; SUCLA2; S	Q9P2R7; A0A2R8	SUCB1	HUM	Unmodified	3199700	2934200	2148100	36434	40928	36497	0	0	0
LSEKSVEERDSGSFVAFQNIPGSELMSSFAK	TMPO	P42166	LAP2A	HUM	Oxidation (M)	765250	1018300	0	0	0	0	0	0	0
LSELDDR	VAMP3; VAMP2; V/	Q15836; P63027;	VAMP3	HUM	Unmodified	5345000	4412300	6750700	69649	111190	152310	0	0	0
LSELDDRADALQAGASQFETSAAK	VAMP3; VAMP2; N/	Q15836; P63027;	VAMP3	HUM	Unmodified	0	0	1308900	0	0	0	0	0	0
LSELLPEEVEAEVK	NOP58; NOP58	Q9Y2X3; H7BZ72	NOP58	HUM	Unmodified	5227900	3711000	5573600	32000	19062	0	0	0	0
LSELQLR	TMED9; HERC1; ZF	Q9BVK6; Q15751	TMED9	HUM	Unmodified	6547200	7183500	0	0	0	0	0	0	0
LSEMTEAEQQQLIDDHFLFDKPVSPLLTAAGMAR	CKMT1A; CKMT1A	P12532; F8WCN3	KCRU	HUM	2 Oxidation (M)	3630000	985300	4134400	0	0	0	0	0	0
LSENVIDR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Unmodified	7824100	8357800	8257700	248210	194860	512240	0	0	0
LSENVIDRMK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Oxidation (M)	544040	538270	522760	51000	34678	0	0	0	0
LSENVIDRMKESSPSGSK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Oxidation (M)	1264700	1118300	1256100	0	0	0	0	0	0
LSENVVNR	CHCHD6; CHCHD6;	Q9BRQ6; J3QTA6	MIC25	HUM	Unmodified	6124200	6858400	5767100	102520	362010	210190	10843	0	0
LSENVVNR	CHCHD6; CHCHD6;	Q9BRQ6; J3QTA6	MIC25	HUM	Deamidation (N)	0	2206200	0	0	0	0	0	0	0
LSEPAELTDAVK	KLK3; KLK3; KLK3;	P07288; M0R294;	KLK3	HUMA	Unmodified	0	0	0	249740	266650	325210	322410	230960	223980
LSEQELQFR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	7469100	5853000	5173900	254410	202650	52487	0	0	0
LSEQELQFRR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	5587200	2963700	5499900	75202	55785	88301	0	0	0
LSESQLSFR	RBM14	Q96PK6	RBM14	HUM	Unmodified	9876500	12419000	10819000	205160	269500	246130	0	0	0
LSETSPAFR	TRMT1	Q9NXH9	TRM1	HUM	Unmodified	1846200	2216500	0	99694	75422	59787	0	0	0
LSETWLR	TRMT6	Q9UJA5	TRM6	HUM	Unmodified	0	2294500	2749700	29538	20998	0	0	0	0
LSEVQASLHG	DNAJB12; DNAJB12	Q9NXW2; V9GY7	DJB12	HUM	Unmodified	554500	465440	303330	129460	100070	100600	0	0	0
LSEVVGSGK	DBT; DBT; DBT; DB	P11182; A0A7P0	ODB2	HUMA	Unmodified	4511400	5443600	508300	164010	150530	196520	0	0	0
LSFAVPFR	PRKDC	P78527	PRKDC	HUM	Unmodified	5874800	5772000	5493400	25074	0	0	0	0	0
LSFDKDAMVAR	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Oxidation (M)	4540300	3690500	3382200	179560	0	235190	0	0	0
LSFEDFVTMTASR	PEF1	Q9UBV8	PEF1	HUMA	Oxidation (M)	7956200	5703200	2899300	30420	23479	13272	0	0	13109
LSFMPFFLK	DBT; DBT; DBT; DB	P11182; A0A7P0	ODB2	HUMA	Oxidation (M)	690850	867780	1078000	0	0	0	0	0	0
LSFPSTNNLSMTFDGRLVKK	GABRR1	P24046	GBRR1	HUM	Oxidation (M);2 M	0	0	2868900	0	0	0	0	0	0
LSFQHDPETSVLVLR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	12370000	10560000	10913000	45913	40086	25035	0	0	0
LSFYETGEIPR	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	7372700	7681200	6942500	78686	64083	57139	0	0	0
LSFYETGEIPRK	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	1869500	1709500	2636000	0	0	0	0	0	0
LSGAQADLHIEDGDSIR	ETHE1; ETHE1	O95571; M0QXB	ETHE1	HUM	Unmodified	1002200	1200600	1247800	0	77239	0	0	0	0
LSGIEER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM.	Unmodified	3842800	7528800	3588600	0	413680	237950	0	0	0
LSGPAELR	CTAGE1; MIA2; MI	Q96RT6; Q96PC5	CTGE2	HUM	Unmodified	2085400	1846200	1455200	120950	93836	130390	35455	0	0
LSGPLKEQYAQEHGLNFQR	PMVK	Q15126	PMVK	HUM	Unmodified	2321300	3019200	1776200	0	0	0	0	0	0
LSGPSLKMPSLEISAPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	49381	63588	41018	0	0	0
LSGQDVER	OGDHL; OGDH; OGI	Q9ULD0; Q02218	OGDHL	HUM	Unmodified	817150	1095500	3267600	111700	87153	0	0	0	0
LSGQDVGR	DHTKD1; DHTKD1	Q96HY7; H7C149	DHTK1	HUM	Unmodified	0	0	0	105710	31482	70423	0	0	0
LSGSARPQELVGTFIQQEVGKPEDEASGSFFK	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	1507000	1393200	0	0	0	0	0	0	0
LSGSHSQGVAYPVR	HSPG2	P98160	PGBM	HUM	Unmodified	1026400	754860	970280	107890	110350	104970	0	0	0
LSGSNPYTTVTPQIINSK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	1259400	1220000	886050	0	0	0	0	0	0
LSGSNPYTTVTPQIINSKWEK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Deamidation (N)	1665600	1687100	1482400	0	0	0	0	0	0
LSGTGSAGATIR	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Unmodified	4336300	1796200	4013400	0	0	0	0	0	0
LSGVMVPAPIQDLEALR	ATXN10; ATXN10	Q9UBB4; A0A1W	ATX10	HUM	Oxidation (M)	983770	932140	1123200	0	0	0	0	0	0
LSHEGPGSELPAGALYR	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1	HUM	Unmodified	1719700	2080800	1738900	0	0	97894	0	0	0
LSHSMSPDAQDGH	COBLL1; COBLL1;	Q5JSF7; A0A0D9	COBL1	HUM	Oxidation (M)	0	0	0	300520	331630	260960	0	0	0
LSHVPPLFPSAPATLASR	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Unmodified	1204200	1151300	1225900	0	0	0	0	0	0
LSILYPATTGR	PRDX6	P30041	PRDX6	HUM	Unmodified	0	1956400	1873000	25022	0	0	0	0	0
LSIMKDEPEAELILHDALR	TTC19; TTC19	Q6DKK2; K7EJA	TTC19	HUM	Oxidation (M)	478790	327340	676190	0	0	0	0	0	0
LSINTHPSQKPLSITVR	C3	P01024	CO3	HUMAN	Deamidation (N)	952800	879230	1103800	50530	0	0	0	0	0
LSIPTYGLQCTR	FASN; FASN; FASN	P49327; J3KTF0;	FAS	HUMAN	Unmodified	1650200	1411800	1563600	36538	28568	37932	27872	19933	0
LSKDPNIVIAK	PDIA3	P30101	PDIA3	HUM	Methyl (KR)	1293700	1611100	0	59494	52201	47174	0	0	0
LSKDPNIVIAK	PDIA3	P30101	PDIA3	HUM	Unmodified	1214900	1188500	1478500	46347	50698	92229	0	0	0
LSKDPNIVIAKMDATANDVPSPYEVR	PDIA3	P30101	PDIA3	HUM	Oxidation (M);Deai	2128100	2295000	2088400	27190	0	0	0	0	0
LSKEDIER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	23799000	24147000	33141000	0	0	672000	0	0	0
LSKEEIER	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Unmodified	17350000	16035000	16446000	1729000	1361900	2053800	0	0	0
LSKEETVLATVQALQTASHLSQQADLR	RPN2	P04844	RPN2	HUMA	Unmodified	1822500	0	1710200	0	0	0	0	0	0
LSKELQAAQAR	APOE; APOE; APOE	P02649; H0Y7L5;	APOE	HUM	Unmodified	1037400	906980	0	88162	105560	73886	16127	16104	12323
LSKIELLEATEK	SMC5	Q8IY18	SMC5	HUM	Unmodified	482550	577710	572380	11027	13495	0	0	0	0
LSKNEAPEGNLGDFAEFQR	GTF3C4	Q9UKN8	TF3C4	HUM	Unmodified	0	1235700	949740	0	0	0	0	0	0
LSLDELHR	ATP1A1; ATP1A1; A	P05023; Q5TC02;	AT1A1	HUM	Unmodified	320620	463630	0	0	0	0	0	0	0

LSLDELHRK	ATP1A1; ATP1A1; A	P05023; Q5TC02;	AT1A1_HUM	Unmodified	0	0	969390	0	0	0	0	0	0
LSLDGQNIYNACCTLR	PTBP1; PTBP1; PTB	P26599; A0A087X	PTBP1_HUM	Unmodified	320810	659530	648420	0	0	21014	0	0	0
LSLDLLSQMSPGDLAK	LRSAM1; LRSAM1;	Q6UWE0; A0A6Q	LRSM1_HUM	Oxidation (M)	453900	486480	576630	0	0	0	0	0	0
LSLDTDAR	SLTM; SLTM; SLTM	Q9NWH9; H7C3F	SLTM_HUM	Unmodified	1326300	1186200	1412200	101120	102170	116630	0	0	0
LSLEEFIR	NCALD; HPCA; HPC	P61601; P84074; I	NCALD_HUM	Unmodified	1217600	1286600	1094700	0	0	0	79050	68276	64983
LSLEFGDPASSLFR	PDE12; PDE12	Q6L8Q7; F6T1Q0	PDE12_HUM	Unmodified	406710	268830	416490	0	0	0	0	0	0
LSLELFGR	UBR5; UBR5; UBR5	O95071; E5RFK7;	UBR5_HUM	Unmodified	373100	419450	376450	0	0	0	0	0	0
LSLMYAR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	4321100	4418600	3981700	0	132560	116030	0	0	0
LSLNIDPDAK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	43643000	29884000	47988000	49436	590910	663480	21141	0	0
LSLNNGSITHLVIRPNGR	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5_HUM	2 Deamidation (N)	4764300	8427800	268680	0	0	0	0	0	0
LSLNNGSITHLVIRPNGR	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5_HUM	3 Deamidation (N)	1220800	1435700	2015300	0	0	0	0	0	0
LSLNRQFFDER	DYNC1I2; DYNC1I2	Q13409; E7EQL5	DC1I2_HUM	Deamidation (N)	897730	0	997490	0	10646	11728	0	0	0
LSLPPNVR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1605300	1889000	2239000	0	0	0	0	0	0
LSLPTDLK	STXBP5; STXBP5; S	Q5T5C0; H0Y332	STXB5_HUM	Unmodified	0	0	1575400	0	0	0	0	0	0
LSLQDAVSQGVIDQDMATR	DSP	P15924	DESP_HUMA	Oxidation (M)	14174000	12137000	13358000	66916	49417	0	0	0	0
LSLTQDPVVK	HSPA4L; HSPA4L	O95757; E9PDE8	HS74L_HUM	Unmodified	670190	0	711050	0	0	0	0	0	0
LSLTQSDISHIGSMR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Oxidation (M)	4784400	6268600	5792200	55183	0	0	0	0	0
LSLVDLAGSER	KIF23; KIF13B; KIFC	Q02241; Q9NQT8	KIF23_HUM	Unmodified	2742700	3002700	3203900	0	34133	30415	0	0	0
LSLVPSSAR	FLAD1; FLAD1	Q8NFF5; Q5T196	FAD1_HUM	Unmodified	1693200	1313700	1502100	37286	23878	20350	0	0	0
LSMKPEPLFR	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Oxidation (M)	1538100	0	0	0	0	117810	0	0	0
LSMMIHPAAFTLEHIPK	SUN1; SUN1; SUN1	O94901; H0Y742;	SUN1_HUMA	2 Oxidation (M)	1211000	746670	862680	0	0	0	0	0	0
LSMPTQQASGQTPPR	ELF2	Q15723	ELF2_HUMA	Oxidation (M)	589910	700450	0	0	0	0	0	0	0
LSMWDRPDDLIGR	TCERG1; TCERG1;	O14776; A0A7P0	TCRG1_HUM	Oxidation (M)	0	1281300	0	43451	33354	24302	0	0	0
LSNIFVIGK	RPS4X	P62701	RS4X_HUMA	Unmodified	34393000	37062000	38991000	845760	767950	780130	24360	31585	37475
LSNKVEAIDVEEAK	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4_HUM	Unmodified	841290	943750	840070	0	0	0	0	0	0
LSNKVEAIDVEEAKR	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4_HUM	Unmodified	7476000	7454700	6723400	0	0	0	0	0	0
LSNKVEAIDVEEAKR	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4_HUM	Deamidation (N)	3888800	3299000	2623400	0	0	0	0	0	0
LSNLALVKPEK	PDCD5; PDCD5	O14737; K7EQA1	PDCD5_HUM	Unmodified	1681900	1329800	997030	0	0	25199	0	0	0
LSNLMTAK	SGPL1	O95470	SGPL1_HUM	Oxidation (M)	1400200	1315100	1123900	0	41751	28572	0	0	0
LSNPSLVK	BAZ1A; BAZ1A	Q9NRL2; A0A087	BAZ1A_HUM	Unmodified	471730	0	596400	0	0	0	0	0	0
LSNTQGVVSAFSTMMSVHR	ATP5PO; ATP5PO; S	P48047; A0A494C	ATPO_HUMA	2 Oxidation (M)	533230	0	758940	0	0	0	0	0	0
LSNTSPEFQEMSLLER	SACM1L; SACM1L;	Q9NTJ5; A0A5F9	SAC1_HUMA	Oxidation (M)	518050	569000	517520	0	0	0	0	0	0
LSNVNLQEK	NOC2L	Q9Y3T9	NOC2L_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LSPAALHNGLLAR	FBRSL1; FBRSL1; FI	Q9HCM7; A0A3B	FBSL_HUMA	Deamidation (N)	792170	0	631220	0	0	0	0	0	0
LSPADGTRGQEITVR	COL12A1; COL12A1	O99715; D6RGG3	COCA1_HUM	Unmodified	0	0	0	464160	327950	283740	72256	34791	0
LSPDAIPGK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	0	0	1330100	0	0	0	0	0	0
LSPDFAEELR	SCRIB; SCRIB; SCRI	Q14160; H0YCG0	SCRIB_HUM	Unmodified	1423800	2512800	1389200	0	40948	32150	0	0	0
LSPEELLLR	PLS1; LCP1; PLS3; P	Q14651; P13796;	PLSI_HUMA	Unmodified	1402000	1567200	1283000	0	0	0	7231	0	0
LSPELLNTGRFETK	HK2; HK2	P52789; E9PB90	HXK2_HUM	Unmodified	959090	410060	465290	0	0	0	0	0	0
LSPESAEEYIEYLK	XAB2	Q9HCS7	SYF1_HUM	Unmodified	338350	380180	388730	0	0	0	0	0	0
LSPFIENVDKQTLR	CRYBG3	Q68DQ2	CRBG3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
LSPFMADIR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Oxidation (M)	5225400	5040100	4475300	258150	238850	297030	31598	265620	252160
LSPFMADIRDAPQDFHPDRVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Oxidation (M)	0	4467700	1208700	0	33056	29542	269560	89187	140820
LSPGGYFIGTTPNSFELIR	RNMT; RNMT	O43148; K7EP06	MCES_HUM	Unmodified	1564800	1329800	1676400	0	0	0	0	0	0
LSPGGYFIGTTPNSFELIR	RNMT; RNMT	O43148; K7EP06	MCES_HUM	Deamidation (N)	2953800	1850600	1521000	0	0	0	0	0	0
LSPGSGGPEAQTAGPVTPASISGR	PCNT	O95613	PCNT_HUMA	Unmodified	972080	0	889400	58039	86561	86966	0	18398	0
LSPIFRDFLNR	PAK2	Q13177	PAK2_HUMA	Unmodified	428880	340140	365630	0	0	0	0	0	0
LSPISHGNTIALFFR	TCF25	Q9BQ70	TCF25_HUM	Deamidation (N)	187760	199880	0	0	0	0	0	0	0
LSPIYNLVPVK	C9	P02748	CO9_HUMAN	Unmodified	659490	576070	482140	18537	12272	11009	0	0	0
LSPKAEEVATFFAK	TOP1	P11387	TOP1_HUMA	Unmodified	1434400	906380	831430	0	0	15477	0	0	0
LSPLEACAHSFFDELR	GSK3A; GSK3A; GSI	P49840; A0A7I2Y	GSK3A_HUM	Unmodified	855490	0	423050	0	0	0	0	0	0
LSPLGEEMR	APOA1; APOA1	P02647; F8W696	APOA1_HUM	Oxidation (M)	1400200	1560100	1703300	0	0	0	0	0	0
LSPLPSLMVVMPLAQIK	BCAS3; BCAS3	Q9H6U6; K7ESE5	BCAS3_HUM	2 Oxidation (M)	361750	350830	208010	0	0	0	0	0	0
LSPPYSSPQEFAQDVGR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Unmodified	25442000	32011000	25406000	48254	0	0	0	0	0
LSPQAVNSIAK	SRI; SRI	P30626; C9J0K6	SORCN_HUM	Deamidation (N)	1735700	1844700	1386200	0	64896	0	0	0	0
LSPQAVNSIAK	SRI; SRI	P30626; C9J0K6	SORCN_HUM	Unmodified	2238400	1476300	1704900	117630	54893	52190	0	0	0
LSPQAVNSIAKR	SRI; SRI	P30626; C9J0K6	SORCN_HUM	Deamidation (N)	1148500	1540700	718810	71953	110010	190460	0	0	0
LSPQTLTTIVK	GCA; GCA; GCA	P28676; H7C2Z6;	GRAN_HUM	Unmodified	3114900	2801000	2857000	0	0	0	0	0	0
LSPQTLTTIVKR	GCA; GCA; GCA	P28676; H7C2Z6;	GRAN_HUM	Unmodified	1612100	778480	2106800	0	0	0	0	0	0
LSPSPSSR	LMNB1; LMNB2	P20700; Q03252	LMNB1_HUM	Unmodified	25080000	31032000	30102000	4130100	4668800	4355400	174590	364580	306510
LSPSPTSQR	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Unmodified	21899000	19233000	19017000	11174000	8205800	9076900	60968	148180	65033
LSPSTSCPHSHDYLPQER	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10_HUM	Unmodified	1022900	698670	890350	34476	62915	0	0	0	0
LSPTDNLPR	CNP	P09543	CN37_HUMA	Unmodified	1288100	993650	1305200	33352	38696	0	0	0	0
LSPVPVPR	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Unmodified	22795000	23252000	20335000	655170	557620	588060	84832	91734	115870
LSQDEIVLGTK	KLC2; KLC2; KLC2;	Q9H0B6; E9PI24;	KLC2_HUMA	Unmodified	1620900	1456500	1593900	0	0	0	0	0	0
LSQELEK	CCDC88C	Q9P219	DAPLE_HUM	Unmodified	901700	0	0	0	0	0	0	0	0
LSQELEYLTEDVKR	TPR	P12270	TPR_HUMAN	Unmodified	2240000	1718300	1578200	0	16791	0	0	0	0
LSQETEALGR	NUCB1	Q02818	NUCB1_HUM	Unmodified	14694000	18090000	14999000	967550	351560	991970	0	0	0
LSQLEEHLSQLQDNPPQEK	NUMA1; NUMA1; N	Q14980; F5H6Y5	NUMA1_HUM	Unmodified	1204900	1732000	1196600	0	0	0	0	0	0
LSQLEGVNVER	VPS35	Q96QK1	VPS35_HUM	Unmodified	1708500	3075800	2468100	0	0	0	0	0	0
LSQLENLQK	DMAC2L; DMAC2L;	Q99766; A0A5K1	ATP5S_HUM	Unmodified	2853800	2764600	2956800	229840	224180	228370	0	0	0
LSQNNFALGYK	VDAC3	Q9Y277	VDAC3_HUM	Deamidation (N)	3735400	4302000	4128900	125220	140860	88712	0	0	16393
LSQNNFALGYK	VDAC3	Q9Y277	VDAC3_HUM	2 Deamidation (N)	663990	810380	664730	18057	0	0	0	0	0
LSQSDEDVIR	WDR26; WDR26; WI	Q9H7D7; H0Y917	WDR26_HUM	Unmodified	1085900	824880	874200	32781	0	0	0	0	0
LSQVDPEMAAK	TRIT1; TRIT1; TRIT	Q9H3H1; S4R3U8	MOD5_HUM	Oxidation (M)	950110	0	759690	0	0	0	0	0	0
LSQVLRDLEDESTPIVK	ATP13A1	Q9HD20	AT131_HUM	Unmodified	540120	807420	777210	0	0	0	0	0	0
LSQVPMSALK	NUFIP2	Q7Z417	NUFP2_HUM	Oxidation (M)	1383300	0	1436900	0	231980	0	0	0	0
LSQVSDSVSGQTVVDPK	PRPF6	O94906	PRP6_HUMA	Unmodified	1848900	2371100	1368100	130350	0	141180	0	0	0
LSQYQEPLHLPGVR	PCCA	P05165	PCCA_HUMA	Unmodified	1729200	2112800	2517900	150530	117910	138340	0	0	0
LSRQEAVALLQGQR	CRK; CRK	P46108; I3L297	CRK_HUMAN	Unmodified	630370	596770	911650	0	0	0	0	0	0
LSSAMSAAK	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC_HUM	Oxidation (M)	501410	750290	533300	0	0	0	0	0	0
LSSAVVFGGGEAR	NBN; NBN	O60934; A0A0C4	NBN_HUMAN	Unmodified	1167200	1017700	726840	0	0	0	0	0	0
LSSDCEDQIR	GLG1	Q92896	GSLG1_HUM	Unmodified	577050	502090	515020	69062	67159	55033	0	0	0
LSSDQNDKAASAAREELKEAR	LMNB2	Q03252	LMNB2_HUM	Deamidation (N)	1009500	780670	0	0	0	49768	0	0	0
LSSDVLTLLIK	LONP1; LONP1; LO	P36776; K7EJE8;	LONM_HUM	Unmodified	861700	353200	703600	0	0	13502	12686	0	17194
LSSEMNTSTVNSAR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	Oxidation (M);Deai	1192600	1551400	1764900	0	0	0	0	0	0
LSSEMNTSTVNSAR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	Oxidation (M);2 De	1257800	1356300	1618200	0	0	59162	0	0	0
LSSEMNTSTVNSAREELMESR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	2 Oxidation (M)	3104300	3618500	3631500	0	0	0	0	0	0
LSSEMNTSTVNSAREELMESR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	2 Oxidation (M);De	8348900	8502200	6682400	0	0	0	0	0	0
LSSEMNTSTVNSAREELMESR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	2 Oxidation (M);2 I	8676700	6878600	9117500	318260	98066	0	0	0	0
LSSEQFHEAASK	CHCHD6; CHCHD6;	Q9BRQ6; H0Y922	MIC25_HUM	Unmodified	1962800	0	2156400	0	0	0	0	0	5166.1
LSSETYSQAK	NSUN2	Q08J23	NSUN2_HUM	Unmodified	0	0	827300	0	0	0	0	0	0
LSSEVEALR	DSP	P15924	DESP_HUMA	Unmodified	1642200	1503900	3499200	35102	38632	33042	0	0	0
LSSEVEALRR	DSP	P15924	DESP_HUMA	Unmodified	1525400	1421200	1544500	42232	31390	0	0	0	0
LSSEVEDPPPYLMMDELLGR	CDK5RAP1	Q96SZ6	CK5P1_HUM	2 Oxidation (M)	441190	466730	428210	0	0	0	0	0	0
LSSGLVTAALYGR	BTD	P43251	BTD_HUMAN	Unmodified	467340	533810	695830	0	0	44196	0	0	0
LSSGPEQITLEASSTEGHPGAPSPQHTDQTEAFQK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1_HUM	Unmodified	7845500	8787800	6172500	234530	316710	0	0	97084	0
LSSLFPFALLQR	MTMR12	Q9C0I1	MTMRC_HUM	Unmodified	81147	56404	93696	0	0	0	0	0	0
LSSLIILMPHHVEPLER	SERPINH1; SERPIN	P50454; E9PR70;	SERPH_HUM	Oxidation (M)	926800	1395900	1711900	0	0	0	0	0	0
LSSLPFQK	NUTF2; NUTF2	P61970; H3BRV9	NTF2_HUMA	Unmodified	9428600	8403400	8192200	49168	0	62028	0	0	0
LSSLQLELSKLDK	VARS2; VARS2; VA	Q5ST30; A0A0G2	SYVM_HUM	Unmodified	268960	325630	382760	0	0	0	0	0	0
LSSLSDPVSERR	SORBS1; SORBS1	Q9BX66; S4R303	SRBS1_HUM	Unmodified	487800	0	548750	116690	113260	152160	270910	223130	193910
LSSPCIMVVNHDASSIPR	NSUN2	Q08J23	NSUN2_HUM	Oxidation (M)	887300	873760	404350	61471	0	0	0	0	0
LSSPCIMVVNHDASSIPR	NSUN2	Q08J23	NSUN2_HUM	Oxidation (M);Deai	1275100	912120	1377600	0	0	0	0	0	0
LSSPERDVERDVFLYR	COPE; COPE; COPE	O14579; M0R061	COPE_HUMA	Unmodified	4322400	3399100	4255100	0	0	0	0	0	0
LSSPVLHR	DBN1; DBN1; DBN1	Q16643; D6RCR4	DREB_HUM	Unmodified	1514500	1546800	1909500	0	31739	24787	0	0	0
LSSQEAASSFGDDRLLIEK	PCCA; PCCA; PCCA	P05165; A0A1B0	PCCA_HUMA	Unmodified	1421600	1059100	0	32432	0	0	0	0	0
LSSQISAGEEK	MTDH; MTDH; MTD	Q86UE4; E5RJU9	LYRIC_HUM	Unmodified	0	496870	570440	24801	30671	0	0	0	0
LSSQISAGEEKWNSVSPASAGK	MTDH; MTDH; MTD	Q86UE4; E5RJU9	LYRIC_HUM	Deamidation (N)	816480	627760	851560	53994	70354	0	0	0	0
LSSQISAGEEKWNSVSPASAGKR	MTDH; MTDH; MTD	Q86UE4; E5RJU9	LYRIC_HUM	Deamidation (N)	1753700	1402600	1414200	133660	143090	0	53343	0	36752
LSSSAEFTGMTR	LARS2; LARS2; LAR	Q15031; A0A494	SYLM_HUM	Oxidation (M)	1007000	527270	368450	0	0	0	0	0	0
LSSSFSSR	BAZ1A	Q9NRL2	BAZ1A_HUM	Unmodified	0	22931000	17518000	1621200	6081800	1357400	3532200	0	4156000
LSSWDQAETPGHTPSLR	SF3B1	O75533	SF3B1_HUM	Unmodified	0	1202500	1204100	81218	51401	48339	0	0	0
LSTDHIPILYR	GFPT1; GFPT1; GFP	Q06210; A0A618P	GFPT1_HUM	Unmodified	1455200	1182900	1184700	90656	103200	89290	0	0	0
LSTGVFRPQLDEPIPLYEAK	CRYZL1; CRYZL1	O95825; A6NMA	QORL1_HUM	Unmodified	707270	490600	705380	0	0	0	0	0	0
LSTMETGTGLIR	TPP2; TPP2; TPP2; T	P29144; A0A494C	TPP2_HUMA	Oxidation (M)	1613500	2272400	0	59848	60459	110110	0	0	0
LSTQSNSNNIEPAR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC_HUM	2 Deamidation (N)	13069000	10669000	0	0	0	0	0	0	0
LSVAAQEAAR	PLEC	Q15149	PLEC_HUMA	Unmodified	5594100	4875800	4303900	889730	845940	864770	0	17621	18785
LSVASTPISQR	NUSAP1; NUSAP1	Q9BXS6; H0YME	NUSAP_HUM	Unmodified	841030	1047300	787740	0	0	0	0	0	0
LSVDYGKK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	36036000	26844000	30826000	0	1308300	0	58459	0	56299
LSVEGFAVDKMAGEVK	NPEPPS; NPEPPS; N	P55786; E9PLK3;	PSA_HUMAN	Oxidation (M)	847300	1014400	1581300	0	0	0	0	0	0
LSVEIWDWDR	PRKCA; PRKCA	P17252; J3KRN5	KPCA_HUM	Unmodified	1072700	3209100	4155900	0	0	0	0	0	0
LSVISVEDPPQR	ETFB	P38117	ETFB_HUMA	Unmodified	7676000	7879700	7835300	225560	204610	176250	0	0	0
LSVLGAITSVQQR	ETF1; ETF1; ETF1; E	P62495; B7Z7P8;	ERF1_HUMA	Unmodified	438860	465280	0	0	0	0	0	0	0
LSVPPLVEVMR	BCAM; BCAM; BCA	P50895; A0A087X	BCAM_HUM	Oxidation (M)	10546000	11769000	10361000	447090	472800	460340	0	0	20554
LSVPPLVEVMRGK	BCAM; BCAM; BCA	P50895; A0A087X	BCAM_HUM	Oxidation (M)	751610	0	632740	420170	234460	226210	0	0	0
LSVPTSDEEDEVPAPKPR	ABCF1; ABCF1; ABC	Q8NE71; A0A0G	ABCF1_HUM	Unmodified	969310	900970	1087300	0	0	0	0	0	0
LSVQSNPSPQLR	ZC3H11A; ZC3H11A	O75152; E9PBY7;	ZC11A_HUM	Unmodified	949540	802290	877330	0	0	35132	0	0	0
LSVSGRDENSVELTMAEGPYK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Oxidation (M);Deai	44953000	43284000	46200000	0	24910	0	0	23309	29038
LSWSQLGGSPAEPIPGR	BCAM; BCAM	P50895; A0A087X	BCAM_HUM	Unmodified	959610	1710900	992820	36602	57718	31433	0	0	0
LSYCGGGEALAVPFEPAR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082_HUM	Unmodified	1570900	1332300	1216400	37556	35578	26090	0	0	0
LSYNTASNK	RPL34	P49207	RL34_HUMA	Unmodified	1348400	1311300	1431800	54949	81349	55763	0	0	0

LSYPTFFPR	HLTF; HLTF	Q14527; A0A0C4	HLTF	HUMA	Unmodified	1552200	0	0	14545	29608	19894	0	8433.5	0
LSYQNDPPFGSYVVPITVR	DSC2; DSC2	Q02487; A0A3B3	DSC2	HUMA	Unmodified	2668000	4030900	0	0	54356	58377	0	16871	28109
LSYTQLLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	1618700	1451100	1478700	361430	393440	304010	0	19442	0
LTAALVLR	RPS6KA3; RPS6KA3	P51812; B7ZB17;	KS6A3	HUM	Unmodified	343060	379880	519810	0	0	0	0	0	0
LTAAVLLAK	PGM2L1	Q6PCE3	PGM2L	HUM	Unmodified	273470	0	275320	0	0	0	0	0	0
LTADLSAETLQAR	L1RE1	Q9UN81	LORF1	HUM	Unmodified	1097800	1030700	954000	50412	0	0	0	0	0
LTAELIEQAAQYTNAVR	SNRPA1; SNRPA1	P09661; H0YKK0	RU2A	HUMA	Deamidation (N)	0	416770	445890	0	0	0	0	0	0
LTAGEACAQGLVTEVFPDSTFQK	ECI2; ECI2	O75521; A0A0C4	ECI2	HUMA	Unmodified	0	0	0	0	0	0	0	74001	29754
LTAGLGSLIPEGDAGPDAAGPDAAGPLLPGRPQVK	CPD	O75976	CBPD	HUMA	Unmodified	3922400	4981600	1420600	0	0	0	0	0	0
LTAIDILTTCAADIQR	SNRNP200	O75643	U520	HUMA	Unmodified	1745000	983510	2123600	0	0	0	0	0	0
LTAPEDVFSKLQR	NUP205; NUP205	Q92621; U3KPX2	NU205	HUM	Unmodified	408650	436300	501230	0	0	0	0	0	0
LTAQFVAR	SF3A1	Q15459	SF3A1	HUM	Unmodified	1705200	1727400	1543500	0	0	0	0	0	0
LTAQVEELSK	NUMA1; NUMA1; N	H0YFY6; K4DIE0	H0YFY6	HUM	Unmodified	1674500	2344900	2026800	52420	41482	52657	0	0	0
LTASEQAHPQEPAESAHEPR	AKAP12	Q02952	AKA12	HUM	Unmodified	0	0	0	147180	277380	132080	0	0	0
LTATPTPLGGMTGFHMQTEDR	SF3B1	O75533	SF3B1	HUM	2 Oxidation (M)	2575900	2627000	3007000	49035	50530	53009	0	0	0
LTDAFLLLR	STX16; STX16; STX	O14662; Q96NX8	STX16	HUM	Unmodified	446930	204210	456340	18052	13420	0	0	0	0
LTDAQILTR	RFC2; RFC2; RFC2	P35250; A0A087	RFC2	HUM	Unmodified	1286100	1880100	1776000	0	0	0	0	0	0
LTDCVVMR	HNRNPA2B1; HNRN	P22626; Q32P51;	ROA2	HUM	Oxidation (M)	1476300	1444500	1154500	0	0	0	0	0	0
LTDCVVMRDPASKR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUM	Oxidation (M)	15011000	11909000	14022000	515840	0	377630	0	0	0
LTDEEVEMTR	PMPCA	Q10713	MPPA	HUM	Oxidation (M)	7939600	8090000	6370400	350870	351690	382370	0	0	0
LTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQK	VCL	P18206	VINC	HUM	Unmodified	3213100	2348100	2460900	0	0	0	0	0	0
LTDEQVALVR	BOP1; BOP1	Q14137; A0A075	BOP1	HUM	Unmodified	3365100	4048800	3015800	85377	89444	87787	0	0	0
LTDEQVALVRR	BOP1; BOP1	Q14137; A0A075	BOP1	HUM	Unmodified	1134800	1097500	1062600	0	0	0	0	0	0
LTDFGLSK	MAST4; MAST1; RP	O15021; Q9Y2H9	MAST4	HUM	Unmodified	1393400	0	1614200	10815	0	12017	0	0	0
LTDFNFLMVLGK	PRKCB; PRKCA	P05771; P17252	KPCB	HUM	Oxidation (M)	0	304730	489850	0	0	0	0	0	0
LTDKNLGFQMLQK	SUGP2; SUGP2	Q8IX01; M0R2Z9	SUGP2	HUM	Oxidation (M)	401420	326820	446950	13464	28215	22091	0	0	0
LTDLQVIKNETDAR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	852820	1386300	829590	0	0	0	0	0	0
LTDQVMQNPR	NAP1L4; NAP1L4; N	O99733; C9J6D1;	NP1L4	HUM	Oxidation (M)	2137600	1924900	1897100	0	0	0	0	0	0
LTDRWQNAVQGVR	SYNE2; SYNE2; SY	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	397820	535820	305900	0	0	0	0	0	0
LTDRWQNAVQGVR	SYNE2; SYNE2; SY	Q8WXH0; G3V4T	SYNE2	HUM	Deamidation (N)	712620	615130	511820	0	0	0	0	0	0
LTDTLVSK	KTN1	Q86UP2	KTN1	HUMA	Unmodified	1620800	2066800	1784500	0	0	0	0	0	0
LTDTLVSKQQLEQR	KTN1	Q86UP2	KTN1	HUMA	Unmodified	596350	452430	628750	0	0	20480	0	0	0
LTDYISK	ARL6IP5	O75915	PRAF3	HUM	Unmodified	0	1264500	1076600	267180	224730	333810	0	0	0
LTEADYLSSHLTEGPHR	NUDT16L1; NUDT1	Q9BRJ7; K7ENA	TIRR	HUMA	Unmodified	1143000	652580	435730	0	0	0	0	0	0
LTEDEEGNAKLQQR	PDHX; PDHX	O00330; H0YD97	ODPX	HUM	Deamidation (N)	466930	599960	744770	0	0	0	0	0	0
LTEDKADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Unmodified	5230200	5254800	5716000	53306	0	0	0	0	0
LTEDLEYHELLDR	OSBP; OSBP	P22059; H0YCV6	OSBP1	HUM	Unmodified	3478300	2433900	3311900	0	0	16941	0	0	17945
LTEDPEKQTLPGSK	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB	HUMA	Unmodified	759680	1149300	0	0	0	0	0	0	0
LTEELKEQMK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	3287100	3149900	3320900	51641	0	0	0	0	0
LTEEQAR	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1	HUMA	Unmodified	1507500	87339	1299600	370940	107710	0	0	0	0
LTEGCSFR	RPS27L; RPS27; RPS	Q71UM5; P42677	RS27L	HUM	Unmodified	2046100	2303100	2385600	462020	425530	475480	30678	31680	0
LTEHQVAEPPEDWPALIWQQQR	EDC4	Q6P2E9	EDC4	HUMA	Unmodified	0	756820	745730	0	0	0	0	0	0
LTELETAVR	DCTN2; DCTN2; DC	Q13561; A8K8J9;	DCTN2	HUM	Unmodified	8182700	2046900	2717000	153720	0	103670	0	0	0
LTELLLR	FDXR; ANKRD18B;	P22570; A2A2Z9;	ADRO	HUM	Unmodified	1382200	1431200	2579400	0	10715	0	0	0	0
LTELLVK	SGPL1; SGPL1; SGP	O95470; H7BXL7	SGPL1	HUM	Unmodified	2202800	1623200	2021900	33293	36950	41199	0	0	0
LTELSMQDEELMKR	TIMM10	P62072	TIM10	HUM	2 Oxidation (M)	3141600	3609300	3274300	0	221520	0	0	0	0
LTEMETLQSQLMAEK	MYH9	P35579	MYH9	HUM	2 Oxidation (M)	3551600	3260000	4003800	33752	31818	32523	0	0	32675
LTEPMVR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Oxidation (M)	2112800	754670	1884200	0	24737	0	0	0	0
LTEQLAGPLR	MTREX	P42285	MTREX	HUM	Unmodified	1387500	1352200	1641600	59075	88606	40369	37712	0	0
LTESINR	MCM3; MCM3; MC	P25205; A0A499	MCM3	HUM	Unmodified	1077900	1470000	1171700	115320	0	0	0	0	0
LTESPCALVASQYGWSGNMER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL	HUM	Oxidation (M)	5930000	8069700	6251500	44466	40317	28362	0	0	0
LTESPCALVASQYGWSGNMER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL	HUM	Oxidation (M);Deam	4095300	3136000	4173000	24913	0	0	0	0	0
LTESVDVLMPNVGEIVGGSMR	NARS1	O43776	SYNC	HUM	2 Oxidation (M)	2940700	3754800	1624500	0	0	0	0	0	0
LTETKDGSGLEEK	NASP	P49321	NASP	HUM	Unmodified	0	790420	0	0	0	0	0	0	0
LTETKDGSGLEEKVR	NASP	P49321	NASP	HUM	Unmodified	1282300	1391900	1654400	0	46033	23819	0	0	0
LTEVPVEPVLTVHPESK	PNN	Q9H307	PINN	HUM	Unmodified	6218300	5158300	6624900	276230	252580	248280	0	34253	21875
LTEVQDDKEEEEEENPLLVPLEEK	FTSJ3	Q8IY81	SPB1	HUM	Unmodified	1885900	1377300	2694400	0	0	0	0	0	0
LTFASTLSHLR	POLR2B; POLR2B; P	P30876; C9J2Y9;	RPB2	HUM	Unmodified	671140	537240	1126400	0	0	0	0	0	0
LTFDTTFSPNTGK	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2	HUM	Unmodified	1457300	1858500	1178200	73588	54666	75818	0	0	0
LTFDTTFSPNTGKK	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2	HUM	Unmodified	3560400	3149500	3613200	157330	187870	137320	0	0	0
LTFEATGPSHMSFYVR	ERMP1	Q7Z2K6	ERMP1	HUM	Oxidation (M)	880070	729270	1165200	0	0	0	0	0	0
LTFPEQSVPGALQFR	OAS3; OAS3; OAS3;	Q9Y6K5; A0A7P0	OAS3	HUM	Unmodified	5009500	0	0	19132	0	0	0	0	0
LTFPGGLLIGCSPGFMNVPK	ETFDH	Q16134	ETFD	HUM	Oxidation (M)	0	203040	324610	0	0	0	0	0	0
LTFQAGDPYYISKR	DNMT3A; DNMT3A	Q9Y6K1; F8WE91	DNM3A	HUM	Unmodified	1109200	2179200	0	0	21373	0	0	0	0
LTFSGLLNALDGVASTEAR	BCS1L; BCS1L; BCS	Q9Y276; H7C492	BCS1	HUM	Unmodified	166550	63456	134650	0	0	0	0	0	0
LTGEDVFGITVPLITSTTGAK	YARS2; YARS2	Q9YZZ4; H0YHS0	SYYM	HUM	Unmodified	330930	152480	290050	0	0	0	0	0	0
LTGFHETSNINDFSAGVANR	GLUL; GLUL	P15104; A0A2R8	GLNA	HUM	Deamidation (N)	1838600	1776800	933900	172510	114780	85744	0	0	0
LTGFHETSNINDFSAGVANR	GLUL; GLUL	P15104; A0A2R8	GLNA	HUM	Unmodified	2264900	2108900	0	157130	120990	118680	0	0	0
LTGIAQPK	TGIF2LX	Q8IUE1	TF2LX	HUM	Unmodified	1769100	1562100	1554600	0	0	31118	0	0	0
LTGKDVNFEFPEFQL	RPS7	P62081	RS7	HUMA	Unmodified	4683000	3067500	3212900	0	0	0	0	0	0
LTGKDVNFEFPEFQL	RPS7	P62081	RS7	HUMA	Deamidation (N)	1166300	933640	913630	0	0	0	0	0	0
LTGMAFR	GAPDHS; GAPDH; C	O14556; P04406;	G3PT	HUMA	Oxidation (M)	112750000	114070000	119450000	401990	315880	361820	0	0	46504
LTGPAAAEPR	ABHD12; ABHD12	Q8N2K0; I3L380	ABD12	HUM	Unmodified	8221300	8593500	8593400	711590	910620	769150	41972	45637	0
LTGQLFLGGSIVK	SELENBP1	Q13228	SBP1	HUMA	Unmodified	958250	691030	878680	73924	64058	30040	18938	0	0
LTGTIQNDILKEFMVR	MMUT	P22033	MUTA	HUM	Oxidation (M)	1050000	0	0	0	0	0	0	0	0
LTGVFAPR	RPS4Y2; RPS4X; RP	Q8TD47; P62701;	RS4Y2	HUM	Unmodified	575480	544590	573640	0	0	0	0	0	0
LTGVPAALDLITSGRR	EHHADH	Q08426	ECHP	HUM	Unmodified	1092300	675120	1518300	0	0	0	0	0	0
LTGVSISQVNHKPLR	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1	HUM	Deamidation (N)	1165200	949910	1359800	0	0	0	0	0	0
LTHKMEANKENR	STMN1	P16949	STMN1	HUM	Oxidation (M)	1235300	1051300	1435900	0	0	0	0	0	0
LTHKMEANKENR	STMN1	P16949	STMN1	HUM	Oxidation (M);Deam	0	47243	50836	0	0	0	0	0	0
LTHLHEGLPVK	PLOD2; PLOD2	O00469; E7ETU9	PLOD2	HUM	Unmodified	870460	707630	627310	0	0	0	0	0	0
LTHRLLCKHMTLDSFDAMFR	CYFIP2; CYFIP2; CY	Q96F07; H7C229;	CYFP2	HUM	2 Oxidation (M);2 I	0	0	0	0	0	0	0	18067	0
LTHVDSPLEAPAGPLGQVK	ESYT1	Q9BSJ8	ESYT1	HUM	Unmodified	1656300	1782800	1493500	50024	58165	47938	0	0	0
LTHYHEGLPTTR	PLOD1	Q02809	PLOD1	HUM	Unmodified	2298300	0	1260500	31074	0	51649	0	0	0
LTIAEER	RPS4Y2; RPS4X	Q8TD47; P62701	RS4Y2	HUM	Unmodified	27228000	31467000	23430000	952360	911440	876690	0	0	0
LTIAEERDKR	RPS4Y2; RPS4X	Q8TD47; P62701	RS4Y2	HUM	Unmodified	760380	7829700	8953600	22744	33822	0	0	0	0
LTIFDEEVDPDEGLFGPGR	HS1BP3; HS1BP3; H	Q53T59; H7C0Y9	H1BP3	HUM	Unmodified	480320	0	0	0	0	0	0	0	0
LTIHAPPQELGPPVQR	TPR	P12270	TPR	HUMA	Unmodified	6153400	5437000	6793100	256080	244210	181940	23208	0	23226
LTIHGDLYYEGKEFETR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2	HUM	Unmodified	990820	1112900	1086500	0	0	0	0	0	0
LTKDFSALESQLQDTQELLQEENRQK	MYH9	P35579	MYH9	HUM	Unmodified	0	2738000	3867000	0	0	0	0	0	0
LTKEDEQQQALQDIASR	LIG3; LIG3; LIG3	P49916; K7ERZ5;	DNLI3	HUM	Unmodified	4050100	626410	1348700	0	0	0	0	0	0
LTKNMSGSLYEMVSR	SSRP1	Q08945	SSRP1	HUM	2 Oxidation (M);De	1909600	1705300	1568200	0	0	0	0	0	0
LTLADIER	SLC25A12	O75746	CMC1	HUM	Unmodified	1362500	1057800	1295200	16778	0	0	0	0	0
LTLAELNQILYR	AGL	P35573	GDE	HUMA	Unmodified	56779	40466	50799	0	0	0	0	0	0
LTLDDIER	UBL4A; UBL4A	P11441; Q5HY81	UBL4A	HUM	Unmodified	0	0	672230	0	0	0	0	0	0
LTLDDIERLASR	UBL4A	P11441	UBL4A	HUM	Unmodified	275590	332930	332330	0	0	0	0	0	0
LTLDKLDVK	PGK1	P00558	PGK1	HUM	Unmodified	3951700	4558000	4398800	42625	0	0	0	0	0
LTLEDLEDSWDR	PRPF8; PRPF8	Q6P2Q9; I3L3Z8	PRP8	HUM	Unmodified	495730	538220	587270	0	0	0	0	0	0
LTLFVNGQPRPLESSQVK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG	HUMA	Deamidation (N)	2250600	1744600	1805200	0	0	0	0	0	0
LTLHGLQQYYVK	DDX39B; DDX39A; I	Q13838; O00148;	DX39B	HUM	Unmodified	11162000	11505000	14050000	0	0	0	0	0	8529.4
LTLIDPETLLPR	CAND1; CAND1	Q86VP6; A0A0C4	CAND1	HUM	Unmodified	1157700	1358200	1044200	0	0	0	0	0	0
LTLISEDIK	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUMA	Unmodified	587660	649690	776410	0	0	0	0	0	0
LTLLAPLNSVFK	TGFBI; TGFBI; TGFI	O15582; H0Y8L3;	BGH3	HUM	Unmodified	162730	125860	154060	0	0	0	0	0	0
LTLLQLK	PLBD2	Q8NHP8	PLBL2	HUM	Unmodified	1957700	1507400	358230	0	0	0	0	0	0
LTLLQLKGLEDSYEGR	PLBD2	Q8NHP8	PLBL2	HUM	Unmodified	915580	0	608120	0	0	0	0	0	0
LTLLQVASR	KIF4A	O95239	KIF4A	HUM	Unmodified	867520	656600	841070	0	0	0	0	0	0
LTLPHSIR	RSL1D1; RSL1D1; R	O76021; J3QSV6;	RL1D1	HUM	Unmodified	926950	789500	785710	0	0	0	0	0	0
LTLSALIDGKNFSAGGHK	VDAC3	Q9Y277	VDAC3	HUM	Unmodified	608880	278600	439030	0	0	0	0	0	0
LTLSALLDGK	VDAC1	P21796	VDAC1	HUM	Unmodified	0	557790	436240	113800	43346	56533	39439	73608	52259
LTLSALVDGK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2	HUM	Unmodified	20246000	19943000	18536000	77897	59406	52274	0	82456	0
LTLSALVDGKSINAGGHK	VDAC2	P45880	VDAC2	HUM	Deamidation (N)	0	562440	550250	0	0	0	0	0	0
LTLSCEEFVK	ETHE1; ETHE1	O95571; M0QXB	ETHE1	HUM	Unmodified	0	987620	1135900	0	68066	78669	17380	0	0
LTLSQFQK	NUP93; NUP93	Q8N1F7; H3BVG	NUP93	HUM	Unmodified	1950400	0	1472600	72901	67975	42920	0	0	0
LTLTALDGGSPPR	PCDHB8; PCDHB2;	Q9UN66; Q9Y5E7	PCDB8	HUM	Unmodified	0	0	0	0	69945	49960	0	0	0
LTLTFNR	ATP5F1C	P36542	ATPG	HUM	Unmodified	1568600	1505100	1957800	78551	21548	69936	0	0	0
LTLTILR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Unmodified	3037900	3459600	3452300	35625	15619	16684	0	0	0
LTLYDIAHTPGVAADLSHIETK	MDH2	P40926	MDHM	HUM	Unmodified	18865000	12337000	21225000	0	0	0	0	0	0
LTMQITALNENLGTVK	EEA1	Q15075	EEA1	HUMA	Methyl (KR)	151760	150940	0	0	0	0	0	0	0
LTMQVSSLQR	DEK; DEK; DEK; DE	P35659; A0A494	DEK	HUMA	Oxidation (M)	9296100	9941500	8372400	43297	0	44730	0	0	0
LTMQVSSLQREPFTIAQGK	DEK; DEK; DEK; DE	P35659; A0A494	DEK	HUMA	Oxidation (M)	8466100	9385100	10082000	86558	0	76263	0	0	0
LTNLDPVKGGTIMICPSK	N/A	N/A	N/A		Oxidation (M)	0	3412700	3528200	0	105020	56003	0	0	0
LTNSMMMHGRNNGK	RPS5; RPS5; RPS5	P46782; M0R0R2	RS5	HUMAN	3 Oxidation (M);M	0	0	0	0	0	0	0	0	0
LTNVAVVR	SBDS; SBDS; SBDS	Q9Y3A5; A0A087	SBDS	HUM	Unmodified	1470500	1398000	1192800	200780	206560	0	0	23985	0
LTPEDFAR	VTA1; VTA1; VTA1	Q9NP79; Q5TGM	VTA1	HUM	Unmodified	10933000	11171000	12046000	416330	511720	574550	0	0	47627
LTPEEEEILNKKR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMA	Unmodified	1543400	1938600	3618000	134690	107890	132430	0	0	0
LTPEELER	UTS2; UTS2	O95399; Q5H8X8	UTS2	HUM	Unmodified	31504000	27880000	34155000	1444900	1346700	1134700	0	0	0
LTPEFSQR	LANCL1; LANCL1; I	O43813; E9PHS0;	LANC1	HUM	Unmodified	7204000	6634100	6710300	0	0	56831	0	0	0
LTPEQLHSMR	COA3; COA3	Q9Y2R0; K7EPV(	COA3	HUM	Oxidation (M)	587410	1620200	541380	0	0	0	0	0	0
LTPEYLQLMK	ERLIN2; ERLIN2	O94905; E5RHW4	ERLN2	HUM	Oxidation (M)	2705300	1763200	2556500	86937	111660	98921	0	0	0
LTPFMLGALVAMYEHK	GPI; GPI	P06744; A0A2U3	G6PI	HUMA	2 Oxidation (M)	1596400	1921600	2118100	0	0	0	0	0	0
LTPIDRVFTR	MSH6; MSH6; MSH	P52701; A0A494	MSH6	HUM	Unmodified	2672300	3578600	2493200	0	0	0	0	0	0
LTPITYPQGLAMAK	RAC1	P63000	RAC1	HUMA	Oxidation (M)	2309300	2297900	2036600	93022	97276	68581	0	0	0

LTPLILKPFGNSISR	LBR; LBR; LBR	Q14739; A0A4944	LBR	HUMAN	Deamidation (N)	7332800	9451100	8682300	15379	0	0	0	0	0
LTPLLSVR	SRRT; SRRT	Q9BXP5; H7C3A	SRRT	HUMA	Unmodified	9541400	7932600	10394000	155850	253210	226660	0	0	0
LTPLSHEVISR	EIF2S3; EIF2S3B; EI	P41091; Q2VIR3;	IF2G	HUMA	Unmodified	4828300	3622500	3195200	0	0	0	0	0	0
LTPRPTAAELEEVLQVNSLIQTQK	ESYT1	Q9BSJ8	ESYT1	HUM	Unmodified	1533800	425240	1137900	0	0	0	0	0	0
LTPSGYEWGR	PRPF8	Q6P2Q9	PRP8	HUMA	Unmodified	1009200	875440	928360	0	0	0	0	0	0
LTPTELK	PAPSS1	O43252	PAPS1	HUM	Unmodified	574760	605250	519880	0	0	0	0	0	0
LTPTMMLYAGR	BCKDK; BCKDK; BC	O14874; H3BTL2	BCKD	HUM	/ 2 Oxidation (M)	4263700	1609000	3022500	283480	286530	289120	0	0	0
LTPTSVLDYFGTGSVQR	RFC1; RFC1	P35251; A0A1W2	RFC1	HUMA	Unmodified	1139700	993210	814830	0	0	0	0	0	0
LTPVPDSFFAK	PRPF6	O94906	PRP6	HUMA	Unmodified	3449000	2746600	2806900	0	187300	200510	0	0	0
LTPYEVDELR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	2472500	2870300	2488100	197070	168740	158100	0	0	0
LTPYEVDELRR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	27010000	23196000	20755000	1403600	1401300	1718200	198680	148590	103680
LTQAEISEQPTMATVVPQVPTSPK	RAPH1; RAPH1	Q70E73; C9K0J5	RAPH1	HUM	Oxidation (M)	1083400	1160800	980430	0	0	0	0	0	0
LTQDAVAK	RTRAF; RTRAF; RTI	Q9Y224; G3V4C6	RTRAF	HUM	Unmodified	4428000	3251300	3258800	22768	109420	0	0	0	0
LTQDQDVDVK	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA	HUMA	Unmodified	0	1477100	985830	0	0	0	0	0	0
LTQDSRMESPIPILPLPTPDAETEKLIR	SEPTIN5; SEPTIN5; I	Q99719; C9JM82;	SEPT5	HUM	Oxidation (M)	0	1116000	693780	0	0	0	0	0	0
LTQEPESIR	CLTB; CLTB	P09497; H0Y9Q6	CLCB	HUMA	Unmodified	1183300	1143300	1244600	76526	0	0	0	0	0
LTQLELINK	SYNE1; SYNE2; SYN	Q8NF91; Q8WXH	SYNE1	HUM	Unmodified	1857000	2291400	2135300	0	0	0	0	0	0
LTQLELINKQYR	SYNE1; SYNE2; SYN	Q8NF91; Q8WXH	SYNE1	HUM	Unmodified	980890	907330	1390300	0	0	0	0	0	0
LTQQLEEER	SHTN1	A0MZ66	SHOT1	HUM	Unmodified	1647500	1672000	2311500	0	83216	0	0	0	0
LTQYIDGQGRPR	CAMK2G; CAMK2B	Q13555; Q13554;	KCC2G	HUM	Unmodified	2361700	2287700	3048900	45192	53559	37773	14253	10911	0
LTQYMDGSGMPK	CAMK2D; CAMK2D	Q13557; E9PF82;	KCC2D	HUM	2 Oxidation (M)	691130	628430	740380	97389	142170	149920	0	0	0
LTRDETNYGIPQR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1	HUM	Unmodified	2839900	5472000	2881600	0	0	0	0	0	0
LTRDETNYGIPQR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1	HUM	Deamidation (N)	4320100	5575200	4419000	73273	92161	91653	0	0	0
LTRNNFAVGYR	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2	HUM	Deamidation (N)	2655800	2145700	2302900	144390	0	170320	0	0	0
LTRNNFAVGYR	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2	HUM	2 Deamidation (N)	2898200	2608700	3522400	125890	93012	183460	0	0	19895
LTRPGSSYFNLNPFEVLQIDPEVTDEEIKKR	DNAJC8	O75937	DNJC8	HUM	Unmodified	654050	375890	611210	0	0	0	0	0	0
LTSAVSSLPELLEK	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1	HUM	Unmodified	0	704910	905740	0	0	0	0	0	0
LTSEIQSRENKCMAMYK	NAA25	Q14CX7	NAA25	HUM	2 Oxidation (M)	0	4204500	3213800	0	0	361710	0	0	0
LTSEPQPQR	RAB14	P61106	RAB14	HUM	Unmodified	7233700	8717800	7818900	4192900	3625900	0	0	1057200	636580
LTSFIGAIAIGDLVK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUMA	Unmodified	1947900	382270	1191500	0	0	0	0	0	0
LTSFIGAIAIGDLVKSTLGPK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUMA	Unmodified	118540	0	102780	0	0	0	0	0	0
LTSLVPFVDAFQLER	EIF3A	Q14152	EIF3A	HUMA	Unmodified	2502700	1851700	3530200	0	0	0	0	0	0
LTSQSEAMALQSIR	AGAP1; AGAP1; AG	Q9UPQ3; H7C0A	AGAP1	HUM	Oxidation (M)	0	0	1317700	0	0	0	0	0	0
LTSSLTTK	UQCRC2; UQCRC2;	P22695; H3BUJ9;	QCR2	HUMA	Unmodified	6779600	7055200	5327500	243640	244130	211140	0	0	0
LTSSSIDPGLSIK	DNTTIP2	Q5QJE6	TDIF2	HUM	Unmodified	789230	0	500560	0	0	0	0	0	0
LTSSVSCALDEAAAALTR	ANKRD17; ANKHDI	O75179; Q8IWZ3;	ANR17	HUM	Unmodified	155040	0	170530	0	0	0	0	0	0
LTTDFGNAEK	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUMA	Unmodified	1832800	1302600	1441500	0	0	0	0	0	0
LTTDFGNAEKTDR	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUMA	Unmodified	431620	447130	576320	0	0	0	0	0	0
LTTDFGNAEKTDR	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUMA	Deamidation (N)	0	2341900	0	0	0	0	0	0	0
LTTDFGNAEKTDRFVMK	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUMA	Oxidation (M);Deai	1025500	718960	1296400	0	0	0	0	0	0
LTTDFNVIVEALSK	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA	HUMAN	Unmodified	127900	0	0	0	0	0	0	0	0
LTTDPDLILEVLR	LARP4; LARP4; LAI	Q71RC2; A0A087	LARP4	HUM	Unmodified	534450	266260	368670	0	0	0	0	0	0
LTTEEVIK	PPM1G	O15355	PPM1G	HUM	Unmodified	2165000	2245300	1743300	0	0	0	0	0	0
LTTEEVIKELAQIAGRPTEDEDEKEK	PPM1G	O15355	PPM1G	HUM	Unmodified	1795700	184260	1335100	0	0	0	0	0	0
LTTLADLFRPPIDLMHK	UBXN7	O94888	UBXN7	HUM	Oxidation (M)	369350	996480	204040	0	0	0	0	0	0
LTTLELLEVR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	4501100	3601800	4577300	62486	59580	45945	0	0	0
LTTLELLEVRR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	3017200	2984000	2786900	67132	51114	40249	0	0	0
LTTPATLTLPEIAASGLTR	ROGDI; ROGDI; ROG	Q9GZN7; K7EPN	ROGDI	HUM	Unmodified	360180	546200	472220	0	0	0	0	0	0
LTTPTYGDLNHLVSATMSGVTTCLR	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Oxidation (M);Deai	6226500	3086100	4231800	0	0	0	0	0	0
LTTPTYGDLNHLVSATMSGVTTCLR	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Oxidation (M)	35156000	19630000	27485000	0	0	0	0	0	0
LTVADALEPVQFEDGQK	PRKAR1A; PRKAR1	P10644; K7EPB2;	KAP0	HUMA	Unmodified	4768800	3421600	5208600	11086	0	0	0	0	0
LTVDEAVR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	16207000	10070000	11135000	2852200	2965800	3029800	0	73909	0
LTVDSAIAR	DSP	P15924	DESP	HUMA	Unmodified	14019000	10631000	14218000	311840	385300	446390	0	0	0
LTVEDLEK	MAPRE1	Q15691	MARE1	HUM	Unmodified	3781900	1489800	2934600	0	0	0	0	0	0
LTVEDLEKER	MAPRE1	Q15691	MARE1	HUM	Unmodified	2760300	2632700	3263900	34245	0	0	0	0	0
LTVEDLEKERDFYFGK	MAPRE1	Q15691	MARE1	HUM	Unmodified	11984000	16673000	13633000	0	0	0	0	0	0
LTVEDLEKERDFYFGKLR	MAPRE1	Q15691	MARE1	HUM	Unmodified	3964200	2537200	3001600	0	0	0	0	0	0
LTVEDPVTVEYITR	PSMA7; PSMA8; PST	O14818; Q8TAA3	PSA7	HUMA	Unmodified	6605600	5272800	3516700	17599	0	20310	0	17954	24731
LTVEEAVR	PLEC; MACF1; MAC	Q15149; Q9UPN3	PLEC	HUMA	Unmodified	0	1234100	0	0	0	0	0	0	0
LTVENSPK	DENR; DENR	O43583; F8VVL1	DENR	HUM	Unmodified	2728800	2016300	2320100	0	220730	127070	0	0	0
LTVGAAQVPAQLLVGALR	CD14; CD14	P08571; D6RFL4	CD14	HUMA	Unmodified	74267	57837	73675	0	0	0	0	0	0
LTVLGSGTFVGMVALR	LRRC70	Q7Z2Q7	LRR70	HUM	Oxidation (M)	0	792570	1014600	0	0	0	0	0	0
LTVLPPELGNLDLTGQK	RSU1	Q15404	RSU1	HUM	Unmodified	367940	429360	272390	0	0	0	0	0	0
LTVLSEER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	7969400	7152300	6852700	151190	180860	0	0	0	0
LTVNPGTK	PARP1	P09874	PARP1	HUM	Unmodified	8757200	11774000	8647800	340010	246000	188220	0	0	10505
LTVNPGTK	PARP1	P09874	PARP1	HUM	Deamidation (N)	696310	459360	0	9321.8	0	0	0	0	0
LTVSSLQESGLK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	1335500	1147200	1474100	80489	67869	0	0	76685	55437
LTWHAYPEDAENK	CBX5	P45973	CBX5	HUMA	Unmodified	592200	716930	462350	0	0	0	0	0	0
LTWHAYPEDAENKEKETAKS	CBX5	P45973	CBX5	HUMA	Unmodified	4340700	5902400	4788000	0	0	0	0	0	0
LTWHSCPEDEAQ	CBX3	Q13185	CBX3	HUMA	Unmodified	5664800	5070900	4718100	144350	170810	194850	0	0	0
LTWHSYPSEDDDKKDDKN	CBX1	P83916	CBX1	HUMA	Unmodified	6954900	9065700	7141700	170780	90601	101550	0	0	0
LTYEIEDEK	DSP	P15924	DESP	HUMA	Unmodified	3024000	0	3480000	0	0	0	0	0	0
LTYEIEDEKR	DSP	P15924	DESP	HUMA	Unmodified	6656300	4840400	4876300	168930	126510	316570	0	0	0
LTYEIEDEKRR	DSP	P15924	DESP	HUMA	Unmodified	4765200	3538900	3224200	147530	151890	228520	0	0	0
LTYPQPVTPWNVQELR	POLR1A; POLR1A	O95602; B9ZVN9	RPA1	HUMA	Unmodified	0	428950	0	0	0	0	0	0	0
LTYTAEVSVPK	LTA4H	P09960	LKHA4	HUM	Unmodified	1249800	880190	668010	0	96811	0	0	0	0
LVAGEMGQNEPDQGGQR	HSD17B10; HSD17B	Q99714; Q5H928	HCD2	HUMA	Oxidation (M)	9869100	9883700	9298700	221230	278650	275550	0	0	0
LVAGEMGQNEPDQGGQR	HSD17B10; HSD17B	Q99714; Q5H928	HCD2	HUMA	Oxidation (M);Deai	288160	0	420040	0	0	0	0	0	0
LVAGSTDQLLSAFVPPEEPPLQPAR	BOP1	Q14137	BOP1	HUMA	Unmodified	1723800	1400900	1512800	0	0	0	0	0	0
LVAIVDPHIKVDSGYR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	0	0	987480	0	0	0	0	0	0
LVAIVDVIDQNR	RPL14; RPL14	P50914; E7EPB3	RL14	HUMA	Unmodified	389550	522610	532100	62313	74893	78147	76475	39686	32416
LVAKEIQAPASADIR	RRP9	O43818	U3IP2	HUMA	Unmodified	459580	476750	741840	0	31035	0	0	0	0
LVALHTFGLFYQR	FAM111B	Q6SJ93	F111B	HUM	Unmodified	437110	494400	0	0	0	0	0	0	0
LVALSEPALALLGLGAPPAR	SELENOO; SELENO	Q9BVL4; A0A087	SELO	HUMA	Unmodified	114480	0	100250	0	0	0	0	0	0
LVAMGSAWPWLLHSVR	GTF3C1	Q12789	TF3C1	HUM	Oxidation (M)	1364300	1934700	1745700	0	0	0	0	0	0
LVAQLYK	CS; CS; CS; CS	O75390; A0A0C4	CISY	HUMA	Unmodified	6691500	7454300	5655400	48620	49856	33989	0	0	0
LVARPEPATGYTLEFR	FSCN1	Q16658	FSCN1	HUM	Unmodified	4922600	5157000	4219200	67712	62082	53754	0	0	0
LVASAEQLLK	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	2335800	2034800	2591400	0	0	0	0	0	0
LVASMEEAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	3903200	4349200	4128700	0	0	100970	9205.5	0	0
LVATLHPCMSDVAEDLCSMLRGDFR	UPF2	Q9HAU5	RENT2	HUM	2 Oxidation (M)	0	987900	1322100	0	0	0	0	0	0
LVAVGGQPR	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB	HUMA	Unmodified	927620	1309700	1164600	0	0	0	0	0	0
LVAVLQGK	AARS2	Q5JTZ9	SYAM	HUM	Unmodified	1116300	400270	488560	0	0	0	0	0	0
LVAYSSDQAHSSVER	DDC; DDC; DDC	P20711; A0A087	DDC	HUMA	Unmodified	9306500	9741900	9343500	29165	30659	0	0	0	0
LVAYYTLIGASGQR	C3	P01024	CO3	HUMA	Unmodified	850240	800600	0	0	0	0	12350	12990	0
LVDEYSLNAGK	HK1	P19367	HXK1	HUMA	Deamidation (N)	957640	848280	1000500	0	0	0	0	0	0
LVDEYSLNAGK	HK1	P19367	HXK1	HUM	Unmodified	0	1742600	2715600	135100	0	84543	0	0	0
LVDKFLEDVKK	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA	Unmodified	594460	805430	771830	0	0	0	0	18164	0
LVDMMER	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X	HUM	2 Oxidation (M)	8211300	8263800	14047000	0	381430	0	0	0	0
LVDPERDMSLR	CAPRIN1; CAPRIN1	Q14444; G3V153	CAPR1	HUM	Oxidation (M)	1032200	3105200	2877900	37671	0	88911	17799	0	20964
LVDPQEMLR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Oxidation (M)	5769100	7369400	7209100	0	110350	6530	0	0	0
LVDPVAGSGGPGSR	CD2BP2	O95400	CD2B2	HUM	Unmodified	2352300	2625700	1919900	158920	147760	149860	0	0	0
LVDQNLNK	SMARCA5	O60264	SMCA5	HUM	Unmodified	0	635940	922640	0	0	0	0	0	0
LVDSKGFDEYMKELGVGIALR	FABP5	Q01469	FABP5	HUM	Oxidation (M)	52052000	38570000	50769000	15604	0	0	0	0	0
LVDSKGFDEYMKELGVGIALR	FABP5	Q01469	FABP5	HUM	Oxidation (M);Met	1295200	1389600	1487600	0	0	0	0	0	0
LVDSKGFDEYMKELGVGIALRK	FABP5	Q01469	FABP5	HUM	Oxidation (M)	69507000	58430000	44662000	38980	0	0	0	0	0
LVDSKGFDEYMKELGVGIALRK	FABP5	Q01469	FABP5	HUM	Oxidation (M);Met	3894800	3378500	3866700	0	0	0	0	0	0
LVDSKGFDEYMKELGVGIALRK	FABP5	Q01469	FABP5	HUM	Unmodified	1738000	460890	2220600	0	0	0	0	0	0
LVDSVKENAGTVR	PELO	Q9BRX2	PELO	HUMA	Unmodified	1742000	1888400	2163100	0	0	0	0	0	0
LVEARPMIHELLTEGR	KPNB1; KPNB1	Q14974; J3KTM9	IMB1	HUMA	Oxidation (M)	3409300	3154300	3042700	0	0	0	0	0	0
LVEARPMIHELLTEGRR	KPNB1; KPNB1	Q14974; J3KTM9	IMB1	HUMA	Oxidation (M)	1481900	1218100	1463800	0	0	0	0	0	0
LVEAVDGK	COLGALT1; COLGA	Q8NBJ5; M0QX7	GT251	HUM	Unmodified	0	677660	0	0	0	0	0	0	0
LVEDHLAVQSLIR	OGDHL; OGDH; OGI	Q9ULD0; Q02218	OGDHL	HUM	Unmodified	623420	884040	401690	0	0	0	0	0	0
LVEDIFQQNVGK	PHF8; PHF8; PHF8	Q9UPP1; H0Y589	PHF8	HUMA	Unmodified	707280	678760	582780	0	0	0	0	0	0
LVEDMENK	CAPZB; CAPZB; CA	P47756; B1AK88;	CAPZB	HUM	Oxidation (M)	2359000	0	0	0	0	0	0	0	0
LVEDMENKIR	CAPZB; CAPZB; CA	P47756; B1AK88;	CAPZB	HUM	Oxidation (M)	18448000	15449000	18964000	809160	740420	712980	0	0	0
LVEEELLK	HIRIP3	Q9BW71	HIRP3	HUM	Unmodified	1644900	1600800	1457200	0	0	0	0	0	0
LVEEEVNIPNRR	MAT2B; MAT2B	Q9NZL9; E5RJR3	MAT2B	HUM	Unmodified	891860	896770	709970	149490	67440	0	0	0	0
LVEIAQVPK	UGP2; UGP2; UGP2	Q16851; E7EUC7	UGPA	HUM	Unmodified	4023700	4422000	3562100	137960	75595	145590	0	0	0
LVEIDNGK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	1010100	0	2150800	109470	89197	103970	0	0	0
LVEIDNGKQR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	460330	467020	525900	65717	59802	103920	0	0	0
LVEIDNGKQREFESR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	17293000	11080000	19567000	633360	606290	685520	35836	0	0
LVELQNTR	TARS2; TARS2; TAR	Q9BW92; F6S7Q7	SYTM	HUM	Unmodified	721240	655720	819570	23628	21477	0	0	0	0
LVELTQK	LRPPRC; PNPLA8; F	P42704; Q9NP80;	LPPRC	HUM	Unmodified	2090000	2173400	1867700	0	0	0	0	0	0
LVEPGSPAEK	SLC9A3R1; SLC9A3	O14745; J3QRP6	NHRF1	HUM	Unmodified	10840000	9803800	9826600	593760	314600	754760	0	0	0
LVEQAFR	FOXK1; PCMTD2; P	P85037; Q9NV79;	FOXK1	HUM	Unmodified	722580	1075600	921860	0	0	0	0	0	0
LVEQHGSDIWWTLPPEQLLPK	IARS2	Q9NSE4	SYIM	HUMA	Unmodified	1286800	460790	575060	0	0	0	0	0	0
LVEQLKEER	LUC7L3; LUC7L3	O95232; J3KPP4	LC7L3	HUM	Unmodified	575680	504280	696310	0	0	0	0	0	0
LVEQLKEERELLR	LUC7L3; LUC7L3	O95232; J3KPP4	LC7L3	HUM	Unmodified	1401400	1085100	933960	0	0	0	0	0	0
LVEQYTK	SF3A1	O15459	SF3A1	HUM	Unmodified	1276900	0	0	0	0	0	0	0	0
LVESDAEAEAVREVYER	CRNKL1; CRNKL1	Q9BZJ0; Q5JY65	CRNL1	HUM	Unmodified	1372800	0	0	0	0	0	0	0	0
LVESLPQEIK	MRPL12; N/A	P52815; B4DLN1	RM12	HUMA	Unmodified	2210900	1674500	2029600	0	0	0	0	0	0
LVEVDSGR	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1	HUM	Unmodified	40115000	40986000	38940000	850090	818140	1014400	0	0	0

LVEVDSGRQIEYEYK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1	HUN	Unmodified	14180000	13713000	13905000	163360	146570	89940	13604	0	0
LVEVDSSR	LMNB2	Q03252	LMNB2	HUN	Unmodified	5915100	5984600	5662500	582130	776180	1104200	0	0	0
LVEVDSSRQQEYDFK	LMNB2	Q03252	LMNB2	HUN	Unmodified	0	0	0	0	0	0	0	0	0
LVEVPAAPVR	RIOX1	Q9H6W3	RIOX1	HUM	Unmodified	386800	270920	304550	0	0	0	0	0	0
LVFAPADEPR	SAPCD2	Q86UD0	SAPC2	HUM	Unmodified	790490	718630	925060	0	0	0	0	0	0
LVFDGLR	DSP	P15924	DESP	HUMA	Unmodified	4581100	4126800	4330300	29737	44891	43985	0	0	0
LVFGFLNGR	PNP; PNP; PNP	P00491; G3V2H3;	PNPH	HUMA	Deamidation (N)	7398800	7999500	10466000	0	0	0	0	0	0
LVFLGEQSVGK	RAB6A; RAB6B; RA	P20340; Q9NRW1	RAB6A	HUM	Unmodified	966190	1471400	961000	0	0	22268	0	0	0
LVFLGLDNAGK	SAR1B; SAR1A; SAI	Q9Y6B6; Q9NR31	SAR1B	HUM	Unmodified	0	1185500	0	10994	18339	11414	6225.3	0	0
LVGDVDFEGVR	MTHFD2; MTHFD2;	P13995; A0A7I2V	MTDC	HUM	Unmodified	1713700	1669400	1893700	28780	0	0	0	0	0
LVGEIMQETGTR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Oxidation (M)	4204200	4123100	3908800	122240	244080	153730	0	0	0
LVGGDIPCSGRVEVK	CD163; CD163; CD1	Q86VB7; C9JHR8	C163A	HUM	Unmodified	473370	0	573980	270730	0	188140	0	13052	21906
LVGGKDFEQPLAISR	PDLIM1	O00151	PDLI1	HUM	Unmodified	7832300	6388000	7350200	393780	319650	174340	96579	120820	48814
LVGGPMDASVEEEGVRR	CST3	P01034	CYTC	HUMA	Oxidation (M)	7972700	6742100	3281800	479070	196480	0	102060	119910	104490
LVGGTTPGK	SUCLG1; SUCLG1	P53597; A0A494	SUCA	HUMA	Unmodified	4147100	2836900	3349500	338130	229150	393570	85277	70115	66879
LVGIFENQER	NUDT3; RPS10-NUD	O95989; S4R435;	NUDT3	HUM	Unmodified	1493600	1294100	0	0	0	0	0	0	0
LVGLEAPSVR	RDH13	Q8NBN7	RDH13	HUM	Unmodified	1538600	1826800	1733200	144060	139860	137080	0	0	0
LVGLEAPSVREQPLPR	RDH13	Q8NBN7	RDH13	HUM	Unmodified	0	0	0	379780	277560	208500	242310	106420	79786
LVGLTGTR	SCO1; SCO1	O75880; J3QL56	SCO1	HUMA	Unmodified	1643500	1066700	1114100	0	0	0	0	0	0
LVGLTGTREEVDQVAR	SCO1; SCO1	O75880; J3QL56	SCO1	HUMA	Unmodified	14990000	14068000	14552000	576990	458050	472790	54262	33824	149750
LVGNDEEPNHSATVMVGITK	N/A	N/A	N/A		Oxidation (M);Deai	2487400	361970	486670	0	0	0	0	0	0
LVGNMHGDETVSR	CPD	O75976	CBPD	HUMA	Oxidation (M);Deai	1061600	366820	481280	0	0	0	0	0	0
LVGPEEALSPGEAR	PLOD3; PLOD3	O60568; H7C2V1	PLOD3	HUM	Unmodified	1923700	1500800	1200100	230330	250220	209570	0	0	0
LVGQGASAVLLDLPNSGGEAQAK	HSD17B10; HSD17B	Q99714; Q5H928	HCD2	HUMA	Unmodified	9543800	5828000	7180800	112920	112130	71667	97447	40366	100940
LVGQGASAVLLDLPNSGGEAQAK	HSD17B10; HSD17B	Q99714; Q5H928	HCD2	HUMA	Deamidation (N)	21216000	21275000	29058000	21593	0	0	0	0	0
LVGSEVGDR	IRF3; IRF3; IRF3; IRI	Q14653; M0QZB8	IRF3	HUMA	Unmodified	1568200	1420400	1898500	72992	21903	0	0	0	0
LVGSGLHTVEAAGEAR	EMILIN1	Q9Y6C2	EMIL1	HUM	Unmodified	0	0	0	0	57728	48992	63137	53704	0
LVGSPPWK	RPAIN	Q86UA6	RIP	HUMAN	Unmodified	369360	479520	428650	0	0	0	0	0	0
LVGSQEELASWGHEYVR	PSMD2; PSMD2	Q13200; H7C2Q3	PSMD2	HUM	Unmodified	0	3230800	4216600	0	0	0	0	0	0
LVGVVPGPVGEPADSDKR	CARS2	Q9HA77	SYCM	HUM	Unmodified	1497700	1174000	1710100	0	46112	48440	0	0	0
LVGYLDR	PSAP; PSAP; PSAP	P07602; Q5BJH1;	SAP	HUMAN	Unmodified	9778100	11080000	9874400	0	0	0	0	0	0
LVHIIGALR	TMEM43	Q9BTV4	TMM43	HUM	Unmodified	257530	265130	212100	0	0	0	0	0	0
LVHPDFFSQR	HSCB; HSCB	Q8IWL3; B0QYH	HSC20	HUM	Unmodified	654360	450230	644710	0	0	0	0	0	0
LVHPGVAEVVFVK	POLDIP3; POLDIP3	Q9BY77; F6VRR4	PDIP3	HUMA	Unmodified	814220	816280	534420	0	0	0	0	0	0
LVHSAVDVPTIQEK	ZMYND11; ZMYND	Q15326; A0A0D9	ZMY11	HUM	Unmodified	702830	611390	813090	0	0	0	0	0	0
LVHSYPYDWR	IARS2	Q9NSE4	SYIM	HUMA	Unmodified	1217100	1761400	1142500	0	0	0	0	0	0
LVHVEEPHTETVR	A2M	P01023	A2MG	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LVIAGHLLR	ACADS; ACADS	P16219; E9PE82	ACADS	HUM	Unmodified	0	622850	883390	0	0	0	0	0	0
LVICPDEGFYK	UBE2M; UBE2M	P61081; M0QYI6	UBC12	HUM	Unmodified	0	1743700	1305700	0	0	0	0	0	0
LVIDVIR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	13109000	1967300	0	0	0	0	0	0	0
LVIIEGDLER	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LVIIEGDLERTEER	TPM3; TPM3; TPM3	P06753; J3KN67;	TPM3	HUMA	Unmodified	1450100	0	0	26616	16948	14970	0	0	0
LVIIESDLER	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1	HUMA	Unmodified	0	0	0	0	0	0	29612	36395	27167
LVIIESDLERAEER	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1	HUMA	Unmodified	0	0	0	0	0	0	94626	41298	65414
LVIITAGAR	LDHAL6A; LDHA; L	Q6ZMR3; P00338	LDH6A	HUM	Unmodified	31291000	33140000	25556000	316330	402800	353300	88161	40062	50151
LVIKNQQFHK	NONO; NONO; NON	Q15233; A0A7I2V	NONO	HUM	Deamidation (N)	2922900	2651600	2601200	49420	87847	41450	0	0	0
LVIKNQQFHK	NONO; NONO; NON	Q15233; A0A7I2V	NONO	HUM	Unmodified	0	3563800	2013600	66867	90787	68532	0	0	0
LVILANNCPALR	RPL30; RPL30; RPL	P62888; E5RJH3;	RL30	HUMA	Deamidation (N)	1472900	1391000	1162700	24207	21395	22235	0	0	0
LVILANNCPALR	RPL30; RPL30; RPL	P62888; E5RJH3;	RL30	HUMA	Unmodified	0	951790	2403000	0	0	0	0	0	0
LVINGNPITIFQER	GAPDH	P04406	G3P	HUMAN	Deamidation (N)	48026000	42622000	51669000	63045	0	48794	16348	57929	0
LVINGNPITIFQER	GAPDH	P04406	G3P	HUMAN	Unmodified	168910	516530	416400	112710	110410	198940	343860	339720	130320
LVINGNPITIFQERDPSK	GAPDH	P04406	G3P	HUMAN	Deamidation (N)	44319000	38725000	38382000	17352	0	0	0	0	0
LVINGNPITIFQERDPSKIK	GAPDH	P04406	G3P	HUMAN	Deamidation (N)	3339100	5402200	5829500	0	0	0	0	0	0
LVIPSELGYGER	FKBP2; FKBP2	P26885; A0A494	FKBP2	HUM	Unmodified	14621000	14228000	16351000	412180	301090	423570	54873	42735	46934
LVKLFDFPGR	RCC2	Q9P258	RCC2	HUMA	Methyl (KR)	3355800	2275200	3099900	22895	32410	9494.6	0	0	0
LVKLPFFNMLDELLK	PIAS4	Q8N2W9	PIAS4	HUMA	Oxidation (M)	527610	605470	482220	0	0	0	0	0	0
LVKPGNQNTQVTEAWNK	PA2G4; PA2G4; PA2	Q9UQ80; F8VR77	PA2G4	HUM	Unmodified	372540	457950	341360	0	0	0	0	0	0
LVKPGNQNTQVTEAWNK	PA2G4; PA2G4; PA2	Q9UQ80; F8VR77	PA2G4	HUM	Deamidation (N)	288610	409370	363830	0	0	0	0	0	0
LVKVNEDTMELLR	SLC27A1	Q6PCB7	S27A1	HUM	Oxidation (M)	982850	0	787820	0	0	0	0	0	0
LVLADLLEPVK	UTP14A	Q9BVJ6	UTP14A	HUM	Unmodified	431990	378820	354870	0	0	0	0	0	0
LVLAEAQVGDER	BCAM; BCAM; BCA	P50895; A0A087	BCAM	HUM	Unmodified	1056300	0	938290	0	0	0	0	0	0
LVLDPGEAPLVPVYSGK	NFATC2IP	Q8NCF5	NF2IP	HUM	Unmodified	1849300	3264500	2194400	0	0	0	0	0	0
LVLDQLR	MYH14; MYH9; ANI	Q7Z406; P35579;	MYH14	HUM	Unmodified	1441800	978240	1130000	34243	36374	40019	0	0	0
LVLDSVKLEA	TBCA; TBCA; TBCA	O75347; E5RIX8;	TBCA	HUMA	Unmodified	42784000	39411000	47431000	5685900	3157000	2657000	1328300	972270	1220300
LVLDTVNEVSR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	747120	1225900	846300	0	0	0	0	0	0
LVLDWDSVR	ARHGAP17; ARHGA	Q68EM7; C9IZD3	RHG17	HUM	Unmodified	1595000	1187800	525490	0	0	0	0	0	0
LVLETLSK	ARID1A; ARID1A; A	O14497; H0Y488;	ARI1A	HUM	Unmodified	1441400	1406000	1373100	0	0	0	0	0	0
LVLEVAQHLGESTVR	ATP5F1B	P06576	ATPB	HUMA	Unmodified	34966000	26640000	28318000	113730	71138	0	175680	93216	79386
LVLLFSGK	PMVK	Q15126	PMVK	HUM	Unmodified	1375600	991570	987760	33071	22544	0	0	0	0
LVLLGESAVGK	RAB5B; RAB5C; RA	P61020; P51148; I	RAB5B	HUM	Unmodified	1514300	3509700	5146700	0	0	0	0	0	0
LVLLSER	MAN2B2; MAN2B2;	Q9Y2E5; E9PCD7	MA2B2	HUM	Unmodified	1310100	1210700	2458200	116920	0	64053	0	0	0
LVLPAPQISDAELQEVVK	CDC5L	Q99459	CDC5L	HUM	Unmodified	12214000	6086700	6523100	0	0	0	0	0	0
LVLPMDDSEPPLNLLDNTR	SLC9A6; SLC9A6; SI	O92581; A0A0D9	SL9A6	HUM	Oxidation (M)	2128300	1717300	151110	0	0	0	0	0	0
LVLPPPDPLDLPLR	SKIV2L; SKIV2L; SK	Q15477; B4E0B4;	SKIV2	HUM	Unmodified	628680	598420	668000	0	0	0	0	0	0
LVLPSLISSR	SELENBP1; SELENB	Q13228; A6PVX1	SBP1	HUMA	Unmodified	5035600	4078900	4524600	706630	548090	392990	16468	17598	0
LVLSDLHLLTQSQVR	L1CAM	P32004	L1CAM	HUM	Unmodified	1667300	1178300	1389700	0	0	0	0	0	0
LVLSYVR	IGF2R; IGF2R; IGF2R	P11717; A0A7I2V	MPRI	HUMA	Unmodified	607650	793260	902660	0	0	0	0	0	0
LVLTQEQLHQLHSR	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1	HUM	Unmodified	2965300	1135200	1867600	96971	76578	50114	0	0	19213
LVLVGDGGTGK	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN	HUMA	Unmodified	73779000	77955000	76079000	1335500	1569400	1004900	23780	0	0
LVLVGDGGTGKTTFVK	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN	HUMA	Methyl (KR)	597810	493980	0	0	0	0	0	0	0
LVLVSPTSEQYDSLLR	GTPBP1	O00178	GTPB1	HUM	Unmodified	617050	530070	741940	0	0	0	0	0	0
LVMAAANR	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB	HUMA	Oxidation (M)	7722600	6187000	0	22792	142230	149820	0	0	0
LVMAESEK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	3331800	4468800	4124800	0	0	0	0	0	0
LVMAESEKSQKLEER	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	1003900	991370	1118100	0	0	0	0	0	0
LVMEEAPESYK	RTCB	Q9Y3I0	RTCB	HUMA	Oxidation (M)	1307700	1929300	833860	82215	86505	208500	0	0	0
LVMELSGEMVR	NDUFS2; NDUFS2; N	O75306; A0A7I2V	NDUS2	HUM	2 Oxidation (M)	1702900	1670800	3000600	0	0	0	0	0	0
LVMGEGKQSTWKIIPSGGGR	N/A	N/A	N/A		Oxidation (M)	579430	2162500	0	0	0	0	0	0	0
LVNACLAEELPHIHAFEQK	BOLA2; BOLA2B	Q9H3K6; A0A087	BOLA2	HUM	Unmodified	1383800	5712300	2623900	0	0	0	0	0	0
LVNELTEK	KTN1	Q86UP2	KTN1	HUMA	Unmodified	3395700	3406300	3577600	189050	143080	248980	0	0	0
LVNGTSQSFIIRPQK	PTK2; PTK2; PTK2;	Q05397; H0YBZ1	FAK1	HUMA	Deamidation (N)	1333700	739580	1005400	35461	24024	84163	0	0	0
LVNHFVEEFK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	962100	1520200	1355100	35849	0	0	0	0	0
LVNHFVEEFKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	3238900	3374500	3330600	0	0	52312	0	0	0
LVNLQHLDLLNNK	LRRC59	Q96AG4	LRC59	HUM	Deamidation (N)	349120	137400	275940	0	0	0	0	0	0
LVNQQLLADPLVPPQLTIK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	807490	759830	825740	0	0	0	0	0	0
LVNQWIK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	2922200	556370	3772700	0	0	0	0	0	0
LVNTGLLTLR	NLN; NLN; NLN; NL	Q9BYT8; H0YAF	NEUL	HUM	Unmodified	0	569880	0	0	0	0	0	0	0
LVPEAVGDQK	CARS1; CARS1	P49589; B4DKY1	SYCC	HUM	Unmodified	704140	817410	543660	55056	0	76935	0	0	0
LVPFDHAESTYGLYR	PGLS; PGLS; PGLS;	O95336; M0R1L2	6PGL	HUM	Unmodified	6278200	5430500	6162500	53748	53966	34394	0	0	14428
LVPGGGATEIELAK	CCT8	P50990	TCPQ	HUM	Unmodified	0	2881200	0	0	0	0	0	0	0
LVPGPVFGSK	LMAN2; LMAN2; LM	Q12907; D6RIU4;	LMAN2	HUM	Unmodified	1193500	0	0	0	44662	0	31981	0	37658
LVPGRHDIAFVEFDNEVQAGAAR	SNRPA; SNRPA	P09012; M0R268	SNRPA	HUM	Deamidation (N)	2122800	1153100	1931100	0	0	0	0	0	0
LVPGRHDIAFVEFENDGQAGAAR	SNRPB2	P08579	RU2B	HUM	Unmodified	1984800	1623500	1921300	55844	0	0	0	0	0
LVPGRHDIAFVEFENDGQAGAAR	SNRPB2	P08579	RU2B	HUM	Deamidation (N)	2832300	2079500	1412800	0	0	0	0	0	0
LVPGWTKPITIGR	IDH2	P48735	IDHP	HUMA	Unmodified	13049000	8803000	9246700	174310	247090	178700	45146	15791	0
LVPLLLEDGGEAPAALEAALEEK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	115370	0	79932	0	0	0	0	0	0
LVPLVNGVR	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
LVPNMTPEVVGEQVTSYLTK	CNDP2	Q96KP4	CNDP2	HUM	Oxidation (M);Deai	1218400	0	1790700	0	0	0	0	0	0
LVPNMTPEVVGEQVTSYLTKK	CNDP2	Q96KP4	CNDP2	HUM	Oxidation (M)	1697800	1318200	0	0	0	0	0	0	0
LVPPPEETYSLHR	COQ8A	Q8NI60	COQ8A	HUM	Unmodified	766200	523980	544410	0	0	0	0	0	0
LVPQQLAH	COX5B	P10606	COX5B	HUM	Unmodified	13569000	12919000	13674000	816080	924300	1032200	164790	146290	198310
LVPSQAEIEAR	ZFYVE19; ZFYVE19	Q96K21; H3BN64	ANCHR	HUM	Unmodified	1390700	1546900	1747300	0	0	0	0	0	0
LVPSVNGVR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Deamidation (N)	1814100	1522200	2618600	0	17312	0	0	0	0
LVPTGLDFGQEGFTR	NOP2	P46087	NOP2	HUMA	Unmodified	669170	514020	626250	0	0	0	0	0	0
LVPVGYGIR	EEF1D; EEF1D; EEF	P29692; E9PQC9;	EF1D	HUMA	Unmodified	36498000	35746000	38062000	1513700	1294800	1471100	59692	112390	63028
LVPVHYDETEAER	NGDN; NGDN	Q8NEJ9; H0YJ17	NGDN	HUM	Unmodified	548490	824900	715020	0	0	0	0	0	0
LVPVLSAK	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Unmodified	8344500	6465200	6874700	104970	125900	132900	0	0	12404
LVQAAQMLQSDPYSVPAR	VCL	P18206	VINC	HUMA	Oxidation (M)	418380	675070	575290	0	25904	27110	0	0	0
LVQAEYWHDPIKEDVYR	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1	HUMA	Unmodified	0	1924300	1880300	0	0	0	0	0	0
LVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKEYFSK	PRDX2	P32119	PRDX2	HUM	Unmodified	3409000	2214200	0	0	0	0	0	0	0
LVQAFQYTDK	PRDX4; PRDX4	Q13162; H7C3T4	PRDX4	HUM	Unmodified	0	0	0	0	0	65628	347780	0	0
LVQDLPEELVHAGWEK	PCIF1	Q9H4Z3	CAPAM	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LVQDVANNTNEEAGDGTTTATVLAR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	2413600	1900600	2037100	139420	0	0	0	0	0
LVQDVANNTNEEAGDGTTTATVLAR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Deamidation (N)	8788700	7229900	8725900	241960	183240	245450	0	0	0
LVQDVANNTNEEAGDGTTTATVLAR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	2 Deamidation (N)	6845200	6532400	6364000	230700	348670	126380	0	0	0
LVQDVANNTNEEAGDGTTTATVLAR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	3 Deamidation (N)	6054200	0	5970300	84745	0	87678	0	0	0
LVQDYGLESEVAQHLAATYGDK	GPD2	P43304	GPDM	HUM	Unmodified	1795200	1602700	1726100	0	0	0	0	0	0
LVQEQKPK	PDS5B; PDS5B	Q9NTI5; A9IYQ1	PDS5B	HUM	Unmodified	378890	375780	398800	15611	24465	18868	0	0	0
LVQGSILK	PCNA	P12004	PCNA	HUMA	Unmodified	1164200	1374800	1021000	0	0	0	0	0	0
LVQIEYALAAVAGGAPSVGIK	PSMA2; N/A; PSMA	P25787; A0A7I2V	PSA2	HUMA	Unmodified	1469800	0	564330	0	0	0	0	0	0
LVQLDSAISMELWQEAFK	EIF3A	Q14152	EIF3A	HUMA	Oxidation (M)	264390	0	0	0	0	0	0	0	0
LVQLLTTTAEQQLR	NCOA1; NCOA1	Q15788; B5MCN7	NCOA1	HUM	Unmodified	0	303260	0	0	0	0	0	0	0
LVQLLVK	JUP	P14923	PLAK	HUMA	Unmodified	964590	876320	811320	30351	36057	40841	0	0	0

LVQLLVR	RNF123; CTNNB1; C	Q5XPI4; P35222;	RN123	HUM	Unmodified	961490	1110900	963330	45477	68868	58502	0	0	0
LVQTAELTK	GMFB; GMFG; GMF	P60983; O60234;	GMFB	HUM	Unmodified	10437000	7334900	6321800	148710	0	284370	0	0	0
LVQTAELTKVFEIR	GMFB; GMFG; GMF	P60983; O60234;	GMFB	HUM	Unmodified	252480	220550	192970	0	0	0	15411	0	0
LVQTPLTDR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1363100	1378000	1438000	0	8956.7	8999.4	0	0	0
LVREIAQDFK	H3-3A; H3C15; H3C1	P84243; Q71DI3;	H33	HUMAN	Unmodified	6515000	5471500	7684700	33403	26419	0	0	0	0
LVREIAQDFKTDLR	H3-3A; H3C15; H3C1	P84243; Q71DI3;	H33	HUMAN	Unmodified	30995000	26821000	26138000	60734	0	0	0	0	0
LVREIAQDFKTDLR	H3-3A; H3C15; H3C1	P84243; Q71DI3;	H33	HUMAN	Methyl (KR)	44542000	29013000	26390000	38671	0	20783	0	0	0
LVRPPVQVYGIEGR	ATP5PO; ATP5PO; A	P48047; H7C086;	ATPO	HUMA	Unmodified	27937000	30582000	27529000	841050	784170	757990	148180	120650	0
LVSDEMVVELIEK	AK2; AK2; AK2; AK	P54819; G3V213;	KAD2	HUMA	Oxidation (M)	10735000	6848300	10432000	40111	17854	0	0	36906	0
LVSDIIDPVALEIPLSK	RIF1; RIF1	Q5UIP0; H7C2B5	RIF1	HUMA	Unmodified	167460	94421	145770	0	0	0	0	0	0
LVSEFPYIEAEVK	GPD2	P43304	GPDM	HUM	Unmodified	4338300	1800900	1709000	0	0	0	0	0	0
LVSEYMSK	ADH5	P11766	ADHX	HUM	Oxidation (M)	683270	794670	0	0	0	0	8707.1	0	0
LVSFHDDSDEDLLHI	IGF2R; IGF2R	P11717; A0A7I2V	MPRI	HUMA	Unmodified	1514100	1186900	1551100	0	0	0	10870	0	0
LVSGPGTTLR	KIF26A	Q9ULI4	KI26A	HUM	Unmodified	0	16362000	0	0	0	0	0	0	0
LVSGWVKPIIIGR	IDH1; IDH1	O75874; C9J4N6	IDHC	HUMA	Unmodified	2236900	1511500	1373900	0	0	0	0	0	0
LVSLIGSK	PSMA1; PSMA1	P25786; F5GX11	PSA1	HUMA	Unmodified	6351700	5949600	6812900	55329	18093	39214	0	0	0
LVSLIGSKTQIPTQR	PSMA1; PSMA1	P25786; F5GX11	PSA1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
LVSNHSLHETSSVFVDSLTK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	2782400	3091000	3705100	0	0	0	94726	0	0
LVSNHSLHETSSVFVDSLTK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Deamidation (N)	4148600	6262800	5614500	0	0	0	245790	0	43960
LVSPETEASEESLQFNLEKPATGER	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B	HUM	Unmodified	1663100	1284800	0	0	0	0	0	0	0
LVSPGSANETSSILVESVTR	FLNB; FLNB; FLNB	O75369; A0A0A0	FLNB	HUMA	Unmodified	3908800	3045800	2759400	234710	156550	88847	161090	53813	65748
LVSPGSANETSSILVESVTR	FLNB; FLNB; FLNB	O75369; A0A0A0	FLNB	HUMA	Deamidation (N)	4874300	3817400	4279700	244550	186060	80468	167600	71810	114130
LVSQDNFGFDLPAVEAATK	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Unmodified	3569100	2460900	3384400	0	0	0	0	0	0
LVSQDNFGFDLPAVEAATK	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Deamidation (N)	1053500	831980	636630	0	0	0	0	0	0
LVSQEEMEFIQR	MRPS36; MRPS36	P82909; D6R941	RT36	HUMA	Oxidation (M)	505760	719500	659880	33974	0	0	0	0	0
LVSQTGPVHAPIFTMSVEVDGNSFEASGPSK	ILF3	Q12906	ILF3	HUMA	Oxidation (M);Deai	1243100	1117400	1151900	0	0	0	0	0	0
LVSQTGPVHAPIFTMSVEVDGNSFEASGPSKK	ILF3	Q12906	ILF3	HUMA	Oxidation (M);Deai	2825300	2721400	3368900	0	0	0	0	0	0
LVSSDPEINTK	NUDC	Q9Y266	NUDC	HUM	Unmodified	12086000	11790000	10231000	269580	292620	313530	0	0	0
LVSSDPEINTK	NUDC	Q9Y266	NUDC	HUM	Deamidation (N)	2338300	2896500	3910900	0	29000	0	0	0	0
LVSSDPEINTKK	NUDC	Q9Y266	NUDC	HUM	Unmodified	1170600	1010500	0	0	0	0	0	0	0
LVSSDPEINTKK	NUDC	Q9Y266	NUDC	HUM	Deamidation (N)	1122400	956940	1114600	0	0	0	0	0	0
LVSSPELGHDEFSTQALAR	SPTBN2	O15020	SPTN2	HUM	Unmodified	765020	0	0	126110	0	63638	34803	41255	31187
LVSTLKQNQVEYEGLK	BICD1; BICD1	Q96G01; A8MVZ	BICD1	HUM	Methyl (KR)	0	0	69347	0	0	0	0	0	0
LVSVLQNK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUMA	Unmodified	2898700	2878300	3738400	0	0	0	0	0	0
LVTEMGTYATQSALSSSRPTK	COPB1	P53618	COPB	HUMA	Oxidation (M)	3590300	2947300	2158500	93049	0	95012	0	0	0
LVTFENVR	SEC31A; SEC31A; SI	O94979; H7BXG7	SC31A	HUM	Unmodified	0	2112100	2995500	137170	130940	0	0	0	0
LVTGGYDYDVK	WDR70; WDR70	Q9NW82; D6RIW	WDR70	HUM	Unmodified	931160	683750	779380	95723	0	0	0	0	0
LVTLEEFLASTQR	NUCB1; NUCB1	Q02818; H7BZI1	NUCB1	HUM	Unmodified	1526600	1454800	1160200	0	0	0	0	0	0
LVTLEEFLASTQRK	NUCB1; NUCB1	Q02818; H7BZI1	NUCB1	HUM	Unmodified	2282900	2541300	2405600	0	0	0	0	0	0
LVTLEEFLK	NUCB2; NUCB2; NU	P80303; H0YD18;	NUCB2	HUM	Unmodified	5962800	4745100	7360500	8034.3	0	12447	0	0	0
LVTLKDVEDGAFLLR	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT	HUMA	Unmodified	230330	506010	892150	0	0	0	0	0	0
LVTLPDITSVAK	SDSL; SDSL; SDSL;	Q96GA7; F8VYZ7	SDSL	HUMA	Unmodified	2074100	2172300	1821400	37187	18598	0	0	0	0
LVTPEDDELDELRPGQR	VAC14	Q08AM6	VAC14	HUM	Unmodified	1494500	1191200	1274100	73233	57956	51138	0	0	23875
LVTQRDADVQNFVSFISKDSIQK	ECI1; ECI1	P42126; Q96DC0	ECI1	HUMA	Unmodified	903960	642450	729940	0	0	0	0	0	0
LVTTGVLK	H1-0	P07305	H10	HUMA	Unmodified	50830000	59271000	52234000	414120	381520	1094100	0	34829	0
LVVECVMNNVTCTR	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	Oxidation (M);Deai	3351200	2964800	3386400	0	34839	14662	0	0	0
LVVECVMNNVTCTR	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	Oxidation (M)	3712700	5281100	3019200	11438	23120	45019	0	0	0
LVVHEGSPVTSISAR	WDR13; WDR13	Q9H1Z4; A0A087	WDR13	HUM	Unmodified	563330	597840	647300	0	79842	0	0	0	0
LVVLGSGGVGK	RAP1B; RAP1A; RA	P61224; P62834; I	RAP1B	HUM	Unmodified	7682100	7861800	6619800	585650	536810	736490	0	101910	45401
LVVPASQCGSLIGK	PCBP3; PCBP2; PCB	P57721; Q15366;	PCBP3	HUM	Unmodified	2697100	2243800	2276900	111180	117690	109670	0	0	0
LVVPATQCGSLIGK	PCBP1	Q15365	PCBP1	HUM	Unmodified	2236200	1640500	2168000	64590	62106	70576	0	0	0
LVVPELSSR	CCDC22	O60826	CCD22	HUM	Unmodified	0	1451100	1157000	0	0	0	0	0	0
LVVQSAAPGSK	RFX1	P22670	RFX1	HUMA	Unmodified	1861700	1512400	1371500	93855	182570	242670	0	0	0
LVVTPASSGGDAAGVSFQK	BTBD17	A6NE02	BTBD8	HUM	Unmodified	2863300	3757100	3565500	76953	84168	58593	0	0	0
LVVTQEDVELAYQEAMMNMAR	SEPHS1	P49903	SPS1	HUMA	3 Oxidation (M)	4895300	3937100	4588300	0	0	0	0	0	0
LVVVGAGGVGK	NRAS; KRAS; HRAS	P01111; P01116;	RASN	HUMA	Unmodified	6961100	6553200	6457100	0	189420	0	0	0	0
LVWIPSER	MYH10; MYH10	P35580; E7ERA5	MYH10	HUM	Unmodified	1753000	934220	959210	43069	52531	56050	0	0	0
LVWVPSDK	MYH9; MYH9; MYH	P35579; Q5BKV1	MYH9	HUM	Unmodified	0	0	0	0	0	0	0	0	0
LVWVPSEK	MYH11; MYH11	P35749; A0A494	MYH11	HUM	Unmodified	0	0	0	0	19261	0	345620	330480	312480
LVYCYPVR	PCIF1; PCIF1	Q9H4Z3; A0A087	CAPAM	HUM	Unmodified	744820	0	0	0	0	0	0	72314	0
LVYDGIR	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Unmodified	1186100	840720	1070800	33280	0	30436	0	0	0
LVYILNRDAAAR	SF3B3	Q15393	SF3B3	HUM	Unmodified	733030	1015100	595610	17027	16610	13759	0	0	0
LVYPDSLGNPDMPVLK	N/A	N/A	N/A		Deamidation (N)	1245500	0	0	0	0	0	0	0	0
LVYQHDDSETTEDDIPFVATR	CSPG4	Q6UVK1	CSPG4	HUM	Unmodified	0	626200	1593900	0	0	0	0	0	0
LVYQNIFTAMQAMIR	GNAQ; GNA11; GNA	P50148; P29992;	GNAQ	HUM	2 Oxidation (M)	1037400	1405000	1271600	0	0	0	0	0	0
LWDHATMTEVK	STRAP	Q9Y3F4	STRAP	HUM	Oxidation (M)	668740	368110	402940	0	0	0	0	0	0
LWDLEK	DSP	P15924	DESP	HUM	Unmodified	0	2173900	2128000	0	0	0	0	0	0
LWDLTTGTTTR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1	HUM	Unmodified	0	6912000	5447900	48466	39627	52445	0	0	0
LWDLTTGTTTRR	RACK1; RACK1; RA	P63244; D6RAU2	RACK1	HUM	Unmodified	3278000	4765200	3398800	0	0	0	0	0	0
LWDLVAGK	PLRG1; PLRG1	O43660; H0YA24	PLRG1	HUM	Unmodified	1618800	1344800	1569000	0	0	0	0	0	0
LWEAGWK	XRN2	Q9H0D6	XRN2	HUMA	Unmodified	3454000	2050100	1848500	0	0	16795	0	0	0
LWEEQLAAAK	PRKCSH; PRKCSH	P14314; K7ELL7	GLU2B	HUM	Unmodified	6704900	6637900	6676300	0	0	0	0	0	0
LWEISTGR	CSTF1; CSTF1	Q05048; A0A0A0	CSTF1	HUM	Unmodified	0	465140	0	0	0	7187.5	0	0	0
LWEVATAR	BOP1	Q14137	BOP1	HUM	Unmodified	1040800	1248200	668090	112300	79286	106450	0	0	17846
LWGDRYFDPANGKFSK	EEF2	P13639	EF2	HUMA	Deamidation (N)	1697600	385420	2193000	0	0	0	0	0	0
LWGLEAQK	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1	HUMA	Unmodified	2288500	1943700	2294900	0	0	0	0	0	0
LWGLTEMFPER	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M)	1915400	1656500	1614500	0	0	0	0	0	0
LWGLTEMFPERVR	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M)	755870	1096900	0	0	0	0	0	0	0
LWPMQAR	USP7; USP7; USP7	Q93009; A0A669	UBP7	HUMA	Oxidation (M)	1004800	844320	782140	0	0	0	0	0	0
LWPSGDR	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6	HUMA	Unmodified	2579600	2712600	2409100	0	0	24107	0	0	0
LWQTVVGK	STRAP; STRAP	Q9Y3F4; H0YH33	STRAP	HUM	Unmodified	1990200	1923800	1572900	17203	0	0	0	0	0
LWSLDSDEPVADIEGHTVR	PRPF4	O43172	PRP4	HUMA	Unmodified	0	0	716490	0	0	0	0	0	0
LWSWGR	RCC2	Q9P258	RCC2	HUMA	Unmodified	0	777340	0	0	0	0	0	0	0
LWVGGLGPNTSLAALAR	RBM15B	Q8NDT2	RB15B	HUM	Unmodified	501990	289270	308510	0	0	0	0	0	0
LWWLDLK	HPX	P02790	HEMO	HUM	Unmodified	0	201770	349300	0	0	0	0	0	0
LYAAEGQK	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B	HUM	Unmodified	2957600	2388700	1079500	0	0	0	0	0	0
LYAGSTVK	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1	HUM	Unmodified	4972400	4458300	2925000	18763	0	11283	0	0	0
LYAMQTGMK	VTA1; VTA1	Q9NP79; A0A087	VTA1	HUMA	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
LYANMFER	FKBP4; FKBP4	Q02790; H0YFG2	FKBP4	HUM	Oxidation (M)	2090700	2271400	2001100	117260	101890	75939	0	0	0
LYASHSQFIKLVAEKR	NUDT9	Q9BW91	NUDT9	HUM	Unmodified	0	0	0	85769	0	0	92624	0	0
LYAVGDNPMSDVYGANLFHQYLQK	HDHD5	Q9BXW7	HDHD5	HUM	Oxidation (M)	2466200	2206300	2533800	0	0	0	0	0	0
LYAYHLSR	DPP3; DPP3; DPP3;	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	1076900	1269200	2676200	0	0	0	0	0	0
LYCPVEFSK	SMS	P52788	SPSY	HUM	Unmodified	1296200	1078500	1112800	0	65389	44339	0	0	0
LYDEMPPSALQR	PKP3	Q9Y446	PKP3	HUMA	Oxidation (M)	1010700	1251300	1063900	0	0	75869	0	0	0
LYDGLFK	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Unmodified	601050	621110	450040	9687.4	0	0	0	0	0
LYDIDVAK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A	HUM	Unmodified	4431200	4280100	4402400	0	79946	0	0	0	0
LYDLNHNEIGELIR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Deamidation (N)	2724100	1952500	2034000	0	0	0	0	0	0
LYDLNHNEIGELIR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	2 Deamidation (N)	2929500	2132400	1762800	0	0	0	0	0	0
LYDLNHNEIGELIR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	684440	733160	780580	0	0	0	0	0	0
LYDNLLEQNLIR	PSMD11	O00231	PSD11	HUM	Unmodified	2135600	2804400	2149100	6695.9	0	0	0	0	0
LYDVPANSMR	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUMA	Oxidation (M)	1880300	2159200	1722100	179800	114810	159370	0	0	0
LYDVPANSMR	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUMA	Oxidation (M);Deai	3693100	3727200	3830000	492980	191420	444190	0	0	0
LYDVPANSMRLK	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUMA	Oxidation (M);Deai	1159100	1352800	1610900	103540	65099	86772	0	0	0
LYEALTPVH	CPSF3; CPSF3	Q9UKF6; G5E9W	CPSF3	HUM	Unmodified	7790700	6312000	8135300	180010	221890	203610	0	10567	0
LYEAYLPETFR	SMAP2; SMAP2; SM	Q8WU79; A0A08	SMAP2	HUM	Unmodified	732330	1209600	691500	0	0	0	0	0	0
LYEIGAGTSEVR	IVD; IVD; IVD	P26440; A0A0A0	IVD	HUM	Unmodified	492750	330090	548570	65072	78502	81977	0	0	0
LYEIGAGTSEVRR	IVD; IVD; IVD	P26440; A0A0A0	IVD	HUM	Unmodified	1074500	0	1143300	170990	197260	187020	20588	37776	44740
LYELGGEPERK	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	Unmodified	647580	688000	0	60249	0	0	0	0	0
LYENFISEFEHR	PSMD13; PSMD13; I	Q9UNM6; E9PQC	PSD13	HUM	Unmodified	619510	638910	1249400	0	0	0	0	0	0
LYEPDQLQELK	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A	HUM	Unmodified	914120	740770	1106000	0	0	0	0	0	0
LYEPDQLQELKIENLDPR	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A	HUM	Unmodified	1650700	0	2983300	0	0	0	0	0	0
LYEQLSGK	PEBP1	P30086	PEBP1	HUM	Unmodified	21994000	23106000	25676000	2458900	2825600	2639900	214040	192740	0
LYETSYR	GTF3C4	Q9UKN8	TF3C4	HUM	Unmodified	609000	861940	0	0	0	0	0	0	0
LYEWISIDKDEAGAK	INPPL1; INPPL1	O15357; A0A0A0	SHIP2	HUM	Unmodified	362900	356260	331550	0	0	0	0	22129	0
LYEWTTEKELR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Unmodified	1255000	846300	934130	0	0	0	0	0	0
LYFKPIGDPVFAR	SMCHD1; SMCHD1;	A6NHR9; A0A2R	SMHD1	HUM	Unmodified	1394800	0	1436800	0	0	0	0	0	0
LYGDADYLEER	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	848030	1305500	992950	0	0	0	0	0	0
LYGIQGIPTLIMLDPQGEVITR	NXN; NXN	Q6DKJ4; A0A0C4	NXN	HUMA	Oxidation (M)	370440	31710	258370	0	0	0	0	0	0
LYGPSSVSFADDFVR	SERPINH1; SERPINI	P50454; E9PK86;	SERPH	HUM	Unmodified	1630300	6039200	5039300	0	0	0	0	0	0
LYGPTNFAPIINHVAR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	Unmodified	17867000	12659000	16309000	26056	15840	19783	0	0	13954
LYGPTNFAPIINHVAR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	Deamidation (N)	5443900	10990000	10177000	85454	0	80350	0	0	0
LYGPTNFAPIINHVAR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	2 Deamidation (N)	310820	376350	356110	0	0	0	0	0	0
LYGPTNFSPIINHVAR	CPNE3	O75131	CPNE3	HUM	Unmodified	3364600	3642800	2865200	0	0	0	0	0	0
LYGPTNFSPIINHVAR	CPNE3	O75131	CPNE3	HUM	Deamidation (N)	2893300	2538900	2838800	0	17892	0	0	0	0
LYGPTNFSPIINHVAR	CPNE3	O75131	CPNE3	HUM	2 Deamidation (N)	808250	707890	238150	0	0	0	9546.5	0	0
LYGSAGPPPTGEEDTAEKDEL	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	Unmodified	23628000	20382000	18192000	513840	401850	484710	0	0	0
LYGSAGPPPTGEEDTAEKDEL	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMA	Methyl (KR)	1099300	0	1474300	0	0	29754	0	0	0
LYGSEAFATDFQDSAAAK	SERPINA3; SERPIN/	P01011; G3V595	AACT	HUM	Unmodified	9014600	6610600	5211900	0	0	0	0	0	0
LYGSEAFATDFQDSAAAKK	SERPINA3; SERPIN/	P01011; G3V595	AACT	HUM	Unmodified	1860500	5358400	5654300	76704	64171	20101	0	0	0
LYGSEAFATDFQDSAAAKK	SERPINA3; SERPIN/	P01011; G3V595	AACT	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
LYHEADKTYMLR	TIPRL	O75663	TIPRL	HUM	Oxidation (M)	505740	700560	606090	0	0	37305	0	0	0
LYHILTPVPPEELR	NOL9	Q5SY16	NOL9	HUMA	Unmodified	0	1904300	2652400	0	0	0	0	0	0

LYHNEVEIEK	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A_HUM	Unmodified	595140	551090	768240	0	0	0	0	0	0
LYHSEAFTVNFGDTEEAK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT_HUMA	Deamidation (N)	633800	993760	1207700	0	0	0	0	0	0
LYHVSDSEGNLVVR	VIL1	P09327	VILI_HUMAN	Unmodified	359610	546190	633470	0	0	0	0	0	0
LYIDSYEKDVAK	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUM/	Unmodified	0	0	0	0	0	0	0	0	0
LYIFQASPADAGQYVCR	HSPG2	P98160	PGBM_HUM	Unmodified	1286600	836600	735730	41304	35384	24468	0	0	16253
LYIYHVTGQGPPSLLLSK	FAM91A1; FAM91A	Q658Y4; E7ER68	F91A1_HUM/	Unmodified	0	0	453200	0	0	0	0	0	0
LYKDDQLLDDGK	ELOB; ELOB	Q15370; B8ZZU8	ELOB_HUMA	Unmodified	922280	845130	1352000	39017	0	20899	0	0	0
LYKEELEQTYHAK	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Unmodified	8750100	29021000	29026000	445280	130630	320680	0	0	0
LYKEELEQTYHAKLENAR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Unmodified	16134000	11855000	13258000	300630	75710	75123	0	0	0
LYKEELEQTYHAKLENAR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Deamidation (N)	7216000	6561100	8407900	40122	0	36017	0	0	0
LYKEELEQTYHAKLENAR	LMNB1; LMNB1; LA	P20700; A0A0D9	LMNB1_HUM	Methyl (KR)	930390	560710	716000	0	0	0	0	0	0
LYKLELEQTYQAK	LMNB2	Q03252	LMNB2_HUM	Unmodified	4601200	4503700	3216300	277130	282330	171880	9633.9	0	0
LYLADPMK	SRP9; SRP9; SRP9; S	P49458; Q659G3;	SRP09_HUM/	Oxidation (M)	0	6490600	2724200	0	0	0	0	0	0
LYLADPMKAR	SRP9; SRP9; SRP9; S	P49458; Q659G3;	SRP09_HUM/	Oxidation (M)	952610	1114300	1402500	0	0	0	0	0	0
LYLDPGLREK	PLOD3; PLOD3	O60568; H7C2V1	PLOD3_HUM	Unmodified	571600	672180	610210	0	28129	0	0	0	0
LYLEQLR	RRP9	O43818	U3IP2_HUMA	Unmodified	1193600	951000	723400	0	0	0	0	0	0
LYLEQLRQQEEEKAEAR	RRP9	O43818	U3IP2_HUMA	Unmodified	3440000	2727100	3718200	49388	0	0	0	0	0
LYLINSPVVR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC_HUMA/	Unmodified	3414000	2413300	4562100	0	0	0	0	0	0
LYLLTEK	TPMT	P51580	TPMT_HUM/	Unmodified	435850	460400	374110	0	25225	0	0	0	0
LYLPVQNK	CFAP20	Q9Y6A4	CFA20_HUM	Unmodified	689510	0	527580	0	0	0	0	0	0
LYLVDLAGSEK	KIF5B; KIF5C; KIF5/	P33176; O60282;	KINH_HUMA	Unmodified	2804300	3293200	2478800	24763	26912	25985	0	0	0
LYLVSDVLYNSSAK	U2SURP; U2SURP	O15042; E7ET15	SR140_HUM/	Deamidation (N)	240000	0	162210	0	0	0	0	0	0
LYLVSDVLYNSSAK	U2SURP; U2SURP	O15042; E7ET15	SR140_HUM/	Unmodified	325040	145160	278090	0	0	0	0	0	0
LYMVSDASGSMR	SCIN; SCIN	Q9Y6U3; E5RHX(	ADSV_HUMA	2 Oxidation (M)	8751200	7847700	13710000	209570	27176	389030	0	0	0
LYNLFLK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2_HUM	Unmodified	1546700	1979800	1724600	0	0	0	0	0	0
LYPAVDEQETPLPR	RANBP9	Q96S59	RANB9_HUM	Unmodified	4520000	4963600	3241700	201150	223300	227850	0	0	0
LYPEGLAQLAR	ATP6V0D1; ATP6V0	P61421; R4GN72;	VA0D1_HUM	Unmodified	4152100	4354600	3620700	104340	76417	95752	0	0	0
LYPELSQYMGLSLNEEEIR	SDCBP; SDCBP; SDC	O00560; G5EA09;	SDCB1_HUM	Oxidation (M)	1774600	0	1205300	0	0	0	0	0	0
LYPEVPEVLKR	MDP1; NEDD8-MDP	Q86V88; E9PL57	MGDP1_HUM	Unmodified	2533800	1690600	2332700	33817	39498	15175	0	0	0
LYPGSVYGR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	8479700	8909700	10636000	67111	92401	0	0	0	0
LYPPSAEYPDLR	CKMT1A; CKMT1B;	P12532; C9JSQ1;	KCRU_HUM/	Unmodified	1879500	1714900	1733600	0	36022	0	0	0	0
LYPVLLVK	MRPL55; MRPL55	Q7Z7F7; X6RIW1	RM55_HUMA	Unmodified	2984400	1895800	1580200	35701	28738	40075	0	0	0
LYPVLQQSLVR	EXOSC6	Q5RKV6	EXOS6_HUM	Unmodified	869940	1470000	413140	0	0	0	0	0	0
LYPWGVVEVENPEHNDFLK	SEPTIN2; SEPTIN2; (	Q15019; H7C2Y0	SEPT2_HUM	Unmodified	1252100	924130	1225100	0	0	0	0	0	0
LYPWGVVEVENPEHNDFLK	SEPTIN2; SEPTIN2; (	Q15019; H7C2Y0	SEPT2_HUM	Deamidation (N)	700270	0	680470	0	0	0	0	0	0
LYQAGEGR	ANXA7	P20073	ANXA7_HUM	Unmodified	12954000	11530000	13536000	2134300	2194000	2052800	133500	0	55230
LYQASPADSGEYVCR	HSPG2	P98160	PGBM_HUM	Unmodified	565090	369120	417040	216770	165560	169620	18640	13810	15118
LYQGHLQEESGPPPESMPK	MRPS18B; MRPS18I	Q9Y676; A0A0G2	RT18B_HUM	Oxidation (M)	2956800	2623100	3113600	70141	73907	94568	0	0	0
LYQGINQLPNVIQALEK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM/	Unmodified	687500	471310	677300	0	0	0	0	0	0
LYQTDPSGTYHAWK	PSMA7; PSMA8; PSI	O14818; Q8TAA3	PSA7_HUMA	Unmodified	4930300	4757200	5414100	39533	0	50984	0	0	0
LYQTLNEGK	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2_HUM	Deamidation (N)	308590	417340	426890	0	0	0	0	0	0
LYQTLNEGK	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2_HUM	Unmodified	0	394160	427930	0	0	0	0	0	0
LYQVEYAFK	PSMA6; PSMA6; PSI	P60900; G3V3U4;	PSA6_HUMA	Unmodified	10112000	10030000	9050500	153250	133170	139700	0	31800	18287
LYQYPNFAGPHAALANK	EIF2A; EIF2A; EIF2A	Q9BY44; C9JZE1;	EIF2A_HUM	Unmodified	1228700	776550	745140	0	0	0	0	0	0
LYRPPPVLDALGR	GCN1	Q92616	GCN1_HUMA	Unmodified	1472600	1370500	1056000	0	0	8407.2	0	0	0
LYSEDELPAEFK	CFAP20	Q9Y6A4	CFA20_HUM	Unmodified	0	0	574930	0	0	0	0	0	0
LYSESLAR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Unmodified	47918000	49572000	42450000	1213200	1012200	1082800	70224	67601	27270
LYSIAAPAR	ABHD12; ABHD12; ;	Q8N2K0; A0A5F9	ABD12_HUM	Unmodified	674620	599910	541200	0	0	0	0	0	0
LYSILGTTLKDEGK	WDR1	O75083	WDR1_HUM/	Unmodified	6571000	7313100	7554400	126450	120030	91431	0	15208	17037
LYSILGTTLKDEGKLLEAK	WDR1	O75083	WDR1_HUM/	Unmodified	3979200	0	5683100	0	0	0	0	0	0
LYSILGTTLKDEGKLLEAK	WDR1	O75083	WDR1_HUM/	Methyl (KR)	514040	341850	463960	0	0	0	0	0	0
LYSLFLK	SUCLA2; SUCLA2; S	Q9P2R7; A0A2R8	SUCB1_HUM	Unmodified	1326900	1922200	1194400	0	0	11495	0	0	0
LYSNWR	SUPT16H; FRYL; FR	Q9Y5B9; O94915	SP16H_HUM	Deamidation (N)	354450	381910	359680	0	0	0	0	0	0
LYSPSQIGAFVLMK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Oxidation (M)	5108500	5850000	5629900	0	0	0	0	0	0
LYSVSYLLK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	3940500	3157900	2987800	17402	14190	0	33468	29522	32145
LYTLLANEGVDADSAGELPR	N/A	N/A	N/A	Unmodified	2156500	0	2024400	0	0	0	0	0	0
LYTLQDK	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	571470	549470	475710	0	0	0	0	0	0
LYTLVLTDPDAPSR	PEBP1	P30086	PEBP1_HUM	Unmodified	14264000	14764000	12580000	99089	117220	60593	21369	18108	0
LYTLVLTDPDAPSRKDPK	PEBP1	P30086	PEBP1_HUM	Unmodified	5357700	5262500	5659500	89433	58850	69030	0	0	0
LYTTMPVAK	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L_HUMA	Oxidation (M)	1201200	1042300	849570	0	0	0	0	0	0
LYVGSLHFNITEDMLR	RBM23; RBM39; RB	Q86U06; Q14498;	RBM23_HUM	Oxidation (M)	1733700	272150	1023900	12583	0	0	0	0	0
LYVGSLHFNITEDMLR	RBM23; RBM39; RB	Q86U06; Q14498;	RBM23_HUM	Oxidation (M);Deai	671030	0	0	0	0	0	0	0	0
LYVHEAVK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	861950	492310	724640	117180	131420	96353	0	0	0
LYVIGTGER	NUDCD1; NUDCD1	Q96RS6; A0A7I2\	NUDC1_HUM	Unmodified	2194400	2563300	2149500	0	0	44813	0	0	0
LYVIYKVPQVR	SNRPA1; SNRPA1; S	P09661; H0YMA(	RU2A_HUMA	Unmodified	1194100	1115700	932160	9534.8	15548	0	0	0	0
LYVPVKEYPDFNFVGR	QKI; QKI; QKI; QKI;	Q96PU8; F5H8C8	QKI_HUMAN	Unmodified	814220	660020	697130	0	0	0	0	0	0
LYVSNLGIGHTR	PPAT; PPAT	Q06203; D6RCC8	PUR1_HUMA	Unmodified	1369200	1006700	1310700	0	0	0	0	0	0
LYVSNLGIGHTR	PPAT; PPAT	Q06203; D6RCC8	PUR1_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
MAAAGGGGGGGR	HNRNPL	P14866	HNRPL_HUM	Oxidation (M)	301230	766380	591270	0	19687	43078	0	0	0
MAAAVRCMGR	MRPL1	Q9BYD6	RM01_HUMA	Acetyl (Protein N-t	949810	848960	655500	96755	49651	39253	0	0	0
MAAERQEALR	NSFL1C; NSFL1C; N	Q9UNZ2; G3V4V(	NSF1C_HUM	Acetyl (Protein N-t	4140100	5961900	0	0	0	0	0	0	0
MAAGIGLELYK	SCPEP1; SCPEP1; SC	Q9HB40; I3L506;	RISC_HUMA/	Oxidation (M)	2045000	1852400	3390100	0	0	0	0	0	0
MAAHTMGNATVGR	TMPO	P42166	LAP2A_HUM	2 Oxidation (M)	220600	202490	286630	0	0	0	0	0	0
MAAHTMGNATVGR	TMPO	P42166	LAP2A_HUM	2 Oxidation (M);De	0	0	484790	0	0	0	0	0	0
MAALVLEDGSVLR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Acetyl (Protein N-t	3342000	4647200	5481900	344460	387580	379560	0	68527	70052
MAAMKEKPAENTLFKAYPNK	ZNF638	Q14966	ZN638_HUM	Methyl (KR);2 Dea	284960	272270	0	0	0	0	0	0	0
MAAPGALLVMGVSGSGNWDGNSMMLMIITRRK	IDNK	F8WJ0	F8WJ0_HUM	2 Oxidation (M);M	0	0	1210600	0	0	0	0	0	0
MAAPIDRVGQTIER	HNRNPM; HNRNPM	P52272; M0QZM(	HNRPM_HUM	Oxidation (M)	37385000	34404000	36337000	13221000	13572000	13003000	1823300	1182800	1164300
MAAPVRR	MRPL46; MRPL46;)	Q9H2W6; H0YN6	RM46_HUMA	Acetyl (Protein N-t	0	193590	0	0	12993	0	0	0	0
MAAQKINEGLEHLAK	NAPG; NAPG; NAPC	Q99747; J3QKW4	SNAG_HUMA	Acetyl (Protein N-t	532470	703950	0	51672	57713	41189	9969.8	0	0
MAAQSAPKVVLK	CHTOP; CHTOP	Q9Y3Y2; A0A087	CHTOP_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MADCGGLPQISQPAK	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1_HUM	Oxidation (M)	2510000	1764500	2767200	0	0	0	0	0	0
MADDVVAIESEVK	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2_HUM	Oxidation (M)	1592000	1293400	1470400	0	0	0	0	0	0
MADEAILQER	NCOA5	Q9HCD5	NCOA5_HUM	Oxidation (M)	2961100	2603300	2996000	133120	132520	199370	0	0	0
MADEAILQERER	NCOA5	Q9HCD5	NCOA5_HUM	Oxidation (M)	6515700	5339100	8111600	207180	279540	236170	12824	0	0
MADEDALR	RNF20	Q5VTR2	BRE1A_HUM	Oxidation (M)	542710	751140	968050	0	18191	17591	0	0	0
MADFWLTEKDLIPK	MRPL17	Q9NRX2	RM17_HUMA	Oxidation (M)	1820100	1854200	1617400	0	0	0	0	0	0
MADLEEQLSDEEKVRIAAK	CAPZA2; CAPZA2; (	P47755; F8W9N7;	CAZA2_HUM	Acetyl (Protein N-t	140810	0	0	0	0	0	0	0	0
MADLSELLK	HMOX2; HMOX2; H	P30519; I3L276; I	HMOX2_HUM	Oxidation (M)	2073700	1131100	1325300	68993	57548	64029	0	0	0
MADSEIPR	SYMPK; SYMPK; SY	Q92797; M0R3C7	SYMPK_HUM	Oxidation (M)	0	1658400	0	50747	85188	0	0	0	0
MAEAHAR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Oxidation (M)	0	97625	0	0	0	0	0	0	0
MAEDELFNRYER	NUP107	P57740	NU107_HUM	Oxidation (M)	928350	764900	700050	0	0	0	0	0	0
MAEEHSEFVVGFISGSR	UMPS	P11172	UMPS_HUM/	Oxidation (M)	1320300	1219100	985800	0	0	0	0	0	0
MAEFGPDSGGR	YEATS4; YEATS4; Y	O95619; F8W0J4;	YETS4_HUM	Oxidation (M)	286790	273540	450720	18265	24107	28394	0	0	0
MAEFLDWSLCNLAR	TBCD; TBCD	Q9BTW9; J3KR97	TBCD_HUM/	Oxidation (M)	133980	67850	218800	0	0	0	0	0	0
MAEGGVTSEDYR	ATXN3; ATXN3; AT	P54252; D3VVP3	ATX3_HUMA	Oxidation (M)	957860	1108700	1122200	0	0	83452	0	0	0
MAEIGEHVAPSEAANSLEQAQAAAER	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Oxidation (M);Deai	4834100	4705400	5146500	0	50512	0	0	0	0
MAEIGEHVAPSEAANSLEQAQAAAER	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Oxidation (M)	1627100	1808400	2077500	0	0	0	0	0	0
MAELGLNEHHQNEVINYMR	LZTFL1	Q9NQ48	LZTL1_HUM	Acetyl (Protein N-t	0	0	0	0	0	65794	0	0	68478
MAENLGFVGPLK	SUCLG2; SUCLG2; S	Q96I99; E9PDQ8	SUCB2_HUM	Oxidation (M)	3617500	2926900	3461800	94867	99683	88392	16963	0	0
MAENSGRAGK	PFDN2	Q9UHV9	PFD2_HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MAEPFTK	XPO5	Q9HAV4	XPO5_HUMA	Oxidation (M)	2778700	2649800	2792800	101100	89217	102010	0	0	0
MAEQWLQEKEAER	SUPT6H	Q7KZ85	SPT6H_HUM	Oxidation (M)	608000	363660	590930	0	0	0	0	0	0
MAESLRIPEGPIDQGPAIGR	FUT8; FUT8	Q9BYC5; A0A669	FUT8_HUMA	Oxidation (M)	1367100	0	1175100	0	15649	18497	0	0	0
MAETVDTSEMVNGATEQR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	2 Oxidation (M);De	473050	636710	955260	66368	58088	84558	0	0	0
MAEVQVLVLDGR	RPL13A; RPL13A; R	P40429; A0A7I2V	RL13A_HUM	Acetyl (Protein N-t	8295500	0	13171000	0	0	0	0	0	0
MAFGATLDVK	SEC23B; SEC23B	Q15437; A0A2R8	SC23B_HUM	Oxidation (M)	639660	1206400	1042800	0	95005	0	0	0	0
MAFKDTGK	RPS20; RPS20; RPS2	P60866; E5RIP1;	RS20_HUMA	Acetyl (Protein N-t	651580	646710	644780	98823	104210	0	0	0	0
MAFKQMEQISQFLK	TAGLN3; TAGLN3; '	Q9UI15; H7C5N2	TAGL3_HUM	2 Oxidation (M)	1582500	0	1123100	0	0	0	0	0	0
MAFPLLDMVDLER	HDHD5	Q9BXW7	HDHD5_HUM	2 Oxidation (M)	8032700	6470100	6852500	0	0	0	0	0	0
MAFPLLDMVDLERR	HDHD5	Q9BXW7	HDHD5_HUM	2 Oxidation (M)	812190	0	0	0	0	0	0	0	0
MAFRPGVVDLPEENR	RAD21; RAD21; RAI	O60216; E5RJW1	RAD21_HUM	Oxidation (M)	2025400	3067200	2496900	0	68901	0	0	0	0
MAGAAGRVQDR	DDX19B	H3BQK0	H3BQK0_HU	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MAGAIAQGLIR	PYCR3; PYCR3; PY(	Q53H96; F8WEI0;	P5CR3_HUM	Oxidation (M)	2858600	1833800	2249900	260170	0	146950	0	0	0
MAGAIPLVTAGSQK	TP53I3; TP53I3	Q53FA7; H7BZH(	QORX_HUMA	Oxidation (M)	3163300	2223800	1936800	0	44249	0	0	0	0
MAGAIPLVTAGSQKK	TP53I3; TP53I3	Q53FA7; H7BZH(	QORX_HUMA	Oxidation (M)	2525600	2665400	3449500	0	0	0	0	0	0
MAGATPVFIPLR	KYAT3; KYAT3	Q6YP21; A0A0A(	KAT3_HUMA	Oxidation (M)	7334200	7939200	7323300	1497500	1438500	1467100	115620	122400	140260
MAGDETQPTR	SREK1	Q8WXA9	SREK1_HUM	Oxidation (M)	1514700	2114100	1738500	52930	54693	61722	0	0	0
MAGDPVANVR	PPP2R1A; PPP2R1A;	P30153; B3KQV6	2AAA_HUMA	Oxidation (M)	25308000	21651000	22556000	166400	127300	141140	0	0	0
MAGDPVANVRFNVAK	PPP2R1A; PPP2R1A;	P30153; B3KQV6	2AAA_HUMA	Oxidation (M)	1902800	1402900	817430	74928	72877	70821	0	0	0
MAGGKAGKDSGKAK	H2AZ2; H2AZ1; H2A	Q71UI9; P0C0S5;	H2AV_HUMA	Acetyl (Protein N-t	0	0	723890	0	0	0	0	0	0
MAGSRRECRR	RPL23	P62829	RL23_HUMA	Acetyl (Protein N-t	0	0	3988100	0	0	0	0	0	0
MAGTAFDFENMKR	GDI1	P31150	GDIA_HUMA	2 Oxidation (M)	3605300	4435100	4217100	300540	216140	272990	0	0	0
MAGTAFDFENMKR	GDI1	P31150	GDIA_HUMA	2 Oxidation (M);De	2906100	3136900	2856500	90881	129220	152540	0	0	0
MAIMVQSPMFDGK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	3 Oxidation (M)	1436300	3083800	3180600	37992	0	0	0	0	0
MAIQTQQSK	TOMM40; TOMM40	O96008; K7EKG4	TOM40_HUM	Oxidation (M)	925530	1295500	1115200	0	42074	104220	0	0	0
MAKDRKSR	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1_HUM/	Oxidation (M);2 M	717390	0	0	0	0	0	0	0	0
MAKIEKNAPTMEK	SULT1C3	Q6IMI6	ST1C3_HUM/	Acetyl (Protein N-t	3309800	3374600	3389600	111010	86768	110580	0	0	0
MAKPEEVLVVENDQGEVVR	XPO1; XPO1; XPO1;	O14980; A0A7I2\	XPO1_HUMA	Oxidation (M)	1170500	1417500	1355400	0	77380	33931	0	0	0
MAKPEEVLVVENDQGEVVR	XPO1; XPO1; XPO1;	O14980; A0A7I2\	XPO1_HUMA	Oxidation (M);Deai	1923700	1705200	1504100	0	0	0	0	0	0
MAKTAMAYKEK	STMN2	Q93045	STMN2_HUM	2 Oxidation (M);M	607370	403330	451460	0	0	0	0	0	0
MALDIEIATYR	PRPH; VIM; VIM; VI	P41219; P08670; I	PERI_HUMA	Oxidation (M)	0	0	954790	86828	66850	25696	14591	0	0
MALDIEIATYRK	PRPH; VIM; VIM; VI	P41219; P08670; I	PERI_HUMA	Oxidation (M)	2531400	2631600	2357800	159610	128360	76517	0	26501	0

MALDVEIATYRK	DES	P17661	DESM	HUM/	Oxidation (M)	0	0	0	0	0	0	62787	48297	0
MALELLTQEFGIPIER	AARS1; AARS1; AAI	P49588; A0A6Q8I	SYAC	HUMA	Oxidation (M)	566550	0	390240	0	0	0	0	0	0
MALEVGDYK	CDH1	P12830	CADH1	HUM	Oxidation (M)	1134900	1085800	825220	191610	160170	177310	0	0	0
MALEVVFLAR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Oxidation (M)	0	111760	93520	0	0	0	0	0	0
MALHSMRK	WARS2	Q9UGM6	SYWM	HUM	Acetyl (Protein N-t	0	312520	0	0	0	0	0	0	0
MALIGLGVSHPVLK	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2	HUMA	Oxidation (M)	1808300	2094700	1969600	0	0	0	0	0	0
MALKRINKELSDLAR	UBE2D3; UBE2D3; U	P61077; D6R980;	UB2D3	HUM	Acetyl (Protein N-t	0	60996	0	0	0	0	0	0	0
MALLATVLGR	CAD; CAD; CAD	P27708; F8VPD4;	PYR1	HUMA	Oxidation (M)	1634500	603790	501010	0	0	0	0	0	0
MALLATVLGRF	CAD; CAD; CAD	P27708; F8VPD4;	PYR1	HUMA	Oxidation (M)	5346200	3682500	5289600	0	0	0	0	0	0
MALLMAEMSR	VCL	P18206	VINC	HUMA	3 Oxidation (M)	2777700	2266800	2743400	0	200570	439150	40254	0	0
MALNHPYFNDLDNQIK	CDK1; CDK1	P06493; A0A024(	CDK1	HUMA	Oxidation (M)	596480	0	0	0	0	0	0	0	0
MALNHPYFNDLDNQIK	CDK1; CDK1	P06493; A0A024(	CDK1	HUMA	Oxidation (M);Deai	0	867500	0	0	0	0	0	0	0
MALPELVR	USP5	P45974	UBP5	HUMA	Oxidation (M)	213960	1488100	1761800	75049	65956	0	0	0	0
MALRVTRNSKINAENK	CCNB1; CCNB1; CC	P14635; E9PC90;	CCNB1	HUM/	Acetyl (Protein N-t	0	59866000	0	0	0	0	0	0	0
MALSKRELDELK	PRPF3	O43395	PRPF3	HUM/	Acetyl (Protein N-t	2316700	5289900	2334600	180820	156550	172750	0	0	0
MALSKSMHARNRYK	METTL16; METTL1	Q86W50; I3L362;	MET16	HUM	Acetyl (Protein N-t	263200	0	0	0	0	0	0	0	0
MALVLEALPQIAAK	FLOT2; FLOT2; FLO	Q14254; J3QLD9;	FLOT2	HUM	Oxidation (M)	770480	681870	624280	0	0	0	0	0	0
MALVPYEETTEFGLQK	METTL21A; METTL	Q8WXB1; C9JES(	MT21A	HUM	Acetyl (Protein N-t	447430	312320	394860	0	0	0	0	0	0
MALVTVSR	SSH3; SSH3; SSH3	Q8TE77; E9PMS1	SSH3	HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MANRDLLSSVSR	ANXA7	P20073	ANXA7	HUM	Oxidation (M);Deai	0	774970	999500	0	0	43884	0	0	0
MANSAKAEEYEKMSLEQAK	RNMT; RNMT	O43148; K7EPP5	MCES	HUM/	Acetyl (Protein N-t	443850	0	0	0	0	0	0	0	0
MAPALSGANLTSPR	SRRM2	Q9UQ35	SRRM2	HUM	Oxidation (M)	7827000	8179300	7224600	412300	447480	438260	45180	84462	84921
MAPALSGANLTSPR	SRRM2	Q9UQ35	SRRM2	HUM	Oxidation (M);Deai	888140	2347000	2532900	49935	0	0	0	0	0
MAPSAEER	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9	HUM	Oxidation (M)	868010	0	1031700	19179	15766	0	0	0	0
MAPTPIPTR	DBN1; DBN1	Q16643; D6R9Q9	DREB	HUM/	Oxidation (M)	13689000	16408000	14006000	122990	86643	93908	30918	28367	74212
MAPTPIPTRSPSDSSTASTPVAEQIER	DBN1; DBN1	Q16643; D6R9Q9	DREB	HUM/	Oxidation (M)	19734000	19714000	19417000	604980	0	773050	0	0	0
MAPVPLDDSNRPASLTK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Oxidation (M)	1177800	1621700	1134200	0	51345	0	0	0	24155
MAPYQGPDAVPGALDYK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M)	10360000	7713700	8991000	579190	668840	603330	91359	84000	95305
MAQALEELR	LMNB2	Q03252	LMNB2	HUM	Oxidation (M)	4189900	4029300	3191800	322610	285930	366100	0	0	0
MAQDQGEK	RPL11	P62913	RL11	HUMA	Oxidation (M)	574440	639850	532850	0	0	0	0	0	0
MAQELYMEQK	EIF3B	P55884	EIF3B	HUM/	2 Oxidation (M)	397190	387360	0	0	0	0	0	0	0
MAQELYMEQKNER	EIF3B	P55884	EIF3B	HUM/	2 Oxidation (M)	458650	488780	0	0	0	0	0	0	0
MAQELYMEQKNERLELR	EIF3B	P55884	EIF3B	HUM/	2 Oxidation (M)	990390	850340	775270	19877	22597	0	0	0	0
MAQFDAK	EEF1G	P26641	EF1G	HUMA	Oxidation (M)	7138900	441250	8843100	277450	298920	312570	0	0	0
MAQFDAKK	EEF1G	P26641	EF1G	HUMA	Oxidation (M)	3568100	609450	0	0	134400	0	0	0	0
MAQYLEEER	CCDC6	Q16204	CCDC6	HUM	Oxidation (M)	562500	486860	559850	31932	0	0	0	0	0
MASIMEGPLSK	OSBPL9; OSBPL9; C	Q96SU4; G8JLK0	OSBL9	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MASNIFGPTEEPQNIPK	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2	HUMA	Oxidation (M)	6479800	6082400	5658400	274840	178130	245270	0	0	0
MASNIFGPTEEPQNIPKR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2	HUMA	Oxidation (M)	1910600	1797800	1463900	132740	133840	72531	0	0	0
MASNIFGTPEENQASWAK	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUMA	Oxidation (M)	1441800	1317100	1123600	53027	34427	42618	0	0	0
MASNKTTLQK	CBX3; CBX3; CBX3	Q13185; B8ZZ43;	CBX3	HUMA	Acetyl (Protein N-t	1373300	0	0	0	0	0	0	0	0
MASVGLSDIAMDTTVTHATSHGR	HSPG2	P98160	PGBM	HUM/	2 Oxidation (M)	4409200	3864900	4831900	396980	149940	278630	31654	28183	0
MATADEIVK	TKFC; TKFC	Q3LXA3; H0YCY	TKFC	HUMA	Oxidation (M)	1104500	895800	1008300	0	49754	0	0	0	0
MATAVSRPCAGRSR	NDC1	Q9BTX1	NDC1	HUMA	Acetyl (Protein N-t	414350	398710	615220	0	0	0	0	0	0
MATCIWLRSCGARR	ALDH5A1; ALDH5A	P51649; C9J8Q5	SSDH	HUMA	Oxidation (M);2 M	10871000	12010000	11950000	395140	542040	658910	31709	44331	41936
MATEVAADALGEEWK	RPS6; RPS6; RPS6	P62753; A2A3R5;	RS6	HUMAN	Oxidation (M)	8169200	5724900	6027100	41240	90557	27428	0	0	0
MATEVAADALGEEWKGYVVR	RPS6; RPS6	P62753; A2A3R5	RS6	HUMAN	Oxidation (M)	22813000	24574000	21390000	27122	0	0	0	0	0
MATEVAADALGEEWKGYVVR	RPS6; RPS6	P62753; A2A3R5	RS6	HUMAN	Oxidation (M);Metl	3109200	2389100	0	0	0	0	0	0	0
MATGLERMGANNLER	HNRNPM; HNRNPM	P52272; M0QZM(	HNRPM	HUN	2 Oxidation (M);De	181680	175770	204530	108460	0	127020	20675	14917	16493
MATLYSR	PTGDS; PTGDS; PTC	P41222; H0Y5A1;	PTGDS	HUM	Oxidation (M)	0	0	0	316690	349290	416680	0	0	0
MATQASTLYSNNITK	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM/	Oxidation (M);Deai	694050	0	732880	0	0	0	0	0	0
MAVDQDWPSVYPVAAPFKPSAVPLPVR	MRPS35; MRPS35	P82673; H0YG82	RT35	HUMA	Oxidation (M)	4354900	2471500	1526800	0	0	0	0	0	0
MAVGRNNTIVTK	OR5A2	Q8NGI9	OR5A2	HUM	Acetyl (Protein N-t	0	0	12693000	0	0	0	0	0	0
MAVIEYK	MRPL17; MRPL17	Q9NRX2; E9PKV	RM17	HUMA	Oxidation (M)	178460	177050	201900	0	0	0	0	0	0
MAVLNEQVK	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Oxidation (M)	5923000	5742200	6602500	131320	133050	0	0	0	0
MAVLNEQVK	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Oxidation (M);Deai	1868400	0	0	0	0	0	0	0	0
MAVLNEQVKEAEGSSAEYKK	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Oxidation (M)	0	1448400	1603500	0	0	0	0	0	0
MAVQDAVDALMQK	RANGAP1	P46060	RAGP1	HUM	2 Oxidation (M)	579910	544090	550910	0	0	0	0	0	0
MAVRNNLAGAEELFAR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Oxidation (M)	361240	374770	354360	0	0	0	0	0	0
MAVRNNLAGAEELFAR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Oxidation (M);Deai	4303200	3640100	5139600	31966	26890	6758.3	0	0	0
MAVRNNLAGAEELFAR	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Oxidation (M);2 De	695500	916110	973380	0	0	0	0	0	0
MAVTFIGNSTAIQELFK	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Oxidation (M);Deai	2882500	1448700	2468700	0	0	0	0	0	0
MAVTFIGNSTAIQELFK	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Oxidation (M)	1017300	1009300	1224700	0	0	0	0	0	0
MAVTFIGNSTAIQELFK	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Deamidation (N)	202780	0	0	0	0	0	0	0	0
MAVTFIGNSTAIQEFKR	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Oxidation (M);Deai	76146000	53280000	58369000	0	0	0	0	0	0
MAVTFIGNSTAIQEFKR	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Oxidation (M)	4307000	5464700	5296500	0	0	0	0	0	0
MAVTFIGNSTAIQEFKR	TUBB; TUBB; TUBB	P07437; Q5JP53;	TBB5	HUMA	Oxidation (M);Metl	1659100	1336500	1617900	0	0	0	0	0	0
MAYYEMR	CMAS; CMAS	Q8NFW8; F5GYN	NEUA	HUM/	2 Oxidation (M)	1219700	1124300	712290	88783	112000	0	0	0	0
MCLAADVPLIESGTAGYLGQVTTIK	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUMA	Oxidation (M)	776800	861790	992410	0	0	0	0	0	0
MCLAADVPLIESGTAGYLGQVTTIKK	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUMA	Oxidation (M)	1386700	1483600	1167500	0	0	0	0	0	0
MCLFAGFQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M)	5096600	5544000	4280900	147870	137870	187820	16589	19577	0
MCPKSLSEKNSNNEVACKK	WDR76; WDR76; WI	Q9H967; A0A0C4	WDR76	HUM	Acetyl (Protein N-t	928810	1162800	1114900	0	0	0	0	0	0
MCPQLQQVEMHGPEGLR	A2M	P01023	A2MG	HUM/	2 Oxidation (M)	4092100	4630900	4917000	427150	0	0	0	0	0
MDAEQDPNVQVDHLNLLK	NUCB1; NUCB1	Q02818; C9JKZ2	NUCB1	HUM	Oxidation (M)	758920	837830	1091100	0	0	0	0	0	0
MDAEVPDVNIEGPDAK	AHNAK	Q09666	AHNK	HUM/	Oxidation (M)	0	0	0	66686	85093	93674	0	0	0
MDAGFFR	SRRM1; SRRM1; SR	Q8IYB3; E9PCT1	SRRM1	HUM	Acetyl (Protein N-t	468730	372390	365830	82285	77472	76670	0	0	0
MDAILTEAIK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Oxidation (M)	5023000	5005000	5467900	312480	280050	301390	0	6937.6	8691.6
MDATANDVPSDR	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM/	Oxidation (M);Deai	494250	869840	1213900	0	0	55786	0	0	0
MDATANDVPSDR	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM/	Oxidation (M)	0	408850	443110	0	0	0	0	0	0
MDATANDVPSPYEVR	PDIA3	P30101	PDIA3	HUM/	Oxidation (M)	6274700	5801100	6654600	404830	397290	477710	0	0	0
MDATANDVPSPYEVR	PDIA3	P30101	PDIA3	HUM/	Oxidation (M);Deai	21999000	22099000	21066000	1054200	1435900	1294300	0	0	0
MDDIFTQCREGNAVAVR	ILK; ILK; ILK; ILK	Q13418; A0A0A0	ILK	HUMAN	Acetyl (Protein N-t	0	0	0	108800	100670	57697	18399	0	45293
MDDKELIEYFK	EIF2B1; EIF2B1	Q14232; H0YGG4	EI2BA	HUM/	Acetyl (Protein N-t	999940	982910	821390	25661	29927	22912	0	0	0
MDDREDLVYQAK	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUMA	Acetyl (Protein N-t	244390000	257470000	262130000	23249000	20786000	24197000	168260	136480	94319
MDDREDLVYQAK	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUMA	Acetyl (Protein N-t	0	0	1356700	0	0	0	0	0	0
MDDVINISGHR	ACSS1	Q9NUB1	ACS2L	HUM	Oxidation (M)	712050	625930	686270	183790	114280	120340	0	31522	21609
MDEEFTK	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM/	Oxidation (M)	814660	940500	862910	32902	0	30318	0	0	0
MDEFHPFIEALLPHVR	NFIB; NFIB; NFIC; N	U3KQE8; A0A1B(	U3KQE8	HUM	Acetyl (Protein N-t	811030	401910	0	0	0	0	0	0	0
MDELQLFR	VCP; VCP; VCP; VC	P55072; A0A7P0	TERA	HUMA	Oxidation (M)	20008000	12722000	13315000	649240	31152	668290	21565	0	0
MDELQLFRGDTVLLK	VCP; VCP; VCP; VC	P55072; A0A7P0	TERA	HUMA	Oxidation (M)	1178000	829940	768330	0	0	0	0	0	0
MDELQLFRGDTVLLKGK	VCP; VCP; VCP; VC	P55072; A0A7P0	TERA	HUMA	Oxidation (M)	923950	0	477360	0	0	0	0	0	0
MDENQFVAVTSTNAAK	CRMP1; DPYSL3; DI	Q14194; Q14195;	DPYL1	HUM	Oxidation (M)	1805700	1556200	914490	88228	0	57166	0	0	0
MDEPSPLAQPLELNQHSR	ACACA; ACACA; AC	Q13085; A0A087	ACACA	HUM	Acetyl (Protein N-t	0	0	0	459810	0	631900	178120	0	258790
MDFENLFSKPPNPALGK	ZC3H8; ZC3H8	Q8N5P1; A0A0C4	ZC3H8	HUM	Acetyl (Protein N-t	0	3265600	0	0	0	0	0	0	0
MDFLLGNPFSSPVGQRIEK	TOM1; TOM1; TOM	O60784; F8WAW	TOM1	HUM/	Acetyl (Protein N-t	927300	735240	796920	0	0	0	0	0	0
MDFQHRPGGK	SF3A2; SF3A2	Q15428; K7EMT0	SF3A2	HUM/	Acetyl (Protein N-t	9627800	9835300	10604000	1701500	2285100	2351200	261980	426780	366310
MDFSKLPK	ATP6V1A; ATP6V1A	P38606; F8WDJ3;	VATA	HUM/	Acetyl (Protein N-t	1010900	1031000	1191300	327520	331310	234410	44945	30258	30633
MDGIVPDIAVGTK	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1	HUM	Acetyl (Protein N-t	0	0	0	42673	55697	31450	0	22967	0
MDGIVPDIAVGTKR	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1	HUM	Acetyl (Protein N-t	12360000	13862000	11289000	1498900	1383000	1586500	121730	324580	143620
MDGIVPDIAVGTKR	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1	HUM	Acetyl (Protein N-t	267150	793970	1370200	0	0	0	0	0	0
MDGPGYGDEEEPLHTILGK	DCAF13; DCAF13; D	Q9NV06; B3KME	DCA13	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
MDGVVTDLITVGLKR	PTBP3; PTBP3	O95758; B1ALY4	PTBP3	HUM	Acetyl (Protein N-t	82484	0	127680	0	0	0	0	0	0
MDINSIKENNR	N/A	N/A	N/A		Deamidation (N)	352690	217940	366060	0	29219	0	0	0	0
MDKNASTFEDVTQVSSAYQK	CTTN	Q14247	SRC8	HUMA	Oxidation (M);Deai	533750	505590	654820	60336	59299	0	0	0	0
MDKNELVQK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	165470000	157380000	179070000	15650000	13294000	12436000	0	0	0
MDKNELVQK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	73971000	89112000	66216000	3064800	2841100	3131400	0	0	0
MDKNELVQK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	9000200	7505900	8745700	556690	707270	616570	0	0	0
MDKNELVQK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	4550500	4552200	4179800	102390	110040	157430	0	0	0
MDKNELVQK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Oxidation (M);Metl	1454700	1271200	2207000	88877	238970	0	0	15662	0
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	9401600	10675000	8830300	4329100	4567000	5004000	41614	80229	76394
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	9418300	9406000	11415000	402500	362590	403700	0	26910	11974
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	6876500	6104000	5860200	23229000	26827000	29113000	1822700	2013800	2004100
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	884790	1115800	883150	0	34736	34328	24908	0	41941
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Acetyl (Protein N-t	0	0	25586000	3023200	2678400	2750600	165820	13675	210410
MDKNELVQKAK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM/	Oxidation (M);Metl	0	1044200	0	0	4645200	4785100	0	604490	0
MDLAAAAEPGAGSQHLEVR	MCM6	Q14566	MCM6	HUM	Acetyl (Protein N-t	2430100	2203200	2034000	0	0	0	0	0	0
MDLAAAAEPGAGSQHLEVRDEVAEK	MCM6	Q14566	MCM6	HUM	Acetyl (Protein N-t	2624000	1729400	1937000	0	0	0	0	0	0
MDLDEQLKILNLR	SUPT5H	O00267	SPT5H	HUM	Oxidation (M)	357460	230400	233320	0	0	0	0	0	0
MDLEKPNYIVPDYMPVVYDK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM/	2 Oxidation (M)	452750	755190	1593600	0	0	0	0	0	0
MDLEKPNYIVPDYMPVVYDK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM/	2 Oxidation (M);De	302720	316770	1685500	0	0	0	0	0	0
MDLFGDLPEPERSPRPAAGK	ILKAP; ILKAP; ILK	Q9H0C8; E9PC05	ILKAP	HUM/	Acetyl (Protein N-t	6807900	5189900	5036000	94474	66523	97274	0	0	32606
MDLSGVKK	RNPS1; RNPS1; RNP	Q15287; H3BTV0	RNPS1	HUM	Acetyl (Protein N-t	0	1002900	520910	0	0	0	0	0	0
MDLTAKELTEEKESAFEFLSSA	MDH1; MDH1; MDH	P40925; B8ZZ51;	MDHC	HUM	Oxidation (M)	2520300	2145400	2924000	0	0	0	0	0	0
MDMGNQHPSISR	BAG5	Q9UL15	BAG5	HUM/	Acetyl (Protein N-t	623140	1376300	0	0	0	0	0	0	0
MDNSGKEAEAMALLAEAER	NAPA; NAPA; NAP/	P54920; M0QZN5	SNAA	HUM/	Acetyl (Protein N-t	0	860950	743520	25076	0	0	0	0	0
MDNYADLSDTELTTLLRR	EMD; EMD; EMD	P50402; F8WEQ1	EMD	HUMA	Acetyl (Protein N-t	3916100	3172700	3297000	0	0	0	0	0	0
MDNYADLSDTELTTLLRR	EMD; EMD; EMD	P50402; F8WEQ1	EMD	HUMA	Acetyl (Protein N-t	683260	780850	896150	0	0	0	0	0	0
MDPELLSMVPR	UCHL3; UCHL3	P15374; A0A087	UCHL3	HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
MDPESER	PBXIP1; PBXIP1; PB	Q96AQ6; Q5T173	PBIP1	HUM	Oxidation (M)	0	0	0	173770	337810	407480	0	0	0
MDPGKDKEGVPQPSGPPAR	ERCC1; ERCC1; ERC	P07992; K7EK97;	ERCC1	HUM	Acetyl (Protein N-t	1643800	1788100	1967200	190750	0	326790	0	131120	0
MDPMNIWDDIITNR	PRKDC	P78527	PRKDC	HUM	2 Oxidation (M)	5349500	2439800	3220400	0	0	0	0	0	0
MDPNTIIEALRGTMDPALR	IPO7; IPO7	O95373; E9PLJ0	IPO7	HUMA	Acetyl (Protein N-t	1839900	1945400	1823600	0	0	0	0	0	0

MDPSGVKVLETAEDIQER	SPTAN1; SPTAN1; S	Q13813; A0A1B0	SPTN1	HUM.	Acetyl (Protein N-t	1035500	879550	1520600	114790	72082	0	0	0	0
MDPSGVKVLETAEDIQERR	SPTAN1; SPTAN1; S	Q13813; A0A1B0	SPTN1	HUM.	Acetyl (Protein N-t	1769400	1626700	1915000	133470	92911	44858	0	0	35380
MDQTSSEIVR	POLR3C; POLR3C	Q9BUJ4; E9PHH9	RPC3	HUMA	Oxidation (M)	617580	522630	416050	0	0	0	0	0	0
MDQYFNQMEK	EIF4G1; EIF4G3; EIF	Q04637; O43432;	IF4G1	HUMA	2 Oxidation (M)	1571900	1365400	1591100	191340	137120	108530	0	0	0
MDQYFNQMEK	EIF4G1; EIF4G3; EIF	Q04637; O43432;	IF4G1	HUMA	2 Oxidation (M);De	0	0	0	0	0	0	0	0	0
MDRGEQGLLR	TPD52	E5RFR7	E5RFR7	HUA	Acetyl (Protein N-t	127560000	64960000	82249000	1272600	1484600	1341900	0	0	0
MDRNVEMFMNIEK	SMARCC1	Q92922	SMRC1	HUM	3 Oxidation (M)	547350	629000	773550	0	0	0	0	0	0
MDRNVEMFMTIEK	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2	HUM	3 Oxidation (M)	415840	970160	887620	0	65311	60079	0	0	0
MDRSGFGEISSPVIR	NUP107; NUP107	P57740; G3V1T4	NU107	HUM.	Acetyl (Protein N-t	0	0	0	0	102650	0	24135	0	23388
MDSAGQDINLNSPNKGLLSDSMTDVPVDTGVAAR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM.	Acetyl (Protein N-t	1951300	0	1851300	0	0	0	0	0	0
MDSAGQDINLNSPNKGLLSDSMTDVPVDTGVAAR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM.	Acetyl (Protein N-t	0	1313400	0	0	0	0	0	0	0
MDSFDEDLARPSGLLAQER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM/	Oxidation (M)	23296000	23276000	21994000	218080	87748	0	30459	19328	0
MDSQGRKVVVCDNGTGFVK	ACTR2; ACTR2; AC	P61160; A0A1B0	ARP2	HUMA	Acetyl (Protein N-t	0	0	0	401670	497250	498780	163810	235160	169940
MDSSREPTLGR	SCGN; SCGN	O76038; Q96P10	SEGN	HUMA	Acetyl (Protein N-t	2159900	1684000	1547400	226340	289550	250430	0	0	0
MDSSSSSSSAAGLGAVDPQLQHFIEVETQKQR	TIMM8A; TIMM8A	O60220; A0A2R8	TIM8A	HUM.	Acetyl (Protein N-t	1573700	0	859920	0	0	0	0	0	0
MDSTANEVEAVK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Oxidation (M);Deat	770220	802650	836060	47483	38294	59237	0	0	0
MDSTANEVEAVK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Oxidation (M)	3869300	2524700	2750500	128760	133430	221920	0	0	0
MDSTANEVEAVKVHSFPTLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Oxidation (M)	8899100	9856000	6828200	587990	387290	379220	0	0	0
MDSTANEVEAVKVHSFPTLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Oxidation (M);Deat	16992000	16281000	17399000	469700	371540	323520	19721	35639	32128
MDSTANEVEAVKVHSFPTLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM/	Oxidation (M);Metl	2132700	2978400	2829900	112110	52784	20465	0	0	0
MDSVEKGAATSVSNPR	CMAS; CMAS	Q8NFW8; F5H296	NEUA	HUM/	Acetyl (Protein N-t	719760	634050	2002300	457650	417720	522180	0	0	0
MDTDLETMDLDQGGEALAPR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	2 Oxidation (M)	5192400	5262100	7268500	450140	424860	322910	0	0	0
MDTLAHVLYYPQKPLVTTR	POLR2B; POLR2B; F	P30876; C9J2Y9;	RPB2	HUMA	Oxidation (M)	1461900	1519000	1449800	0	0	0	0	0	0
MDTPLRR	CCDC86	Q9H6F5	CCD86	HUM	Acetyl (Protein N-t	6342200	7320100	6078100	1368800	994340	1390700	103850	100380	138820
MDTSRVQPIK	RPS28	P62857	RS28	HUMA	Acetyl (Protein N-t	3439800	3549300	3230700	171870	99560	192370	0	0	0
MDTSRVQPIKLAR	RPS28	P62857	RS28	HUMA	Acetyl (Protein N-t	0	0	0	130080	0	154420	0	0	0
MDVERLQEALKDFEK	PPP4R2; PPP4R2; PP	Q9NY27; F8WCA	PP4R2	HUM/	Acetyl (Protein N-t	1145100	983970	0	0	0	0	0	0	0
MDVERLQEALKDFEKR	PPP4R2; PPP4R2; PP	Q9NY27; F8WCA	PP4R2	HUM/	Acetyl (Protein N-t	2312200	4114300	3850600	0	0	0	0	0	0
MDVFLMIR	ELOB; ELOB	Q15370; A0A0B4	ELOB	HUMA	Acetyl (Protein N-t	137460	295500	311340	0	16828	13661	0	0	0
MDVFMKGLSMAK	SNCB; SNCB	Q16143; G4Y816	SYUB	HUMA	Acetyl (Protein N-t	0	0	0	537290	577700	475650	0	0	0
MDVGELLSYQPNRGTK	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1	HUM	Acetyl (Protein N-t	0	0	0	141210	137300	232000	69013	41620	61287
MDVHDLFR	DDX52; DDX52; DD	Q9Y2R4; A0A087	DDX52	HUM	Acetyl (Protein N-t	1898500	1284500	1418700	0	72561	48801	0	0	0
MDWVMKHNGPNDASDGTVR	HNRNPH3	P31942	HNRH3	HUM	Acetyl (Protein N-t	10637000	6666500	10237000	177510	179690	200880	0	0	0
MDWVMKHNGPNDASDGTVR	HNRNPH3	P31942	HNRH3	HUM	Acetyl (Protein N-t	4904400	7600500	7734000	231030	248580	154870	0	0	0
MEAAHLLPAADVLR	ATP2A3	Q93084	AT2A3	HUM	Acetyl (Protein N-t	7948700	8232800	8128700	117560	83572	50479	44266	13303	52157
MEAIAKYDFK	GRB2; GRB2; GRB2	P62993; J3QRL5;	GRB2	HUMA	Acetyl (Protein N-t	1316600	741270	623700	175080	161430	226740	0	0	0
MEANGLGPQGFPELKNDTFLR	UROD; UROD; UROI	P06132; A0A1B0	DCUP	HUM/	Acetyl (Protein N-t	1365500	1579800	4195800	0	0	0	0	0	0
MEAPLRPAADILR	MAP4K5; MAP4K5;	Q9Y4K4; G3V3V	M4K5	HUMA	Acetyl (Protein N-t	0	0	0	0	0	131780	0	0	0
MEAVLTEELDEEEQLLRR	OTUD6B; OTUD6B;	Q8N6M0; A0A08	OTU6B	HUM	Acetyl (Protein N-t	1879100	763610	1363300	0	0	0	0	0	0
MEDEQLKVWDVIGR	CCS; CCS; CCS	O14618; J3KNF4;	CCS	HUMAN	Oxidation (M)	1377100	0	0	0	0	0	0	0	19954
MEDIKESIETMR	TMED1; TMED1; TM	Q13445; K7EQ63;	TMED1	HUM	2 Oxidation (M)	1365400	1723700	1197200	36664	0	0	0	0	0
MEDLDQSPLVSSSDSPPRPQPAFK	RTN4	Q9NQC3	RTN4	HUMA	Acetyl (Protein N-t	16884000	36449000	9142200	1513200	1224700	964930	1101100	528350	624120
MEDMNEYSNIEEFAEGSKINASK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Acetyl (Protein N-t	1533300	866580	1203100	0	0	0	0	0	0
MEDSMDMDMSPLRPQNYLFGCELK	NPM1; NPM1; NPM1	P06748; A0A7I2	NPM	HUMA	Acetyl (Protein N-t	10475000	15764000	8587200	0	20481	0	0	0	0
MEDTEPFSAELLSAMMR	GNAO1; GNAO1; GN	P09471; H3BTM2	GNAO	HUM/	3 Oxidation (M)	0	1902200	2689900	0	0	0	0	0	0
MEDYLQLPDDYDTR	YLPM1; YLPM1	P49750; F8VU51	YLPM1	HUM	Oxidation (M)	842600	510040	478670	0	0	0	0	0	0
MEEADRILIHSLR	CCDC22	O60826	CCD22	HUM	Acetyl (Protein N-t	833020	817380	714010	0	27149	67455	0	0	6972.3
MEEANIQPNR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Oxidation (M)	2446100	2766500	3374300	0	0	63559	0	0	16222
MEEANIQPNR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Oxidation (M);Deat	1074000	820150	922700	0	0	0	0	0	0
MEEANIQPNRVTYQR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Oxidation (M)	1626100	2082000	1968900	96667	0	0	0	0	0
MEEANIQPNRVTYQR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Oxidation (M);Deat	426430	377130	0	0	0	0	0	0	0
MEEASEGGGNDRVR	VAMP8; VAMP8	Q9BV40; B8ZZT4	VAMP8	HUM	Acetyl (Protein N-t	2766100	3139700	2715000	630230	629440	404160	0	0	0
MEEDPDDVPHGHITSLAVK	NAA10; NAA10; NA	P41227; F8W808;	NAA10	HUM	Oxidation (M)	1676500	1445100	0	0	0	0	0	0	0
MEEDPDDVPHGHITSLAVKR	NAA10; NAA10; NA	P41227; F8W808;	NAA10	HUM	Oxidation (M)	474280	527100	696860	0	0	0	0	0	0
MEEDQELERK	POLR1D; POLR1D; I	P0DPB6; P0DPB5	RPAC2	HUM	Acetyl (Protein N-t	568760	553070	751520	0	0	84603	0	0	0
MEEECRVLSIQSHVIR	PDXK; PDXK	O00764; A8MV33	PDXK	HUM/	Acetyl (Protein N-t	915080	0	773210	69622	34802	0	44596	20465	0
MEEESGAPGVPSGNGAPGPK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUN	Oxidation (M);Deat	1658100	1235200	0	0	105560	0	0	0	0
MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGK	PSMD2; PSMD2; PST	Q13200; F8WBS8	PSMD2	HUM	Acetyl (Protein N-t	13713000	12160000	13328000	817700	618220	801480	0	55162	45895
MEEIEGFR	DDX56; DDX56; DD	Q9NY93; H7C3E5	DDX56	HUM	Oxidation (M)	408890	561610	430860	0	0	15186	0	0	0
MEEIKGRSIEMNGTLEDQLSHLKQYER	ACTN4; ACTN4; AC	O43707; E5GX52;	ACTN4	HUM	2 Oxidation (M);De	1028300	489850	0	0	0	0	0	0	0
MEEIVEGCTGALHILAR	JUP; CTNNB1; CTN	P14923; P35222; ,	PLAK	HUMA	Oxidation (M)	0	0	1043900	22886	0	0	0	0	0
MEELHNQEMQK	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUM	2 Oxidation (M)	793570	623880	736640	40796	0	38886	0	0	0
MEELHNQEVQK	NONO; NONO; NON	Q15233; A0A7I2	NONO	HUM	Oxidation (M)	0	5180700	6448900	164370	0	0	0	0	0
MEELHNQEVQKR	NONO; NONO; NON	Q15233; A0A7I2	NONO	HUM	Oxidation (M)	132240	646810	689210	67655	291350	0	0	0	0
MEELLRR	FN3KRP; MROH1; N	Q9HA64; Q8NDA	KT3K	HUMA	Acetyl (Protein N-t	0	0	3456100	386380	0	0	0	0	0
MEESEPERKR	DDX41; DDX41; DD	Q9UJV9; D6RD33	DDX41	HUM	Acetyl (Protein N-t	263880	387600	0	0	171510	0	0	0	0
MEESFSSK	TMPO; TMPO; TMPO	P42167; G5E972;	LAP2B	HUM	Oxidation (M)	4878400	6507600	5913000	118200	103560	167140	0	0	0
MEETPTEYLQR	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1	HUM	Oxidation (M)	1413900	1286000	1230000	0	0	0	0	0	0
MEFGTAGLR	PGM2; PGM2; PGM2	Q96G03; E9PD70	PGM2	HUM/	Oxidation (M)	3941000	3857000	3953400	599660	606230	679840	27178	28447	26151
MEGAKPTLQLVYQAVQALYHDPDPSGK	TNPO3; TNPO3	Q9Y5L0; C9J7E5	TNPO3	HUM	Acetyl (Protein N-t	101160	0	41294	0	0	0	0	0	0
MEGAKPTLQLVYQAVQALYHDPDPSGKER	TNPO3; TNPO3	Q9Y5L0; C9J7E5	TNPO3	HUM	Acetyl (Protein N-t	330580	0	392060	0	0	0	0	0	0
MEGDAVEAIVEESETFIKGKER	CTCF; CTCF; CTCF;	P49711; A0A2R8	CTCF	HUMA	Acetyl (Protein N-t	274690	0	252060	0	0	0	0	0	0
MEGLDDGPDFLSEEDRGLK	SNX6; SNX6; SNX6;	Q9UNH7; A0A0A	SNX6	HUMA	Acetyl (Protein N-t	0	0	1952000	35162	40228	31125	0	0	0
MEGPLSVFGDR	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA	HUMA	Acetyl (Protein N-t	1030700	1016100	1020300	85205	79036	83099	14888	0	0
MEGPLSVFGDRSTGETIR	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA	HUMA	Acetyl (Protein N-t	1133500	5977600	4515300	270580	145240	253220	0	0	43395
MEGQSVEELLAKAEQDEAEKLQR	RRS1	Q15050	RRS1	HUMA	Acetyl (Protein N-t	2556100	0	2153600	0	0	0	0	0	0
MEGSGEQPGPQPQHPGDHR	TRMT6	Q9UJA5	TRM6	HUM/	Acetyl (Protein N-t	3030600	2377200	3074400	203860	251550	0	0	0	0
MEGVEEKKK	RPL7	P18124	RL7	HUMAN	Acetyl (Protein N-t	626860	483580	630690	81677	71476	116850	0	0	0
MEGVEEKKK	RPL7	P18124	RL7	HUMAN	Acetyl (Protein N-t	2006800	3023100	1570700	194790	0	0	0	0	0
MEHFDASLSTYFK	ELOVL5; ELOVL5	Q9NYP7; A0A0A	ELOV5	HUM	Acetyl (Protein N-t	799560	686540	943920	0	0	0	0	0	0
MEHVTEGSWESLPVPLHPQVLGALR	DDX55; DDX55; DD	Q8NHQ9; F5H735	DDX55	HUM	Acetyl (Protein N-t	0	332550	589960	0	0	0	0	0	0
MEIPVPVQPSWLRR	HSPB6; HSPB6; HSP	O14558; A0A1X7	HSPB6	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	113360	69913	108240
MEKEETTR	AHNAK; AHNAK; A	Q09666; E9PQE3;	AHNK	HUM/	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MEKENQKLQASENDLLNKR	TBC1D1; TBC1D1; T	Q86TI0; H0Y8P0;	TBCD1	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MEKTELIQK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Acetyl (Protein N-t	101980000	86287000	83248000	7683600	9685000	10242000	153720	100570	0
MEKTELIQK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Acetyl (Protein N-t	8224000	6782100	7826200	0	198550	907330	0	0	0
MEKTELIQKAK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Acetyl (Protein N-t	1387000	1237900	2058800	5165000	5961100	6450400	1389200	1131400	1527500
MEKTELIQKAK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Acetyl (Protein N-t	1264400	1953400	2103700	0	0	0	0	0	0
MEKTELIQKAK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Acetyl (Protein N-t	11751000	10955000	13359000	2208400	1886600	2027600	0	262260	0
MEKTLETVPLER	HNRNPA2B1; HNRN	P22626; A0A7I2	ROA2	HUMA	Acetyl (Protein N-t	1878900	2165000	1774000	149900	149930	166840	0	0	0
MEKTLETVPLER	HNRNPA2B1; HNRN	P22626; A0A7I2	ROA2	HUMA	Acetyl (Protein N-t	2465000	2422600	2775400	1892000	1772300	1838900	45892	52850	67896
MEKTLETVPLERK	HNRNPA2B1; HNRN	P22626; A0A7I2	ROA2	HUMA	Acetyl (Protein N-t	0	0	0	273010	327310	318680	73781	0	0
MELERPGGNEITR	FGA	P02671	FIBA	HUMA	Oxidation (M)	2814700	3033700	2243700	151040	167270	136390	127020	124300	111270
MELERPGGNEITR	FGA	P02671	FIBA	HUMA	Oxidation (M);Deat	2562200	2081100	2342200	147420	0	151560	0	0	0
MELEVRR	ALDH3A2; ALDH3A	P51648; A0A5F9	AL3A2	HUM	Acetyl (Protein N-t	6524700	0	5761700	514560	508730	0	0	0	0
MELFLAGR	DCXR; DCXR; DCXI	Q7Z4W1; J3KRZ4	DCXR	HUM/	Acetyl (Protein N-t	0	0	0	31264	32899	28905	0	0	0
MELITILEK	KPNB1; KPNB1	Q14974; J3QR48	IMB1	HUMA	Acetyl (Protein N-t	1669200	1980000	2602000	0	0	0	0	24290	0
MELKADQLYK	PDHA1; PDHA2; PDI	P08559; P29803;	ODPA	HUM/	Oxidation (M)	0	0	0	0	0	0	0	0	0
MELLGEYVGQEGKPQK	GON7	Q9BXV9	GON7	HUMA	Acetyl (Protein N-t	831090	712040	807720	0	0	0	0	0	0
MELLGEYVGQEGKPQKLR	GON7	Q9BXV9	GON7	HUMA	Acetyl (Protein N-t	1073900	861340	1079800	125980	100580	58534	74387	40152	55606
MELSDANLQTLTEYLKK	CSE1L	P55060	XPO2	HUMA	Acetyl (Protein N-t	9844200	13987000	8166800	0	0	0	0	0	0
MELSDANLQTLTEYLKK	CSE1L	P55060	XPO2	HUMA	Acetyl (Protein N-t	531590	108000	98849	0	0	0	0	0	0
MELSDANLQTLTEYLKK	CSE1L	P55060	XPO2	HUMA	Acetyl (Protein N-t	0	1099000	1384900	0	0	0	0	0	0
MEMEKEFEQIDK	PTPN1	P18031	PTN1	HUMA	Acetyl (Protein N-t	2229300	2142900	2211400	72399	196090	24247	0	0	0
MEMELDYAEDATER	GPATCH8; GPATCH	Q9UKJ3; K7EKU	GPTC8	HUM	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
MEMKKKINLELR	ANP32E; ANP32E; A	Q9BTT0; Q5TB19	AN32E	HUM	Acetyl (Protein N-t	0	0	0	595960	507550	671350	29228	72159	0
MEMKQAIELVESGGMGK	SLC9A1	P19634	SL9A1	HUM	3 Oxidation (M);M	1152000	587750	649500	0	0	0	0	0	0
MENGAVYSPTTEEDPGPARGPR	CMTM6	Q9NX76	CKLF6	HUM	Acetyl (Protein N-t	1546100	1701600	1088600	0	178290	222450	0	0	0
MENILSGNPLLNLTGPSQPQANFK	CWC15	Q9P013	CWC15	HUM	Oxidation (M)	2235200	2013300	1795600	0	0	0	0	0	0
MENILSGNPLLNLTGPSQPQANFK	CWC15	Q9P013	CWC15	HUM	Oxidation (M);Deat	782150	771470	746220	0	0	0	0	0	0
MENILSGNPLLNLTGPSQPQANFK	CWC15	Q9P013	CWC15	HUM	Oxidation (M);3 De	0	0	255010	0	0	0	0	0	0
MEPENKYLPELMAEK	KHDRBS1	Q07666	KHDR1	HUM	2 Oxidation (M);De	4760000	5489800	5606700	48230	130120	93756	0	0	0
MEPEQMLEGQTQVAENPHSEYGLTDNVER	DPY30	Q9C005	DPY30	HUM	Acetyl (Protein N-t	6509800	11407000	9547100	106650	88107	0	0	0	0
MEPFTNDRLQLPR	LNPEP	Q9UIQ6	LCAP	HUMA	Acetyl (Protein N-t	335840	305130	428670	42668	0	0	0	0	0
MEPPASKVPEVPTAPATDAAPK	SEPTIN9; SEPTIN9	Q9UHD8; K7EJ51	SEPT9	HUM/	Oxidation (M)	4328400	2698600	3434600	131550	92664	120490	67492	19060	0
MEQLNLADSGLVGKEARR	PUF60; PUF60; PUF	E9PMU7; E9PL19	E9PMU7	HUM	Acetyl (Protein N-t	1881400	0	0	0	0	0	0	0	0
MEQPGAAASGAGGGSEEPGGGRSNKR	DIAPH2; DIAPH2; DI	O60879; K4D095;	DIAP2	HUM/	Acetyl (Protein N-t	0	0	0	0	479240	516240	0	0	57902
MEQVNELKEK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1	HUMA	Acetyl (Protein N-t	3006900	3280700	3737100	69174	59664	0	0	0	11377
MEQVNELKEKGNK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1	HUMA	Acetyl (Protein N-t	3134900	2433800	1710600	0	0	240110	0	0	0
MEQVNELKEKGNK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1	HUMA	Acetyl (Protein N-t	4001300	3615400	4383200	432090	435680	467190	0	32245	0
MERARREGWNSNEAPPPR	TPM4	A0A2R8YE05	A0A2R8YE05	2 Methyl (KR) 2 D		2911700	0	0	0	0	0	0	0	0
MEREKEQFR	HNRNPA2B1; HNRN	A0A7I2V4N1; A0	A0A7I2V4N1	Acetyl (Protein N-t		36584000	7460800	44263000	5941000	7201000	6623100	217080	241980	0
MEREKEQFRK	HNRNPA2B1; HNRN	A0A7I2V4N1; A0	A0A7I2V4N1	Acetyl (Protein N-t		61719000	51877000	19411000	0	9317100	4003600	0	0	0
MERRMQLVKK	MSL1; MSL1; MSL1	Q68DK7; J3KSZ8	MSL1	HUMA	Oxidation (M);2 M	1655200	1513800	1694800	47948	39523	29532	32822	23937	0
MESALDQLK	TALDO1; TALDO1;	P37837; E9PM01;	TALDO	HUM	Oxidation (M)	4110800	5821500	2235000	110030	0	39905	0	0	0
MESGLSDVTK	THEM6; THEM6	Q8WUY1; H0YAI	THEM6	HUM	Oxidation (M)	610500	599010	958760	32538	33589	64112	0	0	0
MESGLSDVTKDQ	THEM6; THEM6	Q8WUY1; H0YAI	THEM6	HUM	Oxidation (M)	1626200	1334300	1704900	188790	168940	168990	0	0	0
MESLETALR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Oxidation (M)	1298000	1056300	1133500	0	0	0	0	0	0
MESMNRPYTSLVPPLSPQPK	RAPH1; RAPH1	Q70E73; C9K0J5	RAPH1	HUM	2 Oxidation (M)	1235100	903340	1041500	59967	46357	52549	0	0	0
MESPIPILPLPTPDAETEK	SEPTIN5; SEPTIN5;	Q99719; C9JM82;	SEPT5	HUM/	Oxidation (M)	363940	440350	398780	0	0	0	0	0	0
MESPIPILPLPTPDAETEKLIR	SEPTIN5; SEPTIN5;	Q99719; C9JM82;	SEPT5	HUM/	Oxidation (M)	871890	1508300	1739900	0	0	0	0	0	0
MESQLSASKPTGGLPETAR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Oxidation (M)	1403200	1479200	1420300	0	0	21186	0	0	0

MESYHKPDQQK	TKT; TKT; TKT; TK'	P29401; F8WAX4	TKT	HUMAN	Acetyl (Protein N-t	0	929990	812390	0	0	0	0	0	0
MESYHKPDQQKLQALKDTANR	TKT; TKT; TKT; TK'	P29401; F8WAX4	TKT	HUMAN	Acetyl (Protein N-t	124200	2110500	2704400	0	0	0	0	0	0
METASELGREEEDDVDLELR	XAB2	Q9HCS7	SYF1	HUMA	Oxidation (M)	1018000	496790	1971800	0	0	20648	0	0	0
METEQPEETFPNTETNGEFGKRPAEDMEEEQAFKR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Acetyl (Protein N-t	0	57940000	0	0	8283800	0	0	0	815930
METERLVLPPPDPLDLPLR	SKIV2L; SKIV2L; SK	Q15477; B4E0B4;	SKIV2	HUM	Acetyl (Protein N-t	1922900	199260	1796600	0	0	0	0	0	0
METPSQRR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Acetyl (Protein N-t	1204200	1137800	0	869220	719880	749960	0	0	0
METSALKQQEQPAATK	RFC5	P40937	RFC5	HUMA	Acetyl (Protein N-t	2147700	792730	2168700	0	33324	42783	0	0	0
MEVAEPSSPTEEEEEEEEHSAEPRPR	BABAM1; BABAM1	Q9NWV8; M0QX	BABA1	HUM	Acetyl (Protein N-t	4871300	4618300	5305700	747360	832630	1015600	0	0	0
MEVDAPGVDGRDGLR	C4orf3	Q8WVX3	CD003	HUM	Acetyl (Protein N-t	414680	334070	796510	34898	74522	70742	0	0	0
MEVDAPGVDGRDGLRER	C4orf3	Q8WVX3	CD003	HUM	Acetyl (Protein N-t	2165200	1603100	1318700	869420	814580	1039700	206220	0	194180
MEVKPPPGRPQPDSGR	HNRNPA3; HNRNP/	P51991; A0A7Z\	ROA3	HUM	Acetyl (Protein N-t	33999000	35897000	13490000	663210	1830400	2506300	135440	265020	119350
MEVQEQEEDISSLIR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	5875000	5528000	6586400	0	0	0	0	0	0
MEVRAEEPK	N/A; N/A; N/A; N/A;	Q5PR19; A8MV7	YI024	HUM	Oxidation (M);Met	571220	0	0	0	0	0	0	10235	0
MEYERRGGRGDR	RBM10	P98175	RBM10	HUM	Acetyl (Protein N-t	0	320360	0	0	0	0	0	0	0
MFADYLAHESR	COPE; COPE; COPE	O14579; M0R061	COPE	HUM	Oxidation (M)	1234500	1217500	1837000	0	0	0	0	0	0
MFDLETNEHVKK	DPP6; DPP6; DPP6	P42658; E9PDL2;	DPP6	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
MFDVGGQR	GNAS; GNAI3; GNA	Q5JWF2; P08754;	GNAS1	HUM	Oxidation (M)	4803600	4229200	3671300	90492	112160	93360	0	0	0
MFDYTDDPEGPVMPGSHSVER	NCBP1	Q09161	NCBP1	HUM	2 Oxidation (M)	9403900	8206100	8875000	0	0	148340	0	0	0
MFEDPETTR	EIF3E; EIF3E; EIF3E	P60228; A0A161	EIF3E	HUM	Oxidation (M)	3340200	3552500	3598100	205520	212090	191290	0	0	0
MFEELGQR	HSPH1; HSPH1	Q92598; A0A0A0	HS105	HUM	Oxidation (M)	3401500	4292200	2973700	0	0	0	0	0	0
MFEIDYSR	GLB1; GLB1; GLB1;	P16278; C9JF15;	BGAL	HUM	Oxidation (M)	869110	0	441460	0	0	0	0	0	0
MFEIVFEDPKIPGEK	EPRS1	P07814	SYEP	HUM	Oxidation (M)	2153100	1688600	2423800	13991	0	0	0	0	0
MFESFIESVPLLK	PRKAR2A; PRKAR2	P13861; H7C4A9;	KAP2	HUM	Oxidation (M)	336010	285890	251010	0	0	0	0	0	0
MFETMAIEIEQLLAR	GOSR1; GOSR1; GO	O95249; B4DQA8	GOSR1	HUM	2 Oxidation (M)	1443000	1018700	1182500	0	0	0	0	0	0
MFGGPGTASR	VIM; VIM; VIM; VIN	P08670; B0YJC4;	VIME	HUM	Oxidation (M)	0	0	674860	1030600	679340	494070	0	0	0
MFGGPGTASRPSSSR	VIM; VIM; VIM; VIN	P08670; B0YJC4;	VIME	HUM	Oxidation (M)	0	364810	0	213060	167780	183540	0	0	0
MFGIDRDAIAQAVR	TKT; TKT	P29401; A0A0B4J	TKT	HUM	Oxidation (M)	4793300	4920100	1148400	82476	91602	0	0	0	0
MFGIPVVVAVNAFK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Oxidation (M)	1252900	1343900	1174700	0	0	0	0	0	0
MFGIPVVVAVNAFK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Oxidation (M);Deai	348540	233840	448350	0	0	0	0	0	0
MFGMVLEK	CSE1L	P55060	XPO2	HUM	2 Oxidation (M)	2856400	0	0	0	0	0	0	0	0
MFGTESSLSMFLNTLTPK	ST7; ST7; ST7	B7Z4L1; G3XAH9	B7Z4L1	HUM	Acetyl (Protein N-t	1201500	1613200	1596900	0	0	0	0	0	0
MFHGIPATPGIGAPGNKPELYEEVK	VPS28; VPS28; VPS	Q9UK41; E9PQR	VPS28	HUM	Acetyl (Protein N-t	1553000	0	0	0	0	0	0	0	0
MFHSSAMVNSHRK	ERAP2; ERAP2	Q6P179; D6RGW	ERAP2	HUM	Acetyl (Protein N-t	1784900	0	0	0	0	0	0	0	0
MFIGGLSWDTSK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Oxidation (M)	0	1196700	1196400	0	0	0	0	0	0
MFIGGLSWDTSKK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Oxidation (M)	1241600	1565700	1066900	0	0	0	0	0	0
MFIGGLSWDTSKKDLTEYLSR	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL	HUM	Oxidation (M)	851310	433900	741070	0	0	0	0	0	0
MFIGGLSWDTTK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUM	Oxidation (M)	2720900	2748600	2673700	17295	19741	20005	0	0	0
MFIGGLSWDTTKKDLKDYFSK	HNRNPD; HNRNPD;	Q14103; H0YA96	HNRPD	HUM	Oxidation (M)	899570	576130	1356400	0	0	0	0	0	0
MFILDR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Oxidation (M)	2179100	1919100	2553000	0	30215	0	0	0	0
MFILQSK	PFDN1; PFDN1	O60925; E5RGS4	PFD1	HUM	Oxidation (M)	2474900	2282600	2357800	0	0	0	0	0	0
MFKFHQMKHIFEILDKMR	MGAT4C; MGAT4C;	Q9UBM8; F8VTY	MGT4C	HUM	3 Oxidation (M);2 I	0	0	0	0	0	0	396960	869280	353910
MFKQFNKLTEDKADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Oxidation (M);Deai	4338600	4742500	5077700	0	0	0	0	0	0
MFKQFNKLTEDKADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Oxidation (M)	992310	1165900	1240000	0	0	0	0	0	0
MFLQYYLNEQGDRVYTLK	NOP10; NOP10	Q9NPE3; H0YM6	NOP10	HUM	Oxidation (M)	1870600	0	3792800	0	0	0	0	0	0
MFLVNSFLK	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1	HUM	Acetyl (Protein N-t	666180	433600	548320	0	0	0	0	0	0
MFLVNSFLK	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1	HUM	Acetyl (Protein N-t	353130	0	290590	0	0	0	0	0	0
MFLYADNEDR	VTA1; VTA1; VTA1	Q9NP79; Q5TGM	VTA1	HUM	Oxidation (M)	716420	502570	706820	0	0	0	0	0	0
MFLYNLTLQR	SF3B3; SF3B3; SF3B	Q15393; H3BMB(	SF3B3	HUM	Oxidation (M)	0	677380	0	0	0	42551	31240	19062	26151
MFNAENGK	TALDO1	P37837	TALDO	HUM	Oxidation (M);2 De	4015200	3479000	3182000	148150	219290	229270	0	0	0
MFNAENGK	TALDO1	P37837	TALDO	HUM	Oxidation (M);Deai	2562300	2170100	2493500	518020	424380	412920	0	0	0
MFNGEKINYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI	HUMA	Oxidation (M);2 De	5215700	3393700	3908900	89289	150440	0	0	0	0
MFNGEKINYTEGR	GPI; GPI; GPI; GPI; C	P06744; K7ELR7;	G6PI	HUMA	Oxidation (M);Deai	3055600	10192000	9529100	247760	349880	1296200	0	0	0
MFQDIGVSK	CUL1; CUL1; CUL1;	Q13616; A0A590	CUL1	HUM	Acetyl (Protein N-t	389930	0	0	0	0	0	0	0	0
MFQVPDSEGGRAGSR	JPT2; JPT2; JPT2; JP	Q9H910; B4E1P3	JUPI2	HUM	Acetyl (Protein N-t	0	0	0	597890	483650	296520	0	64448	0
MFRIEGLAPK	TOMM5; TOMM5	Q8N4H5; F8W8Z5	TOM5	HUM	Acetyl (Protein N-t	3027800	2730800	0	0	0	0	0	25376	0
MFRNQYDNDVTVWSPQGR	PSMA1; N/A	P25786; B4DEV8	PSA1	HUM	Acetyl (Protein N-t	1005300	1691800	701360	50275	31474	0	0	0	0
MFSDIYK	TPT1P8; TPT1; TPT1	Q9HAU6; P13693	TCTP8	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MFSFNMFDHPIPR	UFD1; UFD1	Q92890; C9JZG3	UFD1	HUM	Acetyl (Protein N-t	1287800	2006000	2156700	52108	36962	32082	0	15131	0
MFTILER	EXOC3; EXOC3; EX	O60645; H0Y995;	EXOC3	HUM	Oxidation (M)	331490	0	386810	0	0	0	0	0	0
MFTQQQPQELAR	KCTD12	Q96CX2	KCD12	HUM	Oxidation (M)	6979000	5770800	5555900	0	105670	176430	0	0	0
MFVGGLSWDTSK	HNRNPAB; HNRNP;	Q99729; D6R9P3;	ROAA	HUM	Oxidation (M)	5596200	5044600	5599800	0	0	0	0	0	0
MFVGGLSWDTSKK	HNRNPAB; HNRNP;	Q99729; D6R9P3;	ROAA	HUM	Oxidation (M)	2051200	2900200	2584300	0	0	0	0	0	0
MFVGGLSWDTSKKDLKDYFTK	HNRNPAB; HNRNP;	Q99729; D6R9P3;	ROAA	HUM	Oxidation (M)	1239000	1418500	1380000	0	0	0	0	0	0
MFVGQVPR	CELF1; CELF1; CEL	Q92879; G5EA30;	CELF1	HUM	Oxidation (M)	1201800	1483800	1429400	0	0	0	0	0	0
MFVLDEADEMLSR	EIF4A1; EIF4A2; EIF	P60842; Q14240;	IF4A1	HUM	2 Oxidation (M)	21625000	17997000	19651000	223380	168090	178010	0	19983	17984
MFYLLK	BPNT2; NLRP9; BPN	Q9NX62; Q7RTR(	IMPA3	HUM	Oxidation (M)	1429300	1872900	1830400	0	30573	0	0	0	0
MGAGEKKNACSVQYRR	DOCK4; DOCK4; DC	Q8N1I0; H0Y599;	DOCK4	HUM	Oxidation (M);2 M	453790	768650	371630	0	0	0	0	0	0
MGAGLGHGMDR	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	5367600	3636200	4157000	427980	445740	468260	0	72501	74882
MGAGLGHGMDRVGSEIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	24922000	7885800	21621000	973680	1061700	1197900	146870	565020	173650
MGAGMGFGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	102650000	85953000	91216000	5554200	5318000	6283200	914170	858150	853060
MGAGMGFGLERMAAPIDR	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	3 Oxidation (M)	2239600	3051100	0	617440	540260	64766	0	0	0
MGAGMGFGLERMAAPIDR	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	3 Oxidation (M);M	2984400	2109600	2856000	0	141900	0	46994	0	0
MGAIPVMIPAQSK	CXADR	P78310	CXAR	HUM	2 Oxidation (M)	502690	1029400	0	74605	56958	67177	0	0	0
MGAIPVMIPAQSKDGSIV	CXADR	P78310	CXAR	HUM	2 Oxidation (M)	379160	470850	682890	169050	218110	141220	24018	0	0
MGAMAKPDCIITCDGK	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	2 Oxidation (M)	1239400	976530	1139800	20742	28661	0	0	0	0
MGAMAKPDCIITCDGKNLTIK	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	2 Oxidation (M)	885920	700900	921860	0	0	0	0	0	0
MGANNLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	Oxidation (M)	6502900	4895200	9027800	1642400	2363900	1444900	0	66865	0
MGANNLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	Oxidation (M);Deai	17796000	39351000	41999000	2181800	2416700	2796400	0	0	0
MGANNLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	Oxidation (M);2 De	3124100	4094800	2904500	58750	0	0	0	0	0
MGANNLERMGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M);2 I	4837900	5343500	5447800	271510	357940	163750	12863	0	9612.4
MGANNLERMGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M);De	2223700	2139500	2613600	725910	970920	1651100	0	0	0
MGANSLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	Oxidation (M)	36567000	10431000	26317000	7394700	3459900	4520500	120260	98633	94118
MGANSLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	Oxidation (M);Deai	103090000	129410000	133260000	10756000	8869200	7485100	0	14920	0
MGANSLERMGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	591950	0	0	814380	923400	851960	0	0	0
MGANSLERMGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M);De	3018800	3854200	0	1495600	1659600	1295100	113740	130070	0
MGANSLERMGPAMGPALGAGIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	3 Oxidation (M);De	6127800	6240500	7374000	6010900	6460600	4442100	981520	606920	686310
MGANSLERMGPAMGPALGAGIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	3 Oxidation (M)	175510	0	0	1754700	1705500	1683900	0	109410	77669
MGANSLERMGPAMGPALGAGIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M);M	0	0	0	0	0	0	0	0	188890
MGATPTPFK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Oxidation (M)	2490800	2483700	2521800	146980	162410	176280	33947	0	0
MGATPTPFKSTGDIAGTVVPETNKEPR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Oxidation (M)	0	0	0	479910	317310	0	72283	0	58770
MGAYHTIELEPNRQFTLAK	PELO	Q9BRX2	PELO	HUMA	Methyl (KR);Deam	982850	0	0	39680	28467	0	0	0	0
MGDHLTNLHR	FTL	P02792	FRIL	HUMA	Oxidation (M)	7038200	3749500	6572000	2145400	2379100	222620	0	0	0
MGDTHTGLALVYAK	VWA1; VWA1	Q6PCB0; J3QLP3	VWA1	HUM	Oxidation (M)	637580	619730	581930	32344	28596	23238	0	13668	0
MGESDDSILR	RPS21; RPS21	P63220; Q8WVC(	RS21	HUMA	Oxidation (M)	34345000	40185000	44937000	3489500	3127600	3207900	0	0	0
MGESDDSILRLAK	RPS21; RPS21	P63220; Q8WVC(	RS21	HUMA	Oxidation (M)	0	0	0	691790	607930	568930	48463	43812	30646
MGFNIGVR	TRAPPC3; TRAPPC	O43617; A6NKE1	TPPC3	HUM	Oxidation (M)	922230	0	0	0	0	0	0	0	0
MGFTEVTPVTGASLR	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD	HUM	Oxidation (M)	5211000	2886200	6016300	364960	387550	416020	0	0	0
MGFTEVTPVTGASLRR	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD	HUM	Oxidation (M)	1874400	1715700	2202600	143210	303250	239720	0	0	0
MGGDIANR	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4	HUM	Oxidation (M)	5776900	7588000	4882000	0	0	192800	0	0	0
MGGEAPELALDPVPQDASTK	BAX	Q07812	BAX	HUMA	Oxidation (M)	0	5514400	5208900	150620	0	218020	0	0	0
MGGEAPELALDPVPQDASTKK	BAX	Q07812	BAX	HUMA	Oxidation (M)	1109600	739020	706820	0	31719	0	0	0	0
MGGEEAEIR	DHX9	Q08211	DHX9	HUM	Oxidation (M)	14966000	13819000	14703000	510610	645270	529630	0	0	0
MGGEEKPIGAGEEKQK	TARS1; TARS1; TAR	P26639; D6RCS6;	SYTC	HUM	Oxidation (M)	520730	0	496130	0	0	0	0	0	0
MGGEEKPIGAGEEKQKEGGK	TARS1; TARS1; TAR	P26639; D6RCS6;	SYTC	HUM	Oxidation (M)	355460	513550	408490	0	16152	0	0	0	0
MGGFGSIIQLYPGGGPVR	TRMT6	Q9UJA5	TRM6	HUM	Oxidation (M)	7378700	5345000	8206600	18298	0	0	0	8649	0
MGGGGAMNMGDPYGSGGQK	SFPQ; SFPQ; SFPQ	P23246; H0Y9K7;	SFPQ	HUM	3 Oxidation (M)	1800500	1914200	1841700	0	0	0	0	0	0
MGGGGAMNMGDPYGSGGQK	SFPQ; SFPQ; SFPQ	P23246; H0Y9K7;	SFPQ	HUM	3 Oxidation (M);De	1198100	1346200	1990900	0	0	0	0	0	0
MGGGSIEVSVPR	FUBP3	Q96I24	FUBP3	HUM	Oxidation (M)	9909000	11078000	7301400	527120	466880	538190	0	0	0
MGGMEGPFGGGMENMGR	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM	HUM	4 Oxidation (M);De	8456900	7794800	8527800	546150	350960	437440	0	0	0
MGGMEGPFGGGMENMGR	HNRNPM; HNRNPM	P52272; M0QYL3	HNRPM	HUM	4 Oxidation (M)	14706000	15530000	14005000	680540	517600	499270	21454	27162	24784
MGGNQLFR	GALNT7; GALNT7; (	Q86SF2; H0YAH3	GALT7	HUM	Oxidation (M)	133700	1155800	1186600	517600	465440	460350	0	24265	27404
MGGNQLFR	GALNT7; GALNT7; (	Q86SF2; H0YAH3	GALT7	HUM	Oxidation (M);Deai	594340	720610	848620	241530	194830	188630	0	0	0
MGHSAPLTNIR	WDR36; WDR36	Q8NI36; A0A0A0	WDR36	HUM	Oxidation (M)	0	0	1742800	0	0	0	0	0	0
MGIGGLDKEFSDIFR	NSF; NSF	P46459; I3L0N3	NSF	HUMA	Oxidation (M)	2535800	2090000	2326600	0	0	0	0	0	0
MGISRDNWHKRR	RPS8; RPS8	P62241; Q5JR95	RS8	HUMAN	Acetyl (Protein N-t	744300	0	0	0	0	0	0	0	0
MGIVGPEFK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	401310	544440	602980	0	0	0	0	0	0
MGIVSDYEKIR	UBA5; UBA5; UBA5	Q9GZZ9; E7EWE	UBA5	HUM	Oxidation (M)	449850	561200	477420	0	35997	16073	0	0	0
MGIYYIPVLGPAPR	NOL10	Q9BSC4	NOL10	HUM	Oxidation (M)	2677600	2833100	3213800	0	13027	0	0	0	0
MGKGDPNK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2	HUM	Acetyl (Protein N-t	3553000	3132400	3383200	277750	254130	288770	0	0	0
MGKIENNER	KCNC2; KCNC2	Q96PR1; A0A3B3	KCNC2	HUM	Acetyl (Protein N-t	0	2563300	0	0	0	0	0	0	0
MGLALSSLNK	SGTA; SGTA; SGTA	O43765; A0A7D2	SGTA	HUM	Oxidation (M)	1062900	1997300	1424400	0	0	0	0	0	0
MGLAMGGGGGASFDR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM	HUM	2 Oxidation (M)	55250000	50552000	42498000	1929800	2157800	2428800	259640	244270	253240
MGLAMGGGGGASFDRAIEMER	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM	HUM	3 Oxidation (M)	14799000	14628000	15160000	804870	733920	743050	107420	0	132940
MGLAMGGGGGASFDRAIEMERGNFGGSFAGSFGGAGGHAPGVAR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM	HUM	3 Oxidation (M);De	3800800	2387400	0	0	0	0	0	0	0
MGLIQTADQLR	PTPN1; PTPN1	P18031; B4DSN5	PTN1	HUM	Oxidation (M)	2012800	1452400	1479000	0	0	0	0	0	0
MGLIQTPDQLR	PTPN2; PTPN2; PTP	P17706; K7EQG9	PTN2	HUM	Oxidation (M)	1077800	1658800	1624400	0	0	0	0	0	0
MGLKDTPTQEDWLVSVLPEGSR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1	HUM	Oxidation (M)	0	0	622530	0	0	0	0	0	0
MGLLAVLR	PGM3; PGM3; PGM3	O95394; A0A494	AGM1	HUM	Oxidation (M)	1965400	1990000	1773600	45074	40774	38102	0	0	0
MGLLLVFPLIQSQSR	HECTD4; HECTD4	J3KPF0; F8VWT9	J3KPF0	HUM	Oxidation (M)	508510	368670	521560	0	0	0	0	0	0
MGLLSPSGIGGVSPR	SAMD4B; SAMD4B;	Q5PRF9; M0QZ2	SMAG2	HUM	Oxidation (M)	1076200	926450	899350	0	0	0	0	0	0
MGLSMER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	2 Oxidation (M)	89576000	65275000	73512000	7451400	7781300	9410700	349870	0	0
MGLSMERMVPAGMGAGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM	HUM	4 Oxidation (M)	591390	743920	765430	5075900	5499500	5306200	677350	522230	523990

MGLVDQLVEPLGPGLKPPEER	HADHA; HADHA; H	P40939; A0A2R8Y	ECHA_HUMA	Oxidation (M)	45765000	40044000	48785000	28288	0	18114	17224	0	0
MGLVDQLVEPLGPGLKPPEER	HADHA; HADHA; H	P40939; A0A2R8Y	ECHA_HUMA	Oxidation (M);Metl	1318100	591830	754130	0	0	0	0	0	0
MGLVMDR	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	52437000	48811000	56537000	2441900	2388100	2460800	203350	173870	215530
MGMYPGVLVPSSR	ARSA; ARSA	P15289; A0A0C4I	ARSA_HUMA	2 Oxidation (M)	810240	0	784380	0	0	0	0	0	0
MGNQVEK	LRATD2	Q96KN1	LRAT2_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MGNTPDSASDNLGFR	SUMF2; SUMF2; SU	Q8NBJ7; J3QT17;	SUMF2_HUM	Oxidation (M)	641250	748350	523610	94001	115360	118340	0	0	0
MGPAIERMGLSMERMVPAGMGAGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	5 Oxidation (M)	0	0	0	1753600	980000	753120	580520	465770	440490
MGPAMGPALGAGIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	173730000	156720000	213390000	11942000	12123000	10803000	1428000	2016700	2041100
MGPAMGPALGAGIERMGLAMGGGGGASFDR	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM_HUN	4 Oxidation (M)	578150	0	0	251630	234780	151130	88455	0	0
MGPGAASGGERPNLK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C_HUM	Oxidation (M)	27129000	22234000	22157000	1468200	542760	733070	43870	59567	166520
MGPGAASGGERPNLK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C_HUM	Oxidation (M);Deai	3196900	2199600	3104300	0	0	0	0	0	0
MGPGATAGGAEK	RAB1A; RAB1A	P62820; E7END7	RAB1A_HUM	Oxidation (M)	2960100	3000600	2165600	390150	445650	395780	0	0	9042.2
MGPGATAGGAEKSNVK	RAB1A; RAB1A	P62820; E7END7	RAB1A_HUM	Oxidation (M)	0	672030	0	0	344330	480850	0	31960	0
MGPGIGAILER	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2_HUM	Oxidation (M)	4807700	4389400	4081600	176600	157860	175430	0	28174	26497
MGPLGLDHMASSIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	175650000	164460000	128940000	6074500	6704700	6910600	1353600	1119100	1291700
MGPLGLDHMASSIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	Oxidation (M)	2071000	1712800	1761600	0	0	0	0	0	0
MGPNIYELR	NIPSNAP1; NIPSNAI	Q9BPW8; C9JDV	NIPS1_HUMA	Oxidation (M)	5233000	4807900	4529800	530730	555900	598530	105370	157190	144470
MGPPVGGHR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL_HUM	Oxidation (M)	12103000	4233600	4790400	3427200	388350	2169200	0	25984	0
MGPSGGEGMEPERR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	2 Oxidation (M)	8312300	8415000	9231700	785360	945420	1082700	83760	0	70305
MGPSSAVPGDSMQLAITGGNEEGFFTTR	FBLN1	B1AHL2	B1AHL2_HUI	2 Oxidation (M);De	1302100	1723200	779180	0	0	0	0	0	0
MGPSSAVPGDSMQLAITGGNEEGFFTTR	FBLN1	B1AHL2	B1AHL2_HUI	2 Oxidation (M)	1421400	0	1940500	30317	0	0	0	0	0
MGPTELLIEMEDWKGDKVK	FGB; FGB	P02675; D6REL8	FIBB_HUMA	2 Oxidation (M)	2674000	3732100	2600000	160620	140660	160370	0	0	130500
MGPTELLIEMEDWKGDKVK	FGB; FGB	P02675; D6REL8	FIBB_HUMA	2 Oxidation (M);M	0	1250100	0	92215	54488	0	0	31706	0
MGPVMDR	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	20383000	19840000	19128000	1693000	1712800	84368	97762	88548	100650
MGPVMDRMATGLER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	3 Oxidation (M)	11961000	14204000	9930200	1780000	1657300	2026700	286400	339910	333080
MGPYPQR	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Oxidation (M)	3483900	242440	0	27108	220580	268640	0	0	0
MGPYPQRK	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Oxidation (M)	290190	326500	364570	0	0	0	0	0	0
MGQAPSQSLLPPAQDQPR	SRRM2; SRRM2	Q9UQ35; I3L3Q8	SRRM2_HUM	Oxidation (M)	3035700	2676900	2651400	146620	139320	196250	0	0	0
MGQAVPAPTGAPPGGQPDYSAAWAEYYR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Oxidation (M)	5130300	4924700	4569800	0	0	0	0	0	0
MGQLGLGNQTDAVPSPAQIMYNGQPITK	RCC2	Q9P258	RCC2_HUMA	2 Oxidation (M);De	1726600	2849400	2303300	0	0	0	0	0	0
MGQLGLGNQTDAVPSPAQIMYNGQPITK	RCC2	Q9P258	RCC2_HUMA	2 Oxidation (M);2 I	2811900	1826600	0	0	0	0	0	0	0
MGQMAMGGAMGINNR	NONO; NONO; NON	Q15233; A0A7Z\	NONO_HUM	4 Oxidation (M);De	21930000	26236000	33625000	1227300	1232800	1308600	0	0	0
MGQPGSGSMPSR	ATXN2; ATXN2; AT	Q99700; A0A5F9	ATX2_HUMA	2 Oxidation (M)	1028100	385460	956520	153630	140640	132350	0	0	7739.2
MGQTMER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	314010	1108600	1447800	51903	166840	112730	0	0	0
MGQTMERIGSGVER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	2 Oxidation (M)	0	0	0	0	196090	196750	0	0	0
MGRGPGPLQER	MATR3; MATR3; M	P43243; H0Y8T4;	MATR3_HUM	Oxidation (M)	650750	361100	809090	238630	205310	638570	21346	42860	27131
MGRMHAPGK	RPS13; RPS13; RPS1	P62277; J3KMX5;	RS13_HUMA	2 Oxidation (M);2 I	0	0	0	11235	16877	12914	0	0	0
MGSGIERMGPLGLDHMASSIER	HNRNPM; HNRNPM	P52272; M0QZM	HNRPM_HUN	3 Oxidation (M)	368070	341660	805750	2392800	2183000	2437300	160440	310060	318360
MGSNSEVAR	MPI; MPI; MPI; MPI	P34949; H3BQX0	MPI_HUMAN	Oxidation (M);Deai	0	0	276300	20712	0	0	0	0	0
MGTAFSAGAEAAR	INSM1	Q01101	INSM1_HUM	Oxidation (M)	1112300	1108400	1118600	0	23748	31143	0	0	0
MGTPVPRPPQDMGQIGVR	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2_HUM	2 Oxidation (M)	4127200	4260200	3727900	0	0	0	0	0	0
MGTTVATNALLER	OPLAH; OPLAH	O14841; A0A087	OPLA_HUMA	Oxidation (M)	625470	529260	669110	0	0	0	0	0	0
MGVNLTR	PYCR2; PYCR2; PY	Q96C36; A0A087	PSCR2_HUM	Oxidation (M)	1583700	1239600	1894200	65059	54217	0	0	0	0
MGWIQPR	BOP1; BOP1	Q14137; A0A075	BOP1_HUMA	Oxidation (M)	1007100	333720	877990	0	0	0	0	0	0
MGYAEEAPYDAIHVGAAAPVVPQALIDQLKPGGR	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Oxidation (M)	6804400	5285500	2379100	0	0	0	0	0	0
MGYMDPR	SFPQ; SFPQ; SFPQ	P23246; H0Y9K7;	SFPQ_HUMA	2 Oxidation (M)	26692000	43071000	30163000	1496900	2574500	2150300	0	0	0
MHCCDEVQPK	MCM6	Q14566	MCM6_HUM	Oxidation (M)	570430	551120	625110	0	0	0	0	0	0
MHDLNTDQENLVGTHDAPIR	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3_HUMA	Oxidation (M)	2674300	0	2286600	74651	0	51509	0	0	0
MHEDINEEWISDK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Oxidation (M)	417770	481970	414170	23264	0	0	0	0	0
MHEDINEEWISDKTR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1_HUM	Oxidation (M)	3611800	3158800	5345200	132400	115880	0	0	0	0
MHFSIPETESR	SNX17; SNX17; SNX	Q15036; F8WAZ0	SNX17_HUM	Acetyl (Protein N-t	772080	1040100	774940	144030	132090	149860	41334	39348	49516
MHIFSMNMK	UBA2; UBA2	Q9UBT2; K7ESK'	SAE2_HUMA	3 Oxidation (M);De	0	833960	761840	0	0	0	0	0	0
MHILEETFAEPSLQATQMK	MRTFB; MRTFB	Q9ULH7; I3L2S3	MRTFB_HUM	2 Oxidation (M)	1936200	1469700	2274600	0	0	0	0	0	0
MHNILKK	PIP4K2B; PIP4K2A;	P78356; P48426;	PI42B_HUMA	Acetyl (Protein N-t	0	0	273460	0	0	0	0	0	0
MHPAGLAAAAAGTPR	YIF1B	Q5BJH7	YIF1B_HUM	Acetyl (Protein N-t	1235200	1226100	929830	69313	72223	96672	0	0	0
MHPALSAFPSNIFYEGSLQNGVTAADR	UPF1	Q92900	RENT1_HUM	Oxidation (M);Deai	2714900	1895200	1992100	0	0	0	0	0	0
MHQVMSIEEVER	CHMP6; CHMP6; CH	Q96FZ7; I3L4A1;	CHMP6_HUM	2 Oxidation (M)	136290	349750	398020	0	0	0	0	0	0
MHRDSCPLDCK	SRSF3; SRSF3	P84103; A0A087	SRSF3_HUM	Acetyl (Protein N-t	2993300	2951500	3479500	457020	730810	803270	0	0	0
MHSLATAAPVPTTLAQVDREK	CNOT9; CNOT9	Q92600; F8WBZ6	CNOT9_HUM	Acetyl (Protein N-t	1554100	0	1006600	0	26149	0	0	0	0
MHTTFEHDIQALGTQVR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	10795000	7874700	8294300	231690	190590	137200	35030	19407	0
MHVEHER	SAFB; SAFB	Q15424; K7EII0	SAFB1_HUM	Oxidation (M)	0	290740	0	19407	21819	18868	0	0	0
MIAAVDTDSPR	BAX; BAX; BAX; BA	Q07812; I6LPK7;	BAX_HUMA	Oxidation (M)	5058500	5188200	5846800	0	0	0	0	0	0
MIAAVDTDSPREVFFR	BAX; BAX; BAX; BA	Q07812; I6LPK7;	BAX_HUMA	Oxidation (M)	8016200	7865800	11828000	327790	200620	258760	36042	0	0
MIAGQVLDINLAAEPK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Oxidation (M)	41286000	32997000	31274000	508170	360840	211270	201150	133630	163970
MIAGQVLDINLAAEPK	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Oxidation (M);Deai	5498600	6899500	4593800	54422	58547	32293	14171	0	13270
MIAGQVLDINLAAEPKVNR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Oxidation (M);Deai	2008400	1330200	3026500	0	0	0	0	0	0
MIAPEGSLVFHEK	PITPNB; PITPNB; PI	P48739; A0A0A0	PIPNB_HUM	Oxidation (M)	1817400	1599100	1646500	0	0	0	0	0	34256
MIATDPDDTHAYNVADFESLSR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Oxidation (M)	478930	391300	395330	57213	53117	120210	0	0	0
MIDFLR	MRPL2; N/A; MRPL2	Q5T653; A0A669	RM02_HUMA	Oxidation (M)	0	0	0	0	0	65832	0	0	0
MIDIQTR	BUD23; BUD23; BUI	O43709; B3KR83	BUD23_HUM	Oxidation (M)	1060700	1324500	1163300	201550	236410	168990	0	0	0
MIDLIIPR	ALDH18A1	P54886	P5CS_HUMA	Oxidation (M)	842680	608240	632510	29433	0	45089	0	0	0
MIDLSGNPVLR	CDIPT; CDIPT; CDIP	O14735; H3BUR9	CDIPT_HUM	Oxidation (M)	1364600	1549300	451920	16272	0	21719	0	0	0
MIDMLAANSGR	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	2 Oxidation (M)	681150	1016200	426820	0	0	0	0	0	0
MIDMLAANSGR	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	2 Oxidation (M);De	926090	0	695000	0	0	0	0	0	0
MIDMPVER	RNPS1; RNPS1; RNP	Q15287; H3BMS0	RNPS1_HUM	2 Oxidation (M)	8459800	11069000	8891000	261000	284420	403990	0	0	0
MIDVAEPGQR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1_HUMA	Oxidation (M)	0	820670	0	19521	101780	24230	0	0	0
MIDVQNR	GFUS; GFUS; GFUS;	Q13630; E9PKL9;	FCL_HUMAN	Oxidation (M)	9780400	5949900	6590500	1256000	1057900	1290700	0	0	0
MIEEAGAIISTR	ACOT7; ACOT7	O00154; K7EKP8	BACH_HUM	Oxidation (M)	26041000	10927000	25248000	84085	0	188130	0	0	0
MIELLADNINLGDPSSMLK	HEATR1; HEATR1	Q9H583; Q5T3Q7	HEAT1_HUM	2 Oxidation (M)	505060	296140	535290	0	0	0	0	0	0
MIESLTK	RUVBL2; RUVBL2;	Q9Y230; M0R0Y'	RUVB2_HUM	Oxidation (M)	2241100	2111700	1596600	0	66617	0	0	0	0
MIETAQVDER	RAB21	Q9UL25	RAB21_HUM	Oxidation (M)	838800	192490	1238500	66578	69840	0	0	0	0
MIEYDPERR	DKC1; DKC1; DKC1	O60832; H7BZF2;	DKC1_HUMA	Oxidation (M)	729250	698600	643020	0	39677	0	0	0	0
MIFDVESMK	PARP1	P09874	PARP1_HUM	2 Oxidation (M)	492570	286310	315440	0	0	0	0	0	0
MIFDVESMKK	PARP1	P09874	PARP1_HUM	2 Oxidation (M)	3345800	3019300	3374000	0	0	0	0	0	0
MIGGPILPSER	ALDH7A1; ALDH7A	P49419; A0A1B0	AL7A1_HUM	Oxidation (M)	0	0	0	0	0	0	124810	196400	236970
MIIEYATATVK	N/A	N/A	N/A	Oxidation (M)	5132600	4928000	0	0	0	0	0	0	0
MIIYRDLISHDEMFSDIYK	TPT1; TPT1; TPT1	P13693; A0A0B4	TCTP_HUMA	2 Oxidation (M)	8753600	6691900	4035000	0	0	0	0	0	0
MIKETLPNVR	DR1	Q01658	NC2B_HUMA	Oxidation (M)	724840	850480	1017000	34674	0	0	0	0	0
MIKPQTLASEK	PRXL2A	Q9BRX8	PXL2A_HUM	Oxidation (M)	978350	467890	795910	0	0	0	0	0	0
MIKTVEINGEK	RAB30; RAB30; RAI	Q15771; E9PS06;	RAB30_HUM	Acetyl (Protein N-t	0	111990	0	0	0	0	0	0	0
MILDEVKMHLPALETK	DMD; DMD; DMD; I	P11532; A0A075	DMD_HUMA	2 Oxidation (M);2 I	0	0	19251000	0	0	0	0	0	0
MILIQDGSQNTNVDKPLR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Oxidation (M)	4791900	3264600	4416400	104560	60577	75013	0	0	0
MILIQDGSQNTNVDKPLR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Oxidation (M);Deai	3461800	0	3812300	101090	0	0	0	0	0
MILKIDDIRKPGESEE	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE_HUMA	Oxidation (M)	11257000	12273000	9404500	246800	282070	302530	35877	0	20421
MILTFEK	CTNNBL1; CTNNBL	Q8WYA6; A2A2P	CTBL1_HUM	Oxidation (M)	597940	595830	706960	17356	19214	23051	0	0	0
MILTFEKR	CTNNBL1; CTNNBL	Q8WYA6; A2A2P	CTBL1_HUM	Oxidation (M)	0	0	432930	0	0	0	0	0	0
MIMATNRPDTLDPALLRPGR	PSMC6; PSMC6	P62333; A0A087	PRS10_HUM	2 Oxidation (M)	1252300	1106500	789850	0	0	0	0	0	0
MIMSFEMK	U2SURP; U2SURP; L	O15042; E7ET15;	SR140_HUM	3 Oxidation (M)	0	0	0	0	0	0	0	0	0
MIMSPVKNNVGR	FAM3D; FAM3D; FA	Q96BQ1; C9IZW7	FAM3D_HUM	2 Oxidation (M);De	0	0	0	0	0	54175	0	0	0
MIMTNPIATGK	LMCD1; LMCD1; LM	Q9NZU5; H7C3D:	LMCD1_HUM	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
MINTDLSR	RPL4; RPL4	P36578; H3BM89	RL4_HUMAN	Oxidation (M);Deai	4957400	3592200	4007300	189340	116000	157620	0	0	0
MINTDLSR	RPL4; RPL4	P36578; H3BM89	RL4_HUMAN	Oxidation (M)	9812500	9787800	9338800	170010	0	280480	0	0	0
MIPCDFLIPVQTQHPIR	GPI; GPI; GPI; N/A	P06744; K7EQ48;	G6PI_HUMA	Oxidation (M)	3514300	4399200	5295800	0	0	0	0	0	0
MIPCDFLIPVQTQHPIRK	GPI; GPI; GPI; N/A	P06744; K7EQ48;	G6PI_HUMA	Oxidation (M)	822770	0	854930	31020	0	0	49077	37032	46689
MIQDGKGDVTITNDGATILK	CCT4	P50991	TCPD_HUMA	Oxidation (M)	724330	0	545120	0	0	0	0	0	0
MIRAESGPDLRYEVTSGGGGTSR	DSP	P15924	DESP_HUMA	Oxidation (M)	962270	0	1662800	813480	834350	808390	0	215860	0
MISAAQLLDELMGRDR	LUC7L3; LUC7L3; L	O95232; J3KPP4;	LC7L3_HUM	Acetyl (Protein N-t	3946500	2681900	3859800	0	0	0	0	0	0
MISATEGPVK	MEAK7; MEAK7; M	Q6P9B6; H3BM7:	MEAK7_HUM	Oxidation (M)	293990	304420	0	0	0	0	0	0	0
MISDAIPELK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Oxidation (M)	8276900	7895000	7295700	542470	438770	328860	0	0	0
MISDLIAGGIQPLQNLSVLK	GSTZ1; GSTZ1; GST	O43708; G3V5T0;	MAAI_HUMA	Oxidation (M)	500380	50814	576780	0	0	0	0	0	0
MISEELVAASR	LRWD1; LRWD1	Q9UFC0; F8WDB	LRWD1_HUM	Oxidation (M)	2113800	890130	2413600	58676	0	47178	0	0	0
MISLSYSR	PSMD3	O43242	PSMD3_HUM	Oxidation (M)	509510	865280	888790	0	33231	0	0	0	0
MITAAYVPLPTYHNLFPDSMTATQLLVPSRR	RBM39	Q14498	RBM39_HUM	2 Oxidation (M)	3929300	2957800	0	0	0	0	0	0	0
MITGSMVPLLQVISR	UBE3C	Q15386	UBE3C_HUM	2 Oxidation (M)	154360	107650	132000	0	0	0	0	0	0
MITTSGPTSEKPTR	MAP3K7; MAP3K7	O43318; Q9UG54	M3K7_HUMA	Oxidation (M)	726550	690100	647550	183400	143760	0	38716	0	38121
MIVDPVEPHGEMK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	2 Oxidation (M)	3105800	3633800	3206400	0	0	0	0	0	0
MIVMGHR	LONP1; LONP1; LO	P36776; K7EQF8;	LONM_HUM	2 Oxidation (M)	399860	0	0	0	0	78443	0	0	0
MIYASSKDAIK	CFL1; DSTN; CFL2;	P23528; P60981;	COF1_HUMA	Oxidation (M)	5955200	11050000	11581000	0	0	0	0	0	0
MKAAEKEAALVQQEEEKAEQR	SART3; SART3	Q15020; A0A499	SART3_HUM	Oxidation (M)	0	2635000	1385100	0	0	0	0	0	0
MKAEFFADVVPAVR	ENOPH1; ENOPH1;	Q9UHY7; D6RA0	ENOPH_HUM	Oxidation (M)	0	3112700	0	0	0	0	0	0	0
MKAEFFADVVPAVRK	ENOPH1; ENOPH1;	Q9UHY7; D6RA0	ENOPH_HUM	Oxidation (M)	1053000	615720	922500	0	0	0	0	0	0
MKDCEIKQPVEGANYIK	WBP2; WBP2; WBP2	Q969T9; K7ENL2	WBP2_HUM	Acetyl (Protein N-t	1169500	0	0	0	0	59158	0	0	0
MKDTDNEEEIREAFR	CALML3	P27482	CALL3_HUM	Oxidation (M)	4280500	1226900	1318500	0	0	0	0	0	0
MKDTDNEEEIREAFR	CALML3	P27482	CALL3_HUM	Oxidation (M);Deai	2634400	1542300	1851800	0	0	0	0	0	0
MKDTDSEEEIREAFR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Oxidation (M)	67559000	69355000	64376000	1285800	1517000	1423000	15681	0	0
MKEEVPTALVEAHVR	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2_HUM	Oxidation (M)	1635000	1488700	1558100	0	0	39828	0	0	0
MKEIAEAYLGGK	HSPA2	P54652	HSP72_HUM	Oxidation (M)	1112000	938740	670500	0	0	0	0	0	0
MKEIAEAYLGK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	70943000	60576000	65588000	620910	540500	621370	37812	0	31002
MKEIAEAYLGK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Metl	3095500	2927100	2740300	0	0	0	0	0	0
MKEIAEAYLGK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	980750	505290	0	0	0	0	0	0	0
MKEKQDKIYFMAGSSR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	2 Oxidation (M)	2522200	2961200	3629700	0	354940	183130	0	0	0
MKELSQDSTGR	SMS; SMS	P52788; H7C2R7	SPSY_HUMA	Oxidation (M)	1511700	912290	1585400	76400	36139	115280	11643	0	0

MKENQKHIYYITGETK	HSP90AA1	P07900	HS90A_HUM	Oxidation (M);Deam	2408300	1883200	2212100	0	86316	79399	0	0	0
MKENQKHIYYITGETKDQVANSAFVER	HSP90AA1	P07900	HS90A_HUM	Oxidation (M);2 De	1901300	3353000	2568600	0	0	0	0	0	0
MKETAEAYLGK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M)	8384400	9405100	12111000	96096	165560	139730	0	0	0
MKETAEAYLGK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M);Metl	1859000	1609600	1212700	0	0	0	0	0	0
MKETAEAYLGKK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M)	9493700	8750700	9947200	363340	335670	294090	0	0	0
MKETAEAYLGKK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M);Metl	2420400	2229900	2528700	69398	40326	75068	0	0	0
MKETAENYLGHTAK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Oxidation (M);Deam	480280	0	342800	0	0	0	0	0	0
MKETAENYLGHTAK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Oxidation (M)	7279900	6616000	5044000	0	0	0	0	0	0
MKETAVFINISR	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR_HUM	Oxidation (M)	1531900	1626100	1482500	25237	0	10082	0	0	0
MKETQKSIYYITGESKEQVANSAFVER	HSP90AB1	P08238	HS90B_HUM	Oxidation (M);Metl	685900	775900	1694800	0	0	0	0	0	0
MKFNPFVTSDR	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26_HUMA	Oxidation (M)	1077000	2497700	2000900	91946	125140	0	0	0	0
MKGEAEDILETEK	PLGRKT	Q9HBL7	PLRKT_HUM	Oxidation (M)	2586300	1500100	2654900	32974	0	0	0	0	0
MKGEAEDILETEKSKLQLPR	PLGRKT	Q9HBL7	PLRKT_HUM	Oxidation (M)	4361300	3669400	3589300	0	0	0	0	0	0
MKGELGMMLSLQNVIQK	ARMC1; ARMC1; AI	Q9NVT9; E5RHK	ARMC1_HUM	3 Oxidation (M)	1987900	2412600	1102200	0	0	0	0	0	0
MKGLEEPEMDPK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2_HUM	2 Oxidation (M)	9868200	9458500	8276600	306400	407180	445540	0	0	0
MKGSRIELGDVTPHNIK	NAA50; NAA50; NA	Q9GZZ1; A0A087	NAA50_HUM	Acetyl (Protein N-t	0	106370	0	0	0	0	0	0	0
MKGYPHWPAR	PSIP1; HDGFL2; HDI	O75475; Q7Z4V5;	PSIP1_HUMA	Oxidation (M)	2621200	2733500	2314300	93099	64244	102410	0	0	0
MKHYEVEILDAK	TECR; TECR	Q9NZ01; M0R3C	TECR_HUMA	Oxidation (M)	0	1772100	2494000	48249	61206	60757	0	0	0
MKIDPEAFITR	GCN1	Q92616	GCN1_HUMA	Oxidation (M)	2547600	1592500	0	44405	47559	33323	0	0	0
MKIELFADVVPK	PPIH; PPIH; PPIH; PI	O43447; A0A7Z	PPIH_HUMA	Oxidation (M)	1751100	1080600	0	0	0	0	0	15677	0
MKLNISFPATGCQK	RPS6; RPS6	P62753; A2A3R7	RS6_HUMAN	Oxidation (M)	1604500	1428700	1483800	62959	80839	33953	0	0	0
MKLNTQEIFDDWAR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M);Deam	271010	365900	0	0	0	0	0	0	0
MKLSDFNDITNMLLLK	PRKDC	P78527	PRKDC_HUM	2 Oxidation (M);De	566280	603910	621000	0	0	0	10674	0	0
MKLTEDPEKQTLPGSK	NAPRT; NAPRT; NA	Q6XQN6; G5E977	PNCB_HUMA	Oxidation (M)	1047100	929810	1002400	55684	71061	70379	0	0	0
MKLVSPETEASEESLQFNLEKPATGER	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B_HUM	Oxidation (M)	1547600	1006900	1350400	0	0	0	0	0	0
MKPILLQGHER	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z	EIF3I_HUMA	Oxidation (M)	1260900	1353100	1535100	275040	466040	364940	0	0	0
MKPLMGVIYVPLTDKEK	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	2 Oxidation (M)	6598000	6079600	6747200	0	0	0	0	0	0
MKPVPDLVPGNFK	FGA	P02671	FIBA_HUMA	Oxidation (M)	1356600	1416200	1335100	37098	0	39357	0	19739	0
MKQDAQVVLYR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	2666100	2453200	4546800	34610	100390	66806	0	0	0
MKQEEQLQR	B3GAT3	O94766	B3GA3_HUM	Oxidation (M)	658250	841670	411740	74027	66910	82635	0	0	0
MKQELSSELSTLLSSLSR	NUP188	Q5SRE5	NU188_HUM	Oxidation (M)	605630	0	501140	0	0	0	0	0	0
MKQEPVKPEEGR	RHOA	P61586	RHOA_HUM	Oxidation (M)	785640	661430	628960	0	49199	0	0	0	0
MKQEPVKPEEGRDMANR	RHOA	P61586	RHOA_HUM	2 Oxidation (M)	7856000	2464700	7896100	637410	0	659800	0	41102	0
MKQVEAALQPQTLR	SERPINA11	Q86U17	SPA11_HUM	Oxidation (M)	763330	0	660270	58559	162690	123050	0	68173	73088
MKQVEELYHSLLELGEK	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	1490500	799930	723680	0	0	0	0	0	0
MKQVEELYHSLLELGEKR	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	1893000	2170800	1669100	0	0	0	0	0	0
MKSLEQDALR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Oxidation (M)	1808600	2453100	1388200	35166	26948	18888	0	0	0
MKSLGPDVPELIILPVYSALPSEMQTR	DHX8; DHX8	Q14562; F5H658	DHX8_HUMA	2 Oxidation (M)	225800	239670	258690	0	0	0	0	0	0
MKSQAFIEMETR	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	2 Oxidation (M)	3168800	1834000	2623000	0	41986	0	0	0	0
MKTEAELAKEEQEHLR	NOP14; NOP14	P78316; E9PFK5	NOP14_HUM	Oxidation (M)	704860	1165200	1008400	0	40554	0	0	0	0
MKTILSNQTVDIPENVDITLK	RPL9; RPL9	P32969; D6RAN4	RL9_HUMAN	Oxidation (M)	1236300	0	886930	0	0	0	0	0	0
MKVQDQDLPNTPHSK	DSC1	Q08554	DSC1_HUMA	Oxidation (M)	745800	0	0	296890	283410	327270	0	25852	11027
MKVVEVLAGHGHLYSR	FASN	P49327	FAS_HUMAN	Oxidation (M)	1056400	912890	1296000	0	0	0	0	0	0
MKYTTATGRNITK	MCCC1; MCCC1; M	Q96RQ3; F8WDI3	MCCA_HUM	Acetyl (Protein N-t	979450	743030	783130	32538	29649	29876	0	0	0
MLAEDELR	ARF3; ARF1; N/A	P61204; P84077; I	ARF3_HUMA	Oxidation (M)	5304500	5064900	4873200	0	0	0	0	0	0
MLAIYDGFDGFAK	PFKP; PFKP; PFKP;	Q01813; A0A7Z	PFKAP_HUM	Oxidation (M)	2198600	2776800	1678100	14118	0	0	0	0	13998
MLAPEGALNIHEK	PITPNA; PITPNA; PI	Q00169; I3L459; I	PITPNA_HUM	Oxidation (M)	2759600	3393300	2674500	0	0	0	0	0	0
MLATLEPEQR	ALDH18A1	P54886	P5CS_HUMA	Oxidation (M)	311800	3161400	1782200	0	0	0	0	0	0
MLAVHFDK	TP53I3	Q53FA7	QORX_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MLAVHFDKPGGPENLYVK	TP53I3	Q53FA7	QORX_HUM	Acetyl (Protein N-t	8319100	6430700	7764000	12679	0	0	0	0	0
MLDAAVIK	SRRT	Q9BXP5	SRRT_HUMA	Oxidation (M)	0	670220	638910	21102	17259	22029	0	0	0
MLDAEDIVGTARPDEK	ACTN1; ACTN1; AC	P12814; G3V2W4	ACTN1_HUM	Oxidation (M)	3680200	1774900	3610800	78254	45904	50560	0	0	0
MLDAEDIVNTARPDEK	ACTN4	O43707	ACTN4_HUM	Oxidation (M)	3606200	3029400	2644300	166900	292090	128410	0	0	0
MLDFFTIFSK	SRPRA	P08240	SRPRA_HUM	Oxidation (M)	0	131490	174980	0	0	0	0	0	0
MLDLLEDFLEHEGYK	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M)	233620	170170	349860	0	0	0	0	0	0
MLDLYSQISSVPIGYSHPALLK	ABAT; ABAT; ABAT	P80404; H3BRN4	GABT_HUMA	Oxidation (M)	1057900	1076500	190580	0	0	0	0	0	0
MLDMGFEPQIR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	2 Oxidation (M)	14749000	13256000	12558000	353060	253440	338880	0	0	0
MLDNLGYR	ADD1; ADD2; ADD1	P35611; P35612; I	ADDA_HUM	Oxidation (M)	2595600	2182600	2077900	509930	411940	522270	0	0	0
MLDQTLLDLNEM	TPM3; TPM3	J3KN67; A0A087	J3KN67_HUM	2 Oxidation (M)	3875600	3371700	3348700	314720	315010	226700	45824	0	0
MLDQTLLDLNEM	TPM3; TPM3	J3KN67; A0A087	J3KN67_HUM	2 Oxidation (M);De	786030	863130	775350	30116	26711	17430	0	0	0
MLDVTMLQEEKEEQMRLPSADVYR	SOS1; SOS1	Q07889; G5E9C8	SOS1_HUMA	3 Oxidation (M)	1466000	0	1555900	0	0	0	0	0	0
MLEAEGSMKQALGELQAR	FLAD1; FLAD1	Q8NFF5; Q5T190	FAD1_HUMA	2 Oxidation (M)	0	0	0	0	726700	0	238300	752540	0
MLEDPQER	DDX23; DDX23	Q9BUQ8; H0YIL9	DDX23_HUM	Oxidation (M)	759400	861830	689240	93268	99013	497890	0	0	0
MLEDRDLFVMR	EIF3A	Q14152	EIF3A_HUMA	2 Oxidation (M)	1835400	1790100	2034100	46475	0	0	0	0	11452
MLEDSQR	PDXDC1; PDXDC2P	Q6P996; Q6P474;	PDXD1_HUM	Oxidation (M)	811050	832520	870250	31650	19160	0	0	0	0
MLEENTNILK	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	Oxidation (M)	889630	1965400	1159400	63365	69707	64779	0	0	0
MLEGGEDPLYVAR	WRNIP1	Q96S55	WRIP1_HUM	Oxidation (M)	5621200	4955400	4104600	0	70283	0	0	0	0
MLEGGEDPLYVARR	WRNIP1	Q96S55	WRIP1_HUM	Oxidation (M)	1318700	799890	974250	32284	8133.6	34501	0	0	0
MLEILEGK	EIF4G2; EIF4G2; EIF	P78344; H0Y3P2;	IF4G2_HUMA	Oxidation (M)	0	0	570150	0	0	0	0	0	0
MLELVAQK	UBXN1; UBXN1; UB	Q04323; E9PJ81;	UBXN1_HUM	Oxidation (M)	2017000	2114600	1904100	85848	82077	54871	0	0	0
MLEMGITGPEGHVLSRPEELEAEAVFR	DPYSL3	Q14195	DPYL3_HUM	2 Oxidation (M)	5304200	0	4946300	0	0	0	0	0	0
MLEQLDMR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B_HUM	2 Oxidation (M)	847260	698570	1131800	0	0	0	0	0	0
MLFATPPSSTYEK	RMDN1; RMDN1; RI	Q96DB5; H0YBD	RMD1_HUM	Oxidation (M)	2344900	1702800	2152700	0	0	0	0	0	0
MLFSPEEMDLSQEQPLDAQQGPPEPAQESLSGSESKPKDEL	P3H1	Q32P28	P3H1_HUMA	2 Oxidation (M)	3533700	2132100	2160900	0	0	0	0	0	0
MLFYSFFK	LSM2	Q9Y333	LSM2_HUMA	Oxidation (M)	1672200	2777800	2527800	10264	13334	0	12049	0	0
MLGPEGGEGFVVKLR	HNRNPF; HNRNPF	P52597; A0A1B0	HNRPF_HUM	Acetyl (Protein N-t	1433500	1272800	1565300	1040000	827460	667030	547950	488600	522870
MLGQMTDQVADLR	VCL	P18206	VINC_HUMA	2 Oxidation (M)	1484500	455040	560630	90204	0	0	120860	0	114650
MLGQMTDQVADLRAR	VCL	P18206	VINC_HUMA	2 Oxidation (M)	0	0	0	0	70002	81731	69635	82689	58698
MLGTEGGEGFVVKVR	HNRNPH1; HNRNPH	P31943; D6R9D3;	HNRH1_HUM	Acetyl (Protein N-t	0	0	0	313640	0	0	0	159420	0
MLIDFSYLLSK	KAT7; KAT7	O95251; E7EUP3	KAT7_HUMA	Oxidation (M)	196470	96258	236600	0	0	0	0	0	0
MLIEKDPSLEK	PPHLN1; PPHLN1; P	Q8NEY8; F8W6A	PPHLN_HUM	Oxidation (M)	746110	740910	684830	0	0	0	0	0	0
MLISSIK	IMPA1; IMPA1; IMP	P29218; E5RG94;	IMPA1_HUM	Oxidation (M)	784670	751110	739070	0	0	0	0	0	0
MLISSIKEKYPSHSFIGEESVAAGEK	IMPA1; IMPA1; IMP	P29218; E5RG94;	IMPA1_HUM	Oxidation (M)	3745100	2644800	3908300	0	0	0	0	0	0
MLITILGTVKPNANR	LGALS3; LGALS3	P17931; G3V3R6	LEG3_HUMA	Oxidation (M);Deam	922790	211930	1054900	0	0	0	0	0	0
MLIYDPAK	CDK1; CDK1	P06493; A0A024(	CDK1_HUMA	Oxidation (M)	1393900	1573700	1388500	0	0	0	0	0	0
MLKPQPLQQPSQPQQPPPTQQAVAR	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L_HUM	Acetyl (Protein N-t	7506000	6612600	6769400	657830	100690	653350	52244	51969	0
MLLDPMGGIVMTNDGNAILR	CCT3; CCT3; CCT3;	P49368; Q5SZX9;	TCPG_HUMA	3 Oxidation (M);De	1758600	0	4331000	0	0	0	0	0	0
MLLDPMGGIVMTNDGNAILR	CCT3; CCT3; CCT3;	P49368; Q5SZX9;	TCPG_HUMA	3 Oxidation (M);2 I	464930	272650	0	0	0	0	0	0	0
MLLETGLERDR	LHX3	Q9UBR4	LHX3_HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MLLPSGSLFFLR	ROBO1; ROBO2; RO	Q9Y6N7; Q9HCK	ROBO1_HUM	Oxidation (M)	741260	280130	658790	0	0	0	0	0	0
MLLQSSEGR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Oxidation (M)	2340400	1895600	2497700	0	0	17752	0	0	0
MLLYTEVTR	GDI1; GDI2; GDI2; G	P31150; P50395; '	GDIA_HUMA	Oxidation (M)	3819700	4055900	4396200	0	0	0	0	16821	10455
MLMIQR	RBM12	Q9NTZ6	RBM12_HUM	2 Oxidation (M)	1963600	0	2188000	0	76384	76049	0	0	0
MLMLDPAER	CASK; CASK; CASK	O14936; A0A2U3	CSKP_HUMA	2 Oxidation (M)	548870	0	552220	0	13652	0	0	14878	0
MLMNFLVKK	OR8J3	Q8NGG0	OR8J3_HUM	2 Oxidation (M);De	0	0	0	0	0	0	0	0	0
MLNGLEDSIGLSK	LRPPRC	P42704	LPPRC_HUM	Oxidation (M);Deam	5174500	4373100	5356400	90057	90529	55791	0	0	0
MLNIHPSLLPSFK	GART; GART	P22102; A0A140	PUR2_HUMA	Oxidation (M)	2198700	1375300	1822700	10391	0	0	0	0	0
MLNMIR	DHX9	Q08211	DHX9_HUMA	2 Oxidation (M);De	0	244690	1212900	43427	48522	0	0	0	0
MLNMIR	DHX9	Q08211	DHX9_HUMA	2 Oxidation (M)	0	0	12431000	312650	220060	0	0	0	0
MLNMWKVR	CLINT1	Q14677	EPN4_HUMA	2 Oxidation (M);2 I	0	0	0	0	0	0	0	29809	20030
MLPDKDCR	CFL1; CFL1; CFL1; (	P23528; G3V1A4;	COF1_HUMA	Oxidation (M)	9162300	3183600	2842700	915360	0	667800	0	0	0
MLPHVVLTFR	ACSF3; ACSF3; ACS	Q4G176; F5GX20	ACSF3_HUM	Acetyl (Protein N-t	0	0	79264	0	0	0	0	0	0
MLPLSLLK	LSM4; LSM4; LSM4	Q9Y4Z0; M0QXB	LSM4_HUMA	Oxidation (M)	2584800	2557600	2952600	392420	336550	346370	101670	0	105850
MLPPPPMWR	RNPS1; RNPS1; RNP	Q15287; H3BPG5	RNPS1_HUM	2 Oxidation (M)	2575300	3143000	0	161680	0	45763	0	75469	64141
MLPQAATEDDIRGQLQSHGVQAR	RBM10	P98175	RBM10_HUM	Oxidation (M)	15348000	9542000	10718000	0	0	0	0	0	0
MLPSFVR	HK1	P19367	HXK1_HUMA	Oxidation (M)	7330500	5631100	7866500	400160	477020	474110	51930	56974	55955
MLPSTSR	PSMD3	O43242	PSMD3_HUM	Oxidation (M)	1598500	1965200	1869400	0	0	0	0	0	0
MLPSVPATAVR	ZMYM4; ZMYM4	Q5VZL5; H7C1I7	ZMYM4_HUM	Oxidation (M)	782330	675010	737390	121530	0	45144	0	0	0
MLPTFVR	HK2; HKDC1; HK3; I	P52789; Q2TB90;	HXK2_HUMA	Oxidation (M)	23761000	19515000	24277000	813440	850190	1077100	72069	0	77845
MLPTIIADNAGYDSADLVAQLR	CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M)	3132300	438110	1661600	0	0	0	0	0	0
MLPTIIADNAGYDSADLVAQLR	CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M);Deam	1260000	0	958510	0	0	0	0	0	0
MLPTLGGEEGVSR	GTF3C5; GTF3C5	Q9Y5Q8; Q5T7U1	TF3C5_HUM	Oxidation (M)	1824500	1512200	1801200	0	0	82687	0	0	0
MLPVDEFLPVMFDKHPVSEYK	COLGALT1	Q8NBJ5	GT251_HUM	2 Oxidation (M)	3629100	2766000	4493400	0	0	0	0	0	0
MLPVSGAFHTR	MCAT	Q8IVS2	FABD_HUMA	Oxidation (M)	1242200	1118700	1493000	40766	55907	44878	0	0	0
MLQADPNKVSAR	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M)	4081400	4899500	5967400	949790	757830	840630	76537	41143	0
MLQADPNKVSAR	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M);Deam	3496500	758630	0	129290	71219	72796	6836.7	0	0
MLQAMGWKEGSGLGR	RBM10	P98175	RBM10_HUM	2 Oxidation (M)	399870	530300	630110	52066	54781	68449	0	0	0
MLQDDDTVHLPFEGGSLLQIPVK	SLC4A7; SLC4A7; SI	Q9Y6M7; A0A0A	S4A7_HUMA	Oxidation (M)	193760	510490	106750	0	0	0	0	0	0
MLQFVLPVATQIQQEVIK	C12orf57; C12orf57;	Q99622; U3KQ07	C10_HUMAN	Oxidation (M)	755270	415040	660020	0	0	0	0	0	0
MLQHIDYR	SNRPB; SNRPN; SNI	P14678; P63162;	RSMB_HUM	Oxidation (M)	1002100	1644900	1015300	163330	143780	128430	0	15980	0
MLQPCGPPADKPEEN	SF3B5	Q9BWJ5	SF3B5_HUM	Oxidation (M)	795100	623750	677430	0	66411	61497	0	0	0
MLQQEEQLR	PCM1; PCM1; PCM1	Q15154; E7EV93;	PCM1_HUMA	Oxidation (M)	0	608740	610640	0	0	0	0	0	0
MLQSIIK	ATP5MJ; ATP5MJ; A	P56378; G3V556;	ATP68_HUM	Oxidation (M)	356600	0	0	0	0	0	0	0	0
MLQVASQASR	WBP2; WBP2; WBP2	Q969T9; K7ENL2	WBP2_HUMA	Oxidation (M)	879460	1599700	1237200	0	102660	0	0	0	0
MLQWLATK	HMCES; HMCES; HI	Q96FZ2; E7EMP6	HMCES_HUM	Oxidation (M)	818700	0	1032100	0	16951	0	0	0	0
MLRGNLK	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Oxidation (M);Metl	425460	505080	848740	0	0	0	0	0	0
MLRVAWRTLSLIRTR	MRPS15	P82914	RT15_HUMA	Acetyl (Protein N-t	0	102200	0	0	0	0	0	0	0
MLSAVSQQVQCIQEALR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1452200	1012100	954190	0	0	0	0	0	0
MLSLDFLDDVRR	SEC11A; SEC11A; SI	P67812; H0YNG3	SC11A_HUM	Oxidation (M)	1377200	883370	1068800	0	0	0	0	0	0
MLSLLGILK	IFT81; IFT81; IFT81	Q8WYA0; H0YHI	IFT81_HUM	Oxidation (M)	518140	413010	412210	0	0	0	0	0	0
MLSLPEELAR	PDP1	Q9P0J1	PDP1_HUMA	Oxidation (M)	0	0	978350	45856	60595	0	0	0	0
MLSLRVPLAPITDPQQLQLSPLK	RRM2; RRM2	P31350; A0A286	RIR2_HUMA	Acetyl (Protein N-t	215480	28942	174690	0	0	0	0	0	0

MLSQDAPTVK	NBN; NBN	O60934; A0A0C4	NBN_HUMA	Oxidation (M)	932840	371960	107270	45257	0	46065	0	0	0
MLSQLAAAESR	CTTNBP2NL; CTTN	Q9P2B4; B1AMN	CT2NL_HUM	Oxidation (M)	0	0	894190	0	82403	0	0	0	0
MLSTEGREGFVVK	HNRNPH2	P55795	HNRH2_HUM	Acetyl (Protein N-t	0	0	0	158190	110730	83041	0	0	0
MLTAQDMSYDEAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	2 Oxidation (M)	1023800	838880	659300	0	0	0	0	0	0
MLTDKER	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Oxidation (M)	3076500	3997000	4008500	153250	0	0	0	0	0
MLTDKEREMAEIRDQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	3 Oxidation (M)	1671500	0	2981400	0	0	0	0	0	0
MLTDKEREMAEIRDQMQQQLNDYEQLLDVK	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	3 Oxidation (M);De	815620	699900	1042600	0	0	0	0	0	0
MLTELEK	S100A8	P05109	S10A8_HUM	Oxidation (M)	764560	798090	0	111670	0	152390	0	0	0
MLTEQGK	NNT; NNT; NNT	Q13423; E9PCX7	NNTM_HUM	Oxidation (M)	388250	664480	0	0	0	0	0	0	0
MLTERMFNAENGK	TALDO1	P37837	TALDO_HUM	2 Oxidation (M);2 I	1334900	1364900	673990	111840	72368	108820	0	0	0
MLTERMFNAENGK	TALDO1	P37837	TALDO_HUM	2 Oxidation (M);De	173500	0	140250	106030	0	129650	0	0	0
MLTESGDPEEEEEEEEELVDPLTTVR	UQCRHL; UQCRH	A0A096LP55; P07	QCR6L_HUM	Oxidation (M)	1656600	1844900	1594900	0	0	0	0	0	0
MLTFLMLVR	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	2 Oxidation (M)	837690	1107500	1003900	0	0	0	0	0	0
MLTGPVYSQSTALTHK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Oxidation (M)	1456400	1136500	1366500	0	45280	0	0	0	0
MLVAAAAERNKDPILHVLR	METTL26; METTL2	Q96S19; A0A087	MTL26_HUM	Acetyl (Protein N-t	0	1421500	0	0	0	0	0	0	0
MLVDLAK	GPI; GPI; GPI; C	P06744; K7ELA4;	G6PI_HUM	Oxidation (M)	15706000	14450000	54826	0	0	0	0	0	0
MLVELSK	CCT4	P50991	TCPD_HUM	Oxidation (M)	0	5003500	0	167980	177190	0	0	13445	0
MLVLDEADEMLNK	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUM	2 Oxidation (M)	1176000	1187300	847510	0	0	0	0	0	0
MLVNENFEEYLR	RBP1; RBP1; RBP1;	P09455; A0A0A0	RET1_HUM	Oxidation (M)	1268400	1276700	1120300	0	0	0	0	0	0
MLVSGAGDIK	CCT6A; CCT6B	P40227; Q92526	TCPZ_HUM	Oxidation (M)	7238500	16005000	10031000	147690	256270	322080	0	0	0
MLVSGAGDIKLTK	CCT6A; CCT6B	P40227; Q92526	TCPZ_HUM	Oxidation (M)	2640500	2893600	2698000	119640	109400	118380	0	0	0
MLVSGQGPVMENAQGLGFR	HDHD5	Q9BXW7	HDHD5_HUM	2 Oxidation (M);De	2270300	2084700	2200400	0	0	0	0	0	0
MLVSGQGPVMENAQGLGFR	HDHD5	Q9BXW7	HDHD5_HUM	2 Oxidation (M)	1898600	1855500	1590200	45468	14550	0	0	0	0
MLVSYYR	WASHC5; WASHC5;	Q12768; E7EQJ7;	WASC5_HUM	Oxidation (M)	514950	338940	516540	45749	39307	43214	0	0	0
MLVTFDEELRPLPVSVR	PSMD2	Q13200	PSMD2_HUM	Oxidation (M)	18361000	12388000	16514000	0	0	0	0	0	0
MLVVGGIDRVYEIGR	KARS1	Q15046	SYK_HUMA	Oxidation (M)	1129900	8099400	1027000	0	0	0	0	0	0
MLYDMENPPADEYFGR	LPP; LPP	Q93052; A0A087	LPP_HUMAN	2 Oxidation (M)	450120	338190	453690	73597	56910	110730	29844	18010	32327
MLYVPVMPGHAK	UBA6	A0AVT1	UBA6_HUM	2 Oxidation (M)	896650	499310	656380	0	0	0	0	0	0
MMADEALGSGLVSR	ECH1	Q13011	ECH1_HUM	2 Oxidation (M)	11292000	12503000	12571000	0	0	0	0	0	0
MMANGILK	AHCY	P23526	SAHH_HUM	2 Oxidation (M);De	3119200	3307300	3150800	46023	71554	78611	0	0	0
MMANGILKVPAINVNDSVTK	AHCY	P23526	SAHH_HUM	2 Oxidation (M);De	4836300	5302900	3124800	15916	0	0	0	0	0
MMANGILKVPAINVNDSVTK	AHCY	P23526	SAHH_HUM	2 Oxidation (M);2 I	3352600	14015000	3728400	0	0	0	0	0	0
MMCGAPSATQPATAETQHIADQVR	CSTB; CSTB	P04080; A0A1W2	CYTB_HUM	Acetyl (Protein N-t	4908000	4574400	5665100	275660	351030	200960	0	0	0
MMDYLQGSGETPQTDVR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	2 Oxidation (M)	4888100	5850800	3756300	102700	85614	133220	0	0	0
MMEGLDDGPDFLSEEDRGLK	SNX6; SNX6; SNX6;	Q9UNH7; A0A0A	SNX6_HUMA	Acetyl (Protein N-t	1250900	854780	1397000	44110	41444	24907	0	0	0
MMEIMTR	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	3 Oxidation (M)	13098000	5515600	11486000	453930	238940	260180	0	0	0
MMENGIKPVYVFDGKPPQLK	FEN1; FEN1	P39748; F5H1Y3	FEN1_HUMA	2 Oxidation (M);De	4372500	4012300	4463700	0	0	0	0	0	0
MMETMDQGDVIIRPSSK	SUPT6H	Q7KZ85	SPT6H_HUM	3 Oxidation (M)	670490	733690	651930	0	0	0	0	0	0
MMEVAAADVK	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2_HUM	2 Oxidation (M)	2421900	2907100	2260100	206890	186390	245290	0	0	0
MMEVDVR	SGPL1	O95470	SGPL1_HUM	2 Oxidation (M)	1334300	1003800	945350	102460	0	0	0	0	0
MMGGAGPGSSLEAR	WIZ; WIZ; WIZ; WIZ	O95785; B9EGQ5	WIZ_HUMAN	2 Oxidation (M)	0	675820	1065000	69626	73761	103110	0	0	0
MMGHRPVLVLSQNTK	CCT3; CCT3; CCT3;	P49368; Q5SZX9;	TCPG_HUMA	Acetyl (Protein N-t	0	507440	610960	31865	0	0	0	0	0
MMGLEVLGEK	NSUN2	Q08J23	NSUN2_HUM	2 Oxidation (M)	4249400	4129700	4188800	36740	17263	28687	0	0	0
MMIPDCQR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA_HUM	2 Oxidation (M)	686690	746020	638000	34125	0	0	0	0	0
MMITSQDVLHSWAVPTLGLK	MT-CO2	P00403	COX2_HUM	2 Oxidation (M)	8865900	8245500	9678700	0	0	0	0	0	0
MMLDDIVSR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	2 Oxidation (M)	4712700	4792100	4946900	245420	189430	254180	0	0	0
MMLGTEGGEGFVVKVR	HNRNPH1; HNRNPI	P31943; D6R9D3;	HNRH1_HUM	Acetyl (Protein N-t	3280200	0	0	822210	748380	606370	400040	381230	327090
MMLMSTATAFYR	MGST1; MGST1; MG	P10620; F5H613;	MGST1_HUM	3 Oxidation (M)	2155100	1797300	2097300	0	0	0	0	0	0
MMLSTEGREGFVVK	HNRNPH2	P55795	HNRH2_HUM	Acetyl (Protein N-t	4492400	4226800	4148200	1820500	1689400	1908700	289550	252770	119140
MMMQSGR	SLC25A4; SLC25A6;	P12235; P12236;	ADT1_HUMA	3 Oxidation (M)	0	1298100	416400	0	0	20778	0	0	0
MMNGMKLSGREIDVR	HNRNPM; HNRNPM	P52272; A0A087	HNRPM_HUM	3 Oxidation (M);De	550250	516370	1332200	0	0	137480	0	0	0
MMPNEARLR	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2_HUMA	2 Oxidation (M);2 I	17118	28680	55090	0	0	0	0	0	0
MMPTPVILLK	CCT7; CCT7	Q99832; F8WBP8	TCPH_HUMA	Acetyl (Protein N-t	0	399300	324590	0	16641	17135	0	0	0
MMQEQITDKNSLAYQR	CWC22; CWC22	Q9HCG8; B7WP7	CWC22_HUM	2 Oxidation (M);De	720580	654330	660720	449890	0	22866	0	0	0
MMRPVSDQVQIK	CCDC47	Q96A33	CCD47_HUM	2 Oxidation (M)	934010	1019400	1442400	0	0	0	0	12887	0
MMTKEELEEEQRTEE	MXRA7; MXRA7	Q6ZR64; K7EQX	Q6ZR64_HUM	2 Oxidation (M)	530930	459400	411240	162090	104620	130130	0	0	0
MMVADVFSHR	USP11; USP11	P51784; G5E9A6	UBP11_HUM	2 Oxidation (M)	718870	526010	664060	0	0	0	0	0	0
MMVAGFK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M)	1282600	1070200	1221500	35316	43810	38250	0	0	0
MMVAGFKK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	2 Oxidation (M)	1873100	0	2387700	111150	123890	116260	0	0	0
MMYNEIGEAKK	EML1; EML1	G3V4H6; A0A3B	G3V4H6_HUM	Acetyl (Protein N-t	18828000	11492000	20142000	571210	0	973030	0	0	0
MNALFEGR	PNN	Q9H307	PINN_HUMA	Oxidation (M)	2151700	0	2053600	85671	72857	77963	0	0	0
MNALFEGR	PNN	Q9H307	PINN_HUMA	Oxidation (M);Deai	0	1288600	975440	0	0	0	0	0	0
MNASEFRR	DDC; DDC; DDC; DI	P20711; A0A087	DDC_HUMA	Acetyl (Protein N-t	2637400	2952400	0	0	0	304510	0	0	0
MNASEFRR	DDC; DDC; DDC; DI	P20711; A0A087	DDC_HUMA	Acetyl (Protein N-t	4304900	5279200	4584900	104540	43865	144010	0	0	0
MNDIVKEFEDR	RARS1	P54136	SYRC_HUMA	Oxidation (M);Deai	260690	271280	259050	0	0	0	0	0	0
MNEAFGDTK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M)	6408700	6189300	6812700	277090	288280	315610	0	0	0
MNEAFGDTK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B_HUMA	Oxidation (M);Deai	2649500	2262500	3441800	0	99101	71699	0	0	0
MNEFLENFEKNAHLR	NIPSNAP3A	Q9UFN0	NPS3A_HUM	Oxidation (M);Deai	306470	518770	376240	0	0	0	0	0	0
MNEVISLWK	SPTAN1; SPTAN1; S	O13813; A0A0D9	SPTN1_HUM	Oxidation (M)	1505600	1008300	1275200	0	0	0	0	0	0
MNEVYTRLGEMNNAVR	CEP70; CEP70	Q8NHQ1; B7Z2D	CEP70_HUM	Oxidation (M);2 De	0	0	0	0	0	697150	0	233280	274340
MNFDVIK	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	Acetyl (Protein N-t	355930	0	358070	0	0	0	0	0	0
MNFESFVKDLLLVR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Acetyl (Protein N-t	935930	0	857320	0	0	0	0	0	0
MNGDSRAAVVTSPPPTTAPHKER	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA_HUM	Acetyl (Protein N-t	0	0	0	521190	521990	617760	119420	120610	0
MNGTLDHPDQPDLDAIK	CELF1; CELF1; CEL	Q92879; G5EA30;	CELF1_HUM	Acetyl (Protein N-t	723810	668110	1133900	0	15880	0	0	0	0
MNGTLDHPDQPDLDAIKMFVGQVPR	CELF1; CELF1; CEL	Q92879; G5EA30;	CELF1_HUM	Acetyl (Protein N-t	0	2559600	319220	0	0	0	0	0	0
MNIFGGFR	SLC25A24	Q6NUK1	SCMC1_HUM	Oxidation (M)	0	956530	1423100	0	0	0	0	0	0
MNKSEDDESGAGELTREELR	MCM7	P33993	MCM7_HUM	Oxidation (M)	3161700	3229200	2665800	0	0	0	0	0	0
MNLASSFVNGFVNAAFGQDK	PSMD2	Q13200	PSMD2_HUM	Oxidation (M);Deai	222990	0	483310	0	0	0	0	0	0
MNLGVGAYRDDNGKPYVLPSVR	GOT2	P00505	AATM_HUM	Oxidation (M);Deai	3543700	2772300	8173800	41151	40630	0	0	0	0
MNLLNQQIQEELSR	GOLGB1	Q14789	GOGB1_HUM	Unmodified	0	0	0	0	94849	0	0	0	0
MNLQAQPK	MIDEAS; MIDEAS; M	Q6PJG2; C9JYU7	MDEAS_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MNLSAIQDR	ARL8B; ARL8A	Q9NVJ2; Q96BM9	ARL8B_HUM	Oxidation (M)	1138700	1472400	1268800	81719	0	0	0	0	0
MNPDLRR	ACOX1; ACOX1; AC	Q15067; I3L0T4;	ACOX1_HUM	Acetyl (Protein N-t	3643300	0	3711700	336940	334940	447200	28386	0	0
MNPIVVVHGGGAGPISK	ASRGL1; ASRGL1; /	Q7L266; E9PJK6;	ASGL1_HUM	Acetyl (Protein N-t	7317600	6064200	10684000	68662	92130	77908	0	0	0
MNPIVVVHGGGAGPISKDR	ASRGL1; ASRGL1; /	Q7L266; E9PJK6;	ASGL1_HUM	Acetyl (Protein N-t	1187700	1691400	1195300	46309	0	0	0	0	0
MNPNCARCGKIVYPTEK	LASP1; LASP1; LAS	Q14847; K7ESD6	LASP1_HUM	Acetyl (Protein N-t	0	0	0	182290	174390	179000	229950	230990	106330
MNPQSAFPQGK	SCP2	P22307	SCP2_HUMA	Oxidation (M)	0	0	0	357460	0	294290	0	0	0
MNQEKLAKLQAQVR	BTF3L4; BTF3; BTF	Q96K17; P20290;	BTL4_HUM	Acetyl (Protein N-t	0	0	0	755950	712100	752680	85544	0	63173
MNQEKLAKLQAQVR	BTF3L4; BTF3; BTF	Q96K17; P20290;	BTL4_HUM	Acetyl (Protein N-t	0	0	0	306690	268060	279720	0	25998	0
MNQKLLKLENLLR	MTIF2; MTIF2; MTI	P46199; B5MCU1	IF2M_HUMA	Acetyl (Protein N-t	117360	0	156860	0	0	0	0	0	0
MNQRDQPFMTIQR	CCDC148	B8ZZV3	B8ZZV3_HUM	Acetyl (Protein N-t	824110	3504100	994860	557570	625570	1486600	122940	89439	145380
MNRLFGK	CHMP5	Q9NZZ3	CHMP5_HUM	Acetyl (Protein N-t	0	2029900	1522700	101940	151720	133500	0	0	0
MNRTKGDEEEYWNSSKFK	VIPAS39; VIPAS39;	Q9H9C1; G3V549	SPE39_HUM	Acetyl (Protein N-t	292020	194270	0	0	0	0	0	0	0
MNSLTFK	DOCK7; DOCK7	Q96N67; A0A1B0	DOCK7_HUM	Oxidation (M);Deai	1526300	1480000	2193800	47037	71437	0	0	0	0
MNVDHEVNLLVEEIHR	ABRACL; ABRACL	Q9P1F3; Q5SZC9	ABRAL_HUM	Acetyl (Protein N-t	20993000	25277000	21005000	0	0	0	23784	0	0
MNVDHEVNLLVEEIHR	ABRACL; ABRACL	Q9P1F3; Q5SZC9	ABRAL_HUM	Acetyl (Protein N-t	1604700	1067900	2372300	0	0	0	0	0	0
MNVFDTDLQALSR	ATP2A3	Q93084	AT2A3_HUM	Oxidation (M)	851300	587910	856460	0	0	0	0	0	0
MNVFDTELK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Oxidation (M)	3696700	3405600	3820500	0	0	61995	0	0	0
MNVFDTELKGLSK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Oxidation (M)	1705000	1197000	867380	14135	0	14649	0	0	0
MNVLADALK	RPS15A; N/A; RPS15	P62244; H3BN98;	RS15A_HUM	Oxidation (M)	4698800	5026200	5453300	197100	220530	225290	14198	13134	9883.3
MNYQQQLANSAAIRAEIQR	AGAP1	Q9UPQ3	AGAP1_HUM	Acetyl (Protein N-t	0	1409500	0	0	0	0	0	0	0
MPDSTLPGSR	PTGFRN	Q9P2B2	FPRP_HUMA	Oxidation (M)	565850	0	544670	0	0	0	0	0	0
MPECYIR	LSM4; LSM4; LSM4	Q9Y4Z0; V9GZ56	LSM4_HUMA	Oxidation (M)	748190	813200	1090500	99441	0	75032	0	0	0
MPELVDFR	ACSL1; ACSL1; ACS	P33121; D6RER0;	ACSL1_HUM	Oxidation (M)	2140200	1772600	1838500	0	58873	16129	0	0	0
MPELVDFRQYVR	ACSL1; ACSL1; ACS	P33121; D6RER0;	ACSL1_HUM	Oxidation (M)	392930	497330	399300	0	0	0	0	0	0
MPEMHFKAPK	AHNAK	Q09666	AHNK_HUM	2 Oxidation (M)	0	0	900570	0	0	0	0	0	0
MPFPVNHGASSEDTLLKDAAK	UCHL1; UCHL1	P09936; D6RE83	UCHL1_HUM	Oxidation (M);Deai	1179700	1041700	2515100	0	0	0	0	0	0
MPFQTSPGGK	MECP2	P51608	MECP2_HUM	Oxidation (M)	579860	0	409380	163680	154750	126430	0	0	16086
MPFTEKIMATPEQVGK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	2 Oxidation (M)	700280	807990	1292400	0	34719	0	0	0	0
MPGNPYSSNEPGIKPLMR	UBR4; UBR4	Q5T4S7; X6R960	UBR4_HUMA	2 Oxidation (M)	1247800	647540	592620	26550	0	0	0	0	0
MPGNPYSSNEPGIKPLMR	UBR4; UBR4	Q5T4S7; X6R960	UBR4_HUMA	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
MPHGYDTQVGER	ABCB7; ABCB7; AB	O75027; A0A5F9	ABCB7_HUM	Oxidation (M)	1534200	1731300	1089500	0	0	0	0	0	0
MPKMTMPKLGR	PRX; PRX; PRX	Q9BXM0; A0A6Q	PRAX_HUM	3 Oxidation (M);M	0	0	0	0	0	0	0	0	0
MPLATSTDHGHNLQTVQLLIK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	1849800	1653400	1670400	0	21924	0	0	0	0
MPLFEHYTR	LAP3	P28838	AMPL_HUM	Oxidation (M)	504790	0	572110	44703	0	0	0	0	0
MPLPAPSLSHQPPPAPR	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Oxidation (M)	1770700	1507500	1499300	86079	87647	76054	0	0	0
MPPRTPAEASSTGQTGPQSAL	MRPS18B; MRPS18	Q9Y676; A0A0G2	RT18B_HUM	Oxidation (M)	2204300	176160	2562900	194690	241560	249210	0	0	0
MPPYDEQTQAFIDAAQEAR	PRKCSH; PRKCSH;	P14314; K7ELL7;	GLU2B_HUM	Oxidation (M)	4782100	3936000	3834400	92702	0	0	0	0	0
MPSESAAQSLAVALPLQTK	PLRG1; PLRG1	O43660; D6RA26	PLRG1_HUM	Oxidation (M)	6848300	6085700	5554500	257370	100580	0	0	52769	0
MPSGEFAR	PCNA	P12004	PCNA_HUMA	Oxidation (M)	15003000	14003000	15504000	242630	305940	228850	11760	20394	18676
MPSGEFAR	PCNA	P12004	PCNA_HUMA	Unmodified	435460	399160	497450	0	0	0	0	0	0
MPSLPSYK	TKT; TKT; TKT	P29401; A0A0B4	TKT_HUMA	Oxidation (M)	10016000	8324800	8909800	899260	842080	881410	48053	14155	18937
MPSRKFADGEVVRGR	LBR; LBR; LBR; LBI	Q14739; C9JES9;	LBR_HUMA	Acetyl (Protein N-t	0	4129000	0	0	0	0	0	0	0
MPSSGFAAEGR	ABRAXAS2	Q15018	ABRX2_HUM	Oxidation (M)	654160	689480	1109000	172390	169950	235440	23334	14535	42414
MPTGEIEIK	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM_HUM	Oxidation (M)	1426000	1328500	961280	0	0	0	0	0	0
MPTKEDEEEDEPVVIK	TPX2	Q9ULW0	TPX2_HUMA	Oxidation (M)	1200100	1304200	1036300	0	0	0	0	0	0
MPTPVIK	FH	P07954	FUMH_HUM	Oxidation (M)	1087200	1306400	1515300	0	0	0	0	0	0
MPVKPDDEPPDLSSIIEPITEER	CHD7	Q9P2D1	CHD7_HUMA	Oxidation (M)	1148100	1117200	865220	0	0	0	0	0	0
MQAGKPILYSYFR	GSTZ1; GSTZ1; GST	O43708; G3V5T0;	MAAI_HUMA	Acetyl (Protein N-t	1887700	1612100	1677500	83782	60559	75048	78454	63182	65873
MQAHELFR	ACSL1; ACSL1; ACS	P33121; D6RER0;	ACSL1_HUM	Acetyl (Protein N-t	2184800	2348100	2572400	427850	466410	487010	0	0	0
MQAHIQDLEEQLDEEEGAR	MYH10	P35580	MYH10_HUM	Oxidation (M)	0	1470000	1309500	0	0	0	0	0	0
MQALEPYPANESSK	RNMT; RNMT	O43148; K7EP06	MCES_HUM	Oxidation (M)	713300	0	604950	0	0	0	0	0	0

MQAQAMLEGSPQLNMVGLFR	SLC25A24	Q6NUK1	SCMC1_HUM	3 Oxidation (M)	1737800	982520	995310	0	0	0	0	0	0
MQAQLLELR	GRIPAP1; GRIPAP1;	Q4V328; A0A087	GRAP1_HUM	Oxidation (M)	968150	0	761730	25897	30446	0	0	0	0
MQAQMQMQMQGGDGDGGALGHHV	SEPTIN2; SEPTIN2;	Q15019; H7C1T1;	SEPT2_HUM	4 Oxidation (M)	7845400	9781500	5886200	418200	636810	496790	0	0	0
MQAQWER	SAFB; SAFB	Q15424; K7EII0	SAFB1_HUM	Oxidation (M)	1944300	2368700	2625800	0	62426	0	0	0	0
MQASGYVNTQDLIYRK	N/A	N/A	N/A	Oxidation (M);Deam	1774700	0	0	0	0	0	0	0	18712
MQASIEK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	677030	438780	26819000	656840	0	0	0	0	0
MQASIEK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Unmodified	1256600	1374200	1165100	0	0	0	0	0	0
MQASIEKGGSLPK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	10671000	9775700	12693000	171820	175770	0	52657	0	19193
MQASIEKGGSLPK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Metl	6578100	6421000	7390100	442730	636520	429640	13555	0	0
MQASIEKGGSLPKVEAK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	7204000	7450700	5698100	224130	228100	325270	0	0	0
MQASIEKGGSLPKVEAK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Metl	2680300	2586500	2227000	70141	0	33415	0	0	0
MQASYREHVKEVQQLQGK	RRBP1; RRBP1; RR1	Q9P2E9; A0A087	RRBP1_HUM	Oxidation (M)	2292800	1587100	3397200	250420	317540	0	0	0	0
MQEAMTQEVSDVFSDTTTPIK	VCL	P18206	VINC_HUMA	2 Oxidation (M)	1741100	0	2620200	22405	0	0	0	0	0
MQEEVVRREEAAVDAQQQKR	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	1865700	2455000	1343100	355870	327110	286090	0	38249	0
MQEHSDQVPVGNIPR	MCM7; MCM7	P33993; C9J8M6	MCM7_HUM	Oxidation (M)	0	0	2250100	0	0	0	0	0	0
MQEINNQKANHKJEELEKAK	KIF14	Q15058	KIF14_HUMA	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
MQELALSEGALPR	DNAJC13; DNAJC13	O75165; A0A3B3	DJC13_HUM	Oxidation (M)	0	0	0	67114	104480	47370	0	0	0
MQELQEAQNAR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2_HUMAN	Oxidation (M)	1136300	1326400	1735100	0	0	0	0	0	0
MQETEFKK	N/A	N/A	N/A	Oxidation (M)	0	0	792920	0	0	0	0	0	0
MQEVVANLQYDDGSGMKR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	2 Oxidation (M)	5015200	4730600	0	98108	0	0	0	0	0
MQEVVANLQYDDGSGMKR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	2 Oxidation (M);De	0	0	268990	0	0	0	0	0	0
MQFGVPLAR	GCDH; GCDH	Q92947; K7ESA6	GCDH_HUM	Oxidation (M)	3564600	3147300	3144200	0	46353	80381	0	0	0
MQGLMFR	FAM136A	Q96C01	F136A_HUM	2 Oxidation (M)	973680	1276600	1444100	30331	0	46822	0	0	0
MQGNVMELVGSNPPQRNWK	DPP6	E9PF59	E9PF59_HUM	2 Oxidation (M);M	0	0	0	0	0	0	0	0	0
MQGQEAVLAMSSR	SF3B3	Q15393	SF3B3_HUM	2 Oxidation (M)	1555700	1687800	1214400	119300	94162	100820	0	0	0
MQGQSVEAALR	IKBKG; IKBKG; IKB	Q9Y6K9; C9JN51	NEMO_HUM	Oxidation (M)	443280	553930	915900	53039	33880	0	0	0	0
MQGSLEAHVNGFR	SUPT16H	Q9Y5B9	SP16H_HUM	Oxidation (M);Deam	10968000	10804000	10528000	186970	132370	166720	0	0	0
MQHLIAR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Oxidation (M)	36324000	25905000	35878000	967640	1242800	99227	0	0	0
MQHNLEQQIQAR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Oxidation (M)	3520400	1929100	1228500	317030	388580	443260	0	0	0
MQHSLAGQTYAVPLIQPDLR	WASH2P; WASH3P	Q6VEQ5; C4AMC	WASH2_HUM	Oxidation (M)	1120200	936080	1159600	0	0	0	0	0	0
MQILEDHNKQLESQLHR	UTRN; DMD; DMD;	P46939; P11532;	UTRN_HUM	Oxidation (M)	0	632070	1236100	45295	0	0	0	0	0
MQIMTHLPGAISDMIYIR	BDH1; BDH1	Q02338; E9PCG9	BDH_HUMA	3 Oxidation (M)	1579200	3063000	2564800	0	0	0	0	0	0
MQKEITALAPSTMK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	2 Oxidation (M);M	14486000	11731000	10204000	344020	311590	380690	0	38114	225460
MQKEITALAPSTMK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	2 Oxidation (M)	107270000	117930000	89194000	2391800	2457600	2519500	1019700	1145100	1180500
MQKEITALAPSTMKIK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	2 Oxidation (M)	28247000	28455000	31405000	3372800	2944800	4167400	815500	945570	849090
MQKEITALAPSTMKIK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	2 Oxidation (M);M	12931000	28515000	40435000	2274700	1819300	1783000	330030	0	0
MQKEITALAPSTMKIK	ACTG1; ACTC1; AC	P63261; P68032;	ACTG_HUM	2 Oxidation (M);2 I	3536300	3308400	3196800	0	0	0	0	0	0
MQLKPMEINPEMLNK	UCHL1; UCHL1; UC	P09936; D6RF53;	UCHL1_HUM	3 Oxidation (M)	10926000	12310000	9774000	0	0	0	0	0	0
MQLKPMEINPEMLNKVLSR	UCHL1; UCHL1; UC	P09936; D6RF53;	UCHL1_HUM	Acetyl (Protein N-t	2106200	1240000	1279400	0	0	0	0	0	0
MQLLEIITTEK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	Oxidation (M)	951390	1332600	1237200	14527	0	0	0	0	0
MQLSGEGAK	SLC25A11; SLC25A1	Q02978; I3L1P8	M2OM_HUM	Oxidation (M)	1950100	2261200	1303200	0	0	0	0	0	0
MQMGKRWQSPVTK	SRRM1; SRRM1	A9Z1X7; M0R088	A9Z1X7_HUM	2 Oxidation (M);M	0	0	0	0	35108	0	0	0	0
MQMLEDEDDLAYAETEKK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	2 Oxidation (M)	1156000	1044300	961870	70852	38839	0	0	38114	225460
MQNDAGEFVDLYVPRK	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21_HUMA	Acetyl (Protein N-t	1325000	1875900	1368800	64124	55189	52020	0	30868	0
MQNDAGEFVDLYVPRK	RPS21; RPS21; RPS2	P63220; Q9BYK1	RS21_HUMA	Acetyl (Protein N-t	0	846600	1174600	0	65694	54209	231210	170670	185700
MQNDSILKSELGNQSPSTSSR	TOR1AIP1; TOR1AIP	Q5JTV8; A0A0A0	TOIP1_HUM	Oxidation (M);Deam	688320	686290	1940300	267470	243410	400260	0	0	0
MQNDVKLPQGQR	SLC25A10; SLC25A1	Q9UBX3; F6RGN	DIC_HUMAN	Oxidation (M);Deam	1128700	1066800	1200000	70878	0	90699	0	0	0
MQPQSVLHSGYFHPLLR	ALAD; ALAD; ALAI	P13716; B7ZBK6	HEM2_HUM	Acetyl (Protein N-t	1987200	1632800	1637500	0	30219	0	51944	0	18366
MQQENMKPQEQLTLEPYER	FBL; FBL; FBL	P22087; M0R299	FBRL_HUMA	2 Oxidation (M)	2000100	0	2563200	0	0	0	0	0	0
MQQENMKPQEQLTLEPYER	FBL; FBL; FBL	P22087; M0R299	FBRL_HUMA	2 Oxidation (M);De	3723900	3917400	3441800	0	0	0	0	0	0
MQQNIQELEEQLEEEESAR	MYH9	P35579	MYH9_HUM	Oxidation (M)	5866700	4896500	5412900	0	0	0	0	0	0
MQQNIQELEEQLEEEESARQKLQLEK	MYH9	P35579	MYH9_HUM	Oxidation (M)	0	0	2910500	0	0	0	0	0	0
MQQQLDEYQELLDIK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M)	9460900	7206600	7451000	0	83236	0	0	37005	22155
MQQSVYVK	KTN1	Q86UP2	KTN1_HUMA	Oxidation (M)	575530	693880	0	0	0	0	0	0	0
MQQYDLQGQPYGTR	NCLN	Q969V3	NCLN_HUM	Oxidation (M)	1000000	971740	544020	0	61443	46056	0	0	0
MQREEQCILYLGPR	FKBP5	Q13451	FKBP5_HUM	Oxidation (M)	1748300	2023700	1507800	0	28676	29102	0	0	0
MQREHEFKMER	C4orf54	D6RIA3	CD054_HUM	Oxidation (M);Metl	1340500	1210300	0	0	0	0	0	0	0
MQRRDDPAAR	KHDRBS1	Q07666	KHDR1_HUM	Acetyl (Protein N-t	0	0	0	163150	166640	164150	0	0	0
MQSLDKDIVALMVR	TOP2A	P11388	TOP2A_HUM	2 Oxidation (M)	4468600	8235600	3281800	0	0	0	0	0	0
MQSLSLNK	PDAP1	Q13442	HAP28_HUM	Oxidation (M)	5133200	4471000	3904300	824750	1159800	934800	98624	0	0
MQSNKTFNLEK	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUM	Acetyl (Protein N-t	2534800	4275700	3526000	291090	316210	302630	0	29608	29498
MQSNKTFNLEK	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUM	Acetyl (Protein N-t	4148600	3710900	3601100	201180	424880	271850	0	0	0
MQSNKTFNLEKQNHTPR	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUM	Acetyl (Protein N-t	4527800	1534700	5112800	377460	255620	422390	51066	119420	0
MQSNKTFNLEKQNHTPR	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUM	Acetyl (Protein N-t	6339200	2479000	6723700	512370	56211	231320	18117	93013	0
MQSTLISAAR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Oxidation (M)	845690	1103600	829430	0	0	0	0	0	0
MQTDKPFDQTTISLQMGTNK	CNN3; CNN3	Q15417; E9PDU6	CNN3_HUM	2 Oxidation (M)	1911700	1840200	0	139690	217490	154680	0	0	0
MQTFSPAGSK	LAMA5	O15230	LAMA5_HUM	Oxidation (M)	814320	791900	591460	56675	53806	63208	0	0	0
MQTLPVASALSSHR	VGLL4	Q14135	VGLL4_HUM	Oxidation (M)	1520600	898280	995220	128380	114250	118720	0	0	0
MQTPRPAMR	KCTD17; KCTD17	Q8N5Z5; A0A087	KCD17_HUM	Acetyl (Protein N-t	0	1979800	2431400	142890	0	0	0	0	0
MQYAPNTQVEILPQGHESPIFK	CAPG; CAPG	P40121; H7C0X8	CAPG_HUMA	Oxidation (M)	1564000	1049300	1263200	0	0	0	0	0	0
MRAAFTAFEEAQLPR	CCDC124	Q96CT7	CC124_HUM	Oxidation (M)	3654200	2969300	2639000	91932	89050	55964	30500	0	25312
MRAELGEYIR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1438300	1499700	1331300	0	38582	0	0	0	0
MRAEMELGLR	HK1	P19367	HXK1_HUM	2 Oxidation (M)	1441700	865880	920580	49730	0	0	0	0	0
MRAGKEANNRAR	GPRASP1	Q5JY77	GASP1_HUM	Oxidation (M);3 M	0	0	0	119370	0	114670	0	0	0
MREDYDSVEQDGDEPGPQR	RBM8A	Q9Y5S9	RBM8A_HUM	Oxidation (M)	31337000	33315000	32153000	2920000	2690500	3014900	0	0	0
MREHVMNEVDTNKDR	NUCB2; NUCB2; NU	P80303; H0YD18;	NUCB2_HUM	2 Oxidation (M);De	423970	572630	1009800	16629	0	32895	0	0	0
MRETAFEEDVQLPR	GPRC5B	Q9NZH0	GPC5B_HUM	Oxidation (M)	0	0	0	90147	93911	137770	32772	0	0
MRGEAEAFAIGAR	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1_HUM	Oxidation (M)	2769500	2588600	3250700	594830	1074900	617670	25213	20021	31567
MRGHPSLRPPWHWASAAR	ZFP64; ZFP64	A2A2N5; A2A2N	A2A2N5_HUM	Oxidation (M);3 M	7232700	8628700	7915400	1273300	1656500	1729900	180160	181150	202210
MRHIPLAPGSDWRDLPNIEVR	DNMT1; DNMT1; DI	P26358; K7ENW7	DNMT1_HUM	Oxidation (M)	1581100	1996300	1442500	0	0	0	0	0	0
MRHVISYSLSPFEQR	UQCRQ	O14949	QCR8_HUMA	Oxidation (M)	1476700	1067100	1247900	157030	190590	162210	0	11345	0
MRIESLSSQLSNLQK	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	Oxidation (M)	17941000	13571000	14473000	110040	0	77282	0	0	0
MRIESLSSQLSNLQK	LMNB1; LMNB1; LM	P20700; A0A0D9	LMNB1_HUM	Oxidation (M);Deam	1040200	190240	925830	0	0	0	0	0	0
MRIESLSSQLSNLQKESR	LMNB1; LMNB1	P20700; E9PBF6	LMNB1_HUM	Oxidation (M)	1813100	0	0	29493	0	0	0	0	0
MRIFAPNHVVAK	RPL18A; RPL18A; R	Q02543; M0R1A7	RL18A_HUM	Oxidation (M);Deam	445000	0	325940	0	0	0	0	0	0
MRINNVPAEGENEVNNELANR	CYRIB; CYRIB	Q9NUQ9; A0A1W	CYRIB_HUM	Oxidation (M);3 De	674180	0	640510	0	42078	0	0	0	0
MRINNVPAEGENEVNNELANR	CYRIB; CYRIB	Q9NUQ9; A0A1W	CYRIB_HUM	Oxidation (M);Deam	703400	770830	1114300	0	0	0	0	0	0
MRINNVPAEGENEVNNELANR	CYRIB; CYRIB	Q9NUQ9; A0A1W	CYRIB_HUM	Methyl (KR);4 Dea	0	1782800	0	0	0	0	0	0	31528
MRLESLSYQLSGLQK	LMNB2	Q03252	LMNB2_HUM	Oxidation (M)	21937000	25861000	17577000	232730	205140	90406	0	0	0
MRNGIDILVGTPGR	DDX21	Q9NR30	DDX21_HUM	Oxidation (M);Deam	2900600	2890300	2569600	0	0	33982	0	0	0
MRNGYELSPTAAANFTR	PSMB2	P49721	PSB2_HUMA	Oxidation (M);2 De	549100	482060	445320	0	0	0	58462	0	0
MRNGYELSPTAAANFTR	PSMB2	P49721	PSB2_HUMA	Oxidation (M);Deam	0	630450	1027800	0	0	19904	0	0	0
MRNGYELSPTAAANFTRR	PSMB2	P49721	PSB2_HUMA	Oxidation (M);2 De	857030	1122200	1022700	0	0	0	0	0	0
MRNQLELAAR	OXA1L; OXA1L; OX	Q15070; J3KNA0;	OXA1L_HUM	Oxidation (M);Deam	736510	980630	389160	0	0	0	0	0	0
MRQGEEVFQSLSK	GCN1	Q92616	GCN1_HUMA	Oxidation (M)	1057700	852130	1288600	0	0	0	0	0	0
MRRMLVVEVANGR	TSEN34; TSEN34; TS	E7EQB3; A0A0G	E7EQB3_HUM	Acetyl (Protein N-t	308580	375200	709650	17127	0	14716	0	0	0
MRSGNCRQR	FBLN5	G3V4U0	G3V4U0_HUM	Acetyl (Protein N-t	1627700	871170	876350	126890	103360	0	0	0	0
MRSSENFDELLK	CRABP1	P29762	RABP1_HUM	Oxidation (M)	3343400	3085600	3504900	0	0	0	0	0	0
MRSSENFDELLKALGVNAMLR	CRABP1	P29762	RABP1_HUM	2 Oxidation (M)	259180	0	1171300	0	0	0	0	0	0
MRYVASYLLAALGGNSSPSAK	RPLP2	P05387	RLA2_HUMA	Oxidation (M);Metl	0	269790	0	0	0	0	0	0	0
MSAATVLSR	GATAD2A	Q86YP4	P66A_HUMA	Oxidation (M)	403480	0	357810	0	0	0	0	0	0
MSADNQLQVIFITNDRR	DIS3; DIS3; DIS3	Q9Y2L1; G3V1J5	RRP44_HUM	2 Methyl (KR);Dea	623670	287910	0	0	0	0	0	0	0
MSAEINEIIR	VCL	P18206	VINC_HUMA	Oxidation (M)	2477200	2250400	1585200	231680	192250	191770	0	0	0
MSAKSKGNPSSSCPAEGPPAASKTK	PRR16	Q569H4	LARGN_HUM	Acetyl (Protein N-t	0	0	6383600	0	39381	0	0	0	0
MSARTPLPTVNER	MARK1; MARK1; M	Q9P0L2; A0A7Z0	MARK1_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MSASQLEALCPQVINAALALAAKPQSK	CTNNA1; CTNNA1;	P35221; E5RGD2;	CTNA1_HUM	Oxidation (M)	561650	0	593500	0	0	0	0	0	0
MSATFIGNSTAIQELFK	TUBB2A; TUBB2B;	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M);Deam	6601600	6591600	6480000	0	0	0	0	0	0
MSATFIGNSTAIQELFK	TUBB2A; TUBB2B;	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M)	1466500	1491500	1753000	0	0	0	27647	17007	0
MSATFIGNSTAIQELFKR	TUBB2A; TUBB2B;	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M)	4532500	5992200	3210000	0	0	0	0	0	0
MSATFIGNSTAIQELFKR	TUBB2A; TUBB2B;	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M);Deam	76601000	108420000	112410000	0	0	36129	0	0	0
MSATFIGNSTAIQELFKR	TUBB2A; TUBB2B;	Q13885; Q9BVA1	TBB2A_HUM	Oxidation (M);Metl	2167000	1175900	1217700	0	0	0	0	0	0
MSAVDGQR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Oxidation (M)	401270	1314300	425850	0	19007	36800	0	0	0
MSDEEILEK	PAK1; PAK1; PAK1;	Q13153; E9PM17	PAK1_HUMA	Oxidation (M)	0	299370	256710	0	0	0	0	0	0
MSDGLFLQK	IDH3A; IDH3A	P50213; H0YL72	IDH3A_HUM	Oxidation (M)	5659800	988630	3221800	86809	61644	216060	0	0	0
MSDLTPVHFTPLDSSVDR	NOSIP; NOSIP; NOSI	Q9Y314; A0A075	NOSIP_HUM	Oxidation (M)	1388600	1773200	1371800	50539	0	0	0	0	0
MSEITTSSSAPFTQPLSSNEIFR	POLR3C; POLR3C	Q9BUI4; E9PHH9	RPC3_HUMA	Oxidation (M)	1135900	1471200	1077600	0	0	0	0	0	0
MSEITTSSSAPFTQPLSSNEIFR	POLR3C; POLR3C	Q9BUI4; E9PHH9	RPC3_HUMA	Oxidation (M);Deam	1049800	0	309490	0	0	0	0	0	0
MSELSSSRPK	HLTF; HLTF	Q14527; A0A0C4	HLTF_HUMA	Oxidation (M)	0	0	175270	0	0	0	0	0	0
MSFVEKVNK	CENPF	P49454	CENPF_HUM	Oxidation (M);Metl	730280	982810	956890	27257	29614	36308	0	0	0
MSGGWELELNGTEAK	C1QBP; C1QBP; C1(	Q07021; B3L3Q7;	C1QBP_HUM	Oxidation (M);Deam	720120	9952800	833720	0	0	0	0	0	0
MSGKHDVGAYMLMYK	PRKDC	P78527	PRKDC_HUM	3 Oxidation (M)	2605300	2374400	2365600	99112	143270	63572	0	0	0
MSGREGGK	TMA7	Q9Y2S6	TMA7_HUM	Acetyl (Protein N-t	254740	0	0	0	0	0	0	0	0
MSINAEEVVVGDLVEVK	ATP1A1	P05023	AT1A1_HUM	Oxidation (M)	1234300	525640	1086300	0	0	0	0	0	0
MSISALGGR	ZNF185; ZNF185	O15231; H7BZT5	ZN185_HUM	Oxidation (M)	0	71787	0	0	0	0	0	0	0
MSLAGGRAPR	VPS72; VPS72	Q15906; A0A1W2	VPS72_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MSLDPADLTHDTTGLTAK	NENF	Q9UMX5	NENF_HUMA	Oxidation (M)	3352400	2861700	2469600	42198	0	0	0	0	0
MSLDPADLTHDTTGLTAKELEALDEVFTK	NENF	Q9UMX5	NENF_HUMA	Oxidation (M)	509650	0	323360	0	0	0	0	0	0
MSLFKAR	BBS9; BBS9; BBS9;	Q3SYG4; A0A5F9	PTHB1_HUM	Acetyl (Protein N-t	0	0	0	116880	280850	128300	67688	58908	23190
MSLFYAEATPMLK	CYRIA; CYRIB; CYR	Q9H0Q0; Q9NUQ	CYRIA_HUM	2 Oxidation (M)	3954400	6434900	7397700	184990	93235	96501	0	0	0
MSLNERFTNMLKNK	CHTOP; CHTOP	Q9Y3Y2; A0A087	CHTOP_HUM	2 Oxidation (M);M	214670	0	260440	22508	0	0	0	0	0
MSLPDVDLDLKGPK	AHNAK	Q09666	AHNK_HUMA	Oxidation (M)	0	0	0	176940	172650	147370	110090	85142	83884
MSLQTDEDEHSIEMHLPYTAK	MEMO1	Q9Y316	MEMO1_HUM	2 Oxidation (M)	1041900	820960	1245900	0	47696	0	0	0	0

MSLSPDGMLLAAIHFSGK	NBAS; NBAS	A2RRP1; H7C1U4	NBAS	HUMA	Oxidation (M)	0	0	0	0	31144	0	0	0	0
MSMANRGQNQPVLNITNK	CPS1; CPS1	P31327; Q5R211	CPSM	HUMA	2 Oxidation (M);M	0	256040	0	0	0	0	0	0	0
MSMKEVDEQMLAIQSK	TUBB6; TUBB3; N/A	Q9BUF5; Q13509	TBB6	HUMA	3 Oxidation (M)	1373600	1283800	1231200	0	0	0	0	0	0
MSMKEVDEQMLNVQNK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A	HUM	3 Oxidation (M)	10648000	8704900	8137900	365990	143780	722110	0	0	0
MSMKEVDEQMLNVQNK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A	HUM	3 Oxidation (M);De	293560	384470	448100	0	0	0	0	0	0
MSMKEVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A	HUM	3 Oxidation (M);2 1	9698600	10149000	8588300	0	0	0	0	0	0
MSMKEVDEQMLNVQNKNSSYFVEWIPNNVK	TUBB2A; TUBB; TU	Q13885; P07437;	TBB2A	HUM	3 Oxidation (M);De	0	0	2626000	0	0	0	0	0	0
MSNADFAK	SART3; SART3	Q15020; A0A499	SART3	HUM	Oxidation (M)	1045600	980770	983600	88387	70947	0	0	0	0
MSNADFAK	SART3; SART3	Q15020; A0A499	SART3	HUM	Oxidation (M);Deai	0	411100	570670	0	0	23636	0	0	0
MSNYDTDLFVPYFEAIQK	AARS1; AARS1; AA	P49588; A0A6Q	SYAC	HUMA	Oxidation (M)	575280	422620	333620	0	0	0	0	0	0
MSPPPSGFGER	RAVER1; N/A; RAV	E9PAU2; K7EQG	E9PAU2	HUM	Oxidation (M)	389600	512760	447100	62580	57983	75632	0	0	0
MSPYKDILETHLR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	6109900	7162700	6096600	0	0	0	0	0	0
MSQEEVNVFR	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	Oxidation (M)	1421900	1313000	1221700	0	72406	0	0	0	0
MSQEEVNVFRLEMEGITVK	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	2 Oxidation (M)	0	1614600	0	0	0	0	0	0	0
MSQLEVK	DSP	P15924	DESP	HUMA	Oxidation (M)	6989000	6659000	8076600	0	268740	261010	0	0	0
MSQLEVKEKELNK	DSP	P15924	DESP	HUMA	Oxidation (M)	0	1310200	1417500	64531	67953	56870	0	0	0
MSQMFMKLATYLRMIK	DCTN2	F8VX93	F8VX93	HUM	2 Oxidation (M);2 1	210920	0	0	0	0	0	0	0	0
MSQVAPSLSALIGEAVGAR	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Oxidation (M)	2611200	2454100	3105900	0	0	0	0	0	0
MSQVPAPVPLMSLR	SRRM2	Q9UQ35	SRRM2	HUM	2 Oxidation (M)	3769000	3344500	2762900	236560	225160	283200	38376	0	39248
MSQVQRVHSQAAKAEFEK	DBI	B8ZWD1	B8ZWD1	HU	Acetyl (Protein N-t	0	718300	0	0	0	0	0	0	0
MSQYLESMQIGDTIEFR	CYB5R3; CYB5R3	P00387; B1AHF3	NB5R3	HUM	2 Oxidation (M)	1812100	1557400	3670200	0	0	0	0	0	0
MSRTNRPPLSLSRMIR	RPL18; RPL18; RPL	Q07020; F8VUA6	RL18	HUMA	Acetyl (Protein N-t	90965	53159	0	0	0	0	0	0	0
MSSFGDFVALSDVCDVPTAK	ATIC	P31939	PUR9	HUMA	Oxidation (M)	1860500	369340	970790	0	0	0	0	0	0
MSSPLADAK	NUP153	P49790	NU153	HUM	Oxidation (M)	589350	1301000	0	0	0	0	0	0	0
MSSPTDASVICR	SUSD2	Q9UGT4	SUSD2	HUM	Oxidation (M)	958080	1261200	923070	0	0	0	0	0	0
MSSSPVNVKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Acetyl (Protein N-t	995640	1759000	0	0	0	123370	0	0	0
MSSTFIGNSTAIQELFK	TUBB3; N/A	Q13509; A0A0B4	TBB3	HUMA	Oxidation (M);Deai	1234500	572940	885820	0	0	0	0	0	0
MSSTFIGNSTAIQELFKR	TUBB3; N/A	Q13509; A0A0B4	TBB3	HUMA	Oxidation (M);Deai	11227000	7575300	6483700	0	0	0	0	0	0
MSSTFIGNSTAIQELFKR	TUBB3; N/A	Q13509; A0A0B4	TBB3	HUMA	Oxidation (M);Metl	123910	137590	170690	0	0	0	0	0	0
MSSTIFSTGGKDPLSANHSLKPLPSVPEEK	PAK2	Q13177	PAK2	HUMA	Oxidation (M);Deai	1508300	2041600	1730000	0	0	0	0	0	0
MSSVFEDQNAATHLIR	PDP1	Q9P0J1	PDP1	HUMA	Oxidation (M)	1159100	1064300	1222300	69446	71612	80254	0	0	0
MSSYAFFVQTCR	HMGB2; HMGB1P1;	P26583; B2RPK0;	HMGB2	HUM	Oxidation (M)	1337700	1594800	1584000	35659	0	29685	0	0	0
MSTEEIIQR	PSMC3; PSMC3; PS	P17980; E9PN50;	PRS6A	HUM	Oxidation (M)	3857800	3090000	3090400	164980	229180	234560	0	0	0
MSTGTFVVSQPLNYR	ALDH9A1	P49189	AL9A1	HUM	Oxidation (M)	0	3482600	1421100	0	0	0	0	19619	0
MSTSPEAFLALR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	15058000	10115000	11009000	113740	153210	156950	0	19360	20571
MSTVSELR	KIF2C; KIF2C; KIF2	Q99661; Q5JR91;	KIF2C	HUM	Oxidation (M)	555210	0	336920	0	0	0	0	0	0
MSVDAVEIETLRK	GTF2I; GTF2I	P78347; A0A494	GTF2I	HUM	Oxidation (M)	3052500	1745200	1205700	0	0	0	0	0	0
MSVIWDK	DPYSL3; DPYSL2; I	Q14195; Q16555;	DPYL3	HUM	Oxidation (M)	2754300	3353600	3720900	79049	106150	108680	0	27375	39024
MSVIWER	DPYSL5	Q9BPU6	DPYL5	HUM	Oxidation (M)	1562100	5433800	4575900	0	0	0	0	0	0
MSVLSEVTASSR	ARMC8; ARMC8; AI	Q8IUR7; G5E9V6	ARMC8	HUM	Oxidation (M)	0	1143400	0	0	0	0	0	0	0
MSVQPTVSLGGFEITPPVVLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Oxidation (M)	200860000	90687000	155570000	54386	0	0	24773	0	36347
MSVSMTMNGAVIPVLANFIVTGEEQGVPKEK	MMUT	P22033	MUTA	HUM	3 Oxidation (M);De	420670	339190	0	0	0	0	0	0	0
MSVTEGGIKYPETTEGGRPK	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUMA	Oxidation (M)	1183600	894430	1317900	0	147230	0	0	0	0
MSWCNELRLPALKQHSIGR	VDAC2	A2A3S1	A2A3S1	HUM	2 Methyl (KR)	2849600	2186600	4832400	0	0	0	0	0	0
MSYEPNKDPYGSMR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	2 Oxidation (M)	1036700	1121200	1077100	38154	31451	50749	0	0	0
MTADGRLPADQR	SLC25A11; SLC25A	Q02978; I3L1P8	M2OM	HUM	Oxidation (M)	625210	1269400	1516600	122710	207110	197400	0	0	0
MTAEEMASDELK	TCEA1; TCEA1; TCI	P23193; A0A1W	TCEA1	HUM	2 Oxidation (M)	471220	957420	278070	0	0	0	0	0	0
MTAEEMASDELKEMR	TCEA1; TCEA1; TCI	P23193; A0A1W	TCEA1	HUM	3 Oxidation (M)	5730000	5727500	4966500	144640	83908	155610	0	0	0
MTAEEMASDELKEMRK	TCEA1; TCEA1; TCI	P23193; A0A1W	TCEA1	HUM	3 Oxidation (M)	6116900	5452100	10685000	0	40969	42471	0	0	0
MTAIIFSDYR	GLG1; GLG1; GLG1	Q92896; H3BQU9	GSLG1	HUM	Oxidation (M)	1675300	2056000	1170300	83232	69395	66586	0	0	0
MTAMDNASKNASEMIDKLTLTFNR	ATP5F1C	P36542	ATPG	HUMA	3 Oxidation (M);2 1	517340	327780	316850	0	0	0	0	0	0
MTAQELANGIPDSGHLYASIR	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP	HUM	Oxidation (M);Deai	5002400	3624600	3811400	0	0	0	0	0	0
MTDFDRFK	RPL14; RPL14	P50914; E7EPB3	RL14	HUMA	Oxidation (M)	0	1209200	0	0	0	0	0	0	0
MTDLSKGVIEEPK	GID8	Q9NWU2	GID8	HUMA	Oxidation (M);Metl	451530	459710	391260	34792	39852	54458	0	0	0
MTDQEAIQDLWQWR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Oxidation (M)	61857000	55549000	66338000	20474	9348.3	0	0	0	0
MTDQEAIQDLWQWRK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Oxidation (M)	27488000	23920000	20852000	45897	26402	35293	23897	0	23913
MTEDALR	GATAD2B; GATAD2	Q8WXI9; A0A1B	P66B	HUMA	Oxidation (M)	611480	667460	749510	20385	0	0	0	0	0
MTEELEALR	CDC42BPA; CDC42I	Q5VT25; Q9Y5S2	MRCKA	HUM	Oxidation (M)	0	0	670930	28938	0	57759	0	0	0
MTELADVFSGVKPLTR	WASHC5; WASHC5	Q12768; E7EQI7	WASC5	HUM	Oxidation (M)	1001000	943340	677080	0	0	0	0	0	0
MTEQHFPHPIQSFSPESMPEPLNGPINILGEGR	PFAS	O15067	PUR4	HUMA	2 Oxidation (M);De	1547700	1081300	772650	0	0	0	0	0	0
MTEVVLKAPDSSPESR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Oxidation (M)	0	812920	1012400	0	0	14417	0	0	0
MTFGTAGLR	PGM2L1	Q6PCE3	PGM2L	HUM	Oxidation (M)	1979000	1882100	2242600	158460	205290	179070	0	0	0
MTFTSNK	ACOT7L; ACOT7; A	Q6ZUV0; O00154	BACHL	HUM	Oxidation (M)	1443800	2206700	1447000	0	0	0	0	0	0
MTGFELTEGVK	DSG1	Q02413	DSG1	HUMA	Oxidation (M)	528210	0	0	433610	401030	393630	0	0	0
MTGLNLQK	MRPS22; MRPS22; M	P82650; A0A7P0	RT22	HUMA	Oxidation (M)	0	1224200	1206700	38381	0	0	0	0	0
MTGLVDEAIDTK	VCL	P18206	VINC	HUMA	Oxidation (M)	1779500	0	0	296150	396470	392850	0	0	0
MTGSEFDFEEMKR	GDI2	P50395	GDIB	HUMA	2 Oxidation (M)	17584000	18686000	16473000	862910	810770	1057100	0	0	0
MTGSEFDFEEMKR	GDI2	P50395	GDIB	HUMA	2 Oxidation (M);M	3148800	3278400	4223200	183190	0	509790	0	0	0
MTHNLLLNYGLYR	HDAC2; HDAC1; HD	Q92769; Q13547;	HDAC2	HUM	Oxidation (M)	8538500	6829500	9331200	44501	38622	0	0	0	9404.8
MTHNLLLNYGLYR	HDAC2; HDAC1; HD	Q92769; Q13547;	HDAC2	HUM	Oxidation (M);Deai	2060600	1901800	2588600	16837	0	0	0	0	0
MTILQTYFR	ATP6V1G1	O75348	VATG1	HUM	Oxidation (M)	2368500	2837600	2171500	0	0	0	0	0	0
MTISQQEFGR	PSMD4; PSMD4; PSI	P55036; H0Y3Y9;	PSMD4	HUM	Oxidation (M)	1533600	1560500	0	0	0	0	0	0	0
MTITEQKYEGEYR	ABCD3; ABCD3	P28288; A0A3B3	ABCD3	HUM	Oxidation (M)	791300	893940	904560	44775	40916	41684	0	0	0
MTLADDVTLDDLIMAK	PSMC1	P62191	PRS4	HUMA	2 Oxidation (M)	582640	0	586130	0	0	0	0	0	0
MTLADIER	SLC25A13	Q9UJS0	CMC2	HUM	Oxidation (M)	2999900	2571600	2559900	302860	215630	275830	0	0	0
MTLDTLSIYETPSMGLLDKK	EIF3B	P55884	EIF3B	HUMA	2 Oxidation (M)	2610800	2605700	3420200	0	0	0	0	0	0
MTLGTPPTLPNFNALSVPPAGAK	SCYL2; SCYL2	Q6P3W7; A0A0U	SCYL2	HUM	Oxidation (M)	484590	979460	0	0	0	0	0	0	0
MTLQLIK	PPAN; PPAN-P2RY1	Q9NQ55; A0A0A	SSF1	HUMA	Oxidation (M)	1034200	690810	868930	30774	24245	23043	0	0	0
MTLSNPSELDELMSEEAYEK	GCSH; GCSH; GCSH	P23434; H3BUH9	GCSH	HUMA	2 Oxidation (M)	2660800	3546600	1789300	0	0	0	0	0	0
MTLSNPSELDELMSEEAYEKYIK	GCSH; GCSH; GCSH	P23434; H3BUH9	GCSH	HUMA	2 Oxidation (M)	5010500	3062500	4427800	0	0	0	0	0	0
MTMLLLYHSTMSSK	NUMA1; NUMA1; N	Q14980; F5H763;	NUMA1	HUM	3 Oxidation (M)	1114700	905750	795470	0	0	0	0	0	0
MTNPAIQNDFSYYR	CYRIB; CYRIB; CYR	Q9NUQ9; A0A087	CYRIB	HUM	Oxidation (M)	452870	342940	0	0	0	0	0	0	0
MTNPAIQNDFSYYRR	CYRIB; CYRIB; CYR	Q9NUQ9; A0A087	CYRIB	HUM	Oxidation (M);Deai	1938800	1117300	1300100	0	0	0	0	0	0
MTPFPATSAAPEPHPSTSTAQPVTPKPTSQATR	MDC1; MDC1	Q14676; H0Y6Z8	MDC1	HUM	Oxidation (M)	8692400	8777600	7055800	0	0	112770	0	0	0
MTPGPAVLATK	MYO6	Q5JVM0	Q5JVM0	HUM	Oxidation (M)	0	0	0	75100	110430	93612	0	0	0
MTPHEKQVMMFSATLSK	DDX39B; DDX39B; I	Q13838; F6TRA5	DX39B	HUM	3 Oxidation (M)	4753100	6267100	8468900	148100	86129	79626	0	0	0
MTPSSMLTTGR	DUSP12	Q9UNI6	DUS12	HUM	2 Oxidation (M)	581260	677940	621460	0	0	38875	0	0	0
MTPSYEIR	DHX9	Q08211	DHX9	HUMA	Oxidation (M)	7733000	7980300	8054100	1106100	1349200	1229000	0	0	0
MTQNPNYYNLQGISHR	SNRNP200	O75643	U520	HUMA	Oxidation (M)	2272600	2797100	3670100	0	0	0	0	0	0
MTQNPNYYNLQGISHR	SNRNP200	O75643	U520	HUMA	Oxidation (M);Deai	940680	1091400	982450	41322	0	0	0	0	0
MTSFAER	CAMSAP1; CAMSAI	Q5T5Y3; Q9P1Y5	CAMP1	HUM	Oxidation (M)	1119500	841240	754220	80769	53789	56476	0	0	0
MTVDESGQLISCSMDDTVR	WDR1	O75083	WDR1	HUM	2 Oxidation (M)	1009400	1011500	999650	199860	116750	120990	0	0	0
MTVEEQMER	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5	HUM	2 Oxidation (M)	0	1867200	454940	0	0	0	0	0	0
MTVTDQVNCPK	APOD; APOD	P05090; C9JF17	APOD	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
MTVTDQVNCPKLS	APOD	P05090	APOD	HUM	Oxidation (M)	0	0	0	205210	169660	200290	0	0	0
MTVVWDK	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Oxidation (M)	646800	721810	649140	0	0	0	0	0	0
MVAGANFYIVGR	PAPSS1	O43252	PAPS1	HUM	Oxidation (M)	0	623250	0	68327	66260	0	0	0	0
MVDSGIQPEAPPLPAAYYR	BRPF3; BRPF3; BRP	Q9ULD4; E9PSF3	BRPF3	HUM	Oxidation (M)	5071500	0	2540000	53056	52773	48593	10818	0	0
MVDVGGQR	GNAQ; GNAZ; GNA	P50148; P19086; I	GNAQ	HUM	Oxidation (M)	273920	4277200	4952500	0	224480	315140	0	0	0
MVDVVEKEDVNEAIR	MCM7	P33993	MCM7	HUM	Oxidation (M)	3346300	2638300	3281200	0	0	0	0	0	0
MVEGYQGLR	PLEC; PLEC; PLEC;	Q15149; E9PKG0	PLEC	HUM	Oxidation (M)	315330	339000	306890	192870	301160	390850	0	0	0
MVEPENAVTITPLRPEDDYSPR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Oxidation (M)	4077500	2219600	3573200	107810	0	0	0	0	0
MVEPENAVTITPLRPEDDYSPR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Oxidation (M);Deai	3264300	2189100	2885500	0	0	28782	0	0	0
MVEPENAVTITPLRPEDDYSPRER	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Oxidation (M)	0	0	961010	105340	0	71071	0	31414	0
MVEPQYQELK	PIR	O00625	PIR	HUMA	N Oxidation (M)	1031000	0	778460	73729	194100	69159	0	0	0
MVFINNIALAQIK	LRPPRC	P42704	LPPRC	HUM	Oxidation (M)	574190	514070	483870	0	0	0	0	0	0
MVFINNIALAQIK	LRPPRC	P42704	LPPRC	HUM	Oxidation (M);Deai	681600	445710	688960	0	0	0	0	0	0
MVFQENSR	PTPN11; PTPN11	Q06124; A0A0U1	PTN11	HUM	Oxidation (M);Deai	527260	439220	246880	0	0	0	0	0	0
MVFQENSR	PTPN11; PTPN11	Q06124; A0A0U1	PTN11	HUM	Oxidation (M)	0	0	1063400	0	0	29712	0	0	0
MVGEEKMSLR	SOAT1; SOAT1	P35610; B1APM4	SOAT1	HUM	Acetyl (Protein N-t	0	119650	124690	0	0	0	0	0	0
MVGEEKMSLRNRLSK	SOAT1; SOAT1	P35610; B1APM4	SOAT1	HUM	Unmodified	0	464040	1097400	0	0	93169	0	0	11341
MVGEMETKEK	QKI	Q96PU8	QKI	HUMAN	Acetyl (Protein N-t	0	0	0	122330	0	0	0	0	0
MVGFIIGR	FUBP1; FUBP3; FUB	Q96AE4; Q96I24;	FUBP1	HUM	Oxidation (M)	0	1740300	0	0	63645	49828	0	0	0
MVGGIAQIIAAQEEMLR	TLN1	Q9Y490	TLN1	HUMA	2 Oxidation (M)	1071400	1037000	1371600	0	0	0	0	0	0
MVGGIAQIIAAQEEMLRK	TLN1	Q9Y490	TLN1	HUMA	2 Oxidation (M)	4488300	1430800	3962800	0	0	0	0	0	0
MVGGVLVER	PFDN2	Q9UHV9	PFD2	HUMA	Oxidation (M)	5923100	4916900	7011800	0	0	70586	0	0	0
MVGLDNAGKTATAK	ARL13B; ARL13B; A	Q3SXY8; F8WAY	AR13B	HUM	Acetyl (Protein N-t	0	0	426300	83906	99246	103750	0	0	0
MVGMGQKDSYVGDEAQSKR	ACTG1; ACTC1; AC	P63261; P68032;	ACTG	HUM	2 Oxidation (M)	868270	807340	888750	0	0	0	45035	0	0
MVGVPAALDMMLTGR	HADHA; HADHA; H	P40939; H0YFD6	ECHA	HUM	3 Oxidation (M)	48173000	27450000	44354000	1700800	1448200	1177600	222670	166150	159790
MVHFLTHYADKIESVHFSDQFSGPK	CCDC47; CCDC47	Q96A33; A0A087	CCD47	HUM	Oxidation (M)	558390	0	613100	0	0	0	0	0	0
MVHIDEEMGPK	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	2 Oxidation (M)	638470	896140	951880	0	0	0	0	0	0
MVHKPSGQMAVKRIR	MAP2K4	P45985	MP2K4	HUM	2 Oxidation (M)	0	0	605100	0	0	0	0	0	0
MVIENELEDPAIMR	PATL1	Q86TB9	PATL1	HUM	2 Oxidation (M)	1846200	1986800	2110400	50495	51457	71979	0	0	0
MVIEYAR	HEXB; HEXB	P07686; Q5URX0	HEXB	HUM	Oxidation (M)	0	1934200	2547600	0	51667	0	0	0	0
MVIIGGQENPNNSSASSEPR	SALL2; SALL2; SAL	Q9Y467; A0A0B4	SALL2	HUM	Acetyl (Protein N-t	230220	63606	157150	0	0	0	0	0	0
MVILLCNLKPAK	AIMP1; AIMP1	Q12904; A0A5F9	AIMP1	HUM	Oxidation (M)	585650	458520	410410	30830	37896	53753	0	0	0
MVIPGGIDVHTR	DPYSL2; DPYSL2; I	Q16555; E5RFU4	DPYL2	HUM	Oxidation (M)	58390000	43551000	44643000	801250	742050	918400	206650	189860	212430
MVIPGGIDVNTYLQKPSQGMTAADDFFQGTR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	2 Oxidation (M)	2018000	0	1307900	0	0	0	0	0	0
MVIPNQPPLTATK	LPP; LPP; LPP; LPP	Q93052; C9JUT4;	LPP	HUMAN	Oxidation (M)	1278800	944260	818430	449260	453770	516630	315820	319310	209880
MVIPNQPPLTATKK	LPP; LPP; LPP; LPP	Q93052; C9JUT4;	LPP	HUMAN	Oxidation (M)	419730	0	0	210880	152360	116390	133430	163450	122030
MVIRNIATSGK	PYGM	P11217	PYGM	HUM	Oxidation (M);2 M	2539500	1293100	0	51872	41176	47311	0	0	0
MVLAAAGGVEHQQLLDLAQK	UQCRC1	P31930	QCR1	HUMA	Oxidation (M)	24521000	19315000	18400000	73856	40495	0	0	16790	21476

MVLPMPR	CDKAL1	Q5VV42	CDKAL_HUM	2 Oxidation (M)	0	1067800	821760	0	0	0	0	0	0
MVLPVDESLTEALGIR	INPP4A	Q96PE3	INP4A_HUM	Oxidation (M)	308090	0	159730	0	0	0	0	0	0
MVLSNMEK	IMPA1; IMPA1; IMP	P29218; E5RG13;	IMPA1_HUM	2 Oxidation (M)	3526500	0	3936200	37763	0	0	0	0	0
MVLSNMEK	IMPA1; IMPA1; IMP	P29218; E5RG13;	IMPA1_HUM	2 Oxidation (M);De	0	725630	229320	0	19606	0	0	0	0
MVLVDLPGVINTVTSGMAPDTK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	2 Oxidation (M)	1154300	700720	1076000	0	0	0	0	0	0
MVLVGDVK	PRPS2; PRPS1; PRP	P11908; P60891;	PRPS2_HUM	Oxidation (M)	4366200	3213800	3273700	65565	57092	59129	0	0	0
MVMIQDGPLPTGADKPLR	FUBP3	Q96I24	FUBP3_HUM	2 Oxidation (M)	5265300	5383000	5467300	223600	166880	74113	0	0	0
MVMIQDGPQNTGADKPLR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	2 Oxidation (M)	7343900	4848900	4880700	114660	0	0	0	0	0
MVMIQDGPQNTGADKPLR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	2 Oxidation (M);De	5169200	7785100	5993800	54217	43067	44969	0	0	0
MVMPSWFDLMGLSPDAPEDEAGIK	LYPLA2; LYPLA2; L	O95372; Q5QPQ0	LYPA2_HUM	3 Oxidation (M)	250590	361480	327610	0	0	0	0	0	0
MVMPSWFDLMGLSPDAPEDEAGIKK	LYPLA2; LYPLA2; L	O95372; Q5QPQ0	LYPA2_HUM	3 Oxidation (M)	0	0	0	0	0	0	0	0	0
MVNDAEKFAEEDKK	HSPA5; HSPA5; HSP	P11021; A0A7P0T	BIP_HUMAN	Oxidation (M)	2874200	4022700	2713300	0	0	0	0	0	0
MVNDAEKFAEEDKK	HSPA5; HSPA5; HSP	P11021; A0A7P0T	BIP_HUMAN	Oxidation (M);Deai	4558500	5935800	4484200	304800	129030	88778	0	0	0
MVNDAEKFAEEDKKLK	HSPA5; HSPA5; HSP	P11021; A0A7P0T	BIP_HUMAN	Oxidation (M)	1436800	1385300	688930	102600	97604	84501	0	0	0
MVNFTVDQIRAIMDK	EEF2	P13639	EF2_HUMAN	Acetyl (Protein N-t	0	0	0	110880	85253	134630	111660	73421	103460
MVNHFIAEFK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deai	7947800	7305900	6431800	89289	61485	50233	22023	0	0
MVNHFIAEFK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M);Deai	678760	846800	555910	0	0	0	0	0	0
MVNHFIAEFKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	2505200	0	3338500	51504	37733	0	0	0	0
MVNPTTVLESPHSLPAK	HUWE1	Q7Z6Z7	HUWE1_HUM	Oxidation (M)	1629600	1859600	2064000	0	0	0	0	0	0
MVNRVQDHIQSR	PFKFB1; PFKFB1	P16118; I1Z9G3	F261_HUMA	Acetyl (Protein N-t	0	0	0	0	249430	0	0	0	0
MVPAGMGAGLER	HNRNPM; HNRNPM	P52272; M0QZM1	HNRPM_HUM	2 Oxidation (M)	69676000	74675000	63233000	7017100	6714900	5770800	656060	190620	0
MVPFQVPEILR	DHX30; DHX30	Q7L2E3; H7BXY7	DHX30_HUM	Oxidation (M)	1301000	1536900	1410400	0	0	0	0	0	0
MVPVSVQQSLAAYNQR	PDCD6IP	Q8WUM4	PDC6I_HUM	Oxidation (M)	3460500	2976300	0	62052	68791	56527	0	0	0
MVQDGDFVR	FKBP10; FKBP10	Q96AY3; K7ESG6	FKB10_HUM	Oxidation (M)	199580	265660	266080	15492	0	25526	0	0	0
MVQEAEKYKAEDEKQR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	40338000	12592000	4665500	0	0	678130	0	0	0
MVQEAEKYKAEDEVQR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Oxidation (M)	7230300	6569400	7461300	467160	491480	535600	0	0	0
MVQEAEKYKAEDEVQRER	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Oxidation (M)	26616000	36275000	35416000	2781700	2035000	3197500	0	92716	168270
MVQEAEKYKAEDEVQRER	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Oxidation (M);Metl	1139300	986950	1015100	196100	0	218570	0	0	0
MVQFEENGRK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG_HUMA	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
MVQFEENGRKEIDIKK	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG_HUMA	Oxidation (M);Deai	394520	0	2464500	0	0	0	0	0	0
MVSAVLNGMLDQSFR	PRKDC	P78527	PRKDC_HUM	2 Oxidation (M);De	707790	835460	551790	0	0	0	0	0	0
MVSAVLNGMLDQSFRER	PRKDC	P78527	PRKDC_HUM	2 Oxidation (M);De	6736100	5464800	4791500	75717	58315	20620	0	0	11955
MVSDINNGWQHLEQAEK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Oxidation (M);Deai	1994500	1898100	1857300	26688	0	0	0	0	0
MVSGMYLGELVR	HK1	P19367	HXK1_HUMA	2 Oxidation (M)	1131200	1316000	1447800	0	0	0	0	0	0
MVSHLAEEFKR	HSPA2	P54652	HSP72_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
MVSSYVGENAEFER	OXCT1	P55809	SCOT1_HUM	Oxidation (M)	1490400	2323700	1448800	0	0	0	0	0	0
MVSSYVGENAEFER	OXCT1	P55809	SCOT1_HUM	Oxidation (M);Deai	913550	788680	940390	0	0	0	0	0	0
MVSVLPIFR	NHLRC2	Q8NBF2	NHLC2_HUM	Oxidation (M)	4534600	3826400	5420700	0	0	0	7875.6	0	0
MVSVLPIFRSENAVVDGPFLVEK	NHLRC2	Q8NBF2	NHLC2_HUM	Oxidation (M);Deai	118980	359480	353240	0	0	0	0	0	0
MVTAVASALSSR	HBG1; N/A	P69891; A0A2R8	HBG1_HUMA	Oxidation (M)	1048400	1141800	1599000	0	0	0	0	0	0
MVTGDNINTAR	ATP2B2; ATP2B3; A	Q01814; Q16720;	AT2B2_HUM	Oxidation (M)	1763100	2006200	2026500	486360	520750	578550	0	0	0
MVTKNDVMNLLESAGFSR	SMC3	Q9UQE7	SMC3_HUMA	2 Oxidation (M);De	433560	343460	926380	0	0	0	0	0	0
MVVDAVMMLDDLLQLK	CCT7	Q99832	TCPH_HUMA	3 Oxidation (M)	0	0	0	0	0	0	0	0	0
MVVESAYEVIK	LDHB; LDHB; N/A	P07195; A0A5F9	LDHB_HUMA	Oxidation (M)	2274400	2207900	2057200	0	0	47950	0	0	0
MVVLSLPR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	2809200	2052100	1986800	84519	63729	63521	0	0	0
MVVMHPMPR	CAD; CAD; CAD	P27708; F8VPD4;	PYR1_HUMA	Oxidation (M)	391240	1061500	870050	0	0	0	0	0	0
MVVNEGSDGGQSVVHVHLHVLGGR	HINT1	P49773	HINT1_HUM	Oxidation (M)	20163000	16000000	20683000	26057	11504	0	0	0	0
MVVNEGSDGGQSVVHVHLHVLGGR	HINT1	P49773	HINT1_HUM	Oxidation (M);Deai	25193000	23410000	25222000	0	0	0	0	0	0
MVVPAALK	RPL13AP3; RPL13A;	Q6NVV1; P40429	R13P3_HUM	Oxidation (M)	1567900	1618700	1696100	69087	0	41738	0	0	0
MVVPGLDGAQIPR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Oxidation (M)	2661500	2226200	2091500	112280	111900	112870	0	0	0
MVVPGLDGAQIPRDPSQQELPR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Oxidation (M)	3262200	2812000	2725000	0	0	0	0	0	0
MVVPLACLLTPLK	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	Oxidation (M)	717230	1579400	701730	0	0	0	0	0	0
MVVPVAALFTPLK	SEC23A; SEC23A; SI	Q15436; F5H365;	SC23A_HUM	Oxidation (M)	2346300	2300400	2608200	0	0	0	0	0	0
MVVVGNGAVGK	RAB23	Q9ULC3	RAB23_HUM	Oxidation (M);Deai	0	0	221190	0	0	0	0	0	0
MVYWTDVAGR	NID2; NID2; NID2	Q14112; H0YJV3;	NID2_HUMA	Oxidation (M)	0	0	0	328400	302330	382370	46331	29564	54632
MVYYLDPSSQK	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	Oxidation (M)	907040	776300	884770	0	0	0	0	0	0
MVYYLDPSSQKR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	Oxidation (M)	1652300	0	2072800	69136	64393	81296	0	0	0
MWDPHNDPNAQGDAFK	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Oxidation (M)	1418400	1098900	1187400	14694	23575	26787	0	0	0
MWDPHNDPNAQGDAFK	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Oxidation (M);Deai	724170	1043200	801140	0	0	0	0	0	0
MWFFAR	SCYL1; SCYL1; SCY	Q96KG9; E9PS17	SCYL1_HUM	Acetyl (Protein N-t	185360	190250	197420	0	0	0	0	0	0
MWIQVR	UHRF2; UHRF1; UH	Q96PU4; Q96T88	UHRF2_HUM	Oxidation (M)	1314600	1000900	1225500	0	37676	0	0	0	0
MWITNGGK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Oxidation (M);Deai	1454300	799490	1107400	0	0	0	0	0	0
MWSIENIAFGSGGGLLQK	NAMPT; NAMPT; N	P43490; A0A7P0	NAMPT_HUM	Oxidation (M)	0	0	407740	0	0	0	0	0	0
MWVMLQTLNDEVPK	ATP1B3; ATP1B3; A	P54709; C9JA36;	AT1B3_HUM	Acetyl (Protein N-t	0	0	455230	0	0	0	0	0	0
MYAALGDPK	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	9486600	11556000	13008000	247460	260070	335120	0	0	0
MYAALGDPKAPGLGAFR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	1044400	0	651230	0	0	0	0	0	0
MYEEFLSK	PRKAR1B; PRKAR1	P31321; P10644;	KAP1_HUMA	Oxidation (M)	2881500	3112100	2959500	0	30247	0	0	0	0
MYEEHLKR	ERH; ERH	P84090; G3V279	ERH_HUMAN	Oxidation (M)	0	2488700	1730300	0	126020	184890	0	0	0
MYEGKK	ARFGEF1; THBS1; A	Q9Y6D6; P07996;	BIG1_HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
MYLETDPSGR	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M)	11610000	14051000	12141000	119750	90565	122680	0	0	0
MYLETDPSGRDK	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M)	620690	1084800	541090	0	0	0	0	0	0
MYLETDPSGRDKR	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M)	6445600	5297800	6046200	149700	170100	267740	0	0	0
MYQKGQETSTNPIASIFAWTR	IDH1	O75874	IDHC_HUMA	Oxidation (M)	3524200	2691300	2891500	0	0	0	0	0	0
MYSEIDIK	EFTUD2	Q15029	US1_HUMAN	Oxidation (M)	777120	0	1076300	123770	81696	93804	0	0	0
MYSTDDGVQFHAFGR	EFTUD2	Q15029	US1_HUMAN	Oxidation (M)	1705800	2304300	1651800	84590	77191	75949	0	0	0
MYSYPAR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC_HUM	Oxidation (M)	31109000	34215000	28315000	1744000	1520800	1525100	54562	78600	90853
MYSYVTEELPQLINANFPVDPQR	ESD; ESD; ESD; ESD	P10768; X6RA14;	ESTD_HUMA	Oxidation (M)	1109100	618770	97191	0	0	0	0	0	0
MYSYVTEELPQLINANFPVDPQR	ESD; ESD; ESD; ESD	P10768; X6RA14;	ESTD_HUMA	Oxidation (M);Deai	571740	260910	767580	0	0	0	0	0	0
MYTAIPQSGSPFPGSVQDPGLHVWR	CAPG; CAPG; CAPG	P40121; E7ENU9;	CAPG_HUMA	Acetyl (Protein N-t	3183700	2824200	1963900	0	0	0	0	0	0
MYTDIQEPMFSAAR	UBQLN4	Q9NRR5	UBQL4_HUM	2 Oxidation (M)	1659900	1601800	1504000	41858	38124	34077	0	0	0
MYVPALIFGQLLTSSNYDDDEKK	TOP2A; TOP2A	P11388; J3KTB7	TOP2A_HUM	Oxidation (M)	311070	281180	0	0	0	0	0	0	0
NAAALSQALR	SELENOH; SELENO	Q8IZQ5; H0YE28	SELH_HUMA	Unmodified	1957700	1598100	1672100	64138	74917	0	0	0	0
NAADSSVPSAPR	SPINT2; SPINT2	O43291; K7EM91	SPIT2_HUMA	Unmodified	1157500	1247000	1301600	482890	518090	470220	0	0	0
NAAGALDLLK	TCEA1; TCEA1; TCE	P23193; E5RFI1;	TCEA1_HUM	Unmodified	1789400	1716100	2185900	14354	0	0	15230	0	12282
NAAGALDLLKELK	TCEA1; TCEA1; TCE	P23193; E5RFI1;	TCEA1_HUM	Unmodified	1797600	1546500	2180600	0	0	0	0	0	0
NAAGALDLLKELK	TCEA1; TCEA1; TCE	P23193; E5RFI1;	TCEA1_HUM	Deamidation (N)	792560	0	1396600	0	0	0	0	0	0
NAAHALPTTLGALER	COLGALT1	Q8NBJ5	GT251_HUM	Unmodified	2977500	3108500	2674100	0	0	11657	0	0	0
NAAPILHLSGMDVTIVK	AGK; AGK; AGK; A	Q53H12; A0A3B3	AGK_HUMA	Oxidation (M)	341550	0	434000	9105.1	0	0	0	0	0
NADHSMNYQYR	ILF3; ILF3	Q12906; K7ELV3	ILF3_HUMA	Oxidation (M)	1350400	1762200	1414300	960210	627910	935740	0	0	0
NADPILISLK	CORO1C; CORO1C;	Q9ULV4; H0YHL	COR1C_HUM	Unmodified	5731600	7185200	7583400	105370	74810	0	0	0	0
NADQEELVK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	2476000	2383200	3002200	582560	579360	777330	0	0	0
NADVELQQR	AP2A2; AP2A1; AP2	O94973; O95782;	AP2A2_HUM	Unmodified	2974200	3551500	3126000	200680	147290	180590	0	0	0
NAEAVLQSPGLSGK	FLII	Q13045	FLII_HUMAN	Unmodified	1228200	1191500	973410	111310	91464	123600	0	0	0
NAEEFTLR	UBE2L6	O14933	UB2L6_HUM	Unmodified	592860	480060	729130	80497	0	0	0	0	0
NAEKYAEEDRR	HSPA9; HSPA9; HSP	P38646; H0Y8S0;	GRP75_HUM	Unmodified	0	0	0	0	0	0	0	0	0
NAEQAATQLK	KTN1	Q86UP2	KTN1_HUMA	Unmodified	1720600	781290	1295600	59202	47190	0	0	0	0
NAFVTGIAR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
NAGFTPQER	APEX1; APEX1; APE	P27695; G3V5Q1;	APEX1_HUM	Unmodified	10116000	10633000	10162000	577770	570560	565450	0	0	0
NAGFTPQER	APEX1; APEX1; APE	P27695; G3V5Q1;	APEX1_HUM	Deamidation (N)	211470	1943100	2230200	71014	0	85906	0	0	0
NAGLAFIELVNEGR	LRBA; LRBA; LRBA	P50851; A0A494(	LRBA_HUMA	Unmodified	0	851490	1037100	0	0	0	0	0	0
NAGQAVTIVAQYRPEEYSR	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1_HUMA	Unmodified	1319600	1787200	1863400	0	0	0	0	0	0
NAGVEGSLIVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	29598000	28099000	30116000	666430	245320	521530	0	0	33410
NAGVEGSLIVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Deamidation (N)	4807600	4768000	4754600	47271	34691	57451	0	0	0
NAGYAVSLR	SYNJ2BP; SYNJ2BP-	P57105; A0A087	SYJ2B_HUM	Unmodified	1919500	2173300	1108400	0	0	7170.3	0	0	0
NAIANASTLAEVER	SNRPA1; SNRPA1; S	P09661; H0YLR3;	RU2A_HUMA	Unmodified	623230	758800	0	0	0	0	0	0	0
NAIFQLEK	UBA6	A0AVT1	UBA6_HUMA	Unmodified	975590	2441300	772310	33576	69610	41895	0	0	0
NALANPLYCPDYR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Unmodified	759280	626500	738600	27757	0	31887	0	0	0
NALDPMSVLLAR	PRCP; PRCP; PRCP;	P42785; B7Z7Q6;	PCP_HUMAN	Oxidation (M)	0	0	0	609450	369870	607360	22061	27651	0
NALESYAFNMK	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L_HUM	Oxidation (M)	9482300	8533600	10475000	1379700	1083400	1183800	0	121990	0
NALESYAFNMK	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L_HUM	Oxidation (M);Deai	5793700	6295100	5872400	898350	825830	728890	0	29967	30973
NALESYTYNIK	HSPA2	P54652	HSP72_HUM	Unmodified	3059900	2624300	2350300	78478	58015	54755	0	0	0
NALGAIHHTISVR	NRCAM; NRCAM; N	Q92823; A0A087	NRCAM_HUM	Unmodified	1003200	485290	0	0	0	0	0	0	0
NALGPGLSPELGPLPALR	LRRC47	Q8N1G4	LRC47_HUM	Unmodified	3870900	3523000	4395100	0	0	0	0	0	0
NALGPGLSPELGPLPALR	LRRC47	Q8N1G4	LRC47_HUM	Deamidation (N)	297450	1381500	1170800	0	0	0	0	0	0
NALLQLTDSQIADVAR	SNRNP200	O75643	U520_HUMA	Unmodified	1037000	884740	1006300	0	0	0	0	0	0
NALLSLAK	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1_HUM	Unmodified	1736400	1913800	1808900	385650	347440	368090	23819	21558	23609
NALQDEKRR	MYH11	P35749	MYH11_HUM	2 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
NALQQENHIIDGVK	SLIRP; SLIRP; SLIRI	Q9GZT3; G3V4X0	SLIRP_HUM	Unmodified	1164000	1262900	0	0	0	0	0	8444.9	0
NALQQENHIIDGVK	SLIRP; SLIRP; SLIRI	Q9GZT3; G3V4X0	SLIRP_HUM	Deamidation (N)	584870	562970	710460	15981	0	14663	0	0	0
NALVSHLDGTTPVCEDIGR	UQCRC1	P31930	QCR1_HUMA	Unmodified	10369000	10282000	9637400	183960	108070	127960	21017	0	0
NAMGSLASQATK	PSMD4; PSMD4; PSI	P55036; H0Y3Y9;	PSMD4_HUM	Oxidation (M)	598400	703370	755550	0	0	0	0	0	0
NANAEPAVQR	CD99; CD99	P14209; A0A096I	CD99_HUMA	Unmodified	0	2042000	0	0	0	933290	0	0	0
NANAEPAVQRTLLEK	CD99; CD99	P14209; A0A096I	CD99_HUMA	Unmodified	0	0	0	114340	94631	142990	140530	94548	143270
NAPAIIFIDELDAIAPK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1803700	1402700	1963500	0	0	0	0	0	0
NAPAIIFIDELDAIAPKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	3710500	2872400	3295900	0	0	0	0	0	0
NAPAIIFIDELDAIAPKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Methyl (KR)	232950	204010	376740	0	0	0	0	0	0
NAPMLKSMKNKNQGSGAGR	SNRPD3	P62318	SMD3_HUMA	Oxidation (M);2 M	781180	0	627780	0	0	0	0	0	0
NAQMAQSPILLLGGAASTLLQNR	ILVBL; ILVBL; ILVB	A1L0T0; E9PJS0;	HACL2_HUM	Oxidation (M)	298380	0	343520	0	0	0	0	0	0
NASEMIDKLTLTFNR	ATP5F1C	P36542	ATPG_HUMA	Oxidation (M)	4023300	3404500	3626600	44712	29157	30889	0	0	0
NASNTEKLTDQVMQNPR	NAP1L4; NAP1L4; N	Q99733; C9J6D1;	NP1L4_HUM	Oxidation (M)	0	880990	599080	0	0	0	0	0	0
NASTFEDVTQVSSAYQK	CTTN	Q14247	SRC8_HUMA	Unmodified	1170000	0	783800	0	0	0	0	0	0
NATILELR	DSP	P15924	DESP_HUMA	Unmodified	603210	576540	488470	12576	0	0	0	0	0

NATNVEQAFMTMAAEIK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C	HUM	2 Oxidation (M)	3589200	1248900	2640100	0	67159	0	0	0	15756
NATNVEQAFMTMAAEIK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C	HUM	2 Oxidation (M);Dc	390490	396750	367590	0	0	0	0	0	0
NATNVEQSFMTMAAEIK	RAB1A; RAB1A	P62820; E7END7	RAB1A	HUM	2 Oxidation (M)	1299300	879750	2577700	30645	47933	16844	0	0	0
NATVHPGLELPLMMAK	PRPSAP1; PRPSAP1	Q14558; C9J168;	KPRA	HUM	2 Oxidation (M);Dc	1988400	230840	1218600	0	0	0	0	0	0
NATVHPGLELPLMMAK	PRPSAP1; PRPSAP1	Q14558; C9J168;	KPRA	HUM	2 Oxidation (M)	1735900	1886300	1841900	122700	100860	80704	0	0	0
NAVEEYVYEMR	HSPA4; HSPA4	P34932; A0A087	HSP74	HUM	Oxidation (M)	602430	512580	565140	0	0	0	0	0	0
NAVITVPAYFNDSQR	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Deamidation (N)	2727800	2089200	2276300	56430	75754	0	0	0	0
NAVITVPAYFNDSQR	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Unmodified	0	870280	0	0	0	0	0	0	0
NAVITVPAYFNDSQRQATK	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Deamidation (N)	966830	1117200	686410	79745	107110	116520	0	0	0
NAVIVALSSK	UBE2K	P61086	UBE2K	HUM	Unmodified	1339400	870010	0	0	17074	0	0	0	0
NAVLNTEAR	NCLN	Q969V3	NCLN	HUM	Unmodified	770660	0	511830	0	0	0	0	0	0
NAVTQEFGPVPDTAR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Unmodified	7976100	7176700	3171500	834480	954030	1049700	100570	112720	78717
NAVTQEFGPVPDTAR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
NAYMLVYR	USP48; USP48	Q86UV5; E9PJ93	UBP48	HUM	Oxidation (M)	257170	310240	460460	0	0	0	0	0	0
NCAVEFNFGQR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	0	632860	573820	0	0	0	0	0	0
NCPHIVVGTPGR	DDX39B; DDX39B; I	Q13838; F6TRA5;	DX39B	HUM	Unmodified	2121000	2331600	2225600	0	0	0	0	0	0
NCWQNYLDFHR	COX6B1; COX6B1	P14854; A0A494	CX6B1	HUM	Unmodified	1722300	1522000	1798400	0	0	0	0	0	0
NDASEVVLAGER	UHRF1; UHRF1; UHI	Q96T88; A0A087	UHRF1	HUM	Unmodified	0	733170	0	0	0	0	0	0	0
NDEALRQLEAELGAER	SPR	P35270	SPRE	HUM	Unmodified	0	377350	204860	0	0	0	0	0	0
NDEELNK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	Unmodified	20722000	21657000	23890000	20539	205950	0	0	0	0
NDEELNK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUM	Deamidation (N)	0	1515900	2187200	0	0	0	0	0	0
NDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Unmodified	79518000	85668000	75862000	594600	543240	557240	8215	15716	12117
NDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Deamidation (N)	6342500	6374100	6405300	32183	34018	12627	0	0	0
NDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
NDEELNKLLGK	H2AC18; H2AC14; H	Q6FI13; Q99878;	H2A2A	HUM	Methyl (KR)	0	0	244080	0	0	0	0	0	0
NDEELNKLLGR	H2AC6; H2AW; H2A	Q93077; Q7L7L0;	H2A1C	HUM	Unmodified	20507000	22923000	19073000	279540	302320	313220	0	16200	12576
NDEKMDPEAR	AQR; AQR	O60306; H0YH15	AQR	HUM	Oxidation (M)	960980	0	1685200	61559	60335	83514	0	0	0
NDEYENLFNMIVEIPR	PPA2; PPA2; PPA2;	Q9H2U2; D6RGV	IPYR2	HUM	Oxidation (M)	139200	0	0	0	0	0	0	0	0
NDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	35414000	34041000	45541000	669180	723590	833270	0	0	0
NDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Deamidation (N)	3974700	4626700	6515300	130770	152040	139540	0	0	0
NDLSPASSGNAVYDFFIGR	LBR; LBR	Q14739; A0A494	LBR	HUM	Deamidation (N)	165240	177580	228300	0	0	0	0	0	0
NDLSPTTVMSEGAR	BLVRB; BLVRB; BL	P30043; M0QZL1	BLVRB	HUM	Oxidation (M)	771400	0	0	0	0	0	0	0	0
NDPQSITADDLHQLLVVAR	MCMBP	Q9BTE3	MCMBP	HUM	Unmodified	2076300	1419100	0	0	0	0	0	0	0
NDQMIEKNKELR	RNF8; RNF8	O76064; C9J858	RNF8	HUM	Oxidation (M);Met	0	0	0	0	0	0	0	0	0
NEAIQAAHDAVAQEGQCR	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Unmodified	1055800	907170	948100	0	0	0	0	0	0
NEAIVKDVLLVAQGEMALEEFLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M);Met	1374700	1592800	830300	0	0	0	0	0	0
NEALIALLR	LCP1	P13796	PLSL	HUM	Unmodified	0	229170	435710	0	0	0	0	0	0
NEATVETLTETK	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24	HUM	Unmodified	953910	1034600	766540	0	0	0	0	0	0
NEDEDSPNKLYTLVTYVPVTTFK	RPL31; RPL31; RPL	P62899; H7C2W9	RL31	HUM	Unmodified	4281000	3685700	4142900	0	0	0	0	0	0
NEDEEEEEEEKDEAEDLLGR	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	0	2497100	1340900	0	0	0	0	0	0
NEEDAAELVALAQAVNAR	UBA1	P22314	UBA1	HUM	Deamidation (N)	4026100	4041800	4269800	0	0	0	0	0	0
NEEDAAELVALAQAVNAR	UBA1	P22314	UBA1	HUM	Unmodified	13589000	6821900	9503800	0	31214	14496	0	16819	0
NEENRAK	SLC2A1; SLC2A1; SI	P11166; A0A6Q8	GTR1	HUM	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
NEGFYADPYLYHEGR	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT	HUM	Unmodified	619990	640990	661080	30938	25459	0	0	0	0
NEGNIFPNPEATFVK	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	4754700	3739900	3527700	22521	32895	18518	0	0	0
NEGNIFPNPEATFVKEITYR	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	1611100	1344400	1645400	0	0	0	0	0	0
NEGVIEFVSYSDMKR	SRSF4; SRSF4	Q08170; A0A0D9	SRSF4	HUM	Oxidation (M)	1974300	0	0	112000	118990	135080	0	0	18645
NEHVDYVDVGGAYVGPTQNR	MAOA	P21397	AOFA	HUM	Unmodified	0	1569000	0	0	0	0	0	0	0
NEICYNILVLCLR	COQ8A	Q8NI60	COQ8A	HUM	Deamidation (N)	1376000	0	0	0	0	0	0	0	0
NEILKRNLENTQNQIK	UACA; UACA; UAC	Q9BZF9; H0YNH	UACA	HUM	2 Methyl (KR);Dea	273520	163390	282080	0	0	0	0	0	0
NEIVFPAGILQAPFYTR	ECE1; ECE1; ECE1	P42892; B4DKB2	ECE1	HUM	Unmodified	140280	122050	128200	0	0	0	0	0	0
NELEIPGQYDGR	PRKDC	P78527	PRKDC	HUM	Unmodified	3750600	3395800	3245700	135680	289740	81441	0	0	0
NELEIPGQYDGR	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
NELESYAYSLK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Unmodified	20806000	957920	12224000	92754	84481	126440	0	10315	0
NELESYAYSLK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Deamidation (N)	968050	1702800	1514500	0	0	29091	0	0	0
NELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Deamidation (N)	2407900	3502500	2932600	0	0	0	0	0	0
NELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Methyl (KR);Deam	3319000	4119800	2876400	67426	0	0	0	0	0
NELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Methyl (KR)	3459400	1244000	0	0	0	0	0	0	0
NELESYAYSLKNQIGDKEK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP	HUM	Unmodified	1558100	1130300	1235800	0	0	0	0	0	0
NELHNLLDKPQLQGIPVLVLGNKR	ARL8B; ARL8A	Q9NVJ2; Q96BM9	ARL8B	HUM	Unmodified	1189300	484270	0	0	0	0	0	0	0
NELLHFER	HSPG2; HSPG2	P98160; H7BYA5	PGBM	HUM	Unmodified	0	0	0	152660	0	0	180380	0	0
NELMVQLFQDHDLQAILQER	DHX9	Q08211	DHX9	HUM	Oxidation (M)	1232500	0	1586700	0	0	0	0	0	0
NELQLVDLPTGR	WDR11; WDR11	Q9BZH6; S4R3Z0	WDR11	HUM	Unmodified	743420	762120	547070	22789	29957	25806	0	0	0
NELSGALTGLTR	TARS1	P26639	SYTC	HUM	Unmodified	2115000	1374800	1234500	0	0	0	0	0	0
NEMGHTPLDYAR	CLPB; CLPB; CLPB;	Q9H078; A0A2U3	CLPB	HUM	Oxidation (M)	1116800	1103300	1676000	41627	36002	54113	0	0	0
NENTFLDLTVQQIEHLNK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA	HUM	Deamidation (N)	362740	25487	47452	0	0	0	0	0	0
NEPLTFAWLR	SUPV3L1	Q8IYB8	SUV3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NEQDAYAINSYTR	ACAT1; ACAT1; AC	P24752; A0A5F9	THIL	HUM	Deamidation (N)	425190	678990	0	49008	66925	114060	0	0	0
NEQDAYAINSYTR	ACAT1; ACAT1; AC	P24752; A0A5F9	THIL	HUM	Unmodified	643500	0	0	122440	92713	125790	0	0	0
NEVNEREKAMENRYK	CDK5RAP2; CDK5R	Q96SN8; F8WCI3	CK5P2	HUM	Oxidation (M);Met	141290	0	122390	0	0	0	0	0	0
NEVSFVIHNLPIIAK	SEPHS2	Q99611	SPS2	HUM	Unmodified	610930	547570	633850	0	0	0	0	0	0
NEVSFVIHNLPVLAK	SEPHS1	P49903	SPS1	HUM	Unmodified	3966000	3704900	4118500	0	0	0	0	0	0
NEVSFVIHNLPVLAK	SEPHS1	P49903	SPS1	HUM	Deamidation (N)	854840	570820	850190	0	0	0	0	0	0
NFAFLEFR	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Unmodified	0	1603900	1472800	0	0	0	0	0	0
NFALLGVGTSK	UBA6; UBA6	A0AVT1; H0YS83	UBA6	HUM	Unmodified	697540	385850	411450	0	0	0	35879	45204	13502
NFDEILR	PRDX6	P30041	PRDX6	HUM	Unmodified	2943400	1935900	2407700	28355	77542	66779	0	0	0
NFDIPKEMTGIWR	CLIC4	Q9Y696	CLIC4	HUM	Oxidation (M)	603550	433930	494080	0	0	0	0	0	0
NFDLRPGVIVR	MAT1A; MAT2A	Q00266; P31153	METK1	HUM	Unmodified	668080	716890	960540	0	0	0	0	0	0
NFEDVAFDEK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM	Unmodified	3918100	3916300	3752200	91411	74462	267340	0	0	0
NFEDVAFDEKK	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM	Unmodified	3360600	3493800	2566700	0	0	0	0	0	0
NFEIAFK	MICU1; MICU1; MIC	Q9BPX6; S4R3W	MICU1	HUM	Unmodified	534550	591280	555380	0	0	16679	0	0	0
NFFLTNR	CAPN2	P17655	CAN2	HUM	Unmodified	3192500	3899200	2400200	27838	56484	74604	0	0	0
NFGDQPDIR	SF3B3	Q15393	SF3B3	HUM	Unmodified	940790	929150	0	18792	0	0	0	0	0
NFGEDMDDER	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1	HUM	Oxidation (M)	1033900	0	0	0	0	0	0	0	0
NFGIGQDIQPK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUM	Unmodified	8916800	7270900	7708500	391780	0	301680	0	0	0
NFGIGQDIQPK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUM	Deamidation (N)	0	1487600	1169800	52191	40569	49366	0	0	0
NFGIWLR	RPL18A; RPL18A; R	Q02543; M0R0P7	RL18A	HUM	Unmodified	1324200	1000200	1341700	17124	0	0	0	0	0
NFGKEFTPQMQAAYQK	HBD	P02042	HBD	HUM	Oxidation (M)	624580	592080	616650	0	0	0	0	137510	32676
NFGPKGFGFGQGAGALVHSE	CSRP1; CSRP1	P21291; E9PP21	CSRP1	HUM	Methyl (KR)	752460	568670	407440	0	0	0	80630	0	55863
NFGPKGFGFGQGAGALVHSE	CSRP1; CSRP1	P21291; E9PP21	CSRP1	HUM	Unmodified	0	0	0	26318	21456	0	479500	25094	371400
NFIAQGPYENR	ATP6V1B2	P21281	VATB2	HUM	Unmodified	1052200	882710	973400	0	0	0	0	0	0
NFILDQTNVSAAAQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	20929000	25206000	19862000	453270	329820	262600	50228	51751	52769
NFILDQTNVSAAAQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Deamidation (N)	4028600	1927600	3213400	0	0	0	0	0	0
NFILDQTNVSAAAQRR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	3950900	3345300	3368600	123140	174410	230160	0	0	0
NFLELTELK	ATP6V0A1; ATP6V0	Q93050; K7EN36;	VPP1	HUM	Unmodified	965480	925320	1527200	0	7431.1	0	0	0	0
NFLFLR	TRMT10C; TRMT10	Q7L0Y3; C9JVB6	TM10C	HUM	Unmodified	862440	0	790820	15846	0	0	0	0	0
NFLSTPQFLYR	DERL1; DERL1; DEI	Q9BUN8; B4E1G	DERL1	HUM	Unmodified	365710	324360	448020	0	0	0	0	0	0
NFLVFQGAVESIAMKNPK	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A	HUM	Oxidation (M)	2445100	2042800	2302900	0	0	0	0	0	0
NFMIDTYR	SMARCC2; SMARC	Q8TAQ2; Q92922	SMRC2	HUM	Oxidation (M)	5172800	4479500	5449700	0	0	0	0	0	0
NFMMMRYSQNVRSKNK	SDAD1; SDAD1	Q9NVU7; E7EW0	SDA1	HUM	2 Oxidation (M);M	167590	1383900	0	0	0	0	0	0	0
NFPNAIEHTLQWAR	UBA1	P22314	UBA1	HUM	Unmodified	0	328020	484670	0	0	0	0	0	0
NFPNAIEHTLQWAR	UBA1	P22314	UBA1	HUM	Deamidation (N)	484320	396940	466920	0	0	0	0	0	0
NFPSPVDAAFR	HPX; HPX	P02790; Q9BS19	HEMO	HUM	Unmodified	6994900	6626800	8133800	163690	0	191450	32014	0	0
NFQKELSDLEEENRVLK	SPECC1; SPECC1; S	Q5M775; J3QS22;	CYTSB	HUM	3 Methyl (KR);2 D	392280	0	0	0	0	0	0	0	0
NFQNIFPPSATLHLSNIPPSVSEEDLK	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1	HUM	Unmodified	2276000	0	1604000	0	0	0	0	0	0
NFQTAHR	PSIP1; PSIP1	O75475; V9GYT7	PSIP1	HUM	Unmodified	1633900	1788600	2369000	0	0	0	0	0	0
NFSDNQLQEGK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Unmodified	3421900	4544400	3928600	98442	109770	102590	0	0	0
NFSDNQLQEGK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Deamidation (N)	1939500	1204700	1355400	0	0	0	0	0	0
NFSDNQLQEGKNVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	3949000	5034500	4367100	0	0	0	71888	47873	46605
NFSDNQLQEGKNVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M);Dea	2375000	2518900	2575000	0	0	80045	0	0	0
NFSGAELEGLVR	NSF; NSF	P46459; I3L0N3	NSF	HUM	Unmodified	3870700	0	3373400	0	0	0	0	0	0
NFSGTASTSLLGPPPGLLTPPVATELSQNAR	CCAR2; CCAR2; CC	Q8N163; E5RFJ3;	CCAR2	HUM	Unmodified	284340	191090	0	0	0	0	0	0	0
NFVGDLGGGHRRDGEHK	PDZRN4	Q6ZMN7	PZRN4	HUM	2 Methyl (KR);Dea	936280	960060	0	0	0	0	0	0	0
NFVINVVNR	COL6A2; COL6A2	P12110; H7C0M5	CO6A2	HUM	Unmodified	862490	571460	920250	0	0	0	16286	0	0
NFVLPEEIIQEVR	MRGBP	Q9NV56	MRGBP	HUM	Unmodified	402780	331930	335090	0	0	0	0	0	0
NFVVVMVTK	RAD23B; RAD23A; I	P54727; P54725;	RD23B	HUM	Oxidation (M)	2280300	1213800	2113300	0	24117	18280	0	0	0
NFVVVMVTKPK	RAD23B; RAD23B; I	P54727; Q5W0S4;	RD23B	HUM	Oxidation (M)	1431500	360300	2126300	0	0	0	0	0	0
NFWVSGLSSTTR	SAFB	Q15424	SAFB1	HUM	Unmodified	2718800	3564700	2363500	45705	38087	38514	0	0	0
NFYDFYLVMPFMQTDLQK	MAPK13; MAPK13	O15264; Q5R3E6	MK13	HUM	2 Oxidation (M)	269000	219600	291210	0	0	0	0	0	0
NFYELSPHFALSDEAYR	MYO1B; MYO1B; M	O43795; C9JUP5;	MYO1B	HUM	Unmodified	1910500	1517000	1509500	0	0	0	0	0	0
NFYQEHPDLAR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUM	Unmodified	9308600	8288900	6895200	300930	248650	229290	0	0	0
NFYQEHPDLAR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUM	Deamidation (N)	2081200	2893500	437690	27260	27491	0	0	0	0
NFYQEHPDLARR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUM	Unmodified	1588300	1563300	1450600	37348	113210	139190	0	0	0
NFYVEHPEVAR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	0	704340	1010800	78946	73478	78672	0	0	0
NFYVEVPELAK	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	Unmodified	2198400	0	1587800	44457	44528	35938	0	0	0
NGDTASPKEYTAGR	P4HB; P4HB; P4HB;	P07237; A0A7P01	PDIA1	HUM	Deamidation (N)	696630	1059200	902050	79351	0	0	0	0	0
NGGLGHMNIALLSDLTK	PRDX3	P30048	PRDX3	HUM	Oxidation (M);Dea	1167500	904800	1387000	0	0	0	0	0	0
NGGQILIADLR	SEC13; SEC13; SEC1	P55735; A8MXL6	SEC13	HUM	Deamidation (N)	778500	641280	500970	0	28101	0	0	0	0
NGMVAKLGDFGIARVLNNSMELAR	NEK5; NEK5; NEK5;	Q6P3R8; A0A3B3	NEK5	HUM	2 Oxidation (M)	4346000	0	0	0	0	0	0	0	0
NGPADGEVDYKKK	INO80E; INO80E; IN	Q8NBZ0; I3L270;	IN80E	HUM	Acetyl (Protein N-t	1101900	1243100	948850	0	0	0	0	0	0
NGPALQEAYVR	DBNL; DBNL; DBNL	Q9UJU6; F8WFE1	DBNL	HUM	Deamidation (N)	713310	0	0	88532	111350	126230	0	0	0
NGPLEVAGAAVSAGHGLPAK	MACROH2A1; MAC	O75367; B4DJC3	H2AY	HUM	Unmodified	1291100	1648800	808210	0	0	0	0	0	0

NGQDLGVAFK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Deamidation (N)	18408000	22182000	19244000	347450	433570	94293	0	0	0
NGQDLGVAFK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	728530	595730	441860	0	0	0	0	0	0
NGQHVASSPIPVVISQSEIGDASR	FLNA; FLNA; FLNA	P21333; H0Y5C6;	FLNA	HUMA	Deamidation (N)	3919000	4581200	3593800	32129	0	42903	267760	101670	154100
NGQRLEVPVEMNPEGYMTSR	BCAM; BCAM; BCA	P50895; A0A087	BCAM	HUM	2 Oxidation (M);De	2312200	1574200	246480	219180	205880	175890	0	0	0
NGSEADIDEGLYSR	UBA1; UBA1; UBA1	P22314; Q5JRS1;	UBA1	HUMA	Deamidation (N)	2111300	2532700	2246000	0	163000	102140	0	0	0
NHIQLVK	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH	HUM	Unmodified	1530800	1460700	1249000	71604	85393	76296	0	0	0
NHIQLVK	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH	HUM	Deamidation (N)	446240	1035800	1345400	22557	0	0	0	0	0
NHLVEIPPNLPSSLVELR	BGN; BGN	P21810; C9JKG1	PGS1	HUMA	Unmodified	846530	0	0	0	0	0	0	0	0
NHLVEIPPNLPSSLVELR	BGN; BGN	P21810; C9JKG1	PGS1	HUMA	Deamidation (N)	100370	0	133190	0	0	0	0	0	0
NHPGLLLMDTTFR	PC; PC	P11498; A0A494	PYC	HUMAN	Oxidation (M)	1583700	934940	1001200	36023	19151	19699	0	0	0
NHTLALTETGSVFAFGENK	RCC2	Q9P258	RCC2	HUMA	Unmodified	140450	146610	1211400	0	0	0	0	0	0
NIAFFSTNCVEGTAR	ATP1A1	P05023	AT1A1	HUM	Unmodified	1302800	847120	849830	80480	76189	33993	0	0	28721
NIAFFSTNCVEGTAR	ATP1A1	P05023	AT1A1	HUM	Deamidation (N)	0	0	0	315250	0	120870	0	0	21130
NIAIQSQFTR	TPR	P12270	TPR	HUMAN	Unmodified	1580500	1358100	1869000	143910	185410	119220	0	0	0
NIALDKTDDSNPR	WDR70	Q9NW82	WDR70	HUM	Unmodified	403560	485030	534150	0	21252	22672	0	0	0
NIAPNISR	SRRT; SRRT; SRRT	Q9BXP5; H7C1K(	SRRT	HUMA	Unmodified	6821400	5122500	5224700	317350	312270	335050	32235	34627	0
NIDEHANEDVER	RAB10	P61026	RAB10	HUM	Unmodified	4981800	4616200	4593400	261500	388240	350220	0	0	0
NIDEHANEDVER	RAB10	P61026	RAB10	HUM	Deamidation (N)	2283800	2048500	2043000	141570	139530	143260	0	0	0
NIDRTELQTITNDPR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2077600	941010	1144600	341990	162830	147970	29846	41064	30005
NIDSEEVGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2592500	2591500	1359300	168200	198360	352000	0	0	0
NIDSEEVGKIASNSATAFR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	1454000	1329300	1453800	67787	50022	51271	80011	89249	54539
NIDSEEVGKIASNSATAFR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Deamidation (N)	2262900	1690200	2117900	383080	399890	356220	0	0	0
NIEDVIAQGIGK	RPLP2; RPLP2	P05387; H0YDD8	RLA2	HUMA	Unmodified	8536300	6790000	7033600	26846	36733	28626	42448	10505	0
NIEEHASADVEK	RAB8A	P61006	RAB8A	HUM	Unmodified	0	0	1755300	0	0	45954	0	0	0
NIEEILTAR	DNLZ	Q5SXM8	DNLZ	HUMA	Unmodified	1578500	1485800	1667700	13188	0	0	0	0	0
NIEELQQQNQR	TPR	P12270	TPR	HUMAN	Unmodified	2017500	1524800	1826400	0	0	0	0	0	0
NIEIDSPYEISR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	8836700	7984400	15048000	327260	405290	325280	0	0	0
NIELICQENEGENDPVLQR	MAPRE1	Q15691	MARE1	HUM	Unmodified	3700700	3164100	3114400	40045	38299	0	0	0	0
NIELICQENEGENDPVLQR	MAPRE1	Q15691	MARE1	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
NIEMTQEDVR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M)	1882900	1323000	1508400	0	0	0	0	0	0
NIEPTHAPFIEK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	1280400	1274600	0	0	39293	50324	0	0	0
NIFAILQSVK	CDC73; CDC73; CD	Q6P1J9; A0A2R8	CDC73	HUM	Unmodified	455630	191300	298110	0	0	0	0	0	0
NIFPIWALGR	LSS; LSS	P48449; A0A0G2	LSS	HUMAN	Unmodified	2422800	1757000	2389300	0	0	0	0	0	0
NIFPSNLVSAAFR	SLC1A5; SLC1A5; SI	Q15758; M0QX44	AAAT	HUM	Unmodified	683730	490240	355270	0	0	0	0	0	0
NIFWTDSNLDRIEVAK	NID1	P14543	NID1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
NIGENEGGIDKFSR	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Unmodified	1503200	1642500	1423400	0	0	0	31212	11760	11825
NIGENEGGIDKFSR	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Deamidation (N)	0	2406200	0	0	18502	0	0	0	0
NIGVDNPAAK	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUMA	Unmodified	12730000	15535000	17903000	832060	0	622510	0	0	0
NIGVVVVGFPATPIIESR	SPTLC2	O15270	SPTC2	HUM	Unmodified	250400	206320	246650	0	0	0	0	0	0
NIGLQMGTNK	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1	HUMA	Oxidation (M)	0	0	0	0	0	0	0	264990	364490
NIIGLQMGTNKFASQQGMTAYGTR	CNN1; CNN1; CNN1	P51911; K7ER02;	CNN1	HUMA	2 Oxidation (M);De	0	0	0	0	0	0	172340	162370	245140
NIIGVIPYFPYSK	PRPSAP1; PRPSAP1	Q14558; C9JNQ3;	KPRA	HUMA	Unmodified	608320	671210	843080	0	0	0	0	0	0
NIIGYFEQK	ERP44	Q9BS26	ERP44	HUM	Unmodified	1888300	2648400	2704000	0	0	140980	0	0	0
NIIGYFEQKDSDNYR	ERP44	Q9BS26	ERP44	HUM	Unmodified	1408100	617770	1478600	0	11776	0	0	0	0
NIIGYFEQKDSDNYRVFER	ERP44	Q9BS26	ERP44	HUM	Unmodified	2381200	1731800	3128400	0	0	0	0	0	0
NIIGYFEQKDSDNYRVFER	ERP44	Q9BS26	ERP44	HUM	Deamidation (N)	1475200	863050	1131300	0	0	0	0	0	0
NIIHGSDSVESAEK	NME1	P15531	NDKA	HUM	Unmodified	4565600	3797000	3526500	59335	43977	0	0	0	0
NIIHGSDSVK	NME2P1; NME2; NM	O60361; P22392;	NDK8	HUM	Unmodified	10329000	10589000	11647000	1041200	1041200	914730	34557	40847	54582
NIILEEGK	CFL1; CFL1; CFL1; (	P23528; G3V1A4;	COF1	HUMA	Unmodified	13295000	16341000	13501000	47910	53739	34335	0	0	0
NIILGGVK	UBA1; UBA1; UBA1	P22314; Q5JRS1;	UBA1	HUMA	Unmodified	1198800	913190	880640	15200	13062	0	0	0	0
NIIQQAIDAGEVPSYNAFVK	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	1526000	1178500	1501200	0	0	0	0	0	0
NIISTEDAK	C9orf78	Q9NZ63	TLS1	HUMA	Unmodified	830240	464540	482840	0	0	0	0	0	0
NIITNLSK	TOP1	P11387	TOP1	HUMA	Unmodified	1356400	1790000	1990600	42232	28224	53682	0	0	0
NIIVFYGSQTGTAEEFANR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUM	Unmodified	1017600	979470	989530	0	0	0	0	0	0
NIIVGFAR	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB	HUMA	Unmodified	2370600	1425000	1797900	68623	193370	191840	0	0	21153
NIKSHLGNVHDQDN	PCNP	Q8WW12	PCNP	HUMA	Unmodified	896830	0	928370	861150	1003200	0	0	0	0
NILAFRDQNILLGTTYR	PRKDC	P78527	PRKDC	HUM	Unmodified	6464300	4053300	4095800	0	0	0	0	0	0
NILASNPR	ASF1B; ASF1A; ASF	Q9NVP2; Q9Y294	ASF1B	HUM	Unmodified	4838300	4974500	4569800	185970	144980	0	0	0	0
NILDFPQHVSPSKDIR	THOP1; THOP1	P52888; K7EKB6	THOP1	HUM	Unmodified	4110700	4428900	6494900	132080	161040	114850	0	0	0
NILDRQDPPSVVVTSHQAPGEK	AZGP1	P25311	ZA2G	HUMA	Unmodified	1404600	1221900	857170	0	37802	48425	30217	0	0
NILETLLQMK	MRPS35	P82673	RT35	HUMA	Oxidation (M)	0	994170	915360	0	0	0	0	0	0
NILGGTVFR	IDH1; IDH2; IDH1	O75874; P48735;	IDHC	HUMA	Unmodified	13816000	12511000	12423000	431710	437490	453320	18918	17781	20311
NILGGTVFREPICK	IDH2	P48735	IDHP	HUM	Unmodified	5806500	5632100	6659800	30546	24113	0	0	0	0
NILHQGQEAILQR	DCPS; DCPS	Q96C86; A0A3B3	DCPS	HUMA	Unmodified	905860	775380	959950	0	0	0	0	0	0
NILITTNMMSSQNTANESSNALKR	TAF9	Q16594	TAF9	HUMA	Deamidation (N)	331630	595880	915170	0	0	31201	0	0	0
NILLTNEQLESAR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Unmodified	32989000	28191000	24187000	360650	237000	285330	0	0	0
NILLTNEQLESAR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Deamidation (N)	11972000	10914000	9762900	120750	87679	83599	0	0	0
NILLTNEQLESARK	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Unmodified	8995600	11267000	8732900	0	0	98078	0	0	0
NILLTNEQLESARK	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Deamidation (N)	1909600	1738900	2224800	0	0	0	0	0	0
NILMYGPPGTGK	ATAD3A	Q9NVI7	ATD3A	HUM	Oxidation (M)	0	650890	0	0	0	0	0	0	0
NILRSDTDVSMPLVEER	C9orf64	Q5T6V5	QSPP	HUMA	Oxidation (M)	1461600	2957400	2896100	0	11928	0	0	0	16721
NILTSNNIDVK	APOD; APOD	P05090; C9JF17	APOD	HUM	Deamidation (N)	438860	555300	474000	0	0	0	0	0	0
NILVSSAGSR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	1586300	1772200	1469000	20112	36130	24147	17538	0	14349
NIMTQNVER	VAMP8; VAMP8	Q9BV40; B8ZZT4	VAMP8	HUM	Oxidation (M)	1769800	1814500	1609500	218180	329910	276540	0	0	0
NINIGDISIKVPNLPSFK	AP3S1	Q92572	AP3S1	HUM	Unmodified	0	73841	111010	0	0	0	0	0	0
NINITKDLLDLLVEAK	DDX3X; DDX3X; DI	O00571; A0A2R8	DDX3X	HUM	Unmodified	68875	0	20576	0	0	0	0	0	0
NINQPKENQELCAILDK	N/A	N/A	N/A		Deamidation (N)	10426000	7689200	0	385710	0	0	0	0	0
NIPEDNADMAR	ATIC; ATIC	P31939; C9JLK0	PUR9	HUMA	Oxidation (M)	791640	742210	1051100	0	0	0	0	0	0
NIPGITLLNVSK	RPL4; RPL4	P36578; H3BM89	RL4	HUMAN	Unmodified	4480500	4615200	5334400	39728	42379	42199	0	43876	0
NIPGITLLNVSKLNILK	RPL4; RPL4	P36578; H3BM89	RL4	HUMAN	Unmodified	1371700	582410	1004200	0	0	0	0	0	0
NIPIIVLPLK	IGSF3	O75054	IGSF3	HUMA	Unmodified	224040	125180	295140	0	0	0	0	0	0
NIPIPTLKDFAK	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3	HUM	Unmodified	876030	772090	509160	11101	0	11188	0	0	0
NIPMLFVR	LSM3	P62310	LSM3	HUMA	Oxidation (M)	18339000	17835000	14447000	0	363580	0	31191	0	0
NIPMTLELLQSTR	TCEA1; TCEA1; TCI	P23193; E5RJ93;	TCEA1	HUM	Oxidation (M)	5566300	3053500	4624900	0	0	0	0	0	0
NIPPYFVALVPQEEELDDQK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	6846200	6755000	5475100	0	0	0	0	0	0
NIPQGAPVK	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM	Unmodified	4871800	3800100	3734100	85262	0	0	0	0	0
NIQACKELAQTTR	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUM	Unmodified	1558900	2022100	1592600	0	0	0	0	12885	0
NIQDSIAK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	897710	986780	983780	0	0	0	0	0	0
NIQDTSDLDAIAK	FAM120A; FAM120	Q9NZB2; A0A0C	F120A	HUM	Unmodified	1059900	0	1104600	39789	0	0	0	0	0
NIQDTSDLDAIAKDVFQHSQSR	FAM120A; FAM120	Q9NZB2; A0A0C	F120A	HUM	Unmodified	1833200	1642800	1792200	0	0	0	0	0	0
NIQDVQSQISK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1022100	1129800	1116300	0	0	0	0	0	0
NIQVSHQEFSK	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	2029900	2564100	2762000	161790	0	112590	17130	0	0
NIREFEEEKVKR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	1136400	1116600	718010	0	0	0	0	0	0
NISEIIAK	ATP6V1C1; ATP6V1	P21283; E7EV59	VATC1	HUM	Unmodified	670710	666810	0	0	0	0	0	0	0
NISELFYYAQK	RHOT2; RHOT1; RH	Q8IXI1; Q8IXI2; I	MIRO2	HUM	Unmodified	1454800	0	1410800	0	0	0	0	0	0
NISHDTFGTTYGR	RPF2	Q9H7B2	RPF2	HUMA	Unmodified	0	2574000	1245500	0	0	0	0	0	0
NISHYEEQLVK	PRKAR2A; PRKAR2	P13861; H7C330	KAP2	HUMA	Unmodified	895430	1153800	683080	88205	78056	125530	0	0	0
NISMSVEGDYTYLR	SUPT16H	Q9Y5B9	SP16H	HUM	Oxidation (M)	1859500	2768000	1011800	0	0	0	0	0	0
NISNYFTFIKDQTVTNPKTQR	NBEAL1; NBEAL1	Q6ZS30; H7BZA0	NBEL1	HUM	Deamidation (N)	1459500	1320100	954940	0	0	0	0	0	0
NISQDMTQTSGTNLTSEELRK	ATXN3; ATXN3; AT	P54252; A0A0A0	ATX3	HUMA	Oxidation (M)	1044800	1499700	1157300	0	0	0	0	0	0
NITLDDASAPR	CSDE1; CSDE1	O75534; E9PLT0	CSDE1	HUM	Unmodified	0	2132600	1973800	0	0	36132	0	0	0
NITLNFGPQHPAAHGVLR	NDUFS2; NDUFS2; N	O75306; A0A7D	NDUS2	HUM	Unmodified	3804200	3336600	3451500	32213	0	0	0	0	0
NITLPALQPPSNVGSER	SYTL2	A0A0U1RR07	A0A0U1RR07		Unmodified	0	0	0	30780	30171	21795	0	0	0
NITRPFEDQTSLEFFSK	RPF2; RPF2	Q9H7B2; Q5VXN	RPF2	HUMA	Unmodified	0	298820	298130	0	0	0	0	0	0
NITYEELR	OCIAD1; OCIAD1; O	Q9NX40; D6RBN	OCAD1	HUM	Unmodified	7308500	8435300	6918500	219400	0	245810	0	12120	0
NITYLPAGQSVLLQLPQ	PHB; PHB	P35232; C9JZ20	PHB	HUMAN	Unmodified	636330	516730	673730	0	0	0	0	0	0
NIVDKTASFVARNGPEFEAR	SF3A1	Q15459	SF3A1	HUM	Deamidation (N)	12699000	9655000	8531000	32015	64189	0	25342	0	11721
NIVLSGGSTMFR	ACTR3; ACTR3	P61158; B4DXW1	ARP3	HUMA	Oxidation (M)	1157800	1940300	1590100	0	0	0	0	0	0
NIVLYDMR	DCAF13; DCAF13; I	Q9NV06; A0A087	DCA13	HUM	Oxidation (M)	642570	426340	414140	0	0	0	0	0	0
NIYLMDTSGK	RPA1; RPA1	P27694; I3L4R8	RFA1	HUMA	Oxidation (M)	2176300	1729500	1577900	0	0	0	0	0	0
NIYSEELR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	3068500	3434900	2627500	235010	220300	303010	0	0	0
NIYSEELRETK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	4786500	1464100	3763500	493930	422420	780940	0	43734	27180
NIYVLQELDNPGAK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	4704000	3664000	4321700	59833	38506	40059	0	18307	0
NIYVLQELDNPGAKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	3458800	4318700	3719000	0	0	0	0	0	0
NKAMINLHIQKDNPK	CISD1	Q9NZ45	CISD1	HUM	Oxidation (M);Metl	308810	574330	477010	0	0	0	0	0	0
NKDGVLVDEFGLPQIPAS	CHMP5	Q9NZZ3	CHMP5	HUM	Unmodified	2119200	1698500	2180000	0	0	0	0	0	0
NKDQGTYEDYVEGLR	MYL6; MYL6; MYL	P60660; G3V1Y7;	MYL6	HUM	Unmodified	5734800	9057200	6690000	329480	358010	47861	0	0	0
NKDQGTYEDYVEGLR	MYL6; MYL6; MYL	P60660; G3V1Y7;	MYL6	HUM	Deamidation (N)	0	1275400	0	0	0	0	0	0	0
NKDQGTYEDYVEGLRVFDKEGNGTVMGAEIR	MYL6; MYL6; MYL	P60660; G3V1Y7;	MYL6	HUM	Oxidation (M);Deai	5643300	3264600	3140100	0	0	0	0	0	0
NKDRDDMVRTVIEPMACDGLR	ATP2B4	P23634	AT2B4	HUM	Oxidation (M);3 M	0	1187800	1389200	0	0	0	0	0	0
NKEEAAEYAK	RPS6; RPS6	P62753; A2A3R5	RS6	HUMAN	Unmodified	1268000	849780	880940	0	0	33325	0	0	0
NKEPPAPAQQLQPQPVAVQGPEPAR	TMEM165; TMEM16	Q9HC07; D6RBL(	TM165	HUM	Unmodified	5671300	4999600	5487500	207690	199720	150130	0	0	0
NKEPPAPAQQLQPQPVAVQGPEPARVEK	TMEM165	Q9HC07	TM165	HUM	Unmodified	1396900	1887400	1391500	0	0	0	0	0	0
NKESKDPADETEAD	STMN1	P16949	STMN1	HUM	Unmodified	63595000	60929000	57673000	880370	361240	718700	0	0	0
NKESKDPADETEAD	STMN1	P16949	STMN1	HUM	Methyl (KR)	2053600	2191100	975440	0	0	0	0	0	0
NKEVTWEVLEGEVEKEALKK	SSB	P05455	LA	HUMAN	Unmodified	6651000	4476500	4706000	0	0	0	0	0	0
NKFEEAER	PRKCSH; PRKCSH;	P14314; K7ELL7;	GLU2B	HUM	Unmodified	0	28961000	22115000	2939100	2663100	2110800	0	0	0
NKGKKNGK	KNG1	P01042	KNG1	HUMA	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
NKLVQTAELTK	GMFB; GMFB	P60983; G3V4P8	GMFB	HUM	Unmodified	317170	503280	322460	0	0	0	0	0	0
NKMASNIFGTPEENQASWAK	JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUMA	Oxidation (M)	399150	652510	766590	32927	35619	39282	29581	0	0
NKNAAQELATLLLSLPAPASVQQQSK	UBR4; UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUMA	Unmodified	174740	0	124990	0	0	0	0	0	0
NKNLPPEEQMISALPDIK	PPM1G	O15355	PPM1G	HUM	Oxidation (M)	723830	0	565460	0	0	0	0	0	0

NKNPAPPIDAVEQILPTLVR	KPNA2; KPNA2; KPI	P52292; A0A7I2V	IMA1_HUMA	Unmodified	2823800	1980000	2688900	0	0	0	0	0	0
NKNPAPPIDAVEQILPTLVR	KPNA2; KPNA2; KPI	P52292; A0A7I2V	IMA1_HUMA	Deamidation (N)	205360	163630	253090	0	0	0	0	0	0
NKPDMNYETMGR	ELF4; ELF2; ELF1; E	Q99607; Q15723;	ELF4_HUMA	2 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
NKPSDLGTKLQDPR	STIP1; STIP1	P31948; F5H783	STIP1_HUM	Unmodified	1610800	1527400	2086200	0	0	0	0	0	0
NKPYISWPSSGGSEPSVTVPLR	CDC42BPB	Q9Y5S2	MRCKB_HUM	Unmodified	611150	555650	635840	0	0	0	0	0	0
NKQPVTDPLLTPVEK	UTP14A; UTP14A	Q9BVJ6; X6RJY0	UTI14A_HUM	Unmodified	0	0	741960	0	0	0	0	0	0
NKSNEDQSMGNWQIK	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Oxidation (M);3 De	0	713200	0	0	0	0	0	0	0
NKSNEDQSMGNWQIK	LMNA; LMNA; LMN	P02545; A0A6Q8I	LMNA_HUM	Oxidation (M);2 De	347130	224970	0	0	0	0	0	0	0
NKTEYEEAQDAIVK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	2197600	2884500	2965400	0	14769	0	0	0	0
NKTGAAPIIDVVR	RPL27A; RPL27A; R	P46776; E9PJD9;	RL27A_HUM	Unmodified	1511500	2114600	0	0	0	0	0	0	0
NKYETEINITK	DSP	P15924	DESP_HUMA	Unmodified	2497200	3705400	2424000	89485	89544	92717	0	0	0
NLAAFPASHDPDPAIPAPTATPSAR	MINK1	Q8N4C8	MINK1_HUM	Unmodified	1142400	1285700	1112600	274590	254010	191290	53046	0	51248
NLALDEAGQR	CYBRD1	Q53TN4	CYBR1_HUM	Unmodified	0	0	0	600540	225540	617630	141050	109940	44309
NLALDEAGQRSTM	CYBRD1	Q53TN4	CYBR1_HUM	Oxidation (M)	0	0	0	757790	731270	717100	331710	355070	370750
NLAMEATYINHNFSQQCLR	EIF3D	O15371	EIF3D_HUMA	Oxidation (M);Dea	2413500	557240	669100	37727	30613	20440	0	23500	0
NLAMGVNLTSMSK	PCNA	P12004	PCNA_HUMA	2 Oxidation (M)	3073700	2195300	2999000	0	0	0	0	0	0
NLAMGVNLTSMSK	PCNA	P12004	PCNA_HUMA	2 Oxidation (M);De	0	0	647180	0	0	0	0	0	0
NLANTVTEEILEK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	2082800	1926600	2728100	13192	0	13747	19400	20604	24599
NLANTVTEEILEK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Deamidation (N)	732740	0	1586500	0	0	0	0	0	0
NLANTVTEEILEKAFSQFGKLER	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	154280	0	0	0	0	0	0	0	0
NLATTVTEEILEK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	22038000	20790000	16015000	24567	19626	25655	12426	32087	15764
NLATTVTEEILEK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Deamidation (N)	78480	74158	84999	0	0	0	0	0	0
NLATTVTEEILEKSFSEFGKLER	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	589510	0	0	0	0	0	0	0	0
NLAVSQVVHK	SERPINA3; SERPIN/	P01011; G3V3A0	AACT_HUM/	Unmodified	4215100	5972800	10729000	143770	93102	126750	0	0	0
NLCSDDTPMVR	PPP2R1A; PPP2R1A	P30153; C9J9C1	2AAA_HUMA	Oxidation (M)	1540200	1434400	1334700	0	0	0	0	0	0
NLCSDDTPMVRR	PPP2R1A; PPP2R1A	P30153; C9J9C1	2AAA_HUMA	Oxidation (M);Met	3557800	2732800	3449100	1192200	1233200	1009200	180030	145820	169410
NLDAQYEMAR	RSRC2	Q7L4I2	RSRC2_HUM	Oxidation (M)	1336300	1588800	2251800	147050	105920	148590	0	0	0
NLDDGIDDER	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Unmodified	1639400	1524800	1192300	74998	48010	33870	0	0	0
NLDDGIDDERLR	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1_HUM	Unmodified	6842700	6429100	5788200	315260	120180	321410	0	0	0
NLDDLTLLK	MIX23; MIX23; MIX	Q4VC31; C9JQ41	MIX23_HUM	Unmodified	1161500	1753000	1741800	7953	0	0	0	0	0
NLDDTIDDEKLRK	PABPC4; PABPC4; F	Q13310; B1ANR0	PABP4_HUM	Unmodified	621500	514070	1006100	0	0	0	0	0	0
NLDENGLDLLSK	CDK1; CDK1	P06493; A0A024(	CDK1_HUMA	Deamidation (N)	2574600	1788600	1879800	0	0	0	0	0	0
NLDFQDVLDKLADMGIAIR	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M)	314290	0	0	0	0	0	0	0	0
NLDIERPTYTNLNR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	45771000	39127000	43243000	364850	372460	526990	182160	0	0
NLDIERPTYTNLNR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	1847100	0	0	0	0	0	0	0	21272
NLDITGVK	SLTM; SLTM; SLTM	Q9NWH9; H0YLF	SLTM_HUMA	Unmodified	1332400	2524000	1490100	0	0	0	0	0	0
NLDITGVKTVLISR	SLTM; SLTM; SLTM	Q9NWH9; H0YLF	SLTM_HUMA	Unmodified	695600	1188300	796200	0	0	0	0	0	0
NLDITGVKTVLISR	SLTM; SLTM; SLTM	Q9NWH9; H0YLF	SLTM_HUMA	Methyl (KR)	1064200	0	434900	0	0	0	0	0	0
NLDKDMYGDDLEAR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1_HUM/	Oxidation (M)	1113100	1316700	830790	54690	0	0	0	0	0
NLDKEYLPIGGLAEFCK	GOT2	P00505	AATM_HUM	Unmodified	1648300	0	2510900	0	0	0	0	0	0
NLDLAVLELMQSSVDNTK	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	1529400	1400200	604800	0	0	0	0	0	0
NLDNIVLQQPR	EXOC6B; EXOC6B;	Q9Y2D4; A0A0U1	EXC6B_HUM	Unmodified	0	0	0	107980	75634	68427	0	0	0
NLDPLVYLLSK	TUBGCP2; TUBGCP	Q9BSJ2; F2Z2B9	GCP2_HUMA	Unmodified	225060	0	239380	0	0	0	0	0	0
NLDTGGNKSVLMER	SAFB2	Q14151	SAFB2_HUM	Oxidation (M)	2162800	3011700	0	0	0	35412	0	0	0
NLDVQLLDTKR	TPR	P12270	TPR_HUMAN	Unmodified	0	3738600	5412600	538310	529750	619260	0	0	0
NLDYVATSIHEAVTK	GOT1	P17174	AATC_HUM/	Unmodified	1090400	1034400	1261000	0	0	0	0	0	8271.4
NLDYVATSIHEAVTKIQ	GOT1	P17174	AATC_HUM/	Unmodified	4042700	1575800	1822900	0	0	0	0	0	0
NLEAYAANPHSFVFTR	PPAN; PPAN-P2RY1	Q9NQ55; A0A0A(	SSF1_HUMA	Unmodified	1634100	1249900	0	0	0	0	0	0	0
NLEFQGPLEISR	VPS37C; VPS37C	A5D8V6; F5H4Q5	VPS7C_HUM	Unmodified	3159400	1880100	1664800	64454	48540	46590	0	0	0
NLEGYVGFANLPNQVYR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7_HUM	Unmodified	1016600	809820	1171700	0	0	0	0	0	0
NLEGYVGFANLPNQVYR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7_HUM	Deamidation (N)	218440	0	280530	0	0	0	0	0	0
NLEGYVGFANLPNQVYRK	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7_HUM	Unmodified	1122800	1537300	0	0	0	0	0	0	0
NLELAAVR	MECR	Q9BV79	MECR_HUM	Unmodified	970820	1145300	863290	103730	134570	127300	0	0	0
NLELLSVAR	MRPL18	Q9H0U6	RM18_HUMA	Unmodified	5594000	1973600	1916800	133160	352400	271870	10891	15756	12365
NLELLSVARKERGWR	MRPL18	Q9H0U6	RM18_HUMA	4 Methyl (KR)	1189600	1077200	1576200	0	18794	40356	11169	0	0
NLEPALPGR	MORF4L2; MORF4L	Q15014; Q5JXX1;	MO4L2_HUM	Unmodified	332280	359180	347420	0	0	49903	0	0	0
NLEPEWAAAASEVK	PDIA6	Q15084	PDIA6_HUM	Unmodified	2036800	0	0	0	0	0	0	0	0
NLEPEWAAAASEVKEQTK	PDIA6	Q15084	PDIA6_HUM	Unmodified	7841700	9380500	0	42105	0	0	0	0	0
NLEPEWAAAASEVKEQTK	PDIA6	Q15084	PDIA6_HUM/	Methyl (KR)	0	1174500	1152500	0	0	0	0	0	0
NLEQFAR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Unmodified	2744700	2049500	1876600	0	0	48799	0	0	0
NLEQYNKLDQDLNEVK	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	504460	1874600	641020	0	0	0	0	0	0
NLEQYNKLDQDLNEVK	SMC3	Q9UQE7	SMC3_HUMA	Deamidation (N)	0	436620	549200	0	0	19740	0	0	0
NLESALR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	2547500	1864200	2417800	0	0	0	0	0	0
NLESHLMSPAEIPGQPVPK	EIF4ENIF1; EIF4ENI	Q9NRA8; B0QYZ	4ET_HUMAN	Oxidation (M)	1340800	0	1227800	0	0	0	0	0	0
NLETPLCKNGFLLDGFPR	AK2; AK2; AK2; AK	P54819; G3V213;	KAD2_HUMA	Deamidation (N)	428070	1197100	1307700	0	0	0	0	0	0
NLFAEIIEEHLANR	HPF1	Q9NWY4	HPF1_HUMA	Unmodified	38922	299250	0	0	0	0	0	0	0
NLFELAR	VPS4A; N/A	Q9UN37; I3L4J1	VPS4A_HUM	Unmodified	478400	401280	0	0	0	0	0	0	0
NLFGPVDHEELTR	CDKN1B; CDKN1B;	P46527; H7C2T1;	CDN1B_HUM	Unmodified	641940	813950	0	78593	63311	115290	0	0	0
NLFGSGSLR	KIF1A; KIF1A; KIF1	Q12756; A0A3F2'	KIF1A_HUM/	Unmodified	640180	1023400	705670	0	0	0	0	0	0
NLFLTGNQLAVLPAGAFAR	TPBG	Q13641	TPBG_HUMA	Unmodified	1112000	603980	837700	0	0	0	0	0	0
NLFLTGNQLAVLPAGAFAR	TPBG	Q13641	TPBG_HUMA	Deamidation (N)	370070	471100	394460	0	0	0	0	0	0
NLFQLAR	VPS4B	O75351	VPS4B_HUM	Unmodified	1189400	630730	665760	10966	0	11109	0	0	0
NLGALYR	KLC1; KLC4; KLC1;	Q07866; Q9NSK0	KLC1_HUMA	Unmodified	1424600	1961200	1881100	42976	29592	0	0	0	0
NLGANHYSSDSQLSAGLTPPTSEDGK	ANKRD34B	A5PLL1	AN34B_HUM	Deamidation (N)	0	0	0	1439200	1405100	2622400	0	0	0
NLGESEIR	PSMD6; PSMD6; PSI	Q15008; C9J7B7;	PSMD6_HUM	Unmodified	0	282180	673250	0	44651	0	0	0	0
NLGFGMGIEFR	SUPT16H	Q9Y5B9	SP16H_HUM/	Oxidation (M)	3518200	3517900	3557700	0	0	0	0	0	0
NLGFTAIPLHGQMSQSK	DDX47	Q9H0S4	DDX47_HUM	Oxidation (M)	1038200	850020	925920	20696	0	33410	0	0	0
NLGIGKVSSFEEK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	435790	452450	718290	108180	0	0	0	0	0
NLGIPIITVLGDSKNNVR	CKAP5	Q14008	CKAP5_HUM	Deamidation (N)	0	749980	620540	0	0	0	0	0	0
NLGIPLGQDAEEK	SLC25A24; SLC25A2	Q6NUK1; J3KN42	SCMC1_HUM	Unmodified	2838800	3406100	2783700	36332	39602	39444	0	0	0
NLGLEELGIELDPR	DLD; DLD	P09622; E9PEX6	DLDH_HUM/	Unmodified	3639200	1149900	2542300	0	0	0	0	0	0
NLGMTDAFELGK	SERPINB6; SERPINE	P35237; A0A087	SPB6_HUMA	Oxidation (M)	7501500	5558400	5643700	407830	411540	624490	41467	0	45364
NLGQNLWGPHR	RCC2	Q9P258	RCC2_HUMA	Unmodified	10687000	6964000	6906900	93695	39050	57965	0	0	0
NLGQNLWGPHR	RCC2	Q9P258	RCC2_HUMA	Deamidation (N)	1095100	667140	794930	0	10705	15690	0	0	0
NLGSINTELQDVQR	SEC22B; SEC22B	O75396; A0A087	SC22B_HUM	Deamidation (N)	2592200	2333300	1450200	127930	134780	118110	0	0	16444
NLGSINTELQDVQR	SEC22B; SEC22B	O75396; A0A087	SC22B_HUM	Unmodified	6906000	6642000	10188000	310480	257280	186060	0	0	0
NLGTALAELR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	3884800	2626000	2729900	19110	31595	22576	0	12646	8083.7
NLGTIAKSGTSEFLNK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	324070	498340	545600	0	0	0	0	0	0
NLHGDGIALWYTR	LMAN2; LMAN2; LM	Q12907; D6RIU4;	LMAN2_HUM	Unmodified	1197300	0	2915800	0	0	10256	0	0	0
NLHHELELGVVMGKR	FAHD1	Q6P587	FAHD1_HUM	Oxidation (M)	0	905520	921750	93671	314740	107360	0	0	0
NLHIPTMENGPELILR	BCAT2; BCAT2; BC	O15382; B3KSI3;	BCAT2_HUM	Oxidation (M);Dea	4400500	3545900	3951200	0	0	0	0	0	0
NLHQSGFSLSGAQIDDNIPR	DPYSL2; DPYSL2	Q16555; A0A1C7(	DPYL2_HUM	Unmodified	7826300	9211800	9810100	90463	48155	31085	0	51523	48445
NLHQSGFSLSGAQIDDNIPRR	DPYSL2; DPYSL2	Q16555; A0A1C7(	DPYL2_HUM	Unmodified	3740200	3433300	3534200	0	0	0	0	31662	50320
NLHQSGFSLSGTQVDEGVR	DPYSL3; DPYSL3	Q14195; H0YBT4	DPYL3_HUM	Unmodified	3859000	2104500	3775500	270460	251130	248070	297560	254590	271300
NLHQSNFSLSGAQIDDNNPRR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	Unmodified	2160000	1883400	2393400	0	0	0	0	0	0
NLHVVFTMNPSSEGLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	668270	568760	1145100	0	0	0	0	0	0
NLHVVFTMNPSSEGLKDR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	7080200	8319800	5393700	0	60748	55305	0	0	0
NLIDAGVDALR	IMPDH2; IMPDH2; I	P12268; A0A7I2V	IMDH2_HUM	Unmodified	1875100	2623700	3550900	62822	59669	92660	0	28557	11660
NLIDRSALDQYR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1645500	1742500	1476000	87225	173340	243920	26011	24542	21604
NLIEWLNKYM	CMBL	Q96DG6	CMBL_HUM/	Oxidation (M)	1700900	1063800	1078500	0	0	0	0	0	0
NLIFKDGVLSEWSGR	FAM91A1	Q658Y4	F91A1_HUM	Unmodified	1227100	267350	0	0	0	0	0	0	0
NLIGTYMCICGPGYQR	FBN1; FBN1	P35555; H0YND0	FBN1_HUMA	Oxidation (M)	0	0	0	0	0	17421	70933	70560	77025
NLILAGVK	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1_HUMA	Unmodified	1112500	1024300	0	0	0	0	0	0	0
NLILVVR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	1287800	1112100	1118100	0	0	8922.8	8558.8	0	0
NLIQTLVSGIAPATR	CHTF18; CHTF18; C	Q8WVB6; A0A0L	CTF18_HUM	Unmodified	1235300	619930	1206200	0	0	0	0	0	0
NLISPDLGVVFLNVPENLK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Unmodified	93671	34301	94562	0	0	0	0	0	0
NLISPDLGVVFLNVPENLKNPEPNIK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Unmodified	307500	0	416850	0	0	0	0	0	0
NLITNLQR	COLEC12	Q5KU26	COL12_HUM	Unmodified	0	0	0	322090	326120	285660	0	17149	0
NLKASLENSLREVEAR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	1183200	584690	706620	0	0	35992	0	0	0
NLKHSVDELQK	SHTN1	A0MZ66	SHOT1_HUM	Methyl (KR)	2256400	2379900	2867500	137660	170650	0	0	0	0
NLKPIKPMQFLGDEETVR	PGAM1	P18669	PGAM1_HUM	Oxidation (M)	2317600	1616000	4255800	0	0	0	0	0	0
NLKTEEEEEEEEEEEEDDEEEEGDDEGQKSR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	Unmodified	861520	735170	1040400	0	0	0	0	0	0
NLKTQAESKAEKEAK	TCF7; TCF7; TCF7;	P36402; H0YBC8	TCF7_HUMA	2 Methyl (KR);Dea	0	0	2001400	0	0	0	0	0	0
NLKVPSGQNADVQKTDN	NAA50; NAA50; NA	Q9GZZ1; A0A087	NAA50_HUM	Unmodified	1310700	1128400	1460800	242490	279980	226550	0	40359	29922
NLKVPSGQNADVQKTDN	NAA50; NAA50; NA	Q9GZZ1; A0A087	NAA50_HUM	Deamidation (N)	4401900	2185800	1881000	437250	187370	232780	0	0	0
NLKVTAVPTLLK	TXNDC17; TXNDC1	Q9BRA2; I3L2R6	TXD17_HUM	Unmodified	2184700	2322000	2891800	91742	136840	128990	0	0	0
NLKVTAVPTLLK	TXNDC17; TXNDC1	Q9BRA2; I3L2R6	TXD17_HUM	Methyl (KR)	739400	436120	366160	0	0	0	0	0	0
NLLDVIDQAR	PTK2; PTK2; PTK2;	Q05397; E9PEI4;	FAK1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
NLLESYHVPELIK	LRPPRC	P42704	LPPRC_HUM	Unmodified	1305200	942680	1177000	0	0	0	0	0	0
NLLGLYPR	TP53BP2; PPP1R13B	Q13625; Q96KQ4	ASPP2_HUM	Unmodified	441010	560290	549370	0	0	0	0	11495	16296
NLLHVTDTGVGMTR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Oxidation (M)	20325000	18706000	18236000	265160	260530	174460	0	0	0
NLLHVTDTGVGMTR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Oxidation (M);Dea	1060600	1014600	1129400	0	0	0	0	0	0
NLLHVTDTGVGMTREELVK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Oxidation (M)	21629000	25298000	26948000	81137	0	0	0	0	0
NLLHVTDTGVGMTREELVKNLGTIAK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Oxidation (M)	2613900	1598000	1642200	0	0	0	0	0	0
NLLIFENLIDLKR	PRKDC	P78527	PRKDC_HUM	Unmodified	417120	40313	208110	0	0	0	0	0	0
NLLKKEYNVNDDSMK	HLTF; HLTF	Q14527; A0A0C4(	HLTF_HUMA	Methyl (KR);2 Dea	0	0	905280	0	0	0	0	0	0
NLLNLDVIK	WDR36; WDR36	Q8NI36; A0A0A0	WDR36_HUM	Unmodified	445450	1445700	1364600	0	0	0	0	0	0
NLLQNIH	ERO1A	Q96HE7	ERO1A_HUM	Unmodified	1251800	1112100	896680	0	0	0	0	0	0
NLLSVAYK	SFN; YWHAB; YWH	P31947; P31946; I	1433S_HUMA	Unmodified	393980000	342350000	251580000	2020300	1937500	1892200	127020	135990	136000
NLLSVAYK	SFN; YWHAB; YWH	P31947; P31946; I	1433S_HUMA	Deamidation (N)	5307600	4569400	4710200	62247	0	0	0	7872.5	0
NLLSVAYKNVIGAR	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E_HUMA	Unmodified	8654500	5549400	476210	0	0	0	0	0	0
NLLSVAYKNVIGAR	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E_HUMA	Deamidation (N)	6011800	8406500	4078000	0	0	0	0	0	0

NLLSVAYKNVIGAR	YWHAE; YWHAE; Y	P62258; E3L3T1; I	1433E	HUMA	Methyl (KR)	729520	381860	543500	0	0	0	0	0	0
NLLSVAYKNVVGAR	YWHAB; YWHAZ; Y	P31946; P63104; (	1433B	HUM/	Deamidation (N)	6357000	6908700	11883000	56614	0	34001	10884	16576	0
NLLSVAYKNVVGAR	YWHAB; YWHAZ; Y	P31946; P63104; (	1433B	HUM/	Unmodified	6834900	7746600	6860100	35227	0	0	0	0	0
NLLSVAYKNVVGAR	YWHAB; YWHAZ; Y	P31946; P63104; (	1433B	HUM/	Methyl (KR)	415710	0	0	0	0	0	0	0	0
NLLSVAYKNVVGGR	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Unmodified	1039800	730440	1011300	0	0	0	0	0	0
NLLSVAYKNVVGGR	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Methyl (KR);Deam	1303900	0	0	0	0	0	0	0	0
NLLSVAYKNVVGGR	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUMA	Deamidation (N)	2377800	7554200	1687600	0	0	0	0	0	0
NLLTGLVR	MRPL17; MRPL17	Q9NRX2; E9PKV	RM17	HUMA	Unmodified	1377100	1693400	1330900	0	0	0	0	0	0
NLLTVTSSDEMMK	PRKDC	P78527	PRKDC	HUM	2 Oxidation (M)	1949700	0	0	0	0	0	0	0	0
NLLYEYAR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM/	Unmodified	1577700	1704100	1538600	38590	41959	55985	0	0	0
NLMFLVLR	NARS1; NARS1; NA	O43776; K7EMQ6	SYNC	HUMA	Oxidation (M)	347280	564580	495640	10154	0	9185.5	0	0	0
NLMIDIQK	CADM1; CADM1; C	Q9BY67; X5DQS	CADM1	HUM	Oxidation (M)	1251400	898060	822560	22758	39643	19103	0	0	0
NLMTSEIHNTVK	ZW10	O43264	ZW10	HUMA	Oxidation (M);Deai	453230	455730	499340	31679	0	30420	0	0	0
NLMTSEIHNTVK	ZW10	O43264	ZW10	HUMA	Oxidation (M)	578170	421460	625980	49376	51083	71148	0	0	0
NLNGHSIGQYR	METAP2; METAP2;	P50579; F8VRR3;	MAP2	HUM/	Deamidation (N)	961900	837690	777760	0	0	0	0	0	0
NLNGTLHELLR	ALDH18A1	P54886	P5CS	HUMA	Deamidation (N)	2723100	1890900	2582400	0	0	0	0	0	0
NLNLATDK	JAK2	O60674	JAK2	HUMA	Unmodified	0	986780	0	0	0	0	0	0	0
NLNPEDIDQLITISGMVIR	MCM4; MCM4; MC	P33991; A0A3B3I	MCM4	HUM	Oxidation (M)	1017700	197890	1071700	0	0	0	0	0	0
NLNPVFGGSGPALTGLR	USP8	P40818	UBP8	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
NLNSLFNNMEELIK	KIF11; KIF11; KIF11	P52732; A0A7I2V	KIF11	HUMA	Oxidation (M);4 De	0	0	0	0	0	0	0	0	0
NLNVILAK	LRPAP1; LRPAP1	P30533; A0A3B3I	AMRP	HUM/	Unmodified	580790	791600	460180	110060	38113	53383	15107	0	16352
NLPEEYELK	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6	HUMA	Unmodified	7597200	8678200	7994700	90461	0	106550	0	0	0
NLPEEYELKSTK	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6	HUMA	Unmodified	1327700	1191000	0	96329	69543	110990	0	0	0
NLPEGVAMEVTK	MRPS10	P82664	RT10	HUMA	Oxidation (M)	993560	949780	935600	35073	0	0	0	0	0
NLPFDFTWK	HNRNPM; HNRNPM	P52272; M0R2I7;	HNRPM	HUM	Unmodified	24016000	26754000	28804000	0	0	0	0	0	11807
NLPGLVQEGEPFSEEATLFTK	SND1; SND1	Q7KZF4; H7C597	SND1	HUMA	Unmodified	3659400	2426100	4183500	0	0	0	0	0	0
NLPIYSENIIEMYR	MYH10; MYH10	P35580; E7ERA5	MYH10	HUM	Oxidation (M)	295650	228440	968210	0	0	0	0	0	0
NLPLADQGSSHHITVK	DSP	P15924	DESP	HUMA	Unmodified	4099900	4354000	4127300	112100	0	105550	0	0	0
NLPLGWDGKPIPYWLYK	SF3A3	Q12874	SF3A3	HUM/	Unmodified	476730	368450	467170	0	0	0	0	0	0
NLPLPPPPPPR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Unmodified	52342000	46543000	55601000	2980700	3405800	2996300	737960	724650	0
NLPLPPPPPPRGGDLMAYDR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	4924900	4628500	4171700	1818000	1590800	1504700	293910	0	235280
NLPLPPPPPPRGGDLMAYDR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M);Met	1903700	1542100	1601900	130650	0	0	0	0	0
NLPLPPPPPPRGGDLMAYDRR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	2998900	0	0	657480	616700	437980	0	72931	78857
NLPPSGAVPVTGIPPHVVK	G3BP1; G3BP1; G3B	Q13283; A0A7I2V	G3BP1	HUM	Unmodified	2221300	2400100	1762100	135960	57084	73640	0	0	0
NLPYGFIQELVR	UBE4B	O95155	UBE4B	HUM	Unmodified	334030	270760	421160	0	0	0	0	0	0
NLPYGRLEDILSR	HECTD1; HECTD1; I	Q9ULT8; H0YJP0	HECD1	HUM	Methyl (KR);Deam	73795	69509	0	0	0	0	17267	0	0
NLPYKITAEEMYDIFGKYGPIR	SF3B6	Q9Y3B4	SF3B6	HUM/	Oxidation (M)	871820	403350	696200	0	0	0	0	0	0
NLPYKVTQDELK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	1153100	1422400	1072600	0	0	0	0	0	0
NLPYKVTQDELKEVFEDAAEIR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Unmodified	22911000	20697000	28264000	0	0	0	0	0	0
NLPYKVTQDELKEVFEDAAEIR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM/	Methyl (KR)	2097500	722060	1483000	0	0	0	0	0	0
NLQDAMQVCR	CCT3; CCT3	P49368; B4DUR8	TCPG	HUMA	Oxidation (M)	1503500	1349100	1215800	0	0	0	0	0	0
NLQDPFYPR	TCEAL2; TCEAL4; T	Q9H3H9; Q96EI5;	TCAL2	HUM	Unmodified	3760600	3653200	3568000	176720	130120	129240	0	0	0
NLQDVVER	LIG3; LIG3; LIG3	P49916; K7ERZ5;	DNLI3	HUM/	Unmodified	0	2294600	1834400	0	64754	0	10378	0	0
NLQEAEEWYK	PRPH; VIM; VIM; PR	P41219; P08670; I	PERI	HUMA	Unmodified	6556800	8029300	8628600	1925100	2332100	1824500	22088	21451	0
NLQEAEEWYKSK	PRPH; VIM; VIM; PR	P41219; P08670; I	PERI	HUMA	Unmodified	3195800	2006200	3658800	1118700	873200	1004600	68878	0	91144
NLQEGNLER	TMED1; TMED1; TM	Q13445; K7EQ63;	TMED1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NLQEIQQAGER	NUP93; NUP93; NUP	Q8N1F7; H3BRI8	NUP93	HUM	Unmodified	2465500	1949100	2178600	170960	106910	90306	0	0	0
NLQEQTVQLQSELSR	TPR	P12270	TPR	HUMA	Unmodified	2329400	5282700	2349400	63468	58065	19347	0	0	0
NLQGISSFR	COL6A2; COL6A2	P12110; C9JH44	CO6A2	HUM	Unmodified	3789400	1394900	2113900	0	0	225570	0	62188	76224
NLQGLLQMAITAGSEEPDPPPEPMSEER	HSPBP1; HSPBP1; H	Q9NZL4; K7EL16	HPBP1	HUM	2 Oxidation (M)	2094400	624910	2993700	0	0	0	0	0	0
NLQLFMENK	TOP1; TOP1MT; TOI	P11387; Q969P6;	TOP1	HUMA	Oxidation (M)	817060	0	598470	0	0	0	0	0	0
NLQNLLILTAIK	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Unmodified	3063000	3607500	3973600	0	0	0	0	0	0
NLQNLLILTAIKADR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Unmodified	1190200	744920	0	0	0	0	0	0	0
NLQPASEYTVSLVAIK	FN1	P02751	FINC	HUMA	Unmodified	1819500	1069700	889290	16469	16277	0	0	0	0
NLQSEVEGVK	VAMP8; VAMP8	Q9BV40; B8ZZT4	VAMP8	HUM	Unmodified	1621900	1626800	158390	0	0	0	0	0	0
NLQSEVEGVKNIMTQNVER	VAMP8; VAMP8	Q9BV40; B8ZZT4	VAMP8	HUM	Oxidation (M)	2473900	3220100	3398900	58534	47466	0	0	0	0
NLQSVVLSK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	9272800	7054000	6927300	17288	18388	22757	0	0	0
NLQYYDISAK	RAN; RAN; RAN; RA	P62826; J3KQE5;	RAN	HUMA	Unmodified	14071000	15698000	11693000	0	512820	917120	0	0	0
NLRDIDEVSSLLR	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUMA	Deamidation (N)	342070	302190	217760	0	0	0	0	0	0
NLRDIDEVSSLLR	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUMA	Unmodified	3750000	3625300	3641700	0	0	0	16237	0	0
NLRPGDSQTAAQAR	IRGQ; IRGQ	Q8WZA9; M0QZI	IRGQ	HUMA	Unmodified	3124800	1979700	1545700	0	0	0	0	0	0
NLRVDLQR	PSMD5	Q16401	PSMD5	HUM	Unmodified	1751900	3513700	5639100	141270	228930	179990	0	0	0
NLRVNAGDQPGADLGPLITPQAK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA	HUM	Deamidation (N)	767000	723440	896980	0	0	0	0	0	0
NLRVYDPSTSTLNVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	0	76063	64046	90908	12841	0	0
NLSDVATKQEGLESVLK	JUP	P14923	PLAK	HUMA	Unmodified	1771200	1561800	2117500	0	0	0	0	0	0
NLSEAQLR	CALML5	Q9NZT1	CALL5	HUM	Unmodified	2182900	1741600	9889300	334770	287980	375190	0	0	0
NLSEAQLRK	CALML5	Q9NZT1	CALL5	HUM	Unmodified	753220	631110	916090	0	0	0	0	0	0
NLSELQDTSLQQLVSQR	DNTTIP2; DNTTIP2	Q5QJE6; J3KP30	TDIF2	HUMA	Unmodified	2890700	0	124900	0	0	0	0	0	0
NLSFFLTPPCAR	STAT1; STAT1; STA	P42224; A0A669	STAT1	HUM	Unmodified	0	816120	812560	12319	0	0	0	0	0
NLSIYDGPEQR	ETFDH	Q16134	ETFD	HUMA	Unmodified	487290	785130	680760	148740	305420	231060	0	0	0
NLSPGAVESDVR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUM	Unmodified	2725000	2735000	2549100	254440	242280	284610	0	0	0
NLSPVVSNELLEQAFSQFGPVEK	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1	HUM	Unmodified	699260	154210	493020	0	0	0	0	0	0
NLSSDEATNPISR	NUFIP2	Q7Z417	NUFP2	HUM	Unmodified	563460	678130	770370	0	45755	0	0	0	0
NLSSNEAISLEEIR	PRKDC	P78527	PRKDC	HUM	Unmodified	0	0	975680	0	0	0	0	0	0
NLSTVMDEIHTVLK	CCAR1	Q8IX12	CCAR1	HUM	Oxidation (M)	0	549200	1245000	0	0	0	0	0	0
NLSYQVHR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	Unmodified	805480	824480	798710	115070	140520	147560	0	0	0
NLTALGLNLVASGGTAK	ATIC; ATIC	P31939; F8WEF0	PUR9	HUMA	Unmodified	1423300	966990	877050	0	0	0	0	0	0
NLTIKTESTLK	FABP5P3; FABP5; F	A8MUU1; Q0146	FB5L3	HUM	Unmodified	1691900	1837400	1670800	137210	147090	63222	0	0	0
NLTLQLEQESNKR	ROCK1; ROCK1	Q13464; A0A0U1	ROCK1	HUM	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
NLTVILSDASAPGEGEHK	XRN2	Q9H0D6	XRN2	HUM	Unmodified	910020	0	1229300	0	0	0	0	0	0
NLVCTDLFTR	DDX6	P26196	DDX6	HUM	Unmodified	1273600	726990	2439400	22587	18012	15337	0	0	9782
NLVDFLTGEEVVCHVAR	MRPL44	Q9H9J2	RM44	HUM	Unmodified	0	555420	0	0	0	0	0	0	0
NLVDNITGQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	7033600	5476100	6673600	1178400	1139600	1153500	182030	215880	143110
NLVEELPQPR	MRPL13; MRPL13;	Q9BYD1; H0YAX	RM13	HUM	Unmodified	472850	1676800	746350	0	0	0	0	0	0
NLVEKTPALVNAAVTYSKPR	ATP5MG; N/A; ATP5	O75964; A0A3B3	ATP5L	HUM	Unmodified	1316000	1168300	1309700	0	0	0	0	0	0
NLVESELQR	CC2D1A; CC2D1A; (	Q6P1N0; A0A7P0	C2D1A	HUM	Unmodified	1233600	1337900	1005600	118220	117380	0	0	0	0
NLVLAGIK	UBA6	A0AVT1	UBA6	HUM	Unmodified	961910	672550	998560	0	0	0	0	0	0
NLVLLVR	MRPL46	Q9H2W6	RM46	HUM	Unmodified	1226200	1001800	1213600	20826	0	0	0	0	0
NLVPGESVYGEK	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUMA	Unmodified	3522600	6548700	6229000	549940	543700	427020	36327	49876	0
NLVPGESVYGEKR	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUMA	Unmodified	6200600	7030600	6625700	569330	557210	536940	44646	47190	0
NLVPGESVYGEKR	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUMA	Methyl (KR)	1201800	0	1205800	55012	0	0	0	0	0
NLVPLLLAPENLVEK	ATL2; ATL2; ATL2	Q8NHH9; B5MCN	ATLA2	HUM	Unmodified	926880	232300	325600	0	0	0	0	0	0
NLVTEDVMR	GPI; GPI; GPI; GPI; C	P06744; K7EIL4;	G6PI	HUMA	Oxidation (M)	20032000	18915000	28336000	280160	0	325050	0	0	0
NLVTEDVMR	GPI; GPI; GPI; GPI; C	P06744; K7EIL4;	G6PI	HUMA	Oxidation (M);Deai	1007300	657850	681960	0	0	0	0	0	0
NLVTEDVMRMLVDLAK	GPI; GPI; GPI; GPI; C	P06744; K7EIL4;	G6PI	HUMA	2 Oxidation (M)	16949000	16081000	19399000	0	0	0	0	0	0
NLVTGDHIPTPQDLPQR	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA	HUMA	Unmodified	767260	1494000	975240	42597	0	32124	0	146600	139440
NLVTMTTAPR	AOC3	Q16853	AOC3	HUMA	Oxidation (M)	0	0	0	38392	30435	55942	242870	233580	266610
NLVVGDETTSSLR	COL14A1; COL14A1	Q05707; J3QT83	COEA1	HUM	Unmodified	0	0	0	424330	0	463050	154130	103940	110240
NLWEKQSVDKVTSPTKV	CALD1; CALD1	Q05682; E7EX44	CALD1	HUM	Unmodified	195630	0	279310	398470	316130	77417	404540	291920	1110600
NLWPFVSDPAPTASSQAAVSAR	STXBP2; STXBP2	Q15833; R4GMY	STXB2	HUM	Unmodified	840260	488150	897430	0	0	0	0	0	0
NLWVSGLSSTTR	SAFB2	Q14151	SAFB2	HUM	Unmodified	3272600	0	2749000	60710	45448	50547	0	0	0
NLYIISVK	RPL23; RPL23; RPL	P62829; J3KT29;	RL23	HUMA	Unmodified	369020	2608400	2798000	14477	20785	16467	0	0	0
NLYPSSSPYTR	SUGT1	Q9Y2Z0	SGT1	HUM	Unmodified	0	0	3758000	0	0	0	0	0	0
NLYSDDIPHALR	EIF3E; EIF3E; EIF3E	P60228; A0A161	EIF3E	HUMA	Unmodified	0	1903400	3386000	0	0	48932	5770.8	0	0
NMAEQIIQEIYSQIQSK	TKT; TKT; TKT	P29401; A0A0B4J	TKT	HUMA	Oxidation (M)	1032100	0	677360	0	0	0	0	0	0
NMAILDPPDADHLYSAK	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1	HUM	Oxidation (M)	963160	0	1466400	44414	0	55254	11345	0	0
NMAPLPSAPR	NKX2-1	P43699	NKX21	HUM	Oxidation (M)	1448800	1209300	1016900	31251	0	0	0	0	0
NMFLVGEGDSVITQVLNK	PSIP1	O75475	PSIP1	HUMA	Oxidation (M)	1250200	0	0	0	0	0	0	0	0
NMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M)	49556000	55682000	39329000	4304700	4293100	4574300	854830	782390	323770
NMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M);Deai	23028000	27758000	16707000	2141400	1767800	2113900	427880	399030	271610
NMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M);2 De	5648800	4264100	6348200	372170	78027	206670	0	18801	60833
NMGLYGER	GOT2	P00505	AATM	HUM	Oxidation (M)	0	1001600	1212900	82064	68419	94739	0	0	0
NMKRSRGGSK	LHX3; LHX3	Q9UBR4; F1T0D7	LHX3	HUMA	Oxidation (M);Met	0	0	0	0	0	0	0	0	0
NMLFSGTNIAAGK	ATP2A1; ATP2A2; A	O14983; P16615;	AT2A1	HUM	Oxidation (M)	1276900	806150	0	0	0	0	0	0	0
NMMAACDPR	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	2 Oxidation (M)	11240000	8272700	9343700	458680	556480	524540	0	0	0
NMMAACDPR	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	2 Oxidation (M);De	1104600	958720	599830	0	0	0	0	0	0
NMPDPITAR	RBBP9	O75884	RBBP9	HUM	Oxidation (M)	582520	669050	1190500	41016	30712	30472	0	0	0
NMPGIPLTGLVGFPAGFATMPTGEEVK	CHD6	Q8TD26	CHD6	HUMA	2 Oxidation (M)	0	325900	380920	0	0	0	0	0	0
NMPGLSAATLASLGGTSSR	LRRFIP1; LRRFIP1	Q32MZ4; C9JTC6	LRRF1	HUM	Oxidation (M)	1491400	1810700	802730	47542	54035	44712	13958	0	0
NMPQADAMVLVAR	NCOA5	Q9HCD5	NCOA5	HUM	2 Oxidation (M)	2476800	2232900	2028200	414170	432660	333920	0	0	0
NMQNAEIIR	STAG1; STAG1	Q8WVM7; C9JQ9	STAG1	HUM	Oxidation (M)	897970	0	0	0	0	0	0	0	0
NMQNSEWATPNPENRQMIMMKK	PCDH11Y	Q9BZA8	PC11Y	HUM	Oxidation (M);Met	960520	2307600	0	0	0	0	0	0	0
NMQNVEHVPLSLDR	PSMB1	P20618	PSB1	HUMA	Oxidation (M)	2101300	2649000	2281900	0	0	0	0	0	0
NMSGSLYEMVSR	SSRP1	Q08945	SSRP1	HUM/	2 Oxidation (M)	0	817190	696160	0	0	0	0	0	0
NMSIIDAFK	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Oxidation (M)	1262500	1270000	1048700	0	66220	86815	0	11114	0
NMSIIDAFK	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Oxidation (M);Deai	257950	192680	236320	16010	0	19549	0	0	0
NMSVIAHVDHGK	EEF2	P13639	EF2	HUMA	Oxidation (M)	7682800	6176600	9154600	452320	293240	253700	0	0	0
NMSVIAHVDHGKSTLTDSLVCK	EEF2	P13639	EF2	HUMA	Oxidation (M)	923980	1180000	1158800	0	0	0	0	0	0
NMTPSPFLR	MRPS25; MRPS25	P82663; E7EPW2	RT25	HUMA	Oxidation (M)	0	0	865730	0	0	0	0	0	0
NMVLFTR	THYN1	Q9P016	THYN1	HUM	Oxidation (M)	759900	570960	659340	0	0	0	0	0	0
NNAITMNKR	NEB	P20929	NEBU	HUM/	Oxidation (M);Met	0	460850	620370	0	0	124060	0	31888	0
NNEMALLESKNLCMVPKKR	NRIP1	P48552	NRIP1	HUM/	2 Oxidation (M);2 1	0	1134100	0	0	0	0	0	0	0

NNFAVGYR	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2	HUM	Deamidation (N)	33456000	27901000	25627000	1706100	1658700	1455100	42443	26132	24763
NNFAVGYR	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2	HUM	2 Deamidation (N)	4563800	7038800	7282500	92525	84068	100120	0	0	0
NNFAVGYR	VDAC2; VDAC2; VD	P45880; Q5JSD1;	VDAC2	HUM	Unmodified	6112200	6050100	7159000	732020	175650	934110	0	0	0
NNFEGEVTKENLLDFIK	P4HB; P4HB; P4HB;	P07237; A0A7P0(	PDIA1	HUM	Deamidation (N)	1744300	587900	1919200	0	0	0	0	0	0
NNFEGEVTKENLLDFIK	P4HB; P4HB; P4HB;	P07237; A0A7P0(	PDIA1	HUM	2 Deamidation (N)	131510	26711	146460	0	0	0	0	0	0
NNGAGYFLEHLAFK	UQCRC1	P31930	QCR1	HUM	Deamidation (N)	896500	730250	344840	0	0	0	0	0	0
NNGRLPRPDGCPDEIYMIMTECWNNNVNQR	JAK2	O60674	JAK2	HUM	2 Oxidation (M);M	0	0	2194900	0	0	0	0	0	0
NNKASAFRNVNTR	POLR1A; POLR1A	O95602; B9ZVN9	RPA1	HUM	3 Methyl (KR);2 D	0	337270	0	0	0	0	0	0	0
NNLAGAEELFAR	CLTC; CLTC	Q00610; A0A087(	CLH1	HUM	Unmodified	4844000	4526800	5103200	0	0	0	0	0	0
NNLAGAEELFAR	CLTC; CLTC	Q00610; A0A087(	CLH1	HUM	Deamidation (N)	7070800	6005400	5444600	87609	133180	67755	0	0	8921.8
NNLFTSSAGYR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3	HUM	Unmodified	1717500	1271700	1544700	118250	51689	51973	110150	102020	0
NNNLAVTSKFNIPDLK	ATP6V1C1	P21283	VATC1	HUM	Methyl (KR);2 Dea	1272400	0	0	0	0	0	0	0	0
NNQFQALLQYADPVSAQHAK	PTBP1; PTBP1; PTB	P26599; A0A087(	PTBP1	HUM	Unmodified	2814200	2819900	0	0	0	0	0	0	0
NNQFQALLQYADPVSAQHAK	PTBP1; PTBP1; PTB	P26599; A0A087(	PTBP1	HUM	Deamidation (N)	831230	772580	0	0	0	0	0	0	0
NNQITNNQR	PGK1	P00558	PGK1	HUM	Unmodified	171510	215860	0	0	0	0	0	0	0
NNRFSTPEQAAK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Deamidation (N)	1513500	1884700	0	162470	109150	104050	0	0	0
NNSFVNEIISR	MSH2	P43246	MSH2	HUM	Unmodified	0	1008100	0	0	0	0	0	0	0
NNTAAETEDDESDGEDRGGGTSGSLRRSK	NIPBL	Q6KC79	NIPBL	HUM	2 Methyl (KR)	1089000	0	1248900	0	0	0	0	0	0
NNVILQPLQPDTPYK	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Deamidation (N)	0	0	0	27622	26012	15419	0	0	0
NNVMVIETWNK	C2CD3; C2CD3; C2C	Q4AC94; A0A7P0(	C2CD3	HUM	Oxidation (M)	0	446560	352950	0	104300	0	0	0	0
NPALYASNVR	LPCAT1; LPCAT1	Q8NF37; A0A0G2	PCAT1	HUM	Unmodified	535070	288640	0	0	0	0	0	0	0
NPAMMQEMMR	UBQLN2; UBQLN1;	Q9UHD9; Q9UM2	UBQL2	HUM	4 Oxidation (M)	1525500	1132800	1656900	79522	25696	45576	0	0	0
NPAMMQEMMRNQDR	UBQLN1; UBQLN4;	Q9UMX0; Q9NRI	UBQL1	HUM	4 Oxidation (M);De	0	3330200	2773800	110990	0	0	0	0	0
NPAPPIDAVEQILPTLVR	KPNA2; KPNA2; KP	P52292; A0A7I2V	IMA1	HUM	Unmodified	0	0	312580	0	0	0	0	0	0
NPAVLSAASFDGR	SEC31A; SEC31A; SI	O94979; H7BXG7	SC31A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NPDDITNEEYGEFYK	HSP90AA1	P07900	HS90A	HUM	Deamidation (N)	21617000	21774000	21311000	354400	303420	369200	0	0	0
NPDDITNEEYGEFYK	HSP90AA1	P07900	HS90A	HUM	Unmodified	27773000	29185000	31336000	734520	689970	892520	0	0	0
NPDDITQEEYGEFYK	HSP90AB1	P08238	HS90B	HUM	Unmodified	36543000	36055000	37224000	840030	808640	698650	0	18434	0
NPDRVLIGGDETPEGQR	UGDH	O60701	UGDH	HUM	Unmodified	0	0	0	80679	51645	59017	0	0	0
NPEAALSPTFR	METTL3; METTL3;	Q86U44; B4E349;	MTA70	HUM	Unmodified	0	753260	864940	85110	81242	102830	0	0	0
NPEISHLLNNPDIMR	UBQLN2	Q9UHD9	UBQL2	HUM	Oxidation (M)	2286200	1245300	399900	0	0	0	0	0	0
NPEISHMLNNPDIMR	UBQLN1	Q9UMX0	UBQL1	HUM	2 Oxidation (M)	5556400	5660700	5100000	0	134970	284570	0	0	0
NPELPNAAQAQK	SMARCA5	O60264	SMCA5	HUM	Deamidation (N)	524780	0	0	0	0	0	0	0	0
NPELSTQLIDIIHTAAAR	TEX10	Q9NXF1	TEX10	HUM	Unmodified	1606400	1922200	1826300	0	0	0	0	0	0
NPEPELLVR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	8034800	7056800	8360600	80856	166860	70883	0	0	0
NPEQEPIPIVLR	ARHGAP1; ARHGAI	Q07960; H0YE29	RHG01	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NPEQVDLYQFMAK	MARS1	P56192	SYMC	HUM	Oxidation (M)	809890	633810	720220	0	0	10222	0	0	0
NPETSVTQSSSAQDEPATK	CWC22; CWC22	Q9HCG8; B7WP7	CWC22	HUM	Deamidation (N)	572670	5200000	752110	1094000	108340	504450	0	0	0
NPEVGLKPVWYSPK	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUM	Unmodified	4379000	3393600	3408000	98423	132520	124440	0	0	20397
NPEVPVNFAEFSK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Unmodified	4857500	3856400	5648500	40643	51620	41378	0	0	0
NPEVPVNFAEFSKK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Unmodified	1099800	704930	668730	0	0	0	0	0	0
NPFDTFFGQR	DNAJB1; DNAJB1; D	P25685; A0A1B0(	DNJB1	HUM	Unmodified	1048600	1189500	0	35903	0	0	0	0	0
NPFGNAGLLLGEAGK	ACADVL; ACADVL	P49748; G3V1M7	ACADV	HUM	Unmodified	0	0	1920600	0	0	0	0	0	0
NPFLAAVTTNR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUM	Unmodified	1225900	0	1025600	49687	41916	42865	0	0	0
NPGPSGPQLR	STX12; STX12	Q86Y82; B1AJQ6	STX12	HUM	Unmodified	959170	485390	747720	0	0	0	0	0	0
NPHNDRFVLSK	TKT; TKT; TKT	P29401; F8W888;	TKT	HUMAN	Deamidation (N)	1826900	1230100	1359400	119550	167340	156720	0	0	0
NPHPSSAFLNLIGFVSR	BLVRA; BLVRA	P53004; C9J1E1	BIEA	HUMA	Unmodified	476570	436790	348350	0	0	0	0	0	0
NPLGSTHPEATLK	LRBA; LRBA; LRBA	P50851; A0A494(	LRBA	HUM	Unmodified	5791400	6952300	7708900	358330	292510	354490	62187	56209	0
NPLPSKETIEQEK	TMSB4X	P62328	TYB4	HUM	Unmodified	44197000	32685000	28592000	363910	304300	271110	35310	51524	0
NPLPSKETIEQEK	TMSB4X	P62328	TYB4	HUMA	Methyl (KR)	5330400	3985300	5064400	75722	0	0	0	0	0
NPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4	HUMA	Unmodified	21309000	24317000	21680000	569390	449380	754160	319960	263690	205150
NPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4	HUMA	Methyl (KR)	2799700	2968700	3101000	0	0	0	0	0	0
NPNGPYPYTLK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Deamidation (N)	3754500	4134100	3527100	63129	70471	52827	0	0	0
NPNLLFTLK	RANBP9	Q96S59	RANB9	HUM	Unmodified	1371600	577990	1601800	10010	0	7006.2	0	0	0
NPNTSEPQHLLVMK	ATP1A1	P05023	AT1A1	HUM	Oxidation (M)	1502100	939220	979670	0	0	0	0	0	0
NPPAFTELQLPR	PDE12; PDE12	Q6L8Q7; F6T1Q0	PDE12	HUM	Unmodified	2169500	1799200	1893400	102830	101260	66120	0	0	0
NPPGEDCEPLVGSPKR	TNFRSF11A	Q9Y6Q6	TNR11	HUM	Unmodified	43108000	41444000	48029000	3982100	3442500	4733000	0	70209	85630
NPPGFAFVFEDPR	SRSF3; SRSF7; SRSF	P84103; Q16629;	SRSF3	HUM	Unmodified	19269000	17041000	16390000	46071	35357	160600	18810	32898	0
NPPGFAFVFEDPRDAADAVR	SRSF3; SRSF3	P84103; A0A087)	SRSF3	HUM	Unmodified	231180000	228030000	226550000	225990	154060	78582	52677	31554	15482
NPPGFAFVFEDPRDAEDAVR	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Unmodified	114070000	107450000	94193000	138630	100130	34373	18625	18409	0
NPPLAEALLSGDLEK	DDI2; DDI2; DDI2	Q5TDH0; H0YB90	DDI2	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
NPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M);Deai	6705000	8096500	5892900	190690	184040	106920	0	0	0
NPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M)	7197400	5089600	5850300	284150	323490	350200	17766	16910	0
NPPPNADPNMKLFTIR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Oxidation (M);2 De	2039600	7529900	2581900	97834	123610	32069	0	0	0
NPPPNSDPNLRR	FUBP3	Q96I24	FUBP3	HUM	Deamidation (N)	2020000	1430700	1518600	149070	0	0	0	33961	11141
NPPSESEGSDGRFLISYDR	PIP4K2C; PIP4K2C;	Q8TBX8; F8VU63	PI42C	HUM	Unmodified	996410	1178100	875950	0	24889	0	0	0	0
NPQAVLDVLK	PAK2; PAK3; PAK3	Q13177; O75914;	PAK2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NPQMGDPGSLQPK	FNBP1L; FNBP1L	Q5T0N5; A0A075	FBP1L	HUM	Oxidation (M)	0	468580	474860	0	0	18173	0	0	0
NPQMPQYSSPQPGSALSPR	ARID1A; ARID1A; A	O14497; A0A087)	ARI1A	HUM	Oxidation (M)	1881800	1822300	1999500	42446	0	89586	0	0	0
NPQNSTVLAR	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
NPQQHLNAQPQVTMQQPAVHVQGQEPLTASMLASAPPQEQK	PABPC1; PABPC1; P	P11940; A0A087)	PABP1	HUM	2 Oxidation (M)	6097100	4938500	0	0	0	0	0	0	0
NPQQHLNAQPQVTMQQPAVHVQGQEPLTASMLASAPPQEQK	PABPC1; PABPC1; P	P11940; A0A087)	PABP1	HUM	2 Oxidation (M);De	0	2391800	3129000	0	0	0	0	0	0
NPSAAFFCVAR	GGCT; GGCT; GGCT	O75223; B8ZZK2;	GGCT	HUM	Unmodified	1820900	1643700	1832300	32504	27208	0	0	0	0
NPSDSAVHSPFTK	UBAP2L; UBAP2L	Q14157; F8W726	UBP2L	HUM	Unmodified	804000	893730	237450	0	0	0	0	0	0
NPSSAAPVQSR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	2029900	1915500	0	854190	0	513140	0	0	0
NPSTNFQEPVQPLTQQQVAQMQLK	SRM; SRM	P19623; K7EL89	SPEE	HUMA	Oxidation (M)	1729500	1279600	2184500	0	0	0	0	0	0
NPVMELNEK	STRBP; ILF3	Q96SI9; Q12906	STRBP	HUM	Oxidation (M)	2294700	3051700	2189700	118880	0	0	0	0	0
NPVMELNEK	STRBP; ILF3	Q96SI9; Q12906	STRBP	HUM	Oxidation (M);Deai	971990	1199900	896200	24134	51847	0	0	0	0
NPVTIFSLATNEMWR	SSBP1; SSBP1; SSBP	Q04837; C9K0U8	SSBP	HUMA	Oxidation (M)	648290	395210	465500	0	0	0	0	0	0
NPVTIFSLATNEMWR	SSBP1; SSBP1; SSBP	Q04837; C9K0U8	SSBP	HUMA	Oxidation (M);Deai	459130	326020	227580	0	0	0	0	0	0
NPYYGGESASITPLEDLYK	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB	HUMA	Unmodified	2795200	3558500	3175600	0	0	0	0	0	0
NPYYGGESASITPLEDLYKR	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB	HUMA	Unmodified	3155100	3340400	3281100	0	0	0	0	0	0
NPYYGGESSSITPLEELYK	GDI1; GDI1	P31150; G5E9U5	GDIA	HUMA	Unmodified	2273000	1993700	3067300	0	0	0	0	0	0
NPYYGGESSSITPLEELYKR	GDI1; GDI1	P31150; G5E9U5	GDIA	HUMA	Unmodified	0	0	1076600	0	0	0	0	0	0
NQAAIQGRPPYAASAEEVAK	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A	HUM	Unmodified	478680	478790	511430	42946	53723	68495	0	0	0
NQALKEAGVFVPR	ACLY	P53396	ACLY	HUM	Unmodified	5100200	4969600	3593900	273970	131890	0	0	0	0
NQAVNFLR	CHMP1B	Q7LBR1	CHM1B	HUM	Unmodified	1488000	885130	1088000	34130	0	47102	0	0	0
NQCTQVVQER	DSP	P15924	DESP	HUMA	Unmodified	1496300	1298700	1129000	60854	0	113570	29299	0	0
NQDATVYVGGLDEK	SF3B4	Q15427	SF3B4	HUM	Unmodified	0	1624500	1613800	0	180230	0	0	0	0
NQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2	HUMA	Deamidation (N)	4331400	9063200	8425500	0	0	0	0	0	0
NQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2	HUMA	Unmodified	7401900	4477400	0	0	0	0	0	0	0
NQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2	HUMA	2 Deamidation (N)	221050	319430	207630	0	0	0	0	0	0
NQDLEFER	ACO1	P21399	ACOC	HUM	Unmodified	1715600	1146800	861370	65694	60799	60695	0	0	0
NQEDNKVKDLNQEIEK	LUZP1	Q86V48	LUZP1	HUM	Deamidation (N)	0	0	1206200	0	0	0	0	0	0
NQELEVVR	DCTN1; DCTN1; DC	Q14203; Q6AWB	DCTN1	HUM	Unmodified	713710	1177700	1102400	18325	0	0	0	0	0
NQEQLAAELAEFTAK	RDX; RDX; RDX	P35241; A0A2R8	RADI	HUMA	Unmodified	529570	419670	0	0	0	0	0	0	0
NQEQLLTLASILR	HEBP2	Q9Y5Z4	HEBP2	HUM	Unmodified	1777200	1396800	1374900	0	0	0	0	0	0
NQEQLLTLASILR	HEBP2	Q9Y5Z4	HEBP2	HUM	Deamidation (N)	24189	18195	25028	0	0	0	0	0	0
NQEQLLTLASILREDGKVFDEK	HEBP2	Q9Y5Z4	HEBP2	HUM	Unmodified	597830	725340	370120	0	0	0	0	0	0
NQFETEINITK	DSP	P15924	DESP	HUMA	Unmodified	902210	666740	814740	0	0	0	0	0	0
NQGGYGGSSSSSSYGSGR	HNRNPA1; HNRNP/	P09651; H0YH80;	ROA1	HUMA	Unmodified	38903000	37875000	40453000	7158500	8145400	8341200	393980	485460	307390
NQGGYGGSSSSSSYGSGR	HNRNPA1; HNRNP/	P09651; H0YH80;	ROA1	HUMA	Deamidation (N)	20196000	19843000	23699000	1896700	1523600	1763800	0	0	0
NQHFEVPFIAFYR	SUPT6H	Q7KZ85	SPT6H	HUM	Unmodified	744420	0	493600	0	0	0	0	0	0
NQIALWDQLLEGR	AATF; AATF; AATF;	Q9NY61; A0A7P0(	AATF	HUMA	Unmodified	0	208830	0	0	0	0	0	0	0
NQLEEVPSALPR	PRELP	P51888	PRELP	HUM	Unmodified	470530	428570	0	0	159420	106240	0	0	0
NQLNPIGSLQELAIHHGWR	PRKRA; PRKRA; PR	O75569; B4DJC7;	PRKRA	HUM	Unmodified	1339900	1569400	1765700	0	0	0	0	0	0
NQLNPIGSLQELAIHHGWR	PRKRA; PRKRA; PR	O75569; B4DJC7;	PRKRA	HUM	Deamidation (N)	1046200	877060	766170	0	0	0	0	0	0
NQLSTLPEELGDLPLVR	LRCH4	O75427	LRCH4	HUM	Unmodified	647300	414440	268930	0	0	0	0	0	0
NQLTAMSSVLAK	EIF3A	Q14152	EIF3A	HUMA	Oxidation (M)	2744300	0	1939600	0	0	0	0	0	0
NQLTSNPENTVFDAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	4843700	5427700	3681800	122680	102100	118010	0	0	0
NQLTSNPENTVFDAK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	11028000	12217000	8894900	315960	295570	329910	0	0	0
NQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	31382000	30786000	28166000	784760	1000200	847890	29772	0	0
NQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	57928000	47153000	56963000	2498600	2272800	3220900	0	0	222300
NQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Methyl (KR)	2051000	2741600	2200100	0	0	39582	0	0	0
NQLTSNPENTVFDAKR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Methyl (KR);Deam	0	0	0	0	0	0	0	0	0
NQLVTPEPTSR	MDC1	Q14676	MDC1	HUM	Unmodified	1289000	1215700	1644400	0	0	0	32287	0	0
NQMLIEEEVQK	UCHL5; UCHL5; UC	Q9Y5K5; H0Y4K(	UCHL5	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
NQNSWGTGEDVK	LMNB1	P20700	LMNB1	HUM	Deamidation (N)	1343700	940870	995400	0	0	0	0	0	0
NQPGKYSQLVVETIR	H1-10	Q92522	H1X	HUMAN	Unmodified	1027400	1206600	1119600	0	12336	0	0	0	0
NQPQFQQMR	RAD23B	P54727	RD23B	HUM	Oxidation (M)	5888900	5653400	5813100	287970	302270	347140	0	24582	20640
NQQDDGKMFIGGLSWDTSKKDLTEYLSR	HNRNPDL; HNRNPI	O14979; A0A087)	HNRDL	HUM	Oxidation (M)	634290	614970	742230	0	0	0	0	0	0
NQQIFLR	GRB2; GRB2	P62993; J3QLF6	GRB2	HUM	Unmodified	2260000	2121800	1759500	147860	132630	166910	0	0	0
NQSDLKDLQDDIQNR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	435750	394230	609460	0	0	13954	0	0	0
NQSETLNWLSNAIKEFGFSGLNVK	CKAP5	Q14008	CKAP5	HUM	Unmodified	0	900880	0	0	0	0	0	0	0
NQTQVLR	FAF2	Q96CS3	FAF2	HUMA	Unmodified	2275600	1886800	2030300	148540	240380	138990	0	0	0
NQVALNPQNTVFDAK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	2208000	1916900	1955100	165110	100590	93266	0	0	0
NQVALNPQNTVFDAK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	4655400	3663600	4023800	346920	330720	306920	20545	18334	21936
NQVALNPQNTVFDAKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	21232000	21168000	22555000	1571900	1627500	1585100	116380	172130	118800
NQVALNPQNTVFDAKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Deamidation (N)	12483000	8610000	9808900	436310	469620	552040	39946	36156	0
NQVALNPQNTVFDAKR	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	2 Deamidation (N)	445660	418280	441960	19468	0	0	0	0	0
NQVAMNPTNTIFDAK	HSPA2	P54652	HSP72	HUM	Oxidation (M)	548610	244240	254750	0	0	0	29835	0	0
NQVAMNPTNTIFDAKR	HSPA2	P54652	HSP72	HUM	Oxidation (M)	2927500	0	0	0	66888	0	0	0	0

NQVAMNPTNTVFDAK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);Dea	4594500	5512600	5770800	93064	0	121830	0	0	0
NQVAMNPTNTVFDAK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M)	6188000	5981000	7867000	217310	242560	177380	0	0	0
NQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M)	28763000	34948000	33159000	662480	932340	853020	79891	0	0
NQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);Dea	29638000	27528000	28200000	367350	339280	1213900	404500	0	0
NQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);Met	833360	793060	887550	0	0	0	0	0	0
NQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);2 De	2799000	2858100	2419700	0	0	19722	21438	0	0
NQVEDLLATLEK	NCSTN; NCSTN; NC	Q92542; H0Y3Z4;	NICA	HUM	Unmodified	1160100	0	1055600	0	0	0	0	0	0
NQVSLTCLVK	IGHG2; IGHG4; IGH	P01859; P01861;	IGHG2	HUM	Unmodified	1802100	1782400	1560200	144970	105280	129760	32752	0	24337
NQVSYVRPAEPAFLAR	KIAA1143	Q96AT1	K1143	HUM	Unmodified	1530500	1268700	1680600	95175	101490	92928	33495	23847	33650
NQVTQLKEQVPGFTPR	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC	HUM	Unmodified	1851900	1122600	626350	0	0	0	0	0	0
NQYDNDVTVWSPQGR	PSMA1; N/A	P25786; B4DEV8	PSA1	HUM	Deamidation (N)	665440	616860	473980	21834	27517	20974	0	0	0
NRDASTLQSQKAEGTGDAK	HMGN4	O00479	HMGN4	HUM	Unmodified	0	0	2096300	0	1700400	0	0	0	0
NREEEWDPEYTPK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	1942000	2198300	2405000	161410	148850	177030	0	0	0
NREELGFRPEYSASQLK	PARP1; PARP1; PAR	P09874; A0A7Z7	PARP1	HUM	Unmodified	9786000	16634000	12392000	163180	61774	133070	0	0	0
NREELGFRPEYSASQLK	PARP1; PARP1; PAR	P09874; A0A7Z7	PARP1	HUM	Deamidation (N)	1405100	1380700	1152500	0	0	0	0	0	0
NREILDESLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	1224900	767740	1068800	0	42839	0	0	0	0
NRELAILLGMLDPAEKDEK	PRDX6	P30041	PRDX6	HUM	Oxidation (M)	573410	694410	706220	0	0	0	0	0	0
NREPLMPSPQFIK	TOMM70	O94826	TOM70	HUM	Oxidation (M)	1333700	1213500	992180	0	0	0	0	0	0
NREPVQLETLSIR	SNRPD1; SNRPD1	P62314; J3QLI9	SMD1	HUM	Unmodified	5116300	4296000	4305200	0	0	156850	27780	0	50962
NREPVQLETLSIRGNNIR	SNRPD1; SNRPD1	P62314; J3QLI9	SMD1	HUM	Deamidation (N)	1274100	2633100	2664100	0	0	0	0	0	0
NRETASELLMR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Oxidation (M)	2783900	5361000	4206600	0	0	45479	0	0	0
NRFGAQQDTIEVPEKDLVDKAR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	4119800	4442200	4867500	0	0	0	0	0	0
NRLEEVSPNLVR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	1959600	1211900	1826800	0	0	0	0	0	0
NRLVQHDLQVAK	CCDC50	Q8IVM0	CCD50	HUM	Unmodified	0	0	0	113710	108320	110740	0	0	0
NRNEQESAVHPR	DBNL; DBNL; DBNL	Q9UJU6; B4DDD	DBNL	HUM	Unmodified	0	0	0	111310	0	87615	37654	0	0
NRPEDYQGGR	PDIA6	Q15084	PDIA6	HUM	Unmodified	2284900	2851900	2837100	65652	68260	59997	0	0	0
NRPGSALEK	UQCRC1	P31930	QCR1	HUM	Unmodified	1797800	3467100	5432000	960740	1019600	105600	0	0	133850
NRPGSALEKEVESMGAHLNAYSTR	UQCRC1	P31930	QCR1	HUM	Oxidation (M);Dea	3551200	2186200	2709900	0	0	0	0	0	0
NRPGSALEKEVESMGAHLNAYSTR	UQCRC1	P31930	QCR1	HUM	Oxidation (M)	2759200	2649300	2437000	0	0	0	0	0	0
NRPLSDEELDAMFPEGYKVLPPPAGYVPIR	SF3B1	O75533	SF3B1	HUM	Unmodified	5312300	5748800	6343900	0	0	0	0	0	0
NRPPLPAGTNSK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Deamidation (N)	7211200	6738900	7029200	29098	31419	0	0	0	0
NRPPLPAGTNSKGPPDFSSDEEREPTPVLGSGAAAAGR	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Deamidation (N)	62278000	57908000	86283000	985860	139910	495030	0	0	0
NRPTSISWDGLDSGK	PEBP1	P30086	PEBP1	HUM	Unmodified	3801700	2479200	3099300	0	89361	23963	0	0	0
NRQVNELVR	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Unmodified	2531500	2259500	2810400	0	0	0	0	0	0
NRTPAKVEDAADSATKPENLSSK	MKI67	P46013	KI67	HUM	Unmodified	562760	488140	342120	0	0	0	0	0	0
NRTPSDVKELVLDNSR	ANP32A; ANP32A; A	P39687; H7BZ09;	AN32A	HUM	Unmodified	5498400	2809500	7132100	0	0	0	0	0	0
NRVQNMALYADVGGK	SSR4	P51571	SSRD	HUM	Oxidation (M)	593410	414660	384570	0	0	0	0	0	0
NRYQLEIPENFTTR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUM	Unmodified	2050400	2372800	1697300	51635	32972	0	0	0	0
NRYQLEIPENFTTR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUM	Deamidation (N)	1790200	959220	1607000	0	0	0	0	0	0
NSDILIR	ITPR3	Q14573	ITPR3	HUM	Unmodified	1698600	2158800	0	29637	27577	29635	0	11208	0
NSEKESTVNSIFQVIRSCNR	PLCE1; PLCE1; PLC	Q9P212; A0A6Q8	PLCE1	HUM	3 Methyl (KR);Dea	1032100	1809200	1194300	0	0	0	0	0	0
NSFRYNGLIHR	RPL28; RPL28; RPL	P46779; H0YKD8	RL28	HUM	2 Deamidation (N)	0	631980	386550	0	24372	0	0	0	0
NSILAQVLDQSAR	PDCD5; PDCD5; PDC	O14737; K7ESJ4;	PDCD5	HUM	Unmodified	4987300	5301700	5991700	13785	0	0	0	0	0
NSILAQVLDQSAR	PDCD5; PDCD5; PDC	O14737; K7ESJ4;	PDCD5	HUM	Deamidation (N)	1206000	905440	1187200	0	0	0	0	0	0
NSKLRQENMELAERLK	TXLNA	P40222	TXLNA	HUM	Oxidation (M);2 M	0	0	0	0	20862	0	0	0	0
NSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M)	2082400	1777200	2495700	123720	95046	97626	0	0	0
NSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);Dea	2944800	1500200	2353700	0	73370	37690	0	0	0
NSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);2 De	2819500	2691600	2575200	0	48624	31775	0	0	0
NSLISSLEEEVSILNR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	225660	0	0	0	0	0	0	0	0
NSLTSKDPDIKAQYQQR	KPNB1; KPNB1	Q14974; J3QR48	IMB1	HUM	Unmodified	3187100	2068900	2367400	0	0	0	0	0	0
NSLYDMAR	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4	HUM	Oxidation (M)	0	802480	598420	79874	112850	72556	0	0	0
NSMPASSFQQQK	LUC7L2; LUC7L; LU	Q9Y383; Q9NQ29	LC7L2	HUM	Oxidation (M)	1018600	0	1122400	74743	0	0	0	0	0
NSMPASSFQQQK	LUC7L2; LUC7L; LU	Q9Y383; Q9NQ29	LC7L2	HUM	Oxidation (M);Dea	564520	0	0	0	0	0	0	0	0
NSNILEDLETLR	ARCN1; ARCN1; AR	P48444; Q6P1Q5;	COPD	HUM	Deamidation (N)	198060	142010	158610	0	0	0	0	0	0
NSNILEDLETLR	ARCN1; ARCN1; AR	P48444; Q6P1Q5;	COPD	HUM	2 Deamidation (N)	4091800	3518000	3149500	118040	81516	122660	0	18580	18033
NSNLVGAAHEELQQSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	8105400	8459900	9273300	1257900	1126100	1110600	158360	120110	161420
NSNLVGAAHEELQQSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	4407700	5086800	4490300	685590	590930	621600	62877	54282	0
NSPGSQVASNPR	XRN2	Q9H0D6	XRN2	HUM	Unmodified	3712400	0	3352800	0	0	0	0	153850	0
NSPNNMSLSNQPGTPR	SSBP2; SSBP2; SSBP	P81877; H0Y9V4;	SSBP2	HUM	Oxidation (M);Met	1077000	1026800	1440000	48944	34213	0	0	0	0
NSPVEAVFSVLTGK	NUP98; NUP98; NUP	P52948; H7C3P6;	NUP98	HUM	Methyl (KR)	0	449550	0	0	0	0	0	0	0
NSPVEAVFSVLTGKR	NUP98; NUP98; NUP	P52948; H7C3P6;	NUP98	HUM	Unmodified	292850	234360	265310	0	0	0	0	0	0
NSQGEEVAQR	LMNB1	P20700	LMNB1	HUM	Unmodified	1754400	1852100	2141700	0	0	0	0	0	0
NSQPIKTLPPATSTEPSVILSK	MTDH; MTDH	Q86UE4; E5RJU9	LYRIC	HUM	Unmodified	300090	449500	465240	69672	80211	78803	0	0	0
NSSYFVEWIPNNVK	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Unmodified	909000	1510400	1215300	0	0	0	0	0	0
NSSYFVEWIPNNVK	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	Deamidation (N)	1912800	1153200	1357700	8460.7	0	0	0	0	0
NSSYFVEWIPNNVK	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A	HUM	2 Deamidation (N)	333800	502030	426170	0	0	0	0	0	0
NSTVPIRVPSNSILR	N/A	N/A	N/A		Deamidation (N)	649110	640990	0	43481	83185	49325	0	0	0
NSTWSGESK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	1525600	1888600	2456100	0	0	0	0	0	0
NSVTPDMMEEMYKK	RPL5; RPL5	P46777; A0A2R8	RL5	HUM	AN 3 Oxidation (M)	1163100	1419500	1426300	54895	52557	92603	0	0	0
NSVVEASEAAYKEAFEISK	YWHAH; YWHAH	Q04917; A2IDB2	1433F	HUM	Unmodified	836220	419940	438950	0	0	0	0	0	0
NSYVAGQYDDAASYQR	G6PD; G6PD; G6PD;	P11413; E7EM57;	G6PD	HUM	Unmodified	2262400	2365100	1826800	65835	59887	180710	0	0	0
NTAELQPESGKR	PPM1G	O15355	PPM1G	HUM	Unmodified	7348800	9670600	3276900	1032900	470280	1142800	0	0	0
NTAELQPESGKR	PPM1G	O15355	PPM1G	HUM	Deamidation (N)	1536900	2023000	981000	0	0	0	0	0	0
NTAMDAQEALAR	RSRC2; RSRC2; RSR	Q7L4I2; H0YGP9;	RSRC2	HUM	Oxidation (M)	1125300	921630	873790	0	0	0	0	0	0
NTDEMVELR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M);Dea	2856900	2539100	3085500	60858	0	64693	0	0	0
NTDEMVELR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	0	19855000	17701000	860930	0	1199700	0	0	0
NTDQASMPDNTAAQKVSHLLGINVTDFTR	MYH9	P35579	MYH9	HUM	Oxidation (M)	4892500	4312400	0	0	0	0	0	0	0
NTDQASMPDNTAAQKVSHLLGINVTDFTR	MYH9	P35579	MYH9	HUM	Oxidation (M);Dea	253910	656430	1106300	0	0	0	0	0	0
NTDVAQSPEAPKQEAPAK	RRBP1; RRBP1; RRI	Q9P2E9; V9GY78	RRBP1	HUM	Unmodified	1552100	1908500	1836300	212780	184970	182460	0	0	0
NTDVVATLK	HDGFL2; HDGFL2; I	Q7Z4V5; K7ERA4	HDGR2	HUM	Unmodified	926060	887840	770910	60465	55821	0	0	0	0
NTEAVDLITRLPK	MRPL27; MRPL27; I	Q9P0M9; H7C5U1	RM27	HUM	Unmodified	1548000	1127700	780410	50694	70018	26793	0	0	0
NTEDLTEEWLREK	GMFB; GMFB	P60983; G3V4P8	GMFB	HUM	Unmodified	0	0	972650	0	0	16049	0	0	0
NTEEEGLKYK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	1340900	485680	1149600	0	54374	0	0	0	0
NTEIGFLQDALSKPHGTVK	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM	HUM	Unmodified	4785800	6533000	6105400	25402	0	0	0	0	0
NTFAEVTGLSPGVTYYFK	FN1	P02751	FINC	HUM	Unmodified	1145300	449590	1567400	0	0	0	0	0	0
NTFDHPYPTTK	DCAF7	P61962	DCAF7	HUM	Unmodified	1003700	0	581640	38034	18276	27322	0	0	0
NTFTESAGAR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	224630	0	147660	52002	250490	0	0	0
NTFVGTPFWMAPEVIK	STK24; STK25; STK	Q9Y6E0; O00506;	STK24	HUM	Oxidation (M)	937400	852660	937990	0	0	0	0	0	0
NTGHKIETDLPQIR	PDS5A	Q29RF7	PDS5A	HUM	Unmodified	510830	507860	420240	0	0	0	0	0	0
NTGILCTIGPASR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Unmodified	23683000	19717000	24026000	1684500	2138800	2224900	550890	381380	456760
NTGILCTIGPASR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Deamidation (N)	7722500	3719800	3748400	157400	242030	198950	0	0	0
NTGTEAPDYLATVDVDPK	SELENBP1; SELENB	Q13228; C9JVL0;	SBP1	HUM	Unmodified	1777300	2318400	1211100	779360	861110	759200	0	0	0
NTHATTHNAYDLEVIDIFK	PARP1; PARP1	P09874; A0A7Z7	PARP1	HUM	Deamidation (N)	0	535760	661040	0	0	0	0	0	0
NTIEETGNLAEQAR	LAMC1	P11047	LAMC1	HUM	Unmodified	0	0	490410	0	0	0	43353	0	0
NTILFLR	FAM91A1; FAM91A	Q658Y4; E7ER68	F91A1	HUM	Unmodified	397560	597630	749880	0	0	0	0	0	0
NTIQWLENELNR	KIF5B	P33176	KIN	HUM	Unmodified	573170	138760	465780	0	0	0	0	0	0
NTKGGDAPAAGEDA	RPS25	P62851	RS25	HUM	Unmodified	0	0	3377800	1007700	0	1315500	0	0	0
NTKIEVLEEELR	DSP	P15924	DESP	HUM	Unmodified	1033500	1013900	1187900	0	17470	0	0	0	0
NTKLDDLFLKR	LRPPRC	P42704	LPPRC	HUM	Unmodified	2089600	1703600	1900700	0	0	12698	0	0	0
NTKLDDLFLKR	LRPPRC	P42704	LPPRC	HUM	Deamidation (N)	394740	292610	514190	0	0	0	0	0	0
NTLEKFTASIQR	SMC4; SMC4	Q9NTJ3; E9PD53	SMC4	HUM	Unmodified	498580	674180	337230	0	0	0	0	0	0
NTLIQFEDFGNHNAFR	ME2; ME2; ME2; MI	P23368; A0A1W2	MAOM	HUM	Deamidation (N)	213070	797530	377240	0	0	0	0	0	0
NTLLIAGLQAR	DDOST; DDOST	P39656; A0A0C4	OST48	HUM	Unmodified	1709000	1466000	1720500	78093	65220	47689	0	0	0
NTLPTKETIEQEKR	TMSB10	P63313	TYB10	HUM	Unmodified	13387000	12650000	15331000	92400	305340	214900	0	0	0
NTLPTKETIEQEKR	TMSB10	P63313	TYB10	HUM	Methyl (KR)	619000	1526300	1196700	0	0	0	0	0	0
NTLPTKETIEQEKRSEIS	TMSB10	P63313	TYB10	HUM	Unmodified	24252000	22973000	24498000	325580	0	0	0	0	0
NTLPTKETIEQEKRSEIS	TMSB10	P63313	TYB10	HUM	Methyl (KR)	0	507490	859710	0	0	0	0	0	0
NTLTQTTENLR	DSP	P15924	DESP	HUM	Unmodified	1192200	1184300	1142000	20451	0	0	0	0	0
NTMILEICTR	C3; C3	P01024; M0QYC8	CO3	HUM	AN Oxidation (M)	0	519060	0	165790	0	0	0	0	0
NTMSLLAANNLLAGLR	GRHPR	Q9UBQ7	GRHPR	HUM	Oxidation (M);Dea	596100	0	0	0	0	0	0	0	0
NTMSLLAANNLLAGLR	GRHPR	Q9UBQ7	GRHPR	HUM	Oxidation (M)	612930	863820	1171100	0	0	0	0	0	0
NTMSLLAANNLLAGLR	GRHPR	Q9UBQ7	GRHPR	HUM	Oxidation (M);2 De	51210	72294	53900	0	0	0	0	0	0
NTMSLLAANNLLAGLRGEPMPSELKL	GRHPR	Q9UBQ7	GRHPR	HUM	2 Oxidation (M);De	2556800	966440	1434200	0	0	0	0	0	0
NTMSLLAANNLLAGLRGEPMPSELKL	GRHPR	Q9UBQ7	GRHPR	HUM	2 Oxidation (M)	581010	359150	559150	0	0	0	0	0	0
NTNAGAPPGTAYQSPLPLSR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1	HUM	Unmodified	1519500	1368100	934600	0	0	86126	0	0	21952
NTNAGAPPGTAYQSPLPLSR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1	HUM	Deamidation (N)	320550	385120	485430	29872	28713	27336	0	0	0
NTNPNFVR	MYH9; MYH10	P35579; P35580	MYH9	HUM	Unmodified	2632800	2873200	2590100	136610	128480	130500	0	0	0
NTNVEDVLNAR	CCDC43; CCDC43	Q96MW1; Q86W	CCD43	HUM	Unmodified	914810	0	907610	52714	0	50408	0	0	0
NTPEYEELCPR	FBN1	P35555	FBN1	HUM	Unmodified	435500	528730	0	395160	562720	555540	0	111190	0
NTPSEPHCIVWAK	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUM	Unmodified	1259200	2890400	2096200	41255	54161	45665	0	0	0
NTQEMMKVLNRMKYEITK	MGAT4D; MGAT4D;	A6NG13; D6RCD	MGT4D	HUM	3 Methyl (KR);2 D	0	0	0	0	0	0	0	0	0
NTQIQVLPEGGETPIFK	SCIN	Q9Y6U3	ADSV	HUM	Unmodified	10913000	9223500	8778300	44944	33002	21408	0	0	0
NTQIQVLPEGGETPIFK	SCIN	Q9Y6U3	ADSV	HUM	Deamidation (N)	1252700	1239800	905740	0	0	0	0	0	0
NTSEQDQPMGGWEMIRK	LMNB1	P20700	LMNB1	HUM	2 Oxidation (M)	489550	439760	599570	0	0	0	0	0	0
NTSQTAAITTK	PPP4R3A	Q6IN85	P4R3A	HUM	Unmodified	841620	934490	0	0	0	0	0	0	0
NTTIPTKQTQTFTTYSDNQPGVLIQVYEGER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	0	0	1232900	0	0	0	0	0	0
NTTSDLQK	HDGFL3; HDGFL3	Q9Y3E1; H3BPM	HDGR3	HUM	Unmodified	0	0	262580	0	0	0	0	0	0
NTVEITELPVR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	3491100	900700	1367300	0	0	0	0	0	0
NTVTQVLSR	CTTNBP2NL	Q9P2B4	CT2NL	HUM	Unmodified	779050	743250	819450	0	0	0	0	0	0
NTVVATGGYGR	SDHA; SDHA; N/A	P31040; D6RFM5	SDHA	HUM	Unmodified	1416900	1183800	1305800	190070	164010	199420	0	0	0
NTVVLFVPQQEAWVVER	STOML2	Q9UJZ1	STML2	HUM	Unmodified	5132100	3944200	5387500	0	0	0	0	0	0
NTVVLFVPQQEAWVVER	STOML2	Q9UJZ1	STML2	HUM	Deamidation (N)	234380	278260	599450	0	0	0	0	0	0

NTVVPTKK	HSPA5; HSPA5; HSP	P11021; A0A7P07	BIP	HUMAN	Deamidation (N)	1534200	1579800	1896100	0	87430	72956	0	0	0
NTVVPTKK	HSPA5; HSPA5; HSP	P11021; A0A7P07	BIP	HUMAN	Unmodified	72015	71251	0	1408600	0	1446700	33955	0	0
NTVVPTKKSQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P07	BIP	HUMAN	Unmodified	551860	444760	492920	102480	102430	80397	0	0	0
NTWLYQALR	CTBP2; CTBP2	P56545; A0A087	CTBP2	HUM	Unmodified	1262800	0	475090	0	0	0	0	0	0
NTYYASIAK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	9376800	9925400	7130000	0	0	0	0	0	0
NVAALQER	GRIPAP1; GRIPAP1	Q4V328; A0A087	GRAP1	HUM	Unmodified	1129400	997240	1066200	38333	36568	46086	0	0	0
NVADDTRSEDLR	SRSF10; SRSF10; SR	O75494; Q6IQ42;	SRS10	HUM	Unmodified	2406000	3791300	3420000	191270	193820	221110	0	0	23613
NVALLSQLYHSPAR	ELAVL1	Q15717	ELAV1	HUM	Unmodified	2884200	3630800	4026900	50865	51045	34075	0	0	0
NVALTTFLK	NOP9; NOP9	Q86U38; A0A3B3	NOP9	HUM	Unmodified	2490300	1582700	1648200	36032	13285	20365	0	0	0
NVASGGGGVGDGVQEPTTGNWR	DNM1L	O00429	DNM1L	HUM	Unmodified	1127000	1778600	1946500	14616	0	0	0	0	0
NVCSEAAQK	RPE; RPE	Q96AT9; C9J6A7	RPE	HUMAN	Unmodified	0	189920	0	0	6865.2	7058.1	0	0	0
NVCTEAGMFAIR	PSMC6; PSMC6	P62333; A0A087	PRS10	HUM	Oxidation (M)	875310	479790	866180	45657	0	0	0	0	0
NVDCVLLAR	MTAP; N/A; MTAP;	Q13126; F2Z2F3;	MTAP	HUM	Unmodified	541130	583940	1879200	0	0	0	0	0	0
NVDGVNYASITR	CTSZ; CTSZ; CTSZ;	Q9UBR2; A0A7P	CATZ	HUM	Unmodified	3852900	1536800	1386900	306120	391620	377200	73253	60244	83460
NVDILKDPETVK	XPO1; XPO1; XPO1;	O14980; A0A7Z	XPO1	HUM	Unmodified	2582800	2743900	3245900	0	0	0	0	0	0
NVDILKDPETVKQLGSILK	XPO1; XPO1; XPO1;	O14980; A0A7Z	XPO1	HUM	Unmodified	1339600	0	1661100	0	0	0	0	0	0
NVDKVLEVPPVVYSR	ACOT7; ACOT7	O00154; K7EKP8	BACH	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NVDLLSDMVQEHDEPILK	NAP1L1; NAP1L1; N	P55209; F8VUX1;	NP1L1	HUM	Oxidation (M)	19969000	22626000	21557000	46099	28446	0	0	28217	46368
NVDLSTFYQNR	TOMM70	O94826	TOM70	HUM	Unmodified	1459300	1381600	1524800	85503	79039	46806	0	0	0
NVDMLSELVQEYDEPILK	NAP1L4; NAP1L4; N	Q99733; C9JZI7;	NP1L4	HUM	Oxidation (M)	1058400	1824400	591900	0	0	0	0	0	0
NVDSNNKELSIAIR	PRKDC	P78527	PRKDC	HUM	Deamidation (N)	0	1936800	0	0	0	0	0	0	0
NVDSSGNKSVLMER	SAFB; SAFB	Q15424; K7ES42	SAFB1	HUM	Oxidation (M)	7553400	7094000	7285100	80392	108030	195350	0	0	0
NVDSSGNKSVLMER	SAFB; SAFB	Q15424; K7ES42	SAFB1	HUM	Oxidation (M);Dea	2989700	3550900	2514800	83831	94025	0	0	0	0
NVDTNQDRLVTLEEFLASTQRK	NUCB1; NUCB1	Q02818; H7BZI1	NUCB1	HUM	Unmodified	0	1071400	880850	0	0	0	0	0	0
NVEAMNFADIER	DLST	P36957	ODO2	HUM	Oxidation (M)	11678000	10179000	10689000	201090	216430	196020	0	0	0
NVEAMNFADIER	DLST	P36957	ODO2	HUM	Oxidation (M);Dea	4384800	5272200	3900600	66784	68351	79592	0	0	0
NVEAMNFADIERTITELGEK	DLST	P36957	ODO2	HUM	Oxidation (M)	1223100	1289800	1121400	0	0	0	0	0	0
NVEAMNFADIERTITELGEKAR	DLST	P36957	ODO2	HUM	Oxidation (M)	1203400	1106500	1201100	0	0	0	0	0	0
NVEDLSGGELQR	ABCE1; ABCE1	P61221; D6R9I9	ABCE1	HUM	Unmodified	3421300	3531600	4081400	182740	167190	182490	0	0	0
NVEGQDMLYQSLK	AP1B1; AP2B1; AP2	Q10567; P63010;	AP1B1	HUM	Oxidation (M)	1336500	1739400	1889200	0	21052	0	0	0	0
NVELVEGEEGR	HK2; HK2	P52789; E9PB90	HXK2	HUM	Unmodified	948400	695940	932300	0	0	0	0	0	0
NVEMFMNIEK	SMARCC1	Q92922	SMRC1	HUM	2 Oxidation (M)	1793000	1731800	1789600	0	0	0	0	0	0
NVEPLYGFHAQEFIPFR	TAF6; TAF6; TAF6;	P49848; C9JTY6;	TAF6	HUM	Unmodified	1403100	863930	615490	0	0	0	0	0	0
NVESGEEELASKLDHYK	PGAM5	Q96HS1	PGAM5	HUM	Unmodified	0	1063200	742740	0	0	0	0	0	0
NVESYTK	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUM	Unmodified	4868700	4841000	4544900	1033500	1057300	1140400	0	0	0
NVEVIELAK	AP3B1	O00203	AP3B1	HUM	Unmodified	1336000	962510	972390	84456	82769	109750	0	0	0
NVFDEAILAALEPPEPK	CDC42	P60953	CDC42	HUM	Unmodified	1938200	1291000	1309300	0	0	0	0	0	0
NVFDEAILAALEPPEPKK	CDC42	P60953	CDC42	HUM	Unmodified	439220	325220	625390	0	0	0	0	0	0
NVFIIGATNRPDIIDPAILRPGR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	0	0	1717100	0	0	0	0	0	0
NVFLLGFIPAK	UPF1	Q92900	RENT1	HUM	Unmodified	464500	380690	413700	0	0	0	0	0	0
NVFNALIR	SLC25A11; SLC25A1	Q02978; I3L1P8	M2OM	HUM	Unmodified	0	296550	280490	0	0	0	0	0	0
NVGFESDTGGAFKGFK	NUP50; NUP50	Q9UKX7; B0QY2	NUP50	HUM	Unmodified	0	826840	572790	0	0	0	0	0	17023
NVGQFSGFPFEK	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	4876200	4356300	4085300	89543	0	0	0	0	0
NVGQFSGFPFEKGSVQYK	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	513210	303620	380460	0	0	21384	0	0	0
NVHGINFVSPVR	CTSC; CTSC; CTSC;	P53634; A0A7I2	CATC	HUM	Unmodified	730970	920400	817290	0	0	0	0	0	0
NVIEAVYNR	PPM1A	P35813	PPM1A	HUM	Unmodified	1473300	1274600	1021000	0	0	0	0	0	0
NVIEAVYSR	PPM1B; N/A; PPM1E	O75688; A0A3B3	PPM1B	HUM	Unmodified	5145000	4301400	5038500	0	111390	41823	0	0	0
NVIFQPVAELK	PFKP; PFKP; PFKP;	Q01813; A0A7Z	PFKAP	HUM	Unmodified	0	2489100	2506900	0	0	0	0	0	0
NVIFQPVAELKK	PFKP; PFKP; PFKP;	Q01813; A0A7Z	PFKAP	HUM	Unmodified	4956800	2881300	2813000	58717	32741	0	0	0	0
NVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	8146000	8436100	7379000	217990	229060	301560	104140	0	0
NVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M);Dea	3174500	5315100	4846400	32361	112840	31455	0	0	0
NVIHASDSVEGAQR	NME4; NME4; NME	O00746; Q4TT34;	NDKM	HUM	Unmodified	0	1089800	366510	0	0	0	19409	0	14099
NVINTFTQTAHSGR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM	Unmodified	2240100	2889200	3570600	0	0	0	0	0	0
NVIPALELVEPIK	PSAP; PSAP; PSAP	P07602; A0A0J9	SAP	HUMAN	Unmodified	689330	584350	595260	0	0	0	0	0	0
NVIPETSSR	MME; MME; MME;	P08473; C9IYX7;	NEP	HUMAN	Unmodified	8296700	380740	8103400	276780	0	251200	0	15279	0
NVIVLQTVLQEVR	DIS3; DIS3	Q9Y2L1; F2Z2C0	RRP44	HUM	Unmodified	153530	133960	232410	0	0	0	0	0	0
NVKGPVREGDVLTLLESER	RPS28	P62857	RS28	HUMA	Unmodified	6995300	7911000	6676600	0	0	0	0	0	0
NVKGPVREGDVLTLLESEREAR	RPS28	P62857	RS28	HUM	Unmodified	60250000	63469000	55184000	0	0	0	0	0	0
NVLAPYAVPSELVLVEEIPR	ACSF3; ACSF3; ACS	Q4G176; F5H5A1	ACSF3	HUM	Unmodified	101090	61397	109590	0	0	0	0	0	0
NVLELSNVVR	PTPRF	P10586	PTPRF	HUM	Unmodified	588330	672040	531320	44662	49712	40872	0	6864.6	10296
NVLGWQDANSTEFDPTTSHPVVVDMPEHNPGQMGGTMR	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	3 Oxidation (M);De	2039400	3617600	0	0	0	0	0	0	0
NVLINKDIR	CALR; CALR; CALR	P27797; A0A7P01	CALR	HUM	Unmodified	1377300	2090700	4565200	51949	0	49355	0	0	0
NVLITDFGSVR	PIGK; PIGK; PIGK	Q92643; B1AK81	GPI8	HUMA	Unmodified	1897300	1589200	1930700	0	0	0	0	0	0
NVLLDPQLVPGGGASEMAVAHALTEK	CCT3; CCT3	P49368; B4DUR8	TCPG	HUM	Oxidation (M)	2813900	2464500	2988200	0	0	0	0	0	0
NVLLLGEDGAGKTSLIR	DYNC1LI1	Q9Y6G9	DC1L1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
NVLLVTQHYAK	SYK	P43405	KSYK	HUM	Unmodified	1383800	859750	1409400	0	20427	36712	0	0	0
NVLSLTNKGEVFNELVGK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	2532500	0	3028200	0	0	0	0	0	0
NVLSLTNKGEVFNELVGK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Deamidation (N)	1966100	1321700	1126300	11307	0	0	23524	14144	23646
NVLTESAR	GATD3B; GATD3A;	A0A0B4J2D5; P01	GAL3B	HUM	Unmodified	12309000	11798000	9408100	679110	784340	774170	0	0	0
NVLVSEDNVAK	CSK	P41240	CSK	HUMAN	Unmodified	0	1118000	985180	156230	0	91454	0	0	0
NVMEEGKDFQPSR	COPB2; COPB2; COI	P35606; H0YAC7	COPB2	HUM	Oxidation (M)	434430	484990	949070	73058	67977	63305	0	0	0
NVMEQFNPGLR	BAIAP2L1	Q9UHR4	BI2L1	HUMA	Oxidation (M)	1084400	597530	574990	33124	0	0	0	0	0
NVMILTNPVAAK	TES; TES	Q9UGI8; F8W7T0	TES	HUMAN	Oxidation (M)	1110600	1006800	0	81628	81809	0	0	15845	0
NVMIPIFHDMMDWEQRR	DOCK4; DOCK4; DC	Q8N1I0; A0A590	DOCK4	HUM	Oxidation (M);Met	2387600	3773400	4196100	0	37496	33082	0	0	0
NVMSAFGLTDDQVSGPPSAPAEDR	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG	HUMAN	Oxidation (M)	5467800	4850200	5725700	129380	70441	137780	0	0	0
NVNIFKFIIPNVVK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM	Unmodified	1426300	1689100	1312800	0	0	0	0	0	0
NVNIFKFIIPNVVK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM	Methyl (KR)	714250	0	721320	0	0	0	0	0	0
NVNIFKFIIPNVVK	LDHA; LDHA; LDH/	P00338; F5GXY2;	LDHA	HUM	Deamidation (N)	90665	52915	40809	0	0	0	0	0	0
NVNNMRIFGEAAEK	NF1; NF1; NF1	P21359; J3KSB5;	NF1	HUMAN	2 Methyl (KR);3 D	0	0	0	0	32855	0	0	0	0
NVNQSLLELHK	FTH1; FTH1; FTH1;	P02794; G3V192;	FRIH	HUMA	Unmodified	2776900	0	2388300	701420	744910	745410	0	0	0
NVNQSLLELHK	FTH1; FTH1; FTH1;	P02794; G3V192;	FRIH	HUMA	Deamidation (N)	0	0	1614300	217110	189310	143680	0	0	0
NVNVFKFIIPQIVK	LDHB; LDHB; LDHE	P07195; A0A5F9	LDHB	HUM	Unmodified	714250	771270	721320	0	0	0	0	0	0
NVNVQNFHISWK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	257480	268120	232080	0	0	0	0	0	0
NVPAAREPEVLSTMAIIVNK	XPO1; XPO1; XPO1;	O14980; A0A7Z	XPO1	HUMA	Oxidation (M)	1750800	1450500	1535700	0	0	0	0	0	0
NVPGFLPTNDLSQPTGFLAQPMK	CNOT1	A5YKK6	CNOT1	HUM	Oxidation (M);Dea	1903000	1005700	0	0	0	0	0	0	0
NVPMTGSISHVLVQLPHVFQR	UTP25	Q68CQ4	UTP25	HUM	Oxidation (M)	567450	1066600	1013600	0	0	0	0	0	0
NVPNWHR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	Unmodified	828220	796730	1118300	0	0	0	0	0	0
NVPTDVLSFPFHEHLK	YBEY	P58557	YBEY	HUM	Unmodified	1048800	825550	0	0	0	0	0	0	0
NVPVGFGESWKK	UNG; UNG; UNG	P13051; Q68DM5	UNG	HUMA	Unmodified	811890	905230	561590	0	0	0	0	0	0
NVPVITGSK	PHB; PHB; PHB; PHI	P35232; E9PCW0	PHB	HUMAN	Unmodified	4744200	5024200	4652700	210750	190290	244140	0	0	0
NVPVITGSKDLQNVNITLR	PHB; PHB; PHB; PHI	P35232; E9PCW0	PHB	HUMAN	Unmodified	6487700	6828300	4742400	0	0	0	0	0	0
NVPYGNIQSR	GALNT2	Q10471	GALT2	HUM	Unmodified	989090	1242800	1208400	156440	183410	0	0	0	0
NVQAEEMVEFSSGLK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA	HUMA	Oxidation (M)	3404800	1624200	3227500	78018	10331	0	0	0	0
NVQGIIEILK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	4552400	2887600	3878200	20788	20217	20751	17227	16546	18231
NVQILNMVTR	TIMM23B; TIMM23	Q5SRD1; O14925	TI23B	HUMA	Oxidation (M)	0	570550	779550	0	0	0	0	0	0
NVQLQENEIR	PPP1CC; PPP1CC; P	P36873; F8VYE8;	PP1G	HUMA	Unmodified	640230	1101100	541660	0	37713	0	0	0	0
NVQLSLLTER	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Unmodified	1044600	785640	894160	46496	0	143910	0	0	0
NVQLTENEIR	PPP1CA; PPP1CA; P	P62136; E9PMD7	PP1A	HUMA	Unmodified	2038000	3398200	2210700	103910	90339	100290	0	0	0
NVQVYNPTPNSLDVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Deamidation (N)	267380	0	0	295800	345880	336180	0	0	0
NVSFNPAK	MED12; MED12	Q93074; H7C191	MED12	HUM	Unmodified	218580	0	323780	12996	0	0	0	0	0
NVSIGIVGK	PSMA1; PSMA1	P25786; F5GX11	PSA1	HUMA	Unmodified	5073900	3883000	5708500	119640	118170	165910	7939.5	0	0
NVSLGNVLAVAYATQR	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	1212500	0	0	0	0	0	0	0	0
NVSNDPDVIKLQEIPTFQPLLK	BORCS5; BORCS5	Q969J3; G3V1P3	BORC5	HUM	Unmodified	628940	928100	650810	0	0	0	0	0	0
NVSNLKPVPLIGPK	SCCPDH	Q8NBX0	SCPDL	HUM	Unmodified	1710700	1461000	1298400	76087	67545	60858	0	0	0
NVTAIQGPGGK	IDH3A; IDH3A; IDH3	P50213; H0YM64	IDH3A	HUM	Unmodified	1365900	1962500	1906300	0	21854	0	0	0	0
NVTAIQGPGGKWMIPSEAK	IDH3A; IDH3A; IDH3	P50213; H0YM64	IDH3A	HUM	Oxidation (M)	776570	959140	793290	31728	28145	23728	0	0	0
NVTEDLVPIEDIPDVHPDLQK	DDX51	Q8N8A6	DDX51	HUM	Unmodified	4850900	2922900	5160600	0	0	0	0	0	0
NVTELNEPLSNEER	YWHAG	P61981	1433G	HUM	Unmodified	3613800	3915900	4070900	307410	0	206060	0	0	0
NVTELNEPLSNEER	YWHAG	P61981	1433G	HUM	Deamidation (N)	1372500	1081300	884330	88930	115880	81780	0	0	0
NVTELNEPLSNEERNLLSVAYK	YWHAG	P61981	1433G	HUM	Unmodified	3505200	3413600	2582500	0	0	0	0	0	0
NVTKDHIMEIFSTYGK	RNPS1; RNPS1; RNP	Q15287; H3BMS0	RNPS1	HUM	Oxidation (M)	5941500	6186900	6392300	0	61351	98851	0	0	0
NVTLGVPR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUMA	Unmodified	408250	358830	350860	0	0	0	0	0	0
NVTLPAVFK	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4	HUMAN	Unmodified	10399000	8550100	7862600	224610	194040	190600	14362	16002	0
NVTVQPDDPISFMQLTAK	COPB1	P53618	COPB	HUM	Oxidation (M)	2286400	2580300	2219600	73688	79967	0	0	0	0
NVVLPTETEVAPAK	MAP4; MAP4	P27816; E7EVA0	MAP4	HUM	Unmodified	702230	707980	0	80935	74268	74748	0	0	0
NVVLPTETEVAPAKDVTLLK	MAP4; MAP4	P27816; E7EVA0	MAP4	HUM	Unmodified	3178000	2565300	3485400	51283	0	0	77579	0	0
NVVTVDELR	HDHD5	Q9BXW7	HDHD5	HUM	Unmodified	3769700	3874100	3679500	114860	96437	75710	0	0	0
NVVVDGVR	HADHB; HADHB; H	P55084; C9JEY0;	ECHB	HUM	Unmodified	24225000	36912000	31043000	1036300	996710	1077300	0	0	0
NVVYPLYR	MRPL23; MRPL23; I	Q16540; A8MVT4	RM23	HUM	Unmodified	2790000	0	3047600	351910	329590	286450	42996	32595	37948
NVYDLTSIPVR	FAF1; FAF1	Q9UNN5; B3KT2	FAF1	HUMA	Unmodified	2223700	1858800	1534100	0	16857	0	0	0	0
NWNSPVANFIMESQR	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM	HUM	Oxidation (M)	347070	300750	291260	0	0	0	0	0	0
NWRIVEDEPNK	CSE1L	P55060	XPO2	HUMA	Methyl (KR)	121890	0	0	0	0	0	0	0	0
NYAGAYR	TSTD1; TSTD1	Q8NFU3; B4GNF	TSTD1	HUM	Unmodified	910220	634590	551190	0	30704	29583	0	0	0
NYAGAYREWLEKES	TSTD1; TSTD1	Q8NFU3; B4GNF	TSTD1	HUM	Unmodified	4612100	4339200	4266000	90825	74914	61588	0	0	0
NYAHALDGLYR	SLC25A10; SLC25A1	Q9UBX3; F6RGN	DIC	HUMAN	Unmodified	2698300	1561500	1882900	0	0	0	0	0	0
NYDPALHPFEVPR	DCAF13; DCAF13; I	Q9NV06; B3KME	DCA13	HUM	Unmodified	1610700	1396900	1664000	0	0	18415	0	0	0
NYDPALHPFEVPREYIR	DCAF13; DCAF13; I	Q9NV06; B3KME	DCA13	HUM	Unmodified	1776400	2636800	1646800	0	0	0	0	0	0
NYDSKIPENSEPFVSLKEPRVQNNLK	RSBN1L	Q6PCB5	RSBNL	HUM	2 Methyl (KR);Dea	0	0	45478000	0	0	0	0	0	0
NYDVMKDFEEMR	COX6C	P09669	COX6C	HUM	2 Oxidation (M)	513640	1284600	0	39804	0	0	0	0	0
NYDVMKDFEEMRK	COX6C	P09669	COX6C	HUM	2 Oxidation (M)	2593600	2589200	1765500	75681	67946	0	0	0	0
NYEEIAK	TMED10	P49755	TMEDA	HUM	Unmodified	3189600	3363900	3055100	0	0	0	0	0	0
NYEEIAKVEK	TMED10	P49755	TMEDA	HUM	Unmodified	6818300	7107400	6035800	465750	440130	599980	0	0	0

NYEEIAKVEK	TMED10	P49755	TMEDA_HUM	Methyl (KR)	1399000	896920	1051000	35539	31777	35770	0	0	0
NYELMESEK	ERLIN2; ERLIN2; ER	O94905; E5RHW4	ERLN2_HUM	Oxidation (M)	717080	509570	0	0	0	0	0	0	0
NYGILADATEQVGQHK	API5; API5; API5	Q9BZZ5; E9PQK4	API5_HUMA	Unmodified	3505300	2427900	2627500	0	43302	0	0	0	0
NYHPIVVPGLGR	GTF3C1	Q12789	TF3C1_HUM	Unmodified	814890	649440	1152000	0	0	27099	0	0	0
NYIFLR	RAE1	P78406	RAE1L_HUM	Unmodified	1437900	973600	0	0	0	0	0	0	0
NYILDQTNVYGSAQR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	1686600	1179100	1421900	0	69726	0	0	0	0
NYIVEDGDIIFFK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	Unmodified	4093500	2620500	4577900	0	0	0	0	0	0
NYLAPAWGAPWVINNPAR	BTBD17	A6NE02	BTBDH_HUM	Deamidation (N)	109670	137820	167010	0	0	0	0	0	0
NYLAPAWGAPWVINNPAR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	0	854160	995450	0	0	0	0	0	0
NYLAPAWGAPWVINNPARDDR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	0	1479800	1093300	0	0	0	0	0	0
NYLEGIYNVPVAAVR	MRPL23; MRPL23; I	Q16540; A8MVT4	RM23_HUMA	Unmodified	3355300	3469200	2835200	0	0	0	0	0	0
NYLEPGKECVQPATK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	1243000	1805500	0	53104	54268	47084	14007	0	14283
NYLHYSLYDQAEK	PSMD3	O43242	PSMD3_HUM	Unmodified	935380	1021100	1007800	0	0	0	0	0	0
NYLSQPR	ATP6V1B2; ATP6V1	P21281; E5RGH6	VATB2_HUM	Unmodified	2392600	2569600	2715400	140350	170680	179630	16906	25092	23446
NYMPLAFSDKYGLGTR	DCTN4; DCTN4; DC	Q9UJW0; H9KVE	DCTN4_HUM	Oxidation (M)	593900	0	0	0	0	0	0	0	0
NYPNTFWMNPQYLIK	CAPN2	P17655	CAN2_HUMA	Oxidation (M);Deam	427960	0	304560	0	0	0	0	0	0
NYPNTFWMNPQYLIK	CAPN2	P17655	CAN2_HUMA	Oxidation (M)	991940	437950	825480	0	0	0	0	0	0
NYPPWQHTTLSVLR	LARS1; LARS1; LAR	Q9P2J5; A0A618P	SYLC_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
NYPYSPRWDGNEMAKRAK	BABAM2	Q9NXR7	BABA2_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
NYVTPVNR	GRB2	P62993	GRB2_HUMA	Unmodified	2719500	3924300	3550400	530610	500610	242760	43013	45707	39389
NYVTPVNRNV	GRB2	P62993	GRB2_HUMA	Unmodified	0	0	0	541120	748100	730460	273960	0	0
NYYEQWGK	HNRNPA2B1; HNRN	P22626; A0A71Z	ROA2_HUMA	Unmodified	8260000	8460800	10596000	0	0	0	0	0	0
PAAAAAAATPAVR	PABPC1; PABPC1; F	P11940; A0A087	PABP1_HUM	Unmodified	360410	723700	289510	0	11344	13744	0	0	0
PAANFDAIR	ANXA7	P20073	ANXA7_HUM	Unmodified	0	2217700	2492600	38310	62011	26690	0	0	0
PAAPPAPGPGQLTLR	VAT1; VAT1	Q99536; K7ERT7	VAT1_HUMA	Unmodified	2100800	2205200	3672400	38010	32462	0	0	0	0
PAASITSKPATLTTTSATSK	ZNF207; ZNF207; ZN	O43670; X6R4W8	ZN207_HUM	Unmodified	370830	637410	670750	0	0	0	0	0	0
PAAVVLQTK	GANAB; GANAB; G	Q14697; F5H6X6	GANAB_HUM	Unmodified	0	0	0	0	0	0	0	0	0
PADLDLIQSTPFKPLALK	MFF; MFF; MFF	Q9GZY8; A0A0A	MFF_HUMAN	Unmodified	0	452400	592830	0	0	0	0	0	0
PAEAPTAPSPAQTLENSEPAPVSQLQSR	SEPTIN9; SEPTIN9; !	Q9UHD8; K7EJ51	SEPT9_HUM	Deamidation (N)	3991400	2372700	3036800	0	0	0	0	0	0
PAEPPAWAGGAR	PGAM5	Q96HS1	PGAM5_HUM	Unmodified	1771200	2426300	1968700	0	0	0	0	0	0
PAETLKPMGNAKPAETLKPMGNAK	MYLK	Q15746	MYLK_HUM	Oxidation (M);Meth	1133500	0	0	0	0	0	0	0	0
PAEVGGMQLR	DUT; DUT; DUT; DU	P33316; H0YNJ9	DUT_HUMAN	Oxidation (M)	815850	1393900	0	0	0	0	0	0	0
PAGDTPTSASAPGATTPVELRPR	N/A	N/A	N/A	Unmodified	2772600	1262100	2509400	784400	922540	847440	137270	0	0
PAGPQLFLPDPDPQR	PAXX	Q9BUH6	PAXX_HUMA	Unmodified	0	0	0	86935	86589	71684	0	0	0
PAGPQLFLPDPDPQRGGPGPGVR	PAXX	Q9BUH6	PAXX_HUMA	Unmodified	453200	474780	602270	0	0	0	0	0	0
PAHVVVGDVLQAADVDK	BLVRB; BLVRB; BL	P30043; M0QZL1	BLVRB_HUM	Unmodified	831950	1135200	1249700	0	0	0	14941	0	0
PAIMTMLADHAAR	XPO1; XPO1; XPO1;	O14980; A0A7Z1	XPO1_HUMA	Oxidation (M)	900760	711010	880600	0	0	0	0	0	0
PALELLEPIEQK	GDI2	P50395	GDIB_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
PALLHSTFFPALQGAQTK	WARS1; WARS1	P23381; H0YJP3	SYWC_HUM	Unmodified	1376800	1081000	1257500	0	15159	14604	17611	16053	0
PAMEPGNGSLDLGGDSAGR	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU_HUM	Oxidation (M);Deam	1765500	1825200	1691200	0	0	195130	0	0	0
PAMTTPTRRSTRNTR	SCAF11; SCAF11; SC	Q99590; F8VXG7	SCAFB_HUM	Oxidation (M);3 M	210460	233490	269220	0	0	0	52726	0	0
PAPAVGEAEDKENQQATSGPNQPSVR	YBX3	P16989	YBOX3_HUM	Unmodified	710460	0	550470	0	0	0	0	0	0
PAPGSTAPAAHGVTSAPDTR	MUC1	A0A087WWM1	A0A087WW	Unmodified	619440	923720	664440	0	0	0	0	0	0
PAPSLPTDPALYSGPFPFYR	DXO; DXO	O77932; F8WC68	DXO_HUMA	Unmodified	300340	281230	356650	0	0	0	0	0	0
PAPVAQPPAAAPPSAVGSSAAAPR	CHCHD2; CHCHD2P	Q9Y6H1; Q5T1J5	CHCH2_HUM	Unmodified	1745400	1238900	1362900	0	0	0	0	0	0
PAPVAVAAAATAAAYGGYPTAHTATDYGYTQR	ZFR	Q96KR1	ZFR_HUMAN	Unmodified	1789100	0	0	0	0	0	0	0	0
PAQPQEHPFASSR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	Unmodified	4929800	3997900	5462100	451560	354040	410830	0	0	0
PATEKDLAEDAPWKK	FLNA; FLNA; FLNA;	P21333; A0A71Z	FLNA_HUMA	Unmodified	2190400	2075900	688420	59191	53078	81752	0	0	0
PATLTTTSATSK	ZNF207; ZNF207; ZN	O43670; X6R4W8	ZN207_HUM	Unmodified	1355400	3242400	1316500	0	0	0	0	0	0
PAYHSSLMDPDTK	ARPC3; ARPC3	O15145; C9JZD1	ARPC3_HUM	Oxidation (M)	2060300	1099100	1480700	47300	52936	111340	0	12961	14953
PAYHSSLMDPDTKLIGNMALLPIR	ARPC3; ARPC3	O15145; C9JZD1	ARPC3_HUM	2 Oxidation (M)	3841400	2157100	2544000	0	0	0	0	0	0
PAYHSSLMDPDTKLIGNMALLPIR	ARPC3; ARPC3	O15145; C9JZD1	ARPC3_HUM	2 Oxidation (M);De	1056200	1108500	754560	0	0	0	0	0	0
PDFDGPREKMQKLGEGEGSMTK	SNX5; SNX5; SNX5	Q9Y5X3; Q5QPE4	SNX5_HUMA	2 Oxidation (M);2 I	393250	1188700	1062500	2711300	2797600	3131600	0	3080700	1392200
PDMNYETMGRALR	ELF4; ELF2; ELF1; E	Q99607; Q15723;	ELF4_HUMA	Oxidation (M)	10737000	0	0	0	0	0	0	0	0
PDNNDGSKLNSNSGAGR	UBR5; UBR5	O95071; E7EMW	UBR5_HUMA	Methyl (KR);3 Dea	0	0	0	0	63940	68784	0	0	0
PDPAKSAPAPK	H2BC9; H2BC17; H2	Q93079; P23527;	H2B1H_HUM	Unmodified	0	0	0	2340300	2878200	11355	0	0	0
PDPAKSAPAPK	H2BC9; H2BC17; H2	Q93079; P23527;	H2B1H_HUM	Acetyl (Protein N-t	1437700	1298400	0	767420	1463500	667300	57683	0	45014
PDPSKSAPAPK	H2BU1	Q8N257	H2B3B_HUM	Acetyl (Protein N-t	538950	991860	816970	508980	452710	489330	45118	39288	25195
PDSAPAMADKMDMSLDDIIKLNRSQR	ALYREF	E9PB61	E9PB61_HUN	3 Oxidation (M)	0	0	1651800	0	0	0	0	0	0
PDSGNPLDTVLK	NAMPT; NAMPT; N	P43490; A0A0C4I	NAMPT_HUM	Unmodified	3530700	1574800	1587600	53528	22936	33121	0	0	0
PDTLGSSK	SLC25A10	F6RGN5	F6RGN5_HUM	Unmodified	6819700	279320	5586400	0	3631700	0	0	0	0
PEDYEAALNAALADVPELARLLEIDPYLK	GBE1	Q04446	GLGB_HUMA	Methyl (KR)	1453700	0	0	288300	0	0	0	0	0
PEFLEDPSVLTK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B_HUM	Unmodified	18544000	16058000	15174000	427350	249770	219240	59124	65297	0
PEFLEDPSVLTKDK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B_HUM	Unmodified	4653600	3762200	3717400	47032	52864	44093	0	0	0
PEFLEDPSVLTKDK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B_HUM	Methyl (KR)	1359700	1069200	1704700	0	0	14289	0	0	0
PEFLEDPSVLTKDKLK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B_HUM	Unmodified	5695200	5874900	5646600	83798	69550	21740	0	0	0
PEIVDTCSLASPASVCR	LTA4H; LTA4H	P09960; B4DEH5	LKHA4_HUM	Unmodified	202840	230550	0	179720	115790	132980	16774	0	14280
PEPAKSAPAPK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Unmodified	5222100	2454000	2009000	17021000	25694000	14074000	1533000	768060	1070400
PEPAKSAPAPK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Methyl (KR)	4164500	5119100	4096900	0	1095400	2823000	0	0	380600
PEPAKSAPAPK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Acetyl (Protein N-t	0	0	0	0	0	5494200	0	0	0
PEPSKSAPAPK	H2BC3; H2BC15; H2	P33778; Q99877;	H2B1B_HUM	Unmodified	638600	654210	976120	21268	22633	0	0	46331	0
PEPTKSAPAPK	H2BC5	P58876	H2B1D_HUM	Unmodified	873530	1355400	751030	3208600	4668000	3285700	209470	0	614410
PEVYRLINEEAMVMNYALLGNRK	CCDC180; CCDC180	Q9P1Z9; A0A6E1	CC180_HUM	2 Oxidation (M);M	514400	75374	317230	0	0	0	0	0	0
PEWMMIHRILNHSFDK	CHD5; CHD5	Q8TDI0; F2Z2R5	CHD5_HUMA	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
PFLAILGGAK	PGK1; PGK2	P00558; P07205	PGK1_HUMA	Unmodified	799180	1254400	951490	0	0	0	0	0	0
PFLELDTNLPANRVPAGLEK	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD_HUM	Unmodified	3746300	1619500	1755700	0	0	0	0	0	0
PFLELDTNLPANRVPAGLEK	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD_HUM	Deamidation (N)	0	462600	0	0	0	0	0	0	0
PFLELDTNLPANRVPAGLEK	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD_HUM	2 Deamidation (N)	0	0	684610	0	0	0	0	0	0
PFPDGLAEDIDKGEVSAR	EEF2	P13639	EF2_HUMAN	Unmodified	6316800	3047300	3424300	0	0	0	0	0	0
PFRLDLLEDR	GANAB; GANAB; G	Q14697; F5H6X6	GANAB_HUM	Unmodified	2701300	2679600	1972000	0	6811.2	0	0	0	0
PFSNSHNALK	CKB; CKB; CKB	P12277; G3V4N7	KCRB_HUM	2 Deamidation (N)	1096200	591740	770450	0	0	0	0	0	0
PFSNSHNALK	CKB; CKB; CKB	P12277; G3V4N7	KCRB_HUM	Deamidation (N)	1105700	1010300	957450	97783	74426	84184	0	0	0
PFSNSHNALKLR	CKB; CKB; CKB	P12277; G3V4N7	KCRB_HUM	2 Deamidation (N)	654160	440330	503460	0	0	0	0	0	0
PFVPNVHAAEFVPSFLR	GSPT2	Q8IYD1	ERF3B_HUM	Unmodified	224270	224220	225950	0	0	0	0	0	0
PGAPAAGDGK	HNRNPU; HNRNPU	Q00839; A0A1W2	HNRPU_HUM	Unmodified	403590	99873	200220	142380	97494	22988	71031	0	53871
PGETEEPRPPEQQDQEGGEAAK	ZFP91; ZFP91-CNTF	Q96JP5; A0A0A6	ZFP91_HUM	Unmodified	1164700	0	2350300	0	0	0	0	0	0
PGFTSLPGSTMTPPPSGPNPYAR	TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	Oxidation (M)	660410	1162900	421600	0	0	0	0	0	0
PGGDTIFGK	HINT1; HINT1; HINT	P49773; H0YC49	HINT1_HUM	Unmodified	0	2265500	2247600	31073	23404	23888	0	0	0
PGGLLLGDVAPNFEANTTVGR	PRDX6	P30041	PRDX6_HUM	Unmodified	2769600	1885300	8804200	168740	0	112240	0	90827	91135
PGGLLLGDVAPNFEANTTVGR	PRDX6	P30041	PRDX6_HUM	Deamidation (N)	6247200	5907900	8630000	32219	22125	7674	24782	0	0
PGGLLLGDVAPNFEANTTVGR	PRDX6	P30041	PRDX6_HUM	2 Deamidation (N)	7562100	2826100	2424500	0	0	0	14903	0	0
PGIDKLPIEETLEDSPQTR	APPL1; APPL1	Q9UKG1; C9K0C	DP13A_HUM	Unmodified	1924400	1981700	2477600	167580	135900	84822	157610	56053	115840
PGIVELPTLEELKVDEVK	NDUFA8	P51970	NDUA8_HUM	Unmodified	2402500	1701300	2180000	0	0	0	0	0	0
PGMEQGRLQMWVDMFPK	FER1L6	Q2WGJ9	FR1L6_HUM	2 Oxidation (M)	0	0	0	0	0	0	1906100	0	1902200
PGMVVTFAPVNVTTEVK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104	EF1A3_HUM	Oxidation (M)	0	620370	574730	171930	187170	0	195010	0	67279
PGPALWPLPLSVK	HEXB	P07686	HEXB_HUM	Unmodified	0	0	257100	0	0	0	0	0	0
PGPGVWDPNWDRR	PGAM5	Q96HS1	PGAM5_HUM	Unmodified	1626900	1189900	0	0	0	0	0	0	0
PGPIGPAGAR	COL1A2; COL1A2	P08123; A0A087	CO1A2_HUM	Unmodified	1414300	1169700	1711000	680410	629900	655400	0	417650	0
PGPTPSGTNVGSSGR	SEC61B	P60468	SC61B_HUM	Unmodified	1869600	1316400	2073600	189820	184690	212810	50703	0	0
PGSGGRKNGGMGTK	DRAP1; DRAP1; DR	Q14919; E9PMW	NC2A_HUMA	Oxidation (M);2 M	0	0	0	93260	0	0	1729500	1742900	2686800
PGSPGDAEDRR	TRPM5; TRPM5; TR	Q9NZQ8; A0A0C	TRPM5_HUM	2 Methyl (KR)	0	27217	0	1495900	1710400	1933200	329680	940620	441670
PGSTGTWNPGSSER	FGA	P02671	FIBA_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
PGVTVKDVNQQEFVR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19_HUMA	Unmodified	2094400	2397300	2367600	40080	37196	30125	0	0	0
PGVTVKDVNQQEFVR	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19_HUMA	Deamidation (N)	0	882040	967110	0	0	0	0	0	0
PHAFKPGDLVFAK	HDGFL2; HDGFL2	Q7Z4V5; M0R0J3	HDGR2_HUM	Unmodified	914430	720000	1240100	33343	0	0	0	0	0
PHVFMPEVTPDMDYLPR	PRG4	Q92954	PRG4_HUMA	Oxidation (M)	534030	462310	576330	68081	42770	57439	0	0	0
PIEVEHSVPK	IGF2BP3; IGF2BP3	O00425; F8WD15	IF2B3_HUMA	Unmodified	2546200	2659700	3018900	4347900	3972100	0	0	0	0
PIQLKIQDEK	RASSF6	Q6ZTQ3	RASF6_HUM	Methyl (KR)	0	2218000	0	0	0	0	0	0	0
PKKEEAAARGPEDPR	ZNF598; ZNF598; ZN	Q86UK7; H3BQQ	ZN598_HUM	Unmodified	2772800	1646900	2052100	2213900	1527500	1353600	1571800	0	1664500
PKLPEDPLLSGLLDSPALK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	90661	45765	89139	0	0	0	0	0	0
PLAKDLLHPSPEEEKRK	RPS27	P42677	RS27_HUMA	Unmodified	719770	551770	798780	0	0	50953	0	0	0
PLDDRERKR	C1orf198	Q9H425	CA198_HUM	Methyl (KR)	0	1266600	0	0	0	0	0	0	0
PLELELCPGR	NANS	Q9NR45	SIAS_HUMA	Unmodified	1706800	0	0	212790	358620	234280	41700	32919	49611
PLELSDFR	TMPO; TMPO; TMPO	P42167; G5E972	LAP2B_HUM	Unmodified	4882600	6644300	5007900	21403	0	50559	0	0	0
PLENLEEEGLPK	PSMD6; PSMD6	Q15008; C9J7B7	PSMD6_HUM	Unmodified	893570	912990	996500	43411	53040	60862	0	0	0
PLENLEEEGLPKNPDLR	PSMD6; PSMD6	Q15008; C9J7B7	PSMD6_HUM	Unmodified	6516800	4142700	5183700	367590	307790	223020	48276	32907	0
PLENLEEEGLPKNPDLR	PSMD6; PSMD6	Q15008; C9J7B7	PSMD6_HUM	Deamidation (N)	669560	954020	945940	49262	40208	23887	0	0	0
PLEQGDETPKPPKPDPLK	PRRC2A	P48634	PRC2A_HUM	Unmodified	3741300	4321800	0	22805	269230	293890	0	0	0
PLESSQVK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	Unmodified	667800	696860	1043700	0	0	0	0	0	0
PLFATNPFDQDVEK	STAM; STAM	Q92783; C9J1E5	STAM1_HUM	Unmodified	716810	547960	456640	0	0	13494	0	0	0
PLFLEFPK	GAA	P10253	LYAG_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
PLISVYSEK	RPL4; RPL4; RPL4	P36578; H3BU31	RL4_HUMAN	Unmodified	3764600	3207600	3071800	64799	0	60177	14417	0	0
PLLVPDEGPTALEPPTSIPSASR	KIAA1217	Q5T5P2	SKT_HUMAN	Unmodified	380510	628790	487840	0	0	0	0	0	0
PLMAEPR	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2_HUM	Oxidation (M)	1013100	887010	734000	0	0	0	0	0	5260.9
PLPEPSEQEGESVK	FLYWCH1; FLYWCI	Q4VC44; Q96CP2	FWCH1_HUM	Unmodified	638450	786380	524710	102510	56622	0	0	0	0
PLPLSYR	MOGS; ABHD11; AB	Q13724; Q8NFV4	MOGS_HUM	Unmodified	316770	332790	334380	16279	98364	13272	0	0	0
PLPVALQTR	PQBP1; PQBP1	O60828; A0A5H1	PQBP1_HUM	Unmodified	5255000	6664400	5344000	170300	212260	200870	0	23727	23806
PLPVPPELAPFVGR	BAIAP2; BAIAP2; B	Q9UQB8; I3L4C2	BAIP2_HUM	Unmodified	241020	220190	296940	0	0	0	0	0	0
PLSPLHSLTPYQVPFNAVALR	NOL9	Q5SY16	NOL9_HUMA	Unmodified	639640	546260	298250	0	0	0	0	0	0
PLVLPSPLVTPGSNSQER	PPP1R10	Q96QC0	PP1RA_HUM	Deamidation (N)	1160800	0	1180800	13499	0	0	0	0	0
PLYHYGRGMNPADK	MINK1; MINK1	Q8N4C8; A0A590	MINK1_HUM	Methyl (KR)	1111700	1315600	1219100	24208	22934	26610	0	0	0
PLYKNVVLSGGSTMFRDFGR	ACTR3B	Q9P1U1	ARP3B_HUM	Unmodified	5347700	5705200	3819200	0	0	0	0	0	0

PLYSVTVK	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	2533900	1553400	2259100	82453	65685	61982	0	0	0
PMFIVNTNVPR	MIF	P14174	MIF	HUMAN	Oxidation (M);Deam	65634000	56333000	57136000	2938900	3129900	2712500	733080	770020	703030
PMFIVNTNVPR	MIF	P14174	MIF	HUMAN	Oxidation (M)	38216000	31528000	37672000	4302600	4439500	4019800	1108700	953230	837230
PMHRECGFIRLKPDTNK	THAP4; THAP4	Q8WY91; B5MC9	THAP4	HUM	Oxidation (M);3 M	14279000	12169000	14797000	5949600	4044800	4682000	13941000	16118000	14041000
PMQMNQALFMTGR	PLCG1; PLCG1	P19174; V9GY63	PLCG1	HUM	2 Oxidation (M);De	623150	496480	596920	0	0	147790	0	0	0
PNFAGTWK	CRABP1	P29762	RABP1	HUM	Deamidation (N)	5570000	4864000	4327700	0	0	0	0	0	0
PNFAGTWK	CRABP1	P29762	RABP1	HUM	Unmodified	1771500	1932100	2511000	0	0	0	0	0	0
PNIVLFSGSSHQDLSQR	PRPS2; PRPS2; PRPS	P11908; D3YTJ7;	PRPS2	HUM	Unmodified	5646800	4930200	5179100	0	0	0	0	0	0
PNNNPGGSLRRSQRNTAGAQPQDDSIGGR	TRIP12; TRIP12; TRI	Q14669; C9JLD7;	TRIP12	HUM	3 Deamidation (N)	0	0	0	1377300	1441500	0	0	0	0
PNVIVVQK	EMSY; EMSY	Q7Z589; E9PMC9	EMSY	HUM	Unmodified	1021500	1168400	925260	0	0	0	0	0	0
PPNSAQMYNFTSFTVSLNELETGMEK	OSBPL2; OSBPL2; O	Q9H1P3; A0A2R8	OSBL2	HUM	2 Oxidation (M);M	0	0	1542800	1710400	1721400	0	0	0	2122300
PPPQGDVTALFLGPPGLGK	IRGQ; IRGQ	Q8WZA9; M0QZI	IRGQ	HUM	Unmodified	3876300	3085600	3788700	0	0	21276	0	0	0
PQAPATVGLAFR	ELOB; ELOB; ELOB	Q15370; B8ZZU8	ELOB	HUM	Unmodified	2150200	2112800	1553600	21175	24315	13629	0	0	0
PQTTLEQLQK	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUM	Unmodified	440560	662600	212480	0	0	0	0	0	0
PQTVILPGPAPWGFR	PDLIM3; PDLIM3; P	Q53GG5; D6RAF	PDLI3	HUM	Unmodified	292450	210640	287390	0	0	0	0	12216	0
PQYQTWEEFSR	SRP9; SRP9; SRP9; S	P49458; Q659G3;	SRP09	HUM	Unmodified	6863200	6382700	6597600	91160	106660	76559	0	0	0
PRNVQILNMVTR	TIMM23	O14925	TIM23	HUM	Oxidation (M);Deam	0	0	604250	0	0	0	0	0	0
PRPDPSPEIEGDLQPATHGSR	NDUFA8	P51970	NDUA8	HUM	Unmodified	0	0	2741300	0	65004	0	0	0	0
PSAAGINLMIGSTR	DHX9	Q08211	DHX9	HUM	Oxidation (M)	2467300	0	0	0	0	0	0	0	0
PSDAASEAAR	EIF4G1; EIF4G1; EIF	Q04637; H7C044;	IF4G1	HUM	Unmodified	0	1754400	2168900	0	0	0	0	0	0
PSDTIENVK	UBA52; RPS27A; UB	P62987; P62979;	RL40	HUM	Unmodified	64130	0	953430	0	0	8051	0	0	0
PSENLGQVLFGER	TM9SF2	Q99805	TM9S2	HUM	Unmodified	239270	181600	175460	0	0	0	0	0	0
PSETPQAEVGPTGCPHR	CBS; CBSL; CBS	P35520; P0DN79;	CBS	HUM	Unmodified	1174200	1211500	0	0	40295	0	0	0	0
PSGEEVLQDIQVMLK	MCM5; MCM5	P33992; B1AHA9	MCM5	HUM	Oxidation (M)	1321900	317050	0	0	0	0	0	0	0
PSGLLAQER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	0	0	1760300	0	67946	72457	0	0	0
PSHFLNFALLQEGEVYSADR	PRPF8	Q6P2Q9	PRP8	HUM	Unmodified	1315800	1168300	1119300	1391200	1119100	1407100	935250	926450	517760
PSISSSNLNPREVMEAVR	PSG6; PSG6; PSG6	Q00889; M0QZA7	PSG6	HUM	2 Methyl (KR);2 D	952610	0	380720	0	0	0	0	0	0
PSKGPLQSVQVFGR	RPS16; RPS16; RPS1	P62249; M0R210;	RS16	HUM	Unmodified	0	464650	0	85405	84890	62454	0	0	0
PSQMEHAMETMMFTFHK	S100A10	P60903	S10AA	HUM	4 Oxidation (M)	975360	0	2025100	485650	0	642190	134360	122560	0
PSQVVAETR	EEF2	P13639	EF2	HUMAN	Unmodified	1989000	4278400	6395700	38044	93774	0	0	0	0
PSSEVIKDANLYISGLPR	ELAVL1; ELAVL1; E	Q15717; M0R055	ELAV1	HUM	Unmodified	515120	528410	238470	0	0	0	0	0	0
PSSPGGLPEEDSVLFNKLTYLGCMK	RABGAP1L; RABGA	Q5R372; A0A0C4	RBG1L	HUM	2 Methyl (KR);Dea	0	0	4334200	0	0	0	0	0	0
PSTDLLMLK	SGPL1	O95470	SGPL1	HUM	Oxidation (M)	1532600	1170200	2581200	106830	20260	111590	0	0	0
PSVYIPEFIAANQSAR	lSYNA1	Q9NPH2	INO1	HUMA	Deamidation (N)	1860400	1406500	1247800	0	0	0	0	0	0
PSYGNVVELRINSGGK	G3BP1	A0A7I2V565	A0A7I2V565	HUM	Unmodified	3292700	3147900	2443400	50486	37910	51044	0	24197	0
PSYQEEAVTK	TPP1; TPP1; TPP1; T	O14773; A0A2R8	TPP1	HUMA	Unmodified	2019600	0	0	0	0	0	0	0	0
PTPQMVEYIELTPK	C2orf16; C2orf16	Q68DN1; C9JG08	CB016	HUM	Oxidation (M)	7305000	5377000	5729600	2695800	2253600	2652100	28064	0	27971
PTSEEITMIADQLNMEK	POU2F1; POU2F1; P	P14859; A0A0C4I	PO2F1	HUM	Oxidation (M);Deam	0	0	0	0	0	0	46284	204810	232230
PTTIEREFEELDTQR	PTPN2; PTPN2; PTP	P17706; K7ER87;	PTN2	HUM	Unmodified	304560	297160	312340	0	0	0	0	0	0
PTTQQSPQDEQEKLLDEAIQAVK	VPS35; VPS35; VPS	Q96QK1; A0A1W	VPS35	HUM	Unmodified	3971600	2884600	4652200	0	0	0	0	0	0
PTVEELYR	API5; API5; API5	Q9BZZ5; E9PQK	API5	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
PVAMVMPARR	PLEC	Q15149	PLEC	HUMA	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
PVAVALDTK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	1925000	1329800	1177400	0	0	0	0	0	6041.5
PVDFTGYWK	RBP1; RBP1; RBP1;	P09455; A0A0A0	RET1	HUMA	Unmodified	0	2283900	0	0	0	0	0	0	0
PVFIYKHSQDIEK	PTPRR	Q15256	PTPRR	HUM	Methyl (KR)	7147800	6231900	5097500	304490	230020	250880	0	0	0
PVILLPEDTPPFLELK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUMA	Unmodified	1017200	372900	717850	0	0	0	0	0	0
PVIVEPLEQLDDEDGLPEK	SFPQ	P23246	SFPQ	HUMA	Unmodified	14485000	12002000	15552000	33572	10238	0	38514	0	0
PVLNFYEANFPANVMDVIAR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	Oxidation (M)	475890	318670	264760	0	0	0	0	0	0
PVQDLIK	PARP1	P09874	PARP1	HUM	Unmodified	3222700	2254900	2557300	0	0	0	0	0	0
PVSSAASVYAGAGGSGSR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	6829400	5334100	3483100	1510300	1409300	1571500	115660	357820	120510
PVTVEPMDQLDDEEGLPEK	NONO; NONO; NON	Q15233; A0A7I2V	NONO	HUM	Oxidation (M)	6116200	3321000	2057400	0	28210	0	0	0	0
PYQYPALTPEQK	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Unmodified	9460700	10617000	10426000	95942	103770	108130	0	0	0
PYQYPALTPEQKK	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Unmodified	10577000	11044000	11803000	163200	118670	156920	27878	20856	0
PYQYPALTPEQKK	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Methyl (KR)	932180	1398300	1632800	0	0	0	0	0	0
PYQYPALTPEQKKELSDIAHR	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Unmodified	15891000	14845000	19151000	43779	0	0	0	0	0
PYQYPALTPEQKKELSDIAHR	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Methyl (KR)	0	1115800	1301700	0	0	0	0	0	0
PYQYPALTPEQKKELSDIAHRIVAPGK	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Unmodified	1872400	1652600	1605000	0	0	0	0	0	0
QAAAHTDHLRDVLR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	2838400	2244400	3236900	112060	124300	127120	0	0	0
QAAASATQTIAAAQHAASTPK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	1687100	1354300	2025400	0	47333	0	0	0	0
QAADFAEQFR	CDKN2AIPNL	Q96HQ2	C2AIL	HUM	Unmodified	4561900	4629900	4868200	0	0	0	0	0	0
QAAGGLRAELLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	0	833980	1329500	0	0	22281	0	0	0
QAALQVAEGFISR	CAPG; CAPG	P40121; H7C0X8	CAPG	HUM	Unmodified	7239000	6243300	8299000	58476	46347	0	44936	40102	0
QAANLQDCYR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	506840	602200	609360	0	0	0	0	0	0
QAAPCVLFFDELDSIAK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	3358200	1549400	3122600	0	0	0	0	0	0
QAASGLVGQENAR	RUVBL1	Q9Y265	RUVB1	HUM	Unmodified	1130000	1312000	1321700	0	0	0	0	0	0
QAASSLQQASLK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75	HUM	Unmodified	9109600	8158500	11974000	48279	41224	65647	0	0	0
QAASSLQQASLKLFEMAYK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75	HUM	Oxidation (M)	1939300	842880	789110	0	0	0	0	0	0
QAASSLQQASLKLFEMAYKK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75	HUM	Oxidation (M)	2575500	2366700	1871900	0	0	0	0	0	0
QAATMSEVEWR	SRP68	Q9UHB9	SRP68	HUM	Oxidation (M)	638130	1314000	581080	36356	0	0	0	0	0
QADFEAHNILR	GMPS	P49915	GUAA	HUM	Unmodified	11215000	10915000	15859000	0	222310	0	0	0	0
QADFVQTPITGIFGGHIR	USP10; USP10	Q14694; H3BNA1	UBP10	HUM	Unmodified	3024900	3063600	4527900	0	0	0	0	0	0
QADLYISEGLHPR	CCT6A; CCT6B	P40227; Q92526	TCPZ	HUMA	Unmodified	6143500	5391800	5516300	0	0	0	0	0	0
QADNPHVALYQAR	HYOU1; HYOU1; H	Q9Y4L1; J3QL06;	HYOU1	HUM	Unmodified	0	0	622110	74860	0	0	0	0	0
QADSDIPLDR	MRPL58; MRPL58	Q14197; J3KS15	ICT1	HUMA	Unmodified	767500	764750	643140	37637	33433	36948	0	0	0
QADYVPSDQDLLR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	Unmodified	0	0	958550	49988	66231	0	0	0	0
QAEEEKMALPELVR	USP5	P45974	UBP5	HUMA	Oxidation (M)	2732000	2745800	2814000	147740	193600	0	0	0	0
QAEELNEKLTPLK	RECQL	P46063	RECQ1	HUM	Deamidation (N)	342230	482300	498680	0	0	0	0	0	0
QAEEQIEHLQR	RNF40; RNF40	O75150; H3BP71	BRE1B	HUM	Unmodified	2428900	1434600	1133600	0	0	0	0	0	0
QAEETAAFEEVMKDLSLTR	CRTC1	Q6UUV9	CRTC1	HUM	Oxidation (M)	1369600	0	1069400	0	0	0	0	0	0
QAEGGERGGGPAGAGGEAPAALR	EXOSC6	Q5RKV6	EXOS6	HUM	Unmodified	1005100	1093400	1208900	0	0	0	0	0	0
QAEILQESR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA	HUM	Unmodified	7922300	8018700	9063300	293750	357050	343130	0	0	0
QAELAQWQK	COA3; COA3	Q9Y2R0; K7EPV0	COA3	HUM	Unmodified	0	0	1552900	0	0	0	0	12751	0
QAELEEGRPQHQEQLR	GOLIM4; GOLIM4	O00461; F8W785	GOLI4	HUM	Unmodified	1382400	1301300	1423300	201910	159240	62052	0	0	0
QAELTVQVK	PVR; PVR; PVR	P15151; A0A0C4I	PVR	HUMA	Unmodified	0	388290	350140	20952	18716	0	0	0	0
QAEMEGAVQSIQGELSK	CAVIN1	Q6NZI2	CAVN1	HUM	Oxidation (M)	0	0	0	92993	150720	110050	0	0	0
QAEMLDDLMEK	AK2; AK2; AK2; AK	P54819; F8VZG5;	KAD2	HUMA	2 Oxidation (M)	6125500	6312800	6972600	122460	0	120090	0	0	0
QAENGMYIR	CAD; CAD; CAD	P27708; F8VPD4;	PYR1	HUMA	Oxidation (M);Deam	918380	1212800	752370	0	0	0	0	0	0
QAEPADMRPEIWIAQELR	BCL2L11	O43521	B2L11	HUM	Oxidation (M)	370600	389690	0	0	0	0	0	0	0
QAEPELDLR	CAST; CAST; CAST;	P20810; A0A6Q8I	ICAL	HUM	Unmodified	2636300	1954800	2281800	806350	0	926910	0	0	0
QAESLSLTR	PCM1; PCM1; PCM1	Q15154; E7EV93;	PCM1	HUM	Unmodified	1395600	1648100	1472200	0	184200	223890	0	0	0
QAESSEAPLVQK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1592600	1495700	993030	0	24563	0	0	0	0
QAEVANQETK	HMGN1; HMGN1; H	P05114; A6NL93;	HMGN1	HUM	Unmodified	373380	436890	393950	85072	45924	44689	0	0	0
QAEVANQETKEDLPAENGETK	HMGN1; HMGN1; H	P05114; A6NL93;	HMGN1	HUM	Deamidation (N)	1966200	2007100	0	0	126980	0	0	0	0
QAEVANQETKEDLPAENGETK	HMGN1; HMGN1; H	P05114; A6NL93;	HMGN1	HUM	2 Deamidation (N)	1375600	1607600	1526700	0	0	0	0	0	0
QAEVANQETKEDLPAENGETKTEESPASDEAGEKEAK	HMGN1; HMGN1; H	P05114; A6NL93;	HMGN1	HUM	Deamidation (N)	3334400	3034100	3445400	0	0	0	0	0	0
QAEVANQETKEDLPAENGETKTEESPASDEAGEKEAK	HMGN1; HMGN1; H	P05114; A6NL93;	HMGN1	HUM	2 Deamidation (N)	1897100	1456700	1677300	0	0	0	0	0	0
QAEVELASR	PLEC	Q15149	PLEC	HUMA	Unmodified	3460700	3231800	3723100	1632900	1267400	684020	0	0	0
QAEVLAEFER	PRPF4	O43172	PRP4	HUMA	Unmodified	2487000	0	1300500	0	53562	82185	0	0	16049
QAEVTFVGHPGNLVIK	NID1	P14543	NID1	HUMA	Unmodified	2341800	2168800	2144800	14915	0	11438	0	0	0
QAFAPFGPIK	PUF60; PUF60; PUF6	Q9UHX1; E9PMU	PUF60	HUM	Unmodified	9095700	9155500	9528100	125300	120510	120480	0	0	9006.9
QAFPNTNR	EEF1G	P26641	EF1G	HUMA	Unmodified	2772100	629680	2110300	0	0	0	0	0	0
QAFQIGSPWR	ALDH1A1; ALDH1A	P00352; Q5SYQ8;	AL1A1	HUM	Unmodified	7754700	1888300	6463400	25305	0	22306	40733	41713	0
QAFTPSSTMMEVFLQEK	UBAP2L; UBAP2L	Q14157; F8W726	UBP2L	HUM	2 Oxidation (M)	1654700	2278100	13332000	163260	176150	193560	23645	0	0
QAGAEALSQAVAR	GCN1	Q92616	GCN1	HUM	Unmodified	2271500	2457700	2123200	0	0	0	0	0	0
QAGEVTFADAHRPK	SRSF5	Q13243	SRSF5	HUM	Unmodified	2758500	2695700	2356400	0	0	14049	0	0	0
QAGEVTYADAHK	SRSF6; SRSF4; SRSF	Q13247; Q08170;	SRSF6	HUM	Unmodified	4088500	3767000	5100200	200400	186380	351770	0	0	0
QAGEVTYADAHKER	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Unmodified	4232600	6934300	5703000	0	0	0	0	0	0
QAGEVTYADAHKERTNEGVIEFR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Deamidation (N)	655000	736130	830670	63170	0	0	0	0	0
QAGGFLGPPPPSGK	TMCO1; TMCO1	Q9UM00; J3QQY	TMCO1	HUM	Unmodified	1444500	0	0	45342	75671	67780	0	0	0
QAGLLTTDPR	MRPS9	P82933	RT09	HUMA	Unmodified	3675100	4660600	5711800	102380	146890	21154	21815	27900	15587
QAGLQVWR	SCIN; SCIN; SCIN	Q9Y6U3; C9JGB6	ADSV	HUMA	Unmodified	4834400	3670300	3631600	0	0	0	0	0	0
QAGLSYIR	ATP5F1EP2; ATP5F1	Q5VTU8; P56381	AT5EL	HUM	Unmodified	8008100	5984700	6570700	525440	493280	603220	92618	76883	67071
QAGPAPAAATAASK	DIDO1	Q9BTC0	DIDO1	HUM	Unmodified	774960	1031100	666650	38385	51428	35546	0	0	0
QAGPASVPLR	PDIA3	P30101	PDIA3	HUM	Unmodified	13813000	11096000	12590000	278670	233570	258790	0	0	0
QAGPASVPLRTEEEFK	PDIA3	P30101	PDIA3	HUM	Unmodified	6507400	7101400	9153000	167160	170820	118540	0	0	0
QAGPASVPLRTEEEFKK	PDIA3	P30101	PDIA3	HUM	Unmodified	78853000	113310000	63165000	1125400	944240	1020700	55425	44796	72324
QAGVFEPTIVK	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA	HUM	Unmodified	1042200	838730	960940	0	0	0	0	0	0
QAGVIYLK	IPO7	O95373	IPO7	HUMA	Unmodified	714120	0	817860	0	0	0	0	0	0
QAHLTNQYMQR	PABPC1; PABPC1; P	P11940; A0A087	PABP1	HUM	Oxidation (M)	23807000	18285000	25323000	295280	116010	1284200	0	0	0
QAHLTNQYMQR	PABPC1; PABPC1; P	P11940; A0A087	PABP1	HUM	Oxidation (M);Deam	8358400	8360300	9949500	286500	192410	366780	0	0	0
QAIGIALETR	PSMD1; PSMD1; PSI	Q99460; C9J9M4;	PSMD1	HUM	Unmodified	938140	1406900	1377300	31050	0	0	0	0	0
QAIGLMGYR	GCA; GCA; GCA	P28676; H7C2Z6;	GRAN	HUM	Oxidation (M)	0	2103800	1994300	0	0	0	0	0	0
QAIKELPQFATGENLPR	API5; API5	Q9BZZ5; G3V1C	API5	HUMA	Unmodified	2131700	4970400	1851800	25361	24245	20817	0	0	0
QAILAAQR	EDF1	O60869	EDF1	HUM	Unmodified	6347100	6699900	6113800	538060	488090	517430	37947	0	0
QAILGEHPSSFR	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL	HUM	Unmodified	1642000	1927000	1445100	54590	72724	79181	0	0	0
QAIPIGLQNR	DDX23; DDX23	Q9BUQ8; H0YI52	DDX23	HUM	Unmodified	0	663460	812220	30825	23220	30527	0	0	0
QAIQASIK	GALNT7; GALNT7	Q86SF2; E9PBY3	GALT7	HUM	Unmodified	478730	348360	379930	0	16258	0	0	0	0
QAITQVVVSR	SFXN1	Q9H9B4	SFXN1	HUM	Unmodified	4250100	3264600	3380300	0	0	0	0	0	0
QAIVNASR	CPNE3	O75131	CPNE3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
QALDSEEEEEDVAAKETLLR	RETREG2; RETREG	Q8NC44; H7C3D5	RETR2	HUM	Unmodified	1212200	1038000	1212600	30062	0	0	0	0	0
QALEDLEK	KLC1; KLC2; KLC1;	Q07866; Q9H0B6	KLC1	HUMA	Unmodified	1079300	0	123750	0	0	0	0	0	0
QALEQAR	MRPS26	Q9BYN8	RT26	HUMA	Unmodified	3368800	0	0	0	0	0	0	0	0

QALMPVILQDAPSAPGHAPHR	PRKD2	Q9BZL6	KPCD2_HUM	Oxidation (M)	0	0	962730	0	35189	53922	0	0	0
QALQDTLALYK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	958280	743460	1697500	15506	0	0	0	0	0
QALQSTPLGSSSK	SEC16A; SEC16A	O15027; F1T0I	SC16A_HUM	Unmodified	1042100	1368000	1311400	493250	459030	348970	0	68676	47215
QALSGFGYR	PDCD6; PDCD6	O75340; A0A024	PDCD6_HUM	Unmodified	3607100	3105200	3211300	0	0	0	0	0	0
QAMGVYITNFHVR	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2_HUM	Oxidation (M)	855870	1172100	810370	46797	48060	36125	0	0	0
QANTGLFNLR	THOP1; THOP1; THO	P52888; K7EL32;	THOP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
QANVQIQEIQR	L1RE1	Q9UN81	LORF1_HUM	Unmodified	2533200	1892900	2163700	138930	198450	151820	0	0	0
QAPAPTVIRDPPSITPAVK	CHAF1B	Q13112	CAF1B_HUM	Unmodified	3665400	3755100	3884600	59486	54433	54147	0	0	0
QAPIPAELR	CLIC3	O95833	CLIC3_HUM	Unmodified	1206800	706510	0	0	0	0	0	0	0
QAPQPQSSLQR	GATAD2B; GATAD2	Q8WXI9; A0A0U1	P66B_HUM	Unmodified	2376800	2425900	2495300	0	202120	0	0	0	0
QAPQTIHLPSGEILDVFDAAER	ACO1	P21399	ACOC_HUM	Unmodified	1980400	1641600	3592800	0	0	0	0	0	0
QAQAAVLAVLPR	EBNA1BP2; EBNA1I	O99848; H7C2Q8	EBP2_HUM	Unmodified	1140400	787960	918070	0	0	0	0	0	0
QAQEYEALLNIK	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	16539000	20376000	17558000	352310	339880	479780	23289	21727	15976
QAQIEVVPSASALIIK	RPL12	P30050	RL12_HUM	Unmodified	7350200	4978300	7624000	66546	66024	55506	45940	56785	52185
QAQLAQTLQQQEQASQGLR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	3933300	3746100	3714100	0	0	0	0	0	0
QAQQAQNVQR	PPAN; PPAN-P2RY1	Q9NQ55; A0A0A	SSF1_HUMA	Unmodified	0	403770	534290	0	0	0	0	0	0
QAQQERDELADEIANSSGK	MYH9	P35579	MYH9_HUM	Unmodified	1465700	1884400	1793500	98905	0	141550	0	0	0
QAQQERDELADEIANSSGK	MYH9	P35579	MYH9_HUM	Deamidation (N)	3262900	3515700	2845100	0	181360	0	0	0	0
QAQQERDELADEIANSSGKGALALEEK	MYH9	P35579	MYH9_HUM	Deamidation (N)	1627400	684070	1360200	0	0	0	0	0	0
QAQQERDELADEIANSSGKGALALEEKR	MYH9	P35579	MYH9_HUM	Deamidation (N)	2235700	2131400	2882000	0	0	0	0	0	0
QAQQERDELADEIANSSGKGALALEEKR	MYH9	P35579	MYH9_HUM	Unmodified	1917000	0	0	0	0	0	0	0	0
QAQVATGGGPGAPPGSQPDYSAAWAEYYR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	3470200	0	0	0	0	0	0	0	0
QAQVPLAAVIKPLAR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	1690600	1432600	1716800	114640	105500	79546	30450	0	15747
QAQVQIR	DSG2	Q14126	DSG2_HUMA	Unmodified	1266300	1167100	1589000	108670	78495	90879	0	0	0
QASALIDRPAPFFER	EPB41L1; EPB41L1;	Q9H4G0; A0A0C4	E41L1_HUM	Unmodified	4415000	4454600	4865900	724530	766300	609750	189410	148380	136020
QASALIDRPAPHFER	EPB41; EPB41; EPB	P11171; A0A2R8	EPB41_HUM	Unmodified	7376600	3649600	4620200	905610	385600	399050	0	55242	55718
QASEGPLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	41733000	36783000	38181000	215300	226590	235060	0	11277	0
QASIQHIQNAIDTEK	ATP5PB; ATP5PB	P24539; Q5QNZ2	ATP5F1_HUM	Unmodified	1980800	2268600	2671300	0	0	0	0	0	0
QASPNIVIALAGNK	RAB5C; N/A; RAB5C	P51148; K7ERQ8;	RAB5C_HUM	Deamidation (N)	1620800	0	0	0	0	0	0	0	0
QASPNIVIALAGNK	RAB5C; N/A; RAB5C	P51148; K7ERQ8;	RAB5C_HUM	Unmodified	2639300	3072500	3019900	41686	34539	29097	0	0	0
QASPNIVIALAGNKADLASK	RAB5C; N/A; RAB5C	P51148; K7ERQ8;	RAB5C_HUM	Unmodified	1920300	1662300	1966700	0	0	0	0	0	0
QASPNIVIALAGNKADLASKR	RAB5C; N/A; RAB5C	P51148; K7ERQ8;	RAB5C_HUM	Deamidation (N)	5779600	6097800	5031600	18341	34100	0	0	0	39385
QASPNIVIALSGNK	RAB5A	P20339	RAB5A_HUM	Unmodified	1360100	778140	830780	0	34885	61956	0	0	0
QASPNIVIALSGNKADLANKR	RAB5A	P20339	RAB5A_HUM	Deamidation (N)	1773600	1153400	0	47905	47372	73968	0	0	0
QASPSIVIALAGNK	RAB5B	P61020	RAB5B_HUM	Unmodified	581730	408230	546430	16171	17692	15847	0	0	0
QASQGMVGQLAAR	RUVBL2; RUVBL2	Q9Y230; X6R2L4	RUVB2_HUM	Oxidation (M)	4148100	4335200	3679600	0	119560	84434	0	0	0
QASTLIDRPAPHFER	EPB41L2; EPB41L2;	O43491; A0A2R8	E41L2_HUM	Unmodified	0	0	861490	173270	474290	663940	0	0	157340
QASVADYEETVKK	ALDH7A1; ALDH7A	P49419; A0A1B0	AL7A1_HUM	Unmodified	0	1547700	1567700	64219	0	71418	0	0	0
QATKDAGQISGLNVLR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	12350000	11142000	12854000	689840	615250	752450	88899	69942	87549
QATKDAGTIAGLNVLR	HSPA8; HSPA8; HSP	P11142; E9PQK7;	HSP7C_HUM	Unmodified	52716000	51955000	58192000	1219300	844660	627890	0	41550	0
QATKDAGTIAGLNVMR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M)	24079000	21082000	23813000	860200	812370	656270	22702	32765	29696
QATKDAGTIAGLNVMR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Oxidation (M);Deam	0	813300	767120	17861	0	0	0	0	0
QATKDAGTITGLNVLR	HSPA2	P54652	HSP72_HUM	Unmodified	3054800	4757500	2408100	51565	63434	36831	0	0	0
QATKDAGVIAGLNVLR	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L_HUM	Unmodified	15822000	13800000	14899000	519230	536400	279480	169110	30911	99719
QATLTISSAR	KIT	P10721	KIT_HUMAN	Unmodified	970000	0	695180	0	0	0	0	0	0
QATSISSETKNTLR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	1780100	2216500	1619900	88624	138000	102410	0	0	0
QATSISSETKNTLR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Deamidation (N)	3518900	3355000	2656800	0	0	0	0	0	0
QATTIIADNIIFLSDQTKEKE	SSBP1	Q04837	SSBP_HUMA	Unmodified	8698500	4822000	8208400	0	0	0	43606	0	0
QATVGDINTERPGMLDFTGK	DBI; DBI; DBI	P07108; B8ZWD1	ACBP_HUMA	Oxidation (M)	44840000	37713000	38516000	896880	768030	781490	204950	0	93186
QATVGDINTERPGMLDFTGK	DBI; DBI; DBI	P07108; B8ZWD1	ACBP_HUMA	Oxidation (M);Deam	23854000	22202000	21290000	264470	218900	140270	36699	0	0
QAVDFLSNEGHIYSTVDDDHFK	RPA2; RPA2	P15927; Q5TEJ0	RFA2_HUMA	Unmodified	978450	0	945250	0	0	0	0	0	0
QAVDFLSNEGHIYSTVDDDHFKSTDAE	RPA2; RPA2	P15927; Q5TEJ0	RFA2_HUMA	Unmodified	0	1295400	1652500	0	0	0	0	0	0
QAVDQIK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	1835300	2213800	2090700	194610	229160	186950	0	0	0
QAVDQIKSQEQLAAELAEYTAK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	5173000	5087700	4873000	0	0	0	0	0	0
QAVDRALAEGVLLR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Unmodified	539130	584640	630220	30579	36929	26044	0	0	0
QAVDVSPLRR	RPS5; RPS5; RPS5; R	P46782; M0R0R2	RS5_HUMAN	Unmodified	2868000	3287200	3515500	0	0	0	0	0	0
QAVEEMMDR	SHTN1	A0MZ66	SHOT1_HUM	Oxidation (M)	966020	1101700	1190000	0	72875	57468	0	0	0
QAVEMKNDKSEEEQSSSSVK	HNRNPC; HNRNPC;	P07910; G3V2D6;	HNRPC_HUM	Oxidation (M);Deam	6087600	8327700	4640600	270460	590330	169560	0	0	0
QAVEQQIQSHR	KIF5B	P33176	KIN1_HUMA	Unmodified	2092300	2194500	3317800	0	0	24919	0	0	0
QAVPISVPR	SNX27; SNX27	Q96L92; A0A5H1	SNX27_HUM	Unmodified	1028600	710010	774530	148890	138860	120130	9790.9	0	12158
QAVPLFSK	APIS; APIS	Q9BZZ5; G3V1C3	APIS_HUMA	Unmodified	1493100	1197900	2017500	57655	58254	0	0	0	0
QAVQALQALQR	PHC1; PHC1; PHC1;	P78364; F5H6P9;	PHC1_HUMA	Unmodified	1183200	1035800	1548500	0	0	0	0	0	0
QAVQILDELAEKLK	SH3GL1	Q99961	SH3G1_HUM	Unmodified	801210	463330	749420	0	0	0	0	0	0
QAVSMFLGAVEEAKKEGGTVVYGGK	ALDH7A1; ALDH7A	P49419; A0A1B0	AL7A1_HUM	Oxidation (M)	0	603040	0	0	0	0	0	0	0
QAVTNPNNTFYATK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Deamidation (N)	4323000	3507500	3445000	290020	259060	146570	0	0	0
QAVTNPNNTFYATK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	0	0	1498200	68704	142600	90151	0	0	0
QAVTNPNNTFYATK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	2 Deamidation (N)	1391100	1014100	1850700	0	0	0	0	0	0
QAVTNPNNTFYATKR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	2114700	1360300	2399100	78389	113110	0	0	0	0
QAVTNPNNTFYATKR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	2 Deamidation (N)	3300600	3279200	2509200	92819	72682	104930	0	0	0
QAVTNPNNTFYATKR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Deamidation (N)	5864300	5399400	5019900	567850	557160	651030	0	36101	28555
QAVTPPGLQEAINDLVK	PGM3; PGM3; PGM	O95394; J3KN95;	AGM1_HUM	Unmodified	384780	371050	379480	0	0	0	0	0	0
QAWQKADINTK	RPL14; RPL14	P50914; E7EPB3	RL14_HUMA	Unmodified	337820	297200	366670	15388	0	0	0	0	0
QAYLDFK	DNAJC9	Q8WXX5	DNJC9_HUM	Unmodified	832160	503270	712890	0	0	0	0	0	0
QCEGITSPEGSK	PPME1	Q9Y570	PPME1_HUM	Unmodified	0	466170	722270	0	46119	0	0	0	0
QCPIMDPAWEAPEGVPIDAIIFGGRRPK	PCK2; PCK2; PCK2;	Q16822; H0YM31	PCKGM_HUM	Oxidation (M)	1855700	710100	604360	0	0	0	0	0	0
QDAFANFANFSK	CLINT1	Q14677	EPN4_HUMA	Unmodified	0	0	0	682450	497030	0	18378	0	0
QDAFLLSK	THOP1; THOP1; THO	P52888; K7EL02;	THOP1_HUM	Unmodified	1090100	1219300	1366800	20285	18268	24083	0	0	0
QDAQVVLYR	PRKDC	P78527	PRKDC_HUM	Unmodified	2249800	1959400	1964000	57395	0	97779	0	0	0
QDEEKPLHALLHGR	IGFBP5; IGFBP5	P24593; C9JXX4	IBP5_HUMA	Unmodified	892540	934150	920420	0	0	0	0	0	0
QDEQLQK	CLTA; CLTA; CLTA	P09496; C9J8P9;	CLCA_HUMA	Unmodified	788960	1899500	2283700	0	47264	27177	0	0	0
QDEVLQAR	MYH14; MYH14	Q7Z406; M0QY43	MYH14_HUM	Unmodified	1051100	1559500	1682300	0	0	0	0	0	0
QDFVQHFSQIVR	FDPS; FDPS; FDPS; I	P14324; A0A087	FPPS_HUMA	Unmodified	0	1121500	1125500	0	0	0	0	0	0
QDGDQFYIK	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Unmodified	9218700	8349100	9670600	0	0	20982	0	0	0
QDGPMPKPHSVSLNDTETR	VAPA	Q9P0L0	VAPA_HUMA	Oxidation (M);Deam	1121200	698100	1035100	0	106810	91628	0	0	0
QDHAQQLATAAEER	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	0	1155500	1071500	0	0	0	0	0	0
QDHPSSMGVYGQESGGFSGPGENR	EWSR1; EWSR1	Q01844; B0QYK0	EWS_HUMAN	Oxidation (M)	6982600	6099900	5935400	0	578130	246660	0	0	0
QDHPSSMGVYGQESGGFSGPGENR	EWSR1; EWSR1	Q01844; B0QYK0	EWS_HUMAN	Oxidation (M);Deam	2264400	1978700	2140500	0	0	0	0	0	0
QDIAFAYQR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2_HUM	Unmodified	0	3593800	3025500	874100	845920	1026200	28847	46003	25838
QDIDTQKIQER	RAD50; N/A	Q92878; A0A1W2	RAD50_HUM	Unmodified	513630	829470	765360	43673	62026	0	0	0	0
QDLAYER	EIF3L; EIF3L; EIF3L;	Q9Y262; B0QY89	EIF3L_HUMA	Unmodified	1177400	1332700	1252100	0	144210	0	0	0	0
QDLGSPEGIAVDHLGR	NID1	P14543	NID1_HUMA	Unmodified	0	0	0	0	359550	0	0	0	0
QDLLNVLAR	CCDC47	Q96A33	CCD47_HUM	Unmodified	0	1385800	419310	20822	0	0	0	0	0
QDLPALEEKPR	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74_HUM	Unmodified	720790	0	491730	0	0	0	0	0	0
QDLSEAMSMGELQR	ARL10	Q8N8L6	ARL10_HUM	Oxidation (M)	251490	0	0	0	546590	760880	521040	297220	0
QDLTTLDVTK	EIF2S3; EIF2S3B; EI	P41091; Q2VIR3;	IF2G_HUMA	Unmodified	3868800	3864800	3981900	0	122210	0	0	0	0
QDLTTLDVTKLTPLSHEVISR	EIF2S3; EIF2S3B; EI	P41091; Q2VIR3;	IF2G_HUMA	Unmodified	3674200	4065700	3851700	0	0	0	0	0	0
QDMTPGGGPGARR	LRP10; LRP10	Q7Z4F1; H0YHW	LRP10_HUM	Oxidation (M);Metl	7308200	0	0	0	0	0	0	0	0
QDPFQESGLHLSPTAAEAK	SLC9A3R2; SLC9A3	Q15599; H3BN50	NHRF2_HUM	Unmodified	184210	345260	254790	15901	0	0	0	0	0
QDPLVLYMYGAPQDVR	FGD4; FGD4; FGD4;	Q96M96; B7Z493	FGD4_HUMA	Oxidation (M)	341650	637580	347890	0	0	0	0	0	0
QDPQLHPEDPERR	MRPL28; MRPL28; I	Q13084; A2IDC6;	RM28_HUMA	Unmodified	2380000	1963100	757070	0	0	22515	0	0	0
QDPSVLHTEEMR	ST13; ST13P5; ST13;	P50502; Q8NFH4;	F10A1_HUM	Oxidation (M)	415550	336270	0	0	0	0	0	0	0
QDSLLLLSQR	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1_HUM	Unmodified	0	785640	0	0	0	0	0	0	0
QDTFSGTGFFPLDRETK	USP15	Q9Y4E8	UBP15_HUM	Unmodified	586620	718010	457350	19190	0	0	0	0	0
QDTQEKEGILPER	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA_HUMA	Unmodified	601850	863590	1166400	0	0	0	0	0	0
QDVDNASLAR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	5884800	5750200	5550100	4308900	4178600	4733500	0	0	0
QDVDNASLAR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Deamidation (N)	1040200	1449400	918230	339320	260440	400850	0	0	0
QDVIITALDNVEAR	UBA6; UBA6	A0AVT1; H0Y8S9	UBA6_HUMA	Unmodified	802180	913400	733420	0	0	0	0	0	0
QDVYGPQPQVR	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Unmodified	1186200	1528700	1386100	0	0	149120	0	35193	0
QEAGGGFVLPPPGTDLVFLR	MBD1; MBD1; MBD	Q9UIS9; K7EPZ6;	MBD1_HUM	Unmodified	167910	112830	155460	0	0	0	0	0	0
QEALEWLIR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1_HUMA	Unmodified	819470	1481500	705580	0	0	0	0	0	0
QEALPLHQETK	KTN1	Q86UP2	KTN1_HUMA	Unmodified	1379600	2039800	1698100	126450	121190	89529	0	0	0
QEATLVVGGDGR	PGM1; PGM1	P36871; A0A3B3	PGM1_HUM	Unmodified	1232800	1099200	1078500	0	0	0	0	0	0
QEAVALLQGQR	CRK; CRK	P46108; I3L297	CRK_HUMAN	Unmodified	2135300	1888500	1865900	14867	38389	45859	0	0	0
QEAVSMIPPLLNVRPHHK	NSUN2; NSUN2	Q08J23; A0A140	NSUN2_HUM	Oxidation (M)	1190300	1445400	0	0	0	0	0	0	0
QEDEVMR	ARPC3	O15145	ARPC3_HUM	Oxidation (M)	499370	316310	359960	25046	0	0	0	0	0
QEDKDDLDVTELTNEDLLDQLVK	TMPO; TMPO; TMP	P42167; P42166;	LAP2B_HUM	Unmodified	1912500	0	737650	0	0	0	0	0	0
QEDLRNQKEASQSRGQEPQAPSSSK	PPP1R12C; PPP1R12	Q9BZL4; K7EL81	PP12C_HUM	3 Methyl (KR);Dea	1807500	0	1688500	0	0	0	64256	0	38666
QEEDVNVRK	NBN; NBN; NBN	O60934; A0A0C4	NBN_HUMAN	2 Methyl (KR)	0	7738900	0	0	0	0	0	0	0
QEEEMMAKEEELVK	MYH9	P35579	MYH9_HUM	2 Oxidation (M)	989230	928160	922980	0	0	0	0	0	0
QEEIASLKER	MCIDAS	D6RGH6	MCIN_HUMA	Unmodified	0	646010	986190	0	0	0	0	0	0
QEESILMKENVLDEVANAK	SAMD9L	Q8IVG5	SAM9L_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
QEFLLRR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	2098100	2000300	2020700	67661	42165	40173	0	0	0
QEGDTFYIK	CRABP2; CRABP2	P29373; Q5SYZ4	RABP2_HUM	Unmodified	1869700	1477000	1917300	79174	77319	71792	0	0	0
QEIDMEDEEADLRR	ATXN3; ATXN3; AT	P54252; A0A0A0	ATX3_HUMA	Oxidation (M)	795330	948100	703320	0	0	0	0	0	0
QEIFQEQLAAVPEFR	COPG1	Q9Y678	COPG1_HUM	Unmodified	2424100	2595000	2494300	0	12609	0	0	0	0
QEINAARPQCPVGFNTLAFPSMKR	PELI1	Q96FA3	PELI1_HUMA	Oxidation (M);2 M	0	0	0	0	0	0	85417	0	0
QEIVSLFNAFGR	ERO1A	Q96HE7	ERO1A_HUM	Unmodified	1399500	0	1318800	0	0	0	0	0	0
QEKPAEKPAETPVATSPTATDSTSGDSSR	RAD23B; RAD23B	P54727; H0Y579	RD23B_HUM	Unmodified	2335500	2320900	3159000	343790	467370	559310	0	0	0
QEKTEKEEEK	RSF1; RSF1; RSF1	Q96T23; H0YCN2	RSF1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
QELDDILK	CHD4; CHD3; CHD5	Q14839; Q12873;	CHD4_HUMA	Unmodified	1395900	0	1131000	22086	0	18854	0	0	0
QELILSNSEDKSIR	COPA; COPA; COPA	P53621; A0A3B3	COPA_HUMA	Deamidation (N)	4622700	4686100	0	213190	496870	199110	0	0	0
QELLEALTK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	1074000	1293500	1276700	9018.5	0	9473.6	0	0	0

QELLVR	DACT1	Q9NYF0	DACT1	HUM	Acetyl (Protein N-t	22498000	18267000	16173000	469640	642600	390490	0	0	0
QELSFAAR	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	1974200	1189800	1168000	59924	48898	57931	0	12662	0
QELSHALYQHDAACR	PRPF19; PRPF19; PR	Q9UMS4; F5H2I0	PRP19	HUM	Unmodified	424260	645120	767150	0	0	0	0	0	0
QELTSQAER	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	2291000	2507700	2776300	0	120110	0	0	0	0
QELTSQAERAEELGQELK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1160000	834470	1408200	0	0	0	0	0	0
QEMQEVQSSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M)	48087000	51017000	51800000	1891500	2209600	2066200	0	0	0
QEMQEVQSSRSGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	Oxidation (M)	6890900	12262	16093000	738050	802180	2099600	0	0	0
QENGASVILR	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D	HUMA	Deamidation (N)	11292000	9517100	6019500	195330	37574	62274	0	0	0
QENGASVILRDIAR	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D	HUMA	Deamidation (N)	1694800	11391000	2621700	43526	0	0	0	0	0
QEPLLIGSTK	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	2612500	3797000	2987400	0	181560	154130	0	0	0
QEPSQGTTTFAVTSILR	IGHA1; IGHA1; IGHJ	P01876; A0A286Y	IGHA1	HUM	Unmodified	7042100	6607000	4443400	71946	73932	60880	0	0	0
QEQALLEEIER	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	464170	525420	906190	62255	0	0	0	0	0
QEQQEGPVGPAPSRPALQEK	DDX54	Q8TDD1	DDX54	HUM	Unmodified	1039600	1708900	1391600	0	0	0	0	0	0
QEQQIEK	N/A	N/A	N/A		Unmodified	605260	856700	0	0	0	0	0	0	0
QEQRPLPNVSTER	C1orf198; C1orf198	Q9H425; E5RFY9	CA198	HUM	Unmodified	1241000	1309000	1059200	0	0	0	0	0	0
QEQSYFVR	PLIN3	O60664	PLIN3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
QERHMIMHK	CTCF; CTCF; CTCF	P49711; A0A2R8	CTCF	HUMA	2 Oxidation (M);M	916450	1076600	207070	56786	0	49749	0	0	0
QESTEYR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Unmodified	404450	454580	359120	553630	373380	41849	0	0	0
QESTEYRR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Unmodified	4123600	0	4080400	4466900	4762300	4389900	53564	0	0
QETKEAQLYAAQAHLK	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Unmodified	4639100	4284300	5728600	48699	0	156480	0	0	0
QETSLTSHDLFDIDPVVAR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	622070	0	0	0	0	0	0	0	0
QETVADFTPK	PRPF40A; PRPF40A;	O75400; F5H578;	PR40A	HUM	Unmodified	325330	258020	0	0	135750	0	0	0	0
QEVIRGWEEGVAQMSVGQR	FKBP1A; FKBP1A; F	P62942; F6T7Q3;	FKB1A	HUM	Oxidation (M)	953870	1370500	979250	0	0	0	0	0	0
QEVISTSSK	RACK1; RACK1; RA	P63244; D6RAC2	RACK1	HUM	Unmodified	1028800	1264200	882350	200230	297010	265090	0	46655	0
QEYDESGPSIVHR	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ	HUM	Unmodified	78504000	90638000	76728000	576790	824760	1038100	0	0	0
QEYDESGPSIVHRK	POTEJ; POTEE; POT	P0CG39; Q6S8J3;	POTEJ	HUM	Unmodified	9048900	3846000	7179900	323540	317790	239060	26966	38672	0
QFAAQTVGNTYGNFSLATMFPRR	UBXN4	Q92575	UBXN4	HUM	Oxidation (M);Metl	0	3774000	0	0	0	0	0	0	0
QFAEMYVAK	EEF2	P13639	EF2	HUMAN	Oxidation (M)	983080	1162400	1007400	0	0	0	0	0	0
QFAPIHAEAPEFMEMSVEQEILVTGIK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB	HUMA	2 Oxidation (M)	7152600	5613600	7626000	0	0	0	0	0	0
QFASQANVVGPWIQTK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	6687000	5291200	6289300	99465	97834	0	0	0	0
QFASQANVVGPWIQTK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Deamidation (N)	247110	255410	272730	0	0	0	0	0	0
QFESLPATHIR	MTA2	O94776	MTA2	HUM	Unmodified	3460200	4142900	2632500	76263	0	81179	0	0	0
QFFDER	DYNC1I2; DYNC1I2	Q13409; E7EQL5	DC1I2	HUM	Unmodified	1095000	821250	1102000	0	0	0	0	0	0
QFFPTDEDEIGAAK	P4HA2; P4HA2; P4H	O15460; E7ERI1;	P4HA2	HUM	Unmodified	983080	1381500	966750	0	0	0	0	0	0
QFGAQANVIGPWIQTK	ACTN1; ACTN1; AC	P12814; H0YJW3	ACTN1	HUM	Unmodified	986890	1026000	1016300	0	0	0	0	0	0
QFGVAPFTIAR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	3422300	4239400	3192200	877500	874850	810040	182460	174520	89672
QFHFKDFNR	PCBD1	P61457	PHS	HUMAN	Unmodified	1010400	1495200	1516500	0	0	0	0	0	0
QFIAAQGSSR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUM	Unmodified	1087400	99646	1221200	0	0	0	0	0	0
QFIDKLLPPID	LYPLA1; LYPLA1; I	O75608; B4DP64;	LYPA1	HUM	Unmodified	2633800	3021500	2975800	7971.9	0	0	0	0	0
QFILVMNALDNR	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUMA	Oxidation (M)	6547600	5259900	4516000	0	0	0	0	0	0
QFLESSELPR	SNX2	O60749	SNX2	HUMA	Unmodified	816370	1221000	1029000	0	0	0	0	0	0
QFLEVELDQAREK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	861580	1162500	0	0	0	0	0	0	0
QFLFRPWDVTK	UBA1	P22314	UBA1	HUMA	Unmodified	5919700	5426800	6090000	23483	18768	22548	0	0	0
QFLPFLQR	SND1; SND1	Q7KZF4; H7C597	SND1	HUM	Unmodified	6548000	6040600	6147700	115610	0	0	0	0	0
QFLSETEK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Unmodified	6107000	4505000	7074800	23122	30882	0	0	0	0
QFLSETEKMSPEDR	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Oxidation (M)	13609000	12273000	12345000	0	11078	0	0	0	0
QFLSQFEMQSR	CPSF6; CPSF6	Q16630; F8WJN3	CPSF6	HUM	Oxidation (M)	719010	585410	711780	33030	27278	0	0	0	0
QFMIFTQSSEK	DCUN1D1; DCUN1D	Q96GG9; F8WC3	DCNL1	HUM	Oxidation (M)	463530	550080	752610	0	0	0	0	0	0
QFNKLTEDKADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Unmodified	3263700	6487400	3431300	0	0	0	0	0	0
QFNKLTEDKADVQSIIGLQR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Deamidation (N)	4332700	11658000	5150800	0	0	0	0	0	0
QFPFHEMFAAR	TBC1D10B; TBC1D1	Q4KMP7; H3BSE	TB10B	HUM	Oxidation (M)	769090	687090	564450	0	0	36356	0	0	0
QFPVMTEAITQIR	ACAD10; ACAD10	Q6JQN1; F8W1J9	ACD10	HUM	Oxidation (M)	881620	0	598800	0	0	0	0	0	0
QFQDAGHFDAENIKK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	727930	660620	1321000	0	0	0	0	0	0
QFQSAPATVR	PRRC2C; PRRC2C; I	Q9Y520; A0A2R8	PRC2C	HUM	Unmodified	0	607150	613150	0	0	0	0	0	0
QFRPAVYAGEVER	NUDT14	O95848	NUD14	HUM	Unmodified	3131500	3908300	2719600	0	0	0	0	0	0
QFSIQAEDERESTDDESNPLGR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	2111500	2040000	1865200	79005	84717	0	0	0	0
QFSQYIK	RPL5; RPL5	P46777; A0A2R8	RL5	HUMAN	Unmodified	5326600	3930100	4559200	73175	85387	108360	0	0	0
QFTSSTSYNRGDSTFESK	FGA	P02671	FIBA	HUMA	Unmodified	1250800	1016500	842560	0	0	56133	0	0	0
QFVPAVEK	GFM1; GFM1	Q96RP9; C9IZ01	EFGM	HUM	Unmodified	2062300	1040900	0	0	81435	114740	0	0	0
QFVPGDEPR	CNP	P09543	CN37	HUM	Unmodified	2075900	1764900	2494300	0	0	0	0	0	0
QFVPIKVEQIEAGTPGR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1	HUM	Unmodified	12664000	13123000	8721200	33119	0	0	18753	0	0
QFVPIKVEQIEAGTPGRLR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1	HUM	Unmodified	0	3028600	0	0	0	0	0	0	0
QFVTATDVVR	LCP1	P13796	PLSL	HUM	Unmodified	0	2311500	2762100	73165	0	0	0	0	0
QFVVFEGNHYFYSPYPTK	RPN1	P04843	RPN1	HUMA	Deamidation (N)	1918400	1331600	1587200	0	0	0	0	0	0
QGAAIGIPYFTAYR	CRYZ; CRYZ; CRYZ	Q08257; A6NP24;	QOR	HUMA	Unmodified	0	2203400	0	0	0	0	0	0	0
QGAFLVNAAR	CTBP2	P56545	CTBP2	HUM	Unmodified	4785700	4242200	5248500	273470	213230	215700	0	0	0
QGAFLVNAAR	CTBP2	P56545	CTBP2	HUM	Deamidation (N)	1629000	1473500	1542700	42419	117290	93626	0	0	0
QGAGATNGKDKTSGENDGQKK	PCP4	P48539	PCP4	HUMA	2 Deamidation (N)	75224	1409800	0	0	0	0	0	0	0
QGAIYHGLATLLNQPSPMMQR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUMA	2 Oxidation (M)	1186100	1029400	905550	0	0	0	17175	0	0
QGALELIK	C3	P01024	CO3	HUMAN	Unmodified	2494800	2123700	2261700	0	0	0	0	0	0
QGANINEIR	PCBP1	Q15365	PCBP1	HUM	Unmodified	6022700	6803800	7934300	164170	0	241760	0	0	0
QGANINEIR	PCBP1	Q15365	PCBP1	HUM	Deamidation (N)	0	0	1678000	44234	34417	0	0	0	0
QGANINEIRQMSGAQIK	PCBP1	Q15365	PCBP1	HUM	Oxidation (M);Deai	3266600	2831100	3452900	110640	107690	126800	0	0	0
QGANINEIRQMSGAQIK	PCBP1	Q15365	PCBP1	HUM	Oxidation (M)	7307900	8012500	8233200	0	0	41164	0	0	0
QGAPAPPPAAR	GPRIN1	Q7Z2K8	GRIN1	HUM	Unmodified	3246100	3006400	2879900	19959	0	0	0	0	0
QGAPTSFLPPEASQLKPDR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	7872000	7439100	8968400	150820	112540	95714	0	17891	0
QGAPTSFLPPEASQLKPDRQQFQSR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Unmodified	3065900	3911200	3547200	80196	67767	54192	30264	0	0
QGDGKWHLVYR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	Unmodified	182370	344140	240730	0	0	0	0	0	0
QGDMVLEKPYSEATAR	AFG3L2	Q9Y4W6	AFG32	HUM	Oxidation (M)	5238400	5861500	6123500	177880	171610	209760	0	0	0
QGDTGDWIGTFLGHK	STRAP	Q9Y3F4	STRAP	HUM	Unmodified	0	3237400	3501300	0	0	0	0	0	0
QGEAEFNR	ACTN4; ACTN4	O43707; F5GXS2	ACTN4	HUM	Unmodified	951440	828710	1606000	0	0	0	0	0	0
QGEEPLVR	ZC3H11B; ZC3H11A	A0A1B0GTU1; O	ZC11B	HUM	Unmodified	1363700	1101800	1686800	0	0	0	0	0	0
QGETQTELVMFILLR	XPO5	Q9HAV4	XPO5	HUMA	Oxidation (M)	378620	174800	173860	0	0	0	0	0	0
QGEVVQR	NELFB; NELFB	Q8WX92; A0A5H	NELFB	HUM	Unmodified	4015100	0	5619000	0	0	45733	0	0	0
QGFDFLCMPVFHPR	PRMT5; PRMT5; PR	O14744; G3V2L6;	ANM5	HUM	Oxidation (M)	1003600	794230	786240	0	0	0	0	0	0
QGFGELLQAVPLADSFR	APEX1; APEX1; APE	P27695; G3V5Q1;	APEX1	HUM	Unmodified	15218000	12512000	13004000	0	0	0	0	0	0
QGFNVVVESGAGEASK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM	HUM	Unmodified	1754800	838520	1925200	0	0	0	0	0	0
QGFPNRVVFQEFR	MYH9	P35579	MYH9	HUM	Unmodified	1732100	1577600	2178200	19495	0	18603	0	12783	0
QGFPNRVVFQEFR	MYH9	P35579	MYH9	HUM	Deamidation (N)	778240	997720	1292300	0	0	11198	0	0	0
QGFVPAAYVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	2153000	1732200	2188900	319480	281140	246800	5854.8	17281	0
QGGDLGWMTR	PIN4	Q9Y237	PIN4	HUMA	Oxidation (M)	2579000	2349300	2584000	135390	146280	191030	0	0	0
QGGDVLQNEEGETTSHLMGMFYR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	2 Oxidation (M)	4682800	2513800	2090000	0	0	0	0	0	0
QGGDVLQNEEGETTSHLMGMFYR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	2 Oxidation (M);De	2135600	1666000	1906200	0	0	0	0	0	0
QGGGGGGGSVPGIER	HNRNPM; HNRNPM	P52272; M0R2T0;	HNRPM	HUM	Unmodified	76448000	79350000	103080000	3992400	4543000	3739000	296880	21326	0
QGGLGPIRIPLLSDLTHQISK	PRDX4; PRDX4; PRI	Q13162; A6NJJ0;	PRDX4	HUM	Unmodified	713230	0	723620	0	0	0	0	0	0
QGGPTYYIDTNALR	ACTL6A; ACTL6A; /	O96019; H7C5S0;	ACL6A	HUM	Unmodified	0	1770900	1440200	0	79149	22182	0	0	0
QGGPTYYIDTNALRVPR	ACTL6A; ACTL6A; /	O96019; H7C5S0;	ACL6A	HUM	Deamidation (N)	1004100	0	936040	0	0	0	0	0	0
QGHAEPQP	ACOT7	O00154	BACH	HUM	Unmodified	0	7241700	8493300	922350	637100	0	0	0	0
QGHIYMEMNFTNK	AP2B1; AP2B1	P63010; A0A087	AP2B1	HUM	2 Oxidation (M)	511610	315620	497750	19979	31117	36618	0	0	0
QGHIYMEMNFTNK	AP2B1; AP2B1	P63010; A0A087	AP2B1	HUM	2 Oxidation (M);De	632630	627760	923150	0	41578	0	0	0	0
QGIETPEDQNDLRK	SF1; SF1	Q15637; A0A7P0	SF01	HUMA	Unmodified	1285200	971440	1037000	0	0	0	0	0	0
QGIETPEDQNDLRK	SF1; SF1	Q15637; A0A7P0	SF01	HUMA	Deamidation (N)	478970	748200	598110	0	0	0	0	0	0
QGILGAQPQLIFQPHR	CCAR2; CCAR2; CC	Q8N163; E5RFJ3;	CCAR2	HUM	Unmodified	1377900	2067400	1463600	0	13879	0	0	0	0
QGIPFFGQVR	A2M	P01023	A2MG	HUM	Unmodified	3486000	2591600	3062100	31482	44609	34617	20190	22155	0
QGIQFYTQLK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA	HUM	Unmodified	3242900	0	2686300	386600	381980	362060	0	0	0
QGIVPPGLTENELWR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Unmodified	9852000	9630400	10421000	0	0	0	0	0	0
QGIVPPGLTENELWR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM	Deamidation (N)	4789600	3934200	4104300	0	0	0	0	0	0
QGIVTPIEAQTR	RBM10	P98175	RBM10	HUM	Unmodified	1208500	1246000	1539200	128590	90075	129200	0	0	0
QGLDPASQTK	KLC2; KLC2	Q9H0B6; A8MZ8	KLC2	HUMA	Unmodified	1131500	1367100	1104700	0	0	0	0	0	0
QGLLPVLESFK	APOA1; APOA1	P02647; F8W696	APOA1	HUM	Unmodified	314630	350420	353530	0	0	48222	0	54024	0
QGLLSVGIGGR	SBNO2; SBNO2	Q9Y2G9; K7ES28	SBNO2	HUM	Methyl (KR)	524810	0	173660000	16302000	49195	14899000	1801700	1743600	0
QGLPATSDIKDVDSLMR	ATP8A1	Q9Y2Q0	AT8A1	HUM	Oxidation (M)	0	0	0	351510	297090	423420	100990	57416	65589
QGLPFTIFQGGMPR	LLGL2; LLGL2; LLC	Q6P1M3; J3QLD8	L2GL2	HUM	Oxidation (M)	633860	418300	524100	0	0	0	0	0	0
QGLSSSIFTK	ALDH7A1; ALDH7A	P49419; A0A1B0	AL7A1	HUM	Unmodified	1760200	1570300	1817000	0	0	0	0	0	0
QGNAVTLGDYYQGR	LSR; LSR; LSR; LSR	Q86X29; M0QZL	LSR	HUMAN	Unmodified	0	492530	0	99105	63059	138430	0	0	0
QGNLFDFLR	NT5DC2; NT5DC2	Q9H857; H7C519	NT5D2	HUM	Unmodified	1183000	878540	0	0	0	0	0	0	0
QGNLSLPLNR	NADK2; NADK2; NA	Q4G0N4; A0A0C	NAKD2	HUM	Unmodified	624110	0	0	0	0	0	0	0	0
QGNTKQRIDEFEAL	EZR; EZR	P15311; E7EQR4	EZRI	HUMA	Unmodified	0	0	0	1521800	321340	1444400	290990	74588	76377
QGPGKQPMETTQPGVSQSN	TSPYL5	Q86VY4	TSYL5	HUM	Oxidation (M)	3276000	3531500	3368100	377800	356430	484260	0	0	0
QGQDNLSSVK	ERP29; ERP29	P30040; F8VY02	ERP29	HUM	Unmodified	4997900	4662600	4317800	64353	89603	87304	0	0	0
QGQDNLSSVK	ERP29; ERP29	P30040; F8VY02	ERP29	HUM	Deamidation (N)	0	0	1820300	0	0	0	0	0	0
QGQELSAAR	UBXN1; UBXN1; UB	Q04323; E9PJ81;	UBXN1	HUM	Unmodified	6166500	5380700	8700500	371310	432540	556200	0	0	0
QGQETAVAPSLVAPALNKPK	MAPRE1	Q15691	MARE1	HUM	Unmodified	17685000	22224000	19184000	542580	605970	712040	50007	46365	0
QGQETAVAPSLVAPALNKPK	MAPRE1	Q15691	MARE1	HUM	Methyl (KR)	1668600	1077600	1439300	0	0	70208	0	0	0
QGQETAVAPSLVAPALNKPK	MAPRE1	Q15691	MARE1	HUM	Deamidation (N)	0	1171100	1194300	65449	32061	41823	0	0	0
QGQIINPSEDPHLPK	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA	HUM	Unmodified	1040300	445340	839290	0	0	0	0	0	0
QGQIINPSEDPHLPKEK	BCKDHA; N/A; BCK	P12694; F5H5P2;	ODBA	HUM	Unmodified	942770	0	931210	0	30038	0	0	0	0
QGQMDAVR	CHMP2A; CHMP2A;	O43633; M0R1T5	CHM2A	HUM	Oxidation (M)	484800	611460	817380	0	0	0	0	0	0
QGQQQAGGDGKTEQK	HNRNPU; HNRNPU	A0A1W2PP35; A(	A0A1W2PP35	HUM	Unmodified	1539200	4518400	6880700	223100	0	0	0	0	0
QGQQQAGGDGKTEQKGGDK	HNRNPU; HNRNPU	A0A1W2PP35; A(	A0A1W2PP35	HUM	Unmodified	0	79157	92906	0	0	0	0	0	0
QGQQQAGGDGKTEQKGGDKK	HNRNPU; HNRNPU	A0A1W2PP35; A(	A0A1W2PP35	HUM	Unmodified	0	409220	465630	0	0	0	0	0	0
QGQYSPMAIEEQVAVIYAGVR	ATP5F1A	P25705	ATPA	HUMA	Oxidation (M)	1756500	998790	1359800	0	0	0	0	0	0

QGRQEALEWLIR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1	HUMA	Unmodified	0	627240	543910	0	0	0	0	0	0
QGRTLYGFGG	H4C1	P62805	H4	HUMAN	Unmodified	15159000	12735000	12470000	10805000	11859000	10512000	0	5955700	6173300
QGSATVGLK	PSMA1; PSMA1; N/A	P25786; F5H112;	PSA1	HUMA	Unmodified	3230200	3305000	2488800	79779	78292	91369	0	0	0
QGSGSSSQPMEVQEGYGFGSGDDPYSSAEPHVSGVK	TRIM28	Q13263	TIF1B	HUMA	Oxidation (M)	7546400	7224900	1445800	79064	113780	104680	0	0	0
QGSGSSQPMEVQEGYGFGSGDDPYSSAEPHVSGVKR	TRIM28	Q13263	TIF1B	HUMA	Oxidation (M)	26669000	23788000	24206000	2762200	3077400	2028600	0	0	0
QGSGVILRQEEAEYVR	CRK	P46108	CRK	HUMA	Unmodified	5427900	6212200	6379000	790740	624160	506030	89170	138210	53911
QGSIPSTQEMEAR	ZFYVE19; ZFYVE19	Q96K21; H3BN64	ANCHR	HUM	Oxidation (M)	681260	777940	665760	0	0	0	0	0	0
QGSKVQESTKGPDEAK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	1099700	1250100	769710	0	0	0	0	0	0
QGSTQGRLDDFFK	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Unmodified	0	1044800	1314000	0	0	0	0	0	0
QGSTQGRLDDFFKVTGSLSSAK	FEN1	P39748	FEN1	HUMA	Unmodified	7560600	6016700	6635100	0	0	0	0	0	0
QGTEIDGR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	38889	23096000	0	1111300	1434800	0	0	0	0
QGTEIDGRSISLYYTGEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	509080	413510	870090	0	0	0	0	0	0
QGTFHSQQALEYGTK	SUCLG1; SUCLG1	P53597; A0A494	SUCA	HUMA	Unmodified	721270	541440	478700	0	0	0	0	0	0
QGTIFLAGPPLVK	MCCC2; MCCC2; M	Q9HCC0; D6RD6	MCCB	HUM	Unmodified	1930200	1246000	1571100	600650	544530	541430	294210	285770	293550
QGTQYTFSSIEREEYGK	SSRP1	Q08945	SSRP1	HUM	Unmodified	815870	879750	961860	0	0	0	0	0	0
QGTTPPIWHLTDK	ADAR; ADAR; ADA	P55265; A0A3B3	DSRAD	HUM	Unmodified	1385000	961000	1466300	28850	0	23169	0	0	0
QGVEDAFYTLVR	NRAS; HRAS	P01111; P01112	RASN	HUMA	Unmodified	242050	1126800	1260900	0	0	0	0	0	0
QGVNNAEKFDYVMQFLNK	GLS	O94925	GLSK	HUMA	Oxidation (M);2 De	255410	410160	0	0	0	0	0	0	0
QGVPAFTVLQPEGPLAVLR	FPGS; FPGS; FPGS; I	Q05932; Q5JU23;	FOLC	HUMA	Unmodified	94923	95197	389730	0	0	0	0	0	0
QGYFVEAQPK	APCS	P02743	SAMP	HUM	Unmodified	370100	461370	526640	365050	325740	323020	224640	286770	252010
QGYGEGFR	SAR1B; SAR1A; SAI	Q9Y6B6; Q9NR31	SAR1B	HUM	Unmodified	3017200	4302300	2994900	95568	104300	119680	0	0	0
QHALSVGPQTTTLSVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	254720	318330	256030	244750	230720	282980	0	0	0
QHEQPGQGIAPDAVNGQR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUMA	Deamidation (N)	1105900	1069100	656150	0	0	0	0	0	0
QHFISFDTDR	SRI; SRI	P30626; C9J0K6	SORCN	HUM	Unmodified	851200	1083500	880440	0	0	58728	0	0	0
QHFISFDTDRSGTVDPQELQK	SRI; SRI	P30626; C9J0K6	SORCN	HUM	Unmodified	528280	526680	783810	25498	0	0	0	0	0
QHITLALEK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	588250	404880	462030	12722	29539	0	0	0	0
QHLEITGGQVR	QARS1; QARS1; QA	P47897; A0A1B0	SYQ	HUMA	Unmodified	1205300	1009200	1362400	0	48453	64397	0	0	0
QHLFYGQYEGK	IPO9	Q96P70	IPO9	HUMA	Unmodified	1666800	1040400	631080	0	0	0	0	0	0
QHLNPPGGKTSDIFGSPVTATSR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2	HUMA	Unmodified	2449300	2107500	2686800	937390	1274900	856860	18016	60802	0
QHMDITGEENPLNK	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB	HUM	Oxidation (M)	1554100	1433700	1430800	51314	51675	55640	0	0	0
QHMDITGEENPLNKLR	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB	HUM	Oxidation (M)	4422300	5013500	2595700	186910	0	186460	0	0	0
QHPEKLKFTYAMDTMEQALNKSNK	NEB	P20929	NEBU	HUM	Oxidation (M);2 M	0	902610	0	0	0	0	0	0	0
QHPQPYIFPDSPGGTSYER	NDUFB9; NDUFB9;	Q9Y6M9; E7EWZ	NDUB9	HUM	Unmodified	2776600	2376200	2883700	59817	44322	33281	0	0	0
QHQLYVGVLGSK	DDAH1	O94760	DDAH1	HUM	Unmodified	8480900	7507300	7915500	85880	77184	78541	0	0	0
QHQMQLVDSIVR	TPR	P12270	TPR	HUMA	Oxidation (M)	1021300	949480	984850	0	20177	24637	0	0	0
QHSNSNMVIMLIGNK	RAB2A; RAB2A; RA	P61019; H7C125;	RAB2A	HUM	2 Oxidation (M);De	0	0	745370	0	0	0	0	0	0
QHSSQDVHVVLK	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K6	NSF1C	HUM	Unmodified	1110000	1054600	1114900	0	0	0	0	0	0
QHTFVETESVR	ARCN1; ARCN1; AR	P48444; Q6P1Q5;	COPD	HUMA	Unmodified	773980	926190	1014300	0	0	0	0	0	0
QHVIDGEK	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4	HUM	Unmodified	361930	464270	666770	0	0	0	0	0	0
QHYPYGGPYDR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	Unmodified	307280	1182300	603220	10090	0	24170	0	0	0
QIAAIHKDLEDTEANKEK	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	891700	0	960530	0	0	0	0	0	0
QIAASSQDSVGR	ALDH18A1	P54886	P5CS	HUMA	Unmodified	496180	862010	0	0	0	0	0	0	0
QIAEEDFYEK	MCM7	P33993	MCM7	HUM	Unmodified	3037500	1923800	2149300	0	0	0	0	0	0
QIAQLQDFVR	STX5; STX5; STX5	Q13190; E9PNU4	STX5	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
QIATLHAQVADMK	MYH9	P35579	MYH9	HUM	Oxidation (M)	961580	543710	668650	0	0	0	0	0	0
QIATLHAQVADMKK	MYH9	P35579	MYH9	HUM	Oxidation (M)	642630	634620	1104100	0	0	0	0	0	0
QICLVMLETLSQSPQGR	PCBP1	Q15365	PCBP1	HUM	Oxidation (M)	2282900	1934600	2270500	0	0	0	0	0	0
QIDAPGDPFPLNPR	TSR1; TSR1	Q2NL82; I3L1Q5	TSR1	HUMA	Deamidation (N)	2490900	2784400	0	141780	130240	115970	338960	315270	0
QIDATFVRF	PPP1R7; PPP1R7	Q15435; H7C003	PP1R7	HUM	Unmodified	10817000	10827000	10210000	1039300	1568200	845490	318230	26147	25493
QIDLSTVDLKK	MANF	P55145	MANF	HUM	Unmodified	691720	518880	736220	0	0	0	0	0	0
QIDNPDYK	CALR; CALR; CALR	P27797; A0A7P0	CALR	HUM	Unmodified	13189000	11752000	11679000	389770	367880	493560	0	13709	0
QIDQFLVVAR	MTA1; MTA3; MTA;	Q13330; Q9BTC8	MTA1	HUM	Unmodified	3085300	1572900	3017700	35103	33335	21170	0	0	21225
QIEEFNIGKR	MRPS9	P82933	RT09	HUMA	Unmodified	669980	1108100	763570	0	0	0	0	0	0
QIEELKGQEVSPK	UCHL1; UCHL1; UC	P09936; D6R974;	UCHL1	HUM	Unmodified	24251000	17901000	17840000	0	0	0	0	0	0
QIEIQFAQGDR	SRSF12; SRSF10; SR	Q8WXF0; O75494	SRS12	HUM	Unmodified	858100	1166400	1296200	56097	34758	39737	0	0	0
QIENGESGR	USP11; USP11	P51784; G5E9A6	UBP11	HUM	Deamidation (N)	256550	78445	186310	0	0	0	0	0	0
QIENVLR	EIF2S2	P20042	IF2B	HUMA	Unmodified	803820	770670	1091700	0	0	0	0	0	0
QIEYEVK	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	6740700	7479300	6238600	0	0	124540	0	0	0
QIFGIPPDIK	AFG3L2	Q9Y4W6	AFG32	HUM	Unmodified	1021500	1385200	1460300	17751	0	0	0	0	0
QIFGIPPDIKGR	AFG3L2	Q9Y4W6	AFG32	HUM	Unmodified	1001400	1031800	1566200	45124	28359	29949	0	0	0
QIFNGTFVK	RPL7; RPL7; RPL7;	P18124; C9JZ88;	RL7	HUMAN	Deamidation (N)	900380	1081500	671380	0	0	0	168850	68713	0
QIGDALPVSCTISAASR	ALCAM; ALCAM; A	Q13740; F5GXJ9;	CD166	HUM	Unmodified	1429000	2544300	1132300	127980	64860	60704	0	0	0
QIGENLIVPGGIK	DPYSL4	O14531	DPYL4	HUM	Unmodified	1816700	1257700	1603300	0	0	0	0	0	0
QIGENLIVPGGVK	CRMP1; DPYSL2; DI	Q14194; Q16555;	DPYL1	HUM	Unmodified	14140000	13986000	13301000	79641	80484	86646	0	0	0
QIGENLIVPGGVK	CRMP1; DPYSL2; DI	Q14194; Q16555;	DPYL1	HUM	Deamidation (N)	2487100	2883300	2150700	0	17422	17007	0	0	0
QIGNVAALPGIVHR	RTCB	Q9Y3I0	RTCB	HUMA	Unmodified	7857900	9369100	8060700	190180	264230	233000	31497	0	0
QIGSVDTFRIPLITATPR	NEU1; NEU1	Q99519; E9PIF4	NEUR1	HUM	Unmodified	2381000	2582300	2941900	9802.7	0	0	0	0	0
QIIEQDKHALLDVTPK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	1365600	0	1601300	0	0	0	0	0	0
QIIGPFQR	SMC1A; SMC1A	Q14683; V9GYN9	SMC1A	HUM	Unmodified	4918500	4533400	4228300	71222	33993	28776	0	0	0
QIILEKEETEELK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	3247900	2462500	3129800	132250	122620	139290	0	0	0
QIILEKEETEELKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	11145000	12082000	11270000	0	0	227810	0	0	15771
QIIQQNPSLLPALLQQIGR	RAD23B	P54727	RD23B	HUM	Unmodified	885290	435910	700460	0	0	0	0	0	0
QIIVDPLSFSEER	CTNNA1; CTNNA1;	P35221; H0YBB8	CTNA1	HUM	Unmodified	2732900	3691000	2858300	0	0	24699	0	0	0
QIIVEEAK	CFL2; CFL2	Q9Y281; F8WDN	COF2	HUMA	Unmodified	499910	611390	653270	0	0	0	0	0	0
QIKPYTLMSMVANLLYEKR	PSMB3; PSMB3; PS	P49720; A0A087	PSB3	HUMA	2 Oxidation (M)	0	0	758390	0	0	0	0	0	0
QIKQVEDDIQQLLK	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7	HUMA	Unmodified	659950	561520	737810	0	0	0	0	0	0
QILDEAGK	VCL	P18206	VINC	HUM	Unmodified	657240	1726500	1365600	172520	94514	88173	0	0	0
QILLGPNTGLSGGMPGALPSLPGKI	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M)	17120000	19570000	18383000	21215	10127	0	0	0	0
QILLGPNTGLSGGMPGALPSLPGKI	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M);Dea	7238600	7105500	443490	0	0	0	0	0	0
QILLGPNTGLSGGMPGALPSLPGKI	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M);Met	935860	644580	634780	0	0	0	0	0	0
QILLGPNTGLSGGMPGALPSLPGKI	TOMM22	Q9NS69	TOM22	HUM	Oxidation (M);Met	314690	247420	278710	0	0	0	0	0	0
QILLYSATFPLSVQK	DDX6	P26196	DDX6	HUMA	Unmodified	1493200	1342800	1409800	0	0	0	0	0	0
QILSADLR	NPEPPS; NPEPPS; N	P55786; A0A7I2	PSA	HUMAN	Unmodified	2057400	1222100	1431200	0	0	24277	0	0	0
QINDIQLSR	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7I2	EIF3I	HUMA	Deamidation (N)	1067600	0	0	0	0	0	0	0	0
QINDIQLSR	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7I2	EIF3I	HUMA	Unmodified	1811800	1690900	1644800	106510	117620	106050	0	0	0
QINDYVEK	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA	Deamidation (N)	852840	772640	1107400	0	47646	31569	0	0	0
QINDYVEKGTQGK	SERPINA1; SERPIN/	P01009; A0A024	A1AT	HUMA	Unmodified	382710	0	487620	22077	0	0	0	0	0
QINHNLSAFYDSELFR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	4331400	986040	2246400	0	0	0	0	0	0
QINLSNIR	SND1	Q7KZF4	SND1	HUM	Unmodified	7136000	7209700	7662900	678900	729890	770320	0	0	61609
QINVGNALEYVSR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	695730	472980	509400	0	0	0	0	12136	0
QINWTVLYR	RPL24; RPL24; RPL:	P83731; C9JNW5	RL24	HUMA	Unmodified	4670100	3496900	0	0	0	28041	0	0	0
QIPLQSLDLEFGSGFQPR	EMC1	Q8N766	EMC1	HUM	Unmodified	621960	124550	0	0	0	0	0	0	0
QIPYTMMK	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP	HUM	2 Oxidation (M)	3227400	4008400	3536400	73672	77663	115600	0	0	0
QIQVSWLR	IGHM	P01871	IGHM	HUMA	Unmodified	4730100	5177100	3724200	118150	0	122600	0	22432	34210
QIRVDHAGK	RBM3	P98179	RBM3	HUM	Unmodified	569420	363250	341340	45447	56327	22171	7777.8	0	7478.7
QIRVDQAGK	CIRBP; CIRBP; CIRE	Q14011; K7EPM4	CIRBP	HUM	Unmodified	0	4196300	4538800	907530	889150	716660	0	0	0
QISPQPSTGLIYLIGHPEGQIK	FAM111B	Q6SJ93	F111B	HUM	Unmodified	5207900	5312500	3559300	0	0	0	0	0	0
QISQAYEVLSDAK	DNAJA1	P31689	DNJA1	HUM	Unmodified	3080900	3410000	2089700	0	0	0	0	0	0
QISQDVKLEPDILLR	AMPD2; AMPD2; AI	Q01433; A0A7P0	AMPD2	HUM	Unmodified	859120	767150	712810	0	0	0	0	0	0
QISRDYGVLLEGSGLALR	PRDX3	P30048	PRDX3	HUM	Unmodified	2151300	1805400	1384200	0	0	0	0	0	0
QISRPSAAGINLMIGSTR	DHX9	Q08211	DHX9	HUMA	Oxidation (M);Dea	896390	914360	734710	0	0	0	0	0	15431
QITAQQINKLEELWK	UPF1	Q92900	RENT1	HUM	Unmodified	609590	506720	479490	0	0	0	0	0	0
QITIEEGEQR	RAB6B; RAB6B	Q9NRW1; J3KR7	RAB6B	HUM	Unmodified	1382000	1585700	1390600	72238	49675	124380	0	0	0
QITITGTPANISLAQYLINAR	PCBP3; PCBP3; PCB	P57721; E9PFP8;	PCBP3	HUM	Unmodified	187680	0	73950	0	0	0	0	0	0
QITLNDLPVGR	PRDX4; PRDX4	Q13162; H7C3T4	PRDX4	HUM	Deamidation (N)	8930500	9135500	9542300	167650	162050	143320	0	0	0
QITLNDLPVGR	PRDX4; PRDX4	Q13162; H7C3T4	PRDX4	HUM	Unmodified	0	11017000	0	158100	198690	193060	0	0	0
QITMEELVR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	510010	514380	654910	0	43878	51342	27884	0	0
QITQNTDYR	GLG1	Q92896	GSLG1	HUM	Unmodified	388070	451160	453530	0	0	0	0	0	0
QITQSALLAEAR	PRKDC	P78527	PRKDC	HUM	Unmodified	24547000	23601000	28959000	829380	820250	711190	34572	0	29856
QITSYGETCPGLEQYAIKK	CCT8	P50990	TCPQ	HUMA	Unmodified	1988100	2102200	2111300	0	0	0	0	0	0
QITVNDLPVGRSVDEALR	PRDX2	P32119	PRDX2	HUM	Deamidation (N)	3370000	0	2694400	0	0	0	0	0	0
QITVNDLPVGRSVDEALR	PRDX2	P32119	PRDX2	HUM	Unmodified	430770	620300	393510	0	0	0	0	0	0
QIVSEMLR	AP2A1	O95782	AP2A1	HUM	Oxidation (M)	0	425260	492280	0	21361	32436	0	0	0
QIVSSIGLCR	NPNT; NPNT; NPNT	Q6UXI9; D6RH31	NPNT	HUMA	Unmodified	0	0	0	250310	221630	226890	41495	31472	72190
QIVWNGPVGVFEWEAFAR	PGK1	P00558	PGK1	HUMA	Deamidation (N)	157880	21687	77373	0	0	0	0	0	0
QIVIYNEK	NUP93; NUP93; NUP	Q8N1F7; H3BP95	NUP93	HUM	Unmodified	1563700	1684400	1049200	148780	128680	125620	0	0	0
QIVLSENPEETAAR	APPL1	Q9UKG1	DP13A	HUM	Unmodified	946040	1120600	954900	44136	91189	0	0	0	0
QIVPPINVLPSLSR	ATP6V1B2; ATP6V1	P21281; P15313;	VATB2	HUM	Unmodified	1835000	1847700	1850400	0	0	0	0	0	0
QIVYSDKYDDEEFEYR	CKS1B; CKS1B	P61024; Q5T179	CKS1	HUM	Unmodified	1004900	1271900	1291100	0	0	0	0	0	0
QKADEAYLIGR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMAN	Unmodified	778790	1264200	809710	38927	89578	53976	0	0	0
QKAQVEQELTTLR	PLEC	Q15149	PLEC	HUMA	Unmodified	2187800	1931500	1940500	232810	281600	227290	0	19520	10821
QKDFLDGVYAFEYYPSTPGR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	1526500	1430300	1171900	0	0	0	0	0	0
QKDYETATLSEIK	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Unmodified	2565500	2533900	2336800	78430	55060	0	0	0	0
QKEEESQQQAVLEQERR	MYO6; MYO6; MYO	Q9UM54; A0A0A	MYO6	HUM	Unmodified	1401300	1165100	1182600	141640	128910	153920	0	0	0
QKEFDPTITDASLSLPSR	CALD1; CALD1; CA	O95682; C9J813;	CALD1	HUM	Unmodified	1459200	1456100	1905400	50495	52301	28986	101050	0	108870
QKEFDPTITDASLSLPSRR	CALD1; CALD1; CA	O95682; C9J813;	CALD1	HUM	Unmodified	4803700	5611800	8209100	133320	173490	137760	429420	321290	0
QKEGNFDIVSGTR	DPM1; DPM1; DPM1	O60762; Q5QPK2	DPM1	HUM	Unmodified	656170	381180	532930	0	0	0	0	0	0
QKEMDEAATAEER	EIF4G1; EIF4G1; EIF	Q04637; C9JF13;	IF4G1	HUMA	Oxidation (M)	0	0	275330	0	0	0	0	0	0
QKEMDNFLAQMEAK	DNAJC9	Q8WXX5	DNJC9	HUM	2 Oxidation (M)	921290	1033000	747950	0	0	0	0	0	0
QKETSVWEANCVLDLDAPLNVNSLK	N/A	N/A	N/A		Unmodified	29190000	30939000	21179000	718020	0	576960	0	0	0
QKEVQMNFLNQLTSVFNPR	UBR4	Q5T4S7	UBR4	HUMA	Oxidation (M)	2121100	1657200	1692100	0	0	0	0	0	0
QKEVQMNFLNQLTSVFNPR	UBR4	Q5T4S7	UBR4	HUMA	Oxidation (M);Dea	0	0	129070	0	0	0	0	0	0

QKEVTLEEQLK	N/A	N/A	N/A	Methyl (KR)	1400000	3007500	1618900	0	0	0	0	0	0
QKGADFLVTEVENGGSLGSK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM;	Deamidation (N)	16583000	13004000	14237000	229130	184150	170220	49448	0	41954
QKGADFLVTEVENGGSLGSKK	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM;	Deamidation (N)	4944500	3701100	5200100	0	0	0	0	0	17696
QKGYEEEIIHFKK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	778640	0	1811400	0	0	0	0	0	0
QKHSQAVEELAEQLEQTKR	MYH9	P35579	MYH9_HUM;	Unmodified	2052400	2683000	2645100	0	0	0	0	0	0
QKIASLPQEVQDVSLLEK	RPRD1B; RPRD1B	Q9NQG5; A2A2M	RPR1B_HUM	Unmodified	879590	1061300	1012900	0	0	0	0	0	0
QKISFLENNLEQLTK	KIF5B; KIF5C; KIF5/	P33176; O60282;	KINH_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
QKIVQAEGEAEAAK	PHB2; PHB2; PHB2	Q99623; F5H3X6;	PHB2_HUMA	Unmodified	3680100	2727800	3905800	86281	117660	252860	0	0	0
QKIVQTDEITNTQAFRKGK	BEND6; BEND6	Q5SZJ8; Q5SZK0	BEND6_HUM	Deamidation (N)	0	0	19050000	0	0	0	0	0	0
QKLDILDQER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM;	Unmodified	621190	658450	804610	0	44424	48904	0	0	0
QKLDPAASVTGSK	MKI67	P46013	KI67_HUMA	Unmodified	0	893350	1083200	0	0	0	0	0	0
QKLEEDAEMKSLEEK	SSB	P05455	LA_HUMAN	Oxidation (M)	1301900	1399500	1414700	0	0	0	0	0	0
QKLEPSQVGLER	CGN; CGN	Q9P2M7; H0Y4A(	CING_HUMA	Unmodified	0	0	0	83920	112020	62084	0	0	0
QKLNPADAPNPVVFVATKDTR	MTA2	O94776	MTA2_HUM	Unmodified	938780	0	0	0	0	0	0	0	0
QKLPDGSEIPLPPILLGR	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2_HUM	Unmodified	1309400	955840	1068100	0	0	0	0	0	0
QKLQLEK	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14_HUM	Unmodified	0	1585600	2056000	111060	160910	134660	17888	15671	17989
QKLTAEFEEAQTSACR	RRBP1; RRBP1; RR	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	512630	585200	474660	0	20111	0	0	0	0
QKLTAQVEELSK	NUMA1; NUMA1; N	H0YFY6; K4DIE0	H0YFY6_HUM	Unmodified	1493900	2184100	2053300	0	0	0	0	0	0
QKLTAQVEQLEVFQR	NUMA1	Q14980	NUMA1_HUM	Unmodified	1403100	565990	677600	0	0	0	0	0	0
QKLTSEGAAK	CENPV; CENPV	Q7Z7K6; A0A0M	CENPV_HUM	Unmodified	679180	701510	714880	26644	0	14182	0	0	0
QKNGDTSTEEPMLNVQR	MRPS34; MRPS34	P82930; C9JI19	RT34_HUMA	Oxidation (M);Deai	2061000	1545000	2873300	150150	208730	0	0	0	0
QKNQAVNFLR	CHMP1B	Q7LBR1	CHM1B_HUM	Unmodified	0	0	1292600	0	0	0	0	0	0
QKPITPETAEKLAR	CDC42; CDC42	P60953; A0A590(	CDC42_HUM	Unmodified	1971600	1088300	539120	0	56757	98897	0	0	0
QKPSNTEDFIEDIVK	RECQL	P46063	RECQ1_HUM	Deamidation (N)	2657100	2321900	3075600	0	0	0	0	0	0
QKPSNTEDFIEDIVK	RECQL	P46063	RECQ1_HUM	Unmodified	3868000	5099900	4048300	0	0	0	0	8379.3	0
QKPVQTFTEEK	TMOD3	Q9NYL9	TMOD3_HUM	Unmodified	999190	1233400	1137400	0	0	0	0	0	0
QKQLEDILVLAK	MACF1; MACF1; M/	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	896100	629270	790780	0	0	0	0	0	0
QKSEEPSVSIPFLQTALLR	CEP170; CEP170; CI	Q5SW79; H0YB6(	CE170_HUM	Unmodified	325930	253680	463590	0	0	0	0	0	0
QKTQEEGEERAESEQEAYLRED	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH_HUM	Unmodified	3068400	4125300	3260300	257970	127040	205410	0	0	0
QKVDLQSLPTR	DPY30	Q9C005	DPY30_HUM	Unmodified	6384600	5033900	5420100	0	0	0	0	0	0
QKVDSLLENLEK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	2520900	2586000	2066200	6117.3	0	0	0	0	0
QKVDSLLENLEKIEKEQSK	HNRNPCL2; HNRNP	B2RXH8; O60812	HNRC2_HUM	Unmodified	3146900	5933300	1149700	0	0	0	0	0	0
QKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Unmodified	12935000	7103700	10110000	0	0	0	0	0	0
QKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Methyl (KR)	1071300	171460	801500	0	0	0	0	0	0
QKVEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Deamidation (N)	2246900	1119600	2213700	0	0	0	0	0	0
QKVEGTEPTTAFNLFVGNLNFNKSAPELK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM/	Deamidation (N)	1085100	628940	1375300	0	0	0	0	0	0
QKVEPLRAELQEGAR	APOA1; APOA1	P02647; F8W696	APOA1_HUM	Unmodified	2812100	7070600	1016600	0	0	0	0	0	0
QKVVEKEAETER	ERLIN2; ERLIN1; ER	O94905; O75477;	ERLN2_HUM	Unmodified	433510	461460	303340	279660	336940	256710	17274	10965	0
QKYFELEVR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	1071000	1305700	1294100	0	0	0	0	0	0
QLAAEEER	PLEC	Q15149	PLEC_HUMA	Unmodified	1611200	928290	638680	147030	111980	123850	0	0	0
QLAALGQTEPLPAEAPWAR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2_HUM	Unmodified	1629900	1380600	1909200	0	0	0	0	0	0
QLADERSNRDELELELAENR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Unmodified	333750	550250	341860	0	0	0	0	0	0
QLADETLLK	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1_HUM	Unmodified	6408100	4784300	5603800	27502	0	60085	0	0	0
QLAEAHAQAK	PLEC	Q15149	PLEC_HUMA	Unmodified	199640	258370	281970	0	44062	43290	0	0	0
QLAEDFLR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Unmodified	3687600	2648700	3015900	0	0	22884	0	0	0
QLAEEDAAR	PLEC	Q15149	PLEC_HUMA	Unmodified	474190	422150	502130	26712	0	95742	0	11826	0
QLAEEDLAQQR	PLEC	Q15149	PLEC_HUMA	Unmodified	673940	690400	733160	0	0	0	0	0	0
QLAEKREHEKEVLQK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	0	7675200	8798500	0	0	0	0	0	0
QLAGEDMEISVKELR	CAPN1	P07384	CAN1_HUMA	Oxidation (M)	764840	0	0	0	0	0	0	0	0
QLAGILQVPLEER	VPS36; VPS36	Q86VN1; A0A3B7	VPS36_HUM	Unmodified	617310	798760	754350	0	0	0	0	0	0
QLALFLAR	ABHD16A; ABHD16	O95870; A0A0G2	ABHGA_HUM	Unmodified	600890	518360	634580	0	0	0	0	0	0
QLALWNPK	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C_HUM	Unmodified	8916200	9283300	9766400	38228	49604	0	0	8617.2	0
QLAPIWDK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	3485200	2924100	2995200	0	0	32856	0	0	0
QLAPIWDKLGETYKDHENIVIAK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	2658700	0	1958000	0	0	0	0	0	0
QLAPLLPSLAPSSAR	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	1512000	1744700	1748500	27160	27146	27951	0	0	0
QLAQALLVK	TNRC6C; TNRC6C	Q9HCJ0; A0A1B0	TNR6C_HUM	Unmodified	435300	425300	408460	0	0	0	0	0	0
QLAQIDGTLSTIEFQR	CHMP4B	Q9H444	CHM4B_HUM	Unmodified	1417300	2483100	1073000	0	0	0	0	0	0
QLAQIKEMVELPLRHPALFK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	1088000	710860	988330	0	0	0	0	0	0
QLASEDISHITPTQGFNIK	ARL3	P36405	ARL3_HUMA	Unmodified	5245700	2993000	4901300	0	0	0	0	0	0
QLDALLEALK	LAMB2	P55268	LAMB2_HUM	Unmodified	384080	645830	716270	0	0	0	0	0	0
QLDDKDEENQQSQLVEK	KIF5B	P33176	KINH_HUMA	Unmodified	1930900	1448900	2673000	0	0	0	0	0	0
QLDDKDEENQQSQLVEK	KIF5B	P33176	KINH_HUMA	Deamidation (N)	695120	737640	213110	0	0	0	0	0	0
QLDDLKVELSQLR	RPL35; RPL35	P42766; F2Z388	RL35_HUMA	Unmodified	2269400	1572700	2120600	0	0	0	0	0	0
QLDEPKLER	EIF4B; EIF4B; EIF4B	P23588; E7EX17;	IF4B_HUMA	Unmodified	1031900	1137600	1353000	118750	97278	95331	0	0	0
QLDETNALLRTESDTAAR	ROCK2; ROCK2	O75116; E9PF63	ROCK2_HUM	Unmodified	1096100	630090	1007700	316690	250320	185350	0	0	0
QLDFNSSKDVAVMQLR	COPA; COPA; COPA	P53621; A0A3B3	COPA_HUMA	Oxidation (M);Deai	1748200	1599500	0	0	0	0	0	0	30026
QLDMELISLKR	RCOR3; RCOR3; RC	Q9P2K3; H0YDD(	RCOR3_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
QLDNPAR	USP5	P45974	UBP5_HUMA	Unmodified	2547500	0	2424800	101260	0	185950	0	27179	29874
QLDQLSR	SCYL2; SCYL2; SCY	Q6P3W7; A0A0U	SCYL2_HUM	Unmodified	1083400	973050	1187700	39400	0	0	0	0	0
QLDTETNLHLNTK	TPR	P12270	TPR_HUMAN	Unmodified	698350	488330	486900	0	0	0	0	0	0
QLEAEADAIIQMVR	HUWE1	Q7Z6Z7	HUWE1_HUM	Oxidation (M)	525960	1191700	2783900	0	0	0	0	0	0
QLEAELGAER	SPR	P35270	SPRE_HUMA	Unmodified	526670	210250	219550	30526	0	0	0	0	0
QLEAIDQLHLEYAK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	0	809870	752500	0	0	0	0	0	0
QLEAIDQLHLEYAKR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	3836700	3894000	3660800	28009	17577	0	0	0	0
QLEEAEEEAQR	MYH9	P35579	MYH9_HUM/	Unmodified	8303700	5166600	8809000	0	28557	0	0	0	0
QLEEAEEEAQRANASR	MYH9	P35579	MYH9_HUM/	Unmodified	0	4465500	0	0	0	0	0	0	0
QLEEAEEEAQRANASR	MYH9	P35579	MYH9_HUM/	Deamidation (N)	0	1070100	1185600	0	0	17622	0	0	0
QLEEAEEEAQRANASRR	MYH9	P35579	MYH9_HUM/	Unmodified	1959700	0	0	0	0	0	0	0	0
QLEEAEEEASR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14_HUM	Unmodified	1213700	896160	833090	19012	0	0	0	0	0
QLEEAEEEASRAQAGR	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14_HUM	Unmodified	862580	863650	636490	0	0	0	0	0	0
QLEEAEEEATR	MYH10	P35580	MYH10_HUM	Unmodified	1322000	1782200	0	0	0	0	0	0	0
QLEEAEEEATRANASR	MYH10	P35580	MYH10_HUM	Unmodified	812370	810430	715010	134320	152840	125810	0	0	0
QLEEDIAAKEKLLR	TPM1	Q6ZN40	Q6ZN40_HUM	Unmodified	0	0	0	0	0	0	139580	0	88502
QLEEERNSLQDQLDEEMEAK	MYH11	P35749	MYH11_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
QLEEIQK	USF3	Q68DE3	USF3_HUMA	Unmodified	1111300	1329400	245850	6991.5	160860	123340	0	0	0
QLEEKDRVLK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Unmodified	684580	444130	820950	0	51077	31786	0	0	0
QLEEPGAGTPSPVR	NSUN5P2; NSUN5	Q63ZY6; Q96P11	NSN5C_HUM	Unmodified	0	0	0	0	0	0	0	0	0
QLEEQLR	UPF3A; CROCC; TP(	Q9H1J1; Q5TZA2	REN3A_HUM	Unmodified	0	2230400	0	0	0	0	0	0	0
QLEIAHEK	LRPAP1	P30533	AMRP_HUM	Unmodified	508760	0	401630	0	66405	0	0	0	0
QLELENLTTQETR	PTPN1; PTPN1	P18031; B4DSN5	PTN1_HUMA	Unmodified	2920300	1831500	2270700	68185	75959	0	0	0	0
QLELRQEEER	NONO; NONO; NON	O15233; A0A7Z\	NONO_HUM	Unmodified	5561100	4759900	4338800	0	0	0	0	0	0
QLEMSAEAER	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	935330	896440	953750	93438	127340	174150	0	0	0
QLEMSAEAERLK	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	603850	506340	512080	57518	78532	0	0	0	0
QLEPVYNSLAK	PDIA4; PDIA4	P13667; A0A499I	PDIA4_HUM/	Deamidation (N)	1328200	565370	529560	34426	0	30907	0	0	0
QLEPVYNSLAK	PDIA4; PDIA4	P13667; A0A499I	PDIA4_HUM/	Unmodified	1195800	661380	1268800	27925	29996	0	0	0	0
QLESEREALQQQHSVQVDQLR	IKBKG; IKBKG; IKB	Q9Y6K9; C9JN51	NEMO_HUM	Unmodified	808410	651760	921510	0	42564	15052	0	0	0
QLESLIR	MCM8; MCM4; MC9	Q9UJA3; P33991;	MCM8_HUM	Unmodified	6860600	5555300	7394500	0	0	9747.1	0	0	0
QLESLPATHIR	MTA1; MTA1	Q13330; E7ESY4	MTA1_HUM/	Unmodified	1611100	2046900	1873100	27497	85437	0	0	0	0
QLESMIR	MCM6	Q14566	MCM6_HUM	Oxidation (M)	0	5630800	5441200	0	0	0	0	0	0
QLESSQAR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4_HUMA	Unmodified	139110	126170	0	13551	0	21070	0	0	0
QLEVEPEEPEAENKHKPR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM_HUM	Unmodified	0	1612600	2283200	0	122710	128940	0	0	0
QLFDQVVK	RDX; EZR; MSN; RI	P35241; P15311; I	RADI_HUMA	Unmodified	3605800	3040000	3940000	40577	34452	40065	0	18904	0
QLFEEQAK	KARS1	Q15046	SYK_HUMAN	Unmodified	4047200	4098500	5617100	54109	0	70040	0	0	0
QLFEIDSVDTEGKGDIQQAR	BAG5	Q9UL15	BAG5_HUMA	Unmodified	0	0	1280400	0	0	0	0	0	0
QLFHPEQLITGK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	62750000	65975000	62923000	360920	385000	317460	58459	76140	47205
QLFHPEQLITGKEDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	109060000	85165000	132730000	548620	415310	173550	125970	44801	99814
QLFHPEQLITGKEDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	281420000	279620000	257420000	1755100	1583500	1084200	303610	204140	234650
QLFHPEQLITGKEDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	2 Deamidation (N)	55574000	34976000	52297000	102390	44364	29566	14552	0	0
QLFHPEQLITGKEDAANNYAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Methyl (KR);Deam	3309400	2349100	2864900	0	0	0	0	0	0
QLFLEPSQALGPPEPPEAR	PTCD1; ATP5MF-PT	O75127; G3V325	PTCD1_HUM	Unmodified	916700	0	971350	35152	25489	28938	0	0	0
QLFLGGVDR	SLC25A4; SLC25A4	P12235; V9GYG0	ADT1_HUMA	Unmodified	186530	914190	850760	39328	0	0	0	0	0
QLFLPSMR	RABIF	P47224	MSS4_HUMA	Oxidation (M)	1587800	1708900	1473600	109880	0	0	0	0	0
QLFLQTYAR	COPA; COPA; COPA	P53621; A0A3B3	COPA_HUMA	Unmodified	2580900	1964400	1264800	0	15251	20451	0	0	0
QLGGSVELVDIGK	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2_HUM	Unmodified	1809100	1969600	1947800	171600	262000	101250	0	0	0
QLGLEGAAR	SRBD1	Q8N5C6	SRBD1_HUM	Unmodified	2109800	2120900	2182700	60703	57303	71471	0	8184.7	0
QLGLPTALK	MRTO4	Q9UKD2	MRT4_HUMA	Unmodified	663860	912730	700030	0	0	0	0	0	0
QLGLVVCR	LSM7; LSM7	Q9UK45; A0A087	LSM7_HUMA	Unmodified	1711200	1706600	1636800	96850	93124	103950	10929	0	0
QLGTVQQVISER	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	3077200	2356100	3450900	79836	47496	57949	42463	0	0
QLHDDYFYHDEL	RCN2; RCN2	Q14257; A8MXP9	RCN2_HUMA	Unmodified	6730900	4970400	6612300	223480	229990	207250	15756	0	17455
QLHDTLENR	SNX16; SNX16	P57768; A0A0C4	SNX16_HUM	Unmodified	0	1195900	0	0	0	0	0	0	0
QLHLNQLIR	MCM2; MCM2	P49736; H0YSE4	MCM2_HUM	Unmodified	824170	948540	1130600	0	0	0	0	0	0
QLIDITGK	UBAP2L; UBAP2L; I	Q14157; Q5VU80	UBP2L_HUM	Unmodified	274980	316490	305730	0	0	7429.6	0	0	0
QLIMANPQMQQLIQR	UBQLN2; UBQLN1	Q9UHD9; Q9UM)	UBQL2_HUM	2 Oxidation (M)	1274800	5256300	5130300	232430	137090	203620	0	0	0
QLIVANAGDSR	PPM1G	O15355	PPM1G_HUM	Unmodified	1013200	948770	1155800	0	0	0	0	0	0
QLKQENNHLMEMKMNLEKQNAELR	ROCK2; ROCK2; RO	O75116; Q14DU5	ROCK2_HUM	Methyl (KR);4 Dea	0	0	0	0	0	63808	0	268570	216670	145780
QLLAGGIAGAVSR	SLC25A24; SLC25A2	Q6NUK1; A0A3B	SCMC1_HUM	Unmodified	4801000	5376300	6129800	61308	77093	62823	0	0	0
QLLDDEEQLTAK	ESYT1	Q9BSJ8	ESYT1_HUM	Unmodified	1048200	1136600	983120	253590	218680	149550	0	0	0
QLLDQVEQIQK	TMED4	Q7Z7H5	TMED4_HUM	Unmodified	1463000	0	1691300	0	0	0	0	0	0
QLLDQVEQIQKEQDYQR	TMED4	Q7Z7H5	TMED4_HUM	Unmodified	3216400	990600	2087600	0	0	0	0	0	0
QLLEDIQK	CYTH4; CYTH4; CY	Q9UIA0; B1AHH4	CYH4_HUMA	Unmodified	2064300	0	0	0	0	0	0	0	0
QLLEELER	ARGLU1	Q9NWB6	ARGL1_HUM	Unmodified	0	0	1224500	0	0	0	0	0	0
QLLHNFPPDQLTSSGAPFWSGPK	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUMA	Unmodified	3132800	2789800	2204800	0	0	0	0	0	0

QLLLESQSQLDAAK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	1348100	1430000	1146000	0	24966	21618	0	0	0
QLLLTSPVPGR	SRBD1	Q8NSC6	SRBD1	HUM	Unmodified	1134000	1177500	666600	0	0	0	0	0	0
QLLMVGGLDRYFQVAR	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM	HUM	Oxidation (M)	571490	2638100	1887300	0	0	0	0	0	0
QLLNEENLRK	ATAD3A; ATAD3B;	Q9NVI7; Q5T9A4	ATD3A	HUM	Deamidation (N)	5269100	4991200	4891400	205770	192580	174660	55608	28954	0
QLLPSGNGRSYGLGSEQR	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	Deamidation (N)	928430	852180	778560	0	27833	0	0	0	0
QLLQAALR	CC2D1A; CC2D1A	Q6P1N0; A0A7P0	C2D1A	HUM	Unmodified	399580	375710	0	0	0	0	0	0	0
QLLQANPILEAFGNAK	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14	HUM	Unmodified	980400	706210	420950	0	0	0	0	0	0
QLLQANPILEAFGNAK	MYH14; MYH9; MY	Q7Z406; P35579;	MYH14	HUM	Deamidation (N)	6215700	5475500	5276900	0	0	0	0	0	0
QLLQANPILESFGNAK	MYH10	P35580	MYH10	HUM	Deamidation (N)	1193200	1313100	1816000	0	0	0	0	0	0
QLLQEQESVK	DSP	P15924	DESP	HUM	Unmodified	1085300	1514900	1644000	0	0	0	0	0	0
QLLQEQESVKQAHLR	DSP	P15924	DESP	HUM	Unmodified	1013800	863400	0	0	0	0	0	0	0
QLLSASYEFQR	MAIP1	Q8WWC4	MAIP1	HUM	Unmodified	814120	513920	739730	0	0	0	0	0	0
QLLSNPEMMVQIMENPFVQSMLSNPDLMR	UBQLN1	Q9UMX0	UBQL1	HUM	5 Oxidation (M)	9658700	7125400	7671400	0	0	0	0	0	0
QLLTLSSELSQAR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Unmodified	4513900	3683300	3927000	103690	102200	85791	0	13031	0
QLLTLSSELSQARDENKR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Unmodified	4328600	4425100	3894300	334890	0	0	0	0	0
QLLTLSSELSQARDENKR	EZR; EZR	P15311; E7EQR4	EZRI	HUM	Deamidation (N)	1054600	879340	1585600	0	0	0	0	0	0
QLLTPEHVLR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	1962100	1721200	1391600	235000	192350	0	0	0	0
QLMETPANEMTPTR	LAP3; LAP3	P28838; H0Y9Q1	AMPL	HUM	2 Oxidation (M)	2575400	2289900	2720600	0	0	0	0	0	0
QLMETPANEMTPTR	LAP3; LAP3	P28838; H0Y9Q1	AMPL	HUM	2 Oxidation (M);De	1391900	1056600	962080	0	0	12801	0	0	0
QLMHQLPIYDQDPSR	LMCD1; LMCD1; LN	Q9NZU5; H7C3D:	LMCD1	HUM	Oxidation (M)	503960	434220	452060	0	0	0	0	0	24665
QLMHSGHPSEKEIK	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Oxidation (M)	930580	342420	400960	0	0	0	0	0	0
QLNENKQERDK	U2AF2	P26368	U2AF2	HUM	2 Methyl (KR);Dea	0	0	0	0	0	0	0	0	0
QLNGGPDVIK	LARS2; LARS2; LAI	Q15031; A0A494	SYLM	HUM	Unmodified	0	0	2293200	0	0	0	0	0	0
QLNPESIRPGGPGGLSR	DHX30; DHX30	Q7L2E3; H7BXY:	DHX30	HUM	Unmodified	2273400	2172200	2382600	158520	135680	113360	28496	21977	0
QLNQVNFTLPK	RAB11FIP1; RAB11I	Q6WKZ4; E7EX4	RFIP1	HUM	Unmodified	4259300	1840500	2723700	0	0	0	0	0	0
QLPADSPGTPFLDFPVTDSPR	DOP1B	Q9Y3R5	DOP2	HUM	Unmodified	1068400	878690	1244000	20143	17468	0	29558	9642.8	0
QLPAMTALQTLHLR	FLII; FLII; FLII; FLII;	Q13045; J3QLR6;	FLII	HUM	AN Oxidation (M)	3639700	1676900	1639000	0	0	0	0	0	0
QLPDKWQHDLFDSGFGGGAGVETGGK	ALYREF; ALYREF	Q86V81; E9PB61	THOC4	HUM	Unmodified	9568600	6762600	7546400	0	0	0	0	0	0
QLPEEDFRQPPEEDLR	RBM12B	Q8IXT5	RB12B	HUM	Unmodified	0	1406700	0	0	0	0	0	0	0
QLPFRGDEGIFEESFIEER	SNX12; SNX12	Q9UMY4; A0A08	SNX12	HUM	Unmodified	776460	1649600	2047400	0	0	0	0	0	0
QLPLVKPYLR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUM	Unmodified	13227000	11869000	13665000	263720	197340	276110	0	0	0
QLPPNGDPNFKLFIIR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	Deamidation (N)	2978100	2707300	4708800	13181	0	0	0	0	0
QLPPNGDPNFKLFIIR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2	HUM	2 Deamidation (N)	438870	674650	358980	0	0	0	0	0	0
QLPSAGPDKNLVTGDHIPTPQDLPQR	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA	HUM	Unmodified	0	1239900	0	0	0	0	0	0	0
QLPSLACKYPVSSR	TMPO	P42166	LAP2A	HUM	Unmodified	586240	725690	824140	0	0	0	0	0	0
QLPTLMAQPPQTVVQVLAVK	EMSY; EMSY; EMS	Q7Z589; E9PMC9	EMSY	HUM	Oxidation (M)	1260200	1125800	1228700	0	0	0	0	0	0
QLQAETEPIVK	EIF3E; EIF3E; EIF3E;	P60228; A0A161	EIF3E	HUM	Unmodified	2096900	2133900	2049500	0	0	0	0	0	0
QLQALSSELAQAR	RDX; RDX; RDX	P35241; A0A2R8	RADI	HUM	Unmodified	740260	361250	325590	0	0	0	0	0	0
QLQDEMLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Oxidation (M)	1300300	1372200	2452300	0	0	40927	0	0	0
QLQDIATLADQRR	IPO7	O95373	IPO7	HUM	Unmodified	742840	548530	550780	0	0	0	0	0	0
QLQEELAEHQVPVEK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	1226200	0	0	0	0	0	0	0	0
QLQEERPELSESELTR	UBTF; UBTF; UBTF	P17480; E9PLT2;	UBF1	HUM	Unmodified	541650	0	887350	0	0	0	0	0	0
QLQEETPPGGPLTEALPPAR	NDUFB9; NDUFB9;	Q9Y6M9; A0A7I2	NDUB9	HUM	Unmodified	1303400	1178700	1203800	25691	0	28441	0	0	0
QLQEETPPGGPLTEALPPARK	NDUFB9; NDUFB9;	Q9Y6M9; A0A7I2	NDUB9	HUM	Unmodified	3643300	4275200	4024100	74560	68040	77235	0	0	0
QLQEQIR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Unmodified	884920	949480	828520	0	0	0	0	0	0
QLQEQQR	ENAH; ENAH; ENAI	Q8N8S7; A0A0U1	ENAH	HUM	Unmodified	127680	1288100	1279800	50117	42283	52674	0	0	0
QLQFYTEAAR	CC2D1A; CC2D1A; (	Q6P1N0; A0A7P0	C2D1A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
QLQGFPFYGKPMR	SNRPB2	P08579	RU2B	HUM	Oxidation (M)	1298300	1235600	1348900	29439	33475	25380	0	0	0
QLQGPEKEPPKPEQVESR	PLIN3; PLIN3	O60664; K7ERZ3	PLIN3	HUM	Unmodified	1885000	1071400	1341500	120480	124640	197660	0	0	0
QLQLAQEAAQK	PLEC	Q15149	PLEC	HUM	Unmodified	635140	581960	599790	0	0	0	0	0	0
QLQLAQEAAQKR	PLEC	Q15149	PLEC	HUM	Unmodified	1316400	1571600	1453100	264850	119490	144470	0	18172	0
QLQLDEDAELERQLHEDEEFAR	RFC1; RFC1	P35251; A0A1W2	RFC1	HUM	Unmodified	585410	336940	0	0	0	0	0	0	0
QLQLEAEEQR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	0	0	0	0	0	0	0	0	0
QLQMDVIR	TWF1	Q12792	TWF1	HUM	Oxidation (M)	924190	1037500	947960	48325	61378	46310	0	0	0
QLQNIIQATSR	DSP	P15924	DESP	HUM	Unmodified	8063600	7829800	9887700	0	130130	104260	0	0	0
QLQQAQAAGAEQEVEK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUM	Unmodified	5504300	4446300	3718100	0	0	0	0	0	0
QLQQAQAAGAEQEVEKFTK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUM	Unmodified	4484100	3836200	4146400	0	0	0	0	0	0
QLQQAQAAGAEQEVEKFTKR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUM	Unmodified	0	1815300	1837400	0	0	0	0	0	0
QLQQENR	SMC3	Q9UQE7	SMC3	HUM	Unmodified	1610300	0	1050600	113560	0	82980	0	0	0
QLQQLQEGTLQEYQKR	SUDS3	Q9H7L9	SDS3	HUM	Unmodified	1621100	1296500	1078900	0	0	0	0	0	0
QLQQLQQLR	SART1	O43290	SNUT1	HUM	Unmodified	1062200	991570	908080	0	0	0	0	0	0
QLQSEQPQTAAAAR	ATP6V1H; ATP6V1F	Q9UJ12; G3V126	VATH	HUM	Unmodified	1332600	1208700	1315600	0	0	0	0	0	0
QLQSFGMDVTLLEAR	KDM1A; KDM1A	O60341; R4GMQ	KDM1A	HUM	Oxidation (M)	2917500	2348300	1944600	0	0	0	0	0	0
QLQVVPLFGDMQIELAR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Oxidation (M)	683130	617290	0	0	0	0	0	0	0
QLRDAEVERDEER	MYH14; MYH14	Q7Z406; A1L2Z2	MYH14	HUM	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
QLRFEDVVNQSSPK	TIAL1	Q01085	TIAR	HUM	Unmodified	455150	532680	501500	35255	36910	35084	0	0	0
QLSFISPPTPQPK	PRPF3	O43395	PRPF3	HUM	Unmodified	1187400	1549600	880270	129310	67528	0	0	0	0
QLSLPQQEAQK	AP2A1	O95782	AP2A1	HUM	Unmodified	4763800	3917700	4111600	0	0	0	0	0	0
QLSLTPR	MRPL39; MRPL39	Q9NYK5; C9JG87	RM39	HUM	Unmodified	3118200	3003000	3182400	238600	265450	278250	22851	21257	23356
QLSQLGQK	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1	HUM	Unmodified	1243100	1234500	1351800	101970	176850	109040	0	10602	0
QLSQSLLPAIVELAEDAK	PPP2R1A; PPP2R1B;	P30153; P30154;	2AAA	HUM	Unmodified	174460	0	76572	0	0	0	0	0	0
QLSQSLLPAIVELAEDAKWR	PPP2R1A; PPP2R1B;	P30153; P30154;	2AAA	HUM	Unmodified	91305	0	0	0	0	0	0	0	0
QLSSEELEQFQK	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUM	Unmodified	0	797430	1349400	0	0	0	0	0	0
QLSSGVSEIR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	35058000	36976000	35070000	2114600	2410400	2912400	299310	249150	0
QLSSGVSEIRHTADR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	582190	0	0	172390	0	0	0	0	0
QLSVPIPGGSNGDIQQVGVIR	TRIM33	Q9UPN9	TRI33	HUM	Deamidation (N)	1288300	1315900	1243800	0	0	0	0	0	0
QLTEMLPSILNQLGADSLTSLRR	BTF3; BTF3; BTF3; I	P20290; H0Y9Y1;	BTF3	HUM	Oxidation (M)	1000300	0	0	0	0	0	0	0	0
QLTFEEIAK	PSMD13; PSMD13; I	Q9UNM6; A0A08	PSD13	HUM	Unmodified	1658900	1287100	2074800	0	65017	41990	0	0	0
QLTLEQLHAVEISAVHSR	NUDT16L1; NUDT1(	Q9BRJ7; K7ENA:	TIRR	HUM	Unmodified	1406400	590810	1131200	0	0	0	0	0	0
QLTNPYGSWR	MRPL45; MRPL45; I	Q9BRJ2; A0A087	RM45	HUM	Unmodified	769230	904500	598050	0	0	0	0	0	0
QLTPPEGSSK	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM	Unmodified	893700	738360	668260	34748	44013	67477	0	0	0
QLTSYVGSVRPLVTELDPDAPIR	NUP107	P57740	NU107	HUM	Unmodified	2289200	1728600	1872100	0	0	0	0	0	0
QLTVQMMQNPQILAALQER	NAP1L1; NAP1L1; N	P55209; F8VUX1;	NP1L1	HUM	2 Oxidation (M)	8160400	8367300	7838400	21099	0	0	0	0	0
QLVAEQVTYQR	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	1185100	1254200	1145300	0	0	0	0	0	0
QLVAREQEITAVQAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	720820	762100	864520	193500	203770	192410	0	25406	25464
QLVARPDVVEMHDVTAQDPK	SF3B2; SF3B2	Q13435; E9PPJ0	SF3B2	HUM	Oxidation (M)	2074900	2695800	3107900	0	0	0	0	0	0
QLVEQVEQIQK	TMED9	Q9BVK6	TMED9	HUM	Unmodified	2885100	2595100	2098800	0	0	0	0	0	0
QLVEQVEQIQKEQNYQR	TMED9	Q9BVK6	TMED9	HUM	Unmodified	6336700	5342000	5151200	0	0	0	0	0	0
QLVSDEDKAQLASK	MRPL3; MRPL3; MR	P09001; E9PF06;	RM03	HUM	Unmodified	797980	1103300	871800	0	0	0	0	0	0
QLVTETLQQASR	EMSY; EMSY; EMS	Q7Z589; H0YCS3	EMSY	HUM	Unmodified	600440	607060	581080	0	0	0	0	0	0
QLVTSMDVTETNVFFYPR	SEC24C; SEC24C	P53992; G5EA31	SC24C	HUM	Oxidation (M)	3900600	3433900	714820	0	0	0	0	0	0
QLYETTDTTTR	XPO7; XPO7; XPO7	Q9UIA9; H0YBE1	XPO7	HUM	Unmodified	493670	428840	568930	0	0	0	0	0	0
QLYHLGVVEAYSGLTK	DHX9	Q08211	DHX9	HUM	Unmodified	1937900	2141000	1719800	0	0	0	0	0	0
QLYLER	ACTR2; ACTR2	P61160; F5H6T1	ARP2	HUM	Unmodified	1760400	1776600	1415600	0	0	0	0	0	0
QLYLPMLFK	XPO1; XPO1; XPO1	O14980; A0A7I2	XPO1	HUM	Oxidation (M)	0	1042800	0	0	0	0	0	0	0
QMADTGKLNTLLQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M)	21184000	21249000	23655000	684360	605610	493320	0	0	0
QMADTGKLNTLLQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M);Dea	8674800	7874400	7251300	157530	0	148400	0	0	0
QMADTGKLNTLLQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M);Met	2649000	0	0	0	0	42972	0	0	0
QMAFMLGR	PSMD2	Q13200	PSMD2	HUM	2 Oxidation (M)	1075700	927480	821360	104220	64199	73747	0	0	0
QMDTNNDGKLSLEEFIR	HPCA; HPCAL1	P84074; P37235	HPCA	HUM	Oxidation (M);Dea	308840	331550	841970	0	0	0	0	0	0
QMDTNNDGKLSLEEFIR	HPCA; HPCAL1	P84074; P37235	HPCA	HUM	Oxidation (M);2 De	1014700	726260	0	0	0	0	0	0	0
QMEKDETVSDCSPHIANIGR	CAPZB; CAPZB; CA	P47756; B1AK88;	CAPZB	HUM	Oxidation (M)	2692100	0	2946200	78772	86294	53746	0	0	0
QMEQISQFLQAAER	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	13242000	11958000	12712000	36609	16502	68186	25250	22225	20523
QMEVAQANR	DCTN1; DCTN1; DC	Q14203; Q6AWB	DCTN1	HUM	Oxidation (M)	0	164360	0	0	0	0	0	0	0
QMFFVISLDPPIK	SSRP1; SSRP1	Q08945; E9PMD4	SSRP1	HUM	Oxidation (M)	0	160650	257880	0	0	0	0	0	0
QMFGQFGK	RBFOX2; RBFOX1; I	O43251; Q9NWB	RFOX2	HUM	Oxidation (M)	1048400	1011600	967680	0	0	0	0	0	0
QMGFPLIYVEAEQVEDDRLLR	NPEPPS; NPEPPS; N	P55786; A0A7I2	PSA	HUMAN	Oxidation (M)	1629800	0	996630	0	0	0	0	0	0
QMHWPPG	HINT1	P49773	HINT1	HUM	Oxidation (M)	2529900	1998600	1764600	107400	103560	129270	0	0	10510
QMIGYNLATK	SUCLG2; SUCLG2; S	Q96I99; E9PDQ8;	SUCB2	HUM	Oxidation (M)	2230800	1750500	1787000	111480	88450	142160	0	0	0
QMLQGKPLADTMRPDTLQDYFGQSK	WRNIP1	Q96S55	WRIP1	HUM	2 Oxidation (M)	1341900	2654200	2884700	0	0	0	0	0	0
QMLSDLFTAR	DOP1B	Q9Y3R5	DOP2	HUM	Oxidation (M)	0	246320	364400	0	0	0	0	0	0
QMPSESLDPAFSPR	ABRAXAS2	Q15018	ABRX2	HUM	Oxidation (M)	921880	1703700	910780	200960	280390	232290	0	0	0
QMQQIR	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0	HUM	Oxidation (M)	4093200	6581700	17273000	171270	171830	304380	0	0	0
QMQSSFTSSEQELER	KTN1; KTN1; KTN1;	Q86UP2; G3V5P0	KTN1	HUM	Oxidation (M)	1865900	2104100	1631100	48666	90823	71691	0	0	0
QMREMEENFAVEAANYQDTIGR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	2 Oxidation (M)	595140	876130	0	172530	128200	156810	0	0	0
QMREMEENFAVEAANYQDTIGR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUM	2 Oxidation (M);De	1066000	0	0	236400	195350	0	0	0	0
QMSGAQIK	PCBP1; PCBP3; PCB	Q15365; P57721;	PCBP1	HUM	Oxidation (M)	0	6587500	9613900	56718	0	0	0	0	0
QMSLLLR	ATP5F1A	P25705	ATPA	HUM	Oxidation (M)	0	0	12495000	0	0	0	0	0	0
QMVEHGGFYR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	1736200	2427700	1663900	0	0	0	0	0	0
QMVETELK	YWHAE; YWHAE	P62258; K7EIT4	1433E	HUM	Oxidation (M)	8486800	10796000	7668600	0	0	45154	0	0	0
QMVIDVLHPGK	RPS24; RPS24; RPS2	P62847; A0A2R8	RS24	HUM	Oxidation (M)	1652000	1242300	1140600	18724	23942	25312	0	0	0
QNADPQAVTMPATETKK	MAGED2; MAGED2;	Q9UNF1; Q5H907	MAGD2	HUM	Oxidation (M)	1643000	939170	1042900	0	232430	0	0	0	0
QNFHMEQLKYAELRAR	SMARCC1	Q92922	SMRC1	HUM	Deamidation (N)	0	302800	308550	0	0	0	0	0	0
QNFTEPTAIQAQGWPVALSGLDMVGVAQTGSGK	DDX5; DDX5; DDX5	P17844; A0A7I2	DDX5	HUM	Oxidation (M)	1581000	1285100	853310	0	0	0	0	0	0
QNKLEQVEKELLR	ATP5PO; ATP5PO; A	P48047; H7C086;	ATPO	HUM	Unmodified	1135700	0	810490	0	0	0	0	0	0
QNKTEAEQQITEVFVLAER	MKI67	P46013	KI67	HUM	Deamidation (N)	281890	398830	287470	0	0	0	0	0	0
QNLAMTGEVSLTGK	LONP1; LONP1; LOI	P36776; K7ERR6;	LONM	HUM	Oxidation (M)	1231600	983020	1038800	0	0	0	0	0	0
QNLFQEAEEFLYR	PSME2; PSME2	Q9UL46; A0A087	PSME2	HUM	Unmodified	329050	123960	283810	0	0	0	0	0	0
QNLLSQSHAYQQFLR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	2917400	1900400	2133900	0	0	0	0	0	0
QNLLSVGDYR	SMARCA5	O60264	SMCA5	HUM	Unmodified	1782400	877770	1697800	0	14330	22278	0	0	0
QNLSQFEAQAR	CPSF7; CPSF7; CPSI	Q8N684; F5H6M(	CPSF7	HUM	Unmodified	5492400	4357800	6744200	347350	335290	300150	0	0	0
QNPFWWTHQR	PRPF8; PRPF8	Q6P2Q9; I3L3Z8	PRP8	HUM	Unmodified	697570	587120	687450	0	0	0	0	0	0

QNQFYDTQVIK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	1073000	717870	594040	0	50739	0	0	0	0
QNQFYDTQVIKQENESGYER	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Unmodified	1497300	1430800	470150	115420	144900	112260	0	0	0
QNQFYDTQVIKQENESGYER	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Deamidation (N)	965650	1011800	1320300	60373	0	74643	0	0	0
QNRDFDKLLKHYEAK	RASGRF1	Q13972	RGRF1_HUM	Deamidation (N)	0	1895300	0	0	0	138740	0	0	0
QNSQLPAQVQNGPSQEELEIQRR	ENAH; ENAH; ENAI	Q8NBS7; A0A0U1	ENAH_HUM	2 Deamidation (N)	773210	1169300	0	0	0	0	0	0	0
QNTFLVLR	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM_HUM	Unmodified	667160	553060	587030	0	0	8372.9	0	0	0
QNYHQDSEAAINR	FTH1; FTH1; FTH1;	P02794; E9PKY7;	FRIH_HUMA	Unmodified	465260	0	471830	202370	203350	171770	0	0	0
QPAEHLQLLEEAAK	MCM5; MCM5	P33992; B1AHA9	MCM5_HUM	Unmodified	1561200	1275400	1035400	0	0	0	0	0	0
QPAENVNQYLTDPK	UBA1; UBA1	P22314; Q5JRR6	UBA1_HUM	Unmodified	1487200	0	1834200	0	0	0	0	0	0
QPAIISQLDPVNER	DHX9	Q08211	DHX9_HUMA	Unmodified	6105700	5047100	6598600	23875	23094	46726	0	0	0
QPDSGISSIR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	4045900	3418900	3737400	0	226420	246540	0	0	0
QPEYLDATGGTLHPYQMEGLNWLR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M)	2989100	1241700	2126500	0	0	0	0	0	0
QPFVQGLALYTPVVLPR	AGT; AGT; AGT; AG	P01019; A0A7P0	ANGT_HUM	Unmodified	434090	485580	531470	0	0	0	0	0	0
QPILDAIEAKK	STK4; STK4	Q13043; F5H5B4	STK4_HUMA	Unmodified	1842900	0	2087800	0	0	0	0	0	0
QPLGATSGASLK	NCOA5	Q9HCD5	NCOA5_HUM	Unmodified	1815500	1673200	1494000	106020	124890	54804	0	0	0
QPPLLGDHPAEYGEGR	HNRNPL	A0A3B3ITJ4	A0A3B3ITJ4	Unmodified	1510500	1185900	1341800	0	0	0	0	0	0
QPSEEEIIK	PEA15; PEA15	Q15121; B1AKZ5	PEA15_HUM	Unmodified	1080600	1385900	0	0	0	0	0	0	0
QPSEMSARMKLTR	N/A	N/A	N/A	Oxidation (M)	804780	995620	1199600	0	0	0	0	0	0
QPSQGPTFGIK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	1003000	0	1117300	0	0	0	0	0	0
QPSQGPTFGVK	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM_HUMA	Unmodified	354300	217960	246920	0	0	0	0	0	0
QPSWDPSPVSSTVPAPSPLSAAAVSPSK	RTN4; RTN4	Q9NQC3; F8W91	RTN4_HUMA	Unmodified	4449200	3316300	4549900	0	0	0	0	0	0
QPTIFQNK	RPS11; RPS11; RPS1	P62280; M0R1H6	RS11_HUMA	Unmodified	2000600	2412600	1593800	0	0	0	0	0	0
QPTPPFFGR	RBM14	Q96PK6	RBM14_HUM	Unmodified	5129000	2881600	4316900	0	0	0	0	0	0
QPTPPSEAAASK	KTN1	Q86UP2	KTN1_HUMA	Unmodified	386750	389940	445680	276950	251190	236260	0	0	0
QPVLSQTEAR	PSMB4	P28070	PSB4_HUMA	Unmodified	2245400	2395600	2278400	29163	0	0	0	0	0
QPVTGTEGAFYR	LMCD1; LMCD1; LM	Q9NZU5; H7C3D	LMCD1_HUM	Unmodified	0	590540	790070	58641	0	0	0	0	0
QPYAVSELAGHQTSAESWGTGR	RPL4; RPL4; RPL4	P36578; H3BU31	RL4_HUMAN	Unmodified	4692100	5185000	5685300	59372	0	40909	0	0	0
QQAAYYAQTSPQGMPQHPPAPQGQ	FUBP1	Q96AE4	FUBP1_HUM	Oxidation (M)	9120700	8998400	9624400	0	0	130250	0	0	0
QQAIELTQEEPYSDIIATPGPR	RAD21; RAD21; RAI	O60216; E5RG18	RAD21_HUM	Unmodified	1400200	1413000	1689400	0	0	0	0	0	0
QQASEADAAAATFR	GALT; GALT; GALT	P07902; G3V223	GALT_HUMA	Unmodified	660050	702370	1152100	0	0	0	0	0	0
QQDVLGFLEANK	SH3BGRL	O75368	SH3L1_HUM	Unmodified	2576200	2011500	0	0	0	0	0	0	0
QQEELLAEENQR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1044000	578140	878950	0	0	0	0	0	0
QQEGESR	LDHA; LDHB; LDH/	P00338; P07195; I	LDHA_HUM	Unmodified	0	403030	135910	0	0	0	0	0	0
QQEGESRLNLVQR	LDHA; LDHB; LDH/	P00338; P07195; I	LDHA_HUM	Unmodified	27137000	24786000	22703000	207860	209390	221680	0	0	0
QQEGFKGTFPDAR	NONO; NONO; NON	Q15233; A0A7Z	NONO_HUM	Unmodified	17106000	17444000	19282000	993660	913640	909240	0	0	30303
QQEGFKGTFPDAREQEIR	NONO; NONO; NON	Q15233; A0A7Z	NONO_HUM	Unmodified	4502100	8013200	28601000	935380	312620	473800	0	0	0
QQEIEEK	ARGLU1	Q9NWB6	ARGL1_HUM	Unmodified	250220	324460	470820	0	0	0	0	0	0
QQELDLAAEQHR	TRIO; TRIO; TRIO; T	O75962; E7EPJ7;	TRIO_HUMA	Unmodified	77692	52210	71518	0	0	0	0	0	0
QQEQADSLER	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	1280800	1343500	1405500	0	149210	0	0	0	0
QQEQQQQQVAR	GOLIM4; GOLIM4	O00461; F8W785	GOLI4_HUM	Unmodified	775850	219820	202500	0	0	13928	0	0	0
QQEVETELK	SNRNP70; SNRNP70	P08621; M0QX04	RU17_HUMA	Unmodified	2175500	1530800	2060600	47635	49546	37672	0	0	0
QQEVETELKMWDPHNDPNAQGDAFK	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Oxidation (M)	0	3111800	0	0	0	0	0	0	0
QQEVIADK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
QQFDLENK	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUM	Unmodified	2148400	1469100	0	0	0	0	0	0	0
QQGDHSLKEHELLEQQKR	SF3B2; SF3B2	Q13435; H0YCG1	SF3B2_HUM	Unmodified	2068100	1345700	0	145300	0	90241	0	0	0
QQGLASYDYVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1012800	781190	778670	32708	53374	0	0	0	0
QQGPPTPFDFLGR	PPP1R13L	Q8WUF5	IASPP_HUM	Unmodified	1249000	2923700	1409900	34269	0	16173	0	0	0
QQGRNYIVEDGDIIFFK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1_HUMA	Deamidation (N)	348120	303560	295510	0	0	0	0	0	0
QQIAEIEKQTK	PRPF8	Q6P2Q9	PRP8_HUMA	Unmodified	3222900	2415700	4161700	135770	175680	187470	0	0	0
QQIAEIEKQTKEQSQLTATQTR	PRPF8	Q6P2Q9	PRP8_HUMA	Unmodified	744300	649670	988570	529520	0	0	0	0	0
QQIANLDK	USP39; USP39; USP3	Q53GS9; C9J0X5;	SNUT2_HUM	Unmodified	949850	567650	691590	0	21954	0	0	0	0
QQIANLDKQAK	USP39; USP39; USP3	Q53GS9; C9J0X5;	SNUT2_HUM	Unmodified	902000	869480	950040	0	0	0	0	0	0
QQIMQLK	GPC1; GPC1; GPC1	P35052; H7C410;	GPC1_HUMA	Oxidation (M)	0	2653300	0	0	0	0	0	0	0
QQINEMHLLIQQAR	EXOSC10	Q01780	EXOSX_HUM	Oxidation (M);Deai	396150	310690	371890	0	0	0	0	0	0
QQIQSIQQQSIER	SNU13; SNU13; SNU	P55769; A0A3B3I	NH2L1_HUM	Unmodified	4776900	4998400	5700800	0	0	0	0	0	0
QQISLATQMVR	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE_HUMA	Oxidation (M)	3811000	4585400	4014000	0	0	0	0	0	0
QQKSDPIQEIRDLAEITTLDR	ERP44	Q9BS26	ERP44_HUM	Unmodified	7890900	5612000	5309700	0	0	0	0	0	0
QQLAQYQQQQSQASAPSTSR	WTAP	Q15007	FL2D_HUMA	Unmodified	1037800	1036400	1060000	0	28688	0	0	0	0
QQLDSCVTK	FAM136A; FAM136	Q96C01; E7EQY1	F136A_HUM	Unmodified	1103600	918360	1036100	0	0	0	0	0	0
QQLDSFDEFIQMSVQR	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2_HUMA	Oxidation (M)	1923000	2025100	1614600	0	0	0	0	0	0
QQLEELAR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUM	Unmodified	749070	842160	614960	0	34629	0	36051	0	0
QQLEQR	KTN1	Q86UP2	KTN1_HUMA	Unmodified	650340	1080000	825630	0	0	0	0	0	0
QQLETEK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	0	0	2951600	16578	22037	0	0	0	0
QQLGTAVELEMAK	TMOD3; TMOD3; TM	Q9NYL9; H0YKU	TMOD3_HUM	Oxidation (M)	1479600	1277800	1085700	76354	74447	95411	0	0	0
QQLLIGAYAK	CCT7	Q99832	TCPH_HUMA	Unmodified	2472600	2255000	2014200	0	0	0	0	0	0
QQLPTFLQQMQNPDTLSAMSNPR	UBQLN1; UBQLN1	Q9UMX0; H0YE2	UBQL1_HUM	2 Oxidation (M)	5421500	4488700	4556400	34310	0	0	0	0	0
QQLSAEELDAQLDAYNAR	ALYREF; ALYREF	Q86V81; E9PB61	THOC4_HUM	Unmodified	1762900	1700000	1795700	22434	0	0	0	0	0
QQLSAEELDAQLDAYNARMDTS	ALYREF; ALYREF	Q86V81; E9PB61	THOC4_HUM	Oxidation (M)	1338800	1253300	1616900	48816	0	0	0	0	0
QQLSAEELDAQLDAYNARMDTS	ALYREF; ALYREF	Q86V81; E9PB61	THOC4_HUM	Oxidation (M);Deai	882190	899920	0	0	0	0	0	0	0
QQMLENQMEVR	SPTBN1	Q01082	SPTB2_HUM	2 Oxidation (M)	512960	422930	635060	0	28505	0	0	0	0
QQMNPKGNRMMARK	DBT	A0A7P0Z494	A0A7P0Z494	3 Oxidation (M);2 I	0	0	108120	1094100	1008700	830230	266860	208890	120790
QQMQDFFLAHKDEEWFR	SRRT	Q9BXP5	SRRT_HUMA	Oxidation (M)	4370300	5587100	3733000	0	0	0	0	0	0
QQNELAELHANLAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	8319100	9440600	9820800	217050	184500	135550	14990	0	12265
QQNELAELHANLAR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Deamidation (N)	3222600	932690	3741100	57704	22790	31284	0	0	0
QQNLPVTR	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1_HUM	Unmodified	1988100	1283300	1914100	29288	36325	32739	0	0	0
QQNQELQEQLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	718470	834930	645670	0	0	0	0	0	0
QQPDTEAVLNGKGLGTGTLYIAESR	CLNS1A; CLNS1A; C	P54105; E9PMI6;	ICLN_HUMA	Deamidation (N)	4219800	4337700	5240000	0	0	0	0	0	0
QQPDTELEIQQK	IARS2	Q9NSE4	SYIM_HUMA	Unmodified	3600100	3461300	3830300	349940	324050	371340	0	0	0
QQPGIELPETELSLR	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	4373100	429840	0	33564	14530	0	0	0	0
QQPGPSEHIER	VASP; VASP	P50552; K7EQD0	VASP_HUMA	Unmodified	0	3100200	0	484240	326650	626700	191950	0	0
QQPLTELAAHGDLVQSAVWSR	CORO7; CORO7-PAI	P57737; B3L167; I	CORO7_HUM	Unmodified	1316800	0	293140	0	0	0	0	0	0
QQPMALAVALTK	GAA	P10253	LYAG_HUMA	Oxidation (M)	5953600	6764900	7105800	288810	323490	285400	70012	41605	62845
QQPPAVQFVPPLPEWK	KDM1A; KDM1A; K	O60341; R4GMP5	KDM1A_HUM	Unmodified	1321900	1243500	1829900	0	0	0	0	0	0
QQPPLGPSSSLLSLPGLK	TBC1D10B	Q4KMP7	TB10B_HUM	Unmodified	891000	628330	0	0	0	0	0	0	0
QQPTQFINPETPGYVGFANLPNQVHR	SEPTIN2; SEPTIN2;	Q15019; C9IZU3;	SEPT2_HUM	Unmodified	1276800	1175400	1675400	0	0	0	0	0	0
QQQDEAYLASLR	FAF2	Q96CS3	FAF2_HUMA	Unmodified	877770	1319900	0	0	0	48064	0	0	0
QQQDEAYLASLRADQEKER	FAF2	Q96CS3	FAF2_HUMA	Unmodified	4720600	5621700	5289100	151610	205220	187910	23988	0	0
QQQDQVDR	NONO; NONO; NON	Q15233; A0A7Z	NONO_HUM	Unmodified	3151300	4795400	3555600	96634	123480	62940	0	0	0
QQQELFAK	DR1	Q01658	NC2B_HUMA	Unmodified	0	1399000	1355400	61635	0	68561	0	0	0
QQQEMEEDQRWLEKEER	PTK2; PTK2; PTK2;	Q05397; E9PEI4;	FAK1_HUMA	Oxidation (M)	1278600	1344700	0	0	0	0	0	0	0
QQQEMR	SFI1; SFI1; SFI1	A8K8P3; E5RJU6	SFI1_HUMAN	Oxidation (M)	244420	319210	416190	0	0	0	0	0	0
QQQEQLLK	PRRC2A	P48634	PRC2A_HUM	Unmodified	616980	730280	1083700	44785	0	57276	0	0	0
QQQQQQILR	MED12; MED12	Q93074; Q7Z3Z5	MED12_HUM	Unmodified	0	604010	685450	23161	24333	0	0	0	0
QQQQQQQLR	TIMM10B; NCOR1;	Q9Y5J6; O75376;	T10B_HUMA	Unmodified	278650	346280	313120	36822	37771	32616	0	0	0
QQQQSALR	MYH14; MYH14	Q7Z406; M0QY43	MYH14_HUM	Unmodified	0	0	522380	0	0	0	0	0	0
QQQQVAEQEKLK	TP53BP2; TP53BP2	Q13625; H7C5L8	ASPP2_HUM	Unmodified	0	0	606580	0	0	0	0	0	0
QQQVEAVELEAK	KTN1; KTN1; KTN1;	Q86UP2; G3V5P0	KTN1_HUMA	Unmodified	1148400	861880	0	0	0	0	0	0	0
QQRDVLDGHLREKQR	DSP	P15924	DESP_HUMA	3 Methyl (KR)	4692700	767390	1992400	0	0	0	0	0	0
QQREDITQSAQHALR	ILF3	Q12906	ILF3_HUMAN	Unmodified	10639000	7109300	8470500	0	44444	67626	0	0	0
QQRMLNRR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Oxidation (M);2 M	0	1822900	0	161530	156640	13147	0	0	0
QQRNEVSFVIHNLPVLAK	SEPHS1	P49903	SPS1_HUMA	Deamidation (N)	991280	1269500	771100	0	0	0	0	0	0
QQSEEDLLLQDFSR	SSR3; SSR3	Q9UNL2; C9JA28	SSRG_HUMA	Unmodified	6689000	6643800	5464600	93053	50408	14429	0	0	0
QQSEISAAVER	PRRC2C; PRRC2C; I	Q9Y520; A0A0A0	PRC2C_HUM	Unmodified	451010	482960	1874300	0	0	0	0	0	0
QQSELQSQVR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	4547800	5191400	0	743860	384900	311570	0	0	0
QQSHFAMMHGGTGFAGIDSSSPEVK	PCBP1	Q15365	PCBP1_HUM	2 Oxidation (M)	14671000	14294000	14218000	0	165790	206190	0	0	0
QQTESLLQLLTPAYITK	SENP8	Q96LD8	SENP8_HUM	Unmodified	214420	162870	331770	0	0	0	0	0	0
QQTLEAEEAK	DBN1; DBN1	Q16643; D6R9W4	DREB_HUMA	Unmodified	0	0	4479400	0	0	0	0	0	0
QQTSLFIAR	CKAP5	Q14008	CKAP5_HUM	Unmodified	1161400	1094000	1068700	24650	40331	42276	0	0	0
QQTSSRPPASVGELSSSGLGDPR	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4_HUM	Unmodified	1431100	1578300	1450500	42256	0	0	0	0	0
QQVAFYGQTLGQAQAHSQEQ	FUBP3	Q96I24	FUBP3_HUM	Unmodified	1391300	1283100	0	111310	122190	0	0	0	0
QQVAPTDDETGKELVLALYDYQEK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	0	1875800	1413700	0	0	0	0	0	0
QQVASLIGADPR	NFS1; NFS1; NFS1; ?	Q9Y697; A2A2M	NFS1_HUMA	Unmodified	1303200	1223300	1135600	0	0	33125	0	0	0
QQVLPLDSIYK	SMCHD1; SMCHD1;	A6NHR9; A0A2R	SMHD1_HUM	Unmodified	882290	302650	313020	0	0	0	0	0	0
QQVLPLDSIYKK	SMCHD1; SMCHD1;	A6NHR9; A0A2R	SMHD1_HUM	Unmodified	1042300	867990	568350	0	20654	20578	0	0	0
QQVMTAAQK	BTD; BTD; BTD; BT	P43251; A0A2R8	BTD_HUMAN	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
QQVPSGESAILDR	PARP1; PARP1; PAR	P09874; A0A7I2	PARP1_HUM	Unmodified	9431200	9767800	9337300	0	0	0	0	0	0
QQVVLENAAK	EXOSC10	Q01780	EXOSX_HUM	Unmodified	1871300	1375100	619910	0	0	0	0	0	0
QQYESVAAK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	10301000	10445000	9038900	2914100	3129800	3418300	0	14441	0
QRAELEELRQQLEESSSALTR	CEP131; CEP131; CE	Q9UPN4; I3L4M5	CP131_HUM	Unmodified	392670	772230	575460	0	0	0	0	0	0
QRATAATGMNDKSSR	KIF14	Q15058	KIF14_HUMA	Oxidation (M);2 M	0	204080	243680	0	0	0	0	0	0
QRDELNR	PAFAH1B1; PAFAH1	P43034; I3L495; /	LIS1_HUMAN	Unmodified	1399000	891860	820370	35366	0	32462	0	0	0
QREEEIEAQEK	DNAJC8; DNAJC8	O75937; S4R3J5	DNJC8_HUM	Unmodified	0	4819400	3890800	330410	0	285320	0	0	0
QREELGQGLQGVEQK	CKAP4	Q07065	CKAP4_HUM	Unmodified	1830200	1327700	2070800	86967	99770	0	0	0	0
QREESYSR	SFPQ; SFPQ; SFPQ	P23246; H0Y9K7;	SFPQ_HUMA	Unmodified	0	0	0	1014700	1416000	2745700	0	0	0
QREEYQPATPGLGMFVEVKDPEDKVILAR	TMED9	Q9BVK6	TMED9_HUM	Oxidation (M)	1788900	1312000	1680000	0	0	0	0	0	0
QRELAEQELEKQR	PLEC	Q15149	PLEC_HUMA	Unmodified	2315400	2654500	3716100	429310	375480	457400	0	0	0
QRELAEQELEKQRQLAEGTAQQR	PLEC	Q15149	PLEC_HUMA	Unmodified	700920	0	584030	153910	121280	0	0	0	0
QRELEIEER	EIF3A	Q14152	EIF3A_HUM	Unmodified	407590	0	0	0	0	0	0	0	0
QRELEIEERER	EIF3A	Q14152	EIF3A_HUM	Unmodified	1743400	2465000	2081800	109290	0	0	0	0	0
QREMEEQMR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	2 Oxidation (M)	352460	75540	1092600	0	0	0	0	0	0
QREMEEQMRR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	2 Oxidation (M)	1853200	5862600	5529300	0	0	0	0	0	0
QREPGLGFSFEFTEQQKEFQATAR	ACADM; ACADM; A	P11310; A0A7P0	ACADM_HUM	Unmodified	1424000	2262300	1995800	0	0	0	0	0	0

QRGDPQTQLEAMELYLAR	FPGS; FPGS; FPGS; I	Q05932; Q5JU23;	FOLC_HUMA	Oxidation (M)	0	0	0	40129	33025	25677	0	0	0
QRGDQLVPFSTK	TMEM43; N/A	Q9BTV4; V9GY0	TMM43_HU	Unmodified	2098800	2153500	2096100	124060	150450	195070	0	35449	0
QRGGAEGELQALR	PLEC	Q15149	PLEC_HUMA	Unmodified	189530	1609200	1383800	139620	75535	136030	0	0	0
QRIDEFEAL	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	5244800	5945700	6185500	1217500	1256400	1359900	94243	69522	0
QRIDEFEAM	RDX; RDX; RDX	P35241; A0A2R8	RADI_HUMA	Oxidation (M)	1142400	1060800	1600600	142990	100340	129670	0	0	0
QRIDEFESM	ERMN; MSN; ERMN	Q8TAM6; P26038	ERMIN_HUM	Oxidation (M)	5792600	6253700	5183400	655690	515720	726960	61957	63688	65725
QRKTEELEEESFPER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	735440	499800	804990	135800	151580	193020	0	0	0
QRMESALDQLK	TALDO1; TALDO1;	P37837; E9PM01;	TALDO_HUM	Oxidation (M)	2506000	2728800	2636300	0	70456	48113	0	0	0
QRNGVMPSHFSR	RPS19; RPS19	P39019; A0A075	RS19_HUMA	Oxidation (M);Deam	4708200	4389200	5164700	347380	0	0	0	0	41588
QRPDLGSAQK	MCM4; MCM4; MC	P33991; A0A3B3	MCM4_HUM	Unmodified	4163200	7527700	5241200	0	0	0	0	0	0
QRPEPELGLKR	SLC38A10	Q9HBR0	S38AA_HUM	Unmodified	729040	0	666770	0	119670	139490	0	15765	0
QRPGASTDSSTQGANLPDFELLSR	ZC3H4; ZC3H4	Q9UPT8; M0QY9	ZC3H4_HUM	Unmodified	1731800	1274100	1693200	35204	0	0	0	0	0
QRPQATAEQIR	UBAP2L; UBAP2L;	Q14157; Q5VU80	UBP2L_HUM	Unmodified	1264600	1363800	1211100	0	78687	0	0	0	0
QRPYSVAVPAFSQGLDDYGAR	BAIAP2; BAIAP2; B	Q9UQB8; I3L4C2	BAIP2_HUM	Unmodified	0	951140	0	0	0	40437	0	0	0
QRQEEPPPGPQRPDQSAAAAGPGDPK	TRIR; TRIR; TRIR; T	Q9BQ61; K7ELS0	TRIR_HUMA	Unmodified	1746200	1470400	1659000	0	0	0	0	0	0
QRQPPLLGDHPAEYGEGR	HNRNPL	A0A3B3ITJ4	A0A3B3ITJ4	Unmodified	4408900	4371200	3494700	299920	314360	224200	0	29025	38713
QRSPAPGSPDEEGGAEAPAAGIR	SYNM; SYNM; SYN	O15061; A0A075	SYNEM_HUM	Unmodified	0	0	0	0	0	0	123280	176580	128640
QRVELLER	TPR	P12270	TPR_HUMAN	Unmodified	269130	0	642960	0	0	0	0	0	0
QRYEDQLKQQQLLNEENLR	ATAD3A; ATAD3B;	Q9NVI7; Q5T9A4	ATD3A_HUM	Unmodified	2263300	2005800	2532200	0	0	0	0	0	0
QRYEILTPNSIPK	MYH9	P35579	MYH9_HUM	Deamidation (N)	3865100	3678900	3926700	0	60571	50016	45777	69780	45240
QRYVLGDTAMQK	UBA6	A0AVT1	UBA6_HUMA	Oxidation (M)	1147600	1230000	1216900	55072	0	59611	0	0	0
QSAERNSNLVGAAHEELQQSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Deamidation (N)	15139000	13381000	15577000	1961300	1843400	1920700	244410	166270	123030
QSAERNSNLVGAAHEELQQSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	2 Deamidation (N)	4059100	5006300	4961400	269390	228720	177150	0	0	0
QSAERNSNLVGAAHEELQQSR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	333730	0	268170	244040	312810	311860	0	0	50228
QSDDEVYAPGLDIESSLKQLAER	SF3A1	Q15459	SF3A1_HUM	Unmodified	1038700	537530	778740	0	0	0	0	0	0
QSDELALVR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	2328700	2932600	2338100	165980	0	207290	0	0	0
QSDVMIVAGTLTNK	NDUFS7; NDUFS7; N	O75251; F5H5N1	NDUS7_HUM	Oxidation (M)	2460000	2035300	2245800	109220	41729	80106	0	0	0
QSEDSTFYLGER	CP; CP; CP	P00450; E9PFZ2;	CERU_HUMA	Unmodified	608890	650330	330120	61125	107420	70968	0	0	0
QSEGLTKEYDR	BCAP31; BCAP31	P51572; A0A2R8	BAP31_HUM	Unmodified	0	539370	389470	0	63782	0	0	0	0
QSEPFFK	G6PD; G6PD; G6PD;	P11413; E7EM57;	G6PD_HUMA	Unmodified	809270	621590	1018600	0	0	0	0	0	0
QSEQQRETLAQLQQEFQR	PFDN6	O15212	PFD6_HUMA	Unmodified	5311700	4598100	4171900	60061	0	0	0	0	0
QSFAVLR	SSH3; SSH3; SSH3	Q8TE77; A0A087	SSH3_HUMA	Unmodified	0	323930	0	0	0	0	0	0	0
QSFTMVADTPENLR	LASP1; LASP1; LAS	Q14847; C9J9W2;	LASP1_HUM	Oxidation (M)	9714300	9056400	8371700	324190	285770	482670	0	0	0
QSFVLKEGVEYR	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Unmodified	1598800	1670000	1666600	0	0	0	0	0	0
QSGEAFVELGSEDDVKMALK	HNRNPF; HNRNPF	P52597; A0A1B0	HNRPF_HUM	Oxidation (M)	1475300	988640	1419800	0	0	0	0	0	0
QSGEAFVELGSEDDVKMALKK	HNRNPF; HNRNPF	P52597; A0A1B0	HNRPF_HUM	Oxidation (M)	5586100	6421800	8345300	30695	0	0	0	0	0
QSGESIDIITR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	0	1895900	0	0	0	0	0	0	0
QSGQTDPLQKEELQSGVDAANSAAQQYQR	IQGAP1; IQGAP1	P46940; A0A0J9	IQGA1_HUM	Deamidation (N)	1011600	2169500	2450300	0	0	0	0	0	0
QSGVVPFIFQAK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	3789900	3584000	3854600	342450	273360	314990	21120	59650	20006
QSHLLLQSSIPDQQLLK	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	12354000	10792000	9806700	0	0	0	0	0	0
QSHPLTQSR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1_HUM	Unmodified	0	172290	227520	228380	222510	38424	0	53804	0
QSHTLPFPPPPAALPFYPASAYPR	FAM120A; FAM120	Q9NZB2; A0A0C	F120A_HUM	Unmodified	6677200	5310900	6633900	0	0	0	0	0	0
QSIINPDWNFEK	NSF; NSF	P46459; I3L0N3	NSF_HUMAN	Unmodified	720810	700660	852680	0	0	0	0	0	0
QSIIVAASSR	FARP1; FARP1; FAR	Q9Y4F1; C9JME2	FARP1_HUM	Unmodified	445540	469340	517300	115060	93242	120360	42791	51646	38140
QSIPVLLEGR	DDX31; DDX31	Q9H8H2; F8WAJ0	DDX31_HUM	Unmodified	327460	373060	434390	9703	0	0	0	0	0
QSKPVTTPEEIAQVATISANGDK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60_HUMA	Deamidation (N)	1281000	1385500	0	0	0	0	0	0	0
QSKPVTTPEEIAQVATISANGDKEIGNIISDAMKK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60_HUMA	Oxidation (M);Deam	2786500	3068500	0	0	0	0	0	0	0
QSLEEQK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	4111020	508820	2720800	367280	321850	626660	0	66211	89994
QSLGLEIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Unmodified	15617000	13002000	13756000	0	0	0	25722	16203	44455
QSLGLEIGTLNAAK	TPI1	P60174	TPIS_HUMAN	Deamidation (N)	7751600	6467700	5997400	0	0	0	0	0	0
QSLGHPPPEPGPDR	PRKAR2A; PRKAR2	P13861; C9J830	KAP2_HUMA	Unmodified	837710	816100	673340	109380	108030	108200	0	32216	33235
QSLLDMAQTWGEFR	BCAT2; BCAT2; BC	O15382; B3KSB3	BCAT2_HUM	Oxidation (M)	487790	495300	391980	0	0	0	0	0	0
QSLLFCPK	OCIAD2; OCIAD2; O	Q56VL3; D6RD77	OCAD2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
QSLLTAIR	COBLL1; COBLL1;	Q53SF7; A0A0D9	COBL1_HUM	Unmodified	315390	0	547800	51202	50548	44541	0	0	0
QSLPPGLAVK	RPL38	P63173	RL38_HUMA	Unmodified	1944500	1810800	2798500	54332	43365	70252	0	0	0
QSLTMDPVVK	HSPA4	P34932	HSP74_HUM	Oxidation (M)	794680	1235000	1190100	0	37644	23652	0	0	0
QSMAFSILNTPK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Oxidation (M)	2977900	2739600	2656600	104260	0	126580	0	0	0
QSNSYDMFMRGEEILSGAQR	DARS1; DARS1	P14868; H7BZ35	SYDC_HUMA	2 Oxidation (M);De	2681100	2962000	5028700	45503	87014	0	0	0	0
QSNVAAPGDATPPAEKK	PPP1R10	Q96QC0	PP1RA_HUM	Unmodified	578590	844830	1709700	0	0	0	0	0	0
QSPASPPPLGGGAPVR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	3556200	3636500	3223300	248010	47409	219380	0	0	0
QSPTLQR	USP14; USP14	P54578; A6NJA2	UBP14_HUM	Unmodified	0	0	0	0	0	0	0	0	0
QSQDEPLR	TARDBP; TARDBP;	Q13148; A0A087	TADBP_HUM	Unmodified	433280	4522100	5272300	162760	159580	151200	0	0	0
QSQHDKIDASELSFPFHESILK	TMPO	P42166	LAP2A_HUM	Unmodified	7210300	10079000	7083700	0	0	0	0	0	0
QSQHMTEVVR	TP53; TP53; TP53; T	P04637; E7EQX7;	P53_HUMAN	Oxidation (M)	964930	728430	642550	323390	0	7787.9	0	0	0
QSQHMTEVVRRCPHHER	TP53; TP53; TP53; T	P04637; E7EQX7;	P53_HUMAN	3 Methyl (KR)	0	762580	0	0	0	0	0	0	0
QSRMDTDLETMDLDQGGEALAPR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	2 Oxidation (M)	1135700	1107900	1195300	393060	458250	440860	0	0	0
QSRSPSEGRSQTPNR	CACNA1E; CACNA1	Q15878; J3KP11;	CAC1E_HUM	Methyl (KR);Deam	0	0	57582	0	0	0	0	0	0
QSSEAEIQAK	PLEC	Q15149	PLEC_HUMA	Unmodified	0	951700	1151600	189580	385810	342580	0	0	0
QSSEITR	A2M	P01023	A2MG_HUM	Unmodified	1155200	670610	852290	0	0	0	0	0	0
QSSFALLGDLTK	TNPO2; TNPO1; TNI	O14787; Q92973;	TNPO2_HUM	Unmodified	3179100	2115900	2178100	64269	37531	29948	21018	0	15985
QSSGASSSSFSSSR	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X_HUM	Unmodified	2847100	2354400	2378100	150270	221170	0	0	0	0
QSSGPGASSGTSGDHGELVVR	EEF1D; EEF1D	E9PL71; E9PN91	E9PL71_HUM	Unmodified	6196600	4573500	4285800	150780	157520	193390	0	22894	0
QSSLEPVAFR	CORO7; CORO7; CO	P57737; I3L351; I	CORO7_HUM	Unmodified	1170900	1301000	1371900	0	0	0	0	0	0
QSSLEPVAFRLPR	CORO7; CORO7; CO	P57737; I3L351; I	CORO7_HUM	Unmodified	2456500	1699800	933420	94718	111690	94556	13625	15193	0
QSTDEEVTSLAK	TCEA1; TCEA1; TCI	P23193; E5RJ93;	TCEA1_HUM	Unmodified	3284500	2312000	1871900	0	0	0	0	0	0
QSTLYSFFPK	MSH6; MSH6; MSH6	P52701; A0A087	MSH6_HUMA	Unmodified	9456400	6187300	10266000	90386	40081	46517	0	0	0
QSTQVMAASMSAFDPLKNQDEINK	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	2 Oxidation (M)	0	1054100	1401600	0	0	0	0	0	0
QSTTHLADGPFAVLVDYIR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1_HUM	Unmodified	324800	230820	330940	0	0	0	0	0	0
QSTVLAPVIDLK	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45_HUM	Unmodified	2963900	2429600	1998300	108770	114960	31618	0	0	0
QSTVLAPVIDLKR	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45_HUM	Unmodified	1259000	1558900	1589000	72523	56171	58245	0	0	0
QSVDKVTSPTKV	CALD1; CALD1	Q05682; E7EX44	CALD1_HUM	Unmodified	900920	714860	807480	184650	178750	208870	305680	0	0
QSVDNVTNPEK	SCAF8; SCAF8	Q9UPN6; A0A0A	SCAF8_HUM	Unmodified	802020	552320	435150	0	20221	0	0	0	0
QSVENDIHGLR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Deamidation (N)	2110300	1025300	2165600	450500	220380	426870	0	0	0
QSVENDIHGLR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	2762900	2457800	2773600	844820	810110	750160	20177	31821	0
QSVENDIHGLRK	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Deamidation (N)	4071800	3547300	4175900	1020500	677310	971660	31499	23675	0
QSVENDIHGLRK	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	4029400	3952800	3370500	1435300	1729900	1777800	44049	45919	36560
QSVFAILR	UTP20	O75691	UTP20_HUM	Unmodified	582930	573870	424740	6374.6	0	0	0	0	0
QSVLEGLSFSR	FAM120A; FAM120	Q9NZB2; A0A0C	F120A_HUM	Unmodified	2439500	0	2336700	193200	122930	88842	0	0	0
QSVSPPIPHLR	TBC1D9B	Q66K14	TBC9B_HUM	Unmodified	380670	484280	461550	0	0	0	0	0	0
QSVVYGGK	PRPF31; PRPF31	Q8WWY3; E7EV7	PRP31_HUM	Unmodified	1162300	747350	1514000	42950	44307	0	0	0	0
QSYKGSPMEISLPIALSK	LTA4H	P09960	LKHA4_HUM	Oxidation (M)	3198800	2515400	3229800	61079	54490	42670	0	0	0
QTAAQVTLK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	3814000	3341900	3483700	186690	116530	155110	0	0	0
QTALELARR	RDH13; RDH13	Q8NBN7; G8JLA1	RDH13_HUM	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
QTASVTLQAIAAQNAAVQAVNAHSNILK	IMMT; IMMT; IMM	Q16891; B9A067;	MIC60_HUM	Unmodified	745480	0	681840	0	0	0	0	0	0
QTATQLLK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A_HUMA	Unmodified	2899800	3137200	3030400	0	54444	0	0	0	0
QTDPMIMLK	SMU1	Q2TAY7	SMU1_HUMA	2 Oxidation (M)	0	0	2622700	60007	33609	0	59628	34071	0
QTEEQVNDLKER	TPR	P12270	TPR_HUMAN	Unmodified	1816900	478740	0	43456	47124	0	0	0	0
QTELFAHFIQPAAQK	SMARCA5	O60264	SMCA5_HUM	Unmodified	3200300	3553300	2784400	15384	0	0	0	0	0
QTESLESLLSK	CKAP4	Q07065	CKAP4_HUM	Unmodified	3524900	4287400	5494900	273900	206350	171840	0	0	0
QTESLESLLSKSQEHEQR	CKAP4	Q07065	CKAP4_HUM	Unmodified	676080	1068800	1823900	101650	130510	157440	0	0	0
QTESTSFLEK	PSMA6; PSMA6; PSI	P60900; G3V295;	PSA6_HUMA	Unmodified	1109500	3222700	2285600	63077	0	38815	0	0	0
QTEVLLQPNPNAR	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1_HUM	Unmodified	2017300	1183500	919710	0	0	0	0	0	0
QTEVLLQPNPSAR	SH3GLB2; SH3GLB2	Q9NR46; B7ZC39	SHLB2_HUM	Unmodified	965950	1219300	1090900	0	57038	55907	0	0	0
QTFEAAILTQLHPR	EXOSC4; EXOSC4	Q9NPD3; E9PH41	EXOS4_HUM	Unmodified	1279300	1210600	0	0	0	0	0	0	0
QTFGYGAR	AHSA1; AHSA1; AH	O95433; H0YJU2;	AHSA1_HUM	Unmodified	3818100	4174700	4414100	0	51521	54039	0	0	7688.5
QTFLLQTTK	MTA2	O94776	MTA2_HUM	Unmodified	614530	537440	322380	0	0	0	0	0	0
QTFSPFGQIMEIR	TIA1; TIAL1; TIA1; T	P31483; Q01085;	TIA1_HUMA	2 Oxidation (M)	19324000	10424000	7736400	67650	71850	51057	14760	0	7558.6
QTGGLGISIAGGK	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB_HUM	Unmodified	3598600	3221500	3070900	0	0	0	0	0	0
QTGLLDPGMLVNIQQPLIR	NR2C2	P49116	NR2C2_HUM	Oxidation (M)	609150	0	619110	0	0	0	0	0	0
QTGMKYRNMGDIWR	KCNAB1	H7C4S9	H7C4S9_HUM	2 Oxidation (M);2 I	0	0	0	0	773440	125890	2575200	2614500	2245400
QTIAHQQQQLTNLQMAAQR	PUF60; PUF60; PUF	E9PMU7; A0A0J9	E9PMU7_HUM	Oxidation (M)	2142000	1496600	1152200	0	0	0	0	0	0
QTIDNSQGAYQEAFDISK	YWHAQ	P27348	1433T_HUMA	Deamidation (N)	2284600	3474500	1516200	0	0	0	0	0	0
QTIDNSQGAYQEAFDISKK	YWHAQ	P27348	1433T_HUMA	Unmodified	1508900	1831200	947320	0	0	0	0	0	0
QTIDNSQGAYQEAFDISKK	YWHAQ	P27348	1433T_HUMA	Deamidation (N)	3603700	2989400	3633700	0	0	0	0	0	0
QTIIDTVDPYPMGKPPLPR	RAPGEF2; RAPGEF	A0A2R8Y661; A0	A0A2R8Y661	Oxidation (N)	181980	203430	275250	0	0	0	0	0	0
QTLAIYDR	MRPL45; MRPL45	Q9BRJ2; A0A087	RM45_HUMA	Unmodified	1651900	818410	1446200	0	0	0	0	0	0
QTLENERGELANEVK	MYH9	P35579	MYH9_HUM	Unmodified	1237700	733890	1241700	0	0	0	0	0	0
QTLENERGELANEVK	MYH9	P35579	MYH9_HUM	Deamidation (N)	618330	400110	329010	0	0	0	0	0	0
QTLMWSATWPK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5_HUMA	Oxidation (M)	5422700	4093600	5366000	0	0	0	0	0	0
QTLPVAPR	ZC3H14; ZC3H14; Z	Q6PJT7; A0A087	ZC3HE_HUM	Unmodified	1591800	1223100	1634700	72566	106270	74256	0	0	0
QTLQEDLLR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Unmodified	2186400	2286900	1844100	0	0	0	0	0	0
QTLQSEQPLQVAR	PSMC2; PSMC2; PS	P35998; C9JL59;	PRS7_HUMA	Unmodified	718080	552010	616600	0	0	0	0	0	0
QTLSTPGTIILGTIPVPK	NTPCR; NTPCR	Q9BSD7; Q5TDF	NTPCR_HUM	Unmodified	4793200	4317900	3715100	0	0	0	0	0	0
QTMFYTEVTDAQR	NUDT14	O95848	NUD14_HUM	Oxidation (M)	3442600	3793300	3211800	89936	99769	0	0	0	0
QTMLFSATQTR	DDX18; DDX18	Q9NVP1; H7C452	DDX18_HUM	Oxidation (M)	1404300	1810300	2038000	0	0	0	0	0	0
QTMQVDEHARPQTTLEQLQK	ACAA2; ACAA2; AC	P42765; A0A0B4	THIM_HUMA	Oxidation (M)	11240000	12098000	9288000	0	0	0	0	0	0
QTNAKLQNELDTLKENNLKNVEELNK	CLIP1; CLIP1; CLIP1	P30622; F5H0N7;	CLIP1_HUM	2 Methyl (KR);2 D	74504000	57251000	68657000	5506700	5046000	6210500	0	0	467430
QTNLENLDQAFSVAER	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
QTNPSAMEVEEDDPVPEIR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	7006000	5709300	5644500	263350	189330	239540	0	0	0
QTNPSAMEVEEDDPVPEIRR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	1577700	999420	974980	0	0	0	0	0	0
QTPAPAASVTGSR	MKI67	P46013	KI67_HUMA	Unmodified	2391300	1648600	1797000	0	0	0	0	0	0
QTPESKNATPTK	EML4; EML4	Q9HC35; B5MBZ	EMAL4_HUM	Deamidation (N)	0	0	881130	0	0	0	0	0	0

QTPMASSPR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3_HUM	Oxidation (M)	411790	779340	1723600	0	0	0	0	0	0
QTPSPDVVLR	LIMCH1; LIMCH1; L	Q9UPQ0; H0YKP	LIMC1_HUM	Unmodified	925590	0	1025000	110070	87022	96400	20611	23404	30699
QTQTFTTYSDNQPGVLIQVYEGER	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	2328700	1115300	1596000	0	0	0	0	0	0
QTQTPDLLPEALEAQVLPR	CIZ1; CIZ1; CIZ1; CI	Q9ULV3; A0A494	CIZ1_HUMA	Unmodified	1518400	1368000	1191200	0	0	0	0	0	0
QTSDRLFFLDLK	SLC27A1; SLC27A1	Q6PCB7; M0QZC	S27A1_HUM	Unmodified	176310	183440	399350	0	0	0	0	0	0
QTSGGPVDASSEYQQELER	ATP5PF; ATP5PF	P18859; A8MUH2	ATP5J_HUM	Unmodified	2103100	1745300	1400900	0	0	0	0	0	0
QTSGGPVDASSEYQQELERELFK	ATP5PF; ATP5PF	P18859; A8MUH2	ATP5J_HUM	Unmodified	0	6742500	6859200	0	0	0	0	0	0
QTSLVSSR	SNW1; SNW1; SNW1	Q13573; G3V5R3	SNW1_HUM	Unmodified	0	1971300	2335700	108170	104370	184350	0	0	0
QTTQDAPEEVR	CWC15	Q9P013	CWC15_HUM	Unmodified	0	951800	1080000	58581	50693	70591	0	0	0
QTTVSNSQQAYQEAFEISK	YWHAB	P31946	1433B_HUM	Deamidation (N)	3084200	1494300	1441000	0	0	0	0	0	0
QTTVSNSQQAYQEAFEISKK	YWHAB	P31946	1433B_HUM	Deamidation (N)	0	686560	1231000	0	0	0	0	0	0
QTVAVGVIK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Unmodified	76268000	82748000	65485000	2220300	1770200	2983400	107950	0	102460
QTVMFSATFPR	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Oxidation (M)	2167300	722720	1913800	34967	25556	31403	0	0	0
QTVMFTATMPPAVER	DDX23	Q9BUQ8	DDX23_HUM	2 Oxidation (M)	1308400	1731500	1496700	101150	101730	146960	0	13910	12991
QTYFLPVIGLVDAEK	PSMC3; PSMC3; PS	P17980; E9PMD8	PRS6A_HUM	Unmodified	5087700	3788100	4443600	0	0	0	0	0	0
QTYSTEPNNLK	RPL28; RPL28; RPL	P46779; H0YKD8	RL28_HUMA	Deamidation (N)	491070	489590	376910	0	49437	37691	0	0	0
QVAEQFLNMRGGLGLSGAK	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Oxidation (M);Deam	1731000	4634900	1097900	0	0	32082	0	0	0
QVAGTMKLELAQYR	ATP5F1A	P25705	ATPA_HUMA	Oxidation (M)	2969700	2387500	2544100	64870	68858	37177	0	0	0
QVALWDTK	CORO1A; CORO1A;	P31146; H3BRY3	COR1A_HUM	Unmodified	1446900	1267600	1317000	11541	13697	15223	0	0	0
QVAQQEAER	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	7585900	7866200	7488900	387050	346430	395060	0	0	0
QVAQQEAERAR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	2844500	2467100	2835200	366240	0	0	0	15456	0
QVAQQEAQR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	3355800	4425000	4194900	359260	308830	237960	0	0	0
QVATALQNLQTK	VCL	P18206	VINC_HUMA	Unmodified	1584700	1448900	1126500	0	0	0	0	0	0
QVCTDVIR	COL21A1; COL21A1	Q96P44; F5GZK2	COLA1_HUM	Unmodified	2553700	1427300	1918400	0	0	0	0	0	0
QVDAESWK	TARS1; TARS1; TAR	P26639; D6R9F8;	SYTC_HUMA	Unmodified	861130	1153600	743370	0	24114	0	0	0	0
QVDENWYEGRIPGTSR	SORBS1; SORBS1; S	Q9BX66; A0A3B3	SRBS1_HUM	Unmodified	0	658740	881940	42113	50615	43588	51029	41377	40183
QVDGDNSHVEMK	TFRC; TFRC	P02786; F8WBE5	TFR1_HUMA	Oxidation (M);Deam	497100	577350	466500	0	0	0	0	0	0
QVDQLTNDK	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Unmodified	0	0	0	195320	238880	326520	0	0	0
QVDQLTNDK	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Deamidation (N)	0	0	0	0	0	192240	0	0	0
QVDQLTNDKAR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Unmodified	2485900	6756900	1253600	2806000	3062800	2977900	1047600	0	0
QVDQLTNDKAR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Deamidation (N)	7529700	6672200	9448000	6088100	6369100	6108500	0	0	0
QVDVTSFAGHPCTR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN_HUM	Unmodified	1341200	1110100	762650	374450	274630	547390	0	0	0
QVEDDIQQLLK	PSMC2; PSMC2; PS	P35998; C9JLS9;	PRS7_HUMA	Unmodified	781810	754740	0	13601	0	0	0	0	0
QVEELFER	GTF2I; GTF2I	P78347; A0A494	GTF2I_HUM	Unmodified	289860	192660	337530	0	0	0	0	0	0
QVEELYHSLLELGEK	SPTAN1; SPTAN1	Q13813; A0A0D9	SPTN1_HUM	Unmodified	271230	0	188750	0	0	0	0	0	0
QVEGKNPVTIFSLATNEMWR	SSBP1; SSBP1; SSBI	Q04837; C9K0U8	SSBP_HUMA	Oxidation (M)	2529400	0	2356000	0	0	0	0	0	0
QVEGMEDWKQDSQLQK	AZGP1; AZGP1	P25311; C9JEV0	AZA2G_HUMA	Oxidation (M)	1843600	2016300	1567700	82241	0	131900	0	0	0
QVEILNR	EPHX1; EPHX1	P07099; B1AQP8	HYEP_HUMA	Unmodified	533080	618540	0	0	0	0	0	0	0
QVELELQQIEQK	VPS52	Q8N1B4	VPS52_HUM	Unmodified	622350	295240	0	0	0	0	0	0	0
QVENAGAIGPSR	SEPTIN9; SEPTIN9; :	Q9UHD8; K7ENL	SEPT9_HUM	Unmodified	4530700	4524600	2142300	108530	42887	198020	0	0	0
QVENAGAIGPSR	SEPTIN9; SEPTIN9; :	Q9UHD8; K7ENL	SEPT9_HUM	Deamidation (N)	3684600	4805100	3800400	0	0	0	0	0	0
QVEPLDPPAGSAPGEHVFVK	YARS1; YARS1	P54577; A0A6Q8	SYYC_HUMA	Unmodified	2243400	2237400	2141500	52808	0	56228	0	0	0
QVEQLEK	EIF3A	Q14152	EIF3A_HUM	Unmodified	0	0	1490000	0	0	0	0	0	0
QVEVELLSR	CERS2; CERS2; CER	Q96G23; Q5SZE4	CERS2_HUM	Unmodified	1606600	1484400	1714200	439500	445330	423410	54029	44824	50557
QVEVHQEPGAAVPR	SLC38A10; SLC38A1	Q9HBR0; H0YF9	S38AA_HUM	Unmodified	650130	871980	748810	0	65951	0	0	0	0
QVFEGQNR	LMAN1	P49257	LMAN1_HUM	Unmodified	5962100	5673600	2815600	358380	310650	163920	39919	61588	0
QVFLATWK	AP2B1; AP2B1	P63010; A0A087	AP2B1_HUM	Unmodified	2100700	1577300	1997100	24194	10157	24611	0	0	0
QVGSGVTTDQVQAEAK	IGHM	P01871	IGHM_HUMA	Unmodified	764180	770180	727600	127190	66236	47248	0	0	0
QVGSISMDLQLTNK	AP1B1	Q10567	AP1B1_HUM	Oxidation (M)	871090	577490	565810	44590	0	40761	0	0	0
QVGVGYVDSIQR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	12998000	15368000	11868000	229330	27398	0	0	0	0
QVGVGYVDSIQRK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUMA	Unmodified	2830900	2222000	2566300	105730	0	0	0	0	0
QVGYEDQWLQLLR	PLOD3	O60568	PLOD3_HUM	Unmodified	280690	404050	431180	0	0	0	0	0	0
QVHPDTGISSK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Unmodified	140730000	241290000	245880000	4108800	4059700	3775200	156340	125840	0
QVHPDTGISSKAMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	2 Oxidation (M);2 I	19011000	14100000	13729000	0	0	0	0	0	0
QVHPDTGISSKAMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	2 Oxidation (M);M	8947700	12876000	12524000	0	0	0	0	0	0
QVHPDTGISSKAMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	2 Oxidation (M);De	7423500	7369100	7460900	0	0	0	0	0	0
QVHPDTGISSKAMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	2 Oxidation (M);M	6278600	3568300	3538000	0	0	0	0	0	0
QVHPDTGISSKAMGIMNSFVNDIFER	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Oxidation (M);Deam	0	892640	0	0	0	0	0	0	0
QVIIQGFR	SMC3	Q9UQE7	SMC3_HUMA	Unmodified	2768000	0	2789000	0	0	0	0	0	0
QVISLQTK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	0	710760	809950	0	0	0	0	0	0
QVLDLEDLVFTQGSHFMANKR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Oxidation (M)	1856000	0	2652500	0	0	0	0	0	0
QVLEGEEIAYK	LMNB2	Q03252	LMNB2_HUM	Unmodified	861140	747110	1007900	41544	65594	0	0	0	0
QVLEGEEIAYKFTPK	LMNB2	Q03252	LMNB2_HUM	Unmodified	2826200	3172400	2538400	279330	167210	264810	0	25370	23420
QVLFTPATQAAR	UBR4	Q5T4S7	UBR4_HUMA	Unmodified	954170	861330	1545200	0	0	0	0	0	0
QVLGQMVIDEELLGDGHSYSPR	PSMB4	P28070	PSB4_HUMA	Oxidation (M)	2633900	1673200	2188500	0	0	0	0	0	0
QVLKYDDFLK	ARHGAP1; ARHGAI	Q07960; H0YE29	RHG01_HUM	Unmodified	1037800	1170200	1029800	66939	55498	45146	0	13605	0
QVLLGDQIPK	PSMB6	P28072	PSB6_HUMA	Unmodified	13471000	13317000	13545000	510720	511160	379180	0	28680	0
QVLLSAAEAAEVILRVDNIIK	CCT2	P78371	TCPB_HUMA	Unmodified	41992	0	0	0	0	0	0	0	0
QVLLSEPEEAAALYR	APEH; APEH; APEH	P13798; C9JIF9;	ACPH_HUMA	Unmodified	4430700	3417500	4506500	454460	261380	239670	0	0	0
QVLQSTQSPR	AKAP2	Q9Y2D5	AKAP2_HUM	Unmodified	794200	1260700	746890	0	0	0	0	0	0
QVMMFSATLSK	DDX39B; DDX39B; I	Q13838; F6TRA5;	DX39B_HUM	2 Oxidation (M)	11429000	10460000	12150000	172800	309820	339060	0	0	0
QVNELVR	PAFAH1B3; PAFAH1	Q15102; M0R389	PA1B3_HUM	Unmodified	6880100	6272200	7004500	0	0	40403	0	0	0
QVNEMKNSMSETVR	LMAN1	P49257	LMAN1_HUM	2 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
QVNEMKNSMSETVR	LMAN1	P49257	LMAN1_HUM	2 Oxidation (M);De	0	0	1133200	0	252380	0	0	0	0
QVNYRGQVVSLIR	CAPN1; CAPN1	P07384; E9PL37	CAN1_HUMA	Deamidation (N)	1332600	868340	893420	25822	31626	17908	0	0	0
QVPGGGGGGGSGGGGGSGGGGSGGGR	SRP68; SRP68; SRP6	Q9UHB9; K7EN5	SRP68_HUM	Unmodified	748680	736930	632600	0	0	0	0	0	0
QVPNESFFNFFNPLK	NAP1L4; NAP1L4	Q99733; H0YCI4	NP1L4_HUM	Unmodified	402490	299270	0	0	0	0	0	0	0
QVPPQRCPVEIPPIR	KPRP	Q5T749	KPRP_HUMA	Unmodified	0	0	0	157380	171000	228640	0	0	0
QVPQVFPPLQIPQAR	PROX1	Q92786	PROX1_HUM	Unmodified	4675800	3532500	4272800	0	0	0	0	0	0
QVQDLEREFLIK	UPF2	Q9HAU5	RENT2_HUM	Unmodified	341170	216420	276350	0	0	0	0	0	0
QVQHILASASPSGR	SEC31A; SEC31A; SI	O94979; D6RHZ5	SC31A_HUM	Unmodified	2148300	1236900	1697800	214260	147470	188840	0	0	0
QVQMCKRNLEVMDSVRR	WNT4; WNT4	P56705; H0Y663	WNT4_HUM	2 Oxidation (M);2 I	0	0	0	0	0	0	0	0	0
QVQNLVNK	DSP	P15924	DESP_HUMA	Unmodified	2257900	2736800	2221400	0	0	0	0	0	0
QVQPEGPYR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	3761400	3441400	3294100	106630	123220	114340	24338	26434	0
QVQQPSVAQLR	WTAP; WTAP	Q15007; A0A087	FL2D_HUMA	Unmodified	1640100	1007700	1582700	117770	127740	51303	0	0	0
QVQSLMVHQR	SMARCE1; SMARCI	Q969G3; A0A2R8	SMCE1_HUM	Oxidation (M)	2569200	2625000	2517000	50883	35074	77662	0	0	0
QVQSLTCEVDALK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	186940	0	1076000	346320	305650	240120	0	0	0
QVQSLTCEVDALKGTNESLER	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	4711700	4683600	4635900	288730	238870	0	133300	0	0
QVQSMKQTNSSLR	RCOR2	Q8IZ40	RCOR2_HUM	Oxidation (M);Deam	1817600	0	2309000	150290	81727	149250	0	0	0
QVQVALETAQR	PLEC	Q15149	PLEC_HUMA	Unmodified	1714200	1765700	1556700	407550	416890	487960	0	0	0
QVSASELHTSGILGPETLR	EPPK1; EPPK1	P58107; A0A075	EPIPL_HUM	Unmodified	404930	268560	569490	0	0	0	0	0	0
QVSDDLTER	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	22286000	18899000	20761000	1225400	557990	1283400	0	0	0
QVSDLISVLR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5_HUMA	Unmodified	6677700	5650100	6026200	15492	10190	20904	0	0	0
QVSDLISVLREANQAINPK	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5_HUMA	Unmodified	1368100	518500	0	0	0	0	0	0	0
QVSDVQK	TRIM28; TRIM28	Q13263; M0R3C0	TIF1B_HUMA	Unmodified	0	1265800	1315200	39927	54827	0	0	0	0
QVSIEEGER	RAB6A; RAB6D	P20340; Q53S08	RAB6A_HUM	Unmodified	2471500	3038500	2309000	0	0	0	0	0	0
QVSITGFFQR	POLD3; POLD3	Q15054; H0YEX7	DPOD3_HUM	Unmodified	641530	607670	0	0	0	0	0	0	0
QVTITGSAASISLAQYLINAR	PCBP1	Q15365	PCBP1_HUM	Unmodified	450180	138330	266620	0	0	0	0	0	0
QVTPDGESDEVGVIPSKR	DLG1; DLG1; DLG1	Q12959; A0A590	DLG1_HUMA	Unmodified	2292600	1265100	2752700	194510	148250	190490	0	0	0
QVTSNSLSGTQEDGLDDPRLEK	LRPAP1; LRPAP1	P30533; A0A3B3	AMRP_HUM	Deamidation (N)	1574300	1593900	717500	21215	0	0	0	0	0
QVVAGLNFR	KNG1	P01042	KNG1_HUMA	Unmodified	2880400	2328900	3082600	77710	20011	45739	0	0	0
QVVESAYEVIK	LDHA	P00338	LDHA_HUMA	Unmodified	3024400	2257500	2381200	0	0	0	0	0	0
QVVILSQDSFYR	UCK2; UCK2	Q9BZX2; A0A2R	UCK2_HUMA	Unmodified	785380	836200	417720	0	0	0	0	0	0
QVVLYSIR	FAM91A1; FAM91A	Q658Y4; E7ER68	F91A1_HUM	Unmodified	1710700	1740500	1354700	0	0	0	0	0	0
QVVNIPSFIVR	RPS9	P46781	RS9_HUMAN	Unmodified	3800400	2824800	3790700	36030	0	27530	20548	28514	24344
QVVPVSSHR	NUP210	Q8TEM1	PO210_HUM	Unmodified	1096900	0	600140	0	0	0	0	0	0
QVVQGLLSETYLEAHR	MCM7	P33993	MCM7_HUM	Unmodified	2397500	1843700	2446200	0	0	0	0	0	0
QVVQTPNTVLSTPFR	CDC5L	Q99459	CDC5L_HUM	Deamidation (N)	1831000	1796800	1385500	21730	23760	0	0	0	0
QVVQTPNTVLSTPFR	CDC5L	Q99459	CDC5L_HUM	Unmodified	1495200	1457300	1858200	0	0	64877	0	0	0
QVVQTPNTVLSTPFRTPSNGAEGLTPR	CDC5L	Q99459	CDC5L_HUM	2 Deamidation (N)	1891000	866440	0	0	0	0	0	0	0
QVVQTPNTVLSTPFRTPSNGAEGLTPR	CDC5L	Q99459	CDC5L_HUM	Deamidation (N)	0	2089000	0	36985	0	0	0	0	0
QWVDTDDTSSENTVVPPETYVK	RPA2; RPA2	P15927; Q5TEJ7	RFA2_HUMA	Unmodified	1180000	1331300	1333100	0	0	0	0	0	0
QWVDTDDTSSENTVVPPETYVK	RPA2; RPA2	P15927; Q5TEJ7	RFA2_HUMA	Deamidation (N)	0	0	1263000	0	0	0	0	0	0
QYAGYDYSQQGR	YIPF5	Q969M3	YIPF5_HUMA	Unmodified	694100	754590	757310	63928	76448	97586	0	0	0
QYALDRMQFGVPLAR	GCDH	Q92947	GCDH_HUM	Oxidation (M)	3683700	3683100	3148200	92211	75197	64313	0	0	0
QYASLTGTQALPPLFSLGYHQSR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	5789400	6123500	0	0	0	0	0	0	0
QYDAGRDGFIDLMELK	EFHD2; EFHD2	Q96C19; H0Y4Y4	EFHD2_HUM	Oxidation (M)	2633200	2510300	3569800	0	0	0	33196	0	17102
QYDEALNK	PRKDC	P78527	PRKDC_HUM	Unmodified	1605100	1712300	1354300	0	13949	0	0	0	0
QYDGIFYEFR	NIPSNAP3A	Q9UFN0	NPS3A_HUM	Unmodified	12956000	15879000	12740000	247130	201380	152790	0	0	0
QYDIDDAIAK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2834400	1731100	1355800	185330	185110	243300	0	0	0
QYDISDPQRPR	SELENBP1; SELENI	Q13228; H0Y532	SBP1_HUMA	Unmodified	722580	816010	848290	335260	293330	305940	0	11231	0
QYEMGECTR	U2AF1; U2AF1L5; U	Q01081; P0DN76;	U2AF1_HUM	Oxidation (M)	0	1078400	277430	0	0	0	0	0	0
QYESLPATHIR	MTA3; MTA3; MTA:	Q9BTC8; E9PCS8	MTA3_HUM	Unmodified	1197400	0	1430600	0	0	0	0	0	0
QYFEEIQR	NCOA5; NCOA5	Q9HCD5; Q5JY17	NCOA5_HUM	Unmodified	1868200	2230000	1994200	0	0	0	0	0	0
QYFHQLEK	LRPPRC	P42704	LPPRC_HUM	Unmodified	745980	935690	0	0	0	0	0	0	0
QYFPNDEDQVGAAK	P4HA1	P13674	P4HA1_HUM	Unmodified	0	1204300	1963400	0	0	0	0	0	0
QYGNEVFLAK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	1055000	806320	1891500	0	0	39526	0	0	0
QYGNEVFLAK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Deamidation (N)	0	0	1013800	0	0	0	0	0	0
QYHEQEETPEMMAAR	EPS8; EPS8; EPS8	Q12929; A0A2R8	EPS8_HUMA	2 Oxidation (M)	795810	1304400	735160	0	110840	0	0	0	0
QYKIPDWFLNR	RPS18; RPS18	P62269; J3JS69	RS18_HUMA	Unmodified	4445500	3144800	3257700	0	0	0	0	0	0
QYKIPDWFLNR	RPS18; RPS18	P62269; J3JS69	RS18_HUMA	Methyl (KR)	696310	452640	511540	0	0	0	0	0	0
QYKIPDWFLNR	RPS18; RPS18	P62269; J3JS69	RS18_HUMA	Deamidation (N)	315550	273450	283810	0	0	0	0	0	0

QYNGVPLDGRPMNIQLVTSQIDAQR	ALYREF; ALYREF	Q86V81; E9PB61	THOC4	HUM	Oxidation (M);Deai	17851000	13776000	11971000	0	0	0	0	0	0
QYNVGPSVSKYPLR	FN1	P02751	FINC	HUMA	Unmodified	5717600	4949000	3663600	250860	198870	219840	0	0	0
QYPISLVLAPTR	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X	HUM	Unmodified	1074400	0	1177400	0	0	0	0	0	0
QYQIDAAIVR	CUL4B; CUL4A; CU	Q13620; Q13619;	CUL4B	HUM	Unmodified	1467900	4075300	4167500	0	17051	0	0	0	0
QYSLQNWEAR	GSS; GSS; GSS; GSS	P48637; A0A2R8	GSHB	HUMA	Unmodified	1887700	2570900	2127900	0	0	0	0	0	0
QYTDSTFRVPVER	CP; CP; CP	P00450; E9PFZ2;	CERU	HUMA	Unmodified	2353800	2319500	2797500	191730	176000	227090	33328	27451	20647
QYTESQLR	TP53BP1; TP53BP1;	Q12888; H7C495;	TP53B	HUM	Unmodified	528810	509750	0	0	0	0	0	0	0
QYTGINAISKK	ACTR3; ACTR3	P61158; B4DXW1	ARP3	HUMA	Deamidation (N)	1017100	1015200	1079500	23416	0	0	0	0	0
QYTSPEEIDAQLQAEKQK	PDAP1; PDAP1	Q13442; F8WBW	HAP28	HUM	Unmodified	2426900	0	2291500	168250	220060	234000	0	0	0
QYVIPGMFK	ACO1	P21399	ACOC	HUM	Oxidation (M)	2126400	2349300	2011700	16881	0	0	0	0	0
QYYEGSEIVVAGR	ITIH1; ITIH1	P19827; H7C0N0	ITIH1	HUM	Unmodified	770500	650880	681580	0	0	0	0	0	0
QYYTLLNKAPEYLHR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2	HUM	Unmodified	723650	709830	660820	0	0	0	0	0	0
QYYTLLNQAPDMLHR	G3BP1; G3BP1; G3B	Q13283; A0A7I2	G3BP1	HUM	Oxidation (M)	5402300	3925600	2209000	0	0	0	0	0	0
QYYTLLNQAPDMLHR	G3BP1; G3BP1; G3B	Q13283; A0A7I2	G3BP1	HUM	Oxidation (M);Deai	2109900	1871400	1645300	0	0	0	0	0	0
RAAATQPDAKDTPDEPWAFPAR	SND1	Q7KZF4	SND1	HUMA	Unmodified	1035500	3129900	3909000	0	0	0	0	0	0
RAAATQPDAKDTPDEPWAFPAREFLR	SND1	Q7KZF4	SND1	HUMA	Unmodified	3548000	2058100	2489900	0	0	0	0	0	0
RAAEDDEDDDVDTK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA	HUM	Unmodified	316700	2643400	2597200	0	0	0	0	0	0
RAAEDDEDDDVDTKK	PTMA; PTMA; PTM	P06454; H7C2N1	PTMA	HUM	Unmodified	6997600	10066000	6515700	91827	57321	0	0	0	0
RAAEEEDEADPKR	PTMS	P20962	PTMS	HUMA	Unmodified	4492900	4020200	4201400	141240	81273	28683	0	0	0
RAAELGAR	GSR; GSR; GSR	P00390; H0YC68;	GSHR	HUMA	Unmodified	1479100	1440600	1222200	2126300	1452300	1433900	18089	0	0
RAALDER	SAFB; SAFB	Q15424; K7EII0	SAFB1	HUM	Unmodified	772760	1070400	795890	0	0	74392	0	0	0
RAASAATAAPTATPAAQESGTIPK	AGPS; AGPS; AGPS;	O00116; A0A7P0	ADAS	HUMA	Unmodified	0	1129100	1062400	0	81007	72671	0	0	0
RAAVAASSSS	RPL37	P61927	RL37	HUMA	Unmodified	3492200	2561000	4280800	578550	737050	764170	0	104640	42271
RADLNQGIGEPQSPSR	EFHD2	Q96C19	EFHD2	HUM	Unmodified	10559000	7778000	9089500	237830	168290	213190	45250	0	44761
RADLNQGIGEPQSPSR	EFHD2	Q96C19	EFHD2	HUM	Deamidation (N)	4244400	2700900	2669400	35431	40341	41696	0	0	0
RADLNQGIGEPQSPSRR	EFHD2	Q96C19	EFHD2	HUM	Deamidation (N)	8405300	8624800	7897600	160430	235640	203700	23167	27129	0
RADVLAFPSSGFTDLAEIVSR	PNPLA6; PNPLA6	Q8IY17; A0A384	PLPL6	HUM	Unmodified	315740	212220	407290	0	0	0	0	0	0
RAEAEKQLQQAQAAGAEQEVEK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Unmodified	2638600	2527200	1428900	0	0	0	0	0	0
RAEAEKQLQQAQAAGAEQEVEKFTK	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUMA	Unmodified	14519000	10295000	10913000	0	0	0	0	0	0
RAEDGSVIDYELIDQDAR	ANXA2; ANXA2; AN	P07355; H0YN28;	ANXA2	HUM	Unmodified	7037900	4772100	2246700	1268100	1016700	691140	99532	70557	46340
RAEEIWQQSVIGDYLAR	UBTF; UBTF; UBTF	P17480; E9PLT2;	UBF1	HUMA	Unmodified	2654100	3273300	2370300	0	0	0	0	0	0
RAEFTVETR	FLNA; FLNA; FLNA;	P21333; A0A7I2	FLNA	HUMA	Unmodified	1992600	2110300	1286200	462740	453400	418650	378020	94808	0
RAELEMWLQGHPEFAVDPR	CHD8; CHD8	Q9HCK8; H0YJG	CHD8	HUMA	Oxidation (M)	0	352730	312010	0	0	0	0	0	0
RAEQEAQAPHWWR	MRPL38	Q96DV4	RM38	HUMA	Unmodified	536660	823960	645620	0	0	0	0	0	0
RAEQRR	HLA-H	P01893	HLAH	HUM	2 Methyl (KR)	0	672290	0	0	0	0	0	0	0
RAFVHWYVGEGMEEGEFSEAR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Oxidation (M)	4160500	1181100	3705900	0	0	0	0	0	0
RAGDLLEDSPK	HDGF	P51858	HDGF	HUMA	Unmodified	0	684260	0	0	0	0	0	0	0
RAGELTEDEVER	RPS18	P62269	RS18	HUMA	Unmodified	9079000	7709200	6180300	263650	254170	172540	0	0	0
RAGELTEDEVERVITIMQNPR	RPS18	P62269	RS18	HUMA	Oxidation (M)	4456300	1912000	2121000	0	0	0	0	0	0
RAIEKLAVEALSSLDGDLAGR	CKB; CKB	P12277; G3V4N7	KCRB	HUM	Unmodified	1295300	786990	870970	0	0	0	0	0	0
RALDDTAR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	0	1005600	1542300	132580	156990	68607	0	0	0
RALDDTARER	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	2044300	1584600	1147900	107390	77931	76889	17686	0	0
RALEYTIYNQELNETR	SMC3	Q9UQE7	SMC3	HUMA	Unmodified	1121800	1493400	969800	0	0	0	0	0	0
RALVEFESNPEETREPGSPPSVQR	CCDC86; CCDC86	Q9H6F5; H0YG75	CCD86	HUM	Unmodified	2266200	1880700	1499200	155000	140740	123230	0	0	0
RAMADPEVQQIMSDPAMR	STIP1; STIP1	P31948; H0YGI8	STIP1	HUMA	3 Oxidation (M)	12192000	11199000	12166000	727840	0	454640	0	0	0
RAMAGLGQPLPQEELDAMIR	CALML5	Q9NZT1	CALL5	HUM	2 Oxidation (M)	599790	488080	589150	0	0	0	0	0	0
RAPAFEGR	PIGR	P01833	PIGR	HUMA	Unmodified	0	0	0	426690	417070	587450	0	0	0
RAPDQAAEIGSR	TIMM50; TIMM50; T	Q3ZCQ8; M0R30	TIM50	HUM	Unmodified	5033400	4222800	6395500	247890	278790	253280	29350	27621	11653
RAPEEELPPLDPEEIR	RAVER1; RAVER1;	Q8IY67; E9PAU2	RAVR1	HUM	Unmodified	1201500	798960	961990	27045	0	0	0	0	0
RAPEEELPPLDPEEIRK	RAVER1; RAVER1;	Q8IY67; E9PAU2	RAVR1	HUM	Unmodified	6434400	4718200	3661100	43726	43284	129560	0	0	0
RAPFDLFENK	HSP90AB1; HSP90A	P08238; Q58FF7	HS90B	HUM	Unmodified	3996100	2995100	3732400	36833	19186	21022	0	0	0
RAPFDLFENR	HSP90AA1	P07900	HS90A	HUM	Unmodified	16062000	14280000	12035000	202340	200990	191290	0	12042	14705
RAPFDLFENR	HSP90AA1	P07900	HS90A	HUM	Deamidation (N)	2764100	1575800	4594700	0	0	0	0	0	0
RAPFDLFENRK	HSP90AA1	P07900	HS90A	HUM	Unmodified	1593400	1084000	1447200	0	30366	0	0	0	0
RAQADLAYQLQVAK	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1	HUM	Unmodified	1092300	1030600	917320	146650	0	0	0	0	0
RASGQAFELILSPR	STMN1; STMN1	P16949; A2A2D0	STMN1	HUM	Unmodified	14116000	14517000	12614000	85799	73497	74925	0	0	0
RASMQPIQIAEGTGITTR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	1460000	1210000	997720	152540	164150	131950	32159	0	27189
RATASEQPLAQEPPASGGSPATTK	LAD1; LAD1	O00515; E9PDJ4	LAD1	HUM	Unmodified	392800	506850	508250	0	0	0	0	0	0
RATDEMK	IFT81; IFT81	Q8WYA0; H0YHI	IFT81	HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
RATVLESEGTRESAINVAEGKK	STOML2; STOML2;	Q9UJZ1; A0A087	STML2	HUM	Unmodified	846710	1506100	1164800	82474	0	0	0	0	0
RATVVESSEK	YWHAG	P61981	1433G	HUM	Unmodified	811440	334910	515210	89178	83109	13574	0	0	0
RAVGPSSTQACQWSPR	CYFIP2	Q96F07	CYFP2	HUM	Unmodified	0	594260	0	0	0	0	0	0	0
RCEPIAMTVPR	CORO1A; CORO1A	P31146; H3BRY3	COR1A	HUM	Oxidation (M)	0	730960	732010	0	23411	0	0	0	0
RCESCAPGYEGNPIQPGGK	HSPG2	P98160	PGBM	HUM	Unmodified	248780	0	0	124290	113800	104440	60515	61528	58756
RCQDLR	FBN1; FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	0	0	0	0	6658.6	0	147600	398300	143730
RDDGTGQLLLPLSDAR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	596680	424050	710370	82934	17926	26492	0	0	0
RDDPAARMSR	KHDRBS1	Q07666	KHDR1	HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
RDDSTKLELALTGGEAK	AKAP1; AKAP1; AK	Q92667; B3L2A2;	AKAP1	HUM	Unmodified	1547300	554470	1397600	0	0	0	0	0	0
RDDVEPAPWTSEGIER	UHRF2	Q96PU4	UHRF2	HUM	Unmodified	890110	656940	616520	0	0	0	0	0	0
RDEPTGEVLSLVGKLEGTR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUM	Unmodified	4162700	2569900	3028300	0	0	0	0	0	0
RDEQILAQLLPLLHGNVNGSK	CHAF1A	Q13111	CAF1A	HUM	Deamidation (N)	196250	127960	146370	0	0	0	0	0	0
RDHALLEEQSK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	835120	497000	723810	0	0	0	0	0	0
RDHFEEAMR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Oxidation (M)	2947900	2573500	1035300	0	0	102670	14515	0	18757
RDHVFEDSYRELHR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUM	Unmodified	1067200	855030	688440	0	0	0	0	0	0
RDIEDIPYV	TCEAL4; TCEAL4	Q96EI5; A2RQR6	TCAL4	HUM	Unmodified	3783300	3138200	3046800	290210	288740	312990	34144	29705	29199
RDLEGSDIDTR	CSE1L	P55060	XPO2	HUMA	Unmodified	1101000	1188700	702910	0	0	0	0	0	0
RDLESLREYVESQLQR	TXNDC5	Q8NBS9	TXND5	HUM	Unmodified	275140	194520	369670	0	0	0	0	0	0
RDNNELLLFILK	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Deamidation (N)	150990	160190	261030	0	0	0	0	0	0
RDNYVPEVSALDQEIIEVDPDTKEMLK	RPS17; RPS17; N/A;	P08708; H0YN88;	RS17	HUMA	Oxidation (M)	5519500	4920000	3641800	0	0	0	0	0	0
RDNYVPEVSALDQEIIEVDPDTKEMLK	RPS17; RPS17; N/A;	P08708; H0YN88;	RS17	HUMA	Oxidation (M);Deai	0	0	1857300	0	0	0	0	0	0
RDPHLACVAYER	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Unmodified	1545600	1465800	1177400	83771	0	147980	0	0	0
RDQALTEEHAR	ACTN1; ACTN1; AC	P12814; A0A7I2	ACTN1	HUM	Unmodified	5213900	5135400	5047000	366830	378530	261900	88293	102270	84083
RDYDDMSPR	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	407420	584080	1803300	0	0	0	0	0	0
RDYLKEAVTTLK	LRPPRC	P42704	LPPRC	HUM	Unmodified	1610800	0	1348000	0	0	0	0	0	0
RDYLLLVMEGTDDGR	APMAP; APMAP	Q9HDC9; H0Y51	APMAP	HUM	Oxidation (M)	872050	451380	693160	0	0	0	0	0	0
REDIQQFFEEFQSK	UBR7; UBR7; UBR7	Q8N806; H0YJM2	UBR7	HUMA	Unmodified	846790	678160	0	0	0	0	0	0	0
REDIVDTMVFKPSDVMLVHFR	ATXN2L; ATXN2L;	Q8WWM7; H3BS	ATX2L	HUM	2 Oxidation (M)	1954100	2293400	1705400	0	0	0	0	0	0
REDVWLPLISYR	STAG1; STAG1	Q8WVM7; Q6RD	STAG1	HUM	Unmodified	553240	421330	0	0	0	0	0	0	0
REEEEFNTGPLSVLTQSVK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUMA	Unmodified	3889100	2925300	3030900	0	0	0	20582	0	0
REEEEFNTGPLSVLTQSVK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUMA	Deamidation (N)	1984400	1986400	1554300	0	0	0	0	0	0
REEEFDLFMR	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	Oxidation (M)	915790	894460	906250	45590	47376	37239	0	0	0
REEEFDLFMRMDMDR	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	3 Oxidation (M)	560330	555150	463130	0	0	0	0	0	0
REELITNWEQIR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	2220100	1367400	2129100	0	0	0	0	0	0
REESEAVEAGDPPEELR	PTPN23	Q9H3S7	PTN23	HUM	Unmodified	1035600	1288400	1619100	125360	136220	140820	0	0	0
REFEVYGPIKR	SNRNP70; SNRNP70	P08621; M0QYR1	RU17	HUMA	Unmodified	861110	1427800	1203200	41304	0	82235	0	0	0
REPAEQPGDGER	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	177260	206130	162960	16156	0	10924	0	0	0
REPFLLSGGDDGALKIWDLR	GRWD1	Q9BQ67	GRWD1	HUM	Unmodified	650820	356170	594580	0	0	0	0	0	0
REPIPSLEAIYLLSPTEK	STXBP2; STXBP2; S	Q15833; M0QZ54	STXB2	HUM	Unmodified	1252000	1378200	1228700	0	0	0	0	0	0
REPLPSLEAVYLITPSEK	STXBP1; STXBP1; S	P61764; A0A0D9	STXB1	HUM	Unmodified	2152200	1901400	1632200	0	0	0	0	0	0
REPWLLPSQHNDIIR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Deamidation (N)	1510800	1157300	813160	0	0	0	0	0	0
REPWLLPSQHNDIIRDALGQR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Deamidation (N)	981730	1367400	856390	0	0	0	0	0	0
RETEEKMRR	DIAPH1; DIAPH1; DI	O60610; A0A0G2	DIAP1	HUM	2 Methyl (KR)	3671500	0	4046900	0	0	0	0	0	0
REYYFAITMER	SUCLA2; SUCLA2; S	Q9P2R7; A0A2R8	SUCB1	HUM	Oxidation (M)	1627400	1108000	881250	0	50865	50016	0	12277	0
RFDAMPFTLR	PA2G4	Q9UQ80	PA2G4	HUM	Oxidation (M)	6448200	777760	7724200	110660	118380	86360	0	0	0
RFDDAVVQSDMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M)	8784400	6239900	8382400	94488	0	94973	0	0	0
RFDDAVVQSDMKHWPFMVVNDAGRPK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	2 Oxidation (M);De	32491000	34715000	34477000	0	0	0	0	0	0
RFDDAVVQSDMKHWPFMVVNDAGRPK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	2 Oxidation (M)	1061300	3949900	4786100	0	0	0	0	0	0
RFDDPGLMLMGFKPLVLLK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	2 Oxidation (M)	667250	957320	0	0	0	0	0	0	0
RFDEILEASDGIMVAR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM	HUM	Oxidation (M)	50682000	57678000	46272000	169010	27228	0	74007	42970	32696
RFDVSGYPTLK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	6876000	6572400	6158700	280390	100540	276160	0	0	0
RFEKPLEEK	SERBP1	Q8NC51	PAIRB	HUM	Unmodified	1647600	1000400	1714600	69829	79992	94590	0	0	0
RFFMGNQVLK	XRCC5	P13010	XRCC5	HUM	Oxidation (M);Deai	725100	812040	831150	0	0	0	0	0	0
RFPDGIPLLDPIDDMGIQDQGLK	MTREX	P42285	MTREX	HUM	Oxidation (M)	0	332950	0	0	0	0	0	0	0
RFPGSLAAVDQDGPR	NUDT14	O95848	NUD14	HUM	Unmodified	1595400	2743200	2499100	0	0	0	0	0	0
RFPGSMEGFVTLDEVGDEEDSELQK	MATR3	A8MXP9	A8MXP9	HUM	Oxidation (M)	0	1009700	1171800	0	0	0	0	0	0
RFPGYDSESK	RPL5; RPL5	P46777; A0A2R8	RL5	HUMA	Unmodified	1015800	696930	820130	65394	48618	52584	0	0	0
RFPGYDSESKEFNAEVHR	RPL5; RPL5	P46777; A0A2R8	RL5	HUMA	Unmodified	3341000	3322300	3120200	97741	0	30168	0	0	0
RFPGYDSESKEFNAEVHR	RPL5; RPL5	P46777; A0A2R8	RL5	HUMA	Deamidation (N)	514310	1678800	925970	0	0	0	0	0	0
RFPGYDSESKEFNAEVHRK	RPL5; RPL5	P46777; A0A2R8	RL5	HUMA	Unmodified	5252600	6516600	12158000	0	0	78204	0	0	0
RFPGYDSESKEFNAEVHRK	RPL5; RPL5	P46777; A0A2R8	RL5	HUMA	Deamidation (N)	798720	1561000	1626000	47681	0	0	0	0	0
RFPVAPLIPYPLITK	RBM25; RBM25	P49756; H0YE46	RBM25	HUM	Unmodified	1022100	932990	1176500	0	0	0	0	0	0
RFQDAVR	PFKP; PFKP; PFKP	Q01813; A0A7I2	PFKAP	HUM	Unmodified	1320600	1647600	0	0	0	0	0	0	0
RFQLLEGPPESMGR	GDI1; GDI1	P31150; G5E9U5	GDIA	HUMA	Oxidation (M)	4494600	4359400	3477100	67584	77704	73755	0	0	0
RFQSVESGANNVVFIR	THUMPD1; THUMP	Q9NXG2; H3BNV	THUM1	HUM	Deamidation (N)	1819200	1964000	2184200	148240	0	155240	23476	0	19235
RFSMVVQDGIVK	PRDX5	P30044	PRDX5	HUM	Oxidation (M)	3371500	4778400	4617300	0	0	49478	0	0	0
RFYEQMNGPVAGASR	EEF1D; EEF1D; EEF	P29692; E9PK06;	EF1D	HUMA	Oxidation (M);Deai	584380	564100	586540	0	27751	19581	0	0	0
RGALIVLEGVDR	DTYMK; DTYMK	P23919; G5E9E9	KTHY	HUM	Unmodified	3047000	2509300	2723900	62120	73070	0	0	0	0
RGATELTHEDYMEGILEVQAK	PSMC3; PSMC3; PSI	P17980; E9PM69;	PRS6A	HUM	Oxidation (M)	2109700	2752500	2773300	0	0	0	0	0	0
RGDALIEMESEQDVQK	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Oxidation (M)	1648400	733910	707550	0	229880	134840	0	0	0
RGDALIEMESEQDVQKALEK	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Oxidation (M)	1967600	1667400	4029600	0	0	0	0	0	0
RGDFIPGLR	PDHA1	P08559	ODPA	HUM	Unmodified	657860	571800	0	9465.2	34937	0	0	0	0
RGDIIGVQGNPGK	KARS1; KARS1; KA	Q15046; H3BVA8	SYK	HUMAN	Unmodified	1657600	1556600	1459100	0	0	0	0	0	0

RGDINLLMLGDPGTAK	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Oxidation (M)	8802800	6620300	6561500	28924	0	0	0	0	0
RGDLPFVVPR	MYH9	P35579	MYH9_HUM	Unmodified	9083200	5808800	7480900	313880	322240	328770	265600	0	0
RGDMSSNPAKETFTTGLDAPR	TNC; TNC; TNC; TN	P24821; F5H7V9;	TENA_HUMA	Oxidation (M)	0	0	0	0	24013	0	513430	266480	500520
RGDTWHDRDR	NXF1; NXF1; NXF1;	Q9UBU9; E9PMV	NXF1_HUMA	3 Methyl (KR)	834250	1289400	1506000	0	9768.5	0	0	0	0
RGDTYELQVR	MAGT1; MAGT1	Q9H0U3; A0A087	MAGT1_HUM	Unmodified	2276400	3973100	1716300	253690	271690	182250	0	0	0
RGEAHLAVNDFELAR	FKBP4	Q02790	FKBP4_HUM	Deamidation (N)	12139000	13093000	12879000	179300	190560	65368	0	0	0
RGEAHLAVNDFELAR	FKBP4	Q02790	FKBP4_HUM	Unmodified	8134200	8316500	8127600	482180	0	394660	15707	16246	20507
RGEAPFAQR	COA3; COA3	Q9Y2R0; K7EPV(	COA3_HUMA	Unmodified	1921100	2200500	1640300	0	156490	0	0	0	0
RGEAQLLMNEFESAK	FKBP5	Q13451	FKBP5_HUM	Oxidation (M);Deai	2811800	1227300	2183600	12568	0	0	0	0	0
RGEAQLLMNEFESAKGDFEK	FKBP5	Q13451	FKBP5_HUM	Oxidation (M)	1112900	859240	839260	0	0	0	0	0	0
RGEAQLLMNEFESAKGDFEK	FKBP5	Q13451	FKBP5_HUM	Oxidation (M);Deai	2457900	760040	463980	0	0	0	0	0	0
RGEAQLLMNEFESAKGDFEKVLEVNPQNK	FKBP5	Q13451	FKBP5_HUM	Oxidation (M);Deai	1180900	1026000	1010700	0	0	0	0	0	0
RGEEGHDPKEPEQLR	HNRNPA3; HNRNP/	P51991; A0A7Z\	ROA3_HUMA	Unmodified	36147000	33392000	36665000	62715	1543200	1318900	0	309500	0
RGEEGHDPKEPEQLRK	HNRNPA3; HNRNP/	P51991; A0A7Z\	ROA3_HUMA	Unmodified	29027000	11493000	12931000	0	0	632720	0	0	0
RGEFCIAK	SND1; SND1	Q7KZF4; H7C597	SND1_HUMA	Unmodified	322080	321830	383400	107120	87158	119050	0	0	0
RGEIIDNDTEEEFYLR	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1_HUM	Deamidation (N)	1776000	639610	735210	0	0	0	0	0	0
RGERPDYKGEEELR	SRRM2; SRRM2; SR	Q9UQ35; I3L4D8;	SRRM2_HUM	Unmodified	1429700	1640600	0	115670	124290	105520	0	0	0
RGFAFVTFDDHDSVDK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Unmodified	603580	816910	955900	0	0	0	0	0	0
RGFAFVTFDDHDTVDK	HNRNPA3; HNRNP/	P51991; A0A7Z\	ROA3_HUMA	Unmodified	1386400	1157000	1010500	0	0	0	0	0	0
RGFAFVTFDDHDTVDKIVVQK	HNRNPA3; HNRNP/	P51991; A0A7Z\	ROA3_HUMA	Unmodified	0	1486100	4490900	0	0	0	0	0	0
RGFCFITYTDEEPVKK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	2550900	1825800	2318300	0	0	0	0	0	0
RGFGFVTFDDHDPVDK	HNRNPA2B1; HNRN	P22626; A0A7Z\	ROA2_HUMA	Unmodified	3984100	6035100	5225900	0	0	21696	0	0	0
RGFGFVTFDDHDPVDKIVLQK	HNRNPA2B1; HNRN	P22626; A0A7Z\	ROA2_HUMA	Unmodified	49890000	37647000	34049000	0	0	0	0	0	0
RGFGFVTFDDHDPVDKIVLQK	HNRNPA2B1; HNRN	P22626; A0A7Z\	ROA2_HUMA	Methyl (KR)	1014000	1292300	0	0	0	0	0	0	0
RGFPGYMYTDLATIYER	ATP6V1B2; ATP6V1	P21281; P15313; (	VATB2_HUM	Oxidation (M)	1768000	1740600	1710000	0	0	0	0	0	0
RGFVFITFKEEEPVKK	HNRNPAB; HNRNP/	Q99729; D6R9P3;	ROAA_HUM	Unmodified	1500400	1308000	1061800	0	0	0	0	0	0
RGGADTYSVPSVLSPR	NID1	P14543	NID1_HUMA	Unmodified	0	0	444770	448350	358020	306100	75137	63662	90375
RGGPNYQEGLR	ACLY; ACLY	P53396; K7EIE7	ACLY_HUM/	Unmodified	2162900	2047000	1453400	74211	92312	0	0	0	0
RGGPPFAFVEFEDPR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	1354800	951680	961900	0	0	9749.7	0	0	0
RGHVFEESQVAGTPMFVVK	EEF2	P13639	EF2_HUMAN	Oxidation (M)	5964800	5158000	6686200	51602	119780	41721	0	0	0
RGIGGIFFDDLDSPSKEEVFR	CPOX	P36551	HEM6_HUM/	Unmodified	1201600	0	642880	0	0	0	0	0	0
RGILTLKYPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133; I	ACTC_HUMA	Oxidation (M)	7354300	5647400	5377700	0	0	0	0	0	0
RGKNENESEKR	EIF1AY; EIF1AX; EI	O14602; P47813;	IF1AY_HUM/	2 Deamidation (N)	437550	225550	578780	30133	38299	33315	0	0	0
RGLDDDRGPWR	EIF3A	Q14152	EIF3A_HUM/	Unmodified	709640	897630	926770	0	0	27182	0	0	0
RGLDVNKCEIAR	CORO1C; CORO1C;	Q9ULV4; H0YHL	COR1C_HUM	Unmodified	1095900	1182000	924840	17094	0	20758	0	0	0
RGLGAGAGAGEESPATSLPR	PGRMC2	O15173	PGRC2_HUM	Unmodified	2683100	2471800	3692000	102030	119520	178660	0	0	21335
RGNVAGDSK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Unmodified	276510	0	852560	0	0	0	0	0	0
RGNVAGDSK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	Deamidation (N)	0	47549	36278	0	0	0	0	0	0
RGPFELEAFYSDPQGVPYPEAK	HSPH1; HSPH1	O92598; A0A0A0	HS105_HUM	Unmodified	8568300	4872300	6060400	0	0	0	0	0	0
RGPGATGIGTPAAGPGEER	ADRA2A	P08913	ADA2A_HUM	Unmodified	1746300	1301700	1595600	0	0	0	0	0	0
RGSNTTSHLHQAVAK	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Deamidation (N)	0	871160	536420	0	0	0	0	0	0
RGTGGVDTAATGGVFDISNLDR	CKMT1A	P12532	KCRU_HUM/	Unmodified	748770	924270	857490	0	0	0	0	0	0
RGTGGVDTAAVGGVFDVSNADR	CKB; CKB	P12277; H0YJG0	KCRB_HUM/	Unmodified	4595800	4310600	4361800	71186	30795	37704	0	14041	34817
RGVHKEGSLGDELLPLGYSEPEQQEGASAGAPSPTLELASR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	2096900	2109200	2365200	0	0	0	0	0	0
RGVITDQNSDGYCQTGTMSR	DSP	P15924	DESP_HUMA	Oxidation (M);Deai	830000	757530	978220	87913	87404	61984	0	0	0
RGVMLAVDAVIAELKK	HSPD1; HSPD1; HSP	P10809; A0A7Z\	CH60_HUMA	Oxidation (M)	1249500	0	0	0	0	0	0	0	0
RGVSGDRDENSFSLNSSISSSAR	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	2 Deamidation (N)	0	1134800	543600	0	0	0	0	0	0
RGWVEKKMVHR	TTLL3; ARPC4-TTL	Q9Y4R7; A0A0A(	TTLL3_HUM	Oxidation (M);2 M	0	137970	0	0	0	0	0	0	0
RHAEQERDELADEITNSASGK	MYH10	P35580	MYH10_HUM	Deamidation (N)	470010	673520	497310	0	0	85316	0	0	0
RHEAAVPPLAIPSARPEK	ZC3H14; ZC3H14; Z	Q6PJT7; G3V3Y4	ZC3HE_HUM	Unmodified	854490	877290	689820	0	0	0	0	0	0
RHEDGEFWMSFSDFLR	CAPN2	P17655	CAN2_HUMA	Oxidation (M)	318540	262780	0	0	0	0	0	0	0
RHEILQWVLQTDSQQ	LRRC59	Q96AG4	LRC59_HUM	Unmodified	1511600	1108400	885900	0	0	0	0	0	0
RHEMPPHIYAITDTAYR	MYH9; MYH9	P35579; Q5BKV1	MYH9_HUM/	Oxidation (M)	559520	593820	910850	0	0	0	0	0	0
RHVFGESDELIGQK	TPI1; TPI1; TPI1; TPI	P60174; U3KPS5;	TPIS_HUMA	Unmodified	3349300	4746500	3553800	0	0	0	0	0	0
RIALTDNALIAR	RPL7; RPL7	P18124; A8MUD5	RL7_HUMAN	Unmodified	536430	424090	300860	0	25085	0	0	0	0
RIDDSTVAGVAFAR	ARFGEF3	Q5TH69	BIG3_HUMA	Unmodified	0	0	0	174260	0	0	0	0	0
RIDEINKELNQVMEQLGDAR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Oxidation (M)	1579100	1014300	906260	0	0	0	0	0	0
RIDQSKFQETEFLSPPR	TMPO	P42166	LAP2A_HUM	Unmodified	438010	655410	503580	0	0	0	15997	0	0
RIDTPSLEEPSDLEELEQFAK	POU2F1; POU2F1	P14859; A0A0C4I	PO2F1_HUM	Unmodified	6405000	5315100	1992300	0	0	0	0	0	0
RIEDNLPAGEE	TRAPPC3; TRAPPC	O43617; A0A087	TPPC3_HUM	Unmodified	4949900	6109100	5236500	144450	74725	242780	0	0	0
RIEELNKTANGNVEAK	MTA1; MTA2; MTA	Q13330; O94776;	MTA1_HUM/	Deamidation (N)	1320700	1359300	688780	0	0	0	0	0	0
RIEEMEDELQKTER	MIA3	Q5JRA6	TGO1_HUMA	Oxidation (M)	0	0	513150	210590	208610	208280	0	0	0
RIEFAEQINK	PNN	Q9H307	PININ_HUMA	Unmodified	148700	1353300	1220900	50807	51328	0	0	0	0
RIEGSGDQVDTLELSGGAR	DNM2; DNM2	P50570; K7EMQ3	DYN2_HUMA	Unmodified	1319700	522790	971090	0	0	0	0	0	0
RIEPADAHVLQK	NAA50; NAA50; NA	Q9GZZ1; A0A087	NAA50_HUM	Unmodified	1110900	1548600	1350800	30001	39094	31602	0	0	0
RIGIFGQDEDVTSK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2_HUM	Unmodified	2682700	2518900	2122000	0	94123	91753	0	0	0
RIHNGESMSYLFR	PRPSAP2; PRPSAP2	O60256; I3L0S1	KPRB_HUMA	Oxidation (M);Deai	613040	469900	322860	0	0	0	0	0	0
RIHQESELHSYLSR	STUB1; STUB1; STU	Q9UNE7; H3BUD	CHIP_HUMA	Unmodified	1775300	1273400	1123400	0	0	0	0	0	0
RILELDQFKGQGQQK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	1133200	5193200	2439900	121160	83731	110290	0	0	0
RILELSGSSSEDSEK	PRKDC	P78527	PRKDC_HUM	Unmodified	2234500	5260400	3244200	120330	0	0	0	0	0
RILELSGSSSEDSEKVIAGLYQR	PRKDC	P78527	PRKDC_HUM	Unmodified	3227500	2587200	3065500	0	0	0	0	0	0
RINDEIER	GNAQ	P50148	GNAQ_HUM/	Unmodified	1656000	159910	210330	153340	186200	172220	0	0	0
RINMVEELEK	KARS1	Q15046	SYK_HUMAN	Oxidation (M);Deai	0	0	1697300	0	0	0	0	0	0
RIPEFSSFVVR	DARS2; DARS2; DAI	Q6PI48; A0A3B3I	SYDM_HUM	Unmodified	12503000	13684000	11450000	134440	119790	104930	0	0	0
RIPHTDPVDYEFQWGPR	NSMCE3	Q96MG7	NSE3_HUMA	Unmodified	317550	0	0	0	0	0	0	0	0
RIPIEDGSGEVVLSR	C3	P01024	CO3_HUMAN	Unmodified	681070	1756600	1641600	55416	0	0	0	0	0
RIPIHNEDITYDELVLMMQR	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	2 Oxidation (M)	5368600	4137700	3999600	0	0	0	0	0	0
RIPIHNEDITYDELVLMMQR	TFG; TFG; TFG; TFG	Q92734; A0A6Q8	TFG_HUMAN	2 Oxidation (M);De	0	0	0	0	0	0	0	0	0
RIPLAEWESR	UQCRC1	P31930	QCR1_HUMA	Unmodified	10929000	11987000	14827000	202040	164800	132810	44704	0	0
RIPVSQPGMADPHQLFDDTSSAQSR	YIF1B; YIF1B; YIF1I	Q5BJH7; K7ERY2	YIF1B_HUM/	Oxidation (M)	0	1864100	1978900	104140	103860	86317	0	0	0
RIQYQLVDISQDNALRDEMR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3_HUM	Oxidation (M)	4576400	0	3065800	0	0	0	0	0	0
RITSPLMEPSSIEK	PSMA5	P28066	PSA5_HUMA	Oxidation (M)	0	1563200	1221700	0	0	63696	0	0	0
RIVAVTGAEAQK	AARS1; AARS1; AAI	P49588; A0A6Q8I	SYAC_HUMA	Unmodified	819850	0	0	0	0	0	0	0	0
RIVDGKVVSETNDTK	KRT18	P05783	K1C18_HUM	Deamidation (N)	1242000	2938500	3419600	891590	695760	949590	27726	0	93722
RIVDGKVVSETNDTK	KRT18	P05783	K1C18_HUM	Unmodified	0	0	496950	776050	507590	688320	37038	0	0
RIVEQDTMPPKGVR	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X_HUM	Oxidation (M)	712410	582650	662270	0	0	56688	0	0	0
RKAMYTKDYK	ELMO2; ELMO2; EL	Q96JJ3; H0YCM7	ELMO2_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
RKASGPPVSELITK	H1-3; H1-4; H1-2	P16402; P10412; I	H13_HUMAN	Unmodified	578220	395090	499850	0	0	0	0	0	0
RKDPELWGSVLLESNPYR	CLTC; CLTC	Q00610; A0A087	CLH1_HUMA	Unmodified	787990	967880	971780	0	0	0	0	0	0
RKEDEVEEWQHR	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	6475200	5978900	7637200	191310	301300	0	0	0	14581
RKEEIEAQIK	PSMD9; PSMD9; PSI	O00233; J3KN29;	PSMD9_HUM	Unmodified	3911600	3986200	4480800	0	121570	78573	0	0	0
RKELEQVCNPIISGLYQGAGGPGPGGFGAQGPK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Unmodified	2308000	1642800	1461600	0	0	0	0	0	0
RKGDEVDGVDEVAK	PARP1; PARP1; PAR	P09874; A0A7Z\	PARP1_HUM	Unmodified	3650500	2263400	2389400	0	0	34314	0	0	0
RKGKEDEGEEAASPMLQIQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	730460	948590	1318800	68986	90419	61255	55561	20977	0
RKIQVLQQQADDAEERAER	TPM3; TPM3; TPM3	D6R904; A0A087	D6R904_HUM	Unmodified	1559700	1712800	1948400	0	0	0	0	0	0
RKLEDSTRETQSQLETER	DSP	P15924	DESP_HUMA	Unmodified	4318100	1819800	1870000	0	0	0	0	0	0
RKLHWNLSCGDFK	CTNNA2	B9A010	B9A010_HUM	Acetyl (Protein N-t	93536	147380	0	16214	0	0	0	0	0
RKMALARER	HTR1A	P08908	5HT1A_HUM	Oxidation (M);2 M	0	0	183130	0	0	0	0	0	0
RKNPAAYENDK	UQCRQ	O14949	QCR8_HUMA	Deamidation (N)	458670	566560	679740	133360	108720	158720	0	23492	22828
RKPDTIEVQQMK	RDX; EZR; MSN; RI	P35241; P15311; I	RADI_HUMA	Oxidation (M)	0	13169000	15976000	1558100	1963000	1447300	0	0	0
RKPVEGYDISFLITNFHTEQMYK	ARPC4; ARPC4; ARI	P59998; R4GN08;	ARPC4_HUM	Oxidation (M)	0	1193700	1206100	0	0	0	0	0	0
RKQELAETLANLER	MEAF6	Q9HAF1	EAF6_HUMA	Unmodified	1140200	1180000	971570	0	0	0	0	0	0
RKTDFFIGGEEGMAEK	NUDC; NUDC	Q9Y266; A0A0A0	NUDC_HUM/	Oxidation (M)	9292400	8508300	7594800	0	0	0	0	0	0
RKTVTAMDVVYALK	H4C1	P62805	H4_HUMAN	Oxidation (M);Met	2020800	2080100	1862600	0	0	0	0	0	0
RKTVTAMDVVYALK	H4C1	P62805	H4_HUMAN	Oxidation (M)	0	1458100	1328000	0	0	62358	0	0	0
RKVMEAFEQAER	BCKDHA; N/A	P12694; F5H5P2	ODBA_HUM/	Oxidation (M)	761550	531720	523440	54679	38054	71335	0	0	0
RKVTAEADSSSPTGILATSESK	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	694640	695060	725960	0	0	0	0	0	0
RLALTMDLAPLLLAAR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082_HUM	Oxidation (M)	2376700	1643000	2674300	0	0	0	0	0	0
RLAPEYEAAATR	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Unmodified	13813000	17888000	15128000	1031600	284830	1281200	9874.4	0	0
RLASTSDIEEKENRDSSSLR	PPP1R12A; PPP1R12	O14974; F8VZN8;	MYPT1_HUM	Unmodified	806520	557250	579410	0	0	108120	0	39464	38998
RLDDQESPVYAAQQR	SIN3A; SIN3A; SIN3	Q96ST3; H3BNA(	SIN3A_HUM	Unmodified	4154400	5209700	3757800	230020	365970	387980	39113	0	42556
RLDECEEAFQGTK	PSME3; PSME3; PSI	P61289; K7EPX6;	PSME3_HUM	Unmodified	1154200	0	1225400	67128	0	0	0	0	0
RLDEEEEDNEGGEWER	EIF3C	Q99613	EIF3C_HUM	Unmodified	428700	243890	333320	0	0	0	0	0	0
RLDEWVDKNR	KAT8	Q9H7Z6	KAT8_HUMA	Unmodified	554990	453200	706620	0	0	0	0	0	0
RLDEYTQEEIDAFPR	MRPL13; MRPL13; I	Q9BYD1; H0YAX	RM13_HUMA	Unmodified	4048300	1766400	2845900	36646	31689	0	0	0	0
RLDLFQEHMFEVLER	PBRM1; PBRM1; PB	Q86U86; H0Y5B5	PBI_HUMAN	Oxidation (M)	694420	509720	547340	0	0	0	0	0	0
RLDLMMNVNTR	HSDL2	Q6YN16	HSDL2_HUM	2 Oxidation (M)	1510200	0	0	0	0	0	0	0	0
RLDLMMNVNTR	HSDL2	Q6YN16	HSDL2_HUM	2 Oxidation (M);De	0	611700	0	0	0	0	0	0	0
RLDPNKYPVPENWLHK	FEN1; FEN1	P39748; I3L3E9	FEN1_HUMA	Unmodified	1133500	0	0	0	0	0	0	0	0
RLDQCPESPLQR	KPRP	Q5T749	KPRP_HUMA	Unmodified	2268900	1786300	1569600	2502400	2296000	2363200	0	0	54546
RLDRLEETVQAK	CORO1A; CORO1A	P31146; H3BRV3	COR1A_HUM	Unmodified	10118000	11796000	0	0	0	92924	0	0	0
RLEAAYLDLQR	TBCA; TBCA; TBCA	O75347; E5RIW3;	TBCA_HUM/	Unmodified	26528000	21919000	26735000	425770	344820	370860	0	0	0
RLEAELAAHEPAIQGVLDTGKK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	4026500	1523600	1405700	0	0	0	0	0	0
RLEAGAMVLADR	MCM3; MCM3; MCI	P25205; A0A499F	MCM3_HUM	Oxidation (M)	2307500	3024400	3619100	0	0	0	0	0	0
RLEALAAEFSSNWQK	SUN2	Q9UH99	SUN2_HUMA	Unmodified	1356800	1349400	1413000	0	0	0	0	0	0
RLEASDGGLDSAELAAELGMEHQAVVGAVK	FARSA; FARSA; FAI	Q9Y285; K7ER16	SYFA_HUMA	Oxidation (M)	6993900	7026500	5799700	0	0	0	0	0	0
RLEDLSESIVNDFAYMK	TMED10	P49755	TMEDA_HUM	Oxidation (M);Deai	3275000	4530100	4248300	0	0	0	0	0	0
RLEDLSESIVNDFAYMK	TMED10	P49755	TMEDA_HUM	Oxidation (M)	10051000	9848700	6740900	0	0	0	0	0	0
RLEDLSESIVNDFAYMKK	TMED10	P49755	TMEDA_HUM	Oxidation (M)	1765400	1608300	1858100	0	0	0	0	0	0
RLEEDAFAREQR	SPEF2; SPEF2; SPEF	Q9C093; A0A1B0	SPEF2_HUM	Unmodified	1038900	1122600	0	0	0	0	0	0	0
RLEEEADRLITYLDQTTQK	CUL4B; CUL4B; CU	Q13620; A0A669	CUL4B_HUM	Unmodified	383570	206690	317410	0	0	0	0	0	0
RLEEMNINIRK	PCNT	O95613	PCNT_HUMA	Oxidation (M);2 De	0	0	0	0	0	0	0	0	0

RLEEPEEPKVLTPEEQLADKLR	EIF3J	O75822	EIF3J_HUMA	Unmodified	2224500	1904600	2579600	0	0	0	0	0	0
RLEEQAAQHKADIEER	PLEC	Q15149	PLEC_HUMA	Unmodified	2133500	0	2991300	0	0	0	0	0	0
RLEESDVLQEAR	TIMM44; TIMM44; T	O43615; M0QXU	TIM44_HUM	Unmodified	6634600	6869500	6174500	100220	161280	200930	0	0	0
RLEGTNVTVNVLHPGIVR	RDH14	Q9HBH5	RDH14_HUM	Unmodified	0	1083900	0	0	0	0	0	0	0
RLELQLQEVQGR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	3130800	2879300	2770000	0	0	0	0	0	0
RLETPEPGQQGLQAAAR	PIMREG; PIMREG; I	Q9BSJ6; I3L419; I	PIMRE_HUM	Unmodified	0	606530	686450	0	0	0	0	0	0
RLEVLDSTK	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL_HUM	Unmodified	5575700	5470700	4448400	0	0	0	0	0	0
RLFDVLHEPFLKVP	ERCC1	P07992	ERCC1_HUM	Unmodified	621030	410260	677470	0	0	0	0	0	0
RLFTFQFNNLGNTDINYIK	USP15	Q9Y4E8	UBP15_HUM	Methyl (KR);2 Dea	0	0	365570	0	0	0	0	0	0
RLGLPGDEVDNKVK	PRKDC	P78527	PRKDC_HUM	Unmodified	1146100	762810	1153200	0	0	0	0	0	0
RLGQHVVGMAPLSVGSLDDEPGGEAETK	TSFM	P43897	EFTS_HUMA	Oxidation (M)	691150	617600	493380	0	0	0	0	0	0
RLHGLDEEAEQK	MCM4; MCM4; MC	P33991; A0A3B3I	MCM4_HUM	Unmodified	0	0	1168800	0	0	24942	0	0	0
RLHGLPEQFLYGTATK	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B_HUM	Unmodified	3886700	3561400	3699500	0	0	0	0	0	0
RLLDQIVEK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1_HUM	Unmodified	3301300	3298700	3871000	35089	11007	78759	0	0	0
RLLEDGEDFNLGDALDSSNSMQTIQK	KRT18	P05783	K1C18_HUM	Oxidation (M);2 Dea	1099400	1191000	0	0	0	0	0	0	0
RLLELGPKPEVAQQTR	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUM	Unmodified	874570	700720	575300	0	0	0	0	0	0
RLLGSVQQDLER	PBXIP1	Q96AQ6	PBIP1_HUM	Unmodified	1238800	641240	655450	74062	70218	0	0	0	0
RLLSRPQDALEGVVLSPSLEAR	ATAD3A	Q9NVI7	ATD3A_HUM	Unmodified	1822200	1296600	1904500	0	0	0	0	0	0
RLNDFASTVR	COX5A; COX5A; CO	P20674; H3BRM5	COX5A_HUM	Deamidation (N)	1535000	1276900	1604900	0	48658	77259	0	0	0
RLNFSGFGYSLPQQQPAAVAR	ASCL1	P50553	ASCL1_HUM	Deamidation (N)	929660	537510	266180	0	0	0	0	0	0
RLNQQPSQGLGPR	GNL1; GNL1	P36915; A2AB27	GNL1_HUMA	Deamidation (N)	508130	712560	758540	76980	49146	105440	0	15846	0
RLNVWDLSK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7_HUM	Deamidation (N)	218810	0	342860	0	0	0	0	0	0
RLPDAHSDYAR	RBM14	Q96PK6	RBM14_HUM	Unmodified	3118200	2662200	2986700	340310	470310	400200	0	0	23930
RLPENLYNDRMFR	UQCRB; UQCRB; UC	P14927; B7Z2R2;	QCR7_HUMA	Oxidation (M);Dea	1735000	1654200	1769400	0	0	0	0	0	0
RLPEYPQVDDLLLR	EIF2B4; EIF2B4; EIF	Q9UII0; A0A087I	EI2BD_HUM	Unmodified	0	0	0	0	0	0	0	0	0
RLPIGSYF	OGN	P20774	MIME_HUM	Unmodified	0	0	0	2751000	2329700	2679500	626320	601260	0
RLPPQQIEK	CAPZB; CAPZB; CA	P47756; A0A6I8P	CAPZB_HUM	Unmodified	0	938970	984830	0	0	0	0	0	0
RLPTEEEWEFAAR	SUMF2; SUMF2; SU	Q8NBJ7; C9J660;	SUMF2_HUM	Unmodified	690980	562040	0	0	0	0	19220	0	0
RLQEDKEQMAQQLAEETQGFQR	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	6985300	8823000	7750100	1731500	1667100	494410	57783	33062	58941
RLQEETGAK	KHDRBS2; KHDRBS	Q5VWX1; Q0766	KHDR2_HUM	Unmodified	4444500	4182300	3803900	43261	278170	32043	0	0	0
RLQGQLEQGDDTAAER	ABCF1; ABCF1; ABC	Q8NE71; H0YGW	ABCF1_HUM	Unmodified	1054900	720170	852420	0	0	0	0	0	0
RLQIEESSKPVR	GTF2F2	P13984	T2FB_HUMA	Unmodified	396530	449200	354470	0	0	0	0	0	0
RLQLLEEENKER	MFF; MFF; MFF; MF	Q9GZY8; H7C433	MFF_HUMA	Unmodified	639700	0	1185800	0	0	0	0	0	0
RLQLSPWESSVVNR	MAP7; MAP7	Q14244; A0A087I	MAP7_HUM	Unmodified	446550	412390	422680	0	0	0	0	0	0
RLQQTQAQVDEVVDIMR	VAMP2; N/A; VAMP	P63027; L7N2F9;	VAMP2_HUM	Oxidation (M)	2637900	1948300	1930000	0	0	0	0	0	0
RLQQTQNQVDEVVDIMR	VAMP3	Q15836	VAMP3_HUM	Oxidation (M)	1910700	2125100	0	0	0	0	0	0	0
RLQQTQNQVDEVVDIMR	VAMP3	Q15836	VAMP3_HUM	Oxidation (M);Dea	1596000	1824700	2997900	282930	240320	151550	46701	29938	25011
RLQVKEHQHEEIQNVR	ATL3; ATL3	Q6DD88; F5H6I7	ATLA3_HUM	Methyl (KR)	0	0	1988400	0	0	0	0	0	0
RLSEDYGVLK	PRDX2; PRDX2	P32119; A6NIW5	PRDX2_HUM	Unmodified	3775900	4385500	4390200	72997	100120	85091	0	0	0
RLSEDYGVLKTDEGIAYR	PRDX2	P32119	PRDX2_HUM	Unmodified	47909000	49334000	53630000	198790	220910	81332	34277	0	0
RLSEDYGVLKTDEGIAYR	PRDX2	P32119	PRDX2_HUM	Methyl (KR)	3767900	3951800	2489600	0	0	0	0	0	0
RLSELLR	HSP90AB1; GBF1; G	P08238; Q92538;	HS90B_HUM	Unmodified	1603200	929980	1194500	0	0	0	0	0	0
RLTEQKGEQQIQK	SUPT16H	Q9Y5B9	SP16H_HUM	Unmodified	11363000	5140700	4900000	0	0	0	0	0	0
RLTGFHETSNINDFSAGVANR	GLUL; GLUL	P15104; A0A2R8	GLNA_HUM	Deamidation (N)	0	778680	0	0	0	0	0	0	0
RLTGFHETSNINDFSAGVANR	GLUL; GLUL	P15104; A0A2R8	GLNA_HUM	Unmodified	588070	530350	0	62841	35128	0	0	0	0
RLTVSSLQESGLK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	3367400	3237900	1929300	66498	92436	86307	213120	195610	211920
RLVETMRFTSTKLAQMER	CCDC88C	Q9P219	DAPLE_HUM	Oxidation (M);4 M	0	255550	0	0	0	0	0	0	0
RLVEVDSSR	LMNB2	Q03252	LMNB2_HUM	Unmodified	1737200	1518500	1624400	775310	0	742310	0	0	0
RLVIELEELNLPDSCFLK	CMSS1; CMSS1; CM	Q9BQ75; H7C515	CMS1_HUMA	Unmodified	781330	0	2073100	0	0	0	0	0	0
RLVPDSDVR	HK1	P19367	HXK1_HUM	Unmodified	0	628470	0	0	0	0	0	0	0
RLVPGGGATEIELAK	CCT8	P50990	TCPQ_HUMA	Unmodified	716750	956950	956160	26991	33236	28053	0	0	0
RLYPAVDEQETPLPR	RANBP9	Q96S59	RANB9_HUM	Unmodified	0	0	0	0	0	0	0	0	0
RLYQGHLQEESGPPPESMPK	MRPS18B; MRPS18	Q9Y676; A0A0G2	RT18B_HUM	Oxidation (M)	996390	970140	1392300	0	0	0	0	0	0
RMAANVRER	BHLHA9	Q7RTU4	BHA09_HUM	Oxidation (M);2 M	2118000	1466500	2058800	116420	132480	100380	26459	0	30976
RMDAPASAAAVR	AKR7A2; AKR7A2	O43488; H3BLU7	ARK72_HUM	Oxidation (M)	0	3241200	1246300	73956	52678	0	0	0	0
RMDERPIHAEPQVPVR	CDH2; CDH2; CDH2	P19022; C9J126;	CADH2_HUM	Oxidation (M)	0	1386300	1335400	0	0	0	0	0	0
RMEELHNQEMQK	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ_HUMA	2 Oxidation (M);De	341640	485140	1068400	0	0	16294	0	0	0
RMEELHNQEVQK	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Oxidation (M)	8630700	7316400	9430100	302310	0	231180	0	0	0
RMEELHNQEVQKR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Oxidation (M)	4753800	3889900	4100700	0	0	156320	0	0	0
RMEELHNQEVQKR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM	Oxidation (M);Dea	325640	242830	356930	0	0	0	0	0	0
RMEPPASKVPEVPTAPATDAAPK	SEPTIN9; SEPTIN9	Q9UHD8; K7EJ51	SEPT9_HUM	Oxidation (M)	14606000	3488800	12864000	97157	88301	66242	56788	0	33161
RMFEGEMASLTAILK	FN3KRP; FN3KRP;	E9PAA64; I3L139;	KT3K_HUMA	2 Oxidation (M)	0	771750	1199300	0	0	0	0	0	0
RMGESDDSILR	RPS21; RPS21	P63220; Q8WVC7	RS21_HUMA	Oxidation (M)	14710000	17239000	14669000	1333900	1263200	1384700	0	0	0
RMGESDDSILRLAK	RPS21; RPS21	P63220; Q8WVC7	RS21_HUMA	Oxidation (M)	0	0	0	223950	191170	742490	0	15482	12612
RMIREVRGK	STMN4; STMN4	E7EVN3; E5RIR6	E7EVN3_HUM	Oxidation (M);Met	392500	440300	388520	26727	0	29186	0	0	0
RMMEVAAADVK	CNDP2; CNDP2; CN	Q96KP4; J3QQN6	CNDP2_HUM	2 Oxidation (M)	1179600	1178000	1083700	211840	0	192420	0	0	0
RMQAQRSTDKEAQDK	FAM83G	K7EKG0	K7EKG0_HUM	Oxidation (M)	0	0	63204	0	0	0	0	0	0
RNEDEDSPNKLYTLVTYVPVTTFK	RPL31; RPL31; RPL	P62899; H7C2W9	RL31_HUMA	Unmodified	0	743950	0	0	0	0	0	0	0
RNEKIAVHCTVRGAK	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	2 Methyl (KR);Dea	584780	483040	649630	0	0	0	0	0	0
RNFILDQTNVSAAAQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	5028600	5281900	4081200	194060	181860	141930	0	0	0
RNFILDQTNVSAAAQR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Deamidation (N)	2313700	2856300	2095000	0	0	0	0	0	0
RNGTLPWLR	MAT2A	P31153	METK2_HUM	2 Methyl (KR);Dea	295630	333410	383360	0	0	0	0	0	0
RNIPPYFVALVPQEEELDDQK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	3148800	2937800	2588900	0	0	0	0	0	0
RNLASITR	SCIN	Q9Y6U3	ADSV_HUMA	Deamidation (N)	494590	573630	0	0	0	0	0	0	0
RNLDFQDVLDKLADMGIAIR	RTCB	Q9Y3I0	RTCB_HUMA	Oxidation (M)	882000	0	530350	0	0	0	0	0	0
RNLGSINTELQDVQR	SEC22B; SEC22B	O75396; A0A087	SC22B_HUM	Unmodified	2027200	1370900	1871400	91786	57653	55567	17014	18465	0
RNLGSINTELQDVQR	SEC22B; SEC22B	O75396; A0A087	SC22B_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
RNLGSINTELQDVQR	SEC22B; SEC22B	O75396; A0A087	SC22B_HUM	2 Deamidation (N)	587340	387810	446680	0	0	36244	22642	0	0
RNPEPLRFLPDEAR	NDUFC2-KCTD14; N	E9PQ53; O95298;	NDUCR_HUM	Unmodified	290200	294810	0	548520	393670	460030	81633	68863	0
RNPQQDYELVQR	MAP4K5; MAP4K5;	Q9Y4K4; G3V3V7	M4K5_HUMA	Unmodified	910090	1047200	724010	38202	54504	42528	0	0	0
RNQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2_HUMA	Deamidation (N)	3668800	1184800	2826200	0	0	0	0	0	0
RNQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2_HUMA	2 Deamidation (N)	6905600	5048000	5226400	0	0	0	0	0	0
RNQDLAPNSAEQASILSLVTK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2_HUMA	Unmodified	243020	1441800	0	0	0	0	0	0	0
RNRDPQLNERVHR	CNKSR1; CNKSR1	Q969H4; G3V160	CNKR1_HUM	2 Deamidation (N)	0	0	389790	0	0	0	0	0	0
RNSEVAVMDKR	TP53BP2	Q13625	ASPP2_HUM	Oxidation (M);2 M	0	0	0	0	0	323420	0	0	0
RNYILDQTNVYGSAQR	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Deamidation (N)	512940	357430	694280	0	0	0	0	0	0
RPAEDMEEEQAFK	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK_HUM	Oxidation (M)	9306400	7210300	8522600	293680	358220	401510	0	0	0
RPAEDMEEEQAFKR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK_HUM	Oxidation (M)	10504000	9113400	10338000	726010	588600	698780	49029	0	0
RPAEDYVPR	TCEAL3; TCEAL5	Q969E4; Q5H9L2	TCAL3_HUM	Unmodified	378340	960880	354960	114030	225090	226670	0	0	0
RPAGGPQNQFPFQFGR	ARID1A; ARID1A; A	O14497; A0A087	ARI1A_HUM	Deamidation (N)	755570	0	860000	0	0	0	0	0	0
RPDADLKTYFTDKK	CANX; CANX; CAN	P27824; A0A7P01	CALX_HUMA	Unmodified	1792300	1754500	1375500	0	21240	0	0	0	0
RPDDTAFQIVELR	SUN1; SUN1; SUN1;	O94901; H0Y742;	SUN1_HUMA	Unmodified	587830	482440	427830	0	0	0	0	0	0
RPDLLTMVVDYR	PEA15; PEA15	Q15121; B1AKZ5	PEA15_HUM	Oxidation (M)	3045600	6212500	3344300	0	10250	0	0	0	0
RPDLYGNLGHPLS	NIT1	Q86X76	NIT1_HUMA	Unmodified	0	1113900	857420	78968	52988	54119	0	0	0
RPDQQLQGEGK	SERBP1	Q8NC51	PAIRB_HUM	Unmodified	16334000	983960	20003000	0	0	877730	0	0	0
RPEVDPLPFPGPFPAGPLAVAGGPR	ESRRA; ESRRA; ESI	P11474; H0YGT3	ERR1_HUMA	Unmodified	473610	343600	399970	0	0	0	0	0	0
RPEVPFPEITR	HMG20A; HMG20A;	Q9NP66; H0YMS9	HM20A_HUM	Unmodified	520970	0	792110	23110	0	39922	0	0	0
RPGEEGTVMSLAGK	TOMM40; TOMM40	O96008; K7EKG4	TOM40_HUM	Oxidation (M)	0	760670	729770	0	0	0	0	0	0
RPGGEPSPEGTTGQSYNQYSQR	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Unmodified	2160500	2537800	2190400	0	58979	0	0	0	0
RPGGEPSPEGTTGQSYNQYSQR	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Deamidation (N)	760760	524080	600910	0	0	0	41598	0	0
RPGQAPPDQEALQVVYER	GGA2	Q9UJY4	GGA2_HUMA	Unmodified	398130	465380	532750	0	0	0	0	0	0
RPGQSFHVNSEVNSVLSPR	PUM1; PUM1; PUM	Q14671; Q5T1Z4;	PUM1_HUM	2 Deamidation (N)	439690	0	236750	0	0	0	0	0	0
RPGYGAYDAFK	EIF2S1; EIF2S1; EIF	P05198; H0YJS4;	IF2A_HUMA	Unmodified	482520	611790	1025000	0	0	0	0	0	0
RPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2_HUM	Oxidation (M)	18816000	18180000	5885400	0	0	0	0	0	0
RPISADSAIMNPASK	CLTC; CLTC; CLTC;	Q00610; J3KSQ2;	CLH1_HUMA	Oxidation (M)	1516800	2820700	3647200	24125	36170	31424	0	0	0
RPKEEEWDPEYTPK	BCLAF1; BCLAF1	Q9NYF8; H0YF14	BCLF1_HUM	Unmodified	506600	654370	1145300	0	0	0	0	0	0
RPLEDGDQPDAKK	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	1237500	0	1385700	0	0	150170	0	0	0
RPLEMEQQQAYRPEMK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	2 Oxidation (M)	12700000	10964000	12432000	704970	680450	1260400	26016	34487	33929
RPLHSAQAVDVASASNFR	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB_HUM	Unmodified	0	2003100	1019300	0	0	0	0	0	0
RPLRPQVVTDDDGQAPEAK	APMAP	Q9HDC9	APMAP_HUM	Unmodified	6639100	5789500	6408500	209640	208480	196750	0	0	0
RPMSAYMLWLNASR	SSRP1; SSRP1	Q08945; A0A0U1	SSRP1_HUM	2 Oxidation (M);De	388400	1009400	1340200	0	0	0	0	0	0
RPNPDILDHER	SRRM2; SRRM2; SR	Q9UQ35; I3L4D8;	SRRM2_HUM	Unmodified	1040300	1182300	370440	95487	0	46347	0	0	0
RPPAAPENTPLVPSGVK	PRRC2A	P48634	PRC2A_HUM	Unmodified	3123400	2106400	2931800	0	0	0	0	0	0
RPPGREAYPGDVFYLHSR	ATP5F1A	P25705	ATPA_HUMA	Unmodified	3222900	2722000	2043400	0	0	0	0	0	0
RPPTPGPDTSVSGPR	PRR36	Q9H6K5	PRR36_HUM	Unmodified	993220	943350	991850	0	43668	70128	0	0	0
RPPWSYEMSKEQLMSQEER	GNL1; GNL1	P36915; A2AB27	GNL1_HUMA	2 Oxidation (M)	752420	707480	1004300	0	0	0	0	0	0
RPQYSNPPVQGEVMEGADNQGAGEQGR	YBX1; YBX1; YBX1	P67809; C9J5V9;	YBOX1_HUM	Oxidation (M)	0	680770	586310	0	0	0	0	0	0
RPQYSNPPVQGEVMEGADNQGAGEQGRPVR	YBX1; YBX1; YBX1	P67809; C9J5V9;	YBOX1_HUM	Oxidation (M)	3875200	5880700	4865400	0	0	0	84759	0	161180
RPQYSNPPVQGEVMEGADNQGAGEQGRPVR	YBX1; YBX1; YBX1	P67809; C9J5V9;	YBOX1_HUM	Oxidation (M);Dea	4510200	3532100	4718300	399330	532510	563840	0	0	0
RPSEGPQPLVR	CAMSAP1	Q5T5Y3	CAMP1_HUM	Unmodified	582500	604150	413700	0	52077	0	0	10975	0
RPSENLGQVLFGER	TM9SF2	Q99805	TM9S2_HUM	Unmodified	2941100	2481200	1797000	0	13389	0	0	0	0
RPSENLGQVLFGER	TM9SF2	Q99805	TM9S2_HUM	Deamidation (N)	215340	287010	261720	0	0	0	0	0	0
RPSPDEPMTNLELK	CHORDC1; CHORDC	Q9UHD1; E9PPQ	CHRD1_HUM	Oxidation (M)	2987900	3169600	2796900	0	0	0	0	0	0
RPSTSQTVSTPAPVPVIESTEAIEAK	TPR	P12270	TPR_HUMAN	Unmodified	2580400	2564500	2469900	0	0	0	0	0	0
RPTEICADPQFIGGATR	CAPN2	P17655	CAN2_HUMA	Unmodified	0	0	617810	0	0	0	0	0	0
RPTELLSNPQFIVDGATR	CAPN1; CAPN1; CA	P07384; E9PLX0;	CAN1_HUMA	Unmodified	2889900	1930700	2268800	12570	0	0	0	0	0
RPTPQDSPIFLPVDDTSFR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	2946900	2699500	2764300	17776	0	0	0	0	0
RPVGGFLLDGFQGNPTTLEAR	QTRT2	Q9H974	QTRT2_HUM	Unmodified	796840	774510	748860	0	0	0	0	0	0
RPVHLDQAAFR	XRN2	Q9H0D6	XRN2_HUMA	Unmodified	4098100	2132400	0	0	83057	270590	0	0	0
RPVPPEVAQQYQDIMQR	CC2D1A; CC2D1A;	Q6P1N0; A0A7P0	C2D1A_HUM	Oxidation (M)	2858000	4140100	3730300	51351	24024	31343	0	0	0
RPVSAMFIFSEEK	UBTF; UBTF	P17480; E9PKP7	UBF1_HUMA	Oxidation (M)	0	0	1671100	31603	27964	28656	0	0	0
RPYDLDR	SAFB2; SAFB; SAFB	Q14151; Q15424;	SAFB2_HUM	Unmodified	1208200	1638200	1559600	115760	0	196660	9693.8	0	0

RQAVDVSPLR	RPS5; RPS5; RPS5; F	P46782; M0R0R2	RS5_HUMAN	Unmodified	2617900	3930300	11330000	283110	137990	204300	10828	20621	12805
RQDLPSSLPEPETQAPPRS	PPM1F; PPM1F	P49593; B5MCT7	PPM1F_HUM	Unmodified	0	514110	0	167900	188160	113360	98607	0	50364
RQDSLESMK	DSP	P15924	DESP_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
RQDSLESMKFGDSNTVMR	DSP	P15924	DESP_HUMA	2 Oxidation (M)	414500	275100	304810	0	0	18898	0	0	0
RQDWDGELYENGSFYFAK	CMAS; CMAS	Q8NFW8; F5GYN	NEUA_HUM/	Deamidation (N)	312460	264640	191870	0	0	0	0	0	0
RQDYEMALK	HELZ; HELZ; HELZ;	P42694; J3KS59;	HELZ_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
RQECSIPVCGQDQVTVAMTPR	F2; F2; F2	P00734; E9PIT3;	THRB_HUM/	Oxidation (M)	587800	503400	510990	0	247430	51984	0	0	0
RQEEEAGALEAGEEAR	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14_HUM	Unmodified	3102400	2969400	1288100	57531	0	36339	0	0	0
RQEELQR	COA4; HOOK2	Q9NYJ1; Q96ED9	COA4_HUMA	Unmodified	1015800	827810	0	0	0	0	0	0	0
RQEELR	RIC1; SFPQ; PSPC1;	Q4ADV7; P23246	RIC1_HUMA	Unmodified	16570000	18606000	18884000	1546600	1125800	1241600	51372	0	67753
RQELDAFLAQALSPK	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A_HUM	Unmodified	3026400	2977200	3375800	0	0	0	7733.2	0	0
RQELEQVLGIR	SMARCD2; SMARCI	Q92925; J3KMX2	SMRD2_HUM	Unmodified	1321700	1509400	719310	0	0	0	0	0	0
RQELLEAR	TLK1; TLK2; TLK2;	Q9UKI8; Q86UE8	TLK1_HUMA	Unmodified	1065900	1022200	905900	0	0	0	0	0	0
RQEQIQAMPLADSQAVR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Oxidation (M)	1073700	0	436830	45323	0	0	0	0	0
RQEQTLRDATMEVQR	EPPK1; EPPK1	P58107; A0A075F	EPIPL_HUM/	Oxidation (M)	1891100	0	0	0	0	0	0	0	0
RQFHLTDDDLLR	GBE1; GBE1	Q04446; E9PGM4	GLGB_HUM/	Unmodified	1372600	1361500	1618700	0	26516	0	0	0	0
RQGHAEPQP	ACOT7	O00154	BACH_HUM/	Unmodified	1304000	1651100	1351300	0	0	0	0	0	0
RQGLEQFINK	SNX12; SNX12	Q9UMY4; A0A08	SNX12_HUM	Unmodified	805980	666260	731250	0	0	0	0	0	0
RQLAALGQTEPLPAEAPWAR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2_HUM	Unmodified	387100	302630	256200	0	0	0	0	0	0
RQLEEAEEEAQR	MYH9	P35579	MYH9_HUM/	Unmodified	3192600	4488200	4009100	175480	229360	246770	0	0	0
RQLEEAEEEAQRANASR	MYH9	P35579	MYH9_HUM/	Unmodified	936830	5028300	3893800	0	0	65912	0	0	0
RQNGDDPLLTYR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM/	Deamidation (N)	2006700	3869500	2256900	52346	92876	106580	30422	0	0
RQQDPSPGSNLGGGDDLKLR	CBFB	J3KTD8	J3KTD8_HUI	Unmodified	1409300	0	1425400	0	0	0	38501	56198	31492
RQQEELLAEENQR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1551400	1340200	1417800	188980	96335	152900	0	0	0
RQQEGFKGTFPDAR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM/	Unmodified	8829500	8196500	7456000	141450	104380	112310	27789	0	0
RQQEGFKGTFPDAREQEIR	NONO; NONO; NON	Q15233; A0A7I2V	NONO_HUM/	Unmodified	5609900	8763600	11256000	327640	152680	252870	0	0	0
RQQEQQVPILEK	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	3284600	3075500	3661500	229600	309740	180890	93101	0	53702
RQQEVETELK	SNRNP70; SNRNP70	P08621; M0QX04	RU17_HUMA	Unmodified	2720100	3004300	2789800	132000	126460	186290	0	0	0
RQQEVETELKMWDPHNDPNAQGDAFK	SNRNP70; SNRNP70	P08621; M0QYR1	RU17_HUMA	Oxidation (M)	568150	632950	705850	0	0	0	0	0	0
RQQLEEQTVELSTEVQSLYR	RAD50; N/A	Q92878; A0A1W2	RAD50_HUM	Unmodified	0	0	0	0	0	0	0	0	0
RQQMQDFFLAHK	SRRT; SRRT; SRRT	Q9BXP5; A0A286	SRRT_HUMA	Oxidation (M);Metl	6013400	0	3266200	14092	0	0	0	0	0
RQQPGIELPETELSLR	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	0	1426000	1648300	0	0	0	0	0	20870
RQSTDLPTGWEEAYTFEGAR	PLEKHA5	Q9HAU0	PKHA5_HUM	Unmodified	861070	542720	398210	0	0	0	0	0	0
RQVDQLTNDKAR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Deamidation (N)	0	2018800	2637900	4690900	4761900	5840500	0	0	144430
RQVLEGEEIAYKFTPK	LMNB2	Q03252	LMNB2_HUM	Unmodified	586590	913400	579950	0	40841	45084	0	0	0
RRAPGWTTMMA	ZNF667	K7EQ15	K7EQ15_HUI	2 Oxidation (M);2 I	0	0	0	446020	439720	351240	335890	376780	466500
RRDEDMLYSPELAQR	WBP11	Q9Y2W2	WBP11_HUM	Oxidation (M)	1392500	2522900	1553300	0	0	0	0	0	0
RREEEGLQLR	KPNA1; KPNA1; KPI	P52294; C9J4U1;	IMA5_HUMA	Unmodified	1837400	2085800	2196400	83050	44471	0	0	0	0
RRELLLTGPGLEER	LRRC47	Q8N1G4	LRC47_HUM	Unmodified	984750	4888500	811950	76708	0	51635	0	0	0
RRGEEGHDPKEPEQLR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3_HUMA	Unmodified	17276000	6728000	17788000	0	0	0	0	0	0
RRQEEEAGALEAGEEAR	MYH14; MYH14; M	Q7Z406; A1L2Z2;	MYH14_HUM	Unmodified	1306500	1272100	1140400	0	0	0	0	0	0
RRTYDALNVLMAMNIISR	TFDP3	Q5H9I0	TFDP3_HUM	2 Oxidation (M)	0	0	5486700	0	0	0	0	0	0
RRVENSIPAAGETQNVEVAAGPAGK	SART3; SART3	Q15020; A0A499	SART3_HUM	Deamidation (N)	830390	778650	805030	136360	167860	0	0	0	0
RSELEEQQMHLNVGLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	2259100	1900700	1708300	0	0	0	0	0	0
RSENEEFVEVGR	PRKAR1A; PRKAR1	P10644; K7EM13	KAP0_HUMA	Unmodified	3303100	2824800	3643400	0	0	140460	0	0	0
RSENEEFVEVGR	PRKAR1A; PRKAR1	P10644; K7EM13	KAP0_HUMA	Deamidation (N)	1289300	2861800	3753000	136910	66314	29533	0	0	0
RSGPTDDGEEEMEEDTVTNGS	SNRPA1	P09661	RU2A_HUMA	Oxidation (M);Deai	628230	811640	435970	0	140650	0	0	0	0
RSIQFVDWCPTGFK	TUBA4A; TUBA1B	P68366; P68363	TBA4A_HUM	Unmodified	2669200	2600600	1776000	10422	0	0	0	0	0
RSKLQRNENR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1_HUM/	Methyl (KR);2 Dea	3670400	1918100	2064500	0	0	0	0	0	0
RSLEQNIQLPAALLSR	MCM7	P33993	MCM7_HUM	Unmodified	646070	534650	713430	0	0	0	0	0	0
RSLGDSDEELLLPIDDYLAMKR	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN_HUMA	Unmodified	1500000	0	0	0	0	0	0	0	0
RSLGYAYVNFQQPADAER	PABPC4; PABPC1; F	Q13310; P11940;	PABP4_HUM	Unmodified	815870	0	534510	0	0	0	0	0	0
RSLGYAYVNFQQPADAER	PABPC4; PABPC1; F	Q13310; P11940;	PABP4_HUM	Deamidation (N)	863990	0	1251800	44646	49424	43950	0	0	0
RSLPFPLNCQLAR	CAPZB	B1AK88	B1AK88_HUI	Unmodified	0	0	0	0	0	158460	0	0	0
RSPEAPQPVIAMEEPAVPAPLPK	HCLS1; HCLS1	P14317; E7EVW7	HCLS1_HUM	Oxidation (M)	669180	0	0	299530	133100	261100	0	82436	33238
RSPFLQVFNNSPDESSVYR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B_HUM	Deamidation (N)	860600	1131600	753770	0	0	0	0	0	0
RSPSKPLPEVTDEYKNDVK	SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Deamidation (N)	1631100	0	0	0	0	0	0	0	0
RSQNIKMVQIPFSMKNLK	PMS1; PMS1; PMS1;	P54277; E9PC65;	PMS1_HUMA	2 Oxidation (M);M	0	0	0	0	0	0	0	0	0
RSTQGVTLTDLQEAEK	PPP1R12A; PPP1R12	O14974; F8VZN8;	MYPT1_HUM	Unmodified	917800	1426500	1545900	0	0	0	0	0	0
RSTQGVTLTDLQEAEKTIGR	PPP1R12A; PPP1R12	O14974; F8VZN8;	MYPT1_HUM	Unmodified	661960	686260	683340	0	0	0	37438	0	23757
RSVDGR	RBP5; CROCC; ITGA	P82980; Q5TZA2;	RET5_HUMA	Unmodified	0	462680	0	0	0	0	0	0	0
RSVSDNDIRKYEMFAQTLQQSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);Deai	17942000	17570000	18293000	0	0	0	28153	0	0
RSYDVPPPPMEPDHPFYSNISK	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M)	2140400	8044500	9008300	81341	0	51100	0	0	0
RSYWEMRGNALEKK	PTK2; PTK2; PTK2	Q05397; H0YBP1	FAK1_HUMA	Oxidation (M);Metl	315660	0	0	0	0	0	0	0	0
RTDEEGKDVPDHAVLEMK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Oxidation (M)	5556000	6561000	6272400	274070	874500	308510	0	0	0
RTDIFGVEETAIGK	SF3A1	Q15459	SF3A1_HUM	Unmodified	2643700	5766200	4377000	119750	85391	120620	23060	20223	19291
RTDIFGVEETAIGKK	SF3A1	Q15459	SF3A1_HUM	Unmodified	9186800	9065400	8503500	274140	258660	193370	18839	46796	31253
RTDVNPFLAPR	TRIP11; TRIP11	Q15643; H0YJ97	TRIPB_HUM	Unmodified	965140	774810	1362400	42713	59157	63352	24914	21067	0
RTEEGPTLSYGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	1122600	1231900	966330	0	0	0	0	0	0
RTEEGPTLSYGRDGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	3596000	3838000	4176500	103480	0	0	0	0	0
RTEGVGPGVPGEVEMVK	MAPK3; MAPK3; M	P27361; E9PJF0;	MK03_HUMA	Oxidation (M)	2356800	2412900	5320700	276480	206930	242890	0	0	0
RTEGVGPGVPGEVEMVKGQPFDVGPR	MAPK3; MAPK3; M	P27361; E9PJF0;	MK03_HUMA	Oxidation (M)	4538300	3564900	4278200	0	279910	186430	68611	60495	93426
RTEITIVKPQESAHR	SEPTIN9; SEPTIN9;	Q9UHD8; K7EJ51	SEPT9_HUM	Unmodified	12849000	9085000	9616200	301830	290930	260250	54991	62507	56435
RTEQEEDEELLTESSK	SMARCA5	O60264	SMCA5_HUM	Unmodified	2116800	2228200	1956900	101680	75889	107960	0	0	0
RTGAIVDVPVGEELLGR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Unmodified	1099500	669660	721540	0	0	0	0	0	0
RTGLFSATQTQEVENLVR	DDX55; DDX55	Q8NHQ9; F5H5U7	DDX55_HUM	Unmodified	1741600	907700	1299100	0	0	0	0	0	0
RTHNGESVSYLFSHVPL	PRPS2; PRPS1; PRP	P11908; P60891;	PRPS2_HUM	Deamidation (N)	4431000	1789100	4277200	0	0	0	0	0	0
RTIQFVDWCPTGFK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	1994300	1722000	1674800	0	0	0	0	0	0
RTLTGTAALTVQSQEDNLR	LTA4H; LTA4H	P09960; B4DEH5	LKHA4_HUM	Unmodified	1977100	0	758680	0	0	0	0	0	0
RTNPPGGKGSGIFDESTPVQTR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2_HUM	Unmodified	1542500	1532800	1401400	52385	106380	74325	0	0	0
RTPLQHELPAWSERPPTFGTPLLQEAQAK	NT5DC3; NT5DC3	Q86UY8; H7C3S8	NT5D3_HUM	Unmodified	7081100	1332700	2212000	0	0	0	0	0	0
RTTYLVLDEADR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5_HUMA	Unmodified	650390	461780	817350	22690	0	24222	0	0	0
RTYVTPPGTGFLPGDTAR	OSGEP; OSGEP	Q9NPF4; G3V445	OSGEP_HUM	Unmodified	2106700	1895300	2383900	0	97615	0	0	0	0
RVAASLHNTPMGAR	ABT1	Q9ULW3	ABT1_HUMA	Unmodified	519670	607430	871480	9732.4	0	7053.9	0	0	0
RVASGPSPGEGISPQSAQAPQAPGDNHVVPVLR	MVP	Q14764	MVP_HUMA	Deamidation (N)	0	0	840390	255080	165430	228820	0	178820	190700
RVDAENRLQTMKEELDFQK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM/	Oxidation (M)	2374700	1906900	2007300	362960	227390	255590	0	0	0
RVDFETFLPMLQAVAK	MYL6B; MYL6B	P14649; F8W1I5	MYL6B_HUM	Oxidation (M)	0	739190	721310	0	0	0	0	0	0
RVDTVDPPYPR	VTN	P04004	VTNC_HUM/	Unmodified	1444800	1100800	1201500	377770	328540	416790	297900	349100	284980
RVEEDIQQQK	DSP	P15924	DESP_HUMA	Unmodified	0	6331700	3651600	0	0	231660	20990	0	0
RVEEDIQQQKATGSEVSQR	DSP	P15924	DESP_HUMA	Unmodified	0	678530	765950	0	0	0	0	0	0
RVEHNQSYSQAGITETEWTSGSSK	TMPO	P42167	LAP2B_HUM	Unmodified	0	2134600	2703300	0	0	0	0	0	0
RVEHNQSYSQAGITETEWTSGSSK	TMPO	P42167	LAP2B_HUM	Deamidation (N)	0	1888000	0	0	0	0	0	0	0
RVEIMEESEQ	USP14; USP14	P54578; A6NJA2	UBP14_HUM	Oxidation (M)	15314000	13716000	13576000	2124900	2231700	2376000	0	0	0
RVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQLQSR	SEPTIN9; SEPTIN9	Q9UHD8; K7EJ51	SEPT9_HUM	Oxidation (M);Deai	16622000	15490000	41372000	0	0	0	0	0	0
RVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQLQSR	SEPTIN9; SEPTIN9	Q9UHD8; K7EJ51	SEPT9_HUM	Oxidation (M)	5733400	4611300	7371400	0	0	0	0	0	0
RVELLQDELALSEPR	PPP1R21; PPP1R21;	Q6ZMI0; F8W7E1	PPR21_HUM	Unmodified	0	1257600	1689500	0	0	0	0	0	0
RVELSGPK	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_HUM	Unmodified	8053500	7740600	12436000	596330	601190	954100	96187	57477	145560
RVENSIPAAGETQNVEVAAGPAGK	SART3; SART3	Q15020; A0A499	SART3_HUM	Deamidation (N)	5648600	3878800	5425900	940600	823450	787580	76293	28719	36518
RVENSIPAAGETQNVEVAAGPAGK	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	324950	571330	528660	287890	134020	148670	0	0	0
RVEPGSPAEAAALR	SLC9A3R2	Q15599	NHRF2_HUM	Unmodified	1267700	1495000	0	0	54023	0	54573	49827	0
RVESPVLPPVLVPR	SMAD1; SMAD5	Q15797; Q99717	SMAD1_HUM	Unmodified	1527200	1293800	751760	35538	0	0	0	0	0
RVETPVLPPVLVPR	SMAD9; SMAD3; SM	O15198; P84022;	SMAD9_HUM	Unmodified	0	842970	1028300	0	0	0	0	0	0
RVEVNGEHATVR	TBCE; TBCE; TBCE;	O15813; A0A2R8	TBCE_HUMA	Deamidation (N)	2782000	1587200	2110500	56201	72164	125180	0	13859	106930
RVFITDDFHDMMPK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	2 Oxidation (M)	20911000	18330000	18997000	186400	279630	283430	0	0	0
RVFNPYTEFK	EFHD2	Q96C19	EFHD2_HUM	Unmodified	713830	815910	421810	0	0	0	0	0	0
RVGDPPQPLPEEPMEVQGAER	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6_HUMA	Oxidation (M)	1910200	2832900	2867600	63515	167090	0	0	0	0
RVHVTQEDFEMAVAK	PSMC5	P62195	PRS8_HUMA	Oxidation (M)	4020900	3703900	3713100	189960	79740	190140	0	0	0
RVIISAPSADAPMFVMGVNHEK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	9508800	11351000	10770000	69327	86069	68228	0	0	0
RVIISAPSADAPMFVMGVNHEK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);De	16420000	15488000	14629000	57553	135550	76519	0	0	0
RVIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);De	17550000	13866000	15868000	0	0	0	0	0	0
RVIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);2 I	10624000	11214000	11152000	0	0	0	0	0	0
RVIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	4014000	2949900	5907900	0	0	0	0	0	0
RVIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Metl	4031900	2183000	0	0	0	0	0	0	0
RVLEEGSVEAR	CCDC124	Q96CT7	CC124_HUM	Unmodified	0	774950	716010	0	65219	42260	8589.8	0	0
RVLFETDLVNPR	NID1	P14543	NID1_HUMA	Unmodified	1564400	1347000	1151200	244760	288800	239260	219690	149290	131330
RVLQALEGLK	RPS19; RPS19	P39019; A0A075F	RS19_HUMA	Unmodified	2199900	2004000	1984400	0	0	0	0	0	0
RVLQALEGLKMVEKDQDGGR	RPS19; RPS19	P39019; A0A075F	RS19_HUMA	Oxidation (M)	1008700	863850	1098900	0	0	0	0	0	0
RVNSASSSNPPAEVDPDTILK	POLDIP3; POLDIP3	Q9BY77; F6VRR5	PDIP3_HUMA	Deamidation (N)	2927700	2987400	2516900	61181	96592	64364	0	0	0
RVPQAKPVAVEEK	CCDC12; CCDC12; C	Q8WUD4; J3KR3	CCD12_HUM	Unmodified	620530	838900	1018000	0	76914	0	0	0	0
RVPQCCLNLFR	N/A	N/A	N/A	Deamidation (N)	1105300	808440	2408600	0	0	0	0	0	0
RVSHQGVSTEAEFEEPR	LRPAP1	P30533	AMRP_HUM	Unmodified	601620	739750	859670	53613	45300	0	0	0	0
RVSISEGDDKIEYR	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL_HUMA	Unmodified	3364300	4182300	1836300	0	178990	174820	0	0	0
RVSLEPHQGPGTPESK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	825250	561300	0	54742	55990	68976	0	0	0
RVTAYTVDVTGR	AHNAK	Q09666	AHNK_HUM/	Unmodified	0	0	0	181110	0	113960	0	0	0
RVTFEADENENITVVK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Deamidation (N)	1305800	926600	1173100	0	0	0	0	0	0
RVVAEPVELAQEFR	NDUFS3	O75489	NDUS3_HUM	Unmodified	0	0	986090	0	0	0	0	0	0
RVVLGDGVQLPPGDYSTTPGGTR	EIF4EBP1	Q13541	4EBP1_HUM	Unmodified	2449300	2322700	2678500	0	0	0	0	0	0
RVVLLSQEMDAGLQAWQLR	MRPL52; MRPL52	Q86TS9; G3V3U6	RM52_HUMA	Oxidation (M)	731700	944730	607230	0	0	0	0	0	0
RVVSEIPVLK	UFC1	Q9Y3C8	UFC1_HUMA	Unmodified	1726600	1578400	1668800	66070	0	92289	0	0	0
RWDQTADQTPGATPK	SF3B1	O75533	SF3B1_HUM	Unmodified	0	1265900	1356000	0	108340	105270	20294	21860	19563
RWELCDIPR	PLG	P00747	PLMN_HUM	Unmodified	1754400	1952500	1603800	418060	525730	476110	0	0	0
RWEMDRGAK	PPAN-P2RY11	A0A0B4J1V8	A0A0B4J1V8	Oxidation (M);Metl	1453800	1537100	1719700	270020	0	0	0	0	0

RWLHEINQNCDDVCRILVGNK	RAB35; RAB35	Q15286; F5H157	RAB35	HUM	2 Methyl (KR);3 D	0	0	0	0	0	0	0	0	0
RWLPAGDALLQMITBILPSPVTAQK	EEF2	P13639	EF2_HUMAN		Oxidation (M)	399460	82400	198710	0	0	0	0	0	0
RWQLSVATEQPELEGPR	DDX21	Q9NR30	DDX21	HUM	Unmodified	1126300	1751400	669530	0	0	0	0	0	0
RYASGSSASLGGPESAVA	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	A Unmodified	0	0	0	226290	220870	211380	114620	137620	127730
RYDDPEVQKDIK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Unmodified	8975300	12022000	10302000	302000	272620	354180	0	0	11877
RYEEIVKEVSTYIKK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Unmodified	0	2945800	2533500	0	0	0	0	0	0
RYESHPVCADLQAK	CHCHD3; CHCHD3	Q9NX63; C9JRZ6	MIC19	HUM	Unmodified	592900	453490	0	0	0	0	0	0	0
RYGPMEEPLVIEKDLPHYF	GPX4; GPX4; GPX4	P36969; A0A087	GPX4	HUM	A Oxidation (M)	1208300	0	1082200	0	0	0	0	0	0
RYILPDEPAIIVHPNWAAK	CCAR1; CCAR1; CC	Q8IX12; H0YFJ7;	CCAR1	HUM	Unmodified	1367200	1265900	1173100	0	0	0	0	0	0
RYLENGKETLQR	HLA-A; HLA-H; HL	P04439; P01893;	HLAA	HUM	/ Deamidation (N)	795490	0	296980	0	0	0	0	0	0
RYNFPVEVEVPMER	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	1463100	1707000	1365300	0	0	0	0	0	0
RYPSGEER	NDUFS8; NDUFS8; N	O00217; F8W9K7	NDUS8	HUM	Unmodified	705390	0	700140	0	36854	40486	0	0	5346.5
RYSDESGNMDFDNFISCLVR	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1	HUM	Oxidation (M);Deam	320050	210680	213980	0	0	0	0	0	0
RYTIAALLSPYSYSTTAVVTNPKE	TTR; TTR	P02766; A0A087	TTHY	HUM	A Unmodified	1740900	1535200	1565700	0	0	0	0	0	22311
SAAAIALPPIAK	NBEA; LRBA; LRBA	Q8NFP9; P50851;	NBEA	HUM	/ Unmodified	1030200	1017100	946070	57969	0	0	0	0	0
SAAASNLSGLSLQEAQQILNVSK	PAM16; PAM16; PA	Q9Y3D7; I3L0X9;	TIM16	HUM	/ Unmodified	1622000	1606400	1665800	0	0	0	0	0	0
SAAASNLSGLSLQEAQQILNVSK	PAM16; PAM16; PA	Q9Y3D7; I3L0X9;	TIM16	HUM	/ Deamidation (N)	173440	0	445910	0	0	0	0	0	0
SAADAEGYLAHPVNAYK	P4HA2; P4HA2; P4H	O15460; E7ERI1;	P4HA2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SAADDSEAKSNELTR	TPR	P12270	TPR	HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
SAADEVDGLGVARPHYGSVLDNER	IQGAP1; IQGAP1; IQ	P46940; A0A0J9	IQGA1	HUM	A Acetyl (Protein N-t	1921300	1185100	2525000	0	0	0	0	0	0
SAADIIALAR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Unmodified	11176000	11905000	16749000	36108	34501	33846	0	0	0
SAADLISQAR	DPYSL3	Q14195	DPYL3	HUM	Unmodified	3044900	2014500	2401300	122740	115810	141140	26719	34576	41916
SAADSISESVPVGPK	USP5	P45974	UBP5	HUM	A Unmodified	10231000	10666000	10494000	854580	888750	910990	47401	0	0
SAAEMYGSSFDLDYDFQR	HNRNPC; HNRNPC;	G3V4C1; G3V251	G3V4C1	HUM	Oxidation (M)	4509900	3498600	3874500	0	0	0	0	0	0
SAAEMYGSSFDLDYDFQRDYYDR	HNRNPC; HNRNPC;	G3V4C1; G3V251	G3V4C1	HUM	Oxidation (M)	6538200	6162200	5687700	0	0	0	0	0	0
SAAETVTKGGIMLPEK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUM	Oxidation (M)	3614200	3947800	3940900	0	129190	0	0	0	0
SAAETVTKGGIMLPEK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUM	Oxidation (M);Met	4571700	6399900	5668600	0	0	0	0	0	0
SAAETVTKGGIMLPEKSQGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUM	Oxidation (M)	11137000	14682000	11153000	278940	238380	489250	0	19811	15360
SAAETVTKGGIMLPEKSQGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10	HUM	Oxidation (M);Met	1856500	1972700	1466000	0	0	0	0	0	0
SAAGLSSLVDLGPPLMEK	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT	HUM	Oxidation (M)	1828900	1003000	1287100	0	0	0	0	0	0
SAALPIFSSFVSNWDEATKR	RSL1D1; RSL1D1; R	O76021; J3QSV6;	RL1D1	HUM	Unmodified	2341400	2006900	2661600	0	0	0	0	0	0
SAALPIFSSFVSNWDEATKR	RSL1D1; RSL1D1; R	O76021; J3QSV6;	RL1D1	HUM	Deamidation (N)	0	355440	466410	0	0	0	0	0	0
SAAMLGNSEDHTALSR	SNX2	O60749	SNX2	HUM	Oxidation (M)	478690	466680	529230	0	0	57271	0	0	0
SAAMLGNSEDHTALSR	SNX2	O60749	SNX2	HUM	Oxidation (M);Dea	0	544470	0	0	0	0	0	0	0
SAAMTLNER	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1	HUM	Oxidation (M)	2359000	2973900	949800	0	0	30984	50660	0	0
SAAPHPGDIGDFINEGLK	CDH2; CDH2	P19022; C9J126	CADH2	HUM	Unmodified	3191800	0	3072500	0	0	0	0	0	0
SAAPLHSDQQPVPEQLR	DGKZ; DGKZ	Q13574; E9PNL8	DGKZ	HUM	/ Unmodified	1734900	1781200	1149000	64449	59661	64830	0	0	0
SAAPSTLDSSSTAPAQLGKK	SRPRB; SRPRB	Q9Y5M8; H7C4H	SRPRB	HUM	Unmodified	1326100	1238200	1325000	536860	377980	447780	50858	49625	0
SAAQAAAQTNSNAAGK	SERBP1	Q8NC51	PAIRB	HUM	Unmodified	488230	887160	681500	0	0	0	0	0	0
SAAQAAAQTNSNAAGK	SERBP1	Q8NC51	PAIRB	HUM	2 Deamidation (N)	5841700	2144500	3518500	0	245110	0	0	0	0
SAAQAAAQTNSNAAGK	SERBP1	Q8NC51	PAIRB	HUM	Deamidation (N)	0	0	1378500	0	0	0	0	0	0
SAAQAAAQTNSNAAGKQLR	SERBP1	Q8NC51	PAIRB	HUM	2 Deamidation (N)	1921200	2109000	1925600	200750	354750	240780	0	0	0
SAAQPSTSPAEVQSLKK	GOLGB1	O14789	GOGB1	HUM	Unmodified	949770	1394000	1211500	185290	358000	217270	47555	36895	0
SAAREDDSIRPFKVETSDEEIHDLHQR	EPHX1; EPHX1	P07099; B1AQP8	HYEP	HUM	A Unmodified	9221300	11185000	7428200	445810	427990	205420	0	0	0
SAATDIFSYLVEYNPSMVR	PPP4R3A; PPP4R3A	Q6IN85; H0YJN6;	P4R3A	HUM	Oxidation (M)	0	215640	547200	0	0	0	0	0	0
SAATLITHPFHVITLR	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2	HUM	Unmodified	8671500	10829000	10193000	0	0	0	0	0	0
SAATLQQEKTDTVR	FBLN1	P23142	FBLN1	HUM	Unmodified	942130	858520	1069600	806040	1131800	915020	519540	614590	424680
SAATSGAGSTTSGVVSGSLGSR	HUWE1	Q7Z6Z7	HUWE1	HUM	Unmodified	1866100	1458900	0	111580	0	58480	0	0	0
SAATWDER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1726300	0	1121900	0	0	0	0	0	0
SAATWDERFSALER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	4566300	4110000	4412100	49728	97382	0	0	0	0
SADESGQALLAAGHYASDEVR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	3470000	2028900	3449700	0	0	38826	0	0	0
SADESGQALLAAGHYASDEVREK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	2454100	2334200	2740700	0	0	0	0	0	0
SADFNPDFVFTEK	DDX27; DDX27; DD	Q96GQ7; B7Z6D5	DDX27	HUM	Unmodified	1698600	1171000	1858800	35065	30012	34058	0	0	0
SADGSPALK	GSS; GSS; GSS	P48637; A0A2R8	GSHB	HUM	Unmodified	448450	0	1569700	37505	55047	37956	0	0	0
SADIALVAGGSR	MRPL2; N/A; MRPL	Q5T653; A0A669	RM02	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SADLPAIISTWQELR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM	Unmodified	1051300	549940	653260	0	0	0	0	0	0
SADTLWDIQK	LDHB; LDHB	P07195; A0A5F9	LDHB	HUM	Unmodified	5675700	5373400	6091600	60716	34509	0	0	0	0
SADTLWDIQKDLK	LDHB; LDHB	P07195; A0A5F9	LDHB	HUM	Unmodified	2161500	1259000	1127500	0	0	0	0	0	0
SADTLWDIQKDLKDL	LDHB; LDHB	P07195; A0A5F9	LDHB	HUM	Unmodified	31708000	18232000	35717000	0	0	0	16488	0	0
SADTLWDIQKDLKDL	LDHB; LDHB	P07195; A0A5F9	LDHB	HUM	Methyl (KR)	7907200	3734400	6381700	0	0	0	0	0	0
SADTLWDIQKDLKDL	LDHB; LDHB	P07195; A0A5F9	LDHB	HUM	2 Methyl (KR)	234610	201140	176820	0	0	0	0	0	0
SADTLWGIQK	LDHA	P00338	LDHA	HUM	Unmodified	23710000	25045000	21736000	307740	332010	312430	29749	23739	34216
SADTLWGIQKELQF	LDHA	P00338	LDHA	HUM	Unmodified	30269000	25484000	28120000	0	0	0	22225	0	0
SADTLWGIQKELQF	LDHA	P00338	LDHA	HUM	Methyl (KR)	1424900	1066400	1550800	0	0	0	0	0	0
SADVEKLADELHMPSLPEMMFGDNVLR	TIPRL	O75663	TIPRL	HUM	/ 3 Oxidation (M)	4056700	3421800	4353400	0	0	0	0	0	0
SADVESVVSGTLR	ALDH4A1	P30038	AL4A1	HUM	Unmodified	634570	1956000	2258800	696440	635350	465560	128530	127080	15636
SAEAELQSK	PLEC	Q15149	PLEC	HUM	A Unmodified	0	1758700	1917600	301460	0	328230	0	0	0
SAEASARPLR	DCTN1; DCTN1; DC	Q14203; Q6AWB	DCTN1	HUM	Acetyl (Protein N-t	2097400	1788900	1880800	293690	0	300110	70801	0	0
SAEDELAMR	EXOSC2; EXOSC2; I	Q13868; A3KFL2;	EXOS2	HUM	Oxidation (M)	422480	558150	471250	0	0	0	0	0	0
SAEDSFTGFVR	LLGL2; LLGL2	Q6P1M3; J3QRV5	L2GL2	HUM	Unmodified	1366200	994570	1028400	175230	159360	125430	0	20329	0
SAEEEAADLPTKPTK	PCNP	Q8WW12	PCNP	HUM	A Unmodified	12920000	12796000	12250000	320240	218730	379730	0	0	0
SAEEEAADLPTKPTKISK	PCNP	Q8WW12	PCNP	HUM	A Unmodified	1048100	1252100	1023900	366010	388740	355910	0	0	0
SAEEGELAESK	TNKS1BP1	Q9C0C2	TB182	HUM	Unmodified	396110	0	162900	87847	106020	160960	0	24509	21279
SAEETFQLSR	STXBP3	O00186	STXB3	HUM	Unmodified	0	0	6176400	434860	773220	773720	0	0	0
SAEEVEEIKAEKEAK	PPIL4	Q8WUA2	PPIL4	HUM	A Unmodified	1062200	1037000	1126500	75607	70331	80951	0	0	0
SAEHYTETALDEIR	SRPK1; SRPK1; SRP	Q96SB4; H3BLV5	SRPK1	HUM	Unmodified	607430	918070	540210	0	0	0	0	0	0
SAEKEISLWFKPEELVDYK	NME2; NME1-NME2	P22392; Q32Q12	NDKB	HUM	Unmodified	2157400	1195100	2358600	0	0	0	0	0	0
SAELAAALLSIYMER	ESYT1	Q9BSJ8	ESYT1	HUM	Oxidation (M)	299640	160850	241790	0	0	0	0	0	0
SAELLLGK	KDM3B	Q7LBC6	KDM3B	HUM	Unmodified	494910	493120	375390	0	0	0	0	0	0
SAEQQPSEKSTEPK	CAST; CAST; CAST;	P20810; A0A6Q8	ICAL	HUM	A Unmodified	293480	363590	475040	577600	131430	129100	0	0	0
SAEVETSEGVDESEKKNSGALEKENQMR	HMOX2; HMOX2; H	P30519; I3L276;	HMOX2	HUM	A Acetyl (Protein N-t	0	0	5022000	0	0	0	0	0	0
SAFAPFGK	TIAL1; TIAL1; TIAL	Q01085; E7ETJ9;	TIAR	HUM	A Unmodified	3032200	2807800	2651200	103170	81525	134690	0	0	0
SAFAPFGKISDAR	TIAL1; TIAL1	Q01085; E7ETJ9	TIAR	HUM	A Methyl (KR)	418690	554290	0	0	0	0	0	0	0
SAFEETGK	CNPY3; CNPY3	Q9BT09; A0A0C4	CNPY3	HUM	Unmodified	2380900	1503400	752420	0	0	0	0	0	0
SAFLCGVMK	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR	HUM	Oxidation (M)	746630	1529500	917370	0	0	0	0	0	0
SAFLQAFLGR	RHOT2	Q8IXI1	MIRO2	HUM	Unmodified	1312000	838690	915010	0	0	0	0	0	0
SAFLQVQPR	CAMSAP3	Q9P1Y5	CAMP3	HUM	Unmodified	958490	1221900	1013800	149680	122930	106900	0	0	0
SAFLSQR	NUP214; NUP214; N	P35658; A0A494	NU214	HUM	Unmodified	0	2128900	0	335270	268550	445700	52677	0	37350
SAFSEEVNIK	FLOT2; FLOT2; FLO	Q14254; J3QLD9;	FLOT2	HUM	Unmodified	0	708960	637760	130810	0	0	0	0	0
SAFSNLFGGEPLSYTR	TFRC; TFRC	P02786; F8WBE5	TFR1	HUM	A Deamidation (N)	2712600	5239000	4605300	0	0	0	0	0	0
SAFSNLFGGEPLSYTR	TFRC; TFRC	P02786; F8WBE5	TFR1	HUM	A Unmodified	22218000	17001000	22011000	30516	0	0	53201	0	12278
SAGAETDNAVPQGSKLELPLWLAK	GINS3	Q9BRX5	PSF3	HUM	Unmodified	728230	626910	0	0	0	0	0	0	0
SAGAKSSGGREDLESSGLQR	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUM	A Unmodified	370200	685380	729660	0	0	0	0	0	0
SAGEEEDGPVLTDEQKSR	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4	HUM	Unmodified	2863100	3504500	3174000	416710	402080	479440	94526	100600	143060
SAGGQLNSSGPSASQLQQLQMQLQLER	KCMF1	Q9P0J7	KCMF1	HUM	Oxidation (M);Dea	2640900	1662800	2571200	0	0	0	0	0	0
SAGKYDVYLINPQGK	MECP2; MECP2; ME	P51608; A0A0D9	MECP2	HUM	Unmodified	431020	380930	415070	384040	379580	398040	20503	0	25388
SAGLAFSLYQAMAK	SERPINH1; SERPIN	P50454; E9PK86;	SERPH	HUM	Oxidation (M)	1547000	1839900	1638800	15593	0	0	0	0	0
SAGLFQNPK	CCS; CCS; CCS	O14618; J3KNF4;	CCS	HUM	A Unmodified	1890300	1784500	1897000	0	0	0	0	0	18854
SAGLPSHSSVISQHSK	MRPS36	P82909	RT36	HUM	A Unmodified	4125700	7790000	4415700	225970	267070	642570	0	0	0
SAGQGEVLVYVEDPAGHQEEAK	FLNA; FLNA; FLNA	P21333; A0A7I2	FLNA	HUM	A Unmodified	5550200	1586500	1676600	382090	212960	0	112780	99899	0
SAGSIPGER	RELA; RELA; RELA	Q04206; A0A087	TF65	HUM	A Unmodified	2572000	2645400	2616700	392140	349420	465720	0	0	0
SAGVQCFGPTAEAAQLESSKR	GART; GART; GAR1	P22102; C9JZG2;	PUR2	HUM	A Unmodified	1808900	2235400	1968000	45591	43463	53912	0	0	0
SAGYLDDVTLASAR	LAMC1	P11047	LAMC1	HUM	Unmodified	0	1110300	861280	0	80069	121420	0	0	0
SAHATAPVNIAGSR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	14016000	16470000	17362000	1912900	249990	1956100	212720	210170	20510
SAHLQWMVVR	RPL28; RPL28; RPL	P46779; H0YKD8	RL28	HUM	A Acetyl (Protein N-t	5464200	4483800	5623400	218310	191070	166680	42922	47473	61200
SAILGLPQPLLELNDSPVFK	XPO5	Q9HAV4	XPO5	HUM	A Unmodified	72537	0	80746	0	0	0	0	0	0
SAINEVVTR	RPL31; RPL31; RPL	P62899; H7C2W9	RL31	HUM	A Deamidation (N)	6186000	5515900	5465400	147630	207050	183180	0	0	0
SAINEVVTR	RPL31; RPL31; RPL	P62899; H7C2W9	RL31	HUM	A Unmodified	15149000	15981000	16745000	458650	406380	466020	34294	8787	51812
SAIPAEESDQLLIRPLGAGQEVGR	CPSF3	Q9UKF6	CPSF3	HUM	A Acetyl (Protein N-t	3948000	3453300	3522500	0	0	0	0	0	0
SAIPHPLIMGVIR	COPS2; COPS2; COP	P61201; B4DIH5;	CSN2	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
SAIQLGNYK	DCN; DCN	P07585; H0YI87	PGS2	HUM	Unmodified	541470	472040	585590	456020	510850	531540	107770	0	78109
SAIQNLHSFDPFADASK	EIF1; EIF1	P41567; K7EM18	EIF1	HUM	A Acetyl (Protein N-t	1534700	1396600	1468100	0	0	10106	0	0	0
SAIQNLHSFDPFADASK	EIF1; EIF1	P41567; K7EM18	EIF1	HUM	A Acetyl (Protein N-t	255460	245200	405490	0	0	0	0	0	0
SAITPGGLR	SHMT2; SHMT2	P34897; H0YIZ0	GLYM	HUM	Unmodified	12847000	14066000	13826000	451280	466740	458820	66831	35666	28911
SAIVHLINYQDDAELATR	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUM	A Unmodified	7365300	7794300	7388900	0	0	0	0	0	0
SAIVHLINYQDDAELATR	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUM	A Deamidation (N)	2230500	2421200	2171400	11177	0	0	22001	0	0
SAIYGFGDQSNLR	SCCPDH	Q8NBX0	SCPDL	HUM	Unmodified	1736900	1616200	1548000	95401	82917	93502	0	0	0
SAIYGFGDQSNLRK	SCCPDH	Q8NBX0	SCPDL	HUM	Unmodified	1005800	658070	0	34435	56811	0	0	0	0
SAIYQLEEEYENLLK	DSP	P15924	DESP	HUM	A Unmodified	930310	220200	662010	0	0	0	0	0	0
SAKGEEVDVAR	DDAH1	O94760	DDAH1	HUM	Unmodified	8269500	5489800	6342700	302150	309920	293130	0	0	0
SAKPGDDVREP	OXCT1; OXCT1	P55809; E9PDW2	SCOT1	HUM	A Unmodified	2360600	1957000	2857600	108770	129090	0	0	0	0
SAKPTKPAASDLPVPAEGVR	CALD1; CALD1; CA	Q05682; C9J813;	CALD1	HUM	Unmodified	2910100	4032900	3237200	709030	733590	741600	1202200	778080	245690
SAKSKGNPSSSCPAEGPPAASK	PRR16	Q569H4	LARGN	HUM	A Acetyl (Protein N-t	0	0	570520	0	30452	0	0	20881	0
SALALVTGAGSGIGR	HSD17B8	Q92506	DHB8	HUM	A Unmodified	197540	914900	1674100	0	0	0	0	0	0
SALDTAAR	FAM3C; FAM3C; FA	Q92520; C9JMN4	FAM3C	HUM	Unmodified	1456900	1198900	1186200	863370	197820	201380	0	0	0
SALEEFSKMKEEVPTALVEAHVR	SMARCC2; SMARCC	Q8TAQ2; F8VXC	SMRC2	HUM	Oxidation (M)	1097900	1842300	1072000	0	0	0	0	0	0
SALEQMRK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
SALLDEKR	MYH10	P35580	MYH10	HUM	Unmodified	575900	557200	542540	35553	0	39375	0	0	0
SALLPGPLELQPPR	INPPL1; INPPL1; INF	O15357; H0YFZ4	SHIP2	HUM	Unmodified	1499000	4082500	3265200	44749	23160	17430	0	0	0
SALPYSSFSSDQGLGESSAAPSQPITAVK	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1	HUM	Unmodified	2999500	1278600	1534200	0	0	0	0	0	0
SALPYSSFSSDQGLGESSAAPSQPITAVKDMPVR	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1	HUM	Oxidation (M)	2121900	0	2872000	0	0	0	0	0	0
SALQSINEWAAQTTDGKLPEVTK	SERPINH1; SERPINH	P50454; E9PK86;	SERPH	HUM	Unmodified	1345200	973010	922200	0	0	0	0	0	0

SALYSPSDPLTLLQADTVR	QSOX1; QSOX1	O00391; A8MXT3	QSOX1	HUM	Unmodified	1609800	1066200	0	0	0	0	0	0	0
SAMPADAPLCLR	FMOD; FMOD	Q06828; A0A3B3	FMOD	HUM	Oxidation (M)	187760	0	204190	423840	480040	404780	0	0	0
SAMPFTASPASSTTAR	PDLIM1	O00151	PDLI1	HUM	Oxidation (M)	5371300	4302100	4783000	1189900	1464700	1609300	564600	640800	601560
SAMRAVAALLTIPEAEK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1	HUM	Oxidation (M);Met	0	0	487100	0	0	0	0	0	0
SAMSVQSSLVMHPIYAYGSEEQR	GCDH; GCDH; GCD	O92947; K7EKH1	GCDH	HUM	2 Oxidation (M)	0	0	10277000	164970	0	0	0	0	0
SANILVGNGLICK	FYN	P06241	FYN	HUMAN	Deamidation (N)	0	0	0	0	0	0	0	0	0
SANLVAATLGAILNR	HK1	P19367	HXK1	HUMA	Unmodified	756250	190010	696820	0	0	0	0	0	0
SANPAMQLDR	PEF1	Q9UBV8	PEF1	HUMA	Oxidation (M)	564440	853710	607120	0	0	0	0	0	0
SAPAGSSHPAASAR	SEC24B	O95487	SC24B	HUM	Acetyl (Protein N-t	2601300	1976200	2399600	675260	1051100	982280	0	0	0
SAPAMQSSGSFNYARPK	PALLD; PALLD	Q8WX93; A0A3B	PALLD	HUM	Oxidation (M)	0	0	0	0	0	0	109010	0	0
SAPASQASLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	7319700	8875200	8808100	1565900	1678000	1962200	0	240010	238120
SAPELKTGISDVFAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	3440400	4640500	0	0	18370	90392	0	0	0
SAPELKTGISDVFAKNDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	1290400	1223800	1550300	0	0	0	0	0	0
SAPEPKKPEENPASK	EIF4B; EIF4B	P23588; E7EX17	IF4B	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SAPEPKKPEENPASKFSSASK	EIF4B; EIF4B	P23588; E7EX17	IF4B	HUMA	Unmodified	0	0	0	338640	0	222510	97263	0	0
SAPFFIPTIPGLVPR	WDR36; WDR36	Q8NI36; A0A0A0	WDR36	HUM	Unmodified	1192700	906910	1305900	0	0	0	0	0	0
SAPGGGSKVPQK	NPM1; NPM1; NPM1	P06748; A0A7I2	NPM	HUMA	Unmodified	4110500	3283000	3425500	374320	347390	368200	0	0	65523
SAPLEIGLQR	CDC73; CDC73; CD	Q6P1J9; A0A2R8	CDC73	HUM	Unmodified	5930100	4664400	4756700	291500	329170	348600	29052	24593	38239
SAPLIADQAVLQLLPK	NCEH1; NCEH1	Q6PIU2; A0A0A0	NCEH1	HUM	Unmodified	527710	472330	0	0	0	0	0	0	0
SAPPQLPSFYK	DDX42; DDX42; DD	Q86XP3; J3QRI2	DDX42	HUM	Unmodified	0	1425700	1074300	225230	215610	211750	35852	35515	40881
SAPSIPKENFSCLTR	MDH1; MDH1; MDH	P40925; C9JF79;	MDHC	HUM	Unmodified	0	909970	684110	0	33432	33180	0	26336	0
SAPSRPQQAGYEAPVLFR	BLOC1S4	Q9NUP1	BLS4	HUM	Unmodified	722330	574480	583310	32921	0	0	0	0	0
SAPWNSFLPPPPPMPGPR	SMN1; SMN1; SMN2	Q16637; E7EQZ4	SMN	HUMA	Oxidation (M);Dea	810930	456790	974780	26979	25145	25342	0	0	0
SAPYEFPEESPIEQLEER	AMPD2; AMPD2; AM	Q01433; A0A7P0	AMPD2	HUM	Unmodified	1057700	1446800	1399200	0	0	0	0	0	0
SAQDPTMLQFK	CGN	Q9P2M7	CING	HUMA	Oxidation (M)	0	0	0	267370	168420	252770	0	0	0
SAQFEHTLLVTDTGCEILTR	METAP1; METAP1;	P53582; H0Y903;	MAP1I	HUM	Unmodified	910580	0	0	0	0	0	0	0	0
SAQGSSSPVPSMVQK	NUP214; NUP214; N	P35658; A0A494	NU214	HUM	Oxidation (M)	565550	896490	688130	110690	81786	98658	0	0	0
SAQIADLQQK	KIF4A; KIF4B	O95239; Q2VIQ3	KIF4A	HUM	Unmodified	0	868340	1255200	0	0	0	0	0	0
SAQNLPGGGPASHSNPR	CEP41; CEP41; CEP	Q9BYV8; A0A6Q	CEP41	HUM	Unmodified	1050200	1262000	1871200	323150	469390	426110	13681	0	115700
SAQPLPLKIEELALAK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	6306500	8249200	6687100	21505	0	0	18250	0	12302
SARDHAISLSEPR	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C	HUM	Unmodified	867630	0	0	93350	205120	61801	0	0	0
SASAPAAEGEGTPTQPASEKEPEMPGPR	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Acetyl (Protein N-t	3258500	2662600	3074200	0	0	0	0	0	0
SASASHQADIKEAR	LBR; LBR; LBR	Q14139; A0A494	LBR	HUMA	Unmodified	197570	129260	176490	18898	17419	0	0	0	0
SASLDVEPIYTFR	STRN3	Q13033	STRN3	HUM	Unmodified	1935900	2410100	1944300	43507	0	32906	0	0	0
SASMDSLTFVK	CRAT; CRAT; CRAT	P43155; A0A7P01	CACP	HUMA	Oxidation (M)	0	1506000	540130	29886	57999	0	0	0	0
SASSASSLFSPSSTLFSSSR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1	HUM	Unmodified	1497400	1321700	1163500	54742	64230	18169	0	0	0
SASSEHPPGPSESK	PLEKHA1	Q9HB21	PKHA1	HUM	Unmodified	689110	0	0	0	0	0	0	0	0
SASSGAEGDVSSEREP	DTD1	Q8TEA8	DTD1	HUMA	Unmodified	4388300	3406600	4154400	869320	731770	0	0	0	0
SATEEDTIR	LYRM2	Q9NU23	LYRM2	HUM	Unmodified	220110	947990	433620	0	36538	0	0	0	0
SATEQSGTGIR	AIFM1; AIFM1; AIFM	O95831; E9PMA0	AIFM1	HUM	Unmodified	0	5949500	0	0	829940	634580	0	0	0
SATKDSLIIIDELGR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	1230800	3171000	3509200	0	0	0	0	0	0
SATKVTADVINAAEKLQVVGR	PHGDH; PHGDH; PH	O43175; A0A286	SERA	HUMA	Unmodified	0	1611600	2560200	0	0	0	0	0	0
SATLASIDAELQK	KIF5B	P33176	KIN	HUMA	Unmodified	1312700	936390	1125400	0	0	0	0	0	0
SATLPLPAR	SORBS1; SORBS1	Q9BX66; A0A0U	SRBS1	HUM	Unmodified	3110200	2358700	3723100	458530	539290	387220	1120700	999190	1033300
SATLPYIKQEEFSPR	NCOR1; NCOR1	O75376; A0A088	NCOR1	HUM	Unmodified	1193100	1059900	1021600	97146	87039	82881	32807	0	0
SATNLPQLKELYQLSK	LIG3	P49916	DNLI3	HUM	Unmodified	327750	311210	537150	0	0	0	0	0	0
SATNTTLPHMLMSQR	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B	HUMA	2 Oxidation (M)	760260	1032100	855610	79180	100670	158090	0	0	0
SATQFTGR	NAXE; NAXE	Q8NCW5; A0A7P	NNRE	HUM	Unmodified	662460	0	0	141480	99686	125380	7624.7	0	0
SATSVDQRPK	YTHDF3; YTHDF3;	Q7Z739; S4R373;	YTHD3	HUM	Acetyl (Protein N-t	2711000	2770500	2162500	228480	216640	274210	0	0	0
SATYVNTEGR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	3138000	2301500	2847400	381030	460010	404850	0	0	0
SAVEAERLVAGK	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	5477200	4779800	4210600	78434	66372	82809	0	0	0
SAVEAQNEVTENPK	LRRFIP1	Q32MZ4	LRRF1	HUM	Unmodified	719600	946690	0	0	0	0	0	0	0
SAVEDEGLK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Unmodified	16050000	17567000	16886000	754900	823010	789830	22778	31362	0
SAVEQLCLAESTRPR	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5	HUM	Unmodified	1347400	2217000	1939600	48214	84998	0	0	0	0
SAVGFDYQGK	CTTN	Q14247	SRC8	HUMA	Unmodified	819540	773490	784100	132090	0	78677	0	0	0
SAVGFEYQGK	CTTN	Q14247	SRC8	HUMA	Unmodified	3728300	1009300	3098200	71623	0	0	0	0	0
SAVGHEYQSK	CTTN	Q14247	SRC8	HUMA	Unmodified	328920	530910	335940	0	80940	64307	0	0	0
SAVLHSQSSSSSSSR	CHD1L; CHD1L; CH	Q86WJ1; A0A0A0	CHD1L	HUM	Unmodified	147060	317750	407760	96928	64215	68963	0	0	0
SAVLQEAR	COPG1; COPG2	Q9Y678; Q9UBF2	COPG1	HUM	Unmodified	7495600	8889500	7083100	0	0	0	42747	0	0
SAVLSEPVLFLKPSTAYAPEGSPILMPAYTR	FAHD1	Q6P587	FAHD1	HUM	Oxidation (M)	5182000	9262000	5610800	0	0	0	0	0	0
SAVPPGADKKAEAGAGSATEFQFR	RPS10	P46783	RS10	HUMA	Unmodified	13161000	14228000	10858000	2532500	3691500	3352200	510840	1409900	860770
SAVQGPPER	IGHA2; IGHA1; IGHJ	P01877; P01876;	IGHA2	HUM	Unmodified	0	0	0	134900	0	337660	0	16082	10294
SAVRFLNESTLENNAGNLKR	ZNF654	A0A1B0GWA0	A0A1B0GWA	HUM	Methyl (KR);3 Dea	8875400	9835500	9405200	182760	186390	156450	0	0	0
SAVSPDLHITPIYEGR	PKP4; PKP4	Q99569; A0A0D9	PKP4	HUMA	Unmodified	2349800	2556900	2214100	440260	449600	353340	0	0	0
SAVTTVVNPK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	13183000	13199000	13453000	1054900	1118700	670070	187730	77904	191760
SAVTTVVNPKYEGK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	3077000	890950	0	957090	679430	1178900	0	89498	425290
SAVVEMLIMR	ILK; ILK; ILK	Q13418; A0A087	ILK	HUMAN	2 Oxidation (M)	1294500	1488400	1120200	0	0	62948	0	30465	0
SAVYPLLYRDGEQTEPSR	NCOR2; NCOR2; NC	Q9Y618; C9J0Q5	NCOR2	HUM	Unmodified	916430	747120	0	116380	63409	93359	24770	0	32706
SAWLSGYENPVVSR	P4HA1	P13674	P4HA1	HUM	Unmodified	4262900	4852600	5713400	0	0	30541	0	0	0
SAYASGTTAK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	348560	217830	239830	165290	94849	0	0	0	0
SAYDSTMETMNYAQIR	ACLY	P53396	ACLY	HUM	2 Oxidation (M)	3585500	4663700	2190700	106070	79492	103940	0	0	0
SAYEEQR	EIF3A	Q14152	EIF3A	HUM	Unmodified	1567100	1344700	1433300	72141	0	0	0	0	0
SAYEFSETESMLK	LTA4H	P09960	LKHA4	HUM	Oxidation (M)	3159600	3347600	4538800	381910	337020	332080	0	0	0
SAYESQPIR	PTCD3	Q96EY7	PTCD3	HUM	Unmodified	565100	532640	670980	0	0	0	0	0	0
SAYNVYVAER	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM	Unmodified	6785900	6045900	7445900	421120	325630	420340	0	0	0
SAYNVYVAERFQEAKGDSPQEK	TFAM; TFAM	Q00059; H7BYN3	TFAM	HUM	Unmodified	2515500	2077700	2131900	112040	84555	40282	0	31407	0
SAYPPAPAYALSSPR	ARID1A	O14497	AR11A	HUM	Unmodified	0	1754700	99859	60436	60291	89302	0	0	0
SAYQEAMDISK	SFN	P31947	1433S	HUMA	Oxidation (M)	1712900	4691600	3643800	0	0	0	0	0	0
SAYQEAMDISKK	SFN	P31947	1433S	HUMA	Oxidation (M)	9016500	10892000	10508000	0	0	35397	0	0	0
SAYQEAMDISKKEMPPTNPIR	SFN	P31947	1433S	HUMA	2 Oxidation (M)	2351900	2707800	2320800	0	0	0	0	0	0
SAYYPEDLFIDKK	GPC3; GPC3	P51654; H0Y3U6	GPC3	HUMA	Unmodified	675970	768560	897990	0	0	0	0	0	0
SCAEWVSLSK	ATP5PD	O75947	ATP5H	HUM	Unmodified	1161600	1380100	1371600	46185	25894	55391	0	0	0
SCAHDWVYE	NME2P1; NME2; NM	O60361; P22392;	NDK8	HUMA	Unmodified	1328300	1044700	1149200	0	205690	0	0	0	0
SCDTPPPCPR	IGHG3; IGHG3; IGH	P01860; A0A4W9	IGHG3	HUM	Unmodified	938180	770700	764100	285060	227050	281640	0	0	31541
SCEKEVVSAQPATFLAR	GRN; GRN; GRN; GI	P28799; K7EQ05;	GRN	HUMA	Unmodified	0	0	0	436670	354330	307490	0	0	0
SCILRPGGSEDASAMLR	THOP1; THOP1; THO	P52888; K7EL02;	THOP1	HUM	Oxidation (M)	0	978090	1287300	0	0	0	0	0	0
SCKTAPASSSKSQTEVPKR	MKI67	P46013	KI67	HUMAN	4 Methyl (KR)	953590	0	464020	0	0	0	0	0	0
SCMLTGTPESVQSAKR	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1	FUBP1	HUM	Oxidation (M)	2037900	1481700	1343600	0	0	0	0	0	0
SCSPELQQK	CBR1	P16152	CBR1	HUMA	Unmodified	1079300	1070300	1017900	0	0	0	0	0	0
SCTVNIMFGTPQEHR	NCOA5	Q9HCD5	NCOA5	HUM	Oxidation (M)	579620	509090	0	29194	27234	30122	0	0	0
SDAAVDTSSEITTK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Unmodified	756090	926000	598010	0	0	0	0	0	0
SDAAVDTSSEITTK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	0	702130	654560	0	0	0	0	0	0
SDAAVDTSSEITTKDLK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	43466000	43026000	45125000	1300600	920410	909980	0	0	0
SDAAVDTSSEITTKDLK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	32380000	28682000	30317000	150950	214930	161350	0	0	0
SDAAVDTSSEITTKDLKEK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	25029000	20573000	21700000	172040	155740	89008	0	0	0
SDAAVDTSSEITTKDLKEK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	2780600	2856000	3632400	0	0	0	0	0	0
SDAAVDTSSEITTKDLKEK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	1965700	2721900	2418900	0	0	0	0	0	0
SDAAVDTSSEITTKDLKEKK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	39546000	35312000	36944000	1436200	1351100	1556200	53668	0	0
SDAAVDTSSEITTKDLKEKK	PTMA; PTMA	P06454; B8ZZQ6	PTMA	HUM	Acetyl (Protein N-t	12250000	12130000	12994000	189410	113670	109600	0	0	0
SDAGLESDTAMK	DDX21	Q9NR30	DDX21	HUM	Oxidation (M)	703450	730840	0	0	0	0	0	0	0
SDALETLGFLNHYQMK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M);Dea	8879000	7812000	10744000	18777	0	0	0	0	0
SDALETLGFLNHYQMK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Oxidation (M)	8161300	6134600	5168400	33589	13944	0	20991	24286	27646
SDALNSAIDKMTK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1	HUM	Oxidation (M);Dea	309130	363660	0	36594	40816	46200	0	0	0
SDASPSSIR	MCM5; MCM5	P33992; B1AHA9	MCM5	HUM	Unmodified	3722700	0	5418100	0	77197	62545	48671	61536	76888
SDATADDLIDVVEGNR	DRG1	Q9Y295	DRG1	HUMA	Unmodified	235130	260630	421110	0	0	0	0	0	0
SDDEVDDPAVELKQFGVAPFTIAR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	411420	145670	177890	0	0	0	0	0	0
SDDHPDVVYETMR	APPL1	Q9UKG1	DP13A	HUM	Oxidation (M)	364130	351650	404250	0	0	0	0	0	0
SDDMFTFHGPGK	RANBP2	P49792	RBP2	HUMA	Oxidation (M)	842000	522600	683420	52364	100530	63835	5159.3	0	0
SDEDKDKEGEALEVK	TOMM70	O94826	TOM70	HUM	Unmodified	515210	576500	555990	0	0	0	0	0	0
SDEDYLYREELAQFHR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUMA	Unmodified	528560	391820	352570	0	0	0	0	0	0
SDEFSLADALPEHSPAK	MAPK1IP1L	Q8NDC0	MISSL	HUM	Acetyl (Protein N-t	12687000	11139000	12439000	543750	452440	498380	0	52098	46176
SDEGQLSPATR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	3783900	5016600	5165500	756450	586700	824790	0	0	0
SDFDSNPFADPDLNNPFKDPSVTQVTR	SCAMP1	O15126	SCAM1	HUM	Acetyl (Protein N-t	1705500	1099200	1488000	0	0	0	0	0	0
SDFFLEGPFMPPR	EIF4G2; EIF4G2; EIF	P78344; H0YCH5	IF4G2	HUMA	Oxidation (M)	3258700	2285800	2509100	0	34092	34866	0	13923	0
SDFGKFVLSSGK	CALR; CALR; CALR	P27797; A0A7P01	CALR	HUM	Unmodified	2366100	1865000	1562500	66428	92621	82138	0	0	0
SDFSDSIK	MIA3; MIA3	Q5JRA6; A0A0A0	TGO1	HUMA	Unmodified	307360	444700	0	0	51222	0	0	0	0
SDGALLLGASSLSGR	WDR77	Q9BQA1	MEP50	HUM	Unmodified	796720	453020	784860	50379	41495	42429	0	0	0
SDGIYIINLKR	RPSA; RPSA; RPSA;	P08865; A0A0C4	RSSA	HUMA	Unmodified	531990	205460	362090	0	0	0	0	0	0
SDHGDVSLPPEDRVR	STAMBP; STAMBP;	O95630; C9JZ93;	STABP	HUM	Acetyl (Protein N-t	481620	601500	449300	109060	108520	120870	0	0	0
SDIAPVAR	A2M; A2M	P01023; H0YFH1	A2MG	HUM	Unmodified	1146800	1319600	1370300	16777	13743	12971	0	0	0
SDIATLLK	USP15; USP15; USP1	Q9Y4E8; H0YD31	UBP15	HUM	Unmodified	275520	358660	352510	0	0	9178.1	0	0	0
SDIAVPIPK	CRYZ; CRYZ; CRYZ	Q08257; A6NP24;	QOR	HUMA	Unmodified	1533600	1291000	1261400	77564	91517	84274	0	0	0
SDIDEIVLVGGSTR	HSPA5; HSPA5	P11021; A0A7P01	BIP	HUMAN	Unmodified	12736000	8697600	9687400	62875	35585	52257	0	0	12543
SDIDEIVLVGGSTRIPK	HSPA5; HSPA5	P11021; A0A7P01	BIP	HUMAN	Unmodified	1237500	1194800	1275600	0	0	0	0	0	0
SDIGEVILVGGMTR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Oxidation (M)	2348900	1588500	2591800	0	53856	47343	0	12020	0
SDIPEPEREQK	THOC2; THOC2; TH	Q8NI27; A0A0C4	THOC2	HUM	Unmodified	1700600	1484500	1741700	0	0	0	0	0	0
SDISPLTPR	MAP1B	P46821	MAP1B	HUM	Unmodified	3535000	3294700	3504800	584010	596550	615360	0	43156	0
SDIVQLR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Unmodified	0	0	1454100	0	0	0	0	0	0
SDKLPYK	AHCY	P23526	SAHH	HUMA	Acetyl (Protein N-t	11737000	11558000	11278000	671280	602840	548900	0	0	30409
SDKLPYKVADIGLAAWGR	AHCY	P23526	SAHH	HUMA	Acetyl (Protein N-t	0	953710	966340	0	0	0	0	0	0
SDKMNIFGGFR	SLC25A24	Q6NUK1	SCMC1	HUM	Oxidation (M)	1097700	864870	1393200	0	0	0	0	0	0
SDKPDLSEVEK	TMSB15B; TMSB15;	P0CG35; P0CG34	TB15B	HUM	Acetyl (Protein N-t	2730900	2589200	2692200	0	38303	43683	51372	73715	64310

SDKPDLSEVEKFDR	TMSB15B; TMSB15;	P0CG35; P0CG34	TB15B_HUM.	Acetyl (Protein N-t	40943000	41805000	44452000	266990	252620	196890	0	0	18013
SDKPDLSEVEKFDR	TMSB15B; TMSB15;	P0CG35; P0CG34	TB15B_HUM.	Acetyl (Protein N-t	1887000	1521600	1541300	0	0	0	0	0	0
SDKPDLSEVEKFDRSK	TMSB15B; TMSB15;	P0CG35; P0CG34	TB15B_HUM.	Acetyl (Protein N-t	974160	856030	1587100	112990	108840	105200	14106	15341	14847
SDKPDMAEIEK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	32513000	30525000	33697000	461940	384140	482400	0	0	0
SDKPDMAEIEK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	3206000	5006600	3497500	0	57517	0	0	0	0
SDKPDMAEIEKFDK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	259230000	276760000	329090000	2190300	2669400	3218500	15588	90060	71791
SDKPDMAEIEKFDK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	23541000	28250000	26941000	279380	295480	310190	0	0	0
SDKPDMAEIEKFDK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	0	1584800	443170	0	0	0	0	0	0
SDKPDMAEIEKFDKSK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	176240000	183920000	187260000	14357000	15244000	16051000	556370	607300	358420
SDKPDMAEIEKFDKSK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	4818800	2390800	6138500	119960	68396	130260	19875	0	0
SDKPDMAEIEKFDKSK	TMSB4X	P62328	TYB4_HUMA	Acetyl (Protein N-t	43409000	37712000	38660000	2422000	2273400	2247800	222860	117050	170110
SDKSELKAELER	DYNC1I2; DYNC1I2;	Q13409; E7ERR6;	DC1I2_HUMA	Acetyl (Protein N-t	3371400	2457100	2077600	43539	0	0	0	0	0
SDKSPDLAPTPAPQSTPR	EIF2A; EIF2A	Q9BY44; F8WAE	EIF2A_HUMA	Unmodified	1478700	1684200	1760100	191000	309180	340000	0	0	0
SDLAVEAGAPYAER	IGSF8; IGSF8	Q969P0; C9J8Z4	IGSF8_HUMA	Unmodified	2118600	1832500	1268500	0	229810	0	0	0	0
SDLAVPSELALLK	LGALS3BP	Q08380	LG3BP_HUM	Unmodified	14679000	12517000	12842000	22894	16442	0	9731.3	0	0
SDLDAVSMK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
SDLEQLDHEVK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	269640	389020	264150	0	0	0	0	0	0
SDLGPCEK	LUC7L3; LUC7L3; L	O95232; J3KPP4;	LC7L3_HUM.	Unmodified	457340	508580	394440	0	0	0	0	0	0
SDLKAEALASAIASTK	ARMC1	Q9NVT9	ARMC1_HUM	Unmodified	1030900	0	782590	0	0	0	0	0	0
SDLLLSGR	PRMT5; PRMT5; PR	O14744; G3V2L6;	ANM5_HUM.	Unmodified	0	1196200	1526900	0	34099	44418	0	0	0
SDLLLSGRDWNTLIVGK	PRMT5; PRMT5; PR	O14744; G3V2L6;	ANM5_HUM.	Deamidation (N)	879700	711940	804400	0	0	0	0	0	0
SDLLLSGRDWNTLIVGK	PRMT5; PRMT5; PR	O14744; G3V2L6;	ANM5_HUM.	Unmodified	4166600	2855400	0	0	0	0	0	0	0
SDLLSAIR	WASF2	Q9Y6W5	WASF2_HUM	Unmodified	2920600	3365600	2852300	64623	64456	52657	0	0	0
SDLQMQK	EBNA1BP2; EBNA1I	Q99848; H7C2Q8	EBP2_HUMA	Oxidation (M)	766020	735210	0	62765	68284	70441	11968	0	0
SDLREEILMLMAR	PTCD3	Q96EY7	PTCD3_HUM	2 Oxidation (M)	1071900	706820	836630	0	0	0	0	0	0
SDLTVDAVK	RRP12; RRP12; RRP	Q5JTH9; H7C1M8	RRP12_HUM.	Unmodified	1131500	586850	437300	28913	0	0	0	0	0
SDLYAVEMKKP	NIT2	Q9NQR4	NIT2_HUMA	Oxidation (M)	1555100	1615500	1081100	0	0	0	0	0	0
SDLYSSGR	RBMX; RBMX	P38159; H3BUY5	RBMX_HUM.	Unmodified	21988000	22150000	19794000	1217100	1311300	1206400	0	0	0
SDLYSSGRDR	RBMX; RBMX	P38159; H3BUY5	RBMX_HUM.	Unmodified	9741300	8985300	10709000	1130000	1344800	1314900	0	0	0
SDMGVGVFTPTIEAR	PTPRF; PTPRF; PTP	P10586; H0Y4H1;	PTPRF_HUM.	Oxidation (M)	1023300	1477700	1053300	291260	309360	291270	0	0	11251
SDMLLSR	NIPSNAP2; NIPSNAI	O75323; C9K068;	NIPS2_HUM	Oxidation (M)	1723500	3036500	2511100	86338	131820	166950	0	0	0
SDNGELEDKPPAPPVR	PAK2	Q13177	PAK2_HUMA	Acetyl (Protein N-t	5645900	6841600	6448300	421560	667720	743980	0	0	0
SDNVLLGMEGSVK	PAK2; PAK2	Q13177; H7C1X3	PAK2_HUMA	Oxidation (M)	1261000	1351000	1164400	99080	66528	53526	0	0	0
SDPDPKAPANK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM_HUM	Unmodified	1194000	1535300	1624500	122420	58644	84762	0	0	0
SDPEGENIHAGLLK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1_HUM	Unmodified	970800	1018400	1899100	0	49002	30156	0	0	0
SDPFLEFFR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1_HUM	Unmodified	6597600	5967300	6423200	17844	0	14332	0	0	0
SDPFVPPAASSEPLSTPWNELNYVGGR	AKAP8; AKAP8; AK	O43823; A0A7P0	AKAP8_HUM	Unmodified	405250	391530	313070	0	0	0	0	0	0
SDPGLLTNTMDVFVK	PRKDC; PRKDC	P78527; H0YG84	PRKDC_HUM	Oxidation (M)	293770	392500	344380	0	0	0	0	0	0
SDPIMLLKDR	PDHA1; PDHA1	P08559; Q5JPU3	ODPA_HUMA	Oxidation (M)	806030	396140	608920	0	0	0	0	0	0
SDPIQEIR	ERP44	Q9BS26	ERP44_HUM	Unmodified	2256100	1856800	1873500	92762	81101	88485	0	0	0
SDPIQEIRDLAEITTLDR	ERP44	Q9BS26	ERP44_HUM	Unmodified	2419900	1056700	2290900	0	0	0	0	0	0
SDPNQHLTIIQDPEYR	AGL	P35573	GDE_HUMAN	Unmodified	1696900	0	1290200	0	0	41626	0	0	0
SDPNRETDDTLVLSFVGQTR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	2138800	1660800	2454200	0	0	0	0	0	0
SDPTSYAGYIEDLKK	ATP1B3; ATP1B3; A	P54709; C9JA36;	AT1B3_HUM	Unmodified	1247600	1358900	1096500	16528	0	11580	0	0	0
SDPTYSSTGHK	N/A	N/A	N/A	Unmodified	4360800	6268500	5727700	51711	216750	0	0	0	0
SDPVTLNVLYGPDGPTISPSK	CEACAM6	P40199	CEAM6_HUM	Unmodified	13171000	12752000	14357000	0	0	0	0	0	0
SDPVVSYR	EEF2	P13639	EF2_HUMAN	Unmodified	11006000	36445000	29527000	608410	944750	699120	0	0	16024
SDPVVSYRETVSEESNVLCLSK	EEF2	P13639	EF2_HUMAN	Unmodified	1968700	0	1574600	0	0	0	0	0	0
SDQWKPLNLEEK	EIF4G1; EIF4G1; EIF	Q04637; C9J2Z7;	IF4G1_HUMA	Unmodified	2288300	910990	1571500	0	0	0	0	0	0
SDRSGPTAK	PRRC2A	P48634	PRC2A_HUM	Acetyl (Protein N-t	0	999040	1543700	233320	155650	0	0	0	0
SDSDKSSSQVPPILQETDK	MTDH; MTDH; MTI	Q86UE4; H0YBJ8	LYRIC_HUM	Unmodified	433790	552080	802570	0	82860	47826	0	0	0
SDSEKLNLDSIIGR	PPP1CA; PPP1CA	P62136; E9PMD7	PP1A_HUMA	Acetyl (Protein N-t	307670	1867600	1431500	0	0	0	0	0	0
SDSFENPVLQQHFR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	43212000	43903000	35444000	552070	492580	301450	0	19656	35738
SDSQLRNADVELQQR	AP2A2; AP2A2; AP2	O94973; A0A0G2	AP2A2_HUM	Deamidation (N)	549090	550730	587190	0	0	0	0	0	0
SDSYVELSQYR	NCBP2; NCBP2	P52298; F8WE41	NCBP2_HUM	Unmodified	1692700	1781000	1452700	35128	0	0	0	0	0
SDTAAAAVR	UBA1	P22314	UBA1_HUMA	Unmodified	0	8111900	10593000	944990	0	552370	152850	142890	207870
SDTDVSMPLVEER	C9orf64	Q5T6V5	QSPP_HUMA	Oxidation (M)	2544800	2752000	2577000	0	0	0	0	0	0
SDTFINLR	CAPN2	P17655	CAN2_HUMA	Unmodified	2249500	960540	2423800	0	0	0	0	0	0
SDTFINLREVLNR	CAPN2	P17655	CAN2_HUMA	Unmodified	1696300	1193100	1919600	0	0	0	0	0	0
SDTSFMFQR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4_HUM	Oxidation (M)	1762400	1958100	1299200	69346	72203	80095	0	0	0
SDTSGHFER	ANXA7	P20073	ANXA7_HUM	Unmodified	2015300	2355600	1553200	0	0	0	0	13747	0
SDTSGHFQR	ANXA11	P50995	ANX11_HUM	Unmodified	926460	626770	777530	0	0	0	0	0	0
SDTVPSPR	FN1	P02751	FINC_HUMA	Unmodified	4374100	4756400	3228500	111200	1268400	1272700	0	14448	0
SDVDLYQVR	PSMD9; PSMD9; PSI	O00233; F5H169;	PSMD9_HUM	Unmodified	4399700	5576300	2784400	382880	0	509080	0	0	0
SDVEAIFSK	HNRNPC1; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	14278000	16382000	13928000	190110	127210	152770	0	0	0
SDVEAIFSKYGK	HNRNPC1; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	2297100	1625000	2735300	0	0	0	0	0	0
SDVETIFSK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Unmodified	6934000	6299900	7606000	78050	154860	0	0	0	0
SDVLELTDDNFESR	PDIA3; PDIA3; PDIA	P30101; F8WBS6;	PDIA3_HUM	Unmodified	43575000	59548000	49923000	4508600	3850700	3488400	102240	100120	71023
SDVLELTDDNFESR	PDIA3; PDIA3; PDIA	P30101; F8WBS6;	PDIA3_HUM	Deamidation (N)	2981600	1826100	3205100	295740	475440	409290	0	0	0
SDVLQPGAEVTTDDR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	1087100	861120	919980	0	0	0	0	0	0
SDVLVEYQGEGR	GNS; GNS; GNS; GN	P15586; H7C3P4;	GNS_HUMAN	Unmodified	1448900	1407500	0	133180	183340	96408	0	0	0
SDVMYTDWK	ORM2	P19652	A1AG2_HUM	Oxidation (M)	845270	778060	530940	0	0	0	0	0	0
SDVQIHVPTFTFR	PRKRA; PRKRA; PR	O75569; A0A7Z9	PRKRA_HUM	Unmodified	0	0	2135400	0	11342	0	0	0	0
SDWEVKEEMDFPQLMK	EIF3D; EIF3D	O15371; B0QYA5	EIF3D_HUMA	2 Oxidation (M)	3196000	3777000	2756300	46444	47123	34217	16777	0	0
SDYAGFR	SMCHD1	A6NHR9	SMHD1_HUM	Unmodified	639280	780610	903170	19090	20986	25294	0	0	0
SDYAQLLEDMQNAFR	ATP6V1A	P38606	VATA_HUMA	Oxidation (M)	371500	279920	395660	0	0	0	0	0	0
SDYAQLLEDMQNAFR	ATP6V1A	P38606	VATA_HUMA	Oxidation (M);Deai	279670	227020	289200	0	0	0	0	0	0
SDYDGIGSR	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X_HUM	Unmodified	1337700	2605500	2319200	61993	0	58276	0	0	0
SDYDREALLGVQLHLKDK	RCN2	A8MXP8	A8MXP8_HU	3 Methyl (KR)	21338000	13825000	10924000	0	0	0	0	0	0
SDYMFQR	GSS; GSS; GSS	P48637; A0A2R8	GSHB_HUMA	Oxidation (M)	614810	670820	772840	19007	0	0	0	0	0
SDYSEAAK	PRKDC	P78527	PRKDC_HUM	Unmodified	4568600	2328100	1463500	0	0	218850	0	0	0
SEAALDDLQGLPEPQHAKPGPR	CRACDL	Q6NV74	CRCDL_HUM	Unmodified	1054800	0	1178300	0	0	0	0	0	0
SEADGLRQR	APMAP	Q9HDC9	APMAP_HUM	Acetyl (Protein N-t	9233800	11912000	10224000	974520	0	0	0	0	0
SEADSDKNATILELR	DSP	P15924	DESP_HUMA	Unmodified	1529900	1156200	1684900	69187	66779	71409	0	0	0
SEAEEAITSFNGHKPGSSEPITVK	ELAVL1	Q15717	ELAV1_HUM	Deamidation (N)	27296000	24997000	22044000	364400	411150	285680	0	41565	0
SEAEFRDYPPVLR	SUPT6H	Q7KZ85	SPT6H_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SEAGLAGAPAR	AP3S1	Q92572	AP3S1_HUM	Unmodified	2328300	1300900	1144400	0	0	0	0	0	0
SEALAVDGAGKPGAEEAQDPEGK	CHGA; CHGA	P10645; G5E968	CMGA_HUM	Unmodified	1559700	1425200	403660	0	0	0	0	0	0
SEAQKQSDELALVR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	1159500	1304400	1383400	0	0	0	0	0	0
SEASGPQLLPVR	NADK2; NADK2; N/	Q4G0N4; A0A0C4	NAKD2_HUM	Unmodified	642440	753860	560250	349520	372600	369460	0	11958	0
SEASLHPVLMSEAPWNTR	ACTL6A; ACTL6A	O96019; H7C5S0	ACL6A_HUM	Oxidation (M)	0	7599200	9347500	194840	160490	96179	0	0	0
SEASLHPVLMSEAPWNTR	ACTL6A; ACTL6A	O96019; H7C5S0	ACL6A_HUM	Oxidation (M);Deai	1725600	771060	1016000	0	66490	0	0	0	0
SEAVVEYVFSGSR	SND1; SND1	Q7KZF4; H7C597	SND1_HUMA	Unmodified	1611500	1726600	2484400	49521	0	41949	0	0	0
SEDDESGAGELTR	MCM7	P33993	MCM7_HUM	Unmodified	1096800	1036400	955480	0	0	0	0	0	0
SEDDESGAGELTREELR	MCM7	P33993	MCM7_HUM	Unmodified	985950	766370	767820	0	0	0	0	0	0
SEDDSAVPLAK	WBP11	Q9Y2W2	WBP11_HUM	Unmodified	1580700	1660800	1744700	216910	184160	221620	0	0	0
SEDFSLPAYMDR	COX4I1; COX4I1; CC	P13073; Q86WV2	COX41_HUM	Oxidation (M)	4776000	3532400	3187700	113950	91328	94600	0	0	0
SEDFSLPAYMDRR	COX4I1; COX4I1; CC	P13073; Q86WV2	COX41_HUM	Oxidation (M)	4242100	4332400	4468800	84294	76547	164360	0	0	0
SEDGSGKGAAMVTAVAYR	HK2; HK2	P52789; E9PB90	HXK2_HUMA	Oxidation (M)	980000	709320	551330	0	0	0	0	0	0
SEDLDNSIDKTEAGIK	SMC3	Q9UQE7	SMC3_HUMA	Deamidation (N)	585190	662730	0	0	68565	0	0	0	0
SEDLDNSIDKTEAGIKELQK	SMC3	Q9UQE7	SMC3_HUMA	Deamidation (N)	2626500	1793000	3062400	0	0	0	0	0	0
SEDLLDYGPFR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	5474800	6587800	7122300	105150	86835	80195	0	13928	0
SEDLLDYGPFRDVPAYSQDTFK	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	791320	376620	812280	0	0	0	0	0	0
SEDMPFSPK	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B_HUM	Oxidation (M)	1299800	1183700	627270	0	0	0	0	0	0
SEDPPTTPIR	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B_HUM	Unmodified	493350	516420	490120	0	13793	47085	0	0	0
SEDPRSVINLLR	RPEL1; RPE; RPE	Q2QD12; Q96AT9	RPEL1_HUM	Unmodified	858560	1074500	1185000	64500	43197	64067	14950	0	0
SEDVPYTAALTAVRPSR	ATP6AP1; ATP6AP1	Q15904; A0A7Z9	VAS1_HUMA	Unmodified	1064000	780710	1497200	0	0	0	0	0	0
SEDVWLEAAR	PRPF6	O94906	PRP6_HUMA	Unmodified	1490800	1633900	2338200	46444	79594	46279	0	0	0
SEDYVDIVQGNR	PLOD2; PLOD2	O00469; E7ETU9	PLOD2_HUM	Unmodified	1655700	1124600	1394300	0	0	0	0	0	0
SEDYVDIVQGR	PLOD1	Q02809	PLOD1_HUM	Unmodified	2834900	2702000	2673800	208400	199130	168140	0	0	0
SEDYVDIVQGRR	PLOD1	Q02809	PLOD1_HUM	Unmodified	4349700	5805800	3280300	0	259090	337780	0	0	0
SEEAHAEDSVMDHHFR	SERBP1	Q8NC51	PAIRB_HUM	Oxidation (M)	2030500	2126300	2309000	74985	95357	91853	37273	0	0
SEEKISDSEGFK	SFPQ	P23246	SFPQ_HUMA	Unmodified	2269600	2677900	1999900	0	0	42241	0	0	0
SEELNKDLNPFTPLVGIR	YRDC	Q86U90	YRDC_HUM	Deamidation (N)	584300	518460	0	0	0	0	0	0	0
SEEQLKEEGIEYK	DLD; DLD	P09622; E9PEX6	DLDH_HUM	Unmodified	4612500	2085200	1422300	229230	213930	146000	101700	98324	85368
SEEQLKEEGIEYK	DLD; DLD	P09622; E9PEX6	DLDH_HUM	Methyl (KR)	0	649560	0	0	0	0	0	0	0
SEESVSRLPEEIR	CKAP4	Q07065	CKAP4_HUM	Unmodified	1586900	1731200	1511900	0	0	0	0	0	0
SEETLDEGPPK	FKBP3	Q00688	FKBP3_HUM	Unmodified	2382500	2363100	2701300	0	87044	90717	0	0	0
SEETLDEGPPKVTK	FKBP3	Q00688	FKBP3_HUM	Unmodified	4480700	6873300	6155800	543990	432760	367320	0	0	0
SEEVPAFGVASPPPLTDTPDTTANAEGDLPTTMGGPLPPHLALK	DHX9	Q08211	DHX9_HUMA	Oxidation (M);Deai	4378000	2699700	4061800	0	0	0	0	0	0
SEEWADNHLPLTDAELAR	PLIN3; PLIN3	O60664; K7ER23	PLIN3_HUM	Unmodified	375430	435980	419380	0	0	0	0	0	0
SEFEQNLSEK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	831950	1647800	1107400	0	0	0	0	0	0
SEFGEVFLAK	PTK7; PTK7	Q13308; C9JQR6	PTK7_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SEFGSVDGPLPHPR	MIA3	Q5JRA6	TGO1_HUMA	Unmodified	4031500	1899500	1582400	583100	579160	627040	192140	194050	173860
SEGALELADVSNELPGLK	NSUN2	Q08J23	NSUN2_HUM	Unmodified	1354700	0	1012900	0	0	0	0	0	0
SEGEFKQTSSFLV	F11R; F11R	Q9Y624; A0A087	JAM1_HUMA	Unmodified	3555900	1769700	2885000	951880	793430	691280	0	86062	0
SEGEGKPQGEGKPASQAKPESQPR	TCEAL3	Q969E4	TCAL3_HUM	Unmodified	3575000	2547600	4754900	844750	790010	662240	0	0	0
SEGFDTYR	PCNA	P12004	PCNA_HUMA	Unmodified	9896000	10069000	8853000	47810	67962	78820	0	0	0
SEGFDTYRCDR	PCNA	P12004	PCNA_HUMA	Unmodified	717530	702580	725520	0	0	0	0	0	0
SEGTYCCGPVPVR	TGM2	P21980	TGM2_HUMA	Unmodified	0	0	0	339800	384920	229560	45253	45724	54780
SEGVVAVLLTK	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Unmodified	661090	611760	447910	0	0	0	0	11867	0
SEHGPISFFPESGQPECLK	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	406820	251790	225760	0	0	0	0	0	0

SEHPGLSIGIDTAK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2	HUM	Unmodified	19919000	22483000	20908000	971790	945110	1055500	0	10759	0
SEHPGLSIGIDTAKK	HMGB2; HMGB2	P26583; D6R9A6	HMGB2	HUM	Unmodified	1298800	1669500	1324100	0	46549	183890	0	0	0
SEIATERDLVAWSR	PHIP	Q8WWQ0	PHIP	HUMA	Unmodified	1628400	1275100	1559100	0	0	0	0	0	0
SEIDLLNIR	ANXA6; ANXA6; AN	P08133; E5RFF0;	ANXA6	HUM	Unmodified	717380	463980	459390	25526	21081	20690	0	8029.5	0
SEIDLLNIRR	ANXA6; ANXA6; AN	P08133; E5RFF0;	ANXA6	HUM	Unmodified	1698900	1159600	2205300	64057	67461	64929	19885	0	0
SEIDLVQIK	ANXA7	P20073	ANXA7	HUM	Unmodified	2657900	2230500	2354900	0	0	0	0	0	0
SEIDLVQIKQMFAQMYQK	ANXA7	P20073	ANXA7	HUM	2 Oxidation (M)	1618300	4564200	4921700	0	0	0	0	0	0
SEIEVISEPPEEKVTAR	SRGAP2; SRGAP2; S	O75044; Q5VZB4	SRGP2	HUM	Unmodified	615240	496790	895980	38094	0	42039	0	0	0
SEIEYYAMLAK	RPL30; RPL30	P62888; E5RJ99	RL30	HUMA	Oxidation (M)	909860	1226600	953080	0	37456	33882	0	0	0
SEIIDEKGPVMSK	DSN1; DSN1	Q9H410; Q5JW53	DSN1	HUMA	Oxidation (M)	964660	0	967910	0	0	0	0	0	0
SEIIPMFSNLASDEQDSVR	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA	HUMA	Oxidation (M)	4922300	2578500	4493300	12475	0	0	0	0	0
SEIKGFYDPPR	HNRNPH3	P31942	HNRH3	HUM	Unmodified	6836300	6240100	5433800	0	0	0	0	0	0
SEIKGFYDPPRR	HNRNPH3	P31942	HNRH3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SEIQAEQDR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	233400	3815100	3314900	0	0	937750	0	0	0
SEIQAEQDRK	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	220670	841550	966820	0	0	0	0	0	0
SEIRNDRMGRSR	ZC3H13; ZC3H13	Q5T200; A0A72V	ZC3HD	HUM	2 Methyl (KR);Dea	0	0	0	86939	76507	0	0	0	0
SEISLLPSDIDR	GPD2	P43304	GPDM	HUM	Unmodified	0	1071700	1038200	0	22316	19955	0	0	0
SEIVGVSR	PKP2	Q99959	PKP2	HUM	Unmodified	3863800	2821700	2713500	1444100	1492100	1266900	0	0	0
SEIVGVSRAGTTSR	PKP2	Q99959	PKP2	HUM	Unmodified	185570	0	107210	39666	46715	40261	0	0	0
SEKFAFQAEVNR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	3284500	3273200	2982400	47386	0	0	0	0	0
SEKSVEAAAELSAK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUMA	Acetyl (Protein N-t	14117000	13872000	10832000	621020	623260	651890	0	31976	0
SEKSVEAAAELSAK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUMA	Acetyl (Protein N-t	7377300	6011100	6846800	50661	56754	91057	0	0	0
SEKSVEAAAELSAKDLK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUMA	Acetyl (Protein N-t	1464500	1066600	1820300	26055	0	0	0	0	0
SELDMLDIREIFR	ANXA6	P08133	ANXA6	HUM	Oxidation (M)	756690	564760	550320	0	0	0	0	0	0
SELDQLRQEAEQLK	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Acetyl (Protein N-t	3435800	137250	2874400	0	0	0	0	0	0
SELDQLRQEAEQLKNQIR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Acetyl (Protein N-t	1542600	1512300	413260	0	0	0	0	0	0
SELDQLRQEAEQLKNQIR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Acetyl (Protein N-t	5689100	2499700	4405300	0	0	0	0	0	0
SELDQLRQEAEQLKNQIRDAR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Acetyl (Protein N-t	0	2536300	3429200	0	0	0	0	0	0
SELDQLRQEAEQLKNQIRDAR	GNB1; GNB1; GNB1	P62873; F6UT28;	GBB1	HUMA	Acetyl (Protein N-t	7512200	2090500	7435400	0	0	0	0	0	0
SELEEQQMHLNVGLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	2691600	3202900	2588400	28680	0	0	0	0	0
SELELTLGKLEQVR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	1576100	2143500	1748400	0	0	0	0	0	9466.5
SELEQLRQEAEQLR	GNB2; GNB4; GNB4	P62879; Q9HAV0	GBB2	HUMA	Acetyl (Protein N-t	0	3773300	3858300	0	0	0	0	0	0
SELFGETAR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	694660	857660	830850	127920	173950	209710	0	0	0
SELGKLSLDKVFR	STOML2; STOML2	Q9UJZ1; A0A087	STML2	HUM	Unmodified	1179200	618740	818210	0	0	0	0	0	0
SELGNQSPSTSSR	TOR1AIP1; TOR1AIP	Q5JTV8; A0A0A0	TOIP1	HUMA	Deamidation (N)	404310	415850	563230	0	0	0	0	0	0
SELHIENLNMEADPGQYR	BSG; BSG; BSG; BSG	P35613; A0A087	BASI	HUMA	Oxidation (M)	1174600	1363700	1188400	68969	74022	51561	30283	26342	30271
SELHIENLNMEADPGQYR	BSG; BSG; BSG; BSG	P35613; A0A087	BASI	HUMA	Oxidation (M);Dea	859100	2110900	1011800	0	0	0	0	0	0
SELIVVEEGSEPSELIK	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV	HUMA	Unmodified	5340900	4110300	4592700	22260	16969	9648.4	0	0	0
SELKMKQDAQVVLYR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	515390	0	2016700	0	55423	0	0	0	0
SELLSQLQQHEEESR	MRPS31	Q92665	RT31	HUMA	Unmodified	0	1859000	1171700	0	0	0	0	0	0
SELLVPGSQLILGPHESKIPILLIQQPGK	POP1	Q99575	POP1	HUMA	Unmodified	422980	586780	515140	0	0	0	0	0	0
SELPIAELTGHTR	WDR26; WDR26; WI	Q9H7D7; H0Y9R2	WDR26	HUM	Unmodified	2108000	1723600	1748000	112670	98551	0	24856	0	21953
SELPLDPLPVPTEEGNPLLK	SLC1A5; SLC1A5	Q15758; M0QXM	AAAT	HUM	Unmodified	9520600	9572700	7742600	0	0	0	0	0	0
SELVANNVTLPAGEQR	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Deamidation (N)	4422800	6468400	5865300	37864	75392	83229	0	0	0
SELVANNVTLPAGEQRK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Deamidation (N)	10151000	10834000	10222000	0	43735	118090	0	0	0
SELVANNVTLPAGEQRK	TMPO; TMPO; TMPO	P42167; P42166;	LAP2B	HUM	Unmodified	2264900	1708800	1839600	0	0	0	0	0	0
SELVNWYLK	MCM6	Q14566	MCM6	HUM	Unmodified	964570	1029300	958330	8998.6	0	0	0	0	0
SEMEMAHLYSLCDAAHAQTEVAK	TOMM70	O94826	TOM70	HUM	2 Oxidation (M)	2844500	1436900	1335400	0	0	0	0	0	0
SEMEMAHLYSLCDAAHAQTEVAKK	TOMM70	O94826	TOM70	HUM	2 Oxidation (M)	1624300	1704600	1627500	0	0	0	0	0	0
SEMEVQDAELK	PA2G4	Q9UQ80	PA2G4	HUM	Oxidation (M)	2326500	1840000	1879000	0	0	0	0	0	0
SEMGQLR	MACO1	Q8N5G2	MACOI	HUM	Oxidation (M)	0	0	147530	0	0	0	0	0	0
SEMMDDLATDAR	GFER; GFER; GFER	P55789; H3BRD2	ALR	HUMA	2 Oxidation (M)	480510	554630	577680	0	0	0	0	0	0
SEMTPEELQK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUMA	Oxidation (M)	13023000	8690800	11347000	816350	855740	882440	0	0	0
SEMTPEELQKR	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUMA	Oxidation (M)	2242300	1432000	1533800	108330	170110	163550	0	0	0
SEMTPEELQKREEEEFNTGPLSVLTQSVK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2	HUMA	Oxidation (M)	6099600	4893000	5812800	0	0	0	0	0	0
SENAVVDGPFLVEK	NHLRC2	Q8NBF2	NHLC2	HUM	Unmodified	1048700	854870	996520	24222	0	41162	0	0	0
SENEEFVEVGR	PRKAR1A; PRKAR1	P10644; K7EM13	KAP0	HUMA	Unmodified	4114800	3314600	4132200	269300	243270	240330	0	0	0
SENEEFVEVGR	PRKAR1A; PRKAR1	P10644; K7EM13	KAP0	HUMA	Deamidation (N)	0	892840	892820	98098	0	35801	0	0	0
SENFEELLK	CRABP2; CRABP2	P29373; Q5SVZ4	RABP2	HUM	Unmodified	5005700	5059400	3235300	40171	0	0	0	0	0
SENFEELLK	CRABP2; CRABP2	P29373; Q5SVZ4	RABP2	HUM	Deamidation (N)	1172500	1045300	576080	0	0	0	0	0	0
SENKDIENLRR	KTN1; KTN1; KTN1	Q86UP2; B7Z6P3	KTN1	HUMA	Unmodified	0	0	1509900	264090	231580	230430	0	0	0
SEPAAEEGALVPPEPIPGTAQPVKR	ASPSCR1; ASPSCR1	Q9BZE9; J3KRF7	ASPC1	HUM	Unmodified	1250700	1515800	1927200	151440	131930	168920	0	0	0
SEPHSLSSEALMR	DIABLO; DIABLO; I	Q9NR28; A0A2U	DBLOH	HUM	Oxidation (M)	602210	584920	597120	0	0	0	0	0	0
SEPHSLSSEALMRR	DIABLO; DIABLO; I	Q9NR28; A0A2U	DBLOH	HUM	Oxidation (M)	1351500	1663500	2113400	0	0	0	0	0	0
SEPIPESNDGPVK	PDIA3	P30101	PDIA3	HUM	Unmodified	1833100	2755400	1871200	103520	0	69714	0	0	0
SEPIPESNDGPVK	PDIA3	P30101	PDIA3	HUM	Deamidation (N)	7081000	6717600	8161100	0	115480	119750	0	0	0
SEPKAIDPKLSTTDRVVK	PPP3CA	Q08209	PP2BA	HUM	Acetyl (Protein N-t	0	0	0	0	104660	89949	104960	88020	83233
SEPKPGLPEDLQK	CMSS1; CMSS1	Q9BQ75; C9J384	CMS1	HUMA	Unmodified	1084800	1143200	1262400	0	0	0	0	0	0
SEPLDAVLIEDELEELHR	SYNE2; SYNE2; SY	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	349950	261790	638950	0	0	0	0	0	0
SEPQNLGGAAGR	RAB5B	P61020	RAB5B	HUM	Unmodified	752120	744150	738730	251460	178340	254300	0	0	0
SEPVKEESSELEQPFAQDTSSVGPDR	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	2730400	1883700	2406700	0	59044	0	0	35870	0
SEPVKEESSELEQPFAQDTSSVGPDRK	SAFB2; SAFB	Q14151; Q15424	SAFB2	HUM	Unmodified	1422400	0	1333500	0	0	0	0	0	0
SEQAVAQLEEEKQHLLFMSQIR	KLC2; KLC2; KLC2;	Q9H0B6; C9JHT2	KLC2	HUMA	Oxidation (M)	4447300	3866300	3678200	0	0	0	0	0	0
SEQEFQEQLESAR	MCCC1; MCCC1; M	Q96RQ3; E9PHF7	MCCA	HUM	Unmodified	0	0	0	157830	91367	96933	0	0	0
SEQEFQEQLESARR	MCCC1; MCCC1; M	Q96RQ3; E9PHF7	MCCA	HUM	Unmodified	1816900	1427300	1650100	235000	227470	198560	0	0	25171
SEQFINLR	CAPN1	P07384	CAN1	HUMA	Unmodified	2119400	4320000	1701600	271400	117050	137040	0	0	0
SEQFINLREVSTR	CAPN1	P07384	CAN1	HUMA	Unmodified	2282100	1952200	2531800	207040	194580	177420	0	64546	49652
SEQFINLREVSTR	CAPN1	P07384	CAN1	HUMA	Deamidation (N)	608030	447130	498600	18871	19848	0	0	0	0
SEQLTDRSEISLLPSDIDR	GPD2	P43304	GPDM	HUM	Unmodified	356460	371220	365610	0	0	0	0	0	0
SERPPIFEIR	LRP1	Q07954	LRP1	HUMA	Unmodified	650290	907520	709340	184360	178110	184780	53407	23367	0
SERSSSGLLEWESK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Unmodified	439610	493310	303920	0	0	0	0	0	0
SESAPTLHPYSPLSPK	PPP1R13L; PPP1R13	Q8WUF5; K7EN0	IASPP	HUM	Unmodified	1181400	1509800	1319000	108230	117590	102240	25096	47399	0
SESELGRK	MICOS10; MICOS10	Q5TGZ0; A0A087	MIC10	HUMA	Acetyl (Protein N-t	0	0	1002800	0	0	0	0	0	0
SESEVEEAAAIIAQRPDNPR	DBN1; DBN1; DBN1	Q16643; D6R9Q9	DREB	HUMA	Unmodified	3664300	3494700	4661900	0	0	0	0	0	0
SESFSSEDLIPSRDLATLPR	CCDC88C; CCDC88	Q9P219; A0A0A0	DAPLE	HUM	Unmodified	0	1074700	0	0	0	0	0	0	0
SESHTDLTFSR	NKRF	O15226	NKRF	HUM	Unmodified	1637200	1177600	1035900	36290	33750	0	0	0	0
SESPKEPEQLR	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1	HUMA	Unmodified	13187000	8803100	13121000	1021100	848560	809350	0	0	0
SESPKEPEQLRK	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1	HUMA	Unmodified	27158000	14827000	32295000	1041600	1544200	1092000	0	0	0
SESSTSAFSTPTR	PHIP	Q8WWQ0	PHIP	HUMA	Unmodified	545940	721500	475290	0	0	32433	0	0	0
SESTAAAEHKGK	PCK2	Q16822	PCKGM	HUM	Unmodified	0	113670	196610	0	0	0	0	0	0
SESVEGFLSPSR	CAMSAP2	Q08AD1	CAMP2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SETAPAAPAAAPPAEKAPVK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	4643400	3237400	4139200	86841	137590	116290	0	0	0
SETAPAAPAAAPPAEKAPVK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	3509900	5777100	4904700	166290	0	173030	0	0	0
SETAPAAPAAAPPAEKAPVKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	37814000	34040000	32259000	0	1849800	1888400	638640	779780	636260
SETAPAAPAAAPPAEKAPVKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	12387000	14078000	8134800	715520	768410	571680	212070	140130	148130
SETAPAAPAAAPPAEKAPVKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	97529000	67856000	62570000	5375700	6801000	6154400	1248800	1175500	55707
SETAPAAPAAAPPAEKAPVKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	14284000	11788000	12173000	995660	1211800	1024700	0	0	0
SETAPAAPAAAPPAEKAPVKKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	9823600	11288000	7972700	1943500	1632400	2243100	430460	0	953330
SETAPAAPAAAPPAEKAPVKKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	3384400	4403700	1901200	184430	165900	191160	0	0	120470
SETAPAAPAAAPPAEKAPVKKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	6474300	14471000	10492000	2822200	3059600	2641600	429200	1768300	716900
SETAPAAPAAAPPAEKAPVKKK	H1-2	P16403	H12	HUMA	Acetyl (Protein N-t	5526200	1708700	5502700	639520	610870	614880	61021	118220	195070
SETAPAAPAAPAEK	H1-4	P10412	H14	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SETAPAAPAAPAEKTPVK	H1-4	P10412	H14	HUMA	Unmodified	1885700	1359500	0	0	125130	0	0	0	0
SETAPAAPAAPAEKTPVK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	55563000	62236000	74418000	4330100	4088200	6188400	284110	340950	368710
SETAPAAPAAPAEKTPVK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	25596000	15220000	16418000	1375200	1353900	1386700	99384	114410	82598
SETAPAAPAAPAEKTPVKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	70190000	71049000	61811000	30259000	30101000	24923000	5168000	6518500	4961200
SETAPAAPAAPAEKTPVKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	18745000	20178000	18358000	4743600	4416600	5307200	958210	859250	960390
SETAPAAPAAPAEKTPVKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	2302600	2977800	2777600	499330	506490	649800	175910	0	0
SETAPAAPAAPAEKTPVKK	H1-4	P10412	H14	HUMA	Unmodified	0	0	0	138300	100960	121610	0	0	0
SETAPAAPAAPAEKTPVKKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	23787000	20566000	21304000	19425000	18341000	19550000	1385600	2528200	0
SETAPAAPAAPAEKTPVKKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	8939600	9142200	10696000	4399500	4288800	3805400	0	784510	0
SETAPAAPAAPAEKTPVKKK	H1-4	P10412	H14	HUMA	Acetyl (Protein N-t	1313000	2017900	911770	0	356250	484630	0	0	0
SETAPAETATPAPVEKSPAKK	H1-5	P16401	H15	HUMA	Acetyl (Protein N-t	0	0	0	170920	286260	145480	0	35039	51857
SETAPLAPTIPAPAEKTPVK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	10625000	9101800	9515200	192850	136470	156940	160250	104990	137830
SETAPLAPTIPAPAEKTPVK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	3760700	3720100	4085900	49709	65446	50233	31300	24825	28497
SETAPLAPTIPAPAEKTPVKK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	13431000	13014000	14905000	560130	541830	645580	610880	591730	0
SETAPLAPTIPAPAEKTPVKK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	3810100	3249700	2895400	130280	112840	108300	99164	77617	0
SETAPLAPTIPAPAEKTPVKK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	1118700	569610	1146200	0	0	0	0	0	0
SETAPLAPTIPAPAEKTPVKKK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	3146400	2906000	2863700	321260	305560	310890	292250	244850	249270
SETAPLAPTIPAPAEKTPVKKK	H1-3	P16402	H13	HUMA	Acetyl (Protein N-t	1120400	940040	1158700	0	107310	46832	0	0	0
SETDLLDIR	ANXA11; ANXA11	P50995; H0Y6E1	ANX11	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SETDLLDIRSEYKR	ANXA11; ANXA11	P50995; H0Y6E1	ANX11	HUM	Unmodified	3361700	2656300	2748000	177720	116440	0	0	0	0
SETDTSLIR	CCT6A	P40227	TCPZ	HUM	Unmodified	7592300	7697800	7871700	172470	368370	447390	0	0	0
SETEDSILHQLFIVR	APPL1	Q9UKG1	DP13A	HUM	Unmodified	1983600	1557600	1575200	0	0	0	0	0	0
SETELKDTYAR	PSMD2; PSMD2	Q13200; H7C1H2	PSMD2	HUM	Unmodified	1847300	0	0	0	0	0	0	0	0
SETILSPPPEKR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW	HUM	Unmodified	1430100	1301000	1251500	162030	190930	214880	0	0	24791
SETITEEELVGLMNK	CBR1	P16152	CBR1	HUMA	Oxidation (M)	1368300	1152900	890190	36095	68650	60729	0	0	0
SETITEEELVGLMNKFVEDTKK	CBR1	P16152	CBR1	HUMA	Oxidation (M)	1261300	719730	0	0	0	0	0	0	0
SETSGPQIK	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC	HUM	Unmodified	0	7951600	0	305190	364730	343550	0	0	0
SETSGPQIKELTDEEAER	NUDC; NUDC; NUD	Q9Y266; A0A0A0	NUDC	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SETSGSFEDALLAIVK	ANXA4; ANXA4	P09525; Q6P452	ANXA4	HUM	Unmodified	853060	1158100	1009000	0	0	0	0	0	0
SEVAKDFEPER	LETM1	O95202	LETM1	HUM	Unmodified	968110	1034200	1382700	148730	120260	173550	0	0	0

SEVATLTAAGK	ATP5F1C	P36542	ATPG_HUMA	Unmodified	785020	0	1294500	0	0	0	0	0	0
SEVELAAALSDKR	LMNB2	Q03252	LMNB2_HUM	Unmodified	653260	706600	529530	36103	41447	0	0	0	0
SEVNLAQR	NCBP3	Q53F19	NCBP3_HUM	Unmodified	2565700	1450900	1571100	26377	29506	0	0	0	0
SEVPAIDLAR	GP2	P55259	GP2_HUMAN	Unmodified	717520	653740	673400	0	0	0	0	0	0
SEVPEDLAGFIELFQTPSHTK	MKI67	P46013	KI67_HUMA	Unmodified	288130	236520	239720	0	0	0	0	0	0
SEVPLVDVTK	MYO1B; MYO1B; M	O43795; H7C2Y7	MYO1B_HUM	Unmodified	1993800	3286000	3028800	230990	229320	262380	0	0	0
SEVSSDEDIQFR	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	5178000	4077600	4608600	0	0	0	0	0	0
SEVSSPIQR	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5_HUM	Unmodified	1443000	2291300	1578600	0	158230	0	0	0	0
SEWETLSR	CCAR1; CCAR1; CC	Q8IX12; A0A0C4	CCAR1_HUM	Unmodified	1343300	1048100	771870	49751	0	52938	0	12112	0
SEWGSLLEELVAEGK	PFKL	P17858	PFKAL_HUM	Unmodified	434500	67175	357340	0	0	0	0	0	0
SEYDRGVNTFSPEGR	PSMA5	P28066	PSA5_HUMA	Deamidation (N)	938620	4128800	3449200	50131	34567	35427	0	0	0
SEYDRGVNTFSPEGR	PSMA5	P28066	PSA5_HUMA	Unmodified	3319000	2870200	2664800	78533	90968	111480	0	0	0
SFAANGIQAHPESSTGSDAR	DNTTIP2; DNTTIP2;	Q5QJE6; E9PRB3	TDIF2_HUM	Deamidation (N)	922980	1816700	1992000	0	0	49709	0	0	0
SFAGAVSPQEEEEFR	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Unmodified	1352500	1804500	1507600	0	0	0	0	0	0
SFAGAVSPQEEEEFRR	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Unmodified	17861000	15004000	19131000	0	0	104830	0	0	0
SFATASHR	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	5814600	25715000	1166700	0	0	0	0	0	0
SFAVGMFK	ACADVL; ACADVL;	P49748; K7EJW8;	ACADV_HUM	Oxidation (M)	2910200	1572800	2772200	69906	110210	74914	0	0	0
SFDDPIVQTER	HSPA4L; HSPA4L; H	O95757; E9PDE8;	HS74L_HUM	Unmodified	3762000	3541700	3144700	52772	57836	68077	0	0	0
SFDFEIETK	SSRP1	Q08945	SSRP1_HUM	Unmodified	3504500	2610100	3488100	113690	118200	80402	0	9656.7	0
SFDGFSSAQKNQEQLLTLASILR	HEBP2	Q9Y5Z4	HEBP2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SFDKGPFATFK	WDR82; WDR82	Q6UXN9; C9JBU	WDR82_HUM	Unmodified	976490	929690	1537600	0	0	0	0	0	0
SFDLLVK	CACYBP	Q9HB71	CYBP_HUMA	Unmodified	11886000	10270000	8548700	119580	130870	138980	10622	0	10162
SFDSEFK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1613800	1890900	1676500	59091	68639	92246	0	0	0
SFDSNAFTLLLR	COMMD3; COMMD	Q9UBI1; R4GMW	COMD3_HUM	Unmodified	686680	313250	474190	0	0	0	0	0	0
SFDSNAFTLLLR	COMMD3; COMMD	Q9UBI1; R4GMW	COMD3_HUM	Deamidation (N)	142290	100830	150490	0	0	0	0	0	0
SFDTSLIR	ATP6AP2; ATP6AP2	O75787; A0A1B0	RENR_HUMA	Unmodified	592200	0	0	0	0	0	0	0	0
SFDWGYEER	NELFE; NELFE; NEL	P18615; A0A0A0	NELFE_HUM	Unmodified	1203800	714820	1322400	58914	64717	40425	0	0	0
SFEALLADLTR	DCLK1; DCLK1	O15075; Q5VZY9	DCLK1_HUM	Unmodified	348060	308820	467620	0	0	0	0	0	0
SFEDLTDHPVTR	ADAM17	P78536	ADA17_HUM	Unmodified	1860900	1805300	3404200	133760	0	177200	0	0	0
SFEEAFQK	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	0	2942000	2914900	0	0	0	0	0	0
SFEEEFGTASDKER	CRNKL1; CRNKL1	Q9BZJ0; Q5JY65	CRNL1_HUM	Unmodified	892720	848950	1030500	29792	0	50591	0	0	0
SFEEKVENLK	TPD52; N/A; TPD52	P55327; H0YC42;	TPD52_HUM	Unmodified	4231200	2238200	4816100	0	0	0	0	0	0
SFEEQTMNQPLYNVILNK	N/A	N/A	N/A	Oxidation (M);Deac	1788300	1592400	3391800	0	0	0	0	0	0
SFEERVETTVTSLK	TPD52L1; TPD52L1;	Q16890; E9PPQ1;	TPD53_HUM	Unmodified	1170600	443400	606190	0	0	0	0	0	0
SFELPPYTPPPILSPVR	MIDEAS; MIDEAS; M	Q6PJG2; A0A1C7	MDEAS_HUM	Unmodified	285680	224510	345730	0	0	0	0	0	0
SFENSLGINVPR	UGP2; UGP2; UGP2;	Q16851; E7EUC7;	UGPA_HUM	Deamidation (N)	2962800	3097400	2479500	104150	128360	0	18357	0	0
SFENSLGINVPR	UGP2; UGP2; UGP2;	Q16851; E7EUC7;	UGPA_HUM	Unmodified	1557400	1492000	1564500	0	10943	0	0	0	0
SFEVEEVETPNSTPPR	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_HUM	Deamidation (N)	7549700	4838700	5946300	28817	0	0	0	0	0
SFEVEEVETPNSTPPRR	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_HUM	Deamidation (N)	1751700	2095900	2221900	46291	0	0	0	0	0
SFEWLSQMR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	1905200	1663600	1663400	15273	13746	0	0	0	0
SFFKEALQGVGDMGR	SAA4; SAA2-SAA4	P35542; A0A096	SAA4_HUMA	Oxidation (M)	997960	1171200	957320	0	0	0	0	0	0
SFFNAQFGSLFR	NT5DC3; NT5DC3	Q86UY8; H7C3S8	NT5D3_HUM	Deamidation (N)	256530	166910	0	0	0	0	0	0	0
SFFNAQFGSLFR	NT5DC3; NT5DC3	Q86UY8; H7C3S8	NT5D3_HUM	Unmodified	130600	53932	0	0	0	0	0	0	0
SFGGGMNLSSK	PMPCB; PMPCB	O75439; G3V0E4	MPPB_HUM	Oxidation (M)	1139100	1347900	1087900	0	0	0	0	0	0
SFGGGTGSGFTSLLMER	TUBA1A; TUBA4A;	Q71U36; P68366;	TBA1A_HUM	Oxidation (M)	1900300	596210	730540	33135	31689	15494	0	0	0
SFGMTPVLPAFAGHVPEAVTR	NAGLU; NAGLU	P54802; K7ENX5	ANAG_HUM	Oxidation (M)	2263900	2891700	2602200	0	0	0	0	0	0
SFGNPSLDER	FAM20B	O75063	XYLK_HUM	Unmodified	1070700	870460	1207600	45588	68915	0	0	0	0
SFGQTPSQLLIEPHPPR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUM	Unmodified	4243100	3756800	3207000	160220	178750	117640	0	0	0
SFGSAQEFAWAHDSSEYAIR	COPB2; COPB2; COI	P35606; H0YAC7	COPB2_HUM	Unmodified	1610800	979210	1230300	0	0	0	0	0	0
SFGTEDRPTDRPIPPRDEVFEYIIFR	LSM14A; LSM14A; I	Q8ND56; I3L4Q1;	LSI14A_HUM	Unmodified	2725700	3118700	3618600	0	0	0	0	0	0
SFGTRPLSSGFSPEEAQQQDEEFEK	TNKS1BP1	Q9C0C2	TB182_HUM	Unmodified	3741300	2012400	0	0	0	0	0	0	0
SFHSFYQLLQGGSEQMLR	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D_HUM	Oxidation (M)	5501400	4888400	5197900	0	0	0	0	0	0
SFIKDYPVVSIEDPFDQDDWGAWQK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	438240	0	617290	0	0	0	0	0	0
SFIPSLVEKEK	BOP1; BOP1	Q14137; A0A075	BOP1_HUMA	Unmodified	1550100	960230	1107300	0	8219.5	17299	0	0	0
SFIPVER	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2_HUM	Unmodified	2342000	2810300	2630700	0	78501	66446	0	0	0
SFITTDVNPYVYDSFVR	LARS1; LARS1; LAR	Q9P2J5; A0A6B	SYLC_HUMA	Unmodified	998610	485880	0	0	0	0	0	0	0
SFKSDEVTQEISDETR	MAP4K5	Q9Y4K4	M4K5_HUMA	Unmodified	578420	619660	655000	0	0	0	0	0	0
SFLAFPTLR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN_HUM	Unmodified	3114100	1596000	1935200	50722	21843	59275	0	0	0
SFLDSGYR	VCL	P18206	VINC_HUMA	Unmodified	3622500	3239700	2840000	35505	0	0	0	0	0
SFLDSGIYRILGAVAK	VCL	P18206	VINC_HUMA	Unmodified	655400	675050	797010	0	0	0	0	0	0
SFLDVLSIK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	213570	176750	165140	0	0	0	0	0	0
SFLEFAEDVIQVPR	FMR1; FMR1; FMR1	Q06787; G3V0J0;	FMR1_HUMA	Unmodified	763510	197130	671010	0	0	0	0	0	0
SFLKSFPPPGPAEGLLR	CLNS1A; CLNS1A; C	P54105; E9PQ83;	ICLN_HUMA	Acetyl (Protein N-t	409870	246380	421880	0	0	0	0	0	0
SFLLALPAPLVTPEASAEAR	PIK3R2; PIK3R2; PIK	O00459; E9PFP1;	P85B_HUMA	Unmodified	81634	64968	139020	0	0	0	0	0	0
SFLLKDSETSQR	SHMT2	P34897	GLYM_HUM	Unmodified	365870	496350	476140	0	0	0	0	0	0
SFLPGEGPGRAQDR	SH3PXD2B	A1X283	SPD2B_HUM	Unmodified	566770	544960	542360	86684	76575	68487	44353	0	0
SFLPLIR	BDH1; BDH1; BDH1	Q02338; C9JQ90;	BDH_HUMA	Unmodified	2591400	2338000	3237200	52295	54773	68486	0	0	0
SFLSQGQVLK	ATP5PO; ATP5PO	P48047; H7C068	ATPO_HUMA	Unmodified	763370	793450	824400	0	0	0	0	0	0
SFLSQGQVLKLEAK	ATP5PO; ATP5PO	P48047; H7C068	ATPO_HUMA	Unmodified	627260	418250	615300	0	0	0	0	0	0
SFLVASVLPGPDGNINSPTR	POGZ	Q7Z3K3	POGZ_HUMA	Unmodified	544300	495210	508580	0	0	0	0	0	0
SFLVASVLPGPDGNINSPTR	POGZ	Q7Z3K3	POGZ_HUMA	Deamidation (N)	537960	1052800	0	0	0	0	0	0	0
SFMALSQDIQK	CAPRIN1; CAPRIN1;	Q14444; G3V153;	CAPR1_HUM	Oxidation (M)	3652800	3005800	4072300	0	0	0	0	0	0
SFNIPLLVLGGGGYTVR	HDAC3	O15379	HDAC3_HUM	Unmodified	0	469690	1298200	0	0	0	0	0	0
SFNLPMLMLGGGGYTIR	HDAC1	Q13547	HDAC1_HUM	Oxidation (M)	6961400	4082200	4272900	0	0	0	0	0	0
SFNRGEC	IGKC; IGKC	P01834; A0A5H1	IGKC_HUMA	Unmodified	3114300	0	0	3058600	3366900	2388700	2374200	1397500	1600600
SFPAAIEHTIQWAR	UBA6; UBA6	A0AVT1; H0Y8S9	UBA6_HUMA	Unmodified	1139500	470510	782650	0	0	0	0	0	0
SFPDFPTPGVVFR	APRT; APRT; APRT;	P07741; H3BQF1;	APT_HUMAN	Unmodified	0	1764200	1892000	11762	0	9833.7	11601	0	0
SFPDQFSTGEPPALDEVPEVR	CPD	O75976	CBPD_HUMA	Unmodified	0	0	2071600	0	0	0	0	0	0
SFPGGKEYLMR	AP1M1; AP1M2; AP	Q9BXS5; Q9Y6Q	AP1M1_HUM	Oxidation (M)	490140	509080	369330	41551	36713	19893	0	0	0
SFPIEQSSHPVR	WDR13; WDR13	Q9H1Z4; A0A087	WDR13_HUM	Unmodified	1171200	1337600	796030	0	0	0	0	0	0
SFPLWYEEALKDEEER	MAGEA10	P43363	MAGAA_HUM	Unmodified	1519400	1428600	904890	0	0	0	0	0	0
SFPLWYEEALKDEEERAQDR	MAGEA10	P43363	MAGAA_HUM	Unmodified	4878600	4129300	2537000	0	0	0	0	0	0
SFPNLAFIR	PRELP	P51888	PRELP_HUM	Unmodified	2022000	2307300	2665300	136420	124930	112260	72946	74089	23594
SFPPPGPAEGLLR	CLNS1A; CLNS1A; C	P54105; E9PQ83;	ICLN_HUMA	Unmodified	2067600	1777100	2061300	96446	119220	68406	0	0	15766
SFPVNSDVGVLK	ARCN1; ARCN1	P48444; B0YIW6	COPD_HUMA	Deamidation (N)	781450	2951200	3337700	240100	0	0	0	0	0
SFQGDDSDLLLK	LIMCH1; LIMCH1; L	Q9UPQ0; H0Y8P	LIMC1_HUM	Unmodified	1623900	953830	1132900	0	0	0	0	0	0
SFQGDDSDLLLKTR	LIMCH1; LIMCH1; L	Q9UPQ0; H0Y8P	LIMC1_HUM	Unmodified	0	0	0	201060	214550	101110	44633	27985	0
SFQMQYNLR	DARS2; DARS2; DAI	Q6PI48; A0A3B3	SYDM_HUM	Oxidation (M)	0	778000	1592600	0	0	0	0	0	0
SFQPDTGR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC_HUMAN	Unmodified	1102600	1249200	1570600	104360	0	100470	0	0	0
SFQPDTGRIEVFR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC_HUMAN	Unmodified	12270000	9922200	7168600	467890	493690	482690	0	68616	0
SFQQELDARHDKYER	TSNAX; TSNAX; TSI	O99598; Q5VVQ1	TSNAX_HUM	Unmodified	514150	627790	313300	0	0	0	0	0	0
SFQQSSLSR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	20720000	23061000	20917000	873410	798720	991520	0	0	0
SFQQSSLSRDSQGHGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	3361300	2047400	2505800	0	0	0	0	0	0
SFSASQSTDREGASPVTEVR	ZBTB21	Q9ULJ3	ZBT21_HUM	Unmodified	734750	760220	592040	0	0	0	0	0	0
SFSERFPEDGPELEEILTQLATADAR	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	198860	0	0	0	0	0	0	0	0
SFSKEELMSSDLEETAGSTSIPK	NOP56	O00567	NOP56_HUM	Oxidation (M)	1074100	0	1398600	0	0	0	0	0	0
SFSKEVEER	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Unmodified	1063100	1504800	1400400	0	0	0	0	0	31800
SFSLDEPPLFIPDNIATIRR	PHF3; PHF3; PHF3; I	Q92576; E7EVH3	PHF3_HUMA	Unmodified	505490	477260	375960	0	0	0	0	0	0
SFSLGDIYFK	IGF2R; IGF2R	P11717; S4R328	MPRI_HUMA	Unmodified	2054200	0	1783100	0	0	0	0	0	0
SFSNYRPFEPQALGLSPSWR	SEPHS2	Q99611	SPS2_HUMA	Deamidation (N)	332240	569830	398890	0	0	0	0	0	0
SFSQPEAGGSHHK	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL_HUM	Unmodified	948160	764660	785940	0	102120	52329	0	0	0
SFSQPEAGGSHHKVSVSPVVHVR	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL_HUM	Unmodified	568750	591690	0	0	0	0	0	0	0
SFTPDHVVYAR	CAVIN1	Q6NZI2	CAVN1_HUM	Unmodified	0	0	0	0	0	256510	0	74809	83838
SFTPVFLGSALK	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM_HUM	Unmodified	4699900	5111800	4576200	28253	30069	28594	0	0	0
SFTVDIR	HDLBP; HDLBP; HD	O00341; A0A024	VIGLN_HUM	Unmodified	1181500	2922200	2451800	318430	170140	155180	8230.9	0	0
SFVPFPR	DERPC	P0CG12	DERPC_HUM	Unmodified	2626900	2865000	3098200	202410	237480	223630	13416	21266	20247
SFVQGLGVASDVVR	GPC1; GPC1; GPC1	P35052; H7C024;	GPC1_HUMA	Unmodified	951510	786760	1259600	0	0	0	0	0	0
SFYMQR	NARS1; BTBD16	O43776; Q32M84	SYNC_HUMA	Oxidation (M)	2468500	3318900	3266400	394920	280950	426560	0	0	0
SFYPEEVSSMVLTK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Oxidation (M)	67688000	73073000	61254000	635140	357060	477630	0	28013	33984
SFYPMLR	SYNE2; SYNE2	Q8WXH0; A0A0C	SYNE2_HUM	Oxidation (M)	1943700	1510000	2613200	329330	204930	243300	0	0	66354
SFYQFQHYR	MTREX	P42285	MTREX_HUM	Unmodified	2003000	2771400	1140200	0	0	0	0	0	0
SFYTAYLQR	QSOX1	O00391	QSOX1_HUM	Unmodified	405370	0	597380	77893	78930	90913	0	0	0
SGAEVEAGDAAER	RAVER1; RAVER1;	Q8IY67; E9PAU2;	RAVR1_HUM	Unmodified	8192500	4039800	6067100	106400	0	142400	0	0	19870
SGAFGHLFRPDNFIFGQSGAGNNWAK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Deamidation (N)	2120000	3131800	2767800	0	0	0	0	0	0
SGAFGHLFRPDNFIFGQSGAGNNWAK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	2 Deamidation (N)	834460	0	0	0	0	0	0	0	0
SGALDVLQMKEEDVLK	RPSA; RPSA; RPSA;	P08865; A0A0C4	RSSA_HUMA	Acetyl (Protein N-t	33330000	32716000	30774000	0	0	0	9419.8	0	0
SGALDVLQMKEEDVLK	RPSA; RPSA; RPSA;	P08865; A0A0C4	RSSA_HUMA	Acetyl (Protein N-t	0	0	1067500	0	0	0	0	0	0
SGAPAAESKEIVR	PHPT1	Q9NRX4	PHP14_HUM	Unmodified	44604000	51457000	8437400	13107000	12935000	11731000	171140	157750	175380
SGAPAAESKEIVR	PHPT1	Q9NRX4	PHP14_HUM	Methyl (KR)	2657500	3288800	3037700	277760	297280	261230	0	16029	11716
SGAPAAESKEIVRGYK	PHPT1	Q9NRX4	PHP14_HUM	Unmodified	0	0	0	1008400	831790	1142400	25427	0	0
SGAQASSTPLSPTR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	23290000	24943000	26413000	4836900	4844900	6626400	0	78199	1599000
SGARGEGPEAGAGGAGGR	ESYT2; ESYT2	H7BXI1; A0A499	HTBXI1_HUM	Acetyl (Protein N-t	1347800	1093800	1013700	1456600	843630	924860	61720	0	56546
SGASEANLIVAK	MKI67	P46013	KI67_HUMA	Unmodified	1412400	1417500	1483700	0	0	0	0	0	0
SGASGASAAPAASAAAALAPSATR	CENPV	Q7Z7K6	CENPV_HUM	Unmodified	16099000	15668000	16359000	358250	309730	379650	81119	95033	103490
SGASGPENFQVGSMPPAQQQITSGQMHR	TLN1	Q9Y490	TLN1_HUMA	2 Oxidation (M)	11204000	9998400	9725400	990190	1666200	867830	1362800	1771800	472980
SGASGPENFQVGSMPPAQQQITSGQMHR	TLN1	Q9Y490	TLN1_HUMA	2 Oxidation (M);De	2658800	4374500	5333900	264160	307590	233970	221990	241240	0
SGASLKLTLLNPK	ACLY	P53396	ACLY_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SGASVVAIR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3_HUM	Unmodified	2236400	1061900	1257100	0	0	0	0	0	0
SGAVEETFR	HSDL2	Q6YN16	HSDL2_HUM	Unmodified	13741000	9909900	14530000	528530	482840	530270	0	0	0
SGAVQGAGSLGPGSPVR	SLAIN2	Q9P270	SLAI2_HUM	Unmodified	0	2491500	395100	229560	165690	199060	76573	0	62475
SGAYLIPLLER	DDX6; DDX6	P26196; Q8IV96	DDX6_HUM	Unmodified	3715600	2673800	2657500	0	0	0	0	0	0
SGDAAIVDMVPGKPMCVESFSDYPPLGR	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM	2 Oxidation (M)	24826000	17912000	24710000	72205	0	0	0	0	0

SGDETPGSEVPGDK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	1036100	1633900	1449700	0	0	0	0	0	0
SGDETPGSEVPGDKAAEEQGDDQDSEK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ2	HNRL2	HUM	Unmodified	3733300	2990000	0	0	0	0	0	0	0
SGDITYGQFAQLYR	PLCG1	P19174	PLCG1	HUM	Unmodified	1706500	1562500	1947000	0	0	0	0	0	0
SGDLGDMEPLKGTTPLMQKI	CTNND1; CTNND1	A0A669KB62; A0	A0A669KB62	2	Oxidation (M)	12934000	13467000	12158000	868770	872770	428740	129370	110070	0
SGDLPYDGRLLEEAVR	LSR; LSR	Q86X29; S4R3V8	LSR	HUMAN	Unmodified	3451500	2628700	924660	12491	0	0	0	0	0
SGDLSYESSVR	FRAS1	Q86XX4	FRAS1	HUM	Unmodified	671910	746230	696150	0	116780	112780	0	0	0
SGDNPVYIWGHSLGTGVATNLVR	ABHD12; ABHD12;	Q8N2K0; A0A5F9	ABD12	HUM	Unmodified	2068700	2236900	2445800	0	0	0	0	0	0
SGDSEVYQLGDVSQK	SSBP1; SSBP1; SSBP	Q04837; C9K0U8	SSBP	HUMA	Unmodified	9011500	6580000	8390500	384120	393300	379680	0	0	0
SGEATDGARPQALPEPMQESK	CHGA	P10645	CMGA	HUM	Oxidation (M)	714050	597810	610030	0	0	181310	0	0	0
SGEDEQQEQTIAEDLVVTKYK	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4	HUM	Acetyl (Protein N-t	1780700	1425600	0	41902	34139	0	0	0	0
SGEDEQQEQTIAEDLVVTKYK	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4	HUM	Acetyl (Protein N-t	1306900	1494800	681510	0	0	0	0	0	0
SGEEDEEILFKER	RANBP2	P49792	RBP2	HUMA	Unmodified	1099600	1132000	1222400	133550	0	78114	0	0	0
SGEEGMPDLAHVMR	PPM1B; N/A; PPM1F	O75688; A0A3B3	PPM1B	HUM	2 Oxidation (M)	470100	560320	876350	0	35068	0	0	0	0
SGEENPASKPTPVQDVQGDGR	PAFAH1B3; PAFAH	Q15102; M0R323	PA1B3	HUM	Acetyl (Protein N-t	5426600	4476800	4156000	0	74527	0	0	0	0
SGEENPASKPTPVQDVQGDGRWMSLHHR	PAFAH1B3; PAFAH	Q15102; M0R323	PA1B3	HUM	Acetyl (Protein N-t	12665000	21130000	15510000	0	0	124090	0	0	0
SGEGEVSGLMR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Oxidation (M)	22005000	24771000	21149000	3967600	4276800	3451800	0	20579	0
SGEGEVSGLMRK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Oxidation (M)	1966400	2131400	2389600	357120	390520	441130	11386	0	0
SGEGEVSGLMRKVPR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Oxidation (M)	0	180420	0	960900	745010	795720	0	126960	0
SGEGSQHPFGAMNIVR	HIKESHI; HIKESHI;	Q53FT3; E9PPG8	HIKES	HUM	Oxidation (M)	741380	1019200	840170	0	0	0	0	0	0
SGEHDFGAAFDGDGDRNMILGK	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Oxidation (M);Deai	667120	863140	970290	29656	0	0	0	0	0
SGEILYR	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Unmodified	1805900	1747700	1516500	0	0	0	0	0	0
SGEISLPIKEEPSPISK	MRTFB; MRTFB	Q9ULH7; I3L2A0	MRTFB	HUM	Unmodified	4062600	4693800	4512100	0	193700	213650	0	0	19505
SGELAQEYDKR	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A	HUM	Unmodified	7344100	7567600	8688400	291140	166410	283130	0	0	0
SGELEQEEERLSKEWEDSKR	CHGA; CHGA	P10645; G5E968	CMGA	HUM	Unmodified	2520000	2763400	2136700	0	0	0	0	0	0
SGELPPNINIKEPR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0	SFXN1	HUM	Acetyl (Protein N-t	2503000	0	0	142070	187310	148350	0	36753	0
SGELPPNINIKEPR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0	SFXN1	HUM	Acetyl (Protein N-t	0	0	0	0	0	0	123160	44869	0
SGELSNRFQGGK	AIF1L; AIF1L	Q9BQI0; Q5JUP3	AIF1L	HUMA	Acetyl (Protein N-t	891090	798930	770160	0	36993	0	0	0	0
SGELSNRFQGGK	AIF1L; AIF1L	Q9BQI0; Q5JUP3	AIF1L	HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
SGENFKLLYDLADQLHAAVGASR	ETFA; ETFA; ETFA;	P13804; H0YL12	ETFA	HUMA	Unmodified	236970	0	160470	0	0	0	0	0	0
SGEPQTFTLK	ITGB1; ITGB1; ITGB	P05556; E7EQW5	ITB1	HUMA	Unmodified	8062700	9042700	7914200	469250	412200	441960	0	0	0
SGERPVTAGEEDEQVPDSIDAR	CIAO2B; CIAO2B	Q9Y3D0; H3BNV	CIA2B	HUM	Unmodified	812900	695190	622800	0	0	0	0	0	0
SGEVLVNVK	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z4	EIF3I	HUMA	Unmodified	1572600	1748700	2033600	99875	85051	80039	0	0	0
SGEVLVNVKEHSR	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z4	EIF3I	HUMA	Unmodified	3418800	3043800	3837800	2423500	1050700	1277200	0	0	0
SGEVPPQKLQALQR	LIN7C; LIN7C	Q9NUP9; G3V1D	LIN7C	HUM	Unmodified	489100	444190	512400	0	0	0	0	0	0
SGEVTLTK	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2	HUM	Unmodified	0	410040	502950	0	36364	0	0	0	0
SGEWTEDEVLRR	CAPS	Q13938	CAYP1	HUM	Unmodified	814320	978470	727830	187870	349940	182710	0	0	0
SGFARPGDVEFEDFSQPMNR	TRIP10; TRIP10; TRI	Q15642; W4VSQ5	CIP4	HUMA	Oxidation (M)	1381500	766510	0	0	0	0	0	0	0
SGFEGMFIR	RANBP2	P49792	RBP2	HUMA	Oxidation (M)	639570	905100	746500	131890	128800	0	24204	0	18452
SGFEPPGDFPFEDYSQHIYR	FNBP1L; FNBP1L	Q5T0N5; A0A075	FBP1L	HUM	Unmodified	2097900	1995900	1702400	0	0	0	0	0	0
SGFGEISSPVIR	NUP107; NUP107	P57740; G3V1T4	NU107	HUM	Unmodified	0	0	0	456760	344590	0	0	0	0
SGFLGTNPAPR	DERPC	P0CG12	DERPC	HUM	Unmodified	0	951690	1279200	573290	496900	652380	0	0	0
SGFLVWR	UHRF1; TNFRSF12A	Q96T88; Q9NP84	UHRF1	HUM	Unmodified	1267800	1027400	1312800	0	0	0	0	0	0
SGFMASFLDFLK	PRR12; PRR12	Q9ULL5; A0A3Q	PRR12	HUM	Oxidation (M)	320190	164050	236430	0	0	0	0	0	0
SGFNLEELEKNNAQSIR	GNL3	Q9BVP2	GNL3	HUMA	Deamidation (N)	1460200	974290	1671200	13820	11742	13435	0	0	0
SGFNSKSGQR	HNRNPC; HNRNPC;	P07910; G3V2Q1	HNRPC	HUM	Deamidation (N)	0	430030	0	369970	365270	0	0	0	0
SGFPLLKEFVQR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	1067300	1051000	1060500	0	0	0	11927	0	0
SGFSLDNGELR	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C	HUM	Deamidation (N)	6155100	4868200	5570800	196170	184120	166510	0	0	0
SGGASHSELIHNLR	PCMT1; PCMT1; PC	P22061; F8WAV5	PIMT	HUMA	Unmodified	1610600	0	1110900	0	0	0	0	0	0
SGGATIEELTEK	SON; SON; SON; SOI	P18583; H7C2G8	SON	HUMAN	Unmodified	648840	695190	0	0	0	61935	0	0	0
SGGGAGSNGSVLDPAER	PLEC; PLEC	H0YDN1; E9PMV	H0YDN1	HUM	Deamidation (N)	0	1209500	1468200	148530	227300	200790	0	0	0
SGGGAGSNGSVLDPAERAVIR	PLEC; PLEC	H0YDN1; E9PMV	H0YDN1	HUM	Deamidation (N)	0	0	675840	476160	700310	410890	74755	74999	70581
SGGGFGPDPGSGTTVPAR	SENP3	Q9H4L4	SENP3	HUM	Unmodified	1152800	1396900	0	0	0	111190	0	0	0
SGGGGDIHQGFQSLLTEVNK	SERPINB6; SERPINE	P35237; A0A087	SPB6	HUMA	Unmodified	924410	0	881470	0	0	0	0	0	17990
SGGGGGGGGSSWGGR	HNRNPA0	Q13151	ROA0	HUMA	Unmodified	6731300	7826600	8485200	77356	0	463350	101150	88570	84765
SGGGGLMEEMNAMLAR	VASP; VASP	P50552; K7EM16	VASP	HUMA	3 Oxidation (M)	824250	769900	993240	188010	156300	168150	0	0	0
SGGGGYGNSR	DDX3Y	O15523	DDX3Y	HUM	Unmodified	0	0	0	224050	310140	850800	0	64707	0
SGGGTGEEPGSQGLNGEAGPEDSTR	PPM1G	O15355	PPM1G	HUM	Deamidation (N)	2244100	2018000	2559900	50130	0	82351	0	0	0
SGGGTGEEPGSQGLNGEAGPEDSTRETPSQENGPTAK	PPM1G	O15355	PPM1G	HUM	2 Deamidation (N)	3603100	4535500	976900	240370	495990	0	0	0	0
SGGGYGGDR	TAF15; TAF15; TAF	Q92804; A0A075	RBP56	HUM	Unmodified	28051000	26131000	26969000	1851900	1722900	839610	40199	0	0
SGGGYGGDRGGGYGGDRGGYGGK	TAF15; TAF15; TAF	Q92804; A0A075	RBP56	HUM	2 Methyl (KR)	2559700	2823200	3384100	241730	0	269990	0	0	0
SGGGYGGDRGGGYGGDRGGYGGK	TAF15; TAF15; TAF	Q92804; A0A075	RBP56	HUM	3 Methyl (KR)	2231400	2445900	2468000	0	77993	118150	0	30643	0
SGGGYIVVDPILR	AGL	P35573	GDE	HUMA	Unmodified	735710	681170	0	60684	54093	55694	0	0	0
SGGIPALVR	JUP; JUP; JUP; JUP;	P14923; C9JTX4	PLAK	HUM	Unmodified	0	938040	0	0	14010	0	0	0	0
SGGIVISPFRLEELTNR	CCDC6	Q16204	CCDC6	HUM	Unmodified	1766800	1557700	1950800	0	0	0	0	0	0
SGGLGGSHALLLLR	LRPPRC; LRPPRC; I	P42704; B8ZZ38	LPPRC	HUM	Unmodified	10577000	11717000	11336000	183120	156720	144780	31831	14666	0
SGGLPLVLSMLTR	USP9X	Q93008	USP9X	HUM	Oxidation (M)	770340	557200	507140	0	0	0	0	0	0
SGGMERPFVLAR	GANAB; GANAB; G	Q14697; F5H6X6	GANAB	HUM	Oxidation (M);2 De	43402000	59151000	50670000	1944400	2430800	2093400	233700	0	238420
SGGMSNELNNIISR	ACLY	P53396	ACLY	HUM	Oxidation (M);2 De	3009100	2608500	1560800	436260	389120	436750	0	0	0
SGGMSNELNNIISR	ACLY	P53396	ACLY	HUM	Oxidation (M)	1132900	0	2100200	312740	363560	386220	0	52943	48356
SGGMSNELNNIISR	ACLY	P53396	ACLY	HUM	Oxidation (M);Deai	747420	2854200	2907400	679640	642790	795050	0	67533	40110
SGGNEVSIEER	WDR43	Q15061	WDR43	HUM	Deamidation (N)	1182600	2006800	1248500	0	0	0	0	0	0
SGGNSYGSGGASYNPGSHGGYGGGSGGGSSYQGK	ILF3; ILF3	Q12906; K7ELV3	ILF3	HUMAN	Deamidation (N)	2228200	2906700	2506700	361610	104050	142340	0	0	0
SGGQVRDEYRQDYDAGR	NCBP2; NCBP2; NCI	P52298; C9JQX9	NCBP2	HUM	Unmodified	1349700	1707500	1710300	0	0	0	0	0	0
SGGQVRDEYRQDYDAGRGGYGK	NCBP2; NCBP2; NCI	P52298; C9JQX9	NCBP2	HUM	Unmodified	0	1685900	1946800	240950	188410	184950	34167	33279	0
SGGSDRTIAYENK	LGALS3BP	Q08380	LG3BP	HUM	Unmodified	1447100	1286300	0	0	0	0	0	0	0
SGGSPLSPVIYDSDMDDVPER	SEZ6L2; SEZ6L2; SE	Q6UXD5; H3BN2	SE6L2	HUM	Oxidation (M)	1360200	1093300	1074600	0	23727	21484	0	0	0
SGGTEGLLAEKLEALITQTR	SRP68	Q9UHB9	SRP68	HUM	Unmodified	5475800	2226300	4829400	0	0	0	0	0	0
SGGTEGLLAEKLEALITQTR	SRP68	Q9UHB9	SRP68	HUM	Methyl (KR)	332380	0	404580	0	0	0	0	0	0
SGGVGGSNTNWK	RPA1; RPA1	P27694; I3L4R8	RFA1	HUMA	Deamidation (N)	951080	1049400	1210700	0	0	0	0	0	0
SGGVGGSNTNWK	RPA1; RPA1	P27694; I3L4R8	RFA1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SGGYGGSRDYYSSR	CIRBP; CIRBP; CIRE	Q14011; K7EPM4	CIRBP	HUM	Unmodified	13004000	9627900	12921000	6998200	363860	7498700	66799	52736	247340
SGHEQVVEMLLDR	ANK3; ANK3	Q12955; A0A087	ANK3	HUMA	Oxidation (M)	812860	0	0	0	0	0	9729.1	0	0
SGHIQTLLR	TMED5	Q9Y3A6	TMED5	HUM	Unmodified	0	527900	1375200	0	0	0	0	0	0
SGILPILVK	KPNA3	O00505	IMA4	HUMA	Unmodified	948310	771350	824390	0	0	0	0	0	0
SGINCPIQK	NPC2; NPC2; NPC2;	P61916; J3KMY5	NPC2	HUMA	Unmodified	0	0	0	145690	144570	166210	0	0	0
SGIPIVTSPYQIHFTK	C3	P01024	CO3	HUMA	Unmodified	16969000	13242000	11971000	77654	197300	59498	146530	0	0
SGIPIVTSPYQIHFTKTPK	C3	P01024	CO3	HUMA	Unmodified	1109200	779340	0	73757	0	0	32498	0	0
SGIQPLCPER	TMPO	P42166	LAP2A	HUM	Unmodified	4866500	4310000	0	69813	0	0	0	0	0
SGIYETR	AP2M1; AP2M1; AP	Q96CW1; E9PFW	AP2M1	HUM	Unmodified	2284600	1688300	2403200	93411	82113	75190	0	0	0
SGKAPILIATDVASR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	10332000	6862400	10110000	666470	656100	791920	43665	48467	42274
SGKFTQQDIDEAK	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP	HUMA	Unmodified	301370	313730	402790	0	0	0	0	0	0
SGKPAELLKMFGIDRDAIAQAVR	TKT; TKT	P29401; A0A0B4	TKT	HUMAN	Oxidation (M)	0	2002000	2655900	0	0	0	0	0	0
SGKSPILVATAVAAR	DDX3X; DDX3Y; DE	O00571; O15523	DDX3X	HUM	Unmodified	2265700	644180	2079900	0	0	0	0	0	0
SGKTELAEPIAIRPTSETVMYPAYAK	EPRS1	P07814	SYEP	HUMA	Oxidation (M)	8190500	6181700	5835100	0	0	115250	0	0	0
SGKYDLDFK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	13569000	12959000	13072000	312190	284940	257490	0	0	0
SGKYDLDFK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
SGKYDLDFKSPDDPSR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	193430000	149750000	175800000	1201400	961360	1798600	0	93520	82748
SGKYDLDFKSPDDPSR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Methyl (KR)	7004100	5513100	4547000	0	0	0	0	0	0
SGKYDLDFKSPDDPSRYISPDQLADLYK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	68093000	60412000	64474000	0	0	0	0	0	0
SGKYDLDFKSPDDPSRYISPDQLADLYK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Methyl (KR)	2622900	0	2094800	0	0	0	0	0	0
SGLELEPEEPPGWR	ARHGEF1; ARHGEF	Q92888; M0QYS2	ARHG1	HUM	Unmodified	0	558130	688560	21660	0	28976	0	0	0
SGLGELILPENEPGSSIMPGK	FH	P07954	FUMH	HUM	Oxidation (M)	9174400	9085800	6705100	0	0	0	0	0	30209
SGLGELILPENEPGSSIMPGK	FH	P07954	FUMH	HUM	Oxidation (M);Deai	597320	0	616610	0	0	0	0	0	0
SGLGPADLALLGLSAER	EEF1D; EEF1D; EEF	E9PJV8; E9PRL0	E9PJV8	HUM	Unmodified	1040500	1105900	592330	0	0	0	0	0	0
SGLIFYR	SHMT2; SHMT2; SH	P34897; H0YIZ0	GLYM	HUM	Unmodified	4910000	3870400	4221300	201740	210850	222710	35489	27035	0
SGLKKQELLEALTK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	2594500	2559500	3511400	29117	0	0	0	0	0
SGLLEVLVR	SNTB1; SNTB1	Q13884; A0A3B3	SNTB1	HUM	Unmodified	1147200	925920	1045600	14972	12003	0	0	0	0
SGLLVLTTPLASLAPR	COASY; COASY; CC	Q13057; K7EP09	COASY	HUM	Unmodified	68245	53317	77157	0	0	0	0	0	0
SGLSSPIYIDLR	UMPS; UMPS; UMP	P11172; F2Z3P2	UMPS	HUM	Unmodified	1401100	995310	933890	0	0	0	0	0	8933.5
SGLTVPTSPK	PDCD4; PDCD4	Q53EL6; Q5VZS7	PDCD4	HUM	Unmodified	2657000	3143200	3024800	107050	0	121370	0	0	0
SGLVPQQIK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Unmodified	3341200	6247500	8486800	650990	2073800	1514200	0	0	0
SGMFWLR	UQCRC1	P31930	QCR1	HUMA	Oxidation (M)	4260700	2941600	4320600	98668	82335	69226	0	10509	0
SGMFWLRF	UQCRC1	P31930	QCR1	HUMA	Oxidation (M)	5863200	2760700	4440800	0	85920	64453	0	91904	83165
SGMREALSQEAGGPEVQQLR	KLHL42; KLHL42	Q9P2K6; F5H523	KLH42	HUM	Oxidation (M)	1189600	1055200	531950	0	0	0	0	0	0
SGMRFNEVAAQYSEDKAR	PIN4; PIN4; PIN4; PI	Q9Y237; H0YBP6	PIN4	HUMA	Oxidation (M)	1356400	869540	1008200	0	38687	0	0	0	0
SGMSHEEDQLIPNLYR	PRPF8	Q6P2Q9	PRP8	HUMA	Oxidation (M)	6273800	7156500	6837900	541120	624130	559380	78249	62060	61656
SGMVQTEAQYR	PTPN11; PTPN11	Q06124; A0A0U1	PTN11	HUM	Oxidation (M)	970240	968010	1009400	0	32014	0	0	0	0
SGNCYLDIRPR	FBN1	P35555	FBN1	HUMA	Unmodified	962940	970750	0	269270	250770	254890	890800	680820	787370
SGNCYLDIRPR	FBN1	P35555	FBN1	HUMA	Deamidation (N)	293240	0	0	244450	134240	110520	555570	520690	457430
SGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7Z	ROA2	HUMA	Oxidation (M);Deai	8848500	7633300	7083800	1217000	1001900	1268300	0	88424	284680
SGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7Z	ROA2	HUMA	Oxidation (M);2 De	34548000	29369000	33024000	3301100	2629900	2617500	190380	183140	332700
SGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7Z	ROA2	HUMA	Oxidation (M);3 De	14330000	12657000	11723000	452350	0	183180	0	0	0
SGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGR	HNRNPA2B1; HNRN	P22626; A0A7Z	ROA2	HUMA	Methyl (KR);3 Dea	0	0	0	0	217330	0	0	0	73951
SGNIVAGIANESK	GMPS	P49915	GUAA	HUM	Deamidation (N)	966620	746590	0	0	34605	0	0	0	0
SGNIVAGIANESK	GMPS	P49915	GUAA	HUM	Unmodified	2225600	1767300	1758200	70561	88393	69173	0	0	0
SGNVAELALK	NASP; NASP; NASP;	P49321; E9PRH9	NASP	HUMA	Unmodified	34670000	25516000	28537000	502330	496330	681410	0	0	0
SGPEFITR	APCDD1; APCDD1	Q8J025; J3KTQ6	APCD1	HUM	Unmodified	0	0	0	619980	388350	656430	0	0	0
SGPEPLQEGPGPK	CORO7; CORO7-PAI	P57737; A0A0A6	CORO7	HUM	Unmodified	2423700	2526600	2713400	211170	188640	187540	0	0	0
SGPFAPVLSATSR	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL	HUM	Unmodified	13755000	10717000	12736000	685760	703350	417260	34895	34858	32849
SGPFGQIFRPDNFVFGQSGAGNNWAK	TUBB2A; TUBB4A;	Q13885; P04350	TBB2A	HUM	Unmodified	17825000	9786500	14641000	0	0	0	0	0	0
SGPFGQIFRPDNFVFGQSGAGNNWAK	TUBB2A; TUBB4A;	Q13885; P04350	TBB2A	HUMA	Deamidation (N)	109040000	39215000	104180000	24424	0	24523	0	0	0
SGPFGQIFRPDNFVFGQSGAGNNWAK	TUBB2A; TUBB4A;	Q13885; P04350	TBB2A	HUM	2 Deamidation (N)	11521000	16385000	29691000	0	0	0	0	0	0

SGPFGQIFRPDNFVFGQSGAGNNWAK	TUBB2A; TUBB4A;	Q13885; P04350;	TBB2A_HUM	3 Deamidation (N)	1137800	130520	344370	0	0	0	0	0	0
SGPFGQLFR	TUBB6; TUBB6; TU	Q9BUF5; K7EK4	TBB6_HUMA	Unmodified	1125700	1001900	816710	70105	57644	64060	0	15742	16136
SGPLCLPESR	PNKP; PNKP; PNKP;	Q96T60; A0A0D9	PNKP_HUMA	Unmodified	1139400	1022100	691530	212380	205940	272580	0	0	0
SGPLFNFDVHDDVR	FAM50A; FAM50A	Q14320; B0S8I6	FA50A_HUM	Unmodified	2606700	2340700	3053800	0	0	0	12273	0	0
SGPNIYELR	NIPSNAP2; NIPSNAI	O75323; C9K068;	NIPS2_HUMA	Unmodified	10014000	10110000	9843100	1721200	1388400	1443200	413230	307240	356720
SGPPPSSGMSSR	RBM12; RBM12; RB	Q9NTZ6; Q5JX62	RBM12_HUM	Oxidation (M)	699790	0	0	67117	83336	143110	0	0	0
SGPSGPDNVQSLPLWPLPK	TGIF2LX	Q8IUE1	TF2LX_HUM	Unmodified	1344200	1501300	1334700	0	0	0	0	0	0
SGPTWWGPQR	NAXE; NAXE; NAXI	Q8NCW5; A0A7P	NNRE_HUM	Unmodified	597830	0	368060	0	0	0	0	0	0
SGQAKETIPLQETSLYTQDR	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1_HUMA	Unmodified	16549000	19969000	16746000	962640	1230200	1039500	126070	154220	156050
SGQAKETIPLQETSLYTQDR	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1_HUMA	Methyl (KR)	3078700	2034300	2013400	118710	0	60469	0	0	0
SGQGAFGNMCR	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4_HUMAN	Oxidation (M)	918910	847830	722450	166340	198760	137060	0	0	0
SGQGAFGNMCR	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4_HUMAN	Oxidation (M);Deai	660220	689990	0	100900	119670	0	0	0	0
SGQIKSEVPLVDVTK	MYO1B; MYO1B; M	O43795; H7C2Y7	MYO1B_HUM	Unmodified	534800	509520	0	38732	0	0	0	0	0
SGQKPVLDVHAELDR	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1_HUM	Unmodified	1941800	1887600	1880900	0	0	0	0	0	0
SGQKPVLDVHAELDRITR	DYNC1LI1; DYNC1I	Q9Y6G9; E9PHI6	DC1L1_HUM	Unmodified	2323600	1271300	1357700	0	0	0	0	0	0
SGQQIVGPPR	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Unmodified	11584000	14126000	11284000	776680	701050	904360	0	102840	82998
SGQSEDRQPVPGQQMTLK	C3	P01024	CO3_HUMAN	Oxidation (M)	786140	1418600	581820	43630	57206	69005	0	0	0
SGQSLTDRITAAQHSVTGSAVSK	PICALM; PICALM; F	Q13492; E9PK13;	PICAL_HUM	Acetyl (Protein N-t	1814900	1555800	1725300	60884	0	0	82619	0	0
SGQVLEVSGSK	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2_HUM	Unmodified	6633700	6836300	7034700	326980	0	167290	0	0	0
SGRGGNFGFDSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	26365000	22810000	29211000	3395300	1210100	4772800	729200	436440	1334700
SGRGGNFGFDSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	745280	0	0	706120	649660	816230	128750	0	98050
SGRGGNFGFDSR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Methyl (KR);Deam	3971200	4108600	3972900	360350	298690	412960	162670	94872	0
SGRRSVRMYNK	HKDC1	Q2TB90	HKDC1_HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
SGRYEAAFPFLSPCGR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082_HUM	Unmodified	424400	182860	348420	0	14165	0	0	0	0
SGSAHEYSSSPDDAIFQSLAR	CPE	P16870	CBPE_HUMA	Unmodified	7048300	7228300	7189600	450960	449410	424040	112990	117230	84108
SGSALELSVENVK	PPM1B; N/A; PPM1I	O75688; A0A3B3	PPM1B_HUM	Unmodified	0	452540	0	0	0	0	0	0	0
SGSALELSVENVKNGIR	PPM1B; N/A; PPM1I	O75688; A0A3B3	PPM1B_HUM	Deamidation (N)	3106600	2282100	1890400	38092	0	0	0	0	27409
SGSALLQSQSSTEDPKDEPAELKPDSEDLSSQSSASK	RNF20	Q5VTR2	BRE1A_HUM	Unmodified	1570000	1617400	1682900	0	219690	0	0	0	0
SGSDEVQVGQQR	C3; C3	P01024; M0QXZ3	CO3_HUMAN	Unmodified	4616900	4484700	4692100	221950	229940	265410	0	0	0
SGSEDVVQRMDLEGGWELLR	MROH1; MROH1	Q8NDA8; E9PHY	MROH1_HUM	Oxidation (M)	874900	997340	911420	0	0	0	0	0	0
SGSGNFGGGRGGGFGGNDNFGR	HNRNPA1; HNRNP	P09651; H0YH80;	ROA1_HUMA	2 Methyl (KR);Dea	3127800	2487300	1866600	203440	76027	220110	43004	0	0
SGSGNFGGGRGGGFGGNDNFGR	HNRNPA1; HNRNP	P09651; H0YH80;	ROA1_HUMA	2 Methyl (KR);2 D	2563400	6312700	5438700	107360	103510	101970	34849	22691	71639
SGSGTMNLGGSLTR	CAPZB; CAPZB; CA	P47756; B1AK88;	CAPZB_HUM	Oxidation (M)	3413800	5021800	4862100	259230	210380	254980	0	0	0
SGSKAFLDALQNQAEASSK	TRAP1	Q12931	TRAP1_HUM	Unmodified	929810	534110	754710	0	0	0	0	0	0
SGSKFPVFNMSYNPAENAVLLCTR	COPA; COPA; COPA	P53621; A0A3B3	COPA_HUMA	Oxidation (M);Deai	1262200	0	0	0	0	0	0	0	0
SGSLAVDNADPILKIPFASLASR	AGL	P35573	GDE_HUMAN	Unmodified	440230	515510	348180	0	0	0	0	0	0
SGSLGQPSPSAQR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1_HUM	Unmodified	1470600	1093500	799750	268580	160430	201590	0	242930	0
SGSLSLTQFADMISLK	DSP	P15924	DESP_HUMA	Oxidation (M)	656360	801470	1023600	0	0	0	0	0	0
SGSMDPSGAHPSVR	KHDRBS1	Q07666	KHDR1_HUM	Oxidation (M)	138550000	245880000	187040000	13661000	27446000	27115000	2564000	3609800	226460
SGSPAVLAFAK	NUP210	Q8TEM1	PO210_HUM	Unmodified	3862100	2800500	3850200	61583	68028	81779	0	8889.6	0
SGSPTVPIK	CAMK2D; CAMK2D	Q13557; E9PF82;	KCC2D_HUM	Unmodified	330620	402720	344650	189530	194290	281290	0	51050	48711
SGSSFVHQASFK	RANBP2	P49792	RBP2_HUMA	Unmodified	397080	377420	395330	82644	0	0	0	0	0
SGTAETEPVEQDSSQPSLPLVR	TP53BP1; TP53BP1;	Q12888; H7C3N7	TP53B_HUM	Unmodified	1263000	424810	1326500	52079	0	0	0	0	0
SGTASVVCLLNNFYPR	IGKC; IGKC	P01834; A0A5H1	IGKC_HUMA	Deamidation (N)	1707200	1803100	1327200	0	0	0	0	0	0
SGTASVVCLLNNFYPR	IGKC; IGKC	P01834; A0A5H1	IGKC_HUMA	Unmodified	741590	1068800	1098200	0	0	0	0	0	0
SGTDVDAANLR	CASP3; CASP3; CAS	P42574; A8MVM	CASP3_HUM	Unmodified	1085600	844400	817920	0	0	0	0	0	0
SGTDVDAANLRETFR	CASP3; CASP3; CAS	P42574; A8MVM	CASP3_HUM	Unmodified	1658700	1798200	1966800	44241	0	65945	0	0	0
SGTGIAAMSVMRPEQIMK	ATP6V0C	P27449	VATL_HUMA	3 Oxidation (M)	4956500	3613000	3282200	0	136640	217260	0	0	0
SGTLALVEPLVASLDPGR	SARM1	Q6SZW1	SARM1_HUM	Unmodified	252410	254490	229170	0	0	0	0	0	0
SGTLGHPGSLDETTYER	FXN; FXN; N/A; N/A	Q16595; C9JAX1;	FRDA_HUMA	Unmodified	2172500	2879000	2195400	196180	0	150640	0	0	0
SGTPMKEAVGHTGYLTFATK	TRMT61A; TRMT61	Q96FX7; H0Y2Q1	TRM61_HUM	Oxidation (M)	7290200	1051700	5777300	0	67393	0	0	0	0
SGTRVDHQTGPIVWGEPGTNGQHAFYQLIHQGTK	GPI; GPI; GPI; N/A	P06744; K7EQ48;	G6PI_HUMA	Deamidation (N)	3190200	6541000	6369700	0	0	0	0	0	0
SGTSEFLNK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	37661000	31381000	33206000	1102500	972970	1011500	0	0	0
SGTSEFLNK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Deamidation (N)	2160000	2622100	1911100	0	0	0	0	0	0
SGTSTPTTPGSTAITPGTPPSYSSR	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	2941700	2462600	2037300	0	0	0	124430	0	0
SGTTPKPVINSTPGR	CDC5L	Q99459	CDC5L_HUM	Deamidation (N)	738570	1805400	2146300	0	0	0	0	0	0
SGTTSESGALSLEPSHIGDLQK	NUFIP2	Q7Z417	NUFP2_HUM	Unmodified	3431900	4404800	1662400	143270	49553	95097	0	0	0
SGTVDPQELQK	SRI; SRI	P30626; C9J0K6	SORCN_HUM	Unmodified	3852400	5954200	4642600	310470	458630	456110	0	0	0
SGTVPTPLVVGLGAACEVAQQEMEYDHKR	NFS1	Q9Y697	NFS1_HUMA	Oxidation (M)	626620	454370	774280	0	0	0	0	0	0
SGVAGGILLVVPNVMGMMCWSPPLDKMGNSVK	GLS; GLS; GLS; GLS	O94925; B8ZZA8	GLSK_HUMA	Oxidation (M);Meti	2162600	1761100	1588600	803899	510370	845370	0	391800	350050
SGVAYIAAPSGSAADK	ATIC	P31939	PUR9_HUMA	Unmodified	633450	661540	751920	0	0	0	0	0	0
SGVDADSSYFK	DHRS7	Q9Y394	DHRS7_HUM	Unmodified	699130	791840	0	50162	80595	0	0	0	0
SGVDGPHFPLSLSTCLFGR	MKI67	P46013	KI67_HUMAN	Unmodified	139230	482110	191350	0	0	0	0	0	0
SGVFNVSELVR	NFIB; NFIB; NFIB; N	O00712; U3KQE8	NFIB_HUMA	Unmodified	2671400	2310600	2642700	163150	172940	137460	0	34459	20482
SGVGNIFIK	PABPC5; PABPC1; F	Q96DU9; P11940;	PABP5_HUM	Unmodified	9684400	10160000	10197000	251190	246590	325260	13454	24865	11175
SGVGNIFIKNLDK	PABPC5; PABPC1; F	Q96DU9; P11940;	PABP5_HUM	Deamidation (N)	886340	771240	777240	11535	25210	20370	0	0	0
SGVGTALLLK	TFRC; TFRC	P02786; G3V0E5	TFR1_HUMA	Unmodified	1799100	2223800	1643800	0	0	0	0	0	0
SGVISGGASDLK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	2491800	2711800	2336100	0	0	0	0	0	0
SGVISGGASDLKAK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	1588000	986410	1417200	0	43758	64904	0	0	0
SGVLDTLTK	MYCBP; N/A; MYCE	Q99417; A0A087	MYCBP_HUM	Unmodified	787630	835560	981680	0	0	0	0	0	0
SGVMSEKDHMVTMHDVLDAQWLYDNHKDESYLR	DKC1; DKC1	O60832; H7C2Q2	DKC1_HUMA	2 Oxidation (M);M	0	0	0	62638	92577	0	121510	228660	96505
SGVSITIDDPVR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU_HUM	Unmodified	2395000	2016500	1791500	103170	75510	100830	0	15206	13493
SGVSLAALK	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Unmodified	134370000	122680000	118760000	797510	223750	738040	158000	153720	133190
SGVSLAALKK	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Unmodified	27675000	24116000	24354000	194610	253490	256640	0	0	0
SGVSLAALKK	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Methyl (KR)	3105300	4300700	4328900	0	0	0	0	0	0
SGVSLAALKKALAAAGYDVEK	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Unmodified	2474600	2096500	2410200	0	0	0	0	0	0
SGVSLAALKKALAAAGYDVEK	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Methyl (KR)	4716400	559350	2114100	0	0	0	0	0	0
SGVSLAALKKALAAAGYDVEKNNSR	H1-3; H1-4; H1-2	P16402; P10412;	H13_HUMAN	Deamidation (N)	0	4374700	808810	0	0	0	0	0	0
SGVYQHVTGEMMGGHAIR	CTSB; CTSB; CTSB;	P07858; E9PSG5;	CATB_HUMA	2 Oxidation (M)	28516000	46242000	45911000	2329300	1385300	1194200	0	0	118370
SGWADERGGEGDGR	SRSF9; SRSF9	Q13242; S4R3G0	SRSF9_HUM	Acetyl (Protein N-t	1483900	1118400	1792800	102800	88622	69038	0	0	0
SGYEVPTPIQMQMIPVGLLGR	DDX59	Q5T1V6	DDX59_HUM	2 Oxidation (M)	903840	734540	0	0	0	0	0	0	0
SGYFDERYVLSSR	CKMT1A; CKMT1B;	P12532; C9JSQ1;	KCRU_HUM	Unmodified	3193600	4737900	5364100	347470	303510	295090	0	77353	0
SGYGFNEPEQSR	ZNF326	Q5BKZ1	ZN326_HUM	Unmodified	4196200	4941200	3922100	354890	461880	25306	0	0	0
SGYHQSASEHGLVVIAPDTSPR	ESD; ESD; ESD; ESD	P10768; X6RA14;	ESTD_HUMA	Unmodified	10219000	11414000	7777500	927340	732930	185800	34439	99544	0
SGYIPSGHSLGTPEPAPR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1_HUM	Unmodified	1552100	1563500	1449400	1184200	847130	1038300	4185100	3297900	3297400
SGYLAGDKLLPQR	MSN	P26038	MOES_HUMA	Unmodified	4169800	5247700	4919000	125560	98122	79063	0	24745	26678
SGYLAGDKLLPQR	MSN	P26038	MOES_HUMA	Methyl (KR)	405730	382950	336040	0	0	0	0	0	0
SGYLLPDTK	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	44309000	36772000	50523000	1627200	1442400	1581900	0	0	81991
SGYLLPDTKAYGDR	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	594730	563180	402380	0	0	27641	0	0	0
SGYLLPDTKAYGDRIER	HSP90B1; HSP90B1;	P14625; A0A7P01	ENPL_HUMA	Unmodified	6477000	3569100	6538700	184760	271510	248440	0	0	61980
SGYLSSER	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	968040	7874600	6866600	665010	46949	714010	0	0	0
SGYSSDRDR	DDX5; DDX5; DDX5	P17844; J3QS79;	DDX5_HUMA	Acetyl (Protein N-t	11028000	13309000	7407200	0	0	0	0	0	0
SHAELETALR	GPC1; GPC1; GPC1;	P35052; H7C024;	GPC1_HUMA	Unmodified	394680	298820	323390	0	0	0	0	0	0
SHAGYQTI	LAMP1	P11279	LAMP1_HUM	Unmodified	4312200	1578200	3079200	151170	192350	110380	33586	0	0
SHDGKTPQLPR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A0	MYEF2_HUM	Unmodified	643110	906290	1000800	75332	75860	67385	0	0	0
SHEAEVLK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	8673500	13127000	10875000	0	0	0	0	0	0
SHEAEVLKQLAEK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Methyl (KR)	783740	657040	797040	0	0	0	0	0	0
SHEAEVLKQLAEK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	1257400	660070	1415100	0	0	0	0	0	0
SHEAEVLKQLAEKR	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	2488100	0	1692000	0	0	0	0	0	0
SHEAEVLKQLAEKR	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Methyl (KR)	1024900	1167400	760330	0	0	0	0	0	0
SHEGETAYIR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1_HUM	Unmodified	14605000	13917000	13444000	1753500	1964100	1992600	27734	0	0
SHEGETSYIR	SRSF9	Q13242	SRSF9_HUM	Unmodified	6785600	6189200	7031200	468620	541220	581970	0	0	0
SHFEQWGTLTDCVVMR	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2_HUM	Oxidation (M)	3934600	2282000	2972400	0	0	0	0	0	0
SHGFAAEFK	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SHHAASTTTAPTPAAR	HUWE1	Q7Z6Z7	HUWE1_HUM	Unmodified	0	0	519440	0	0	0	0	0	0
SHISDQSPLSSK	TMPO	P42166	LAP2A_HUM	Unmodified	4960500	3219200	3890000	20414	0	27317	0	0	0
SHISETPLDSESPQQAEVSPDAK	CRYBG3	Q68DQ2	CRBG3_HUM	Unmodified	1397200	1455400	969780	0	0	0	0	0	0
SHKDEVVKIQSLAR	IQGAP1; IQGAP1; IQ	P46940; A0A0J9Y	IQGA1_HUM	Unmodified	1061500	631090	852240	43234	0	0	0	0	0
SHLEPEEK	HIRIP3	Q9BW71	HIRP3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SHLEVPLEENVNR	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124_HUM	Unmodified	1329900	1391800	1176400	0	204030	0	0	29831	0
SHLEVPLEENVNRR	CCDC124; CCDC124	Q96CT7; M0R2F5	CC124_HUM	Unmodified	5702900	4013500	4153800	257860	356220	159180	0	0	0
SHLGNVHDQDN	PCNP	Q8WW12	PCNP_HUMA	Unmodified	1452000	1482000	1361200	159830	162510	155730	0	0	0
SHLVHGSSPGVMGTSVATSASK	NUP214; NUP214; N	P35658; H0YF36;	NU214_HUM	Oxidation (M)	1693500	1563500	1505800	38041	37335	42485	0	12519	0
SHMMDVQGSTQDSAIKDFVLK	PDIA4	P13667	PDIA4_HUM	2 Oxidation (M)	12631000	12757000	11932000	0	0	209640	0	0	0
SHMMDVQGSTQDSAIKDFVLKYALPLVGHR	PDIA4	P13667	PDIA4_HUM	2 Oxidation (M)	860690	438470	1570600	0	0	0	0	0	0
SHMMDVQQGSTQDSAIKDFVLK	PDIA4	A0A499FI48	A0A499FI48	2 Oxidation (M)	1776400	1521500	623820	2362400	2050600	2316000	1362400	0	0
SHPLDPIDTVDFER	QARS1; QARS1; QA	P47897; A0A1B0	SYQ_HUMAN	Unmodified	755750	749530	0	0	84923	0	0	0	0
SHPSWLPPKSTGEPLGHVPAR	LPP; LPP; LPP;	Q93052; C9JUT4;	LPP_HUMAN	Acetyl (Protein N-t	0	0	0	0	0	0	0	118370	58984
SHQTGIQASEDVKEIFAR	TWF1; TWF1	Q12792; F8VRG3	TWF1_HUMA	Acetyl (Protein N-t	1324400	1463700	1443200	117790	63066	0	0	44211	0
SHSAHFFEFLTK	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD_HUM	Unmodified	1459600	1932000	1275600	0	0	0	0	0	0
SHSAHFFEFLTKELALGQDR	DDT; DDTL; DDT; D	P30046; A6NHG4	DOPD_HUM	Unmodified	609560	0	0	0	0	0	0	0	0
SHSTEPGLVLTLGQGIDVGQLGLGENVMER	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1_HUMA	Oxidation (M)	2545500	1541600	0	0	0	0	0	0	0
SHTEEDCTEELFDFLHAR	UQCRH	P07919	QCR6_HUMA	Unmodified	16801000	10671000	14068000	0	0	0	0	0	0
SHTFPELAYR	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	1235800	1161700	1116100	0	0	0	0	0	0
SHTILLVQPTK	ERH; ERH	P84090; G3V279	ERH_HUMAN	Acetyl (Protein N-t	34699000	31506000	32408000	1625600	1379800	1332300	119190	170050	154420
SHTILLVQPTKRPEGR	ERH; ERH	P84090; G3V279	ERH_HUMAN	Acetyl (Protein N-t	13915000	14584000	10059000	4254300	3672900	4102400	687230	574420	689640
SHTLEFQSLEDLIMEK	LRATD2	Q96KN1	LRAT2_HUM	Oxidation (M)	1682100	758870	1821400	0	0	0	0	0	0
SHTSEGAHLDITPNSGAAGNSAGPK	NDRG1; NDRG1; NE	Q92597; E7ESM1	NDRG1_HUM	Deamidation (N)	985560	1753300	1963400	0	0	132780	0	0	0
SHTSEGAHLDITPNSGAAGNSAGPK	NDRG1; NDRG1; NE	Q92597; E7ESM1	NDRG1_HUM	2 Deamidation (N)	7305000	7684700	8892600	209140	159220	226790	0	0	0
SHTSEGTR	NDRG1; NDRG1; NE	Q92597; E7ESM1	NDRG1_HUM	Unmodified	0	577780	33191	153310	0	0	0	0	0
SHVEDGDIAGAPASSPEAPPAEQDPVQLK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	2844300	2869100	3000300	0	0	0	0	0	0
SIAAATSALVK	TLN2; TLN1; TLN2;	Q9Y4G6; Q9Y490	TLN2_HUMA	Unmodified	5853800	6587200	6660200	0	0	0	0	0	0

SIAANMTFAEIVTPFNIDR	POLR2A; POLR2A	P24928; A0A6Q8I	RPB1	HUMA	Oxidation (M);Deai	266220	160210	0	0	0	0	0	0	0
SIAFPSIGSGR	MACROH2A1; MAC	O75367; B4DJC3	H2AY	HUMA	Unmodified	6485900	6179500	5921600	198380	177710	212990	18873	18747	12022
SIAFPSIGSGRNGFPK	MACROH2A1; MAC	O75367; B4DJC3	H2AY	HUMA	Deamidation (N)	1168600	894390	983810	17898	19452	0	0	0	0
SIAKEGFEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	18673000	14756000	19135000	667310	596090	603000	22013	0	0
SIAKEGFEKISK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	4487600	5072100	5404800	471380	453940	427890	22158	27497	26526
SIAKEGFEKISKGANPVEIR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	0	3243600	2459500	0	0	0	0	0	0
SIALTQAR	SPTLC1	O15269	SPTC1	HUM	Unmodified	1810300	2908000	2119500	205920	203370	211510	0	0	0
SIAPSIFGGTDMKK	MCM5; MCM5	P33992; B1AHB1	MCM5	HUM	Oxidation (M)	750740	997750	714390	0	0	0	0	0	0
SIAQYWLGCPAPGHL	VTN	P04004	VTNC	HUM	Unmodified	688410	481120	536430	0	0	0	80263	0	24491
SIATLMTDEIFHDVAYK	SLC4A7; SLC4A7; SI	Q9Y6M7; C9JRP1	S4A7	HUMA	Oxidation (M)	2038500	2038600	0	0	0	0	0	0	0
SICEVLDLER	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	1508100	1145100	1266900	13436	18835	16146	0	0	0
SIDDEITEAK	PRKAA1	Q13131	AAPK1	HUM	Unmodified	756050	863510	699120	76222	0	59116	0	0	0
SIDDEITEAKSGTATPQR	PRKAA1	Q13131	AAPK1	HUM	Unmodified	0	0	0	85453	115120	80409	0	21515	0
SIDFPLTK	ZMPSTE24; ZMPSTI	O75844; A0A6Q8	FACE1	HUM	Unmodified	2293100	1474600	1909400	162290	143780	192010	25408	28082	24605
SIDGSIVLPLAR	ATP13A1	Q9HD20	AT131	HUM	Unmodified	640330	781400	518940	235600	206560	201620	43951	21469	0
SIDLKDKYK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	1408500	1179600	0	0	0	0	0	0	0
SIDLKDKYKNIGAK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	1028800	1586000	1339500	254780	223310	0	0	0	0
SIDLKDKYKNIGAK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Methyl (KR)	2022800	2335300	0	0	0	0	0	0	0
SIDLNRLITQR	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Unmodified	682360	554190	0	0	16609	19115	0	0	0
SIDMDRGFLSGPMGSGMR	MYEF2; MYEF2; MY	Q9P2K5; A0A0A(	MYEF2	HUM	3 Oxidation (M)	875520	791570	916310	0	0	0	0	0	0
SIDMSWDSVTMK	PUF60; PUF60; PUF(	Q9UHX1; E9PMU	PUF60	HUM	2 Oxidation (M)	1151500	1120100	1200000	0	0	0	0	0	0
SIDPGLKEDTLQFLIK	NCAPD2; NCAPD2	Q15021; F5GZK7	CND1	HUM	Unmodified	284540	395760	0	0	0	0	0	0	0
SIDQDYER	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMA	Unmodified	1606300	1826400	2386700	44573	58091	90256	0	0	0
SIDQFANLVLHQTVER	LSM1	O15116	LSM1	HUM	Unmodified	1723800	1338200	1518300	0	0	0	0	0	0
SIEALLEAGQAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	5251900	6311400	5868500	383540	334910	358100	0	60537	15523
SIEALLEAGQARDAQDVQASQAEADQQQTR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	1727900	0	1220500	0	0	0	0	0	0
SIEASVDVSAPK	AHNAK2	Q8IVF2	AHNK2	HUM	Unmodified	130250	128040	129140	0	0	0	0	9918.8	0
SIEAVHEDIR	DTYMK; DTYMK; D	P23919; H7C312;	KTHY	HUM	Unmodified	1437300	1243300	1225000	0	0	0	0	0	0
SIEAVHEDIRVLSEDAIR	DTYMK; DTYMK	P23919; H7C312	KTHY	HUM	Unmodified	7921700	5796700	7767700	0	0	0	0	0	0
SIEDFAHSSFQMALSK	IDH1	O75874	IDHC	HUMA	Oxidation (M)	3991600	4518700	4055900	51521	0	12847	0	0	0
SIEEAMNEIR	SPAG7; SPAG7	O75391; I3L0X5	SPAG7	HUM	Oxidation (M)	0	3943800	2039200	70502	33259	0	0	0	0
SIEEIVR	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Unmodified	9707300	9843500	8119500	0	85461	0	0	0	0
SIEEQLGTEIKPIPSNIDK	DDX6	P26196	DDX6	HUMA	Unmodified	4252300	3249300	4383500	0	0	0	0	0	0
SIEIPRPVDGVEVPGCGK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2	HUM	Unmodified	4206500	4342100	4339200	127150	42684	29635	0	0	14875
SIEKIWAR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG	HUM	Acetyl (Protein N-t	2595900	2554600	2396900	0	0	0	0	0	0
SIEKLNSSLHFLQQEMQRLSLQQEMLMQMR	CAMSAP2	Q08AD1	CAMP2	HUM	2 Oxidation (M);M	3607400	671690	1390100	0	0	0	0	0	0
SIELFYK	PRKDC	P78527	PRKDC	HUM	Unmodified	3832500	2901200	3326200	0	20487	0	0	0	0
SIEPYLK	SDHB; SDHB; SDHB	P21912; A0A087	SDHB	HUMA	Unmodified	0	0	3210500	147180	181390	0	0	0	0
SIESTLDDLFR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	287260	0	296480	0	0	0	0	0	0
SIEVFGQFNGKR	C9	P02748	CO9	HUMA	Deamidation (N)	863540	532490	484800	240990	231980	223030	93718	19117	0
SIEVFGQFNGKR	C9	P02748	CO9	HUMA	Unmodified	0	0	0	54844	57656	43842	81617	54241	49862
SIEVIENR	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Unmodified	41029000	39607000	38996000	2422100	2375200	2192000	18952	13106	0
SIEVIENR	NASP; NASP; NASP;	P49321; E9PRH9;	NASP	HUMA	Deamidation (N)	1336100	1139300	1274700	0	0	40555	0	0	0
SIEYSPQLEDAGSR	HSPG2; HSPG2	P98160; A0A3B3I	PGBM	HUM	Unmodified	1413600	1644500	1818100	320460	359960	263290	0	0	0
SIEYSPQLEDAGSREFR	HSPG2; HSPG2	P98160; A0A3B3I	PGBM	HUM	Unmodified	784430	1318500	0	47389	247470	227340	50620	37649	35601
SIFASPESVTGK	SMNDC1	O75940	SPF30	HUM	Unmodified	4249500	3987000	4028900	105130	393490	356720	0	0	22553
SIFDFSALKELLSGPNR	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Unmodified	213030	0	94915	0	0	0	0	0	0
SIFDFSALKELLSGPNRLK	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Unmodified	669350	0	342880	0	0	0	0	0	0
SIFDFSALKELLSGPNRLK	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Deamidation (N)	136140	0	29981	0	0	0	0	0	0
SIFDGFRDFQTETIR	UBXN7	O94888	UBXN7	HUM	Unmodified	881860	768120	920650	0	0	0	0	0	0
SIFGEDALANVSIEKPIHQGPDAAVTGHIR	COPB1	P53618	COPB	HUMA	Unmodified	1615200	1369200	2214100	0	0	0	0	0	0
SIFKPFIFVDDVK	SCRN1	Q12765	SCRN1	HUM	Unmodified	1473300	924700	1306000	0	0	0	0	0	0
SIFKPFIFVDDVKLVPK	SCRN1	Q12765	SCRN1	HUM	Unmodified	1042100	913500	1125500	0	0	0	0	0	0
SIFQHIQSAQSQR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	11998000	11810000	11753000	188580	337000	329190	0	0	0
SIFSGIGSTAEPVSQSTTSDYQWDVSR	MTDH; MTDH	Q86UE4; H0YBJ8	LYRIC	HUM	Unmodified	3404500	3202600	4440900	0	0	0	0	0	0
SIFYVPDMKPSMFDVSR	TRAP1; TRAP1; TRA	Q12931; I3L0K7;	TRAP1	HUM	2 Oxidation (M)	3744800	3269500	3619400	48486	37877	37617	0	0	0
SIGASPNPFSVHTATAVPSGK	POLA1; POLA1; POI	P09884; A0A7I2V	DPOLA	HUM	Unmodified	1334500	854930	1145900	0	0	0	0	0	0
SIGEAIQYLHSINIAHR	MAPKAPK2	P49137	MAPK2	HUM	Unmodified	492320	245570	261300	0	0	0	0	0	0
SIGESVPEPR	GMPPB; GMPPB; GI	Q9Y5P6; A0A7I2I	GMPPB	HUM	Unmodified	1406400	2057200	2084400	423170	442250	420420	59340	0	0
SIGEYDVLR	PRKDC	P78527	PRKDC	HUM	Unmodified	21613000	20604000	27012000	368710	358300	339850	0	15767	0
SIHDFCLVSK	SPINT2; SPINT2	O43291; K7EKQ0	SPIT2	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SIHEIPRQDILTQESR	NCOR1; NCOR1	O75376; A0A088	NCOR1	HUM	Unmodified	735320	484840	405030	0	30340	37618	0	0	0
SIIEGPIIK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Unmodified	791750	744250	0	0	0	0	0	0	0
SIIGMGTGAGAYILTR	NDRG1; NDRG1; NI	Q92597; E5RG99;	NDRG1	HUM	Oxidation (M)	28472000	22813000	23058000	118510	0	0	10312	0	15617
SIIGVIPYFPYSK	PRPSAP2; PRPSAP2	O60256; E7EPA1;	KPRB	HUMA	Unmodified	496300	523880	716880	0	0	0	0	0	0
SIILEGFK	SMC2	O95347	SMC2	HUMA	Unmodified	911870	1105800	712390	0	0	0	0	0	0
SIIPLPHPVRPEDIE	NAA20; NAA20	P61599; A8MZB2	NAA20	HUM	Unmodified	2812200	5353600	5589800	0	0	0	0	0	0
SIIQEFPEITILTTEVHPVAPTHFGQK	UPRT; UPRT; UPRT	Q96BW1; E9PSD7	UPP	HUMA	Unmodified	404810	217570	363280	0	0	0	0	0	0
SIIQSAQQDSIKK	GCN1	Q92616	GCN1	HUMA	Unmodified	464070	0	182140	0	17828	23114	0	0	0
SIIRNVKGPVREGDVLTLLESER	RPS28	P62857	RS28	HUMA	Deamidation (N)	868260	596670	685970	0	0	0	0	0	0
SIISMFDRENK	PDCD6	O75340	PDCD6	HUM	Oxidation (M)	3394900	1726400	3188500	58142	0	135400	0	0	0
SIISMFDRENK	PDCD6	O75340	PDCD6	HUM	Oxidation (M);Deai	333200	0	275450	8665.4	0	0	0	0	0
SIITYVSSLYDAMPR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	929250	1505400	782040	0	0	0	0	0	0
SIKDTICNQDER	CORO1C; CORO1C;	Q9ULV4; H0YHL	COR1C	HUM	Unmodified	393880	651830	609720	0	0	0	0	0	0
SILAETEGMLR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Oxidation (M)	1971300	1133700	1226200	97256	109340	79293	0	0	0
SILAETEGMLRDLQK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Oxidation (M)	7711500	5834600	6809300	0	0	0	18253	0	0
SILAMHAQDPQMLDQLSK	LDB1; LDB1	Q86U70; A0A6E1	LDB1	HUMA	2 Oxidation (M)	899720	676240	711210	0	0	0	0	0	0
SILCCLR	PTGES3; PTGES3	O15185; A0A087	TEBP	HUMA	Unmodified	3524100	0	0	195970	0	0	0	0	0
SILDVSMGAQEPSRPLFSLIK	TNFAIP2; TNFAIP2;	Q03169; H0YKR7	TNAP2	HUM	Oxidation (M)	665150	1009800	609450	0	0	0	0	0	0
SILEYLR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	4449100	2366600	2844600	215410	0	0	0	0	0
SILFSNR	TTC1	Q99614	TTC1	HUM	Unmodified	2376400	2239800	2309000	315170	300070	332900	26647	67730	30975
SILFSNR	TTC1	Q99614	TTC1	HUMA	Deamidation (N)	0	961970	0	0	0	0	0	0	0
SILFVPTSAPR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUMA	Unmodified	179760000	169190000	186590000	9528900	11775000	10472000	742060	472370	509190
SILKIDDVVNTR	CCT4	P50991	TCPD	HUMA	Deamidation (N)	4244300	2713400	2906400	18063	21864	18170	0	16009	0
SILKIDDVVNTR	CCT4	P50991	TCPD	HUMA	Unmodified	658630	662350	597420	22240	32884	27022	17779	0	0
SILKIHAR	ENO1; ENO1; ENO1;	P06733; K7ERS8;	ENOA	HUM	Acetyl (Protein N-t	0	1504200	1196600	123880	200450	184300	0	0	0
SILLATDVASR	DDX47	Q9H0S4	DDX47	HUM	Unmodified	2125900	2131600	2431100	92189	124280	107480	76346	0	0
SILPTAPR	EIF4B; EIF4B; EIF4B	P23588; F8VP89;	IF4B	HUMA	Unmodified	16271000	10709000	11194000	1460400	1565000	1477200	368290	414130	352970
SILTQIDHILMDKER	AATF; AATF; AATF;	Q9NY61; A0A087	AATF	HUMA	Oxidation (M)	812680	402790	754900	0	0	0	0	0	0
SILTVPWVELGGK	OSBPL11	Q9BXB4	OSB11	HUM	Unmodified	385550	319870	253100	0	0	0	0	0	0
SILVSPTGPSR	RRP1B	Q14684	RRP1B	HUM	Unmodified	1669000	1621300	2158900	0	0	0	0	0	0
SILYDER	PSMA2; N/A; PSMA2	P25787; A0A7I2V	PSA2	HUMA	Unmodified	3255800	3626200	3888100	275560	190260	199830	0	0	0
SIMDEAPLTDVRDIKDT	RABEP2; RABEP2	Q9H5N1; B4DHR(	RABE2	HUM	Oxidation (M)	0	0	0	106460	0	118070	38673	0	0
SINAAQSNVMQAIRCIAMR	N/A	N/A	N/A		Oxidation (M)	2201500	1260500	0	0	0	0	0	0	0
SINGELYAPLQHVSAVLPGGAADR	SNX27; SNX27	Q96L92; A0A2R8	SNX27	HUM	Deamidation (N)	4899600	3325700	2901200	0	0	0	0	0	0
SINGILFPGGSVDLR	GGH; GGH; GGH; G	Q92820; A0A7I2V	GGH	HUMA	Deamidation (N)	5948700	5460700	5441500	0	0	0	0	0	0
SINGILFPGGSVDLRR	GGH; GGH; GGH; G	Q92820; A0A7I2V	GGH	HUMA	Deamidation (N)	5151600	6313300	2825800	0	0	0	0	0	0
SINPDEAVAYGAAVQAAILMGDK	HSPA1L; HSPA1A; I	P34931; P0DMV8	HS71L	HUM	Oxidation (M)	1633600	0	1534900	0	0	0	0	0	0
SINPDEAVAYGAAVQAAILSGDK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	928280	593430	0	0	0	0	0	0	0
SINPLGGFVHYGEVTNDFVMLK	RPL3; RPL3	P39023; G5E9G0	RL3	HUMA	Oxidation (M);Deai	1888300	535470	1229900	0	0	0	0	0	0
SINQPVAFVR	SLIRP; SLIRP; SLIRI	Q9GZT3; H0YJI1;	SLIRP	HUM	Unmodified	65939000	52940000	66295000	2637700	2762400	2763000	152500	155190	188260
SINQPVAFVR	SLIRP; SLIRP; SLIRI	Q9GZT3; H0YJI1;	SLIRP	HUM	Deamidation (N)	0	1761100	1854200	40306	0	26478	0	0	0
SINQQSGAHVELQR	FUBP3	Q96I24	FUBP3	HUM	Unmodified	3812700	3941400	4027100	324880	0	0	31006	20878	18702
SINQQSGAHVELQR	FUBP3	Q96I24	FUBP3	HUM	Deamidation (N)	2098800	1825100	1692500	218850	147590	138010	0	0	14808
SIPAGAEPGEK	JPT2; JPT2; JPT2	Q9H910; A6NGP5	JUPI2	HUMA	Unmodified	3645100	4795500	2953300	205050	166780	158850	0	0	0
SIPAGAEPGEKGSAR	JPT2; JPT2; JPT2	Q9H910; A6NGP5	JUPI2	HUMA	Unmodified	12175000	10978000	10278000	2655200	2890700	2877700	435340	436220	0
SIPASDLPQVR	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D	HUM	Unmodified	5513300	3437300	4810200	288760	277640	335920	0	0	0
SIPHITSDRLLIK	CRMP1	Q14194	DPYL1	HUM	Unmodified	3498900	3662800	3887700	49238	15846	26164	0	0	0
SIPICTLK	UBA1	P22314	UBA1	HUMA	Unmodified	1861200	1537300	1396600	0	0	0	0	0	0
SIPLDEGEDEAQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	4951200	6124800	4299300	277570	303180	271410	0	0	0
SIPLDEGEDEAQRR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	4900500	3764100	1904800	279330	191320	272220	0	0	0
SIPMTVDFIR	HPRT1	P00492	HPRT	HUMA	Oxidation (M)	41025000	34208000	38024000	294780	725530	291450	129460	145650	0
SIPPEGLAQSELMRLPSGK	FARSA; FARSA; FAI	Q9Y285; K7ER16	SYFA	HUMA	Oxidation (M)	4345600	3904000	4253000	69063	48688	0	19658	0	20147
SIPSLVDGFKPGQR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	9998300	6734200	9077300	352830	201170	439850	0	0	0
SIPSMVDGLKPGQR	TOP2A	P11388	TOP2A	HUM	Oxidation (M)	6920100	6152900	4705400	0	12478	0	0	0	0
SIPTLISR	RCC1; RCC1	P18754; C9JW69	RCC1	HUMA	Unmodified	3804500	3184400	1865300	0	64190	80836	0	0	0
SIQADGLVWGGSK	EEF1B2	P24534	EF1B	HUMA	Unmodified	8184800	8645900	8977400	121510	123990	120150	0	0	0
SIQDAELLVK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SIQEAPVSEDLVIR	TOR1AIP1; TOR1AIP	Q5JTV8; A0A0A0	TOIP1	HUM	Unmodified	11181000	8346600	7814500	1888300	1893800	2044300	46830	35485	0
SIQEELQQLR	PLEC	Q15149	PLEC	HUMA	Unmodified	3340800	2708500	3356300	326640	278930	209290	100300	43156	43635
SIQEIQELDKDDESLR	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1	HUM	Unmodified	9254200	3162400	3169200	0	47863	0	0	0	0
SIQEIQELDKDDESLRK	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1	HUM	Unmodified	8610500	7300100	6554400	85603	136640	108010	0	0	0
SIQFVDWCPTGFK	TUBA4A; TUBA1B	P68366; P68363	TBA4A	HUM	Unmodified	13087000	13489000	18433000	0	23305	16537	0	0	0
SIQHCNIR	FBN1; FBN1	P35555; F6U495	FBN1	HUM	Unmodified	0	0	116790	423260	0	0	0	423310	0
SIQHHLR	VTA1; VTA1	Q9NP79; A0A087	VTA1	HUM	Unmodified	896640	6639700	5166900	277620	301640	277990	0	0	0
SIQLDGLVWGASK	EEF1D; EEF1D; EEF	P29692; E9PQC9;	EF1D	HUM	Unmodified	7676400	7426100	6138000	0	0	0	16630	13444	0
SIQMLTLLR	TMED1; TMED1; TM	Q13445; K7EQ63;	TMED1	HUM	Oxidation (M)	2373100	1755100	3328200	48491	101330	94113	0	8870.1	0
SIQSGPLK	IMMT; IMMT; IMM1	Q16891; D6RAW4	MIC60	HUM	Unmodified	2839000	2533400	2466100	126710	90280	96116	0	0	0
SIQVLPSHELVSTR	PIKFYVE; PIKFYVE	Q9Y2I7; E9PDH4	FYV1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SIRDTPAKNAQK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM	HUMA	Deamidation (N)	13670000	13430000	15024000	428300	471440	489300	0	38786	61542
SIRPDNMSEYSK	HDAC2; HDAC1; HI	Q92769; Q13547;	HDAC2	HUM	Oxidation (M);Deai	4308200	4561100	4299400	41957	213510	308070	14992	0	0
SIRPDNMSEYSK	HDAC2; HDAC1; HI	Q92769; Q13547;	HDAC2	HUM	Oxidation (M)	5036200	5831500	5765200	184550	191910	187500	0	0	0

SISADDDLQESSR	NELFE; NELFE; NEI	P18615; A2ABK4	NELFE_HUM	Unmodified	1066800	1269400	1243800	0	61505	0	0	0	0
SISESAFSAR	GPC4	O75487	GPC4_HUMA	Unmodified	2265500	1682300	1483400	0	336000	289490	0	37506	0
SISFHPSGDFILVGTQHPTLR	CSTF1; CSTF1	Q05048; A0A0A0	CSTF1_HUM	Unmodified	6132800	3521500	3128000	0	0	0	0	0	0
SISFIPPDGEFELMR	AP2M1; AP2M1; AP	Q96CW1; C9JJ47;	AP2M1_HUM	Oxidation (M)	752530	495110	533410	0	0	0	0	0	0
SISGTPAETPACK	HECTD4; HECTD4; I	Q9Y4D8; J3KPF0	HECD4_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SISLYYTGEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	61082000	47025000	49344000	971920	1068900	1020200	0	0	0
SISLYYTGEKGQNQDYR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	16171000	16717000	17230000	496280	637980	589120	38711	54250	36490
SISLYYTGEKGQNQDYR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Deamidation (N)	12587000	9018000	11877000	219290	323050	190420	0	62228	10726
SISLYYTGEKGQNQDYR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Methyl (KR)	3418300	3638000	3583200	79255	62694	50950	0	0	16973
SISLYYTGEKGQNQDYR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Methyl (KR);Deam	3826700	3062000	3614700	75530	0	77831	0	0	0
SISLYYTGEKGQNQDYRGGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	1133300	1588200	0	85435	0	46169	0	0	0
SISLYYTGEKGQNQDYRGGKNSTWSGESK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Deamidation (N)	4135700	1290300	3396800	0	0	0	0	0	0
SISLYYTGEKGQNQDYRGGKNSTWSGESK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	2 Deamidation (N)	9352300	6450100	6501100	0	0	0	0	0	0
SISMTTFTQQEIEFLQK	AGFG1; AGFG1	P52594; B8ZZY2	AGFG1_HUM	Oxidation (M)	1224200	1052900	0	0	0	0	0	0	0
SISQLESLNRELQER	ROCK1; ROCK1	Q13464; A0A0U1	ROCK1_HUM	Unmodified	0	1572000	2851400	0	0	0	0	0	0
SISQQSGAR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1_HUM	Unmodified	16361000	9952300	13282000	485000	487450	428160	0	0	0
SISQSISGQK	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B_HUMA	Unmodified	2032600	1998000	1290400	34440	78152	0	0	0	0
SISSPSVSSETMDKPVDLSTR	RANBP2	P49792	RBP2_HUMA	Oxidation (M)	1178100	546600	627390	0	61421	80482	0	0	0
SISVIDSPGILSGEK	EHD4	Q9H223	EHD4_HUMA	Unmodified	657760	615910	1090300	58724	58491	46014	0	0	0
SISVIDSPGILSGEKQR	EHD4	Q9H223	EHD4_HUMA	Unmodified	5230200	4709000	5716000	198330	137050	0	0	0	0
SITHDIEEK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9_HUM	Unmodified	3047900	2224400	3163000	78169	0	0	0	0	0
SITHDIEEKGVR	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9_HUM	Unmodified	1597600	6020000	6211000	297530	300860	0	0	0	0
SITVLVEGENTR	MCM7; MCM7	P33993; C9J8M6	MCM7_HUM	Unmodified	3566200	2439200	3244600	0	0	40206	0	0	0
SITVLVEGENTR	MCM7; MCM7	P33993; C9J8M6	MCM7_HUM	Deamidation (N)	1021900	0	1348400	0	0	0	0	0	0
SITVTQDEGIRPSTTMEGLAK	ACAA1; ACAA1; AC	P09110; C9JDE9;	THIK_HUMA	Oxidation (M)	3433300	2907800	1641500	311690	322390	896150	124570	80610	78019
SIVAVEPR	ZMYM4; ZMYM4	Q5VZL5; H7C1I7	ZMYM4_HUM	Unmodified	473870	487050	376740	32390	0	30209	0	0	0
SIVEEIEDLVAR	RPN2; RPN2; RPN2;	P04844; F2Z3K5;	RPN2_HUMA	Unmodified	84184	0	0	0	0	0	0	0	0
SIVEGIIEEEEEDEEGSESISK	PPME1	Q9Y570	PPME1_HUM	Unmodified	1976700	1120800	1425000	0	0	0	0	0	0
SIVEGIIEEEEEDEEGSESISKR	PPME1	Q9Y570	PPME1_HUM	Unmodified	6794600	5931300	8872700	0	0	0	0	0	0
SIVIRPLEPQPAPHLAR	EFTUD2; EFTUD2	Q15029; K7EP67	U5S1_HUMA	Unmodified	6172400	4942800	6898100	93842	110460	52471	0	0	0
SIVPQGGSHSLR	HSPG2	P98160	PGBM_HUM	Unmodified	3305200	2606200	3143900	1005900	0	1066900	724500	789840	0
SIVPTMHYQDSLPR	CPT2; CPT2; CPT2;	P23786; A0A1B0	CPT2_HUMA	Oxidation (M)	811680	788070	958750	66593	67632	96590	0	0	0
SIVTDLVSQMDPHGRR	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Oxidation (M)	629580	840850	791130	38139	0	0	0	0	0
SIVTTLVPSELISAVPTTK	NCOA6	Q14686	NCOA6_HUM	Unmodified	429460	277540	0	0	0	0	0	0	0
SIWAFGPDATGPNILVDDTLPSEVDK	EFTUD2; EFTUD2; E	Q15029; K7EP67;	U5S1_HUMA	Unmodified	72108	0	0	0	0	0	0	0	0
SIWTDTPADRER	GPALPP1; GPALPP1	Q8IXQ4; A0A0A0	GPAM1_HUM	Unmodified	0	507870	597340	0	0	31615	0	0	0
SIYDDISSPGLGSTPLTSR	NUP35; NUP35; NUP	Q8NFH5; F8WCF	NUP35_HUM	Unmodified	1804500	1515500	2259300	0	19449	0	20003	0	12420
SIYGERFPDENFK	PPIB; PPIB; PPIB	P23284; A0A7P01	PPIB_HUMA	Unmodified	3024000	3203000	3621200	201150	182360	180410	18714	0	18607
SIYGERFPDENFKLK	PPIB; PPIB; PPIB	P23284; A0A7P01	PPIB_HUMA	Unmodified	1610300	1969100	2563700	89898	42877	42565	0	20955	0
SIYGERFPDENFKLK	PPIB; PPIB; PPIB	P23284; A0A7P01	PPIB_HUMA	Deamidation (N)	1384500	1209800	1183800	31725	0	0	0	0	0
SIYGSRFPDENFTLK	PPIF; PPIF; PPIF	P30405; H0Y548;	PPIF_HUMA	Unmodified	1383700	759510	905370	0	0	0	0	0	0
SIYYITGESK	HSP90AB1; HSP90A	P08238; Q58FF8	HS90B_HUM	Unmodified	22877000	17536000	18223000	509160	481230	450690	0	0	25781
SIYYITGESKEQVANSAFVER	HSP90AB1	P08238	HS90B_HUM	Methyl (KR)	2003300	1398600	1029100	0	0	0	0	0	0
SIYYITGESKEQVANSAFVER	HSP90AB1	P08238	HS90B_HUM	Deamidation (N)	20109000	24572000	21153000	64182	33627	0	0	20100	0
SIYYITGESKEQVANSAFVER	HSP90AB1	P08238	HS90B_HUM	Unmodified	4824500	16178000	16466000	0	49550	0	0	0	0
SIYYITGESKEQVANSAFVER	HSP90AB1	P08238	HS90B_HUM	Methyl (KR);Deam	958060	1168300	1702100	0	59940	0	0	0	0
SKADVERYIASVQGSTPSPR	RANBP2; RANBP2	P49792; F8WBP7	RBP2_HUMA	Unmodified	0	0	0	83550	0	0	0	0	13608
SKAEELGLPILGVLR	ACAA1; ACAA1; AC	P09110; C9JDE9;	THIK_HUMA	Unmodified	1119800	1032400	1193900	0	0	0	0	0	0
SKAEEWGVQYVETSAK	RALB; RALB	P11234; C9J6B1	RALB_HUMA	Unmodified	0	1425400	0	0	0	0	10372	0	0
SKAELMEISEDK	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Oxidation (M)	652590	574700	1247000	0	0	0	0	0	0
SKAELMEISEDKTK	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Oxidation (M)	6385200	5202400	5745900	0	0	0	0	0	0
SKAMTGVEQWPYR	CCT3; CCT3	P49368; B4DUR8	TCPG_HUMA	Oxidation (M)	1629600	0	2079300	0	0	0	0	0	0
SKAQVAKESVLQFYPK	UBA2	Q9UBT2	SAE2_HUMA	Unmodified	716360	1145500	913070	0	0	24715	0	0	0
SKATSVALPGWSPSETR	PKN2; PKN2	Q16513; B1AL79	PKN2_HUMA	Unmodified	0	501390	494750	0	0	40670	0	0	0
SKCEELSGLHGQLQEAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	1825100	1580700	2589500	216150	185520	294470	0	0	0
SKDIFDQLAK	MCM3; MCM3; MC3	P25205; A0A499	MCM3_HUM	Unmodified	0	676100	746960	0	0	0	0	0	0
SKDKLDQVSSEIKEK	HSD17B12; HSD17B	Q53GQ0; A0A1B0	DHB12_HUM	Unmodified	1581100	1336100	1476900	33910	0	44693	0	0	0
SKDPSGLLISVIR	EXOC4	Q96A65	EXOC4_HUM	Unmodified	1041400	562160	497670	30013	12378	0	0	0	0
SKEFAQIIK	FH	P07954	FUMH_HUM	Unmodified	696570	817910	626110	0	0	12171	0	0	0
SKELGVATN	MTHFD2; MTHFD2;	P13995; A0A7I2V	MTDC_HUM	Unmodified	1590300	0	1133100	0	0	0	0	0	0
SKENPRNFSDNQLQEGKNVIGLQMGTNR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2_HUM	Oxidation (M);Deam	2373700	0	2180900	0	0	0	0	0	0
SKEQAELEAAR	PLEC	Q15149	PLEC_HUMA	Unmodified	0	0	632460	405130	381440	664290	0	0	0
SKESVPEEPPLSPPK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	174710000	149980000	157870000	451010	487290	476480	33478	0	0
SKESVPEEPPLSPPK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Methyl (KR)	3002300	3156100	3047100	0	0	0	0	0	0
SKESVPEEPPLSPPKK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	708510	633930	796850	0	0	0	0	0	0
SKESVPEEPPLSPPKKK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Unmodified	20664000	19164000	18267000	0	0	92890	0	0	0
SKESVPEEPPLSPPKKK	STMN1; STMN1	P16949; A2A2D0	STMN1_HUM	Methyl (KR)	5539000	5165400	4461400	0	0	0	0	0	0
SKETQEELNKAR	GOLGA5	Q8TBA6	GOGA5_HUM	Unmodified	456590	362400	297090	249860	170690	223680	11373	10786	15286
SKFALITWIGENVSGLQR	COTL1; COTL1	Q14019; H3BT58	COTL1_HUM	Unmodified	5689400	614020	3195100	0	0	0	0	0	0
SKFDELSASNLPPNLK	MRPL50	Q8N5N7	RM50_HUMA	Unmodified	0	903820	835740	0	0	0	0	0	0
SKFDEMAK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Oxidation (M)	1594500	2393000	3113800	0	63041	0	0	0	0
SKFENEEFFR	CBFB; CBFB; CBFB;	Q13951; J3KRT0;	PEBB_HUMA	Unmodified	1361800	1381400	0	56262	50437	55896	0	0	0
SKGESDDFHMDFDSAVAPR	TOP2A	P11388	TOP2A_HUM	Oxidation (M)	4241400	3677000	4114700	0	0	0	0	0	0
SKGFGFVCFSSPEEATK	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	Unmodified	1296100	1086700	1212000	79681	0	0	0	0	0
SKGIAYIEFK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	1151900	1021100	1002100	0	0	0	0	0	0
SKGIAYIEFKTEADAEKTFEEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	2797600	3179200	3633900	0	0	0	0	0	0
SKGPAVGIDLGTTYSCVGVFQHGK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Acetyl (Protein N-t	829630	0	901630	0	0	0	0	0	0
SKGPSAAGEQEPDKESGASVDEVAR	METAP2; METAP2;	P50579; F8VSC4;	MAP2_HUMA	Unmodified	2133300	3726300	2035900	79056	0	89544	0	0	0
SKGQESFK	NPM1; NPM1; NPM1	P06748; E5RI98;	NPM_HUMA	Unmodified	12811000	15863000	14639000	850760	0	966720	0	0	0
SKGQESFKKQEK	NPM1; NPM1; NPM1	P06748; E5RI98;	NPM_HUMA	Unmodified	3952500	34152000	5368500	0	0	135770	0	0	0
SKIEDYFPEFAR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1_HUM	Unmodified	2127900	1597400	1645700	0	0	0	0	0	0
SKIETEIK	CACYBP; CACYBP	Q9HB71; B2ZWH	CYBP_HUMA	Unmodified	900580	865330	860510	0	0	0	0	0	0
SKINVNEIFYDLVR	RAP1B; RAP1A; N/A	P61224; P62834;	RAP1B_HUM	Unmodified	3271800	3680200	4229000	0	0	0	0	0	0
SKINVNEIFYDLVR	RAP1B; RAP1A; N/A	P61224; P62834;	RAP1B_HUM	Deamidation (N)	818920	574960	677030	0	0	0	9382.4	0	0
SKISVNDFIIK	DLAT; DLAT; DLAT	P10515; A0A7P01	ODP2_HUMA	Unmodified	496740	182880	474960	0	0	0	0	0	0
SKKPAGGVDFDET	PAXX	Q9BUH6	PAXX_HUM	Unmodified	0	0	0	144150	212000	166930	0	0	0
SKKVEEAEPEEFVVEK	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Unmodified	5631700	5713100	6210600	62766	0	0	0	0	0
SKKVEEAEPEEFVVEK	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Methyl (KR)	1136700	1310300	969960	0	0	0	0	0	0
SKLAAAILGGVDQIHIKPGAK	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL_HUMA	Unmodified	1554500	888780	947840	0	0	0	0	0	0
SKLEDIANAALAASAVTQVAK	SCFD1; SCFD1; SCF	Q8WVM8; A0A7I	SCFD1_HUM	Unmodified	1808800	2114300	1949500	0	0	0	0	0	0
SKLESELANFGPR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	2215300	2762100	2394800	0	0	30478	34740	22720	10752
SKLGESQTLQQFSR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Methyl (KR)	1616900	0	647850	0	0	0	0	0	0
SKLHLVDLAGSER	KIF4A; KIF4B	O95239; Q2VIQ3	KIF4A_HUM	Unmodified	451660	429570	406820	0	0	0	0	0	0
SKLPKPVQDLIK	PARP1	P09874	PARP1_HUM	Unmodified	1638200	1477700	1454700	0	0	0	0	0	0
SKLVLPAPQISDAELQEVVK	CDC5L	Q99459	CDC5L_HUM	Unmodified	10941000	9208400	9688500	0	0	0	0	0	0
SKNTVSSAR	ARPC5; ARPC5	O15511; B1ALC0	ARPC5_HUM	Acetyl (Protein N-t	0	319600	779350	592020	417490	52654	0	9730.6	96697
SKNTVSSAR	ARPC5; ARPC5	O15511; B1ALC0	ARPC5_HUM	Acetyl (Protein N-t	0	0	0	562550	448870	0	0	0	0
SKPELPPGLSPEATAPVTPSRPEGGEPGLSK	PYM1	Q9BRP8	PYM1_HUMA	Unmodified	1684400	1936200	2261100	69901	59650	0	0	0	0
SKPGAAMVEMADGYAVDR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL_HUM	2 Oxidation (M)	5719900	7752800	8638100	423920	216630	181740	0	0	0
SKPHSEAGTAFIQTQQLHAAMADTFLEHMCR	PKM; PKM; PKM; PI	P14618; B4DNK4	KPYM_HUM	Acetyl (Protein N-t	8899200	7273300	7928000	0	0	0	0	0	0
SKPIPIMPASPQK	DNM1L	O00429	DNM1L_HUM	Oxidation (M)	1757800	4764400	1384300	0	71178	0	0	0	0
SKPIPIMPASPQKGHAVNLLDVPVPVAR	DNM1L	O00429	DNM1L_HUM	Oxidation (M)	1720100	1609100	1366600	0	0	0	0	0	0
SKPSFHAPEPK	MAP4K4; MAP4K4;	O95819; C9J840;	M4K4_HUMA	Unmodified	0	433780	580410	133250	104550	121470	0	0	0
SKPVFSESLSD	TIMM8A	O60220	TIM8A_HUM	Unmodified	6219600	5736700	0	733880	777970	721240	71674	79887	87161
SKQAEEEF	TARS1	P26639	SYTC_HUMA	Unmodified	2436800	2575500	3083200	104040	135070	176410	0	0	0
SKQAILAAQR	EDF1	O60869	EDF1_HUMA	Unmodified	1189700	1050600	1162500	108830	126150	162720	0	0	0
SKQEALKNDLVEALKR	CAPZB	B1AK88	B1AK88_HUM	Unmodified	1200500	1296300	1690000	0	0	0	0	0	0
SKQLEEDIAAKEK	TPM1	Q6ZN40	Q6ZN40_HUM	Unmodified	0	0	0	0	0	0	254270	289640	267690
SKQLEEDIAAKEKLLR	TPM1	Q6ZN40	Q6ZN40_HUM	Unmodified	0	0	0	0	0	0	542210	325140	0
SKQPLPSAPENNPEEELASK	AURKA; AURKA; AI	O14965; Q5QPD4	AURKA_HUM	Methyl (KR);Deam	0	0	139440	0	0	0	0	0	0
SKRDPSEEIEILLR	RPS6KA1; RPS6KA2	Q15418; Q15349;	KS6A1_HUM	Unmodified	570940	0	640050	0	0	0	0	0	0
SKREQEVNILK	MYH9	P35579	MYH9_HUMA	Unmodified	1120000	761940	918560	170260	154140	0	0	0	0
SKREQEVTELKK	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	628870	388210	203170	0	0	0	0	0	0
SKRSKSSEHK	SON; SON	P18583; H7C1M2	SON_HUMAN	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
SKSDPIMLLK	PDHA1; PDHA1	P08559; Q5JPU3	ODPA_HUMA	Oxidation (M)	1222600	995830	892080	0	0	27625	0	0	0
SKSESPKEPEQLR	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1_HUMA	Acetyl (Protein N-t	100610000	123030000	127860000	16854000	16992000	17516000	224530	183790	253380
SKSESPKEPEQLR	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1_HUMA	Acetyl (Protein N-t	8490800	10616000	11449000	1520200	1085500	804900	23253	27804	0
SKSESPKEPEQLRK	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1_HUMA	Acetyl (Protein N-t	128840000	128880000	159940000	27938000	30645000	27365000	473710	361540	409440
SKSESPKEPEQLRK	HNRNPA1; HNRNPA	P09651; F8VTQ5;	ROA1_HUMA	Acetyl (Protein N-t	5285500	10900000	8725400	814070	542570	707380	0	0	0
SKSFQQSSLSR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Acetyl (Protein N-t	0	0	1515300	0	543660	605080	21820	0	0
SKSLESQVENLQK	TPR	P12270	TPR_HUMAN	Unmodified	460520	511620	604610	0	0	23379	0	0	0
SKSVELEDVKFHQCVR	AP1M1; AP1M1; AP	Q9BXS5; K7EJL1	AP1M1_HUM	Unmodified	0	0	14028000	0	0	0	0	0	0
SKTDLPEEKPDATPQNPFLK	SH3PXD2B	A1X283	SPD2B_HUM	Unmodified	1596900	566220	1607600	0	0	0	0	0	0
SKTPEIYLAYR	SMARCC2; SMARC	Q8TAQ2; Q92922	SMRC2_HUM	Unmodified	1020200	864790	1352300	0	0	0	0	0	0
SKVDEAVAVLQAHQAK	PABPC1; PABPC3; P	P11940; Q9H361;	PABP1_HUM	Unmodified	11222000	14478000	17057000	0	0	0	0	0	0
SKVDEAVAVLQAHQAKEAAQK	PABPC1; PABPC1; P	P11940; A0A087	PABP1_HUM	Unmodified	0	1570100	0	38850	0	0	0	0	0
SKVEETTEHLVTK	KIF11; KIF11	P52732; A0A7I2V	KIF11_HUMA	Unmodified	629760	762030	689710	0	0	0	0	0	0
SKYHPDEVGKR	SRRT	Q9BXP5	SRRT_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SKYTTPSGEVR	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL_HUMA	Unmodified	2573300	2013400	2236000	807450	916000	1087700	63522	15477	23099
SLAAALDILNTATR	FBXO30	Q8TB52	FBX30_HUM	Unmodified	776390	507930	698020	0	0	0	0	0	0
SLAAEEEAAR	PLEC	Q15149	PLEC_HUMA	Unmodified	3215300	4767200	3850900	295320	369380	290300	0	0	0
SLAAEWGK	DECR1	Q16698	DECR_HUMA	Unmodified	556640	451400	0	44305	0	66555	10325	0	0

SLADELALVDVLEDK	LDHB; LDHB; LDHE	P07195; A0A5F9Z	LDHB	HUM/	Unmodified	268070	0	83242	0	0	0	0	0	0
SLADELALVDVLEDKLK	LDHB; LDHB; LDHE	P07195; A0A5F9Z	LDHB	HUM/	Unmodified	105810	0	0	0	0	0	0	0	0
SLADFEK	PSMD11	O00231	PSD11	HUM/	Unmodified	2218600	1982400	1850100	81416	80994	0	0	0	0
SLADIAREEASNFR	PSMA3; PSMA3	P25788; G3V4X5	PSA3	HUM/	Unmodified	8678500	5411800	2315900	0	0	0	0	0	0
SLADIAREEASNFR	PSMA3; PSMA3	P25788; G3V4X5	PSA3	HUM/	Deamidation (N)	3680900	1317700	3442400	0	0	0	0	0	0
SLADLFR	TACC2; TACC2; TA	O95359; Q4V5L8	TACC2	HUM	Unmodified	0	292790	281070	0	0	0	0	0	0
SLAEANNLSFPLEPLSR	CCNY	Q8ND76	CCNY	HUM/	Deamidation (N)	0	406200	352070	0	0	0	0	0	0
SLAEGYFDAAGR	LANCL1; LANCL1; I	O43813; E9PHS0;	LANC1	HUM	Unmodified	6851300	7923000	7873500	54838	61860	135500	0	0	0
SLAEGYFDAAGRLLTPEFSQR	LANCL1; LANCL1; I	O43813; E9PHS0;	LANC1	HUM	Unmodified	943900	0	1110400	0	0	0	0	0	0
SLAEHRTPDVLKK	STIP1	P31948	STIP1	HUM	Unmodified	1276000	1069200	0	0	0	34404	0	0	0
SLAESGLSWFSESEEKAPK	NAV1; NAV1; NAV1	Q8NEY1; A0A0A	NAV1	HUM	Unmodified	2263300	1903500	945540	0	0	0	0	0	0
SLAGSSGPGASSGTSGDHGELVVR	EEF1D; EEF1D; EEF	P29692; E9PMW7	EF1D	HUM	Unmodified	36243000	39535000	45641000	674040	728260	694200	0	38688	0
SLAMEMVLTGDR	ECHS1	P30084	ECHM	HUM/	Oxidation (M)	4671200	0	5466300	345830	371770	443820	0	33320	0
SLAMEMVLTGDRISAQDAK	ECHS1	P30084	ECHM	HUM/	Oxidation (M)	12210000	12546000	11854000	964860	958150	1020400	164390	90630	69562
SLAMLGSSEDNTALSR	SNX1; SNX1	Q13596; H0YK42	SNX1	HUMA	Oxidation (M)	1247800	1412400	1868500	25772	15795	20197	0	0	0
SLANAESQQQREQLER	GPN1	Q9HCN4	GPN1	HUMA	Unmodified	611070	361200	298240	31718	64654	43200	0	0	0
SLAQAEAEKQKEEAEREAR	PLEC	Q15149	PLEC	HUMA	Unmodified	2130700	2223000	3807800	188550	301760	452940	0	0	0
SLAQREAEYAEAR	SZRD1	Q7Z422	SZRD1	HUM	Unmodified	158630	126310	157790	47502	42679	40831	0	0	0
SLASVSYAAVDFFRPSAQR	DDX50	Q9BQ39	DDX50	HUM	Unmodified	2176400	1257400	1320100	0	0	0	0	0	0
SLASYGLKDGDVVILR	DDI2	Q5TDH0	DDI2	HUMA	Unmodified	509290	751050	1193000	0	0	0	0	0	0
SLATTRPTVNADDLLK	VPS4A	Q9UN37	VPS4A	HUM	Unmodified	2541700	2302800	2476900	0	0	134550	33258	34051	0
SLATWENENKIHCTQTLLEGDGPK	CRABP1	P29762	RABP1	HUM	Unmodified	2946200	3029500	2783000	0	0	0	0	0	0
SLATWENENKIHCTQTLLEGDGPK	CRABP1	P29762	RABP1	HUM	Deamidation (N)	666110	786130	602800	0	0	0	0	0	0
SLAVSGLGVIGR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	4961600	5294500	5666900	112540	71928	76799	0	0	0
SLAVSGLGVIGRDR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	1385300	1229100	1481500	39886	31237	32310	0	0	0
SLCIPFKPLCELQPGAK	EPRS1	P07814	SYEP	HUMA	Unmodified	725400	627800	794340	0	0	0	17605	0	0
SLDEISQPAQELK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3	HUM	Unmodified	983650	652780	860880	27435	38550	45862	0	0	0
SLDEISQPAQELKR	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3	HUM	Unmodified	3674800	3163500	5539000	209590	277000	282810	0	112040	123790
SLDEMEK	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUMA	Oxidation (M)	316310	0	3496900	0	0	0	0	0	0
SLDEMEKQQR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUMA	Oxidation (M)	8904900	8864900	9205000	404920	632350	618850	0	0	0
SLDEVYPDPVR	AARS2	Q5JTZ9	SYAM	HUM	Unmodified	992330	1538200	1134900	0	0	86690	0	0	0
SLDFYTR	GLO1	Q04760	LGUL	HUMA	Unmodified	20126000	17384000	17519000	455520	0	0	96983	0	109390
SLDIQVPNFPADETK	QARS1; QARS1; QA	P47897; H7C0R3;	SYQ	HUMA	Unmodified	283660	161330	545160	11381	0	0	0	0	0
SLDIVCKPVPFFLR	MRPL15; MRPL15	Q9P015; E5RIZ4	RM15	HUMA	Unmodified	1589800	1614900	1545700	0	0	0	0	0	0
SLDKDPLLLSGTHVMEGSGR	ATP2B1	P20020	AT2B1	HUM	Oxidation (M)	0	0	638940	180130	128250	107900	0	0	0
SLDLDISK	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUMA	Unmodified	13720000	11088000	11002000	110510	77341	84078	0	0	0
SLDLDISKTNVNGGAIALGHPLGGSGSR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUMA	Deamidation (N)	6137900	9735300	3897800	0	0	0	0	0	0
SLDLDSIIAEVKAQYEDIAQK	KRT1	P04264	K2C1	HUMA	Unmodified	1574100	0	50601	0	0	0	0	0	0
SLDLDSIIAEVKAQYEDIAQKSK	KRT1	P04264	K2C1	HUMA	Unmodified	111320	0	0	0	0	0	0	0	0
SLDLIESLLR	CNOT1	A5YKK6	CNOT1	HUM	Unmodified	279500	141910	484510	0	0	0	0	0	0
SLDPADERDDVLAK	GATAD2B; GATAD2	Q8WXI9; A0A0U1	P66B	HUMA	Unmodified	1231100	936960	1146700	34697	40744	40100	0	0	0
SLDPADERDDVLAKR	GATAD2B; GATAD2	Q8WXI9; A0A0U1	P66B	HUMA	Unmodified	1126600	1208300	726580	57022	0	0	0	0	0
SLDPENSETELER	SHTN1	A0MZ66	SHOT1	HUM	Deamidation (N)	5473200	6802500	6330100	148540	229890	125260	0	0	0
SLDPENSETELER	SHTN1	A0MZ66	SHOT1	HUM	Unmodified	2057600	1717600	1914300	0	0	0	0	0	0
SLDPSRPVTFVSNSNYAADK	GUSB	P08236	BGLR	HUMA	Deamidation (N)	0	974620	725080	0	0	0	0	0	0
SLDQDPVVR	HSPH1; HSPH1; HSP	Q92598; Q5TBM3	HS105	HUM/	Unmodified	0	0	3845000	0	0	108430	0	0	20738
SLDSSTPLPIVR	URB2	Q14146	URB2	HUMA	Unmodified	0	766770	0	0	0	0	0	0	0
SLDYEALQAFEFR	PCDHB8; PCDHB2;	Q9UN66; Q9Y5E7	PCDB8	HUM	Unmodified	122160	122950	139790	0	0	0	0	0	0
SLDYEALQGFQFR	PCDHB12; PCDHB1	Q9Y5F1; Q9Y5F0	PCDBC	HUM	Unmodified	207320	0	166250	0	0	0	0	0	0
SLEAEGFQVTYLPVQK	NFS1; NFS1	Q9Y697; F2Z2E7	NFS1	HUMA	Unmodified	1409400	2192200	1688600	25696	26435	27727	0	0	0
SLEAEILQLQEELASSER	MYH10	P35580	MYH10	HUM	Unmodified	544290	0	200130	0	0	0	0	0	0
SLEAQVAHADQQLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	4152200	3255700	3850900	142420	148090	114840	0	0	0
SLEAQVAHADQQLRDLGKFQVATDALK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	3319200	1188600	2255300	0	0	0	0	0	0
SLEATLGR	MRPS31	Q92665	RT31	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SLEDALAEAQR	SMC2	O95347	SMC2	HUMA	Unmodified	1635600	1775800	1518900	0	27790	0	0	0	0
SLEDALAEAQRVNTK	SMC2	O95347	SMC2	HUMA	Unmodified	1056100	1093800	0	0	0	0	0	0	0
SLEDALR	IMMT; IMMT; IMMT	Q16891; A0A087	MIC60	HUM	Unmodified	5108700	4117100	5083900	0	36102	42811	0	0	0
SLEDDIR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4	HUM	Unmodified	1907000	1748500	2088500	134670	135540	182850	0	0	0
SLEDDIRSDTSFMFQR	ANXA4; ANXA4; AN	P09525; B4E1S2;	ANXA4	HUM	Oxidation (M)	0	0	2362700	11496	0	15484	19075	0	0
SLEDLKLKNTKIEVLEEELR	DSP	P15924	DESP	HUMA	Unmodified	759660	647140	933780	43369	0	0	0	0	0
SLEDLQLTINK	LUM	P51884	LUM	HUMA	Unmodified	751890	904790	953660	30405	48056	49923	0	0	0
SLEDLQLTINKITK	LUM	P51884	LUM	HUMA	Unmodified	2018200	2259300	741150	285490	446260	148820	114250	0	35912
SLEDPYSQQIR	INTS7; INTS7	Q9NVH2; A0A087	INT7	HUMA	Unmodified	0	922870	1063200	0	0	0	0	0	0
SLEDQVEMLR	PRKCSH; PRKCSH	P14314; K7ELL7	GLU2B	HUM	Oxidation (M)	45314000	38976000	43151000	1379000	985240	1327900	0	20580	0
SLEEEKAAVTEAVR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM	HUM/	Unmodified	2355100	3059400	2334900	0	0	0	0	0	0
SLEEEKYDMSGAR	CASP14	P31944	CASPE	HUM	Oxidation (M)	0	181740	0	138420	0	107670	0	0	0
SLEEIYLFSLPIK	RPS2; RPS2; RPS2; F	P15880; E9PPT0;	RS2	HUMA	Unmodified	77525	49469	90831	0	0	0	0	0	0
SLEELLLDANQLR	SCRIB; LRRC1; SCR	Q14160; Q9BTT6	SCRIB	HUM/	Unmodified	1566800	1222700	321740	0	0	0	0	0	0
SLEELRLEDYQANR	NUP98; NUP98	P52948; A0A3B3I	NUP98	HUM	Unmodified	1370600	1346800	1921000	70975	62095	58484	11445	0	0
SLEEQLSAYMENKIHVK	N/A	N/A	N/A		Oxidation (M)	254380	0	0	0	0	0	0	0	0
SLEFSER	PRKAR2B	P31323	KAP3	HUMA	Unmodified	1139100	868290	1040600	57078	0	73257	0	0	0
SLEGADLPNLLFYGPPGTGK	RFC4; RFC4; RFC4;	P35249; C9J8M3;	RFC4	HUMA	Unmodified	1619900	1596600	1389300	0	0	0	0	0	0
SLEGTEAQVFK	FLII	Q13045	FLII	HUMA	Unmodified	1527800	0	2081400	184060	184000	0	0	0	0
SLEGTEAQVFKAK	FLII	Q13045	FLII	HUMA	Unmodified	630520	441750	622000	104620	0	121780	28311	32485	29252
SLEIEEK	PPP2R2C; PPP2R2A;	Q9Y2T4; P63151;	2ABG	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SLEIQKPAVAPR	PRRC2A	P48634	PRC2A	HUM	Unmodified	1956800	1023900	1529900	0	111420	0	0	0	0
SLELIPLTAR	RALGAPA2; RALGA	Q2PPJ7; H7C1F9	RGPA2	HUM	Unmodified	636770	857360	1009800	38205	46144	38524	16671	12965	12999
SLELNGAVEPSEGAPR	STRN4; STRN4; STR	Q9NRL3; R4GNI4	STRN4	HUM	Deamidation (N)	1136300	0	599550	0	0	37003	0	0	0
SLELYRELDLNSVLLK	RNASET2; N/A; RNA	O00584; H0YAE9	RNT2	HUMA	Deamidation (N)	262660	0	245760	0	0	0	0	0	0
SLELYRELDLNSVLLK	RNASET2; N/A; RNA	O00584; H0YAE9	RNT2	HUMA	Unmodified	363910	0	0	0	0	0	0	0	0
SLENAIEWSVK	PPME1	Q9Y570	PPME1	HUM	Unmodified	1986600	2025400	1769500	0	0	0	0	0	12681
SLEPGTPR	GALK1; GALK1; GA	P51570; K7ERN9;	GALK1	HUM	Unmodified	392040	1384200	1329000	61363	58304	0	0	0	0
SLEPLPSSGPDFGGLGEEAEFVEVEPEAK	SAMM50	Q9Y512	SAM50	HUM	Unmodified	0	0	716800	0	0	0	0	0	0
SLEQDALR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	0	0	3827100	91528	80798	68291	0	0	0
SLEQLQK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	4068000	2302000	2738500	80017	87289	90924	0	0	0
SLEQNIQLPAALLSR	MCM7	P33993	MCM7	HUM	Unmodified	24838000	21253000	18178000	0	7621.8	13246	0	0	0
SLEQNIQLPAALLSR	MCM7	P33993	MCM7	HUM	Deamidation (N)	2501900	1156800	980340	0	0	0	0	0	0
SLERAEAGDNLGALVR	TUFM	P49411	EFTU	HUMA	Unmodified	11686000	10010000	9984100	133630	181070	167210	19865	10010	12349
SLERAEAGDNLGALVR	TUFM	P49411	EFTU	HUMA	Deamidation (N)	682930	447760	641370	0	0	0	0	0	0
SLESINSR	RPL30; RPL30; RPL:	P62888; A0A0C4I	RL30	HUMA	Deamidation (N)	655720	1369400	576020	0	15000	0	0	0	0
SLESINSR	RPL30; RPL30; RPL:	P62888; A0A0C4I	RL30	HUMA	Unmodified	2359000	2059600	2520200	0	50337	0	0	0	0
SLESINSRLQLVMK	RPL30; RPL30; RPL:	P62888; A0A0C4I	RL30	HUMA	Oxidation (M);Deai	954810	0	802980	0	0	0	0	0	0
SLESLDTSLFAK	SF3A3	Q12874	SF3A3	HUM	Unmodified	4252300	2482800	3641400	79875	61277	42493	0	14781	0
SLESLHSFVAAATK	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	2508300	2058900	1965900	11515	0	0	0	0	0
SLESNPEQLQAMR	MOV10; MOV10	Q9HCE1; Q5JR04	MOV10	HUM	Oxidation (M)	2265800	1009700	831740	0	0	74115	0	0	0
SLESQVENLQK	TPR	P12270	TPR	HUMA	Unmodified	1121800	1333700	1283100	0	54311	71771	0	0	0
SLETEHK	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	0	124460	0	284170	289940	0	0	0	0
SLETEHKALTSEIALLQSR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Methyl (KR)	2050400	1217500	494100	0	0	0	0	0	0
SLETEHKALTSEIALLQSR	RPN1; RPN1	P04843; B7Z4L4	RPN1	HUMA	Unmodified	2905900	2022200	1865600	0	0	0	27190	0	0
SLETENAGLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	17878000	15493000	13320000	1444200	1403800	1434100	27626	28804	0
SLETENAGLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	6295600	1482000	2355700	50011	0	0	0	0	0
SLETENAGLRLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Deamidation (N)	4869600	5886000	5392700	528810	523580	301990	28674	159020	28028
SLETENAGLRLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	4390500	2894900	3792600	1052600	1046600	1200000	278600	134010	0
SLETENR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	0	0	8855600	2318000	0	5002400	0	0	0
SLETENSALQLQVTER	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Deamidation (N)	675740	0	549600	0	0	0	0	0	0
SLETENSALQLQVTER	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	0	633840	0	0	0	0	0	0	0
SLETENSALQLQVTEREEVR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Unmodified	1946100	1895300	2513600	0	0	0	0	0	0
SLETENSALQLQVTEREEVR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Deamidation (N)	1154000	1157800	0	0	0	0	0	44029	0
SLETSAFVK	SCPEP1; SCPEP1	Q9HB40; I3L4Z9	RISC	HUMA	Unmodified	7716600	8145000	6434900	139000	108550	121810	0	0	0
SLETVYLER	PPP1R7; PPP1R7; PI	Q15435; H7C3Q5	PP1R7	HUM	Unmodified	4313500	3202300	1992400	124890	90231	0	0	25621	0
SLETVYLERNPLQK	PPP1R7; PPP1R7; PI	Q15435; H7C3Q5	PP1R7	HUM	Unmodified	2727700	2973000	3296400	84559	52268	51943	0	0	0
SLETVYLERNPLQKDPQYR	PPP1R7; PPP1R7; PI	Q15435; H7C3Q5	PP1R7	HUM	Deamidation (N)	19214000	0	0	0	0	0	0	0	0
SLEVILR	MCM6	Q14566	MCM6	HUM	Unmodified	2715200	2760200	2546600	21344	29585	0	0	0	0
SLFDQAESSYR	EEF1D; EEF1D; EEF	E9PJV8; E9PRL0;	E9PJV8	HUM	Unmodified	703910	747320	657220	0	0	0	0	0	0
SLFEQYGK	RBM4; RBM4B; RB	Q9BWF3; Q9BQ0	RBM4	HUM	Unmodified	2052700	2123900	0	0	26473	0	0	0	0
SLFFGSILAPVR	RAD9A	Q99638	RAD9A	HUM	Unmodified	797450	837810	984530	0	0	0	0	0	0
SLFGQLHPPDEGHGD	AATF; AATF; AATF	Q9NY61; A0A087	AATF	HUM	Unmodified	889140	646350	853750	71994	0	59007	0	8615.3	0
SLFPEGNPAK	MYO1B; MYO1B	O43795; E9PDF6	MYO1B	HUM	Unmodified	1973400	1510200	1528600	0	0	38446	0	0	0
SLFSDKQMIK	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4	HUM	Oxidation (M)	3906800	4079800	4491600	27601	0	18815	0	0	0
SLFSNVVTK	ATIC; ATIC	P31939; H7C1S2	PUR9	HUMA	Unmodified	4169100	2516300	3092300	32857	42975	33912	0	0	0
SLFSPQNTLAAPTGHPPTSGVEK	RPRD2	Q5VT52	RPRD2	HUM	Deamidation (N)	632380	938380	638040	0	30178	18899	0	0	0
SLFSSIGEVESAK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Unmodified	30664000	28682000	28233000	181310	160300	65298	0	0	0
SLFSSIGEVESAKLIR	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Unmodified	1929900	1585700	2013500	0	0	0	0	0	0
SLFSSIGEVESAKLIR	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Methyl (KR)	0	748350	0	0	0	0	0	0	0
SLGAEHVITEEEELR	MECR; MECR	Q9BV79; H3BM3	MECR	HUM	Unmodified	982870	1152400	1393200	51245	0	0	0	0	0
SLGAEPLEVDLK	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM	Unmodified	3126100	3675000	3082300	0	0	0	0	0	0
SLGAEPLEVDLKESGEGQGGYAK	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM	Unmodified	3699300	4199800	0	0	0	0	0	0	0
SLGDDISSETSGDFRK	ANXA3; ANXA3; AN	P12429; D6RA82;	ANXA3	HUM	Unmodified	0	0	649740	100380	105320	0	0	43282	0
SLGEIPIVESEIK	COPB1	P53618	COPB	HUMA	Unmodified	1545900	1723000	1668700	37776	30837	21558	0	0	0
SLGEIPIVESEIKK	COPB1	P53618	COPB	HUMA	Unmodified	3331500	3508600	4785900	200080	178570	112450	55941	0	0
SLGEISALTSK	VCL	P18206	VINC	HUMA	Unmodified	3906400	4095700	4013300	30761	0	59813	0	0	0
SLGELYFLPR	MARS2	Q96GW9	SYMM	HUM	Unmodified	1161500	1994400	1179200	8797.9	0	0	0	0	0

SLGETQLVLYGDVEELKR	CKAP4	Q07065	CKAP4_HUM	Unmodified	3141300	1529700	2532400	0	0	0	19990	0	0
SLGGESSGGTTPVGSFHTEAAR	ARHGEF11	O15085	ARHGB_HUM	Unmodified	667390	556880	634750	0	0	0	0	0	0
SLGGQAVQIR	SCIN	Q9Y6U3	ADSV_HUM	Unmodified	38699000	29682000	30562000	521080	619110	724540	0	0	0
SLGKGSAPPGPVPEGSIR	GSTO1	P78417	GSTO1_HUM	Unmodified	1548900	850360	1489900	124330	118540	131260	0	35653	0
SLGLQLPDGQRR	PFAS	O15067	PUR4_HUM	Unmodified	1553000	960510	1461300	0	23351	41216	0	0	0
SLGLSLSGGDQEDAGR	NAGK; NAGK; NAG	Q9UJ70; C9JEV6;	NAGK_HUM	Unmodified	0	1016500	890000	0	0	0	0	0	0
SLGNIKFIGELFK	EIF4G1; EIF4G1; EIF	Q04637; C9JF13;	IF4G1_HUM	Unmodified	778920	763290	1227800	0	0	0	0	0	0
SLGNVIHPDVVVNGGQDQSK	IARS2	Q9NSE4	SYIM_HUM	Deamidation (N)	2728100	1625200	1480500	0	0	0	0	0	0
SLGNVIHPDVVVNGGQDQSKEPPYGADVLR	IARS2	Q9NSE4	SYIM_HUM	Deamidation (N)	3231300	3628100	2986300	0	0	0	0	0	0
SLGPPQGEEDSVPR	PRKDC	P78527	PRKDC_HUM	Unmodified	10177000	10867000	9120300	428400	286080	231990	0	0	26146
SLGPPQGEEDSVPRDLPSWMK	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	1267900	1976600	2650200	0	0	0	0	0	0
SLGPSLATDK	TMX1	Q9H3N1	TMX1_HUM	Unmodified	1314700	1136300	0	0	0	0	0	36409	0
SLGPSLATDKS	TMX1	Q9H3N1	TMX1_HUM	Unmodified	16915000	15075000	13226000	2594500	2467300	3022800	1164200	1209000	1305100
SLGPVELLLR	PKN1; PKN1; PKN1	Q16512; K7EM57	PKN1_HUM	Unmodified	2751100	2750200	3099000	0	0	0	0	0	0
SLGQNPTEAELR	CALML3	P27482	CALL3_HUM	Unmodified	8727600	8678000	7967400	0	0	0	0	0	0
SLGQNPTEAELRDMMSEIDRDGNGTVDFPEFLGMMAR	CALML3	P27482	CALL3_HUM	4 Oxidation (M);De	9723600	0	5448000	0	0	0	0	0	0
SLGSASPGPGQPPLSSPTR	ZDHHC5	Q9C0B5	ZDHC5_HUM	Unmodified	469100	438050	527880	91491	142560	0	0	0	0
SLGSSDLKF	HIBCH; HIBCH; HIB	Q6NVY1; B9A05	HIBCH_HUM	Unmodified	3137700	2913000	2283900	524290	555500	577710	0	0	0
SLGSVQAPSYGAR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	9814600	12098000	11851000	2445700	2236400	2303300	228300	0	217960
SLGTADVHFER	ALYREF; ALYREF	Q86V81; E9PB61	THOC4_HUM	Unmodified	46570000	45380000	49744000	2636900	2076700	2316400	143190	193320	121820
SLGTDLMNEMR	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUM	2 Oxidation (M)	1665100	1173200	2357300	33251	0	47040	0	0	0
SLGTDLMNEMR	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUM	2 Oxidation (M);De	489710	465490	671870	0	0	0	0	0	0
SLGTDLMNEMRR	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUM	2 Oxidation (M)	3229800	2672000	3445600	0	188700	0	0	0	0
SLGTDLMNEMRR	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUM	2 Oxidation (M);De	1068900	1145800	1008800	45708	0	47927	0	0	0
SLGTDLMNEMRR	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUM	2 Oxidation (M);M	0	0	0	155980	174190	151120	323570	514630	0
SLGTGAPVIESPYGETISPEDAPESISK	CSTF2; CSTF2; CSTI	P33240; E7EWR4	CSTF2_HUM	Unmodified	7126000	8630500	6352200	0	0	0	0	0	0
SLGVDMDDKDDAHYAVQAR	GTPBP4	Q9BZE4	GTPB4_HUM	Oxidation (M)	377050	0	1044200	0	0	0	0	0	0
SLGVESDVQPQKHVQQR	STON1; STON1-GTF	Q9Y6Q2; Q53S48	STON1_HUM	Unmodified	0	0	0	254940	0	210990	0	0	0
SLGVGYAAVDNPIFYKPNTAMLLGDAK	NNT; NNT; NNT	Q13423; E9PCX7;	NNTM_HUM	Oxidation (M)	2689700	2750200	2269100	0	0	0	0	0	0
SLGYAYVNFQQPADAER	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	Deamidation (N)	6944000	0	5960000	0	0	182010	36182	29393	28765
SLGYAYVNFQQPADAER	PABPC4; PABPC1; P	Q13310; P11940;	PABP4_HUM	Unmodified	10098000	9294800	10197000	0	0	268570	64927	0	0
SLGYTGAR	TSTD1; TSTD1	Q8NFU3; R4GNF	TSTD1_HUM	Unmodified	10303000	12542000	16755000	2699900	2610700	2895500	226990	223400	235060
SLHDAIMIVR	CCT7	Q99832	TCPH_HUM	Oxidation (M)	1643800	1542400	1608200	0	0	28461	0	0	0
SLHDALCVVKR	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA_HUM	Unmodified	359440	353790	421900	0	0	0	0	0	0
SLHDPDGLVATYISEVHEHDGHLYLGSFR	APMAP; APMAP	Q9HDC9; H0Y5I2	APMAP_HUM	Unmodified	1726600	171200	297500	0	0	0	0	0	0
SLHEAELLQSDER	CEP131; CEP131; CE	Q9UPN4; I3L2J8;	CP131_HUM	Unmodified	0	821350	961960	0	32392	22925	0	0	0
SLHSAGPPLLAVTAAPPAQPLAK	BRD2; BRD2; BRD2;	P25440; H0Y799;	BRD2_HUM	Unmodified	1720800	1447600	1660700	47973	19947	22361	0	0	0
SLICSISNEVPEHPCVSPVSNHVYER	PRPF19; PRPF19	Q9UMS4; F5GY5	PRP19_HUM	Acetyl (Protein N-t	1631700	681410	789260	0	0	0	0	0	0
SLICSISNEVPEHPCVSPVSNHVYERR	PRPF19; PRPF19	Q9UMS4; F5GY5	PRP19_HUM	Acetyl (Protein N-t	1199200	791660	0	0	0	0	0	0	0
SLIEEGGDWDRR	PSMD6; PSMD6; PSI	Q15008; H7C531;	PSMD6_HUM	Unmodified	1828900	1625300	1765200	42392	32572	26929	0	0	0
SLIEPISMIVPR	CORO2A	Q92828	COR2A_HUM	Oxidation (M)	4888700	3891900	5251600	0	0	0	0	0	0
SLIEVYMRPLSNK	NAGA	P17050	NAGAB_HUM	Oxidation (M)	279370	446390	291440	0	0	0	0	0	0
SLIIDEGEDDLGR	CCS; CCS; CCS	O14618; J3KNF4;	CCS_HUMAN	Unmodified	1234900	1095800	1033300	62624	42628	50734	0	0	0
SLIIDEGEDDLGRGGHPLSK	CCS; CCS; CCS	O14618; J3KNF4;	CCS_HUMAN	Unmodified	6500400	5835700	5308200	203310	155500	106260	0	0	0
SLILDDR	TRIM9	Q9C026	TRIM9_HUM	Unmodified	774300	803110	1369100	0	0	0	0	0	0
SLISMDEINK	TSNAX; TSNAX; TSI	Q99598; Q5VVQ1	TSNAX_HUM	Oxidation (M)	444590	533400	486450	0	0	0	0	0	0
SLIVEGKR	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK_HUMAN	Unmodified	2241400	1731100	1574000	44765	35010	51813	0	0	0
SLKADLQK	BCAP31	P51572	BAP31_HUM	Unmodified	1538100	1148400	1247400	113640	80438	64176	15194	0	14628
SLKAYGELPEHAK	EIF1AY; EIF1AX; EI	O14602; P47813;	IF1AY_HUM	Unmodified	2050900	1833500	2411800	275070	177190	0	0	20037	0
SLKDMEESIR	PRKCSH; PRKCSH;	P14314; K7ELL7;	GLU2B_HUM	Oxidation (M)	26706000	24885000	26656000	1140300	1164500	983810	0	0	12978
SLKDRGFELTFK	DDOST; DDOST; DD	P39656; U3KQ84;	OST48_HUM	Unmodified	505000	514710	552890	0	0	0	0	0	0
SLKEQAIKITNLTQQLEQASIVK	DSP	P15924	DESP_HUM	Unmodified	1031300	1301800	1443300	0	0	0	0	0	0
SLKFYSL	PRPF19; PRPF19	Q9UMS4; H0YGZ	PRP19_HUM	Unmodified	14013000	5056000	7505400	1520300	1215400	1333600	573540	509320	503030
SLKLQASNVTNKNDPK	RALY; RALY; RALY	Q9UKM9; Q5QPA	RALY_HUM	Acetyl (Protein N-t	2156900	1722400	2115900	774560	994470	680300	102020	122120	123320
SLKLQASNVTNKNDPK	RALY; RALY; RALY	Q9UKM9; Q5QPA	RALY_HUM	Acetyl (Protein N-t	912600	1580500	2819000	517290	477300	455270	0	24572	0
SLKPGALSNSESIPTIDGLR	STAMBP; STAMBP	O95630; C9JK83	STABP_HUM	Deamidation (N)	1778500	627950	1076800	20388	0	0	0	0	0
SLKSLDPENSETELER	SHTN1	A0MZ66	SHOT1_HUM	Deamidation (N)	512720	579580	636600	85636	70385	85330	0	0	0
SLLDASEEAIKK	VCL	P18206	VINC_HUM	Unmodified	783240	937940	946560	115960	146590	161250	0	0	0
SLLDFLPR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	226790	263390	391660	0	0	0	0	0	0
SLLDGEGPQAVGGQDVAFSR	SH3PXD2B	A1X283	SPD2B_HUM	Unmodified	996600	545800	993690	19262	0	9925.7	0	16844	16962
SLLEGLLQR	GRK3; GRK2	P35626; P25098	ARBK2_HUM	Unmodified	627350	430110	0	0	0	0	0	0	0
SLLEIQQEEAR	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2_HUM	Unmodified	1094000	1013000	852080	0	0	35293	0	0	0
SLLELAR	NASP; NASP; NASP;	P49321; E9PB6;	NASP_HUM	Unmodified	0	0	0	0	0	0	0	0	0
SLLEPFVYLASK	NKIRAS2; NKIRAS2;	Q9NYR9; K7ERG	KBRS2_HUM	Unmodified	2303600	1556700	2151900	0	0	0	0	0	0
SLLEQYHLGLDQK	GUSB	P08236	BGLR_HUM	Unmodified	2244000	2067300	2021100	12094	0	11940	0	0	0
SLLEQYHLGLDQKR	GUSB	P08236	BGLR_HUM	Unmodified	2929900	3035100	3655600	0	0	0	0	0	0
SLLESTYQR	SIN3A	Q96ST3	SIN3A_HUM	Unmodified	4797400	2383300	2934400	287220	167980	165170	0	20356	34351
SLLGDSAPTLHLNK	AGFG1; AGFG1; AG	P52594; B8ZZY2;	AGFG1_HUM	Unmodified	1265200	1072000	1204500	0	0	0	0	0	0
SLLGKDVLFLK	PGK1; PGK2	P00558; P07205	PGK1_HUM	Unmodified	12149000	8612000	9238700	0	0	0	0	0	0
SLLGKDVLFLKDCVGPEVEK	PGK1	P00558	PGK1_HUM	Unmodified	9883600	5507000	8358000	0	0	0	0	0	0
SLLKEEDPAVLISEVLR	MTFR1L; MTFR1L	Q9H019; E9PLD2	MFR1L_HUM	Unmodified	702760	254170	858570	0	0	0	0	0	0
SLLKEEDPAVLISEVLRR	MTFR1L; MTFR1L	Q9H019; E9PLD2	MFR1L_HUM	Unmodified	379790	0	402030	0	0	0	0	0	0
SLLKNSPRNQQK	ZCCHC8	Q6NZY4	ZCHC8_HUM	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
SLLLSVNAR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Deamidation (N)	13627000	11198000	11260000	137590	167120	217790	20402	19388	15603
SLLLSVNAR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	Unmodified	8249700	7561100	9131200	270060	207190	228430	32455	31303	31902
SLLMSVGPIQSLQMLPQQR	RBM33; RBM33; RB	Q96EV2; A0A0C4	RBM33_HUM	2 Oxidation (M)	1583000	2918000	2109900	0	0	0	0	0	0
SLLNKPKSEMTPEELQK	SNRPD2; SNRPD2	P62316; K7ERG4	SMD2_HUM	Acetyl (Protein N-t	900090	828210	732180	0	350170	0	0	0	0
SLLNRYAVEGR	SSR2; SSR2; SSR2; S	P43308; E9PNP2;	SSRB_HUM	Deamidation (N)	341590	968590	1063300	22959	19988	80047	0	0	0
SLLNRYAVEGR	SSR2; SSR2; SSR2; S	P43308; E9PNP2;	SSRB_HUM	Unmodified	0	0	0	91034	107910	173490	12768	20798	0
SLLPLSTSLDHR	GEMIN5	Q8TEQ6	GEMI5_HUM	Unmodified	836950	642120	600720	0	71115	0	0	0	0
SLLQALNEVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	813470	1102100	1025600	0	0	0	0	0	0
SLLSAEEAAK	SND1	Q7KZF4	SND1_HUM	Unmodified	3581800	4443400	3766600	0	225050	267500	0	0	0
SLLSNLDEVKK	PDCD6IP	Q8WUM4	PDC6I_HUM	Unmodified	962650	1029600	903760	0	0	0	0	0	0
SLLTQLRAEDLNIAPR	ADO	Q96SZ5	AEDO_HUM	Unmodified	832680	499030	514330	0	0	0	0	0	0
SLLTYGR	UQCRC1	P31930	QCR1_HUM	Unmodified	17989000	20612000	17425000	1393400	1607100	1540400	153960	47629	141610
SLLVIPNTLAVNAAQDSTDLVAK	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA_HUM	Deamidation (N)	1750000	983400	485830	0	0	0	0	0	0
SLLVIPNTLAVNAAQDSTDLVAK	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA_HUM	Unmodified	1812900	909940	1522200	0	0	0	0	0	0
SLLVNPEGPTLMR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Oxidation (M)	4758500	2803400	3809700	333940	260080	223580	38111	38853	22321
SLLVPDHVITR	AK4; AK4	P27144; F8VS11	KAD4_HUM	Unmodified	3979000	3675400	3881700	79661	80614	69083	0	0	0
SLLVTELGSSR	IMPA1; IMPA1; IMP	P29218; E5RG13;	IMPA1_HUM	Unmodified	16196000	11827000	12376000	132300	171780	156690	0	0	0
SLLVTELGSSRTPETVR	IMPA1; IMPA1; IMP	P29218; E5RG13;	IMPA1_HUM	Unmodified	10534000	10098000	9203400	93105	63289	95725	8820.8	0	0
SLMEQDVKENEALLLR	FERMT2; FERMT2; I	Q96AC1; A0A0U1	FERM2_HUM	Oxidation (M)	3484900	2728400	2893900	125650	91122	78403	41995	0	32961
SLMPYFLLTQAVR	PSMD3	O43242	PSMD3_HUM	Oxidation (M)	4315700	3794700	4117700	0	0	0	0	0	0
SLMQKGQQMLARCPK	DST; DST; DST; DST	Q03001; A0A7P0	DYST_HUMA	2 Oxidation (M);2 I	0	1561700	0	0	0	0	0	0	0
SLMSADNVR	DHX15	O43143	DHX15_HUM	Oxidation (M)	5498700	4043600	4703600	83684	0	0	0	0	37006
SLMYSAQK	PLCG1	P19174	PLCG1_HUM	Oxidation (M)	483180	651020	0	0	0	0	0	0	0
SLNDITAK	ATP5PO; ATP5PO; N	P48047; A0A494	ATPO_HUMA	Deamidation (N)	2647600	930780	0	0	43315	0	0	0	0
SLNDITAK	ATP5PO; ATP5PO; N	P48047; A0A494	ATPO_HUMA	Unmodified	1232400	0	1061300	0	0	0	0	0	0
SLNDPRDSQKNFVDPVTK	DSP	P15924	DESP_HUM	Unmodified	910060	0	572920	38484	44237	40285	0	0	0
SLNESKIEIER	DSP	P15924	DESP_HUM	Unmodified	3465500	3318400	3362100	92123	81166	75798	0	0	0
SLNESKIEIER	DSP	P15924	DESP_HUM	Deamidation (N)	720940	769920	729210	0	12859	11715	0	0	0
SLNILTAFQK	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Unmodified	74057000	69891000	67472000	1195200	1150200	965390	345680	317920	321600
SLNILTAFQK	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Deamidation (N)	715540	1771800	2129400	22634	9345.6	20789	0	0	0
SLNILTAFQKK	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Unmodified	13730000	12269000	9018900	311340	258620	188330	0	0	0
SLNILTAFQKK	ERP29; ERP29	P30040; F8VY02	ERP29_HUM	Methyl (KR)	1075500	1500500	993230	11898	16413	0	0	0	0
SLNPPLTIVR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC_HUM	Unmodified	3288900	5814100	1506100	39919	35889	159430	0	0	0
SLNSDISYFGVGGK	SMCHD1	A6NHR9	SMHD1_HUM	Deamidation (N)	1154700	1198800	992960	0	0	0	0	0	0
SLNTDVLFGLLR	DHX38	Q92620	PRP16_HUM	Unmodified	1795700	1359700	1440200	0	0	0	0	73281	77700
SLPADILYEDQQCLVFR	HINT2	Q9BX68	HINT2_HUM	Unmodified	304550	0	0	0	0	0	0	0	0
SLPAEINR	LRRC40	Q9H9A6	LRC40_HUM	Unmodified	0	0	433060	0	0	0	0	0	0
SLPAGDALYSLSFNPPQPSR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2_HUM	Unmodified	1504500	0	1838300	0	0	0	0	0	0
SLPALIEQGEGFSQVLR	NSL1	Q96IY1	NSL1_HUMA	Unmodified	2112100	1461100	1647100	0	0	0	0	0	0
SLPAPWLSMAPVSWITPGLK	A1BG; A1BG	P04217; M0R009	A1BG_HUMA	Oxidation (M)	0	0	76174	0	0	0	0	0	0
SLPASLSFLVK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	1263100	1061500	1125400	0	0	0	0	0	0
SLPDFTELDLQGK	RFX1	P22670	RFX1_HUMA	Unmodified	1043800	1031900	1997800	0	0	0	0	0	0
SLPDLGLR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC_HUMAN	Unmodified	1366700	1640500	1258800	90443	91751	80349	5369.9	0	0
SLPDLGLRQENIR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC_HUMAN	Unmodified	3482900	3672200	3965500	198520	180300	144070	0	14661	21400
SLPDTELMKDTAR	MKI67	P46013	KI67_HUMA	Oxidation (M)	799360	0	0	0	0	0	0	0	0
SLPEEDVAEIQHAEEFLIKPESK	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1_HUM	Unmodified	3967800	3314300	3555100	0	0	0	0	0	0
SLPEEVVR	RNF40; RNF40	O75150; H3BP71	BRE1B_HUM	Unmodified	3605000	1869500	2422900	104350	122740	106070	0	0	0
SLPFSAR	TRAPPC1	Q9Y5R8	TPPC1_HUM	Unmodified	1143000	1185100	1097500	0	0	0	0	0	0
SLPFGAQSTQR	DPP7; DPP7; DPP7	Q9UHL4; R4GN0	DPP2_HUMA	Unmodified	1996400	2054700	2273400	271580	384240	296500	0	0	0
SLPGAEDYIKDLETK	CRTAP; CRTAP	O75718; C9JP16	CRTAP_HUM	Unmodified	1428100	1792100	2499300	0	0	0	0	0	0
SLPIVFDEFVDMDFGTGAVK	VARS1; VARS1	P26640; A0A140	SYVC_HUMA	Oxidation (M)	261770	114970	445650	0	0	0	0	0	0
SLPIYSPEKVEEYR	MYO1B; MYO1B; M	O43795; C9K0J9;	MYO1B_HUM	Unmodified	2944400	3240400	2485600	110920	60483	98961	0	0	17262
SLPLCLQLYAPGLSPDTIMECAMGDR	IFI30	P13284	GILT_HUMA	2 Oxidation (M)	474740	0	365850	0	0	0	0	0	0
SLPLLLSQAGVR	SGSH; SGSH; SGSH;	P51688; I3L2L4;	SPHM_HUM	Unmodified	1355900	1075700	916380	19514	22150	16155	0	0	0
SLPLNPKPFLNGLTGK	SNRPF; SNRPF; SNR	P62306; A0A0B4	RUXF_HUMA	Acetyl (Protein N-t	0	105660	0	0	0	0	0	0	0
SLPLNPKPFLNGLTGKPVMVK	SNRPF; SNRPF; SNR	P62306; A0A0B4	RUXF_HUMA	Acetyl (Protein N-t	41608000	45654000	43376000	57112	29788	13930	61017	0	0
SLPLNPKPFLNGLTGKPVMVK	SNRPF; SNRPF; SNR	P62306; A0A0B4	RUXF_HUMA	Acetyl (Protein N-t	4059400	3239700	3347000	0	0	0	0	0	0
SLPLSEGGPPLR	SPEN	Q96T58	MINT_HUMA	Unmodified	819220	695650	820040	0	28161	30929	0	0	0
SLPLVQVDEKGEK	LARP4B	Q92615	LAR4B_HUM	Unmodified	0	0	0	0	0	0	0	0	0

SLPPFIYR	ZCCHC8; ZCCHC8; ;	Q6NZY4; F5H6J5	ZCHC8	HUM	Unmodified	1118800	971110	1438800	0	26059	0	0	0	0
SLPQSDPVLK	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4	HUM	Unmodified	15356000	10316000	6553500	122250	0	150540	0	0	0
SLPSDLAFNGDLAK	TNKS1BP1	Q9C0C2	TB182	HUM	Deamidation (N)	0	0	0	73952	76012	64074	0	18691	20271
SLPSEASEQYLTK	NRCAM; NRCAM; N	Q92823; A0A087	NRCAM	HUM	Unmodified	1463000	1522800	1452700	0	0	0	0	0	0
SLPSQQMVNR	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	Oxidation (M)	1041200	951070	979770	51675	0	0	0	0	0
SLPVEEQPK	PRPF8	Q6P2Q9	PRP8	HUM	Unmodified	2101100	1706900	1972700	0	120920	115500	0	0	0
SLPVEEQPKQIIVTR	PRPF8	Q6P2Q9	PRP8	HUM	Unmodified	4453100	4314800	3797900	315170	279450	298050	41093	46121	24249
SLPVFSIQDSPFGDAPLGR	PROSER3; PROSER3	Q2NL68; C9JFW7	PRSR3	HUM	Unmodified	76809	286880	73637	0	0	0	0	0	0
SLPVPQLVPETEDEK	ACOT7	O00154	BACH	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SLPVPQLVPETEDEKK	ACOT7	O00154	BACH	HUM	Unmodified	1446300	1262800	1106700	16434	0	18500	0	0	0
SLPVPQLVPETEDEKKR	ACOT7	O00154	BACH	HUM	Unmodified	1189500	2893700	1108600	0	17111	16288	0	0	0
SLPVSVPVWGFK	AKT1S1	Q96B36	AKTS1	HUM	Unmodified	895120	970170	0	0	0	0	0	0	0
SLQALGEVIEAELR	FARSA; FARSA; FAI	Q9Y285; K7ER16	SYFA	HUM	Unmodified	4998200	1213300	2717400	0	0	0	0	0	0
SLQALGEVIEAELRSTK	FARSA; FARSA; FAI	Q9Y285; K7ER16	SYFA	HUM	Unmodified	768550	427930	405190	0	0	0	0	0	0
SLQAQLQR	SACM1L; SACM1L;	Q9NTJ5; A0A5F9	SAC1	HUM	Unmodified	1489200	1960400	2090300	160730	143690	0	0	0	0
SLQATALR	TEX10	Q9NXF1	TEX10	HUM	Unmodified	753980	705100	626500	0	0	0	0	0	0
SLQDTAELLSLENHPAK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	2678200	0	766840	0	0	0	0	0	0
SLQEANAEKVTQEIVTER	DSG2	Q14126	DSG2	HUM	Unmodified	1875300	1990900	2136900	331380	260430	130440	53132	41081	42149
SLQEANAEKVTQEIVTER	DSG2	Q14126	DSG2	HUM	Deamidation (N)	1184300	1189600	1033400	49093	0	0	23511	0	28131
SLQEEHVAVAQLREEAER	PLEC	Q15149	PLEC	HUM	Unmodified	1381700	1465600	1428600	0	44597	25466	0	0	0
SLQEEQSRPPTAVSSPGGPAR	SLC4A1AP; SLC4A1	Q9BWU0; A0A08	NADAP	HUM	Unmodified	2187000	2704300	3171100	108000	116030	114690	0	14849	0
SLQELFLAHILSPWGAEVK	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	2209800	404080	1153000	0	0	0	0	0	0
SLQELFLAHILSPWGAEVKAEPVEVVAPR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	357160	0	68811	0	0	0	0	0	0
SLQEQADAAEER	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM	Unmodified	4834000	5850500	4696800	201320	196630	230870	0	0	0
SLQEQADAAEERAGTLQR	TPM1; TPM1; TPM1	H0YKJ4; H0YK48	H0YKJ4	HUM	Unmodified	777030	1179800	1012300	0	0	0	0	0	21172
SLQLDIIPASIPGSEVK	TRIO; TRIO; TRIO; T	O75962; E7EPJ7;	TRIO	HUM	Unmodified	252690	248250	255070	0	0	0	0	0	0
SLQMYLER	ECI1; ECI1	P42126; Q96DC0	ECI1	HUM	Oxidation (M)	8979300	6943900	9495500	0	0	0	0	0	0
SLQPLAPR	MVP	Q14764	MVP	HUM	Unmodified	0	0	0	285310	246850	314350	0	36682	0
SLQPLYR	DNASE2; DNASE2	O00115; K7ENE5	DNS2A	HUM	Unmodified	21689000	14928000	12167000	1195200	1089500	1302000	101320	0	116480
SLQQLAEER	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	6314600	6067300	5637000	191990	264560	279570	0	0	0
SLQQLAEERSQLLGSAHEVQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	7603000	7907000	7346200	0	0	0	18964	0	0
SLQSENAALR	CUX1; CUX1; CUX1	Q13948; P39880;	CASP	HUM	Unmodified	547290	652330	1011300	0	0	0	0	0	0
SLQSLEASLHAMESTR	SMC3	Q9UQE7	SMC3	HUM	Oxidation (M)	3112300	2161600	3195600	28749	0	0	0	0	0
SLQSLLGPSSK	CORO7; CORO7-PAI	P57737; I3L167; I	CORO7	HUM	Unmodified	0	1314400	0	23411	25363	39559	0	0	0
SLQSVAEER	RPL15; RPL15; RPL	P61313; E7EX53;	RL15	HUM	Unmodified	54450000	52605000	52789000	2306100	2305900	3155300	0	0	90458
SLQSVAEERAGR	RPL15; RPL15; RPL	P61313; E7EX53;	RL15	HUM	Unmodified	553460	667120	358810	205430	229840	254510	64660	63935	0
SLQTGFAIGVQQLHPTLIQR	RBM38; RBM38; RB	Q9H0Z9; A6NG75	RBM38	HUM	Unmodified	1522900	874320	1112400	0	0	0	0	0	0
SLQTYLK	CLASP2; CLASP2; C	O75122; B3KR06	CLAP2	HUM	Unmodified	747300	599940	824830	111860	78989	90964	0	0	0
SLQYEYK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	2789100	2536600	2537800	253410	344030	247780	0	0	0
SLQYEYKANSNLVLQADR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Deamidation (N)	0	671040	0	24527	0	0	29651	0	0
SLRDLTPEHLPLLR	DCPS; DCPS	Q96C86; A0A3B3	DCPS	HUM	Unmodified	458590	145220	289300	0	0	0	0	0	0
SLREHMGNVVEALIALTN	HYPK	Q9NX55	HYPK	HUM	Oxidation (M)	11336000	4450500	10892000	0	0	0	0	0	0
SLREHMGNVVEALIALTN	HYPK	Q9NX55	HYPK	HUM	Oxidation (M);Deai	180830	134840	0	0	0	0	0	0	0
SLREPVAQPGLLLQPSK	TANC1	Q9C0D5	TANC1	HUM	Unmodified	543640	575900	418360	15970	11630	0	0	0	0
SLRGSDALSETSSVSHIEDLEKVER	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Unmodified	0	1107400	1014800	0	0	0	0	0	0
SLRPDPNFDALISK	RNF2; RING1; RNF2	Q99496; Q06587;	RING2	HUM	Unmodified	6080400	4746200	4911200	52544	47979	59046	0	0	0
SLRPDPNFDALISK	RNF2; RING1; RNF2	Q99496; Q06587;	RING2	HUM	Deamidation (N)	905270	859410	762630	0	0	0	0	0	0
SLRVDIAEGR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	Unmodified	2241200	1790100	2124200	107990	156550	159430	0	0	0
SLSAIDRAGAEVK	AIFM1; AIFM1; AIFM	O95831; A0A7I2R	AIFM1	HUM	Unmodified	2742400	2123400	2282400	239980	250340	237980	18785	18970	21686
SLSALGNVISALAEGSTYVPYRDSK	KIF5B	P33176	KINH	HUM	Unmodified	678820	241560	467980	0	0	0	0	0	0
SLSALGNVISALAEGTK	KIF5C; KIF5A; KIF5	O60282; Q12840;	KIF5C	HUM	Unmodified	208860	145860	270890	0	0	0	0	0	0
SLSDALISLQMVYPR	NCKAP1	Q9Y2A7	NCKP1	HUM	Oxidation (M)	2617200	368550	369260	0	0	0	0	0	0
SLSDSESDDSK	CBX3; CBX3	Q13185; S4R2Y4	CBX3	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SLSDSESDDSKSK	CBX3; CBX3	Q13185; S4R2Y4	CBX3	HUMA	Unmodified	2401400	1431700	1195600	68608	70919	29169	0	0	0
SLSDWHLAVK	UBL7; UBL7; UBL7	Q96S82; H3BUV9	UBL7	HUMA	Acetyl (Protein N-t	802480	598000	449440	0	0	0	0	0	0
SLSEAMSVEK	CDC73; CDC73; CDC	Q6P1J9; A0A2R8	CDC73	HUM	Oxidation (M)	1329000	234070	1418100	0	0	0	0	0	0
SLSEEIKR	DSP	P15924	DESP	HUMA	Unmodified	1440000	1091800	1004100	0	0	0	0	0	0
SLSEGHPTAQHEK	ACADVL; ACADVL;	P49748; J3QRJ8;	ACADV	HUN	Unmodified	3232600	2699700	3015700	405710	418180	514110	0	0	0
SLSELESLKLPAESNEK	OSBP	P22059	OSBP1	HUM	Unmodified	1103900	1015500	1245700	45283	25504	9493.2	0	0	0
SLSFPILNPALSQPSQPPSSPLPGSHGR	RNF214; RNF214	Q8ND24; E9PN76	RN214	HUM	Unmodified	2749600	2392900	2732400	0	0	0	0	0	0
SLSGLILKNNVK	TNPO2; TNPO1; TNI	O14787; Q92973;	TNPO2	HUM	Deamidation (N)	1227400	777420	1100300	63416	35687	0	0	0	0
SLSLGGHVGFDISLPDQLVSK	SEPTIN8; SEPTIN8;	Q92599; A6NFQ9	SEPT8	HUM	Unmodified	318660	104970	0	0	0	0	0	0	0
SLSNKLTLDK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	972410	857290	0	0	0	0	0	0	0
SLSNKLTLDK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	0	726500	760280	0	0	18956	0	0	0
SLSNKLTLDKLDVK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	84552000	75673000	68840000	103640	309980	191260	96222	70287	66072
SLSNKLTLDKLDVK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	104220000	98598000	97794000	1414600	885690	640290	278450	168070	43318
SLSNKLTLDKLDVK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	12975000	9598900	11341000	203270	156260	72223	42061	42727	16293
SLSNKLTLDKLDVK	PGK1	P00558	PGK1	HUMA	Acetyl (Protein N-t	2309800	2231400	3988500	17699	0	0	0	0	0
SLSNTKPTVNEHDLLK	VPS4B	O75351	VPS4B	HUM	Unmodified	527490	538310	430780	0	0	0	0	0	0
SLSPILPGR	ARHGEF18; ARHGE	Q6ZSZ5; A0A087	ARHGI	HUM	Unmodified	1214700	0	338110	11481	10155	0	0	0	0
SLSSFVMNCGEITR	N/A	N/A	N/A		Oxidation (M)	607210	965260	537470	23166	0	0	0	0	0
SLSSSLDDTEVKK	VAPB	O95292	VAPB	HUMA	Unmodified	1424500	896280	1002800	84318	0	0	0	0	0
SLSSSPQAQPPRPAELSDEEVAELFQR	GRIPAP1; GRIPAP1;	Q4V328; A0A087	GRAP1	HUM	Unmodified	2408400	2795900	1506200	0	0	0	0	0	0
SLSTAPVVQPLSIQDLVR	ARFGEF3	Q5TH69	BIG3	HUMA	Unmodified	1275900	1511800	1474300	0	0	0	40104	0	0
SLSVLSSSTIIANPDIPEAYKLR	RPA1; RPA1	P27694; I3L4R8	RFA1	HUMA	Unmodified	7034600	6182300	7190000	0	0	0	0	0	0
SLSYSPVER	SRRM2; SRRM2	Q9UQ35; I3L4U6	SRRM2	HUM	Unmodified	2269200	2867700	0	227320	215370	222940	0	45090	0
SLTAEIDR	RARS1; RARS1; RAI	P54136; E5RJM9;	SYRC	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SLTANPELIDR	DIS3; DIS3; DIS3	Q9Y2L1; G3V1J5	RRP44	HUM	Unmodified	784640	711990	587620	0	0	0	0	0	0
SLTATGGNHVTAR	FLNC	Q14315	FLNC	HUMA	Deamidation (N)	0	0	0	52963	0	0	519830	632510	708170
SLTATGGNHVTAR	FLNC	Q14315	FLNC	HUMA	Unmodified	0	0	0	0	0	0	109350	87232	105060
SLTEQQGR	PCNT	O95613	PCNT	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
SLTEYLQNVEQK	KIF5B	P33176	KINH	HUMA	Unmodified	1505000	1335300	1744500	0	0	10277	0	0	0
SLTIAEFK	TBCB; TBCB; TBCB	Q99426; K7EL99;	TBCB	HUMA	Unmodified	2709900	2141600	2579800	29153	53598	59046	0	0	0
SLTMSGHVGFESLPDQLVNR	SEPTIN10; SEPTIN1	Q9P0V9; B5ME97	SEP10	HUM	Oxidation (M)	3534600	2870600	3316300	0	0	0	0	0	0
SLTNDWEDHLAVK	HSP90AB1; HSP90A	P08238; P07900	HS90B	HUM	Deamidation (N)	23981000	19100000	28097000	113020	89302	106660	0	0	0
SLTNDWEDHLAVK	HSP90AB1; HSP90A	P08238; P07900	HS90B	HUM	Unmodified	11672000	8644800	8278300	71292	70899	99165	0	0	0
SLTPAVPVESKPDKPSGK	CAST; CAST; CAST;	P20810; A0A6Q8	ICAL	HUMA	Unmodified	0	917260	611560	144900	159800	133450	51550	49792	0
SLTPDDDVFQYLAHTYASR	CPM; CPM; CPM	P14384; F8W111;	CBPM	HUM	Unmodified	1422300	1686600	1290800	0	0	0	0	0	0
SLTPQLNNNVPMQKK	CASS4; CASS4	Q9NQ75; B4DII4	CASS4	HUM	Oxidation (M);2 De	819910	0	415380	0	0	0	0	0	0
SLTQSYLR	NUP98; NUP98	P52948; H7C3P6	NUP98	HUM	Unmodified	1163100	1487600	2080100	45530	53382	65233	0	0	0
SLTTSQYLMHEVAK	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A	HUM	Oxidation (M)	1447600	1654800	2104900	103170	53096	107620	0	0	0
SLTYLSILR	SNRPA1; SNRPA1; S	P09661; H0YMA(	RU2A	HUMA	Unmodified	1437100	1642200	1002400	0	0	0	0	5529.4	0
SLVASLAEPDFVVTDFAK	UBA1	P22314	UBA1	HUMA	Unmodified	4589600	2378600	3852500	0	0	0	0	0	0
SLVDLTAVDVPTR	NDUFS3; NDUFS3	O75489; E9PS48	NDUS3	HUM	Unmodified	3168900	2090000	2121500	17487	0	5636.7	0	0	0
SLVEQHKR	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Unmodified	0	0	4471700	139840	113100	109460	0	0	0
SLVESVSSSPNK	PPA2	Q9H2U2	IPYR2	HUM	Unmodified	491100	633030	489040	77330	0	65156	0	0	0
SLVESVSSSPNKESNEEEQVWHFLGK	PPA2	Q9H2U2	IPYR2	HUM	Unmodified	1646400	1808400	1771900	0	0	0	0	0	0
SLVGGLLQSK	NUP98; NUP98; NUP	P52948; H7C3P6;	NUP98	HUM	Unmodified	1429400	974660	1008600	16908	0	0	0	0	0
SLVGLSQER	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	2567100	2004700	2402100	332400	0	234970	0	0	0
SLVIPEKFQHILR	RPS18; RPS18; RPS1	P62269; A0A0G2	RS18	HUMA	Acetyl (Protein N-t	3445800	4261200	7638900	0	0	0	9457.4	0	0
SLVLDTKDLTIEK	LTA4H; LTA4H	P09960; B4DEH5	LKHA4	HUM	Unmodified	1034800	1723100	1160900	37385	46166	20628	0	0	0
SLVPAAELLESR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	13018000	6422800	5915000	360750	364230	311680	56235	58198	59114
SLVPQLR	SMARCA2; SMARC	P51531; F6VDE0;	SMCA2	HUM	Unmodified	1273600	1383700	1015700	74048	77095	56065	0	0	0
SLVQDSLSTNSSDLVAPSPDAFR	TP53BP1; TP53BP1;	Q12888; A6NNK5	TP53B	HUM	Deamidation (N)	4707300	3179000	3160700	0	0	0	0	0	0
SLVQEMVGSFGK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M)	823780	878270	720180	0	30506	0	0	0	0
SLVQEMVGSFGKR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M)	1107200	1685200	1319100	0	0	0	0	0	0
SLVQGELVTASK	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	2200300	1584800	2588700	2050700	1763300	1507300	68042	0	0
SLVSGLIR	GCN1	Q92616	GCN1	HUMA	Unmodified	806400	2352000	1267600	0	18651	0	0	0	0
SLVSKGTLVQTK	H1-3; H1-4; H1-5; H1	P16402; P10412;	H13	HUMAN	Unmodified	18531000	21922000	20695000	187790	188440	288070	13558	0	0
SLVSKGTLVQTK	H1-3; H1-4; H1-5; H1	P16402; P10412;	H13	HUMAN	Methyl (KR)	3035200	3620900	7071600	0	30813	0	0	0	0
SLVASSPGGVYATR	VIM; VIM; VIM; VIN	P08670; B0YJC4;	VIME	HUMA	Unmodified	39722000	35310000	37357000	105220000	95263000	104110000	6387600	869200	5739200
SLVDEVAAQGEVVR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUMA	Unmodified	9642600	6444500	7300500	315710	69449	53158	0	0	0
SLVDEVAAQGEVVRK	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUMA	Unmodified	1823300	1676100	1673800	101390	98640	52924	0	0	0
SLVESFVSSSDR	NELFE; NELFE; NEI	P18615; A2ABK4	NELFE	HUM	Unmodified	706380	703640	403230	0	0	37667	0	0	0
SLVHDISGDTSGDYR	ANXA11	P50995	ANX11	HUM	Unmodified	926670	409760	876590	0	0	0	0	0	0
SLVHDISGDTSGDYRK	ANXA11	P50995	ANX11	HUM	Unmodified	4177700	6633800	2365100	0	0	0	0	0	0
SLVHSVEWRPAEEPR	COLGALT1; COLGA	Q8NBJ5; M0QYH	GT251	HUM	Unmodified	4940000	5499000	5160800	0	0	0	0	0	0
SLVPLTFIQVK	GLB1; GLB1	P16278; E7EQ29	BGAL	HUM	Unmodified	0	0	1916100	0	0	0	0	0	0
SLYQSAGVAPESFEYIEAHGTGTK	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	9898200	8245200	8305700	42248	29614	0	0	0	27271
SLYQSAGVAPESFEYIEAHGTGTKVGDPQELNGITR	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Deamidation (N)	2080000	1829300	5349100	0	0	0	0	0	0
SLYSEKEVFIR	TRAP1	Q12931	TRAP1	HUM	Unmodified	955870	946410	1598400	0	0	0	0	0	0
SLYVAEYHSEPVEDEKP	DDX6	P26196	DDX6	HUM	Unmodified	5553300	6954200	6718900	183320	471780	235280	59221	63132	79132
SLYYYIQQDTKGDYQK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	740860	463300	403200	31342	0	0	16611	0	16244
SMAASGNLGHTPFVDEL	UQCRC2	P22695	QCR2	HUMA	Oxidation (M)	0	3397500	3215900	89486	85169	83454	0	17426	24079
SMAASGNLGHTPFVDEL	UQCRC2	P22695	QCR2	HUMA	Oxidation (M);Deai	1203900	923360	1294900	11268	12691	0	0	0	0
SMAEDTINAAVK	GPD2	P43304	GPDM	HUM	Oxidation (M)	723990	1310200	1934400	0	0	0	0	0	0
SMALADPENR	SNTB1; SNTB1	Q13884; A0A3B3	SNTB1	HUM	Oxidation (M)	583710	661730	788000	49439	54303	55864	0	0	0
SMANPPAAVK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	1361900	2441900	2111300	0	82576	0	0	0	0
SMDAETYVEGQR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Oxidation (M)	1125200	828310	1314000	325740	259190	301920	0	0	0
SMDATLKTMNLEK	CHMP1B	Q7LBR1	CHM1B	HUN	2 Oxidation (M)	2978400	2231200	2390900	0	112170	158260	0	0	0
SMDELNHDFQALALEGR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1	HUM	Oxidation (M);Deai	3092300	969900	1264600	0	0	0	0	0	0
SMDELNHDFQALALEGR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1	HUM	Oxidation (M)	0	1256400	1003300	0	36637	0	0	0	0

SMDFEEAER	TXNL1; TXNL1	O43396; K7ER96	TXNL1	HUM	Oxidation (M)	940340	1099200	986250	0	87027	68465	0	0	0
SMDHFDDIGPSVVMASPGMMQSGLSR	CPSF3; CPSF3	Q9UKF6; G5E9W	CPSF3	HUM	4 Oxidation (M)	868350	937650	957480	0	0	0	0	0	0
SMDSYLNQSYGMDNHSGGGGGSR	ZNF326	Q5BKZ1	ZN326	HUM	2 Oxidation (M);De	1231000	724060	1349000	47071	0	0	0	0	0
SMDSYLNQSYGMDNHSGGGGSR	ZNF326	Q5BKZ1	ZN326	HUM	2 Oxidation (M);2 I	501540	948190	403120	0	0	0	0	0	0
SMEAEMIQLQEELAAAER	MYH9	P35579	MYH9	HUM	2 Oxidation (M)	12727000	7231500	7689200	0	0	0	0	0	0
SMEEDPQTSR	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	1017000	1103200	1609300	0	0	0	0	0	0
SMEEDPQTSREIFNFVLK	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	0	2875600	3546200	0	0	0	0	0	0
SMEEQLLVVER	NOP14; NOP14	P78316; E9PFK5	NOP14	HUM	Oxidation (M)	711150	568180	473630	0	0	0	0	0	0
SMEMLVEHQAHDILT	PSMD13; PSMD13; I	Q9UNM6; A0A08	PSD13	HUM	2 Oxidation (M)	0	1380200	2857300	55151	0	88376	0	0	0
SMENIMEMNKR	DLG1; DLG1; DLG1;	Q12959; A0A590	DLG1	HUM	3 Oxidation (M)	771100	70046	1003700	81718	53903	53887	0	0	0
SMENYYQESGR	RECQL	P46063	RECQ1	HUM	Oxidation (M);Deai	783930	788050	916460	0	0	0	0	0	0
SMENYYQESGR	RECQL	P46063	RECQ1	HUM	Oxidation (M)	2586900	1925700	1909100	111450	0	0	0	0	0
SMEVKPAQASHTNYLLMR	GTF3C1	Q12789	TF3C1	HUM	2 Oxidation (M)	684680	1606100	1284900	74704	0	148790	0	0	0
SMEVSTQLAR	SMC3	Q9UQE7	SMC3	HUM	Oxidation (M)	4339600	3717000	3918100	186280	125070	110760	0	0	0
SMFAGVPTMR	SURF4; SURF4; SUR	O15260; Q5T8U5;	SURF4	HUM	2 Oxidation (M)	2096100	2062300	2373200	90215	90022	93638	0	0	0
SMGFIGHYLDQKR	ACLY	P53396	ACLY	HUM	Oxidation (M)	1030400	0	1364700	51026	0	0	0	0	0
SMGGAAIAPPTSLVEK	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45	HUM	Oxidation (M)	998640	1714800	1856600	84765	83322	72374	0	0	0
SMGGAAIAPPTSLVEKDKELPR	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45	HUM	Oxidation (M)	2999900	2306700	0	132630	122820	140220	0	0	0
SMGLPTSDEQK	NUDC	Q9Y266	NUDC	HUM	Oxidation (M)	1546500	1138300	1023900	0	0	0	0	0	0
SMGLPTSDEQKKQEILK	NUDC	Q9Y266	NUDC	HUM	Oxidation (M)	5895600	6309400	7375200	0	0	0	0	0	0
SMGLPTSDEQKKQEILKK	NUDC	Q9Y266	NUDC	HUM	Oxidation (M)	4312900	4684200	5966100	0	0	0	0	0	0
SMGYDDLDYGMMSDYGTAR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	3 Oxidation (M)	1034300	0	1050500	88666	37353	66540	0	0	0
SMHEFSAK	GPX4; GPX4; GPX4;	P36969; A0A087	GPX4	HUM	Oxidation (M)	0	0	823920	0	0	0	0	0	0
SMIASTAITVHYLDLSLNPSGEVTR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Oxidation (M)	1759500	0	1375000	0	0	0	0	0	0
SMIEISR	CCT3; CCT3; CCT3;	P49368; Q5SZW8	TCPG	HUM	Oxidation (M)	6911400	5856500	5510400	540050	554220	598870	0	13389	14889
SMISLAGGLPNPNMFPFK	AADAT; AADAT; A	Q8N5Z0; D6REB5	AADAT	HUM	2 Oxidation (M);M	0	0	0	0	58213	0	38351	0	0
SMKKRMSELCIDFNK	NLN; NLN	Q9BYT8; E9PCB6	NEUL	HUM	Oxidation (M);Deai	0	401980	255080	0	0	0	0	0	0
SMLEVNYPMENGIVR	ACTR2; ACTR2	P61160; F5H6T1	ARP2	HUM	2 Oxidation (M);De	997780	898560	840410	34437	58072	46377	0	0	0
SMLQATAEANNLAAAASAK	ATL3; ATL3	Q6DD88; F5H6I7	ATLA3	HUM	Oxidation (M)	398610	386670	720260	64842	0	0	0	0	0
SMMACLLSSLKANGSRGAFCEVR	OGA	O60502	OGA	HUM	2 Oxidation (M)	1998000	2509200	2831400	0	0	0	0	0	0
SMMGEREGQHYPER	SAFB	Q15424	SAFB1	HUM	2 Oxidation (M)	546970	2360000	2202300	227320	176560	218300	0	24867	0
SMMGGGLAEIPGLSINFAK	HSD17B4; HSD17B4	P51659; E7EPL9;	DHB4	HUM	2 Oxidation (M)	843230	1571500	0	0	0	0	0	0	0
SMMNLQTK	TOP1; TOP1	P11387; A0A7P0	TOP1	HUM	2 Oxidation (M)	883390	1064700	397690	0	0	0	0	0	0
SMMSAYER	SON; SON	P18583; H7C1M2	SON	HUM	2 Oxidation (M)	12912000	9051000	9121500	1177000	0	1647800	0	0	0
SMMSPMADR	SON; SON	P18583; H7C1M2	SON	HUM	3 Oxidation (M)	620060	0	1001100	58712	49446	54791	0	0	0
SMMSPMAER	SON; SON	P18583; H7C1M2	SON	HUM	3 Oxidation (M)	2719600	2329000	3472900	704180	752060	706620	0	0	7663.9
SMMSSYER	SON; SON	P18583; H7C1M2	SON	HUM	2 Oxidation (M)	1450600	1103000	1056300	192800	70963	11757	0	0	0
SMMSYER	SON; SON	P18583; H7C1M2	SON	HUM	2 Oxidation (M)	1180600	761300	1155400	13076	0	14979	0	0	0
SMNSQYLK	CTSA; CTSA; CTSA;	P10619; X6R8A1;	PPGB	HUM	Oxidation (M)	1600500	1052700	868000	68553	136360	0	0	0	0
SMNSRVFIGNLNTLVVK	HNRNPC1; HNRNP	B7ZW38; P0DMR	HNRC3	HUM	Oxidation (M);2 De	2298300	2533200	2712700	0	0	0	0	0	0
SMNSRVFIGNLNTLVVK	HNRNPC1; HNRNP	B7ZW38; P0DMR	HNRC3	HUM	Oxidation (M);Deai	602030	615400	582540	0	0	0	0	0	0
SMPIRKDDEVQVVR	RPL26; RPL26L1; RI	P61254; Q9UNX3	RL26	HUM	Oxidation (M)	8899700	8090500	8782000	431980	408070	453650	42237	0	0
SMPTSGALDR	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Oxidation (M)	10528000	9510100	9849600	327800	324600	393500	0	0	0
SMPTSGALDRVASATK	PGM1; PGM1	P36871; A0A3B3	PGM1	HUM	Oxidation (M)	5019200	4770500	5721800	517890	444280	540510	57398	0	0
SMPTSMALDRVAK	PGM5	Q15124	PGM5	HUM	2 Oxidation (M)	0	0	0	0	0	0	0	127280	0
SMPVLGSVSSVTK	SHTN1	A0MZ66	SHOT1	HUM	Oxidation (M)	2661600	2948400	2783800	0	108550	136990	0	0	0
SMPWNVDTLSK	CDC37; CDC37; CDC	Q16543; K7EQA9	CDC37	HUM	Oxidation (M)	2442300	410430	4465300	137470	0	128190	0	0	0
SMPWNVDTLSKDGFSK	CDC37; CDC37; CDC	Q16543; K7EQA9	CDC37	HUM	Oxidation (M)	1663000	480180	2754500	87679	75568	43447	0	0	0
SMQGFPFYDKPMR	SNRPA; SNRPA; SNI	P09012; M0R2B8	SNRPA	HUM	2 Oxidation (M)	12822000	16638000	12967000	265960	275220	250020	0	0	0
SMQHSPNLR	NEBL	O76041	NEBL	HUM	Oxidation (M)	0	0	991450	0	0	0	0	0	0
SMQNHAAVFR	SDHA; SDHA	P31040; A0A087	SDHA	HUM	Oxidation (M);Deai	617480	753310	861290	42504	79926	148010	0	0	0
SMQNHAAVFR	SDHA; SDHA	P31040; A0A087	SDHA	HUM	Oxidation (M)	924640	597820	808690	42024	0	0	0	0	0
SMQPGTSLAK	TRMT10C	Q7L0Y3	TM10C	HUM	Oxidation (M)	330120	269760	328260	0	0	0	0	0	0
SMQQLDPSPAR	DSN1; DSN1	Q9H410; Q5JW54	DSN1	HUM	Oxidation (M)	1317100	1312200	1983200	0	0	0	0	0	0
SMQVVPLDK	GNL3	Q9BVP2	GNL3	HUM	Oxidation (M)	554110	634600	663470	0	48351	32218	0	0	0
SMRGGYIGSTYFER	UBE2M	P61081	UBC12	HUM	Oxidation (M)	574520	564000	490210	148210	132610	106580	0	0	0
SMSAPVIFDR	SNX2; SNX2	O60749; D6RC15	SNX2	HUM	Oxidation (M)	3229600	3661000	3706300	432060	401440	470060	72003	75748	94949
SMSFQGIR	DSP	P15924	DESP	HUM	Oxidation (M)	1612500	1853500	1436900	0	0	0	0	0	0
SMSGHPEAAQMVR	CKAP5; CKAP5; CK	Q14008; H0YEK7	CKAP5	HUM	2 Oxidation (M)	0	1523800	889300	0	180070	381520	0	0	0
SMSLIPTSPQVPGEWPSPEELGAR	SAMD4B; SAMD4B;	Q5PRF9; M0QZ2	SMAG2	HUM	Oxidation (M)	1154900	959810	1025800	0	0	0	0	0	0
SMSTEGLMK	CS; CS; CS	O75390; A0A0C4	CISY	HUM	2 Oxidation (M)	8003400	10388000	9306600	0	0	638420	0	0	0
SMSTEGLMKFVDSK	CS; CS; CS	O75390; A0A0C4	CISY	HUM	2 Oxidation (M)	1203900	1068200	1516500	141010	250170	171700	30879	0	0
SMSVEKIDISPVLLQK	MRE11; MRE11; MR	P49959; F5GXT0;	MRE11	HUM	Oxidation (M)	2577500	2632500	2778000	101770	99173	63107	0	0	0
SMSVYCTPNKPSR	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Oxidation (M)	1060200	0	0	0	0	0	0	0	0
SMTEAEQQQLIDDHFLFDKPVSPLLLASGMAR	CKB; CKB	P12277; G3V4N7	KCRB	HUM	2 Oxidation (M)	98600000	87632000	99123000	0	0	0	0	0	0
SMTLEIR	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA	HUM	Oxidation (M)	3530200	3061700	3567000	209330	358260	290020	0	0	0
SMTLEIREGR	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA	HUM	Oxidation (M)	220370	0	622750	227860	307300	263800	0	0	0
SMVAVMDSDTTGK	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1	HUM	2 Oxidation (M)	713170	817840	647910	0	0	0	0	0	0
SMVEDTGLR	DSP	P15924	DESP	HUM	Oxidation (M)	18667000	24674000	21019000	313420	372530	237850	0	0	0
SMVEEGTGLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Oxidation (M)	3311400	1426400	0	70551	68553	70298	0	0	0
SMVEKMMYDQR	NUDC	Q9Y266	NUDC	HUM	3 Oxidation (M)	0	6252100	2251500	0	0	0	0	0	0
SMVEVLADHPGELVR	RUNX1; RUNX1; RU	Q01196; A8MZI9;	RUNX1	HUM	Oxidation (M)	300590	1091800	653250	0	0	0	0	0	0
SMVPVQVQLDVPVVK	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1	HUM	Oxidation (M)	3158200	2142900	2456400	112760	61613	47359	0	21071	0
SMVQFIGR	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2	HUM	Oxidation (M)	0	1371100	0	0	0	0	0	0	0
SMVTEEFNGSDWEK	CENPV	Q7Z7K6	CENPV	HUM	Oxidation (M);Deai	988100	1595300	1359900	0	0	0	0	0	0
SMYEEEINETR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Oxidation (M);Deai	1238900	1470900	1220700	0	0	0	0	0	0
SMYEEEINETR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Oxidation (M)	5611000	5467000	4160400	159960	166460	241940	0	0	0
SMYEEEINETRR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Oxidation (M)	1630400	2010200	1728100	0	0	0	0	0	0
SMYEEEINETRR	LMNB1; LMNB1; LN	P20700; A0A0D9	LMNB1	HUM	Oxidation (M);Deai	667010	0	1013400	0	0	0	0	0	0
SNAEDTLR	PLEC	Q15149	PLEC	HUM	Unmodified	1157500	0	890570	166610	167310	268470	0	0	0
SNAQRQDIAFAYQR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2	HUM	Unmodified	2353800	2004300	2148900	405140	420510	463660	0	93888	0
SNAQRQDIAFAYQR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2	HUM	Deamidation (N)	1063000	643330	942510	389180	45319	206840	0	0	0
SNASTLESHETEEPAAK	TRMT6	Q9UJA5	TRM6	HUM	Deamidation (N)	806730	748650	561670	0	0	0	0	0	0
SNASTLESHETEEPAAK	TRMT6	Q9UJA5	TRM6	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SNDEEAFTFAR	CBS; CBSL	P35520; P0DN79	CBS	HUM	Unmodified	1813200	1176600	570470	0	0	0	0	0	0
SNDKVYENVTGLVK	PTK2; PTK2; PTK2;	Q05397; E9PEI4;	FAK1	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
SNEDQSMGNWQIK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Oxidation (M)	342390	507130	514340	0	136740	0	0	0	0
SNEILTAIIQGMR	KPNB1; KPNB1; KP	Q14974; J3QRG4;	IMB1	HUM	Oxidation (M)	1843100	1200600	1495700	11986	0	0	0	18475	0
SNELLLLAAAGEGLER	C2orf69	Q8N8R5	CB069	HUM	Unmodified	323120	358740	273090	0	0	0	0	0	0
SNFFAIIR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	2080700	646780	720230	0	0	0	0	0	0
SNFSLAILNVGAPAAGMNAAVR	PFKL	P17858	PFKAL	HUM	Oxidation (M)	3533500	3579800	3479600	15756	10996	0	0	0	0
SNFSLAILNVGAPAAGMNAAVR	PFKL	P17858	PFKAL	HUM	Oxidation (M);Deai	1357600	3608200	2548900	0	0	0	0	0	0
SNFSLAILNVGAPAAGMNAAVR	PFKL	P17858	PFKAL	HUM	Oxidation (M);2 De	0	0	536880	0	0	0	0	0	0
SNFSNSADDIKSK	CBX5	P45973	CBX5	HUM	Deamidation (N)	3920200	672330	657540	0	0	0	0	0	0
SNFSNSADDIKSK	CBX5	P45973	CBX5	HUM	2 Deamidation (N)	427120	444750	0	0	0	0	0	0	0
SNGWILPTVYQGMYNATTR	AKR7A2	O43488	ARK72	HUM	Oxidation (M);2 De	225310	0	0	0	0	0	0	0	0
SNGWILPTVYQGMYNATTR	AKR7A2	O43488	ARK72	HUM	Oxidation (M);Deai	653710	739950	212800	0	0	0	0	0	0
SNGYEEAYSVFKK	PAFAH1B1; PAFAH1	P43034; A0A6Q8	LIS1	HUM	Deamidation (N)	0	1140200	1439700	0	0	0	0	0	0
SNIAAANSGSNSSGATRASGK	XKR4	Q5GH76	XKR4	HUM	3 Deamidation (N)	0	0	0	67596000	0	176610	51345	23375	60856
SNIAFMGTLVR	ATP2C1; ATP2C1; A	P98194; B4E2Q0;	AT2C1	HUM	Oxidation (M)	1419800	4422200	1507900	0	0	0	0	0	0
SNIDALLSRLEQIAAEQK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY	HUM	Unmodified	217750	0	74770	0	0	0	0	0	0
SNITIDPDVKPGEYVIK	FRYL; FRYL; FRYL;	O94915; F2Z2S2;	FRYL	HUM	Acetyl (Protein N-t	619970	450530	371590	0	0	0	0	0	0
SNLAYDIVQLPTGLTGIK	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74	HUM	Unmodified	1925600	1121000	1794100	0	0	0	0	0	0
SNLDEDIIAEENIVSR	C3	P01024	CO3	HUM	Unmodified	2511400	2720300	2110200	74049	42805	0	0	0	46211
SNLGSVVLQLKK	DHX15	O43143	DHX15	HUM	Unmodified	0	1728700	0	0	0	0	0	0	0
SNLMDAISFVLGEK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	975080	297340	589730	0	0	0	0	0	0
SNLMDAISFVLGEKTSNLR	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Oxidation (M)	0	1834500	6510500	43183	14058	0	0	0	0
SNLMMSLFEPGPEPLPWLGK	INTS14; INTS14; INT	Q96SY0; B4DVT7	INT14	HUM	2 Oxidation (M)	585250	505120	467670	0	0	0	0	0	0
SNLNPNAKEFVPGVK	PAIP2; PAIP2	Q9BPZ3; D6R9Y1	PAIP2	HUM	Deamidation (N)	568730	460970	667670	0	0	0	0	0	0
SNLVGMGVIPLEYLPGENADALGLTGQER	ACO1	P21399	ACOC	HUM	Oxidation (M)	530420	364230	375290	0	0	0	0	0	0
SNLVISDPIPGAKPLPVPPELAPFVGR	BAIAP2; BAIAP2; B	Q9UQB8; I3L4C2	BAIP2	HUM	Unmodified	1170800	721670	2043800	0	0	0	0	0	0
SNMGHPEPASGLAALAK	FASN; FASN	P49327; A0A0U1	FAS	HUM	Oxidation (M)	2920100	2155200	2741600	0	0	0	16474	0	0
SNMGHPEPASGLAALAK	FASN; FASN	P49327; A0A0U1	FAS	HUM	Oxidation (M);Deai	2396400	3386900	4075100	91664	0	67766	0	22441	0
SNNVEMDWVLK	HNRNPH1; HNRNPH	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M)	894190	1163300	963620	0	34746	0	0	0	0
SNNVEMDWVLK	HNRNPH1; HNRNPH	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M);Deai	12266000	10717000	14843000	291570	251880	294700	0	0	0
SNPEDQILYQTER	MLEC; MLEC; MLE	Q14165; F5GXI4;	MLEC	HUM	Unmodified	4067000	2595000	0	1089300	0	962200	0	0	0
SNPEGAEDRAVGAQASPLR	BABAM1	M0R3H9	M0R3H9	HUM	Unmodified	1225800	0	0	0	0	0	0	0	0
SNPEGAEDRAVGAQASVGSR	BABAM1; BABAM1	Q9NWV8; M0QX	BABA1	HUM	Unmodified	924640	923860	0	114880	130730	136000	0	0	0
SNPEIQDFMR	HEXA; HEXA; HEXA	P06865; H3BU85;	HEXA	HUM	Oxidation (M)	0	834990	669420	0	0	0	0	0	0
SNPFAHLAEPLDPVQPGKK	ACO1	P21399	ACOC	HUM	Acetyl (Protein N-t	0	0	0	134190	100830	0	0	0	33357
SNPGDFTLSVR	PTPN11; PTPN11	Q06124; A0A1W2	PTN11	HUM	Unmodified	1425200	1451200	0	35904	40387	34090	0	0	0
SNPGGFGIAPHCLDEGTVR	CENPV	Q7Z7K6	CENPV	HUM	Unmodified	13438000	11469000	11308000	201090	200460	204470	26966	23364	46935
SNPQVYMDIK	PPIE; PPIE; PPIE	Q9UNP9; E9PKY	PPIE	HUM	Oxidation (M)	2618500	1858300	1919100	174970	162100	267860	0	0	0
SNPRSLEEEKYDMSGAR	CASP14	P31944	CASPE	HUM	Acetyl (Protein N-t	674180	460520	959480	360650	744690	833050	0	0	0
SNQQLENDLNLMDIK	IQGAP1; IQGAP1; IQ	P46940; A0A0J9	IQGA1	HUM	Oxidation (M)	486560	386000	414680	0	0	0	0	0	0
SNQVTAPEYVFLISELAGEQR	SBNO1	A3KN83	SBNO1	HUM	Unmodified	207680	106990	182560	0	0	0	0	0	0
SNRDELELELAENR	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Unmodified	0	1297800	1281000	0	0	0	0	0	0
SNRDELELELAENRK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1	HUM	Unmodified	4028200	979080	1122300	57658	63658	88468	0	0	0
SNRVVVDPVVTEQPSTSSAAK	PHIP	Q8WWQ0	PHIP	HUM	Deamidation (N)	690830	691760	636510	37079	0	33832	0	0	0
SNRVVVDPVVTEQPSTSSAAK	PHIP	Q8WWQ0	PHIP	HUM	Deamidation (N)	908930	518090	0	0	20287	0	0	0	0
SNSLAFIK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Deamidation (N)	1260700	1103700	1079100	50945	60173	53146	0	0	0
SNSLAFIK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1041600	789760	905370	91596	43674	56734	0	0	0

SNSLDQKTPEANSR	KIF1B; KIF1B; KIF1I	O60333; A0A0U1	KIF1B	HUM/	Unmodified	740880	1061600	806630	55399	0	0	0	0	0
SNSVEMDWVLK	HNRNPH2	P55795	HNRH2	HUM	Oxidation (M);Deai	1694300	1170000	1649400	108460	80961	384770	0	0	0
SNTLPISLQSIR	LRPPRC	P42704	LPPRC	HUM	Unmodified	7446000	7335600	8033600	25451	28128	0	0	0	0
SNTLPISLQSIR	LRPPRC	P42704	LPPRC	HUM	Deamidation (N)	3761000	3060600	3053700	0	0	0	0	0	0
SNTPILVDGK	GPI; GPI; GPI; GPI; C	P06744; K7ERC6;	G6PI	HUMA	Unmodified	3523300	3663600	7606400	42475	68592	0	0	0	0
SNTPILVDGKDVMPEVNK	GPI; GPI; GPI; GPI; C	P06744; K7ERC6;	G6PI	HUMA	Oxidation (M)	9206400	9000800	9072200	0	123130	374950	0	0	0
SNTPILVDGKDVMPEVNK	GPI; GPI; GPI; GPI; C	P06744; K7ERC6;	G6PI	HUMA	Oxidation (M);Deai	0	362320	621150	0	0	0	0	0	0
SNTSPEELGPLANQLTSDYGR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	1962300	2095100	2206200	0	0	0	0	0	18054
SNTSPEELGPLANQLTSDYGR	TLN1	Q9Y490	TLN1	HUMA	Deamidation (N)	379970	519030	382090	0	0	0	0	0	0
SNVRVSNGSPSLERMDAR	CDKN1B; CDKN1B	P46527; E7ESS2	CDN1B	HUM	Acetyl (Protein N-t	0	0	0	556710	591790	420340	0	0	36246
SNVSDAVAQSTR	TPI1	P60174	TPIS	HUMA	Unmodified	150590000	174190000	167640000	1408600	1760600	1561800	62675	11767	16647
SNVSDAVAQSTR	TPI1	P60174	TPIS	HUMA	Deamidation (N)	5445300	7038300	5079500	148090	97100	90970	0	0	0
SNVTAVHK	IDH3A; IDH3A; IDH3	P50213; H0YMU3	IDH3A	HUM	Unmodified	764830	411330	660120	27323	32878	30286	0	0	0
SNVVDDMVQSNPVLYTPGEEPDHCVVIK	ISYNA1; ISYNA1	Q9NPH2; J3QS51	INO1	HUMA	Oxidation (M)	1069900	0	1130600	0	0	0	0	0	0
SNYNFEKPFLWLAR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	Unmodified	20925000	18598000	18900000	0	0	0	0	0	0
SNYNFEKPFLWLAR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	Deamidation (N)	15962000	15130000	12630000	0	0	0	0	0	0
SNYNFEKPFLWLAR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	2 Deamidation (N)	2571000	1963100	2337800	0	0	0	0	0	0
SNYNFEKPFLWLAR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUMA	Methyl (KR)	439170	0	1616700	0	0	0	0	0	0
SPAFVQLAPLSSK	HCFC1; HCFC1	P51610; A6NEM2	HCFC1	HUM	Unmodified	3207000	2825300	2311100	35944	38295	52147	0	0	0
SPAGLQVLNDYLADK	EEF1B2; EEF1B2; EI	P24534; F2Z2G2;	EF1B	HUMA	Deamidation (N)	3168000	4105100	3311100	0	0	0	0	0	0
SPAGLQVLNDYLADK	EEF1B2; EEF1B2; EI	P24534; F2Z2G2;	EF1B	HUMA	Unmodified	3947600	4224200	4204800	48050	38599	36057	51115	45047	46753
SPAGSPELR	CHAMP1	Q96JM3	CHAP1	HUM	Unmodified	1934100	0	0	47750	113150	50248	0	18579	0
SPAGSQQQFGYSPGQQQTHPQGSPR	MPLKIP	Q8TAP9	MPLKI	HUM	Unmodified	1413900	1235800	2592900	195120	303560	287630	0	0	0
SPAIAAVGPIK	PMPCB	O75439	MPPB	HUM/	Unmodified	2347400	2776100	2825800	58529	46474	59547	0	0	0
SPAIAAVGPIKQLPDFK	PMPCB	O75439	MPPB	HUM/	Unmodified	420400	424050	417820	0	0	0	0	0	0
SPAITATLEGK	UBA3; UBA3	Q8TBC4; F8W8D	UBA3	HUM	Unmodified	1609600	1609000	1340400	35029	26294	30830	0	0	0
SPALKSPLQSVVVR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	1168000	0	0	45256	39200	30052	0	0	0
SPALQVLR	PTCD3	Q96EY7	PTCD3	HUM	Unmodified	1010500	1486000	918770	0	0	0	0	0	0
SPALSDANK	MSH6; MSH6; MSH6	P52701; A0A087\	MSH6	HUM	Unmodified	3842000	3926300	4594800	573110	478940	420840	22974	36569	26863
SPALSDANKASAR	MSH6; MSH6; MSH6	P52701; A0A087\	MSH6	HUM/	Deamidation (N)	659730	0	0	0	0	0	0	0	0
SPALSDANKASAR	MSH6; MSH6; MSH6	P52701; A0A087\	MSH6	HUM/	Unmodified	0	0	0	0	0	0	0	0	0
SPAPGAPTR	MYBBP1A; MYBBP	Q9BQG0; I3L1L3	MBB1A	HUM	Unmodified	3286900	2723000	3953300	209310	283590	0	0	0	0
SPAPPLLHVAALGQK	CCAR2; CCAR2; CC	Q8N163; E5RFJ3;	CCAR2	HUM	Unmodified	14750000	10545000	13108000	390610	311960	0	0	0	0
SPAQILLR	AKR1A1	P14550	AK1A1	HUM	Unmodified	7462300	8001900	8041100	186550	186830	174980	28345	20000	24157
SPASDTYIVFGEAK	NACA; NACA; NAC.	E9PAV3; Q13765	NACAM	HUM	Unmodified	0	1291100	828190	0	0	0	0	0	0
SPAVATSTAAPPPSSPLPSK	UBAP2L; UBAP2L	Q14157; F8W726	UBP2L	HUM	Unmodified	1655000	1257900	1521600	0	0	124930	0	0	0
SPAVLPLGAWVLEGASHPGVR	TESMIN	Q9Y4I5	MTL5	HUMA	Unmodified	0	215550	303210	0	0	0	0	0	0
SPCPEAAAPPPGPR	GPRIN1	Q7Z2K8	GRIN1	HUM/	Unmodified	450850	703520	0	0	0	45859	0	0	0
SPDDPSRYISPDQLADLYK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM/	Unmodified	50703000	34171000	34404000	18065	0	0	0	0	0
SPDEAYAIAK	SUCLA2; SUCLA2; S	P09P2R7; A0A2R8	SUCB1	HUM	Unmodified	770660	0	0	0	0	0	0	0	0
SPDFTNENPLETR	ATP1A1	P05023	AT1A1	HUM	Deamidation (N)	6045300	7743300	7762100	766580	728840	814970	0	0	0
SPDFTNENPLETR	ATP1A1	P05023	AT1A1	HUM	Unmodified	8221900	6783800	7267600	925190	1058000	986510	74155	39423	67707
SPDKPGGSPSASR	NOC2L	Q9Y3T9	NOC2L	HUM	Unmodified	1466100	528400	0	65989	54642	84914	0	0	16964
SPDLLMYQGPPDTAEIIK	MRPS36	P82909	RT36	HUMA	Oxidation (M)	3351700	2479800	3226100	19337	11893	0	11164	0	0
SPDNPMNQR	CCDC124	Q96CT7	CC124	HUM/	Oxidation (M)	408380	332210	443650	23419	0	0	0	0	0
SPDSDVAATLK	EIF5B; EIF5B	O60841; A0A087\	IF2P	HUMA	Unmodified	0	488350	414080	0	0	0	0	0	0
SPDTFVR	ETFA; ETFA; ETFA;	P13804; H0YLU7	ETFA	HUMA	Unmodified	2074000	1913500	1726400	0	0	0	0	0	0
SPDTILQK	EIF2S2	P20042	IF2B	HUMA	Unmodified	907980	0	0	0	0	0	0	0	0
SPDTILQKDTR	EIF2S2	P20042	IF2B	HUMA	Unmodified	682680	650160	870560	0	0	0	0	0	0
SPEAPQPVIAMEEPAVPAPLPK	HCLS1; HCLS1	P14317; E7EVW7	HCLS1	HUM	Oxidation (M)	1108400	931940	850250	211220	168370	166540	81056	101380	85808
SPEDLER	SIX5; GPI; GPI	Q8N196; P06744;	SIX5	HUMA	Unmodified	25223000	26161000	26648000	890770	967440	1286200	0	0	0
SPEEGAETPVYLALLPPDAEGPHGQFVSEK	CBR1	P16152	CBR1	HUMA	Unmodified	13352000	15583000	16258000	0	0	0	0	0	0
SPELPSPQAEK	CLPB; CLPB; CLPB	Q9H078; A0A2U3	CLPB	HUMA	Unmodified	698710	770940	555710	0	28378	0	0	0	0
SPELQAEAK	APOA2; APOA2; API	P02652; V9GYC1	APOA2	HUM	Unmodified	1015900	859770	764920	0	0	0	0	0	0
SPEQQLSATQK	KPNA1; KPNA1; KPI	P52294; C9J4U1;	IMA5	HUMA	Unmodified	1135000	920710	1524500	0	0	0	0	0	0
SPEVLLGSAR	CDK1; CDK1; CDK1	P06493; A0A024(	CDK1	HUM	Unmodified	21207000	15945000	16147000	0	72731	186190	0	0	0
SPFEVQVGPEAGMQK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Oxidation (M)	3422000	3492700	3225800	538670	608500	513070	36630	27745	41532
SPFEVQVSPEAGVQK	FLNC	Q14315	FLNC	HUM	Unmodified	0	0	0	0	0	0	59553	53130	55771
SPFEVQVSPEAGVQKVR	FLNC	Q14315	FLNC	HUM	Unmodified	0	0	0	0	0	0	222960	239190	200410
SPFEVSVDKAQGDASK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	0	680370	908470	0	0	0	0	0	0
SPFEVVVDK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUM	Unmodified	3183700	2925500	2349000	55910	63517	85758	34412	33841	24671
SPFEVVVDKSQGDASK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUM	Unmodified	4132200	4052100	3020000	101030	0	16198	0	0	12165
SPFLQVFNNSPDESSYYR	SEC23B; SEC23B; SI	O15437; A0A2R8	SC23B	HUM/	Deamidation (N)	1269900	1259300	871380	0	0	0	0	0	0
SPFSVAVSPSLDLSK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Unmodified	21676000	16675000	11965000	251530	232710	162060	538730	477870	508170
SPFSVAVSPSLDLSKIK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Unmodified	1397900	1583000	1148400	0	0	0	202360	34284	0
SPFSVAVSPSLDLSKIK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Methyl (KR)	2031900	2010000	2488800	0	0	0	87808	14285	0
SPFTVGVAAPLDLSK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	10400000	7153000	10135000	559370	456310	314990	215950	160100	168260
SPGAAGLTSR	HS1BP3; HS1BP3	Q53T59; F6TR53	H1BP3	HUM	Unmodified	1265000	993170	1309800	0	0	95959	0	0	0
SPGADLLQVLTK	TKFC; TKFC; TKFC	Q3LXA3; I3L252;	TKFC	HUM	Unmodified	3266300	4299200	5622800	0	0	0	0	0	8308.6
SPGIIFIPGYLSYMNGTK	ABHD10	Q9NUJ1	ABHDA	HUM	Oxidation (M);Deai	2361200	1668400	2198200	0	0	0	0	0	0
SPGKAEAESDALPDDTVIESEALPSDIAAEAR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24	HUM	Unmodified	9021900	5439200	8057300	0	0	0	0	0	0
SPGLYFLTAGDQGTLR	TBL3; TBL3; TBL3	Q12788; J3KNP2;	TBL3	HUMA	Unmodified	1754900	597020	2522300	0	0	0	0	0	0
SPGMLEPLGSSR	SRRM2	Q9UQ35	SRRM2	HUM	Oxidation (M)	609520	598570	2442300	16704	0	0	0	0	0
SPGPIVSR	ZC3HC1; ZC3HC1	Q86WB0; C9J0I9	NIPA	HUMA	Unmodified	203420	577620	572410	72124	75420	0	11045	0	0
SPHQLLSPSSFSPSATPSQK	POLA2; POLA2; N/A	Q14181; E9PIQ6;	DPOA2	HUM	Unmodified	490060	651280	699910	0	0	0	0	0	0
SPIAPEELALVHNLR	DAP3; DAP3; DAP3;	P51398; V9GYW1	RT29	HUMA	Unmodified	967800	658550	795110	0	0	0	0	0	0
SPIEPSALEPAYYQGVYSRPVLNTS	FOXA1	P55317	FOXA1	HUM	Unmodified	2930300	0	0	0	0	0	0	0	0
SPILLGSLAHQIYR	HIBADH	P31937	3HIDH	HUM	Unmodified	2112000	1493000	1904500	0	0	0	0	0	0
SPKDNVDDPTGNFR	LMAN2	Q12907	LMAN2	HUM	Unmodified	1475300	1392100	958400	94017	74426	123910	0	0	0
SPKGEFKDEEETVTTK	CLINT1	Q14677	EPN4	HUMA	Unmodified	784390	855950	0	53302	0	0	0	0	0
SPLAGDFITMQCR	ACTL6A	O96019	ACL6A	HUM	Oxidation (M)	1217300	0	867360	54546	0	0	0	0	0
SPLAQMEEER	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM/	Oxidation (M)	1792200	1631500	1915100	200390	0	0	0	0	0
SPLAQMEEERR	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM/	Oxidation (M)	2462400	3317700	4375100	112880	139620	0	0	0	0
SPLAQMEEERREHVAK	SEPTIN7; SEPTIN7;	Q16181; E7EPK1;	SEPT7	HUM/	Oxidation (M)	4828500	4464300	3256800	0	478390	317400	0	0	0
SPLFGQYFVLENPGTIK	MTARC1; MTARC1	Q5VT66; H7BYZ5	MARC1	HUM	Unmodified	1109400	1006500	417760	0	0	0	0	0	0
SPLFSVQR	GTF3C2; GTF3C2	Q8WUA4; A0A08	TF3C2	HUM	Unmodified	648230	2000800	635740	94999	67926	42008	0	0	0
SPLGEAPPGTPPCR	ZNF428; ZNF428	Q96B54; M0QXZ:	ZN428	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SPLGEVAIR	CPNE3	O75131	CPNE3	HUM	Unmodified	2100400	2790300	2918000	0	0	12493	0	7732.6	8558.2
SPLGEVAIRDIVQFVPFR	CPNE3	O75131	CPNE3	HUM	Unmodified	249300	0	0	0	0	0	0	0	0
SPLLAGGSPPQPVVPAHK	NUP35; NUP35; NUI	Q8NFH5; F8WCF	NUP35	HUM	Unmodified	1039300	788360	998350	59956	53856	60305	0	0	0
SPLLQLPHIEEDNLR	SEC63	Q9UGP8	SEC63	HUM	Unmodified	0	1805700	2167400	0	0	0	0	0	0
SPLPWQHRLEGDTLIIPR	HSPG2	P98160	PGBM	HUM	Unmodified	0	604240	1094700	0	0	0	35576	0	0
SPLQSVVVR	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	7077200	4290800	5179400	409560	394190	486890	0	35535	0
SPLSALAR	MYBBP1A; MYBBP	Q9BQG0; I3L2H8	MBB1A	HUM	Unmodified	627120	775180	617670	0	11998	20714	0	0	0
SPLSGIPVR	SPECC1; SPECC1; S	Q5M775; A0A7P(	CYTSB	HUM	Unmodified	2035200	2306300	538630	96584	106420	0	0	0	0
SPLSLIAR	ELAVL3	Q14576	ELAV3	HUM	Unmodified	1082400	711900	1082400	0	0	0	0	0	0
SPLSQGDSSAPSLPK	CREBBP	Q92793	CBP	HUMA	Unmodified	663540	0	0	0	0	0	0	0	0
SPLTGYVR	HMG20A; HMG20A;	Q9NP66; H0YKM	HM20A	HUM	Unmodified	1106300	964600	993050	28193	21495	33979	0	0	0
SPLTILQDDNSPGTLTLR	CDCA3; CDCA3	Q99618; J3KMY0	CDCA3	HUM	Unmodified	1288800	428950	1332000	0	0	0	0	0	0
SPLVMDVLNIQGVQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	233590	405300	364290	0	0	0	0	9722.2	0
SPNDLLALFR	PXDN; PXDN	Q92626; H7C1W1	PXDN	HUM/	Unmodified	410850	333060	420700	0	0	0	0	0	0
SPNPSTPR	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1	HUM	Unmodified	3888700	3852400	4508200	0	0	0	0	0	0
SPPEMSLLHDVGPGTTIK	CRACDL; CRACDL;	Q6NV74; C9JXD6	CRCDL	HUM	Oxidation (M)	2158500	2111600	2425100	0	21271	0	0	0	0
SPPFFENLTLDLQPPK	ACO1	P21399	ACOC	HUM	Unmodified	672480	208630	362840	0	0	0	0	0	0
SPPFSLATALPVLR	UBXN2A	P68543	UBX2A	HUM	Unmodified	599170	687280	652240	0	0	0	0	0	0
SPPILPTLDSLK	MTPAP	Q9NVV4	PAPD1	HUM	Unmodified	1634600	1549300	1875700	18421	17164	15089	0	0	0
SPPIPLAK	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM	Unmodified	17923000	13223000	13846000	1358600	1225700	1263800	109690	119160	127090
SPPIPLAKVDATAETDLAK	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM/	Methyl (KR)	859300	1065600	2857700	36669	16589	0	0	0	0
SPPIPLAKVDATAETDLAK	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM/	Unmodified	812070	759260	2377800	33215	26101	0	12432	0	0
SPPLIGSESAYESFLSADDKASGR	MAP1B	P46821	MAP1B	HUM	Unmodified	5856600	5652500	5618200	36218	0	0	0	0	25346
SPPPGMGLNQNR	SFPQ	P23246	SFPQ	HUMA	Oxidation (M);Deai	3547400	3556900	3289300	376690	0	301160	0	0	0
SPPPGMGLNQNR	SFPQ	P23246	SFPQ	HUMA	Oxidation (M);2 De	674420	0	880790	0	0	0	0	0	0
SPPPGMGLNQNR	SFPQ	P23246	SFPQ	HUMA	Oxidation (M)	2113900	2093700	1911100	112640	77467	116870	31684	0	0
SPPREGSQGELTPANSQSR	GPS1; GPS1; GPS1; C	Q13098; A8K070;	CSN1	HUMA	Deamidation (N)	0	695650	766710	90144	43662	54110	0	0	0
SPPSSSEIFTPAHEENVR	MCRIP1; MCRIP1; N	C9JLW8; I3L2L5;	MCRI1	HUM	Unmodified	8490600	7301100	8378400	246460	248940	223700	0	0	0
SPPTVLVICGPGNNGGDGLVCAR	NAXE; NAXE; NAXI	Q8NCW5; A0A7P	NNRE	HUM/	2 Deamidation (N)	292140	0	536300	0	0	0	0	0	0
SPPTVLVICGPGNNGGDGLVCAR	NAXE; NAXE; NAXI	Q8NCW5; A0A7P	NNRE	HUM/	Deamidation (N)	3201700	2900830	404960	0	0	0	0	0	0
SPPVMVAGGR	FLOT1; FLOT1; FLO	O75955; A2AB12	FLOT1	HUM	Oxidation (M)	899880	1414100	1644200	44664	56831	56050	0	14739	0
SPPYQLDSQGR	BCAM; BCAM; BCA	P50895; A0A087\	BCAM	HUM	Unmodified	1365100	986370	1472800	0	0	0	0	17533	0
SPQDLASTSR	CBX8; CBX8; CBX8	Q9HC52; C9JM54	CBX8	HUM	Unmodified	2048800	2430300	3307100	0	106450	109920	0	9897.5	0
SPQEEALQR	ARHGEF2; ARHGEF	Q92974; V9GYM	ARHG2	HUM	Unmodified	1620800	1433500	1278300	44385	35537	0	21510	20644	16366
SPQFINLK	PHF3	Q92576	PHF3	HUMA	Unmodified	520000	657370	0	0	0	0	0	0	0
SPQGLGAFTPVVR	PTPRS; PTPRS	Q13332; G8JL96	PTPRS	HUM	Unmodified	0	0	0	103770	710580	649250	82266	0	74408
SPQLDALK	ERMP1	Q7Z2K6	ERMP1	HUM	Unmodified	292770	269460	200570	0	0	0	0	0	0
SPQMVSAIVR	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1	HUM	Oxidation (M)	1734000	1591200	1535000	308360	370100	325670	30438	39642	37559
SPQNQYPAELMR	MCM7; MCM7	P33993; C9J8M6	MCM7	HUM	Oxidation (M)	5589700	4039600	3763700	131550	0	0	0	0	0
SPQNQYPAELMR	MCM7; MCM7	P33993; C9J8M6	MCM7	HUM	Oxidation (M);Deai	6416000	5543600	5702000	0	0	0	0	0	0
SPQQSAALPR	NCAPH2; NCAPH2;	Q6IBW4; A0A0A	CNDH2	HUM	Unmodified	545870	455530	859270	0	0	0	0	0	0
SPQQVLPSPDGR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM/	Unmodified	0	2575700	1133900	63725	0	0	0	0	0
SPQQVLPSPDGRR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO	HUM/	Unmodified	1486800	5460100	7286400	0	0	0	0	0	0
SPQTPELVEALAFR	FAM120A; FAM120/	Q9NZB2; A0A0C	F120A	HUM/	Unmodified	450250	402560	439040	0	0	0	0	0	0
SPQVKPASTMGMGPLGK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	2 Oxidation (M)	0	0	1356000	92833	103020	0	30743	26445	0

SPQVPAAQQMLNFPEK	SMARCC1	Q92922	SMRC1_HUM	Oxidation (M)	2187500	979410	1450200	0	0	0	0	0	0
SPQYCQVIHR	SELENBP1; SELENB	Q13228; A6PVX1	SBP1_HUMA	Unmodified	2731200	1398200	487780	192470	366030	463300	0	0	0
SPRPTGSDLLPGAPILSLR	STK11IP	Q8N1F8	S11IP_HUMA	Unmodified	926500	705520	908190	0	0	0	0	0	0
SPRPTSAPAITQGQVAEGGVLDASAK	EPB41; EPB41; EPB4	P11171; A0A2R8	EPB41_HUM	Unmodified	1019100	1750100	1531100	102820	64026	92993	0	0	0
SPSAQLMEQVAQLK	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1_HUM	Oxidation (M)	728980	816310	872380	0	0	0	0	0	0
SPSDEYKDNLHQVSKR	MRTO4	Q9UKD2	MRT4_HUMA	Unmodified	0	662560	1229800	0	0	0	0	0	22093
SPSDPSHVSVPPPPLLLPAATTR	PHC3; PHC3; PHC3	Q8NDX5; E7EX8	PHC3_HUMA	Unmodified	964140	726040	549530	0	0	0	0	0	0
SPSDSSTASTPVAEQIER	DBN1; DBN1	Q16643; D6R9Q9	DREB_HUMA	Unmodified	9109100	5831000	6207000	0	94188	0	0	15311	0
SPSGGAAGPLLTPSQSLDGSR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	3275400	2349300	2041900	160340	0	184170	0	47210	0
SPSGGAAGPLLTPSQSLDGSRR	KCTD12	Q96CX2	KCD12_HUM	Unmodified	9646000	5073200	6382400	268270	254460	249700	0	38580	43155
SPSGSAFGSQENLR	DOCK7; DOCK7	Q96N67; A0A1B0	DOCK7_HUM	Unmodified	1087500	1010500	363390	0	0	0	0	0	0
SPSKPLPEVTDEYKNDVK	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Deamidation (N)	3375300	3240800	3985700	0	119390	52274	0	0	0
SPSKPLPEVTDEYKNDVK	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Unmodified	704760	820060	1030800	0	0	0	0	0	0
SPSKPLPEVTDEYKNDVKNR	SSB; SSB; SSB; SSB	P05455; E9PFL9;	LA_HUMAN	Deamidation (N)	3327000	3658200	3037200	174260	252970	0	0	0	0
SPSLDNPTPFPNLGPSENPLK	IRF3; IRF3; IRF3; IRI	Q14653; M0QZB3	IRF3_HUMA	Unmodified	323940	764720	309560	0	0	0	0	0	0
SPSLDNPTPFPNLGPSENPLKR	IRF3; IRF3; IRF3; IRI	Q14653; M0QZB3	IRF3_HUMA	Unmodified	4941800	460820	3951500	0	0	0	0	0	0
SPSLGSDLTFATR	SNTB2	Q13425	SNTB2_HUM	Unmodified	0	0	0	101120	0	84711	43352	0	61058
SPSLLQSGAK	MYBBP1A; MYBBP	Q9BQG0; I3L2H8	MBB1A_HUM	Unmodified	1299000	0	560950	0	0	0	0	0	0
SPSLSPSPPSPLEKTPLGER	MAP1B	P46821	MAP1B_HUM	Unmodified	905660	0	0	0	0	0	0	0	0
SPSLSQSQASR	ADNP; ADNP; ADNP	Q9H2P0; A0A669	ADNP_HUMA	Unmodified	1500800	230540	192620	0	0	54391	0	0	0
SPSNKDAALLEAAR	CLPB; CLPB; CLPB;	Q9H078; A0A2R8	CLPB_HUMA	Unmodified	809290	817730	783030	0	0	0	0	0	0
SPSSLLIANLHLQ	FAM91A1	Q658Y4	F91A1_HUM	Unmodified	0	0	401680	0	0	0	0	0	0
SPSTLLPK	MAP4; MAP4; MAP4	P27816; H7C4C5;	MAP4_HUM	Unmodified	1469800	1361200	1810600	267480	355520	394260	55278	87783	48907
SPSTTYLHTPTPSEDAAIPSK	CHAF1A	Q13111	CAF1A_HUM	Unmodified	741390	793640	955510	0	0	0	0	0	0
SPSWTAPPVIALQNGLSEDEALQR	ZFAND2B; ZFAND2	Q8WV99; A0A08	ZFN2B_HUM	Deamidation (N)	162180	89682	143350	0	0	0	0	0	0
SPTLVIAYLMMR	DUSP3; DUSP3	P51452; K7ELG5	DUS3_HUMA	2 Oxidation (M)	909310	384870	833670	0	0	0	0	0	0
SPTLYGISHDDLK	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	807340	0	1053900	0	0	0	0	0	0
SPVAKDVDLEFLAK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1769000	1125500	1526900	28527	30289	0	0	0	0
SPVAVQSTK	ECH1; ECH1	Q13011; M0R248	ECH1_HUMA	Unmodified	11012000	12770000	12037000	60178	54244	50512	25950	0	0
SPVDIVTGGISPVR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	1620800	1504000	1456300	25755	26135	0	0	0	0
SPVDIVTGGISPVRDLDR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	3027700	5766200	3511700	28235	0	0	38833	0	0
SPVESTTEPPAVR	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	4503400	5775900	7014300	380540	545340	587810	0	0	0
SPVISIDPPSSTVQQGQDASFK	HSPG2	P98160	PGBM_HUM	Unmodified	0	0	0	244860	404470	224640	117530	50230	104590
SPVLSRRDSPLQGSGQQNSQAGQR	MAP4K4; MAP4K4;	O95819; C9J840;	M4K4_HUMA	3 Methyl (KR)	688920	0	0	0	0	0	0	0	0
SPVPFLGR	SARDH; SARDH; SA	Q9UL12; Q5SYV7	SARDH_HUM	Unmodified	394960	971750	328530	0	0	0	0	0	0
SPVSPLAAQGIPLPAQLTK	KCTD15; KCTD15; K	Q96SI1; K7EN63;	KCD15_HUM	Unmodified	0	455870	364080	0	0	0	0	0	0
SPVTFLSDLR	CNOT1	A5YKK6	CNOT1_HUM	Unmodified	1334200	2119400	556150	0	9389.3	0	0	0	0
SPVTNIAR	AP2M1; AP2M1; AP2	Q96CW1; C9JTK4	AP2M1_HUM	Unmodified	1233400	1134800	1202100	0	173110	168520	0	22830	0
SPVTTLLECMHK	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD_HUM	Oxidation (M)	812910	471270	554260	106790	0	0	0	0	0
SPVYLTVLK	NPEPPS; NPEPPS; N	P55786; A0A7I2	PSA_HUMAN	Unmodified	2859400	3336300	3024700	61467	0	0	0	0	0
SPWSNKYDPPLEDGAMPSAR	CAPZB; CAPZB; CA	P47756; A0A6B	CAPZB_HUM	Oxidation (M)	4770600	5801700	6897200	244400	210430	62222	0	0	21077
SPWSNKYDPPLEDGAMPSAR	CAPZB; CAPZB; CA	P47756; A0A6B	CAPZB_HUM	Oxidation (M);Deai	1005200	2934900	2332200	29874	49470	75735	0	0	0
SPYLYPLYGLGELPQGFAR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Unmodified	18955000	20660000	25669000	15718	0	15519	0	0	0
SPYQEFTDHLVK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Unmodified	33841000	34673000	29010000	578030	588750	524220	54613	44583	34809
SPYQLVLQHSR	TGFBI	Q15582	BGH3_HUMA	Unmodified	1327300	1294500	1902000	111830	86375	107140	199550	131840	157510
SPYTLDSLYWSVKPASSSFGSEAK	LAS1L; LAS1L; LAS	Q9Y4W2; A0A7I2	LAS1L_HUM	Unmodified	1808700	2413500	2217300	0	0	0	0	0	0
SPYTVTVGQACNPSACR	FLNA; FLNA; FLNA;	P21333; F8WE98;	FLNA_HUMA	Unmodified	825680	618980	598780	0	91777	0	299400	349500	295650
SQAADQITKLYNLFLK	SUCLG2; SUCLG2	Q96I99; E9PDQ8	SUCB2_HUM	Unmodified	426570	363810	302420	0	0	0	0	0	0
SQAASILTK	SMC2	O95347	SMC2_HUMA	Unmodified	1609100	3125400	2407500	0	0	0	0	0	0
SQAEFEKAAEEVR	DBI	P07108	ACBP_HUMA	Acetyl (Protein N-t	5147200	6967100	9265000	394550	121500	294250	26061	18269	27812
SQAEFEKAAEEVRHLK	DBI	P07108	ACBP_HUMA	Acetyl (Protein N-t	18883000	18077000	2062600	1249700	1072400	47655	2893800	1262000	1863800
SQAFIEMETR	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	Oxidation (M)	8356400	7362100	7337000	162540	171150	0	0	0	0
SQALIEELLLYK	RPRD2	Q5VT52	RPRD2_HUM	Unmodified	0	244140	319880	0	0	0	0	0	0
SQALIEELLLYKR	RPRD2	Q5VT52	RPRD2_HUM	Unmodified	1177700	866140	1602200	0	0	0	0	0	0
SQALLERDGLAEEVQR	INA	Q16352	AINX_HUMA	Unmodified	883260	580200	1227300	0	0	0	0	0	0
SQAPGQPGASQWGSR	DAZAP1; DAZAP1; I	Q96EP5; K7EK33	DAZP1_HUM	Unmodified	2273600	2337300	0	205290	257650	232330	0	57531	67300
SQAPLESSLDSLGDVFLDSGR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	2253200	859440	2275900	0	0	0	0	0	0
SQAPLESSLDSLGDVFLDSGRK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	10181000	5672500	10358000	0	0	0	0	0	0
SQAPVLDAIR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	3026600	2631800	2694800	194130	183290	174690	80393	67735	0
SQAPVLDAIRR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	0	0	2878400	101870	0	162350	0	0	0
SQAVEKPPSEKPR	CENPV; CENPV	Q7Z7K6; A0A0M	CENPV_HUM	Unmodified	0	0	1829300	0	0	0	0	0	0
SQDADSPGSSGAPENLTFKER	AFDN; AFDN; AFDN	P55196; H0Y948;	AFAD_HUMA	Unmodified	0	0	266450	366400	242420	285670	0	0	0
SQDATFSPGSEQAEKSPGPIVSR	ZC3HC1; ZC3HC1	Q86WB0; C9J0J9	NIPA_HUMA	Unmodified	1775200	2231400	2212300	611240	557490	494880	82427	92287	106170
SQDDAMVDYFFQR	PUM1; PUM1; PUM1	Q14671; E9PL65;	PUM1_HUMA	Oxidation (M)	961220	1061600	1251300	41244	42145	0	0	0	0
SQDFGNLFSFPSYSQK	TOP2B	Q02880	TOP2B_HUM	Unmodified	1041800	930850	1196100	0	0	0	0	0	0
SQDHFHVFVGDLSPEITTEDIK	TIA1; TIA1; TIA1	P31483; E5RGV5	TIA1_HUMA	Unmodified	969230	784170	531520	0	0	0	0	0	0
SQEELREDKAYQLER	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUMA	Unmodified	3915100	3550100	3117300	253340	336540	451850	0	18348	0
SQEEPKDTFEHDPSESIDEFNK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	2057800	1937200	1377500	132270	0	17658	0	0	0
SQEGRPVQVIGALIGK	COPS6; COPS6	Q7L5N1; E7EM64	CSN6_HUMA	Unmodified	1176300	1060300	745720	0	0	0	0	0	0
SQEGRPVQVIGALIGKQEGR	COPS6; COPS6	Q7L5N1; E7EM64	CSN6_HUMA	Unmodified	428940	315510	267710	0	0	0	0	0	0
SQEQEVLER	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT4	ACINU_HUM	Unmodified	3235900	4540800	4694100	767450	820580	797350	0	0	0
SQEQLAAELAEYTAK	EZR; EZR	P15311; E7EQR4	EZRI_HUMA	Unmodified	5507400	6369300	2787200	273250	212920	159910	0	0	0
SQEQPLLQPK	UNK	Q9C0B0	UNK_HUMA	Unmodified	690310	1378700	839060	0	0	0	0	0	0
SQESGYYDR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	2919500	3674800	4878100	155660	133830	162330	0	0	0
SQESGYYDRMDYEDDRLRDGER	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Oxidation (M)	2461500	1537800	3510400	0	0	0	0	0	0
SQETECTYFSTPLLLGK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	2450400	2586100	2584400	84258	25687	18471	40166	29011	23564
SQEVAYTDIK	GSK3A; N/A; GSK3A	P49840; M0QYV0	GSK3A_HUM	Unmodified	0	0	875800	0	0	0	0	0	0
SQFFEQGSSDSVVPDLPVPTISAPSR	LMO7; LMO7; LMO	Q8WWI1; E9PMP	LMO7_HUM	Unmodified	704290	692260	928560	0	0	0	0	0	0
SQFSDKPVQDR	CHID1; CHID1; CHI	Q9BWS9; E9PPH	CHID1_HUM	Unmodified	1237900	1584200	1423500	177330	247850	215420	0	0	0
SQFTITPGSEQIR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	4970300	3902300	4502000	319170	275630	201860	0	0	0
SQGCSEQVLTVLK	PRKDC	P78527	PRKDC_HUM	Unmodified	1473700	1745700	1311800	41432	42739	39832	0	0	0
SQGGEPTYNVAVGR	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2_HUM	Unmodified	24964000	22393000	22240000	968680	1243900	975430	29406	0	0
SQGGEPTYNVAVGR	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2_HUM	Deamidation (N)	0	764940	1367100	0	0	0	0	0	0
SQGKPIELTPLPLLK	PPP2R5E	Q16537	2A5E_HUMA	Unmodified	0	0	3784600	26290	0	0	0	0	0
SQGMASLNLPAVSWK	CTNNA1; CTNNA1	P35221; E5RGY7	CTNA1_HUM	Oxidation (M)	2355000	2010400	1649000	79636	31192	46347	0	0	0
SQGPLEVAEAAVSQSSGLAAK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	3523300	149610	3663200	0	0	0	0	0	0
SQGSQAELHPLPQLK	PPP2R5A	Q15172	2A5A_HUMA	Unmodified	439210	694660	501090	110910	84078	97430	0	0	0
SQGYRDGPGNPLR	USP7; USP7; USP7	Q93009; A0A669	UBP7_HUMA	Unmodified	570140	526220	545240	0	0	0	0	0	0
SQHPYVLTEDTLK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	3127000	3402500	3561300	133120	142650	138220	0	0	45798
SQHQETPVYLGATAGMR	ENTPD1; ENTPD1	P49961; A0A0U1	ENTP1_HUM	Oxidation (M)	1206800	2118600	1433000	167660	143080	212620	133940	114770	66064
SQHYDLVLNGNEIGGGSIR	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM_HUM	2 Deamidation (N)	1168400	1044100	649670	0	0	0	0	0	0
SQHYDLVLNGNEIGGGSIR	DARS2; DARS2; DA	Q6PI48; A0A3B3	SYDM_HUM	Deamidation (N)	564960	336700	550230	0	0	0	0	0	0
SQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	49700000	44908000	42252000	1835500	1775300	1812400	0	134480	117280
SQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Deamidation (N)	2719300	0	5841400	53389	108390	93155	0	0	0
SQIFSTASDNQPTVTIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	390750	283510	293650	0	0	0	0	0	0
SQIGNTESELK	GDAP1; GDAP1; GD	Q8TB36; A0A6Q8	GDAP1_HUM	Unmodified	893200	806450	1005200	0	0	0	0	0	0
SQIGNTESELKKLAAENPDLQEAYIAK	GDAP1; GDAP1; GD	Q8TB36; A0A6Q8	GDAP1_HUM	Unmodified	1022800	847170	790410	0	0	0	0	0	0
SQIHDIVLVGGSTR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C_HUM	Unmodified	28495000	33323000	28616000	110530	96968	95841	0	37129	0
SQISSLSSTER	MACO1	Q8N5G2	MACOI_HUM	Unmodified	457920	899830	0	0	52033	0	0	0	0
SQISTESFLHLR	OPLAH	O14841	OPLA_HUMA	Unmodified	2648500	1469700	1608800	0	0	32206	0	0	11618
SQIYGSR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	31019000	24983000	630240	4847300	5804400	6115100	672950	808810	693810
SQKEEDEQEDLTKDMEDPTPVPNIEEVVLPK	SMARCC1	Q92922	SMRC1_HUM	Oxidation (M)	2756600	1919600	2555700	0	0	0	0	0	0
SQKQEEENPAEETGEEKQDTQEK	ENSA; ENSA; ENSA;	O43768; A0A1W2	ENSA_HUMA	Acetyl (Protein N-t	0	1906800	2185900	0	0	0	0	0	0
SQLDLFDDVGTFASGPPK	ARFGAP2; ARFGAP	Q8N6H7; H0YDN	ARFG2_HUM	Unmodified	3139300	3193600	2835200	8848.8	0	0	0	0	0
SQLEAIFLR	PLD3; PLD3	Q8IV08; M0R3G9	PLD3_HUMA	Unmodified	1569600	1049600	2929500	12015	13783	17503	0	0	0
SQLEEKENKKFPVFK	CSTB; CSTB	P04080; A0A1W2	CYTB_HUMA	Unmodified	2844300	3376700	4367200	99767	42962	0	0	0	0
SQLEEKENKKFPVFK	CSTB; CSTB	P04080; A0A1W2	CYTB_HUMA	Deamidation (N)	2023700	1949600	1676600	0	0	0	0	0	0
SQLEESISQLR	APOO; APOO; APOC	Q9BUR5; G3V1B9	MIC26_HUM	Unmodified	1324000	1235900	4123600	48128	96564	78965	0	0	0
SQLETSLK	AKR7L; AKR7A2; A	Q8NHP1; O43488	ARK74_HUM	Unmodified	1641200	1542700	1397800	33868	43083	52417	0	0	0
SQLIMQAEAEAASVR	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1_HUM	Oxidation (M)	956730	0	0	0	0	0	0	0	0
SQLLGSAHEVQR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	10363000	10071000	9550800	596070	568830	791780	28448	23432	27929
SQLLILDR	STXBP1; STXBP1; S	P61764; A0A1B0	STXB1_HUM	Unmodified	4518500	4165200	4020900	217830	208390	189520	26873	0	0
SQLLIMDR	STXBP2; STXBP2	Q15833; M0R0M7	STXB2_HUM	Oxidation (M)	2029300	2271000	0	267330	296630	299050	0	0	0
SQLLSYIDR	MCM7	P33993	MCM7_HUM	Unmodified	3954100	3822500	2680900	0	0	0	7088.2	0	0
SQLLSYIDRLAPR	MCM7	P33993	MCM7_HUM	Unmodified	4227100	3604500	4744500	0	0	0	0	0	0
SQLQISNNR	DSP	P15924	DESP_HUMA	Unmodified	603030	0	438160	0	0	0	0	0	0
SQLQISNNR	DSP	P15924	DESP_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
SQMAAVEPER	ATP2A3	Q93084	AT2A3_HUM	Oxidation (M)	541280	453550	758570	0	0	0	0	0	0
SQMAAVEPERTPLQR	ATP2A3	Q93084	AT2A3_HUM	Oxidation (M)	1746200	2380200	2221800	0	0	0	0	0	0
SQMDGLIPGVEPR	NOP58	Q9Y2X3	NOP58_HUM	Oxidation (M)	24722000	20549000	18876000	834500	747900	817330	0	30383	21666
SQMFEGVAR	LIMCH1; LIMCH1; L	Q9UPQ0; H0YKP	LIMC1_HUM	Oxidation (M)	0	893960	1209800	118780	0	191550	0	0	0
SQMLAMNIEK	EIF3E; EIF3E; EIF3E	P60228; B3KW56	EIF3E_HUMA	2 Oxidation (M)	0	0	0	0	0	0	0	0	0
SQMLLSR	NIPSNAP1; NIPSNAI	Q9BPW8; C9JDV	NIPS1_HUMA	Oxidation (M)	2096800	1750100	2011300	131080	199950	137430	0	40731	27568
SQNFRKSTTQASSHNPGEPGR	SARG	Q9BW04	SARG_HUMA	2 Methyl (KR);Dea	1287300	1367500	1666900	0	0	0	0	0	0
SQNGGEPDFHAVEPYTKK	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Deamidation (N)	1022800	764910	1047200	22235	16500	24674	0	0	0
SQNIVTDSSSLSAEAIR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	833080	1011400	806900	54958	0	46124	0	0	0
SQNLRRLQAQRNELNAK	PSMC5; PSMC5; PS	P62195; J3QQM1;	PRS8_HUMA	Methyl (KR);3 Dea	376090	0	0	0	0	0	0	0	0
SQNTPDSSASNLGFR	SUMF1; SUMF1	Q8NBK3; E9PF05	SUMF1_HUM	Unmodified	829370	823170	646870	140140	205900	229890	0	0	0
SQNVMAAASIANIVK	TCP1; TCP1; TCP1;	P17987; F5GZJ8;	TCPA_HUMA	Oxidation (M)	2721100	2888500	4842600	46251	0	38795	0	0	0
SQPAILLLTAAR	TOR1AIP1; TOR1AIF	Q5JTV8; A0A0A0	TOIP1_HUM	Unmodified	3462500	2587300	2984600	0	45660	38685	0	0	0
SQPAPAEFR	MPST; MPST	P25325; B1AH49	THTM_HUM	Unmodified	3723000	4378300	2341800	255410	191550	150070	0	0	0
SQPEPSPVLSQLSQR	UBAP2; UBAP2	Q5T6F2; A2A305	UBAP2_HUM	Unmodified	819400	764520	892110	0	0	26582	0	0	0

SQPERDWVLNEFR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Unmodified	1681800	433750	1365700	0	0	0	0	0	0
SQPSKTLFVK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	5561200	4715400	6369200	1977600	1583500	1700100	160410	242410	0
SQPVYIQYSNHR	PTBP3; PTBP3	O95758; X6R242	PTBP3	HUM	Deamidation (N)	1768300	1625300	1343100	75085	0	0	0	0	0
SQQLEFKLEER	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1109200	1157600	1259000	0	0	0	0	0	0
SQQPLKPQVHTPVATVK	SCYL2; SCYL2	Q6P3W7; A0A0U	SCYL2	HUM	Unmodified	965520	726080	914250	23763	26842	33460	0	0	0
SQQQFLIHQQSGEQK	ANKRD50	Q9ULJ7	ANR50	HUM	Unmodified	646450	521110	635580	0	0	24126	0	0	0
SQQQPTPVTPK	KAT7; KAT7	O95251; A0A6Q8	KAT7	HUM	Unmodified	1684700	1497300	2477800	0	0	0	0	0	0
SQQQQLVESLHK	NUP54	Q7Z3B4	NUP54	HUM	Unmodified	953430	829180	977510	0	0	0	0	0	0
SQQSAGKEYVGIVR	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1	HUM	Unmodified	0	0	1041500	0	131270	0	70426	56372	66900
SQQSEVTR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Unmodified	9968400	11093000	11032000	966810	0	988760	0	0	0
SQQSKPQDASCLPALK	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP	HUM	Unmodified	642480	384340	737730	0	47231	0	0	0	0
SQQTLDTPK	UBAP2; UBAP2	Q5T6F2; H0YDN	UBAP2	HUM	Unmodified	934730	990190	0	0	0	0	0	0	0
SQRPEESEPLEK	NT5DC1	Q5TFE4	NT5D1	HUM	Unmodified	1984300	2026200	0	0	0	0	91158	33867	0
SQRPSLEEEPEEEPGEGGTR	PPP1R3E	Q9H7J1	PPR3E	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SQSAAVTPSSTTSSTR	ADRM1; ADRM1	Q16186; A0A087	ADRM1	HUM	Unmodified	2694900	3168700	3698100	592050	662450	702160	0	0	0
SQSFSEAEPQLPPAPVRGGSSR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	0	0	0	0	0	0	0	122100	0
SQSGGYSDR	CIRBP; CIRBP; CIRE	Q14011; K7EPM4	CIRBP	HUM	Unmodified	5781100	1969900	6250700	2201800	2591000	2387200	0	0	0
SQSIDTPGVISR	SIN3A; SIN3A	Q96ST3; H3BP90	SIN3A	HUM	Unmodified	2669500	0	2932900	0	0	0	0	0	0
SQSSHSYDDSTLPLIDR	CTNND1; CTNND1;	O60716; H0YC95	CTND1	HUM	Unmodified	0	872860	656920	93169	116220	0	0	0	0
SQSVPGAWPGASPLSSQPLSGSSR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	0	510800	0	134350	124430	89787	302460	220560	231860
SQSVRPGADVTFICTAK	HSPG2	P98160	PGBM	HUM	Unmodified	1829200	2333500	0	587010	609250	546260	0	0	119430
SQTGWPR	NUDT21	O43809	CPSF5	HUM	Unmodified	3402300	3850900	3358600	63324	81575	74195	0	15810	0
SQTPSERPTAQDVLETYQK	POMK; POMK; POM	Q9H5K3; A0A6Q	SG196	HUM	Unmodified	1384700	1465400	1197300	0	0	0	0	0	0
SQVDAQLLTVQKLEEKER	RNF40; RNF40; RNF	O75150; H3BP71	BRE1B	HUM	Unmodified	1039300	834270	1210100	0	0	0	0	0	0
SQVDKLTLTSR	OAT	P04181	OAT	HUMA	Unmodified	1920400	2179700	2648900	22478	36636	0	0	0	0
SQVDRLVALAR	ISOC2; ISOC2; ISOC	Q96AB3; K7EKW	ISOC2	HUM	Unmodified	1037100	880840	0	0	0	46672	0	0	0
SQVEEELFSVR	PLEC	Q15149	PLEC	HUM	Unmodified	367400	2065600	3400600	181160	499890	566040	25153	0	0
SQVEPADYKADEDPALFQSVK	PITPNB; PITPNB; PI	P48739; A0A0A0	PIPNB	HUM	Unmodified	1048900	0	0	108610	46358	66186	0	0	0
SQVFSTAADGQTQVEIK	HSPA9; HSPA9; HSP	P38646; A0A7I2	GRP75	HUM	Unmodified	4491400	3632600	3813600	83763	90009	173370	34683	0	0
SQVMDEATALQLR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	3358300	3751500	0	0	0	0	0	0	0
SQVTSTPISKPPPPLETSLPFLTIPENR	KANK1	Q14678	KANK1	HUM	Unmodified	801680	557280	667310	0	0	0	0	0	0
SQVVAGTNYFIK	CSTB; CSTB	P04080; A0A1W2	CYTB	HUMA	Deamidation (N)	3775500	3310700	3913000	24635	0	21489	0	0	0
SQVVAGTNYFIK	CSTB; CSTB	P04080; A0A1W2	CYTB	HUM	Unmodified	5985200	4862500	6263800	95121	0	0	0	0	0
SQVVFSAEELIYPDRR	PLOD1; PLOD1; PLC	Q02809; Q5JXB8;	PLOD1	HUM	Unmodified	963660	0	915630	0	0	0	0	0	0
SQWSPALTISK	UBE2D3; UBE2D2; U	P61077; P62837; I	UB2D3	HUM	Unmodified	5283700	1704100	0	0	0	0	0	0	0
SQYLQLGPSR	CRTC1; CRTC1	Q6UUV9; M0QX4	CRTC1	HUM	Unmodified	2324300	1287900	1376800	0	0	0	0	0	0
SRAEAALEEESR	SMARCE1; SMARCE	Q969G3; A0A2R8	SMCE1	HUM	Unmodified	3723000	3123900	4322000	121460	66115	0	0	0	0
SRAEAALEEESRQR	SMARCE1; SMARCE	Q969G3; A0A2R8	SMCE1	HUM	Unmodified	6700100	4453600	3725800	115980	229600	212950	0	23585	0
SRAEDLNTR	TMED7; TMED7-TIC	Q9Y3B3; A0A0A	TMED7	HUM	Unmodified	0	831240	972500	111010	130150	144060	0	0	0
SRAELVGQLQR	LHPP; LHPP	Q9H008; Q5T1Z0	LHPP	HUM	Unmodified	682450	0	0	25226	0	0	0	0	0
SRDDLYDQDDSRDFPR	LSR; LSR	Q86X29; S4R3V8	LSR	HUMAN	Unmodified	2620400	175060	1825100	164710	198790	236080	0	0	0
SRDLLVQQASQCLSK	HNRNPUL2; HNRNP	Q1KMD3; H3BQ	HNRL2	HUM	Unmodified	1292700	0	0	0	0	0	0	0	0
SRDPHYDDFR	LSR; LSR	Q86X29; S4R3V8	LSR	HUMAN	Unmodified	793320	732900	821040	70539	0	51504	0	0	0
SRDPPASASQVTGIR	DNMT1; DNMT1; DI	K7ER10; K7ELB1	K7ER10	HUM	Unmodified	860030	1361100	1235000	0	0	0	0	0	0
SRDSDESGDKTTR	TOR1AIP1; TOR1AII	Q5JTV8; A0A0A0	TOIP1	HUM	Unmodified	0	21582	182770	188360	180010	0	0	0	0
SREIFLSQPILLELEAPLK	PPP1CA; PPP1CB; P	P62136; P62140;	PP1A	HUMA	Unmodified	190390	0	0	0	0	0	0	0	0
SREMQDVDLAEVKPLVEK	NDRG1; NDRG1; NI	Q92597; A0A6Q8	NDRG1	HUM	Acetyl (Protein N-t	2549100	1972000	3023300	0	68472	0	0	0	0
SREQSSEAAETGVSENEENPVR	PDS5A	Q29RF7	PDS5A	HUM	Unmodified	1962300	1630300	1957600	0	0	0	0	0	0
SRESLNVDVVK	KLC1; KLC1; KLC1;	Q07866; G3V5R9	KLC1	HUMA	Unmodified	1218700	0	1004500	0	0	0	0	0	0
SRFEYPPPPVSLGSSSHTAR	IRF2BPL	Q9H1B7	I2BPL	HUMA	Unmodified	3028300	841210	3745900	0	0	0	0	0	0
SRFTPELQPK	MDC1	Q14676	MDC1	HUM	Unmodified	1631800	1461700	1536200	71439	62648	0	19276	0	15033
SRGEGPEAEFQSLTPSQIK	C1orf198	Q9H425	CA198	HUM	Unmodified	1105000	980340	1112000	43575	35279	26961	0	0	0
SRGFAFVTFESPADAK	RBMXL3; RBMXL2;	Q8N7X1; O75526	RMXL3	HUM	Unmodified	3142500	0	0	77771	67147	28629	0	0	0
SRGFAFVTFESPADAKDAAR	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX	HUM	Unmodified	1282300	755500	811430	0	0	0	0	0	0
SRGFAFVYFENVDDAK	TRA2B; TRA2B	P62995; H7BXF3	TRA2B	HUM	Unmodified	1991700	1174000	1910700	0	0	0	0	0	0
SRGFAFVYFENVDDAKEAKER	TRA2B; TRA2B	P62995; H7BXF3	TRA2B	HUM	Unmodified	803890	1963800	670920	0	0	0	0	0	0
SRGFGFVTFADPASVDK	MSI2; MSI2; MSI2; N	Q96DH6; A0A6Q	MSI2H	HUM	Unmodified	0	727710	593200	0	0	0	0	0	0
SRGFGFVTFENIDDAKDAMMAMNGKSVDGR	CIRBP; CIRBP; CIRE	Q14011; K7ENX8	CIRBP	HUM	3 Oxidation (M);De	1531100	4597000	4197900	226810	90319	0	0	0	15439
SRGFGFVTFSSMAEVDAAMAAR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	2 Oxidation (M)	665100	648490	622020	0	0	0	0	0	0
SRGFGFVTFSSMAEVDAAMAARPHSIDGR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2	HUMA	2 Oxidation (M)	9881600	7952100	8024200	0	0	0	0	0	0
SRGFGFVTYATVEEVDAAMNARPHK	HNRNPA1; HNRNP A	P09651; A0A7I2V	ROA1	HUMA	Oxidation (M);Deai	3388600	2861700	2053200	0	0	0	0	0	0
SRGFGFVTYATVEEVDAAMNARPHK	HNRNPA1; HNRNP A	P09651; A0A7I2V	ROA1	HUMA	Oxidation (M)	3048200	2643400	2170900	0	0	0	0	0	0
SRGFGFVTYATVEEVDAAMNARPHKVDGR	HNRNPA1; HNRNP A	P09651; A0A7I2V	ROA1	HUMA	Oxidation (M);Deai	8717100	7412000	9572300	0	0	0	0	0	0
SRGPEEVNRLTESTYR	BAIAP2L1	Q9UHR4	BI2L1	HUMA	Acetyl (Protein N-t	878130	1139400	1552000	100310	101310	112270	0	0	0
SRIEQKEELDDVIALD	UBA2; UBA2	Q9UBT2; U3KQ9	SAE2	HUMA	Unmodified	8979400	4093300	7617200	23764	0	14919	166610	23210	54189
SRIESLTR	ARHGEF2	Q92974	ARHG2	HUM	Acetyl (Protein N-t	767080	1004400	835100	51211	81719	59703	0	0	0
SRKAENVPR	ARHGEF11	O15085	ARHGB	HUM	3 Methyl (KR)	0	0	0	11752	0	11334	0	0	0
SRKESYSIYVYK	H2BC19P; H2BC11;	Q6DRA6; P06899	H2B2D	HUM	Unmodified	576390	697000	3110300	0	0	0	0	0	0
SRKESYSVYVYK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C	HUM	Unmodified	16949000	16775000	16145000	0	0	0	0	0	0
SRKESYSVYVYK	H2BC4; H2BC12; H2	P62807; O60814;	H2B1C	HUM	2 Methyl (KR)	0	0	0	0	0	0	0	0	0
SRKKDESYEELLR	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN	HUMA	Unmodified	0	0	0	0	0	0	0	364270	0
SRLFVGNLPPDITEEEMR	NONO; NONO; NON	Q15233; C9IZL7;	NONO	HUM	Oxidation (M)	835600	4097000	2052800	13256	0	0	0	0	0
SRLGDLYEEEMR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M)	283620	0	0	146140	209860	184750	0	0	0
SRLGDLYEEEMRELRR	VIM; VIM	P08670; B0YJC4	VIME	HUMA	Oxidation (M)	4899200	2757100	3200800	0	0	0	0	0	17184
SRLLLLDTVTMQVTAR	COPG1; COPG1	Q9Y678; H0Y8X7	COPG1	HUM	Oxidation (M)	345560	0	410490	0	0	0	0	0	0
SRLSLSTGAPQEPAFSGEEAK	KDM4B; KDM4B; KI	O94953; F5GX28;	KDM4B	HUM	Unmodified	676150	573910	601250	0	0	0	0	0	0
SRNITYLPAGQSVLLQLPQ	PHB; PHB	P35232; C9JZ20	PHB	HUMAN	Unmodified	36233000	24877000	39770000	82895	0	14706	281830	18032	35761
SRNITYLPAGQSVLLQLPQ	PHB; PHB	P35232; C9JZ20	PHB	HUMAN	Deamidation (N)	5350200	4807900	6083400	0	0	0	0	0	0
SRNTDEMVELR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M)	26245000	26943000	24566000	907880	888860	982900	50084	29637	0
SRNTDEMVELR	HNRNPK; HNRNPK;	P61978; Q5T6W2	HNRPK	HUM	Oxidation (M);Deai	55408000	56295000	57946000	2518900	2381600	2900800	0	0	0
SRPEFMLPVHFYGK	PYGL; PYGL	P06737; E9PK47	PYGL	HUMA	Oxidation (M)	1135600	934680	1343700	0	0	0	0	0	0
SRPPLQDDLLFFEK	MTFR1; MTFR1	Q15390; H0YBZ4	MTFR1	HUM	Unmodified	1828100	2022800	1277100	0	0	0	0	0	0
SRPPLQDDLLFFEKAPSR	MTFR1; MTFR1	Q15390; H0YBZ4	MTFR1	HUM	Unmodified	1150400	1290300	703720	0	0	0	0	0	0
SRPPMPVVVPSAPEVQETTR	NEO1; NEO1	Q92859; Q59FP8	NEO1	HUMA	Oxidation (M)	291240	380660	298440	45098	124500	138940	0	19884	0
SRPTSFADELAAR	WASHC2A; WASHC	Q641Q2; Q9Y4E1	WAC2A	HUM	Unmodified	0	2189000	2122900	171540	313670	149240	0	21804	0
SRQELASGLPSPAATQELPVER	TACC2; TACC2; TA	O95359; E7EMZ9	TACC2	HUM	Unmodified	0	0	0	176820	124530	77900	71742	27093	0
SRQFMMAPDMNASTR	N/A	N/A	N/A	Oxidation (M)		0	0	8617300	0	0	0	0	0	0
SRQFMMAPDMNASTRMVVRQIK	N/A	N/A	N/A	Oxidation (M)		220460	0	236150	0	0	0	0	0	0
SRQGSGVILRQEEAEYVR	CRK	P46108	CRK	HUMA	Unmodified	2072200	2519900	2005400	199050	192080	199020	0	0	0
SRQPPLVTGISPNEGIPWTK	EXOC2; EXOC2	Q96KP1; Q2MDF	EXOC2	HUM	Unmodified	0	442340	394070	0	0	0	0	0	0
SRSDIDVNAAAGAK	CLASP2; CLASP2; C	O75122; B3KR06	CLAP2	HUM	Unmodified	0	422790	460870	0	144990	121020	0	0	0
SRSGEGEVSGLMR	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Oxidation (M)	15612000	16089000	15560000	3246400	2799400	2657200	0	28947	126520
SRSHTSEGAHLDITPNSGAAGNSAGPK	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1	HUM	2 Deamidation (N)	2606700	1151000	2942900	0	72607	0	0	0	0
SRSNAFAEK	LCLAT1; LCLAT1	Q6UWP7; C9K0C	LCLT1	HUM	Methyl (KR);Deam	0	202210	0	0	0	58237	0	0	77059
SRSYDDRSSDRR	CLK2	B1AVT0	B1AVT0	HUM	4 Methyl (KR)	1775800	0	2456900	0	187120	107680	0	0	0
SRTASGSSVTSLDGTR	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1	HUM	Unmodified	1503900	2238800	1395800	178280	63648	240440	0	53533	14832
SRTLTAVHDAILEDLVFPSEIVGKR	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7	HUMAN	Unmodified	1236500	0	0	0	0	0	0	0	0
SRTPSASNDDQQE	SGTA; SGTA; SGTA	O43765; A0A7I2V	SGTA	HUMA	Deamidation (N)	538440	449010	501200	23020	0	37237	0	0	0
SRTSVQTEDDQLIAGQSAR	CTNNA1; CTNNA2;	P35221; P26232; ,	CTNA1	HUM	Unmodified	1265200	1448300	1285500	205380	141520	217460	30265	0	0
SRVEEPSGAVTTPAGVIAAAGPQGPGTGE	FOXK1	P85037	FOXK1	HUM	Unmodified	3123400	2574100	2697400	518410	464270	404380	352120	258780	352780
SRVFDLQFSTDSPR	NCAPH; NCAPH; NC	Q15003; E9PHA2	CND2	HUMA	Unmodified	434410	665180	759040	0	0	0	0	8125.7	16514
SRWDETPASQMGGSTPVLTPGK	SF3B1	O75533	SF3B1	HUM	Oxidation (M)	2837200	3014800	3387800	0	0	0	0	0	0
SRYQDILVFR	SRM; SRM	P19623; K7EKM4	SPEE	HUMA	Unmodified	905580	665080	856650	0	0	0	0	0	0
SSAAGEGTLAR	LTBP2; LTBP2; LTB	Q14767; G3V3X5	LTBP2	HUM	Unmodified	0	0	0	315040	251890	260530	46660	36272	43398
SSAEVIAQAR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2	HUM	Unmodified	10030000	9492800	11151000	371910	341460	427150	35883	29691	0
SSALREEVQSLREEAEK	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1	HUM	Unmodified	1917500	2191600	1863800	0	0	0	0	0	0
SSALREEVQSLREEAEKQR	NUMA1; NUMA1	Q14980; H0YFY6	NUMA1	HUM	Unmodified	10963000	8394400	11387000	0	0	0	0	0	0
SSANVEEAFFTLAR	RAB8B; RAB8B	Q92930; H0YNE9	RAB8B	HUM	Unmodified	727370	627020	634350	0	0	0	0	0	0
SSAPAQEEEEDPLAYYENHTSQIEIVR	ITPR3	Q14573	ITPR3	HUMA	Deamidation (N)	785570	529290	0	0	0	0	0	0	0
SSAQDPQAVLGALGR	VARS1; VARS1; VAI	P26640; A2ABF4;	SYVC	HUM	Unmodified	3981700	0	0	0	0	0	27358	0	0
SSASFSTTAVSAR	STXBP1; STXBP1; S	P61764; A0A1B0	STXB1	HUM	Unmodified	2344800	2059400	2280800	1294200	1608600	3333400	0	19501	0
SSASGYGSR	SLTM; SLTM	Q9NWH9; H7C3F	SLTM	HUM	Unmodified	499130	1085200	974040	111800	100250	108360	0	0	0
SSAVDPEPQVK	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Unmodified	5599000	5006700	5087900	319180	278140	324800	0	0	0
SSAVDPEPQVKLEDVLPLAFTR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Unmodified	30344000	27505000	30025000	22792	0	0	0	0	0
SSAVDPEPQVKLEDVLPLAFTR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Methyl (KR)	1487700	1487400	1700300	0	0	0	0	0	0
SSAVVVDAIPVFLEK	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	369350	332000	311260	0	0	0	0	0	0
SSAYESLMEIVK	KPNB1; KPNB1; KPI	Q14974; J3QKQ5;	IMB1	HUMA	Oxidation (M)	0	347870	366000	0	0	0	0	0	0
SSDAFTTQHALR	KIF4A	O95239	KIF4A	HUM	Unmodified	2444200	1093000	1200900	28486	11163	0	0	0	0
SSDASQGVITTPPPPSMPHKER	ADD3	Q9UEY8	ADDG	HUM	Acetyl (Protein N-t	577980	509020	0	1236000	1352100	1217100	247510	142820	182710
SSDDRNPMFLEK	GPRIN1	Q7Z2K8	GRIN1	HUM	Oxidation (M)	857210	1197800	962180	0	0	0	0	0	0
SSDIVSSVR	GAPVD1; GAPVD1;	Q14C86; C9IZ08;	GAPD1	HUM	Unmodified	1200600	0	1098500	123230	59067	105380	0	0	0
SSDNKLEETLTR	DDX50	Q9BQ39	DDX50	HUM	Unmodified	787550	545290	529940	29874	29509	0	0	0	0
SSDPLGDTASNLGSAVDELMR	HUWE1	Q7Z6Z7	HUWE1	HUM	Oxidation (M)	1178200	969640	1171400	0	0	0	0	0	0
SSDQPLTVPVSPK	TPX2	Q9ULW0	TPX2	HUMA	Unmodified	823590	904060	720020	0	0	0	0	0	0
SSDVHSSGSSDAHMDASGPSDSDMPSR	U2SURP; U2SURP; U	O15042; C9J5L1;	SR140	HUM	2 Oxidation (M)	3018200	2151300	2214300	0	896820	515940	0	0	0
SSEAIKESSKFPFGISPAQSHR	ARID1A; ARID1A; A	O14497; H0Y488;	AR11A	HUM	Unmodified	1404600	1032400	981820	0	0	0	0	0	0
SSEDPNEDIVER	JCHAIN; JCHAIN; JC	P01591; D6RHJ6;	IGJ	HUMAN	Unmodified	1161400	0	0	86483	0	96738	0	0	0
SSEEIESAFR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	6100600	5750600	4892300	1232400	1075400	1714100	0	0	0
SSEEPGVATQR	PHLDB1	Q86UU1	PHLB1	HUM	Unmodified	863900	1049400	980570	0	0	0	0	0	0
SSELQAIK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY	HUM	Unmodified	893280	834180	699240	0	0	0	0	0	0
SSEMNVLIPTEGGDFNEFPVPEQFK	CAP1	Q01518	CAP1	HUMA	Oxidation (M);Deai	4545300	5327300	4782000	0	0	0	0	0	0
SSEMNVLIPTEGGDFNEFPVPEQFK	CAP1	Q01518	CAP1	HUMA	Oxidation (M)	12410000	9890900	12399000	0	0	0	0	0	0

SSENFDELLK	CRABP1	P29762	RABP1	HUM	Unmodified	44652000	40609000	40781000	34294	32874	49707	0	0	0
SSENFDELLK	CRABP1	P29762	RABP1	HUM	Deamidation (N)	8452400	8692100	11411000	0	0	0	0	0	0
SSENFDELLKALGVNAMLR	CRABP1	P29762	RABP1	HUM	Oxidation (M)	3120700	792820	2609700	0	0	0	0	0	0
SSENFDELLKALGVNAMLR	CRABP1	P29762	RABP1	HUM	Oxidation (M);Deam	356350	52152	0	0	0	0	0	0	0
SSENFDELLKALGVNAMLRK	CRABP1	P29762	RABP1	HUM	Oxidation (M)	6597800	5748800	5960900	0	0	0	0	0	0
SSENFDELLKALGVNAMLRK	CRABP1	P29762	RABP1	HUM	Oxidation (M);Deam	2619600	892600	2263400	0	0	0	0	0	0
SSENPNEVFR	USP5	P45974	UBP5	HUM	A Unmodified	1844000	0	2682200	0	0	0	0	0	0
SSEPEHQEALQPVNLSELESIVTERPQFSR	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	4115400	3028000	3393900	0	0	0	0	0	0
SSEPPPPPQPPTHQASVGLLDTPR	CARHSP1; CARHSP	Q9Y2V2; H3BSW	CHSP1	HUM	Acetyl (Protein N-t	42517000	30550000	36061000	2515900	2455800	1981200	144590	133620	113250
SSEPPPPPQPPTHQASVGLLDTPRSR	CARHSP1; CARHSP	Q9Y2V2; H3BSW	CHSP1	HUM	Acetyl (Protein N-t	0	0	0	456000	473230	399760	95674	0	72517
SSEPVQADESQSPR	TJP3	O95049	ZO3	HUM	A Unmodified	0	0	187720	88985	0	125490	0	0	0
SSEPVQHEESIR	TJP2; TJP2; TJP2; N/	Q9UDY2; A0A1B	ZO2	HUM	A Unmodified	268570	347240	1731600	0	0	0	0	0	0
SSEPVQHEESIRKPSPEPR	TJP2; TJP2; TJP2; N/	Q9UDY2; A0A1B	ZO2	HUM	A Unmodified	1452200	1752000	441990	0	500840	620070	0	0	47640
SSEPVQLTEAETEYFVR	COPG2	Q9UBF2	COPG2	HUM	Unmodified	1129800	1032500	855980	0	0	0	0	0	0
SSEPVVTMSVEYQMK	SON	P18583	SON	HUM	A 2 Oxidation (M)	927280	1017200	1219800	46955	45830	52993	0	8511.7	0
SSEQILATLK	PRPF19	Q9UMS4	PRP19	HUM	Unmodified	2125700	1820800	2194600	28491	0	0	0	0	0
SSFADISNLLQIEPR	TOMM34	Q15785	TOM34	HUM	Unmodified	830880	428430	998330	0	0	0	0	0	0
SSFDEMLPGTHFQR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1	HUM	A Oxidation (M)	11674000	14765000	7015200	1973100	1935500	1726700	473090	434710	483150
SSFDWLTGSSTDPLVDHTSPSSDSLLFAHK	PRKDC	P78527	PRKDC	HUM	Unmodified	8524400	7657200	6650900	0	0	0	0	0	0
SSFDWLTGSSTDPLVDHTSPSSDSLLFAHKR	PRKDC	P78527	PRKDC	HUM	Unmodified	5460400	4453800	1744400	0	0	0	0	0	0
SSFFIEPQKPVFPETR	CHAMP1	Q96JM3	CHAP1	HUM	Unmodified	2791500	2042000	1902000	0	0	0	0	0	0
SSFFSDR	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X	HUM	Unmodified	4667400	4365900	4253900	215960	181210	197210	11451	10270	31925
SSFLASLNPK	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC	HUM	Unmodified	891650	748360	862080	27599	28113	21526	0	0	0
SSFRGDTNFYGK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA	HUM	Unmodified	1624800	1631500	996080	411540	325300	351410	0	20463	30973
SSFSQHAR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	3016600	2297000	2684600	1771100	1671400	1901500	641480	596600	12734
SSFYPDGGDQETAK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	3370500	4218700	3241300	217600	198980	447010	0	0	0
SSFYPDGGDQETAKTGK	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	1533500	1249900	2112700	95426	133320	154650	0	0	0
SSFYVNGLTLGGQK	PFN1; PFN1; PFN1	P07737; B3KD5; I	PROF1	HUM	Deamidation (N)	61916000	51740000	51945000	1039100	1117400	946280	52679	294280	260610
SSFYVNGLTLGGQK	PFN1; PFN1; PFN1	P07737; B3KD5; I	PROF1	HUM	Unmodified	3673500	5682100	3698800	665360	637900	533550	108440	81073	224170
SSGAPETLQR	TARS2	Q9BW92	SYTM	HUM	Unmodified	0	0	0	169060	214460	188130	0	0	0
SSGGFVWACK	IDH2; IDH2	P48735; H0YL11	IDHP	HUM	A Unmodified	0	526720	394530	0	0	0	0	0	0
SSGGGYSGDR	TAF15; TAF15	Q92804; A0A075	RBP56	HUM	Unmodified	6456100	5959900	5237600	379940	344370	327130	0	0	0
SSGGREDLESSGLQR	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUM	A Unmodified	1035600	1325400	1489400	0	81821	0	0	0	0
SSGGREDLESSGLQRR	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUM	A Unmodified	737080	892020	588450	40803	46540	72307	0	0	0
SSGGSGGGPLSHFYSGSPTSYFTSGLQAGLK	RAVER1; N/A; RAV	E9PAU2; K7EQG	E9PAU2	HUM	Unmodified	1702300	1281300	1295700	0	0	0	0	0	0
SSGGSYRDSYDSYATHNE	CIRBP	Q14011	CIRBP	HUM	Unmodified	8651700	9129800	8517100	3944500	3794300	3428900	494220	613160	639230
SSGHSSSELSPDAVEK	SRRM2	Q9UQ35	SRRM2	HUM	A Unmodified	2586500	1754600	1775700	99852	103460	0	0	0	0
SSGIENGAFQGMK	DCN	P07585	PGS2	HUM	A Oxidation (M);Deam	180810	450160	0	122450	138660	146820	0	0	0
SSGIHVALVTGGNK	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1	HUM	A Acetyl (Protein N-t	841990	541000	624400	41956	30850	0	0	20877	0
SSGIVSLGVGDR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	0	0	1341800	232490	145960	158400	0	26204	18857
SSGIVSLGVGDRNIDRTELQTITNDPR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	4875600	2947200	3292100	0	0	0	0	0	0
SSGKTPETLVPTAPK	MDC1	Q14676	MDC1	HUM	Unmodified	817470	844080	666570	0	0	0	0	0	0
SSGKTPETLVPTAPKLEPSTSTDQPVTPEPTSQATR	MDC1	Q14676	MDC1	HUM	Unmodified	0	1222400	1948200	0	33207	0	0	0	0
SSGLESSEAR	ARFGAP2; ARFGAP	Q8N6H7; E9PMU	ARFG2	HUM	Unmodified	3148700	3799200	0	0	0	267710	0	0	0
SSGLPNIPVQTISR	TFRC; TFRC	P02786; G3V0E5	TFR1	HUM	A Unmodified	28523000	25627000	24128000	310980	336070	284240	0	74886	0
SSGLTAVWVAR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUM	A Unmodified	1784500	1464800	1435200	84765	149600	105050	0	14146	11845
SSGMSSLLGK	CFDP1	Q9UEE9	CFDP1	HUM	Oxidation (M)	909330	0	0	0	100300	0	0	0	0
SSGNAATSGNAATKIPTPIVGVK	PAPOLA; PAPOLA;	P51003; H0YJL4;	PAPOA	HUM	2 Deamidation (N)	1000500	0	0	0	0	0	0	0	0
SSGPTSLFAVTVAPPGAR	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Unmodified	109750000	98457000	85084000	6867500	7521600	5136400	1255400	1261700	1572000
SSGPVPSAK	NAV1; NAV1	Q8NEY1; A0A0A	NAV1	HUM	A Unmodified	501380	534020	0	0	0	0	0	0	0
SSGPYGGGGQYFAK	HNRNPA1L2; HNRN	Q32P51; P09651;	RA1L2	HUM	Unmodified	7793700	6873100	6596900	0	402200	428290	0	0	0
SSGPYGGGGQYFAKPR	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1	HUM	A Unmodified	98647000	80644000	101320000	9106600	9412300	12116000	1113500	1450400	1402200
SSGPYGGGGQYFAKPR	HNRNPA1; HNRNP/	P09651; A0A7I2V	ROA1	HUM	A Methyl (KR)	1141700	1148000	0	0	0	0	0	0	0
SSGRSGSMDPSGAHPSVR	KHDRBS1	Q07666	KHDR1	HUM	Oxidation (M)	0	1402400	2306300	4323700	4686000	2693500	823920	434080	824520
SSGSALTVWGTGNPR	GFUS; GFUS	Q13630; E9PKL9	FCL	HUM	A Unmodified	1148600	1668200	1475400	0	0	0	0	0	0
SSGSGAGKGAVSAEQVIAGFNR	PFDN2	Q9UHV9	PFD2	HUM	A Unmodified	1788500	1597900	2410100	0	35368	0	0	0	0
SSGSHLVFVPSLR	POLA2; POLA2; N/A	Q14181; H0YDR7	DPOA2	HUM	Unmodified	867230	0	748180	0	0	0	0	0	0
SSGSPYGGGYGSGGGSGGYGSR	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3	HUM	A Unmodified	174300000	142060000	167250000	15000000	12569000	15696000	587070	981460	0
SSGTASSVAFTPLQGLEITVNPQAAEK	PRPF31; PRPF31	Q8WWY3; E7EV3	PRP31	HUM	A Unmodified	2140700	1802400	2938400	0	0	0	0	0	0
SSGVEGRDVVALIR	HK2; HK2	P52789; E9PB90	HXK2	HUM	A Unmodified	991610	620200	960190	0	0	0	0	0	0
SSGVPVDGFYTEEVR	NTPCR; NTPCR	Q9BSD7; Q5TDF(	NTPCR	HUM	A Unmodified	6217200	6706200	6413700	32660	29114	20379	0	0	0
SSHYDELLAAEAR	SND1; SND1	Q7KZF4; H7C597	SND1	HUM	A Unmodified	0	3819300	1693600	133460	152280	123490	0	0	0
SSIAGLLLK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	A Unmodified	1838200	1373200	1467200	15607	0	0	0	0	0
SSILLDVKPWDDETDMAK	EEF1B2	P24534	EF1B	HUM	A Oxidation (M)	3239800	2917600	2991400	0	0	0	0	0	0
SSILLKNFVELISHQQLSK	TEX10	Q9NXF1	TEX10	HUM	A Unmodified	634560	562060	410000	0	0	0	0	0	0
SSIMAFAIGNK	COL6A3; COL6A3; C	P12111; E7ENL6;	CO6A3	HUM	A Oxidation (M)	922130	891350	897140	212630	213270	204170	0	67858	0
SSIRQVSDVQK	TRIM28; TRIM28	Q13263; M0R3C0	TIF1B	HUM	A Unmodified	0	0	0	252130	0	186150	6708.3	0	0
SSKELLLQPVTISR	ARPC4; ARPC4-TTL	P59998; A0A0A6	ARPC4	HUM	Unmodified	1589600	1394200	2000800	108450	117430	112840	14849	0	18048
SSKVSRDTLYEAVR	RPL10A	P62906	RL10A	HUM	A Acetyl (Protein N-t	427350	500640	615010	0	0	0	0	0	0
SSLDNIEMAYAR	NUP93; NUP93; NUP	Q8N1F7; H3BP95	NUP93	HUM	A Oxidation (M)	2847600	1777600	1512400	343500	314500	326840	35129	45520	39663
SSLEELHGDANWGEDLR	SUN2; SUN2; SUN2;	Q9UH99; B0QY6	SUN2	HUM	A Unmodified	1539800	1524300	1528200	0	0	0	0	0	0
SSLGSLQTPEAVTTR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV	HUM	Unmodified	2913800	2618500	3507100	456100	386380	0	0	24678	278900
SSLHLLSHETK	CEP43; CEP43	O95684; A0A087	CEP43	HUM	A Unmodified	354030	204400	735560	0	0	14375	0	0	0
SSLIPISGHRASPNPVAMETR	SAP130; SAP130; SA	Q9H0E3; A0A2R8	SP130	HUM	A Oxidation (M);2 M	316340	0	793390	0	0	0	0	0	0
SSLLDDLLTESEDMAQR	DNM1L	O00429	DNM1L	HUM	Oxidation (M)	2289100	1583100	1916400	0	0	0	0	0	0
SSLLEKGLDGAK	DCD	P81605	DCD	HUM	A Unmodified	1840500	834250	800220	1266600	1421200	1234800	264250	312920	30895
SSLLEKGLDGAKK	DCD	P81605	DCD	HUM	A Unmodified	0	0	390480	543140	600700	580050	144380	0	163730
SSLLIEQPVK	PHC3; PHC3	Q8NDX5; E7EX8(	PHC3	HUM	A Unmodified	469040	545910	528250	53637	66175	50625	0	0	0
SSLLLGFR	LRPPRC	P42704	LPPRC	HUM	Unmodified	4736900	4205800	5216700	12104	30514	28267	0	0	0
SSLLVGNLK	PHC2; PHC2; PHC2	Q8IXK0; B3KPJ4;	PHC2	HUM	A Unmodified	1048100	929590	0	0	0	0	0	0	0
SSLNPILFR	DDOST; DDOST; DD	P39656; U3KQ84;	OST48	HUM	Unmodified	28965000	29724000	32682000	3126300	3258100	3296400	156180	52953	267980
SSLPNFKQNEFSVVR	SNX6; SNX6; SNX6;	Q9UNH7; G3V5U	SNX6	HUM	A Unmodified	852310	880780	857250	110240	80229	70873	17456	19850	18998
SSLQPITTLGK	PTK7; PTK7	Q13308; C9JQR6	PTK7	HUM	A Unmodified	1075500	788230	1072900	0	0	0	0	0	0
SSLQPITTLGKSEFGEVFLAK	PTK7; PTK7	Q13308; C9JQR6	PTK7	HUM	A Unmodified	489530	536320	566050	0	0	0	0	0	0
SSLSHAMVIDSR	SAMM50	Q9Y512	SAM50	HUM	Oxidation (M)	0	504270	482500	0	0	0	0	0	0
SSLSSAQADFNQLAELDR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Deamidation (N)	1184200	816810	1133600	25774	0	0	17753	0	0
SSLSSAQADFNQLAELDR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	5831400	4750100	6715900	0	0	0	0	0	0
SSLSSAQADFNQLAELDRQIK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	2013500	1941100	1720900	0	0	0	0	0	0
SSLSVPYVIVPLK	C3	P01024	CO3	HUM	A Unmodified	1581800	1225000	1553000	27907	0	31438	34253	0	0
SSLSVPYVIVPLKTGLQEVEVK	C3	P01024	CO3	HUM	A Unmodified	955220	1119300	0	0	0	0	0	0	0
SSLSVPYVIVPLKTGLQEVEVK	C3	P01024	CO3	HUM	A Methyl (KR)	573930	623500	551710	0	0	0	0	0	0
SSLSVQPGFLADLNR	RAPH1; RAPH1	Q70E73; C9K0J5	RAPH1	HUM	A Unmodified	535740	612540	367570	0	0	0	0	0	0
SSLVTSKLAGGQVE	ENSA; ENSA	O43768; A0A1W2	ENSA	HUM	A Unmodified	0	0	0	423980	342460	571800	131540	98606	73051
SSLYEGLEKPESR	ATP2B2; ATP2B1; A	Q01814; P20020;	AT2B2	HUM	Unmodified	897150	916280	870520	97932	126090	113990	0	0	0
SSMGMDISAIDLINIESFSSR	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	2 Oxidation (M)	5856400	2789900	6729000	0	0	0	0	0	0
SSMNVDEAFSSLAR	RAB13; RAB13	P51153; A0A087	RAB13	HUM	Oxidation (M)	5073800	4059700	4691300	195070	209980	133900	0	0	0
SSMNVDEAFSSLARDILLK	RAB13; RAB13	P51153; A0A087	RAB13	HUM	Oxidation (M)	859610	732980	659620	0	0	0	0	0	0
SSMSVTSLEAELQAK	SFXN1	Q9H9B4	SFXN1	HUM	Oxidation (M)	2694800	2590800	3407500	27394	29387	17491	0	0	0
SSMTFLTR	RTCB	Q9Y3I0	RTCB	HUM	A Oxidation (M)	9827900	8707600	8661400	796510	834140	870020	93052	79563	45001
SSNADAEEKLDR	PQBP1; PQBP1	O60828; A0A5H1	PQBP1	HUM	Deamidation (N)	994230	1646400	1529800	61529	63520	0	0	0	0
SSNLLDLKNPFFR	CARM1; CARM1	Q86X55; K7EQB5	CARM1	HUM	Unmodified	1875600	976690	1012900	0	9131.9	0	0	0	0
SSNLLDLKNPFFR	CARM1; CARM1	Q86X55; K7EQB5	CARM1	HUM	Deamidation (N)	439010	447050	558120	0	0	0	0	0	0
SSNPMMVLQLPER	RAE1; RAE1; RAE1	P78406; E9PQ57;	RAE1L	HUM	2 Oxidation (M)	0	716490	515110	0	0	0	0	0	0
SSNSASAANGNDSKKFKGDSR	PTBP1; PTBP1; PTB	P26599; K7ELW5	PTBP1	HUM	A Acetyl (Protein N-t	2338000	1132100	1077800	1908000	957310	2199700	0	0	0
SSNTYTLTDVR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	1657200	1782800	1179800	168200	212050	191480	0	0	0
SSNTYTLTDVR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Deamidation (N)	2002200	1731800	1665600	0	298840	333790	0	0	0
SSNTYTLTDVRR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	5094300	3319100	3923400	350080	384270	380200	0	0	0
SSNTYTLTDVRR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Deamidation (N)	3515200	3006100	0	374420	257060	286010	0	0	0
SSNVLSQQLK	N/A	N/A	N/A		Deamidation (N)	2200100	1819700	3405400	47272	39244	77772	0	0	0
SSPAPPDLPTPGSAAGVQQEEPETIPERTPADLEFSR	ZSCAN18; ZSCAN18	Q8TBC5; M0R1U	ZSC18	HUM	Unmodified	1523500	1602500	1531100	0	0	0	0	0	0
SSPCIHYFTGTPDPSR	SCRN1	Q12765	SCRN1	HUM	Unmodified	0	1128700	0	177270	182390	0	31633	27959	25592
SSPEPVALTESETEYVIR	COPG1	Q9Y678	COPG1	HUM	Unmodified	2954000	2798700	3496900	118880	87813	0	0	24158	22951
SSPGQPEAGPEGAQERPSQAAPAVEAEGPGSSQAPR	TXLNA	P40222	TXLNA	HUM	Unmodified	2643600	1561700	1832600	0	0	101450	0	0	0
SSPGQTPEEGAQALAEFAALHGPALR	TTLL12	Q14166	TTL12	HUM	Unmodified	1256400	0	1269900	0	0	0	0	0	0
SSPPEGKLETK	DAP; DAP	P51397; B4DQ75	DAP1	HUM	A Acetyl (Protein N-t	6159100	6733200	8201400	2500400	2801200	2544700	22583	0	0
SSPPEGKLETKAGHPPAVK	DAP; DAP	P51397; B4DQ75	DAP1	HUM	A Acetyl (Protein N-t	0	0	0	1245500	687950	1304200	264360	148860	0
SSPPLRTPDVLESSGPAVR	RPS6KA4; RPS6KA4	O75676; E9PJN1;	KS6A4	HUM	Unmodified	0	0	0	264490	180020	199300	38422	0	0
SSPPVLQGPAPAGFSQHPGLLVPHTHAR	SEC16A; SEC16A	O15027; F1T0I1	SC16A	HUM	Unmodified	1159900	1155800	1172400	0	0	0	0	0	0
SSPQFGVTLLTYELLQR	SLC25A13	Q9UJS0	CMC2	HUM	Unmodified	183350	0	72462	0	0	0	0	0	0
SSPQHSLSNPLPR	TLK2	Q86UE8	TLK2	HUM	A Unmodified	375880	449350	317120	0	99339	90904	0	0	0
SSPSARPPDVPGQPQPAAK	ZFP91; ZFP91-CNTF	Q96JP5; A0A0A6	ZFP91	HUM	Unmodified	387380	373250	405700	0	0	20696	0	0	0
SSPSGPSNPSNPSVEEKLEHLEK	BRI3BP; BRI3BP	Q8WY22; A0A5P	BRI3B	HUM	Unmodified	1654800	1701300	1977400	0	0	0	0	0	0
SSPSVKPAVDPAAAK	CIAPIN1; CIAPIN1; C	Q6FI81; H3BT65;	CPIN1	HUM	Unmodified	1290700	1416600	1149800	0	64748	0	0	0	0
SSPVDLVTATDQKVEK	IMPA1; IMPA1; IMP	P29218; E5RG94;	IMPA1	HUM	Unmodified	2362400	5385400	5621000	128000	0	0	0	0	13362
SSPVEFECINEK	CPNE3; CPNE3	O75131; H0YB26	CPNE3	HUM	Unmodified	763340	868700	898980	0	61265	63426	0	0	0
SSPVVIDASTAIDAPSNLR	FN1; FN1; FN1	P02751; H0Y7Z1;	FINC	HUM	Unmodified	2623400	3303400	3258200	46022	41076	30797	98902	0	0
SSPVVNDGVVR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Unmodified	1604500	1185300	379410	0	0	128420	0	0	0
SSPVVNDGVVR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Deamidation (N)	1719400	1584000	0	97723	107340	124150	0	0	0
SSPVVNDGVVRLR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1	GRSF1	HUM	Deamidation (N)	0	0	0	47893	24512	35966	0	0	0
SSPVYVGR	TGM2; TGM2	P21980; A2A299	TGM2	HUM	Unmodified	1146100	769030	732280	2021600	2038500	2383900	841870	0	789900
SSPYPTDVAR	OGDHL; OGDH; OGI	Q9ULD0; Q02218	OGDHL	HUM	Unmodified	9534400	8468900	9009200	3862500	3481300	1777000	0	0	0
SSQEEVR	HNRNPF	P52597	HNRPF	HUM	Unmodified	701460	614570	6389300	41532	24575	0	0	0	0

SSQKELEAMGLGTPSEAIEIR	TACC2; TACC2; TA	E7EMZ9; Q4VXL	E7EMZ9	HUI	Oxidation (M)	2637700	1103300	1667400	19665	0	0	0	0	0
SSQPLASKQEK	HMGA1; HMGA1	P17096; A0A6698	HMGA1	HUM	Unmodified	933140	0	0	46839	70604	47749	0	0	7917
SSQPLASKQEKDGTEK	HMGA1; HMGA1	P17096; A0A6698	HMGA1	HUM	Unmodified	5441300	1741500	3381200	70502	163270	210420	0	0	0
SSQPPADRDPAPFR	CPSF1	Q10570	CPSF1	HUM	Unmodified	0	0	805290	67125	0	41116	0	22043	0
SSQSSSQQFSGIGR	DDX17; DDX17; DD	O92841; A0A1X7	DDX17	HUM	Unmodified	10833000	12423000	11001000	3429900	2988000	3567300	508490	503970	549550
SSQTQNKASR	SETSIP; SET; SET	P0DME0; Q01105	SETLP	HUM	Deamidation (N)	0	270580	121970	0	24717	0	0	0	0
SSRLEEDDGDVAMSDAQDGPR	NXF1; NXF1; NXF1	Q9UBU9; E9PQA	NXF1	HUM	Oxidation (M)	3318400	3519600	2715800	88839	162100	145870	0	0	0
SSRSEIKGFYDPPR	HNRNPH3	P31942	HNRH3	HUM	Unmodified	0	1794100	2802800	0	0	0	0	0	0
SSSADFGTFNTSQSHQTASAVSK	AGFG1; AGFG1; AG	P52594; B8ZZY2;	AGFG1	HUM	Unmodified	1407200	1393400	1440100	160960	143880	137120	0	0	36906
SSSADFGTFNTSQSHQTASAVSK	AGFG1; AGFG1; AG	P52594; B8ZZY2;	AGFG1	HUM	Deamidation (N)	801140	759510	700270	85977	71941	115040	0	0	0
SSSAGGQGSYVPLLR	LSR; LSR	Q86X29; S4R3V8	LSR	HUMAN	Unmodified	3792300	3467500	6402100	266240	0	240670	0	0	25140
SSSALDSPAGPR	CEP131; CEP131	Q9UPN4; I3L2J8	CP131	HUM	Unmodified	885540	997650	1720800	119320	0	113220	0	0	0
SSSGLLEWESK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Unmodified	9929700	9945000	8722100	505480	325960	399710	0	0	0
SSSGLQVLNVHFGGER	AOC1	P19801	AOC1	HUMA	Unmodified	0	0	0	133520	113730	77839	0	0	0
SSSHSRAGQSAAGAAPGGGVDTR	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	394110	375090	381360
SSSLLEEK	CORO2A	Q92828	COR2A	HUM	Unmodified	0	1421800	638540	20466	0	0	0	0	0
SSSLLEEKMPR	CORO2A	Q92828	COR2A	HUM	Oxidation (M)	858930	0	773380	62844	0	81758	0	0	0
SSSMPSNPEGRK	N/A	N/A	N/A		Unmodified	3528300	6425700	4689200	313680	119620	416830	0	0	0
SSSPAPADIAQTVQEDLR	G3BP1; G3BP1; G3B	Q13283; A0A7I2Y	G3BP1	HUM	Unmodified	1464700	2836700	2218400	12970	0	16865	0	0	0
SSSPVKR	TALDO1; TALDO1;	P37837; E9PM01;	TALDO	HUM	Acetyl (Protein N-t	0	6295600	0	0	2456300	0	380880	0	0
SSSPVNVKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Acetyl (Protein N-t	4221200	3536200	3869100	0	0	0	0	0	0
SSSPVNVKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Acetyl (Protein N-t	0	0	481600	0	0	0	0	0	0
SSSPVNVKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Acetyl (Protein N-t	0	23869000	24198000	0	1110200	1437000	0	0	0
SSSQLGSPDVSHLIR	TANC2	Q9HCD6	TANC2	HUM	Unmodified	596170	0	552220	0	0	69004	0	0	0
SSSQPSPSDPK	VCX; VCX3A; VCX2	Q9H320; Q9NNX	VCX1	HUMA	Unmodified	0	0	0	266390	422890	670660	0	0	0
SSSQSGSGPSSPDSVLRPR	LRCH4; LRCH4	O75427; H7C5D9	LRCH4	HUM	Unmodified	0	1731100	0	110980	0	74689	18038	0	0
SSSQYPFPVTLYVPNVPEGSVR	RABGAP1L; RABGA	Q5R372; A0A0C4	RBG1L	HUM	Unmodified	306340	282620	453460	0	0	0	0	0	0
SSSSGHYVSWVK	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	1040700	1171000	1785300	0	0	0	0	0	0
SSSSQTLTQFDSNIAPADPDTAIVHPVPIR	REPS1; REPS1	Q96D71; H0YE73	REPS1	HUM	Unmodified	1052600	3084100	1878000	0	0	0	0	0	0
SSSSQVVGPVQEEEYVAEKLPSR	AKAP1; AKAP1	Q92667; I3L0W0	AKAP1	HUM	Unmodified	1061900	866720	916140	0	0	0	0	0	0
SSSTSDILEPFTVER	RALGAPA1; RALGA	Q6GYQ0; A0A7P	RGPA1	HUM	Unmodified	0	551650	0	0	26205	36176	0	0	0
SSTAAQEVK	RCC2	Q9P258	RCC2	HUMA	Unmodified	227490	3816900	3384000	0	0	217750	0	0	0
SSTDSLPGPISR	NCOA5	Q9HCD5	NCOA5	HUM	Unmodified	4063600	2597300	3004300	187060	153410	170290	0	0	0
SSTDSLPGPISRQPLGATSGASLK	NCOA5	Q9HCD5	NCOA5	HUM	Unmodified	820160	619920	1320400	50466	40903	53820	0	0	0
SSTELLR	MECR; MECR	Q9BV79; H3BM3	MECR	HUM	Unmodified	511730	381110	476320	0	45840	0	0	0	0
SSTETCYSAIPK	FLNB; FLNB; FLNB	O75369; A0A0A0	FLNB	HUMA	Unmodified	224650	0	0	0	234720	0	0	0	0
SSTFNSQEPHNILPLASSQIR	COG1; COG1; COG1	Q8WTW3; J3QKY	COG1	HUMA	Deamidation (N)	0	412020	520770	68687	74735	62579	0	0	0
SSTFSDVEAHFR	ZNF280C	Q8ND82	Z280C	HUM	Unmodified	1129800	1477300	1523800	0	0	0	0	0	0
SSTGPEPPAPTPLLAER	SRRM2; SRRM2; SR	Q9UQ35; I3L118;	SRRM2	HUM	Unmodified	13333000	8905700	9990700	287930	160490	205710	32111	23788	34570
SSTIQDQK	WASF2	Q9Y6W5	WASF2	HUM	Unmodified	193260	0	550480	0	9827.7	0	0	0	0
SSTISVHDPFSDVSDSSFPK	ARID1B; ARID1B; A	Q8NFD5; A0A6Q	ARI1B	HUM	Unmodified	1008300	789600	1252700	0	0	0	0	0	0
SSTLSQLPGDKSK	SPAG9; SPAG9	O60271; A0A087	JIP4	HUMAN	Unmodified	413620	0	452080	28200	28670	36423	0	0	0
SSTPAQLAFMR	HCFC1; HCFC1; HCI	P51610; A6NEM2	HCFC1	HUM	Oxidation (M)	1749400	1884800	2088000	52392	67538	90620	0	0	0
SSTPEEVKK	CFL1; CFL1; CFL1;	P23528; G3V1A4;	COF1	HUMA	Unmodified	3744000	2875100	4035000	0	0	0	0	0	0
SSTPLHSPSPIR	BAG3; BAG3	O95817; C9JFK9	BAG3	HUMA	Unmodified	848910	1000600	792480	26878	0	0	0	0	0
SSTPLPTISSSAENTR	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B	HUM	Deamidation (N)	2667300	3527400	3765600	31554	0	0	0	0	0
SSTPLPTISSSAENTR	TMPO; TMPO; TMPI	P42167; P42166;	LAP2B	HUM	Unmodified	1057600	2013100	1559700	0	0	0	0	0	0
SSTPPGESYFGVSSLQLK	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	898590	731940	709000	22663	19682	14710	11503	0	0
SSTVTEAPIAVVTSR	NEK9; NEK9; NEK9;	Q8TD19; A0A7I2	NEK9	HUMA	Unmodified	0	0	0	109470	90663	128350	32029	27779	0
SSVASLVGR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SSVAVLTQESFAEHR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN	HUM	Acetyl (Protein N-t	2242700	2109100	2846500	941160	994180	576430	449400	180590	369330
SSVKTPEPVVPTAPELQPSTSTDQPVTSEPTSQVTR	MDC1; MDC1	Q14676; H0Y6Z8	MDC1	HUM	Unmodified	1874700	1045600	1589800	0	0	0	0	0	0
SSVKTPEPVVPTAPEPHPTTSTDQPVTPK	MDC1	Q14676	MDC1	HUM	Unmodified	1096500	1293400	894900	0	0	0	0	0	0
SSVKTPESIVPIAPELQPSTSR	MDC1	Q14676	MDC1	HUM	Unmodified	1322700	1941100	2109900	17098	0	0	0	0	0
SSVKTPETVVPAAPELQPSTSTDQPVTPEPTSR	MDC1	Q14676	MDC1	HUM	Unmodified	0	0	1662000	0	0	55148	0	0	0
SSVKTPETVVPTAPELQPSTSTDQPVTPEPTSQATR	MDC1	Q14676	MDC1	HUM	Unmodified	0	3765500	0	57472	0	52954	39778	0	0
SSVLENFVGRDFLPR	DNM3; DNM2; DNM	Q9UQ16; P50570;	DYN3	HUMA	Deamidation (N)	7462700	7389700	6786900	0	0	0	0	0	0
SSVLENFVGRDFLPR	DNM3; DNM2; DNM	Q9UQ16; P50570;	DYN3	HUMA	Unmodified	8437700	9114200	8109300	0	0	0	0	0	0
SSVLESLVGR	DNM1L; DNM1L; DI	O00429; F8VZ52;	DNM1L	HUM	Unmodified	1375000	1148600	1648500	0	0	0	0	0	0
SSVLESLVGRDLLPR	DNM1L; DNM1L; DI	O00429; F8VZ52;	DNM1L	HUM	Unmodified	9062000	221220	244250	0	0	0	0	0	0
SSVLQLR	NPTX1	Q15818	NPTX1	HUM	Unmodified	756530	0	0	0	0	0	0	0	0
SSVLTQVNQLK	SYNE2; SYNE2; SYN	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	1316800	1399200	2089400	0	0	0	0	0	0
SSVMRENENGEEEEEEAEFGEEDLFHQQGDPR	LMNB2	Q03252	LMNB2	HUM	Oxidation (M);Deai	1297600	1341000	0	0	0	0	0	0	0
SSVNCPFSSQDMKYPSPFFVFGEK	DHX9	Q08211	DHX9	HUMA	Oxidation (M)	598430	1077700	2525400	0	0	0	0	0	0
SSVPLYLIVPSVENVR	TDP1; TDP1; TDP1;	Q9NUW8; G3V2F	TYDP1	HUM	Unmodified	1459900	817910	885720	0	0	0	0	0	0
SSVSHSVLSEMQVIEQETPVSAK	ARFGAP2; ARFGAP	Q8N6H7; H0YDN	ARFG2	HUM	Oxidation (M)	4028200	2790400	2792200	217930	0	64309	98358	0	0
SSYASQHSQLGQDLR	PKP4; PKP4	Q99569; A0A0D9	PKP4	HUMA	Unmodified	626690	684870	748680	248560	0	173550	0	39323	0
SSYLESPR	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1	HUM	Unmodified	2446000	3822700	2165000	48683	0	57378	0	0	0
SSYNLVPR	GNPAT; GNPAT	O15228; Q5TBH8	GNPAT	HUM	Unmodified	702040	470830	432690	63919	68702	75026	16277	0	0
SSYYVVSGNDPAAEEPSR	MAP1B	P46821	MAP1B	HUM	Unmodified	1792200	1159700	0	187670	168340	0	0	0	0
STAAFHISSLLEK	CAND2; CAND2; CA	O75155; F8WBB8	CAND2	HUM	Acetyl (Protein N-t	1414000	1408800	0	0	0	0	0	0	0
STAEFQR	BRD8; BRD8; BRD8;	Q9H0E9; B5MCW	BRD8	HUM	Unmodified	725260	0	0	0	0	0	0	0	0
STAEGEAFIQALPGSGTTPLLR	PPL; PPL	O60437; K7EKJ8	PEPL	HUMA	Unmodified	636480	446720	517120	0	0	0	26505	0	0
STAGDPTVPGSLFR	COG1	Q8WTW3	COG1	HUMA	Unmodified	1069200	1089500	960790	148710	206910	160520	34744	41676	32990
STAGDTHLGGEDFDNR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C	HUM	Unmodified	4039300	3661400	2997700	79562	91671	57862	0	0	0
STAGDTHLGGEDFDNR	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C	HUM	Deamidation (N)	395420	332890	389570	0	0	0	0	0	0
STANKYQVFFFGTHETAFLGPK	HDGF	P51858	HDGF	HUMA	Unmodified	1491200	766300	858960	0	0	0	45154	0	0
STANKYQVFFFGTHETAFLGPK	HDGF	P51858	HDGF	HUMA	Deamidation (N)	1291400	1022700	1945300	0	0	0	0	0	0
STANNVEIHIPVPNDADSPK	AP1M1; AP1M1; AP	Q9BXS5; K7EJL1	AP1M1	HUM	2 Deamidation (N)	0	312780	476700	0	0	0	0	0	0
STAPASLSR	NUP214; NUP214; N	P35658; A0A494	NU214	HUM	Unmodified	2178300	2365400	2090300	640520	608090	614270	0	0	71891
STAVPSAGDTAPEQDSVERR	CHTF18; CHTF18; C	Q8WVB6; A0A0D	CTF18	HUM	Unmodified	938160	1037800	1125200	0	0	0	0	0	0
STAVTTSSAK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY	HUM	Unmodified	4617600	4198800	4393500	236250	151140	213350	0	0	0
STAYEDYYYHPPPR	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	12947000	13532000	15841000	555770	717680	519770	150560	142140	107920
STCIYGGAPK	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUM	Unmodified	1955400	1963100	2158400	120440	226940	138190	0	0	0
STDFAPIKEDFGQEK	MAP1B	P46821	MAP1B	HUM	Unmodified	1250400	1511900	1254100	203500	120190	0	0	0	0
STDHPKYSDMIVAAIQAEK	H1-0	P07305	H10	HUMAN	Oxidation (M)	0	653540	825370	25186	27005	17088	0	0	0
STDHPKYSDMIVAAIQAEKNR	H1-0	P07305	H10	HUMAN	Oxidation (M)	5122600	2335200	4537500	531190	315730	184460	87853	54871	72307
STDPVTTKETK	PRRC2C; PRRC2C; I	Q9Y520; H7C5N8	PRC2C	HUM	Unmodified	0	0	1351600	0	0	342420	0	0	0
STDTGVSLPSYEEDQGSKLIRK	HIGD1A; HIGD1A; N	Q9Y241; C9JNU6	HIG1A	HUM	Acetyl (Protein N-t	1229300	0	986910	0	115580	106060	44809	41632	45547
STDVPNTGVSKPR	PKP4; PKP4; PKP4;	Q99569; H0YFB1	PKP4	HUMA	Unmodified	0	285140	373940	124690	160950	158060	0	0	16385
STEEARKELQAAGK	GPI; GPI	P06744; A0A2U3	G6PI	HUMA	Unmodified	4217400	5052400	7196300	0	0	0	0	0	0
STEEARKELQAAGKSPEDLER	GPI; GPI	P06744; A0A2U3	G6PI	HUMA	Unmodified	19039000	14706000	14163000	0	0	395150	0	0	0
STEEQELEK	TPX2	Q9ULW0	TPX2	HUMA	Unmodified	299020	324920	865800	0	0	0	0	0	0
STEEVKPIDENLGQTGK	ACBD5; ACBD5; AC	Q5T8D3; A0A7I2	ACBD5	HUM	Unmodified	743600	726590	828020	47595	58918	45421	0	0	0
STEIGKLLSSYLQK	DTYMK; DTYMK; D	P23919; G5E9E9;	KTHY	HUM	Unmodified	3929400	3163000	3724500	0	0	0	0	0	0
STEIKWK	SET; SET	Q01105; A0A0C4	SET	HUMAN	Unmodified	3932600	3138900	3171400	164560	221350	187300	0	0	0
STELLIR	H3-2; H3-4; H3-3A;	Q5TEC6; Q16695	H3PS2	HUM	Unmodified	1373500000	1223700000	1321100000	31913000	32119000	27772000	1023600	861010	859450
STELLIRK	H3-2; H3-4; H3-3A;	Q5TEC6; Q16695	H3PS2	HUM	Unmodified	1626200	1483800	1355000	105710	127590	0	0	0	0
STEPELIQVK	SLC1A5; SLC1A5	Q15758; M0QXM	AAAT	HUM	Unmodified	4879900	3576200	2799400	112050	138760	85400	0	0	0
STETALYR	FKBP8; FKBP8; FKB	Q14318; A0A0A0	FKBP8	HUM	Unmodified	0	1442900	1643400	0	78238	93345	0	0	0
STFAGHGR	GAA; GAA	P10253; I3L2V9	LYAG	HUM	Unmodified	1661500	1193600	1477700	406260	431620	294200	48533	33709	0
STFSTNYR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Unmodified	9395700	8599100	2700800	19992000	17568000	21710000	2493200	2919700	1108000
STFSTNYR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Deamidation (N)	6852000	6968600	6490600	7109200	6457600	8015900	520960	497030	0
STFSTNYRSLGSVQAPSYGAR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Deamidation (N)	0	0	0	110420	79703	76929	44841	36717	43161
STFVLDEFK	EEF1G	P26641	EF1G	HUMA	Unmodified	5550900	6096000	3877200	75608	79466	0	0	15550	0
STFVLDEFKR	EEF1G	P26641	EF1G	HUMA	Unmodified	47348000	55353000	42985000	1814600	1693700	1689400	106740	0	0
STFVLDEFKR	EEF1G	P26641	EF1G	HUMA	Methyl (KR)	0	1052800	1447300	39339	19389	33473	0	0	0
STFVLDEFKRK	EEF1G	P26641	EF1G	HUMA	Unmodified	3494000	4857700	3419400	249060	159090	101800	0	0	0
STFVNILK	DCK; DCK; DCK	P27707; D6RFG8;	DCK	HUMA	Unmodified	2922400	2499000	2183700	15362	0	9033.6	0	0	0
STGAEPGLAR	OTUD7B; OTUD7A;	Q6GQQ9; Q8TE4	OTU7B	HUM	Unmodified	1077600	1367200	1123200	48185	61874	88290	0	0	0
STGCDFAVSPK	OXCT1; OXCT1	P55809; E9PDW2	SCOT1	HUM	Unmodified	944460	988250	848830	0	135000	94481	0	0	0
STGDIAGTVVPETNKEPR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	3645000	2759500	3355700	213530	150130	183550	0	0	0
STGDIAGTVVPETNKEPR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Deamidation (N)	1459400	2867700	2478200	0	0	0	0	0	0
STGDVAGGR	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	0	785140	673430	0	36933	0	0	0	0
STGEAFVQFASK	HNRNPH3	P31942	HNRH3	HUM	Unmodified	63078000	58432000	62271000	1251500	877410	1090800	44759	0	68302
STGEAFVQFASKEIAENALGK	HNRNPH3	P31942	HNRH3	HUM	Unmodified	1388800	791910	1337600	0	0	0	0	0	0
STGEAFVQFASKEIAENALGKHKER	HNRNPH3	P31942	HNRH3	HUM	Unmodified	1977600	1978000	1582000	0	0	0	0	0	0
STGEAFVQFASQEIAEK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Unmodified	75033000	71020000	69603000	0	0	53070	58051	0	0
STGEAFVQFASQEIAEK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Methyl (KR)	573090	365090	557790	0	0	0	0	0	0
STGEAFVQFASQEIAEKALK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Unmodified	5439300	3623200	6133600	0	0	0	0	0	0
STGEAFVQFASQEIAEKALK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Methyl (KR)	5251900	3846600	1165200	0	0	0	0	0	0
STGEAFVQFASQEIAEKALKK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Unmodified	6749200	4672900	4973300	0	0	0	0	0	0
STGEAFVQFASQEIAEKALKK	HNRNPH1; HNRNPH	P31943; P55795;	HNRH1	HUM	Methyl (KR)	0	1197500	0	0	0	0	0	0	0
STGEPLGHVPAR	LPP; LPP; LPP; LPP;	Q93052; C9JUT4;	LPP	HUMAN	Unmodified	1042000	913260	1180900	291820	315780	270130	151330	0	192570
STGGAPTFNVTVTK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Unmodified	51827000	32084000	33983000	828860	808520	829370	152070	167560	161820
STGGAPTFNVTVTK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Deamidation (N)	4959100	4983600	3410800	131940	66820	56216	0	0	0
STGGAPTFNVTVTKTDK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Unmodified	6495200	6762200	7429900	205790	82328	304640	56367	0	0
STGGAPTFNVTVTKTDK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Methyl (KR)	3908000	3089500	2731300	84845	68738	65078	0	0	0
STGGAPTFNVTVTKTDK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Deamidation (N)	827110	1890200	1279900	0	0	0	0	0	0
STGGAPTFNVTVTKTDKTLVLLMGK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Oxidation (M)	1945200	1829400	1489300	0	0	0	0	0	0
STGGAPTFNVTVTKTDKTLVLLMGK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Oxidation (M);Deai	2593200	2214500	2577400	0	0	0	0	0	0
STGGISVPGPMGPSGPR	COL1A1	P02452	CO1A1	HUM	Oxidation (M)	14999000	11789000	15409000	11084000	11494000	11026000	8707000	7381500	7217800

STGKGIVEFASKPAAR	SFPQ	P23246	SFPQ_HUMA	Unmodified	6088500	5355200	5227000	867970	870820	914360	63379	49217	53965
STGKYSLATEEIERDLHR	TBC1D9B; TBC1D9I	Q66K14; H0YB08	TBC9B_HUM	Unmodified	467060	481120	541500	0	0	0	0	0	0
STGLELETPSLVPVKK	PPP1R10	Q96QC0	PP1RA_HUM	Unmodified	0	0	0	0	104100	37364	0	0	0
STGLILDSGATHTTAIPVHDGYVLQQGIVK	ACTL6A	O96019	ACL6A_HUM	Unmodified	8012400	7935800	9201900	0	0	0	0	0	0
STGLNAVPSQILEGQWAAR	ITGAV	P06756	ITAV_HUMA	Unmodified	0	825720	738950	0	0	0	0	0	0
STGNFLTLTQAIDKFSADGMR	LARS1; LARS1; LAR	Q9P2J5; A0A61BP	SYLC_HUMA	Oxidation (M)	2379400	2211900	0	0	0	0	0	0	0
STGPGASLGTGYDRKDYV	CLDN3	O15551	CLD3_HUMA	Unmodified	5485300	4217400	5374600	4598000	4319000	4210300	1515500	1279200	1247200
STGPTAATGSNRR	VAMP3	Q15836	VAMP3_HUM	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
STGSATSLASQGER	CEP170; CEP170	Q5SW79; H0Y2V4	CE170_HUM	Unmodified	0	0	0	0	0	0	0	0	0
STGSIVGGQPFGGAR	ALDH4A1	P30038	AL4A1_HUM	Unmodified	644130	646800	501680	136690	160470	192710	0	0	32587
STGTETGSNINVNSELNPSTGNR	PDS5A	Q29RF7	PDS5A_HUM	Unmodified	0	0	0	72780	0	158420	0	0	0
STGTFVVSQPLNYRGGAR	ALDH9A1	P49189	AL9A1_HUM	Acetyl (Protein N-t	2801200	2105800	1746300	297800	315330	335320	248080	162000	305220
STGYDPVKLFTK	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2_HUMA	Unmodified	1681200	1651600	1304300	41545	0	0	0	0	0
STHGLAILGPENPK	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2V	PREP_HUMA	Unmodified	6765400	4632900	4384000	212810	262580	156370	23599	22876	0
STHTLDLSR	LGALS3BP; LGALS3	Q08380; K7EJY8;	LG3BP_HUM	Unmodified	516840	1235300	596790	0	0	0	0	0	0
STIGVEFATR	RAB11A; RAB11B; I	P62491; Q15907;	RB11A_HUM	Unmodified	11899000	9831300	11374000	1428600	592120	560320	125370	0	0
STIIGESISR	RARS1	P54136	SYRC_HUMA	Unmodified	2096900	1715900	2376700	0	0	0	0	0	0
STIKTDLDDDITALK	CDC73; CDC73; CDC	Q6P1J9; A0A2R8Y	CDC73_HUM	Unmodified	911490	489380	521720	0	0	0	0	0	0
STISSREIQTAVR	H2BC1	Q96A08	H2B1A_HUM	Unmodified	0	0	0	143880	0	186510	71684	0	0
STITEIKECADEPVGK	GLG1; GLG1; GLG1	Q92896; H3BQU9	GSLG1_HUM	Unmodified	945810	754390	678860	68886	0	48147	0	0	0
STITSREIQTAVR	H2BC4; H2BC11; H2	P62807; P06899; (	H2B1C_HUM	Unmodified	333160000	274430000	279860000	77152000	37913000	96655000	6233700	4996500	3264700
STITSREVQTAVR	H2BU1	Q8N257	H2B3B_HUM	Unmodified	1747200	1532300	1232100	45869	164100	43733	0	0	0
STKHWELTAEGEEIAR	FARSA; FARSA; FAI	Q9Y285; K7ER16	SYFA_HUMA	Unmodified	1477200	1136500	1332900	0	0	0	0	0	0
STLADYSAQKDLEPESDR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT(	ACINU_HUM	Unmodified	4332400	538310	945850	0	0	204150	0	0	0
STLCSRR	POLR2A; POLR2A	P24928; A0A6Q8I	RPB1_HUMA	2 Methyl (KR)	393140	0	0	0	0	0	0	0	0
STLDTDYQMTKR	ADA; ADA	P00813; F5GWI4	ADA_HUMA?	Oxidation (M)	789930	626830	0	0	0	0	0	0	0
STLEAETR	DSP	P15924	DESP_HUMA	Unmodified	7345700	328910	17937000	437260	0	0	0	0	0
STLEPVEK	HSPA6; HSPA1A; HS	P17066; P0DMV8	HSP76_HUM	Unmodified	32876000	28610000	0	1911300	0	0	0	0	0
STLFVPR	PEPD; PEPD; PEPD;	P12955; V9GYL0;	PEPD_HUMA	Unmodified	11279000	8342200	10784000	1073100	964660	1067000	185230	98003	131580
STLFWGAR	GSDMA; GSDMA	Q96QA5; J3KRG2	GSDMA_HUM	Unmodified	0	0	0	62103	64884	91211	0	0	0
STLHEAPK	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1_HUM	Unmodified	195580	0	181230	0	0	23113	0	0	0
STLINSLFLTDLYPER	SEPTIN2; SEPTIN2;	Q15019; C9IZU3;	SEPT2_HUM	Unmodified	835800	530810	747170	0	0	0	0	0	0
STLINSLFLTDLYPER	SEPTIN2; SEPTIN2;	Q15019; C9IZU3;	SEPT2_HUM	Deamidation (N)	102070	50288	70906	0	0	0	0	0	0
STLINSLFLTDLYSPEYPGPSHR	SEPTIN7; SEPTIN7;	Q16181; A0A0U1	SEPT7_HUM	Unmodified	2395600	2853100	2440700	0	0	0	0	0	0
STLINSLFLTDLYSPEYPGPSHR	SEPTIN7; SEPTIN7;	Q16181; A0A0U1	SEPT7_HUM	Deamidation (N)	3279200	2425600	2092000	0	0	0	0	0	0
STLINTLFK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9_HUM	Unmodified	9411700	6465700	6387500	19063	22584	15642	0	7786.7	0
STLLFGQR	KIF5B	P33176	KINH_HUMA	Unmodified	3650600	3086500	2910700	99494	92621	104960	0	0	0
STLMDTLFNTKFESDPATHNEPGVR	SEPTIN11; SEPTIN1	Q9NVA2; D6RER	SEP11_HUM	Oxidation (M)	0	0	1646300	0	0	0	0	0	0
STLNEIYFGK	CAPZB; CAPZB; CA	P47756; B1AK88;	CAPZB_HUM	Unmodified	10830000	9936500	9927100	22984	182040	0	0	0	0
STLNELVDYITISR	PPP2R5E	Q16537	2A5E_HUMA	Unmodified	524650	250810	360320	0	0	0	0	0	0
STLPDADRER	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	2382800	231720	291030	61164	67146	99662	0	0	0
STLQEVVGIR	IGSF8; IGSF8	Q969P0; C9J8Z4	IGSF8_HUM	Unmodified	1435000	1388900	1290800	143080	151030	128900	0	0	0
STLQTLPEIVAK	LETM1	O95202	LETM1_HUM	Unmodified	3136400	2415500	2790600	77722	73404	67817	0	0	0
STLQTMESDIYTEVR	CKAP4	Q07065	CKAP4_HUM	Oxidation (M)	0	739580	1095100	158150	116380	0	0	0	0
STLTDSLVCK	EEF2	P13639	EF2_HUMAN	Unmodified	4117100	3065600	3980600	104960	115280	120020	0	0	0
STLYVSPHPDAFPSLR	VARS1; VARS1; VAI	P26640; A2ABF4;	SYVC_HUMA	Acetyl (Protein N-t	0	2001000	1940500	132990	143660	92854	0	29826	0
STMVDPAINLFFLK	WTAP; WTAP	Q15007; A0A087	FL2D_HUMA	Oxidation (M)	4037000	3090600	4517600	0	0	0	0	0	0
STMVGTPYWMAPEVVTR	PAK2; PAK3; PAK1;	Q13177; O75914;	PAK2_HUMA	2 Oxidation (M)	7833400	7419900	7201900	338680	353210	376460	0	49096	67879
STMVGTPYWMAPEVVTRK	PAK2; PAK3; PAK1;	Q13177; O75914;	PAK2_HUMA	2 Oxidation (M)	0	2433700	2130700	105850	0	93571	22762	53209	0
STNGDTFLGGEDFDQALLR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Deamidation (N)	17997000	13950000	11830000	0	0	0	0	0	0
STNKGTAYTFFTPGNLK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Deamidation (N)	3830300	4111200	3220100	61521	49599	74704	0	0	0
STNKGTAYTFFTPGNLK	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Unmodified	4598300	2810400	0	0	0	56092	18084	0	0
STNPGISIGDVAK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Unmodified	27615000	20066000	22605000	231470	262950	255550	0	0	0
STNPGISIGDVAKK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Unmodified	8814400	8580800	8025600	73431	97510	137540	0	0	0
STNPGISIGDVAKK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3_HUM	Methyl (KR)	3316000	2379200	2030100	0	0	33379	0	0	0
STNVTVAAAR	ZNF326; ZNF326	Q5BKZ1; A0A0A(	ZN326_HUM	Unmodified	0	490630	0	39556	25077	38664	0	0	0
STPAITLESPDIKYPLR	CYB5R3; CYB5R3	P00387; B1AHF3	NB5R3_HUM	Unmodified	4266900	5274300	4134500	30834	12783	0	26008	13140	36964
STPKEDDSSASTSQSTR	EIF4B; EIF4B; EIF4B	P23588; E7EX17;	IF4B_HUMA	Unmodified	3046600	3265700	4051300	577620	652950	596020	0	0	0
STPLGQQQPAPR	LTBP2; LTBP2; LTB	Q14767; G3V3X5	LTBP2_HUM	Unmodified	0	0	0	199270	171050	265030	0	0	0
STPPEVIVEVLEPYVVR	RBM6; RBM6; RBM	P78332; F8WCA5	RBM6_HUM	Unmodified	319740	218980	347600	0	0	0	0	0	0
STPVNVPISQK	PDCD6IP	Q8WUM4	PDC6I_HUM	Unmodified	3629200	3313200	3498000	152960	114170	212070	0	0	0
STPVNVPISQKFTDLFEK	PDCD6IP	Q8WUM4	PDC6I_HUM	Unmodified	4813700	4574000	4723900	0	0	0	0	0	0
STPVPEVVQELPLTSPVDDFR	OCLN; OCLN	Q16625; A0A0G2	OCLN_HUM	Unmodified	541890	488560	0	0	0	0	0	0	0
STPVPEVVQELPLTSPVDDFRQPR	OCLN; OCLN	Q16625; A0A0G2	OCLN_HUM	Unmodified	3057300	2730400	3022200	0	0	0	0	0	0
STPVTSAVQIPEVK	ZFR	Q96KR1	ZFR_HUMAN	Unmodified	1261800	1072600	1043400	63115	17720	11244	0	0	0
STPVTVVLPDTK	EFTUD2	Q15029	USS1_HUMA	Unmodified	2400900	2452300	2189000	101200	131040	134300	0	0	0
STQAATQVVLNVPETR	PMPCB; PMPCB; PA	O75439; G3V0E4;	MPPB_HUM	Unmodified	2901600	2252500	2328100	300370	311950	228260	0	0	51559
STQAPLIIRPDSGNPLDTVLK	NAMPT; NAMPT; N	P43490; A0A0C4I	NAMPT_HUM	Unmodified	618270	957830	542490	0	0	0	0	13316	0
STQENNTKQLR	TIAL1	Q01085	TIAR_HUMA	Deamidation (N)	0	0	294300	0	0	0	0	0	0
STQGVTLTDLQEAEKTIGR	PPP1R12A; PPP1R12	O14974; F8VZN8;	MYPT1_HUM	Unmodified	3284500	4179300	3944300	93682	0	0	166940	0	56299
STQYMKEYQDAFLFNELKGETMDTS	RUVBL2	Q9Y230	RUVB2_HUM	2 Oxidation (M)	6588700	4424800	3902900	0	0	0	0	0	0
STQYQELLQDLSEK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	199440	198880	266820	0	0	0	0	0	0
STRESFNPESYELDKSFR	SEPHS1; SEPHS1	P49903; Q5T5U6	SPS1_HUMA	Acetyl (Protein N-t	0	984770	0	120870	136530	120060	32288	20938	0
STRFEEFLQR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1_HUMA	Unmodified	1074800	1566500	1304700	0	0	0	0	0	0
STRQTTITSHFAK	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1_HUM	Unmodified	272860	277360	393130	0	0	0	0	0	0
STSESTAALGCLVK	IGHG2; IGHG4; IGH	P01859; P01861;	IGHG2_HUM	Unmodified	0	849460	2118300	40823	49581	0	0	0	0
STSFQTQLGPSGHDAGR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	7865100	10311000	10714000	144070	186950	184210	0	0	0
STSFQTQLGPSGHDAGRR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	519660	880480	2510900	0	0	0	0	0	0
STSHKPDEIYGMIER	METTL3	Q86U44	MTA70_HUM	Oxidation (M)	638550	531500	491250	135810	71198	0	0	0	0
STSLDVEPIYTFR	STRN	O43815	STRN_HUMA	Unmodified	1596400	1591500	1369700	68282	58216	55319	13860	0	0
STSSFPCPAGHFNGFR	LGALS3BP	Q08380	LG3BP_HUM	Deamidation (N)	5602600	3850000	4337800	17385	42837	54551	0	0	0
STSVPQGHTWTQR	COA4	Q9NYJ1	COA4_HUMA	Acetyl (Protein N-t	1648600	934800	849050	0	283620	238660	0	0	0
STSYGYSR	SRSF9	Q13242	SRSF9_HUM	Unmodified	2251400	1982400	391700	357150	234550	74509	0	14372	15461
STTELLPR	PRKD2	Q9BZL6	KPCD2_HUM	Unmodified	434220	694250	433560	137320	43272	113160	0	0	9126.7
STTLDAGNIK	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A_HUM	Unmodified	3370600	3580400	3264800	0	0	0	0	0	0
STTLEKEVPVIFHPLNTGLFR	RALGAPB; RALGAI	Q86X10; A2A2F0	RLGPB_HUM	Unmodified	372790	423060	419360	0	0	0	0	0	0
STTLFSR	ACLY	P53396	ACLY_HUMA	Unmodified	3277100	3043100	3131700	671020	655970	835660	116130	38471	0
STTPDITGYR	FN1	P02751	FINC_HUMA	Unmodified	2134200	9945900	9260400	1512200	1605500	1565000	145200	123890	130300
STTPTSSPFR	PRRC2C; PRRC2C; I	Q9Y520; A0A2R8	PRC2C_HUM	Unmodified	1195600	2704200	2175600	91155	51708	0	0	0	0
STTSTIESFAAQEK	LUC7L3; LUC7L3	O95232; J3KPP4	LC7L3_HUM	Unmodified	3577300	3406900	4025200	0	173130	0	0	25302	0
STTTGHLIYK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Unmodified	6634600	7332300	6629900	0	193280	410180	22434	35471	32768
STTYSLESPKDPVLPAR	PDS5B; PDS5B	Q9NTI5; A9IYQ1	PDS5B_HUM	Unmodified	3606600	4875100	3729300	244740	320060	0	0	0	0
STVAQLVK	ATP5F1A; ATP5F1A	P25705; K7ENJ4	ATPA_HUMA	Unmodified	10780000	12956000	11853000	198380	194810	181670	8065.5	0	0
STVDAEAVHKLLTLIK	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6_HUM	Unmodified	1138300	1143500	1895700	0	0	0	0	0	0
STVDAPTAAGR	CCT7	Q99832	TCPH_HUMA	Unmodified	8480800	6388600	6870000	582510	464280	341160	0	0	0
STVEELHEPIPSLFR	TWSG1; TWSG1	Q9GZX9; J3QSO3	TWSG1_HUM	Unmodified	2802000	3013800	4814200	40179	24993	0	0	0	0
STVEGIQASVK	VCL	P18206	VINC_HUMA	Unmodified	2582900	2856700	2549400	171310	123320	189420	0	0	0
STVHEILCK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Acetyl (Protein N-t	3228400	2732700	2305700	816170	1173300	844000	0	124980	136530
STVHEILCKLSLEGDHSTPPSAYGSVK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Acetyl (Protein N-t	510510	277160	345270	0	0	0	49651	0	0
STVLQQQYNR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	670800	680870	755430	0	66616	103010	36442	0	0
STVLTPMFVETQASQGTLQTR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	45956000	38665000	51032000	1707300	1410300	802790	125100	139650	207950
STVNVSTSR	HMGN3	A0A087WZE9	A0A087WZE9	Unmodified	1612600	1436300	0	90062	0	107120	0	0	0
STVPGHAGR	PNP; PNP; PNP	P00491; G3V2H3;	PNPH_HUMA	Unmodified	1558500	1696700	2341800	53855	0	0	86561	0	0
STVPTDFSSAKIEVSQLLK	CD47; CD47	Q08722; A0A2R8	CD47_HUMA	Methyl (KR)	2645300	1979100	1788700	0	0	0	0	0	0
STVRDIDPQNDLTFLR	DYNLRB2; DYNLRI	Q8TF09; Q9NP97	DLRB2_HUM	Unmodified	23828000	22807000	18531000	148440	0	21723	46748	0	0
STVRDIDPQNDLTFLR	DYNLRB2; DYNLRI	Q8TF09; Q9NP97	DLRB2_HUM	Deamidation (N)	9299900	9528500	6701900	0	0	30624	0	0	23870
STVVPVPYEK	GTF2I; GTF2I	P78347; A0A494(	GTF2I_HUM	Unmodified	1509800	1496200	1332800	158650	163070	226750	0	0	0
STYNHLSSWLTDAR	RAB14; RAB14	P61106; X6RFL8	RAB14_HUM	Deamidation (N)	1369400	1404400	1235400	0	0	0	0	0	0
STYPPSGPTYR	ASAH1; ASAH1; AS	Q13510; A0A1B0	ASAH1_HUM	Unmodified	1327900	1281200	1562800	328530	302980	170550	0	0	0
STYVTEVR	KTN1; KTN1; KTN1	Q86UP2; B7Z6P3	KTN1_HUMA	Unmodified	0	0	3398800	130790	0	213730	0	0	0
SVAAFTADPLSLLR	ARAP1; ARAP1; AR	Q96P48; A0A0A0	ARAP1_HUM	Unmodified	1836800	1904400	1961900	0	0	0	0	0	0
SVAAIHPSLEIPMLIPK	PRPSAP2; PRPSAP2	O60256; E7EPA1;	PRPS2_HUMA	Oxidation (M)	14259000	13894000	12288000	0	0	0	16022	0	0
SVAEGLSGSLVQEPFQLATEK	TPX2	Q9ULW0	TPX2_HUMA	Unmodified	1132500	526610	963950	0	0	0	13681	0	0
SVAFPPFPSGR	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	1939800	0	1989000	95473	0	78000	0	0	0
SVAGGEIRGDTGGEDTAAPGR	DCTPP1	Q9H773	DCTP1_HUM	Acetyl (Protein N-t	2393100	2603900	2167700	0	0	0	0	0	0
SVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRR	DCTPP1	Q9H773	DCTP1_HUM	Acetyl (Protein N-t	0	11985000	13497000	0	0	0	0	0	0
SVAPAAPTSCDFSPGDLVWAK	MSH6; MSH6; MSH6	P52701; A0A087V	MSH6_HUM	Unmodified	3597600	3780300	3634200	0	0	0	0	0	0
SVAQVTGGIAK	PMPCA	Q10713	MPPA_HUM	Unmodified	3711000	3259600	3398700	154530	139740	175960	0	0	0
SVAQVTGGIAKLER	PMPCA	Q10713	MPPA_HUM	Unmodified	1503900	1760200	1096700	160210	142410	130440	0	0	0
SVATGPMTPQAAAPPAFPEVR	GPRIN1	Q7Z2K8	GRIN1_HUM	Oxidation (M)	9219500	7789100	10455000	216970	273040	216210	0	0	0
SVAVYGGGSMWEQAK	DDX42; DDX42	Q86XP3; A0A0A(	DDX42_HUM	Oxidation (M)	1047500	781170	1027700	0	0	0	0	0	0
SVCLIGDKEQR	SMARCA5	O60264	SMCA5_HUM	Unmodified	419350	763190	904390	0	23765	0	0	0	0
SVCTEAGMFAIR	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Oxidation (M)	872750	665110	950100	212560	0	0	0	0	0
SVDALDDLTPPSTAESGSR	LSR; LSR	Q86X29; S4R3V8	LSR_HUMAN	Unmodified	805800	587930	1016300	61300	0	0	11681	0	19125
SVDDTSQAIQR	COLEC12	Q5KU26	COL12_HUM	Unmodified	0	0	0	98677	163800	99209	0	0	0
SVDETTQAMAFDGIIFQGQSLK	U2AF2; U2AF2	P26368; K7ENG2	U2AF2_HUM	Oxidation (M)	4691400	3237900	3421700	0	0	0	0	0	0
SVDFDSLTVR	CD2AP	Q9Y5K6	CD2AP_HUM	Unmodified	3851100	3616400	4102100	421100	452070	485380	19938	0	0
SVDIHDSIQPR	ARFGEF1; ARFGEF1	Q9Y6D6; E5RHL7	BIG1_HUMA	Unmodified	962120	816950	615110	0	556400	0	0	80038	58842
SVDNRPQAPLVSASAVNEEVSK	ARFGEF1; ARFGEF1	Q9Y6D6; E5RHL7	BIG1_HUMA	Unmodified	2631000	0	0	121290	79529	86074	0	0	0
SVDPDSPAEASGLR	SLC9A3R1	O14745	NHRF1_HUM	Unmodified	7003400	5797200	7404300	391830	474240	503960	0	0	0
SVDPDSPAEASGLRAQDR	SLC9A3R1	O14745	NHRF1_HUM	Unmodified	3495600	3649400	5472100	0	0	0	0	0	0
SVDPGSPAAR	SLC9A3R2; SLC9A3	Q15599; H3BUQ9	NHRF2_HUM	Unmodified	0	2525700	2060800	876760	705870	820370	0	0	30923

SVDVFGSTPFQPFLTSTSK	BMP2K; BMP2K	Q9NSY1; H0Y9P1	BMP2K	HUM	Unmodified	119260	143620	245480	0	0	0	0	0	0
SVDVILDDDLVDKAKPGDR	MCM3; MCM3; MCI	P25205; A0A499F	MCM3	HUM.	Unmodified	1161900	840430	0	0	0	0	0	0	0
SVDVTDVTK	PHF2	O75151	PHF2	HUM	Unmodified	1487400	1699500	1703600	0	0	0	0	0	0
SVEAAAELSAK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUM	Unmodified	18088000	39777000	29487000	128240	293170	457270	61358	30622	73765
SVEAAAELSAKDLK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUM	Methyl (KR)	2614800	2856900	0	0	0	0	0	0	0
SVEAAAELSAKDLK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUM	Unmodified	7216800	7916600	7226700	63772	0	0	0	0	0
SVEAAAELSAKDLKEKK	PTMS; PTMS	P20962; F5GXR3	PTMS	HUM	Unmodified	2095600	758110	2460500	0	0	0	0	0	0
SVEAILEESTEKLK	USP47	Q96K76	UBP47	HUM.	Unmodified	457090	616200	847160	0	0	0	0	0	0
SVEDAQDVSLALTQR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2140100	1093400	1010700	109010	73413	0	54058	0	0
SVEDRFDQQKNDYDQLQK	DSP	P15924	DESP	HUM	Unmodified	3281700	3241100	2502500	0	0	0	0	0	0
SVEDRFDQQKNDYDQLQK	DSP	P15924	DESP	HUM	Deamidation (N)	5531500	3912900	4305200	156720	93939	118660	0	0	0
SVEEEEQVWR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	1862700	0	1235200	422000	933130	1198500	0	0	0
SVEEISTLVQK	MRPL43; MRPL43;)	Q8N983; H0Y6Y8	RM43	HUM	Unmodified	802550	1025400	794150	24272	0	0	0	0	0
SVEEPTQPGGTGLSDSR	KLC2	Q9H0B6	KLC2	HUM	Unmodified	1227600	1053900	1515900	59702	48933	0	0	0	0
SVEERDSGSFVAFQNIPGSELMSSFAK	TMPO	P42166	LAP2A	HUM	Oxidation (M)	8377500	1996300	2177600	0	0	0	0	0	0
SVEESAGLVGLK	FMC1	Q96HJ9	FMC1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SVEESAGLVGLKLPHQPGGKGWEP	FMC1	Q96HJ9	FMC1	HUM	Unmodified	1291000	1120500	977630	0	0	0	23560	0	0
SVEETLR	PRDX3	P30048	PRDX3	HUM	Unmodified	75807000	80837000	75606000	1925100	1843300	1995900	0	0	0
SVEETLRLVK	PRDX3	P30048	PRDX3	HUM	Unmodified	0	3759400	0	522850	537930	571330	0	0	0
SVEEVASEIQPFLR	DSP	P15924	DESP	HUM	Unmodified	11560000	9180400	13706000	0	0	0	0	0	0
SVEGLQEGSVLR	CLUH; CLUH; CLUI	O75153; I3L2B0;	CLU	HUM	Unmodified	1593300	1169100	1367500	0	0	0	0	0	0
SVEGRPLWVLR	CPD	O75976	CBPD	HUM	Unmodified	1161600	1451600	1063800	0	0	0	0	0	0
SVEKENVAVESEKNLGPSRR	CCDC9; CCDC9; CC	Q9Y3X0; A0A2R8	CCDC9	HUM	Unmodified	454870	1228800	769800	110930	175780	82656	0	24710	0
SVELEEALPVTTAEGMAK	H1-10	Q92522	H1X	HUM	Oxidation (M)	0	0	0	76855	50587	67260	0	0	0
SVELEEALPVTTAEGMAKK	H1-10	Q92522	H1X	HUM	Acetyl (Protein N-t	1519300	1974400	2683100	143730	107710	75996	0	0	0
SVELEEALPVTTAEGMAKKVTK	H1-10	Q92522	H1X	HUM	Acetyl (Protein N-t	986210	672990	867930	0	0	0	55958	0	0
SVELEEALPVTTAEGMAKKVTK	H1-10	Q92522	H1X	HUM	Acetyl (Protein N-t	0	0	0	309510	167340	0	358010	0	99009
SVEMHHEALSEALPGDNVGFNVK	EEF1A2; EEF1A1; EI	Q05639; P68104;	EF1A2	HUM	Oxidation (M)	2695200	1759800	1401800	0	0	0	0	0	0
SVEPQDAGPLER	OGFR; OGFR	Q9NZT2; A0A0A	OGFR	HUM	Unmodified	1038300	1526100	1454900	0	0	0	0	0	0
SVEQEENKWK	KTN1; KTN1; KTN1	Q86UP2; G3V5P0	KTN1	HUM	Unmodified	1635300	1991200	1723200	170350	0	0	0	0	0
SVESTSPEPSKIMLVEPPVAK	SON	P18583	SON	HUM	Oxidation (M)	0	7675500	0	374620	0	815090	0	37646	0
SVETDSSTVEHVR	CYFIP2; CYFIP2; CY	Q96F07; H7C229;	CYFP2	HUM	Unmodified	873440	926440	1003800	0	0	0	0	0	0
SVETLKEMIK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Oxidation (M)	23361000	19386000	23078000	545960	468010	786970	0	0	0
SVETLKEMIK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Oxidation (M);Metl	924910	1556000	3409500	26054	0	0	0	0	0
SVETLKEMIKSGMNVAR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	2 Oxidation (M)	678970	1199400	1052100	449650	579730	437170	0	43386	63255
SVEVAAGATAR	GRB7	Q14451	GRB7	HUM	Unmodified	0	407120	0	0	0	0	0	0	0
SVEVQGETETIIATK	USO1	O60763	USO1	HUM	Unmodified	1302800	1536800	1250300	0	0	0	0	0	0
SVEYAMKKCPNGMFSEIKYDGER	LIG3; LIG3	P49916; K7ERZ5	DNLI3	HUM	Oxidation (M);3 M	0	0	0	0	0	0	0	0	0
SVFALTNGIYPHK	RPL6	Q02878	RL6	HUMAN	Deamidation (N)	38972000	27006000	30511000	287520	266740	179120	0	0	9118
SVFALTNGIYPHKLVF	RPL6	Q02878	RL6	HUMAN	Deamidation (N)	17907000	10509000	13020000	0	0	0	0	0	0
SVFALTNGIYPHKLVF	RPL6	Q02878	RL6	HUMAN	Methyl (KR);Deam	2537400	2703800	1165700	0	0	0	0	0	0
SVFDIPIFTEEFLNHSK	HMG20A	Q9NP66	HM20A	HUM	Unmodified	245260	197810	197570	0	0	0	0	0	0
SVFEEEVR	LMNB2	Q03252	LMNB2	HUM	Unmodified	4829100	3689100	4795100	522250	547240	446550	0	0	0
SVFEEEVRETR	LMNB2	Q03252	LMNB2	HUM	Unmodified	9057000	9208500	9089800	395790	1276500	1374200	37811	40562	0
SVFFGPDFITVTK	NFU1	Q9UMS0	NFU1	HUM	Unmodified	836310	727380	673230	0	0	0	0	0	0
SVFGKLFGAGGGK	CHMP4B	Q9H444	CHM4B	HUM	Acetyl (Protein N-t	903680	0	816010	128030	0	111730	59709	0	55724
SVFGKLFGAGGGK	CHMP4B	Q9H444	CHM4B	HUM	Acetyl (Protein N-t	453340	294100	714210	0	0	0	0	0	0
SVFLRTDQPEGR	CAPN5; CAPN5; CA	O15484; E7EV01;	CAN5	HUM	Unmodified	0	0	0	104390	151890	116610	0	0	0
SVGATNMNEHSSR	KIF3A; KIF3B; KIF3	Q9Y496; O15066;	KIF3A	HUM	Oxidation (M);2 De	137500	157510	0	0	0	0	0	0	0
SVGDGETVEFDVVEGK	YBX1; YBX2; YBX3	P67809; Q9Y2T7;	YBOX1	HUM	Unmodified	0	0	1653200	85677	60980	34392	0	32722	31795
SVGDGETVEFDVVEGKGAEAANVTGPGGVPVQGSK	YBX1; YBX1	P67809; H0Y449	YBOX1	HUM	Unmodified	5510900	3998500	2561800	0	0	0	0	0	0
SVGELPSTVESLQK	CKAP4	Q07065	CKAP4	HUM	Unmodified	3261200	2600700	2559500	226320	192820	215210	0	0	0
SVGFIGAGQLAYALAR	PYCR2; PYCR2; N/A	Q96C36; A0A087	P5CR2	HUM.	Acetyl (Protein N-t	62522	19398	37888	0	0	0	0	0	0
SVGGSGGGSFGDNLVTR	LMNA; LMNA	P02545; A0A6Q8	LMNA	HUM.	Unmodified	14393000	19032000	16483000	10153000	10116000	10136000	3171000	3005000	586410
SVGGSGGGSFGDNLVTR	LMNA; LMNA	P02545; A0A6Q8	LMNA	HUM.	Deamidation (N)	3250600	5604900	3030300	1211500	910860	885340	426300	319790	382520
SVGLANQELAEVVSR	ARG2	P78540	ARGI2	HUM.	Unmodified	962550	0	952840	285720	258670	215190	36385	51410	32775
SVGMIAGGTGITPMLQVIR	CYB5R3	P00387	NB5R3	HUM	2 Oxidation (M)	8522300	5461900	9821500	47192	24067	0	0	0	0
SVGNTIDPVILFQK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B	HUM	Unmodified	4049200	3442200	3476500	0	120650	49049	0	0	0
SVGNTIDPVILFQK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B	HUM	Deamidation (N)	5485500	4541200	3544500	34301	107010	24423	0	0	0
SVGQGYSVQQSMR	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP	HUM	Oxidation (M)	2146400	0	2006400	0	227970	148330	0	0	0
SVGYKPDFVGFEIPDK	HPRT1	P00492	HPRT	HUM	Unmodified	1286700	838240	898910	0	0	0	0	0	0
SVHELEK	MYH9	P35579	MYH9	HUM	Unmodified	1870500	1109700	2156100	0	0	79550	0	0	0
SVHFPGQAVGTR	GFPT1; GFPT1; GFP	Q06210; A0A6B9	GFPT1	HUM.	Unmodified	0	694260	765210	0	0	0	0	0	0
SVHSLISDFKDPPTAK	STXBP1; STXBP1; S	P61764; A0A0D9	STXB1	HUM	Unmodified	2391200	2232300	1229800	0	30320	0	0	0	0
SVIDPVPAPVGDSHVDGAAK	PAK2	Q13177	PAK2	HUM	Unmodified	4939100	6847600	3583700	276580	585700	511570	33507	27437	31333
SVIDTSTIVR	STRN	O43815	STRN	HUM	Unmodified	2311800	2638400	2148100	195590	243430	250230	29023	0	0
SVIDYQTHFR	TMED7; TMED7-TIC	O9Y3B3; A0A0A	TMED7	HUM	Unmodified	3962200	3296000	4801300	65448	74648	79529	0	0	0
SVIEPLPVTPTR	PAK1; PAK1; PAK1;	Q13153; E9PM17	PAK1	HUM	Unmodified	4854200	3383100	2991900	68098	72548	71039	0	23083	31533
SVIEQGGIQTVDQLIK	PDCD6IP	Q8WUM4	PDC6I	HUM.	Unmodified	2913100	2293300	702080	0	9384.4	0	0	0	0
SVILEAFSSPSEEVK	CAND1; CAND1	Q86VP6; A0A0C4	CAND1	HUM	Unmodified	1205700	1300400	1597600	30416	0	25618	0	0	0
SVINLLR	RPEL1; RPE; RPE	Q2QD12; Q96AT9	RPEL1	HUM.	Unmodified	8938500	8438400	9280000	142850	235620	235470	0	18943	22748
SVINLLR	RPEL1; RPE; RPE	Q2QD12; Q96AT9	RPEL1	HUM.	Deamidation (N)	261970	207140	257650	0	0	0	0	0	0
SVKWRGHLIAWANNMSK	VPS41	H7BXH3	H7BXH3	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0	0
SVLADQGK	BCLAF1; BCLAF1; I	Q9NYF8; E9PK91	BCLF1	HUM	Unmodified	7941700	7302000	7438900	710740	460960	692200	0	0	0
SVLAETEGILQK	KTN1; KTN1; KTN1	Q86UP2; G3V5P0	KTN1	HUM	Unmodified	1429900	1464500	1743900	0	16239	0	0	0	0
SVLDAAQIVGLNCLR	HSPH1	Q92598	HS105	HUM	Unmodified	687260	685080	685470	0	0	0	0	0	0
SVLEDMEDSVLAVMPPDIAAEAQALRR	HUWE1	Q7Z6Z7	HUWE1	HUM	2 Oxidation (M)	0	0	1166500	0	0	0	0	0	0
SVLEGSGLPR	TDRD3	Q9H7E2	TDRD3	HUM	Unmodified	0	1652700	1861800	0	0	42835	0	0	0
SVLELIPELNEKEEAYNSLMK	LRPPRC; LRPPRC	P42704; H7C3W8	LPPRC	HUM	Oxidation (M)	2535200	0	0	0	0	0	0	0	0
SVLELIPELNEKEEAYNSLMK	LRPPRC; LRPPRC	P42704; H7C3W8	LPPRC	HUM	Oxidation (M);Deai	2015300	3497700	0	0	0	0	0	0	0
SVLELIPELNEKEEAYNSLMK	LRPPRC; LRPPRC	P42704; H7C3W8	LPPRC	HUM	Oxidation (M);2 De	1675600	2320500	2125100	0	0	0	0	0	0
SVLEQTK	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74	HUM	Unmodified	1657100	2046100	1796100	42976	53374	66166	0	0	0
SVLGEADQK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	2410500	2731900	2502500	34771	0	0	0	0	0
SVLGEADQKGSLVAPDRLR	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	3550300	3502300	3268200	0	0	0	0	0	0
SVLGGQDQLR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18	HUM	Unmodified	3901900	3641300	3857500	0	160270	164880	0	0	0
SVLGQLGITK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT	HUM	Unmodified	11300000	10089000	10337000	0	0	0	0	0	0
SVLHEVMEQQTLSIAK	MCM4; MCM4; MCI	P33991; A0A3B3	MCM4	HUM.	Oxidation (M)	17682000	17061000	18989000	38886	26078	0	0	10142	0
SVLISLKQAPLVH	CLTA; CLTA	P09496; C9J8P9	CLCA	HUM	Unmodified	0	0	0	1048900	1170500	745320	795850	397140	616020
SVLLLAYKPMEGNFEEIAR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Oxidation (M)	2695900	1844200	1549500	0	0	0	0	0	0
SVLLLAYKPMEGNFEEIAR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1	HUM	Oxidation (M);Deai	1577200	1279700	1963300	0	0	0	0	0	0
SVLLPTHR	ALKBH5; ALKBH5	Q6P6C2; K7ER58	ALKB5	HUM	Unmodified	598440	447670	1490200	0	0	0	0	0	0
SVLLQGEAGR	INTS1	Q8N201	INT1	HUMA	Unmodified	372460	1220200	0	0	0	0	0	0	0
SVLQAAAAAAAAASMQLPPPR	TOX4; TOX4	O94842; A0A669	TOX4	HUMA	Oxidation (M)	536500	549530	630930	0	0	0	0	0	0
SVLQPSQQK	NCKAP1	Q9Y2A7	NCKP1	HUM	Unmodified	1106000	0	0	0	0	0	0	0	0
SVLRPAVLQAPQPK	RANBP3; RANBP3;	Q9H6Z4; B7Z7F3	RANB3	HUM	Unmodified	287880	423980	417870	41222	49791	76103	0	17607	0
SVLWWLPVEK	SUMF2; SUMF2; SU	Q8NBJ7; C9J660;	SUMF2	HUM	Unmodified	630410	478490	558860	0	0	0	0	0	0
SVMEELKR	MAGOH; MAGOHB;	P61326; Q96A72;	MGN	HUMA	Oxidation (M)	3091500	3037900	3686500	273560	258800	252910	0	0	0
SVMIDEDMTAR	ILK; ILK	Q13418; A0A0A0	ILK	HUMAN	2 Oxidation (M)	488520	1290900	1181900	265840	284040	283900	0	0	0
SVMTEEYK	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1	HUM.	Oxidation (M)	2088200	1119100	2085200	96300	49575	46193	0	0	0
SVMTEEYKVPDGMVGFIGR	FUBP1; FUBP1; FUB	Q96AE4; C9JSZ1;	FUBP1	HUM.	2 Oxidation (M)	86384000	64868000	65100000	249980	212600	155770	128120	0	73425
SVNDQPSGNLPFLKPDDIQYFDK	SF3B1	O75533	SF3B1	HUM	Deamidation (N)	4215400	3554000	3180200	0	0	0	0	0	0
SVNELIYKR	RPL7; RPL7	P18124; A8MUD5	RL7	HUMAN	Unmodified	0	370050	461070	0	0	0	0	0	0
SVNFSLTPNEIK	MAP1B	P46821	MAP1B	HUM	Unmodified	0	0	0	162570	159490	193960	0	0	0
SVNFSLTPNEIK	MAP1B	P46821	MAP1B	HUM	Deamidation (N)	644110	502520	497210	38711	56266	39779	0	0	0
SVNGLAFYDWDNTELIR	COPB2; COPB2; COI	P35606; H0YAC7	COPB2	HUM	Deamidation (N)	99345	126750	121410	0	0	0	0	0	0
SVPAGLTLQSVSPQSLQGK	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5	HUM	Unmodified	2187600	6605000	6517800	210090	99603	112170	37148	14805	0
SVPDEIILLR	LRRC40	Q9H9A6	LRC40	HUM	Unmodified	1948600	1689600	1619700	44565	42988	40069	0	0	0
SVPEDDGHALLAERIEK	AKAP12	Q02952	AKA12	HUM	Unmodified	0	0	0	83521	58169	74432	23028	0	0
SVPELKDALKR	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	929410	1183500	1729800	0	0	0	0	0	0
SVPEVDPAATMPR	TOM1L2	Q6ZVM7	TM1L2	HUM	Oxidation (M)	0	0	0	657830	659890	777710	56810	0	56388
SVPHYAAIEPDGNGLMIVSYK	NUDCD1; NUDCD1	Q96RS6; A0A7I2	NUDC1	HUM	Oxidation (M);Deai	1299100	1507400	1658800	0	0	0	0	0	0
SVPLAATSMLITQGLISK	OCIAD1; OCIAD1; O	Q9NX40; D6RDI5	OCAD1	HUM	Oxidation (M)	4268500	4295800	2968700	0	0	0	0	0	0
SVPLATAPMAEQR	COPG1	Q9Y678	COPG1	HUM	Oxidation (M)	2099200	1966300	1786600	308090	328130	224140	0	44900	0
SVPNQPSTNEILQAVLK	ECPAS; ECPAS; ECI	Q5VYK3; J3KN1(	ECM29	HUM	Unmodified	804720	671340	797810	0	0	0	0	0	0
SVPTSTVFYPSDGVATEK	TKT; TKT	P29401; A0A0B4	TKT	HUMAN	Unmodified	12303000	11915000	9471600	1838800	1657800	1658000	193640	131000	98832
SVPTSTVFYPSDGVATEKAVELAANTK	TKT; TKT	P29401; A0A0B4	TKT	HUMAN	Unmodified	1934200	1448400	1745100	34137	0	0	0	0	0
SVPTWLK	RPS13; RPS13; RPS	P62277; J3KMX5	RS13	HUMA	Unmodified	1800800	2505900	0	0	0	23990	0	0	0
SVPVSAGGEGETSPYSLEASPLGQLMNMLSHPVIR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUM	2 Oxidation (M)	2989500	2321600	1462000	0	0	0	0	0	0
SVQAGNPGGPGPGGR	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Unmodified	1462700	1664600	1159700	0	0	0	0	0	0
SVQALIKDFQGTPTFTYK	STXBP2; STXBP2; S	Q15833; M0QZ54	STXB2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
SVQATTENK	ECH1	Q13011	ECH1	HUMA	Unmodified	1208900	509320	1349100	61372	0	0	0	0	0
SVQATTENKELK	ECH1	Q13011	ECH1	HUMA	Methyl (KR)	2160400	903650	1297100	0	0	0	0	0	0
SVQATTENKELK	ECH1	Q13011	ECH1	HUMA	Deamidation (N)	4136700	4619200	1437700	209700	294900	211120	0	0	0
SVQATTENKELKTVTFSKL	ECH1	Q13011	ECH1	HUMA	Unmodified	0	1117100	636120	859180	79518	584120	0	251830	0
SVQETVLPIK	MECP2	P51608	MECP2	HUM	Unmodified	1220800	712710	897770	279910	199410	262180	0	0	0
SVQETVLPIKK	MECP2	P51608	MECP2	HUM	Unmodified	994230	1087000	1009900	250490	290140	268240	35563	17152	22713
SVQLTEK	C3	P01024	CO3	HUMA	Unmodified	1062900	1216300	1589000	391210	288990	275480	0	13445	0
SVQSQGFK	ARL3	P36405	ARL3	HUMA	Unmodified	393800	1080000	257460	131200	278610	238790	0	0	5423
SVQTFADK	CAPZB	B1AK88	B1AK88	HUM	Unmodified	10348000	9770300	9960100	124950	545370	622470	0	0	0
SVQVSTLK	ARPC1A; ARPC1A;	Q92747; E9PF58;	ARC1A	HUM	Unmodified	973260	0	0	0	0	0	0	0	0
SVQYDDVPEYKDR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM.	Unmodified	2626300	1965200	2530100	194100	203330	156360	0	0	0
SVSDNDIR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Deamidation (N)	2829000	3618900	1387900	47949	0	0	0	0	0

SVSDNDIRKYEMFAQTLQQSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M);Deai	22414000	20405000	17116000	0	0	0	0	0	0
SVSDNDIRKYEMFAQTLQQSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Oxidation (M)	5753200	3955600	5800000	29348	0	0	22930	0	0
SVSDQFYR	EIF5; EIF5; EIF5; EIF	P55010; H0YK29;	IF5_HUMAN	Unmodified	2180300	2008200	2231100	0	0	0	0	0	0
SVSDYDGKLSNFK	P4HB; P4HB; P4HB;	P07237; A0A7P0T	PDIA1_HUM/	Unmodified	2295800	1545800	2332200	0	0	0	0	0	0
SVSIGYLLVK	COL4A2	P08572	CO4A2_HUM	Unmodified	2949500	3240000	3062500	0	737190	0	504430	391200	487890
SVSIPAPAYYAHLVAFR	AGO3; AGO2	Q9H9G7; Q9UKV	AGO3_HUM/	Unmodified	3870900	2056200	4525100	0	0	0	0	0	0
SVSLTGAPESVQK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	19505000	17795000	15582000	539280	519820	619690	0	0	0
SVSLTGAPESVQKAK	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	0	1990400	0	0	94860	0	0	0	0
SVSMLSLNTPNSNRKR	ECT2; ECT2	Q9H8V3; H7C3G	ECT2_HUMA	3 Methyl (KR);2 D	0	0	0	0	0	0	91243	0	0
SVSSSSYR	VIM; VIM; VIM; VIN	P08670; B0YJC4;	VIME_HUMA	Unmodified	2156800	0	0	14470000	13170000	22629000	0	731300	0
SVSTPSEAGSQDSGDGAVGSR	DYNC1I2; DYNC1I2;	Q13409; E7ERR6;	DC1I2_HUM/	Unmodified	4324600	2837300	4036000	529350	526300	312650	0	0	0
SVSTSTTFVQGR	DNAJB2; DNAJB2; I	P25686; C9JRD2;	DNJB2_HUM	Unmodified	0	0	0	127180	150020	106360	0	0	0
SVSTTNIAGHFNDESPLGLRR	ARHGEF2; ARHGEF	Q92974; V9GYF5	ARHG2_HUM	Deamidation (N)	1049600	0	707740	0	0	0	0	0	0
SVSVVTGSEQK	CEP131; CEP131	Q9UPN4; I3L2J8	CP131_HUM/	Unmodified	457290	574140	474760	0	0	0	0	0	0
SVTDSIRDEYAFLQK	DNM1L; DNM1L	O00429; F8VZ52	DNM1L_HUM	Unmodified	5918700	4739500	3787200	0	0	0	0	0	0
SVTDYAQQNPAAQIPAR	MYO6; MYO6	A0A0A0MRM8; /	A0A0A0MRM	Unmodified	1569000	1446200	1299700	390910	391780	406010	91705	76843	0
SVTEGASAR	CDC73; CDC73	Q6P1J9; A0A3B3I	CDC73_HUM	Unmodified	1632400	2315000	1860400	0	270950	252810	0	0	0
SVTEQGAELSNEER	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z_HUM/	Unmodified	45129000	42198000	41184000	1024400	1409300	1116700	0	0	0
SVTEQGAELSNEER	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z_HUM/	Deamidation (N)	13420000	13044000	14542000	255690	237410	196960	0	0	0
SVTEQGAELSNEERNLLSVAYK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z_HUM/	Deamidation (N)	49280000	18598000	29964000	0	0	0	0	0	0
SVTEQGAELSNEERNLLSVAYK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z_HUM/	Unmodified	28684000	19663000	26015000	0	0	0	0	0	0
SVTEQGAELSNEERNLLSVAYK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z_HUM/	2 Deamidation (N)	1454100	3537100	4367500	0	0	0	0	0	0
SVTEQGAELSNEERNLLSVAYKNVVGAR	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z_HUM/	Unmodified	11574000	12818000	14147000	0	0	0	0	0	0
SVTEQGAELSNEERNLLSVAYKNVVGAR	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z_HUM/	Deamidation (N)	1399600	547930	2594300	0	0	0	0	0	0
SVTKLEK	TPM1; TPM1; TPM1	P09493; H0YKJ4;	TPM1_HUMA	Unmodified	0	1662600	1353800	0	975480	0	2154000	0	0
SVTPASTLTK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUM/	Unmodified	0	0	0	238310	255870	226310	0	0	18080
SVTTEPSSLK	ZC3H14; ZC3H14; ZI	Q6PJT7; G3V3Y4	ZC3HE_HUM	Unmodified	650460	384250	431910	0	0	0	44154	21198	56048
SVVANFIVK	PDS5A; PDS5A	Q29RF7; H0Y9L6	PDS5A_HUM	Unmodified	411370	274770	210260	0	0	0	0	0	0
SVVARFDAGELITQR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	467000	538530	440340	0	0	0	0	0	0
SVVCSGFEKEEEENLTR	CMC4	P56277	CMC4_HUM/	Unmodified	1564500	1387600	1267900	108250	431640	157970	0	0	0
SVVCSGFEKEEEENLTRK	CMC4	P56277	CMC4_HUM/	Unmodified	1908300	0	0	132440	125060	146830	0	0	0
SVVGNLHR	NOP2	P46087	NOP2_HUMA	Unmodified	470200	521920	617560	97715	0	52789	0	0	0
SVVGTPAYLAPEVLR	PRKD3; PRKD1; PRI	O94806; Q15139;	KPCD3_HUM	Unmodified	525640	0	1349400	67232	50157	47543	0	0	0
SVVLMSHLGRPDGVPMPDK	PGK1	P00558	PGK1_HUMA	2 Oxidation (M)	369440	594510	329520	0	0	0	0	0	0
SVVLMSHLGRPDGVPMPDKYSLEPVAVELK	PGK1	P00558	PGK1_HUMA	2 Oxidation (M)	14399000	10363000	16306000	0	0	0	0	0	0
SVVSDLEADDVK	TOP2A	P11388	TOP2A_HUM	Unmodified	0	0	4038400	0	0	0	0	0	0
SVVSFDKVKEPR	SAFB	O15424	SAFB1_HUM	Unmodified	2266600	1372900	2123500	179590	203230	178620	0	49050	36522
SVVTGGVQSVMGSR	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3_HUM/	Oxidation (M)	2337900	2530800	2105400	126850	177090	132800	0	0	27007
SVVTSIFGVK	IARS1; IARS1	P41252; A0A0A0I	SYIC_HUMA	Unmodified	909560	1018500	509460	0	0	0	0	0	0
SVYENGFNTPRGINPHR	PXDN	Q92626	PXDN_HUM/	2 Methyl (KR);Dea	643480	0	381770	0	0	0	0	0	0
SVYGGEFIQQLK	RPRD1B	Q9NQG5	RPR1B_HUM	Unmodified	6832000	5046700	6465300	67446	72588	77204	0	0	0
SVYHLEDIVR	TRIP12; TRIP12; TRI	Q14669; A0A6Q8	TRIPC_HUM	Unmodified	1507300	1497300	1452400	0	0	0	46958	67785	66916
SVYKTHIDVIHYR	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4_HUM	Unmodified	546340	884400	728480	0	0	0	0	0	0
SWCPDCVQAEPVVR	TXNDC17; TXNDC1	Q9BRA2; I3L3M7	TXD17_HUM	Unmodified	928810	925580	1430900	26333	0	27194	0	0	0
SWDAINR	PRCP; PRCP; PRCP;	P42785; B7Z7Q6;	PCP_HUMAN	Unmodified	932770	796890	369020	0	0	0	0	0	0
SWDIFFR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1_HUM/	Unmodified	952610	711560	496500	0	0	0	0	0	0
SWFVDLAGKAEDLLNR	GOLGA5	Q8TBA6	GOGA5_HUM	Acetyl (Protein N-t	0	0	2064900	0	0	0	0	0	0
SWGEGPRGPGLGRR	ZFYVE19; ZFYVE19	Q96K21; H3BVF5	ANCHR_HUN	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
SWHDVQVSSAYVK	TPD52L2; TPD52L2	O43399; A0A087	TPD54_HUM	Unmodified	1114200	1144200	1185200	0	0	0	0	0	0
SWIEEQAMGSFLSVAK	LAP3; LAP3	P28838; H0Y9Q1	AMPL_HUM/	Oxidation (M)	2358300	1833800	1101100	0	0	0	0	0	0
SWNETLTSR	ATP5PD; ATP5PD	O75947; F5H608	ATP5H_HUM	Unmodified	2243700	2232500	1836300	0	0	0	0	0	0
SWPVDFHWEEPSSR	ABHD16A; ABHD16	O95870; A0A0G2	ABHGA_HUM	Unmodified	0	296150	345750	0	0	0	0	0	0
SWQDELAQQAEEGSAR	MTDH	Q86UE4	LYRIC_HUM	Unmodified	1238600	2044800	1131700	37401	20612	33171	0	0	0
SWRDEKKENYHK	TLK1	Q9UKI8	TLK1_HUMA	4 Methyl (KR)	0	0	0	0	0	0	0	0	0
SWSLATFR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1583400	1521300	1718600	32442	31881	41715	0	0	0
SWSVPVIR	DNMT3B; DNMT3A;	Q9UBC3; Q9Y6K	DNM3B_HUM	Unmodified	1796300	435250	414240	0	0	0	0	0	0
SWTAADTAAQITQR	HLA-B; HLA-C; HLA	P01889; P10321;	HLAB_HUM/	Unmodified	1115000	1375600	1043100	88770	95284	0	0	0	0
SYAEELAK	HSD17B12; HSD17B	Q53GQ0; A0A1B	DHB12_HUM	Unmodified	0	0	0	136390	201100	151830	0	0	0
SYAVVGVPPDIMGIGPAYAIPVALQK	ACAA1; ACAA1; AC	P09110; C9JDE9;	THIK_HUMA	Oxidation (M)	379910	163050	291210	0	0	0	0	0	0
SYDDAESLKTLR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B_HUM	Unmodified	818940	690880	709880	0	0	0	0	0	0
SYDTDQGR	FN3KRP; FN3KRP; F	Q9HA64; I3L139;	KT3K_HUMA	Unmodified	697350	789940	0	28945	31575	39889	0	0	0
SYDTDQGRVFVK	FN3KRP; FN3KRP; F	Q9HA64; I3L139;	KT3K_HUMA	Unmodified	1731400	899140	173300	0	90690	38891	9944.7	17149	0
SYDVPPPPMEPDHPFYSNISK	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M)	48396000	45170000	58411000	161530	375320	400650	44946	0	0
SYDVPPPPMEPDHPFYSNISK	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M);Deai	1459000	1125300	1294200	0	0	0	0	0	0
SYDVPPPPMEPDHPFYSNISKDR	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M)	3679200	2641900	0	0	0	0	0	0	0
SYDVPPPPMEPDHPFYSNISKDRR	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M)	13205000	18427000	16953000	418050	667030	395810	0	0	0
SYDVPPPPMEPDHPFYSNISKDRR	PGAM1; PGAM4	P18669; Q8N0Y7	PGAM1_HUM	Oxidation (M);Deai	860140	652310	960070	0	0	0	0	0	0
SYDYDLIIIGGGSGGLAAAK	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1_HUM	Unmodified	1762700	0	1911900	0	0	0	0	0	0
SYEALVQHVIEDHER	ADNP; ADNP; ADNI	Q9H2P0; A0A669	ADNP_HUM/	Unmodified	1816300	1899300	2475800	0	0	0	0	0	0
SYEAQDPEIASLSGK	C12orf57; C12orf57;	Q99622; F5GXW5	C10_HUMAN	Unmodified	1468900	1195400	869790	0	0	0	0	0	0
SYEAYVLNIVR	ATP1B1; ATP1B1	P05026; V9GYR2	AT1B1_HUM	Unmodified	3937700	3356500	4564300	0	0	0	0	0	0
SYEDATKITVR	RPA1; RPA1	P27694; I3L4R8	RFA1_HUMA	Unmodified	1368600	1505200	1808500	183490	0	113910	0	0	0
SYEDMIGEEVPSDQYYWAPLAQHER	CTNND1; CTNND1;	O60716; A0A669	CTND1_HUM	Oxidation (M)	1861000	822960	1793900	0	0	0	0	0	0
SYELPDGQVITIGNER	POTEE; POTEF; AC1	Q6S8J3; A5A3E0;	POTEE_HUM	Deamidation (N)	142920000	135210000	133000000	1404400	1277900	944160	330930	364210	264980
SYELPDGQVITIGNER	POTEE; POTEF; AC1	Q6S8J3; A5A3E0;	POTEE_HUM	Unmodified	362250000	307700000	313900000	8736000	6082500	5289200	5496200	4232800	3966500
SYELPDGQVITIGNERFR	POTEE; POTEF; AC1	Q6S8J3; A5A3E0;	POTEE_HUM	Deamidation (N)	337960000	286300000	306720000	538480	240790	90052	1424600	382630	658760
SYELPDGQVITIGNERFR	POTEE; POTEF; AC1	Q6S8J3; A5A3E0;	POTEE_HUM	Unmodified	2869900	2179300	3150000	0	172640	0	798150	154160	386980
SYELQESNVR	SEPTIN11; SEPTIN1	Q9NVA2; D6RER	SEP11_HUM	Unmodified	5803900	5759700	5066700	0	0	0	0	0	0
SYENELDPLKNR	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Methyl (KR)	550700	504940	576540	0	0	0	0	0	0
SYEPLEDPGVK	TALDO1; TALDO1	P37837; F2Z393	TALDO_HUM	Unmodified	4932100	4418100	4007000	0	0	500170	0	0	0
SYEQVPPQGFTSR	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1_HUMAN	Unmodified	0	0	0	159550	300430	236970	0	0	0
SYESLFIR	CRTAP; CRTAP	O75718; C9JP16	CRTAP_HUM	Unmodified	3307900	3139300	1972600	126050	128200	122630	0	0	0
SYEVTVENFLR	PIGK; PIGK	Q92643; A6NEM5	GPI8_HUMA	Unmodified	716390	783220	812260	11005	0	0	0	0	0
SYFLIVR	DNM1L	O00429	DNM1L_HUM	Unmodified	807310	1009200	790740	0	0	0	0	0	0
SYFSSFTDDIISQPMLK	TOMM70	O94826	TOM70_HUM	Oxidation (M)	2941100	3620500	2416300	0	0	0	0	0	0
SYFSSFTDDIISQPMLKGEK	TOMM70	O94826	TOM70_HUM	Oxidation (M)	0	1536400	1783300	0	0	0	0	0	0
SYGATATSPGER	SLC35B2	Q8TB61	S35B2_HUM	Unmodified	818000	681020	786840	81527	0	0	0	0	0
SYGFNAAR	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6_HUM/	Unmodified	4817200	3622700	5368900	0	0	0	0	0	0
SYGFNAAR	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6_HUM/	Deamidation (N)	3967500	2302300	2013100	0	0	0	0	0	0
SYGIPFIETSAK	NRAS; KRAS	P01111; P01116	RASN_HUM/	Unmodified	9699400	8244700	9927100	384400	441620	373900	50951	89224	60507
SYGPAPGAGHVQEESNLSLQALESR	AIMP2	Q13155	AIMP2_HUM	Unmodified	3134300	2605800	2922500	0	0	0	0	0	0
SYGPLDMYRNPGPSGPQLR	STX12; STX12	Q86Y82; B1AJQ6	STX12_HUM/	Acetyl (Protein N-t	0	713570	1373500	56013	40027	58772	0	0	14757
SYGRPPPDVEGMTSLK	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2_HUM/	Acetyl (Protein N-t	9382000	10026000	8914100	178300	258960	441630	0	0	45943
SYGRPPPDVEGMTSLKVDNLTYR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2_HUM/	Acetyl (Protein N-t	39810000	38731000	48307000	181340	135280	0	151890	47465	57639
SYGRPPPDVEGMTSLKVDNLTYR	SRSF2; SRSF2; SRSF	Q01130; J3KP15;	SRSF2_HUM/	Acetyl (Protein N-t	4125600	3176100	2985300	0	0	0	0	0	0
SYHEEFNPPKEPMKDDITGEPLIR	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2_HUMA	Oxidation (M)	18880000	26771000	21371000	634570	424490	0	0	128590	69599
SYHEEFNPPKEPMKDDITGEPLIRR	AK2; AK2; AK2; AK	P54819; A0A5K1	KAD2_HUMA	Oxidation (M)	0	1769500	0	0	0	0	0	0	0
SYIPGQPVTAVVQRVEIHK	TAX1BP3; TAX1BP3	O14907; A0A087	TX1B3_HUM	Acetyl (Protein N-t	801760	0	883300	0	0	0	26932	0	0
SYIQSLPQTPR	MAPK13	O15264	MK13_HUMA	Unmodified	2208300	2368700	1973200	69635	36513	0	0	0	0
SYLEFSEDSVQVPR	FXR2	P51116	FXR2_HUMA	Unmodified	1261800	1811700	1959700	0	24798	43773	0	0	0
SYLENPAFMLLDLK	DBT; DBT; DBT	P11182; A0A7P0T	ODB2_HUMA	Oxidation (M)	2048100	2816400	2580700	0	0	0	0	0	0
SYLENPAFMLLDLK	DBT; DBT; DBT	P11182; A0A7P0T	ODB2_HUMA	Oxidation (M);Metl	807390	892190	893370	0	0	0	0	0	0
SYLHIPQDVGVNLR	CDC40; CDC40	O60508; Q5SRN1	PRP17_HUM	Unmodified	2941000	1691500	1342800	0	0	0	0	0	0
SYLTPVRDEESESQR	PPP1R12A; PPP1R12	O14974; F8VZN8;	MYPT1_HUM	Unmodified	5375300	5022400	2751000	163510	173180	184410	0	0	64783
SYLYFTQFK	MYDGF; MYDGF; M	Q969H8; M0QYN	MYDGF_HUM	Unmodified	3239600	2139200	2491800	60516	52938	51696	0	0	0
SYLYQLQQEAPHPR	CHN1; CHN1; CHN1	P15882; A0A494(	CHIN_HUMA	Unmodified	925910	0	1071500	0	27852	0	0	0	0
SYMAPER	MAP2K2; MAP2K2;	P36507; G5E9C7;	MP2K2_HUM	Oxidation (M)	0	3108900	2432900	257340	185450	0	0	0	0
SYNDELQFLEK	RTCB	Q9Y3I0	RTCB_HUMA	Unmodified	2169200	2055600	2372900	93570	59741	85048	0	0	0
SYNDELQFLEK	RTCB	Q9Y3I0	RTCB_HUMA	Deamidation (N)	1073000	1515300	1407600	0	0	35527	0	0	0
SYNRFQIATVTEK	PSMB4	P28070	PSB4_HUMA	Unmodified	1962900	2430100	1926600	294300	0	13470	0	0	0
SYPGHVQPATAR	HOOK3; HOOK3	Q86VS8; H0YDK4	HOOK3_HUM	Unmodified	875170	1010000	829590	156390	138880	169590	94093	99443	83378
SYQDPSNAQFLESIR	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Unmodified	13128000	13257000	12629000	365850	195510	178720	0	12343	0
SYQDPSNAQFLESIR	NSFL1C; NSFL1C	Q9UNZ2; F2Z2K0	NSF1C_HUM	Deamidation (N)	3091800	2264700	4039400	30811	0	35732	0	0	0
SYQFGIIGNDRVSGAGFSPSSK	TNKS1BP1	Q9C0C2	TB182_HUM	Deamidation (N)	482680	0	395550	0	0	0	0	0	0
SYQFWDTQPVPK	NMT1; NMT1; NMT	P30419; A0A7I2V	NMT1_HUM	Unmodified	1225900	0	978260	60476	74792	49267	34625	0	0
SYQLRPGTMIEWGNYWAR	NIPSNAP2; NIPSNAI	O75323; C9K068	NIPS2_HUM	Oxidation (M);Deai	433140	389640	0	0	0	0	0	0	0
SYRHGDLPDIQIK	PRKDC	P78527	PRKDC_HUM	Unmodified	915020	1189900	0	120870	67196	105370	0	0	0
SYRSVGSGGGSFGDNLVTR	LMNA; LMNA	P02545; A0A6Q8I	LMNA_HUM	Unmodified	0	0	0	262050	252340	273500	149340	220070	229730
SYSAVDVLQTLEHVDLDPQEPPR	MCAT	Q8IVS2	FABD_HUM	Unmodified	265020	230160	548880	0	0	0	0	0	0
SYSCQVTHEGSTVEK	IGLC6; IGLL5; IGLC	P0CF74; B9A064;	IGLC6_HUM	Unmodified	4608200	4845400	4851900	560180	736670	790010	120800	0	95598
SYSCQVTHEGSTVEKTVAPTECS	IGLL5; IGLC3; IGLC	B9A064; P0DOY3	IGLL5_HUM	Unmodified	1120000	1298300	1248000	570910	541890	589810	375740	0	0
SYSDPPLK	HNRNPF	P52597	HNRPF_HUM	Unmodified	6171600	5671300	8203600	127060	109920	106480	0	0	0
SYSEDDIHR	YTHDF1; YTHDF3; '	Q9BYJ9; Q7Z739;	YTHD1_HUM	Unmodified	1380100	1270400	1033300	0	0	0	0	0	0
SYSKLLCGLLAER	MIF	P14174	MIF_HUMAN	Unmodified	1343300	859960	1376400	0	0	0	0	0	0
SYSLLFR	SUZ12; SUZ12	Q15022; J3QQW9	SUZ12_HUM	Unmodified	1176100	1642800	2046100	0	0	26923	0	0	0
SYSMIVNNLLKPISVEGSSK	CACYBP	Q9HB71	CYBP_HUM	Oxidation (M);Deai	598300	565000	486560	0	0	0	0	0	0
SYSPYDMLESIR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L_HUM	Oxidation (M)	913420	0	346380	36032	42864	38368	0	0	0
SYSSGGEDGYVR	EIF3I; EIF3I; EIF3I; E	Q13347; A0A7Z\	EIF3I_HUM/	Unmodified	487320	1269500	1063200	55394	0	52618	0	0	0
SYSVGASGSSSR	CPSF7; CPSF7	Q8N684; F5H669	CPSF7_HUM	Unmodified	2064400	0	1490500	100010	175370	111160	0	0	0
SYTAADATLK	UBA6; UBA6	A0AVT1; H0Y8S8	UBA6_HUM/	Unmodified	2543500	1743100	2312100	0	0	44756	0	0	0
SYTGLAPGYTYQPFEFR	MSI1	O43347	MSI1H_HUM	Unmodified	0	1487500	0	0	0	0	0	0	0
SYTGLAPGYTYQPFEFRVER	MSI1	O43347	MSI1H_HUM	Unmodified	3276500	3170700	3742800	0	0	0	0	0	0

SYTIAVASLGK	GLA; GLA; GLA; GL	P06280; A0A6Q8I	AGAL_HUMA	Unmodified	1160400	0	915300	44558	47676	38770	0	0	0
SYTITGLQPGTDYK	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Unmodified	2086900	1379500	1550800	101540	96632	85792	0	0	0
SYTVAIAGYALAQMGR	C3; C3	P01024; M0R0Q9	CO3_HUMAN	Oxidation (M)	764590	402770	528780	0	0	0	0	0	0
SYTVGVMMMHR	SERPINH1; SERPINI	P50454; E9PK86;	SERPH_HUM	3 Oxidation (M)	3786700	4088000	4422000	995960	652060	686430	0	98055	0
SYVAWDR	PRKDC	P78527	PRKDC_HUM	Unmodified	2372000	3332600	2617500	0	0	77732	0	0	0
SYVDLLKLEDVLR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15_HUM	Unmodified	732180	397870	698970	0	0	0	0	0	0
SYVDMYLK	TOP2A	P11388	TOP2A_HUM	Oxidation (M)	510470	902680	682100	0	0	0	0	0	0
SYVDPSTDER	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	1145400	1292800	1209200	0	399580	424720	0	0	0
SYVESVAR	TNS1; TNS1; TNS1; '	Q9HBL0; A0A087	TENS1_HUM	Unmodified	0	1751800	1594000	584250	570190	363080	244730	208440	522160
SYVSEKDVTSAK	LRPPRC	P42704	LPPRC_HUM	Unmodified	9001200	8402300	7643900	114200	122870	111540	0	0	0
SYVSEKDVTSAK	LRPPRC	P42704	LPPRC_HUM	Methyl (KR)	721590	631810	668300	0	0	42225	0	0	0
SYVTTSTR	VIM; VIM; VIM; VIN	P08670; B0YJC4;	VIME_HUMA	Unmodified	483540	21893000	18939000	38059000	36533000	50161000	1232700	1417100	1147500
TAAALAPASLTSAR	SRRM2	Q9UQ35	SRRM2_HUM	Unmodified	27723000	21351000	22126000	2735700	2552800	2813900	364830	387720	360160
TAAANAAAGAAENAFR	SCAMP3	O14828	SCAM3_HUM	Unmodified	960790	899090	705490	0	0	0	0	0	0
TAAANAAAGAAENAFRAP	SCAMP3	O14828	SCAM3_HUM	Unmodified	0	518910	459980	106900	154700	127720	53144	0	32879
TAAANAAAGAAENAFRAP	SCAMP3	O14828	SCAM3_HUM	Deamidation (N)	0	0	0	52514	58200	91180	0	0	0
TAADELEAFLGGGAPGGR	RABL6	Q3YEC7	RABL6_HUM	Unmodified	768190	2093300	1593500	0	0	0	0	0	0
TAADELEAFLGGGAPGGRHPGGGDYEEL	RABL6	Q3YEC7	RABL6_HUM	Unmodified	2220600	1821500	1653500	0	0	0	0	0	0
TAAFALPVLER	DDX27; DDX27; DD	Q96GQ7; B7Z6D5	DDX27_HUM	Unmodified	2867000	3186100	3340900	15334	0	18237	0	0	0
TAAFIWPMLIHIMDQK	DDX42; DDX42	Q86XP3; A0A0A(	DDX42_HUM	2 Oxidation (M)	400930	685050	767950	0	0	0	0	0	0
TAAGLMHTFNAHAATDITGFGILGHAQNLAK	SEPHS1	P49903	SPS1_HUMA	Oxidation (M);Deai	0	1787300	2500100	0	0	0	0	0	0
TAAIAEVAK	TDRD3	Q9H7E2	TDRD3_HUM	Unmodified	462580	2488900	2539800	32967	43504	0	0	0	0
TAAKGEAAAERPGEAAVASSPSK	MARCKS	P29966	MARCS_HUM	Unmodified	2380400	1858700	2533800	0	0	0	0	0	0
TAAPPWPGGVSVR	RABL6	Q3YEC7	RABL6_HUM	Unmodified	1495800	1549200	0	0	156470	0	67291	66177	0
TAAPTTASAAPQGPLR	EP400	Q96L91	EP400_HUM	Unmodified	541840	554200	573140	25837	0	38357	0	0	0
TAAQCLEHYEFLLDK	CDC5L	Q99459	CDC5L_HUM	Unmodified	1164300	851020	962500	0	0	0	0	0	0
TAATSVPAYEPLDSLDR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15_HUM	Unmodified	801660	1018500	1393700	68732	31567	35835	0	0	0
TAAYAIPMLQLLLHR	DDX56; DDX56; DD	Q9NY93; H7C3E5	DDX56_HUM	Oxidation (M)	1062700	1395800	1079800	0	0	0	0	0	0
TAAYGHFGRDSFPWEVPK	MAT2A	P31153	METK2_HUM	Unmodified	741730	488640	689290	0	0	0	0	0	0
TAAYVNAIEKVFK	GLUD2; GLUD1	P49448; P00367	DHE4_HUMA	Unmodified	624230	571800	536910	0	0	0	0	0	0
TADDPSLSLIK	DDOST; DDOST; DD	P39656; U3KQ84;	OST48_HUM	Unmodified	4469900	4837100	3624600	68999	69218	60688	0	0	0
TADGIVSHLKK	PDIA3	P30101	PDIA3_HUM	Unmodified	4315900	4186100	5113300	290690	265280	334380	0	0	16301
TADHAAPEITLDPLEIVGGEIR	HECTD4; HECTD4; I	Q9Y4D8; J3KPF0	HECD4_HUM	Unmodified	447470	226440	216090	0	0	0	0	0	0
TADIPALFLLGR	PRADC1	Q9BSG0	PADC1_HUM	Unmodified	149850	0	95441	0	0	0	0	0	0
TADKHKDVIINQEGEYIK	EML4	Q9HC35	EMAL4_HUM	Unmodified	0	277610	694280	0	0	0	0	0	0
TADSQETKESQKVELSESR	MCM3; MCM3; MC	P25205; Q7Z6P5;	MCM3_HUM	Unmodified	880180	834510	1046400	0	0	0	0	0	0
TAEAELSR	GOLGA3	Q08378	GOGA3_HUM	Unmodified	1525400	0	1098800	0	0	0	0	0	0
TAEAGGVTGK	PARP1; PARP1; PAR	P09874; A0A7Z\	PARP1_HUM	Unmodified	2998600	3083400	3517000	89595	112040	111150	0	0	0
TAEAGGVTGKGQDGIGSK	PARP1; PARP1; PAR	P09874; A0A7Z\	PARP1_HUM	Unmodified	1721500	1903900	5541000	0	0	69495	0	0	0
TAEAQLAYELQGAR	FLOT2; FLOT2; FLO	Q14254; J3QLD9;	FLOT2_HUM	Unmodified	378730	397940	498740	23118	29479	55326	0	0	0
TAEEENPEHVEIQK	MPHOSPH10	O00566	MPP10_HUM	Unmodified	1457200	901990	776320	0	0	0	0	0	0
TAEEFLQQMNYSK	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M)	8127600	8118500	7947500	68865	77493	313280	0	0	0
TAEEFLQQMNYSKNTQIQVLPEGGETPIFK	SCIN	Q9Y6U3	ADSV_HUMA	Methyl (KR);2 Dea	2205400	0	0	0	0	0	0	0	0
TAEEFLQQMNYSKNTQIQVLPEGGETPIFK	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M);2 De	1643700	0	1448500	0	0	0	0	0	0
TAEEFLQQMNYSKNTQIQVLPEGGETPIFK	SCIN	Q9Y6U3	ADSV_HUMA	Oxidation (M);Deai	0	0	2290700	0	0	0	0	0	0
TAEELMNFSKGEENLMDAQVK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	2 Oxidation (M)	2564400	1663000	2066700	0	0	0	0	0	0
TAEELMNFSKGEENLMDAQVK	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	2 Oxidation (M);De	4378700	3169100	2443000	48048	55513	34414	0	0	0
TAEEMKATESGAQSAPLPMEGVDISPK	FKBP4; FKBP4	Q02790; F5H120	FKBP4_HUM	2 Oxidation (M)	4400100	2907300	3727500	557610	323910	0	0	0	0
TAEEMKATESGAQSAPLPMEGVDISPK	FKBP4; FKBP4	Q02790; F5H120	FKBP4_HUM	Acetyl (Protein N-t	2140500	1805500	1779500	125630	133140	108540	0	0	0
TAEEMKATESGAQSAPLPMEGVDISPKQDEGVLK	FKBP4; FKBP4	Q02790; F5H120	FKBP4_HUM	2 Oxidation (M)	9014000	8803200	11910000	0	0	0	0	0	0
TAEEMKATESGAQSAPLPMEGVDISPKQDEGVLK	FKBP4; FKBP4	Q02790; F5H120	FKBP4_HUM	Acetyl (Protein N-t	9230300	8461200	8482500	92787	0	46511	0	0	0
TAEEPPQEKAPEPTDAR	HTATSF1; HTATSF1	O43719; Q5H919;	HTSF1_HUM	Unmodified	2372700	2772000	3301600	160480	210090	206900	0	0	0
TAEEPPQEKAPEPTDARK	HTATSF1; HTATSF1	O43719; Q5H919;	HTSF1_HUM	Unmodified	1446900	1174700	1410700	0	133980	224710	0	0	0
TAEEVAALIR	PRPF8	Q6P2Q9	PRP8_HUMA	Unmodified	6407300	4363600	4059600	37630	41745	55100	0	0	0
TAEFQVAR	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	3930300	5688300	5211200	138180	158820	134210	0	0	0
TAEGAPGAGLQR	PPP1R12C; PPP1R12	Q9BZL4; K7EL81	PP12C_HUM	Unmodified	0	0	0	153650	161320	262960	0	0	13464
TAEHFQEAMEESKTHFR	SDF4; SDF4; SDF4; S	Q9BRK5; H0Y3T(	CAB45_HUM	Oxidation (M)	582430	461560	576540	127070	109940	140060	0	0	0
TAEKCDLFIQEGAR	GLYR1; GLYR1	Q49A26; K7EMM	GLYR1_HUM	Unmodified	464140	538350	424420	0	55052	65987	0	0	0
TAELNVQVPEEPTHLDQR	MIA3; MIA3	Q5JRA6; A0A0A(	TGO1_HUMA	Unmodified	2413500	2625000	3112800	602100	554000	409820	103980	107710	84926
TAESQTPTPSATSFFSGK	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TAETGVIQR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1_HUMA	Unmodified	542390	569690	1023800	0	0	0	0	0	0
TAEVLANK	DYNC1H1; DYNC1H	Q14204; A0A7P(	DYHC1_HUM	Unmodified	2190100	1941100	1171300	65847	0	65890	0	0	0
TAEYDVAYGESHLFR	COL6A1; COL6A1	P12109; A0A087	CO6A1_HUM	Unmodified	1780400	1666300	1340900	65141	36370	40527	38894	0	24878
TAFDEAIAELDTLSEESYK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z_HUM	Unmodified	405750	56430	272830	0	0	0	0	0	0
TAFLTVVK	CAMSAP2	Q08AD1	CAMP2_HUM	Unmodified	324320	251510	320600	10046	0	0	0	0	0
TAFVPTALR	SLC27A3; SLC27A3	Q5K4L6; X6R3N(	S27A3_HUM	Unmodified	765570	675560	674840	0	0	35941	0	0	0
TAFYLAEFFVNEAR	GGH	Q92820	GGH_HUMA	Unmodified	682550	180350	369110	0	0	0	0	0	0
TAFYLAEFFVNEAR	GGH	Q92820	GGH_HUMA	Deamidation (N)	116510	12940	69673	0	0	0	0	0	0
TAGAPTGTVPQQLQVHGVQQSVPVTQER	RFX1	P22670	RFX1_HUMA	Unmodified	2619200	3920900	2994600	227420	194490	168330	0	0	0
TAGEEEMIKIR	FRG1; FRG1	Q14331; E9PLY7	FRG1_HUMA	Oxidation (M)	369660	1400100	1129200	21209	0	13516	0	0	0
TAGLRPMETKDIPVVHQLLTR	NMT1; NMT1; NMT	P30419; A0A7Z\	NMT1_HUM/	Oxidation (M)	360560	370420	827810	0	0	0	0	0	0
TAGPLESSETEEASQLK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	899690	895160	812840	0	0	0	0	0	0
TAGPLESSETEEASQLKER	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	4326500	4381400	3525800	361150	329590	264870	0	0	0
TAGPLESSETEEASQLKERLEK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	846620	1149500	0	0	0	0	0	0	0
TAGPLESSETEEASQLKERLEKEK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	1522500	1505300	1343700	0	0	0	0	0	0
TAGPQQKNLEPALPGR	MORF4L2; MORF4L	Q15014; Q5JXX1;	MO4L2_HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
TAGTLFGEGFR	ATAD3A; ATAD3B;	Q9NVI7; Q5T9A4	ATD3A_HUM	Unmodified	665730	770100	721510	0	0	0	0	0	0
TAGTSFMMTPYVVTR	MAPK8; MAPK10; M	P45983; P53779;	MK08_HUMA	2 Oxidation (M)	757830	1164600	1080100	52078	0	121850	0	0	0
TAGVKVETTEDLVAK	ETFB	P38117	ETFB_HUMA	Unmodified	5558800	3800400	5045100	0	69110	0	0	0	0
TAHETDKSEGGKR	CBX1; CBX1; CBX1;	P83916; C9JWS9;	CBX1_HUMA	Unmodified	0	815160	479720	0	13589	0	0	0	0
TAHLDEEVNKGDILVVATGQPEMVK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Oxidation (M)	0	1791200	0	0	0	0	0	0	0
TAIEEVQAER	P3H1	Q32P28	P3H1_HUMA	Unmodified	1090100	914100	1113300	95800	120580	87795	0	0	0
TAIGKAGYTDKVVIGMDVAASEFFR	ENO1; ENO1	P06733; A0A2R8'	ENOA_HUM/	Oxidation (M)	2795300	220490	4336200	0	0	0	0	0	0
TAIGKAGYTDKVVIGMDVAASEFFR	ENO1; ENO1	P06733; A0A2R8'	ENOA_HUM/	Oxidation (M);Met	3770800	1992100	2023200	0	0	0	0	0	0
TAIHEVMEQGR	MCM3; MCM3; MC	P25205; A0A499I	MCM3_HUM	Oxidation (M)	3144600	2511200	0	0	0	0	0	0	0
TAIHEVMEQGRVTIAK	MCM3; MCM3; MC	P25205; A0A499I	MCM3_HUM	Oxidation (M)	255760	427310	399350	0	0	0	0	0	0
TAIHEVMEQQTISIAK	MCM7	P33993	MCM7_HUM	Oxidation (M)	2439400	2421800	2064400	0	0	0	0	0	0
TAIHTAAMDMLGGPGIESQCR	HSDL2	Q6YN16	HSDL2_HUM	2 Oxidation (M)	875400	4439900	2779600	0	49373	145010	0	0	0
TAIPFTQEPQR	CYFIP2; CYFIP2; CY	Q96F07; H7C229;	CYFP2_HUM	Unmodified	2222600	1893600	1616700	246360	0	184740	0	0	0
TAKDALSSVQESQVAQQAR	APOC3; APOC3	P02656; B0YIW2	APOC3_HUM	Unmodified	948350	778580	1194400	0	0	0	0	0	0
TAKGEKFVMQEEFSRDGK	PDIA3	P30101	PDIA3_HUM	Oxidation (M)	1810600	1567800	1654800	162120	0	139660	0	0	0
TAKIEDETQVSR	MED22; MED22; ME	Q15528; E7EN96;	MED22_HUM	Unmodified	482420	667650	0	0	0	0	0	0	0
TALAEAELEYNPEHVSR	IARS2	Q9NSE4	SYIM_HUMA	Unmodified	20821000	26142000	22241000	1618000	1583900	1317800	190630	184450	144730
TALAMGADR	ETFB	P38117	ETFB_HUMA	Oxidation (M)	345910	5485100	5998500	390090	331130	443230	0	0	0
TALAQIFR	IFT27; IFT27; IFT27	Q9BW83; B1AH5	IFT27_HUMA	Unmodified	633420	913880	713210	0	0	0	0	0	0
TALFEEISR	SMC1A; SMC1A	Q14683; G8JLG1	SMC1A_HUM	Unmodified	9972700	8390500	10523000	440530	381540	360120	20478	23621	0
TALGVAELTVTDLFR	LPCAT1; LPCAT1; L	Q8NF37; A0A0G2	PCAT1_HUM	Unmodified	216600	42822	95909	0	0	0	0	0	0
TALHGESNSVLIIGPR	ORC4; ORC4; ORC4;	O43929; C9J2X8;	ORC4_HUMA	Deamidation (N)	858020	1148300	738440	0	0	0	0	0	0
TALIHDGLAR	RPS12	P25398	RS12_HUMA	Unmodified	2099000	1873900	1538400	0	0	0	0	0	0
TALINSTGEEVAMR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M);Deai	13676000	13199000	15847000	1819000	1936900	2173000	68649	117980	311110
TALINSTGEEVAMR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M)	4843200	4483600	4612800	776860	878440	913880	62412	65515	36187
TALINSTGEEVAMRK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M)	2570800	2144500	2011600	527130	930450	588660	66711	76389	46095
TALINSTGEEVAMRK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M);Deai	3229000	3689700	4300900	1282100	974470	642560	0	231090	224060
TALINSTGEEVAMRKLVR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M)	0	0	0	214050	165390	210850	187680	173540	78921
TALINSTGEEVAMRKLVR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Oxidation (M);Deai	0	0	0	613420	0	498230	475590	512920	718840
TALLGGGQR	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB_HUMA	Unmodified	535760	1841000	1620200	214490	209960	207540	17374	0	0
TALLPSDSVFAEER	ZNF638	Q14966	ZN638_HUM	Unmodified	1279300	1162200	1300000	75356	94457	0	0	0	0
TALLSLFGIPLWYHSQSPR	SUN2; SUN2	Q9UH99; B0QY6(	SUN2_HUMA	Unmodified	249800	53449	145810	0	0	0	0	0	0
TALLSVGPDAVFGPEGSPWEGR	IGSF3	O75054	IGSF3_HUM	Unmodified	152970	158980	379420	0	0	0	0	0	0
TALPAQSAATLPAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Unmodified	12679000	11560000	11912000	2909600	4099400	3624000	504250	415870	443390
TALPSLELK	DMAC2L; DMAC2L	Q99766; A0A5K1	ATP5S_HUM	Unmodified	469270	477130	520500	0	0	0	0	0	0
TALPTSGSSAGELELLAGEVPAR	EPN1	Q9Y6I3	EPN1_HUMA	Unmodified	3478700	3220200	3984000	0	0	0	20069	0	0
TALQKEITTR	EPCAM; EPCAM	P16422; B5MCA4	EPCAM_HUM	Unmodified	1525100	1143000	1096400	0	0	0	0	0	0
TALQKEITTRYQLDPK	EPCAM; EPCAM	P16422; B5MCA4	EPCAM_HUM	Unmodified	695540	917130	794480	0	0	0	0	0	0
TALQVFDPLAKT	SYNJ2; SYNJ2; SYN	O15056; E7ER60;	SYNJ2_HUM	Unmodified	607910	675320	4739700	99222	94688	91643	0	43790	0
TALVANTSNMPVAAR	ATP6V1A	P38606	VATA_HUM/	Oxidation (M)	6092400	3083500	4765300	687080	659100	730060	39884	0	36232
TALVANTSNMPVAAR	ATP6V1A	P38606	VATA_HUM/	Oxidation (M);Deai	4956800	4941300	4688300	245010	251180	322110	0	0	29105
TAMELQR	SMARCA5	O60264	SMCA5_HUM	Oxidation (M)	836120	2642700	5320400	72862	0	143200	19182	0	0
TAMEVEAPSKPAR	C11orf98	E9PRG8	CK098_HUM	Oxidation (M)	0	0	2033500	0	0	0	0	0	0
TAMLLALQRPELVER	ABHD11	Q8NFV4	ABHDB_HUM	Oxidation (M)	3131100	1939400	2036800	0	54428	0	0	0	0
TAMNVNDLFLAIAK	RAB5B	P61020	RAB5B_HUM	Oxidation (M)	2658100	2517700	1667900	21731	0	9752	0	0	0
TAMNVNEIFMAIAK	RAB5C	P51148	RAB5C_HUM	2 Oxidation (M)	18724000	19514000	16658000	102450	106220	63813	24285	18311	0
TAMNVNEIFMAIAK	RAB5C	P51148	RAB5C_HUM	2 Oxidation (M);De	112960	98024	0	0	0	0	0	0	0
TAMSTPHVAEPAENEQDEQDENGAEASADLR	MSN	P26038	MOES_HUM/	Oxidation (M);2 De	1463900	0	2814800	0	0	77656	0	0	0
TAMVAALSPADINYDETLSTLR	KIF1B; KIF1A; KIF1/	O60333; Q12756;	KIF1B_HUM/	Oxidation (M)	3068400	1844300	1367800	0	0	0	0	0	0
TANKDHLVTAYNHLFETK	FKBP3	Q00688	FKBP3_HUM	Unmodified	0	1476500	2649000	0	0	0	0	0	0
TANKDHLVTAYNHLFETKR	FKBP3	Q00688	FKBP3_HUM	2 Deamidation (N)	778850	607200	382890	0	0	0	0	0	0
TANKDHLVTAYNHLFETKR	FKBP3	Q00688	FKBP3_HUM	Unmodified	4365200	3288200	3061800	0	0	0	0	0	0
TAPAANLASR	SRRM2	Q9UQ35	SRRM2_HUM	Unmodified	15146000	13307000	15996000	480360	664300	515900	0	0	33954
TAPARVPTLAVPAISLPDDVR	DNMT1; DNMT1; DI	P26358; A0A7Z\	DNMT1_HUM	Unmodified	2597500	0	2198700	0	0	0	0	0	0
TAPLTPTSREQILAK	ATP2A3	Q93084	AT2A3_HUM	Unmodified	493890	0	1049500	77152	0	0	0	0	0
TAPTSTIAPGVVMASSPALPTQPAEEAAR	CREB1; CREB1; CRI	P16220; C9JBT4;	CREB1_HUM	Oxidation (M)	9114100	8198200	9253800	667690	555640	0	45064	0	0

TAPVQAPPAPVIVTETPEPAMTSGVYRPPGAR	CDV3; CDV3; CDV3	Q9UKY7; D6RAV	CDV3	HUMA	Oxidation (M)	2298200	1736800	5763300	236160	223400	45392	63748	24822	23343
TAPYVVTGSVDQTVK	PAFAH1B1; PAFAH	P43034; I3L3N5; ,	LIS1	HUMAN	Unmodified	954060	925310	621130	0	0	0	0	0	0
TAQAAAALR	GALK1; GALK1	P51570; K7EII7	GALK1	HUM	Unmodified	1625800	410070	1381100	0	0	0	0	0	0
TAQEVETYR	DDX5; DDX5; DDX5	P17844; A0A71V	DDX5	HUM	Unmodified	5075000	5704600	4638100	327990	0	562150	0	0	0
TAQEVETYRR	DDX5; DDX5; DDX5	P17844; A0A71V	DDX5	HUM	Unmodified	19683000	23425000	15195000	1987800	1664700	1501200	0	0	118180
TAQGSLSLK	EIF3H; EIF3H; EIF3H	O15372; E5RJT0;	EIF3H	HUM	Unmodified	363350	1049400	1174800	0	13929	14438	0	0	0
TAQNFLSIFLKK	NIPBL; NIPBL	Q6KC79; A0A590	NIPBL	HUM	Unmodified	213790	233870	252340	0	0	0	0	0	0
TAQQLRAEK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	481070	486240	396570	25358	22163	31105	0	0	0
TAQTILEK	RNASEH2A	O75792	RNH2A	HUM	Unmodified	363860	550000	291240	0	0	0	0	0	0
TARPFGAPPPADSAPQQNGQPLRPLVPDASK	PDLIM7; PDLIM7; P	Q9NR12; H7BYK	PDLI7	HUM	Deamidation (N)	770580	1392400	870000	37277	0	24812	0	0	0
TASDAGFPVGSHVQYR	SEZ6L2; SEZ6L2	Q6UXD5; A0A087	SE6L2	HUM	Unmodified	0	6871000	1529300	98397	784570	271960	0	0	0
TASDMVSTSR	PSMD12	O00232	PSD12	HUM	Oxidation (M)	1117000	1660900	0	0	161450	425360	0	0	0
TASEMVLADDNFSTIVAAVEEGR	ATP2A1; ATP2A2; A	O14983; P16615;	AT2A1	HUM	Oxidation (M)	908250	105120	535850	0	0	0	0	0	0
TASFSESR	ACLY	P53396	ACLY	HUM	Unmodified	3222500	3234100	3192200	358040	389680	0	16616	0	0
TASFSESRADEVAPAK	ACLY	P53396	ACLY	HUM	Unmodified	1278800	971530	0	0	0	0	0	0	0
TASFSESRADEVAPAKK	ACLY	P53396	ACLY	HUM	Unmodified	1394900	6924800	5712000	625810	1407400	1444500	102910	112030	91316
TASFVARNGPEFEAR	SF3A1	Q15459	SF3A1	HUM	Deamidation (N)	4644800	4531700	3701500	0	146870	104210	0	0	28516
TASGAVDEDALTLEELEEQQRR	ZCCHC8	Q6NZY4	ZCHC8	HUM	Unmodified	1631700	1599700	1182500	0	0	0	0	0	0
TASGSSVTSLDGTR	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1	HUM	Unmodified	15543000	13318000	15623000	2162200	1541100	1841900	0	0	0
TASGSSVTSLDGTRSR	NDRG1; NDRG1; NI	Q92597; E7ESM1	NDRG1	HUM	Unmodified	395960	0	158750	274140	302860	308820	0	62500	0
TASNIIDVSAADSQGMEQHEYMDR	LAMTOR1; LAMTOI	Q6IAA8; H0YFI1;	LTOR1	HUM	2 Oxidation (M)	1754800	1997200	1657100	0	0	0	0	0	0
TASNVEEAFINTAK	RAB2A; RAB2A	P61019; H7C125	RAB2A	HUM	Unmodified	2055300	2866300	2407300	0	0	0	0	0	0
TASNVEEAFINTAKEIYEK	RAB2A; RAB2A	P61019; H7C125	RAB2A	HUM	Unmodified	3906500	3535100	5131100	0	0	0	0	0	0
TASRPDDIPDSPSSPK	CARMIL1; CARMIL	Q5VZK9; A0A0U	CARL1	HUM	Unmodified	1904300	1495700	1724800	178510	171890	0	0	0	0
TASTLLKPAPSGLPSER	INTS1	Q8N201	INT1	HUMA	Unmodified	451810	636400	335460	0	0	0	0	0	0
TASTNNIAQAR	GNG12	Q9UBI6	GBG12	HUM	Deamidation (N)	0	0	1073200	160570	215250	184420	0	0	0
TASTPTPPQTGGGLEPQANGETPQVAVIVRPDDR	EIF4G1; EIF4G1; EIF	Q04637; C9JSU8;	IF4G1	HUM	Deamidation (N)	10765000	11958000	11032000	226590	50648	79372	53803	0	49946
TASVFLLEKDR	THOC3; THOC3	Q96J01; D6RGZ2	THOC3	HUM	Unmodified	485630	716640	595760	0	0	0	0	0	0
TASVPLDAVR	MRPL38	Q96DV4	RM38	HUM	Unmodified	5308200	5036800	4548400	0	0	441810	0	0	0
TATADDKKLQSSLK	BTF3L4; BTF3L4	Q96K17; E9PL10	BT3L4	HUM	Unmodified	431480	753560	923430	71455	0	54625	0	0	0
TATEEWGTEDWNEDLSETK	UBAP2L; UBAP2L; I	Q14157; Q5VU79	UBP2L	HUM	Unmodified	521510	406580	589640	0	0	0	0	0	0
TATEKPLGELWK	DTYMK; DTYMK	P23919; H7C312	KTHY	HUM	Unmodified	7027200	6418500	6505300	0	124500	117550	0	23580	25975
TATESFASDPILYR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	0	0	1421700	0	0	22844	0	0	0
TATESFASDPILYRPVAVALDTK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	282850000	211710000	376880000	179320	127420	259040	390740	159620	190360
TATESFASDPILYRPVAVALDTKGPEIR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	376200000	212760000	333620000	118280	25607	82322	61707	23416	0
TATESFASDPILYRPVAVALDTKGPEIR	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Methyl (KR)	13786000	9464500	1266200	0	0	0	0	0	0
TATFQQR	POLDIP3; POLDIP3;	Q9BY77; Q6R954	PDIP3	HUM	Unmodified	1279000	0	1170400	153360	210530	0	0	29154	0
TATGAISAVFGR	TRRAP; TRRAP; TR	Q9Y4A5; F2Z2U4	TRRAP	HUM	Unmodified	779170	494080	649330	28434	28927	28114	0	0	0
TATITEPR	EFTUD2	Q15029	US51	HUMA	Unmodified	9491700	7626600	10096000	990900	870370	821140	0	0	0
TATPEIVDNKDGTVTVR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	3410800	3563500	1703400	2886400	2633400	2597300	253330	138270	166950
TATPEIVDNKDGTVTVR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Deamidation (N)	0	705400	920460	571950	223610	322750	21398	32681	42904
TATPQQAQEVHEK	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Unmodified	70311000	91090000	36629000	0	0	0	0	0	0
TATPQQAQEVHEKLR	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Unmodified	58043000	55217000	61541000	648960	739170	1119800	0	169060	0
TATPQQAQEVHEKLR	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Methyl (KR)	9396200	12150000	11079000	52764	449020	382260	0	0	0
TATPQQAQEVHEKLRGWLK	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Unmodified	3809400	5104800	4362900	0	0	0	0	0	0
TATPQQAQEVHEKLRGWLKSNVSDAVAQSTR	TPI1	P60174	TPIS	HUMA	Unmodified	970020	1078000	983350	0	0	0	0	0	0
TATSEYQTFFNPR	F2; F2; F2	P00734; E9PIT3;	THRB	HUM	Unmodified	1825000	1464600	1028100	222330	224830	237580	0	0	0
TATVGGAMMGSTHIYDMSTVMSR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2	HUM	4 Oxidation (M)	12728000	14976000	11124000	2816300	2309400	2845400	389120	0	394890
TAVAPIER	SLC25A4; SLC25A6;	P12235; P12236; (	ADT1	HUMA	Unmodified	4848000	49740000	4219700	0	0	0	0	0	0
TAVAPSAVNLADPR	SRRM2	Q9UQ35	SRRM2	HUM	Deamidation (N)	1669000	1309800	1214400	38322	62134	57333	0	0	0
TAVAPSAVNLADPR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	14682000	13455000	16603000	961730	983420	912960	150550	113460	0
TAVAPSAVNLADPRTPTAPAVNLAGAR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	3408500	2655400	1274300	777310	130820	131180	0	0	41720
TAVCDIPPR	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	Unmodified	4806000	6136800	4377500	263980	41802	175880	0	0	0
TAVCDIPPRGLK	TUBB2A; TUBB8B;	Q13885; A6NNZ2	TBB2A	HUM	Unmodified	3324800	2348100	2285000	249610	195990	179910	0	0	0
TAVDGPDLEMLTGQER	FKBP8; FKBP8	Q14318; M0R2K9	FKBP8	HUM	Oxidation (M)	2537800	1715500	1974100	42513	98049	0	0	0	0
TAVDSGIPLLTNFQVTK	CPS1	P31327	CPSM	HUM	Unmodified	453260	466490	356960	29362	0	17552	19075	0	0
TAVEHATDEDILAK	LRBA; LRBA; LRBA	A0A494C1L5; H0	A0A494C1L5	HUM	Unmodified	2703500	1103300	937050	129200	114090	171530	0	15666	7353.9
TAVEKLEVDVIQER	HMG20A; HMG20A	Q9NP66; H0YKL(	HM20A	HUM	Unmodified	707470	623080	835020	0	0	0	0	0	0
TAVEQWHSLR	SYT17; SYT17; SYT	Q9BSW7; H3BSX	SYT17	HUM	Unmodified	150830	185180	268520	0	0	0	0	0	0
TAVETAVLLLR	CCT3; CCT3	P49368; B4DUR8	TCPG	HUM	Unmodified	3091200	1778400	1789700	25431	30047	19398	24438	27958	23036
TAVHAGNINFKWDPK	CTNNA1; CTNNA1;	P35221; E5RJB1;	CTNA1	HUM	Acetyl (Protein N-t	995070	792150	441210	27604	22108	11164	0	0	0
TAVLTAFANGR	ACTL6A; ACTL6B	O96019; O94805	ACL6A	HUM	Deamidation (N)	2262200	1684800	2192100	26199	0	0	0	0	0
TAVNALWGK	HBD; HBD; HBD; HI	P02042; E9PEW8	HBD	HUMA	Unmodified	7991500	8152800	4421000	49940	49621	46707	0	0	0
TAVNALWGK	HBD; HBD; HBD; HI	P02042; E9PEW8	HBD	HUMA	Deamidation (N)	1586800	1404300	1471400	11513	17654	18075	0	0	0
TAVPSFLTK	FYTTD1	Q96QD9	UIF	HUMAN	Unmodified	867140	1010800	925590	57014	98093	80262	0	0	0
TAVSSELR	UGGT1	Q9NYU2	UGGG1	HUM	Unmodified	878930	1078200	859730	0	47070	65655	0	0	0
TAVVVGTITDDVR	RPL18; RPL18; RPL	Q07020; F8VUA6	RL18	HUMA	Unmodified	7816300	8206600	6345000	203200	199910	127700	20421	0	0
TAWNPLGEAAPPGELYRR	HIRIP3	Q9BW71	HIRP3	HUM	Unmodified	2262200	3460000	1794900	0	0	12704	0	0	0
TAYGPNGMNK	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUMA	Oxidation (M);Deau	1526900	1790500	1595400	0	75079	0	0	0	0
TCAYTNHTVLPEALER	PYGB; PYGM	P11216; P11217	PYGB	HUMA	Deamidation (N)	858580	605750	0	0	0	0	0	0	0
TCESLGAGGYR	HSPG2	P98160	PGBM	HUM	Unmodified	1927500	1873400	1954000	308120	375680	351210	0	91936	0
TCPKPDDLPFSTVVPLK	APOH; APOH	P02749; J3QRN2	APOH	HUM	Unmodified	3302400	1978900	0	0	0	0	0	0	11464
TCPLLLR	SAP18; SAP18; SAP	O00422; H7BZW6	SAP18	HUM	Unmodified	3148300	2608700	2503300	209980	219390	142030	0	0	20006
TCVDINECLLEPR	FBN1; FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	0	0	0	0	0	0	0	0	52386
TCVDINECLLEPRK	FBN1; FBN1; FBN1	P35555; H0YND0	FBN1	HUMA	Unmodified	0	0	0	0	0	0	149670	102960	127780
TDAAVEMK	DBN1; DBN1	Q16643; D6R9W4	DREB	HUMA	Oxidation (M)	0	358030	353780	0	0	0	0	0	0
TDAETLPALK	PAPSS1	O43252	PAPS1	HUM	Unmodified	1290500	920190	836800	190580	387010	88784	0	0	0
TDAGFTLR	VCL	P18206	VINC	HUMA	Unmodified	5138900	3477000	3880000	335560	368250	438220	85144	100130	64308
TDAGGEDAILQTR	ATG3	Q9NT62	ATG3	HUMA	Unmodified	646050	892450	0	0	65280	0	0	0	0
TDAISEEKLREIFGLYGQTTGK	SAR1A; SAR1A	Q9NR31; H0Y5E8	SAR1A	HUM	Unmodified	692810	391310	752320	0	0	0	0	0	0
TDALTSSPGR	MCM2; MCM2; MC	P49736; F8WDM2	MCM2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TDAPLNIR	TRAP1; TRAP1; TR	Q12931; I3L0K7;	TRAP1	HUM	Unmodified	8620200	5999900	8710700	199220	246290	224480	0	0	0
TDAPQPDVK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	2245200	2046100	2026500	37379	0	45485	0	0	0
TDAPQPDVKEEEEEKEEEK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	450460	559180	622110	0	0	0	0	0	0
TDASSASSFLDSDELER	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39	HUM	Unmodified	2410100	1903500	1970800	120130	115560	108060	0	0	0
TDAVDSVVR	SND1	Q7KZF4	SND1	HUM	Unmodified	3781900	6626000	4589200	69072	78282	81216	0	0	0
TDDEVVQR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	10820000	14820000	14645000	372710	404480	390590	0	0	0
TDDEVVQREEEAIQLDGLNASQIR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Deamidation (N)	2737400	0	0	0	0	0	0	0	0
TDDEVVQREEEAIQLDGLNASQIR	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL	HUM	Unmodified	1411800	1401400	1336300	0	0	0	0	0	0
TDDYLDQPCLETVNR	GDI1	P31150	GDIA	HUM	Unmodified	1360200	843030	1080300	22439	0	0	0	0	0
TDDYLDQPCYETINR	GDI2; GDI2; GDI2	P50395; Q5SX91;	GDIB	HUM	Unmodified	661930	677730	0	21038	0	0	0	0	0
TDEAAFQK	S100A4	P26447	S10A4	HUM	Unmodified	1221800	1022800	1149900	0	0	0	0	0	0
TDEEGKDVPDHAVLEMK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1	HUM	Oxidation (M)	3082000	6873300	5406800	463710	239190	304880	0	0	0
TDEGIAYR	PRDX2	P32119	PRDX2	HUM	Unmodified	21575000	28249000	24975000	607490	505010	615680	0	0	0
TDELLALGR	TPR	P12270	TPR	HUMAN	Unmodified	1646800	858740	1150800	47816	44215	30873	0	0	0
TDELPQLVTLPHPNLHGPEILDVPSTVQK	FN1; FN1	P02751; H0Y7Z1	FINC	HUMA	Unmodified	1951300	1087100	965820	0	0	0	0	0	0
TDEMDLIR	N/A	N/A	N/A		Oxidation (M)	4738000	5509600	4529500	0	147060	0	0	0	0
TDEQALLSSILAK	LAMTOR1; LAMTOI	Q6IAA8; H0YFI1;	LTOR1	HUM	Unmodified	8108100	6684600	6647800	39691	28510	14066	28311	0	15687
TDFFIGGEEGMAEK	NUDC; NUDC	Q9Y266; A0A0A0	NUDC	HUM	Oxidation (M)	5013800	3856600	4099700	0	67689	30756	0	0	0
TDFGIFR	MCCC2	Q9HCC0	MCCB	HUM	Unmodified	412750	1053600	424210	94240	0	72825	0	9344.9	0
TDFGIFRM	MCCC2	Q9HCC0	MCCB	HUM	Oxidation (M)	576880	534660	491570	142790	112550	145520	0	0	0
TDGEPGPQGWSPR	DCTPP1	Q9H773	DCTP1	HUM	Unmodified	928370	0	0	0	0	0	0	0	0
TDHPEIGEGKPTPALSEASSSSIR	IMMT; IMMT	A0A087WYS0; C9	A0A087WYS(	HUM	Unmodified	1081300	0	0	0	0	0	0	0	0
TDHPEIGEGKPTPALSEEASSSSIR	IMMT	Q16891	MIC60	HUM	Unmodified	5455800	5668600	4602100	0	139060	0	0	0	0
TDIFGVEETAIGK	SF3A1	Q15459	SF3A1	HUM	Unmodified	1307800	1333600	1149600	0	0	0	0	0	0
TDIFGVEETAIGKK	SF3A1	Q15459	SF3A1	HUM	Unmodified	3428900	3277800	2699600	94612	86678	81269	0	0	28508
TDIKVVDRDSEEAEIIR	PARP1; PARP1	P09874; A0A7Z7	PARP1	HUM	Unmodified	0	690570	947980	0	0	0	0	0	0
TDIKVVDRDSEEAEIIRK	PARP1; PARP1	P09874; A0A7Z7	PARP1	HUM	Unmodified	1770600	1436100	1455200	0	0	0	0	0	0
TDITYPAGFMDVISIDK	RPS4X	P62701	RS4X	HUMA	Oxidation (M)	5254200	4331700	4935400	17767	0	16648	0	22413	0
TDITYPAGFMDVISIDKTGENFR	RPS4X	P62701	RS4X	HUMA	Oxidation (M)	2043200	7452900	0	0	0	0	0	0	0
TDKSSASAPDVDDPEAFPALA	SERBP1	Q8NC51	PAIRB	HUM	Unmodified	13792000	13668000	12288000	1086200	1145800	1015100	0	32287	40581
TDKTLVLLMGK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Oxidation (M)	11530000	10675000	9925800	0	139350	115720	0	0	0
TDKTMTELEIDMNQR	USP5	P45974	UBP5	HUMA	2 Oxidation (M)	1029400	1363200	1237400	0	0	0	0	0	0
TDKTMTELEIDMNQR	USP5	P45974	UBP5	HUMA	2 Oxidation (M);De	2547700	3241900	1049000	0	28617	0	0	0	0
TDKVFEVMLATDR	PCMT1; PCMT1; PC	P22061; F8WAV5	PIMT	HUMA	Oxidation (M)	2258400	1591800	1265400	29503	0	0	0	0	0
TDLAAVPASR	IVD; IVD; IVD; IVD;	P26440; A0A0A0	IVD	HUMAN	Unmodified	0	0	1413400	80424	180260	188740	0	0	0
TDLEELNLGPR	ARFIP1	P53367	ARFP1	HUM	Unmodified	1207400	1017200	0	90066	84476	84964	0	0	0
TDLEKDISDTSGDFR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	3004400	2045000	2330000	94358	0	0	0	0	0
TDLEKDISDTSGDFRK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	3305400	4634000	4635800	132070	124380	36639	0	0	0
TDLLLEPYNK	MYH9	P35579	MYH9	HUM	Unmodified	1464900	1527700	1912000	0	16646	0	0	0	0
TDLLLEPYNKYR	MYH9	P35579	MYH9	HUM	Unmodified	2173400	1688900	1757500	53991	40423	39371	0	0	0
TDLLLEPYNKYR	MYH9	P35579	MYH9	HUM	Deamidation (N)	574610	0	312530	0	0	0	0	0	0
TDLNPDNLQGGDDLDPNYVLSSR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB	HUM	Deamidation (N)	2219500	3969700	1970600	0	0	0	0	0	0
TDLNPDNLQGGDDLDPNYVLSSR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB	HUM	Unmodified	13323000	23768000	25093000	0	0	0	0	0	0
TDLPEEKPDATPQNPFLK	SH3PXD2B	A1X283	SPD2B	HUM	Unmodified	0	1134500	1513800	63054	69660	58005	0	18803	19674
TDLSNVQELLQFVK	POGLUT1	Q8NBL1	PGLT1	HUM	Unmodified	512990	116520	301820	0	0	0	0	0	0
TDLTGAFR	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Unmodified	5741000	5863200	6462000	23523	21716	27383	0	0	0
TDLTGAFRLDPTYLK	DDC; DDC; DDC; DI	P20711; A0A087	DDC	HUMA	Unmodified	4141500	5049800	3844900	0	0	0	0	0	0
TDLVPAFQNLMK	PPP2R1A; PPP2R1A;	P30153; B3KQV6	2AAA	HUMA	Oxidation (M)	985500	1058600	964990	0	0	0	0	0	0
TDMDNQIVVSDYAQMDR	CCT4	P50991	TCPD	HUMA	2 Oxidation (M)	1011200	692860	812860	0	0	0	0	0	0
TDMELEVLR	PEPD; PEPD; PEPD;	P12955; A0A494(	PEPD	HUMA	Oxidation (M)	2124500	1461200	566820	45816	57666	34806	0	0	0
TDMIQALGGVEGILEHTLFK	PRPF8; PRPF8	Q6P2Q9; I3L3Z8	PRP8	HUMA	Oxidation (M)	395690	0	143540	0	0	0	0	0	0

TDNAGDQHGGGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIR	HNRNPL	P14866	HNRPL_HUM	Unmodified	5593400	5056000	1555000	146050	0	79851	0	0	0
TDNAGDQHGGGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIR	HNRNPL	P14866	HNRPL_HUM	Deamidation (N)	2329700	6127500	3537900	123380	0	0	0	0	0
TDPLKFQIER	MRPL19; MRPL19	P49406; A0A0A0	RM19_HUM	Unmodified	1276800	824710	918370	0	0	36016	0	0	0
TDPSILGGMIVR	ATP5PO	P48047	ATPO_HUM	Oxidation (M)	13259000	12231000	12653000	462910	471720	464210	0	0	28137
TDPSVRPMHER	OCIAD1; OCIAD1; O	Q9NX40; D6RBN	OCAD1_HUM	Oxidation (M)	1620700	1444300	1727700	91157	89526	65679	0	0	0
TDPTTLTDEEINRFAR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUM	Unmodified	1897400	2309300	0	0	0	0	0	0	0
TDPVPEEGEDVAATISATETLSEEEQEELRR	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52_HUM	Unmodified	5492300	2090700	5492900	0	0	0	0	0	0
TDQAQKAEGAGDAK	HMGN2	P05204	HMGN2_HUM	Unmodified	2715100	3189500	7229200	921670	2435400	273750	0	0	0
TDQFPLFLIIMGKR	FAF1; FAF1; FAF1	Q9UNN5; B1ANN	FAF1_HUM	Oxidation (M)	0	152550	338800	0	0	0	0	0	0
TDQNPTYFLR	NT5DC3; NT5DC3	Q86UY8; H7C3S8	NT5D3_HUM	Unmodified	0	1374200	1540800	0	0	0	0	0	0
TDQVIQSLIALVNDPQPEHPLR	UBE2L5; UBE2L3	A0A1B0GUS4; P(	UB2L5_HUM	Deamidation (N)	426840	0	305270	0	0	0	0	0	0
TDQVIQSLIALVNDPQPEHPLR	UBE2L5; UBE2L3	A0A1B0GUS4; P(	UB2L5_HUM	Unmodified	2092100	396690	1236600	0	0	0	0	0	0
TDRGGDSIGETPTPGASK	SF3B1	O75533	SF3B1_HUM	Unmodified	562050	1261500	490600	74057	0	0	0	0	0
TDRGGDSIGETPTPGASKR	SF3B1	O75533	SF3B1_HUM	Unmodified	0	0	1482500	0	78717	176160	0	0	0
TDRYTIHSQLEHLQSK	SF3B5	Q9BWJ5	SF3B5_HUM	Acetyl (Protein N-t	0	2795900	3804800	168730	0	0	0	0	0
TDSDIIAK	SNRPA; SNRPA; SN	P09012; M0R2B8	SNRPA_HUM	Unmodified	12223000	11477000	11849000	0	828030	918560	0	0	0
TDSDIISK	SNRPB2	P08579	RU2B_HUM	Unmodified	3922600	3008300	3419200	300190	284990	307960	0	0	0
TDSFVGGR	ALDH5A1; ALDH5A	P51649; A0A5F9	SSDH_HUM	Unmodified	1253100	1164200	940070	108240	167220	174420	0	0	31908
TDTAEAVPKFEEMFASR	RAMAC	Q9BTL3	RAMAC_HUM	Acetyl (Protein N-t	580110	1472200	952360	37521	29805	22214	0	0	0
TDTESELDLISR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUM	Unmodified	2781100	2920800	3025500	0	0	0	0	0	0
TDTGEPMGR	HSP90AA1	P07900	HS90A_HUM	Oxidation (M)	41650000	32085000	31414000	1529200	1593200	2009800	0	0	0
TDTGRGNGPLPLGGSGLMEEMSALLAR	ENAH; ENAH	Q8N8S7; A0A0U1	ENAH_HUM	2 Oxidation (M);De	0	1116200	4258600	0	0	0	0	0	0
TDTLEDLFPTTK	XRCC5	P13010	XRCC5_HUM	Unmodified	5945000	6015000	7432900	94971	81576	0	0	0	0
TDTLEDLFPTTKIPNPR	XRCC5	P13010	XRCC5_HUM	Methyl (KR)	2233900	1271700	1274100	0	0	0	0	0	0
TDTLEDLFPTTKIPNPR	XRCC5	P13010	XRCC5_HUM	Unmodified	0	2722700	2675000	0	0	0	0	0	0
TDTMIQTPGPLPAPQLTSTVLR	STAG1; STAG1	Q8WVM7; Q68D1	STAG1_HUM	Oxidation (M)	3262800	2930800	3871900	0	0	0	0	0	0
TDTSHHDQDHPTFNK	SERPINA1; SERPIN/	P01009; A0A0B4J	A1AT_HUM	Unmodified	0	1971200	3777400	0	0	0	0	0	0
TDTVLILCR	CACYBP	Q9HB71	CYBP_HUM	Unmodified	821750	0	586170	0	0	18951	0	0	0
TDVAESEKEGLLTR	WASHC2A; WASHC	Q641Q2; Q9Y4E1	WAC2A_HUM	Unmodified	992030	1053000	945010	108630	106750	125630	0	0	0
TDVLTGLSIR	SAMD1; SAMD1; SA	Q6SPF0; F8WDT5	SAMD1_HUM	Unmodified	946410	1172700	1065500	0	0	0	0	0	0
TDWDAGFK	NCBP2; NCBP2; NC	P52298; C9JQX9;	NCBP2_HUM	Unmodified	778040	836100	688430	0	0	32964	0	0	0
TDYMVGSYGPR	ARHGDIA; ARHGDI	P52565; J3KTF8;	GDIR1_HUM	Oxidation (M)	0	1412600	1193000	0	0	0	0	0	0
TDYNASVSVPDSSGPER	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Unmodified	11167000	14957000	16408000	233620	349850	0	0	0	0
TDYNASVSVPDSSGPER	HNRNPK; HNRNPK	P61978; Q5T6W2	HNRPK_HUM	Deamidation (N)	28045000	23025000	27224000	530580	497690	511880	0	0	0
TEAANVEK	UPF1	Q92900	RENT1_HUM	Unmodified	111050	350310	0	0	0	0	0	0	0
TEADAEKTFEEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	11661000	10490000	13835000	0	0	721270	0	0	0
TEADAEKTFEEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	1457500	1975700	1375300	0	23585	0	0	0	0
TEADAEKTFEEKQGTEIDGR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	11170000	10801000	12364000	42995	43571	301260	0	0	0
TEADAEKTFEEKQGTEIDGR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	542670	1316300	1034500	0	0	0	0	0	0
TEALPYR	NELL1; NELL1	Q92832; J3KNC5	NELL1_HUM	Unmodified	0	1202800	1212100	0	0	0	0	0	0
TEALTQAFR	RUVBL2; RUVBL2;	Q9Y230; M0R0Y	RUVB2_HUM	Unmodified	1261300	2009900	1185400	0	0	0	0	0	0
TEALYYTDDTAMAR	ADPRS	Q9NX46	ADPRS_HUM	Oxidation (M)	1333900	1113500	850250	45301	66424	68220	0	0	0
TEAPAPASSTPQEPWPGPTAPSPTSRPPWAVDPAFAER	PDLIM7	Q9NR12	PDLI7_HUM	Unmodified	3115400	3695000	3090200	0	0	0	0	0	0
TEAPSATGQASSLLGGR	COL18A1; COL18A1	P39060; H7BXV5	COIA1_HUM	Unmodified	586970	1357900	655950	206160	194510	84281	0	0	0
TEAVASSLYDILAR	GLB1; GLB1; GLB1	P16278; C9J4G9;	BGAL_HUM	Unmodified	2341100	4307400	3287100	0	0	0	0	0	0
TECYGYALGDATR	PPP5C; PPP5C	P53041; H0YDU8	PPP5_HUM	Unmodified	515720	711720	614430	0	0	0	0	0	0
TEDIVAVQK	MME; MME; MME	P08473; A0A6Q8	NEP_HUM	Unmodified	2356700	971500	3371100	0	0	89398	0	0	0
TEDPDLPAFYFDPLINPISHR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8_HUM	Unmodified	3047600	2622900	3592000	0	0	0	0	0	0
TEDSLMPEEEFLR	SF3A1	Q15459	SF3A1_HUM	Oxidation (M)	749110	0	730080	26933	38705	26771	0	0	0
TEDSLMPEEEFLRR	SF3A1	Q15459	SF3A1_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
TEDTIFLR	ORM2; ORM1	P19652; P02763	A1AG2_HUM	Unmodified	1122500	1260900	958410	0	5611.4	0	0	0	0
TEEEEEDLPDAQTAAKRASR	RGS10	O43665	RGS10_HUM	Unmodified	0	0	0	0	1197300	0	0	0	0
TEEEEIDR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2_HUM	Unmodified	832440	2920200	851720	0	49005	63466	0	0	0
TEEEFKK	PDIA3; RARS1	P30101; P54136	PDIA3_HUM	Unmodified	446640	0	527380	18619	20686	17612	0	0	0
TEEGLGFNIMGGK	LIN7C; LIN7C	Q9NUP9; G3V1D	LIN7C_HUM	Oxidation (M)	1358100	0	1108000	0	24211	0	0	0	0
TEEGPTLSYGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	6810200	6609700	6535200	0	0	0	0	0	0
TEEGPTLSYGRDGR	MATR3; MATR3; M	P43243; D6REM6	MATR3_HUM	Unmodified	8386400	10116000	9930400	177910	0	178420	0	0	15933
TEELEEESFPER	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Unmodified	1597200	2346700	2371400	212620	221000	181120	0	0	0
TEEQGIPR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU_HUM	Unmodified	1979800	1127100	1067500	323260	48426	0	0	0	0
TEFLSFMNTELAAFTK	S100A11	P31949	S10AB_HUM	Oxidation (M)	553420	181510	277590	0	0	0	0	0	0
TEFLSFMNTELAAFTK	S100A11	P31949	S10AB_HUM	Oxidation (M);Dea	296760	0	359690	0	0	0	0	0	0
TEFTQGMILPTMNGESVDPVGQPALK	AHSA1; AHSA1; AH	O95433; H0YJG7;	AHSA1_HUM	2 Oxidation (M);De	1683800	1606700	1668600	0	0	0	0	0	0
TEGISTSDIITR	PCYT1A; PCYT1B; I	P49585; Q9Y5K3;	PCY1A_HUM	Unmodified	238360	317460	0	192050	235380	192500	0	0	0
TEGLSVLSQAMAVIKEK	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A_HUM	Oxidation (M)	0	443020	504410	0	0	0	0	0	0
TEGLSVLSQAMAVIKEKIEEK	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A_HUM	Oxidation (M)	1032200	516800	2509900	0	0	0	0	0	0
TEGLSVLSQAMAVIKEKIEEKR	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A_HUM	Oxidation (M)	1184900	556660	767620	0	0	0	0	0	0
TEGSLEDWDIAVQK	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	1415600	1390300	1700700	64315	53205	39065	0	0	0
TEHGSEMLFFGNAIEGK	APOB	P04114	APOB_HUM	Deamidation (N)	0	0	0	0	25020	0	0	0	0
TEHQVPSSVSSPDDAMVSPLKPAPK	COBLL1; COBLL1; (	Q53SF7; A0A0D9	COBL1_HUM	Oxidation (M)	0	0	0	253880	197470	288070	38070	0	0
TEIDKPSQMQVTDVQDNSISVK	FN1; FN1	P02751; H0Y7Z1	FINC_HUM	Oxidation (M)	2206000	1700400	937640	0	0	0	0	0	0
TEIDKPSQMQVTDVQDNSISVK	FN1; FN1	P02751; H0Y7Z1	FINC_HUM	Oxidation (M);Dea	0	1159300	4257600	106170	125560	140160	0	0	0
TEILPPFFK	SF3B1	O75533	SF3B1_HUM	Unmodified	2177900	1815800	1798100	10791	0	0	0	0	0
TEISDKITSELVSK	CKAP5	Q14008	CKAP5_HUM	Unmodified	3710600	3452000	4474400	43602	27528	33743	0	0	0
TEISVESK	TWF2; TWF2; TWF2	Q6IBS0; D6RG15	TWF2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TEITIVKPQESAHR	SEPTIN9; SEPTIN9;	Q9UHD8; K7EJ51	SEPT9_HUM	Unmodified	883790	0	865650	0	0	0	0	0	0
TEKQLEAIDQLHLEYAKR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	1385800	1141300	1745900	0	0	19034	0	0	0
TELDAHLENLLSK	SH3GLB1; SH3GLB1	Q9Y371; A0A087	SHLB1_HUM	Unmodified	379200	422320	326670	0	0	0	0	0	0
TELEDTLDSTAAQQELR	MYH9	P35579	MYH9_HUM	Unmodified	1669300	1323000	917630	0	0	13812	0	0	0
TELHGQLISVEK	SLTM; SLTM; SLTM	Q9NWH9; H7C3F	SLTM_HUM	Unmodified	0	1848200	2167700	67277	0	45964	0	0	0
TELISVSEVHPSR	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Unmodified	6553400	6364800	0	138440	276550	171460	11221	14343	19300
TELLPGDRDNLAIQTR	IGFBP7	Q16270	IBP7_HUM	Unmodified	896520	899750	842050	113400	111510	105180	64995	76791	62387
TELPQFVSYFQQR	TTLL12	Q14166	TTL12_HUM	Unmodified	1687800	1667100	1329200	0	0	0	0	0	0
TELQGLIGQLDEVSLEK	BAG5	Q9UL15	BAG5_HUM	Unmodified	399230	70098	168790	0	0	0	0	0	0
TELRPGETLNVNFLLR	C3	P01024	CO3_HUM	Unmodified	2020500	280690	2025500	0	0	0	0	0	0
TEMDWVLK	HNRNPF; HNRNPF	P52597; A0A1B0	HNRPF_HUM	Oxidation (M)	4379300	3843700	3397100	103560	73912	97638	0	0	0
TEMEDLMSSKDDVGK	MYH9	P35579	MYH9_HUM	2 Oxidation (M)	1863800	1992000	1294600	164900	147570	110740	0	0	0
TEMEDLMSSKDDVGK	MYH9	P35579	MYH9_HUM	2 Oxidation (M);M	1735400	1595800	1372100	175510	422720	156730	0	0	0
TEMEDLMSSKDDVGKSVHELEK	MYH9	P35579	MYH9_HUM	2 Oxidation (M)	2181300	1826900	1755100	0	70564	58070	0	0	0
TEMQDNTYPEILR	DHX15	O43143	DHX15_HUM	Oxidation (M)	0	1202800	805600	0	0	0	0	22497	0
TEMQDNTYPEILR	DHX15	O43143	DHX15_HUM	Oxidation (M);Met	0	0	3695400	0	0	0	0	0	0
TENLLGSYFPK	PSME1	Q06323	PSME1_HUM	Unmodified	1958800	1840200	2230500	0	0	0	0	0	0
TENNKAQASPSEENKANK	OTUD3	Q5T2D3	OTUD3_HUM	Methyl (KR);4 Dea	7671400	2040100	8662600	238430	692740	0	0	0	0
TENPLILIDEVDKIGR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM_HUM	Unmodified	1891800	1764200	1940700	0	0	0	0	0	0
TENPVIMGLSSQNGQLR	DDX6; DDX6	P26196; Q8IV96	DDX6_HUM	Oxidation (M);Dea	4264100	4159400	4349200	161650	187140	151190	69508	0	77039
TENRLIVENLSSR	SRSF5; SRSF5; SRSF	Q13243; B4DJK0;	SRSF5_HUM	Unmodified	1047600	0	604340	0	49256	0	0	0	0
TENSTSAPAAKPK	H1-0	P07305	H10_HUM	Deamidation (N)	1528500	1519800	1759700	909530	667910	473230	0	0	0
TENSTSAPAAKPKR	H1-0	P07305	H10_HUM	Acetyl (Protein N-t	3401400	3906100	0	788350	1041100	779690	233960	0	0
TENSTSAPAAKPKR	H1-0	P07305	H10_HUM	Acetyl (Protein N-t	0	0	2747800	2091000	2631300	2719500	467040	0	0
TEPAAEAEAASGPSESPSPPAAEELPGSHAEPPVPAQGEAPGEQAR	EIF3B	P55884	EIF3B_HUM	Unmodified	3976800	3160500	4035600	123280	126150	0	0	0	0
TEPLAANPFAASFAHLLNPAPPAR	CNOT11	Q9UKZ1	CNO11_HUM	Unmodified	0	593360	1051600	0	0	0	0	0	0
TEPTAQQNLALQLAEK	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL_HUM	Unmodified	3760300	4605100	4393200	49151	45375	14044	0	0	0
TEPTGPKLEALR	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	2701100	0	0	0	0	167760	0	0	0
TEQEEDEELLTESSK	SMARCA5	O60264	SMCA5_HUM	Unmodified	929240	1129600	734260	0	0	0	0	0	0
TEQGGAHFSVSSLAEGSVTSVGSVNPAENFR	XRCC5	P13010	XRCC5_HUM	Unmodified	2122300	1280400	3418000	0	0	0	0	0	0
TEQLGLTR	WDR12	Q9GZL7	WDR12_HUM	Unmodified	2032900	2529000	3032300	34900	41791	43980	0	0	0
TEQMTLRGTLK	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Acetyl (Protein N-t	2719700	3304400	2937600	509190	0	567800	108840	0	0
TEREQFVEFR	CALU; CALU	O43852; H0Y875	CALU_HUM	Unmodified	499380	443030	584050	0	0	54871	0	0	0
TESASVQGR	RRBP1; RRBP1; RRI	Q9P2E9; V9GY78	RRBP1_HUM	Unmodified	894670	601810	845710	240780	248230	204930	0	0	0
TESAVSQMQSVIELGR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
TESTPITAVK	COPG1	Q9Y678	COPG1_HUM	Unmodified	0	1867700	1671100	370160	291530	381760	11104	6274.2	6333.2
TESTPITAVKQPEK	COPG1	Q9Y678	COPG1_HUM	Unmodified	1784600	1682400	1459800	262960	0	218840	0	0	0
TETMNVVMETNK	TPR	P12270	TPR_HUMAN	2 Oxidation (M)	487190	353910	364250	0	0	0	0	0	0
TETQEKNPLPSK	TMSB4X	P62328	TYB4_HUMA	Unmodified	5549700	7162000	5879600	68324	64324	0	0	0	0
TETQEKNPLPSK	TMSB4X	P62328	TYB4_HUMA	Methyl (KR)	1525000	1083400	1125000	0	0	0	0	0	0
TETQEKNPLPSKETIEQEK	TMSB4X	P62328	TYB4_HUMA	Unmodified	49646000	42721000	46404000	1784900	739570	353550	0	0	0
TETQEKNPLPSKETIEQEK	TMSB4X	P62328	TYB4_HUMA	Methyl (KR)	5706800	4049800	6652700	0	0	0	0	0	0
TETQEKNPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	Unmodified	330160000	379310000	371810000	11128000	11057000	9981800	1096600	1156600	0
TETQEKNPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	Methyl (KR)	54209000	54411000	45451000	841730	1922500	759660	414700	352880	0
TETQEKNPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	2 Methyl (KR)	808160	2593100	2890300	90701	0	133580	36812	0	0
TETQEKNPLPSKETIEQEKQAGES	TMSB4X	P62328	TYB4_HUMA	Deamidation (N)	3434900	2688500	2364500	0	0	0	0	0	0
TETQEKNTLPTKETIEQEKR	TMSB10	P63313	TYB10_HUM	Unmodified	12912000	19553000	14259000	126890	125750	105250	0	0	0
TETQEKNTLPTKETIEQEKR	TMSB10	P63313	TYB10_HUM	Deamidation (N)	20680000	20380000	23737000	0	0	116110	0	0	0
TETVEEPMEEEEAAKEEK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M)	3874400	3415100	2751500	0	0	0	0	0	0
TETVEEPMEEEEAAKEEKEESDDEAAVEEEEEEK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M)	0	0	1110200	0	0	0	0	0	0
TETVTSFR	PRKDC	P78527	PRKDC_HUM	Unmodified	5906900	7054500	5704200	263120	229930	330780	0	0	0
TEVEQQRDLTSQFLK	NIBAN1	Q9BZQ8	NIBA1_HUM	Unmodified	2160600	2592900	2170700	96595	180760	161350	28326	23609	0
TEVIQLEDTLAQVR	RNF20; RNF40; RNF	Q5VTR2; O75150	BRE1A_HUM	Unmodified	743050	651170	899910	0	0	0	0	0	0
TEVLSEDLLQIER	ARHGAP17; ARHGA	Q68EM7; C9IZD3	RHG17_HUM	Unmodified	253300	157400	190400	0	0	0	0	0	0
TEVNYTQLVDLHAR	GPX4; GPX4; GPX4;	P36969; A0A087	GPX4_HUM	Unmodified	1349500	1336700	1023400	0	0	0	0	0	0
TEVVKNNLNPVWRPFK	CPNE3; CPNE3	O75131; A0A087	CPNE3_HUM	Deamidation (N)	1962600	2091500	2066100	0	12993	0	0	0	0
TEWETAAPAVAETPDIKLFGK	RPS5; RPS5; RPS5; F	P46782; M0R0R2	RS5_HUMAN	Acetyl (Protein N-t	3638300	3353500	3305400	0	0	0	0	0	0
TEWETAAPAVAETPDIKLFGK	RPS5; RPS5; RPS5; F	P46782; M0R0R2	RS5_HUMAN	Acetyl (Protein N-t	574890	231030	0	0	0	0	0	0	0

TEYEEAQDAIVK	MSH2; MSH2; MSH2	P43246; A0A2R8Y	MSH2	HUMA	Unmodified	732710	986900	671660	0	0	0	0	0	0
TEYKLVVVGAGGVGK	NRAS; KRAS; HRAS	P01111; P01116; I	RASN	HUMA	Acetyl (Protein N-t	0	0	0	0	118330	52989	0	29309	0
TEYLSNADER	DYNC1H1; DYNC1H	Q14204; A0A7P0T	DYHC1	HUM	Unmodified	1116600	1028600	960600	70369	65752	0	0	0	0
TEYLSNADERLR	DYNC1H1; DYNC1H	Q14204; A0A7P0T	DYHC1	HUM	Unmodified	3817700	3761800	3217300	0	0	0	0	0	0
TEYLSNADERLR	DYNC1H1; DYNC1H	Q14204; A0A7P0T	DYHC1	HUM	Deamidation (N)	3208900	3196600	3361000	58756	196850	176950	0	0	0
TEYRLIVENLSSR	SRSF6; SRSF4; SRSF	Q13247; Q08170;	SRSF6	HUM	Unmodified	751000	529620	589270	79374	54685	50214	0	47583	0
TFAPEEISAMVLTK	HSPA5; HSPA5; HSP	P11021; A0A7P0T	BIP	HUMA	Oxidation (M)	126040000	108010000	106900000	1795300	1827900	1577500	222110	270540	173250
TFCQLILDPIFK	EEF2	P13639	EF2	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TFDEIASGFR	SLC2A1	P11166	GTR1	HUM	Unmodified	4090800	3747300	2240700	50139	51914	0	0	0	0
TFDETVSTYVPLAQQVEDFHKR	TPX2	Q9ULW0	TPX2	HUMA	Unmodified	1578000	818740	1004800	0	0	0	0	0	0
TFDLEAMFEQTRR	WDR70; WDR70	Q9NW82; D6RIW	WDR70	HUM	Oxidation (M)	782000	606290	643800	23582	13311	0	0	0	0
TFDPTTSYVVEDLKPNTEYAFR	PTPRS; PTPRS	Q13332; G8JL96	PTPRS	HUM	Unmodified	394850	491770	293610	0	0	0	0	0	0
TFDQLTPEESKER	CALU	O43852	CALU	HUM	Unmodified	4710600	4151500	4037500	670510	431510	416430	0	0	0
TFDSIVMDPK	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM	Oxidation (M)	0	0	2592300	80309	0	0	0	0	0
TFDWAEFRPIQQALAQER	MPRIP; MPRIP; MPI	Q6WCQ1; J3KSW	MPRIP	HUM	Unmodified	519550	491120	0	0	0	0	0	0	0
TFDYKIPYTTVLR	SSRP1; SSRP1	Q08945; E9PMD4	SSRP1	HUM	Unmodified	821490	946830	957720	0	0	0	0	0	0
TFEDISEK	GSS; GSS; GSS; GSS	P48637; A0A2R8Y	GSHB	HUM	Unmodified	1000200	998840	829260	0	0	0	0	0	0
TFEDISEKGSLDQDRR	GSS; GSS; GSS; GSS	P48637; A0A2R8Y	GSHB	HUM	Unmodified	2521500	2469900	3005000	0	0	0	0	0	0
TFEEKLTPLLSVR	SRRT; SRRT	Q9BXP5; H7C3A	SRRT	HUM	Unmodified	2412800	1982700	1968900	0	0	0	0	0	0
TFEEKQGTEIDGR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	2158300	2596000	2148600	45798	0	69403	0	0	0
TFEELKKHEDSAIPR	CDC5L	O94959	CDC5L	HUM	Unmodified	2169800	2145400	1218600	47765	0	0	0	0	0
TFEEPPFEK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	1104900	0	1031800	0	0	0	0	0	0
TFEGIDPK	GDI2; GDI2; GDI2	P50395; Q5SX87;	GDIB	HUMA	Unmodified	13665000	16128000	14649000	1209800	1075000	1061000	30099	0	18338
TFEGIDPKK	GDI2; GDI2; GDI2	P50395; Q5SX87;	GDIB	HUMA	Unmodified	645810	504730	647930	57543	73773	70148	0	0	0
TFEGVDPQTTSMR	GDI1	P31150	GDIA	HUMA	Oxidation (M)	4065800	4256400	4289200	0	0	0	0	0	0
TFEHVTSEIGAEEAEEVGVEHLLR	PSMD7; PSMD7; PSI	P51665; H3BTM8	PSMD7	HUM	Unmodified	2210900	689970	1531200	0	0	0	0	0	0
TFEINPR	HSP90B2P; HSP90B1	Q58FF3; P14625;	ENPLL	HUM	Unmodified	106740000	103390000	96115000	2149700	2328400	3018700	168040	0	81725
TFEISDIGAK	COCH; COCH; COCI	O43405; A0A2U3	COCH	HUM	Unmodified	0	0	0	154270	140330	145960	0	0	0
TFEKIEEVSAR	LIG1; LIG1; LIG1; LI	P18858; B4E135;	DNLI1	HUM	Unmodified	656780	464020	0	0	0	0	14184	0	0
TFEMSDFIVDTR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Oxidation (M)	3676700	2375100	4238600	638570	573680	536190	75172	0	95379
TFESLVDFSK	HADH; HADH; HAD	Q16836; A0A1W2	HCDH	HUM	Unmodified	5783300	4751100	2183300	192520	261160	210010	10645	0	0
TFEVCDLPVR	COPB2; COPB2; COI	P35606; D6RCL6;	COPB2	HUM	Unmodified	1307400	1667800	916410	63258	51599	60059	0	0	0
TFEVTPIR	LBR; LBR; LBR	Q14739; A0A494	LBR	HUMA	Unmodified	4815400	4437500	4461300	116090	111150	132770	19235	19329	18994
TFFSFPAVVAPFK	GARS1; GARS1; GA	P41250; A0A6Q8	GARS	HUMA	Unmodified	692630	616720	837430	0	0	0	0	0	0
TFGENYVQELLEK	PLPBP; PLPBP; PLP	O94903; E5RFX7;	PLPHP	HUM	Unmodified	2673100	2755200	1687800	0	0	0	0	0	0
TFGENYVQELLEK	PLPBP; PLPBP; PLP	O94903; E5RFX7;	PLPHP	HUM	Deamidation (N)	119750	173270	2115300	0	0	0	0	0	0
TFGETHPFTK	LTA4H	P09960	LKHA4	HUM	Unmodified	663910	843510	991750	0	0	0	0	0	0
TFGGAPGFPLGSPLSSPVFPR	DES	P17661	DESM	HUM	Unmodified	0	0	0	18100	0	0	742690	27534	0
TFGPVYEGKDLIAQAR	DDX50	Q9BQ39	DDX50	HUM	Unmodified	2665500	2763900	2355500	72438	49748	0	0	0	0
TFGVSPLR	XP32	Q5T750	XP32	HUMA	Unmodified	1467500	1865000	828040	3743100	3699400	3615500	138460	0	151130
TFHDLEGNAVKR	ERMP1; ERMP1	Q7Z2K6; E7ER77	ERMP1	HUM	Deamidation (N)	517760	508510	113730	0	0	0	0	0	0
TFHDLEGNAVKR	ERMP1; ERMP1	Q7Z2K6; E7ER77	ERMP1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TFHFNTVEEVHSR	SERPINB1	P30740	ILEU	HUMA	Unmodified	700970	860920	473280	0	0	0	0	0	0
TFHHVYSGKDLIAQAR	DDX21	Q9NR30	DDX21	HUM	Unmodified	775630	945060	1351600	0	0	0	0	0	0
TFHIFYYLLSGAGEHLK	MYH9	P35579	MYH9	HUM	Unmodified	1089600	0	0	0	0	0	0	0	0
TFHTSSAAIGNQLYVFGGGER	RABEPK; RABEPK	Q7Z6M1; Q5T1S5	RABEK	HUM	Unmodified	0	344810	0	0	0	0	0	0	0
TFIAIKPDGVQR	NME1; NME2; NME	P15531; P22392;	NDKA	HUM	Unmodified	26096000	24640000	24384000	761600	811320	602740	85242	28255	23421
TFITQQGIK	AP2M1; AP2M1; AP	Q96CW1; C9JTK4	AP2M1	HUM	Unmodified	2164200	1202200	1880200	22315	0	0	0	0	0
TFKPIDLSDLK	MCRIP1; MCRIP1; M	C9JLW8; I3L2L5;	MCRI1	HUM	Unmodified	1138500	777020	985350	0	0	9754.8	0	0	0
TFKPIDLSDLKR	MCRIP1; MCRIP1; M	C9JLW8; I3L2L5;	MCRI1	HUM	Unmodified	896530	845840	863830	0	0	0	0	0	0
TFLAQHASL	ENY2	Q9NPA8	ENY2	HUMA	Unmodified	772820	0	733310	0	0	0	0	0	0
TFLEGFRLPGEAQK	ARFGEF2; ARFGEF2	Q9Y6D5; A0A7P0	BIG2	HUMA	Unmodified	172210	170590	187350	0	0	0	0	0	0
TFLQTVSSEK	MRPL53	Q96EL3	RM53	HUMA	Unmodified	1058400	1412400	888260	31676	0	51424	0	0	0
TFLQTVSSEKVR	MRPL53	Q96EL3	RM53	HUMA	Unmodified	1676500	2280600	0	95134	103780	0	0	0	0
TFLRPSPEDEAIYGPNTK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	1902300	4755400	5125200	337400	372910	469850	35282	63400	29101
TFLRPSPEDEAIYGPNTK	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Deamidation (N)	3329000	4019800	2213800	47661	121340	79362	0	0	0
TFLVGER	EEF1G	P26641	EF1G	HUMA	Unmodified	22437000	21968000	27183000	157130	162490	172970	0	13988	0
TFLVPEIK	CAMSAP3	Q9P1Y5	CAMP3	HUM	Unmodified	1987700	3398300	1572800	96490	88397	76345	0	0	0
TFNIKNDFTEEEEAQVR	SKP1; SKP1	P63208; E5RJR5	SKP1	HUMA	Deamidation (N)	3249500	2026500	1838200	21123	0	0	0	0	0
TFNLPLLMLGGGGYTIR	HDAC2	Q92769	HDAC2	HUM	Oxidation (M)	1872100	1814600	1685500	0	0	0	0	0	0
TFNLTAGSLESTEPIYVYK	PDXDC1; PDXDC1	Q6P996; H3BND4	PDXD1	HUM	Unmodified	4742600	0	3760500	0	0	0	0	0	0
TFNMDEYVGLPR	GNPDA2; GNPDA1;	Q8TDQ7; P46926	GNPI2	HUM	Oxidation (M)	886840	0	941320	73251	0	59537	0	0	0
TFNPGAGLPTDKK	SNRPA1; SNRPA1; S	P09661; H0YLR3	RU2A	HUMA	Unmodified	1405700	203620	0	0	0	131600	0	0	0
TFNTSTGGLLLPSDTK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	770000	942410	766570	0	0	0	0	0	0
TFNTSTGGLLLPSDTKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Unmodified	15385000	16950000	3810800	1345700	1420100	1060000	126800	0	28330
TFNTSTGGLLLPSDTKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6	HUM	Deamidation (N)	18523000	17682000	14577000	1056200	1233800	1171300	212330	218530	231170
TFPGCTIR	UBA2; UBA2	Q9UBT2; K7EPL2	SAE2	HUMA	Unmodified	2542100	2655100	2046600	206590	164100	122130	0	0	0
TFPGFFSPMLGEFVSETESR	FGA	P02671	FIBA	HUMA	Oxidation (M)	1033600	562530	1045600	0	0	0	0	0	0
TFPSAEDVVAR	PHF2	O75151	PHF2	HUMA	Unmodified	2981400	1207900	1514700	112630	123600	108420	0	0	0
TFPSGGEEEAKGDAHLRPTSLVQR	TNKS1BP1	Q9C0C2	TB182	HUM	Unmodified	704780	453950	955900	0	79396	81804	0	0	0
TFPTVNPTTGEVIGHVAEGDR	ALDH1B1; ALDH1B	P30837; A0A0U1	ALI1B1	HUM	Unmodified	1006700	1234100	798040	0	0	0	0	0	0
TFPTVNPTTGEVIGHVAEGDRADVDR	ALDH1B1; ALDH1B	P30837; A0A0U1	ALI1B1	HUM	Unmodified	0	3566100	2592900	0	0	0	0	0	0
TFPVLLR	PRKDC	P78527	PRKDC	HUM	Unmodified	10562000	8421800	9576200	205060	230330	187800	19595	17121	0
TFRDISEDLKSSVG	TMEM245; TMEM24	Q9H330; H7C0G1	TM245	HUM	Unmodified	0	0	0	342090	225590	0	104420	79515	83849
TFSEILNR	DYNC1H1; DYNC1H	Q14204; A0A7P0T	DYHC1	HUM	Unmodified	691670	1439300	908950	0	0	0	0	0	0
TFSFAIPLIEK	DDX21	Q9NR30	DDX21	HUM	Unmodified	1099000	0	813930	0	0	0	0	0	0
TFSFAIPLIER	DDX50	Q9BQ39	DDX50	HUM	Unmodified	2409800	2358400	2177800	0	0	0	0	0	0
TFSGQTHGFVHR	CMBL	Q96DG6	CMBL	HUM	Unmodified	0	929100	1032100	206470	0	113330	0	0	0
TFSHELSDFGLESTAGEIPVVAIR	PDIA3	P30101	PDIA3	HUM	Unmodified	15779000	6407000	12472000	0	0	26058	0	0	0
TFSNVFGR	KDM3B	Q7LBC6	KDM3B	HUM	Unmodified	1359000	1033400	582620	18090	56760	35648	0	0	0
TFSPTYGLLR	SYNM; SYNM; SYN	O15061; A0A075	SYNEM	HUM	Unmodified	0	0	0	0	0	0	247010	285810	280500
TFSQEVSR	CARMIL1	Q5VZK9	CARL1	HUM	Unmodified	1070600	1359900	3995000	83056	208440	337960	0	0	0
TFSSIPVSR	DYNC1H1; DYNC1H	Q14204; A0A7P0T	DYHC1	HUM	Unmodified	7060500	7506400	5959300	629480	719100	730080	62448	58933	42957
TFSSSALLMYLATR	LAMA2; LAMA2; LA	P24043; A0A087	LAMA2	HUM	Oxidation (M)	0	38102	39800	0	0	0	0	0	0
TFSSTESLR	GOLGA2; GOLGA2;	Q08379; H0Y7B8	GOGA2	HUM	Unmodified	1492800	1710400	1188400	95375	108580	0	0	0	0
TFSVWYVPEVTGTHK	FLNA; FLNA; FLNA;	P21333; A0A7I2V	FLNA	HUMA	Unmodified	1957700	2246300	1635600	0	0	0	0	0	0
TFSWASVTSK	G3BP1; G3BP1; G3B	Q13283; A0A7I2V	G3BP1	HUM	Unmodified	4278600	3770500	3515100	68202	0	56437	0	0	0
TFSYAGFEMQPK	CCT7	Q99832	TCPH	HUMA	Oxidation (M)	3606600	3362900	3177800	53025	72140	88192	0	0	0
TFSYPLDLLLK	TRAPPC4; TRAPPC	Q9Y296; G5EA23	TPPC4	HUM	Unmodified	335960	273050	243490	0	0	0	0	0	0
TFTCTAAYPESKTPLTATLSK	IGHA1; IGHA1	P01876; A0A286	IGHA1	HUM	Unmodified	848540	1184500	1354500	186850	163540	18135	49922	0	39644
TFTDHMLMVEWNDKGWGQPR	BCAT2; BCAT2; BC	O15382; B3KSI3;	BCAT2	HUM	2 Oxidation (M);De	0	718150	878780	0	0	0	0	0	0
TFTEMDSHEEKVFR	ARCN1; ARCN1; AR	P48444; Q6P1Q5	COPD	HUMA	Oxidation (M)	7011000	5506200	5532500	295850	271760	396410	53184	0	0
TFVEESIYNEFLER	ALDH1B1	P30837	ALI1B1	HUM	Unmodified	1355100	763840	1179100	0	0	0	0	0	0
TFVGAGLR	AGRN; AGRN; AGRI	O00468; A0A494	AGRIN	HUM	Unmodified	2082200	1515300	2265800	495900	460230	402140	27885	0	29962
TFVLEVMGR	PFKM; PFKP; PFKL;	P08237; Q01813;	PFKAM	HUM	Oxidation (M)	0	4276000	4354600	191670	0	272140	0	0	0
TFVNITPAEVGVLVGK	PFN1; PFN1	P07737; I3L3D5	PROF1	HUM	Deamidation (N)	1570000	1056700	1052700	0	0	0	0	0	0
TFVNITPAEVGVLVGK	PFN1; PFN1	P07737; I3L3D5	PROF1	HUM	Unmodified	17971000	12547000	15157000	65600	0	59152	143390	91468	96733
TFVNITPAEVGVLVGKDR	PFN1; PFN1	P07737; I3L3D5	PROF1	HUM	Unmodified	239760000	180200000	209470000	266300	61097	136200	240920	54881	66809
TFVNITPAEVGVLVGKDR	PFN1; PFN1	P07737; I3L3D5	PROF1	HUM	Deamidation (N)	4629500	6033700	4264500	0	0	0	0	0	0
TFVPKNERLHYLR	NSUN2	Q08J23	NSUN2	HUM	Deamidation (N)	1284900	802890	913080	0	0	0	0	0	0
TFVPQFQEAAFANGKL	BABAM2	Q9NXR7	BABA2	HUM	Deamidation (N)	484700	0	0	0	0	0	0	0	0
TFVQEDIYDEFVER	ALDH2; ALDH2	P05091; S4R3S4	ALDH2	HUM	Unmodified	1175500	1462300	0	0	0	0	24823	0	0
TFVQELER	MYO18A; MYO18A	Q92614; A0A0D9	MY18A	HUM	Unmodified	962360	801820	861350	26186	0	0	0	0	0
TFVSGACDASIK	GNB2; GNB2; GNB2	P62879; E7EP32;	GBB2	HUMA	Unmodified	979240	0	0	0	92209	144680	0	0	0
TFVEPGEEITYSCKPGYVSR	APOH; APOH	P02749; J3QRN2	APOH	HUM	Unmodified	1885800	1582100	1452500	0	0	36353	0	0	0
TFYGLHQDFPSVVLVGLGKK	LAP3	P28838	AMPL	HUM	Unmodified	4162400	3060500	3598700	0	0	0	0	0	0
TFYQMYDK	IARS2	Q9NSE4	SYIM	HUMA	Oxidation (M)	532010	1250100	813400	0	0	0	0	0	0
TFYQMYDKGLVYR	IARS2	Q9NSE4	SYIM	HUMA	Oxidation (M)	1949300	925290	1783000	142810	91516	144310	14794	13435	0
TFYVQADSPEEMHSWIK	PLEKHA1; PLEKHA	Q9HB21; Q5RGS	PKHA1	HUM	Oxidation (M)	1078900	1765800	891320	0	0	0	0	0	0
TGAAPIIDVVR	RPL27A; RPL27A; R	P46776; E9PJD9;	RL27A	HUM	Unmodified	10830000	9731900	9682000	155880	126880	159030	0	0	0
TGADTTAAGPLFQQRPYPSPGAVLR	PQBP1; PQBP1	O60828; H7C053	PQBP1	HUM	Unmodified	26340000	25686000	21404000	257450	78123	0	50984	38164	45983
TGAEGAVLDEAK	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN1	HUMA	Unmodified	2903800	3748300	2787600	0	0	0	0	0	0
TGAEGAVLDEAKNINK	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN1	HUMA	Unmodified	1827200	1625500	0	0	0	0	0	0	0
TGAFEPAEASVNPQDLQGSLQELK	NLE1; NLE1; NLE1	Q9NVX2; A0A0A	NLE1	HUMA	Unmodified	0	744520	0	0	0	0	0	0	0
TGAFSIPVIQIVYETLKDQQEGKK	DDX1; DDX1; DDX1	Q92499; A0A7I2V	DDX1	HUMA	Unmodified	831570	236200	716780	0	0	0	0	0	0
TGAIIPELER	NT5DC2; NT5DC2	Q9H857; H7C519	NT5D2	HUM	Unmodified	2648200	2295900	1052900	0	0	43340	0	0	0
TGAIIPELEREIR	NT5DC2; NT5DC2	Q9H857; H7C519	NT5D2	HUM	Unmodified	904620	226350	1057600	0	0	0	0	0	0
TGAIIPELR	NT5DC3	Q86UY8	NT5D3	HUM	Unmodified	1879500	1758600	1220900	21624	17705	0	0	0	0
TGAIVDVPVGEELLGR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA	HUMA	Unmodified	72487000	87295000	85504000	187790	141870	118990	35331	119230	0
TGALLQGFIQDR	BAX	Q07812	BAX	HUMA	Unmodified	12803000	13718000	12251000	36184	25161	19493	0	13632	15347
TGASPQQAQEEFSQGIFSSR	SCAMP2	O15127	SCAM2	HUM	Unmodified	1389000	980920	0	0	0	0	29152	0	0
TGAVGDLVIGDR	AARS2	Q5JTZ9	SYAM	HUM	Unmodified	679310	633090	563860	29969	0	24158	0	0	0
TGAVYVAEIGAK	NHLRC3; NHLRC3	Q5JS37; C9J973	NHLC3	HUM	Unmodified	704880	0	420240	0	0	0	0	0	0
TGAYQYTIR	NUP210	Q8TEM1	PO210	HUM	Unmodified	1900800	1438300	1280500	126690	161410	97037	0	0	0
TGDDSAALLGELAR	TMEM102	Q8N9M5	TM102	HUM	Unmodified	0	603690	739080	16709	16296	0	0	0	0
TGDGKILYSQCGDVMR	MYL6; MYL6; MYL	P60660; G8JLA2;	MYL6	HUM	Oxidation (M)	1783900	2038600	0	0	0	0	0	0	0
TGDLGDINAEQLPGREHLNEPGTR	PLAA; PLAA	Q9Y263; E5RIM3	PLAP	HUMA	Unmodified	4839400	0	0	0	0	78483	0	0	0
TGDMESQRDLSLVPER	TBCC	Q15814	TBCC	HUMA	Oxidation (M)	1341000	1208700	1202300	76356	46284	58966	0	0	41483
TGDPQETLR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	0	0	0	169430	167830	205460	0	0	0
TGDVEDSTVLK	FAF1; FAF1	Q9UNN5; B1ANN	FAF1	HUMA	Unmodified	0	1498200	0	0	0	33485	0	0	0
TGDVVETFILHSSSPSVR	TRIO; TRIO; TRIO	O75962; E7EPJ7;	TRIO	HUMA	Unmodified	1042300	1017900	871840	0	0	0	0	0	0
TGEAIVDAALSALR	PDIA6	Q15084	PDIA6	HUM	Unmodified	7018300	5726400	6842900	10141	0	0	31164	0	0

TGEAYVQFEEPEMANQALLK	GRSF1; GRSF1; GRS	Q12849; H0Y8R1;	GRSF1	HUM	Oxidation (M)	2742000	1462700	3021300	0	0	0	0	0	0
TGEEDKKINEELESQYQQSMDSK	SMAP; C11orf58; C1	O00193; E9PM92;	SMAP	HUM	Oxidation (M)	5051300	4113900	4183100	71937	123500	94519	0	0	0
TGEEIFGTIGMRPNAK	PRMT1; PRMT1	Q99873; E9PKG1	ANM1	HUM	Oxidation (M);Deam	802200	816440	2462400	0	17916	0	0	0	0
TGEEIFGTIGMRPNAK	PRMT1; PRMT1	Q99873; E9PKG1	ANM1	HUM	Oxidation (M)	1311000	703050	1277300	30061	29213	0	0	0	0
TGEEINFGK	MRE11; MRE11	P49959; F8W7U8	MRE11	HUM	Unmodified	1345700	1741400	1835900	44859	73227	0	0	0	0
TGEEVGFVVDAK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	301820	0	1743600	485620	391650	392500	0	0	0
TGEMSGPVFTDSGIHIILR	PIN1; PIN1	Q13526; K7EN45	PIN1	HUM	Oxidation (M)	8783700	7565300	6359400	23715	0	0	33516	0	26249
TGEMSGPVFTDSGIHIILRTE	PIN1; PIN1	Q13526; K7EN45	PIN1	HUM	Oxidation (M)	1830700	1043200	1422500	0	0	0	0	0	0
TGENVEDAFLEAAK	RAB14; RAB14	P61106; X6RFL8	RAB14	HUM	Unmodified	5088600	4100300	3831800	162250	0	159100	0	14420	15682
TGENVEDAFLEAAKK	RAB14; RAB14	P61106; X6RFL8	RAB14	HUM	Unmodified	10831000	9334100	8581900	334740	289460	0	36868	36932	0
TGETGIEETILEGHLGVTK	USP9X	Q93008	USP9X	HUM	Unmodified	1520700	995110	1444900	0	0	0	0	0	0
TGEVGPLGER	COL5A3	P25940	COL5A3	HUM	Unmodified	0	495900	0	97199	177120	176900	0	0	0
TGEYPVPLIR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	9857000	9040500	9749100	147700	135390	168910	0	0	0
TGEYPVPLIRR	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Unmodified	1502800	1302900	1616400	0	0	0	0	0	0
TGFFEFQAAK	LARS1; LARS1; LAR	Q9P2J5; A0A6B9	SYLC	HUM	Unmodified	475450	0	0	0	0	0	0	0	0
TGFINLDKPSNPSSHEVVAWIR	DKC1; DKC1; DKC1	O60832; H7C0M1	DKC1	HUM	Unmodified	837640	679270	839800	0	0	0	0	0	0
TGFLEIDEHMR	PPM1A; PPM1A; PP	P35813; E9PJN3;	PPM1A	HUM	Oxidation (M)	1206200	1834200	1932600	133680	103760	108960	0	0	0
TGFLKIDEYMR	PPM1B; N/A; PPM1E	O75688; A0A3B3	PPM1B	HUM	Oxidation (M)	732730	678730	610870	0	19762	25222	0	0	0
TGFQAVTGK	EIF2S2	P20042	IF2B	HUM	Unmodified	1041800	1236700	1103700	0	43292	50356	0	0	0
TGFSSDQIEQLHR	TESC; TESC	Q96BS2; E9PQ58	CHP3	HUM	Unmodified	784220	456090	502260	0	0	0	0	0	0
TGFSTSPESPYTHWK	PRMT1; PRMT1	Q99873; E9PKG1	ANM1	HUM	Unmodified	5651500	4390200	6384200	138230	94728	133630	0	0	0
TGGLEIDSDFGGFR	AIFM1; AIFM1; AIFM	O95831; E9PMA0	AIFM1	HUM	Unmodified	1447200	0	1016200	0	0	0	0	14362	0
TGGMAFHSYFMEAIAPPLLQELK	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	2 Oxidation (M)	1161000	685000	949230	0	0	0	0	0	0
TGGMAFHSYFMEAIAPPLLQELKK	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	2 Oxidation (M)	3744200	3375600	3591900	0	0	0	0	0	0
TGGPAYGPSSDVSTASETESEKREEPNR	FXR2	P51116	FXR2	HUM	Unmodified	626900	1812100	755050	0	0	0	0	0	0
TGGQVPDTNYIFMGDFVDR	PPP6C; PPP6C	O00743; Q5T1S7	PPP6	HUM	Oxidation (M)	333320	244630	95447	0	0	0	0	0	0
TGGTVSDQALLFGDDDAGEGPSSLIR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24	HUM	Unmodified	6531300	5880300	5480100	0	0	0	23995	0	0
TGHIAAGTSTNGIKFK	AGA	P20933	ASPG	HUM	Deamidation (N)	815840	913930	629400	0	0	0	0	0	0
TGHPGTVGPAGIR	COL1A2; COL1A2	P08123; A0A087	CO1A2	HUM	Unmodified	428610	0	0	74594	135450	121490	21222	0	17772
TGHSLLHTLYGR	SDHA; SDHA; N/A	P31040; D6RFM5	SDHA	HUM	Unmodified	1864600	2405900	1951200	152210	0	0	0	0	0
TGIDLGTTGR	RBM39; RBM39; RB	O14498; G3XAC6	RBM39	HUM	Unmodified	15476000	7252800	8441400	593700	458640	547300	0	0	0
TGIEQGSDAGYLCESQK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	1640000	0	936540	0	0	0	0	0	0
TGILQEAK	SYNPO2; SYNPO2	Q9UMS6; H0Y9Y	SYNP2	HUM	Unmodified	941750	0	689590	28113	29012	37632	74826	0	0
TGIPFSQMIFFDDERR	MDP1; NEDD8-MDP	Q86V88; E9PL57	MGDP1	HUM	Oxidation (M)	1301200	1206600	971850	0	0	0	0	0	0
TGISDVFAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	24313000	29619000	26278000	0	632690	0	0	29879	0
TGISDVFAKNDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	22893000	17705000	19070000	11342	0	13667	0	0	0
TGISDVFAKNDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Methyl (KR)	2069900	1544300	1897300	0	0	0	0	0	0
TGISDVFAKNDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Deamidation (N)	147380000	18752000	126480000	80137	40582	46461	71966	30075	0
TGISDVFAKNDLAVVDVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Methyl (KR);Deam	13164000	11823000	9807800	0	0	0	0	0	0
TGISHGHTVYVVHDGFEGLAK	PFKL	P17858	PFKAL	HUM	Unmodified	5855100	5434200	4626700	0	0	0	0	0	0
TGIYEEK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	24369000	26778000	27192000	0	0	1506600	0	0	0
TGKPMINLYTDKDTGKPK	TAF15; TAF15	Q92804; A0A075	RBP56	HUM	Oxidation (M)	3109500	3239800	1378300	117420	0	98929	0	0	0
TGKPMINLYTDKDTGKPK	TAF15; TAF15	Q92804; A0A075	RBP56	HUM	Oxidation (M);Deam	0	2737900	1266100	0	0	0	0	0	0
TGKVDNIQAGELTEGIWR	SSRP1	Q08945	SSRP1	HUM	Unmodified	2567000	588810	1696200	0	0	0	0	0	0
TGLEDPER	MYH10; MYH10	P35580; E7ERA5	MYH10	HUM	Unmodified	1606400	0	0	0	152420	119790	0	0	0
TGLEDPERYLFVDR	MYH10; MYH10	P35580; E7ERA5	MYH10	HUM	Unmodified	8350300	8791400	7130200	92097	96155	63125	103250	77966	76730
TGLIDYNQLALTAR	SHMT2; SHMT2; SH	P34897; G3V5L0;	GLYM	HUM	Unmodified	2135600	1623300	2317800	0	0	0	0	22306	12617
TGLIIGKGGETIK	FUBP1; FUBP1	Q96AE4; E9PEB5	FUBP1	HUM	Unmodified	1827300	2187000	2089800	107050	109360	115780	0	0	0
TGLIKGSGTAEVELK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	1432100	1091900	363940	27690	0	0	0	0	0
TGLIKGSGTAEVELKK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Unmodified	14862000	18291000	13995000	291280	168860	245690	100720	129470	95776
TGLIKGSGTAEVELKK	PKM; PKM; PKM; PI	P14618; H3BQ34;	KPYM	HUM	Methyl (KR)	4051200	5140000	5611500	80606	137060	0	0	0	0
TGLIPSNYVAEQAESIDNPLHEAAK	OSTF1	Q92882	OSTF1	HUM	Unmodified	5026100	3497000	5502800	0	0	0	0	0	0
TGLIPSNYVAEQAESIDNPLHEAAKR	OSTF1	Q92882	OSTF1	HUM	Unmodified	0	1363200	1509700	0	0	0	0	0	0
TGLIPSNYVAEQAESIDNPLHEAAKR	OSTF1	Q92882	OSTF1	HUM	Deamidation (N)	855080	1184600	422990	0	0	0	0	0	0
TGLLSFEESQR	LSG1; LSG1	Q9H089; F8WFC6	LSG1	HUM	Unmodified	1438100	1505700	2303300	68456	56710	68193	18964	0	0
TGLQEVEVK	C3	P01024	CO3	HUM	Unmodified	1434900	1470700	1543700	23630	44970	0	0	0	0
TGLVEFAR	ATIC; ATIC	P31939; F8WEF0	PUR9	HUM	Unmodified	957340	682540	771340	0	0	0	0	0	0
TGLYNYYDDEKEK	SERPINH1; SERPINI	P50454; E9PR70;	SERPH	HUM	Unmodified	1157700	925420	1019500	60119	68143	73694	0	0	0
TGMILLAGEITSR	MAT2A	P31153	METK2	HUM	Oxidation (M)	3283300	3144300	2873600	181460	157420	180390	32237	29562	0
TGMVNFSFLNTMKP	LRRC74A	Q0VAA2	LR74A	HUM	Oxidation (M);Deam	1784900	1863800	1828900	0	0	0	22323	12868	0
TGNFISTSTSLPR	UTP18	Q9Y5J1	UTP18	HUM	Unmodified	1404400	1063000	939170	53527	39328	32578	0	0	0
TGNFISTSTSLPR	UTP18	Q9Y5J1	UTP18	HUM	Deamidation (N)	0	1263900	0	33424	0	24846	0	0	0
TGNQHFGYLYGR	NPLOC4	Q8TAT6	NPL4	HUM	Deamidation (N)	592250	386810	422200	0	11161	0	0	0	0
TGNQHFGYLYGR	NPLOC4	Q8TAT6	NPL4	HUM	Unmodified	843210	1162800	1225600	26864	0	20867	0	0	0
TGNSEKETALPSTK	FIP1L1; N/A	Q6UN15; A0A0B4	FIP1	HUM	Deamidation (N)	1254500	1535600	837620	72168	0	37711	0	0	0
TGPAGAAGAR	COL2A1	P02458	CO2A1	HUM	Unmodified	64557	41682	0	436120	443850	439910	49267	41078	148730
TGPFEDLKENLIR	SYK	P43405	KSYK	HUM	Unmodified	726120	764200	591060	0	0	0	0	0	0
TGPPMGSR	EIF4H; EIF4H; EIF4H	Q15056; A0A7Z	IF4H	HUM	Oxidation (M)	3100900	3145500	4033400	528950	606880	490650	64061	0	60898
TGPPSYAKDDEVICTSFYSK	LAMA2; LAMA2; LA	P24043; A0A087	LAMA2	HUM	Unmodified	0	0	0	302310	241680	151720	45326	0	36461
TGPTVTQVK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUM	Unmodified	569040	679100	534070	0	0	0	0	0	0
TGPVTLHTQTAIHFAEQIAK	RTCA	O00442	RTCA	HUM	Unmodified	573440	0	708970	0	0	0	0	0	0
TGQAAELGGLLK	PSMD11; PSMD11	O00231; J3QRY4	PSD11	HUM	Unmodified	899640	757120	1217300	0	0	0	0	0	0
TGQALLTHLYQSSAR	ELAVL3	Q14576	ELAV3	HUM	Unmodified	2137400	2140000	2187800	0	0	0	0	0	0
TGQATVASGIPAGWMGLDCGPESSK	PGK1	P00558	PGK1	HUM	Oxidation (M)	2168500	3330800	1851300	0	0	0	0	0	0
TGQATVASGIPAGWMGLDCGPESSKK	PGK1	P00558	PGK1	HUM	Oxidation (M)	5329300	3891700	5102200	74370	0	0	0	0	0
TGQAVAVR	CTBP2	P56545	CTBP2	HUM	Unmodified	1887100	2276700	4056000	117830	128190	34720	0	0	0
TGQEIPVNVR	CNDP2; CNDP2; CN	Q96KP4; J3QRH4	CNDP2	HUM	Unmodified	7670300	8054900	7695000	949220	913400	1170900	0	0	29831
TGQEYKPGNPPAEIGQNISSNSSASILESK	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUM	Deamidation (N)	1296600	817280	1140400	0	0	0	0	0	0
TGQPDLLGTGTLGPSPTATGTLGR	EVA1B	Q9NVM1	EVA1B	HUM	Unmodified	341920	314230	323890	71898	0	0	32123	18304	0
TGQPMIHIYLDK	EWSR1; EWSR1; EW	Q01844; H7BY36	EWS	HUM	Oxidation (M)	797960	631700	583420	0	0	0	16220	0	0
TGQPMIHIYLDKETGKPK	EWSR1; EWSR1; EW	Q01844; H7BY36	EWS	HUM	Oxidation (M)	2098500	4051800	4441500	466300	178170	450020	0	0	0
TGQPMINLYTDRETGK	FUS; FUS	P35637; H3BPE7	FUS	HUM	Oxidation (M)	12675000	10040000	12098000	404340	344270	479500	0	0	0
TGQPMINLYTDRETGK	FUS; FUS	P35637; H3BPE7	FUS	HUM	Oxidation (M);Deam	1796800	1833800	1628800	0	52654	36295	0	0	0
TGQPMINLYTDRETGKLKGEATVSFDDPPSAK	FUS; FUS	P35637; H3BPE7	FUS	HUM	Oxidation (M)	0	1408800	2163200	0	0	0	0	0	0
TGQRAQENYEGSEEVSPPQTKDQ	USP9X	Q93008	USP9X	HUM	Unmodified	0	0	0	231670	0	217640	0	0	0
TGRTGMLPANYIEFVN	NEBL	O76041	NEBL	HUM	Oxidation (M)	0	0	0	16249	26347	21482	135350	99759	28631
TGRVMLGETNPADSKPGTIR	NME2P1; NME1; NN	O60361; P15531;	NDK8	HUM	Oxidation (M)	693800	871670	968990	0	0	0	0	0	0
TGSAVAPVHPPNR	PELP1; PELP1; PEL	Q8IZL8; I3L445;	PELP1	HUM	Unmodified	1173600	1297100	1577600	97876	125480	159360	0	0	0
TGSAVPRELLEKLIESR	THOP1; THOP1; THO	P52888; K7EL32;	THOP1	HUM	Unmodified	1847100	1184600	1476700	0	0	0	0	0	0
TGSGGVASSSESNR	SF3A2; SF3A2	Q15428; K7EMT0	SF3A2	HUM	Unmodified	234260	252930	343300	16776	0	0	0	0	0
TGSGIGNLQR	PKP4	A0A0D9SF60	A0A0D9SF60	Unmodified		0	0	0	50118	64346	63297	0	0	0
TGSISSSVSVPAKPER	ZC3H14; ZC3H14; ZI	Q6PJT7; H0YJA2;	ZC3HE	HUM	Unmodified	2282800	1697400	1078400	107710	95372	0	0	0	0
TGSLEEMTQR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Oxidation (M)	1454600	950660	1378000	29884	0	25283	0	0	0
TGSMSKQELDDILK	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUM	Oxidation (M)	3863200	2434900	1891700	62127	48262	49422	0	0	0
TGSNEFKLNQPPEDGISSVK	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUM	Acetyl (Protein N-t	1391200	1483100	0	131280	82269	0	0	0	0
TGSNEFKLNQPPEDGISSVK	BUB3; BUB3; BUB3	O43684; J3QT28;	BUB3	HUM	Acetyl (Protein N-t	1301000	0	0	102620	80237	75200	0	0	0
TGSPGPELLFHEGQQKR	ZMYM3; ZMYM3; Z	Q14202; A6NHN7	ZMYM3	HUM	Unmodified	792370	427860	352740	0	0	47074	0	0	0
TGSPGSPGAGGVQSTAK	DYNC1LI2; DYNC1I	O43237; J3KRZ2;	DC1L2	HUM	Unmodified	707360	713440	646670	0	44131	51195	0	0	0
TGSPTFVR	PHF8; PHF8; PHF8; I	Q9UPP1; Q5JPR8	PHF8	HUM	Unmodified	1270900	1269600	1357900	0	0	0	0	0	0
TGSQEGTSMEGSRPAAPAEPGTLK	HID1	Q8IV36	HID1	HUM	Oxidation (M)	605860	553520	635070	142490	173080	0	0	50691	0
TGSQGQCTQVR	RPS28	P62857	RS28	HUM	Unmodified	313100	290470	44209	12935	0	68668	0	0	0
TGSQGQCTQVRVEFMDDTSR	RPS28	P62857	RS28	HUM	Oxidation (M)	819320	732340	882690	0	0	0	0	0	0
TGSQYDIQDAIDK	DSP	P15924	DESP	HUM	Unmodified	0	1515800	0	0	0	0	0	0	0
TGSQYDIQDAIDKGLVDRK	DSP	P15924	DESP	HUM	Unmodified	2538200	2071100	2464000	0	0	0	0	0	0
TGSSFSVR	ACOT8; ACOT8; AC	O14734; E9PJN0;	ACOT8	HUM	Unmodified	0	0	0	44254	37572	40428	0	0	0
TGSVGIGNLQR	PKP4	Q99569	PKP4	HUM	Unmodified	329730	0	447600	183160	214600	225000	0	25670	29817
TGSVGRNRAEASLER	SAE1; SAE1; SAE1; I	Q9UBE0; B3KNJ4	SAE1	HUM	Deamidation (N)	4962200	5857800	5679800	0	0	0	0	0	0
TGTAEMSSILEER	ATP5F1A; ATP5F1A	P25705; K7ERX7:	ATPA	HUM	Oxidation (M)	23396000	34728000	20420000	1286200	1900900	1601000	19182	0	0
TGTAYTFFTPNNIK	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUM	Unmodified	1204100	815080	1223100	0	0	0	0	0	0
TGTAYTFFTPNNIK	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUM	Deamidation (N)	4388600	5386000	3770700	21659	26313	0	0	0	0
TGTAYTFFTPNNIKQVSDLISVLR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUM	Deamidation (N)	321700	0	240180	0	0	0	0	0	0
TGTAYTFFTPNNIKQVSDLISVLR	DDX5; DDX5; DDX5	P17844; A0A0G2	DDX5	HUM	Unmodified	177850	0	0	0	0	0	0	0	0
TGTDKTLVK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	0	4751300	9490800	0	0	0	0	0	0
TGTDKTLVKEVVQNFAK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	18702000	19753000	17356000	0	0	0	0	0	0
TGTELVSR	CBFA2T2	O43439	MTG8R	HUM	Unmodified	957950	445080	417980	0	0	0	0	0	0
TGTIALSEVENIHQK	CRYBG3	Q68DQ2	CRBG3	HUM	Unmodified	870080	916310	1280800	49649	58856	0	0	0	0
TGTITTFEHAHNMR	EEF2	P13639	EF2	HUM	Oxidation (M)	10819000	10777000	11467000	0	194080	282640	0	0	0
TGTITTFEHAHNMR	EEF2	P13639	EF2	HUM	Oxidation (M);Deam	4461200	4840600	4378700	53337	26771	53521	0	0	0
TGTITTFEHAHNMRVMK	EEF2	P13639	EF2	HUMAN	2 Oxidation (M)	2205900	1713700	2739000	0	0	0	0	0	0
TGTIVVEGHELHDEDIR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUM	Unmodified	1162200	1235400	1357900	56907	0	54755	0	0	0
TGTLTTNQMSVCR	ATP2A2; ATP2A3; A	P16615; Q93084;	ATA2	HUM	Oxidation (M)	926550	1257000	1217300	0	0	0	0	0	0
TGTQYLLR	SERPINB6; SERPINE	P35237; P50452;	SPB6	HUM	Unmodified	965070	971160	1263900	0	0	0	0	0	0
TGTVSLEVR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Unmodified	9586900	6620800	7102800	557040	624970	618060	79139	0	0
TGVAVNKPAEFTVDAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Unmodified	18058000	14145000	19249000	1773000	2006600	2058200	4737800	4594400	4279700
TGVAVNKPAEFTVDAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Methyl (KR)	1274600	1612500	1641200	552290	469090	418210	599650	602920	0
TGVELGKPTHFTVNAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Unmodified	1619300	2960300	1983900	243790	317710	360560	381910	218290	224580
TGVELGKPTHFTVNAK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Deamidation (N)	2138100	2238200	635150	211590	497380	142730	0	143720	139380
TGVLAAVLASQPSIPR	REPS1; REPS1; REP	Q96D71; H0YDT(	REPS1	HUM	Unmodified	1861500	1632300	1696300	0	0	0	0	0	0
TGVLTVASYR	P4HA2	O15460	P4HA2	HUM	Unmodified	1757600	871280	923190	0	0	0	0	0	0
TGVQTFR	COPA; COPA; COPA	P53621; A0A3B3	COPA	HUM	Unmodified	2093700	2014400	2200600	167790	166550	199760	0	0	0
TGVVPQLVK	KPNA2; KPNA2; KP	P52292; A0A7Z	IMA1	HUM	Unmodified	1366900	1053600	0	0	0	0	0	0	0
TGWISTSSIWK	IARS2	Q9NSE4	SYIM	HUM	Unmodified	1901100	1521300	1241300	0	0	0	0	0	0

TGVGGGFNER	ZRANB2	O95218	ZRAB2_HUM	Unmodified	469310	321880	354760	0	0	0	0	0	0
TGVGVEELISALQR	NOA1	Q8NC60	NOA1_HUM	Unmodified	225000	204180	155170	0	0	0	0	0	0
TGYNFQR	PLRG1	O43660	PLRG1_HUM	Unmodified	1928600	1634100	1770200	0	77048	110530	0	0	0
TGYTLDVTTGQR	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR_HUM	Unmodified	60592000	60768000	56955000	2729000	1710200	1897400	71705	0	103560
TGYTLDVTTGQRK	HNRNPR; SYNCRIP;	O43390; O60506;	HNRPR_HUM	Unmodified	31328000	26315000	33227000	957250	1508600	1123400	144220	84981	21047
THAYGWESEAAMER	NFS1; NFS1; NFS1;	Q9Y697; A2A2M	NFS1_HUMA	Oxidation (M)	1086400	1863800	1960900	0	0	0	0	0	0
THDHQLESSLSPVEVFAK	DSN1; DSN1	Q9H410; Q5JW53	DSN1_HUMA	Unmodified	0	437420	1436400	0	0	0	0	0	0
THEAQIQEMR	MYH9	P35579	MYH9_HUM	Oxidation (M)	0	8730100	2876500	0	0	0	0	0	0
THEDIEAQIR	SF3B1; SF3B1; SF3B	O75533; B4DGZ4	SF3B1_HUM	Unmodified	1023500	3500500	3116400	0	48427	43864	0	0	0
THEDIEAQIREIQGK	SF3B1; SF3B1; SF3B	O75533; B4DGZ4	SF3B1_HUM	Unmodified	4566300	4547200	4169300	58662	0	0	0	0	0
THEDIEAQIREIQGKK	SF3B1; SF3B1; SF3B	O75533; B4DGZ4	SF3B1_HUM	Unmodified	2556800	1813800	2402200	60603	63274	0	0	0	0
THFLMPFPVNYVGECIR	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP_HUMA	Oxidation (M)	1086000	849480	920450	0	0	0	0	0	0
THFNKGPSYGLSAEVK	CNN3	Q15417	CNN3_HUMA	Acetyl (Protein N-t	3022700	2605100	3341900	0	0	0	0	0	0
THFNKGPSYGLSAEVK	CNN3	Q15417	CNN3_HUMA	Acetyl (Protein N-t	1339400	1495500	1215900	34130	26710	36055	10644	0	0
THGMLPGLEPFSHYTLNVR	NRCAM; NRCAM; N	Q92823; C9JYY6;	NRCAM_HUM	Oxidation (M)	1030700	689640	998780	0	0	0	34507	0	0
THHNDTELIR	GMPS	P49915	GUAA_HUM	Deamidation (N)	1029600	853210	0	26359	0	0	0	0	0
THILLFLPK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	468610	411520	603620	0	0	0	0	0	0
THLGTGMER	PTK2; PTK2; PTK2;	Q05397; E5RG54;	FAK1_HUMA	Oxidation (M)	236700	183970	0	9958.5	0	0	0	0	0
THLPGFVEQAEALK	PRDX5	P30044	PRDX5_HUM	Unmodified	6846500	8405000	5944600	24368	25054	24411	0	17528	13735
THLPGFVEQAEALKAK	PRDX5	P30044	PRDX5_HUM	Unmodified	1473000	1151700	1487300	0	0	0	0	0	0
THLSLSHNPEQK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	4766300	4634600	9599300	121260	112090	110350	0	0	0
THMQDLKDVTNNVHYENYR	SEPTIN7; SEPTIN7; :	Q16181; E7EPK1;	SEPT7_HUM	Oxidation (M);Deam	4916500	4902800	3660300	357010	302850	281870	0	0	0
THMQNIKDITSSIHFEAYR	SEPTIN9	Q9UHD8	SEPT9_HUM	Oxidation (M)	8506300	9661000	8583400	0	0	0	0	0	0
THMTHHAVSDHEATLR	HLA-A; HLA-A; HLA	Q9GJ45; Q53Z42;	Q9GJ45_HUM	Oxidation (M)	1008700	1014600	903950	0	0	0	0	0	0
THMVVANTMEDFQK	EPRS1	P07814	SYEP_HUMA	2 Oxidation (M)	2202400	1053900	1049900	0	0	0	0	0	0
THNGESVSYLFSHVPL	PRPS2; PRPS1; PRP	P11908; P60891;	PRPS2_HUM	Deamidation (N)	17474000	14071000	13877000	0	0	0	0	0	0
THPVEIFYTPEPERDYLEAAIR	DHX15	O43143	DHX15_HUM	Unmodified	7852100	1608900	1284800	0	0	0	0	0	0
THPVPMGTPTPLEPLVALLGMPEEGPA	ZNF668	Q96K58	ZN668_HUM	2 Oxidation (M)	432910	0	394460	0	0	0	0	0	0
THQALGILSK	TMPO	P42166	LAP2A_HUM	Unmodified	978990	1032900	1074600	0	0	0	0	0	0
THQDLSITAK	SLC25A18	Q9H1K4	GHC2_HUMA	Acetyl (Protein N-t	0	0	0	85360	85600	75827	0	0	0
THSDQFLVAFK	ATP5F1C	P36542	ATPG_HUMA	Unmodified	801490	783870	535840	0	0	0	0	0	0
THSDSKPYGPMSVGLDFSLPGMEHVYGIPEHADNLR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUM	2 Oxidation (M)	5678700	2916100	4373900	0	0	0	0	0	0
THSLVCPETVSR	NR2C2AP; NR2C2AI	Q86WQ0; F5H0B4	NR2CA_HUM	Acetyl (Protein N-t	0	692490	907540	0	0	0	0	0	0
THSTSSSLGSGESPFSR	NDRG3; NDRG3; NI	Q9UGV2; F8WBF	NDRG3_HUM	Unmodified	1004500	1015500	830620	147950	97237	0	15876	0	0
THSVNGITEEADPTIYSGK	CSDE1; CSDE1	O75534; E9PLT0	CSDE1_HUM	Deamidation (N)	2158400	1353000	1414500	0	0	0	0	0	0
THTCPPCPAPELLGGPSVFLFPPKPK	IGHG1; IGHG1; IGH	P01857; A0A0A0	IGHG1_HUM	Unmodified	0	0	1365200	0	0	0	0	0	0
THTQDAVPLTLGQEFSGYVQQVK	FH	P07954	FUMH_HUM	Unmodified	17218000	12550000	15680000	0	0	0	0	0	0
THVADFAPEVAWVTR	EPRS1	P07814	SYEP_HUMA	Unmodified	3156600	2803700	3312000	0	0	0	0	15320	0
THYSELTTLTSQYIK	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2336800	1200700	1341700	0	0	0	0	0	0
THYSNIEANESEEVR	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1_HUM	Unmodified	2906900	2807800	2668800	0	0	0	0	0	0
THYSNIEANESEEVR	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1_HUM	Deamidation (N)	0	0	559570	0	0	0	0	0	0
THYSNIEANESEEVRQFR	CAPNS1; CAPNS1; C	P04632; A0A0C4	CPNS1_HUM	Unmodified	1417200	1789000	1673900	0	0	0	0	0	0
TIAATPIQTLPQSQSTPK	POU2F1; POU2F1	P14859; A0A0C4	PO2F1_HUM	Unmodified	1819800	2542700	2592700	264130	275360	222590	0	0	32430
TIAECLADELINAAK	RPS5; RPS5; RPS5; F	P46782; M0R0R2	RS5_HUMAN	Unmodified	702680	461020	710590	0	0	0	0	0	0
TIAEIFGNPNYLR	PSMD5	Q16401	PSMD5_HUM	Unmodified	1049800	1067900	849520	0	0	0	0	0	0
TIAEQLAEKINAK	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Unmodified	980610	939660	796690	0	0	0	0	0	0
TIAFLLPMFR	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46_HUM	Oxidation (M)	1416500	1392000	1942200	0	0	0	0	0	0
TIAGIIYENYLLSR	SBNO1	A3KN83	SBNO1_HUM	Unmodified	319410	251490	306270	0	0	0	0	0	0
TIAIIAEGIPEALTR	ACLY	P53396	ACLY_HUMA	Unmodified	1703700	2075800	2002800	0	0	0	0	0	0
TIALNGVEDVR	TIMM50; TIMM50; T	Q3ZCQ8; M0R2F	TIM50_HUM	Deamidation (N)	1538700	1362500	1249500	0	0	0	0	0	0
TIAMDGTEGLVR	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	64519000	62369000	64653000	3858500	3883700	4308300	0	48939	64413
TIAMDGTEGLVRGQK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	749580	4265800	5672300	0	0	771920	245630	392930	0
TIAPALVSK	ENO1; ENO1; ENO1;	P06733; K7ER58;	ENOA_HUMA	Unmodified	225130000	284470000	224980000	849320	564430	724730	105920	83491	104540
TIAPIIGR	CDC5L	Q99459	CDC5L_HUM	Unmodified	6581200	6032600	5409300	308320	289820	322390	35325	40559	48342
TIAPQNAPR	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	9032400	8921100	8449800	672220	768430	676520	0	0	76620
TIAPQNAPRDESR	BCLAF1; BCLAF1; E	Q9NYF8; E9PK91	BCLF1_HUM	Unmodified	3697100	3784900	3246800	1030200	2536900	1725700	3729400	0	0
TIAPTGHLHTVEHQQR	TRMT61A; TRMT61	Q96FX7; H0Y2Q1	TRM61_HUM	Unmodified	1370700	986360	1275000	0	0	0	0	0	0
TIAQAVYGAK	MTHFD1L; MTHFD1	Q6UB35; A0A087	C1TM_HUM	Unmodified	611180	672350	759140	0	0	0	0	0	0
TIAQGNLSNTDVQAAK	UQCRC2; UQCRC2	P22695; H3BKG4	QCR2_HUM	Unmodified	2062300	2103800	1713300	0	0	0	0	0	0
TIATSQNR	PHB2; PHB2; PHB2	Q99623; J3KPX7;	PHB2_HUM	Unmodified	5587100	4627200	6174100	320500	210040	279860	0	0	0
TIAVDFASEDIYDKIK	HSD17B12; HSD17B	Q53GQ0; E9PF21;	DHB12_HUM	Unmodified	1082200	624630	693100	0	0	0	0	0	0
TIAYGVIHDPSGGPVSLDFVK	SARDH; SARDH	Q9UL12; Q5SYV7	SARDH_HUM	Unmodified	306250	251320	243350	0	0	0	0	0	0
TIDDLEDK	TPM3; TPM3	J3KN67; A0A087	J3KN67_HUM	Unmodified	0	471170	0	0	0	0	0	0	0
TIDDLEDKLK	TPM3; TPM3	J3KN67; A0A087	J3KN67_HUM	Methyl (KR)	1777700	2396200	2153500	86203	81401	88758	0	0	0
TIDDRIVHELNTTVPTASFAGK	MIX23; MIX23; MIX	Q4VC31; C9JQ41	MIX23_HUM	Unmodified	1629100	1591100	705570	0	0	0	0	0	0
TIDEHDAII	TMEM123; TMEM12	Q8N131; E9PKT4	PORIM_HUM	Unmodified	2766000	0	2619200	1752300	1974900	1707900	0	25744	0
TIDEVVEK	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP_HUMA	Unmodified	1205900	0	1114100	15295	0	0	0	0	0
TIDLGAAAHYTGDK	CLINT1	Q14677	EPN4_HUMA	Unmodified	778120	722560	775940	42498	50335	39942	0	13278	0
TIDNADSSTLHAVTFLR	NUP43	Q8NFH3	NUP43_HUM	Unmodified	5717200	4369200	5386900	90676	29654	48352	0	15275	0
TIDNADSSTLHAVTFLR	NUP43	Q8NFH3	NUP43_HUM	Deamidation (N)	3263600	4970200	3035000	0	0	0	0	0	12381
TIDPELLGK	GNS; GNS; GNS; GN	P15586; H7C3P4;	GNS_HUMAN	Unmodified	4283200	4044200	2255900	149390	186520	112120	0	0	0
TIDWVAFAEIIPQNQK	ATP5PD; ATP5PD	O75947; F5H608	ATP5H_HUM	Unmodified	0	224230	522050	0	0	0	0	0	0
TIDYNPSVIK	WDR33; WDR33	Q9C0J8; B9A053	WDR33_HUM	Unmodified	1081100	628390	659680	0	0	0	0	0	0
TIEAEAAHGTVTR	IDH2; IDH2	P48735; H0YL11	IDHP_HUMA	Unmodified	2802000	3029800	3419500	0	0	0	0	0	0
TIEDAIAVLSVAEEAADR	CCDC124	Q96CT7	CC124_HUM	Unmodified	263690	186360	0	0	0	0	0	0	0
TIEDAIAVLSVAEEAADRHPER	CCDC124	Q96CT7	CC124_HUM	Unmodified	6387700	6216200	6810500	0	0	0	0	0	0
TIEDDLVSALVR	PUS1; PUS1; PUS1; I	Q9Y606; F5H1B2	TRUA_HUM	Unmodified	402390	1715600	2809600	0	0	0	0	0	0
TIEESEETLKNTK	SMC2	O95347	SMC2_HUM	Unmodified	722690	991340	823860	0	0	0	0	0	0
TIEEVTDLQTDHQLR	C8orf37	Q96NL8	CH037_HUM	Unmodified	871500	770760	809860	0	0	19886	0	0	0
TIEEYAVCPDLK	PGM1; PGM1	P36871; A0A3B3I	PGM1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TIEKFEK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Unmodified	10475000	13745000	18958000	0	1401100	0	0	0	0
TIEKFEKEAAEMGK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Oxidation (M)	28445000	27633000	22587000	1202500	1303600	2005800	57769	0	0
TIEKFEKEAAEMGK	EEF1A2; EEF1A1P5;	Q05639; Q5VTE0	EF1A2_HUM	Oxidation (M);Metl	1457000	1841300	1631500	80960	64920	0	0	0	0
TIESETVR	TIMM44; TIMM44; T	O43615; M0QXU7	TIM44_HUM	Unmodified	1917700	0	2586200	0	0	0	0	0	0
TIETRDGEVVSEATQQQHEVL	DES	P17661	DESM_HUM	Unmodified	0	0	0	0	0	21061	6100100	5063000	4816800
TIEVLQLQDQGSK	MRPL48; MRPL48	Q96GC5; F5H702	RM48_HUMA	Unmodified	1565600	1749300	1209800	0	24690	0	0	0	0
TIEYLEEVAITFAK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	374030	0	125910	0	0	0	0	0	0
TIEYLQPNPASR	SH3GL2; SH3GL1; S	Q99962; Q99961;	SH3G2_HUM	Unmodified	5523000	6641100	6053600	0	116810	0	0	0	0
TIFAYFTGSK	TXNDC17; TXNDC1	Q9BRA2; I3L3M7	TXD17_HUM	Unmodified	8298300	4269900	6011600	37291	40358	20258	0	6903.2	0
TIFAYFTGSKDAGGK	TXNDC17; TXNDC1	Q9BRA2; I3L3M7	TXD17_HUM	Unmodified	490350	706300	547440	0	10154	17258	0	0	0
TIFPLFMK	CTNNBL1; CTNNBL	Q8WYA6; A0A08	CTBL1_HUM	Oxidation (M)	0	2332000	0	0	0	0	0	0	0
TIFQGIAAK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Unmodified	54031000	48830000	58004000	446880	434060	419150	12036	13499	0
TIFVLTK	OPA1; OPA1; OPA1;	O60313; E5KLJ9;	OPA1_HUMA	Unmodified	645900	812370	592670	0	0	13918	0	0	0
TIGGGDDSFNTFFSETGAGK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	95329000	88023000	87665000	724360	597770	376190	138970	127170	101790
TIGGGDDSFNTFFSETGAGK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	53685000	54438000	53903000	604530	518260	460360	0	14760	17194
TIGGGDDSFNTFFSETGAGKHVPR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	36854000	26259000	26405000	235760	287410	169570	107960	51583	53638
TIGGGDDSFNTFFSETGAGKHVPR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	58550000	64294000	49670000	736630	376020	0	245350	18537	132460
TIGGGDDSFNTFFSETGAGKHVPR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Methyl (KR)	4860700	3282400	2328300	0	0	0	0	0	0
TIGGGDDSFNTFFSETGAGKHVPR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Methyl (KR);Deam	1511900	1181200	1630800	0	0	0	0	0	0
TIGIIGAPFSK	ARG1; ARG1	P05089; A0A5F9	ARGI1_HUM	Unmodified	823730	1003600	798410	552750	500880	485520	0	32381	38119
TIGIIGAPFSKGQPR	ARG1; ARG1	P05089; A0A5F9	ARGI1_HUM	Unmodified	0	0	0	199420	180210	135510	25596	17820	23384
TIGISVDPR	RPL13; RPL13	P26373; J3QSB4	RL13_HUMA	Unmodified	25519000	21248000	25084000	1430300	1331400	1406500	0	146070	0
TIGQVLAR	TP53RK	Q96S44	PRPK_HUMA	Unmodified	2009600	1647700	2080200	0	9318.1	0	0	0	0
TIGTGLVTNTLAMTEEEK	TUFM	P49411	EFTU_HUMA	Oxidation (M)	5257600	1989800	3970900	29792	15070	0	0	0	11889
TIGTGLVTNTLAMTEEEK	TUFM	P49411	EFTU_HUMA	Oxidation (M);Deam	1667000	1467700	1124200	110880	221080	128050	0	0	0
TIGTGLVTNTLAMTEEEKNIK	TUFM	P49411	EFTU_HUMA	Oxidation (M)	3877400	4922100	6689800	0	0	0	0	0	0
TIGTGLVTNTLAMTEEEKNIK	TUFM	P49411	EFTU_HUMA	Oxidation (M);Deam	794910	3061000	3530200	49874	47083	35162	0	0	0
TIGTGLVTNTLAMTEEEKNIKWG	TUFM	P49411	EFTU_HUMA	Oxidation (M)	2709300	2592100	2956700	0	0	0	0	0	0
TIGVDFLER	RAB23	Q9ULC3	RAB23_HUM	Unmodified	2008100	602610	3334000	86924	112720	112210	36071	17047	11495
TIHGLIYNALKLFMEMNQK	PPP2R5D; PPP2R5C;	Q14738; Q13362;	2A5D_HUMA	2 Deamidation (N)	0	0	0	138450	0	190780	0	0	0
TIHGVGEMMTQMVLSR	ITPR2	Q14571	ITPR2_HUM	3 Oxidation (M)	1182000	692260	834920	0	95172	0	0	0	0
TIIFVETK	DDX17; DDX17; DD	O92841; A0A1X7	DDX17_HUM	Unmodified	7274600	5764200	5798800	327320	351750	369410	0	0	0
TIIGSFNGALAAVPVQDLGSTVIK	ACAT2	Q9BWD1	THIC_HUMA	Deamidation (N)	977080	0	633990	0	0	0	0	0	0
TIIGSFNGALAAVPVQDLGSTVIKEVLKR	ACAT2	Q9BWD1	THIC_HUMA	Deamidation (N)	477310	0	0	0	0	0	0	0	0
TIIIGHSSGAIAAMR	RBBP9	O75884	RBBP9_HUM	Oxidation (M)	569050	742290	410250	0	0	0	0	0	0
TIIMWK	RACK1; RACK1; RA	P63244; D6RAU2	RACK1_HUM	Oxidation (M)	917070	0	1314300	0	0	0	0	0	0
TIIPLISQCTPK	MDH2; MDH2	P40926; G3XAL0	MDHM_HUM	Unmodified	3652000	2899900	4197100	0	0	0	0	11229	0
TIIQKEPIDLR	L1CAM	P32004	L1CAM_HUM	Unmodified	1177400	535800	904260	0	0	0	0	0	0
TIIQNPTDQQK	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4_HUM	Unmodified	4123700	3585600	3188100	0	0	0	0	0	0
TIIQNPTDQQKK	PA2G4; PA2G4	Q9UQ80; F8VR77	PA2G4_HUM	Unmodified	1080200	1100600	1382900	54065	0	49274	0	0	0
TIISLDTSQMNR	AGPS; AGPS; AGPS;	O00116; A0A7P0	ADAS_HUMA	Oxidation (M)	988840	1277000	1164200	0	43504	51813	0	0	0
TIISVIDEQFER	SEPTIN2; SEPTIN2; :	Q15019; C9JZU3;	SEPT2_HUM	Unmodified	3618200	2308600	4121100	0	0	0	0	0	0
TIIVTTR	OGT	O15294	OGT1_HUM	Unmodified	3494600	2411900	1933900	131740	80277	110690	0	0	0
TIKMFAIEEEGMIER	N/A	N/A	N/A	Oxidation (M)	2704300	271780	1192700	95599	109230	121220	0	0	0
TIKRTDEEGKDVPDHAVLEMK	HNRNPUL1; HNRNP	Q9BUJ2; B7Z4B8	HNRL1_HUM	Oxidation (M)	855320	1020100	736750	0	49250	0	0	0	0
TILDKVKLDSPAGTALSPSGHTK	PYCR1; PYCR1	P32322; E2QRB3	P5CR1_HUM	Unmodified	2746800	1551400	1838900	0	0	0	0	0	0
TILERNNFTDFTNVR	HINT3	Q9NQE9	HINT3_HUM	Deamidation (N)	491980	355540	457550	27178	0	0	0	0	0
TILGPTENIK	PMPCB; PMPCB; PA	O75439; G3V0E4;	MPPB_HUM	Unmodified	4962500	4678600	3906000	189120	179980	249960	0	0	0
TILLSTTDPADFAVAEALEK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD_HUM	Unmodified	1184000	240300	0	0	0	0	0	0	0
TILMMGR	EEF2	P13639	EF2_HUMAN	2 Oxidation (M)	21684000	24939000	22931000	1764600	1536700	924250	0	87813	0
TILPAAAQDVYYR	RPN1; RPN1	P04843; B7Z4L4	RPN1_HUMA	Unmodified	3178700	3901100	3348600	0	0	0	0	0	0
TILSLMTR	ACLY	P53396	ACLY_HUMA	Oxidation (M)	2964800	2626800	2641000	181210	201020	194450	0	0	26970

TILTTSHAFPYIK	DOCK7; DOCK7	Q96N67; A0A1B0	DOCK7	HUM	Unmodified	478850	509560	415530	0	0	0	0	0	0
TIMVDDSK	TLN1	Q9Y490	TLN1	HUMA	Oxidation (M)	873950	1331700	101460	58765	54660	0	0	0	0
TINEVENQILTR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Deamidation (N)	10586000	10168000	8195800	364630	362100	299850	23934	0	17184
TINEVENQILTR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	22353000	23250000	19609000	400280	367610	291410	148220	165830	133360
TINEVENQILTR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	2 Deamidation (N)	0	0	1848500	0	0	0	0	0	0
TINEVENQILTRDAK	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Unmodified	6108900	4972800	4378100	188720	169910	150300	47579	0	0
TINEVENQILTRDAK	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4	HUM	Deamidation (N)	620440	633530	1271000	184830	0	159180	0	0	0
TINEVENQILTRDAKGISQEQMQEFR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M)	2946600	2151700	0	0	0	0	0	0	0
TINEVENQVLTR	ACTN3; ACTN3	Q08043; A0A087	ACTN3	HUM	Methyl (KR);2 Dea	1170800	1600700	0	90465	88862	127640	0	0	0
TINEVENQVLTRDAK	ACTN3; ACTN3	Q08043; A0A087	ACTN3	HUM	Methyl (KR);2 Dea	0	0	0	0	0	0	0	0	0
TINKAWVESR	CACYBP	Q9HB71	CYBP	HUMA	Unmodified	5119400	5759800	4746500	311420	99503	160920	0	14828	15960
TINKAWVESR	CACYBP	Q9HB71	CYBP	HUMA	Deamidation (N)	782570	2434500	2016300	0	0	0	0	0	0
TINLYPLTNYTFGTK	NUDT21	O43809	CPSF5	HUM	Unmodified	2539300	2265800	3254400	0	0	0	0	0	0
TINLYPLTNYTFGTK	NUDT21	O43809	CPSF5	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
TINLYPLTNYTFGTKEPLYEK	NUDT21	O43809	CPSF5	HUM	Deamidation (N)	1504000	0	0	0	0	0	0	0	0
TINLYPLTNYTFGTKEPLYEK	NUDT21	O43809	CPSF5	HUM	Unmodified	0	0	2714600	0	0	0	0	0	0
TINLYPLTNYTFGTKEPLYEKDSSVAAR	NUDT21	O43809	CPSF5	HUM	Deamidation (N)	3128400	3539000	621500	0	0	0	0	0	0
TINLYPLTNYTFGTKEPLYEKDSSVAAR	NUDT21	O43809	CPSF5	HUM	Unmodified	22900000	14755000	15222000	0	0	0	0	0	0
TINLYPLTNYTFGTKEPLYEKDSSVAAR	NUDT21	O43809	CPSF5	HUM	2 Deamidation (N)	968800	0	1714100	0	0	0	0	0	0
TINVEFAK	RBM10	P98175	RBM10	HUM	Unmodified	675020	694350	0	0	0	0	0	0	0
TIPGKQQLLIGAYAK	CCT7	Q99832	TCPH	HUMA	Unmodified	8679100	11441000	9913600	72611	72736	68384	0	0	0
TIPGTALVEMGDEYAVER	HNRNPLL; HNRNPL	Q8WVV9; C9JYN	HNRLL	HUM	Oxidation (M)	0	2493400	1437400	36998	42211	37754	0	0	0
TIPHMSWTAGDLVALGV	TBCD	I3L0V3	I3L0V3	HUM	Oxidation (M)	1072700	0	0	0	0	0	0	0	0
TIPSWATLSASQLAR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Unmodified	14073000	10316000	11635000	217000	177300	105860	61504	0	41568
TIPWLEDR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	1562200	839760	795050	0	0	10334	0	0	0
TIPWLEDRVPQK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Unmodified	1853900	1553100	2057800	0	0	0	0	0	0
TIQAPTQVPVVVSPR	ELF1; ELF1	P32519; A0A0U1	ELF1	HUMA	Unmodified	683820	0	499120	214340	0	278650	0	0	0
TIQEMQQK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4	HUM	Oxidation (M)	1834300	2068500	1893700	36157	37811	51116	0	0	0
TIQFVDWCPTGFK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C	HUM	Unmodified	23712000	17616000	20479000	18760	12667	14493	0	0	0
TIQGDEEDLR	NAPA; NAPA; NAPA	P54920; M0R213;	SNAA	HUMA	Unmodified	3595600	3587500	4131700	357780	319640	372520	0	0	0
TIQGHLQSENFK	U2SURP; U2SURP	O15042; E7ET15	SR140	HUM	Unmodified	2445600	1690500	1156200	0	0	0	0	0	0
TIQTAESLGVPYEQWK	PFKFB2	O60825	F262	HUMA	Unmodified	3330100	2234600	2863700	0	0	0	0	0	0
TIQTIALITYLMEHK	SMARCA4; SMARC;	P51532; P51531;	SMCA4	HUM	Oxidation (M)	375820	0	580690	0	0	0	0	0	0
TIQVDNTDAEGR	LAP3	P28838	AMPL	HUM	Unmodified	759230	1257400	980260	73899	0	0	0	0	0
TIQVSDFVR	FKBP9	O95302	FKBP9	HUM	Unmodified	5291300	4721700	3621600	174880	168730	145330	24719	24304	0
TIRDIIALNPLYR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM	HUM	Unmodified	816110	652350	568000	0	0	0	0	0	0
TIRDLEVVEGSAAR	MYLK	Q15746	MYLK	HUM	Unmodified	0	0	0	90444	75836	229840	660420	981080	842980
TIRPMDMETIEASVMK	PDHB; PDHB	P11177; C9J634	ODPB	HUMA	3 Oxidation (M)	4258100	3700500	5008500	161550	46494	0	0	0	0
TIRYPDPLIK	RPS4Y2; RPS4X	Q8TD47; P62701	RS4Y2	HUM	Unmodified	1152800	1076600	1336400	39549	52592	37772	0	0	0
TISAQNMDILQNPLMIK	NAGA	P17050	NAGAB	HUM	2 Oxidation (M)	2074300	2357000	1443500	0	0	0	0	0	0
TISETIER	TARS1	P26639	SYTC	HUMA	Unmodified	10703000	9200400	9767900	32200	33088	39428	0	0	0
TISETIERLQQLKEFR	TARS1	P26639	SYTC	HUMA	Unmodified	2747300	4065000	3955600	0	0	0	0	0	0
TISNPEVVMKR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUMA	Oxidation (M)	1258400	1462900	1324800	147970	147080	206490	0	0	0
TISPAESTALLQGR	CENPC; CENPC	Q03188; H0Y8J2	CENPC	HUM	Unmodified	723830	0	1006900	0	0	0	0	0	0
TISPMVMDAK	VCL	P18206	VINC	HUMA	2 Oxidation (M)	598910	958570	496670	63127	70994	0	0	0	0
TISQTSAPVWDESASFLIR	ESYT1	Q9BSJ8	ESYT1	HUM	Unmodified	3664400	666140	0	0	0	0	0	0	0
TISSDAVLQRLPEEAR	LLGL2; LLGL2	Q6P1M3; J3QRV5	L2GL2	HUM	Unmodified	1546200	1097700	1239000	22496	0	0	0	0	0
TISTSDPAEVLVK	MTDH; MTDH	Q86UE4; E5RJU9	LYRIC	HUM	Unmodified	0	3454900	3153700	233170	0	0	0	0	0
TISTSDPAEVLVKNSQPIK	MTDH; MTDH	Q86UE4; E5RJU9	LYRIC	HUM	Deamidation (N)	2398900	2498500	1700800	154530	180000	135870	0	0	0
TITELGEK	DLST	P36957	ODO2	HUMA	Unmodified	30170000	29228000	29133000	530430	559850	506690	0	0	0
TITEYAR	PYGB; PYGB	P11216; H0Y4Z6	PYGB	HUMA	Unmodified	0	5400800	6325300	252290	303010	0	0	19930	17915
TITGFQTHTTPVLLAHGER	PSMD2	Q13200	PSMD2	HUM	Unmodified	5780900	5335500	5529800	193700	184010	0	0	0	0
TITKQVPNESFNFFNPLK	NAP1L4; NAP1L4	Q99733; H0YCI4	NP1L4	HUM	Methyl (KR)	606080	395250	0	0	0	0	0	0	0
TITNLQQQIQQHQR	TNRC6C; TNRC6C	Q9HCJ0; A0A1B0	TNR6C	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TITSSYYR	RAB1C; RAB1A; RA	Q92928; P62820;	RAB1C	HUM	Unmodified	13460000	11101000	5453200	0	0	741400	49292	0	0
TITTAYYR	RAB3D; RAB8B; RA	O95716; Q92930;	RAB3D	HUM	Unmodified	0	3788400	3808500	251630	241160	0	23680	0	0
TITVVQR	RBM22	Q9NW64	RBM22	HUM	Unmodified	1795700	1863600	2109300	0	0	0	0	0	0
TIVEAASDEER	HPF1	Q9NWY4	HPF1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TIVEELLADSEFR	DNTTIP2	Q5QJE6	TDIF2	HUMA	Unmodified	200730	77509	95805	0	0	0	0	0	0
TIVEELLADSEFRR	DNTTIP2	Q5QJE6	TDIF2	HUMA	Unmodified	986580	0	838050	0	0	0	0	0	0
TIVFVETK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	Unmodified	14333000	12636000	11779000	265280	292150	295530	0	0	0
TIVITSHPGQIVK	DNAJA1	P31689	DNJA1	HUM	Unmodified	16061000	19949000	16672000	342640	201260	288520	0	19434	0
TIVMGASFR	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Oxidation (M)	5141500	4303000	4274300	159610	63627	46418	0	0	0
TIVQLENEIYQIK	BCAS2	O75934	SPF27	HUM	Unmodified	1712800	1367400	1576900	0	0	0	0	0	0
TIVTDVFQGSMR	USP39; USP39; USP3	Q53GS9; A0A087	SNUT2	HUM	Oxidation (M)	567460	1800300	1686000	0	0	19497	0	0	0
TIVYWGIGR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUMA	Unmodified	5255500	4432900	3337400	19167	22981	15045	0	0	0
TKAIEHADGGVAAGVAVLDNPYPV	GSS; GSS	P48637; A0A2R8	GSHB	HUM	Unmodified	3166800	4612500	3960100	0	16757	0	38660	0	26211
TKDDIIEFAHR	TMX3	Q96JJ7	TMX3	HUM	Unmodified	0	0	703460	0	0	0	0	0	0
TKDDIIICEIGDVFK	SAMM50	Q9Y512	SAM50	HUM	Unmodified	372400	407960	662750	0	0	0	0	0	0
TKDDLEQLTTEIK	STX3; STX3; STX3;	Q13277; A0A286	STX3	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TKDEPQRETLK	CD9; CD9; CD9; CD	P21926; A0A7I2V	CD9	HUMA	Unmodified	2145600	1921000	1502300	97671	91033	111180	0	0	0
TKDEYLINSQTTEHIVK	IARS2	Q9NSE4	SYIM	HUMA	Unmodified	1089500	1231200	2155400	0	0	0	0	0	0
TKDGQILPVPNVVVR	RCC2	Q9P258	RCC2	HUMA	Unmodified	2821100	2218200	1963800	0	14141	0	0	0	0
TKDGQILPVPNVVVR	RCC2	Q9P258	RCC2	HUMA	Methyl (KR)	1574600	667230	1151700	0	0	0	0	0	0
TKDGVVEITGKHEERQDEHGYISR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	3953200	6320800	2202100	0	0	128220	0	0	0
TKDIEDVFYK	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Unmodified	29747000	37038000	30322000	862620	754670	1059800	0	46007	0
TKDIEDVFYKYGAIRDIDLK	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Unmodified	1316000	1299700	886370	0	0	0	0	0	0
TKDLPVTEAVFSALVTGHAR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	11949000	14798000	11385000	0	0	0	0	0	0
TKDLPVTEAVFSALVTGHAR	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Methyl (KR)	840140	533110	785580	0	0	0	0	0	0
TKEEALELINGYIQK	PIN1; PIN1; PIN1	Q13526; K7EN45	PIN1	HUMA	Deamidation (N)	9095900	8935300	8583400	88052	68506	69672	0	16010	6925.9
TKEELEAEKR	TPR	P12270	TPR	HUMA	Unmodified	2066500	339640	2986300	112990	80933	69015	0	0	0
TKEELEAEKRDLIR	TPR	P12270	TPR	HUMA	Unmodified	1174900	1436400	1207900	81867	146530	92026	0	0	0
TKENILEEFSK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	1964600	1992000	1460300	0	0	0	0	0	0
TKEQIENLLR	PGM2L1	Q6PCE3	PGM2L	HUM	Unmodified	0	617250	569150	0	0	0	0	0	0
TKEQILEEFSK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	Unmodified	724520	712000	666210	0	0	0	0	0	0
TKEQLGYIVFSGPR	IDE; IDE; IDE; IDE; I	P14735; A0A7I2V	IDE	HUMA	Unmodified	1828300	0	1236700	0	11206	89028	0	0	0
TKEVYELLDSPGK	PAICS; PAICS	P22234; E9PBS1	PUR6	HUMA	Unmodified	3665700	4643700	4194400	22539	16911	27829	0	0	0
TKFPAEQYYR	TSN; TSN; TSN	Q15631; H7C1D4	TSN	HUMA	Unmodified	1243200	0	0	0	0	0	0	0	0
TKGHLDAELDAYMAQTDPETND	CHTOP; CHTOP	Q9Y3Y2; X6R700	CHTOP	HUM	Oxidation (M)	2712300	2336800	3824500	440020	264380	207830	77617	83506	108100
TKGVDEVTIVNILTNR	ANXA2; ANXA2; AN	P07355; H0YNB8	ANXA2	HUM	Unmodified	2215500	0	2434300	41212	14693	0	36954	0	12398
TKIDWNKILSYK	CAPZA2; CAPZA1	P47755; P52907	CAZA2	HUM	Unmodified	1107900	1004500	948970	0	0	0	0	0	0
TKKQELSEAEQATR	C3	P01024	CO3	HUMA	Unmodified	7949500	6870100	7282500	525770	1017100	633420	137680	0	193760
TKLDDLALLEDLEKQR	PRPF4B	Q13523	PRP4B	HUM	Unmodified	1145700	720020	1055300	0	0	0	0	0	0
TKLVLPSLISSR	SELENBP1; SELENB	Q13228; A6PVX1	SBP1	HUMA	Unmodified	496620	388710	532450	245920	78928	0	0	0	0
TKNALDPMSVLLAR	PRCP; PRCP; PRCP;	P42785; B7Z7Q6;	PCP	HUMAN	Oxidation (M);Dea	2972600	3245800	3738700	72684	206330	262220	0	15421	12961
TKNALDPMSVLLAR	PRCP; PRCP; PRCP;	P42785; B7Z7Q6;	PCP	HUMAN	Oxidation (M)	323680	504120	0	148430	131070	139590	0	0	0
TKPADMVIEAYGHGQR	PLPBP; PLPBP; PLP	O94903; E5RFZ4;	PLPHP	HUM	Oxidation (M)	11378000	8710000	3619100	174390	69515	162290	0	0	0
TKPIWTRNPDDITNEEYGEFYK	HSP90AA1	P07900	HS90A	HUM	Unmodified	7106800	6512400	7294800	0	0	0	0	0	0
TKPIWTRNPDDITQEEYGEFYK	HSP90AB1	P08238	HS90B	HUM	Unmodified	2649300	9620700	10058000	0	0	0	0	0	0
TKPPEGYDTVTLYPKA	PDLIM3; PDLIM3; P	Q53GG5; A0A087	PDLI3	HUM	Unmodified	0	0	0	28836	22888	26578	819770	964670	898360
TKPPLAPGTILYEAELSQFSEDIK	NIBAN1	Q9BZQ8	NIBA1	HUM	Unmodified	400820	323740	0	0	0	0	0	0	0
TKPPLAPGTILYEAELSQFSEDIKK	NIBAN1	Q9BZQ8	NIBA1	HUM	Unmodified	3226500	2046800	3199800	0	0	0	0	0	0
TKPQMQEERRAK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M);2 M	1679700	1700300	1667000	0	0	0	0	0	0
TKPSDEEMLFIYGHYK	DBI; DBI; DBI	P07108; B8ZWD1	ACBP	HUMA	Oxidation (M)	36357000	30851000	31667000	682210	668100	435780	283990	171460	303920
TKPVTGNLRPEEALQALTIYEGK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	10117000	9723300	8723000	0	0	0	0	0	0
TKPVTGNLRPEEALQALTIYEGK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Deamidation (N)	2159400	1445700	1280200	0	0	0	0	0	0
TKPVTGNLRPEEALQALTIYEGKFGR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1354600	1275000	1507200	0	0	0	0	0	0
TKQFGTFPGNYVKPLYL	SORBS1; SORBS1; S	Q9BX66; A0A3B3	SRBS1	HUM	Unmodified	0	0	395500	0	0	0	229140	47744	134550
TKQPIPAAYNR	CDC73; CDC73; CDC	Q6P1J9; A0A2R8	CDC73	HUM	Unmodified	585710	0	489570	61598	34760	80577	0	0	0
TKQSTVLAPVIDLK	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45	HUM	Unmodified	886650	1073500	1053700	108390	114970	0	0	0	0
TKQSTVLAPVIDLKR	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45	HUM	Unmodified	1205100	1272500	1313000	77954	66195	55734	0	0	0
TKREQEVAELKK	MYH10	P35580	MYH10	HUM	Unmodified	0	0	1080400	0	0	0	0	0	0
TKSDMMEENIDTSAQAVAETK	HMGN5; HMGN5; H	P82970; Q5JSK6;	HMGN5	HUM	2 Oxidation (M)	2615800	0	752540	0	0	0	0	0	0
TKSQGGEPTYNVAVGR	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2	HUM	Unmodified	12931000	14106000	12372000	367990	636190	488780	32108	0	63975
TKSQGGEPTYNVAVGR	PFN2; PFN2; PFN2; I	P35080; G5E9Q6;	PROF2	HUM	Methyl (KR)	708060	681860	876620	15890	0	31439	0	0	0
TKSTGGAPTFNVTVTK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Unmodified	5929200	5571700	7074900	41349	43594	104540	15172	0	0
TKSTGGAPTFNVTVTK	PFN1; PFN1	P07737; K7EJ44	PROF1	HUM	Methyl (KR)	0	629940	709900	0	0	0	0	0	0
TKTENPLILIDEVDKIGR	LONP1; LONP1; LO	P36776; K7EJE8;	LONM	HUM	Unmodified	1182100	886420	836400	0	0	0	0	0	0
TKTETITGFQVDAVPANGQTPIQR	FN1; FN1	P02751; H0Y7Z1	FINC	HUMA	Deamidation (N)	12389000	12558000	12694000	2203100	1902700	1493800	126680	87639	83711
TKTPGPGAQSALR	RPS14; RPS14; RPS1	P52263; E5RH77;	RS14	HUM	Unmodified	1470700	1399200	976520	80240	64133	79643	0	0	0
TKVENGEGTIPVESSSDIVPTWDGIR	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD	HUM	Deamidation (N)	10147000	3301800	8355600	0	0	0	0	0	0
TKVMQEEIFGPILPIVPVK	ALDH3A2; ALDH3A	P51648; A0A5F9	AL3A2	HUM	Oxidation (M)	1981000	1783300	1682500	0	0	0	0	0	0
TKYWELIYEDSMDLIAK	CS; CS; CS; CS; CS;	O75390; F8VPA1;	CISY	HUMA	Oxidation (M)	0	274640	1099000	0	0	0	0	0	0
TLAAEMQELR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2	HUM	Oxidation (M)	1742600	1418000	1233600	77915	75942	76207	0	0	0
TLADAEGDVFR	ALDH6A1	Q02252	MMSA	HUM	Unmodified	3466400	4299900	4482600	315880	504200	382340	0	0	0
TLAEIAKAELDGTILK	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1	HUM	Unmodified	8143600	4329200	5485300	0	0	0	0	0	0
TLAEIAKVELDNMPLR	NONO; NONO; NON	Q15233; C9IZL7;	NONO	HUM	Oxidation (M)	11457000	6989500	5678800	0	0	0	0	0	0
TLAEIAKVELDNMPLRGK	NONO; NONO; NON	Q15233; C9IZL7;	NONO	HUM	Oxidation (M)	1547200	920390	1163400	0	0	0	0	0	0
TLAEINANRADAEEEAATR	DYNC1I2	Q13409	DC1I2	HUM	Unmodified	1110300	1383900	1509200	0	59585	63834	18958	0	0
TLAEINANRADAEEEAATRIPA	DYNC1I2	Q13409	DC1I2	HUM	Unmodified	8258600	7907200	10112000	517260	341920	187250	0	78542	0
TLAEINANRADAEEEAATRIPA	DYNC1I2	Q13409	DC1I2	HUM	Deamidation (N)	4376000	4285600	7126000	70104	70232	29406	41992	0	0
TLAESALQLLYTAK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	3187800	3079100	4643300	0	0	0	0	0	0

TLAESALQLLYTAKEAGGNPK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	3397800	3046000	2602400	0	0	0	0	0	0
TLAFTSVDLTNK	ACOT13	Q9NPJ3	ACO13_HUM	Unmodified	740760	539650	767480	0	21788	0	0	0	0
TLAFTSVDLTNKATGK	ACOT13	Q9NPJ3	ACO13_HUM	Unmodified	996830	827580	698020	30108	24616	21130	0	0	0
TLAGDVHIVR	VPS29; VPS29	Q9UBQ0; F8VXU	VPS29_HUM	Unmodified	0	739900	935450	0	0	0	0	0	0
TLALLAFDSPEESPFGDLLHTMQR	GID8	Q9NWU2	GID8_HUMA	Oxidation (M)	1092800	267250	860510	0	0	0	0	0	0
TLAPTWEELSKK	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	0	0	660160	0	0	0	0	0	0
TLAPTWEELSKKEFPGLAGVK	TXNDC5	Q8NBS9	TXND5_HUM	Unmodified	3101000	1426500	1789200	0	0	0	0	0	0
TLAQLNPESSLFIIASK	GPI; GPI; GPI; GPI; C	P06744; A0A0J9Y	G6PI_HUMA	Unmodified	25332000	17585000	14777000	38060	0	0	0	16908	0
TLASAGGPDNLVLLNPEKYKAK	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA_HUM	Unmodified	0	0	0	0	135780	0	0	0	0
TLASENIPSLPPGGELASKR	PPM1A	P35813	PPM1A_HUM	Unmodified	983280	1101400	1489500	52032	0	0	0	0	0
TLATDILMGVLK	DHX15	O43143	DHX15_HUM	Oxidation (M)	2582000	1356500	2103900	0	0	10828	0	11668	13451
TLATLSENNMEAK	MRPL46	Q9H2W6	RM46_HUMA	Oxidation (M);Deam	578480	560110	0	0	0	0	0	0	0
TLATPAVR	DBT; DBT; DBT	P11182; A0A7P0	ODB2_HUMA	Unmodified	526510	683340	644360	124600	103120	216880	0	0	0
TLATWATK	KPNB1; KPNB1; KPI	Q14974; J3KS06;	IMB1_HUMA	Unmodified	4176800	4319700	3575500	0	0	0	0	0	0
TLAVSGLGVVGR	TOP2A	P11388	TOP2A_HUM	Unmodified	6395900	5761600	5598400	43102	28953	25962	0	0	0
TLAYLLPAIVHNHQPYLER	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Unmodified	8126100	4605200	4144200	0	0	14655	0	0	0
TLAYLLPAIVHNHQPYLER	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17_HUM	Deamidation (N)	1730500	2611900	3685800	0	0	0	0	0	0
TLCCATVGR	FBN1	P35555	FBN1_HUMA	Unmodified	0	0	0	0	0	0	408190	399340	396510
TLDDVPGPPMGILFPEVR	SDK2; SDK2	Q58EX2; H7C2P2	SDK2_HUMA	Oxidation (M)	394050	412540	484230	0	0	0	0	0	0
TLDGFKK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	6886800	4983600	5920300	649740	722950	0	8536.7	0	0
TLDGGLNVIQLETAVGAAIK	UGP2; UGP2; UGP2;	Q16851; E7EUC7	UGPA_HUM	Unmodified	139430	0	0	0	0	0	0	0	0
TLDGIFSEQVAMGVSHSLVIAR	RCC2	Q9P258	RCC2_HUMA	Oxidation (M)	7037700	1859000	19520000	0	0	0	0	0	0
TLDGIFSEQVAMGVSHSLVIARDESETEKEK	RCC2	Q9P258	RCC2_HUMA	Oxidation (M)	0	1277800	1306900	0	0	0	0	0	0
TLDINVK	DHRS4L2; DHRS4; D	Q6PKH6; Q9BTZ	DR4L2_HUM	Unmodified	745140	0	0	26172	0	28402	0	0	0
TLDKVSLEETAQLPSAPQGSR	PYM1	Q9BRP8	PYM1_HUM	Unmodified	6793700	5257600	7734600	881170	860930	363850	772220	183890	535370
TLDLPIYVTR	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUM	Unmodified	15402000	17493000	5191300	712720	705530	536350	268440	138290	0
TLDNLGYR	ADD3	Q9UEY8	ADDG_HUM	Unmodified	0	0	0	101080	68783	86731	0	0	0
TLDPDPAIR	CSE1L	P55060	XPO2_HUMA	Unmodified	5625200	5351900	4643300	84370	78654	45779	0	0	0
TLDPDPAIRRPAEK	CSE1L	P55060	XPO2_HUMA	Unmodified	2572400	3015700	1194500	0	0	0	0	0	0
TLDQISDADNIPGLLVLK	TTC37; TTC37	Q6PGP7; D6RCE	TTC37_HUM	Unmodified	338080	211460	358610	0	0	0	0	0	0
TLDSWRDEFLIQASPR	RAB7A; RAB7A; RA	P51149; A0A6Q8	RAB7A_HUM	Unmodified	3589200	2502300	2612300	0	0	0	0	0	0
TLDTIQLAFK	LPCAT1; LPCAT1; L	Q8NF37; A0A0G2	PCAT1_HUM	Unmodified	1826100	1055900	874190	10902	0	10058	0	0	0
TLDVDATYEIAKR	LIG1; LIG1; LIG1	P18858; M0R0Q7	DNLI1_HUM	Unmodified	0	496610	728940	0	0	0	0	0	0
TLEAEFNSPSPPTPEPGEGPR	SHTN1	A0MZ66	SHOT1_HUM	Deamidation (N)	2085400	5308700	1852200	42565	34158	34966	0	0	0
TLEAEFNSPSPPTPEPGEGPR	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	4512100	3449900	2936900	139030	105100	139630	0	0	0
TLEAERQRQLEMSAEAERLK	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	0	0	278260	561300	88248	182620	0	0	0
TLEDIEKNYMSPLR	VAV2	P52735	VAV2_HUMA	Oxidation (M)	1966800	0	2088900	0	17830	0	0	0	15417
TLEDPDLNVR	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Unmodified	1971600	2173900	2042000	130920	118040	109200	0	0	0
TLEDPDLNVRR	CAND1; CAND1	Q86VP6; A0A0C4	CAND1_HUM	Unmodified	3832600	3211000	3239400	210640	215910	0	0	0	0
TLEEAIR	ANXA11	P50995	ANX11_HUM	Unmodified	8842700	1322700	719050	0	23506	0	0	0	0
TLEEDEEELFK	RANBP1; RANBP1;	P43487; C9JDM3	RANG_HUM	Unmodified	0	450070	515570	0	0	0	0	0	0
TLEEDEEELFKMR	RANBP1; RANBP1;	P43487; C9JDM3	RANG_HUM	Oxidation (M)	4653500	4259900	4685400	41842	23346	0	0	0	0
TLEEEAKTHEAQIQEMR	MYH9	P35579	MYH9_HUM	Oxidation (M)	5381800	6134000	4884400	179580	170320	310200	0	0	0
TLEEEAKTHEAQIQEMRQK	MYH9	P35579	MYH9_HUM	Oxidation (M)	2450000	2221100	2604500	140660	0	102470	0	0	0
TLEEETRIHEAAVQELR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Unmodified	695580	1687900	708250	0	0	0	0	0	0
TLEEGHDFIQEFPGSPAFAALTSIAQK	NUBP2; NUBP2; NU	Q9Y5Y2; H3BQR	NUBP2_HUM	Unmodified	488080	330550	465190	0	0	0	0	0	0
TLEEILLER	ZC3H11A; ZC3H11A	O75152; E9PBY7	ZC11A_HUM	Unmodified	1661900	2081300	1584200	0	9035.8	0	0	0	0
TLEELDPESREYWR	MRPL54	Q6P161	RM54_HUMA	Unmodified	1043700	490930	615140	0	0	0	0	0	0
TLEENKEEEGSEPPKAETQEGEPIAK	PPIE; PPIE; PPIE; PP	Q9UNP9; E9PIB0	PPIE_HUMA	Unmodified	607430	1064800	837060	0	0	0	0	0	0
TLEESKEMDIK	HUWE1	Q7Z6Z7	HUWE1_HUM	Oxidation (M)	1604200	823350	1031500	52347	47684	63899	0	0	0
TLEGELHDLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	766280	544440	1291200	0	0	0	0	0	0
TLEGELHDLRGQVAK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	1598800	0	1104800	0	0	0	0	0	0
TLEGVITR	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	2166500	901930	1961800	98157	118450	66363	0	0	0
TLEHLQLSHDQLLEVK	HK2; HK2	P52789; E9PB90	HXK2_HUM	Unmodified	1237400	3558800	1719800	0	0	0	0	0	0
TLEIALEQKKEECLK	ERC1; ERC1; ERC1;	Q8IUD2; G8JLD3	RBI6I2_HUM	Unmodified	396940	0	0	0	0	0	0	0	0
TLELQGLINDLQR	DSP	P15924	DESP_HUMA	Unmodified	1251300	658390	1441600	0	0	0	0	0	0
TLENLLASIR	CC2D1A; CC2D1A	Q6P1N0; K7EJY5	C2D1A_HUM	Unmodified	1515400	1062300	1337200	0	0	0	0	0	0
TLENPVNVYNPSHSDSLASQQSVASHPR	SEC16A; SEC16A; SI	O15027; F1T01; ;	SC16A_HUM	Unmodified	1852000	1400000	1690800	421370	335160	405540	116270	121960	154510
TLEPQELAR	ATXN2L; ATXN2L	Q8WWM7; H3BU	ATX2L_HUM	Unmodified	3715100	3942800	3710800	149760	142550	138550	0	0	0
TLEPVKPPTVPNDYMTSPAR	ABI1; ABI1; ABI1	Q8IZP0; A0A0A0	ABI1_HUMA	Oxidation (M)	405230	464630	505750	0	0	0	0	0	0
TLEPVKPPTVPNDYMTSPAR	ABI1; ABI1; ABI1	Q8IZP0; A0A0A0	ABI1_HUMA	Oxidation (M);Deam	3161700	2766500	3046200	88120	77569	0	0	26350	33573
TLEPVRPPVVPNDYVPSPTR	ABI2; ABI2; ABI2;	Q9NYB9; H7C3Q	ABI2_HUMA	Unmodified	230800	510080	0	0	0	0	0	0	0
TLEPYILPFMFYNDVKK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1_HUM	Oxidation (M);Deam	0	587580	0	0	0	0	0	0	0
TLEPYILPFMFYNDVKK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1_HUM	Oxidation (M)	0	623610	509480	0	0	0	0	0	0
TLEPYILPFMFYNDVKK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1_HUM	2 Methyl (KR);Dea	1029700	0	699790	0	0	0	0	0	0
TLESQAVETEK	NLE1; NLE1; NLE1	Q9NVX2; A0A0A	NLE1_HUMA	Unmodified	564030	320080	394450	0	102760	0	0	0	0
TLESSIQGLR	ARPC1A	Q92747	ARC1A_HUM	Unmodified	2171100	2109000	2099700	0	76156	48033	0	0	0
TLETLIR	MCM3; MCM3; MCM	P25205; Q7Z6P5;	MCM3_HUM	Unmodified	11085000	10347000	11011000	13159	14915	13485	0	0	0
TLETLPEK	HMBS; HMBS; HMB	P08397; A0A3B3I	HEM3_HUM	Unmodified	663110	533360	0	0	0	0	0	0	0
TLETVPLER	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Unmodified	73373000	61445000	65933000	2623900	2272100	2947500	170870	0	0
TLFDEGWHQIR	COL21A1; COL21A1	Q96P44; F5GZK2	COLA1_HUM	Unmodified	1390700	837900	1178900	0	0	0	0	0	0
TLFGFLGK	SRSF11; SRSF11; SR	Q05519; B4DWT1	SRS11_HUM	Unmodified	13121000	11140000	11938000	23276	0	0	0	0	0
TLFGFLGKIDELR	SRSF11; SRSF11; SR	Q05519; B4DWT1	SRS11_HUM	Unmodified	1660400	1024900	1656200	0	0	0	0	0	0
TLFGFLGKIDELR	SRSF11; SRSF11; SR	Q05519; B4DWT1	SRS11_HUM	Methyl (KR)	432110	262220	400150	0	0	0	0	0	0
TLFGKMMDYLQGSGETPQTDVR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUN	2 Oxidation (M)	8847800	7852900	9001400	201480	225000	60012	0	0	0
TLFLELIR	TOE1	Q96GM8	TOE1_HUMA	Unmodified	342060	184980	218710	0	0	0	0	0	0
TLFPLIEAK	XRCC5	P13010	XRCC5_HUM	Unmodified	39366000	32167000	34058000	307730	358700	288300	40256	40740	0
TLFPVVLEQLDDYNAK	LAMA4; LAMA4; LA	Q16363; A0A0A0	LAMA4_HUM	Unmodified	0	189910	191990	0	0	0	0	0	0
TLFQPQTGAYQTLAK	SEC24C; SEC24C	P53992; G5EA31	SC24C_HUM	Unmodified	1941100	1603200	1709300	113800	141610	117450	0	0	0
TLFSTHYHSLVEDYSQNVAVR	MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	4889700	1178300	5115000	0	0	0	0	0	0
TLFVKGLSEDTTEETLKESFDGSVR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Methyl (KR)	1471700	934190	1547000	0	0	0	0	0	0
TLGDFAAEYAK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	Unmodified	21851000	20208000	26037000	463800	545730	541730	57489	50784	60223
TLGDTGFMPPDKITR	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5_HUM	Oxidation (M)	10414000	6356800	6902500	149220	165990	186520	0	0	0
TLGDTGFMPPDKITRS	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5_HUM	Oxidation (M)	2152700	2067500	2019600	256420	228190	240160	59106	48522	0
TLGECGFTSQTARPQAPATVGLAFR	ELOB; ELOB; ELOB	Q15370; B8ZZU8	ELOB_HUMA	Unmodified	379750	638910	379300	0	0	0	0	0	0
TLGGKQPVYDTTIR	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	603880	736260	817990	60264	31610	32265	0	0	0
TLGGLEMELR	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Oxidation (M)	5198200	4309000	5783700	0	33137	0	0	0	0
TLGILGLGR	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Unmodified	3660300	3314900	2579500	41650	50682	0	25270	0	20776
TLGKDHPAVAATLNNLAVLYGK	KLC1; KLC2; KLC1;	Q07866; Q9H0B6	KLC1_HUMA	Unmodified	334900	281560	1808900	0	0	0	0	0	0
TLGLGEEWR	PLOD3; PLOD3; PLC	O60568; C9JU11	PLOD3_HUM	Unmodified	0	583170	579360	0	0	0	0	0	0
TLGLGEEWRGGDVAR	PLOD3; PLOD3; PLC	O60568; C9JU11	PLOD3_HUM	Unmodified	3645100	4342700	3419500	0	0	0	0	0	0
TLGSFEFEGHSLTQFVR	MTOR	P42345	MTOR_HUMA	Unmodified	418930	0	268160	0	0	0	0	0	0
TLGTGSFGR	PRKACA; PRKACB;	P17612; P22694;	KAPCA_HUM	Unmodified	2750900	3025500	2231800	88451	116540	112320	0	0	19639
TLGTMIAGDTSGDYRR	ANXA7	P20073	ANXA7_HUM	Oxidation (M)	11657000	7719100	7383100	206770	318720	0	0	0	0
TLGTPTQPGSTPR	NUP35	Q8NFH5	NUP35_HUM	Unmodified	1607500	1562900	1886800	150220	149220	150080	0	0	0
TLGWEALLAR	PKN1	Q16512	PKN1_HUMA	Unmodified	1529800	1733800	1747200	0	0	0	18936	14089	15832
TLHLQTGNLLNWGR	GCLM	P48507	GSH0_HUMA	Unmodified	601360	397360	532920	0	0	0	0	0	0
TLHNLVIQYASQGR	KLC1; KLC2; KLC1;	Q07866; Q9H0B6	KLC1_HUMA	Unmodified	1134600	1312100	1098700	0	0	0	0	0	0
TLHPAVHAGILAR	ATIC; ATIC	P31939; C9JLK0	PUR9_HUMA	Unmodified	2256900	2328800	1602400	71394	59435	53315	0	0	0
TLHPDLGTDKDKEQWK	LDHA	P00338	LDHA_HUMA	Unmodified	3167900	3002500	2431900	0	0	0	0	0	0
TLHSDDEGTVLDDSR	AIP; AIP	O00170; E9PMH2	AIP_HUMAN	Unmodified	684610	691880	257900	0	23773	0	0	0	0
TLHSDDEGTVLDDSRAR	AIP; AIP	O00170; E9PMH2	AIP_HUMAN	Unmodified	1439500	793550	1219400	213950	211330	179790	0	0	0
TLHWDTDPSVLQLHSDSDLGRGPIK	DYNC1I2; DYNC1I2;	Q13409; E7ERR6	DC1I2_HUM	Unmodified	1856100	0	1826700	0	0	0	0	0	0
TLHYECIVLVK	NUDT5; NUDT5; NU	Q9UKK9; H0YEY	NUDT5_HUM	Unmodified	1398300	911470	1799000	0	0	0	0	0	0
TLIDDDNPPVSFVK	WDR5	P61964	WDR5_HUM	Unmodified	1228400	936210	1166600	0	31556	56759	0	0	0
TLIEAGLPQK	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR_HUM	Unmodified	2597800	2071800	2140200	0	0	0	0	0	0
TLIEFLLR	LAP3	P28838	AMPL_HUM	Unmodified	1509100	746170	1102500	0	0	0	0	0	0
TLIEPFTLLASK	NKIRAS1; NKIRAS1	Q9NYS0; G5E9P3	KBRS1_HUM	Unmodified	709760	469910	614960	0	0	0	0	0	0
TLIGFLR	LSM1; LSM1; LSM1	O15116; E5RH18	LSM1_HUMA	Unmodified	1786200	1821000	930890	0	0	0	0	0	0
TLINAEDPPMVVVR	IQGAP1; IQGAP1; IQ	P46940; A0A0J9Y	IQGA1_HUM	Oxidation (M)	932750	0	0	0	0	0	0	0	0
TLINELVK	DYNC1H1; DYNC1H	Q14204; A0A2R8	DYHC1_HUM	Unmodified	915450	923470	556130	0	0	0	0	0	0
TLITFAGMIPYR	NUP93; NUP93	Q8N1F7; H3BV15	NUP93_HUM	Oxidation (M)	6431900	6003100	6122900	41391	36016	70518	33097	17285	0
TLIVEPHVIPNR	AQR	O60306	AQR_HUMA	Unmodified	0	886760	1561200	28289	0	0	0	0	0
TLIVTHSNQALNQLFEK	AQR	O60306	AQR_HUMA	Unmodified	0	684900	531680	0	0	0	0	0	0
TLKIPAMTIAK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M)	40440000	33282000	36035000	420260	378980	0	0	0	0
TLKIPAMTIAK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M);Meth	13904000	16633000	16414000	392750	0	275980	0	0	0
TLKIPAMTIAKNAGVEGSLIVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M);Meth	2222300	874560	2201300	0	0	0	0	0	0
TLKIPAMTIAKNAGVEGSLIVEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Oxidation (M);Deam	3483000	2671800	3352800	0	0	0	0	0	0
TLKKEDRQK	XRCC5	P13010	XRCC5_HUM	Unmodified	450440	199340	689520	42371	0	0	0	0	0
TLKQQEEVFR	RSRC2	Q7L4I2	RSRC2_HUM	Unmodified	635070	637250	687760	23461	0	0	0	0	0
TLLADKGEIR	MTA1; MTA3; MTA	Q13330; Q9BTC8	MTA1_HUM	Unmodified	750420	1416900	3273300	0	0	0	0	0	0
TLLADQGEIR	MTA2	O94776	MTA2_HUM	Unmodified	3175900	3261100	4058000	273500	223200	74058	0	0	0
TLLATVDETIPLLPASTHR	PTK2; PTK2; PTK2;	Q05397; E9PEI4;	FAK1_HUMA	Unmodified	3250700	2039000	2054400	0	0	0	0	0	0
TLLDQHGQYPIWMNQR	LLPH	Q9BRT6	LLPH_HUMA	Oxidation (M)	347460	455040	0	0	0	0	0	0	0
TLLEEEYFR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	8743600	8663500	7016500	0	0	0	0	0	0
TLLEEEYFREK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUM	Unmodified	4673500	4447300	4036700	0	0	0	0	0	0
TLLEGPDPAELLLMGSYLGKPGPPQPAPAPEGQDLR	POM121C	A8CG34	P121C_HUM	Oxidation (M)	464190	237580	0	0	0	0	0	0	0
TLLEGSGLESIISIIHSSLAEPR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	51469	0	0	0	0	0	0	0	0
TLLENTAITIGIR	TNPO1; TNPO1; TNI	Q92973; A0A7P0	TNPO1_HUM	Deamidation (N)	970130	757670	866170	17967	24397	14266	0	0	0
TLLEQLDDDQ	PRPF40A; PRPF40A	O75400; A0A7N4	PR40A_HUM	Unmodified	1554500	972140	1078900	373100	385310	246020	0	0	0
TLLETLQK	PCYOX1; PCYOX1;	Q9UHG3; F8W8W	PCYOX_HUM	Unmodified	1736800	1828500	1991200	0	0	0	0	0	0
TLLGDGPVVTDPKAPNVVVTR	ARHGDIB; ARHGDI	P52566; F5H2R5;	GDIR2_HUM	Unmodified	2821600	2097400	2765400	69677	38046	0	80459	0	13018

TLLHHAVSTGSKDVVR	DGKZ; DGKZ	Q13574; E9PNL8	DGKZ	HUM/	Unmodified	0	325450	591690	0	0	0	0	0	0
TLLIKTVETR	VIM	P08670	VIME	HUMA	Unmodified	0	0	0	452680	655050	594870	0	0	0
TLLIKTVETRDGQVINETSQHHDDLE	VIM	P08670	VIME	HUMA	Unmodified	0	0	0	128470	93362	0	170740	0	70615
TLLMYTVPAVQGFFR	MTOR; MTOR	P42345; B1AKP8	MTOR	HUM/	Oxidation (M)	79449	66892	209770	0	0	0	0	0	0
TLLPEDSQKLDNFLGEVR	MACF1; MACF1; M/	Q9UPN3; H3BQK	MACF1	HUM	Methyl (KR);Deam	0	236590	227660	0	0	0	0	0	0
TLLPHDPTADVFVTPAEEKPIEIQWVKPEPK	BRIX1	Q8TDN6	BRX1	HUMA	Unmodified	4168600	2505600	0	0	0	0	0	0	0
TLLQVLGGTILESER	NOP9; NOP9	Q86U38; A0A3B3	NOP9	HUMA	Unmodified	1855100	0	316110	0	0	0	0	0	0
TLLSDPTYR	STIP1; STIP1	P31948; F5H783	STIP1	HUMA	Unmodified	9366200	9397500	8253100	38791	0	0	0	0	0
TLLSDPTYRELIEQLR	STIP1; STIP1	P31948; F5H783	STIP1	HUMA	Unmodified	31989000	22702000	33230000	0	0	26142	0	0	0
TLLVADPR	RPS16; RPS16	P62249; M0R210	RS16	HUMA	Unmodified	14571000	9821900	12186000	410610	0	502170	0	0	0
TLLWTELFR	NDUFS8; NDUFS8; N	O00217; F8W9K7	NDUS8	HUM	Unmodified	1075000	731620	1090800	0	0	0	0	0	0
TLMALGSLAVTK	TAGLN; TAGLN	Q01995; H0YCU9	TAGL	HUMA	Oxidation (M)	0	0	0	43806	0	0	51162	121430	35832
TLMALGSVAVTK	TAGLN3; TAGLN3	Q9UJ15; C9J5W6	TAGL3	HUM	Oxidation (M)	1496500	1873200	1310200	0	0	0	0	0	0
TLMAQSIYGGR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	1456100	1144200	1109800	0	0	0	0	0	0
TLMAQSIYGGRVDNEFDQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M);Deai	584200	677550	567990	0	0	17405	0	0	0
TLMELLNQMDGFDTLHR	PSMC6; PSMC6	P62333; A0A087	PRS10	HUM/	2 Oxidation (M);De	835250	0	611050	0	0	0	0	0	0
TLMELLNQMDGFDTLHR	PSMC6; PSMC6	P62333; A0A087	PRS10	HUM/	2 Oxidation (M)	279130	5347300	2921500	0	0	0	0	0	0
TLMNLGGLAVAR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	19852000	22967000	19475000	186440	185550	161840	54392	43664	46948
TLMNLGGLAVAR	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M);Deai	5794900	3598200	0	30144	37536	26913	0	18236	0
TLMNLGGLAVARDDGLFSGDPNWFPK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	958800	0	860390	0	0	0	0	0	0
TLMNLGGLAVARDDGLFSGDPNWFPKK	TAGLN2; TAGLN2	P37802; X6RJP6	TAGL2	HUM	Oxidation (M)	5204600	3713700	5451600	0	0	0	0	0	0
TLMSAEANLAGLFPPNGMQR	ACP2; ACP2; ACP2;	P11117; B7Z7D2;	PPAL	HUMA	2 Oxidation (M);De	457700	565460	1747400	0	0	0	0	0	0
TLMSHYEEAMGLSGR	NFATC2IP; NFATC2	Q8NCF5; H3BSZ7	NF2IP	HUMA	2 Oxidation (M)	1134400	477870	415330	0	0	0	0	0	0
TLNAGAYSK	PPT1; PPT1; PPT1; P	P50897; A0A286	PPT1	HUMA	Unmodified	1424000	1588200	1716400	0	0	0	0	0	0
TLNDELEIIEGMK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Oxidation (M);Deai	893830	1080800	3526300	0	0	0	0	0	0
TLNDELEIIEGMK	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Oxidation (M)	2057700	1663500	1997400	55515	71663	37995	46794	79049	27514
TLNDELEIIEGMKFDR	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Oxidation (M)	6073400	4502000	4967600	0	0	0	0	0	0
TLNDELEIIEGMKFDR	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Oxidation (M);Deai	7421400	7338100	6661500	0	0	0	0	0	0
TLNDELEIIEGMKFDR	HSPD1; HSPD1; HSP	P10809; A0A7I2	CH60	HUMA	Oxidation (M);Metl	1086700	1632200	1378000	0	0	0	0	0	0
TLNINGQIPTGEGPPLVK	EPB41; EPB41; EPB4	P11171; A0A2R8	EPB41	HUM/	Deamidation (N)	1558000	266770	1971100	23591	25154	13809	0	0	0
TLNMTTSPEEK	GMPS	P49915	GUAA	HUM/	Oxidation (M)	653620	846900	764460	0	0	0	0	0	84039
TLNMTTSPEEK	GMPS	P49915	GUAA	HUM/	Oxidation (M);Deai	1191800	1299900	1016600	0	0	0	0	0	0
TLPETLDPAEYNISPETR	NDUFB4; NDUFB4; I	O95168; F2Z3P9;	NDUB4	HUM	Unmodified	9929500	7621400	7563800	64426	81297	52813	16969	20797	0
TLPETLDPAEYNISPETR	NDUFB4; NDUFB4; I	O95168; F2Z3P9;	NDUB4	HUM	Deamidation (N)	184200	217520	164180	0	0	0	0	0	0
TLPETLDPAEYNISPETRR	NDUFB4; NDUFB4; I	O95168; F2Z3P9;	NDUB4	HUM	Unmodified	3638500	3765700	2603600	0	0	0	0	0	0
TLPGSDWTPNAQFITR	MARS1	P56192	SYMC	HUM/	Deamidation (N)	237300	0	352200	0	0	0	0	0	0
TLPGSDWTPNAQFITR	MARS1	P56192	SYMC	HUM/	Unmodified	0	1641200	0	0	0	0	0	0	0
TLPHFIKDDYGPESR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUMA	Unmodified	1258600	1060600	1121300	0	0	70698	0	0	0
TLPHGAGHLAFSQR	WDR46	O15213	WDR46	HUM	Unmodified	0	251670	634930	0	0	0	0	0	0
TLPLTGSTFHDQIAMLSHR	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD	HUM	Oxidation (M)	1955400	1046000	0	0	0	0	0	0	0
TLPLVVILGATGTGK	TRIT1; TRIT1; TRIT1	Q9H3H1; B4DK8	MOD5	HUM	Unmodified	387950	432830	569110	0	0	0	0	0	0
TLPPATSTEPSVILSK	MTDH; MTDH; MTI	Q86UE4; H0YBJ8	LYRIC	HUM	Unmodified	3564600	1794400	2148900	119410	107200	102980	0	0	0
TLPQAEALDR	AK3	Q9UIJ7	KAD3	HUMA	Unmodified	3386400	7961500	8121900	0	0	434820	0	0	0
TLPQQESLEIELAEEKPVKR	CARMIL1; CARMIL	Q5VZK9; A0A0U	CARL1	HUM	Unmodified	0	1078900	0	0	31051	0	0	0	0
TLPSGLDDYPR	MOGS; MOGS; MOC	Q13724; A0A3B3	MOGS	HUM	Unmodified	1465200	1117500	0	0	261420	0	0	82815	0
TLPVLLLYSIKESDEKAGK	BIRC6; BIRC6	Q9NR09; A0A3B3	BIRC6	HUM	Unmodified	222690	512950	323570	0	0	0	0	0	0
TLQALEFHTVPFQLLAR	LGALS3BP	Q08380	LG3BP	HUM	Unmodified	14762000	16084000	16050000	26332	0	16847	7513.6	0	0
TLQATPGAFGELYTQNAR	GPC1; GPC1; GPC1;	P35052; H7C024;	GPC1	HUMA	Unmodified	899900	1035700	1718600	0	0	0	0	0	0
TLQATPGAFGELYTQNAR	GPC1; GPC1; GPC1;	P35052; H7C024;	GPC1	HUMA	Deamidation (N)	1115000	930410	1778900	0	0	0	0	0	0
TLQEMEMSLPEDEGHTR	BRD7	Q9NPI1	BRD7	HUMA	2 Oxidation (M)	883500	866750	0	0	0	0	0	0	0
TLQEQLEK	PNN; PNN; PNN	Q9H307; G3V5F0	PININ	HUMA	Unmodified	3354300	2419500	2112900	0	0	0	0	0	0
TLQEQLENGPNTQLAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Deamidation (N)	4548600	3795100	4577900	436320	424210	442930	51238	23038	24305
TLQEQLENGPNTQLAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	2 Deamidation (N)	662070	591670	966340	84878	53935	37489	0	0	0
TLQEVLTMEYR	HIBCH; HIBCH; HIB	Q6NVY1; F8W8A	HIBCH	HUM	Oxidation (M)	1610900	1977700	1692900	25804	0	0	0	19816	0
TLQEVTEMDSVKR	EPPK1; EPPK1	P58107; A0A075	EPIPL	HUMA	Oxidation (M)	1351500	1444800	1296300	0	0	0	0	0	0
TLQEVTQLSQEAQR	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	12150000	12291000	6953100	176640	166860	98155	0	0	42613
TLQGHSVIR	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B	HUMA	Unmodified	1560700	1277100	1285100	154740	119820	102460	0	7502.2	0
TLQGTVSQAAQER	RABEP2; RABEP2	Q9H5N1; B4DHR	RABE2	HUM	Unmodified	641740	449790	586490	0	27244	0	0	0	0
TLQIFNIEMK	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Oxidation (M)	2943800	2506500	2632300	84221	72736	77124	0	13953	0
TLQKPESVISVQK	SYNE2; SYNE2; SY	Q8WXH0; G3V4T	SYNE2	HUM	Unmodified	2104500	1700600	1728000	35161	20834	0	0	0	0
TLQLDNNFEVK	PRPF19	Q9UMS4	PRP19	HUM/	Deamidation (N)	1444100	1170200	1317100	0	0	25704	0	0	0
TLQLEVR	CPNE1; CPNE1; CPN	Q99829; Q5JX45;	CPNE1	HUM	Unmodified	1511500	974260	1337300	0	0	0	0	0	0
TLQNTSSEGSR	FMR1	Q06787	FMR1	HUM	Unmodified	284560	236730	211840	28974	25794	24770	0	0	0
TLQQQTFK	RAD23B; RAD23A; I	P54727; P54725;	RD23B	HUM	Unmodified	8846500	9337700	9942100	118510	144340	122580	0	0	0
TLQQQTFKIDIDPEETVK	RAD23B; RAD23B	P54727; Q5W0S5	RD23B	HUM	Unmodified	8232100	5248200	4696500	0	0	0	0	0	0
TLQVQAAQFAK	BLOC1S1; BLOC1S1	P78537; G8JLQ3;	BL1S1	HUM	Unmodified	0	0	824640	0	28966	0	0	0	0
TLQYKLLEPVLLLGKER	RPS16; RPS16; RPS1	P62249; M0R1M5	RS16	HUMA	Methyl (KR)	978720	1044000	1216300	0	0	0	0	0	0
TLQYKLLEPVLLLGKER	RPS16; RPS16; RPS1	P62249; M0R1M5	RS16	HUM	Unmodified	605000	0	515380	0	0	0	0	0	0
TLREQGVEEHETLLLR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	6941800	8042000	6739700	192570	236970	80989	227170	172870	50737
TLREQGVEEHETLLLRR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	5650400	3025600	4568000	39788	0	24784	125500	146220	174390
TLRLAGTQPLEVLEAVQR	UBA1; UBA1	P22314; Q5JRR6	UBA1	HUMA	Unmodified	5287400	3952200	4801800	0	0	0	0	0	0
TLSAPQEER	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C	HUM	Unmodified	951300	1027000	1234100	72519	48046	49115	0	0	0
TLSDATTK	CYRIB; CYRIB; CYR	Q9NUQ9; A0A087	CYRIB	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TLSDATTKFVSENK	CYRIB; CYRIB; CYR	Q9NUQ9; A0A087	CYRIB	HUM	Unmodified	877330	1026100	820590	0	0	0	0	0	0
TLSDVEDQKELASPVSPELR	UBR4	Q5T4S7	UBR4	HUMA	Unmodified	3427700	2601500	0	89515	61599	78020	0	0	0
TLSEVDYAPAGPAR	INPPL1; INPPL1; INI	O15357; H0YFZ4;	SHIP2	HUMA	Unmodified	1346700	1747300	1783400	305320	0	448050	0	0	0
TLSFGSDLNYATR	EIF3A	Q14152	EIF3A	HUMA	Unmodified	1380400	1467900	1202500	71552	43757	0	0	0	0
TLSGMESYCVR	CCT4	P50991	TCPD	HUMA	Oxidation (M)	4352900	4082200	3222200	163040	205810	253120	0	0	0
TLSLDEVYLIDSGAQYKDGTTDVTR	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TLSLHYFEEPELR	CPSF1; CPSF1	Q10570; E9PIM1	CPSF1	HUM	Unmodified	477770	286770	364120	0	0	0	0	0	0
TLSQWIAENQDSLGSK	MPI; MPI; MPI; MPI;	P34949; H3BQX0	MPI	HUMA	Unmodified	264170	328360	0	0	0	0	0	0	0
TLSSFFTPR	LIG1; LIG1; LIG1; LI	P18858; B4E135;	DNLI1	HUM	Unmodified	1817600	1704300	2113700	0	19114	27483	0	0	0
TLSSPSNRPSGETSVPPPPAVGR	ATXN2L	Q8WWM7	ATX2L	HUM	Unmodified	3366700	2340200	2840400	130510	184300	185620	0	0	34559
TLSSSSMDLSR	KLC2	Q9H0B6	KLC2	HUMA	Oxidation (M)	1317700	1083900	992310	44888	120710	76205	0	0	0
TLSSVQNEVQEALQR	TPR	P12270	TPR	HUMA	Unmodified	1551600	2587400	2853400	0	0	0	0	0	0
TLSYLLPAIVHIN	DDX5; DDX5; DDX5	P17844; A0A7I2	DDX5	HUM	Unmodified	517150	317370	328560	0	0	0	0	0	0
TLSYLLPAIVHINHQPFLER	DDX5; DDX5; DDX5	P17844; A0A7I2	DDX5	HUMA	Deamidation (N)	6425500	4262400	6806200	0	0	0	0	0	0
TLSYLLPAIVHINHQPFLER	DDX5; DDX5; DDX5	P17844; A0A7I2	DDX5	HUMA	Unmodified	10801000	4878300	8942300	0	0	0	0	0	0
TLTAAAVSGAQPILSK	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3	HUM	Unmodified	1073900	0	0	31070	0	0	0	0	0
TLTAAAVSGAQPILSKLEPQIASASEYAHR	PLIN3; PLIN3; PLIN	O60664; K7EL96;	PLIN3	HUM	Unmodified	2060500	2042400	1753100	0	0	0	0	0	0
TLTAEEAEEEWERR	GTF2F1; GTF2F1	P35269; M0R0R9	T2FA	HUMA	Unmodified	2102000	1686400	1649800	0	0	0	0	0	0
TLTALPGLFLQNQPGGGPAAAK	AP4E1; AP4E1; AP4	Q9UPM8; H0YL9	AP4E1	HUM	Unmodified	377690	225860	512680	0	0	0	0	0	0
TLTAVHDAILEDLVFPSEIVGK	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7	HUMA	Unmodified	1979200	525340	1893800	0	0	0	0	0	0
TLTAVHDAILEDLVFPSEIVGKR	RPS7; RPS7; RPS7	P62081; A0A2R8	RS7	HUMA	Unmodified	8145600	2565700	5450100	0	0	0	0	0	0
TLTEPCPLASESR	PIGT; PIGT; PIGT; PI	Q969N2; A0A1W	PIGT	HUMA	Unmodified	2811300	2604900	2211500	0	0	0	0	0	0
TLTFALR	DCPS; DCPS	Q96C86; A0A3B3	DCPS	HUMA	Unmodified	2286300	2070100	2026700	113430	105210	0	23529	0	0
TLTGTAALTVQSQEDNLR	LTA4H; LTA4H	P09960; B4DEH5	LKHA4	HUM	Unmodified	7739100	4562200	4095200	36577	35215	0	27219	0	19961
TLTPAGDLQETFSGMDQVR	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP	HUMA	Oxidation (M)	8195700	8379500	7489400	274860	413240	0	0	0	0
TLTPDQWAR	BOLA2; BOLA2B	Q9H3K6; A0A087	BOLA2	HUM	Unmodified	10494000	8803600	9219600	320600	0	0	0	0	0
TLTPIIQEYFEHGDTNEVAEMLR	PDCD4; PDCD4	Q53EL6; Q5VZS7	PDCD4	HUM	Oxidation (M)	2113000	0	1929900	0	0	0	0	0	0
TLTPIIQEYFEHGDTNEVAEMLR	PDCD4; PDCD4	Q53EL6; Q5VZS7	PDCD4	HUM	Oxidation (M);Deai	1114000	1070100	915920	0	0	0	0	0	0
TLTPISAAYAR	ATIC	P31939	PUR9	HUMA	Unmodified	9112500	13119000	9367900	0	0	0	0	0	0
TLTPLGREQAELTGLR	PGAM5	Q96HS1	PGAM5	HUM	Unmodified	2022700	4897000	3730300	0	0	0	0	0	0
TLTPSYYR	RAB18; RAB18; RAI	Q9NP72; H0Y6T8	RAB18	HUM	Unmodified	2218800	2123300	1834700	122570	0	0	0	0	0
TLTTVQGIADDYDKKK	EIF1B; EIF1; EIF1	O60739; P41567;	EIF1B	HUMA	Unmodified	1054400	1251300	1299600	0	0	0	0	0	0
TLVAHYPPVQVLFEK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUMA	Unmodified	1731200	1351800	1701000	0	0	0	0	0	0
TLVFEQR	TMED5; TMED5; TM	Q9Y3A6; B1AKT	TMED5	HUM	Unmodified	5492400	4711700	6919000	1422300	1127600	1559700	141230	77821	82720
TLVKEVVQNFAK	COTL1; COTL1	Q14019; H3BT58	COTL1	HUM	Unmodified	3244400	3317500	2993900	0	0	0	0	0	0
TLVLLDNLNVR	DDOST; DDOST; DD	P39656; U3KQ84;	OST48	HUM	Unmodified	3743900	2309000	3318500	37905	15940	22947	0	15528	0
TLVLSNLSYSATEETLQEVFEK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	3903800	0	906520	28612	0	28548	0	0	0
TLVNPANVTFK	LYPLA1; LYPLA1; L	O75608; B4DP64;	LYPA1	HUM	Unmodified	6060500	6232900	7503600	49524	48656	0	0	0	0
TLVTQNSGVEALIHAILR	JUP	P14923	PLAK	HUMA	Unmodified	316990	0	94597	0	0	0	0	0	0
TLVTQNSGVEALIHAILR	JUP	P14923	PLAK	HUMA	Deamidation (N)	236800	0	49157	0	0	0	0	0	0
TLVWSEKEQVEK	LTA4H	P09960	LKHA4	HUM	Unmodified	7975000	8229400	7536800	732720	557990	565260	37483	33471	39493
TLWAQLIRPWSLASSSIYVMGR	N/A	N/A	N/A		Oxidation (M)	5566800	2938600	2789200	200110	167080	206560	0	0	0
TLWNGQKLVTTVTEIAG	CAP1	Q01518	CAP1	HUMA	Deamidation (N)	1333700	297530	780320	0	0	0	0	0	0
TLYFLPR	POLA1; POLA1; POI	P09884; A0A7I2	DPOLA	HUM	Unmodified	1772500	2502000	1584700	0	0	0	0	0	0
TLYSFFSPSPAR	UNG	P13051	UNG	HUMA	Unmodified	576010	3901100	4333400	43811	68944	44867	0	0	0
TLYVGNLSR	TIA1; TIAL1; TIA1;	P31483; Q01085;	TIA1	HUMA	Unmodified	14161000	11454000	12522000	352350	329500	357660	0	0	0
TMATFPVAPR	DHX37; DHX37	Q8IY37; F5H3Y4	DHX37	HUM	Oxidation (M)	0	448450	451550	0	0	0	0	0	0
TMATMGDTLASR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	2 Oxidation (M)	1422100	2205500	1921800	349360	211560	217100	0	0	0
TMAVLQIEAEIKAELR	NDUFB5; NDUFB5; I	O43674; E7EWP0	NDUB5	HUM	Oxidation (M)	1427200	1430000	1598800	25619	0	0	0	0	0
TMDFPTPAAAFR	NFU1	Q9UMS0	NFU1	HUMA	Oxidation (M)	4736200	4301300	3991000	40594	46929	26704	0	0	0
TMDKSELVQK	YWHAB; YWHAB; Y	P31946; Q4VY20;	1433B	HUM/	Acetyl (Protein N-t	9457900	8801500	9780800	1102300	1563200	1363400	0	0	0
TMDKSELVQKAK	YWHAB; YWHAB; Y	P31946; Q4VY20;	1433B	HUM/	Acetyl (Protein N-t	2318100	2861500	3154900	585240	498960	636580	0	0	0
TMDKSELVQKAK	YWHAB; YWHAB; Y	P31946; Q4VY20;	1433B	HUM/	Acetyl (Protein N-t	0	0	497830	1187100	1152000	1505200	239970	228240	257530
TMDLPFLEASTLR	PLCG1	P19174	PLCG1	HUM	Oxidation (M)	3979300	1916000	2500800	0	37134	0	0	0	0
TMEAFHFVSYVPITGR	BAP1; BAP1; BAP1	Q92560; C9J7L9;	BAP1	HUMA	Oxidation (M)	338490	553930	378260	0	0	0	0	0	0
TMEIYSK	RFC2; RFC2; RFC2	P35250; A0A087	RFC2	HUMA	Oxidation (M)	0	939210	825520	0	0	0	0	0	0
TMFLPLAER	NAA25; NAA25	Q14CX7; H0YHR	NAA25	HUM	Oxidation (M)	755020	1385200	600180	12597	21088	45606	0	0	0
TMGVMFTPLTVK	EIF3F; EIF3F	O00303; H0YDT6	EIF3F	HUMA	2 Oxidation (M)	6900500	6161200	7017900	240580	236890	309780	0	0	0
TMIISPERLDPFADGGKTPDPK	SF3B1	O75533	SF3B1	HUM/	Oxidation (M)	1986400	0	3353500	0	0	0	0	0	0

TMIQSPSGVILQEAADVHAR	DSP	P15924	DESP_	HUMA	Oxidation (M)	32947000	33998000	32879000	110920	0	0	0	0
TMLEDLGMDDEGDDDPVPLPNVNAAILKK	SKP1; N/A; SKP1; SI	P63208; E5RI56; I	SKP1	HUMA	2 Oxidation (M)	1700400	1216100	1677700	0	0	0	0	0
TMLELLNQLDGFDSR	PSMC1	P62191	PRS4	HUMA	Oxidation (M)	432880	135940	154950	0	0	0	0	0
TMLELLNQLDGFEATK	PSMC5	P62195	PRS8	HUMA	Oxidation (M)	660130	0	942460	0	0	0	0	0
TMLELLNQLDGFQPNTQVK	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A	HUM	Oxidation (M)	3674200	4776600	2305500	0	0	0	0	0
TMLESAGGLIQTAR	TLN1	Q9Y490	TLN1	HUMA	Oxidation (M)	5921900	7589500	5967700	382060	345180	273540	48663	72905
TMLESLIADK	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Oxidation (M)	2864000	1927500	698640	63958	18675	42855	0	0
TMLITHMQDLQEVTQDLHYENFR	SEPTIN2; SEPTIN2	Q15019; B5MCX	SEPT2	HUM	2 Oxidation (M)	4143300	3592200	4387500	0	0	0	0	0
TMLITHMQDLQEVTQDLHYENFRSER	SEPTIN2; SEPTIN2	Q15019; B5MCX	SEPT2	HUM	2 Oxidation (M)	2705600	2389600	0	0	0	0	0	0
TMLITHMQDLQEVTQDLHYENFRSER	SEPTIN2; SEPTIN2	Q15019; B5MCX	SEPT2	HUM	2 Oxidation (M);De	2285500	0	2489500	0	0	0	0	0
TMLLLSR	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD	HUM	Oxidation (M)	0	1636200	0	0	159870	219170	0	25763
TMLLQPAGSLGSYSYR	PTGDS; PTGDS; PTC	P41222; H0Y5A1;	PTGDS	HUM	Oxidation (M)	0	0	0	0	129580	0	0	0
TMLYTPQEMK	RUVBL1; RUVBL1;	Q9Y265; E7ETR0	RUVB1	HUM	2 Oxidation (M)	2962000	2745900	4818900	0	0	0	0	0
TMLYTPQEMKQIIK	RUVBL1; RUVBL1;	Q9Y265; H7C4G5	RUVB1	HUM	2 Oxidation (M)	0	3882000	2146100	0	0	0	0	24758
TMMACGGSIQTSVNALSADVLGR	CCT7	Q99832	TCPH	HUMA	2 Oxidation (M)	983980	776850	965660	0	0	0	0	0
TMNIYFPK	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	Oxidation (M)	544410	550890	523360	0	0	0	0	0
TMNLNPMILTNILSSPYFK	PRPF38B	Q5VTL8	PR38B	HUM	2 Oxidation (M)	0	93903	0	0	0	0	0	0
TMNNFLDREQYGQYALAVR	DSG1	Q02413	DSG1	HUMA	Oxidation (M)	1289900	2373000	1226500	18188	18915	0	0	0
TMNNFLDREQYGQYALAVR	DSG1	Q02413	DSG1	HUMA	Oxidation (M);Deai	0	875580	1159100	0	0	0	15621	0
TMPALQIPTICSPDVMKPR	N/A	N/A	N/A		2 Oxidation (M)	0	1115200	568680	0	0	0	0	0
TMQALPYSTVGNSNNYLHLSVLR	C3	P01024	CO3	HUMA	Oxidation (M);2 De	568820	1608500	3860400	0	0	0	0	0
TMQFEPSTAVYDACRVIRER	TLN2	Q9Y4G6	TLN2	HUMA	3 Methyl (KR)	0	601240	770080	730280	829300	550090	438140	0
TMQLNLSR	UBR4; UBR4	Q5T4S7; A0A0A0	UBR4	HUMA	Oxidation (M)	358780	505340	457100	0	0	198480	0	0
TMQNTSDLDTAR	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUMA	Oxidation (M)	1176400	1466400	1177700	194830	298800	227260	0	0
TMQNTSDLDTAR	JUP; JUP; JUP; JUP;	P14923; C9JTX4;	PLAK	HUMA	Oxidation (M);Deai	342990	448170	391140	57225	82006	0	0	0
TMQTLLSLVR	HPRT1	P00492	HPRT	HUMA	Oxidation (M)	5408400	4278400	1675200	0	9067.9	0	0	0
TMSQKEMEQLFSQYGR	ELAVL3	Q14576	ELAV3	HUM	2 Oxidation (M)	845780	792390	645540	0	0	0	0	0
TMTLFSALR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	9463300	10071000	9303200	316280	218530	189250	10264	0
TMTQKDVEDMFSR	ELAVL1; ELAVL1; I	Q15717; M0R055	ELAV1	HUM	2 Oxidation (M)	37428000	25695000	29144000	687810	620870	707340	0	0
TMTTVLDPKR	FHOD1; FHOD1	Q9Y613; J3KTH7	FHOD1	HUM	Oxidation (M);2 M	0	0	0	0	0	0	0	0
TMVEEDLQR	GOLGA3	Q08378	GOGA3	HUM	Oxidation (M)	363650	277890	366270	0	0	0	0	0
TMYLEDR	RAB6A; RAB6B; RA	P20340; Q9NRW1	RAB6A	HUM	Oxidation (M)	1741800	2231000	2602800	57866	51844	59225	0	0
TMYVLPFSMGPVGSPLSR	PCK2; PCK2; PCK2;	Q16822; H0YM31	PCKGM	HUM	2 Oxidation (M)	21385000	14078000	11923000	152230	11893	119160	34834	35351
TNADTDGMVKILGQK	DLD; DLD	P09622; E9PEX6	DLDH	HUM	Oxidation (M)	0	0	0	120980	75013	105490	0	0
TNADTDGMVKILGQK	DLD; DLD	P09622; E9PEX6	DLDH	HUM	Oxidation (M);Deai	0	0	0	57315	57949	62195	0	0
TNEAQAIETAR	UBE2NL; UBE2N; UI	Q5JXB2; P61088;	UE2NL	HUM	Unmodified	8574300	8683200	7831500	501360	390000	372220	0	0
TNEAQAIETAR	UBE2NL; UBE2N; UI	Q5JXB2; P61088;	UE2NL	HUM	Deamidation (N)	2649600	3619100	2768200	0	99219	69701	0	0
TNEGVIEFR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Unmodified	16391000	15965000	0	1874100	1855800	1856000	0	37543
TNEGVIEFR	SRSF6; SRSF6; N/A;	Q13247; A0A590	SRSF6	HUM	Deamidation (N)	11092000	8563700	10404000	252620	332010	725170	0	0
TNEKVELQELNDR	VIM; DES; VIM; VIN	P08670; P17661; I	VIME	HUMA	Deamidation (N)	405980	785550	717640	102850	105030	158440	0	0
TNEKVELQELNDR	VIM; DES; VIM; VIN	P08670; P17661; I	VIME	HUM	2 Deamidation (N)	0	118040	389840	76678	64016	75267	0	0
TNEKVELQELNDRFANYIDKVR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Deamidation (N)	4681900	0	2788100	0	0	0	0	0
TNEKVELQELNDRFANYIDKVR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	Unmodified	5249200	5866400	6012100	0	0	0	0	0
TNEKVELQELNDRFANYIDKVR	VIM; VIM; VIM	P08670; B0YJC4;	VIME	HUMA	2 Deamidation (N)	2537100	0	1197600	0	0	0	0	0
TNFFGTR	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1	HUMA	Deamidation (N)	1343500	0	1279400	0	88011	0	0	0
TNFFGTR	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1	HUMA	Unmodified	2662300	2892600	2542600	55422	45387	0	0	0
TNFHQRFESPESQASAEQPEM	VPS26A	O75436	VPS26A	HUM	Oxidation (M);Deai	0	0	0	0	145130	184150	0	59393
TNGKEPELLEPIPYEFMA	RPL21	P46778	RL21	HUMA	Oxidation (M);Deai	47210000	38025000	44604000	78445	0	71313	76829	0
TNGKEPELLEPIPYEFMA	RPL21	P46778	RL21	HUMA	Oxidation (M);Met	801740	982480	505330	0	0	0	0	0
TNIDESAMPPPPQGVK	RAD21; RAD21	O60216; E5RFZ5	RAD21	HUM	Oxidation (M)	656190	0	1808200	0	0	75520	0	0
TNIDESAMPPPPQGVKR	RAD21; RAD21	O60216; E5RFZ5	RAD21	HUM	Oxidation (M)	518280	5723600	0	0	170280	139190	0	0
TNIFQIQR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1	HUM	Unmodified	1905100	1840400	1490100	219340	137010	134330	0	0
TNIGKFDMIWDR	TPMT	P51580	TPMT	HUM	Oxidation (M)	510650	761540	1366800	0	0	0	0	0
TNIIPVLEDAR	FBLL1	A6NHQ2	FBLL1	HUM	Unmodified	7572600	8960200	4289000	101160	31087	110430	0	0
TNIQQAVAAAPWWLPVK	SUMF1; SUMF1	Q8NBK3; F5GXA	SUMF1	HUM	Unmodified	345580	440720	277190	0	0	0	0	0
TNIVALLQK	MORC2; MORC2; M	Q9Y6X9; A0A6Q8	MORC2	HUM	Unmodified	638490	704880	481170	20846	9785.4	8864.6	0	0
TNIVTASVDAINFHDKIR	ACOT7; ACOT7	O00154; K7EKP8	BACH	HUM	Unmodified	869700	1395200	1576200	0	0	0	0	0
TNKGMAFTLQER	ME2; ME2; ME2; ME	P23368; A0A1W2	MAOM	HUM	Oxidation (M)	607670	0	429710	47851	54444	0	0	0
TNLASTVLSLK	DHX8; DHX8	Q14562; F5H658	DHX8	HUMA	Unmodified	581600	465450	578730	0	0	0	0	0
TNLDESDVQPVKEQLAQAMFDHIPVGVGSK	RTCB	Q9Y3I0	RTCB	HUMA	Oxidation (M)	25608000	21590000	17344000	31972	0	0	0	0
TNLDESDVQPVKEQLAQAMFDHIPVGVGSK	RTCB	Q9Y3I0	RTCB	HUMA	Oxidation (M);Deai	1587800	1285600	1143300	0	0	0	0	0
TNLEDVGR	TSFM	P43897	EFTS	HUMA	Unmodified	0	311380	342880	0	0	12476	0	0
TNLEEFASK	SNF8; SNF8; SNF8; S	Q96H20; D6RJ86;	SNF8	HUMA	Unmodified	546630	609150	0	0	0	0	0	0
TNLIVNYLPQNMTQDELR	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Oxidation (M)	9284900	8534100	8184700	0	45880	15640	18503	0
TNLIVNYLPQNMTQDELR	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Oxidation (M);2 De	2052800	1912000	1604200	0	0	0	0	0
TNLIVNYLPQNMTQDELR	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Oxidation (M);Deai	6006100	5846100	6264200	0	0	0	0	0
TNLKAEAETLVSR	CHDH	Q8NE62	CHDH	HUM	Unmodified	354940	748570	495990	13044	16336	0	0	0
TNLLLQAHLSR	SNRNP200	O75643	U520	HUMA	Unmodified	866120	539330	656920	0	0	0	0	0
TNLNKVPSEVVPNPK	NACA	E9PAV3	NACAM	HUM	3 Methyl (KR);3 D	2123100	2175800	1505600	0	0	0	0	0
TNLPIFK	SNX12; SNX3; SNX1	Q9UMY4; O6049	SNX12	HUM	Unmodified	2467400	2845800	2833800	102310	93535	75259	0	0
TNNHMLKLAMDLKGK	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	2 Oxidation (M);2 I	338270	228230	0	0	0	0	0	0
TNNPLPLEQR	XPO7; XPO7; XPO7	Q9UIA9; H0YBE1	XPO7	HUMA	Unmodified	1186200	1308700	1295100	0	0	76376	0	0
TNPEIQSTLR	CASP14	P31944	CASPE	HUM	Unmodified	0	545270	0	324540	356110	417040	0	0
TNPPGGKGSGIFDESTPVQTR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2	HUMA	Unmodified	3646000	3085600	2618100	0	0	448420	136050	0
TNPPLIQEKPAK	EIF4G2; EIF4G2; EIF	P78344; H0Y3P2;	IF4G2	HUMA	Unmodified	2263600	2885100	1802300	97950	71429	0	0	0
TNQELQEINR	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	3770000	4059400	2630600	1355000	1954000	1721000	0	0
TNQFSVTR	ERGIC3; ERGIC3; EI	Q9Y282; H0Y6Z0	ERGI3	HUM	Unmodified	639650	1228700	744970	0	20876	20471	0	0
TNQFSVTR	ERGIC3; ERGIC3; EI	Q9Y282; H0Y6Z0	ERGI3	HUM	Deamidation (N)	523690	508710	574290	0	0	0	0	0
TNQLLQDIK	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2	HUM	Unmodified	1255000	1363400	1068400	0	0	0	0	0
TNSTFNQVVLKR	RPL18; RPL18; RPL	Q07020; A0A075	RL18	HUMA	Deamidation (N)	5182000	6505700	4039100	0	60432	0	0	0
TNSTFNQVVLKR	RPL18; RPL18; RPL	Q07020; A0A075	RL18	HUMA	2 Deamidation (N)	547280	541170	1142600	0	0	0	0	0
TNTLAVTGGEDDKAFVWR	AAMP; AAMP; AAM	Q13685; C9JTS3;	AAMP	HUM	Unmodified	1368600	1480400	1230000	0	0	0	0	0
TNVEKADKQR	TEKT1; TEKT1; TEK	Q969V4; I3L357;	TEKT1	HUM	Acetyl (Protein N-t	0	389710	0	0	0	0	0	0
TNVLYELAQYASEPSEQELLR	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUMA	Unmodified	406100	81443	248170	0	0	0	0	0
TNVLYELAQYASEPSEQELLRK	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUMA	Unmodified	1648000	2382900	1091500	0	0	0	0	0
TNVPDIR	AMPD2; AMPD2; AI	Q01433; H0YF16;	AMPD2	HUM	Unmodified	0	1525800	1939800	109950	129250	176280	0	0
TNVVTMPTAHPR	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	Oxidation (M)	1927700	1285900	1476400	0	271730	284450	0	0
TNYNDRYDEIR	RPL7A; RPL7A	P62424; Q5T8U2	RL7A	HUMA	Unmodified	737920	636050	888360	0	0	0	0	0
TNYNDRYDEIR	RPL7A; RPL7A	P62424; Q5T8U2	RL7A	HUMA	Deamidation (N)	1016500	1052900	923490	0	0	0	0	0
TNYNDRYDEIR	RPL7A; RPL7A	P62424; Q5T8U2	RL7A	HUMA	2 Deamidation (N)	512990	741990	623570	0	0	0	0	0
TNYQAYR	RFC1; RFC1	P35251; H0Y8U4	RFC1	HUMA	Unmodified	351150	636140	256460	0	20890	0	0	0
TPAAAAAMNLASPR	SRRM2	Q9UQ35	SRRM2	HUM	Oxidation (M)	6479900	5909300	5532500	85440	255140	327780	0	16875
TPAAETLSQLGQTLQSLK	NPTX1	Q15818	NPTX1	HUM	Unmodified	1666000	1173500	1075800	0	0	0	0	0
TPAAIPATPVAVSQPIR	AFDN; AFDN; AFDN	P55196; Q5TG5;	AFAD	HUM	Unmodified	1469600	1670700	1591000	160260	152760	164970	0	0
TPAALAALSLTGSGTPPTAANYPSSSR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	14095000	4813900	4775300	152960	41180	0	49603	20432
TPADCPVIAIDSFR	ERP44	Q9BS26	ERP44	HUM	Unmodified	2022500	1413700	1882300	52102	39571	51627	0	0
TPAFAESVTEGDVR	DLST; DLST; DLST;	P36957; Q86SW4;	ODO2	HUMA	Unmodified	11463000	8911700	9852800	343410	339300	300670	9646.5	0
TPAFAESVTEGDVRWEK	DLST; DLST; DLST;	P36957; Q86SW4;	ODO2	HUMA	Unmodified	24282000	25794000	29353000	259810	214270	115020	110900	89222
TPAIPTAVNLADSR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	8010700	7069800	9113600	323800	340420	389930	49695	0
TPAIPTAVNLADSRTPAAAAAMNLASPR	SRRM2	Q9UQ35	SRRM2	HUM	Oxidation (M)	3498700	1599200	1514100	0	0	0	0	0
TPALIVYGDQDPMGQTSFEHLK	ABHD14B; ABHD14	Q96IU4; F8W9U3	ABHEB	HUM	Oxidation (M)	0	0	0	0	0	0	0	0
TPALVFEHVNNTDFK	CSNK2A3; CSNK2A	Q8NEV1; P68400	CSK23	HUM	Deamidation (N)	939920	761890	905290	0	0	0	0	0
TPANEKVEIQK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1	HUM	Unmodified	643660	643650	0	0	0	0	0	0
TPANEKVEIQK	RSL1D1; RSL1D1	O76021; J3QSV6	RL1D1	HUM	Deamidation (N)	921580	1058400	690280	39788	0	29021	0	0
TPAQFDADELR	ANXA1; ANXA1	P04083; Q5T3N1	ANXA1	HUM	Unmodified	756590	2618300	941180	0	0	61834	0	0
TPAQYDASELK	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Unmodified	1041200	726330	925090	0	0	0	0	0
TPASINATPANINLADLTR	SUPT6H	Q7KZ85	SPT6H	HUM	Unmodified	708420	1544100	813730	0	0	0	0	0
TPASINATPANINLADLTR	SUPT6H	Q7KZ85	SPT6H	HUM	Deamidation (N)	676690	1341000	365370	0	0	0	0	0
TPASPVVHIR	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL	HUM	Unmodified	1833600	2121400	5638000	0	48751	44259	0	0
TPATAPVPAR	XRCC1; XRCC1	P18887; F5H8D7	XRCC1	HUM	Unmodified	4115500	4651100	3887400	340000	338070	303740	64808	25519
TPAVEGLTEAEEEELR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Unmodified	1304600	2262900	2144000	20711	0	0	0	0
TPAVEGLTEAEEEELRAELTK	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Unmodified	3592000	2412200	3506100	0	0	0	0	0
TPAVEGLTEAEEEELRAELTKVEEEIVTLR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54	HUM	Unmodified	256030	0	0	0	0	0	0	0
TPAYIPIR	COLGALT1; COLGA	Q8NBJ5; M0QYH	GT251	HUM	Unmodified	1777200	1531200	1661900	65215	97998	64878	0	0
TPCEEILVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	2041600	759720	1467700	0	0	0	0	0
TPCQQELDQVLER	IGFBP2; IGFBP2; IGI	P18065; C9JW52;	IBP2	HUMA	Unmodified	978800	997320	1022900	40178	27584	32087	0	0
TPDPKMNARTYMDVMREQHLTK	SF3B1	O75533	SF3B1	HUM	2 Oxidation (M);2 I	2252600	1872600	2287900	0	0	0	0	0
TPDQAILWLWK	QSOX2; QSOX2	Q6ZRP7; H0Y430	QSOX2	HUM	Unmodified	158000	91261	362290	0	0	0	0	0
TPDTSTYCYETAFKITR	MAP1B	P46821	MAP1B	HUM	Unmodified	0	0	476440	109310	146050	145550	0	0
TPEAPAHSEKPR	SPATS2L; SPATS2L	Q9NUQ6; B8ZZZ	SPS2L	HUM	Unmodified	301710	408530	407990	44161	0	40534	0	0
TPEAVQKLLEQGLR	FASN; FASN	P49327; A0A0U1	FAS	HUMA	Unmodified	1050200	668670	1033600	0	0	0	0	0
TPEAVQKLLEQGLR	FASN; FASN	P49327; A0A0U1	FAS	HUMA	Methyl (KR)	2134800	2631300	2163800	0	0	0	0	0
TPEEEPLNLEGLVAHR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	304860	416810	0	20508	0	0	59733	0
TPEEGGYSYDISEK	MAP1B	P46821	MAP1B	HUM	Unmodified	1476500	1285100	933340	127380	79449	119770	0	0
TPEEYPESAK	DDAH1; DDAH1	O94760; B4DYP1	DDAH1	HUM	Unmodified	6331100	5669200	4092400	0	138520	158410	0	0
TPEEYPESAKVYEK	DDAH1; DDAH1	O94760; B4DYP1	DDAH1	HUM	Unmodified	3990300	4161200	4558000	0	0	0	0	0
TPEILTVNSIGQLK	NUP43	Q8NFH3	NUP43	HUM	Deamidation (N)	3151600	2316700	2553900	0	0	9643.4	0	0
TPEIVAPQSAHAAFNK	SGPL1	O95470	SGPL1	HUM	Unmodified	0	0	1507300	0	0	0	0	0
TPEIYLAYR	SMARCC2; SMARCC	Q8TAQ2; Q92922	SMRC2	HUM	Unmodified	2857300	2339400	2153000	35047	43136	39285	0	0
TPELNLDQFHDK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Unmodified	6301800	4918500	5037300	0	59685	63047	0	0
TPELNLDQFHDKTPYTIMFGPDK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Oxidation (M)	3902300	4567100	4182500	0	0	0	0	0
TPELTWER	AHCYL1; AHCYL2;	O43865; Q96HN2	SAHH2	HUM	Unmodified	4356800	3068400	5184400	131700	146700	120820	0	0

TPENLITEIR	HAUS6; HAUS6; HA	Q7Z4H7; Q5SYF9	HAUS6	HUM	Unmodified	1165600	1503700	1163700	36200	21655	0	0	0	0
TPEPVVPTAPELQPSTSTDQPVTSEPTSQVTR	MDC1; MDC1	Q14676; H0Y6Z8	MDC1	HUM	Unmodified	0	0	2033900	0	0	0	0	0	0
TPEPVVPTAPELQPSTSTDQPVTSEPTYQATR	MDC1	Q14676	MDC1	HUM	Unmodified	1191100	1242200	1370600	0	0	0	0	0	0
TPEPVVPTAPEPHPTTSTDQPVTPK	MDC1	Q14676	MDC1	HUM	Unmodified	2027200	2053500	4064700	0	0	0	0	0	0
TPEQCPSVVSLLSESYNPHVR	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TPEQVAEEEYLLQELR	DMAP1; DMAP1; DN	Q9NPF5; Q5TG40	DMAP1	HUM	Unmodified	665420	769750	562780	0	0	0	0	0	0
TPESIVPIAPELQPSTSR	MDC1	Q14676	MDC1	HUM	Unmodified	0	2826200	4978500	31806	28010	20813	0	0	0
TPETLLPFAEAEAFLK	MAP7D1	Q3KQU3	MA7D1	HUM	Unmodified	345340	239590	246860	0	0	0	0	0	0
TPETLLPFAEAEAFLKK	MAP7D1	Q3KQU3	MA7D1	HUM	Unmodified	2140000	1499400	1425400	0	0	0	0	0	0
TPETVVPAAPELQPSTSTDQPVTPEPTSR	MDC1	Q14676	MDC1	HUM	Unmodified	2186500	2277300	1455600	0	41465	0	0	0	0
TPETVVPTALELQPSTSTDRPVTSEPTSQATR	MDC1; MDC1	Q14676; H0Y6Z8	MDC1	HUM	Unmodified	2256000	3137400	3061200	0	0	0	0	0	0
TPETVVPTAPELQASASTDQPVTSEPTSR	MDC1	Q14676	MDC1	HUM	Unmodified	2642900	2332100	1859400	0	0	0	0	0	0
TPETVVPTAPELQISTSTDQPVTPKPTSR	MDC1	Q14676	MDC1	HUM	Unmodified	3950200	3384500	3905900	0	0	0	0	0	0
TPETVVPTAPELQPSTSTDQPVTPEPTSQATR	MDC1	Q14676	MDC1	HUM	Unmodified	0	3140700	3883700	0	0	0	0	0	0
TPEVTCVVVDVSHEDPEVK	IGHG1; IGHG1; IGH	P01857; A0A0A0	IGHG1	HUM	Unmodified	5797300	4885500	4698800	128030	0	0	0	0	0
TPFGAYGGLLK	ACAA2; ACAA2	P42765; A0A0B4	THIM	HUM	Unmodified	1958500	1411000	1631300	0	0	0	0	0	0
TPFGAYGGLLKDFTATDLSEFAAK	ACAA2; ACAA2	P42765; A0A0B4	THIM	HUM	Unmodified	343280	135680	269660	0	0	0	0	0	0
TPFGPLSSR	FOXK1	P85037	FOXK1	HUM	Unmodified	0	714290	0	47890	0	0	0	0	0
TPFLLSGTSYK	HADHB; HADHB; H	P55084; C9JEY0;	ECHB	HUM	Unmodified	4487600	4389700	3834800	18992	0	21349	0	0	0
TPFLLSGTSYKDLMPHDLAR	HADHB; HADHB; H	P55084; C9JEY0;	ECHB	HUM	Oxidation (M)	14457000	11868000	9049500	0	0	0	0	0	0
TPGDPSESR	POP1	Q99575	POP1	HUM	Unmodified	767650	254340	310380	0	0	0	0	0	0
TPGGVFLNLLK	PHAX	Q9H814	PHAX	HUM	Unmodified	527520	0	404590	0	0	0	0	0	0
TPGIGPVLPLEER	FGD4; FGD4; FGD4;	Q96M96; B7Z493	FGD4	HUM	Unmodified	1293200	873040	892470	38893	45233	23837	0	0	0
TPGKEAVAMESYAK	CCT2; CCT2	P78371; F5GWF6	TCPB	HUM	Oxidation (M)	4542400	3719700	4351400	0	178490	0	0	0	0
TPGPGAQSALR	RPS14; RPS14; RPS1	P62263; E5RH77;	RS14	HUM	Unmodified	42853000	36473000	42744000	2124300	2284000	2366400	133620	53848	0
TPGTGSLAAAVETASGR	PDXP	Q96GD0	PLPP	HUM	Unmodified	2326600	2492900	2032200	0	0	0	0	0	0
TPGTPGTPSYPR	MAP2; MAP2	P11137; A0A669	MTAP2	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TPHPVLTPVAANQAK	NUP214; NUP214; N	P35658; H0Y837;	NU214	HUM	Unmodified	1004200	1169700	1242300	126240	126310	89838	0	0	0
TPHTPGTPK	MAP2; MAP2	P11137; A0A669	MTAP2	HUM	Unmodified	3269000	2270500	882310	0	0	0	0	0	0
TPHVLVLGSGVYR	CAD; CAD	P27708; F8VPD4	PYR1	HUM	Unmodified	1506100	1380600	2415700	21560	24927	0	0	0	0
TPHYGSQTPLHDGSR	SUPT5H	O00267	SPT5H	HUM	Unmodified	1166500	864610	0	0	0	0	0	0	0
TPIAAGHPSMNLLLR	IDH3A; IDH3A; IDH3	P50213; H0YMU3	IDH3A	HUM	Oxidation (M)	2717900	2444700	2474200	0	0	0	0	0	0
TPIGSFLGSLSLLPATK	ACAT1; ACAT1; AC	P24752; E9PRQ6;	THIL	HUM	Unmodified	510970	331900	423740	0	0	0	0	0	0
TPIGTPAMNMATPTPGHIMSMTPEQLQAWR	SF3B1	O75533	SF3B1	HUM	4 Oxidation (M)	2157700	0	805340	0	0	0	0	0	0
TPIILSKPPAER	SMG9; SMG9; SMG9	Q9H0W8; M0QYI	SMG9	HUM	Unmodified	1107800	820580	997640	0	48918	48213	26622	0	0
TPIPLLLR	SRCAP; SRCAP; N/A	Q6ZRS2; A0A0A	SRCAP	HUM	Unmodified	799980	540260	830240	0	9198.6	8278.6	0	0	0
TPIQVLHEYGMK	PRKRA; PRKRA; PR	O75569; F8WEG8	PRKRA	HUM	Oxidation (M)	2303100	2146500	0	0	60320	51800	0	0	0
TPKGPSSVEDIK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Unmodified	2558400	2457600	3075800	171320	176590	117990	0	0	0
TPKGPSSVEDIK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Methyl (KR)	2938600	3682900	3070100	36590	65047	53104	0	0	0
TPKGPSSVEDIKAK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Unmodified	6463800	6145200	8231400	428170	315170	367080	0	0	22680
TPKGPSSVEDIKAK	NPM1; NPM1; NPM1	P06748; A0A7Z	NPM	HUM	Methyl (KR)	1669300	1383900	1355100	0	0	0	0	0	0
TPKPVEPAASDLEPFTPTDQSVTPEAIAQGGQSK	MDC1	Q14676	MDC1	HUM	Unmodified	1801200	0	1809400	0	0	0	0	0	0
TPLENLVLQAK	DHX30; DHX30	Q7L2E3; H7BXY7	DHX30	HUM	Unmodified	1310500	1607200	1395800	0	0	0	0	0	0
TPLEQEIFNLLHK	UTP14A; UTP14C; U	Q9BVJ6; Q5TAP6	UTP14A	HUM	Unmodified	936160	597390	596280	0	0	0	0	0	0
TPLFDQIIDMLRVEQVK	ALDH18A1	P54886	P5CS	HUM	Oxidation (M)	1482400	728710	854040	0	0	0	0	0	0
TPLFGVDFLQLPR	GMIP; GMIP	Q9P107; K7EJC2	GMIP	HUM	Unmodified	348130	152800	349480	0	0	0	0	0	0
TPLGDTTHTCPR	IGHG3; IGHG3; IGH	P01860; A0A4W9	IGHG3	HUM	Unmodified	1674700	1489100	1611500	150610	274600	277010	0	73148	72933
TPLGPLSSR	FOXK2; FOXK2	Q01167; E9PPI7	FOXK2	HUM	Unmodified	2214600	1756200	1821700	0	0	0	0	0	0
TPLHEIALSIK	DHX9	Q08211	DHX9	HUM	Unmodified	7452100	5863300	5198900	0	0	0	0	0	0
TPLIADVYYIVGGTSPR	NAAA; NAAA; NAA	Q02083; B4DVL2	NAAA	HUM	Unmodified	586990	368180	727470	0	0	0	0	0	0
TPLLDDPVFIHPSSVLFK	DHX37; DHX37	Q8IY37; F5H3Y4	DHX37	HUM	Unmodified	450490	422300	465630	0	0	0	0	0	0
TPLLLMLGQEDR	APEH; APEH	P13798; C9JIF9	ACPH	HUM	Oxidation (M)	162720	289020	225120	0	0	11500	0	0	0
TPLQGILQLGQELKPK	HIP1R	O75146	HIP1R	HUM	Unmodified	9574500	3396100	4132100	0	0	0	0	0	0
TPLSDSGVTQR	OSGEP	Q9NPF4	OSGEP	HUM	Unmodified	2679900	2676000	2119300	142240	133680	96717	0	37164	0
TPLSEAEFEEIMNR	CPSF6; CPSF6	Q16630; F8WJN3	CPSF6	HUM	Oxidation (M)	7307700	17882000	24324000	499600	563720	663060	22170	0	25513
TPLTATLSK	IGHA1; IGHA1	P01876; A0A286	IGHA1	HUM	Unmodified	8291600	7353300	8358100	655460	638550	643690	171380	159140	0
TPLTQDPASITDNLLQLPAR	ESS2	Q96DF8	ESS2	HUM	Unmodified	835850	576390	709960	0	0	0	0	0	0
TPLVSVLLEGPPHSGK	NSF; NSF	P46459; I3L0N3	NSF	HUM	Unmodified	982190	1045800	0	0	0	0	0	0	0
TPLYLDLR	MEMO1	Q9Y316	MEMO1	HUM	Unmodified	1573500	1519500	1196600	37906	0	42672	0	0	0
TPLYLQPDAYGSLDR	PPP1R13L	Q8WUF5	IASPP	HUM	Unmodified	0	1068200	719510	0	0	27345	0	0	0
TPMENIGLQDSLLSR	MCM3; MCM3; MC3	P25205; A0A499	MCM3	HUM	Oxidation (M)	1126500	1384700	0	0	0	0	7054.4	0	0
TPMGIVLDALEQQEEGINR	ARL6IP5	O75915	PRAF3	HUM	Oxidation (M)	4719600	4253600	2031400	0	0	0	16950	0	0
TPMGLLLEALGQEQEAGS	PRAF2; N/A	O60831; A6NM71	PRAF2	HUM	Oxidation (M)	1589700	1451200	694560	0	0	0	0	0	0
TPMSVLQQAGGSMMDGPGPR	SRRM2	Q9UQ35	SRRM2	HUM	3 Oxidation (M)	14758000	16543000	15297000	457930	668970	855390	88102	31329	0
TPNGVVLAPVQLGK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Deamidation (N)	497420	348870	347460	0	12303	0	0	0	0
TPPEAIALCSSLLEYTPSSR	GSK3A; GSK3A; GSI	P49840; A0A7Z	GSK3A	HUM	Unmodified	0	272880	547220	0	0	0	0	0	0
TPPLITDYREYHTDTTVK	TOP2A	P11388	TOP2A	HUM	Unmodified	1497200	1919900	1792500	0	0	0	0	0	0
TPPPELLQTLTAVGGIGQLTAAK	HTT; HTT; HTT; HT	P42858; A0A7P0	HD	HUMAN	Unmodified	233170	140920	149780	0	0	0	0	0	0
TPPPVLIFAEK	DDX41	Q9UJV9	DDX41	HUM	Unmodified	672470	685480	710820	12960	0	17240	0	0	0
TPPSFPTPPPWLKPGELER	AUTS2; AUTS2; AU	Q8WXX7; A0A02	AUTS2	HUM	Unmodified	1076400	821510	753350	0	0	0	0	0	0
TPPYADPSLQAPVR	RELA; RELA; RELA	Q04206; A0A087	TF65	HUM	Unmodified	1397300	1091600	1105400	0	0	0	0	0	0
TPQAPASANLVGPR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	11383000	0	20637000	1276600	1343500	1194300	186490	259710	131790
TPQAPASANLVGPR	SRRM2	Q9UQ35	SRRM2	HUM	Deamidation (N)	2700600	4423400	5305200	1102500	977480	1009000	717910	0	0
TPQDPSSVLK	GNL1; GNL1	P36915; A0A140	GNL1	HUM	Unmodified	1503600	1339300	1185300	104100	119670	0	0	0	0
TPQEAIMDGTEIAVSPR	RING1	Q06587	RING1	HUM	Oxidation (M)	4160400	3919500	2401900	26371	126580	18185	0	0	0
TPQEAITDGLEIVVSPR	RNF2; RNF2	Q99496; X6RFN3	RING2	HUM	Unmodified	1068500	762350	1744700	0	0	0	0	0	0
TPQEWAPQTAR	TOR1AIP1; TOR1AI	Q5JTV8; A0A0A0	TOIP1	HUM	Unmodified	1211200	1521700	1167600	214390	170300	193730	20823	0	0
TPQLYVAHEIGTIK	SYTL2; SYTL2; SYT	A0A0U1RQP0; A	A0A0U1RQP	HUM	Unmodified	0	0	0	65507	44926	33452	0	0	0
TPQQTSASQQMLNFPDKGK	SMARCC2	Q8TAQ2	SMRC2	HUM	Oxidation (M)	1589500	1346600	1290300	0	0	0	0	0	0
TPQSSTSSVQR	SCML2	Q9UQR0	SCML2	HUM	Unmodified	123640	0	156660	0	0	0	0	0	0
TPQSVTAK	MTDH; MTDH; MTI	Q86UE4; E5RJU9	LYRIC	HUM	Unmodified	6948800	4587000	3695900	782600	0	527350	0	0	0
TPSDVKELVLDNSR	ANP32A; ANP32A; A	P39687; H7BZ09;	AN32A	HUM	Deamidation (N)	0	0	493150	0	0	43838	0	0	0
TPSDVKELVLDNSR	ANP32A; ANP32A; A	P39687; H7BZ09;	AN32A	HUM	Unmodified	0	0	0	65917	64257	58181	0	0	0
TPSEGEAGTQR	VARS2; VARS2; VA	Q5ST30; A0A0G2	SYVM	HUM	Unmodified	505220	223330	31694	0	16783	0	0	0	0
TPSGLYLGTCER	HSPG2; HSPG2	P98160; H0Y5A9	PGBM	HUM	Unmodified	0	486240	0	228310	240360	227440	135770	163230	176460
TPSIQPSLLPHAAPFAK	NUP214; NUP214; N	P35658; H0YF36;	NU214	HUM	Unmodified	4018300	4713000	4370700	433640	370960	250480	47375	59281	50755
TPSLTVFLLGQSAR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUM	Unmodified	0	0	262540	0	0	0	0	0	0
TPSNELYKPLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	1544700	1302100	2226700	132770	170180	296990	0	0	0
TPSNELYKPLR	PDCD6IP	Q8WUM4	PDC6I	HUM	Deamidation (N)	947180	1230300	910160	130900	65676	116340	0	0	0
TPSNGAEGLTPR	CDC5L	Q99459	CDC5L	HUM	Deamidation (N)	4881000	4914200	5006700	259510	182440	0	0	0	0
TPSSDGTVEVR	IGSF21	Q96ID5	IGS21	HUM	Unmodified	0	1572800	2088000	33036	28336	0	0	0	0
TPSSDVLVFDYTK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7	HUM	Unmodified	7318600	6052900	9839700	154280	144720	176610	0	0	0
TPSSDVLVFDYTKHPAKPDPSGECNPDLR	RBBP7; RBBP7; RBI	Q16576; E9PC52;	RBBP7	HUM	Unmodified	3932300	5226400	4770400	0	0	0	0	0	0
TPSSDVLVFDYTKHPSKPDPSGECNPDLR	RBBP4	Q09028	RBBP4	HUM	Unmodified	1725800	3219100	3954200	0	0	0	0	0	0
TPSVSAPLALSCPR	LIMD1; LIMD1	Q9UGP4; C9JRJ5	LIMD1	HUM	Unmodified	0	0	0	49190	45277	57318	35033	29035	39255
TPTAPAVNLAGAR	SRRM2	Q9UQ35	SRRM2	HUM	Deamidation (N)	2162900	2037400	3047300	0	0	41066	0	0	0
TPTAPAVNLAGAR	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	19794000	15038000	16109000	727130	808400	735180	28442	0	159510
TPTEALASFDYIVR	PTGES2; PTGES2; P	Q9H7Z7; A0A7I2	PGES2	HUM	Unmodified	1552200	2456600	1371700	0	0	0	0	0	0
TPTNARFDSPESHVGVAWR	CBS; CBSL	P35520; P0DN79	CBS	HUMAN	Deamidation (N)	0	555340	0	0	0	0	0	0	0
TPTPEPAEVETR	NRBP1; NRBP1	Q9UHY1; F8W6G	NRBP	HUM	Unmodified	927240	683890	759720	202900	0	275100	0	0	0
TPTPLALR	ANK1; ANK1; ANK1	P16157; H0YBS0;	ANK1	HUM	Unmodified	648320	564710	852770	17348	17774	14950	0	0	0
TPTQPLLESGFR	TNS1; TNS1; TNS1;	Q9HBL0; A0A087	TENS1	HUM	Unmodified	1683400	1584300	2079800	107810	107100	104190	399450	390440	366800
TPTQTNGSNVPFKPR	GTF2I; GTF2I	P78347; A0A494	GTF2I	HUM	Deamidation (N)	5281100	8727000	6350600	352780	1192400	357930	83185	82339	126430
TPTSSPASSPLVAK	RRP1B	Q14684	RRP1B	HUM	Unmodified	1091300	1093900	987940	0	0	0	0	0	0
TPVDVILASVG	COPG2	Q9UBF2	COPG2	HUM	Unmodified	1373400	851120	1015700	0	0	0	0	0	0
TPVEEVPAAIAPFQGR	SF3B3	Q15393	SF3B3	HUM	Unmodified	1917700	2975400	2631400	0	15121	0	0	0	0
TPVEPEVAIHR	RPS20; RPS20; RPS2	P60866; A0A7P0	RS20	HUM	Unmodified	11646000	12714000	12320000	128360	175790	175930	0	22242	0
TPVEVPVGGFK	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	931160	924460	1038300	203880	236060	242730	0	18197	0
TPVEVPVGGFKGR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUM	Unmodified	1017100	557450	835300	306170	0	279130	0	0	0
TPVIDADKPVSSQLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	22861000	17291000	20896000	987780	957980	1189900	98113	114800	0
TPVIDADKPVSSQLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Methyl (KR)	1038100	674420	444990	0	0	0	0	0	0
TPVLFDIYEIK	ANXA11	P50995	ANX11	HUM	Unmodified	796030	583340	421550	0	0	0	0	0	0
TPVLFDIYEIKEAIK	ANXA11	P50995	ANX11	HUM	Unmodified	584070	592120	499060	0	0	0	0	0	0
TPVMNSEAK	WDR43	Q15061	WDR43	HUM	Oxidation (M);Deai	200780	233460	382310	0	11196	17500	0	0	0
TPVPSDIDISR	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUM	Unmodified	9539400	7374400	8076000	189620	183460	209400	14429	14614	10771
TPVSEDMLGR	ATP6V1B2; ATP6V1	P21281; P15313;	VATB2	HUM	Oxidation (M)	11611000	12619000	11429000	275020	319830	234220	12645	0	0
TPVTDPATGAVK	ACADVL	P49748	ACADV	HUM	Unmodified	237180	338130	315370	0	0	0	0	0	0
TPVTDPATGAVKEK	ACADVL	P49748	ACADV	HUM	Unmodified	2557800	4020400	3920000	0	0	0	0	0	0
TPVTQVNEVTGTLR	MRPL49; MRPL49	Q13405; H0YDP7	RM49	HUM	Deamidation (N)	902590	0	1004200	0	0	0	0	0	0
TPVTQVNEVTGTLR	MRPL49; MRPL49	Q13405; H0YDP7	RM49	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TPVVQNAASIVQPSPAHVGQQGLSK	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B	HUM	Deamidation (N)	1270100	0	690590	0	20023	0	0	0	0
TPVVQNAASIVQPSPAHVGQQGLSK	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B	HUM	Unmodified	2582100	2301300	2276000	28194	0	0	0	0	0
TPYIVLSGSGK	SART1	O43290	SNUT1	HUM	Unmodified	2374200	2569200	2670200	290600	166460	72861	0	0	0
TPYLGDVAVVVHPGKK	DPYSL5	Q9BPU6	DPYL5	HUM	Unmodified	1123100	922650	888270	0	0	0	0	0	0
TPYTDVNIVTIR	IDH3A; IDH3A; IDH3	P50213; H0YMU3	IDH3A	HUM	Unmodified	3432900	0	146740	0	0	0	0	0	0
TPYTIMFGPDK	CANX; CANX; CAN	P27824; A0A7P0	CALX	HUM	Oxidation (M)	0	0	1045300	0	30189	0	0	0	0
TQADLDSLVR	DCXR; DCXR; DCX	Q7Z4W1; J3KS22	DCXR	HUM	Unmodified	4211900	2857700	2351600	774550	481080	508830	0	0	0
TQANDYFK	PPP5C; PPP5C	P53041; H0YDU8	PPP5	HUM	Deamidation (N)	450510	424090	364100	0	0	0	0	0	0
TQAPPSVILGVTNPFFAK	DENND6A; DENNDI	Q8IWF6; H7C598	DEN6A	HUM	Unmodified	235750	310030	307590	0	0	0	0	0	0
TQAVFNHTEDYVLLPDER	CSTF1	Q05048	CSTF1	HUM	Deamidation (N)	3609900	2558500	477000	38105	25420	17968	0	0	0
TQDASGPELILPASIEFR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	1760300	1236100	1028500	0	0	0	0	0	0
TQDECILHFLR	SMARCC2; SMARCI	Q8TAQ2; Q92922	SMRC2	HUM	Unmodified	1135100	1223900	974930	0	17334	12759	0	0	0

TQDPAKAPNTPDILEIEFKK	ASS1	P00966	ASSY_HUMA	Unmodified	0	0	0	193850	216740	62650	0	0	0
TQDPSSPGTTPPQAR	CHAF1B	Q13112	CAF1B_HUM	Unmodified	1153800	689350	787510	0	0	0	0	0	0
TQDQISNIK	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	0	1701500	1962200	136670	146430	147810	0	0	0
TQDQISNIKYHEEFEK	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	7109600	7503600	7157200	0	315660	339410	37735	0	0
TQDQISNIKYHEEFEKSR	LASP1; LASP1	Q14847; C9J9W2	LASP1_HUM	Unmodified	5382100	5331500	6193400	431830	660860	1192400	0	0	0
TQEEGEERAESEQEAYLRED	DIABLO; DIABLO	Q9NR28; A0A024	DBLOH_HUM	Unmodified	5804300	5366500	5264000	606890	464280	427670	0	0	0
TQEEIVAK	PDIA4; PDIA4	P13667; A0A499F	PDIA4_HUM	Unmodified	11670000	10136000	8208000	1094000	969530	1119900	0	0	0
TQEGSLSAR	PRKDC	P78527	PRKDC_HUM	Unmodified	19099000	28181000	32881000	1452400	1301400	1039500	0	0	0
TQEGSLSARWPVAGQIR	PRKDC	P78527	PRKDC_HUM	Unmodified	919280	481820	0	331650	0	259650	0	56351	55154
TQEQLALEMAELTAR	MSN	P26038	MOES_HUM	Oxidation (M)	4891600	4569300	4620400	133600	68834	193100	17345	16880	32341
TQETLSQAGQK	TPD52L2; TPD52L2	O43399; A0A087	TPD54_HUM	Unmodified	1243000	1272400	1443300	0	0	0	0	0	0
TQETMLQQRPSVFQGTNGTSVITPLDPTAQLR	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1_HUM	Oxidation (M);Deam	1253900	2241900	0	0	0	0	0	0	0
TQETPSAQMEGFLNR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	1400400	1409300	1936400	223360	203700	178070	0	0	0
TQETPSHLEELEGSAR	TC2N	Q8N9U0	TAC2N_HUM	Unmodified	0	96005	0	333280	374890	314520	162290	159940	0
TQGFLALFSGDTGEIK	RUVBL2; RUVBL2	Q9Y230; M0R0Y	RUVB2_HUM	Unmodified	1865700	1642700	2958000	0	0	0	0	0	0
TQGNVFATDAILATLMSCTR	EIF3D; EIF3D; EIF3D	O15371; B0QYA4	EIF3D_HUM	Oxidation (M)	458140	283480	603930	0	0	0	0	0	0
TQGPILTASGKNPVMELNEK	STRBP	Q96SI9	STRBP_HUM	Oxidation (M)	1057700	914450	2069500	51871	0	62291	0	0	0
TQGVIKYMGPAGAK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2_HUM	Oxidation (M)	2215600	1879600	1472400	0	0	0	0	0	0
TQHIQQPR	DAP	P51397	DAP1_HUM	Unmodified	2051200	1559000	1395600	349770	282670	284430	39087	0	45351
TQIGMTESLLK	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Oxidation (M)	1423900	1373400	1791300	0	0	0	0	0	0
TQIIQDFLR	LIG3; LIG3; LIG3; LI	P49916; K7ERZ5	DNLI3_HUM	Unmodified	842350	765280	575610	0	0	0	0	0	0
TQIPTQR	PSMA1; PSMA1	P25786; F5GX11	PSA1_HUM	Unmodified	4163600	5497600	4571300	0	0	0	0	0	0
TQIQSVEPYTK	STAT3; STAT3; STA	P40763; A0A7I2V	STAT3_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TQISLVR	POLR2B; POLR2B; F	P30876; C9J2Y9;	RPB2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TQKEIEQEAAVELSQLRDPQHDLDR	UQCRFS1	P47985	UCRI_HUM	Unmodified	490860	522490	494830	0	0	0	0	0	0
TQKKAEVEGKDLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Unmodified	3654900	2702900	3111600	648020	555850	713460	22024	35738	0
TQKKAEVEGKDLPEHAVLK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU_HUM	Methyl (KR)	710910	878020	817760	0	59733	35386	0	0	0
TQLAVCQQR	FKBP4; FKBP4	Q02790; H0YFG2	FKBP4_HUM	Unmodified	1853800	1651300	2107400	0	0	0	0	0	0
TQLEELEDELQATEDAK	MYH9; MYH10; MY	P35579; P35580; I	MYH9_HUM	Unmodified	4340800	4544300	4305600	0	0	0	0	0	0
TQLEVRPVVVPK	ROBO1; ROBO1; RO	Q9Y6N7; A0A0A	ROBO1_HUM	Unmodified	1265600	1278300	1322900	0	172210	148030	0	0	0
TQLEWTEAILEDEQTQR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1_HUM	Unmodified	1082700	652410	1085600	0	0	0	0	0	0
TQLIAHDKEVYDIAFSR	DCAF7; DCAF7	P61962; A0A087	DCAF7_HUM	Unmodified	1180200	1142800	1040600	0	0	0	0	0	0
TQLKGSELEITLTR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC_HUMA	Unmodified	0	1152000	1225900	0	0	0	0	0	0
TQLQLDER	SLC25A1	P53007	TXTP_HUMA	Unmodified	4580100	6041900	2270700	0	39635	212550	0	0	0
TQLSLLPR	SART3; SART3	Q15020; A0A499	SART3_HUM	Unmodified	9378200	8849100	7925000	886520	873660	1071000	112880	97055	114700
TQLVSNLK	GOT2	P00505	AATM_HUM	Unmodified	2580300	2816600	3407700	0	27204	33549	0	0	0
TQLWASEPGTPPLPTSLPSQNPILK	SRRT; SRRT	Q9BXP5; H7C3A	SRRT_HUMA	Unmodified	1007800	1158200	961950	0	0	0	0	0	0
TQMAEVLPSPR	TOP2A	P11388	TOP2A_HUM	Oxidation (M)	1321200	3826700	3394800	0	0	0	0	0	0
TQMLDQEELLASTR	KIF5B	P33176	KIN1_HUMA	Oxidation (M)	3190700	1373500	1602800	126310	0	113840	0	0	0
TQMLDQEELLASTRR	KIF5B	P33176	KIN1_HUMA	Oxidation (M)	994470	1020200	1066800	0	0	0	0	0	0
TQNDVDIADVAYYFEK	EPCAM; EPCAM	P16422; B5MCA4	EPCAM_HUM	Deamidation (N)	1054100	627670	858770	0	0	0	0	0	0
TQNDVDIADVAYYFEKDVK	EPCAM; EPCAM	P16422; B5MCA4	EPCAM_HUM	Deamidation (N)	699890	469870	476180	0	0	0	0	0	0
TQNPMVTGTSVLGVK	PSMB4	P28070	PSB4_HUMA	Oxidation (M)	0	913950	0	0	0	0	0	46861	0
TQPDGTSVPGEPASPISQR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	1235800	1317100	1706000	101460	101670	220510	0	0	0
TQPDGTSVPGEPASPISQRLPPKVESLESLYFTPIPAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	1104000	792820	1034900	0	0	0	0	0	0
TQPMTAQAASYR	RBM14	Q96PK6	RBM14_HUM	Oxidation (M)	16003000	14933000	15786000	1016200	1030200	1006000	60033	80160	0
TQPPEDISCIAWNR	SEC31A; SEC31A; SI	O94979; D6RHZ5	SC31A_HUM	Unmodified	872110	355140	0	28959	19096	38319	0	0	0
TQPYDVYDQVEFDVPVGSR	NDUFS2; NDUFS2; N	O75306; A0A7I2	NDUS2_HUM	Unmodified	436020	374110	426700	0	0	0	0	0	0
TQQAAQANITLQEQIEAIHK	SF3A1; SF3A1	O15459; H7C1L2	SF3A1_HUM	Unmodified	4273500	0	3951200	0	0	0	32810	0	0
TQQAAQANITLQEQIEAIHKAK	SF3A1; SF3A1	O15459; H7C1L2	SF3A1_HUM	Unmodified	1272600	941580	974240	69848	0	0	0	0	0
TQQLLER	MRPL38	Q96DV4	RM38_HUMA	Unmodified	4208300	0	3845300	0	0	0	0	0	0
TQQMLHGLQR	RAD21; RAD21; RAI	O60216; E5RI01;	RAD21_HUM	Oxidation (M)	1035600	2015600	2372500	50401	144110	124740	0	0	0
TQQYDDLIDEFMK	ME2; ME2; ME2; MI	P23368; A0A1W2	MAOM_HUM	Oxidation (M)	387550	228220	274520	0	0	0	0	0	0
TQRPADVIFATVR	MCM7	P33993	MCM7_HUM	Unmodified	25891000	20404000	22460000	0	0	0	0	0	0
TQSSASLAASYAAQQHPQAAASYR	RBM14	Q96PK6	RBM14_HUM	Unmodified	29011000	27114000	31756000	1029300	836800	975350	67625	144510	0
TQSSLVPALTDFVR	CUTA; CUTA	O60888; C9IZG4	CUTA_HUM	Unmodified	47507000	47263000	43772000	0	13550	29557	22665	0	22993
TQSTVESLSK	GK; GK3P; GK	P32189; Q14409;	GLPK_HUMA	Unmodified	1208400	725520	632560	63528	55779	0	0	0	0
TQTPPLGQTPQLGLK	EIF4G2; EIF4G2; EIF	P78344; H0YJP2;	IF4G2_HUM	Unmodified	1647300	1369600	1086500	62818	70542	75101	0	20481	0
TQTPPVSPAPQPTEER	CTTN; CTTN; CTTN	Q14247; H0YEV2	SRC8_HUMA	Unmodified	498300	560650	518010	42027	48200	53909	0	0	0
TQTPPVSPAPQPTEERLPSSPVYEDAASFK	CTTN; CTTN; CTTN	Q14247; H0YEV2	SRC8_HUMA	Unmodified	2382400	1977600	2274800	54521	0	0	0	0	0
TQTQRPSLIGLTSGDMDVNPR	RBM27; N/A	Q9P2N5; U3KPZ7	RBM27_HUM	Oxidation (M)	1569400	1559400	1480400	161450	133580	80844	0	0	0
TQTSDPAMLPTMGLLAEAGVR	PHGDH; PHGDH; PH	O43175; A0A2R6	SERA_HUMA	2 Oxidation (M)	1482400	1108700	779210	0	0	0	0	0	0
TQTVCNFTDGALVQHQEWDGKESTITR	FABP5P3; FABP5; F	A8MUU1; Q0146	FB5L3_HUM	Unmodified	4882000	3423400	4409700	22969	31657	0	0	0	0
TQTVCNFTDGALVQHQEWDGKESTITR	FABP5P3; FABP5; F	A8MUU1; Q0146	FB5L3_HUM	Deamidation (N)	1849900	0	768140	0	0	0	0	0	0
TQTVENVEHLQTR	TTI1	O43156	TTI1_HUMA	Unmodified	0	732530	558660	0	0	0	0	0	0
TQVAGGQLSFK	RANGAP1; RANGAI	P46060; B0QYT5	RAGP1_HUM	Unmodified	1866000	1453700	0	0	0	0	0	0	0
TQVELLEAPTPALKR	GYS1	P13807	GYS1_HUMA	Unmodified	2042300	1917900	2283000	306500	259010	282570	63240	68639	75482
TQVELVADPETR	PNKP; PNKP; PNKP;	Q96T60; M0QYI1	PNKP_HUMA	Unmodified	1465400	1566300	1673400	190830	224840	204490	0	0	0
TQVLQPEEK	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	789700	1175100	1195600	0	0	26028	0	0	0
TQVLSPDSLFTAK	AFDN; AFDN; AFDN	P55196; H0Y948;	AFAD_HUMA	Unmodified	1763000	2117800	1651600	231590	227820	181710	15085	17841	0
TQYSSAMLESLLPGIR	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA_HUMAN	Oxidation (M)	1155400	989350	1066100	0	0	0	0	0	0
TRDDEPVCGRPLGIR	APMAP; APMAP	Q9HDC9; H0Y51(	APMAP_HUM	Unmodified	10111000	10761000	11837000	165430	435900	674490	31325	0	0
TRDDGDEEGLLTHSEEELEHSQDTDADDGALQ	RALY	Q9UKM9	RALY_HUM	Unmodified	2058200	2121800	1189400	0	0	0	0	0	0
TRDELDQFLDKMDDPDYWR	BOP1; BOP1	Q14137; A0A075	BOP1_HUMA	Oxidation (M)	2018300	1816200	2058700	0	0	0	0	0	0
TRDELEVIHLIEEHR	RO60	P10155	RO60_HUMA	Unmodified	2039100	2352600	2310400	0	0	0	0	0	0
TRDFKPGDLIFAK	PSIP1	O75475	PSIP1_HUMA	Acetyl (Protein N-t	8944100	9220200	5682300	241260	214230	224740	0	51075	54571
TRDMGGYSTTTDFIK	IDH3B; IDH3B; IDH3	O43837; A0A0D9	IDH3B_HUM	Oxidation (M)	0	0	1059300	0	0	0	0	0	0
TREEECHFYAGGQVYPGEASR	PRDX4; PRDX4	Q13162; A6NG45	PRDX4_HUM	Unmodified	5168800	4412300	3795500	617150	603190	670320	95977	108460	90857
TREEEEDSTIEASDQVSDDTVEMPLPK	TPR	P12270	TPR_HUMAN	Oxidation (M)	1215000	0	1152700	0	0	0	0	0	0
TREGNDLYHEMIESGVINLK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	Oxidation (M);Deam	1476600	1241500	5897800	0	0	0	0	0	0
TREGNDLYHEMIESGVINLK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	1506400	1041900	2289600	0	0	0	0	0	0
TREGNDLYHEMIESGVINLKDATSK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	Oxidation (M);Deam	7849400	8165200	7833600	0	0	0	0	0	0
TREGNDLYHEMIESGVINLKDATSK	ATP5F1B; ATP5F1B;	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	0	0	5391300	0	0	0	0	0	0
TRIEGLLAAFPK	ARCN1; ARCN1; AR	P48444; E9PK34;	COPD_HUMA	Unmodified	927470	1330500	0	0	0	0	0	0	0
TRKPLEALYGYDYFAR	BPHL	Q86WA6	BPHL_HUMA	Unmodified	2616900	3172800	1159800	0	0	0	0	0	0
TRLAADVGK	SLC25A4; SLC25A6;	P12235; P12236; I	ADT1_HUMA	Unmodified	22720000	24429000	27635000	1462400	1426800	1332800	164100	111360	110420
TRLAEMDRDLMVGKLER	LZIC; LZIC	Q8WZA0; K7ES9:	LZIC_HUMA	2 Oxidation (M)	0	1752500	0	0	0	0	0	0	0
TRLAFLNVQAAEEALPR	GPD2	P43304	GPDM_HUM	Unmodified	0	212520	1302800	0	0	0	0	0	0
TRLEEKVEHLEEGPMIEQLSK	MRPL42; MRPL42; I	Q9Y6G3; S4R360	RM42_HUMA	Oxidation (M)	972500	1026700	763600	0	0	0	0	0	0
TRLFSTLDPELMLNPENLPR	GOLGA3	Q08378	GOGA3_HUM	Oxidation (M)	702830	431830	569790	0	0	0	0	0	0
TRNTMSLLAANNLLAGLRGEPMPSELKL	GRHPR	Q9UBQ7	GRHPR_HUM	Oxidation (M);Metl	2416900	0	0	0	0	0	0	0	0
TRNTMSLLAANNLLAGLRGEPMPSELKL	GRHPR	Q9UBQ7	GRHPR_HUM	2 Oxidation (M);De	1032400	1256400	1129300	0	0	0	0	0	0
TRNTMSLLAANNLLAGLRGEPMPSELKL	GRHPR	Q9UBQ7	GRHPR_HUM	2 Oxidation (M);2 I	0	1804400	2293700	0	0	0	0	0	0
TRPEGEPSSLSPEELAFAR	GINS4; GINS4	Q9BRT9; E5RFF9	SLD5_HUMA	Unmodified	2311200	2395700	1708300	0	0	0	0	0	0
TRPGSFQSLSDALSDTPAK	VIPAS39; VIPAS39	Q9H9C1; G3V4K2	SPE39_HUM	Unmodified	990080	708870	793450	0	24644	15407	0	0	0
TRPTTLGSSQFSGSGIDER	TCF12; TCF12	Q99081; H0YNQ5	HTF4_HUMA	Unmodified	1232300	833810	853790	0	0	0	0	0	0
TRRDEPTGEVLSLVGKLEGTR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	9008000	7435200	12001000	0	0	0	0	0	0
TRSDIVSR	PDIA6	Q15084	PDIA6_HUM	Unmodified	17634000	15025000	25241000	1124800	1025100	1573900	0	0	0
TRTFNTSTGGLLLPSDTKR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Deamidation (N)	3378700	719260	2624800	776640	408880	825910	73080	45406	71708
TRTPASINATPANINLADLTR	SUPT6H	Q7KZ85	SPT6H_HUM	Unmodified	682030	881190	633570	0	0	0	0	0	0
TRTPASINATPANINLADLTR	SUPT6H	Q7KZ85	SPT6H_HUM	Deamidation (N)	1658300	1924400	2633000	0	0	0	27088	0	0
TRTSQEELLAEVVQGQSR	ZC3H14; ZC3H14; ZI	Q6PJT7; A0A087	ZC3HE_HUM	Unmodified	1974500	2793400	2212300	105830	83537	74986	75625	56346	50655
TRVPQFSFLDIFPK	RNF213; RNF213; RI	Q63HN8; A0A0A	RN213_HUM	Unmodified	224630	191130	283700	0	0	0	0	0	0
TRWKILPRNQCEACAMNSHR	XPO1	A0A7I2V3J1	A0A7I2V3J1	3 Methyl (KR);2 D	0	0	884040	160480	0	0	0	0	0
TSAALSTVGSAISR	TPD52L2; TPD52L2	O43399; A0A087	TPD54_HUM	Unmodified	2883700	3047100	2618700	0	8452	0	0	0	0
TSAEAPSHHLQQQQQQQQR	TBC1D5; TBC1D5	Q92609; C9J3F6	TBCD5_HUM	Unmodified	0	521300	652870	0	0	183240	0	0	0
TSAGTTDPEEATR	MAP7; MAP7	Q14244; A0A087	MAP7_HUM	Unmodified	861020	0	772520	0	85474	59480	0	0	0
TSALSDETK	PRKDC	P78527	PRKDC_HUM	Unmodified	594400	1833100	995590	0	0	0	0	0	0
TSALSDETKNNWEVSALSR	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	10657000	10748000	10318000	147580	122920	122770	0	0	0
TSALSDETKNNWEVSALSR	PRKDC	P78527	PRKDC_HUM	2 Deamidation (N)	1229700	1361800	1745700	0	0	0	0	0	0
TSALSDETKNNWEVSALSR	PRKDC	P78527	PRKDC_HUM	Unmodified	905610	1133900	997700	27243	28612	0	0	0	0
TSASIILR	TCP1; TCP1; TCP1;	P17987; F5GZ03;	TCPA_HUMA	Unmodified	14521000	13022000	12570000	976350	938450	1098400	176730	143740	149800
TSATKGTGLDEAMEWLVETLK	ARL1; ARL1; ARL1	P40616; B4DZG7;	ARL1_HUMA	Oxidation (M)	86277	0	451370	0	0	0	0	0	0
TSATWLALSR	ATP1A1	P05023	AT1A1_HUM	Unmodified	4602000	3186400	2504200	111070	74489	88331	0	0	0
TSAYGPPTR	WBP11	Q9Y2W2	WBP11_HUM	Unmodified	3283000	3038900	3352900	200820	162890	131560	0	0	0
TSDANETEDHLESLICK	NCBP1; NCBP1	Q09161; F2Z2T1	NCBP1_HUM	Unmodified	419210	0	308800	0	0	0	0	0	0
TSDIFGSPVTATSR	JPT2; JPT2; JPT2; JP	Q9H910; H3BTV5	JUPI2_HUMA	Unmodified	19533000	19432000	15955000	797390	708720	789300	0	0	105820
TSDLIVLGLPWK	TARDBP; TARDBP;	Q13148; A0A087	TADBP_HUM	Unmodified	2036500	2188500	2348800	0	0	0	0	0	0
TSDQTWVKLER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	2404200	1805100	2188400	70212	79424	76677	0	0	0
TSDSPWFLSGSETLGR	UBR5; UBR5	O95071; E7EMW	UBR5_HUMA	Unmodified	1036700	1955800	1926400	0	0	0	0	0	0
TSDVGGYYYEKIER	MAP1B	P46821	MAP1B_HUM	Unmodified	3036200	3613400	3693400	890000	973790	905160	119930	147840	93181
TSEEFVHINR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	0	645760	582680	0	0	0	0	0	0
TSEGVTNEKGTDSQAMEEEKPEGHV	FKBP5	Q13451	FKBP5_HUM	Oxidation (M)	1058900	1331800	1278800	0	63766	81064	0	0	0
TSEGVTNEKGTDSQAMEEEKPEGHV	FKBP5	Q13451	FKBP5_HUM	Oxidation (M);Deam	3660300	4359700	3398700	73341	0	63874	0	0	0
TSEIYVHR	DDX24; DDX24; DD	O9GZR7; A0A1W	DDX24_HUM	Unmodified	1197700	1224800	975160	0	12933	14283	0	0	0
TSEKQTLDEPEVPEIFTK	ZCCHC8	Q6NZY4	ZCHC8_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TSESTGSLPSPFLR	PSMG1	O95456	PSMG1_HUM	Unmodified	1575200	1215800	1910200	0	0	0	0	0	0
TSETLSQAGQK	TPD52; N/A	P55327; H0YC42	TPD52_HUM	Unmodified	14792000	11158000	15892000	0	0	0	0	0	0
TSEVDLAK	PDCD6IP; PDCD6IP;	Q8WUM4; F8WE9	PDC6I_HUM	Unmodified	0	0	11109000	0	0	0	0	0	0
TSEVDLAKPLVK	PDCD6IP; PDCD6IP;	Q8WUM4; F8WE9	PDC6I_HUM	Unmodified	3518300	3226900	3467900	163130	125930	185210	0	10909	0
TSEVLNAAK	TMPRSS2; TMPRSS;	O15393; C9JKZ3;	TMPS2_HUM	Unmodified	0	0	0	258700	331330	329450	0	0	0
TSFFQALGITTK	RPLP0; RPLP0P6; RI	P05388; Q8NHW5	RLA0_HUMA	Unmodified	25761000	11161000	14338000	89872	0	95476	0	85713	0

TSFIQVLLEQEVPGSR	EHD2	Q9NZN4	EHD2_HUMA	Unmodified	89462	0	76978	0	0	0	0	0	0
TSFLDDAFR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	1992000	2228000	1946300	40996	37226	41325	0	0	0
TSFLDDAFRKNLESALR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	337420	0	371540	0	0	0	0	0	0
TSFSPCVPQCQTQGSYGSFTEQHR	KPRP	Q5T749	KPRP_HUMA	Unmodified	752660	1894100	1340300	263830	229890	220490	0	0	0
TSFTPVGDVFELNFMNVK	RPN2	P04844	RPN2_HUMA	Oxidation (M)	376240	247760	466310	0	0	0	0	0	0
TSGGAGGLGSLR	DES	P17661	DESM_HUM	Unmodified	0	0	0	0	0	0	3921000	4196800	3555500
TSGMPEICQEYSGTLR	DSG1	Q02413	DSG1_HUMA	Oxidation (M)	0	0	0	45236	35533	39187	0	0	0
TSGMPEICQEYSGTLRR	DSG1	Q02413	DSG1_HUMA	Oxidation (M)	0	644740	543110	138960	199450	128020	0	0	0
TSGRVAVEEVDEEGKFVR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	0	243150	0	5343400	5487200	6334300	2062200	1435000	1516200
TSGRVAVEEVDEEGKFVRLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA_HUM	Unmodified	0	0	0	1019100	625080	374770	923730	512820	814970
TSGSVYITLK	SRP14; SRP14	P37108; H0YLA2	SRP14_HUM	Unmodified	2647700	1282000	1140500	0	0	0	0	17998	0
TSGTEPADFALPSSR	TP53BP1; TP53BP1;	Q12888; M0R142	TP53B_HUM	Unmodified	1084200	1549900	1443400	0	0	0	0	25134	0
TSGTLISFIYPAQNPELLNK	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM_HUM	Unmodified	5807200	3713100	6067700	0	0	11013	0	0	0
TSGTLISFIYPAQNPELLNK	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM_HUM	Deamidation (N)	248520	75244	406210	0	0	0	0	0	0
TSGTLISFIYPAQNPELLNKLSQR	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM_HUM	Unmodified	438380	643580	533520	0	0	0	0	0	0
TSGVIAEPETKR	PPM1K; PPM1K; PPI	Q8N3J5; A0A0A0	PPM1K_HUM	Unmodified	453740	814250	0	38561	0	0	0	0	0
TSGVLSQPHLPFFR	MAP2K7	O14733	MP2K7_HUM	Unmodified	4410700	3960200	3339800	75623	66886	49096	17773	0	39526
TSHPETDILHR	PRR12	Q9ULL5	PRR12_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TSIAIDTIINQK	ATP5F1A; ATP5F1A	P25705; K7EK77	ATPA_HUMA	Unmodified	2342100	1321700	2463900	79948	50134	57696	39577	38438	46582
TSIAIDTIINQKR	ATP5F1A; ATP5F1A	P25705; K7EK77	ATPA_HUMA	Unmodified	1658600	1828800	2340000	0	51347	25562	0	0	0
TSIAIDTIINQKR	ATP5F1A; ATP5F1A	P25705; K7EK77	ATPA_HUMA	Deamidation (N)	1629200	1815800	1222000	55022	45826	0	0	0	0
TSIDAYDNFDNISLAQR	CLTC; CLTC; CLTC;	Q00610; K7EJJ5	CLH1_HUMA	Unmodified	2378500	1636100	2359000	0	0	18572	0	7947.5	0
TSIETNIR	POU2F3; POU2F1; P	Q9UKI9; P14859	PO2F3_HUM	Unmodified	2016200	1418400	2000700	0	0	0	0	0	0
TSIFWNDVKDPVSIEER	EIF3B; EIF3B; EIF3B	P55884; C9JZG1	EIF3B_HUMA	Deamidation (N)	479010	1014500	3319700	0	0	0	0	0	0
TSILAAANPISGHYDR	MCM6	Q14566	MCM6_HUM	Unmodified	36220000	26438000	37494000	37372	57171	30266	0	0	0
TSIYPFLDFMPSPQVVR	BTD; BTD; BTD; BT	P43251; A0A2R8	BTD_HUMAN	Oxidation (M)	756810	729590	460150	0	0	0	0	0	0
TSKAEELLAEEK	DNM1L	O00429	DNM1L_HUM	Unmodified	8367000	6818500	7819700	172320	246230	152500	14206	12314	0
TSLAALEQIQTAK	GRIPAP1; GRIPAP1	Q4V328; A0A087	GRAP1_HUM	Unmodified	1479000	1434800	1282900	0	0	0	0	0	0
TSLALDESLFR	PABPN1; PABPN1; I	Q86U42; B4DEH8	PABP2_HUM	Unmodified	10309000	6781900	7526700	140140	140840	88786	0	36796	0
TSLALDESLFRGR	PABPN1; PABPN1; I	Q86U42; B4DEH8	PABP2_HUM	Methyl (KR)	11984000	8340900	8231300	117270	0	0	22447	14773	12004
TSLEVPEINALLVPK	THOC6	Q86W42	THOC6_HUM	Unmodified	0	0	1168000	0	0	0	0	0	0
TSLQQSLNEISGQSVAEQLQK	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2_HUM	Unmodified	898930	850590	881370	0	0	0	0	0	0
TSLSSPPWPEVVLPDPVEETR	MRPL21; MRPL21	Q7Z2W9; F5H7V8	RM21_HUMA	Unmodified	344920	382120	453700	0	0	0	0	0	0
TSLVATPGIDKLTEK	HID1	Q8IV36	HID1_HUMA	Unmodified	939880	641370	783610	177780	175830	165630	44978	34204	53189
TSMGGTQQQFVEGVR	CTNNB1; CTNNB1;	P35222; A0A2R8	CTNB1_HUM	Oxidation (M)	2535600	2035000	1863900	120720	59208	143360	0	0	0
TSMNVNEIFMAIAK	RAB5A	P20339	RAB5A_HUM	2 Oxidation (M)	12317000	2081600	12299000	102300	72337	64224	0	0	0
TSMNVNEIFMAIAK	RAB5A	P20339	RAB5A_HUM	Oxidation (M);Deai	585110	0	412570	0	19985	11894	0	0	0
TSMTEEYRVPDGMVGLIIGR	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	2 Oxidation (M)	70110000	22468000	22948000	201350	160310	89547	140230	0	120410
TSNEVQYDQR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1_HUM	Unmodified	1004800	861380	769300	0	0	0	0	0	0
TSNEVQYDQR	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1_HUM	Deamidation (N)	703450	730840	729020	0	117330	101680	0	0	0
TSNGKSTVINAMLWDKVLPSGIGHTTNCFLR	MFN2; MFN2; MFN2	O95140; A0A6Q8	MFN2_HUMA	Oxidation (M);3 M	528590	601760	0	0	0	0	0	0	0
TSNIFGLQR	PHF8; PHF8; PHF8	Q9UPP1; H0Y589	PHF8_HUMA	Unmodified	848080	496130	0	0	0	0	0	0	0
TSNLLLSHAGILK	CDK11A; CDK11B;	Q9UQ88; P21127	CD11A_HUM	Unmodified	993700	914160	795870	34276	0	17809	0	0	0
TSNSQHGNSAPSLLMPLPGTK	SYNRG	Q9UMZ2	SYNRG_HUM	Oxidation (M);2 De	847720	484410	307040	0	0	0	0	0	0
TSPADHGGSVGSESGGSAVDSVAGEHSVSGR	UBR4; UBR4; UBR4	Q5T4S7; A0A0A0	UBR4_HUMA	Unmodified	0	1603100	1118500	115060	0	0	0	0	0
TSPDSLRR	SRSF8	Q9BRL6	SRSF8_HUM	Methyl (KR)	12033000	15708000	7747400	0	514210	596840	0	0	0
TSPENVQDRFALVTPK	RANBP2	P49792	RBP2_HUMA	Unmodified	1313100	1058100	1466700	98615	104290	104900	0	18853	0
TSPERDPLILLSR	POGLUT1	Q8NBL1	PGLT1_HUM	Unmodified	3683300	3134400	3491100	0	154490	0	0	0	0
TSPFELYQFFVR	YARS2; YARS2	Q9Y2Z4; H0YHS0	SYYM_HUM	Unmodified	203930	170820	190390	0	0	0	0	0	0
TSPLQTPAAPGAAAGPALSPVPPVVHLTLR	BCL2; BCL2; BCL2	P10415; A0A7I2	BCL2_HUMA	Unmodified	3488100	4339200	2901800	0	0	0	0	0	0
TSPPDSSVIVTLLDQAAK	SIRT1; SIRT1; SIRT1	Q96EB6; B0QZ35	SIR1_HUMA	Unmodified	278340	341680	449880	0	0	0	0	0	0
TSPPGPAPGPGLALEPPPGLASWR	NUDT19	A8MXV4	NUD19_HUM	Unmodified	1170200	689410	854500	0	0	0	0	0	0
TSPQQKLIIVEGCQR	ATP1A1; ATP1A2; A	P05023; P50993	AT1A1_HUM	Unmodified	0	0	0	0	473120	666000	0	0	0
TSPSSPAPLPHQEATPR	SLC4A2; SLC4A2	P04920; A0A7I2	B3A2_HUMA	Unmodified	0	0	0	397870	407160	440640	0	47326	0
TSPYPGSKVER	NUDT9; NUDT9; NU	Q9BW91; D6RAV	NUDT9_HUM	Unmodified	955070	1225800	370050	291710	311510	373710	0	68845	0
TSQETADVK	NUP93; NUP93; NUP	Q8N1F7; H3BRI8	NUP93_HUM	Unmodified	300380	453510	375200	7278.9	27015	0	0	0	0
TSQETADVKASVLLGSR	NUP93; NUP93; NUP	Q8N1F7; H3BRI8	NUP93_HUM	Unmodified	403810	0	424770	0	0	0	22250	0	12704
TSQIFLAK	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	548870	540360	552470	31992	28688	27643	0	0	0
TSQLGDSPEYPGK	NUP153	P49790	NU153_HUM	Unmodified	973890	726860	778240	0	0	34736	0	0	0
TSQLGDSPEYPGKTTYGGAAAAVR	NUP153	P49790	NU153_HUM	Unmodified	438140	0	724120	0	0	72406	0	0	0
TSQPMAPGVFLTQR	PHF2; PHF2; PHF2	O75151; E7ET14	PHF2_HUMA	Oxidation (M)	517370	1604800	554010	156950	67581	0	0	0	0
TSQQLQLIDEQDSVIQSR	STX5; STX5	Q13190; H7C3X5	STX5_HUMA	Unmodified	2581000	2595200	2379300	180370	162760	97199	38716	22139	26471
TSQTVATFLDELAQK	THOP1; THOP1	P52888; K7EP46	THOP1_HUM	Unmodified	1396300	1049900	1767400	0	0	0	0	0	0
TSQTVATFLDELAQKLKPLGEQER	THOP1; THOP1	P52888; K7EP46	THOP1_HUM	Unmodified	1618200	121750	351180	0	0	0	0	0	0
TSRPENAIIYNNNEDFQVGQAK	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Deamidation (N)	1083800	1970100	2099600	574390	883050	837860	0	0	0
TSRPENAIIYNNNEDFQVGQAK	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	2 Deamidation (N)	1565000	1652100	2342900	381930	640870	473370	0	0	0
TSRPENAIIYNNNEDFQVGQAK	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	3 Deamidation (N)	0	2336500	1102600	75041	206490	149090	0	0	0
TSRPENAIIYNNNEDFQVGQAK	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Unmodified	868180	605350	0	120550	114780	61366	0	0	0
TSSAETPTIPLGSAVEAIK	IMMT; IMMT; IMM	Q16891; B9A067	MIC60_HUM	Unmodified	1919100	2314200	2408800	38399	0	0	0	0	0
TSSAQVEGGVHSLHSYEK	IMPDH2; IMPDH2; I	P12268; A0A7I2	IMDH2_HUM	Unmodified	483750	1267500	1592200	739780	430320	477660	20700	0	0
TSSFAEPGGGGGGGGGGPGGSASGPGGTGGGK	GSK3A; GSK3A; GSI	P49840; A0A7I2	GSK3A_HUM	Unmodified	2825000	3202400	3764300	0	213970	0	0	0	0
TSSGDASSLSIEETNKLR	SART1; SART1	O43290; E9PQI8	SNUT1_HUM	Unmodified	0	1906800	1050800	79048	0	0	0	0	0
TSSGLGGSTTDFLEEWK	PAWR; PAWR; PAW	Q96IZ0; F8W1M8	PAWR_HUM	Unmodified	366150	358760	333350	0	0	0	0	0	0
TSSQPGFLER	TMEM43	Q9BTV4	TMM43_HUM	Unmodified	1609500	4236500	1706800	74295	43092	66210	0	0	0
TSSSFAAAMAR	CAD; CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Oxidation (M)	1123500	1261300	961170	0	0	0	0	0	0
TSSTDLSDIPALPANPIPVIK	PAPOLA; PAPOLA	P51003; G3XAH6	PAPOA_HUM	Unmodified	1167500	1055600	1182500	0	0	0	0	0	0
TSSTDLSDIPALPANPIPVIKNSIK	PAPOLA; PAPOLA	P51003; G3XAH6	PAPOA_HUM	Deamidation (N)	3033000	2908800	4585700	0	0	0	0	0	0
TSSVFEDPVISK	MRPS7; MRPS7; MR	Q9Y2R9; J3QKW	RT07_HUMA	Unmodified	941920	1277000	2234300	37529	46111	56562	0	0	0
TSSVVTLEVAK	AFDN; AFDN; AFDN	P55196; Q5TIG5	AFAD_HUMA	Unmodified	1574900	2211300	1941000	129220	124460	107990	0	0	0
TSTADYAMFK	FGG; FGG; FGG	P02679; C9JC84	FIBG_HUMA	Oxidation (M)	1618600	1712100	1302400	79000	130740	92963	0	0	0
TSTAPAASPNVR	PC; PC; PC; PC; PC	P11498; A0A494	PYC_HUMAN	Unmodified	1597400	1795400	1747800	463960	472870	495140	0	0	0
TSTAPLDR	SLC25A24; SLC25A	Q6NUK1; A0A3B	SCMC1_HUM	Unmodified	4149000	3721800	4586900	111150	99590	0	0	0	0
TSTILAAAR	RFC4; RFC4; RFC4;	P35249; C9J8M3	RFC4_HUMA	Unmodified	1080500	897550	1073300	0	0	0	0	0	0
TSTPEDFIR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	3942800	2958000	3446600	340270	266780	370370	0	0	0
TSTPFGSGR	MPLKIP	Q8TAP9	MPLKI_HUM	Unmodified	2086500	1848700	1960000	131600	129510	142250	26459	20345	17279
TSTSQAVFR	DARS1; DARS1; DAI	P14868; C9JLC1	SYDC_HUMA	Unmodified	3298300	3578800	3498600	79630	86428	0	0	0	0
TSTSSSSVQAR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	Unmodified	1159300	1427900	1783600	307870	341030	288440	0	0	0
TSTTGVATTQSPTPR	LMO7; LMO7; LMO	Q8WWI1; A0A0A	LMO7_HUM	Unmodified	0	488950	408820	0	0	36300	0	0	0
TSVESVGTMR	STK3; STK3; STK3	Q13188; A0A087	STK3_HUMA	Oxidation (M)	2356800	1204400	1338100	181400	158740	192530	0	0	0
TSVETALR	CAPZA2; CAPZA2; (	P47755; A0A0D9	CAZA2_HUM	Unmodified	5607100	4621200	4178100	184720	299090	305630	0	0	0
TSVFLVR	GEMIN5	Q8TEQ6	GEMI5_HUM	Unmodified	0	0	656580	96572	0	0	8467.6	0	4756.8
TSVLAAANPIESQWNPK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4_HUM	Unmodified	2972600	2740900	3091300	0	0	0	0	0	0
TSVLAAANPIESQWNPKK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4_HUM	Unmodified	1647900	1185100	0	0	0	0	0	0	0
TSVLEMIAQAR	OPA1; OPA1; OPA1;	O60313; E5KLJ9	OPA1_HUMA	Oxidation (M)	3698800	1368500	4311500	52483	46440	36594	0	0	0
TSVLLEQMMR	UPF2	Q9HAU5	RENT2_HUM	2 Oxidation (M)	393140	374110	379390	0	0	0	0	0	0
TSVPENHAQSR	SRRM2	Q9UQ35	SRRM2_HUM	Unmodified	941520	949810	279560	19990	10581	0	0	0	0
TSVPENHAQSR	SRRM2	Q9UQ35	SRRM2_HUM	Deamidation (N)	2801800	1362000	2500000	57628	50569	77445	0	0	0
TSVPKEVVDYIIFGTVIQEVK	HADHB; HADHB; H	P55084; C9JEY0	ECHB_HUMA	Unmodified	170670	0	90791	0	0	0	0	0	0
TSVPVDSFFSLLTSER	ACAD10; ACAD10	Q6JQN1; F8W1I9	ACD10_HUM	Unmodified	135980	144850	96328	0	0	0	0	0	0
TSVQPTFTASQYR	UBR4	Q5T4S7	UBR4_HUMA	Unmodified	0	1549400	0	216530	245510	249430	59172	57038	67202
TSVQTEDDQLIAGQSAR	CTNNA1; CTNNA2;	P35221; P26232	CTNA1_HUM	Unmodified	5756700	5383400	5557200	589840	673980	675330	0	0	0
TSVTDFLR	FTSJ3	Q8IY81	SPB1_HUMA	Unmodified	3994400	4363100	4158400	43167	135380	171740	16685	0	0
TSYAQHQQVR	RPS3A; RPS3A; RPS	P61247; D6R9B6	RS3A_HUMA	Unmodified	4080800	4339600	6319200	322240	234360	56335	0	0	0
TTAAFQQGK	SNRPC; SNRPC; SNI	P09234; A0A0A0	RU1C_HUMA	Unmodified	1699200	4713900	5679500	58804	69043	54293	0	0	0
TTAAHSLVGTPYYMSPER	NEK7; NEK6; NEK6;	Q8TDX7; Q9HC9	NEK7_HUMA	Oxidation (M)	813340	846540	840800	0	0	0	17668	17798	
TTAAMWALQTVEK	TMEM205; TMEM2	Q6UW68; K7ELQ	TM205_HUM	Oxidation (M)	776220	736850	615910	0	0	0	0	0	0
TTAAMWALQTVEKER	TMEM205; TMEM2	Q6UW68; K7ELQ	TM205_HUM	Oxidation (M)	2710400	2338000	2034700	0	0	0	0	0	0
TTAARPTFEPAR	CWC15	Q9P013	CWC15_HUM	Acetyl (Protein N-t	10476000	10692000	9932400	651940	732350	621540	195410	0	156120
TTAPVPEPTKPGDPR	ZC3H18; ZC3H18; ZI	Q86VM9; E7ERS	ZCH18_HUM	Unmodified	2309700	1862100	1521100	124180	145280	98571	0	0	0
TTARDQDLEPGAPSMGAK	EPRS1	P07814	SYEP_HUMA	Oxidation (M)	2169400	2270600	2072100	221750	197250	201080	0	11074	0
TTASTSQVRQNYHQDSEAAINR	FTH1; FTH1; FTH1; I	P02794; E9PKY7	FRIH_HUMA	Acetyl (Protein N-t	0	0	0	2643300	2564300	3170600	0	0	264700
TTASTSQVRQNYHQDSEAAINR	FTH1; FTH1; FTH1; I	P02794; E9PKY7	FRIH_HUMA	Acetyl (Protein N-t	0	403210	0	1215200	1148300	945490	50048	0	0
TTDEGAKNNEESPTATVAEQGEDITSKKDR	FKBP5	Q13451	FKBP5_HUM	Acetyl (Protein N-t	957140	0	972890	0	0	0	0	0	0
TTDFSDFLSIVGCTK	CHORDC1; CHORDC	Q9UHD1; E9PPQ	CHRD1_HUM	Unmodified	180030	68787	115290	0	0	0	0	0	0
TTDGSLQIR	FMR1	Q06787	FMR1_HUMA	Unmodified	638830	260380	0	0	0	0	0	0	0
TTDGVYEGVAIGGDR	ACLY	P53396	ACLY_HUMA	Unmodified	1899000	0	0	0	0	123220	0	0	0
TTDGYLLR	RPS3A; RPS3A; RPS	P61247; D6R9B6	RS3A_HUMA	Unmodified	2460400	2295900	1425500	0	0	0	0	0	0
TTDIFQTVDLWEGKDMAAVQR	TAGLN3; TAGLN3	Q9UI15; C9J5W6	TAGL3_HUM	Oxidation (M)	6487500	8188700	11235000	0	0	0	0	0	0
TTDIVIR	UBE2O; UBE2O	Q9C0C9; K7ES11	UBE2O_HUM	Unmodified	0	0	0	200630	181510	222960	10439	0	9673.9
TTDLLTDWEK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	3232500	2494300	3017100	91501	96134	111350	0	0	0
TTDVMFGGK	AHCYL1	O43865	SAHH2_HUM	Oxidation (M)	2710700	1318800	1796500	0	0	0	0	0	0
TTEAKMMKAGGTEIGK	ZRANB2	O95218	ZRAB2_HUM	2 Oxidation (M);3 !	0	0	0	210950	0	0	53928	67091	49224
TTEEALHASHGFMWYT	NDUFA13	Q9P0J0	NDUAD_HUM	Oxidation (M)	2193400	1807900	0	47342	22085	0	0	0	0
TTEINFK	CRABP1; CRABP2; (	P29762; P29373; (	RABP1_HUM	Unmodified	34159000	25637000	29404000	715780	1026800	1366700	0	0	0
TTEINFK	CRABP1; CRABP2; (	P29762; P29373; (	RABP1_HUM	Deamidation (N)	11174000	10919000	9235000	48710	63921	49421	0	0	0
TTEINFKVGEGFEEETVDGR	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Deamidation (N)	1581000	872030	2276800	0	0	0	0	18817	0
TTEINFKVGEGFEEETVDGR	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TTEINFKVGEGFEEETVDGRK	CRABP1; CRABP1	P29762; B5MCB5	RABP1_HUM	Deamidation (N)	0	1876300	1692600	0	0	0	0	0	0
TTELPAADPFALAPFPSK	N/A; AAK1	Q6ZSR9; A0A096	YJ005_HUMA	Unmodified	308800	315600	302960	0	0	0	0	0	0
TTELQDELSHLR	MTFR1L; MTFR1L;	Q9H019; E9PLU1	MFR1L_HUM	Unmodified	4360800	5130600	4839100	0	0	0	0	0	0
TTELVNK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	1009000	0	0	0	0	31015	0	0	0
TTELVNKDLDIYYK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	0	943570	897340	0	0	0	0	0	0

TTEMETIYDLGTK	RUVBL2; RUVBL2;	Q9Y230; M0R0Y2	RUVB2	HUM	Oxidation (M)	3969300	3882000	2121400	115460	135860	33513	0	0	0
TTETEKVQEFQR	RALBP1	Q15311	RBP1	HUMA	Unmodified	383620	416210	425110	33543	27195	33590	0	0	0
TTFDEAMADLHTLSEDSYK	SFN	P31947	1433S	HUMA	Oxidation (M)	757420	210180	0	0	0	0	0	0	0
TTFEDLIQR	SEC31A; SEC31A; SI	O94979; H0Y8W8	SC31A	HUM	Unmodified	3986600	0	2208000	0	0	0	0	10053	0
TTFQENTQSISVR	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1	HUM	Unmodified	895210	0	0	0	0	0	0	0	0
TTFTMNPTVTSNIIK	N/A	N/A	N/A		Oxidation (M);Deai	2565000	1614300	3109200	17546	0	0	0	0	27362
TTFYTALGR	XPO7; XPO7	Q9UIA9; E7ESC6	XPO7	HUMA	Unmodified	655730	623630	674940	0	0	0	0	0	0
TTGASFEK	SCAMP1; SCAMP1;	O15126; A0A087	SCAM1	HUM	Unmodified	0	0	985640	36200	0	0	0	0	0
TTGDISVEK	PKN1; PKN1	Q16512; K7EN76	PKN1	HUMA	Unmodified	821790	0	0	41304	0	0	0	0	0
TTGEGTSLR	MCM6	Q14566	MCM6	HUM	Unmodified	0	0	0	0	0	0	0	0	0
TTGEVVSGVVSK	CKAP5; CKAP5	Q14008; E9PQH5	CKAP5	HUM	Unmodified	1316200	1108500	634880	0	0	0	0	0	0
TTGFGMIYDSLDYAK	RPS24; RPS24; RPS2	P62847; A0A2R8	RS24	HUMA	Oxidation (M)	1376600	1535900	1325700	0	0	0	0	8067.7	0
TTGFTFVVDR	LCLAT1; LCLAT1	Q6UWP7; C9K0C	LCLT1	HUM	Unmodified	1795700	1001000	919810	0	0	0	0	0	0
TTGFYSGFSEVAEKR	ARID4B; ARID4B; A	Q4LE39; H0Y7Y8	ARI4B	HUM	Unmodified	697820	0	932020	0	0	0	0	0	0
TTGIVETHFTFK	GNAI3; GNAI2; GNA	P08754; P04899; I	GNAI3	HUM	Unmodified	946870	1159100	943770	0	0	0	0	0	0
TTGIVMDSGDGVTHTVPIYEGYALPHAILR	ACTG1; ACTB; ACT	P63261; P60709; I	ACTG	HUMA	Oxidation (M)	370670000	469890000	384330000	72958	15747	120390	0	69643	0
TTGTPPDSSLVTYELHSRPEQDKFSQAAK	DCTN2; DCTN2; DC	Q13561; A8K8J9;	DCTN2	HUM	Unmodified	3289400	2958200	3120300	0	0	0	0	0	0
TTGTRETAVPGPLGIEDISPNLSPDDKSFSR	TP53BP1	Q12888	TP53B	HUM	Unmodified	1136900	1319700	0	0	0	0	22930	0	20602
TTGVVLDSGDGVTHAVPIYEGFAMPHSIMR	ACTR1A; ACTR1B;	P61163; P42025;	ACTZ	HUMA	2 Oxidation (M)	1954700	3339000	3921400	0	0	0	0	0	0
TTHFVEGGDAGNREDQINR	RPL7; RPL7	P18124; A8MUD5	RL7	HUMAN	Unmodified	17919000	16742000	14318000	827660	865340	826730	21426	0	0
TTHFVEGGDAGNREDQINR	RPL7; RPL7	P18124; A8MUD5	RL7	HUMAN	Deamidation (N)	9263500	8970100	7942400	365070	363180	467940	0	10460	0
TTHLAGALSPGGGQSAPAFPESGPSLR	CCDC9	A0A2R8Y4Z8	A0A2R8Y4Z8		Unmodified	6324700	3360200	3204200	135720	65862	65882	0	0	0
TTIAQQVK	NSF; NSF; NSF; NSF	P46459; I3L2G1; I	NSF	HUMAN	Unmodified	3088700	1357200	1693700	76601	19428	0	0	0	0
TTIENIQLPHTLLSR	MCM4; MCM4; MC3	P33991; A0A3B3I	MCM4	HUM	Unmodified	2058300	2184300	2558900	0	0	0	0	0	0
TTIFSPEGR	PSMA4; PSMA4; PSI	P25789; H0YLS6;	PSA4	HUMA	Unmodified	17946000	25544000	33544000	3807100	3512800	4572600	0	0	257620
TTIFTDAK	ELOB; ELOB; ELOB	Q15370; A0A0B4	ELOB	HUMA	Unmodified	718090	1019200	866150	0	0	0	0	0	0
TTIFTDAKESSTVFELKR	ELOB; ELOB; ELOB	Q15370; A0A0B4	ELOB	HUMA	Unmodified	0	5039600	0	0	0	0	0	0	0
TTIHEMFLSTLDPK	ACOT9; ACOT9	Q9Y305; H7C5Q2	ACOT9	HUM	Oxidation (M)	3993800	4056500	3093400	0	0	0	0	0	0
TTIHQLTMQKEEDTSGYR	DSP	P15924	DESP	HUMA	Oxidation (M)	1954800	1817600	1778500	56822	0	0	0	0	0
TTIPEEEEEEEEAAGVVVEEELFHQQGTPR	LMNB1	P20700	LMNB1	HUM	Unmodified	2713500	1433900	1999200	0	0	0	0	0	0
TTITMAHLLAAR	FAM98B	Q52LJ0	FA98B	HUM	Oxidation (M)	755350	0	1181900	0	0	0	0	0	0
TTITMAHLLAAREDLSK	FAM98B	Q52LJ0	FA98B	HUM	Oxidation (M)	1427100	1584900	1357300	0	0	0	0	0	0
TTITTTTTSSSGLGSPMIVGSPR	MYADM; MYADM;	Q96S97; A0A499I	MYADM	HU	Oxidation (M)	2857700	2017700	2066000	538870	405730	420320	200280	181020	202850
TTKTPEDGDYSYEIIEK	MAP1B	P46821	MAP1B	HUM	Unmodified	1381200	1264800	0	0	32937	33654	0	0	0
TTLDSPLGK	MGMT; MGMT	P16455; B4DEE8	MGMT	HUM	Unmodified	410800	0	593900	77463	62445	65183	0	0	0
TTLILPTQQVR	SCML2; SCML2	Q9UQR0; B4DRC	SCML2	HUM	Unmodified	2513600	2515500	2052900	0	21222	21441	0	0	0
TTLLHMLKDDR	SAR1B; SAR1A; SAI	Q9Y6B6; Q9NR31	SAR1B	HUM	Oxidation (M)	702320	1033800	628460	0	0	0	0	0	0
TTLLPGLLK	FARSB	Q9NSD9	SYFB	HUMA	Unmodified	10396000	7279000	2015700	32059	37803	45462	0	0	0
TTLPERPLTEVK	PPP1R10	Q96QC0	PP1RA	HUM	Unmodified	2893100	3587300	2929800	76136	131490	138070	0	0	0
TTLPTFQSPEFSVTR	SNX5; SNX5	Q9Y5X3; Q5QPE4	SNX5	HUMA	Unmodified	2490500	1796200	4138000	143350	49195	65948	79499	35909	18164
TTLQVDTLNAELAAER	MYH10	P35580	MYH10	HUM	Unmodified	1463100	0	1338900	41549	31119	25028	21100	0	0
TTLTAAITK	TUFM; TUFM	P49411; H3BNU3	EFTU	HUMA	Unmodified	7413400	6184500	7689800	93258	179750	102170	0	0	0
TTLTAAITKILAEGGGAK	TUFM	P49411	EFTU	HUMA	Methyl (KR)	530380	407020	391710	0	0	0	0	0	0
TTLTSREVQTAVRLLLPGELAK	H2BE1	A0A2R8Y619	H2BE1	HUM	Unmodified	1580400	599960	934970	0	0	0	0	0	0
TTLVIMER	KPNB1; KPNB1; KPI	Q14974; J3QKQ5;	IMB1	HUMA	Oxidation (M)	4326300	5796800	4992000	0	0	0	0	0	0
TTMAGLTMEELIQLVAAR	RNF214; RNF214	Q8ND24; E9PN76	RN214	HUM,	2 Oxidation (M)	789730	555040	825320	0	0	0	0	0	0
TTNAGPLHPYWPQHLR	EBP; EBP; N/A; EBP	Q15125; C9JJ78;	EBP	HUMAN	Acetyl (Protein N-t	2675100	2281800	2575300	32407	21445	0	14763	0	0
TTNAGPLHPYWPQHLR	EBP; EBP; N/A; EBP	Q15125; C9JJ78;	EBP	HUMAN	Acetyl (Protein N-t	2225700	3663100	701450	0	0	0	12596	0	0
TTNFAGILSQGLR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	52857000	43747000	51817000	325140	267160	70450	50523	43996	0
TTNFAGILSQGLR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Deamidation (N)	17843000	23961000	27861000	52962	54312	0	23387	18481	22324
TTNIQGINLLFSSR	C4A; C4B; C4B_2; C	P0C0L4; P0C0L5;	CO4A	HUMA	Unmodified	1687900	1221000	556710	21125	43547	42526	37660	0	25988
TTNVLGAVNKPLSSAGK	PDS5B; PDS5B	Q9NTI5; A9IYQ1	PDS5B	HUM	Unmodified	2897900	1969300	2292400	148420	196290	170300	0	9303.2	0
TTPDVIFVFGFR	RPS24; RPS24; RPS2	P62847; A0A2R8	RS24	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TTPGKENFR	KPNA1; KPNA1; KPI	P52294; C9J4U1;	IMA5	HUMA	Acetyl (Protein N-t	4285200	3222000	3861500	226560	183710	392820	0	0	19024
TTPLGGLGPGEAR	FBRSL1; FBRSL1; FI	Q9HCM7; A0A3B	FBSL	HUMA	Unmodified	435120	625150	511760	0	0	72338	0	0	0
TTPNSGDVQVTEDAVRR	GTF2F1; GTF2F1	P35269; M0QXD6	T2FA	HUMA	Deamidation (N)	2615000	3113900	2729400	0	0	0	0	0	0
TTPPSVFFPVFVR	FMNL2; FMNL3; FM	Q96PY5; Q8IVF7;	FMNL2	HUM	Unmodified	0	239340	0	0	0	0	0	0	0
TTPPVLDSDGSFFLYSK	IGHG1; IGHG1; IGH	P01857; A0A0A0	IGHG1	HUM	Unmodified	3071200	1238800	2618600	0	58286	0	62292	56539	0
TTPPVLDSDGSFFLYSR	IGHG4; IGHG4	P01861; A0A286	IGHG4	HUM	Unmodified	1562200	1262400	834800	0	0	0	0	0	0
TTPSVVAFTADGER	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Unmodified	46738000	45046000	50840000	2150700	2234500	2438400	170240	266380	76366
TTPSVVAFTADGERLVGMPAK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Oxidation (M)	3251400	1972300	2599100	98567	65144	72384	27863	21417	0
TTPSVVAFTADGERLVGMPAKR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Oxidation (M)	0	2681400	2359900	2796100	1040700	580800	294290	0	0
TTPSYVAFTDTER	HSPA1L; HSPA6; HS	P34931; P17066;	HS71L	HUM	Unmodified	85925000	121830000	103390000	5675000	5327100	1161900	236230	183430	215150
TTPSYVAFTDTERLIGDAAK	HSPA1L; HSPA1A; F	P34931; P0DMV8	HS71L	HUM	Unmodified	31009000	46114000	32973000	60185	0	0	83953	0	16076
TTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKR	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);Deai	0	0	1034200	0	0	0	0	0	0
TTPTFFPKDILTLR	GAA; GAA; GAA	P10253; I3L0S5; I	LYAG	HUM	Unmodified	22257000	19649000	19304000	43595	0	0	58703	25414	30511
TTPTFFPKDILTLR	GAA; GAA; GAA	P10253; I3L0S5; I	LYAG	HUM	Methyl (KR)	1759200	1768600	1906600	0	0	0	0	0	0
TTPTQPSEQK	SCAF4	O95104	SCAF4	HUM	Unmodified	240490	263820	223360	0	0	0	0	0	0
TTQEQLAR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	3795900	3299500	3245000	0	0	0	0	38287	0
TTQFSCTLGEKFEETTADGR	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	Unmodified	1297500	6068800	4641300	87509	79085	0	0	0	0
TTQFSCTLGEKFEETTADGRK	FABP5; FABP5	Q01469; I6L8B7	FABP5	HUM	Unmodified	10300000	13755000	1854600	696300	278020	449240	0	0	0
TTQIINITMTK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Oxidation (M)	4612700	3826000	3370000	603290	514750	510360	0	0	0
TTQLGPGR	SKOR1; DNAJB11; S	P84550; Q9UBS4;	SKOR1	HUM	Unmodified	10344000	11391000	10794000	564430	474750	532870	0	0	0
TTQQDLSALQK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	1232900	1061400	0	85062	88394	111650	0	0	0
TTQQIDLQGPGPWGFR	PDLIM1	O00151	PDLI1	HUMA	Acetyl (Protein N-t	382280	489260	501990	0	0	0	0	0	0
TTQSGQMSGEGKAGPPGGSSR	CPSF6	Q16630	CPSF6	HUM,	Oxidation (M)	62480	112510	73720	62683	62793	111030	0	0	0
TTQVPQFILDDFIQNDR	DHX9	Q08211	DHX9	HUMA	Unmodified	2116700	2160900	2360100	0	0	0	0	0	0
TTQVPQFILDDFIQNDR	DHX9	Q08211	DHX9	HUMA	Deamidation (N)	1160500	252710	291330	0	0	0	0	0	0
TTQVTQFILDNYIER	DHX36; DHX36	Q9H2U1; E7EWK	DHX36	HUM	Unmodified	504850	0	527100	0	0	0	0	0	0
TTRKEQTADGVAVIPVLQR	NUDT5; NUDT5; NU	Q9UKK9; H0YEY	NUDT5	HUM	Unmodified	2633400	2884700	3462200	100790	108200	133180	0	0	0
TTRTPEEGGYSYDISEK	MAP1B	P46821	MAP1B	HUM	Unmodified	410360	411280	390890	50825	0	52988	0	0	0
TTRYDIDMTK	NDUFS8; NDUFS8; N	O00217; E9PKH6	NDUS8	HUM	Oxidation (M)	1016800	1052200	1146200	48058	0	29076	0	0	0
TTSAGTGGMWR	SEC61B	P60468	SC61B	HUM,	Oxidation (M)	4518700	4303100	5657400	350760	384440	472860	0	0	0
TTSASSHLNKGIK	GLUL; GLUL	P15104; A0A2R8	GLNA	HUMA	Acetyl (Protein N-t	0	0	0	0	0	0	0	0	0
TTSPLEEEEREIK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	1674100	1844100	1855100	0	62841	52307	0	0	0
TTSPPEVSGYSYEKTER	MAP1B	P46821	MAP1B	HUM	Unmodified	1863600	1432600	1504000	230820	0	196410	0	0	0
TTSSANNPNLMYQDECDRR	DDX17; DDX17; DD	Q92841; A0A1X7	DDX17	HUM	Oxidation (M)	686100	986310	1248700	0	0	0	0	0	0
TTTAAAVASTGPSSR	MAP4; MAP4; MAP	P27816; H7C4C5;	MAP4	HUM	Unmodified	536100	426460	0	97152	97915	0	0	0	0
TTTESEVMK	MTHFD1; MTHFD1;	P11586; V9GYY3	C1TC	HUMA	Oxidation (M)	753490	0	985180	0	0	0	0	0	0
TTTGNKVFGALK	RPL5; RPL5; RPL5	P46777; Q5T7N0;	RL5	HUMAN	Unmodified	11883000	10345000	13468000	329450	259130	241760	15722	19949	11676
TTTGNKVFGALK	RPL5; RPL5; RPL5	P46777; Q5T7N0;	RL5	HUMAN	Deamidation (N)	8057900	7625500	7332800	302490	308720	369540	21536	35398	27366
TTTGSYIANR	PSMB6; PSMB6; PSI	P28072; I3L3X7;	PSB6	HUMA	Unmodified	3769700	4096700	4378500	74470	0	81810	0	0	0
TTTGSYIANRVTDKLTPIHDR	PSMB6; PSMB6; PSI	P28072; I3L3X7;	PSB6	HUMA	Deamidation (N)	2686100	2978300	2026200	0	0	26664	0	0	0
TTTHVPPELGQIMDSETFEK	ZMPSTE24; ZMPSTI	O75844; A0A6Q8	FACE1	HUM	Oxidation (M)	654210	445040	594430	0	0	0	0	0	0
TTTLSGTAPAAGVVPSR	MAP4; MAP4; MAP	P27816; H7C4C5;	MAP4	HUM	Unmodified	5612200	2790700	3226800	1339900	986300	1008000	220680	208430	132880
TTTLSGTAPAAGVVPSRVK	MAP4; MAP4; MAP	P27816; H7C4C5;	MAP4	HUM	Unmodified	0	0	0	192310	149880	176030	0	0	42104
TTTRVYAMYANMGDGK	N/A	N/A	N/A		2 Oxidation (M)	9297000	22752000	11998000	0	0	0	0	0	0
TTTTLIEPIR	RNF40; RNF40; RNF	O75150; H3BP71	BRE1B	HUM	Unmodified	3274100	2246800	2320000	86482	37420	92134	0	0	0
TTTTTFKGVDPNSRNSSR	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUMA	Acetyl (Protein N-t	7287600	6119400	6629500	595420	548950	571160	0	0	0
TTTTTFKGVDPNSRNSSR	JPT1; JPT1; JPT1	Q9UK76; J3KT51	JUPI1	HUMA	Acetyl (Protein N-t	1156900	1251300	2041800	820720	768240	779170	0	29887	0
TTVGVDGSLYK	HK1	P19367	HXK1	HUM	Unmodified	7665800	6244700	7888900	268400	212600	223780	0	0	0
TTVILPLAPFVR	CHL1; CHL1	O00533; A0A087	NCHL1	HUM	Unmodified	159910	115080	302670	0	0	0	0	0	0
TTVLAMDQVPR	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM	HUM,	Oxidation (M)	3409900	4340800	3270700	58865	82162	64100	0	0	0
TTVQQEPLESGAK	YLPM1; YLPM1	P49750; F8VU51	YLPM1	HUM	Unmodified	829560	697990	622030	0	0	0	0	0	0
TTVVAQLK	EIF3E; EIF3E; EIF3E;	P60228; A0A161	EIF3E	HUM	Unmodified	3402200	4150400	3560200	36584	34831	34432	0	0	0
TTVVAQLKQLQAETEPIVK	EIF3E; EIF3E; EIF3E;	P60228; A0A161	EIF3E	HUM	Unmodified	0	800570	1163800	0	0	0	0	0	0
TTYGGAAAAVR	NUP153	P49790	NU153	HUM	Unmodified	1197000	1069500	0	35499	0	0	0	0	0
TTYLEFIQQNEERDGVR	SEC23A; SEC23A; SI	Q15436; F5H365;	SC23A	HUM	Acetyl (Protein N-t	1189500	547110	781460	0	0	0	0	0	0
TTYLVLDEADR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	Unmodified	11613000	9517700	11517000	0	157570	183200	0	0	0
TTYLVLDEADRMLDMGFEPQIR	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	2 Oxidation (M)	6434700	12272000	15109000	0	0	0	0	0	0
TTYLVLDEADRMLDMGFEPQIRK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	2 Oxidation (M)	8329100	6160700	7385100	0	0	0	0	0	0
TTYMDPTGK	NUDT5; NUDT5; NU	Q9UKK9; A6NFX	NUDT5	HUM	Oxidation (M)	2026200	2616100	3450700	119040	39067	76434	0	0	0
TVAACNLPIVR	AMBP	P02760	AMBP	HUM	Unmodified	751410	726800	799620	72758	0	67537	0	18038	14879
TVAAPSVFIFPPSDEQLK	IGKC; IGKC	P01834; A0A5H1	IGKC	HUMA	Unmodified	12817000	16811000	13138000	119340	0	61165	96648	60648	0
TVAEGHGDTLYVGTTR	EML2; EML2; EML2	O95834; A0A0C4	EMAL2	HUM	Unmodified	1790200	1526300	1770300	169320	158910	161220	0	0	0
TVAELEAEK	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM	HUM,	Unmodified	6461800	5567400	5445800	0	0	0	0	25484	20120
TVAELEAEKAATITPFRK	NNT; NNT; NNT; NN	Q13423; E9PCX7	NNTM	HUM,	Unmodified	632620	626230	559920	0	0	0	0	0	0
TVAFPSTHPPR	EP400	Q96L91	EP400	HUM	Unmodified	0	598210	0	40496	0	64663	0	0	0
TVAGGAWTYNTTSAVTVK	RPL37A; RPL37A	P61513; C9J4Z3	RL37A	HUM	Unmodified	619360	509850	532470	12552	0	0	0	0	0
TVAIYSEQDTGQMHR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMAN	Oxidation (M)	2764000	3561500	1731300	0	0	0	0	0	0
TVALDGTLFQK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	931270	812720	1100900	39638	46108	32117	0	14396	0
TVALWDLR	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7	HUM	Unmodified	11903000	11291000	13126000	18456	23131	20703	0	0	0
TVANLLSGK	TCOF1; TCOF1; TCC	Q13428; E7ETY2;	TCOF	HUMA	Unmodified	1421400	1680600	1403100	72355	52872	59486	11572	12379	13947
TVAPMPPAQDHK	GART; GART; GART	P22102; C9JBJ1;	PUR2	HUMA	Oxidation (M)	690520	735860	736940	0	0	0	0	0	0
TVASATTAIEIR	REPS1; REPS1; REP	Q96D71; H0YDT	REPS1	HUM	Unmodified	575980	512440	0	112890	95062	69319	0	0	0
TVASPGVTVEEAVEQIDIGGVTLLR	ATIC; ATIC	P31939; C9JLK0	PUR9	HUM	Unmodified	319590	0	43348	0	0	0	0	0	0
TVATPLNQVANPNSAIFGGAR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	Deamidation (N)	630350	493800	590190	0	0	0	0	0	0
TVATPLNQVANPNSAIFGGARPR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	Deamidation (N)	11367000	8230800	9356500	139180	78560	100920	81971	50159	26310
TVATPLNQVANPNSAIFGGARPR	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	2 Deamidation (N)	2854700	12055000	13552000	86086	105580	0	32014	22433	28912
TVATPLNQVANPNSAIFGGARPREEVVQKEQE	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	2 Deamidation (N)	7727700	8252900	6176700	0	0	0	0	0	0
TVATPLNQVANPNSAIFGGARPREEVVQKEQE	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	Deamidation (N)	11201000	6807000	8402300	0	0	0	177360	0	0
TVATPLNQVANPNSAIFGGARPREEVVQKEQE	EIF4H; EIF4H; EIF4H	Q15056; A0A7I2V	IF4H	HUMA	Unmodified	13181000	14948000	12375000	0	100890	0	0	76643	0

TVAVIGGISR	DDX23	Q9BUQ8	DDX23_HUM	Unmodified	850840	857070	847740	0	29279	0	0	0	0
TVAYTEQK	PDIA3	P30101	PDIA3_HUM	Unmodified	8846900	8968100	11322000	121680	199070	0	0	0	0
TVCAHEELLR	MFAP2	P55001	MFAP2_HUM	Unmodified	1905600	0	0	200620	219060	385040	223810	120730	0
TVCGVVSR	HK1	P19367	HXK1_HUM	Unmodified	763530	1372600	886380	17347	0	20731	0	0	0
TVDDVIKEQNR	CHMP2B; CHMP2B	Q9UQN3; C9J0A7	CHM2B_HUM	Unmodified	665890	428100	667200	0	32774	0	0	0	0
TVDDVIKEQNRELR	CHMP2B; CHMP2B	Q9UQN3; C9J0A7	CHM2B_HUM	Unmodified	706850	802210	0	0	0	0	0	0	0
TVDFTQDSNYLLTGGQDK	STRAP	Q9Y3F4	STRAP_HUM	Unmodified	3025000	0	0	23929	0	0	0	0	0
TVDFTQDSNYLLTGGQDKLLR	STRAP	Q9Y3F4	STRAP_HUM	Unmodified	3535900	3140600	5790900	0	0	0	0	0	0
TVDFTQDSNYLLTGGQDKLLR	STRAP	Q9Y3F4	STRAP_HUM	Deamidation (N)	0	482580	797580	0	0	0	0	0	0
TVDGPSGKLWR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Unmodified	19023000	18429000	20172000	219590	137770	303870	15862	0	0
TVDISMILSEAIR	PRPSAP2; PRPSAP2	O60256; I3L0S1	KPRB_HUMA	Oxidation (M)	1619600	690840	1421000	0	0	0	0	0	0
TVDISMILSEAIRR	PRPSAP2; PRPSAP2	O60256; I3L0S1	KPRB_HUMA	Oxidation (M)	1417000	2634900	2955500	0	0	0	0	0	0
TVDLQDAEEAVELVQYAYFKK	MCM3; MCM3; MC3	P25205; Q7Z6P5;	MCM3_HUM	Unmodified	873370	95504	358020	0	0	0	0	0	0
TVDNFVALATGEK	PPIB; PPIB; PPIB	P23284; A0A7P0Z	PPIB_HUMA	Unmodified	3213600	2497600	3072000	0	64400	67538	40615	0	0
TVDNFVALATGEK	PPIB; PPIB; PPIB	P23284; A0A7P0Z	PPIB_HUMA	Deamidation (N)	711870	615340	738000	22777	0	0	0	0	0
TVDPETQARLEALLEAAGIGK	ANKRD17; ANKHD1	O75179; Q8IWZ3;	ANR17_HUM	Unmodified	0	133210	416340	0	0	0	0	0	0
TVDTKQAQDLAR	KRAS	P01116	RASK_HUMA	Unmodified	955620	953060	1117100	161260	178830	185180	0	0	0
TVEACPVVR	IGF2R; IGF2R	P11717; A0A7Z7	MPRI_HUMA	Unmodified	917110	1121300	810980	87474	56867	29870	0	0	0
TVEAEAAHGTVTR	IDH1	O75874	IDHC_HUMA	Unmodified	0	476680	463690	92163	119540	137180	0	0	0
TVEALYK	SLC25A3; SLC25A3	Q00325; F8VVM2	MPCP_HUM	Unmodified	8769000	8676600	7298100	139430	177480	251350	0	0	0
TVEDVFLR	MRPS24	Q96EL2	RT24_HUMA	Unmodified	2037200	583840	1813700	65501	0	79534	0	10991	0
TVEEALTIK	ISCU; ISCU; ISCU; IS	Q9H1K1; F5H5N2	ISCU_HUMA	Unmodified	849980	653820	626140	0	0	0	0	0	0
TVEEVTVER	TJP1; TJP1; TJP1; TJ	Q07157; A0A087	ZO1_HUMAN	Unmodified	1179400	1203700	345380	88994	94477	96748	0	0	0
TVEGALKER	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60_HUM	Unmodified	3984500	0	0	0	0	0	0	0	0
TVEHGFPNQPSALAFDPELR	LLGL1; LLGL1	Q15334; A0A087	L2GL1_HUM	Unmodified	316660	400650	563570	0	0	0	0	0	0
TVEIPDPVEAGEEVK	TGM2	P21980	TGM2_HUM	Unmodified	611530	0	0	527590	429330	408060	0	0	0
TVEIPDPVEAGEEVKVR	TGM2	P21980	TGM2_HUM	Unmodified	0	0	290200	124650	130590	78469	28123	0	0
TVEKELTYEK	SERPINB6; SERPINE	P35237; A0A087	SPB6_HUMA	Unmodified	3365900	3594100	3010200	78687	106160	57898	0	0	0
TVENIKDPLFR	DYNC1H1; DYNC1H	Q14204; A0A2R8	DYHC1_HUM	Unmodified	1044100	1287100	1880000	0	0	0	0	0	0
TVENVTVFGTASASK	VAT1; VAT1; VAT1;	Q99536; K7EM19	VAT1_HUMA	Unmodified	650410	1405800	543100	0	0	0	0	0	0
TVEPLEYYRR	EXOSC8	Q96B26	EXOS8_HUM	Unmodified	1158900	1422900	1547300	0	46746	35875	0	0	0
TVESAHVQR	DDC; DDC; DDC; DI	P20711; A0A087	DDC_HUMA	Unmodified	1218100	1052600	1159500	0	0	0	0	0	0
TVESEAASYLDQISR	PSME3; PSME3; PSA	P61289; A0A087	PSME3_HUM	Unmodified	10279000	5338200	8036100	0	0	0	0	0	6877.7
TVESITDIR	LAMP1	P11279	LAMP1_HUM	Unmodified	11239000	12378000	10834000	251220	207210	162060	0	0	0
TVESITDIRADIDKK	LAMP1	P11279	LAMP1_HUM	Unmodified	5923200	5333000	4100100	0	13549	0	20319	0	0
TVETEAVQMLK	PPP2R5D; PPP2R5D	Q14738; H0Y8C4	2A5D_HUMA	Oxidation (M)	549510	459170	0	0	0	0	0	0	0
TVETLLLR	ACAD9; ACAD9; AC	Q9H845; H0Y8Z9	ACAD9_HUM	Unmodified	1421700	1516200	1502700	27257	32560	21763	0	0	0
TVETRDGQVINETSQHHDDLE	VIM	P08670	VIME_HUMA	Unmodified	11275000	15013000	11557000	21006000	16578000	24506000	511480	517830	148530
TVETRDGQVINETSQHHDDLE	VIM	P08670	VIME_HUMA	Deamidation (N)	19322000	16145000	18896000	17355000	16439000	18783000	0	104510	37649
TVEVAEGEAVR	MTDH; MTDH; MT	Q86UE4; E5RJU9	LYRIC_HUM	Unmodified	5982700	7438200	6681200	514430	698390	747250	0	0	0
TVEVAEGEAVRTPQSVTAK	MTDH; MTDH; MT	Q86UE4; E5RJU9	LYRIC_HUM	Unmodified	7262600	6967500	5017100	734530	578990	255310	31158	0	31642
TVEVLEPEVTK	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1_HUM	Unmodified	342330	0	1061000	24220	0	0	0	0	0
TVFCMQLAAR	RBM23; RBM39; RB	Q86U06; Q14498;	RBM23_HUM	Oxidation (M)	1434700	881180	1564900	38873	160410	0	0	0	0
TVFDEAIR	RAC2; RAC3; RAC1;	P15153; P60763;	RAC2_HUMA	Unmodified	10132000	8918500	9496900	44715	84508	132410	0	21866	17928
TVFEALQAPACHENMVK	AP2A1	O95782	AP2A1_HUM	Oxidation (M)	606900	627080	848450	29839	16881	0	0	49166	0
TVFFESLER	UBA6	A0AVT1	UBA6_HUMA	Unmodified	5966500	4893200	0	0	90899	0	0	12417	0
TVFFWAPIMK	MPC2; MPC2	O95563; Q5R3B4	MPC2_HUM	Oxidation (M)	1359200	652970	674640	0	0	0	0	0	0
TVFGVEPDLTR	CNDP2	Q96KP4	CNDP2_HUM	Unmodified	8970300	8828900	8379600	926380	914200	1003000	103900	87163	158440
TVFPGAVPVLPASPPPKDSLR	EPS15L1; EPS15L1;	Q9UBC2; M0R2S	EP15R_HUM	Unmodified	0	0	0	41399	0	22637	0	0	0
TVFRPPLDIYDVLIR	NOL6; NOL6	Q9H6R4; A0A0C4	NOL6_HUMA	Unmodified	1992200	1765400	2205900	0	0	0	0	0	0
TVFSPTLPAAR	ZC3HAV1; ZC3HAV	Q7Z2W4; C9J6P4	ZCCHV_HUM	Unmodified	2205200	1897900	1401800	0	0	0	0	0	0
TVGALQVLGTEAQSSLLK	PRKDC	P78527	PRKDC_HUM	Unmodified	2207900	2366000	2145700	0	0	0	0	0	0
TVGATALPR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	Unmodified	15293000	13231000	11779000	434010	495860	473060	74795	49324	44531
TVGIDDLTGEPLIQR	AK3	Q9UIJ7	KAD3_HUMA	Unmodified	1448200	567200	730300	0	0	7146.1	0	0	0
TVGIDDLTGEPLIQREDDKPETVIK	AK3	Q9UIJ7	KAD3_HUMA	Unmodified	1673400	1160900	2377500	0	0	0	0	0	0
TVGIDDLTGEPLIQREDDKPETVIKR	AK3	Q9UIJ7	KAD3_HUMA	Unmodified	0	1397400	1806200	0	0	0	0	0	0
TVGIVGNQPK	PCCB; PCCB; PCCB	P05166; C9JQS9;	PCCB_HUMA	Unmodified	3217900	2653700	2872200	162150	117940	125680	0	0	0
TVGMLSNMIAFYDMAR	ATP6V1A	P38606	VATA_HUM	3 Oxidation (M);De	613670	161850	354820	0	0	0	0	0	0
TVGQLYKEQLAK	MYH9	P35579	MYH9_HUM	Unmodified	2717200	3113000	3092400	67319	51700	51275	0	0	0
TVGQLYKESLSR	MYH14; MYH14	Q7Z406; M0QY42	MYH14_HUM	Unmodified	742630	967090	931690	0	0	0	0	0	0
TVGTPIASVPGSTNTGTVPGSEK	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1_HUM	Deamidation (N)	513820	770180	685820	0	14564	0	0	0	0
TVGVEPAADGKGVVVVIK	RPL28; RPL28; RPL2	P46779; H0YKD8	RL28_HUMA	Unmodified	5030000	4323000	3632200	0	26570	23789	0	0	0
TVGVNNPVFLLDEVDKLGK	LONP2; LONP2; LO	Q9NW68; H3BQ6	LONP2_HUM	Unmodified	416410	372410	419840	0	0	0	0	0	0
TVHDMEQFGQQQYDIYER	PKP4; PKP4	Q99569; A0A0D9	PKP4_HUMA	Oxidation (M)	1466500	1355900	665580	283890	280810	126670	25060	0	0
TVIDYNGER	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	33321000	25379000	47039000	2538200	1686900	3200600	0	0	50723
TVIDYNGERTLDGFKK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	4857200	7149100	6772400	366550	462260	436940	52351	59552	18764
TVIEPMASEGLR	ATP2B1; ATP2B1	P20020; E7ERY9	AT2B1_HUM	Oxidation (M)	0	0	954330	0	0	0	0	0	0
TVIFVATGEGK	PGLS; PGLS	O95336; M0R261	6PGL_HUMA	Unmodified	7208000	5714700	5295700	36933	36835	28892	0	0	0
TVIIEQSWGSPK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	66086000	68502000	74768000	288210	2091200	2242000	168850	138820	182340
TVIIEQSWGSPKVTK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Methyl (KR)	4896900	4505000	4247800	103080	103610	44202	21916	0	0
TVIIEQSWGSPKVTK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	720500	1217300	869000	480690	432600	459830	46342	109620	52580
TVIIEQSWGSPKVTKDGVTVAK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Methyl (KR)	1692000	6182300	7370100	0	0	0	0	0	0
TVIIEQSWGSPKVTKDGVTVAK	HSPD1; HSPD1; HSP	P10809; A0A7Z7	CH60_HUMA	Unmodified	0	0	0	313710	194680	284940	25526	20752	80812
TVIIHDRPDITHPR	SLTM; SLTM	Q9NWH9; H7C3F	SLTM_HUMA	Unmodified	6793100	4583600	8966400	113830	132990	174700	0	0	0
TVIKEGEEQLQTQHQK	POLR2B; POLR2B; F	P30876; C9J2Y9;	RPB2_HUMA	Unmodified	1399600	0	1551700	0	0	0	0	0	0
TVIPGMPTVIPPGLTR	SF1; SF1; SF1; SF1	Q15637; F8WEV5	SF01_HUMA	Oxidation (M)	13013000	10188000	9706400	179660	196710	145170	0	0	0
TVIPGMPTVIPPGLTREQER	SF1; SF1; SF1; SF1	Q15637; F8WEV5	SF01_HUMA	Oxidation (M)	925940	1194600	1160400	26239	22497	0	0	0	0
TVIRLPSGSGAASPTGSAVDIR	AHNAK	Q09666	AHNK_HUM	Unmodified	1390400	974600	1778000	213000	227420	139240	104640	57981	80438
TVISQSLSK	ATP6V1A	P38606	VATA_HUM	Unmodified	2318300	1736700	9436300	0	46172	0	0	0	0
TVITEEFKVPDK	FUBP3	Q96I24	FUBP3_HUM	Unmodified	1107800	1037700	1329400	37985	0	0	0	0	0
TVITEEFKVPDKMVGFIIGR	FUBP3	Q96I24	FUBP3_HUM	Oxidation (M)	6581100	4291500	4420800	0	0	0	0	0	0
TVITNEYMKEDFLIK	PITPNA; PITPNA; PI	Q00169; I3L459;	PIPNA_HUM	Oxidation (M)	0	0	958440	0	0	0	0	0	0
TVITPDPNLSIDQVGVPR	POLR2A; POLR2A	P24928; A0A6Q8	RPB1_HUMA	Unmodified	1958200	726740	1325700	78962	74552	38107	0	0	0
TVIVHGFTLGEKGEK	IARS2	Q9NSE4	SYIM_HUMA	Unmodified	3677800	781440	2551100	0	0	0	0	0	0
TVIVTPSQR	PCK2; PCK2	Q16822; H0YM31	PCKGM_HUM	Unmodified	4077800	3894300	3725600	165830	188780	260040	13185	0	0
TVKDQDITRFQNSLKELQLQK	DSP	P15924	DESP_HUMA	Unmodified	510390	0	0	0	0	0	0	0	0
TVKDSTPSSLDSDPLMAMLLK	NAV1; NAV1	Q8NEY1; A0A0A	NAV1_HUMA	2 Oxidation (M)	826460	1555100	369110	0	0	0	0	0	0
TVKEEAEKPER	PRKCSH; PRKCSH	P14314; K7ELL7	GLU2B_HUM	Unmodified	10546000	11048000	8050900	613970	691230	921010	0	0	0
TVKEEAEKPEREAK	PRKCSH; PRKCSH	P14314; K7ELL7	GLU2B_HUM	Unmodified	4666600	8899700	6131900	151720	291470	144070	0	0	0
TVKHPTLLQDPDLRQFLESSELPR	SNX2	O60749	SNX2_HUMA	Unmodified	1462800	3907100	3297600	0	0	0	0	0	0
TVKQPVYVVDVSK	NDUFA9; N/A	Q16795; A0A3B3	NDUA9_HUM	Unmodified	852260	1005800	0	0	0	0	0	0	0
TVLDLIVEDLQSTSEDKEK	VIRMA; VIRMA	Q69YN4; H0YBN	VIR_HUMAN	Unmodified	232100	81316	240550	0	0	0	0	0	0
TVLDPVTGDLSDTR	SF3B3	Q15393	SF3B3_HUM	Unmodified	6812900	7582800	7158800	177910	165620	39216	0	0	0
TVLDPVTGDLSDTRTR	SF3B3	Q15393	SF3B3_HUM	Unmodified	2237700	1837000	1748200	131090	165840	141270	0	0	0
TVLDQQQTPSR	LRPPRC	P42704	LPPRC_HUM	Unmodified	3294600	3254300	3075800	0	0	0	0	0	0
TVLEHYALEDDPLAAFK	TIMM50; TIMM50; T	Q3ZCQ8; M0R2F	TIM50_HUM	Unmodified	4413000	2959800	4063400	0	0	0	0	0	0
TVLEHYALEDDPLAAFKQR	TIMM50; TIMM50; T	Q3ZCQ8; M0R2F	TIM50_HUM	Unmodified	1372700	1213500	1157200	0	0	0	0	0	0
TVLEQVLPI	DNAJB1; DNAJB1; I	P25685; A0A7Z7	DNJB1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
TVLFTNAR	MTREX	P42285	MTREX_HUM	Unmodified	1315600	1501100	937820	0	0	91820	0	0	0
TVLGQQILGQLDSSSLALPSEAK	PKP2	Q99959	PKP2_HUMA	Unmodified	2096700	1116100	1219400	0	0	0	0	0	0
TVLGTPEVLLGALPGAGGTQR	HADHA; HADHA; H	P40939; H0YFD6	ECHA_HUMA	Unmodified	35605000	36385000	44385000	34226	0	44571	18463	0	13973
TVLGTPEVLLGALPGAGGTQRLPK	HADHA; HADHA; H	P40939; H0YFD6	ECHA_HUMA	Unmodified	8381100	10158000	0	0	0	0	0	0	0
TVLIMELINNVAK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M);Deai	4970400	2928900	5009200	20389	23157	15852	0	0	0
TVLIMELINNVAK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Oxidation (M)	3688600	4073100	4752200	0	11033	0	20774	21225	0
TVLLVGGLPLPPQLYR	DDX59	Q5T1V6	DDX59_HUM	Unmodified	28667	20145	18677	0	0	0	0	0	0
TVLNQILR	HUWE1; HUWE1	Q7Z6Z7; H0Y659	HUWE1_HUM	Unmodified	2690800	2878700	3016900	0	0	0	0	0	0
TVLNSEVLEQR	SHTN1	A0MZ66	SHOT1_HUM	Unmodified	871160	1127800	869480	0	0	0	0	0	0
TVLNSEVLEQR	SHTN1	A0MZ66	SHOT1_HUM	Deamidation (N)	1241000	944480	1227100	0	0	53359	0	0	0
TVLPFSQEFQR	CYFIP1	Q7L576	CYFP1_HUM	Unmodified	3966300	2231900	2619600	220310	239960	280920	34158	0	39683
TVLQEIK	PHF6; PHF6; PHF6	Q8IWS0; Q5JRC6	PHF6_HUMA	Unmodified	919020	240340	1202900	0	0	0	0	0	0
TVLSGSIMQGTPR	NCOR1; NCOR1	O75376; A0A088	NCOR1_HUM	Oxidation (M)	0	0	0	0	0	205670	0	0	0
TVLSNVQEELDR	DYNC1LI2; DYNC1I	O43237; J3KRI4	DC1L2_HUM	Unmodified	1359200	436100	857960	0	0	0	0	0	0
TVLVNADGEEVAMR	LMNB2	Q03252	LMNB2_HUM	Oxidation (M)	6467000	4625600	2785100	1417700	1233000	1667100	0	0	0
TVLVNADGEEVAMR	LMNB2	Q03252	LMNB2_HUM	Oxidation (M);Deai	2117300	1814300	1617200	550400	70587	824050	0	0	0
TVLVNADGEEVAMRTVK	LMNB2	Q03252	LMNB2_HUM	Oxidation (M)	0	0	0	685310	824360	2644000	0	0	0
TVLVNADGEEVAMRTVK	LMNB2	Q03252	LMNB2_HUM	Oxidation (M);Deai	0	0	0	170550	157300	175440	0	0	0
TVLVSSGLREPR	LRP1	Q07954	LRP1_HUMA	Unmodified	64313	681310	525960	233840	225750	193550	0	0	0
TVMIKTIETRDGEVVSEATQQQHEVL	DES	P17661	DESM_HUM	Oxidation (M)	0	0	0	0	0	0	951070	0	77872
TVMIPGPQLKPEEEYEEAQGEAQKPQLA	MRPL45; MRPL45; 1	Q9BRJ2; A0A087	RM45_HUMA	Oxidation (M)	5491500	2170700	5273700	0	0	0	0	0	0
TVMPYISTTPAK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1_HUMA	Oxidation (M)	6851900	6550900	5086700	0	49371	0	0	0	0
TVMVQEGNVESAYR	MRPS21	P82921	RT21_HUMA	Oxidation (M)	985910	1298800	1142900	0	0	0	0	0	0
TVNDELQANIWDPQHMDK	EFR3B; EFR3B; EFR	Q9Y2G0; E7ESK9	EFR3B_HUM	Oxidation (M);Met	515650	0	583830	0	0	0	0	0	0
TVNLSVTPSPAPR	PHACTR4	Q8IZ21	PHAR4_HUM	Unmodified	663860	550770	571490	167790	156170	156840	23197	0	0
TVNTFSQSVSSLFGEDNVR	BRI3BP; BRI3BP	Q8WY22; A0A5F	BRI3B_HUM	Deamidation (N)	674980	519950	587490	0	0	0	0	0	0
TVNTFSQSVSSLFGEDNVR	BRI3BP; BRI3BP	Q8WY22; A0A5F	BRI3B_HUM	Unmodified	0	751450	1170600	0	0	0	0	0	0
TVNVPFHLALSDK	RAB3GAP2	Q9H2M9	RBGPR_HUM	Unmodified	259890	0	0	0	7785	0	0	0	0
TVNVVQFEPSKGAIGK	GARS1; GARS1; GA	P41250; A0A6Q8	GARS_HUMA	Unmodified	1018800	1198100	1169900	0	0	46179	0	0	7561.1
TVPEELVKPEELSK	PRPF19; PRPF19; PR	Q9UMS4; F5GY5	PRP19_HUM	Unmodified	20082000	18223000	16540000	467660	569420	556570	0	0	0
TVPEELVKPEELSKYR	PRPF19; PRPF19; PR	Q9UMS4; F5GY5	PRP19_HUM	Unmodified	1157700	824440	1140300	83255	65512	66343	36151	0	0
TVPFCSTFAAFFTR	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Unmodified	1471000	1237500	1817800	0	0	0	0	0	0
TVPLYESPR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	1842500	1786000	1834800	240810	448240	220950	34784	41882	56856
TVPQYKYAAGVR	PABPC1; PABPC1; F	P11940; A0A087	PABP1_HUM	Unmodified	352180	260880	273930	99650	87792	74543	43589	40366	47795

TVPSTPTLVVPHR	TPR	P12270	TPR_HUMAN	Unmodified	1105800	647590	0	0	0	0	0	0
TVPVEAVTSK	CTTN	Q14247	SRC8_HUMA	Unmodified	9842900	12020000	12183000	1309100	1120700	1249900	119730	60361
TVPVEAVTSKTSNIR	CTTN	Q14247	SRC8_HUMA	Unmodified	1033300	1410300	1218500	923430	961010	488480	194860	114260
TVPVPSGKVDPVSLGK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	1212100	1275300	1240500	0	0	0	0	0
TVPYTDPDHASLK	PITRM1; PITRM1; P	Q5JRX3; A0A7Z7	PREP_HUMA	Unmodified	485730	1271100	0	0	0	0	0	0
TVQAAPPALPGPPGAPVNMYSR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Oxidation (M)	1052800	890270	0	550730	531630	87400	27881	21225
TVQAAPPALPGPPGAPVNMYSR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Oxidation (M);Deai	145150	558090	1048900	316310	272550	419790	86394	87101
TVQAAPPALPGPPGAPVNMYSRR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Oxidation (M);Deai	1129000	762060	0	0	86311	133810	38004	35736
TVQGPPTSDDIFER	OAT	P04181	OAT_HUMAN	Unmodified	4131200	2493400	2324200	59052	72125	55945	0	0
TVQGPPTSDDIFEREYK	OAT	P04181	OAT_HUMAN	Unmodified	2807600	3869800	3999300	0	19433	0	0	0
TVQIEASTVEIEER	SEPTIN2; SEPTIN2;	Q15019; C9JZU3;	SEPT2_HUM	Unmodified	3343100	2742100	2016600	80952	21136	0	0	0
TVQIPVYDFVSHSR	UCK2; UCK2	Q9BZX2; A0A2R	UCK2_HUMA	Unmodified	1047200	1046500	1007300	0	0	0	0	0
TVQLTSSELESTLETLK	LRPPRC	P42704	LPPRC_HUM	Unmodified	2588300	2685200	3876100	0	0	0	0	0
TVQNVLDLR	NAV1; NAV1	Q8NEY1; A0A0A	NAV1_HUMA	Unmodified	685720	863490	0	0	0	0	0	0
TVQPTQSPYPTQLFR	ELF1; ELF1	P32519; A0A0U1	ELF1_HUMA	Unmodified	634330	860590	979200	96168	90378	150010	67365	15496
TVQPVAMGPDGLPVDASSVSNNYIQTLGR	CTNND1; CTNND1;	O60716; E9PKL1;	CTND1_HUM	Oxidation (M);Deai	2298200	1535600	1983300	0	0	0	0	0
TVQQHAGETDPVTTMR	HAGH; HAGH; HAG	Q16775; H3BPK3	GLO2_HUMA	Oxidation (M)	3055600	3633400	3922400	165810	170900	0	0	0
TVQQVNQEK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50_HUM	Unmodified	0	0	155370	0	0	0	0	0
TVQVVPHITDAIQEWVMR	CTPS1; CTPS1; CTP	P17812; A0A3B3I	PYRG1_HUM	Oxidation (M)	1260400	0	2062500	0	0	0	0	0
TVRDTLLALHQHGHSGPFESK	IRF2BP2	Q7Z5L9	I2BP2_HUMA	Unmodified	437160	431120	369710	0	0	0	0	0
TVSALGLDPSGAR	WDR70; WDR70	Q9NW82; D6RIW	WDR70_HUM	Unmodified	2032300	1824200	2230000	143990	170780	365120	0	0
TVSASSTGDLPK	SRPK2; SRPK2	P78362; H7C5L6	SRPK2_HUM	Unmodified	0	519120	566600	72586	49701	80494	0	0
TVSGVNGPLVILDHVK	ATP6V1B2; ATP6V1	P21281; E5RGH6	VATB2_HUM	Deamidation (N)	4027100	2513700	5332100	0	0	0	0	0
TVSGVNGPLVILDHVKFPR	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2_HUM	Deamidation (N)	2277800	1578700	1194700	0	0	0	0	0
TVSKVDDFLANEAK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Unmodified	7272300	8143900	0	104770	119020	86779	19065	13367
TVSKVDDFLANEAK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Deamidation (N)	4060700	4004300	5439200	0	0	0	0	0
TVSKVDDFLANEAK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Methyl (KR)	852660	561270	841620	12495	0	0	0	0
TVSLGAGAK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Unmodified	73982000	59807000	65568000	786490	430660	495450	28708	29620
TVSLGAGAKDELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Deai	34562000	20593000	37918000	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	49324000	34024000	39475000	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Met	6183600	5781400	6661300	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Met	955580	6427600	1536700	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIKVTLATLK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Deai	9654300	0	2086500	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIKVTLATLK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M)	17146000	0	3482800	0	0	0	0	0
TVSLGAGAKDELHIVEAEAMNYEGSPIKVTLATLK	NPM1; NPM1; NPM1	P06748; A0A7Z7	NPM_HUMA	Oxidation (M);Met	2421700	0	0	0	0	0	0	0
TVSLLDENNVSSYLSK	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	2203800	1507700	1877000	36747	19667	39956	0	0
TVSLLDENNVSSYLSK	PRKDC	P78527	PRKDC_HUM	Unmodified	0	0	452630	0	0	0	0	0
TVSLPPPDLGTGTDGPAGSDTSPFR	TRMT61A; TRMT61	Q96FX7; H0Y2Q1	TRM61_HUM	Unmodified	8989600	6617300	5574000	154850	124150	67592	0	0
TVSPALISR	CAND1; CAND1; CA	Q86VP6; A0A0C4	CAND1_HUM	Unmodified	7381500	6619900	7585600	342510	255110	347180	0	0
TVSPDRLELEAAQK	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Unmodified	36540000	34756000	30415000	74962	89404	76001	14234	0
TVSPDRLELEAAQKFLER	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Unmodified	20731000	21388000	14129000	0	0	0	0	0
TVSPDRLELEAAQKFLER	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Methyl (KR)	0	304530	301180	0	0	0	0	0
TVSSHEVFLQR	SNX5; SNX5; SNX5	Q9Y5X3; Q5QPE4	SNX5_HUMA	Unmodified	1511700	2705300	3320000	75297	101790	0	0	0
TVSTLHHVLQR	PDXK; PDXK	O00764; F2Z2Y4	PDXK_HUMA	Unmodified	791740	0	0	0	0	0	0	0
TVSVSEAIK	DSP	P15924	DESP_HUMA	Unmodified	6051000	5979500	5073300	53010	0	43101	0	0
TVSVSEAIKK	DSP	P15924	DESP_HUMA	Unmodified	959330	997410	1005100	0	0	0	0	0
TVTAAGAENIQQK	PDS5A	Q29RF7	PDS5A_HUM	Unmodified	1263100	1593000	1507300	0	111060	142730	0	0
TVTAAGAENIQQKTDEKVDESGPPAPSKPR	PDS5A	Q29RF7	PDS5A_HUM	Unmodified	2088000	0	2797800	0	0	0	0	0
TVTAEVQPQCGR	P3H1	Q32P28	P3H1_HUMA	Unmodified	1060100	0	0	126660	83250	128850	0	0
TVTAMDVVYALK	H4C1	P62805	H4_HUMAN	Oxidation (M)	194610000	214080000	234310000	3592200	2914600	3242800	778320	858400
TVTAMDVVYALKR	H4C1	P62805	H4_HUMAN	Oxidation (M)	1844600000	1810000000	1894200000	52209000	43869000	31728000	2283900	3320700
TVTAMDVVYALKR	H4C1	P62805	H4_HUMAN	Unmodified	4134900	2310100	3721100	14500	0	0	0	0
TVTAMDVVYALKR	H4C1	P62805	H4_HUMAN	Oxidation (M);Met	2226200	2271700	1869900	37309	36456	17368	0	0
TVTAMDVVYALKRQGR	H4C1	P62805	H4_HUMAN	Oxidation (M)	0	0	0	288620	253440	127510	95816	94158
TVTATFGYPFR	SYPL1; SYPL1; SYP	Q16563; A0A0U1	SYPL1_HUM	Unmodified	4037000	3906500	3829700	0	0	0	0	0
TVTELVTK	FTSJ3	Q8IY81	SPB1_HUMA	Unmodified	964170	1449600	1139400	0	29679	0	0	0
TVTLGGDVFDPHGTLSGGAR	SMC2	O95347	SMC2_HUMA	Unmodified	8376800	7328100	7039100	0	0	0	0	0
TVTLKEDPGKV	QARS1; QARS1; QA	P47897; H7C0R3	SYQ_HUMAN	Unmodified	541370	589090	913980	141310	194360	146590	0	0
TVTLSKMKQSLGISISGGIESKVQPMVK	PDZD7	Q9H5P4	PDZD7_HUM	2 Oxidation (M)	1390500	0	0	0	0	0	0	0
TVTNAVVTVPAYFNDSQR	HSPA8; HSPA8; HSP	P11142; E9PQK7	HSP7C_HUM	Unmodified	8921900	10098000	7139100	219280	0	137960	0	47153
TVTNAVVTVPAYFNDSQR	HSPA8; HSPA8; HSP	P11142; E9PQK7	HSP7C_HUM	Deamidation (N)	25718000	28000000	24928000	30509	171380	152060	0	0
TVTNAVVTVPAYFNDSQR	HSPA8; HSPA8; HSP	P11142; E9PQK7	HSP7C_HUM	2 Deamidation (N)	8490200	6901900	6614000	81329	19076	12023	0	0
TVTNAVVTVPAYFNDSQRQATK	HSPA8; HSPA8; HSP	P11142; E9PQK7	HSP7C_HUM	Deamidation (N)	2931300	2104000	3012900	31462	0	0	0	0
TVTNAVVTVPAYFNDSQRQATK	HSPA8; HSPA8; HSP	P11142; E9PQK7	HSP7C_HUM	2 Deamidation (N)	2477000	3572900	3747400	0	0	18439	0	0
TVTPAKAVTTPGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	471570	697640	723850	114610	108860	119760	17326	22949
TVTPAKAVTTPGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Methyl (KR)	4518900	4269600	3908500	61096	102180	0	11960	19459
TVTPALSSNVLPR	LNPK	Q9C0E8	LNP_HUMAN	Unmodified	3721700	4079800	3887500	333010	398040	420040	150870	120300
TVTPALSSNVLPR	LNPK	Q9C0E8	LNP_HUMAN	Deamidation (N)	742670	0	676840	59965	32573	47504	0	0
TVTPASSAK	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Unmodified	0	5441400	4822700	917770	1817000	1409100	0	0
TVTQVPSDPDPPAPLAEGAFLAEASLLK	ZNF687; ZNF687	Q8N1G0; F8WCX	ZN687_HUM	Unmodified	377450	147330	313750	0	0	0	0	0
TVTSALKELYR	EHD2	Q9NZN4	EHD2_HUMA	Unmodified	621000	446930	545310	0	9248.8	10246	0	0
TVTSATIVYHLAR	UPF1	Q92900	RENT1_HUM	Unmodified	6235200	0	0	0	0	0	0	0
TVTSFYNQSAIDAAAEKPSVR	BCKDK; BCKDK; BC	O14874; H3BTL2	BCKD_HUMA	Unmodified	966170	874940	917050	60290	0	0	0	0
TVVAGSSDAAQK	DDAH2; DDAH2; DE	O95865; H0Y7N1	DDAH2_HUM	Unmodified	7290600	8133200	8823200	0	775920	733510	0	0
TVVAGSSDAAQKAVR	DDAH2; DDAH2; DE	O95865; H0Y7N1	DDAH2_HUM	Unmodified	0	0	0	1724600	1532100	1847600	144250	118550
TVVAPMLDSR	COLGALT1; COLGA	Q8NBJ5; M0QYH	GT251_HUM	Oxidation (M)	1203600	936980	0	131150	0	0	0	0
TVVAPSAVAGK	NDUFB11	Q9NX14	NDUBB_HUM	Unmodified	26703000	20532000	21330000	1114200	1213400	1426600	0	0
TVVENIR	NUP107	P57740	NU107_HUM	Unmodified	1423800	809950	1208000	0	0	0	0	0
TVVGQITVDMMYGGMR	CS; CS; CS; CS; CS;	O75390; F8W4S1;	CISY_HUMA	3 Oxidation (M)	5244000	6368000	6572800	77678	0	19731	0	0
TVVGQITVDMMYGGMRGMK	CS; CS; CS; CS; CS;	O75390; F8W4S1;	CISY_HUMA	4 Oxidation (M)	8840700	11599000	12565000	408360	44479	0	0	0
TVVLPPIVASR	ZC3H11A; ZC3H11A	O75152; E9PBY7	ZC11A_HUM	Unmodified	2620400	2630900	1980600	45925	0	0	0	0
TVVSGLVNHVPLEQMQNR	AIMP1; AIMP1	Q12904; A0A5F9	AIMP1_HUM	Oxidation (M);Deai	4653200	3857000	4715200	331140	247030	210550	64074	48974
TVVSGLVNHVPLEQMQNR	AIMP1; AIMP1	Q12904; A0A5F9	AIMP1_HUM	Oxidation (M)	0	0	0	400230	0	0	103170	0
TVVSGLVQFVPKEELQDR	YARS1; YARS1	P54577; A0A6Q8	SYYC_HUMA	Unmodified	932070	761110	911540	0	0	0	0	0
TVVSHSLTTLGLEVAK	TMPO	P42166	LAP2A_HUM	Unmodified	10397000	8263000	8479300	0	0	0	0	0
TVVTGIEMFHK	TUFM	P49411	EFTU_HUMA	Oxidation (M)	7484900	9183100	8133300	311520	588220	641080	0	0
TVWDWELMNDIKPIWQRPSK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	Oxidation (M);Deai	4223700	4484600	4915400	0	0	0	0	0
TVWLVGR	FDXR; FDXR; FDXR	P22570; A0A0A0	ADRO_HUM	Unmodified	728150	702290	491550	0	0	0	0	0
TVWSSGDDKEQLVK	SPINT2; SPINT2; SPI	O43291; K7EM91	SPIT2_HUM	Unmodified	1348500	969450	1179200	0	0	81144	0	0
TVYFAEK	CRIP2; CRIP2	P52943; H0YHD8	CRIP2_HUM	Unmodified	1872400	1413000	1558100	32656	37349	0	0	0
TVYGGGCSEMLMAHAVTQLANR	CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	2 Oxidation (M)	1406700	1083600	906330	0	0	0	0	0
TVYHAEEVQCDGR	CSRP2; CSRP2; CSR	Q16527; F8VQR7	CSRP2_HUM	Unmodified	573200	1102700	273380	0	80430	42335	0	0
TVYNIFRP	GSTA4	O15217	GSTA4_HUM	Unmodified	3593900	3942600	3475600	78776	0	0	20302	31412
TVYSILR	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A_HUMA	Unmodified	1421100	1005900	1577200	0	0	0	0	0
TWEGWEPWM	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	476840	416600	371020	12714	0	0	0	0
TWELSLYELHR	RING1	Q06587	RING1_HUM	Unmodified	989170	515750	581650	0	0	0	0	0
TWGADVINMTTVPEVVLAK	MTAP; MTAP; MTA	Q13126; J3KRN1	MTAP_HUM	Oxidation (M)	849940	958690	1665700	0	0	0	0	0
TWGADVINMTTVPEVVLAK	MTAP; MTAP; MTA	Q13126; J3KRN1	MTAP_HUM	Oxidation (M);Deai	772020	1095600	0	0	0	0	0	0
TWLGLLEEAYTLVQHQVSEGLSALK	NIBAN1	Q9BZQ8	NIBA1_HUM	Unmodified	4815000	4758800	4841900	0	0	0	0	0
TWNDPSVQQDIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Deamidation (N)	3860300	4531000	4041200	0	31825	23823	0	0
TWNDPSVQQDIK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	4168300	0	3110200	0	0	0	0	0
TWNDPSVQQDIKFLPFK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	1495300	2160400	1921400	0	0	0	0	0
TWNDPSVQQDIKFLPFK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP_HUMAN	Unmodified	4908900	6667500	7747400	0	0	0	0	0
TWPSSHSVTDILGIR	PAX9	P55771	PAX9_HUMA	Unmodified	883890	935940	675910	0	0	0	0	0
TWTQTYK	TOP2A	P11388	TOP2A_HUM	Unmodified	1280300	0	1564300	0	0	0	0	0
TWTQVYK	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B_HUM	Unmodified	1085000	1049000	1158700	0	0	0	0	0
TWTVVDAK	XRCC5	P13010	XRCC5_HUM	Unmodified	3615300	2462400	3847400	36754	0	45044	0	0
TYADYESVNECMEGVCK	ERH; ERH	P84090; G3V279	ERH_HUMAN	Oxidation (M)	2338900	0	2794300	137250	150270	138740	0	0
TYAEMDPTTAALEKEHEAITK	KAT8	Q9H7Z6	KAT8_HUMA	Oxidation (M)	449740	459860	441780	0	0	0	0	0
TYAEPLTAAMVEFYTMSQER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	2 Oxidation (M)	1295400	1731200	1750900	0	0	0	0	0
TYAGGTASATKVSASSGATSK	CAST; CAST; CAST;	H0Y944; A0A6Q8	H0Y944_HUM	Unmodified	0	0	0	180430	252600	170420	0	59032
TYAYLFSHPSR	CEL	P19835	CEL_HUMAN	Unmodified	2700300	2384600	2055200	0	0	0	0	0
TYDATTHFETTCDDIK	GDI2	P50395	GDIB_HUMA	Unmodified	1803100	1236500	1423000	0	40788	65540	0	0
TYDATTHFETTCDDIKNIYKR	GDI2	P50395	GDIB_HUMA	Unmodified	5966600	4934900	5221700	99484	0	0	65755	0
TYDETYQR	PPP1R12A; PPP1R12	O14974; H0YIS3	MYPT1_HUM	Unmodified	1673900	1533600	1399900	219280	278550	264190	0	0
TYDLYITYDKYYQTPR	ATG3	Q9NT62	ATG3_HUMA	Unmodified	1429400	1214700	803480	0	0	0	0	0
TYEDIKENLESR	MPST; MPST	P25325; B1AH49	THTM_HUM	Unmodified	2324100	1973700	1676800	45585	29098	27057	0	0
TYEDIKENLESRR	MPST; MPST	P25325; B1AH49	THTM_HUM	Unmodified	1073700	0	0	0	0	0	0	0
TYEEGLK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUMA	Unmodified	2193700	1818200	1837000	0	27377	0	0	0
TYEEGLKHEANNPQLK	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUMA	Unmodified	7589500	7039300	3668500	122130	53999	0	0	0
TYEEGLKHEANNPQLKEGLQNMEAR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUMA	Oxidation (M)	2080000	0	0	0	0	0	0	0
TYEEGLKHEANNPQLKEGLQNMEAR	STIP1; STIP1; STIP1	P31948; F5H783;	STIP1_HUMA	Methyl (KR);2 Dea	0	4015700	4735800	0	0	0	0	0
TYEQMEFPLLK	ADNP; ADNP; ADNF	Q9H2P0; A0A669	ADNP_HUMA	Oxidation (M)	2393700	2238300	1843400	128620	144530	178250	0	0
TYEQVLENLESK	TST	Q16762	THTR_HUMA	Unmodified	224620	1142700	303530	0	0	0	0	0
TYEQVLENLESKR	TST	Q16762	THTR_HUMA	Unmodified	1687000	2131400	2849500	0	0	0	10717	0
TYEVSLR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	4810400	4288800	3751600	66779	173560	0	0	0
TYFSCTSAHTSTGDGTAMITR	SDHA; SDHA; N/A	P31040; D6RFM5	SDHA_HUMA	Oxidation (M)	657570	569370	670030	109360	148700	60067	0	0
TYGADLASVDFQHASEDAR	SERPINB1	P30740	ILEU_HUMA	Unmodified	1488300	1202200	2083900	41742	40377	26440	0	0
TYGEPESAGPSR	EMD; EMD	P50402; Q5HY57	EMD_HUMA	Unmodified	19225000	18939000	16788000	5111300	4943600	5634100	0	47795
TYGEPESAGPSRAVR	EMD; EMD	P50402; Q5HY57	EMD_HUMA	Unmodified	0	1320000	2048600	761000	932460	1161900	46779	43210
TYGESMLYLDGQR	ACOT9	Q9Y305	ACOT9_HUM	Oxidation (M)	649310	857980	908850	0	0	0	0	0
TYGGDTGSPEISFTK	FRYL; FRYL; FRYL;	O94915; H0Y9X0	FRYL_HUMA	Unmodified	0	0	0	0	0	0	0	0

TYGQSTYSR	PSMC2; PSMC2; PSM	P35998; C9JLS9;	PRS7_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
TYHALSNLPK	PSMD11; PSMD11	O00231; J3QS13	PSD11_HUM	Unmodified	0	551100	755960	0	0	0	0	0	0
TYHSVGDSVLR	IGF2R; IGF2R; IGF2R	P11717; A0A7I2V	MPRI_HUMA	Unmodified	3502600	1722800	1500000	166450	223940	325820	0	0	0
TYIELLPPAEK	SORBS1; SORBS1	Q9BX66; A0A0U	SRBS1_HUM	Unmodified	1607500	637500	818960	0	110360	127320	104250	49518	0
TYIELLPPAEKAQPK	SORBS1; SORBS1	Q9BX66; A0A0U	SRBS1_HUM	Unmodified	0	343400	0	42902	46117	43366	47044	48060	58234
TYITDPVSAPCAPPLQPK	LPP; LPP; LPP; LPP	Q93052; C9JUT4;	LPP_HUMAN	Unmodified	0	0	0	0	0	0	110850	98837	244860
TYKGSEEELADIK	DNAJC9	Q8WXX5	DNJC9_HUM	Unmodified	0	2136900	0	0	0	0	0	0	0
TYLGNALVCTCYGGSR	FN1	P02751	FINC_HUMA	Unmodified	0	556530	504470	109680	0	232400	25593	0	0
TYLLDFR	PRKAA1	Q13131	AAPK1_HUM	Unmodified	1106700	857310	896780	99444	99908	87724	19139	22086	0
TYLPDFR	GFUS; GFUS	Q13630; H0YCP7	FCL_HUMAN	Unmodified	9459600	9514500	9390300	187960	184240	162760	0	0	0
TYLPSQVSR	COPB2; COPB2; COI	P35606; H0YAC7	COPB2_HUM	Unmodified	4299800	0	4705400	226370	223020	242540	23241	29620	31227
TYLSEGPYYVKPVSTTAVEGAE	PSMD5	Q16401	PSMD5_HUM	Unmodified	475550	6407700	5731100	0	0	0	0	22420	0
TYLVSGQPLEEITYYPAMK	PTGES2; PTGES2; P	Q9H7Z7; A0A7I2	PGES2_HUM	Oxidation (M)	0	655760	591450	0	0	0	0	0	0
TYMDVMREQHLTKEER	SF3B1	O75533	SF3B1_HUM	2 Oxidation (M)	2889400	3966300	358100	0	0	0	0	0	0
TYQELLVNQNPIAQPLASR	NHP2; NHP2; NHP2;	Q9NX24; D6RC5	NHP2_HUMA	Unmodified	3738500	3149600	3160900	0	0	0	0	0	13696
TYQELLVNQNPIAQPLASR	NHP2; NHP2; NHP2;	Q9NX24; D6RC5	NHP2_HUMA	Deamidation (N)	1896500	2519300	3128300	0	0	0	0	0	0
TYSLGSALRPSTSR	VIM; VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	513690	422200	411810	1775100	1922200	1946900	0	109490	154910
TYSLSPR	LDB1; LDB1	Q86U70; A0A6E1	LDB1_HUMA	Unmodified	946750	860860	816480	0	0	0	0	14609	13546
TYSTSFTPMYHAVTK	GSR	P00390	GSHR_HUMA	Oxidation (M)	811880	553090	0	0	0	81307	0	0	0
TYSVEYLPK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	775550	0	0	81169	61139	59673	0	0	0
TYSVVPMTSR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	13621000	13498000	10733000	855670	529750	706560	0	0	0
TYSYLTPDLWK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Unmodified	9441000	8506100	12414000	0	16293	21238	0	0	0
TYSYLTPDLWKETVFTK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Unmodified	4513800	4042800	4655000	0	0	0	0	0	0
TYSYLTPDLWKETVFTK	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2_HUMAN	Methyl (KR)	959940	637730	584780	0	0	0	0	0	0
TYTDELTPIESAVSVFK	NDUFS3	O75489	NDUS3_HUM	Unmodified	1181400	856220	1102700	0	0	0	0	0	0
TYTIANQFPLNKLTELLR	FARSB	Q9NSD9	SYFB_HUMA	Deamidation (N)	358120	121260	252160	0	0	0	0	0	0
TYTIANQFPLNKLTELLR	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	0	0	194850	0	0	0	0	0	0
TYTQLVR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	Unmodified	2034200	2604000	2340400	49667	0	0	0	0	0
TYTTQLEDLR	SYNE2; SYNE2; SYN	Q8WXH0; A0A0C	SYNE2_HUM	Unmodified	785530	869110	590670	0	0	0	0	0	0
TYVGPMTESLFPGYHTK	PLOD3	O60568	PLOD3_HUM	Oxidation (M)	3041800	3038000	2736200	227390	177140	209490	0	0	0
TYVVTGNMGSNDKVGDFVATDLDTGRPSTTVR	DSG1	Q02413	DSG1_HUMA	Oxidation (M)	898760	0	1177900	0	0	0	0	0	0
TYYMSGGLQPVPIVFR	PDHB; PDHB; PDHB	P11177; F8WF02;	ODPB_HUMA	Oxidation (M)	7407900	6976800	7292600	30514	0	31822	0	0	0
TYYYNTETK	PRPF40A; PRPF40A;	O75400; H0YG38	PR40A_HUM	Unmodified	881670	211840	398780	0	0	0	0	0	0
VAAAESMPLLLECAR	IPO5; IPO5	O00410; H0Y8C6	IPO5_HUMA	Oxidation (M)	2780700	776060	2236600	61714	117700	154840	0	0	0
VAAALDDGSALGRFER	TYMP; TYMP; TYM	P19971; C9JGI3;	TYPH_HUMA	Unmodified	0	1614000	1530100	26078	0	21560	17896	20885	17906
VAAALPGMESTQDR	RAB6A; RAB6A	P20340; F5H3K7	RAB6A_HUM	Oxidation (M)	4885900	5417400	5792300	0	0	0	51596	0	0
VAAAMPVR	SNW1; SNW1	Q13573; G3V3A4	SNW1_HUMA	Oxidation (M)	3815400	1397500	4984900	231070	21472	0	0	0	0
VAADVKEYERENVDTFEASVK	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B_HUM	Unmodified	584100	868120	490170	0	0	0	0	0	0
VAAENALSVAEEQIR	GOLGB1	Q14789	GOGB1_HUM	Unmodified	3339600	1825000	1091600	0	0	0	0	0	0
VAAGAFQGLR	LRG1	P02750	A2GL_HUMA	Unmodified	1834500	906510	1315100	17369	22309	0	0	0	0
VAAGLPPILVHTDAAQALGK	SCLY; SCLY; SCLY;	Q96I15; H7C277;	SCLY_HUMA	Unmodified	5740600	4198100	4014000	0	0	0	0	0	0
VAAGLQIKNSLTSK	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Deamidation (N)	1112200	926490	725530	0	0	0	0	0	0
VAAGLQIKNSLTSKDPDIKAQYQQR	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Deamidation (N)	2489000	2710200	3338900	0	0	0	0	0	0
VAALQNLVK	KPNB1; KPNB1	Q14974; J3KTM9	IMB1_HUMA	Unmodified	6422500	5473000	5606800	24575	81711	33101	0	0	0
VAAMREAGTALPDQYQEDASDMKDMSKYK	SIKE1	Q9BRV8	SIKE1_HUMA	2 Oxidation (M);3	1233200	0	1502000	0	0	0	551340	0	353840
VAAMSVAQR	DHX15	O43143	DHX15_HUM	Oxidation (M)	0	9347600	1248500	0	63545	429160	0	0	0
VAAPDVVVPTLDTVR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	3269100	3639600	1574100	32183	25997	0	0	0	0
VAAPNLSR	CXADR	P78310	CXAR_HUMA	Unmodified	2176700	2363400	1988600	1028800	974510	746220	410650	306660	75045
VAAQSPPSPASAEALLPALPLR	CEP170B; CEP170B	Q9Y4F5; J3KQR7	C170B_HUM	Unmodified	840160	639090	705140	0	0	0	0	0	0
VAASALNR	TP53I3; TP53I3	Q53FA7; H7BZH6	QORX_HUM	Unmodified	9385500	8628200	8332700	95420	32722	102370	0	0	0
VAASNIVQMK	PSMB2	P49721	PSB2_HUMA	Oxidation (M)	400650	550640	540080	0	0	0	0	0	0
VAASNIVQMKDDHDKMFK	PSMB2	P49721	PSB2_HUMA	2 Oxidation (M)	1583200	2384700	795910	51551	0	57184	0	0	0
VAASTQPLGR	RNF214	Q8ND24	RN214_HUM	Unmodified	0	981780	776960	0	0	0	0	0	0
VAASVLNPYVK	ATP5PO; ATP5PO; N	P48047; A0A494	ATPO_HUMA	Unmodified	5381700	5083100	6225100	186610	173310	188160	0	0	0
VAASVLNPYVKR	ATP5PO; ATP5PO; N	P48047; A0A494	ATPO_HUMA	Unmodified	1796900	1651700	1669800	61359	40391	57509	0	0	0
VAATRQEIFQEQLAAVPEFR	COPG1	Q9Y678	COPG1_HUM	Unmodified	330010	397440	0	0	0	0	0	0	0
VAAVEMLK	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D_HUM	Oxidation (M)	1305300	1133500	1345400	0	59174	0	0	0	0
VAAVGPYIQSSTMPR	TP53BP2	Q13625	ASPP2_HUM	Oxidation (M)	520160	534300	556200	16756	19853	16100	0	0	0
VADEMDVMLGQEVGYSIR	DHX15	O43143	DHX15_HUM	2 Oxidation (M)	0	1646300	1580800	0	0	0	0	0	0
VADFTEQYNEQYGAVR	RBM4B	Q9BQ04	RBM4B_HUM	Unmodified	1780200	1812700	1455200	37719	0	43574	0	0	0
VADGLPLAASMQEDEQSGR	SEC22B	O75396	SC22B_HUM	Oxidation (M)	10114000	6109400	7919800	340350	387420	288530	0	0	0
VADGLPLAASMQEDEQSGRDLQQYQSQAK	SEC22B	O75396	SC22B_HUM	Oxidation (M)	10542000	12959000	8006200	549040	582030	453140	0	0	0
VADGMVFGALLPCEECSGQLVFK	PARP1; PARP1; PAR	P09874; A0A7I2V	PARP1_HUM	Oxidation (M)	729650	264240	299440	0	0	0	0	0	0
VADIGLAAWGR	AHCY	P23526	SAHH_HUMA	Unmodified	0	0	0	274720	251700	273380	30265	41884	42680
VADIGLAAWGRK	AHCY	P23526	SAHH_HUMA	Unmodified	3412200	2443200	2993500	73583	52257	69316	0	0	0
VADISGDTQK	SND1; SND1	Q7KZF4; H7C597	SND1_HUMA	Unmodified	1795800	4208900	4253200	362780	569470	571280	0	0	0
VADKIQLINNMLDK	PGK1	P00558	PGK1_HUMA	Oxidation (M);Dea	365230	0	519870	0	0	0	0	0	0
VADLADFVK	MIPEP	Q99797	MIPEP_HUM	Unmodified	3099800	2279300	1837100	117530	126060	89664	0	0	0
VADLTEQYNEQYGAVR	RBM4	Q9BWF3	RBM4_HUM	Unmodified	4570700	3888600	3795300	430570	416220	455660	20581	0	0
VADLTEQYNEQYGAVR	RBM4	Q9BWF3	RBM4_HUM	Deamidation (N)	0	614950	440520	0	0	0	0	0	0
VADMALHYANKYNIMLVR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	2 Oxidation (M)	2643600	2944300	1584600	0	0	0	0	0	0
VADMALHYANKYNIMLVR	CCT8; CCT8	P50990; H7C4C8	TCPQ_HUMA	2 Oxidation (M);De	1810700	707300	1174200	0	0	0	0	0	0
VADNAQQQYVR	DDX54	Q8TDD1	DDX54_HUM	Unmodified	792910	608370	1055100	0	0	0	0	0	0
VADNAQQQYVR	DDX54	Q8TDD1	DDX54_HUM	Deamidation (N)	421590	402660	504550	0	0	0	0	0	0
VADNSFDAK	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Deamidation (N)	758280	1215200	879620	46312	86963	58961	0	0	0
VADNSFDAK	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
VADPAYLPTQQDVLR	GNAQ; GNAQ	P50148; B1AM21	GNAQ_HUM	Unmodified	0	1334200	0	216180	0	181600	0	0	0
VADPDHDHTGFLTEYVATR	MAPK1	P28482	MK01_HUMA	Unmodified	8016500	3667600	8664900	34486	80768	49305	19000	0	0
VADPTPFHIQAEVTMK	CBR1; CBR1; CBR1	P16152; E9PQ63;	CBR1_HUMA	Oxidation (M)	7693200	5373900	6821300	117980	87361	127710	0	0	0
VADREPSFLAAQGNGYAPDGPPGVR	ARHGAP39	Q9C0H5	RHG39_HUM	Deamidation (N)	338450	394270	390270	0	0	0	0	0	0
VADRLGLELGK	PRPS2; PRPS2; PRP	P11908; D3YTJ7;	PRPS2_HUM	Unmodified	995050	1272100	985790	0	0	0	0	0	0
VADRLGLELGKVVTK	PRPS2; PRPS2; PRP	P11908; D3YTJ7;	PRPS2_HUM	Unmodified	1338700	0	1243800	0	0	0	0	0	0
VADSSKGPDEAKIK	SYNCRIP; SYNCRIP	O60506; A0A7I2V	HNRPQ_HUM	2 Methyl (KR)	0	0	0	0	0	0	89765	0	0
VADVVTPLWTVPYAEQLER	TRMT2A; TRMT2A	Q8IZ69; F2Z2W7	TRM2A_HUM	Unmodified	231520	299790	348550	0	0	0	0	0	0
VADWTGATYQDKR	EIF3D; EIF3D; EIF3D	O15371; B0QYA8	EIF3D_HUM	Unmodified	0	2103800	1090700	94023	170200	0	0	0	0
VADYIPQLAK	GLS; GLS	O94925; H7BZD1	GLSK_HUMA	Unmodified	3130800	3724100	3265300	36325	38794	33923	0	0	0
VAEAHENIIHGSGATGK	CRYZ	Q08257	QOR_HUMA	Unmodified	4206900	4629600	3189800	181780	156720	192880	0	0	12435
VAEAHVPNFIFDEFR	WASHC5; WASHC5	Q12768; E7EQI7	WASC5_HUM	Unmodified	1389600	862360	1148300	0	0	0	0	0	0
VAEEHAPSIVFIDEIDAIGTK	PSMC1	P62191	PRS4_HUMA	Unmodified	3955300	3125900	3638100	0	0	0	0	0	0
VAEEHAPSIVFIDEIDAIGTKR	PSMC1	P62191	PRS4_HUMA	Unmodified	1689400	1610200	1764200	0	0	0	0	0	0
VAEELALEQAK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Unmodified	2934800	2122300	2120000	182680	142620	156540	0	0	0
VAEELALEQAKK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19_HUM	Unmodified	1739600	1516900	2226400	94480	96109	106000	0	0	0
VAEELILR	SYNPO2; SYNPO2	Q9UMS6; H0Y9Y	SYNP2_HUM	Unmodified	1356500	852150	947980	191150	136390	146330	99317	89360	95706
VAEELVAAAR	PPM1F; PPM1F	P49593; B5MCT7	PPM1F_HUM	Unmodified	1110500	1568200	590240	0	0	107820	25626	34856	19619
VAEEMTFFPKEER	TOR1A	O14656	TOR1A_HUM	Oxidation (M)	2682900	2892300	2224400	180220	174030	0	0	0	0
VAEEMTFFPRDEK	TOR1B	O14657	TOR1B_HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
VAEFHTELER	PSMD8; PSMD8; PSI	P48556; K7EJC1;	PSMD8_HUM	Unmodified	1430300	1507000	1130800	0	0	0	0	0	0
VAEGQTLDLK	HSPG2	P98160	PGBM_HUM	Unmodified	1512800	1341700	1355900	621170	795950	463590	17588	0	13783
VAEITGVVETAK	RTF1	Q92541	RTF1_HUMA	Unmodified	2100500	0	1817300	0	0	0	0	0	0
VAEKEGWPLDIR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON_HUM	Unmodified	1223600	810650	583520	21730	34649	27308	0	0	0
VAELEKINAEFLR	RABEP1; RABEP1	Q15276; I3L2B8	RABE1_HUM	Unmodified	786050	588070	403040	0	0	0	0	0	0
VAELLLAK	C9orf64	Q5T6V5	QSPP_HUMA	Unmodified	6668900	6204800	5008500	44599	47781	54218	10124	0	0
VAELSSDDFHLDR	GLG1; GLG1	Q92896; H3BM42	GSLG1_HUM	Unmodified	1712800	0	0	33397	0	0	0	0	0
VAELYLPLLSIAR	DOCK6; DOCK6	Q96HP0; K7ESB7	DOCK6_HUM	Unmodified	352340	195430	272150	0	0	0	0	0	0
VAEMIREEGYDSVFSVVR	CMAS	Q8NFW8	NEUA_HUMA	Oxidation (M)	1249400	0	0	0	0	0	0	0	0
VAEQTPLSALYLASLIK	ALDH1B1	P30837	AL1B1_HUM	Unmodified	356870	60247	183660	0	0	0	0	0	0
VAEQTPLTALYVANLIK	ALDH2; N/A	P05091; F8VP50	ALDH2_HUM	Unmodified	144940	140620	260010	0	0	0	0	0	0
VAEQVLNAVNK	SCPEP1	Q9HB40	RISC_HUMA	Unmodified	941550	653030	755090	0	0	0	0	0	0
VAEQVLNAVNKGLYR	SCPEP1	Q9HB40	RISC_HUMA	Unmodified	530870	520790	544500	0	0	0	0	0	0
VAEVAPEERENVAVAK	SDE2	Q6IQ49	SDE2_HUMA	Unmodified	994220	1164300	1013400	0	100860	70036	0	0	0
VAEVEGEQVDNK	LETM1	O95202	LETM1_HUM	Unmodified	421670	543590	498610	0	0	0	0	0	0
VAEVLNDPENMEK	KLC1; KLC1; KLC1;	Q07866; G3V5R9	KLC1_HUMA	Oxidation (M)	0	1270800	1663300	0	0	0	0	0	0
VAEWPWLSGTIR	KDM3A; KDM3A; K	Q9Y4C1; C9J7Q7	KDM3A_HUM	Unmodified	0	587610	0	0	0	0	0	0	0
VAFDELVR	GMDS	O60547	GMDS_HUM	Unmodified	7135300	8474500	7002000	302870	331000	313630	0	21375	27122
VAFDFAAR	ACAD8; ACAD8	Q9UKU7; E9PLS2	ACAD8_HUM	Unmodified	1654800	1827800	8765700	27688	61636	54906	0	0	0
VAFDPEQKPLHGVLK	RRP1B	Q14684	RRP1B_HUM	Unmodified	2313800	2108500	1956500	0	0	0	0	0	0
VAFERGEEPGK	DHX9	Q08211	DHX9_HUMA	Unmodified	6237100	6407600	6186800	258230	205680	174500	0	0	18378
VAFERGEEPGKSCGYSVR	DHX9	Q08211	DHX9_HUMA	Unmodified	1366800	1395000	1347200	0	0	0	0	0	0
VAFITGGGTGLGK	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR_HUMA	Unmodified	2016700	1644700	1742900	88493	100160	89632	0	0	0
VAFTLLEK	YKT6; YKT6; YKT6;	O15498; A0A7I2V	YKT6_HUMA	Unmodified	279180	184380	0	0	0	0	0	0	0
VAFVNFR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15_HUM	Unmodified	820530	756110	647440	17591	25726	16381	0	0	0
VAGAQIQGAK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM_HUM	Unmodified	4742800	3976300	5282700	97953	79781	68330	0	0	0
VAGEDMLVWR	LEMD2; LEMD2	Q8NC56; H0Y9B7	LEMD2_HUM	Oxidation (M)	1045500	0	0	62171	64105	66107	0	0	0
VAGEGALELVLEAAGAPTSTAAPEAGEDEGPPSPGKTEPS	DNLZ	Q5SXM8	DNLZ_HUMA	Unmodified	406160	247420	618510	0	0	0	0	0	0
VAGFDLDGTLITTR	PNKP; PNKP; PNKP;	Q96T60; M0QYI1	PNKP_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VAGGAAPSKPASAK	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Unmodified	251410	400290	330550	17961	21649	0	0	0	0
VAGGPQMIQLSLDGKR	SELENBP1	Q13228	SBP1_HUMA	Oxidation (M)	1194700	959850	3000200	359310	300460	324620	0	0	0
VAGHPNIVINNAAGNFISPTER	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR_HUMA	Deamidation (N)	1835200	2728700	3747100	61965	0	30883	0	0	0
VAGHPNIVINNAAGNFISPTER	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR_HUMA	Unmodified	1696900	651380	1580300	31261	0	0	0	0	0
VAGHPNIVINNAAGNFISPTER	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR_HUMA	3 Deamidation (N)	488040	0	1348900	0	0	0	0	0	0
VAGHPNIVINNAAGNFISPTER	DECR1; DECR1; DEI	Q16698; E5RFV2;	DECR_HUMA	2 Deamidation (N)	0	1245500	732810	0	0	0	0	0	0
VAGHSLGYGFVNYVTAK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1_HUM	Deamidation (N)	4706500	724670	2399300	0	0	0	0	0	0

VAGHSLGYGFVNYVTAK	ELAVL1; ELAVL1	Q15717; M0QZR5	ELAV1	HUM	Unmodified	3176400	2886900	2577600	0	0	0	186410	0	0
VAGIESHSELQISR	NUMA1; NUMA1	Q14980; A0A087	NUMA1	HUM	Unmodified	3588800	3698400	3919300	101530	0	0	16565	0	19117
VAGLETISTATGR	TM7SF2; TM7SF2; T	O76062; H0YEN6	ERG24	HUM	Unmodified	0	0	962700	78214	0	146650	0	0	0
VAGLLTQK	IGF2R; IGF2R	P11717; A0A7I2V	MPRI	HUM	Unmodified	1430700	1408400	1502300	0	0	0	0	0	0
VAGMDVELTVEER	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUM	Oxidation (M)	35303000	23449000	26028000	639930	452740	528690	0	0	0
VAGMLGLR	MECP2; MECP2; ME	P51608; A0A6Q8	MECP2	HUM	Acetyl (Protein N-t	428820	284210	0	27291	0	30208	0	7971.7	0
VAGMLQRPDQLDKVEQYR	EXOC3; EXOC3; EX	O60645; D6RBR9	EXOC3	HUM	Oxidation (M)	1770600	1860400	2038100	0	0	0	0	0	0
VAGMLQSFQGK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Oxidation (M)	379570	463340	591300	0	0	0	0	0	0
VAGPNGYAILLAVPGSSDSR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15	HUM	Deamidation (N)	1789800	840020	0	0	0	0	0	0	0
VAGQDGSVVQFK	SUMO3; SUMO2; SU	P55854; P61956; (	SUMO3	HUM	Unmodified	29893000	31242000	34748000	1019300	950230	997530	0	0	0
VAGSVTELIQAAEAMK	TLN1	Q9Y490	TLN1	HUM	Oxidation (M)	3385800	2516000	2456500	16986	0	0	13320	0	0
VAGTGEGGLEEMVEELNSGK	DBNL; DBNL; DBNL	Q9UJU6; B4DDD	DBNL	HUM	Oxidation (M);Deai	692070	476680	385340	21514	0	0	0	0	0
VAGTGEGGLEEMVEELNSGKVMYAFCRVK	DBNL; DBNL; DBNL	Q9UJU6; B4DDD	DBNL	HUM	Oxidation (M);2 M	1706900	1226500	1645300	0	0	0	0	0	0
VAGVVAPTLPR	RECQL	P46063	RECQ1	HUM	Unmodified	2244900	2285800	2312500	0	0	0	0	0	0
VAHEPVAPPEDKESESEAK	CDS2	O95674	CDS2	HUM	Unmodified	1348100	1024000	297540	89946	0	0	0	0	0
VAHILNISPPLNLNPVWFK	HSDL2	Q6YN16	HSDL2	HUM	Unmodified	254790	207520	291320	0	0	0	0	0	0
VAHMEFCYQELCQLAAER	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2	HUM	Oxidation (M)	0	486310	827140	0	0	0	0	0	0
VAIAALEVLEEENLAENADK	OAT	P04181	OAT	HUM	Unmodified	740490	0	520740	0	0	0	21623	0	0
VAIDASMSIYQFLIAVR	FEN1; FEN1	P39748; F5H1Y3	FEN1	HUM	Oxidation (M)	139080	12267	0	0	0	0	0	0	0
VAIDNTNPDAASR	PNKP; PNKP; PNKP	Q96T60; M0QYH	PNKP	HUM	Unmodified	1633200	1370500	1496000	182660	200450	238530	0	0	0
VAIDNTNPDAASR	PNKP; PNKP; PNKP	Q96T60; M0QYH	PNKP	HUM	Deamidation (N)	391850	504690	621740	0	0	0	0	0	0
VAIEHLDK	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE	HUM	Unmodified	544870	571830	597090	0	0	0	0	0	0
VAIEHLDKISDSVLVDIKDTEPLIQTAK	CCT5; CCT5; CCT5;	P48643; B7ZAR1	TCPE	HUM	Unmodified	1772400	0	831030	0	0	0	0	0	0
VAIEPGAPR	SORD; SORD	Q00796; A0A6B	DHSO	HUM	Unmodified	3186100	3108000	3046100	1590500	2082200	2389600	103520	0	141080
VAIESAVQQK	ARID2; ARID2; ARII	Q68CP9; F8VWP	ARID2	HUM	Unmodified	1239100	1163500	1427100	0	0	0	0	0	0
VAIHEAMEQQTISIAK	MCM5; MCM5	P33992; B1AHB	MCM5	HUM	Oxidation (M)	3326200	3648600	3298100	0	0	0	0	0	0
VAIQLNDTHPALSIPELMR	PYGB	P11216	PYGB	HUM	Oxidation (M);Deai	1623600	1852600	0	0	0	0	0	0	0
VAISNPPQR	SART3; SART3; SAR	Q15020; A0A499	SART3	HUM	Unmodified	6276600	7359600	6160800	148080	497980	255560	0	0	0
VAIVKPGVPMEIVLNK	HYOU1; HYOU1; H	Q9Y4L1; J3QL06;	HYOU1	HUM	Oxidation (M)	4347700	4400600	3223400	0	0	42133	0	0	0
VAIVKPGVPMEIVLNKESR	HYOU1; HYOU1; H	Q9Y4L1; J3QL06;	HYOU1	HUM	Oxidation (M)	0	1331600	1477500	0	97588	0	0	0	0
VAKENNVDAVHPGYGFLSER	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUM	Deamidation (N)	1776800	2360900	1922100	20154	24257	37991	0	0	0
VAKPVVEMDGDEMTR	IDH2; IDH2	P48735; H0YL11	IDHP	HUM	2 Oxidation (M)	3181500	3004400	3050900	0	0	53700	0	0	0
VALAGLLGFGLGK	OCIAD2	Q56VL3	OCAD2	HUM	Unmodified	442610	130540	229760	0	0	0	0	0	0
VALDMTTLTIMR	PSMC6; PSMC6; PS	P62333; A0A087	PRS10	HUM	2 Oxidation (M)	3211800	4031500	3069200	158970	240120	101570	0	0	21786
VALEDGKMFVTPGAGR	DPYSL4	O14531	DPYL4	HUM	Oxidation (M)	6269000	5371300	6628500	0	0	20022	0	0	0
VALIGFPSVGK	DRG2; DRG2; DRG2	P55039; J3QKW7	DRG2	HUM	Unmodified	1382700	0	822630	21640	36575	31224	7487.7	12198	0
VALILQNVDLPN	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Unmodified	842980	595230	523750	9495.8	0	0	9989.8	0	0
VALLDVFR	MCM3; MCM3; MC	P25205; A0A499	MCM3	HUM	Unmodified	10477000	9980700	10283000	0	0	9527.9	0	0	0
VALLDVFREAHAQSIGMNR	MCM3; MCM3; MC	P25205; A0A499	MCM3	HUM	Oxidation (M)	4806400	3106400	3350700	0	0	0	0	0	0
VALLEQLGTTLDMGELR	ZMAT4; ZMAT4	Q9H898; E5RIF5	ZMAT4	HUM	Oxidation (M)	746820	184830	1039200	0	0	0	0	0	0
VALLLLEK	AFG3L2; ANK2; ANI	Q9Y4W6; Q01484	AFG32	HUM	Unmodified	0	608690	0	0	0	0	0	0	0
VALLPPVLK	CARMIL1; CARMIL	Q5VZK9; A0A0U	CARL1	HUM	Unmodified	962600	930560	1458700	89150	119910	93675	0	9995.3	0
VALNVSCANLLDKDIGSK	CPNE3; CPNE3; CPI	O75131; A0A087	CPNE3	HUM	Unmodified	1117800	790900	918980	0	0	0	0	0	0
VALRGEDVPLTEQTVSQVLQSAK	COPZ1; COPZ1; COI	P61923; F8VYK5;	COPZ1	HUM	Unmodified	2645900	2029800	2367600	0	0	0	0	0	0
VALRGEDVPLTEQTVSQVLQSAKEQIK	COPZ1; COPZ1; COI	P61923; F8VYK5;	COPZ1	HUM	Unmodified	3312400	1049300	2552400	0	0	0	0	0	0
VALSAATQK	CCP110	O43303	CP110	HUM	Unmodified	824770	755160	963860	0	0	51350	0	0	0
VALSEPQPER	SRRT; SRRT; SRRT	Q9BXP5; H7C1K(	SRRT	HUM	Unmodified	2865200	5086300	1167600	0	0	0	0	0	0
VALSEPQPERR	SRRT; SRRT; SRRT	Q9BXP5; H7C1K(	SRRT	HUM	Unmodified	13553000	15741000	13028000	429610	418440	470150	0	0	0
VALSNMNVIDRKPYPDDENLVEVK	NPEPPSL1; NPEPPS	A6NEC2; P55786	PSAL	HUM	A Methyl (KR);2 Dea	814280	699050	0	0	0	0	0	0	0
VALSPAGVQNLVK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM	HUM	Deamidation (N)	990740	733360	668710	23905	21891	0	0	0	0
VALSPAGVQNLVK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM	HUM	Unmodified	9349300	10413000	9053100	100180	77615	82359	0	0	0
VALTGLTVAEYFR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB	HUM	Unmodified	1088400	1395900	1912500	32064	24978	11002	38918	19100	25807
VALVYGQMNEPPGAR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB	HUM	Oxidation (M)	20051000	20505000	20544000	693350	703570	801810	0	35967	17444
VALVYGQMNEPPGAR	ATP5F1B; ATP5F1B	P06576; H0YH81	ATPB	HUM	Oxidation (M);Deai	1458900	831470	2935800	0	0	0	0	0	0
VAMANIQPQMLVAGATSIAR	VCL	P18206	VINC	HUM	A 2 Oxidation (M)	1030800	0	1343300	0	0	0	0	12203	0
VAMGAFDK	ACADM; ACADM; A	P11310; Q5T4U5;	ACADM	HUM	Oxidation (M)	0	1979500	3516100	0	0	0	0	0	0
VAMIDETR	IMMT; IMMT; IMM	Q16891; A0A087	MIC60	HUM	Oxidation (M)	0	0	561610	0	0	0	0	0	0
VAMNILNSGR	ACAD9; ACAD9; AC	Q9H845; H0YKZ9	ACAD9	HUM	Oxidation (M);2 De	0	0	0	0	201970	0	0	0	0
VAMQDATAQMAMLQFISSGLSK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	3 Oxidation (M)	6256800	5003400	5347700	96603	92005	51705	0	0	24120
VAMSHFEPNEYIHVDLLEK	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Oxidation (M)	5486200	3471900	3626200	0	0	0	0	0	0
VAMSHFEPNEYIHVDLLEKNINIVR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Oxidation (M)	2983500	2269900	1942500	0	0	0	0	0	0
VAMSHFEPNEYIHVDLLEKNINIVR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Oxidation (M);Deai	886820	0	678380	0	0	0	0	0	0
VANEAEFILSR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUM	Unmodified	5996300	4958000	4657500	424110	378250	437790	47214	100790	0
VANEAEFILSR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUM	Deamidation (N)	530720	1103400	974010	117210	105770	101060	0	0	0
VANILHDDCAFLSAFGDVSKPER	ERP44	Q9BS26	ERP44	HUM	Unmodified	3423500	2510700	5046800	0	0	0	0	0	0
VANPSGNLTETYVQDR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Unmodified	6259200	5325500	5876700	453340	282190	514620	1226700	1189100	1026600
VANPSGNLTETYVQDR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Deamidation (N)	571110	665740	1333900	73263	71823	0	0	21496	30390
VANTSTQTMGPRPAAAAAAATPAVR	PABPC1; PABPC1; P	P11940; A0A087	PABP1	HUM	Oxidation (M);Deai	2761800	3134500	2963800	0	0	0	0	0	0
VANTSTQTMGPRPAAAAAAATPAVR	PABPC1; PABPC1; P	P11940; A0A087	PABP1	HUM	Oxidation (M);2 M	27494000	21972000	24530000	1965000	627200	1962300	154810	339210	560870
VANVELYYR	CLTC; CLTC; CLTC	Q00610; J3KS13;	CLH1	HUM	Unmodified	1392700	0	1295800	0	23337	33518	0	0	0
VANVPNTSLLVNIPQPTPASLK	GATAD2A	Q86YP4	P66A	HUM	Unmodified	489290	486130	454910	0	0	0	0	0	0
VANVPNTSLLVNIPQPTPASLK	GATAD2A	Q86YP4	P66A	HUM	Deamidation (N)	263090	234110	350210	0	0	0	0	0	0
VANVSAAEDSVSQR	DDX56; DDX56; DD	Q9NY93; H7C3E5	DDX56	HUM	Unmodified	1124700	1283700	577850	89696	89291	81985	0	0	0
VANVSLLALYK	RPS23	P62266	RS23	HUM	Unmodified	604130	813350	926650	37766	38996	37884	27004	33521	33894
VAPAEPQEAPDSTAAGGSASKR	TKFC; TKFC; TKFC	Q3LXA3; I3L252;	TKFC	HUM	Unmodified	2401500	1840600	0	391150	329490	331510	0	0	0
VAPAPAAADAEVEQTDAESKDAVPTE	AKAP8; AKAP8	O43823; A0A7P0	AKAP8	HUM	Unmodified	1381000	1625100	1455500	187070	230750	276140	0	0	0
VAPAPAAVVPPTGPGMAPVPTGVFTDIPISNIR	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2	HUM	Oxidation (M)	0	923550	1516900	0	0	0	0	0	0
VAPAPAVVK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUM	Unmodified	3930000	3723300	3579400	222360	186550	186090	0	0	0
VAPAQPSEEGPGR	EIF4B; EIF4B	P23588; E7EX17	IF4B	HUM	Unmodified	2117500	1599700	1191200	0	149070	112420	0	0	0
VAPDEHPILLTEAPLNPK	ACTBL2	Q562R1	ACTBL	HUM	Unmodified	180640000	369490000	1780800	256040	228090	16146000	31602000	41369	35881000
VAPEEHPTLLTEAPLNPK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC	HUM	Unmodified	8675900	9638900	6740800	2602900	2187100	2017600	51453000	45186000	49522000
VAPEEHPTLLTEAPLNPK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC	HUM	Unmodified	0	0	0	0	0	0	1643700	1551000	1574500
VAPEEHPTLLTEAPLNPKANR	ACTC1; ACTA1; AC	P68032; P68133;	ACTC	HUM	Methyl (KR)	0	0	0	0	0	0	514120	448120	427840
VAPEEHPTLLTEAPLNPKANREK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC	HUM	Unmodified	0	0	0	97122	160630	0	2037300	2279100	2192200
VAPEEHPTLLTEAPLNPKANREK	ACTC1; ACTA1; AC	P68032; P68133;	ACTC	HUM	Deamidation (N)	0	0	0	0	0	0	540280	109470	414080
VAPEEHPVLLTEAPLNPK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Unmodified	3890200000	4419800000	4783400000	221340000	163410000	166140000	35068000	33275000	37619000
VAPEEHPVLLTEAPLNPK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Methyl (KR)	11750000	14577000	6150800	153600	202110	200210	0	16810	0
VAPEEHPVLLTEAPLNPK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Deamidation (N)	10934000	7814200	10067000	407060	422490	380690	80202	72507	200440
VAPEEHPVLLTEAPLNPKANR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Unmodified	3015200	11099000	2989200	6497100	5838900	1590700	843670	1019100	815550
VAPEEHPVLLTEAPLNPKANR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Methyl (KR)	50416000	42780000	42520000	1503200	1262000	1266200	291810	306140	251380
VAPEEHPVLLTEAPLNPKANR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Methyl (KR);Deam	2550700	1659600	1279900	0	0	61464	0	0	0
VAPEEHPVLLTEAPLNPKANR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
VAPEEHPVLLTEAPLNPKANR	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Deamidation (N)	0	2600800	2255900	100680	62491	68020	41169	35991	35706
VAPEEHPVLLTEAPLNPKANREK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Unmodified	27165000	26912000	23347000	8706400	9339800	8607300	1588300	1659000	1585700
VAPEEHPVLLTEAPLNPKANREK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Deamidation (N)	23164000	19703000	18658000	1697600	1504900	1601100	293460	388180	150470
VAPEEHPVLLTEAPLNPKANREK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Methyl (KR)	5224700	4533700	3392700	368540	253360	219460	0	0	0
VAPEEHPVLLTEAPLNPKANREK	ACTG1; ACTB; ACT	P63261; P60709;	ACTG	HUM	Methyl (KR);Deam	8674800	4801600	9773900	97664	96708	92970	0	38642	26462
VAPEEHPVLLTEATLNPKANR	POTEF	A5A3E0	POTEF	HUM	2 Deamidation (N)	0	259310	649410	0	0	0	0	0	0
VAPGPSSGSTPGQVPGSSALSSPR	NAV1; NAV1	Q8NEY1; A0A0A	NAV1	HUM	Unmodified	1424700	1107400	1027600	0	0	0	0	0	0
VAPGTATAAAGPVADLFR	REPS2	Q8NFH8	REPS2	HUM	Unmodified	4138600	1256100	0	85966	57696	30701	13557	0	22810
VAPHALSEEEKTTLR	IPO11; IPO11; IPO1	Q9UI26; D6RJB1;	IPO11	HUM	Unmodified	1282400	893800	0	0	0	0	0	0	0
VAPNEKTEPIETK	RSF1; RSF1; RSF1	Q96T23; H0YCN2	RSF1	HUM	Unmodified	341440	759910	355780	0	19114	0	0	0	0
VAPNPTGVDSAMKEEVQR	EGFL7	Q9UHF1	EGFL7	HUM	Oxidation (M)	10502000	11354000	9253100	4712600	4875500	5000500	0	0	0
VAPPGLTQIPQIQK	ATP1B1; ATP1B1	P05026; V9GYR2	ATP1B1	HUM	Unmodified	16730000	11818000	13274000	814930	1245200	768130	51062	16656	0
VAPQNDSFGTQLPPMHQQQR	FUBP1	C9JSZ1	C9JSZ1	HUM	Oxidation (M);Deai	3153800	2452400	2247000	0	0	0	0	0	0
VAPQQDDLDSPQQISISNAEAR	LAMA2; LAMA2; LA	P24043; A0A087	LAMA2	HUM	Unmodified	0	1109500	0	1333600	1066400	1168000	0	47607	0
VAPQQDDLDSPQQISISNAEAR	LAMA2; LAMA2; LA	P24043; A0A087	LAMA2	HUM	Deamidation (N)	0	0	0	336180	256040	334420	16916	0	0
VAPTSAEKVDLVLSGK	GPRIN1	Q7Z2K8	GRIN1	HUM	Unmodified	915170	976270	1135800	0	0	0	0	0	0
VAQATCKL	HMGCL; HMGCL	P35914; H0Y2L7	HMGCL	HUM	Unmodified	450840	399810	500920	100940	102650	0	6498	0	9032.2
VAQDWLK	IMMT; IMMT; IMM	Q16891; A0A087	MIC60	HUM	Unmodified	3224100	2756400	2208300	0	0	0	0	0	0
VAQEKDQLQEQLQALK	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Unmodified	540500	841180	577120	0	0	0	0	0	0
VAQEKDQLQEQLQALKESLK	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Unmodified	1897300	2329700	2695200	0	0	0	0	0	0
VAQEKDQLQEQLQALKESLKVTK	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Unmodified	6982900	3543500	6120700	0	0	0	0	0	0
VAQEKDQLQEQLQALKESLKVTK	NUMA1; NUMA1; N	Q14980; F5H4J1;	NUMA1	HUM	Methyl (KR)	369270	598320	0	0	0	0	0	0	0
VAQETDVRAQIR	RAD50; RAD50; RAI	Q92878; E7EN38;	RAD50	HUM	Unmodified	0	0	748120	89415	98296	97269	0	0	0
VAQGVSGAVQDK	IMPDH2; IMPDH2; II	P12268; A0A7I2V	IMDH2	HUM	Unmodified	415660	419230	386420	0	0	0	0	0	0
VAQILKEPK	ATP5PO; ATP5PO; T	P48047; A0A494	ATPO	HUM	Unmodified	2123400	1863900	1928700	0	0	0	0	0	0
VAQLCDFNPK	CLTB; CLTB	P09497; D6RJD1	CLCB	HUM	Unmodified	740230	790460	401980	64286	108890	0	0	0	0
VAQLEEER	MYH14; SYNC; MYI	Q7Z406; Q9H7C4	MYH14	HUM	Unmodified	2204300	2132100	2420100	30742	0	51081	0	0	0
VAQLEQVYIR	SNRPD3	P62318	SMD3	HUM	Unmodified	20518000	14346000	14520000	312500	346190	297120	0	27388	32882
VAQLEQVYIRGSK	SNRPD3	P62318	SMD3	HUM	Unmodified	968450	1238200	1152600	0	76544	0	0	0	0
VAQPGPLEPEEPR	DDRGK1; DDRGK1	Q96HY6; A0A0A	DDRGK	HUM	Unmodified	5893000	4582900	3463400	392430	474910	565730	34265	29950	0
VAQPKEVYQQQQYGSGGR	HNRNPAB; HNRNP	Q99729; D6R9P3;	ROAA	HUM	Unmodified	441090	991990	725610	0	58828	65385	0	0	0
VAQPKEVYQQQQYGSGGR	HNRNPAB; HNRNP	Q99729; D6R9P3;	ROAA	HUM	Methyl (KR)	822740	817790	779260	0	0	0	0	0	0
VAQPTITDNKDGTVTVR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUM	Unmodified	22119000	17103000	14046000	2241800	2323700	2924000	3737300	3458400	4044200
VAQPTITDNKDGTVTVR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUM	Methyl (KR)	701230	691110	582020	144260	132880	0	176460	134660	197390
VAQPTITDNKDGTVTVR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUM	Deamidation (N)	0	858060	723460	246440	133120	96196	606580	379770	181010
VAQTEFDR	SH3GLB2; SH3GLB2	Q9NR46; B7ZC39	SHLB2	HUM	Unmodified	807960	1094100	0	284440	251040	237830	0	0	0
VAQTEFDRQAEVTR	SH3GLB2; SH3GLB2	Q9NR46; B7ZC39	SHLB2	HUM	Unmodified	0	624150	949770	0	0	0	0	0	0
VAQVAEITYGQK	ERLIN2; ERLIN2; ER	O94905; E5RHW4	ERLN2	HUM	Unmodified	876010	610360	0	0	0	0	0	0	0
VAQYVVR	CHD4; CHD3; CHD5	Q14839; Q12873;	CHD4	HUM	Unmodified	2429200	1741700	1955800	44866	60910	69018	0	0	0
VARDPAEGTPLEAAGTRAPAPGLVSR	SORBS1	S4R303	S4R303	HUM	Unmodified	0	0	0	0	0	0	564020	395500	466460

VARPLPAEEPER	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1	HUN	Unmodified	3637400	4490100	3703300	0	135840	108570	0	0	0
VARVEQTETPEMMEAR	MSH6; MSH6; MSH6	P52701; A0A494(	MSH6	HUM	2 Oxidation (M)	1058400	901100	987460	0	0	0	0	0	0
VASAAAKAALEEFSR	SMARCC1	Q92922	SMRC1	HUM	Unmodified	0	756320	540820	0	0	0	0	0	0
VASALPGMENVQEK	RAB6B	Q9NRW1	RAB6B	HUM	Oxidation (M)	1392600	980840	1720300	0	0	0	0	0	0
VASEAPLEHKPQVEASSPR	NEK9; NEK9; NEK9	Q8TD19; A0A7I2I	NEK9	HUM	Unmodified	1351300	1031500	1284000	0	0	122920	0	0	0
VASENLRQELTSQAER	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	803710	943740	888570	0	0	0	0	0	0
VASFSIPGSSSR	ITPR3	Q14573	ITPR3	HUM	Unmodified	1074900	1540000	1391500	88908	118390	102940	0	0	0
VASGPSPGEGISPQSAQAPQAPGDNHVVPVLR	MVP	Q14764	MVP	HUM	Unmodified	0	0	0	353850	263840	76810	48810	0	72190
VASGPSPGEGISPQSAQAPQAPGDNHVVPVLR	MVP	Q14764	MVP	HUM	Deamidation (N)	753000	0	507610	386680	114330	285930	156070	493340	343550
VASIETGLAAAAAK	PHF2; PHF8; PHF2; I	O75151; Q9UPP1	PHF2	HUM	Unmodified	3152000	3579200	3091500	67732	77213	66041	0	0	0
VASLDYLGTVAAR	NIPBL; NIPBL	Q6KC79; A0A590	NIPBL	HUM	Unmodified	1091700	1542400	1587500	0	0	0	0	0	0
VASLEESEGNKQDLK	CKAP4	Q07065	CKAP4	HUM	Unmodified	553340	554380	639040	79822	73913	0	0	0	0
VASLEESEGNKQDLK	CKAP4	Q07065	CKAP4	HUM	Deamidation (N)	698820	0	690520	0	0	0	0	0	0
VASQGEVVR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUM	Unmodified	2501200	2544200	3028100	43323	121740	49434	0	0	0
VASQKGMSVYGLGR	CNN3	Q15417	CNN3	HUM	Oxidation (M)	328140	394520	234010	0	62832	96093	21358	0	0
VASSPVMVSNPATR	HCFC1; HCFC1	P51610; A6NEM2	HCFC1	HUM	Oxidation (M)	3985400	4166100	3484100	438840	407600	611100	0	0	0
VASVLGTMEMGR	AKR7A2; AKR7A2	O43488; H3BLU7	AKR7A2	HUM	2 Oxidation (M)	5764500	6146000	5992500	0	0	0	0	0	0
VASVLGTMEMGRR	AKR7A2; AKR7A2	O43488; H3BLU7	AKR7A2	HUM	2 Oxidation (M)	894490	0	0	0	0	0	0	0	0
VATAQDDITGDGTTSNVLLIGELLK	CCT6A	P40227	TCPZ	HUM	Unmodified	752800	60932	214850	0	0	0	0	0	0
VATPLPDPMASR	DSG2	Q14126	DSG2	HUM	Oxidation (M)	1448900	3356300	2261300	289200	326810	320310	0	0	0
VATPVDWKDGDSVMVLPTIPEEEAK	PRDX6	P30041	PRDX6	HUM	Oxidation (M)	14603000	8933400	8927300	0	0	0	0	0	0
VATQAVEDVLNIAK	NADK2; NADK2; N/	Q4G0N4; A0A0C4	NAKD2	HUM	Unmodified	319340	123200	178370	0	0	0	0	0	0
VATQAVEDVLNIAKR	NADK2; NADK2; N/	Q4G0N4; A0A0C4	NAKD2	HUM	Unmodified	1347000	1595900	2046600	0	0	0	0	0	0
VATWFNQPAR	RPL13; RPL13; RPL	P26373; H3BTH3	RL13	HUM	Unmodified	0	4811800	4834400	0	0	88827	0	0	0
VATYLPAPEGLK	TNC; TNC; TNC; TN	P24821; F5H7V9;	TENA	HUM	Unmodified	901800	1079700	995630	41121	39867	40494	0	138100	0
VATYWSGVGLTGSR	NUDT14	O95848	NUD14	HUM	Unmodified	3632900	3500200	4215700	0	0	0	0	0	0
VAVAAASKPHVEIR	CRABP1; CRABP1	P29762; B5MCB5	RABP1	HUM	Unmodified	9522500	8680000	8894000	0	0	0	0	0	0
VAVAAASKPHVEIRQDGDQFYIK	CRABP1; CRABP1	P29762; B5MCB5	RABP1	HUM	Unmodified	32906000	28132000	22822000	0	0	0	0	0	0
VAVAIPNRPPDAVLTDTTSLNQAALYR	HSD17B4; HSD17B4	P51659; E7EPL9;	DHB4	HUM	Unmodified	4895400	4327200	4015400	0	0	0	0	0	0
VAVATPAKK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL	HUM	Unmodified	10867000	7970500	17022000	229690	370020	105350	0	0	0
VAVEAKNPADLPK	EEF2	P13639	EF2	HUMAN	Unmodified	28001000	19540000	8668200	129750	124660	233490	0	0	0
VAVEAKNPADLPKLVEGLKR	EEF2	P13639	EF2	HUMAN	3 Methyl (KR)	12097000	14407000	10978000	0	0	0	0	0	0
VAVEEVDEEGK	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	3106700	2945900	4440300	0	0	498990	0	0	0
VAVEEVDEEGKFVR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	72704000	68905000	79041000	18782000	15585000	15734000	1705800	1821500	579050
VAVEEVDEEGKFVR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Methyl (KR)	0	3569000	3587500	670460	370770	453120	90229	74990	0
VAVEEVDEEGKFVRLR	LMNA; LMNA; LMN	P02545; A0A6Q8	LMNA	HUM	Unmodified	0	0	0	2257900	2091800	1836300	1027600	877070	849780
VAVEGNVR	ARHGEF16	Q5VV41	ARHGG	HUM	Unmodified	1495800	1769300	2449400	131360	42690	127580	0	0	0
VAVEYLDPSPEVQK	BUB3; BUB3	O43684; J3QT28	BUB3	HUM	Unmodified	1964500	1075000	1311800	45249	40710	42060	0	0	0
VAVEYLDPSPEVQKK	BUB3; BUB3	O43684; J3QT28	BUB3	HUM	Unmodified	1575900	1460900	1236300	109040	0	0	0	0	0
VAVFESNTPTR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2270600	1549200	1873000	187970	204530	151020	85099	83701	0
VAVFTENASEVK	MRPL1; MRPL1	Q9BYD6; H0Y8N	RM01	HUM	Deamidation (N)	699960	1189700	750880	0	0	0	0	0	0
VAVFTENASEVK	MRPL1; MRPL1	Q9BYD6; H0Y8N	RM01	HUM	Unmodified	0	0	1460200	0	0	0	0	0	0
VAVGELTDEDVK	MCM2; MCM2	P49736; H0Y8E6	MCM2	HUM	Unmodified	3551800	3533200	3125200	0	0	0	0	0	0
VAVLENQNK	ATF1; CREB1; CREB	P18846; P16220; I	ATF1	HUM	Unmodified	907780	682390	788530	0	0	0	0	0	0
VAVLGASGGIGQPLSLLLK	MDH2	P40926	MDHM	HUM	Unmodified	3532800	2036000	3427800	0	0	29391	0	0	0
VAVLGASGGIGQPLSLLLKNSPLVSR	MDH2	P40926	MDHM	HUM	Deamidation (N)	431460	0	217110	0	0	0	0	0	0
VAVLSQNR	ACAT2	Q9BWD1	THIC	HUM	Unmodified	1421000	1825200	1033300	196260	0	0	157530	0	0
VAVMPAGSQQVSVR	STBD1	O95210	STBD1	HUM	Oxidation (M)	0	0	0	444500	423380	466540	0	0	0
VAVPLLSSGGQVAVLELR	CORO7; CORO7-PAI	P57737; A0A0A6	CORO7	HUM	Unmodified	839160	483870	664970	0	0	0	0	0	0
VAVPVLVK	NKX2-4; NKX2-1	Q9H2Z4; P43699	NKX24	HUM	Unmodified	1604600	1958100	1513200	0	0	0	0	0	0
VAVQAISADEEAPDYGSGVR	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A	HUM	Unmodified	966630	1461000	1613200	0	0	0	0	0	0
VAVQGDVVR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP	HUM	Unmodified	7406400	8701300	7253200	312570	254760	413300	0	0	0
VAVTPPGLAR	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	5051900	5234900	4438500	256110	331810	303580	0	0	0
VAVTPPGLAREDWK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Unmodified	3234000	2586400	5975000	54273	0	0	0	0	0
VAVVAGYGDVGK	AHCY	P23526	SAHH	HUM	Unmodified	2239800	1591700	1024400	0	0	0	0	0	0
VAVVNQIAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	11255000	11327000	12170000	1484500	1307800	1718100	135150	113720	84522
VAVVNQIAR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Deamidation (N)	954300	866110	861310	78866	138990	96880	0	0	0
VAVVQYSDR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	8756700	9244700	8970400	3192200	3579200	3590300	263150	372350	45781
VAVVQYSGTGQQRPER	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	19109000	22046000	17773000	3341900	2860000	3346500	1763100	354450	1210500
VAVVSSRFEGLSPLQR	BOLA1	Q9Y3E2	BOLA1	HUM	Unmodified	1241300	898470	815550	0	0	0	0	0	0
VAVVTYNNEVTTEIR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	0	486040	492740	63475	44533	0	109870	0	37338
VAYLDPLELSEGK	BCAM; BCAM	P50895; A0A087	BCAM	HUM	Unmodified	13727000	8326100	10216000	325930	335260	282070	34295	32100	23132
VAYMNPIAMAR	FAM133B; FAM133	Q5BKY9; Q8N9E	F133B	HUM	2 Oxidation (M)	516510	549840	401090	0	0	58532	0	24234	0
VAYVSFGPHAGK	RPL14; RPL14	P50914; E7EPB3	RL14	HUM	Unmodified	7773900	8463800	9265800	41556	72218	68325	25511	13110	0
VCDIAAELAR	IPO5; IPO5; IPO5; IP	O00410; E7ETV3	IPO5	HUM	Unmodified	496270	1431800	785410	0	0	0	0	0	0
VCDLRMQEFNAKPQFLQK	N/A	N/A	N/A		Oxidation (M)	3664200	2925200	6197400	40519	0	0	0	0	97510
VCENIPIVLCGNKVDIKDR	RAN; RAN; RAN; R/	P62826; J3KQE5;	RAN	HUM	Deamidation (N)	646430	412370	902090	0	0	0	0	0	0
VCHAHPTLSEAFR	DLD; DLD	P09622; E9PEX6	DLDH	HUM	Unmodified	0	1955600	0	0	0	45356	0	0	0
VCHAHPTLSEAFREANLAASFGK	DLD; DLD	P09622; E9PEX6	DLDH	HUM	Unmodified	1309000	1349300	1292000	0	0	0	0	0	0
VCMVYDLYK	ATIC	P31939	PUR9	HUM	Oxidation (M)	643370	503930	576120	0	0	0	0	0	0
VCNPIITK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Unmodified	8426800	7768700	8494000	223660	338640	317480	21588	0	21573
VCPFAGILENGAVR	APOH; APOH; APOI	P02749; J3QRN2;	APOH	HUM	Deamidation (N)	4421900	6620900	4456000	126920	92125	87662	127080	99083	92040
VCREFTEREQGEVR	UCHL1; UCHL1	P09936; D6RE83	UCHL1	HUM	Unmodified	7290300	7223400	11302000	100330	124440	0	0	0	0
VCTLAIIDPGDSDIIR	RPL30; RPL30; RPL	P62888; A0A0C4	RL30	HUM	Unmodified	10773000	10030000	9419400	73320	0	23813	32034	0	0
VCVETVESGAMTK	IDH2	P48735	IDHP	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
VDAASLKGLNNLAK	DCN; DCN; DCN	P07585; H0YIH3;	PGS2	HUM	Deamidation (N)	0	116450	0	338390	40442	247670	42083	41001	27738
VDAASLKGLNNLAK	DCN; DCN; DCN	P07585; H0YIH3;	PGS2	HUM	Unmodified	218830	0	111650	132140	136580	122300	30081	15737	28203
VDAETVGR	UMPS; UMPS	P11172; E9PFD2	UMPS	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VDAFEER	TPMT	P51580	TPMT	HUM	Unmodified	465530	461990	377910	0	0	0	0	0	0
VDALNDEIR	SMC3	Q9UQE7	SMC3	HUM	Unmodified	1297700	232850	1303900	0	0	0	0	0	0
VDAQFGGIDQR	YARS1; YARS1; YA	P54577; A0A6Q8	SYYC	HUM	Unmodified	1248700	1449000	800480	0	0	0	0	0	0
VDATAETDLAK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	7871800	8308500	9491400	1010500	934640	810160	0	0	0
VDATAETDLAKR	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	4797300	5531700	4120700	292830	281410	285390	0	0	0
VDATAETDLAKR	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Methyl (KR)	763500	0	0	41592	46469	53070	0	0	0
VDATAETDLAKRFDVSGYPTLK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Unmodified	1538600	899040	1252600	0	0	0	0	0	0
VDATEESDLAQQYGVR	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	71658000	85571000	73631000	3730600	3766400	3639800	42653	19993	27460
VDDDSLGEFPVTNSR	DPF2; DPF2	Q92785; J3KMZ8	REQU	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
VDDFLANEAK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUM	Deamidation (N)	839090	1086600	677030	0	0	0	0	0	0
VDDIICDSR	LAMB1; LAMB1; LA	P07942; A0A7I2V	LAMB1	HUM	Unmodified	0	0	0	112860	97574	81054	0	0	0
VDDMLAAGLLEELRDFHR	TRIT1; TRIT1	Q9H3H1; S4R2Z0	MOD5	HUM	Oxidation (M)	185780	132630	225070	0	0	0	0	0	0
VDDPQDVFKPTTSR	SUN1; SUN1; SUN1;	O94901; H0Y742;	SUN1	HUM	Unmodified	1480900	1143000	1157200	0	0	32738	0	0	0
VDDSSEDKTEFTVK	AARS1; AARS1; AA	P49588; A0A6Q8	SYAC	HUM	Unmodified	0	937410	813990	0	77774	88398	0	0	0
VDEAVAVLQAHQAK	PABPC1; PABPC3; F	P11940; Q9H361;	PABP1	HUM	Unmodified	1367600	1707200	2175200	0	0	0	0	0	0
VDEFVTHNLSFDEINK	ADH5	P11766	ADHX	HUM	Unmodified	898620	748250	726360	10885	0	0	22218	0	0
VDEIDAAIQR	MACF1; MACF1; M/	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VDENHSEFTLYESR	ARID1A; ARID1A; A	O14497; H0Y488;	ARI1A	HUM	Deamidation (N)	879150	696460	1139000	0	0	0	0	0	0
VDEVPDGAVKPPTNK	PSIP1	O75475	PSIP1	HUM	Unmodified	0	659720	627550	0	0	0	0	0	0
VDEVPDGAVKPPTNKLPIFFFGTHETAFLGPK	PSIP1	O75475	PSIP1	HUM	Unmodified	1695600	608870	0	0	0	0	0	0	0
VDFNVPMK	PGK1; PGK2	P00558; P07205	PGK1	HUM	Oxidation (M)	3815800	4024400	4426500	0	0	0	0	0	0
VDFNVPMKKNQITNNQR	PGK2	P07205	PGK2	HUM	2 Deamidation (N)	169700	226890	0	0	0	0	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	A Methyl (KR);3 Dea	1634300	1421300	1366300	248260	327230	0	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M)	1596700	543170	588890	0	0	0	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M);Deai	4866800	4298300	3531600	0	0	47969	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M);2 De	6542100	6660700	6684800	115410	92629	109630	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M);3 De	6135200	7977700	6159200	139040	0	115150	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M);Metl	974570	0	336460	0	14821	0	0	0	0
VDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUM	Oxidation (M);Metl	613800	414050	523680	0	26870	0	0	0	0
VDFPQDQLTALTGR	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	8496600	8532500	9097200	104030	79782	35404	0	0	0
VDFSITK	TRA2B; TRA2B; TR	P62995; H7C2L4;	TRA2B	HUM	Unmodified	5014000	5941400	4707000	572730	494610	585990	0	0	0
VDGNSLIVGYVIGTQQATPGPAYSGR	CEACAM6	P40199	CEAM6	HUM	Unmodified	1990500	1062600	1083700	0	0	0	0	0	0
VDGNSLIVGYVIGTQQATPGPAYSGR	CEACAM6	P40199	CEAM6	HUM	Deamidation (N)	2097000	2659900	865270	0	0	0	0	0	0
VDHGAEIITQSPGR	MAP2; MAP2	P11137; A0A669	MTAP2	HUM	Unmodified	683700	0	1488100	10348	0	0	0	0	0
VDHQTGPIVWGEPGTNGQHAFYQLIHQGTK	GPI; GPI; GPI; N/A	P06744; K7EQ48;	G6PI	HUM	Deamidation (N)	12950000	13363000	10073000	0	0	0	0	0	0
VDIDAPDVDVHGPDWHLK	AHNAK	Q09666	AHNK	HUM	Unmodified	1188000	945150	911370	0	0	0	40301	0	0
VDIEAPDVSLEGPEGK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	203540	209480	106130	32567	0	0
VDIEGPDVNIEGPEGK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	1011300	0	360790	327200	316380	0	0	0
VDIETPNLEGTLTGPR	AHNAK	Q09666	AHNK	HUM	Unmodified	889650	794740	390750	148750	0	0	276700	0	161850
VDIGDTIIYLVH	LARS1; LARS1; LAI	Q9P2J5; A0A6BP	SYLC	HUM	Unmodified	0	0	197200	0	0	0	0	0	0
VDIIENQVMDFR	GSTM3; GSTM3	P21266; A0A0A0	GSTM3	HUM	Oxidation (M)	2128700	2200100	1113800	0	0	0	0	0	0
VDIIPGFEFDR	RNPEP; RNPEP	Q9H4A4; A6NKB	AMPB	HUM	Unmodified	1128800	1386300	0	0	0	0	0	0	0
VDILDPALLR	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A	HUM	Unmodified	2919100	3142900	2718000	57823	57210	48911	17598	18134	15790
VDINAPDVDVR	AHNAK	Q09666	AHNK	HUM	Unmodified	0	411180	0	100110	177450	186220	18870	0	25793
VDINAPDVEVQGK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	208410	175820	207000	0	0	0
VDIRPQLLKNALQR	HP1BP3; HP1BP3; H	Q5SSJ5; B0QZK4	HP1B3	HUM	Deamidation (N)	1424300	1911900	2045900	31855	0	0	0	0	0
VDKAAAAAAALQAK	RPL4; RPL4; RPL4	P36578; H3BU31;	RL4	HUM	Unmodified	2333800	2374000	2655800	74472	0	0	0	0	0
VDKGGDPALIRETQEKR	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUM	Unmodified	2121500	1867200	2246300	61224	54923	49004	0	0	0
VDKLDASESLR	CLTC; CLTC; CLTC;	Q00610; K7EJJ5;	CLH1	HUM	Unmodified	5878100	5159600	4408200	90197	0	0	0	0	0
VDKLYAGLKDLAEER	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2	HUM	Unmodified	1730300	1242300	2321800	0	0	0	0	7187.5	0
VDLASETSSR	RBM34; RBM34	P42696; A2A2V2	RBM34	HUM	Unmodified	446540	579750	438590	0	0	0	0	0	0
VDLGGFAGLFDLK	GART	P22102	PUR2	HUM	Unmodified	400730	216240	323130	0	0	0	0	0	0
VDLKGPQTDVK	AHNAK2	Q8IVF2	AHNK2	HUM	Unmodified	25241000	1214100	27600000	3558900	3654900	3758000	116450	0	133500
VDLPLAVLSK	DCTPP1; DCTPP1	Q9H773; H3BSA6	DCTP1	HUM	Unmodified	3007900	2387700	2554500	13141	0	0	0	0	0

VDLPPPEK	N/A	N/A	N/A	Unmodified	0	0	0	2561300	0	2292200	0	0	0
VDLQSLPTR	DPY30	Q9C0I5	DPY30_HUM	Unmodified	13672000	0	1452800	0	0	0	0	0	0
VDLRNYLEGIYNVPVAAVR	MRPL23; MRPL23; M	Q16540; A8MVT4	RM23_HUMA	Unmodified	460940	274840	0	0	0	0	0	0	0
VDLRNYLEGIYNVPVAAVR	MRPL23; MRPL23; M	Q16540; A8MVT4	RM23_HUMA	Deamidation (N)	1037200	659030	628110	0	0	0	0	0	0
VDLVLLGK	ETFB	P38117	ETFB_HUMA	Unmodified	439520	574100	419930	0	0	0	0	11280	0
VDNDENEHQLSLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Unmodified	8342500	10279000	6472300	130420	126870	35582	0	16451	0
VDNDENEHQLSLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Deamidation (N)	29996000	25680000	22957000	47395	0	49144	0	0	0
VDNDENEHQLSLR	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	2 Deamidation (N)	20083000	18233000	17933000	202270	0	156630	0	0	0
VDNEFDQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	0	487480	694420	0	8689.5	0	0	0	0
VDNEFDQR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Deamidation (N)	0	864960	561790	0	0	0	0	0	0
VDNEFDQRLLNTFLER	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	875480	334400	379000	0	0	0	0	0	0
VDNIQAGELTEGIWR	SSRP1	Q08945	SSRP1_HUM	Unmodified	1203900	816890	1878300	0	0	0	0	0	0
VDNLTYR	SRSF8; SRSF2; SRSF	Q9BRL6; Q01130	SRSF8_HUM	Deamidation (N)	1372600	1466000	1640400	16076	26513	28615	0	0	0
VDNLTYR	SRSF8; SRSF2; SRSF	Q9BRL6; Q01130	SRSF8_HUM	Unmodified	13493000	12243000	12797000	536470	455900	561310	9528	0	0
VDPALFPPVPLFTAVPSR	MOGS; MOGS; MOG	Q13724; A0A3B3	MOGS_HUM	Unmodified	273610	307960	255640	0	0	0	0	0	0
VDPEELFTKLDR	STK25; STK25; STK	O00506; E7EM58	STK25_HUM	Unmodified	0	351710	0	0	0	0	0	0	0
VDPVSLGK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	1339900	1657600	1050600	0	0	0	0	0	0
VDQALHTQTDADPAEEYAR	THOP1; THOP1; THO	P52888; K7EL32;	THOP1_HUM	Unmodified	902970	897050	1303100	0	0	0	0	0	0
VDQEIINIMQDR	NDUFB10; NDUFB1(	O96000; H3BPJ9;	NDUBA_HUM	Oxidation (M)	566160	558110	594260	0	0	0	0	0	0
VDQSILTGESVSVIK	ATP2A1; ATP2A2	O14983; P16615	AT2A1_HUM	Unmodified	0	822490	1288200	0	0	0	0	0	0
VDQSILTGESVSVIKHTDPVPDPR	ATP2A2	P16615	AT2A2_HUM	Unmodified	2381500	1632800	2348700	0	0	0	0	0	0
VDREQLVQK	YWHAG	P61981	1433G_HUM	Acetyl (Protein N-t	20338000	19799000	22725000	6006900	4750600	5420300	292000	247400	115570
VDREQLVQKAR	YWHAG	P61981	1433G_HUM	Acetyl (Protein N-t	1330900	1060800	0	11429000	11319000	13278000	8149200	10361000	193660
VDREQLVQKAR	YWHAG	P61981	1433G_HUM	Acetyl (Protein N-t	10075000	16228000	7896600	2462600	2234400	2492200	901600	177470	982640
VDREQLVQKAR	YWHAG	P61981	1433G_HUM	Acetyl (Protein N-t	0	0	0	29725	38358	36877	0	0	0
VDSAATSGYEIGNPPDYR	ACP1; ACP1	P24666; G5E9R5	PPAC_HUM	Unmodified	288920	2802600	1943600	0	0	0	0	0	0
VDSLIPWIK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	663720	1073600	450970	0	0	0	0	0	0
VDSLLENLEK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	1017700	0	0	0	20419	16590	0	0	16021
VDTEDIEK	SAE1; SAE1; SAE1; !	Q9UBE0; B3KNJ4	SAE1_HUMA	Unmodified	3300800	2985800	2930600	0	0	0	0	0	0
VDVDVPDVNIEGPDAK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	123000	120480	58184	0	0	0
VDVEGPDVNIEGPEGK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	120180	118730	143110	0	0	0
VDVEVPDVSLEGPEGK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	415530	144130	109420	14945	0	0
VDVIAGSSK	BRD4	O60885	BRD4_HUM	Unmodified	1342700	1265200	274410	0	0	0	0	0	0
VDVIPVNLPGEHGQR	FN1	P02751	FINC_HUM	Unmodified	5545300	2761200	3211500	78495	77959	62308	0	0	0
VDVIQEPGLSGR	TMX4	Q9H1E5	TMX4_HUM	Unmodified	508040	601220	723380	0	0	0	0	0	0
VDVTEQPGLSGR	TMX1; TMX1	Q9H3N1; G3V448	TMX1_HUM	Unmodified	10766000	9781900	9685700	267200	312000	241130	0	0	0
VDWLTEK	EIF4A3; EIF4A1; EIF	P38919; P60842; (	IF4A3_HUM	Unmodified	771720	0	1058500	0	0	0	0	0	0
VDYSGGFEPFSVLR	MRE11; MRE11	P49959; F8W7U8	MRE11_HUM	Unmodified	1714000	1794800	0	0	0	0	0	0	0
VDYYEVLGVQR	DNAJB6; DNAJB6; D	O75190; A0A0J9	DNJB6_HUM	Unmodified	731530	621360	749450	30290	40268	36794	0	0	0
VEAALDSR	MRPS26	Q9BYN8	RT26_HUMA	Unmodified	2476700	4929500	2555300	0	75580	0	0	0	0
VEADRPGK	RBMXL2; RBMX; RI	O75526; P38159;	RMXL2_HUM	Acetyl (Protein N-t	19396000	18877000	20735000	874470	988610	1155800	0	0	0
VEADRPGKLFIGGLNTETNEK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Acetyl (Protein N-t	16484000	3352900	3143000	80826	0	56505	13456	0	0
VEADRPGKLFIGGLNTETNEK	RBMX; RBMXL1; RI	P38159; Q96E39;	RBMX_HUM	Acetyl (Protein N-t	5992000	6699500	5212000	74138	23468	0	0	0	0
VEADRPGKLFIGGLNTETNEKALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	Acetyl (Protein N-t	0	1891500	1112700	0	0	0	0	0	0
VEADRPGKLFIGGLNTETNEKALEAVFGK	RBMX; RBMX; RBN	P38159; H3BR27;	RBMX_HUM	Acetyl (Protein N-t	0	0	2831000	0	0	0	0	0	0
VEAEGQLQQLR	CROCC	Q5TZA2	CROCC_HUM	Unmodified	1961200	1681900	0	25687	0	21247	0	0	0
VEAIDVEEAK	MCM4; MCM4; MC	P33991; A0A3B3	MCM4_HUM	Unmodified	0	538390	318100	0	0	0	0	621810	0
VEAKFINYVK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Methyl (KR)	2082400	2112700	1920700	32022	0	30948	0	0	0
VEAKPEVQSQPPR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2_HUM	Unmodified	2058100	1575300	4021500	266530	271010	0	0	0	0
VEAKPEVQSQPPRVR	G3BP2; G3BP2; G3B	Q9UN86; A0A7I2	G3BP2_HUM	Unmodified	1342000	1561200	0	597790	517740	0	0	79453	0
VEALQSGGGQER	NFS1	Q9Y697	NFS1_HUMA	Unmodified	731870	0	878300	72386	54827	0	0	0	0
VEALSPGDR	PITRM1; PITRM1; PI	Q5JRX3; A0A7I2	PREP_HUMA	Unmodified	415650	45475	0	0	0	0	0	0	0
VEAQLQELQVK	MYH9	P35579	MYH9_HUM	Unmodified	1325300	1457200	1645400	0	0	48513	0	0	0
VEAQVYILSKEEGGR	TUFM	P49411	EFTU_HUMA	Unmodified	871810	2185400	856960	0	24824	13379	0	0	0
VEAVNMAEGIIHDTETK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Oxidation (M)	4490300	3471800	4491500	0	37385	0	0	0	0
VEAVNMAEGIIHDTETK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Oxidation (M);Deai	1527900	2839700	2505400	0	0	0	0	0	0
VEDVEALDR	PYGB; PYGB	P11216; H0Y4Z6	PYGB_HUMA	Unmodified	3786600	2810600	3217500	29910	123080	146790	0	0	0
VEDVPIPIYFPPESQR	MRPL28; MRPL28; I	Q13084; A2IDC6;	RM28_HUMA	Unmodified	881460	768840	635690	0	0	0	0	0	0
VEEAARGRGGGAEEATEAGRGGR	TXLNG	Q9NUQ3	TXLNG_HUM	Methyl (KR)	1611800	1390200	592370	0	0	0	0	0	0
VEEAEPEEFVVEK	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3_HUMA	Unmodified	3766700	2949300	2463200	162360	114620	127450	0	0	0
VEEAIVAR	RRS1	Q15050	RRS1_HUMA	Unmodified	1840800	1982700	1623900	47217	40851	32053	0	0	0
VEEATVEER	MAP7; MAP7	Q14244; A0A087	MAP7_HUM	Unmodified	1136100	1045600	920670	0	0	428530	0	0	0
VEEEEER	MYH9; CENPQ; MYI	P35579; Q7L2Z9;	MYH9_HUM	Unmodified	1123700	1175400	1058300	43726	74846	0	0	0	0
VEEEIQTLSQVLAAK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52_HUM	Unmodified	11298000	14814000	12174000	0	8409	0	0	10022	0
VEEEIQTLSQVLAAKEK	TPD52; TPD52; TPD	P55327; H0YC44;	TPD52_HUM	Unmodified	1594800	1635400	1769500	0	0	0	0	0	0
VEEEIVTLR	TPD52L2; TPD52L2;	O43399; A0A087	TPD54_HUM	Unmodified	921970	1100700	2284800	0	0	0	0	0	0
VEEELNR	DSP; KIF11; KIF11; !	P15924; P52732; ,	DESP_HUMA	Unmodified	0	671950	624860	0	0	0	0	0	0
VEEISPNIR	SRP68	Q9UHB9	SRP68_HUM	Unmodified	2000600	1751500	1350300	59943	0	50829	0	0	0
VEELERWVYGPGGAR	DCTN3; DCTN3; DC	O75935; X6RCK5	DCTN3_HUM	Unmodified	999530	692340	0	0	0	0	0	0	0
VEEQEPELTSTPNFVVEVIK	C1QBP; C1QBP; C1(	Q07021; E1L3Q7;	C1QBP_HUM	Unmodified	1929100	1793000	2601500	0	27114	0	0	0	0
VEEQEPELTSTPNFVVEVIKNDDGKK	C1QBP; C1QBP; C1(	Q07021; E1L3Q7;	C1QBP_HUM	Deamidation (N)	1361800	1221900	2796300	19618	0	0	0	0	0
VEEVGPYTYR	SCARB2; SCARB2; S	Q14108; A0A1W2	SCRB2_HUM	Unmodified	4238900	3124900	4198800	559790	642560	581130	0	0	0
VEEVGPYTYRELR	SCARB2; SCARB2; S	Q14108; A0A1W2	SCRB2_HUM	Unmodified	316810	409730	387930	148410	140900	0	21701	0	0
VEEVLEEEEEEYVVEK	CBX1; CBX1; CBX1;	P83916; C9JWS9;	CBX1_HUMA	Unmodified	1189600	2669900	2110600	0	0	0	0	0	0
VEEVQKHSVHTLVFR	PLRG1; PLRG1	O43660; B7Z982	PLRG1_HUM	Acetyl (Protein N-t	5670000	6228300	3698100	213660	163970	0	53452	0	0
VEFATLQEALAHALTEK	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	1255900	1189100	1446900	0	0	0	0	0	0
VEFATLQEALAHALTEKEGK	NUMA1; NUMA1	Q14980; A0A087	NUMA1_HUM	Unmodified	651900	719420	654590	0	0	0	0	0	0
VEFLRNELEIPGQYDGR	PRKDC	P78527	PRKDC_HUM	Deamidation (N)	423770	1055700	671020	0	0	0	0	0	0
VEFMDDTSR	RPS28	P62857	RS28_HUMA	Oxidation (M)	13289000	16242000	14773000	874390	838240	752150	0	0	0
VEFMDDTSRSIIR	RPS28	P62857	RS28_HUMA	Oxidation (M)	969750	1048400	950600	0	0	0	9951.6	0	0
VEGAETLAYLIEPDVELQR	ARMC8; ARMC8; AI	Q8IUR7; B7Z637;	ARMC8_HUM	Unmodified	625200	344610	602580	0	0	0	0	0	0
VEGDLKGPEVDLKGPK	AHNAK	Q09666	AHNK_HUM	Unmodified	259510	387010	0	84449	106360	135650	75508	58149	75881
VEGDMQVPDLDIKGPK	AHNAK	Q09666	AHNK_HUM	Oxidation (M)	0	0	0	141420	123670	0	0	0	0
VEGFPTIYFAPSGDKK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Unmodified	1300400	1258700	1417600	22879	23208	17783	0	0	0
VEGGTPLFTLR	DLST; DLST	P36957; Q86SW4	ODO2_HUMA	Unmodified	16683000	16580000	18047000	416800	399140	295650	0	0	0
VEGGTPLFTLRK	DLST; DLST	P36957; Q86SW4	ODO2_HUMA	Unmodified	1494900	2508100	2670500	87514	0	50003	0	0	0
VEGHVGELGDFQVK	MPRIP; MPRIP; MPI	H0Y7E2; A0A494	H0Y7E2_HUM	Unmodified	0	0	0	86990	0	77567	0	0	0
VEGITGKQMESFLKANILGLAAGQR	KIF22; KIF22	Q14807; H3BRB3	KIF22_HUMA	Oxidation (M);Met	184660	0	0	0	0	0	0	0	0
VEGIVHPTTAEIDLKEDIGK	MACROH2A2; MAC	Q9P0M6; A0A7I2	H2AW_HUM	Unmodified	1204000	1011900	1031800	0	0	0	0	0	0
VEGPAFTDAIR	NIBAN2	Q96TA1	NIBA2_HUM	Unmodified	704150	1010400	1014600	33713	32213	34257	0	0	0
VEGPGSLGLEESGSR	PPP1R8; PPP1R8	Q12972; A0A0A0	PP1R8_HUM	Unmodified	760640	1116400	745270	0	79264	88983	0	0	0
VEGPGSLGLEESGSRR	PPP1R8; PPP1R8	Q12972; A0A0A0	PP1R8_HUM	Unmodified	2085400	1602300	1757000	113860	0	119350	22052	32010	0
VEGRPGASLPPLDLQALEK	PC	P11498	PYC_HUMA	Unmodified	2534200	1421900	3542000	0	0	0	0	0	0
VEGSFPVTMLPGDGVGPELMHAVK	IDH3B; IDH3B; IDH3	O43837; A0A087	IDH3B_HUM	2 Oxidation (M)	0	891230	1133700	0	0	0	0	0	0
VEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Unmodified	3891900	2235800	3586200	0	0	0	0	0	0
VEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	Deamidation (N)	2010700	823210	1309800	0	0	0	0	0	0
VEGTEPTTAFNLFVGNLNFNK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUM	2 Deamidation (N)	451690	530140	351940	0	0	0	0	0	0
VEGVVQHGSKPGLFR	INTS7	Q9NVH2	INT7_HUMA	Unmodified	0	299990	0	0	20348	0	0	0	0
VEHGSVALPAIMR	TLN1	Q9Y490	TLN1_HUMA	Oxidation (M)	2080100	2384300	2273800	198670	208610	194830	212470	85643	161730
VEHLEEGPMIEQLSK	MRPL42; MRPL42; I	Q9Y6G3; S4R360	RM42_HUMA	Oxidation (M)	797840	0	608010	0	0	51076	0	0	0
VEHNQSYSQAGITETEWTSGSSK	TMPO	P42167	LAP2B_HUM	Unmodified	579780	0	0	0	0	0	0	0	0
VEHTPDGVK	PYGB	P11216	PYGB_HUMA	Unmodified	377100	0	407960	0	0	0	0	0	0
VEIAGPGFINVHLR	RARS1	P54136	SYRC_HUMA	Unmodified	554570	770810	825470	0	0	0	0	0	0
VEIFYR	LGALS3BP; LGALS3	Q08380; K7ES75;	LG3BP_HUM	Unmodified	7757900	9363800	12619000	0	0	0	0	0	0
VEILANDQGNR	HSPA6; HSPA7	P17066; P48741	HSP76_HUM	Unmodified	7945400	6991100	6869900	196100	237820	186200	0	0	0
VEILTALR	LZIC; LZIC	Q8WZA0; K7ES9(	LZIC_HUMA	Unmodified	0	411710	134020	0	0	0	0	0	0
VEIMPPPPKPK	DBT; DBT; DBT; DB	P11182; A0A7P0	ODB2_HUMA	Oxidation (M)	1267000	1682600	1257500	0	112760	121840	0	0	0
VEITPESILSALSK	RPRD2	Q5VT52	RPRD2_HUM	Unmodified	0	88899	76260	0	0	0	0	0	0
VEITYTPSDGTQK	IDH1	O75874	IDHC_HUMA	Unmodified	936980	527800	907740	81961	0	0	0	0	0
VEKEEAGGGISEEEAAQYDR	SAE1; SAE1; SAE1; !	Q9UBE0; B3KNJ4	SAE1_HUMA	Acetyl (Protein N-t	8293800	12232000	12158000	392260	146840	485760	0	0	0
VEKEEAGGGISEEEAAQYDR	SAE1; SAE1; SAE1; !	Q9UBE0; B3KNJ4	SAE1_HUMA	Unmodified	7478400	8023800	9032500	0	0	0	0	0	0
VEKIPGGIIEDSCVLR	CCT3; CCT3; CCT3;	P49368; E9PQ35;	TCPG_HUMA	Unmodified	3804900	2334900	2653200	35146	38412	37556	18992	0	0
VEKYTISQEAYDQR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB_HUMA	Unmodified	1041800	693370	1394800	0	0	0	0	0	0
VEKYTISQEAYDQRQDTVR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB_HUMA	Unmodified	2119100	725650	2755400	0	0	0	0	0	0
VELDNMPLR	NONO; NONO; NON	Q15233; C9JZL7;	NONO_HUMA	Oxidation (M)	7561600	8685700	7676900	0	0	0	0	0	0
VELKTPLGDTTHTCPR	IGHG3; IGHG3; IGH	P01860; A0A4W9	IGHG3_HUM	Unmodified	424980	741950	435650	66759	104850	89767	0	0	0
VELNKPSDSVGKDVF	EGLN1; N/A	Q9GZT9; A0A590	EGLN1_HUM	Unmodified	686650	787100	804880	0	0	0	0	0	0
VELPGTAVPSVPEDAAPASR	SLC12A2; SLC12A2	P55011; G3XAL9	S12A2_HUM	Unmodified	0	0	0	140570	107890	0	0	27927	0
VELQELNDRFANYIDK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Deamidation (N)	448930	483990	0	0	0	0	0	0	0
VELQELNDRFANYIDKVR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	554470	692500	470510	0	0	0	0	0	0
VELQELNDRFANYIDKVR	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Deamidation (N)	1059700	0	826340	0	0	0	0	0	0
VELSEQQLQLWPSDVDK	CNP	P09543	CN37_HUMA	Unmodified	1870000	1135600	1735900	0	0	0	0	0	0
VELSEQQLQLWPSDVDKLSPTDNLPR	CNP	P09543	CN37_HUMA	Unmodified	1270800	834330	1180200	0	0	0	0	0	0
VELSESR	MCM3; MCM3; MCI	P25205; Q7Z6P5;	MCM3_HUM	Unmodified	1155500	1597500	1714400	24394	0	0	0	0	0
VELSNGEK	SRSF3	P84103	SRSF3_HUM	Deamidation (N)	3538800	3799100	3593200	63859	401420	74897	0	0	0
VELSQLR	RPL35; UQCRFS1P1	P42766; P0C7P4;	RL35_HUMA	Unmodified	2236400	2155700	1089700	0	0	0	0	0	0
VELSTGMPR	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7_HUM	Oxidation (M)	11781000	820930	0	537330	609750	739830	0	0	0
VEMLETER	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Oxidation (M)	5901900	6754300	8334300	300750	90667	238570	0	0	0
VEMLETERGQQEAK	NUMA1; NUMA1; N	Q14980; F5H6Y5;	NUMA1_HUM	Oxidation (M)	6222300	7443000	8838800	340800	475410	410340	0	0	0
VENGQEPVIK	ADAR; ADAR; ADAI	P55265; A0A3B3	DSRAD_HUM	Deamidation (N)	667830	556990	638900	37209	78904	0	0	0	0
VENQENVSNLVIEDTELK	CAP1	Q01518	CAP1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VEPADASGTEKAFEPATGR	ALDH9A1	P49189	AL9A1_HUM	Unmodified	6754700	6315500	5644100	443640	394430	406770	102230	0	0

VEPADASGTEKAFEPATGR	ALDH9A1	P49189	ALY9A1_HUM	Methyl (KR)	1219100	952300	1090200	84239	95152	105670	0	0	0
VEPATPLAVR	RAB3GAP2	Q9H2M9	RBGPR_HUM	Unmodified	786970	784050	695900	64761	64693	59873	0	0	0
VEPAVSSVVNSIQVLTSK	RRBP1; RRBP1	Q9P2E9; A2A2S5	RRBP1_HUM	Unmodified	1487700	1850000	1713500	0	0	0	0	0	0
VEPIPAIGHATLGTASR	FOXK2; FOXK2	Q01167; I3L4U8	FOXK2_HUM	Unmodified	578630	924830	1135900	0	0	0	0	0	0
VEPYSLTAQQSSLIR	UHRF1; UHRF1; UHI	Q96T88; A0A087	UHRF1_HUM	Unmodified	671980	642020	491370	0	0	0	0	0	0
VEQATKPSFESGR	RBMX; RBMX; RBN	P38159; H3BT71;	RBMX_HUM.	Unmodified	34239000	40645000	32598000	2286300	2217400	2482600	75561	98937	77751
VEQFLTIAR	DIDO1	Q9BTC0	DIDO1_HUM.	Unmodified	639590	1672600	669820	0	56125	30928	0	0	0
VEQHVVDGKER	RTCB	Q9Y3I0	RTCB_HUMA	Unmodified	1060800	725400	469740	13657	0	0	0	0	0
VEQIEAGTPGR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1_HUM.	Unmodified	1753900	1461800	1450500	0	0	0	0	0	0
VEQLGAEGNVEESQK	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2_HUM.	Unmodified	2134300	2294600	3094100	0	34020	0	0	0	0
VEQLGAEGNVEESQKVMDEVEK	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2_HUM.	Oxidation (M)	705980	786690	0	0	0	0	0	0	0
VEQLGAEGNVEESQKVMDEVEKAR	LUC7L2; LUC7L2	Q9Y383; A0A0A6	LC7L2_HUM.	Oxidation (M)	1341600	1273800	0	0	0	0	97087	94032	88728
VEQTETPEMMEAR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	2 Oxidation (M)	2529200	3122600	3335300	0	123260	104850	0	0	0
VEQVLSLEPQHELK	VAPB; VAPB	O95292; E5RK64	VAPB_HUMA	Unmodified	8962200	8111300	8371900	239870	325260	194400	0	0	0
VEQVLSLEPQHELKFR	VAPB; VAPB	O95292; E5RK64	VAPB_HUMA	Unmodified	1645400	1710100	1415800	0	0	0	0	0	0
VERADGYEPPVQESV	RPS3A; RPS3A; RPS	P61247; D6R9B6;	RS3A_HUMA	Unmodified	1078600	1510500	1685500	227220	143070	188310	0	0	0
VESDLKGPEVDIEGPEGK	AHNAK	Q09666	AHNK_HUM.	Unmodified	0	0	792580	144590	122610	172690	0	0	0
VESLESLYFTPIPAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1_HUM	Unmodified	3238300	3816800	3554100	15674	0	10721	0	0	0
VESLESQTR	SPAG9; SPAG9	O60271; A0A087	JIP4_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
VESLLVTAISK	DHX15	O43143	DHX15_HUM	Unmodified	2700200	0	2176600	0	0	43780	0	0	0
VESLQEEIAFLK	VIM; VIM; VIM	P08670; B0YJC4;	VIME_HUMA	Unmodified	621310	0	755950	62539	51609	43582	55695	57150	56995
VESPVLPPVLVPR	SMAD1; SMAD5	Q15797; Q99717	SMAD1_HUM	Unmodified	1278100	1243800	988120	58013	0	44772	0	0	0
VESTDVSDLLHQYR	PSMB8; PSMB8; PSI	P28062; Q5JNW7	PSB8_HUMA	Unmodified	887280	942990	1253400	0	0	0	0	0	0
VETAATEAELK	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	1575600	679020	891910	0	0	0	0	0	0
VETGILRPGMVVTFAPVNITTEVK	EEF1A2; EEF1A2	Q05639; A0A2U3	EF1A2_HUM.	Oxidation (M)	15369000	7717100	16030000	0	0	0	0	0	0
VETGVLKPGMVVTFAPVNVTTEVK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM.	Oxidation (M)	216390000	197420000	224760000	207300	128580	134560	177450	56611	73860
VETGVLKPGMVVTFAPVNVTTEVK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM.	Oxidation (M);Met	10525000	4875200	10496000	0	0	0	0	0	0
VETGVLKPGMVVTFAPVNVTTEVK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3_HUM.	Oxidation (M);Deai	7441100	9244600	2543500	0	0	0	0	0	0
VETKMKGNKVNEVLNR	GTPBP4	Q9BZE4	GTPB4_HUM	3 Deamidation (N)	207340	441320	447590	0	0	0	0	0	0
VETPSHPGGVSEEFWER	DHX38; DHX38	Q92620; H3BQT9	PRP16_HUM.	Unmodified	1033500	1119300	1071800	46015	0	0	0	0	0
VETPVLPPVLVPR	SMAD9; SMAD3; SM	O15198; P84022;	SMAD9_HUM	Unmodified	5649500	6600600	5818500	131380	0	96236	40478	0	0
VETSDEEIHDLHQR	EPHX1; EPHX1	P07099; B1AQP8	HYEP_HUMA	Unmodified	1824300	2672200	3080800	0	0	170170	0	0	0
VETTEDLVAK	ETFB	P38117	ETFB_HUMA	Unmodified	2018300	1659900	2241900	58063	67415	49499	0	0	0
VEVDGSIMEGGGQILR	RTCA; RTCA	O00442; A6NIC1	RTCA_HUMA	Oxidation (M)	788490	0	519630	0	0	0	0	0	0
VEVERDNLAEDIMR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Oxidation (M)	7297400	6113700	6500900	903890	1095400	893540	0	0	0
VEVERDNLAEDIMRLR	VIM; VIM	P08670; B0YJC4	VIME_HUMA	Oxidation (M)	7363100	4312600	4677900	0	0	0	0	0	0
VEVGKDQEFTVDTR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	722990	0	1376600	90171	112090	90478	0	0	0
VEVNDRQGFVPAAYVK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM.	Deamidation (N)	1424600	1734900	1692000	26193	134040	0	0	0	0
VEVRPMMYVALTYDHR	DLST	P36957	ODO2_HUMA	2 Oxidation (M)	6697900	6229000	8318400	0	0	198870	0	0	0
VEVTEFEDIK	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM.	Unmodified	56628000	48243000	44760000	1439700	1369300	1554800	0	0	0
VEVTEFEDIKSGYR	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM.	Unmodified	7083800	6698100	9793400	81685	54736	29920	0	0	0
VEVTEFEDIKSGYR	SETSIP; SET; SET	P0DME0; Q01105	SETLP_HUM.	Methyl (KR)	4663900	3319700	3512100	36318	0	0	0	0	0
VEVVEER	MVP	Q14764	MVP_HUMA	Unmodified	1550800	792740	1449700	109600	114430	115250	0	0	0
VEVYPVELLLVR	USP11; USP11	P51784; G5E9A6	UBP11_HUM.	Unmodified	1310300	896550	1158900	0	0	0	0	0	0
VEWSAFLEAADNLR	TRMT112; TRMT11	Q9UI30; F5GX77;	TR112_HUM.	Unmodified	203010	0	252150	0	0	0	0	0	0
VEYHFLSPYVSPK	TFRC; TFRC	P02786; G3V0E5	TFR1_HUMA	Unmodified	0	0	12147000	0	0	0	0	0	0
VEYSEEELK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	2339500	2838100	2393500	0	0	0	0	0	0
VEYSEEELKTHISK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	8387400	12650000	9549900	0	0	106540	0	0	0
VEYSEEELKTHISKGTLGK	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	2934900	1453700	2638900	0	0	60842	0	0	0
VEYTLGEESEAPGQR	EIF4G1; EIF4G1; EIF	Q04637; E7EX73;	IF4G1_HUMA	Unmodified	2901100	3498200	2846700	97330	45099	180860	0	0	0
VFAAEALLK	CBX8	Q9HC52	CBX8_HUMA	Unmodified	1677600	1412600	2022000	35407	40482	10764	0	0	0
VFAFDATARPPGYEFELK	IRF2BP1	Q8IU81	IF2BP1_HUM	Unmodified	621930	667870	706500	0	0	0	0	0	0
VFAFDAVSKPGMDYELK	IRF2BPL	Q9H1B7	IF2BPL_HUM	Oxidation (M)	6907100	4937000	5713400	0	0	0	0	0	0
VFAIPPSFASIFLTK	IGHM	P01871	IGHM_HUMA	Unmodified	83545	0	77643	0	0	0	0	0	0
VFASLPQVER	WDR1; WDR1	O75083; D6RD66	WDR1_HUM	Unmodified	7746500	8759900	8384800	224090	223240	244870	0	29544	34706
VFDFAGEEVR	CFDP1	Q9UEE9	CFDP1_HUM	Unmodified	1096300	956350	1180400	0	0	33137	0	0	0
VFDFTFSPEEMK	AKR1A1	P14550	AK1A1_HUM	Oxidation (M)	1206400	1118600	704450	0	0	0	0	0	0
VFDKDGNGFVSAAELR	CALML3	P27482	CALL3_HUM	Deamidation (N)	76731000	62815000	64258000	61027	104860	124200	0	15067	0
VFDKDGNGYISAAELR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Deamidation (N)	542280000	553270000	471200000	6331000	6579400	6736100	622390	322750	578900
VFDKDGNGYISAAELR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Methyl (KR);Deam	14949000	14120000	12811000	91041	146290	144910	0	11741	17666
VFDKDGNGYISAAELR	CALM2; CALM3; C/	P0DP24; P0DP25;	CALM2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
VFDMLNR	EIF4A1; EIF4A2; EIF	P60842; Q14240;	IF4A1_HUMA	Oxidation (M)	3872400	6117400	6776300	36535	0	36420	0	0	0
VFDPVPVGVTK	DHX9	Q08211	DHX9_HUMA	Unmodified	6706900	6222400	7810400	132300	144640	115540	0	0	0
VFDYFEGATSQR	SCAF8; SCAF8	Q9UPN6; A0A0A	SCAF8_HUM.	Unmodified	1613700	1942000	2100700	70789	0	57394	0	0	0
VFEFGGPEVLK	CRYZ; CRYZ; CRYZ	O08257; A6NP24;	QOR_HUMA	Unmodified	11978000	13243000	12489000	456320	457100	478210	0	59007	53962
VFEIRNTEDLTEEWLR	GMFB; GMFB	P60983; G3V4P8	GMFB_HUM.	Deamidation (N)	171690	69830	132560	0	0	0	0	0	0
VFEISPFEPWITR	NDUFA9; N/A; NDU	Q16795; A0A3B3	NDUA9_HUM	Unmodified	265500	239150	269430	0	0	0	0	0	0
VFEVMLATDR	PCMT1; PCMT1; PC	P22061; F8WAV5	PIMT_HUMA	Oxidation (M)	0	991700	0	0	0	0	0	0	0
VFEVSLADLQNDEVAFR	RPS3A; RPS3A; RPS	P61247; D6RED7;	RS3A_HUMA	Unmodified	1253500	89839	794800	0	0	0	0	0	0
VFEVSLADLQNDEVAFR	RPS3A; RPS3A; RPS	P61247; D6RED7;	RS3A_HUMA	Deamidation (N)	308790	54882	272160	0	0	0	0	0	0
VFEVSLADLQNDEVAFRK	RPS3A; RPS3A; RPS	P61247; D6RED7;	RS3A_HUMA	Unmodified	12116000	3637400	8837200	0	0	0	0	0	0
VFEVSLADLQNDEVAFRK	RPS3A; RPS3A; RPS	P61247; D6RED7;	RS3A_HUMA	Deamidation (N)	951080	355320	302340	0	0	0	0	0	0
VFFINEEAK	PLEKHA5	Q9HAU0	PKHA5_HUM	Deamidation (N)	575160	548750	0	0	20532	26242	30878	39661	0
VFFYNPTTR	TCERG1; TCERG1; (	O14776; A0A7P0	TCRG1_HUM	Unmodified	2994100	3236200	4383800	117840	99566	105910	0	11768	0
VFGAPEVLENLEVK	NUP210	Q8TEM1	PO210_HUM	Unmodified	911740	713820	660210	0	0	0	0	0	0
VFGAPNVVEDEIDQYLSK	NPLOC4; NPLOC4; !	Q8TAT6; A0A0D9	NPL4_HUMA	Unmodified	907160	368580	230800	0	0	0	0	0	0
VFGFPVHYTDVSNMSR	DNMT3A; DNMT3A	Q9Y6K1; A0A0C4	DNM3A_HUM	Oxidation (M)	1995100	1371700	1302800	0	0	0	0	0	0
VFGFPVHYTDVSNMSR	DNMT3A; DNMT3A	Q9Y6K1; A0A0C4	DNM3A_HUM	Oxidation (M);Deai	465640	455290	515480	0	0	0	0	0	0
VFGFSLITNK	PNP	P00491	PNPH_HUMA	Unmodified	578040	361500	663560	0	0	0	0	0	0
VFGLQGVSR	CRMP1; CRMP1	Q14194; E9PD68	DPYL1_HUM	Unmodified	1766500	1357400	1066800	0	0	0	0	0	0
VFGNEIKLEKPK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	1439400	1618900	1640600	0	0	0	0	0	0
VFGNEIKLEKPK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Deamidation (N)	3586200	3458000	2974300	0	0	0	0	0	0
VFGPGIEGK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	975780	564750	1217300	83527	90570	177890	0	0	0
VFGPGIEGKDVFR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1940600	3027900	2420400	199570	41588	242000	48161	65067	0
VFGPGVER	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	4524800	3821200	3309900	847240	893040	1027500	179080	0	186670
VFGTYTDVTPR	STARD7; STARD7	Q9NQZ5; C9JTD3	STAR7_HUM	Unmodified	469210	0	716620	0	0	0	0	0	0
VFHYFESNSEPTTWASIIR	PTK2; PTK2; PTK2;	Q05397; E5RG54;	FAK1_HUMA	Deamidation (N)	0	625460	681510	0	0	0	0	0	0
VFIDKQTNLSK	CELF1; CELF2; CEL	Q92879; O95319;	CELF1_HUM	Unmodified	4727600	0	0	0	57859	73916	0	0	0
VFIDQINR	POGLUT1; POGLUT	Q8NBL1; B4DVA	PGLT1_HUM	Unmodified	789930	1720600	705350	28562	0	25630	0	0	0
VFIGNLNTALVK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Unmodified	24604000	18368000	19266000	290310	244080	29499	31052	26282	0
VFIGNLNTALVKK	RALY; RALY; RALY	Q9UKM9; Q5QP	RALY_HUMA	Unmodified	4558400	4566200	4148400	0	94274	61004	0	8541.3	0
VFIGNLNTLVVK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Deamidation (N)	40241000	24774000	30761000	58476	32580	28320	9003.4	0	0
VFIGNLNTLVVK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	40448000	31909000	39393000	438210	376190	337460	200160	241070	257010
VFIGNLNTLVVK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	2 Deamidation (N)	2142300	1835100	2023900	0	0	0	0	0	0
VFIGNLNTLVVKK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Deamidation (N)	8886600	8390000	7006600	45145	80345	0	0	0	0
VFIGNLNTLVVKK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Unmodified	14694000	15781000	17349000	155890	179680	107230	0	0	0
VFIGNLNTLVVKK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Methyl (KR)	1645700	1134200	1021100	0	0	0	0	0	0
VFIGNLNTLVVKK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	2 Deamidation (N)	379430	321810	529540	0	0	0	0	0	0
VFIGNLNTLVVKK	HNRNPCL3; HNRNP	B7ZW38; P0DMR	HNRC3_HUM	Methyl (KR);Deam	283670	181690	191870	0	0	0	0	0	0
VFIPHGLIMDR	HPRT1	P00492	HPRT_HUMA	Oxidation (M)	8598500	7861600	7068800	75449	52830	61013	0	0	0
VFIPHGLIMDRTER	HPRT1	P00492	HPRT_HUMA	Oxidation (M)	4803600	6706500	5650300	0	66142	87261	8894.7	0	0
VFITDDFHDMMPK	HSP90B1; HSP90B1;	P14625; A0A7P0	ENPL_HUMA	2 Oxidation (M)	21985000	25013000	21896000	367900	350700	378260	0	49103	0
VFKQPSKPEIVSK	ALCAM; ALCAM	Q13740; F5GXJ9	CD166_HUM	Unmodified	1244700	1832400	1110300	0	0	50940	0	0	0
VFKTDMELEVLR	PEPD; PEPD; PEPD;	P12955; A0A494	PEPD_HUMA	Oxidation (M)	4441700	2432700	4214200	240610	186290	184120	0	0	0
VFLADQPIEAPEEPRR	UTRN; UTRN	P46939; Q5T097	UTRN_HUM	Unmodified	1846800	1111100	0	212180	0	217660	51637	50069	65909
VFLDPNILSDDGTVALR	PREP; PREP	P48147; A0A499	PPCE_HUMA	Unmodified	715820	479440	745470	0	0	0	0	0	0
VFLENVIR	H4C1	P62805	H4_HUMAN	Unmodified	63014000	81880000	61896000	474190	483110	586120	113510	440140	366010
VFLENVIR	H4C1	P62805	H4_HUMAN	Deamidation (N)	4463300	5047100	4823500	0	0	0	5818.7	0	0
VFLENVIRDAVTYTEHAK	H4C1	P62805	H4_HUMAN	Deamidation (N)	2440200	2929300	2788300	0	0	0	0	0	0
VFLENVIRDAVTYTEHAK	H4C1	P62805	H4_HUMAN	Unmodified	185130000	169030000	184700000	99392	0	121490	0	70653	0
VFLENVIRDAVTYTEHAKR	H4C1	P62805	H4_HUMAN	Unmodified	16217000	13877000	18293000	0	0	0	0	0	0
VFLKNEK	PPA1; PPA1	Q15181; Q5SQT6	IPYR_HUMA	Unmodified	635590	620520	583110	0	0	0	0	0	0
VFLQLRPEYR	FASTKD5	Q7L8L6	FAKD5_HUM	Unmodified	2534600	2703100	1831700	24470	16880	13901	0	0	0
VFLQYLPAIR	GNA13	Q14344	GNA13_HUM	Unmodified	3841100	4805100	3846300	0	12522	15269	0	0	0
VFLWGSFR	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1_HUMA	Unmodified	459730	431060	595450	0	0	0	0	0	0
VFMQEFK	ARPC2	O15144	ARPC2_HUM	Oxidation (M)	1852900	1894900	2078600	0	0	0	0	0	0
VFNAGDDPSVPLHVLSR	PPP1R3D	O95685	PPR3D_HUM	Unmodified	532880	522880	466930	17363	0	0	0	0	0
VFNAGDDPSVPLHVLSR	PPP1R3D	O95685	PPR3D_HUM	Deamidation (N)	435350	523970	0	0	0	0	0	0	0
VFNDMKVR	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1_HUMA	Oxidation (M);Deai	1261800	996570	992760	0	0	0	0	0	0
VFNETPNPR	COPG1	Q9Y678	COPG1_HUM	Deamidation (N)	859190	810310	1044400	96935	85884	0	0	0	0
VFNETPNPR	COPG1	Q9Y678	COPG1_HUM	Unmodified	1046700	868570	735250	373710	364290	543540	45942	45208	0
VFNLYPR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Unmodified	21925000	17566000	21849000	641110	471000	635750	100910	0	0
VFNLYPR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Deamidation (N)	1953100	2452900	1789500	36654	41011	41467	0	16339	0
VFNPYTEFK	EFHD2	Q96C19	EFHD2_HUM	Unmodified	1374000	1422400	1627500	0	14857	0	0	0	0
VFNPYTEFKEFSR	EFHD2	Q96C19	EFHD2_HUM	Unmodified	23559000	28194000	23035000	83548	42708	36056	21104	16558	18825
VFNPYTEFKEFSRK	EFHD2	Q96C19	EFHD2_HUM	Unmodified	1557700	1974900	1452700	0	0	0	0	0	0
VFNTGGAPR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	3241800	2914500	624460	118760	0	161940	16061	12325	26725
VFNTGGAPR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Deamidation (N)	2572200	2179900	2331500	74526	118140	74731	0	0	0
VFNTTPDDLDLHVIYDVSHNIAK	RTCB	Q9Y3I0	RTCB_HUMA	Unmodified	2107600	1215300	2356100	0	0	0	0	0	0
VFNTTPDDLDLHVIYDVSHNIAK	RTCB	Q9Y3I0	RTCB_HUMA	Deamidation (N)	2467600	839430	1861700	0	0	0	0	0	0
VFNVFCLYGNVEK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL_HUM	Unmodified	742610	533250	1035400	0	0	0	0	0	0
VFNYNTLER	COPB2; COPB2; COI	P35606; D6RCL6;	COPB2_HUM	Unmodified	1213900	762780	1541000	125480	97044	93891	0	0	25093

VFPEPTESGDEGEELGLPLLSTR	WRAP53; WRAP53	Q9BUR4; E9PMG	TCAB1	HUM	Unmodified	766380	0	0	0	0	0	0	0	0
VFPGSTTEDYNLIVIER	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUM	Unmodified	19619000	16285000	19114000	40343	0	22766	35930	0	0
VFPLSCAVQQYAWGK	MPI; MPI; MPI; MPI;	P34949; H3BQX0	MPI	HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
VFPPAMPPPATHLSPALAPVPR	TRIM9	Q9C026	TRIM9	HUM.	Oxidation (M)	1574000	920330	1109400	0	0	0	0	0	0
VFQDRQYQIDAAIVR	CUL4B; CUL4A; CU	Q13620; Q13619;	CUL4B	HUM	Unmodified	297740	728990	431350	0	0	0	0	0	0
VFQFLNAK	RPL24; RPL24; RPL	P83731; C9JNW5;	RL24	HUM	Unmodified	1724200	1537200	1543400	50743	49334	44503	0	0	0
VFQGTDEQLNDLYHNHQR	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Unmodified	0	963950	0	0	48681	57947	0	0	0
VFQSLPHENKPLTLSNYQTNK	CSTB; CSTB	P04080; A0A1W2	CYTB	HUM/	Unmodified	17000000	16510000	13565000	154010	146280	167550	0	0	0
VFQSLPHENKPLTLSNYQTNK	CSTB; CSTB	P04080; A0A1W2	CYTB	HUM/	Deamidation (N)	11381000	8257100	9660200	76108	0	65533	0	0	0
VFQTEAELQEVISDLQSK	RAD50; N/A; RAD50	Q92878; A0A1W2	RAD50	HUM	Unmodified	1427600	304460	664840	0	0	0	0	0	0
VFQVEYAMK	PSMA3; PSMA3; PSI	P25788; G3V5N4;	PSA3	HUMA	Oxidation (M)	5383200	4622900	6550300	265600	175790	297500	0	0	0
VFSATLGLVDIVK	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	615770	498550	286520	0	0	0	0	0	0
VFSAYIK	ARPC1A; ARPC1A;	Q92747; E9PF58;	ARC1A	HUM	Unmodified	2127100	1296000	1133200	23304	57537	31688	0	0	0
VFSDEVQQQAQLSTIR	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L	HUM	Unmodified	2223300	1046300	3336400	0	0	0	0	12665	0
VFSGLVSTGLK	EEF2	P13639	EF2	HUMAN	Unmodified	13032000	11782000	11188000	33286	35212	37033	23405	0	0
VFSGLVSTGLKVR	EEF2	P13639	EF2	HUMAN	Unmodified	650940	955100	661200	0	0	0	0	0	0
VFSIGPVFR	DARS1	P14868	SYDC	HUM	Unmodified	5204700	5408400	4402000	86633	90783	95674	6496.8	20256	0
VFSLSSEFK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUM	Unmodified	808400	717310	771180	0	0	0	0	0	0
VFSNGADLSGVTEEAPLK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT	HUM	Deamidation (N)	3332500	3589900	3596100	0	0	0	0	0	0
VFSNGADLSGVTEEAPLKLSK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT	HUM	Deamidation (N)	17427000	13070000	12792000	0	0	0	0	0	0
VFSNGADLSGVTEEAPLKLSK	SERPINA1; SERPIN/	P01009; A0A024F	A1AT	HUMA	Methyl (KR);Deam	799250	855810	677060	0	0	0	0	0	0
VFSVAITPDHLEPR	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	8911900	9354700	9471600	522310	563390	480360	308600	596850	553220
VFSWGFGGYGR	RCC2	Q9P258	RCC2	HUMA	Unmodified	11484000	10328000	10582000	67155	0	40919	0	0	0
VFSWLQQEGHLSEEEMAR	GART	P22102	PUR2	HUMA	Oxidation (M)	3942900	4120000	3647600	0	0	0	0	0	0
VFTAGSEER	PTK7; PTK7; PTK7	Q13308; Q86X91;	PTK7	HUMA	Unmodified	1970100	1852700	1798900	0	0	0	0	0	0
VFTGVVTK	CCAR1; CCAR1; CC	Q8IX12; E5H3E1;	CCAR1	HUM	Unmodified	2765300	2266200	2471400	61766	39225	29958	0	0	0
VFTKPVDPDEVPDYVTVIK	ATAD2; ATAD2	Q6PL18; A0A0B4	ATAD2	HUM	Unmodified	1348100	1158500	934510	0	0	0	0	0	0
VFTTQELVQAFTHAPATLEADR	AHSA1; AHSA1; AH	O95433; H0YJ63;	AHSA1	HUM	Unmodified	14389000	13679000	14725000	0	0	0	0	0	0
VFTTQELVQAFTHAPATLEADRGGK	AHSA1; AHSA1; AH	O95433; H0YJ63;	AHSA1	HUM	Unmodified	2256600	1594500	2364900	0	0	0	0	0	0
VFVGGDDFK	lSYNA1	Q9NPH2	INO1	HUM	Unmodified	1428200	2386500	1989600	0	0	0	0	0	0
VFVGGDDFKSGQTK	lSYNA1	Q9NPH2	INO1	HUMA	Unmodified	397730	468620	1792900	0	0	0	0	0	0
VFVHYTGWLLDGTK	FKBP4; FKBP4	Q02790; F5H1U3	FKBP4	HUM	Unmodified	0	282810	289690	0	0	0	0	0	0
VFVMPNGMLK	PSME3; PSME3; PSA	P61289; K7EPX6;	PSME3	HUM	2 Oxidation (M);De	2110700	1748300	0	0	25252	0	0	0	0
VFVQKEILDKFTEEVVK	ALDH9A1	P49189	AL9A1	HUM	Unmodified	7626100	7877500	5686900	0	0	0	0	0	0
VFVQKEILDKFTEEVVKQTQR	ALDH9A1	P49189	AL9A1	HUM	Unmodified	5204500	5143500	5511800	0	0	0	0	0	0
VFVSPLAK	DLAT; DLAT; DLAT	P10515; A0A7P01	ODP2	HUMA	Unmodified	3273000	3322900	3403300	93397	103600	0	0	0	10022
VFYELQHSDKPVGTK	USP7; USP7; USP7;	Q93009; A0A669	UBP7	HUMA	Unmodified	1272200	1359700	1368600	0	0	0	0	0	0
VGAAEEELQK	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	6093600	6316000	6580500	424370	341460	493780	0	0	0
VGAAEEELQKSR	RRBP1; RRBP1; RRI	Q9P2E9; A0A087	RRBP1	HUM	Unmodified	1438300	1196500	1473400	554870	522120	395150	0	0	0
VGAAEIISR	SF3B1	O75533	SF3B1	HUM/	Unmodified	3443800	3507700	3352000	0	0	0	0	0	0
VGAAGPAPGTGSGPLR	HECTD3	Q5T447	HECD3	HUM	Unmodified	765820	0	539800	0	67433	0	0	0	0
VGAGAGAAPFREVDEISPEDDQR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15	HUM	Unmodified	1917200	1398500	1059600	79297	0	93611	0	0	0
VGAGAGAAPFREVDEISPEDDQRANR	RBM15; RBM15; RB	Q96T37; A0A494	RBM15	HUM	Unmodified	1512900	1933600	1796600	61849	63236	67020	0	0	0
VGAGDSQLK	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM	Unmodified	0	2850300	3684200	91843	115200	81703	0	0	0
VGAGDSQLKGVSTFMAEMLETASILR	MSH2; MSH2; MSH2	P43246; A0A2R8	MSH2	HUM/	2 Oxidation (M)	8772200	5908200	6250400	0	0	0	0	0	0
VGAIPANALDDGQWSQGLISAAR	TLN1	Q9Y490	TLN1	HUMA	Deamidation (N)	1724300	0	0	0	0	0	0	0	0
VGAIPANALDDGQWSQGLISAAR	TLN1	Q9Y490	TLN1	HUMA	Unmodified	2530300	3143300	2410700	0	0	0	0	0	0
VGALASLIR	CPQ	Q9Y646	CBPQ	HUMA	Unmodified	2172300	2019800	1997100	74988	72791	68396	24316	0	0
VGALDVPASQFLGSATSPGPR	TSC2; TSC2; TSC2; T	P49815; X5D2U8;	TSC2	HUMA	Unmodified	1222500	1199500	1415200	49987	48194	18496	22360	20749	30949
VGAPGPAGAR	COL1A2; COL1A2	P08123; A0A087	CO1A2	HUM	Unmodified	1341300	1098300	915670	197150	134400	268750	99063	69431	88640
VGASEAALFLKK	EPS15L1; EPS15L1;	Q9UBC2; K7EJR2	EP15R	HUM	Unmodified	757050	750660	1001200	0	12867	26022	0	0	0
VGAVDADKHHSLGGQYGVQGFPTIK	PDIA6	Q15084	PDIA6	HUM	Unmodified	22154000	24771000	26830000	0	202210	185240	0	0	0
VGCVDTR	FBN3; FBN1; FBN3	Q75N90; P35555;	FBN3	HUMA	Unmodified	0	0	0	3216400	636970	0	0	584420	0
VGDAIPAVEVFEGEPGNKVNLAELFK	PRDX5	P30044	PRDX5	HUM	Unmodified	1809500	500990	1528300	0	0	0	0	0	0
VGDAIPAVEVFEGEPGNKVNLAELFK	PRDX5	P30044	PRDX5	HUM	Deamidation (N)	443300	0	274560	0	0	0	0	0	0
VGDDPAVWQLK	TLN1	Q9Y490	TLN1	HUMA	Unmodified	0	0	565900	0	0	0	0	0	0
VGDFGLAR	PTK6; CDK11A; CDI	Q13882; Q9UQ88	PTK6	HUMA	Unmodified	0	0	1582100	73121	105470	126460	0	0	0
VGDFVATDLDTGRPSTTVR	DSG1	Q02413	DSG1	HUMA	Unmodified	0	428210	299730	0	74885	0	0	0	0
VGDHQFLLYSGR	KIAA2013	Q8IYS2	K2013	HUM/	Unmodified	1554600	1473500	1509000	0	66285	52257	0	0	0
VGDKLLEVNGVALQGAEHHEAVEALR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Deamidation (N)	3075500	1990800	2797000	0	0	0	0	0	0
VGDKVLLPEYGGTK	HSPE1; HSPE1; HSP	P61604; B8ZZS4;	CH10	HUMA	Unmodified	22384000	21031000	23973000	552130	591320	591130	52545	0	55726
VGDKVLLPEYGGTK	HSPE1; HSPE1; HSP	P61604; B8ZZS4;	CH10	HUMA	Methyl (KR)	6132400	4697800	5044900	0	0	0	0	0	0
VGDPQELNGITR	FASN; FASN	P49327; A0A0U1I	FAS	HUMAN	Deamidation (N)	7849100	8486600	7981300	850590	794430	785100	24691	0	0
VGDQVTHIR	PTPN6; PTPN6; PTP	P29350; F5GY79;	PTN6	HUMA	Unmodified	1109400	429980	500540	0	0	0	0	0	0
VGDSFYIR	TJP3; TJP1; TJP1; TJ	O95049; Q07157;	ZO3	HUMAN	Unmodified	0	0	0	69368	21503	71883	0	0	0
VGDSTPVSEKPVSAAVDANASESP	GORASP2	Q9H8Y8	GORS2	HUM	Unmodified	1950200	1239400	1310900	192810	109050	180930	0	0	0
VGDTLNLNLR	C4A; C4B; C4B; C4B	P0C0L4; P0C0L5;	CO4A	HUMA	Unmodified	0	1463300	0	96840	98654	123700	0	0	24121
VGDVVEFR	CYB5R1; CYB5R1	Q9UHQ9; H7C0R	NB5R1	HUM	Unmodified	1118600	1373600	934170	0	0	0	0	0	0
VGDVYIPR	SRSF8; SRSF2; SRSF	Q9BRL6; Q01130	SRSF8	HUM/	Unmodified	74112000	58524000	58712000	1962300	1908000	2217200	124830	103970	92354
VGDYGSLSGR	CTSZ; CTSZ; CTSZ;	Q9UBR2; A0A7P(	CATZ	HUMA	Unmodified	5750700	6386600	5030000	0	686900	919210	0	20120	0
VGDYGSLSGREK	CTSZ; CTSZ; CTSZ;	Q9UBR2; A0A7P(	CATZ	HUMA	Unmodified	1727800	1288900	1286200	387340	345700	364120	23591	44740	31382
VGDYVYFENSSSSNPYLIR	MTA1; MTA3; MTA:	Q13330; Q9BTC8	MTA1	HUM/	Deamidation (N)	1613300	2013200	1704400	0	0	0	0	0	0
VGDYVYFENSSSNPYLVR	MTA2	O94776	MTA2	HUM/	Deamidation (N)	1584300	1320100	0	0	0	0	0	0	0
VGDYVYFENSSSNPYLVR	MTA2	O94776	MTA2	HUM/	Unmodified	597690	561320	0	0	0	0	0	0	0
VGEAPGLQQPQPR	ABL2	P42684	ABL2	HUMA	Unmodified	412780	521510	558750	0	41109	51924	0	0	0
VGEATETALTCLVEK	ATP2A2; ATP2A3; A	P16615; Q93084;	AT2A2	HUM	Unmodified	4562800	2257300	2063100	0	0	0	0	0	0
VGEEEECSRQMQTEK	MYH14; MYH14	Q7Z406; M0QY43	MYH14	HUM	Oxidation (M)	128950	120650	0	0	0	0	0	0	0
VGEGFEEETVDGR	CRABP1; CRABP1	P29762; B5MCB5	RABP1	HUM	Unmodified	10094000	9591600	10014000	0	0	0	0	0	0
VGEGFEEETVDGRK	CRABP1; CRABP1	P29762; B5MCB5	RABP1	HUM	Unmodified	14398000	16353000	7708600	0	9920.5	0	0	0	0
VGEGPGVCWLAPEQTAGK	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB	HUM	Unmodified	378460	365140	380930	0	0	0	0	0	0
VGEIEFEGLMR	ADD3	Q9UEY8	ADDG	HUM/	Oxidation (M)	1326800	1656600	1085300	229260	193770	204060	0	0	0
VGEIFSAAGAAFTK	BAP18; RNASEK-C1	Q8IXM2; H0YIS7	BAP18	HUM	Unmodified	1183300	746670	1141000	23288	27737	22722	0	0	0
VGEIVVFR	SEC11A; SEC11A; SI	P67812; H0YNG3	SC11A	HUM	Unmodified	494430	433070	428960	0	0	0	0	0	0
VGELKDDDFEK	MAP2K1	Q02750	MP2K1	HUM	Unmodified	734190	798960	681740	16914	11996	19026	0	0	0
VGELKDDDFEKISELGAGNGGVVFK	MAP2K1	Q02750	MP2K1	HUM	Deamidation (N)	666790	628350	632850	0	0	0	0	0	0
VGELKDDDFER	MAP2K2; N/A	P36507; A0A1B0(	MP2K2	HUM	Unmodified	2936600	2584300	1036000	212480	148470	241540	0	0	0
VGELKDDDFERISELGAGNGGVVTK	MAP2K2	P36507	MP2K2	HUM	Deamidation (N)	876950	1763700	2113900	0	0	0	0	0	0
VGENADSQIK	H1-0	P07305	H10	HUMAN	Deamidation (N)	3034500	0	1857600	161550	0	0	0	35574	0
VGENADSQIK	H1-0	P07305	H10	HUMAN	Unmodified	0	3193400	3461100	0	0	0	0	0	0
VGENVSDVAPTRPR	TUBGCP6; TUBGCP	Q96RT7; E7EQL8	GCP6	HUMA	Unmodified	2032600	1370600	1283400	34684	0	37840	12891	0	0
VGEPKGYPPEDIFNLVGKK	NANS	Q9NR45	SIAS	HUMA	Unmodified	284430	0	0	79394	34374	31539	33329	19602	0
VGEPVALSEEER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	2855200	2410300	2784300	0	111580	292170	0	0	0
VGEPVALSEEERLK	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM	Unmodified	2891100	1846300	2112100	0	0	0	0	0	0
VGEPVALSEEERLKLAQQQAALLMQQEER	SF3B2; SF3B2; SF3B	Q13435; E9PJ04;	SF3B2	HUM/	Oxidation (M)	18945000	12136000	23089000	0	0	0	0	0	0
VGERQPLLGPPESMR	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM/	Oxidation (M)	575230	330580	387460	0	0	0	0	0	0
VGERQPLLGPPESMREHVVAASK	EIF3CL; EIF3C	B5ME19; Q99613	EIFCL	HUM/	Oxidation (M)	6080000	5639100	5245900	245430	165780	0	0	0	0
VGETIIDLENRFLSR	MYOF; MYOF	Q9NZM1; H0YD1	MYOF	HUM	Unmodified	821490	386580	624800	0	0	0	0	0	0
VGEVIVTK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Unmodified	18568000	16100000	16815000	259010	242570	221970	0	0	0
VGEVIVTKDDAMLLK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Oxidation (M)	21637000	16673000	17906000	207400	339900	324410	0	0	29478
VGEVIVTKDDAMLLK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Oxidation (M);Metl	2339800	2707200	2463500	27726	28241	39534	0	0	0
VGEVTYVELLMDAEGK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Oxidation (M)	4873300	4824100	7600100	0	0	0	0	0	0
VGEYSLYIGR	APCS	P02743	SAMP	HUM/	Unmodified	0	401770	476960	40408	32662	0	59401	58365	53231
VGFQYEGTYK	G6PD	P11413	G6PD	HUM	Unmodified	2458100	1653800	1973400	85940	95891	94853	0	0	0
VGFQYQGIMQK	YLPM1; YLPM1	P49750; F8VU51	YLPM1	HUM	Oxidation (M)	1048900	1769600	1485400	0	0	42149	0	0	0
VGFYESDVMGR	A2M	P01023	A2MG	HUM	Oxidation (M)	6752300	5053300	5917900	389740	0	358010	94509	0	125240
VGGAGNKIIQLIEGK	BPNT1; BPNT1	O95861; A6NF51	BPNT1	HUM	Unmodified	792840	661330	669440	0	0	0	0	0	0
VGGAGNKIIQLIEGK	BPNT1; BPNT1	O95861; A6NF51	BPNT1	HUM	Deamidation (N)	151550	257200	0	0	0	0	0	0	0
VGGDVPETNYLFMGDFVDR	PPP4C; PPP4C	P60510; I3L4X0	PP4C	HUMA	Oxidation (M)	391780	362660	516460	0	0	0	0	0	0
VGGDVTSDKLKDWLISR	LARS2; LARS2; LAR	Q15031; A0A494	SYLM	HUM/	Unmodified	777070	378850	464220	0	0	0	0	0	0
VGGEAAAAVEELVSGVR	CDKN2AIPNL	Q96HQ2	C2AIL	HUM/	Unmodified	949230	831100	954530	0	0	0	0	0	0
VGGGWMALDEFLVK	MACF1; DST; DST; T	Q9UPN3; Q03001	MACF1	HUM	Oxidation (M)	31978	34258	47141	0	0	0	0	0	0
VGGLEDQLSVR	CRLF1; CRLF1	O75462; M0QZL6	CRLF1	HUM	Unmodified	488140	2452300	2476200	0	0	0	0	0	0
VGGLLAFAK	POLD1; POLD1; POI	P28340; M0QXE6	DPOD1	HUM	Unmodified	528360	406200	461160	0	0	0	0	0	0
VGGMHETVLTVTGK	SVIL; SVIL; SVIL	O95425; A0A6B9	SVIL	HUMA	Oxidation (M)	909150	621910	400650	23531	0	31699	0	0	0
VGGNIEVLGFNAR	CHD4; CHD5; CHD4	Q14839; Q8TDI0;	CHD4	HUMA	Unmodified	4502700	3890500	3825800	70030	65304	53963	0	0	0
VGGNIEVLGFNAR	CHD4; CHD5; CHD4	Q14839; Q8TDI0;	CHD4	HUMA	Deamidation (N)	2785300	1553900	2390400	0	14068	19570	0	0	0
VGGNIEVLGFNTR	CHD3	Q12873	CHD3	HUMA	Unmodified	883090	0	614590	34827	0	0	0	0	0
VGGSDEEASGIPSR	PPAN; PPAN-P2RY1	Q9NQ55; A0A0A(	SSF1	HUMA	Unmodified	883480	0	799390	0	0	0	0	0	0
VGGSGVNVNAK	AHNAK	Q09666	AHNK	HUM/	Unmodified	0	290370	0	355580	376140	395020	0	0	0
VGGSGVNVNAK	AHNAK	Q09666	AHNK	HUM/	Deamidation (N)	0	0	0	174240	214780	219400	0	0	0
VGGSQPPFQGQR	DIDO1	Q9BTC0	DIDO1	HUM	Unmodified	547330	594910	539640	0	0	0	0	0	0
VGGSSVDLHR	CTNND1; CTNND1;	O60716; A0A669	CTND1	HUM	Unmodified	1019400	772170	1168400	156370	202150	183200	0	0	0
VGGTKPAGGDFGEVLNSAANASATTTEPLPEK	TPD52; TPD52	P55327; E5RK35	TPD52	HUM.	Unmodified	1825600	2000400	2571800	0	0	0	0	0	0
VGGTKPAGGDFGEVLNSAANASATTTEPLPEK	TPD52; TPD52	P55327; E5RK35	TPD52	HUM.	Deamidation (N)	0	0	0	0	0	0	0	0	0
VGGTKPAGGDFGEVLNSAANASATTTEPLPEK	TPD52; TPD52	P55327; E5RK35	TPD52	HUM.	2 Deamidation (N)	2086500	2115000	1780200	0	0	0	0	0	0
VGGTKPAGGDFGEVLNSAANASATTTEPLPEKTQESL	TPD52; TPD52	P55327; E5RK35	TPD52	HUM.	Deamidation (N)	2046000	0	2302100	0	0	0	0	0	0
VGGTKPAGGDFGEVLNSAANASATTTEPLPEKTQESL	TPD52; TPD52	P55327; E5RK35	TPD52	HUM.	Unmodified	1652800	2065800	2607100	0	0	0	0	0	0
VGGTSDVEVNEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Unmodified	12384000	7151700	10403000	310340	688050	571850	0	0	0
VGGTSDVEVNEK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Deamidation (N)	7465400	7774400	7229300	39918	0	0	0	0	0
VGGTSDVEVNEKK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Deamidation (N)	0	5958300	4907000	230930	120020	114090	0	57911	0
VGGTSDVEVNEKKDR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUM	Unmodified	4485600	5585100	7066600	0	0	0	0	0	0
VGGTSDVEVNEKKDR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60	HUMA	Methyl (KR);Deam	9249500	10029000	6755100	0	72738	0	0	0	0

VGGTSDVEVNEKKDR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Deamidation (N)	13077000	11702000	9802600	0	0	287300	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	7126100	6057400	6793600	268610	232660	0	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	2 Deamidation (N)	2958400	4644400	4712100	0	0	0	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Deamidation (N)	14043000	11291000	13851000	59936	257960	137750	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Methyl (KR);2 Dea	1314500	1129200	660400	0	0	0	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Methyl (KR)	1914500	2103500	1190600	48982	37318	0	0	0	0
VGGTSDVEVNEKKDRVTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Methyl (KR);Deam	2418000	2390300	1985900	0	0	0	0	0	0
VGGVFHSTC	AAMDC; AAMDC; A	Q9H7C9; E9PNP3	AAMDC_HUM	Unmodified	399380	685840	0	108760	0	137180	0	0	0
VGGVGPADTHEPLRPEAEPGELERER	MPRIP; MPRIP; MPR	Q6WCQ1; J3KSW	MPRIP_HUM	Unmodified	4025000	4045400	3262600	0	0	70304	0	0	0
VGGVQSLGGTGALR	GOT1	P17174	AATC_HUMA	Unmodified	6177100	5530900	6650600	148000	131740	175720	0	21092	0
VGHSELVGEIIR	ATP6V1A; ATP6V1A	P38606; C9JA17;	VATA_HUMA	Unmodified	6012500	6703100	4834400	243600	426110	111640	0	0	0
VGHVTERTDASSASSFLDSDELER	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	2232000	1100000	0	0	0	0	0	0	0
VGIDTPDIDIHGPEGK	AHNAK	Q09666	AHNK_HUMA	Unmodified	1135400	1447500	1227100	0	383500	321240	213250	156200	184510
VGIGAFPTEQDNEIGELLQTR	ADSS2	P30520	PURA2_HUM	Unmodified	5032100	3001000	3437700	0	0	0	0	0	0
VGIGAFPTEQINEIGGLLQTR	ADSS1	Q8N142	PURA1_HUM	Deamidation (N)	557610	387580	296390	0	0	0	0	0	0
VGIIAWHPTAR	CORO1B; CORO1B;	Q9BR76; F5H390	COR1B_HUM	Unmodified	0	2070300	0	177690	210280	213520	22535	20487	18879
VGIIPPKGCLLYGPPGTGK	PSMC6; PSMC6; PSI	P62333; A0A087	PRS10_HUM	Unmodified	968610	381860	679250	0	16542	0	0	0	0
VGILSWHPTAR	CORO6; CORO6; CO	Q6QEF8; K7ERF4	CORO6_HUM	Unmodified	0	311800	0	0	199540	270600	0	0	0
VGINYQPPTVVPGGDLAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	167900000	139280000	158600000	2227100	2093100	1913000	0	142490	178710
VGINYQPPTVVPGGDLAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Deamidation (N)	74737000	63112000	82312000	512850	464340	533420	41507	36745	50772
VGINYQPPTVVPGGDLAK	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Methyl (KR)	943550	907140	1126400	0	0	0	0	0	0
VGINYQPPTVVPGGDLAKVQR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Unmodified	7250500	7164800	5922200	322520	218320	107190	0	0	41678
VGINYQPPTVVPGGDLAKVQR	TUBA3C; TUBA1A;	P0DPH7; Q71U36	TBA3C_HUM	Methyl (KR)	3285000	3162000	4098800	0	0	0	0	0	0
VGIPKETPALTINR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Unmodified	3972800	3277700	2961100	18090	19097	21197	0	0	0
VGIPKETPALTINR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Methyl (KR)	648010	548780	513280	0	0	0	0	0	0
VGIPKETPALTINR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM_HUMA	Deamidation (N)	740770	883500	842830	0	0	0	0	0	0
VGIPVTDENGNR	SFXN1	Q9H9B4	SFXN1_HUM	Deamidation (N)	3086500	3374800	3932600	0	74404	46678	0	0	0
VGIPVTDENGNR	SFXN1	Q9H9B4	SFXN1_HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
VGIPVTDENGNRLGESANAAK	SFXN1	Q9H9B4	SFXN1_HUM	2 Deamidation (N)	2140200	1832500	0	0	0	0	0	0	0
VGIPVTDENGNRLGESANAAK	SFXN1	Q9H9B4	SFXN1_HUM	Deamidation (N)	1777900	1125800	1821300	0	0	0	0	0	12598
VGIQQGLLSQSTR	POLDIP3; POLDIP3;	Q9BY77; Q6R954	PDIP3_HUM	Unmodified	995340	1448100	1031900	162640	162250	168940	0	0	0
VGIRETPENLAK	FARSB	Q9NSD9	SYFB_HUMA	Unmodified	4506200	4349600	3756100	70922	118070	85622	0	0	0
VGISQENKK	PSME3IP1; PSME3IP	Q9GZU8; H3BP64	PIP30_HUMA	Methyl (KR);Deam	1060900	362650	1494700	0	57358	25004	0	0	0
VGIVAWHPTAR	CORO1C; CORO1C;	Q9ULV4; F8VTT4	COR1C_HUM	Unmodified	8457200	6678000	5788800	0	0	0	0	23943	0
VGKETVQTTEDQILKR	VCL	P18206	VINC_HUMA	Unmodified	9242900	8655100	7821200	57953	56051	68972	0	70894	51451
VGKGEPGAAPLSAPAFSLVFPFLK	GCN1	Q92616	GCN1_HUMA	Unmodified	353600	296680	321220	0	0	0	0	0	0
VGKLNLVDLAGSER	KIF3C; KIF3B; KIF3C	O14782; O15066;	KIF3C_HUM	Unmodified	0	380860	478640	14310	16621	18513	0	0	0
VGKVEHGSVALPAIMR	TLN1	Q9Y490	TLN1_HUMA	Oxidation (M)	6985100	5185700	6387100	629940	662040	713160	268710	406190	448940
VGLADLHPDVFATAPR	MRPL4; MRPL4; MR	Q9BYD3; K7ES61	RM04_HUMA	Unmodified	4123200	3538500	3562600	31762	0	16648	0	0	0
VGLGLGYLELPQINYK	FLII	Q13045	FLII_HUMAN	Unmodified	667070	264310	464530	0	0	0	0	0	0
VGLKAPGIIPR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Unmodified	2639500	2486000	2489900	327740	295530	347900	0	45887	53455
VGLLQREEMQAQLR	SUN2	Q9UH99	SUN2_HUMA	Oxidation (M)	1079500	996430	1261800	25304	0	0	0	0	0
VGLPPLEK	HADHB; HADHB; H	P55084; F5GZQ3;	ECHB_HUMA	Unmodified	7252800	6515600	5742000	281810	344500	361300	0	0	0
VGLQVVAVK	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	8156000	9917500	8016800	101560	91591	101010	34526	26736	0
VGLQVVAVKAPGFGDNR	HSPD1; HSPD1; HSP	P10809; A0A7I2V	CH60_HUMA	Unmodified	885600	1099200	1448500	10468	0	0	0	0	0
VGLTNYAAAYCTGLLLAR	RPL5; RPL5; RPL5;	P46777; Q5T7N0;	RL5_HUMAN	Unmodified	759280	476520	957280	0	0	0	0	0	0
VGMEGGGLGAPLAAYR	NKX2-1; SFTA3	P43699; F8VVG2	NKX21_HUM	Oxidation (M)	26312000	23475000	25736000	159940	111490	92649	0	0	0
VGMIPVPYVEK	CRKL	P46109	CRKL_HUMA	Oxidation (M)	4407200	4047500	4946600	64535	54257	77511	24515	29672	0
VGMIPVPYVEKLVR	CRKL	P46109	CRKL_HUMA	Oxidation (M);Metl	2450600	2374600	1632600	0	18238	0	0	0	0
VGMQIPR	NDUFS1; NDUFS1; N	P28331; F8WDL5	NDUS1_HUM	Oxidation (M)	1888900	1916800	1354800	77416	0	87687	0	0	0
VGMVETNSQDRPVDDVK	PPIL1	Q9Y3C6	PPIL1_HUMA	Oxidation (M)	547080	631120	623380	0	0	0	0	0	0
VGMVETNSQDRPVDDVK	PPIL1	Q9Y3C6	PPIL1_HUMA	Oxidation (M);Deai	5070900	4267600	4132000	345720	360780	429450	0	0	0
VGMVETNSQDRPVDDVKIIK	PPIL1	Q9Y3C6	PPIL1_HUMA	Oxidation (M);Deai	0	1614600	1915900	347210	349870	347510	60280	53466	0
VGNGFEEGTTQGPLINEK	ALDH5A1; ALDH5A	P51649; C9J8Q5;	SSDH_HUMA	Deamidation (N)	0	1050000	0	119540	136860	137030	0	0	0
VGNIEIKDLMVGDEASELR	ACTR2	P61160	ARP2_HUMA	Oxidation (M)	12443000	8938100	8905900	37718	0	0	25578	0	0
VGNLGLATSFFNER	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X_HUM	Unmodified	8858600	2148900	6548500	37974	0	23705	0	0	30111
VGNLGLATSFFNER	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X_HUM	Deamidation (N)	3466100	2997200	3903300	0	0	0	0	0	0
VGNQIFQSR	ESYT2; ESYT2; ESY	A0FGR8; A0A087	ESYT2_HUM	Unmodified	686690	379590	493880	0	0	0	9910.7	0	0
VGNTPETR	SF3B6	Q9Y3B4	SF3B6_HUM	Unmodified	4877900	4325200	4220000	517750	547070	542060	0	0	0
VGPDVVTDPAFLVTR	IMP3	Q9NV31	IMP3_HUMA	Unmodified	5600800	6560700	6018400	23396	0	15501	0	0	21411
VGPGPALMLR	PFAS; PFAS	O15067; H0YGH1	PUR4_HUMA	Oxidation (M)	1534600	1839700	1503500	0	186600	120860	0	0	0
VGPQVPLSEPGFR	EPS8L2; EPS8L2; EP	Q9H6S3; H0YD62	ES8L2_HUM	Unmodified	0	0	0	88443	80251	117130	34313	21815	31129
VGPVAATYPMLNK	ISYNA1; ISYNA1	Q9NPH2; J3QS51	INO1_HUMA	Oxidation (M)	2541200	2105800	1515000	0	56274	47962	0	0	0
VGQALELPLR	NUP210	Q8TEM1	PO210_HUM	Unmodified	15236000	8547400	7233000	850300	881330	342370	57135	28986	25690
VGQAMASTEEK	STT3A	P46977	STT3A_HUM	Oxidation (M)	521570	507380	651530	0	80301	0	0	0	0
VGQASEIAR	CDC5L	Q99459	CDC5L_HUM	Unmodified	7682200	8050500	7483200	499650	540870	584830	0	0	0
VGQAVALR	CTBP1; CTBP1; CTB	Q13363; H0Y9M9	CTBP1_HUM	Unmodified	1544900	1875900	1860100	45916	0	0	0	0	0
VGQAVDVVGQAGKPK	PSMD2	Q13200	PSMD2_HUM	Unmodified	11448000	12777000	14890000	1309400	723370	1018700	0	100260	0
VGQAVDVVGQAGKPK	PSMD2	Q13200	PSMD2_HUM	Methyl (KR)	624400	1000500	788280	0	48865	54273	0	0	0
VGQDPVLR	SSBP1; SSBP1; SSBP	Q04837; C9K0U8	SSBP_HUMA	Unmodified	26875000	31589000	33349000	1952900	1780600	1904600	80100	26844	0
VGQDPVLRQVEGK	SSBP1; SSBP1; SSBP	Q04837; C9K0U8	SSBP_HUMA	Unmodified	305590	223440	240920	48242	73357	49400	0	0	11171
VGQDSELENQDKK	DYNC1I1; DYNC1I1	O14576; A0A0A0	DC1I1_HUM	2 Methyl (KR)	906600	0	744580	0	0	36057	0	0	0
VGQEIEVRPGIVSK	EIF2S3	P41091	IF2G_HUMA	Unmodified	1540700	1157400	1856500	38051	0	0	0	0	0
VGQGLIER	TRAPPC6B; TRAPPC	Q86SZ2; G3V2H7	TPC6B_HUM	Unmodified	610050	619870	682410	0	0	0	0	0	0
VGQISFDLPR	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	0	0	0	161940	114860	149580	0	0	12476
VGQLSEGAIAAIMQK	RPA1	P27694	RFA1_HUMA	Oxidation (M)	4102000	2328000	3563500	0	0	0	0	0	0
VGQTIER	HNRNPM; HNRNPM	P52272; M0QZM1	HNRPM_HUM	Unmodified	78272000	58990000	77855000	9379100	4156600	10682000	292840	397380	268590
VGQTIERMGSGVER	HNRNPM; HNRNPM	P52272; M0QZM1	HNRPM_HUM	Oxidation (M)	1482400	2180400	1585000	3544200	3200000	2691300	0	0	0
VGRASQAEGTASARAQR	FBLN1	B1AHL2	B1AHL2_HUM	Unmodified	0	0	0	143650	0	0	0	0	0
VGRPSNIGQAQPIIDQLAEEAR	PUF60; PUF60; PUF	Q9UHX1; E9PMU	PUF60_HUM	Unmodified	30305000	21248000	28379000	50577	0	35271	0	0	0
VGRPSNIGQAQPIIDQLAEEAR	PUF60; PUF60; PUF	Q9UHX1; E9PMU	PUF60_HUM	Deamidation (N)	0	1312400	1618500	0	0	0	0	0	0
VGSEIERMGLVMDRMGSVER	HNRNPM; HNRNPM	P52272; M0QZM1	HNRPM_HUM	3 Oxidation (M)	0	0	0	603090	912850	649060	199610	0	209030
VGSGDTNNFPYLEK	NANS	Q9NR45	SIAS_HUMA	Deamidation (N)	3414000	3038900	3511100	276370	229370	254200	0	0	0
VGSGDTNNFPYLEKTAK	NANS	Q9NR45	SIAS_HUMA	Methyl (KR);Deam	1407800	1290500	1391300	0	220080	0	0	0	0
VGSGSLDNLGR	PPFIA1; PPFIA1; PPI	Q13136; A0A2R8	LIPA1_HUM	Unmodified	963280	1009700	1298000	62361	0	112050	0	0	0
VGSHPEGGASWLSTAANFLSR	ARMC1	Q9NVT9	ARMC1_HUM	Unmodified	11920000	5592000	6364000	0	0	0	0	0	0
VGSHPEGGASWLSTAANFLSR	ARMC1	Q9NVT9	ARMC1_HUM	Deamidation (N)	2112300	1042900	738400	0	0	0	0	0	0
VGSLDNAHHVPGGNVK	MAP2; MAP2	P11137; A0A669	MTAP2_HUM	Unmodified	459900	0	793380	0	0	0	0	0	0
VGSLDNVGHLPAGGAVK	MAP4; MAP4; MAP	P27816; H7C4C5;	MAP4_HUM	Unmodified	0	1561400	3800600	589200	672910	682650	71148	39603	77186
VGSLPLEK	GPRIN1	Q7Z2K8	GRIN1_HUM	Unmodified	2136100	1667700	1920900	0	0	0	0	0	0
VGSLYPEMSAHER	DCTN1; DCTN1; DC	Q14203; Q6AWB	DCTN1_HUM	Oxidation (M)	0	1964400	0	0	229140	227970	0	0	0
VGSPERPLSDLGLISYR	KAT7; KAT7	O95251; E7EUP3	KAT7_HUMA	Unmodified	576930	0	0	0	0	0	0	0	0
VGSPLTLTDAQTR	PKP4; PKP4	Q99569; A0A0D9	PKP4_HUMA	Unmodified	1035300	1016800	0	834140	997370	754500	0	123700	0
VGSRMFADDLHNLNK	MRPL51; MRPL51;	Q4U2R6; A0A0B4	RM51_HUMA	Oxidation (M);2 M	2171300	298740	1441600	0	0	0	0	0	0
VGSTSENITQK	DDX3X; DDX3Y; DE	O00571; O15523;	DDX3X_HUM	Unmodified	6994500	5224100	5732600	110460	195650	143900	0	0	0
VGTAQLALVAR	EIF2B4; EIF2B4; EIF	Q9UI10; A0A087	EI2BD_HUM	Unmodified	2473200	1643500	2360900	234720	261910	264440	25099	23271	26853
VGTASVLQPVK	QRICH1	Q2TAL8	QRIC1_HUM	Unmodified	946110	1364600	1318200	0	0	0	0	0	0
VGTFFSEVKPAGPTVEQQGEMAR	ALDH18A1	P54886	P5CS_HUMA	Oxidation (M)	15271000	1216500	2572400	0	0	60490	0	0	0
VGTGEPCCDWVGDEGAGHFVK	PGD; PGD; PGD	P52209; K7EPF6;	6PGD_HUMA	Unmodified	3770300	3740400	5011900	0	0	0	0	0	0
VGTGLLADFLGR	AHDC1	Q5TGY3	AHDC1_HUM	Unmodified	425450	361790	398820	0	0	0	6579.3	0	0
VGTHGGTLSSYIVK	WDR70	Q9NW82	WDR70_HUM	Unmodified	1631100	1970800	1510300	0	0	0	23769	0	0
VGTIDDDPEYRK	UPF3B	Q9BZI7	REN3B_HUM	Unmodified	0	549760	0	0	0	0	0	0	0
VGTLQVVR	MROH1; MROH1	Q8NDA8; E9PHY	MROH1_HUM	Unmodified	745770	142260	0	0	0	0	0	0	0
VGTSFSIPVVSDVR	EMG1; EMG1; EMG	Q92979; V9GYP5	NEP1_HUMA	Unmodified	1429000	1371200	1769400	0	0	0	0	0	0
VGTVIGSNK	PARP1; PARP1	P09874; A0A7I2V	PARP1_HUM	Unmodified	2726400	3628500	3291900	0	0	0	0	0	0
VGVAAPPFLGSPVPFGGFR	PYGO2; PYGO2	Q9BRQ0; Q5T171	PYGO2_HUM	Unmodified	1838600	1897400	1922600	0	0	0	0	0	0
VGVASSEELAR	SNAP29	O95721	SNP29_HUM	Unmodified	775100	0	0	0	0	0	0	0	0
VGVDPLIIPTDYWK	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1_HUMA	Unmodified	1690800	1306400	1705000	0	0	0	0	0	0
VGVEVPDVNIEGPEGK	AHNAK	Q09666	AHNK_HUMA	Unmodified	581770	0	882490	185950	150490	195280	43206	57447	55807
VGVGTSFGLPQTR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA_HUMA	Unmodified	4267600	3291800	3914200	191060	174570	264230	24816	0	0
VGVIGFPNVGK	GNL3	Q9BVP2	GNL3_HUMA	Unmodified	1176700	818030	821940	41950	46941	38798	0	0	0
VGVKEELLAVGK	MKI67	P46013	KI67_HUMA	Unmodified	622960	387870	301530	0	0	0	0	0	0
VGVKPVGSDPDFQPELSGAGSR	TXNL1; TXNL1; TXI	O43396; K7EPB7	TXNL1_HUM	Unmodified	5932200	5860000	4811300	446510	125490	0	14659	0	0
VGVKPVGSDPDFQPELSGAGSR	TXNL1; TXNL1; TXI	O43396; K7EPB7	TXNL1_HUM	Acetyl (Protein N-t	0	0	0	0	24678	16311	0	0	0
VGVLAASMEAK	LIMA1; LIMA1; LIM	Q9UHB6; F8VS07	LIMA1_HUM	Oxidation (M)	0	0	0	315030	288230	234180	54358	71143	65308
VGVNGFGR	GAPDH	P04406	G3P_HUMAN	Deamidation (N)	513830000	576110000	489330000	10192000	7299000	13686000	274420	310490	1454800
VGVPTVDLDAQGR	AQR	O60306	AQR_HUMA	Unmodified	3055500	3242200	2707400	137800	138410	148740	0	0	0
VGVSEAGLQHEILR	LRSAM1; LRSAM1;	Q6UWE0; A0A6Q	LRSM1_HUM	Unmodified	717520	608180	1269700	0	0	0	0	0	0
VGVSQQPEDSQQDLPGER	PLXNB2; PLXNB2	O15031; A6QRG9	PLXB2_HUM	Unmodified	943870	774430	669240	124420	51224	0	0	0	0
VGVVQFSDEPR	COL6A3; COL6A3; C	P12111; E1L392;	CO6A3_HUM	Unmodified	0	0	0	0	142980	87681	33786	0	0
VGVVQFSNDVPEFYLK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Deamidation (N)	236300	0	149470	0	0	0	0	0	0
VGVWNVPYISQAYVIR	PLOD3; PLOD3; PLC	O60568; H7C2S8;	PLOD3_HUM	Unmodified	890190	741670	1528500	0	0	0	0	0	0
VGVWNVPYMANVYLIK	PLOD2; PLOD2	O00469; E7ETU9	PLOD2_HUM	Oxidation (M)	1918100	475800	626140	0	0	0	0	0	0
VGWEQLLTSIAR	ACTN3; ACTN3	Q08043; A0A087	ACTN3_HUM	Methyl (KR)	0	0	25925000	0	0	0	0	0	0
VGWEQLLTTIAR	ACTN4; ACTN1; AC	O43707; P12814;	ACTN4_HUM	Unmodified	25574000	23293000	2211500	0	0	0	0	0	0
VGWGAVYTLSEFTHR	NTAQ1; NTAQ1	Q96HA8; E5RIY9	NTAQ1_HUM	Unmodified	1875700	1285200	1985300	0	0	0	0	0	0
VGWIFTDLVSEDTR	NPLOC4	Q8TAT6	NPL4_HUMA	Unmodified	338040	225800	240880	0	0	0	0	0	0
VGYELKDEIER	PRPF31	Q8WWY3	PRP31_HUM	Unmodified	1486900	964410	1281500	134960	87850	124920	0	0	0
VGYREGPTVETK	KIAA1143	Q96AT1	K1143_HUM	Unmodified	0	0	684060	48099	72142	0	0	24715	20333
VGYTPDWIFLLR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2_HUMA	Unmodified	835170	651230	881470	0	0	0	0	0	0
VHAAVQPGSLDSESGIFACAFDQSESR	PLRG1	O43660	PLRG1_HUM	Unmodified	1425800	972540	1045300	0	0	0	0	0	0
VHAENGELVAEGAK	DPYSL5	Q9BPU6	DPYL5_HUM	Deamidation (N)	2023100	1651100	2141600	0	0	0	0	0	0

VHAIPLR	GNB2; GNB1; GNB3	P62879; P62873; I	GBB2_HUMA	Unmodified	508950	0	669290	0	25066	0	0	0	0
VHEELRNLGLYVK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB_HUN	Unmodified	1009100	1026500	884000	35472	22645	0	0	0	0
VHELNEEIGK	LUC7L2; LUC7L; LU	Q9Y383; Q9NQ29	LC7L2_HUM	Unmodified	1352800	1353100	881280	0	0	0	0	0	0
VHELNEEIGKLLAK	LUC7L2; LUC7L; LU	Q9Y383; Q9NQ29	LC7L2_HUM	Unmodified	2205200	2343100	2911700	0	0	0	0	0	0
VHEYNVLLETLSR	LRPAP1; LRPAP1	P30533; A0A3B3I	AMRP_HUM	Unmodified	1606000	349950	750890	0	0	0	0	0	0
VHFEESSKLEDLLR	XRCC6; XRCC6	P12956; B1AHC9	XRCC6_HUM	Unmodified	1532300	1481400	2019100	0	0	0	0	0	0
VHGPGIQSGTTNKPNKFTVETR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Deamidation (N)	5072900	1303100	3184200	0	0	0	262870	233550	233430
VHGPGIQSGTTNKPNKFTVETR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	0	487170	885010	0	0	0	71829	88733	0
VHGSLGDTPRSEETLPK	EHMT2; EHMT2; EH	Q96KQ7; A2ABF	EHMT2_HUM	Unmodified	724440	542720	632820	0	0	0	0	0	0
VHIDIGADGR	HNRNPH3	P31942	HNRH3_HUM	Unmodified	15156000	10117000	15706000	269030	263860	331420	0	0	0
VHIEIGPDGR	HNRNPH1; HNRNPI	P31943; P55795; I	HNRH1_HUM	Unmodified	11617000	10131000	11900000	545220	565510	485420	0	18262	0
VHIGQVIMSIR	RPL10; RPL10L; RPI	P27635; Q96L21;	RL10_HUMA	Oxidation (M)	910440	785100	2057000	0	0	0	0	0	0
VHLDKAQQNNVEHKVETFSGVVYK	RPS7; RPS7	P62081; A0A2R8	RS7_HUMAN	Deamidation (N)	929960	1139000	573000	0	0	0	0	0	0
VHLDKAQQNNVEHKVETFSGVVYKK	RPS7; RPS7	P62081; A0A2R8	RS7_HUMAN	Deamidation (N)	929230	1393600	943420	0	0	0	0	0	0
VHLTPYTVDSPICDFLELQR	CCAR2; CCAR2	Q8N163; E5RHJ4	CCAR2_HUM	Unmodified	1337900	405680	1031100	0	0	0	0	0	0
VHLVGIDIFTGK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14;	IF5A1_HUM	Unmodified	5897000	6340600	4240200	15138	30372	39880	34907	25654	50958
VHLVGIDIFTGKK	EIF5A; EIF5AL1; EIF	P63241; Q6IS14;	IF5A1_HUM	Unmodified	578100	1314600	605140	0	0	0	0	0	0
VHMEVMPLFAGYLPLPDVR	TRAPPC10; N/A	P48553; A0A096I	TPC10_HUM	2 Oxidation (M)	940830	1051400	972940	0	0	0	0	0	0
VHPVSTMIK	LDHA	P00338	LDHA_HUMA	Oxidation (M)	6469800	6999200	8532900	0	0	0	0	0	0
VHQILEGSNEVMR	ACAD8	Q9UKU7	ACAD8_HUM	Oxidation (M)	1036200	1137000	1033400	0	0	0	0	0	0
VHQVTPQTHFIS	PITHD1; PITHD1	Q9GZP4; X6R8S9	PITH1_HUM	Unmodified	2651100	1182900	2394400	0	0	0	0	19935	0
VHSAVITVPAYFNDSQR	HSPA2	P54652	HSP72_HUM	Deamidation (N)	0	828570	888010	0	0	0	0	0	0
VHSFPTLK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	3902700	3385600	3627500	246550	342610	269850	0	0	0
VHSPSGALEECYVTEIDQDKYAVR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	2451500	2234200	3662900	0	0	0	94318	0	65292
VHTVMTLEQQDMVCYTAQTLVR	ILF2; ILF2	Q12905; B4DY09	ILF2_HUMAN	2 Oxidation (M)	2612900	2342400	1356400	0	49440	0	0	0	26934
VHVGDEDFVHLR	CSTB; CSTB	P04080; A0A1W2	CYTB_HUMA	Unmodified	12289000	10324000	12827000	103800	114450	78836	0	0	0
VHVIFNYK	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Unmodified	1270200	1659300	1246300	0	18438	0	0	0	0
VHVIFNYK	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Deamidation (N)	602750	283110	464380	0	0	0	0	0	0
VHVIFNYKGK	CALR; CALR; CALR	P27797; A0A7P0	CALR_HUMA	Deamidation (N)	1250200	1126500	1000400	0	0	29137	0	0	0
VHVQFFDDSPTR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6_HUMA	Unmodified	5421500	5389500	4540900	0	0	0	0	0	0
VHVTQEDFEMAVAK	PSMC5	P62195	PRS8_HUMA	Oxidation (M)	1023900	974360	0	0	0	0	0	0	0
VIAALLQTMEDQGNQR	IPO5; IPO5	O00410; H0Y8C6	IPO5_HUMA	Oxidation (M)	483990	525120	385150	0	0	0	0	0	0
VIAANNRILAER	IMPA1	P29218	IMPA1_HUM	Deamidation (N)	4316700	2890000	3499400	206220	165280	221930	0	0	0
VIAANNRILAER	IMPA1	P29218	IMPA1_HUM	2 Deamidation (N)	0	0	0	0	0	0	0	0	0
VIAATNRVDILDPALLR	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A_HUM	Unmodified	6711900	6208200	7316800	0	0	0	0	0	0
VIAATNRVDILDPALLR	PSMC3; PSMC3; PS	P17980; E9PM69;	PRS6A_HUM	Deamidation (N)	20293000	13045000	13872000	29234	0	0	10618	0	0
VIADNVKDWSK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMA	Unmodified	31395000	31642000	26934000	157770	165240	38691	0	0	0
VIADNVKDWSK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS_HUMA	Deamidation (N)	2818300	3390800	1495800	0	0	0	0	0	0
VIAGLYQR	PRKDC	P78527	PRKDC_HUM	Unmodified	9415100	11553000	10156000	137560	113230	0	0	0	0
VIAPMLSR	PLOD3; PLOD3; PLC	O60568; H7C0B8	PLOD3_HUM	Oxidation (M)	918960	0	846880	0	0	0	0	0	0
VIAPNPAQLQGQR	GATAD2B; GATAD2	Q8WXI9; A0A0U	P66B_HUMA	Unmodified	1700400	2095800	2408300	63422	78774	48704	0	0	0
VIAPPLIKFDMLMSPEGAR	LRRC20; LRRC20	Q8TCA0; A0A0A	LRC20_HUM	2 Oxidation (M)	0	536460	283990	0	0	0	0	0	0
VIAPPLIKFDMLMSPEGARAPLP	LRRC20; LRRC20	Q8TCA0; A0A0A	LRC20_HUM	2 Oxidation (M)	3776500	0	1212000	0	0	0	0	0	0
VIAQQVQLQQQQEQVR	TFAP4	Q01664	TFAP4_HUM	Unmodified	1058700	800490	747000	0	0	0	0	0	0
VIDDTNITR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	21271000	18651000	17223000	2231800	2136800	2347300	0	20100	0
VIDGLETLDELEKLPVNEK	PPIL3; PPIL3; PPIL3	Q9H2H8; B8ZZ77	PPIL3_HUMA	Unmodified	4775800	2769900	2447900	0	0	0	0	0	0
VIDGLETLDELEKLPVNEK	PPIL3; PPIL3; PPIL3	Q9H2H8; B8ZZ77	PPIL3_HUMA	Deamidation (N)	1863800	3155700	1060900	0	0	0	0	0	0
VIDPATATSVDLR	CCT4	P50991	TCPD_HUMA	Unmodified	5977300	4362400	4271900	0	48830	87334	0	0	0
VIDPATATSVDLRDIK	CCT4	P50991	TCPD_HUMA	Unmodified	5230800	4304600	3996200	74493	85844	0	0	0	0
VIDPPDTNLPPGINLWLGQR	NELL1; NELL1; NEL	Q92832; J3KNC5;	NELL1_HUM	Unmodified	197830	138320	0	0	0	0	0	0	0
VIDPVAPR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP_HUMA	Unmodified	4880600	4710500	3998500	197950	164760	234090	25162	0	0
VIDQQNGLYR	RPA1	P27694	RFA1_HUMA	Deamidation (N)	2583100	2580400	2965400	45536	0	0	0	0	0
VIDRELYQQLQR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2802900	3377200	3953100	212460	195500	213880	0	0	0
VIDTQQK	PFDN1; PFDN1	O60925; E5RGS4	PFD1_HUMA	Unmodified	0	0	1013900	0	0	0	0	0	0
VIEASDVVLEVLDAR	GNL3	Q9BVP2	GNL3_HUMA	Unmodified	52836	19006	51565	0	0	0	0	0	0
VIECDVVKDYAFVHMEK	RBM14	Q96PK6	RBM14_HUM	Oxidation (M)	1906200	0	925020	21057	0	20191	0	0	0
VIEDRDSQLR	NUP93	Q8N1F7	NUP93_HUM	Unmodified	5378700	661200	0	342080	350100	0	0	0	0
VIEEEWQQVDR	TMPO	P42166	LAP2A_HUM	Unmodified	3031000	3152700	3146100	0	0	0	0	0	0
VIEEQLEPAVEK	LRPPRC	P42704	LPPRC_HUM	Unmodified	2932300	2384700	3329100	0	0	0	0	0	0
VIELQEIISK	PPIA1; PPIA1; PPI	Q13136; E9PJZ7;	LIPA1_HUM	Unmodified	714440	587910	675130	26722	19351	15853	0	0	0
VIEPFSR	PSMD11	O00231	PSD11_HUM	Unmodified	6136300	8630900	5751500	0	65242	0	0	0	0
VIEPGCVR	DNAJA2	O60884	DNJA2_HUM	Unmodified	0	0	0	0	0	0	0	0	0
VIEPLKDFHKDEVR	GMPS	P49915	GUAA_HUMA	Unmodified	5421100	4783000	1285200	0	0	0	0	0	0
VIEPQYFGLAYLFR	LRPPRC	P42704	LPPRC_HUM	Unmodified	262960	194420	332390	0	0	0	0	0	0
VIEPQYFGLAYLFRK	LRPPRC	P42704	LPPRC_HUM	Unmodified	1148600	817100	1002400	0	0	0	0	0	0
VIEQLGGK	ATP6V1H; ATP6V1F	Q9UI12; G3V126	VATH_HUMA	Unmodified	1477000	3572300	2776500	0	0	0	0	0	0
VIEQLLVGLKDKDTVVR	TBCD; TBCD	Q9BTW9; J3KR97	TBCD_HUMA	Unmodified	1427700	1038900	893560	0	0	0	0	0	0
VIEQMGK	DDX19B; DDX19A; I	Q9UMR2; Q9NUI	DD19B_HUM	Oxidation (M)	56878	47899	0	0	0	0	0	0	0
VIEQPIR	SYMPK; SYMPK	Q92797; A0A087	SYMPK_HUN	Unmodified	467370	451900	359250	0	0	0	0	0	0
VIERLAQE	HAT1	O14929	HAT1_HUMA	Unmodified	0	0	0	208390	191430	266060	0	0	0
VIESTQDLGNDLAGVMALQR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M);Deam	940480	2305200	1648800	47562	38733	0	0	0	0
VIESTQDLGNDLAGVMALQR	SPTBN1; SPTBN1	Q01082; A0A087	SPTB2_HUM	Oxidation (M)	2291800	1418900	2836400	0	0	0	0	0	0
VIEVELAK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	0	0	1129900	30116	0	0	0	0	0
VIEVLPR	SEPHS2	Q99611	SPS2_HUMA	Unmodified	2344200	1857300	1810200	433680	433560	455430	52565	34862	0
VIFFLPWQK	GPD2; GPD2	P43304; F5GYK7	GPDM_HUM	Unmodified	2818000	2223100	2459900	0	19318	0	0	0	0
VIFGLFGK	PPIB; PPIB; PPIB; PF	P23284; A0A7P0	PPIB_HUMA	Unmodified	2457900	2729100	3291700	28074	0	30811	26863	0	0
VIFLENYR	PYGB; PYGM; PYGI	P11216; P11217;	PYGB_HUMA	Unmodified	2083800	1700700	1507900	19641	0	0	0	0	9786.5
VIFPAAEDKDQDLITIIGK	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Unmodified	7110900	4865600	8763900	0	0	0	0	0	0
VIFPAAEDKDQDLITIIGKEDAVR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Unmodified	10417000	2379900	4906200	0	0	0	0	0	0
VIFPAPTPK	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM_HUM	Unmodified	2743000	2399400	1847200	0	0	0	0	0	0
VIFTSPIK	MTREX	P42285	MTREX_HUM	Unmodified	2957600	2568000	2529400	0	0	0	0	0	0
VIGANKNQEEEK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150_HUM	Deamidation (N)	262810	996330	2970600	709040	0	34113	0	0	0
VIGGDDLSTLTGK	HPRT1	P00492	HPRT_HUMA	Unmodified	10187000	8007100	8921300	44784	54549	51486	0	0	0
VIGHYAGEDATDAFR	FADS2	O95864	FADS2_HUM	Unmodified	1867400	1698400	1243500	0	0	0	0	0	0
VIGKNGKVIQEIVDKSGVVR	FXR2; FXR1; FXR1;	P51116; P51114; I	FXR2_HUMA	Methyl (KR);Deam	0	1070700	0	0	0	0	0	0	0
VIGKNGKVIQEIVDKSGVVR	FXR2; FXR1; FXR1;	P51116; P51114; I	FXR2_HUMA	Deamidation (N)	0	0	417570	0	0	0	0	0	0
VIGLSSDLQQVGGASAR	EIF3F; EIF3F	O00303; H0YDT6	EIF3F_HUM	Unmodified	6193700	6464900	5260800	0	19022	25987	0	7099.8	0
VIGMHYFSPVDKMQLLEIITTEK	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUMA	2 Oxidation (M)	1853600	0	2323600	0	0	0	0	0	0
VIGNQSLVNELAFTAR	ECH1	Q13011	ECH1_HUMA	Unmodified	44657000	26526000	32757000	132710	74577	55041	23686	19646	21829
VIGNQSLVNELAFTAR	ECH1	Q13011	ECH1_HUMA	Deamidation (N)	37794000	25479000	23094000	18149	12856	0	0	0	0
VIGNQSLVNELAFTAR	ECH1	Q13011	ECH1_HUMA	2 Deamidation (N)	1419700	2614900	3658000	0	0	0	0	0	0
VIGNQSLVNELAFTARK	ECH1	Q13011	ECH1_HUMA	Unmodified	5827300	6201700	5080200	0	0	0	0	0	0
VIGNQSLVNELAFTARK	ECH1	Q13011	ECH1_HUMA	Deamidation (N)	4217500	3291600	4351500	0	0	0	0	0	0
VIGPEPTGFLLK	ZDHHC13	Q8IUH4	ZDH13_HUM	Unmodified	973050	1041000	1346800	10770	11002	0	0	0	0
VIGPFYEIVEDKK	ACBD5; ACBD5; AC	Q5T8D3; A0A7I2	ACBD5_HUM	Unmodified	919070	994490	761900	0	0	0	0	0	0
VIGSELVQK	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	9644500	5447700	5862400	0	0	0	0	7394.7	0
VIGSELVQKYVGEGAR	PSMC2; PSMC2	P35998; C9JX88	PRS7_HUMA	Unmodified	382250	329290	258600	0	0	0	0	0	0
VIGSGCNLDSAR	LDHAL6A; LDHC; L	Q6ZMR3; P07864	LDH6A_HUM	Unmodified	13418000	1111700	11526000	0	0	0	0	0	0
VIGSNFAPTVERDEFLVAEK	TUBGCP3; TUBGCP	Q96CW5; A0A3B	GCP3_HUMA	Deamidation (N)	0	0	1359400	0	0	0	0	0	0
VIGVLEPLDPEDYTK	GFM1; GFM1	Q96RP9; C9IZ01	EFGM_HUM	Unmodified	846760	877450	567830	0	0	0	0	0	0
VIHDNFGIVEGLMTTVHAITATQK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M)	328330000	91561000	213410000	182940	0	145730	0	59975	0
VIHDNFGIVEGLMTTVHAITATQK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Deam	13784000	4578800	13328000	0	0	0	0	0	0
VIHDNFGIVEGLMTTVHAITATQKTVDGPSGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M)	0	1282500	2567800	0	0	0	0	0	0
VIHLSNLPHSGYSDSAVLK	MATR3; MATR3; M	P43243; B3KM87	MATR3_HUM	Unmodified	5703500	6216400	4527300	91523	0	0	0	0	0
VIHSILNSPYAK	TUBG1; TUBG2; TU	P23258; Q9NRH3	TBG1_HUMA	Unmodified	4930900	4463600	5116000	80843	84938	72528	0	0	0
VIHSILNSPYAK	TUBG1; TUBG2; TU	P23258; Q9NRH3	TBG1_HUMA	Deamidation (N)	0	0	0	0	0	0	0	0	0
VIHVVTSEMDNYEPGVYTEK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1_HUM	Oxidation (M)	4404400	3870100	3849000	0	0	0	0	0	0
VIHVVTSEMDNYEPGVYTEK	CTNNA1; CTNNA1	P35221; G3XAM7	CTNA1_HUM	Oxidation (M);Deam	0	4017600	3302100	0	0	0	0	0	0
VIILGDSGVGK	RAB7A; RAB7A; RA	P51149; C9J4S4;	RAB7A_HUM	Unmodified	1925700	1617900	1852700	28954	0	0	0	0	0
VIISAPSADAPMFVMGVNHEK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	46218000	42091000	47929000	1185200	816230	837140	0	487790	414820
VIISAPSADAPMFVMGVNHEK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);De	95614000	91429000	103410000	732920	861410	612640	109640	70872	103600
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	46673000	42906000	40833000	207900	162320	0	76266	0	0
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);De	90254000	83317000	83346000	241530	175180	11634	68648	0	29717
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);2 I	88245000	95558000	85305000	91704	0	0	0	0	0
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);M	7581300	6510600	6795800	0	0	0	0	0	0
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);M	10570000	6732400	12408000	0	0	0	0	0	0
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);M	2367400	2622300	2908100	0	0	0	0	0	0
VIISAPSADAPMFVMGVNHEKYDNSLK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Met	4330900	5678300	5752500	0	0	0	0	0	0
VIIVVKDGPGFYTTR	HADHA; HADHA; H	P40939; A0A2R8	ECHA_HUM	Unmodified	541000	412540	484920	0	18446	13712	0	0	0
VIIVQEK	PUF60; PUF60; PUF	Q9UHX1; A0A0J	PUF60_HUM	Unmodified	3502900	3359800	2202900	47672	0	0	0	0	0
VIKDFMIQQGDFTR	PPIB; PPIB; PPIB; PF	P23284; A0A7P0	PPIB_HUMA	Oxidation (M)	11590000	14090000	13155000	457770	417400	351880	0	46351	32200
VIKDFMIQQGDFTRGDGTGGK	PPIB; PPIB; PPIB	P23284; A0A7P0	PPIB_HUMA	Oxidation (M)	4111600	4066000	4492000	0	75686	0	0	0	18445
VIKTDELPAAAPADSAR	CLUH; CLUH	I3L2B0; A0A494	I3L2B0_HUM	Unmodified	2917500	1100600	1102100	0	0	0	0	0	0
VILASPETSSAK	NR2C2; NR2C2	P49116; C9JKS0	NR2C2_HUM	Unmodified	870200	1111000	1155200	0	0	0	0	642530	0
VILDEGHAIRNPNAQQTK	HLTF; HLTF; HLTF	Q14527; A0A0C4	HLTF_HUMA	Unmodified	580520	615940	563280	0	0	0	0	0	0
VILGSEAAQQHPEEVR	DPP3; DPP3; DPP3; I	Q9NY33; E9PNX	DPP3_HUMA	Unmodified	13401000	11117000	12897000	153790	122880	200520	0	0	0
VILHLKEDQTEYLEER	HSP90AB4P; HSP90;	Q58FF6; P08238;	H90B4_HUM	Unmodified	66683000	60021000	58235000	0	0	0	22895	0	0
VILHLKEDQTEYLEER	HSP90AB4P; HSP90;	Q58FF6; P08238;	H90B4_HUM	Methyl (KR)	4045100	5326000	3454800	0	0	0	0	0	0
VILHLKEDQTEYLEERR	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B_HUM	Unmodified	36345000	31941000	33399000	74645	0	0	44139	0	0
VILHLKEDQTEYLEERR	HSP90AB1; HSP90A	P08238; Q58FF7;	HS90B_HUM	Methyl (KR)	2135900	5279300	0	0	0	0	0	0	0
VILKNSQGEEVAQR	LMNB1	P20700	LMNB1_HUM	Deamidation (N)	11969000	11188000	11526000	166790	182820	220240	0	0	0
VILKNSQGEEVAQR	LMNB1	P20700	LMNB1_HUM	Methyl (KR);Deam	320160	433410	468150	0	0	0	0	0	0

VILKNSQGEEVAQRSTVFK	LMNB1	P20700	LMNB1_HUM	Deamidation (N)	438040	626480	421300	0	0	0	0	0
VILPDLAVLR	PLCB4; PLCB4	Q15147; A0A7P0T	PLCB4_HUM	Unmodified	1045800	758700	815880	0	0	0	0	0
VILQDFTGVPAVVDFAAMR	ACO1	P21399	ACOC_HUM	Oxidation (M)	2944700	1498600	2733900	0	0	0	0	0
VILQDFTGVPAVVDFAAMRDAVK	ACO1	P21399	ACOC_HUM	Oxidation (M)	1185700	851650	1140100	0	0	0	0	0
VILTPMTAGSR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Oxidation (M)	0	0	0	98180	163790	101770	0	12822	0
VILVQEAGKQEELIK	ECT2; ECT2; ECT2;	Q9H8V3; C9J1C4	ECT2_HUM	Unmodified	1178800	1049600	1331400	0	0	0	0	0
VIMDYESLEK	PNP	P00491	PNPH_HUM	Oxidation (M)	934370	823810	800670	0	0	0	0	0
VIMVGSGGVGK	RALA; RALB; RALB	P11233; P11234;	RALA_HUM	Oxidation (M)	1998500	2160900	1722200	0	0	0	25344	0	0
VIMVTGDHPITAK	ATP1A1; ATP1A2; A	P05023; P50993;	AT1A1_HUM	Oxidation (M)	6139900	4639700	5787600	99503	140440	0	51399	0	11488
VINAAHSFYNGTTTLPISDEDR	GMPS	P49915	GUAA_HUM	Deamidation (N)	945860	845660	877410	0	0	0	0	0	0
VINAAHSFYNGTTTLPISDEDRTPR	GMPS	P49915	GUAA_HUM	Deamidation (N)	8816000	6619900	7536400	0	0	0	0	0	0
VINAAHSFYNGTTTLPISDEDRTPR	GMPS	P49915	GUAA_HUM	2 Deamidation (N)	987220	1023500	854210	0	0	0	0	0	0
VINAKDVDFMYVELIQR	PRKDC	P78527	PRKDC_HUM	Oxidation (M);Deam	466990	219540	387660	0	0	0	0	0	0
VINEEYKIWK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7_HUM	Deamidation (N)	811590	511680	646890	0	0	0	0	0	0
VINEEYKIWK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7_HUM	Unmodified	1528800	2157600	1865600	0	36033	0	0	0	0
VINEEYKIWKK	RBBP7; RBBP4; RBI	Q16576; Q09028;	RBBP7_HUM	Unmodified	693840	1073600	974200	0	0	0	0	0	0
VINEPTAAALAYGLDK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	1804300	1606100	1528300	29771	17649	0	15146	0	0
VINQILTEMDGMSTK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUM	2 Oxidation (M)	1671300	1589100	1225000	42691	35676	12484	0	0	0
VINQILTEMDGMSTKK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUM	2 Oxidation (M)	0	1119100	1099100	0	0	0	0	0	0
VIPEDGPAAQNPENVKR	OGDH; OGDH; OGD	Q02218; E9PCR7;	ODO1_HUM	Unmodified	2562900	1810200	1755300	0	122170	79965	0	0	0
VIPELNGK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Deamidation (N)	78943000	67867000	74540000	361050	200610	683530	0	0	0
VIPELNGKLTGMAFR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Deam	340260000	298870000	308260000	667270	1080100	920590	173700	106760	111680
VIPELNGKLTGMAFR	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M);Meth	13264000	18143000	13241000	53317	48348	38047	0	0	10828
VIQAGMFDQK	SMARCA4; SMARC;	P51532; P51531;	SMCA4_HUM	Oxidation (M)	886780	996680	829340	0	0	0	0	0	0
VIQALAMK	LRPPRC	P42704	LPPRC_HUM	Oxidation (M)	950330	0	0	0	0	0	0	0	0
VIQALAMKGDVENIEVVQK	LRPPRC	P42704	LPPRC_HUM	Oxidation (M)	2267900	2777500	2246300	0	0	0	0	0	0
VIQEGLEGLVLKDVK	LIG3	P49916	DNLI3_HUM	Unmodified	556810	364830	1174800	0	0	0	0	0	0
VIQEGRGELPDFQDGTK	AIP; AIP	O00170; E9PMH2	AIP_HUMAN	Unmodified	4768300	5679100	4683100	54256	54827	69135	0	10060	0
VIQEIVDK	FXR2; FXR1; FXR1;	P51116; P51114;	FXR2_HUM	Unmodified	1223800	1326500	1022000	0	0	14191	0	0	0
VIQEIVDKSGVVR	FXR2; FXR1; FXR1;	P51116; P51114;	FXR2_HUM	Unmodified	1714200	1295900	0	0	0	0	0	0	0
VIQGDGVDINTLQEIVEGMK	NAMPT; NAMPT; N	P43490; A0A7P01	NAMPT_HUM	Oxidation (M)	1804400	858780	1201500	0	0	0	0	0	0
VIQLMPSPIMHPLILNPR	ETV6	P41212	ETV6_HUMA	2 Oxidation (M)	3068700	3487600	3421100	39783	0	0	0	0	0
VIQPHGGGSNPLEGTQHLQDVPYVMVR	DSG2	Q14126	DSG2_HUMA	Oxidation (M)	8873400	8680500	8772500	23112	0	0	0	0	0
VIQSADSK	IPO5; IPO5	O00410; H0Y8C6	IPO5_HUMA	Unmodified	653950	867560	912910	28943	0	0	0	0	0
VIQSLEDTAKR	TBC1D9B	Q66K14	TBC9B_HUM	Unmodified	660310	830040	0	0	0	0	0	0	0
VIQVSPFLLALSGNSR	RPP14	O95059	RPP14_HUM	Deamidation (N)	267640	112850	254220	0	0	0	0	0	0
VIQYLAHVASSPK	MYH14; MYH14; M	Q7Z406; M0QY43	MYH14_HUM	Unmodified	1023400	1325500	1075300	0	0	0	0	0	0
VIQYLAYVASSHK	MYH9; MYH9	P35579; Q5BKV1	MYH9_HUM	Unmodified	2361800	2136800	2192600	0	0	0	0	0	0
VIRPLDQPSSFDATPYIK	CAND1	Q86VP6	CAND1_HUM	Unmodified	0	1065400	0	0	0	0	0	0	0
VISDKDLELLLDR	HELLS; HELLS; HEL	Q9NRZ9; A0A0B4	HELLS_HUM	Unmodified	343600	238160	334340	0	0	0	0	0	0
VISELNGK	RPLP2; RPLP2	P05387; H0YDD8	RLA2_HUMA	Deamidation (N)	1450800	1502300	1374900	0	0	0	0	0	0
VISELNGKNIEDVIAQGIGK	RPLP2; RPLP2	P05387; H0YDD8	RLA2_HUMA	Deamidation (N)	20669000	16042000	15466000	0	0	0	0	0	0
VISEPGEAEVFMTPEDFVR	MICU1; MICU1; MIC	Q9BPX6; A0A286	MICU1_HUM	Oxidation (M)	2172500	2046900	1700700	0	0	0	0	0	0
VISEYQK	NANS; NANS; NANS	Q9NR45; Q5TBR	SIAS_HUMA	Unmodified	8153300	6139300	5982900	706500	720950	615440	0	0	0
VISGVLQLGNIVFK	MYH9	P35579	MYH9_HUM	Unmodified	161660	0	102240	0	0	0	0	0	0
VISGVLQLGNIVFKK	MYH9	P35579	MYH9_HUM	Unmodified	3042500	2361400	3118400	0	0	0	0	0	0
VISLEDFMEK	POFUT1	Q9H488	OFUT1_HUM	Oxidation (M)	1488600	1912000	0	0	34367	0	0	0	0
VISMQKGGNMKEVFTR	CKB	P12277	KCRB_HUM	2 Oxidation (M);De	1222100	1876300	1150800	0	0	0	0	0	0
VISSGSVASYVTSPQGFQFR	HSPG2; HSPG2	P98160; A0A3B3I	PGBM_HUM	Unmodified	2680300	2149200	2062300	20664	0	0	29557	0	0
VISSIEQKTDTSDK	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUMA	Unmodified	764530	1108700	0	0	0	0	0	0	0
VISSIEQKTDTSDK	YWHAQ; YWHAQ	P27348; E9PG15	1433T_HUMA	Methyl (KR)	894260	0	0	0	0	0	0	0	0
VISSIEQKTER	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Methyl (KR)	1287300	0	0	0	0	18015	0	0	0
VISSIEQKTER	YWHAB; YWHAB; Y	P31946; Q4VV20;	1433B_HUM	Unmodified	2826600	3370200	2063000	97786	107260	111710	0	0	0
VISSIEQKTERNEK	YWHAB; YWHAB; Y	P31946; A0A0J9Y	1433B_HUM	Unmodified	2028300	1593100	1972000	85912	156970	81249	0	0	0
VISTMSVGIDHLALDEIK	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR_HUM	Oxidation (M)	4055500	3774300	4859000	0	0	0	0	0	0
VISTMSVGIDHLALDEIKKR	GRHPR; GRHPR	Q9UBQ7; U3KQ5	GRHPR_HUM	Oxidation (M)	8840500	5850600	3013600	0	0	0	0	0	0
VISTTDAER	PGM3; PGM3; PGM	O95394; J3KN95;	AGM1_HUM	Unmodified	4833100	2439800	383620	351130	341980	404610	0	0	0
VISVDELEYRQ	EIF4ENIF1; EIF4ENI	Q9NRA8; B1AKL	4ET_HUMAN	Unmodified	1064300	0	0	0	59428	58689	0	0	0
VITDENWR	TMX1; TMX1	Q9H3N1; G3V448	TMX1_HUM	Unmodified	1924500	1718800	1946900	0	42767	0	0	0	0
VITDIAGVIPAEK	RFC4; RFC4	P35249; H7C1P0	RFC4_HUMA	Unmodified	1401000	828880	1441300	0	0	0	0	0	0
VITEEEKNFKAFASLR	RPL13; RPL13; RPL	P26373; J3KS98;	RL13_HUMA	Unmodified	2103300	2255800	4781100	56505	60297	30548	0	0	0
VITEEEKNFKAFASLR	RPL13; RPL13; RPL	P26373; J3KS98;	RL13_HUMA	Deamidation (N)	3754500	2840800	3325600	42250	0	20043	0	0	0
VITEEMNGKEISPGSGPGEIR	EPB41L2; EPB41L2;	O43491; E9PMV8	E41L2_HUM	Oxidation (M);Deam	783100	1231500	1366200	457560	496330	472430	0	69161	47027
VITEYLNAQESAK	SND1	Q7KZF4	SND1_HUMA	Unmodified	2135300	3661600	3406000	0	67666	0	0	0	0
VITIMQNPR	RPS18	P62269	RS18_HUMA	Oxidation (M)	18064000	15176000	13054000	842090	696670	743700	51314	0	0
VITMFVQR	XRCC5; XRCC5; XR	P13010; C9JZ81;	XRCC5_HUM	Oxidation (M)	19129000	22215000	23725000	0	0	0	0	0	0
VIVAVGDR	NUP210	Q8TEM1	PO210_HUM	Unmodified	3089000	2925300	2888600	0	37958	0	0	0	0
VIVDFSSPNIAK	RARS1	P54136	SYRC_HUMA	Unmodified	1870900	1601500	2098000	34672	0	40422	0	0	0
VIVEHAR	SRSF6; SRSF4; SRSF	Q13247; Q08170;	SRSF6_HUM	Unmodified	0	0	7635500	720420	0	0	53009	0	0
VIVESASNIPK	MYOF	Q9NZM1	MYOF_HUM	Unmodified	1166700	1022500	621160	39537	46775	57840	0	0	0
VIVGGSSEYK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	725000	229700	925640	0	0	0	0	0	0
VIVMPTTK	IARS2	Q9NSE4	SYIM_HUMA	Oxidation (M)	2056700	1000100	860460	23219	0	62583	0	0	0
VIVMTTK	PTPN11; PTPN11	Q06124; A0A0U1	PTN11_HUM	Oxidation (M)	2907000	3038500	2954200	18783	71612	60892	0	0	0
VIVMTTKEVER	PTPN11; PTPN11	Q06124; A0A0U1	PTN11_HUM	Oxidation (M)	454460	278500	323300	23354	22805	26583	0	0	0
VIVMTTR	PTPN9; PTPN6; PTP	P43378; P29350;	PTN9_HUMA	Oxidation (M)	1993500	2100000	2265000	96866	81023	111390	0	0	0
VIVPNMEFR	CSE1L	P55060	XPO2_HUMA	Oxidation (M);Deam	4233400	1253300	4262900	0	149290	95197	0	0	0
VIVPNMEFR	CSE1L	P55060	XPO2_HUMA	Oxidation (M)	2509000	2794500	4202100	68366	66294	66130	0	0	0
VIVQQPGER	MYO1D; MYO1D; M	O94832; J3QRN6;	MYO1D_HUM	Unmodified	5289800	4950900	4891800	261100	276360	374980	0	0	0
VIYSQPSAR	F11R; F11R	Q9Y624; A0A087	JAM1_HUMA	Unmodified	1709300	1061400	1483300	59508	73971	18409	0	0	0
VKADRDESSPYAAMLAAQDVAQR	RPS14; RPS14; RPS1	P62263; E5RH77;	RS14_HUMA	Oxidation (M)	2947900	2471300	1714900	0	0	85501	0	0	0
VKAEGPGLSR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	2516200	2440400	3321100	194270	201660	199620	111350	86718	67675
VKAEPAKIEAFR	PGK1	P00558	PGK1_HUMA	Unmodified	3835300	4452300	4217100	0	92904	109860	0	0	0
VKCFCCGLMLDNWKRGDSPTEK	BIRC3; BIRC3	Q13489; A0A669	BIRC3_HUM	Oxidation (M);Meth	848410	0	646210	0	0	0	0	0	0
VKDLEKNRINEFEK	PRUNE2; PRUNE2; I	Q8WUY3; H7BZF	PRUN2_HUM	2 Methyl (KR);Dea	742720	913510	1145600	41190	34128	43698	0	0	0
VKDLESLFHR	LMNB2	Q03252	LMNB2_HUM	Unmodified	4215400	4157900	3599500	222720	197680	235180	0	0	9409
VKDLESLFHRSEVELAAALSDKR	LMNB2	Q03252	LMNB2_HUM	Unmodified	5188700	2068300	3605400	0	0	0	0	0	0
VKDMAAPGTSSVPAPTAGNAEK	DDX46; DDX46	Q7L014; A0A0C4	DDX46_HUM	Oxidation (M)	919130	191350	0	0	17687	0	0	0	0
VKEDENVPFLLVGNK	RALA; RALA	P11233; H7C3P7	RALA_HUM	Unmodified	1946500	1805500	1497800	48422	30485	40289	0	0	0
VKEEDESANSLRPGALFFSR	XRCC1; XRCC1; XR	P18887; M0QZ96	XRCC1_HUM	Unmodified	761880	0	0	26294	0	27525	0	0	0
VKEEDESANSLRPGALFFSR	XRCC1; XRCC1; XR	P18887; M0QZ96	XRCC1_HUM	Deamidation (N)	1202200	1349900	1378600	30055	24226	30621	0	0	0
VKEGYVPQEEVPVYENK	PYM1	Q9BRP8	PYM1_HUM	Unmodified	424190	0	505040	34989	44850	0	0	0	0
VKEIEAIESDSFVQQTFR	RSRC1; RSRC1; RSR	Q96IZ7; H7C5Q0;	RSRC1_HUM	Unmodified	0	2726300	2293600	0	0	0	0	0	0
VKEIGSTMSGR	SAP18; SAP18	O00422; H7BZW6	SAP18_HUM	Oxidation (M)	0	939360	0	0	0	0	0	0	0
VKELQAEQEDR	HDLBP; HDLBP; HD	Q00341; A0A024	VIGLN_HUM	Unmodified	5304500	3943100	2028600	0	0	0	0	0	0
VKEPSVQEATSTSDILK	SRRM1; SRRM1; SR	Q8IYB3; E9PCT1	SRRM1_HUM	Unmodified	3913800	4904100	4562800	248260	192620	230210	13976	0	0
VKEQLEAAKPEPVIEEVDLANLAPR	CCDC12; CCDC12	Q8WUD4; J3KR3	CCD12_HUM	Unmodified	1089700	911330	1271500	0	0	0	0	0	0
VKESMQMQVEAER	STOML2; STOML2	Q9UJZ1; A0A087	STML2_HUM	2 Oxidation (M)	7756200	0	5176900	0	0	0	0	0	0
VKETADFKVYTK	FLNA; FLNA; FLNA;	P21333; F8WE98;	FLNA_HUMA	Unmodified	1303200	894850	0	132540	0	0	74285	124190	0
VKGEEIYSMDEGIR	IPO9	Q96P70	IPO9_HUMA	Oxidation (M)	5768400	6329600	7023500	131390	148490	260690	0	0	0
VKGFGGAMTDAAALNILALSPPAQNLLLK	GBA; GBA; GBA	P04062; A0A0G2	GLCM_HUM	Oxidation (M)	374160	0	366730	0	0	0	0	0	0
VKGGVDVTLPRVEGK	AHNAK	Q09666	AHNK_HUM	Unmodified	0	0	0	319280	245170	224130	0	0	42489
VKHEVSGETVVFQGGALGK	ECPAS; ECPAS	Q5VYK3; J3KN1	ECM29_HUM	Unmodified	841690	709340	908810	85199	0	0	0	0	0
VKIEGEPEFR	POSTN; POSTN	Q15063; B1ALD9	POSTN_HUM	Unmodified	1334300	1094600	1261600	0	0	0	0	0	0
VKIEPGVDPDDTYNETPYEK	RNPEP; RNPEP; RNI	Q9H4A4; A6NKB	AMPB_HUM	Deamidation (N)	1785400	850690	698220	30867	30951	41088	0	0	0
VKIETALTSLHQR	NPTX1	Q15818	NPTX1_HUM	Unmodified	1034000	1148200	1276500	0	0	0	0	0	0
VKIMLPWDPTGK	RPS3; RPS3; RPS3; I	P23396; E9PSF4;	RS3_HUMAN	Oxidation (M)	937940	855460	1582300	0	0	0	0	0	0
VKIPEGTILTMDMLTVK	NANS	Q9NR45	SIAS_HUMA	2 Oxidation (M)	8613500	6544300	7551000	79490	84736	31593	103400	0	0
VKIPEMLQAEIDSR	ARHGEF11	O15085	ARHGB_HUM	Oxidation (M)	1301700	713560	1320100	0	0	0	0	0	0
VKKDDEEEDPLDQLISR	COA4	Q9NYJ1	COA4_HUMA	Unmodified	1339300	5130000	4926300	390730	660330	487810	11139	15718	44406
VKKEDEVQAIATLIEK	CCDC43; CCDC43	Q96MW1; Q86W	CCD43_HUM	Unmodified	439500	0	916530	0	0	0	0	0	0
VKLAADEDDDDDDEEDDDEDDDDDDFDDEEAEEKAPVKK	NPM1; NPM1; NPM1	P06748; A0A7I2Y	NPM_HUMA	Unmodified	20443000	18981000	19025000	0	0	0	0	0	0
VKLAAVDATVNQVLASR	PDIA6	Q15084	PDIA6_HUM	Unmodified	22593000	20661000	21007000	0	0	17211	0	0	0
VKLAAVDATVNQVLASR	PDIA6	Q15084	PDIA6_HUM	Methyl (KR)	749450	546880	764030	0	0	0	0	0	0
VKLAAVDATVNQVLASR	PDIA6	Q15084	PDIA6_HUM	Deamidation (N)	3948600	3663800	3803500	56733	22898	0	0	0	0
VKLADIQEQLNR	PFDN1; PFDN1	O60925; E5RGS4	PFD1_HUMA	Unmodified	792510	368510	378330	0	0	0	0	0	0
VKLEAEIATYRR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Unmodified	2436900	2622100	2278000	0	0	0	104420	0	0
VKLESPTVSTLTPSSPGK	PYCR2; PYCR2; PYC	Q96C36; A0A087	P5CR2_HUM	Unmodified	712860	610910	708740	0	0	0	0	0	0
VKLLLQVQHASK	SLC25A4; SLC25A6;	P12235; P12236;	ADT1_HUMA	Unmodified	1979500	2199900	1814900	0	0	0	0	0	0
VKLQEMEGTVK	MYH9	P35579	MYH9_HUM	Oxidation (M)	1919600	1579900	1784900	39451	0	0	0	0	0
VKLQEMEGTVKSKYK	MYH9	P35579	MYH9_HUM	2 Methyl (KR)	0	0	4103100	0	0	0	0	0	0
VKLTAELIEQAAQYTNAVR	SNRPA1; SNRPA1	P09661; H0YKK0	RU2A_HUMA	Deamidation (N)	972610	635200	422220	0	0	0	0	0	0
VKNPEDLSAETMAK	PPME1	Q9Y570	PPME1_HUM	Oxidation (M)	3169100	3503300	2880200	0	163080	69448	0	0	0
VKPAPDETSFSEALLK	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2_HUMAN	Unmodified	7061600	6815200	7552500	205570	151320	154210	0	0	0
VKPAPDETSFSEALLKR	ILF2; ILF2; ILF2; ILF	Q12905; B4DY09	ILF2_HUMAN	Unmodified	34811000	31253000	30252000	2127400	1691000	1492500	172020	185040	146260
VKPEEMMDERPK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU_HUM	2 Oxidation (M)	3537800	2994500	2871000	0	0	145420	0	0	0
VKPFMTGAAEQIK	N/A; TPT1; TPT1; TF	Q56UQ5; P13693;	TPT1_HUM	Oxidation (M)	1957100	3098200	3084500	0	0	0	0	0	0
VKPLQDQNELFGK	SF3A3	Q12874	SF3A3_HUM	Unmodified	544000	974990	969580	0	0	0	0	0	0
VKPQPPLSDAYLSGMPAK	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6_HUMA	Oxidation (M)	685950	670430	702210	0	28854	0	0	0	0
VKPQPPLSDAYLSGMPAKR	BAG6; BAG6; BAG6	P46379; H0Y4L1;	BAG6_HUMA	Oxidation (M)	928900	810100	0	0	0	0	0	0	0
VKQDMPPPGGYGPIDYKR	NDUFA13; NDUFA1	Q9P0J0; K7EJE1;	NDUAD_HUM	Oxidation (M)	0	0	0	0	174830	115290	0	0	0
VKSPELQAEAK	APOA2; APOA2; API	P02652; V9GYC1	APOA2_HUM	Unmodified	495300	431520	595010	0	0	0	0	0	0
VKSVLVDFLIGSGLK	ISYNA1	Q9NPH2	INO1_HUMA	Unmodified	229550	146950	188530	0	0	0	0	0	0

VKTLHPAVHAGILAR	ATIC; ATIC	P31939; C9JLK0	PUR9_HUMA	Unmodified	0	476420	714510	0	0	0	0	0	0
VKVEEEEEEKVAEEEETSVK	NOP58	Q9Y2X3	NOP58_HUM	Unmodified	715820	722270	477310	0	0	0	0	0	0
VKVEPAVDTSR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1744300	1627300	1939000	691760	728670	795730	0	0	0
VKVEPAVDTSRIK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	0	0	0	140460	176470	150300	0	0	0
VKVEPIPAIGHATLGTASR	FOXK2; FOXK2	Q01167; D3L4U8	FOXK2_HUM	Unmodified	0	1953200	2730800	97736	0	0	0	0	0
VKVEPSHDASK	FLNA; FLNA; FLNA	P21333; A0A7P0T	FLNA_HUMA	Unmodified	2007600	666620	1403400	72189	141190	42881	37337	24005	35798
VKVEPSHDASKVKAEGPGLSR	FLNA; FLNA; FLNA	P21333; A0A7P0T	FLNA_HUMA	Unmodified	1094800	659730	1008500	245930	174750	202820	96029	0	106970
VKVETYNDESR	RPA1; RPA1	P27694; I3L4R8	RFA1_HUMA	Unmodified	1433000	1006300	1204500	12422	0	0	0	0	0
VKVETYNDESRIK	RPA1; RPA1	P27694; I3L4R8	RFA1_HUMA	Deamidation (N)	452360	731050	633240	0	0	0	0	0	0
VKVPEVDVRGPK	AHNAK	Q09666	AHNK_HUMA	Unmodified	0	0	0	89569	115120	115570	46710	0	0
VKYETELAMR	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Oxidation (M)	15483000	19457000	17722000	3115200	2840800	3119900	0	71514	0
VKYETELAMRQSVENDIHGLRK	KRT18; KRT18	P05783; F8VZY9	K1C18_HUM	Oxidation (M);Deam	1352800	1661600	0	0	0	0	0	0	0
VKYTKDHTVR	TRIM28; TRIM28; TI	Q13263; M0R3C0	TIF1B_HUM	Unmodified	53069	0	0	470690	1397600	1241400	0	11801	0
VLAALQER	NAP1L4; NAP1L4; N	Q99733; C9J6D1;	NP1L4_HUM	Unmodified	4859600	4940200	4639500	0	13255	0	0	0	0
VLADPSDDTK	PLEC; EPPK1; PLEC	Q15149; P58107;	PLEC_HUMA	Unmodified	3021300	2312200	3776500	381100	445330	424000	0	0	0
VLADTKELVSSK	PLIN3; PLIN3; PLIN3	O60664; K7EL96;	PLIN3_HUM	Unmodified	1515300	1523100	1518600	59972	22525	62718	0	0	0
VLAETPDSFEK	NUP88; NUP88	Q99567; J3KMX1	NUP88_HUM	Unmodified	915010	312320	0	0	0	0	0	0	0
VLAETPDSFEKHIR	NUP88; NUP88	Q99567; J3KMX1	NUP88_HUM	Unmodified	0	1239600	0	29109	27959	28346	0	0	0
VLAFTAVGDGPPSPTIQVK	PTPRF; PTPRF; PTP	P10586; H0Y4H1;	PTPRF_HUM	Unmodified	368730	425230	669690	0	0	0	0	0	0
VLAGDKNFITAEELR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	2194900	2907700	2491100	25013	30176	20268	0	0	0
VLAGDKNFITAEELR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Deamidation (N)	0	560050	690520	12530	23314	0	0	0	0
VLAGDKNFITAEELRR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	14136000	12724000	24739000	580740	481220	273860	52110	0	0
VLAGDKNFITAEELRR	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Deamidation (N)	10386000	9224300	14127000	207520	219230	191990	29602	62638	49119
VLAGETLSVNDPPDVLDR	ILF3; ILF3; ILF3	Q12906; K7EKJ9;	ILF3_HUMA	Unmodified	2897300	2216400	2219000	0	0	0	0	0	0
VLAGETLSVNDPPDVLDR	ILF3; ILF3; ILF3	Q12906; K7EKJ9;	ILF3_HUMA	Deamidation (N)	285340	0	166660	0	0	0	0	0	0
VLAGQTLDINMAGEPKPDRPK	RALY; RALY; RALY	Q9UKM9; Q5QPI	RALY_HUMA	Oxidation (M)	11553000	13850000	11205000	0	0	0	0	0	0
VLAGQTLDINMAGEPKPDRPK	RALY; RALY; RALY	Q9UKM9; Q5QPI	RALY_HUMA	Oxidation (M);Deam	7254000	3917300	6690900	144200	80446	314880	23734	0	0
VLALEILPERVPTPR	SPIN4	Q56A73	SPIN4_HUMA	Unmodified	356380	262540	316370	0	0	0	0	0	0
VLALPEHK	TGIF2LX; TGIF2LY	Q8IUE1; Q8IUE0	TF2LX_HUM	Unmodified	261660	531590	1042100	0	0	0	0	0	0
VLALPEPSPAAPTLR	PLEC; PLEC	Q15149; H0YDN1	PLEC_HUMA	Unmodified	2401900	3983800	4047300	143120	151270	139390	0	0	0
VLAMSGDPNYLHR	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA_HUMA	Oxidation (M)	8940700	10221000	10435000	221590	175300	252000	0	0	0
VLANPGNSQVAR	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Unmodified	12107000	11216000	8737600	0	0	0	0	0	0
VLANPGNSQVAR	KPNB1; KPNB1	Q14974; J3QR48	IMB1_HUMA	Deamidation (N)	21728000	21742000	23764000	0	0	40245	0	0	0
VLAPASTLQSSYQIPTENSMTAR	DSG2	Q14126	DSG2_HUMA	Oxidation (M);Deam	3168900	2810000	1402000	112100	175730	169620	23322	0	0
VLAPILPDNFSTPTGSR	INCENP	Q9NQS7	INCE_HUMA	Unmodified	571430	0	316130	0	0	0	0	0	0
VLAQDVYAKDNLPPFPASVKDGYAVR	GPHN; GPHN	Q9NQX3; F5H035	GEPH_HUMA	Unmodified	1943500	0	3161600	0	0	0	0	0	0
VLAQLLR	PCSK1N; CD93	Q9UHG2; Q9NPY	PCS1N_HUM	Unmodified	828540	848060	987090	22853	14386	16638	0	0	0
VLAQNSGFDLQETLVK	CCT6A	P40227	TCPZ_HUMA	Deamidation (N)	3055900	2445200	3084900	0	0	0	0	0	0
VLATQPGPGR	RRP12; RRP12	Q5JTH9; A0A087	RRP12_HUM	Unmodified	2060500	2404500	2736000	146480	47291	180920	15073	0	15201
VLATVTKPVGGDKNGGTR	RPL6; RPL6; RPL6; I	Q02878; F8VU16;	RL6_HUMAN	Deamidation (N)	10080000	9147500	10093000	243750	249360	185550	0	0	0
VLCIINPGNPTGQVQSR	GPT2	Q8TD30	ALAT2_HUM	Unmodified	458970	643570	532250	0	0	0	0	0	0
VLDAIIQEK	SMC4; SMC4	Q9NTJ3; E9PD53	SMC4_HUMA	Unmodified	576110	745240	883360	0	0	0	0	0	0
VLDAMLPYLINYYGNPHSR	NFS1; NFS1; NFS1; I	Q9Y697; A2A2M	NFS1_HUMA	Oxidation (M);Deam	1407200	1485800	0	0	0	0	0	0	0
VLDAMLPYLINYYGNPHSR	NFS1; NFS1; NFS1; I	Q9Y697; A2A2M	NFS1_HUMA	Oxidation (M)	4728900	5885800	4169800	0	0	0	0	0	0
VLDAPGGGSVLVMEHMDMR	FN3KRP; FN3KRP; F	Q9HA64; I3L139;	KT3K_HUMA	3 Oxidation (M)	1587100	0	0	0	0	0	0	0	0
VLDASWYSPGTR	TST; TST	Q16762; B1AH48	THTR_HUMA	Unmodified	406940	1995300	1998000	56001	44735	0	0	0	0
VLDETAR	LMNB2	Q03252	LMNB2_HUM	Unmodified	0	4253600	3358600	0	0	601600	0	0	0
VLDEYEEEKR	SYNE2; SYNE2; SY	Q8WXH0; G3V5X	SYNE2_HUM	Unmodified	0	636490	731960	0	0	0	0	0	0
VLDFEHFLPMLQTVAK	MYL6; MYL6; MYL6	P60660; G3V1Y7;	MYL6_HUMA	Oxidation (M)	79975000	79960000	83607000	22618	0	22831	16555	9863.6	0
VLDIIYQPQAIFR	NLE1; NLE1; NLE1	Q9NVX2; A0A0A	NLE1_HUMA	Unmodified	309990	250400	275190	0	0	0	0	0	0
VLDLDLFR	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Unmodified	9567800	7252200	8873800	0	47405	0	0	0	0
VLDLDLFRVDK	SARS1; SARS1	P49591; Q5T5C7	SYSC_HUMA	Unmodified	965080	818700	783230	0	5902.3	0	16564	0	12243
VLDLGPITR	GP2	P55259	GP2_HUMAN	Unmodified	490110	582870	1138000	0	0	0	0	0	0
VLDLQQIK	PSMD13; PSMD13	Q9UNM6; J3KNQ	PSD13_HUM	Unmodified	3579400	4963500	3700000	138090	153140	113860	0	10917	0
VLDMPTQELGLPAYR	SARS2; SARS2; SAR	Q9NP81; M0QW2	SYSM_HUMA	Oxidation (M)	2566700	1819500	2110800	0	0	0	0	0	0
VLDNAIETEK	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Unmodified	0	1535900	544130	120440	117570	98053	0	0	0
VLDNYLTSPLPEEVDETSAEDEGVSQR	CLIC1	O00299	CLIC1_HUM	Unmodified	1966200	1304300	1991300	0	0	0	0	0	0
VLDNYLTSPLPEEVDETSAEDEGVSQRK	CLIC1	O00299	CLIC1_HUM	Unmodified	1820400	1220100	0	0	0	0	0	0	0
VLDPFTIKPLDR	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Unmodified	28524000	25435000	26100000	572080	477560	365120	0	0	0
VLDPFTIKPLDR	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Methyl (KR)	2034100	922220	949270	11604	0	0	0	0	0
VLDPFTIKPLDRK	TKT; TKT	P29401; A0A0B4	TKT_HUMAN	Unmodified	8511300	7148700	7048000	142430	69547	0	0	12566	0
VLDSGAPIK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Unmodified	9785300	9866900	7199200	495160	441230	436390	0	0	14381
VLDSGAPIKPVGPETLGR	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Unmodified	111460000	101310000	91097000	738670	491220	37697	265360	16549	24513
VLDSGAPIKPVGPETLGR	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Methyl (KR)	26171000	23887000	21636000	195330	116230	48397	31973	0	0
VLDTNDRFLR	MTHFD1L; MTHFD1	Q6UB35; P11586;	C1TM_HUMA	Deamidation (N)	4858100	6749500	5074700	135830	125360	0	0	0	0
VLDTSVAYVR	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A_HUM	Unmodified	0	0	591080	0	29164	24030	0	0	0
VLDVVER	ENTPD1; LAMB2	P49961; P55268	ENTP1_HUM	Unmodified	0	0	0	1004300	0	1080400	0	0	0
VLEALLPLK	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	556880	511110	661000	0	0	0	0	6985.1	0
VLEALLPLKGLEER	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	702230	0	1019600	0	0	0	0	0	0
VLEDGKQQVQVVGLQER	KIF2A; KIF2A; KIF2	O00139; A0A6Q8	KIF2A_HUM	Unmodified	1288000	781660	1243400	0	15479	0	0	0	0
VLEDSDLK	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Unmodified	17609000	16274000	17979000	870260	962200	1055000	0	0	0
VLEDSDLKK	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Unmodified	514230	855270	1237400	139130	0	158090	0	0	0
VLEDSDLKKSDIDEIVLVGGSTR	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Unmodified	55655000	29626000	51931000	0	0	0	0	0	0
VLEDSDLKKSDIDEIVLVGGSTR	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	4948400	5026700	4607600	0	0	0	0	0	0
VLEDSDLKKSDIDEIVLVGGSTRIPK	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Unmodified	13007000	12723000	16379000	0	0	0	0	0	0
VLEDSDLKKSDIDEIVLVGGSTRIPK	HSPA5; HSPA5	P11021; A0A7P0	BIP_HUMAN	Methyl (KR)	965110	852310	1019200	0	0	0	0	0	0
VLEEANQAINPK	DDX17; DDX17; DD	O92841; A0A1X7	DDX17_HUM	Deamidation (N)	1417600	1552400	1707100	0	0	37415	0	0	0
VLEEANQAINPK	DDX17; DDX17; DD	O92841; A0A1X7	DDX17_HUM	Unmodified	5505400	6757400	6185700	0	0	0	0	0	0
VLEEEKEAINQETVQQR	MAP2; MAP2; MAP2	P11137; E7EV03;	MTAP2_HUM	Unmodified	820360	821390	603450	0	0	0	0	0	0
VLEEGGFFEEK	PDLIM7	Q9NR12	PDLI7_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VLEEGSVEAR	CCDC124	Q96CT7	CC124_HUM	Unmodified	12048000	10887000	11816000	915900	359820	401470	0	0	83138
VLEEMESRFEK	LIN7C; LIN7C	Q9NUP9; G3V1D	LIN7C_HUMA	Oxidation (M)	1100200	1086400	1535700	71744	74289	79945	0	0	0
VLEGFIK	CRELD1; CRELD1	Q96HD1; A0A669	CREL1_HUM	Unmodified	0	211290	280490	8772.7	0	8083.3	0	0	0
VLEGHTDFINGLVFDPK	NUP37; NUP37	Q8NFH4; F8VTY7	NUP37_HUM	Deamidation (N)	502800	1383900	559190	0	0	0	0	0	0
VLEGLREDMLETLVPK	GPKOW	Q92917	GPKOW_HUM	Oxidation (M)	4273000	1483800	2500600	0	0	0	0	0	0
VLEGMAFAGFVSER	SBF1	O95248	MTMR5_HUM	Oxidation (M)	0	0	0	0	0	0	57743	0	0
VLEGMEVVR	PPIB; PPIB; PPIB	P23284; A0A7P0	PPIB_HUMA	Oxidation (M)	0	0	23696000	1300500	0	0	0	0	0
VLEGSELELAK	NUMA1; NUMA1; N	Q14980; F5H763;	NUMA1_HUM	Unmodified	1859400	0	0	0	0	77138	0	0	0
VLEGVIDRYQQSK	TRIM9	Q9C026	TRIM9_HUM	Unmodified	538720	420720	459850	0	0	0	0	0	0
VLEHQLLQTTK	TXNDC9; TXNDC9;	O14530; G3XAJ4;	TXND9_HUM	Unmodified	682290	930970	763770	0	0	0	0	0	0
VLELDNVK	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA_HUMA	Unmodified	5925500	8046100	8331500	47825	33044	105000	0	0	0
VLELDNVKSEIIPMFSNLASDEQDSVR	PPP2R1A; PPP2R1A	P30153; B3KQV6	2AAA_HUMA	Oxidation (M)	0	0	1054800	0	0	0	0	0	0
VLELDPALAPVVSR	AIP	O00170	AIP_HUMAN	Unmodified	19951000	19322000	18508000	121730	111820	78454	0	16753	20028
VLELEDELQESR	GOLGA3	Q08378	GOGA3_HUM	Unmodified	698100	473090	0	0	0	0	0	0	0
VLELENELQKER	HIP1	O00291	HIP1_HUMA	Unmodified	1611400	1671000	1290500	63008	48982	46942	0	0	0
VLELLLPIR	TTC38; TTC38	Q5R3I4; H7C089	TTC38_HUM	Unmodified	136580	105750	149080	0	0	0	0	0	0
VLELNASDER	RFC4; RFC4; RFC4;	P35249; C9J8M3;	RFC4_HUMA	Unmodified	670860	626040	0	0	0	0	0	0	0
VLEMDISK	FAM111B	Q6SJ93	F111B_HUM	Oxidation (M)	0	973340	0	0	0	0	0	0	0
VLEMDPLPSSKPFQK	STRBP	Q96SI9	STRBP_HUM	Oxidation (M)	2084500	1601600	2359400	0	11497	50177	0	0	0
VLENAEGAR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Unmodified	16382000	13266000	15183000	5776800	6616500	4828500	51731	50452	48409
VLENAEGAR	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75_HUM	Deamidation (N)	11859000	9131500	10988000	658730	2183100	1526600	0	0	0
VLEQCARCIQGGWRR	MYO19	Q96H55	MYO19_HUM	Unmodified	0	1120100	0	0	0	0	0	0	0
VLEQDKAR	DSP	P15924	DESP_HUMA	Unmodified	910610	502780	646810	0	0	0	0	0	0
VLEQLELDLDSR	DNMT1; DNMT1; DI	P26358; A0A72V	DNMT1_HUM	Unmodified	4070900	2935300	2412200	0	0	0	0	0	0
VLEQLTGQTPVFSK	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	Unmodified	7455100	5820500	6503000	38912	26288	58977	0	0	17189
VLEQLTGQTPVFSKAR	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	Methyl (KR)	575650	1424200	1042200	0	0	0	0	0	0
VLEQLTGQTPVFSKAR	RPL11; RPL11	P62913; Q5VVC8	RL11_HUMA	Unmodified	1482300	0	2490000	16322	16105	0	0	0	0
VLESEEQVLVMYHR	CUL2; CUL2; CUL2	Q13617; Q5T2B5	CUL2_HUMA	Oxidation (M)	800490	1076500	711870	0	0	41142	0	0	0
VLESLDR	BRI3BP; BRI3BP	Q8WY22; A0A5F	BRI3B_HUM	Unmodified	2023600	3062800	2195300	51344	0	64731	0	0	0
VLETAEDIQER	SPTAN1; SPTAN1; S	Q13813; A0A1B0	SPTN1_HUM	Unmodified	5409200	5809500	5432700	0	0	0	0	0	0
VLETEAVDQPDVVQR	ARFGEF3	Q5TH69	BIG3_HUMA	Unmodified	596640	720160	1086400	233430	219220	265440	0	0	0
VLETFLAK	TRIM25; TRIM25	Q14258; A0A3B3	TRI25_HUMA	Unmodified	1232000	1087800	1137100	0	0	0	0	0	0
VLETLQEKGER	GCLC; GCLC; GCLC	P48506; A0A2R8	GSH1_HUMA	Unmodified	1272900	608300	684130	0	7018.7	0	0	0	0
VLEVASGSGQHAAHFAR	METTL26; METTL2	Q96S19; H3BQ55	MTL26_HUM	Unmodified	3277900	3919300	4225800	207880	177140	181340	0	0	0
VLEVEKEDTEELR	GPATCH8; GPATCH	Q9UKJ3; K7EKU	GPTC8_HUM	Unmodified	624470	0	696110	0	0	0	0	0	0
VLEVFFIPMDPR	USP11; USP11	P51784; G5E9A6	UBP11_HUM	Oxidation (M)	2475200	2091200	2336000	0	0	0	0	0	0
VLEVGFGMAIAASK	GAMT; GAMT	Q14353; A0A1W2	GAMT_HUMA	Oxidation (M)	3017800	2172300	1651400	33172	20157	0	0	0	0
VLEVNPQNK	FKBP5	Q13451	FKBP5_HUM	Unmodified	3979400	4070600	3909600	85492	101630	94851	0	0	0
VLEVNPQNKAAR	FKBP5	Q13451	FKBP5_HUM	Unmodified	192660	186140	193150	0	0	0	0	0	0
VLEVPPVVVSR	ACOT7; ACOT7	O00154; K7EKP8	BACH_HUM	Unmodified	10574000	6852800	8664400	105680	0	98321	0	0	0
VLFAPMR	MVP; MVP; MVP; M	Q14764; H3BQK6	MVP_HUMA	Oxidation (M)	1114100	801120	1220200	90740	98423	93382	0	0	0
VLFASQEIPASPFR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	5248200	6941700	5670900	165820	124910	112980	62359	59471	69370
VLFDKVASQGEVVR	EPRS1; EPRS1	P07814; V9GYZ6	SYEP_HUMA	Unmodified	3395100	2777100	3423300	158440	132020	163330	0	19053	0
VLFDPFELDTSVTPGR	PWP2; LOC1027241	Q15269; A0A0B4	PWP2_HUMA	Unmodified	398910	473320	355190	0	0	0	0	0	0
VLFETDLVNPR	NID1	P14543	NID1_HUMA	Unmodified	2315100	2344500	2622600	780660	657940	700000	284230	351250	339960
VLFLGNLK	CORO2A	Q92828	COR2A_HUM	Unmodified	524130	689870	373850	0	0	0	0	0	0
VLFPGNSTQYNILEGLEK	MAP1B; MAP1B; M	P46821; D6RA32;	MAP1B_HUM	Deamidation (N)	967190	527030	1152100	0	0	0	0	0	0
VLFPLGLGHAAEYVRPR	COQ6; COQ6	Q9Y2Z9; A0A0D5	COQ6_HUMA	Unmodified	424630	868160	1227500	0	0	0	0	0	0
VLFSGSLR	CTHRC1; ABCC1; A	Q96CG8; P33527;	CTHR1_HUM	Unmodified	4986000	2792400	2492900	0	0	0	0	0	0
VLFSQAQVYELER	NKX2-4; NKX2-5; NI	Q9H2Z4; P52952;	NKX24_HUM	Unmodified	5333800	4148100	6119900	0	0	0	0	0	0
VLFSSNGGVVK	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1_HUM	Deamidation (N)	14383000	13412000	13982000	26262	0	44813	0	0	0
VLFSSNGGVVKGFK	PTBP1; PTBP1; PTB	P26599; A0A0D9	PTBP1_HUM	Deamidation (N)	1109900	801580	905330	0	0	0	0	0	0

VLFTGVVDAR	MDC1	Q14676	MDC1_HUM	Unmodified	0	1134000	1029200	0	0	17460	0	0	0
VLFTGVVDARGER	MDC1	Q14676	MDC1_HUM	Unmodified	1001300	792050	1190500	0	0	0	0	0	0
VLFYTDLVNPR	NID2; NID2; NID2	Q14112; H0YJV3;	NID2_HUMA	Unmodified	0	0	0	58364	40948	34786	18634	0	0
VLGAPVPAFEGR	AGRN; AGRN; AGR	O00468; A0A494	AGRIN_HUM	Unmodified	1893100	4422500	1978800	550730	565650	512790	0	41914	0
VLGATLLPDLIQK	NPEPPS; NPEPPS; N	P55786; A0A7I2V	PSA_HUMAN	Unmodified	770500	861740	872620	0	0	0	0	0	0
VLGEAQTK	MYBBP1A; MYBBP	Q9BQG0; I3L1L3	MBB1A_HUM	Unmodified	1798700	778380	2223400	80509	33228	0	0	0	0
VLGEKPELPDGGDDDDIIADISNR	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV_HUMA	Unmodified	10577000	5046600	8682900	0	0	0	0	0	0
VLGEKPELPDGGDDDDIIADISNRK	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV_HUMA	Unmodified	8030800	5999100	8845300	0	0	0	0	0	0
VLGEKPELPDGGDDDDIIADISNRK	SCIN; SCIN; SCIN	Q9Y6U3; E5RHN	ADSV_HUMA	Deamidation (N)	823280	2371700	0	0	0	0	0	0	0
VLGELWPLFGGR	ABCD3; ABCD3	P28288; A0A3B3I	ABCD3_HUM	Unmodified	869130	652710	919950	0	0	0	0	0	0
VLGESPVPHTVLNLKEPLYVGGAPDFSK	AGRN	A0A494C0G5	A0A494C0G5	Unmodified	2007800	1553600	1493700	0	0	0	0	0	0
VLGIAFSSAR	SUPT6H	Q7KZ85	SPT6H_HUM	Unmodified	780160	651380	0	0	0	0	0	0	0
VLGLVLLR	SNRPB; SNRPN; EDI	P14678; P63162;	RSMB_HUM	Unmodified	14097000	11166000	11538000	0	0	0	19176	0	0
VLGMDPLPSK	ILF3	Q12906	ILF3_HUMAN	Oxidation (M)	7344700	5118500	4289900	0	0	181830	0	0	0
VLGMDPLPSKMPK	ILF3	Q12906	ILF3_HUMAN	2 Oxidation (M)	1490800	1627700	952700	0	0	0	0	0	0
VLGMTLIQK	GLO1	Q04760	LGUL_HUMA	Oxidation (M)	15954000	13508000	9018300	396370	427930	331900	28591	68500	68549
VLGMTLIQKCDFPIMK	GLO1	Q04760	LGUL_HUMA	2 Oxidation (M)	1077500	872350	845450	0	0	0	0	0	0
VLGNMVHAIQIK	NF1; NF1; NF1	P21359; J3KSB5;	NF1_HUMAN	Oxidation (M)	288020	336660	484810	0	0	0	0	0	0
VLGNPKSDEMNVK	MYL6; MYL6; MYL	P60660; G8JLA2;	MYL6_HUM	Oxidation (M)	6162100	6682900	7024800	0	234460	285110	113690	0	123110
VLGPCSDILKR	PRKAR1A	P10644	KAP0_HUMA	Unmodified	1121300	1073800	827670	58272	51840	60644	0	0	9540.4
VLGQGSFGK	RPS6KA6; RPS6KA1	Q9UK32; Q15418	KS6A6_HUM	Unmodified	0	0	1429300	0	0	0	0	0	0
VLGSAPPPFTPSLLEQEVR	MISP3; MISP3	Q96FF7; A0A044I	MISP3_HUM	Unmodified	1011100	825950	843630	0	0	0	0	0	0
VLGSEGEEEDEALSPAK	LIG1; LIG1; LIG1; LI	P18858; B4E135;	DNLI1_HUM	Unmodified	760400	705440	884630	0	0	0	0	0	0
VLGSQEALHPVHYEEK	MAOA	P21397	AOFA_HUMA	Unmodified	0	0	1385800	0	0	0	0	0	0
VLGTAFDPFLGGK	HSPH1; HSPH1	Q92598; A0A0A0	HS105_HUM	Unmodified	1161800	777980	813240	0	0	0	0	0	0
VLGTEAVQDPTKVEAHVR	PRPF3	O43395	PRPF3_HUM	Unmodified	9059100	8728300	10357000	272500	289620	348790	0	0	0
VLGTPVETIELTEDRR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	2470000	664270	532900	0	0	0	0	0	0
VLGTSPEAIDSAENR	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	847380	748120	672680	0	0	0	0	0	0
VLGTSPEAIDSAENRFK	CAD; CAD	P27708; F8VPD4	PYR1_HUMA	Unmodified	1425000	1441600	1166100	0	0	0	0	0	0
VLGVENLR	CHDH	Q8NE62	CHDH_HUM	Unmodified	2293800	1358400	1738900	262590	281180	0	0	0	0
VLGVLEVSR	ILKAP; ILKAP; ILKA	Q9H0C8; H7C2I8	ILKAP_HUM	Unmodified	6512100	6937400	7953800	149000	112550	123560	0	0	0
VLGVNVMLR	CRABP2; CRABP2	P29373; Q5SYZ4	RABP2_HUM	Oxidation (M)	1382100	1066300	1437200	0	0	0	0	0	0
VLGVPIIVQASQAEK	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	9950200	9129300	8798900	162340	173050	138170	0	0	0
VLGVPIIVQASQAEKNR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Unmodified	6834100	9657400	7099900	202560	229090	257670	0	0	0
VLGVPIIVQASQAEKNR	RBM39; RBM39; RB	Q14498; G3XAC6	RBM39_HUM	Deamidation (N)	2436900	817970	2127200	21617	51244	0	0	0	0
VLGYIQLGQK	ALDH1B1	P30837	AL1B1_HUM	Unmodified	1324200	1379100	1319300	0	0	0	0	0	0
VLHEAEGHIVTCETNTGEVYR	SNRPD3; SNRPD3	P62318; H3BT13	SMD3_HUM	Unmodified	2501700	2634300	2469300	51250	44042	0	0	0	0
VLHGEQYLELYKPLPR	HSD17B4; HSD17B4	P51659; E7EPL9;	DHB4_HUM	Unmodified	1915200	0	1540800	31073	0	0	0	0	0
VLHHMGGMAGLQSMMR	SRP54; SRP54; SRP5	P61011; G3V480;	SRP54_HUM	4 Oxidation (M)	3572600	3755900	2653800	194200	0	498310	0	0	0
VLHIPEFYVGSILR	MRPL19; MRPL19; I	P49406; S4R3W9;	RM19_HUM	Unmodified	447480	321630	430260	0	0	0	0	0	0
VLHMDRNPYYGGESASITPLEDLYK	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB_HUMA	Oxidation (M)	1296200	1581500	1359700	0	0	0	0	0	0
VLHMDRNPYYGGESASITPLEDLYKR	GDI2; GDI2; GDI2; G	P50395; V9GYJ7;	GDIB_HUMA	Oxidation (M)	7969000	8378500	5624200	0	0	0	0	0	0
VLHMDRNPYYGGESSITPLEELYKR	GDI1; GDI1	P31150; G5E9U5	GDIA_HUMA	Oxidation (M)	4010400	4096500	7262100	0	0	0	0	0	0
VLHMVGDKPVFSFQPR	SARS2; SARS2; N/A	Q9NP81; M0QW2	SYSM_HUM	Oxidation (M)	3845300	3030200	3323000	78590	18284	46056	0	0	0
VLHVSENPVPLTVR	LRRC47	Q8N1G4	LRC47_HUM	Unmodified	0	6701500	7495400	229290	290960	296940	0	23291	47141
VLIAAHGNSLR	PGAM1; PGAM2	P18669; P15259	PGAM1_HUM	Unmodified	1233900	1779100	1767600	0	0	0	0	0	0
VLIAAHGNSLR	PGAM1; PGAM2	P18669; P15259	PGAM1_HUM	Deamidation (N)	3522000	3547000	4291900	0	0	0	0	0	0
VLIAAHGNSLRGIVK	PGAM1; PGAM2	P18669; P15259	PGAM1_HUM	Deamidation (N)	1169600	1207500	1362200	0	0	0	0	0	0
VLIALLAR	COLGALT1	Q8NBJ5	GT251_HUM	Unmodified	1478300	1233800	0	27216	23404	36742	0	0	0
VLIDIREYWMDPEGEMKPGR	SUB1	P53999	TCP4_HUMA	2 Oxidation (M)	1563900	924310	1256400	0	0	0	0	0	0
VLIEILCTR	ANXA7	P20073	ANXA7_HUM	Unmodified	1131000	889570	698290	0	49469	34028	0	0	0
VLIFSQMTK	CHD4; CHD3; CHD5	Q14839; Q12873;	CHD4_HUMA	Oxidation (M)	920030	1092500	1136600	0	0	0	0	0	0
VLIFSQMTR	SMARCA1; SMARC	P28370; O60264;	SMCA1_HUM	Oxidation (M)	2972500	3089500	3587300	32843	0	42593	0	0	0
VLIGENEKAER	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD_HUM	Deamidation (N)	2838400	3824500	2600000	266020	293220	0	0	0	0
VLIGENEKAER	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD_HUM	Unmodified	0	517570	312730	100550	168600	0	8042	0	0
VLIGGDETPEGQR	UGDH	O60701	UGDH_HUM	Unmodified	1221500	0	1287100	529520	735220	727630	0	0	0
VLIGGGDDGGVLR	SRM; SRM	P19623; K7ESL0	SPEE_HUMA	Unmodified	2552300	2188300	1767000	0	0	0	0	0	0
VLIGSGGR	GART; GART; GAR1	P22102; C9JZG2;	PUR2_HUMA	Unmodified	3595600	3281700	3585900	0	0	0	0	0	0
VLIGSGGREHTLAWK	GART; GART; GAR1	P22102; C9JZG2;	PUR2_HUMA	Unmodified	1864600	913080	1937800	0	0	0	0	0	0
VLIMHGGLFSEDGVTLDDIR	PPP5C; PPP5C; PPP	P53041; A8MU39	PPP5_HUMA	Oxidation (M)	4737300	2294200	3752900	0	0	0	0	0	0
VLIPVKQYPKFNFVGK	KHDRBS2; KHDRBS	Q5VWX1; Q0766	KHDR2_HUM	Deamidation (N)	2181300	2870400	2225100	0	0	0	0	0	0
VLIQVGYEPLPPTGR	MTCH2; MTCH2	Q9Y6C9; E9PIE4	MTCH2_HUM	Unmodified	1086500	915450	1255200	0	0	0	0	0	0
VLISDSLDPCCRK	PHGDH; PHGDH; PH	O43175; A0A286	SERA_HUMA	Unmodified	0	0	417210	0	0	0	0	0	0
VLISTDVWAR	EIF4A3; EIF4A3	P38919; I3L3H2	IF4A3_HUM	Unmodified	2260100	1811900	2743100	0	38329	26236	0	0	0
VLITENDVKEGLQR	WRNIP1	Q96S55	WRIP1_HUM	Deamidation (N)	6084200	8234500	1732700	501500	529350	294620	30134	24725	10459
VLITENDVKEGLQR	WRNIP1	Q96S55	WRIP1_HUM	Unmodified	2071400	3812900	3197100	334430	319350	337960	0	0	11562
VLITTDLLAR	EIF4A1; EIF4A2; EIF	P60842; Q14240;	IF4A1_HUMA	Unmodified	44326000	35517000	40749000	2233900	2058200	1672600	580940	491470	64521
VLIVSEDPELPYMRPPLSK	AIFM1; AIFM1; AIFM	O95831; A0A7Z8	AIFM1_HUM	Oxidation (M)	18131000	16591000	18528000	219920	167530	79586	41362	34016	0
VLKDQPPNSVEGLLNALR	CYRIB	Q9NUQ9	CYRIB_HUM	Deamidation (N)	7112000	5716200	6337100	0	0	0	0	0	0
VLKEEGNELVK	TOMM34	Q15785	TOM34_HUM	Unmodified	441570	354020	419400	0	73360	51587	0	0	0
VLKISEEDELDTK	PEA15; PEA15	Q15121; B1AKZ5	PEA15_HUM	Unmodified	327770	520450	470540	0	0	0	0	0	0
VLKQVHPDTGISSK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Methyl (KR)	14937000	15990000	21791000	171190	201760	188820	18432	0	0
VLKQVHPDTGISSK	H2BC4; H2BC11; H2	P62807; P06899;	H2B1C_HUM	Unmodified	34643000	38593000	37927000	820270	768200	844610	66297	62357	72277
VLLATLSIPITPER	EIF3A	Q14152	EIF3A_HUM	Unmodified	2025300	1775000	1655300	0	0	0	10859	0	14013
VLLATLSIPITPERTDIAR	EIF3A	Q14152	EIF3A_HUM	Unmodified	10212000	6536100	7674600	0	0	0	0	0	0
VLLDQLR	APMAP; APMAP	Q9HDC9; H0YS1	APMAP_HUM	Unmodified	5470700	5391900	5154500	28836	0	39278	0	0	0
VLLEAGEGLVTITPTTGSDGRPDAR	DPP3; DPP3; DPP3	Q9NY33; G3V1D	DPP3_HUMA	Unmodified	1761200	1007900	1229600	0	0	0	0	0	0
VLLESEQFLTELTR	SRP14; SRP14	P37108; H0YLA2	SRP14_HUM	Unmodified	30901000	14960000	28110000	20310	0	19649	13292	18102	14961
VLLFNATGDRDPAALLK	FPGS	Q05932	FOLC_HUMA	Unmodified	804820	382230	355880	0	0	0	0	0	0
VLLGETGK	RPS11; RPS11; RPS1	P62280; M0R1H6	RS11_HUMA	Unmodified	3540700	2811100	3168200	114050	112970	115720	0	0	0
VLLGETGKEKLPR	RPS11; RPS11; RPS1	P62280; M0R1H6	RS11_HUMA	Unmodified	3793400	4576200	5950500	233330	220470	253750	0	0	0
VLLGLSEPIFQLPR	MFN1	Q8IWA4	MFN1_HUM	Unmodified	639260	384500	566350	0	0	0	0	0	0
VLLGSVSGLAGGFVGTPADLVNVR	SLC25A10; SLC25A1	Q9UBX3; F6RGN	DIC_HUMAN	Unmodified	685420	0	498030	0	0	0	0	0	0
VLLGVGDPK	NOP56; NOP56; NOP	O00567; Q5JXT2;	NOP56_HUM	Unmodified	4959100	0	4229300	112580	149000	192010	0	0	0
VLLIESLATMEPDSRPELQEK	ECPAS; ECPAS	Q5VYK3; J3KN1	ECM29_HUM	Oxidation (M)	0	985880	1357300	0	0	0	0	0	0
VLLIETQR	TMPRSS2; TMPRSS	O15393; C9JKZ3;	TMPS2_HUM	Unmodified	0	0	0	304740	279320	239940	0	0	0
VLLIYDGIHVDPLQR	YOD1	Q5VVQ6	OTU1_HUMA	Unmodified	0	142930	241990	0	0	0	0	0	0
VLLLEAGPK	CHDH; CHDH; CHDI	Q8NE62; C9JYW4	CHDH_HUM	Unmodified	710170	0	838220	40985	37286	41208	0	0	0
VLLLPLERDSELLR	UBR5	O95071	UBR5_HUMA	Unmodified	686390	336010	872120	0	0	0	0	0	0
VLLLSSPGLEELYR	CCAR2; CCAR2; CC	Q8N163; E5RHJ4	CCAR2_HUM	Unmodified	2276600	3094300	2587400	0	0	0	0	0	0
VLLLTVPGMEETTSEADKNLSK	CRTC1; CRTC1; CR	Q6UUV9; M0QX4	CRTC1_HUM	Oxidation (M)	981130	1073100	2452600	0	27588	0	0	0	0
VLLMELEEAR	TPR	P12270	TPR_HUMAN	Oxidation (M)	2307300	1497000	1097400	0	0	0	0	0	0
VLLPEYGGTK	HSPE1; HSPE1; HSP	P61604; B8ZZ54;	CH10_HUMA	Unmodified	44231000	39311000	35441000	461320	440540	466660	0	27647	0
VLLPFTR	NUP210	Q8TEM1	PO210_HUM	Unmodified	13369000	10959000	9888500	306960	336970	476770	0	0	0
VLLPTRPAPPTVEQILEDVR	C19orf25; C19orf25;	Q9UFG5; E7EP72	CS025_HUM	Unmodified	898190	537400	854900	0	0	0	0	0	0
VLLPVWEAEGLGLR	HECTD3	Q5T447	HECD3_HUM	Unmodified	276100	307290	113200	0	0	0	0	0	0
VLLQEEGTR	DSP	P15924	DESP_HUMA	Unmodified	17375000	23736000	19393000	584270	532230	626180	0	0	0
VLLQSKDQITAGNAAR	PAICS; PAICS	P22234; E9PBS1	PUR6_HUMA	Unmodified	3610600	4314500	3002200	62008	51799	47352	0	0	0
VLLQSKDQITAGNAAR	PAICS; PAICS	P22234; E9PBS1	PUR6_HUMA	Methyl (KR)	1289000	1298900	1133400	0	0	0	0	0	0
VLLQSKDQITAGNAAR	PAICS; PAICS	P22234; E9PBS1	PUR6_HUMA	Deamidation (N)	2419700	2372000	2232100	18055	20597	21519	0	0	0
VLLSALER	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC_HUMA	Unmodified	2186400	1709700	9524600	20681	11805	0	0	0	9550.3
VLLSDSNLHDA	CIAPIN1; CIAPIN1	Q6FI81; H3BV90	CPIN1_HUM	Unmodified	2140900	1404300	1510700	98455	121000	103830	0	0	0
VLLSPDYLPAMR	HUWE1	Q7Z6Z7	HUWE1_HUM	Oxidation (M)	0	0	2510500	0	0	0	0	0	0
VLLSPSIPSVGQDQTLSPGSK	TP53BP2	Q13625	ASPP2_HUM	Unmodified	1078300	958050	793980	21470	17019	0	0	0	0
VLLTMIAR	SEC22B	O75396	SC22B_HUM	Oxidation (M)	25958000	23460000	27988000	4798500	4465300	4335700	1275100	1488100	1262200
VLLTRPGEGGTGLPGPPLITR	PTPRK; PTPRK; PTP	Q15262; Q5TG12	PTPRK_HUM	Unmodified	598670	355910	448940	0	0	0	0	0	0
VLLTTQGVDMISK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	11843000	9330000	9520300	446770	420690	319120	0	0	0
VLLVPGPEK	VAT1; VAT1	Q99536; K7EJM4	VAT1_HUMA	Unmodified	4152200	0	112950	11667	188000	0	0	0	21419
VLLVPGPEKEN	VAT1; VAT1	Q99536; K7EJM4	VAT1_HUMA	Unmodified	19340000	15953000	16377000	1991500	2109400	2323400	0	642030	0
VLMTQQPRPVL	NOP10	Q9NPE3	NOP10_HUM	Oxidation (M)	779430	721130	755140	34174	0	0	0	0	0
VLNHFSIMQQR	GTF2F1; GTF2F1; GT	P35269; M0R0R9	T2FA_HUMA	Oxidation (M)	879320	750720	0	28725	0	0	0	0	0
VLNMKPPEILSMIEEAAGTR	SMC2; SMC2	O95347; Q5T821	SMC2_HUMA	2 Oxidation (M);De	436400	344030	484460	0	0	0	0	0	0
VLNNMEIGTSLFDEEGAK	PGK1	P00558	PGK1_HUMA	Oxidation (M)	6012700	4559600	6587900	99191	76228	90470	0	0	0
VLNNMEIGTSLFDEEGAK	PGK1	P00558	PGK1_HUMA	Oxidation (M);Deau	13067000	7524700	13452000	0	12037	19006	0	0	0
VLNNMEIGTSLFDEEGAK	PGK1	P00558	PGK1_HUMA	Oxidation (M);2 De	6092200	1550300	1627900	0	0	0	0	0	0
VLNNMEIGTSLFDEEGAKIVK	PGK1	P00558	PGK1_HUMA	Oxidation (M);Deau	3764100	2532400	2416300	0	0	0	0	0	0
VLNQELR	APOD; APOD; APOE	P05090; C9JX71;	APOD_HUM	Unmodified	4423900	3039000	3483200	1559300	1462800	1669800	0	0	0
VLNTNIDGR	RPS18; RPS18; RPS1	P62269; A0A0G2	RS18_HUMA	Unmodified	167160	205620	2360000	0	265850	0	0	0	0
VLNVTNLFFSDTR	PHF2	O75151	PHF2_HUMA	Unmodified	1602500	2104300	2314300	43545	42426	21125	0	0	0
VLNYAPGPLDTDMQQLAR	SPR	P35270	SPRE_HUMA	Oxidation (M)	4143500	3069800	3551100	399250	359180	321160	36069	45121	32298
VLPAPILQYGGR	AGO1; AGO1; AGO1	Q9UL18; A0A6I8	AGO1_HUM	Unmodified	1174000	1072900	858950	200480	158400	193970	31554	29221	26603
VLPASELSDPGLLLKQDLAK	SLX4IP	Q5VYV7	SLX4I_HUM	Unmodified	1036700	1626200	0	0	0	0	0	0	0
VLPDVLQVSAAPPGPR	IGSF8; IGSF8	Q969P0; C9J8Z4	IGSF8_HUM	Unmodified	1871700	2343000	2367600	169810	166360	163060	0	0	0
VLPEGGAQCECPLGR	AGRN; AGRN; AGR	O00468; A0A494	AGRIN_HUM	Unmodified	138670	221700	209860	102770	96786	123930	0	0	0
VLPEKLGVDLDAQTWR	GART	P22102	PUR2_HUMA	Unmodified	273980	174830	467370	0	0	0	0	0	0
VLPGKYLEEIATQMR	PFKP; PFKP; PFKP;	Q01813; A0A7Z4	PFKAP_HUM	Oxidation (M)	731550	1162700	1313300	0	0	0	0	0	0
VLPGVDALSNI	PGK1	P00558	PGK1_HUMA	Unmodified	25193000	26274000	31116000	0	11466	208150	189550	165030	195060
VLPIKPADVEEPAVPQTPR	RBM33; RBM33	Q96EV2; H0Y3K4	RBM33_HUM	Unmodified	3229100	2141200	2419400	110130	0	99977	0	28891	28417
VLPIMFPALYR	PPP2R5D; PPP2R5D	Q14738; H0Y8C4	2A5D_HUMA	Oxidation (M)	1382500	1952400	1816100	0	0	0	0	0	0
VLPLEALVTDAGEVTEAGK	GCN1	Q92616	GCN1_HUMA	Unmodified	0	287970	352840	0	0	0	0	0	0
VLPPNWK	RPS13; SETD2	P62277; Q9BYW2	RS13_HUMA	Unmodified	699420	0	862280	0	0	0	0	0	0
VLPPPAGYVPIR	SF3B1	O75533	SF3B1_HUM	Unmodified	3980500	3128500	4122600	246460	238490	271990	0	15219	16284

VLPPVPTEGLTPDDVPALADR	AGPAT1	Q99943	PLCA_HUMA	Unmodified	2210500	1807200	2234200	0	0	0	0	0	0
VLPQLISTITASVQNPALR	GCN1	Q92616	GCN1_HUMA	Unmodified	586050	0	207460	0	0	0	0	0	0
VLPSDLDLLLHMNNAR	THEM6	Q8WUY1	THEM6_HUM	Oxidation (M)	1886400	1895800	2002700	0	0	0	0	0	0
VLPSDLDLLLHMNNAR	THEM6	Q8WUY1	THEM6_HUM	Oxidation (M);Deam	1330200	2252800	1255500	0	0	0	0	0	0
VLPSDLDLLLHMNNAR	THEM6	Q8WUY1	THEM6_HUM	Oxidation (M);2 De	1255600	766360	1358000	0	0	0	0	0	0
VLPSFWIPSLTPEAK	NOSIP; NOSIP; NOSI	Q9Y314; A0A075	NOSIP_HUM	Unmodified	155330	228110	234080	0	0	0	0	0	0
VLPSITTEILK	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	25909000	11400000	13576000	30800	25314	23832	0	0	0
VLPSITTEILKSVVAR	PHB; PHB; PHB; PHI	P35232; C9JZ20;	PHB_HUMAN	Unmodified	3487500	2604400	2805100	0	0	0	0	0	0
VLPSIVNEVLK	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	1853900	1445800	2241700	21566	32577	25466	0	33261	34578
VLPSIVNEVLKSVVAK	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Unmodified	236930	128630	188830	0	0	0	0	0	0
VLPSQTPQPAHHTPDTR	ZFYVE19; ZFYVE19	Q96K21; H3BN64	ANCHR_HUM	Unmodified	708110	484120	751680	0	0	0	0	0	0
VLPTQPNPVDASR	EMC1	Q8N766	EMC1_HUMA	Unmodified	3351100	2711600	2810300	225340	188410	228290	0	0	15400
VLPYPFTHHWQFER	UTP14A	Q9BVJ6	UTP14A_HUM	Unmodified	1342400	1127400	1095100	0	0	0	0	0	0
VLQALEGLK	RPS19; RPS19	P39019; A0A075F	RS19_HUMA	Unmodified	2404400	3759100	2593100	50305	46856	33379	0	0	0
VLQALGSEPIQYAVPVVK	MYO1C; MYO1C	O00159; F5H6E2	MYO1C_HUM	Unmodified	2656900	2248300	3288100	20588	18016	0	0	0	0
VLQALGSEPIQYAVPVVKYDR	MYO1C; MYO1C	O00159; F5H6E2	MYO1C_HUM	Unmodified	2257700	2616300	2067500	0	0	0	0	0	0
VLQAMLATQLR	GPC1; GPC1; GPC1;	P35052; H7C024;	GPC1_HUMA	Oxidation (M)	856820	842050	886210	0	0	0	0	0	0
VLQAQGSSDPEEESVLYSNR	TOMM34	Q15785	TOM34_HUM	Unmodified	0	0	0	192930	163940	190340	0	0	0
VLQATVVAVGSGSK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Unmodified	16749000	18216000	11523000	0	216000	211720	23089	0	0
VLQATVVAVGSGSKGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Unmodified	9332000	7451800	6252400	257600	287070	279420	38722	31210	0
VLQATVVAVGSGSKGK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Methyl (KR)	2412400	2384700	2901800	0	0	0	0	0	0
VLQDLVPDDR	ZNF512; ZNF512	Q96ME7; G3XAG	ZN512_HUM	Unmodified	1206600	1279400	1178100	0	0	34295	0	0	0
VLQDMGLPTGAEGR	ILF3	Q12906	ILF3_HUMAN	Oxidation (M)	13968000	12097000	13196000	209820	167150	240120	0	0	0
VLQEEMKEGTDMFIIK	EFL1	Q7Z2Z2	EFL1_HUMA	Oxidation (M)	1292400	814490	1368000	0	0	0	0	0	0
VLQGDLVMNVYR	FASN; FASN	P49327; A0A0U1I	FAS_HUMAN	Oxidation (M)	2994900	1899200	3009400	67253	49335	8999.1	0	0	0
VLQGMVDDGSDDRPAGTR	PDLIM3; PDLIM3; P	Q53GG5; A0A087	PDLI3_HUM	Oxidation (M)	1138500	1056400	878140	51999	75015	88448	0	0	0
VLQHYQESDKGEELGPGNVQK	MTCH2	Q9Y6C9	MTCH2_HUM	Unmodified	5754500	6172900	6115700	0	0	0	0	0	0
VLQKLDDDGLPFKGAK	POLR1B; POLR1B	Q9H9Y6; H7C0D5	RPA2_HUMA	Unmodified	306880	227080	239470	0	0	0	0	0	0
VLQLINDNTATALSYGVFR	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Unmodified	0	0	390880	0	0	0	0	0	0
VLQLMLR	MCM5; MCM5	P33992; B1AHB1	MCM5_HUM	Oxidation (M)	2041600	1733600	1386800	0	0	0	0	0	0
VLQLSDTAIVPIGYHVPR	CORO7; CORO7-PAI	P57737; B3L167;	CORO7_HUM	Unmodified	2059100	2475700	2242700	0	0	0	0	0	0
VLQLTSWDEDAWASK	VCL	P18206	VINC_HUMA	Unmodified	219410	0	171470	0	0	0	0	0	0
VLQLTSWDEDAWASKDTEAMKR	VCL	P18206	VINC_HUMA	Oxidation (M)	930690	1018700	1495400	0	0	0	0	0	0
VLQLYPNNK	FKBP4; FKBP4	Q02790; H0YFG2	FKBP4_HUM	Deamidation (N)	1351700	1416600	1633400	54967	68222	77280	0	0	0
VLQLYPNNKAAK	FKBP4; FKBP4	Q02790; H0YFG2	FKBP4_HUM	Deamidation (N)	1784200	2536900	3026700	52118	95079	104270	0	0	0
VLQPGTALFSR	RABIF	P47224	MSS4_HUMA	Unmodified	3795600	3666800	4026900	224670	226620	225370	24505	28409	0
VLQPPSILYGGR	AGO2	Q9UKV8	AGO2_HUMA	Unmodified	1452300	1262700	1522800	53006	49283	37175	0	0	0
VLQPTVFPVVPR	ACSL1; ACSL1; ACS	P33121; B7Z3Z9;	ACSL1_HUM	Unmodified	1137100	0	0	29844	34816	35263	0	0	0
VLQSALAAIR	ILF2; ILF2	Q12905; B4DY09	ILF2_HUMAN	Unmodified	6626300	4860800	6087200	0	0	0	0	0	0
VLQSFTVDSSKAGLAPLEVR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Methyl (KR)	1195400	1526100	1661900	0	0	0	22652	0	0
VLQSPATTVVR	PNPT1	Q8TCS8	PNPT1_HUM	Unmodified	1330600	1228000	1416100	52399	53493	47192	0	0	0
VLQTEQAVK	AAMDC; AAMDC; A	Q9H7C9; E9PNP3	AAMDC_HUM	Unmodified	857640	684340	760240	0	0	29096	0	0	0
VLQVSFK	ELAVL2; ELAVL3; I	Q12926; Q14576;	ELAV2_HUM	Unmodified	2975700	2502200	2459800	0	0	0	0	0	0
VLRDGFAEEAPSTSR	NSMCE3	Q96MG7	NSE3_HUMA	Unmodified	727970	898880	722730	24006	0	0	0	0	0
VLRPPGGGSNFSLGFDEPTEQPVR	JPT1; JPT1	Q9UK76; J3KT51	JUPI1_HUMA	Unmodified	6300500	6432200	9408300	26761	0	0	0	0	0
VLRPPGGGSNFSLGFDEPTEQPVR	JPT1; JPT1	Q9UK76; J3KT51	JUPI1_HUMA	Deamidation (N)	4164400	3831100	3374100	0	0	0	0	0	0
VLRPPGGGSNFSLGFDEPTEQPVRK	JPT1; JPT1	Q9UK76; J3KT51	JUPI1_HUMA	Unmodified	6171100	8608500	6357200	114030	86566	52329	0	0	0
VLRPPGGGSNFSLGFDEPTEQPVRK	JPT1; JPT1	Q9UK76; J3KT51	JUPI1_HUMA	Deamidation (N)	6497200	5768100	996270	53196	0	0	0	0	0
VLRPQVTAVAQQNQGEVPEPQDMK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	0	2489900	0	0	0	0	0	0	0
VLRPQVTAVAQQNQGEVPEPQDMK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M);Deam	0	1196000	0	0	0	0	0	0	0
VLSAPPHFHFGQTNR	EEF1G	P26641	EF1G_HUMA	Unmodified	12501000	11713000	12961000	144340	136380	204710	0	0	0
VLSAPPHFHFGQTNR	EEF1G	P26641	EF1G_HUMA	Deamidation (N)	916810	2319900	1154000	0	0	0	0	0	0
VLSAPPHFHFGQTNRTPEFLR	EEF1G	P26641	EF1G_HUMA	Deamidation (N)	4614000	5387000	3814400	0	0	0	0	0	0
VLSASEVAALSSPASSAPHSGGK	CHD8; CHD8; CHD8	Q9HCK8; A0A2R	CHD8_HUMA	Unmodified	1342200	0	829270	0	0	0	0	0	0
VLSATSATK	EXOSC10; EXOSC10	Q01780; K7EJ37	EXOSX_HUM	Unmodified	1561900	1322400	1190900	0	0	0	0	0	0
VLSDVDAFIAYVGTDQK	XPO5	Q9HAV4	XPO5_HUMA	Unmodified	0	0	1581900	0	0	0	0	0	0
VLSEAAISASLEKFEIPVK	ACSL3; ACSL3; ACS	O95573; A0A7P0	ACSL3_HUM	Unmodified	894590	0	749840	0	0	0	0	0	0
VLSEDAIR	DTYMK; DTYMK	P23919; H7C312	KTHY_HUMA	Unmodified	10283000	8505500	8735700	269890	64748	335520	0	0	0
VLSEDKEVLSAEVK	GCC2; GCC2	Q8IWJ2; B8ZZW2	GCC2_HUMA	Unmodified	489230	0	0	0	0	0	0	0	0
VLSGDLGQLPTGIR	PCK2; PCK2	Q16822; H0YM31	PCKGM_HUM	Unmodified	0	659620	680600	0	0	0	0	0	0
VLSGDLGQLPTGIRDFVEHSAR	PCK2; PCK2	Q16822; H0YM31	PCKGM_HUM	Unmodified	0	5841100	10280000	0	0	0	0	0	0
VLSGEFQIVNPHLLK	RRM1; RRM1	P23921; E9PL69	RIR1_HUMAN	Unmodified	1598800	1800600	1399900	0	0	0	0	0	0
VLSGTIHAGQPVK	EFTUD2	Q15029	USS1_HUMA	Unmodified	1463500	1914400	0	79039	66454	74782	0	0	0
VLSIGDGIAR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Unmodified	91219000	77280000	61521000	3882200	4248200	4336600	449270	704390	433880
VLSINGVDVTEAR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Deamidation (N)	1991500	1019000	1604900	0	0	0	0	0	0
VLSIWEER	RPRD1A; RPRD1A	Q96P16; A0A0C4	RPR1A_HUM	Unmodified	1388500	1364600	0	0	0	0	0	0	0
VLSKEFHLNESGDPSSK	SET; SET	Q01105; A0A0C4	SET_HUMAN	Unmodified	1070500	882770	878770	72813	0	36400	0	0	0
VLSLDDYFITEVEKEEKDPDSGKK	YLPM1; YLPM1; YL	P49750; F8VU51;	YLPM1_HUM	Unmodified	1542200	1498000	1673700	0	0	0	0	0	0
VLSMAPGLTSVEIIPFR	PAPSS2	O95340	PAPS2_HUM	Oxidation (M)	338180	227830	784230	0	0	0	0	0	0
VLSPEAVR	GLS; GLS; GLS	O94925; B8ZZA8	GLSK_HUMA	Unmodified	10323000	10528000	7026800	91264	120100	132590	0	0	0
VLSQPMPPTAGEAEQAADQQER	HSPBP1; HSPBP1; H	Q9NZL4; K7EMV	HPBP1_HUM	Oxidation (M)	1674900	1126800	1200100	0	0	0	0	0	0
VLSQQAASVVK	ADSL; ADSL; ADSL;	P30566; A0A7P0	PUR8_HUMA	Unmodified	3031000	2056700	2624700	0	0	127100	0	0	0
VLSRPNAQELPSMYQR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Oxidation (M)	12037000	11498000	11888000	580330	587910	0	144730	100590	103430
VLSRPNAQELPSMYQR	PHB2; PHB2; PHB2;	Q99623; F5GWA7	PHB2_HUMA	Oxidation (M);Deam	24037000	24841000	25210000	1796200	1618600	1673800	261770	214530	248590
VLSSIEQK	SFN	P31947	1433S_HUMA	Unmodified	128190000	125680000	135360000	4582100	3327900	4261400	0	0	0
VLSSIEQKSNEEGSEEKGPEVR	SFN	P31947	1433S_HUMA	Unmodified	5490500	5834100	5281600	0	0	0	0	0	0
VLSSIEQKSNEEGSEEKGPEVR	SFN	P31947	1433S_HUMA	Deamidation (N)	7729000	8271900	10136000	0	0	174120	0	0	0
VLSSMADAVLAR	OTC	P00480	OTC_HUMAN	Oxidation (M)	0	0	1773600	0	188760	224230	0	0	0
VLSVETPLSIQAHPNKELAEK	MPI; MPI; MPI; MPI	P34949; H3BNY8	MPI_HUMAN	Unmodified	1474800	0	0	0	0	0	0	0	0
VLSVPESTPFTAVLK	UFM1; UFM1	P61960; H0Y614	UFM1_HUMA	Unmodified	4713000	5400800	4376000	0	0	0	0	0	0
VLTAKASTDL	LPP; LPP	Q93052; A0A087	LPP_HUMAN	Unmodified	0	0	0	218550	301290	286200	947720	951590	137790
VLTEDEMGHPEIGDAIAR	FDPS; FDPS; FDPS; I	P14324; A0A087	FPPS_HUMA	Oxidation (M)	8191200	6704800	7258000	0	0	33596	0	0	0
VLTEFTR	IPO9	Q96P70	IPO9_HUMA	Unmodified	7967700	7239700	5013800	149360	63494	55791	10668	13943	0
VLTFDLTK	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	1009600	786830	860620	12585	0	0	0	0	0
VLTFDLTKYPDANPNPNEQ	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Unmodified	2493100	3107200	2759300	12446	0	0	0	0	0
VLTFDLTKYPDANPNPNEQ	SMC1A; SMC1A; SM	Q14683; G8JLG1;	SMC1A_HUM	Deamidation (N)	2070700	1363400	1494800	0	0	0	0	0	0
VLTGTPLRPGVSIVSGNTVLAAK	CHD8; CHD8; CHD8	Q9HCK8; A0A2R	CHD8_HUMA	Deamidation (N)	258370	383400	225430	0	0	0	0	0	0
VLTIDPTEFK	COPA; COPA; COPA	P53621; A0A3B3I	COPA_HUMA	Unmodified	2071300	1821700	1890600	0	35749	36709	0	0	0
VLTILEQIPGMVVVADK	PLBD2	Q8NHP8	PLBL2_HUM	Oxidation (M)	433040	259180	380840	0	0	0	0	0	0
VLTLGESWPVLVGR	KDM3A; KDM3A; K	Q9Y4C1; C9J7Q7	KDM3A_HUM	Unmodified	494310	608360	557930	0	0	0	0	0	0
VLTLSDDLER	EIF5	P55010	IF5_HUMAN	Unmodified	2136500	1241100	1651800	0	0	0	0	0	0
VLTLSERPLDFLDLERPPTTPQNEEIR	MFF; MFF; MFF	Q9GZY8; A0A0A	MFF_HUMAN	Unmodified	6013100	4337300	4771200	0	0	0	0	0	0
VLTLSERPLDFLDLERPPTTPQNEEIR	MFF; MFF; MFF	Q9GZY8; A0A0A	MFF_HUMAN	Deamidation (N)	1334400	505150	218250	0	0	0	0	0	0
VLTMAPGLITLEIVPFR	PAPSS1	O43252	PAPS1_HUM	Oxidation (M)	689310	147340	539890	0	0	0	0	0	0
VLTMPETCR	PSMD1; PSMD1; PSI	Q99460; A0A7P0	PSMD1_HUM	Oxidation (M)	735330	548490	961030	0	0	0	0	0	0
VLTPEEQLADKLR	EIF3J	O75822	EIF3J_HUMA	Unmodified	1650100	5066500	2055600	58170	63301	49470	0	7956.3	0
VLTPELYAELR	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Unmodified	207680000	208430000	195140000	1184900	1338400	1061200	618430	363390	408630
VLTPELYAELRAK	CKB; CKB; CKB	P12277; G3V4N7;	KCRB_HUM	Unmodified	1820600	1199400	1911000	730370	585750	346550	344640	230120	273050
VLTPTQVK	PEBP1	P30086	PEBP1_HUM	Unmodified	59273000	60923000	59532000	6267800	5653200	6834000	356540	331950	110090
VLTQEDFQK	SDAD1; SDAD1	Q9NVU7; E7EW0	SDA1_HUMA	Unmodified	688210	685270	963960	0	27219	0	0	0	0
VLTQPSQSAVR	COG5	Q9UP83	COG5_HUMA	Unmodified	731830	710520	0	95133	115680	91580	0	0	0
VLTSAFSR	SCYL1; SCYL1; SCY	Q96KG9; H0YCI6	SCYL1_HUM	Unmodified	694480	931570	734840	46139	42440	42789	0	0	0
VLTSGIFETK	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1_HUM	Unmodified	3042600	2914300	1650600	0	62171	0	0	0	0
VLTTGYWPTQSATPK	CUL3; CUL3	Q13618; A0A087	CUL3_HUMA	Unmodified	900850	887390	612600	22782	21499	22299	0	0	0
VLTTSPSR	PHLDB1	Q86UU1	PHLB1_HUM	Unmodified	2451100	1558900	504990	0	0	0	0	0	0
VLTTTALSTVSSGVQR	CLASP2; CLASP2; C	O75122; E7EW49	CLAP2_HUM	Unmodified	2252000	1781300	2590000	0	0	0	0	0	0
VLVASATMDTAR	DHX16; DHX16; DH	O60231; Q5SQH5	DHX16_HUM	Oxidation (M)	1176500	917240	1267700	0	0	0	0	0	0
VLVASSVVAGESQKPELK	FMR1	Q06787	FMR1_HUMA	Unmodified	0	0	690500	0	0	0	0	0	0
VLVATNVAAR	DDX21; DDX50	Q9NR30; Q9BQ39	DDX21_HUM	Unmodified	3081500	4023000	3227300	14245	12251	11726	0	0	0
VLVDMSR	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB_HUMA	Oxidation (M)	0	0	6087400	0	377440	0	0	0	17981
VLVDQTTGLSR	ELAVL1	Q15717	ELAV1_HUM	Unmodified	46762000	38854000	38737000	1345500	1057800	1157400	86345	77428	85656
VLVDQTTGLSRGVAFIR	ELAVL1	Q15717	ELAV1_HUM	Unmodified	5232600	5304300	5186900	16169	0	0	0	0	0
VLVDSSFGQPTTQGEAR	CPSF1	Q10570	CPSF1_HUM	Unmodified	1630200	2796800	2167900	77860	138800	203590	0	0	0
VLVDVER	SNRNP70	P08621	RU17_HUMA	Unmodified	19867000	22741000	20197000	1100500	1050300	1150600	42266	32369	42986
VLVEATYNPNMPFKWNAQR	CCAR1; CCAR1; CC	Q8IX12; F5H3E1;	CCAR1_HUM	Oxidation (M);2 De	1612400	1588400	2482600	0	0	0	0	0	0
VLVEDTK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1810300	1830500	1488600	0	0	0	0	0	0
VLVEPDAGAGVAVMK	ECI1	P42126	ECI1_HUMA	Oxidation (M)	48234000	51964000	48006000	1454300	1349200	1097800	0	0	59962
VLVEQER	KIAA1217; KIAA121	Q5T5P2; Q5T5P1;	SKT_HUMAN	Unmodified	3557700	1673600	0	123130	111410	159700	0	0	0
VLVEQQDR	DDI2; DDI2; DDI2	Q5TDH0; H0YI90	DDI2_HUMA	Unmodified	1656400	2209800	2184000	122840	287830	0	0	0	0
VLVERSAAETVTK	HSPE1; HSPE1-MOB	P61604; S4R3N1;	CH10_HUMA	Unmodified	4416600	3368000	3530800	0	0	0	0	0	0
VLVFVMGK	PFN2; PFN2; PFN2	P35080; C9J2N0;	PROF2_HUM	Oxidation (M)	35692000	29410000	29002000	477100	467670	501670	29389	27263	23448
VLVGKNFEDVAFDEK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Unmodified	1187000	1215900	1141100	31112	33250	28924	0	0	0
VLVGKNFEDVAFDEK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Methyl (KR)	611780	581180	682450	10859	0	0	0	0	0
VLVGKNFEDVAFDEK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Deamidation (N)	7442200	7552600	7158600	81870	8205.3	26333	0	0	0
VLVGKNFEDVAFDEK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1_HUM	Methyl (KR);Deam	526460	506290	413960	0	0	0	0	0	0
VLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST	CLPP; CLPP	Q16740; M0R208	CLPP_HUMA	Unmodified	3771300	5253600	3196100	0	0	0	0	0	0
VLVIGATNRPDSLDPALR	NVL	O15381	NVL_HUMAN	Unmodified	754750	551160	726290	0	37579	0	0	0	0
VLVLAPTR	DDX21; DDX50	Q9NR30; Q9BQ39	DDX21_HUM	Unmodified	1273200	1102300	1270200	0	16551	15435	0	0	0
VLVLSQDYGK	SPTBN1; SPTBN1; S	Q01082; A0A087	SPTB2_HUM	Unmodified	1538100	1060600	1120900	0	37753	0	0	0	0
VLVLVPTR	DDX27; DDX27; DD	Q96GQ7; B7Z6D5	DDX27_HUM	Unmodified	1219400	1536700	1323500	0	7899.3	0	0	0	0
VLVNDAQK	TRIM28	Q13263	TIF1B_HUMA	Deamidation (N)	6071300	3943600	4766200	191350	177230	183690	0	0	0
VLVNDAQK	TRIM28	Q13263	TIF1B_HUMA	Unmodified	3960200	4755400	4018400	0	212290	0	0	0	0

VLVNDAQKVTEGQQER	TRIM28	Q13263	TIF1B_HUMA	Unmodified	3011600	3054200	2774200	0	87397	73960	0	0	0
VLVNDAQKVTEGQQER	TRIM28	Q13263	TIF1B_HUMA	Deamidation (N)	12831000	12341000	11724000	330230	679230	868530	0	0	0
VLVNDAQKVTEGQQERLER	TRIM28	Q13263	TIF1B_HUMA	Deamidation (N)	9024700	9826800	13506000	420270	325440	341380	0	33122	0
VLVPGIPGHHAAIKPAPPQTEQVESK	WDR43	Q15061	WDR43_HUM	Unmodified	2024000	2242400	2439200	0	0	0	0	0	0
VLVQNAAGSQEK	TLN1	Q9Y490	TLN1_HUMA	Unmodified	1273400	1129300	791430	0	0	0	0	0	0
VLVQNAAGSQEK	TLN1	Q9Y490	TLN1_HUMA	Deamidation (N)	509860	467800	0	0	0	0	0	0	0
VLVTGATGLLGR	MAT2B; MAT2B	Q9NZL9; E5RJR3	MAT2B_HUM	Unmodified	6918200	5539500	5587100	278230	205720	201680	45655	44690	38780
VLVTVFR	ELP1; ELP1; ELP1; I	O95163; A0A6Q8	ELP1_HUMA	Unmodified	390900	542790	402600	0	0	10620	0	0	0
VLVVDQLSMR	STXBP1; STXBP1; S	P61764; A0A1B0	STXB1_HUM	Oxidation (M)	2198900	0	0	0	0	0	0	0	0
VLVWDLR	BUB3; BUB3	O43684; J3QT28	BUB3_HUMA	Unmodified	1221100	1131600	1070400	0	0	0	0	0	0
VLVYNNTSIVQDEILAHR	POLR1C; POLR1C; I	O15160; A0A2R8	RPAC1_HUM	Deamidation (N)	0	1151000	0	0	0	0	0	0	0
VLYPNDNFFEGK	PYGB; PYGM; PYGI	P11216; P11217; 1	PYGB_HUMA	2 Deamidation (N)	486760	1006200	792090	24028	0	0	0	0	0
VLYPNDNFFEGKELR	PYGB; PYGM; PYGI	P11216; P11217; 1	PYGB_HUMA	Deamidation (N)	2306400	4344700	799810	0	15732	0	0	0	0
VLYPNDNFFEGKELR	PYGB; PYGM; PYGI	P11216; P11217; 1	PYGB_HUMA	2 Deamidation (N)	2888200	1300000	2945800	0	0	0	0	0	0
VLYVQDSLEGEAR	PREP; PREP	P48147; A0A499	PPCE_HUMA	Unmodified	0	1351400	1562200	0	77730	0	0	0	0
VLYWPR	CHDH; CHDH; CHDI	Q8NE62; C9JYW4	CHDH_HUM	Unmodified	447630	646130	350060	24089	33886	29066	0	0	0
VLYYSATKNGILYR	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1_HUM	Deamidation (N)	2788200	1889000	2474100	0	0	0	0	0	0
VLYYTGR	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM_HUM	Unmodified	3179700	2603600	3769400	0	0	55357	0	0	0
VMAAENIPENPLK	STAT1; STAT1; STA	P42224; A0A669	STAT1_HUM	Oxidation (M)	1541100	2250600	1951400	0	0	0	0	0	0
VMDIPYLNLEGPDLQPK	PARN; PARN; PARN	O95453; A0A494	PARN_HUMA	Oxidation (M)	1512300	665130	1263100	0	0	0	0	0	0
VMEAFEQAER	BCKDHA; N/A	P12694; F5H5P2	ODBA_HUM	Oxidation (M)	3303200	2346800	2980200	0	450660	247790	0	0	0
VMEEIRNLTVKDFR	NFYC; NFYC; NFYC	Q13952; E9PQR2	NFYC_HUMA	Oxidation (M)	0	1114000	826030	0	0	0	0	0	0
VMEETPNILR	RAB11FIP1; RAB11I	Q6WKZ4; E7EX4	RFIP1_HUMA	Oxidation (M)	1836100	425630	427860	0	0	0	0	0	0
VMEHFIK	HSPA5; HSPA5; HSP	P11021; A0A7P01	BIP_HUMAN	Oxidation (M)	3089000	0	2325800	0	0	0	0	0	0
VMEIVDADEK	SUPT16H	Q9Y5B9	SP16H_HUM	Oxidation (M)	4860400	4944800	5577200	0	0	0	0	0	0
VMEIVDADEKVR	SUPT16H	Q9Y5B9	SP16H_HUM	Oxidation (M)	7866000	5557900	9002000	0	0	0	0	0	0
VMEKPSPLLVGREFVR	G3BP1; G3BP2; G3B	Q13283; Q9UN86	G3BP1_HUM	Oxidation (M)	710440	0	1110300	0	0	0	0	0	0
VMHMVLTTSR	N/A	N/A	N/A	2 Oxidation (M)	487430	277610	366930	0	0	10451	0	0	0
VMIEPSGPIHVPK	NPNT; NPNT; NPNT	Q6UXI9; D6RH31	NPNT_HUMA	Oxidation (M)	352590	1026400	0	200740	204160	184430	26332	47592	0
VMILITDGK	COL12A1; COL12A1	Q99715; D6RGG3	COCA1_HUM	Oxidation (M)	0	0	0	26644	28556	27704	0	0	0
VMKFSVSPVVR	EEF2	P13639	EF2_HUMAN	Oxidation (M)	1985500	2200700	2201800	153750	148150	185310	0	0	0
VMKGVDDLDFFIGDEAIEKPTYATK	ACTR3	P61158	ARP3_HUMA	Oxidation (M)	1650900	2327000	1711600	0	0	0	0	0	0
VMLALPSVR	PPP1R7; PPP1R7; PI	Q15435; H7C3Q5	PP1R7_HUM	Oxidation (M)	825420	667110	1106500	84291	0	0	0	0	0
VMLEDGR	PABPC4; PABPC4; I	Q13310; B1ANR0	PABP4_HUM	Oxidation (M)	996560	1416700	1662600	0	0	18882	0	0	0
VMLESFIDTQK	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	Oxidation (M)	1401600	996510	1893000	0	0	0	0	0	0
VMLESFIDTQKFSVMR	MCM2; MCM2	P49736; H0Y8E6	MCM2_HUM	2 Oxidation (M)	895150	1375500	0	0	0	0	0	0	0
VMLETPEYR	CYRIA; CYRIB; CYR	Q9H0Q0; Q9NUQ	CYRIA_HUM	Oxidation (M)	6955100	8070300	8681400	596400	366890	435270	0	0	0
VMLGETNPADSKPGTIR	NME2P1; NME1; NM	O60361; P15531;	NDK8_HUMA	Oxidation (M);2 M	1643800	0	1745000	0	0	0	0	0	0
VMLGETNPADSKPGTIR	NME2P1; NME1; NM	O60361; P15531;	NDK8_HUMA	Oxidation (M)	65633000	68656000	53238000	1311700	1544700	1355100	125080	114570	117600
VMLGETNPADSKPGTIR	NME2P1; NME1; NM	O60361; P15531;	NDK8_HUMA	Oxidation (M);Metl	26408000	29560000	28946000	715890	682220	889480	0	0	0
VMLYPSR	RPL35A	P18077	RL35A_HUM	Oxidation (M)	3130500	3012100	3206000	100460	62032	58275	0	0	0
VMLYPSRI	RPL35A	P18077	RL35A_HUM	Oxidation (M)	31571000	28091000	35078000	1177900	1210400	1180900	0	0	269040
VMPLIIQGFK	SEPHS1; SEPHS1; SI	P49903; Q5T5U6;	SPS1_HUMA	Oxidation (M)	1501100	516460	0	0	0	0	0	0	0
VMQEEIFGPILPIVPVK	ALDH3A2; ALDH3A	P51648; A0A5F92	AL3A2_HUM	Oxidation (M)	6779900	12389000	7014200	0	0	0	0	0	0
VMQPLVQQPILPVVK	RBM26	Q5T8P6	RBM26_HUM	Oxidation (M)	1371100	1188300	1110800	42027	0	64862	0	0	0
VMQQQQQTTQQQLPQK	SF3A1	Q15459	SF3A1_HUM	Oxidation (M)	3033600	3369300	3507700	137220	247360	173640	0	0	0
VMRVEYHFLSPYVSPK	TFRC; TFRC	P02786; G3V0E5	TFR1_HUMA	Oxidation (M)	1810300	853640	870880	0	0	0	0	0	0
VMSKSSAEVIAQAR	DPYSL2; DPYSL2	Q16555; A0A1C7	DPYL2_HUM	Oxidation (M);Metl	1544400	1417500	1865300	0	0	0	0	0	0
VMSQEIQEQLHK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Oxidation (M)	2768700	3190300	3016400	0	0	0	0	0	0
VMTIPYQPMPASSPVICAGGQDR	PCBP1	Q15365	PCBP1_HUM	2 Oxidation (M)	7692800	6622500	7682300	466380	501700	522830	71010	39159	46341
VMTVSFHK	HDAC3; HDAC2; HI	O15379; Q92769;	HDAC3_HUM	Oxidation (M)	558430	612300	0	26119	0	0	0	0	0
VMVLDFVTPTPLGTR	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1_HUM	Oxidation (M)	4743400	3545200	3434800	20231	0	0	0	12753	13545
VMVQPINLIFR	SNRPE	P62304	RUXE_HUMA	Oxidation (M)	30370000	23672000	26072000	31239	27265	24791	0	0	41474
VMVQPINLIFR	SNRPE	P62304	RUXE_HUMA	Oxidation (M);Deai	328840	714380	719560	0	0	0	0	0	0
VMVTNVTSLLK	TLN2; TLN1; TLN2;	Q9Y4G6; Q9Y490	TLN2_HUMA	Oxidation (M)	2460000	3396200	2087100	45366	42188	0	17990	10655	15046
VNAELQAR	AIFM1; AIFM1; AIFM	O95831; E9PMA0	AIFM1_HUM	Unmodified	3268500	3638100	3190300	153880	204510	208170	0	0	0
VNAGDQPGADLGPLITPQAK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA_HUM	Unmodified	1092600	1056300	1449100	0	0	0	0	0	0
VNAGDQPGADLGPLITPQAK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA_HUM	Deamidation (N)	0	0	0	84474	120390	85798	0	0	0
VNAIEHVIIPR	ATP6V1D; ATP6V1E	Q9Y5K8; G3V2S6	VATD_HUM	Unmodified	182800	218530	363910	0	0	0	0	0	0
VNEMIIGGGMAFTFLK	PGK1	P00558	PGK1_HUMA	2 Oxidation (M)	1166700	2400100	1042600	0	0	0	0	0	0
VNEMIIGGGMAFTFLK	PGK1	P00558	PGK1_HUMA	2 Oxidation (M);De	886980	327030	453040	0	0	0	0	0	0
VNEVGVDVNR	SUPT6H	Q7KZ85	SPT6H_HUM	Deamidation (N)	0	4128400	0	0	0	0	0	0	0
VNEVNQFAAK	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1_HUM	Unmodified	493550	0	715460	0	0	0	0	0	0
VNEYVDAR	UHRF1; UHRF1; UHI	Q96T88; A0A087	UHRF1_HUM	Unmodified	432890	662990	0	0	0	86521	0	0	0
VNFAMNVGK	PKM; PKM; PKM	P14618; B4DNK4	KPYM_HUMA	Oxidation (M)	8358800	16162000	16487000	258210	503850	305000	0	0	0
VNFAMNVGK	PKM; PKM; PKM	P14618; B4DNK4	KPYM_HUMA	Oxidation (M);Deai	0	828110	1216900	0	0	0	0	0	0
VNFLPEIITLSK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	558850	472660	705530	0	0	0	0	9622	0
VNFPENGFLSPDKLSLLEK	DNAJA1	P31689	DNJA1_HUM	Deamidation (N)	4180000	2795400	2249200	0	0	0	0	0	0
VNFSEEGETEEDDQDSSHSSVTTVK	TOR1AIP1; TOR1AIP	Q5JTV8; A0A0A0	TOIP1_HUM	Unmodified	867110	1746800	1210700	220020	0	0	0	0	0
VNFTVDQIR	EEF2	P13639	EF2_HUMAN	Deamidation (N)	13694000	13225000	11133000	287700	269020	309860	0	16768	16695
VNFTVDQIR	EEF2	P13639	EF2_HUMAN	Unmodified	30024000	42202000	32049000	1902700	1681900	1938600	390340	316800	116260
VNGDASPAAAESGAK	MARCKS	P29966	MARCS_HUM	Deamidation (N)	1761100	1206600	1334500	0	0	0	0	0	0
VNGGLNLSR	PPM1G	O15355	PPM1G_HUM	Deamidation (N)	2406000	3145100	2346000	0	0	143090	0	0	0
VNGLQLQLNEEVMVADDLESEREKLK	UACA; UACA; UAC;	Q9BZF9; H0YNH	UACA_HUM	Oxidation (M);3 M	376150	199920	0	0	0	0	0	0	0
VNGRPLEMIEPR	RPS16; RPS16; RPS1	P62249; M0R1M5	RS16_HUMA	Oxidation (M);Deai	7622800	6563000	5917000	233360	160160	258330	0	0	0
VNGSLAVSR	PPM1A; PPM1B; N//	P35813; O75688;	PPM1A_HUM	Deamidation (N)	8327700	10397000	8041700	641500	0	741700	0	0	0
VNHFVPEAGSR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	2008200	1703400	0	384440	336570	434230	169550	182680	0
VNHFVPEAGSR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Deamidation (N)	4695400	3266800	3833500	577010	559510	555220	256210	198310	218590
VNIAFNYDMPEDSDTYLHR	DDX39B; DDX39B; I	Q13838; Q5STU3;	DX39B_HUM	Oxidation (M)	14719000	14301000	14472000	0	0	0	0	0	0
VNIAFNYDMPEDSDTYLHR	DDX39B; DDX39B; I	Q13838; Q5STU3;	DX39B_HUM	Deamidation (M);Deai	2236200	1349000	0	0	84706	42349	0	0	0
VNIIGEVVDQGSTNLK	ADD3	Q9UEY8	ADDG_HUM	Deamidation (N)	0	0	0	40166	23177	0	36913	21530	0
VNIIPLIAK	SEPTIN14; SEPTIN7;	Q6ZU15; Q16181;	SEP14_HUM	Unmodified	2002200	1459300	1575800	36560	27849	31628	0	0	0
VNIKPQVDR	AHCY	P23526	SAHH_HUMA	Unmodified	817800	1169600	1022300	0	0	0	0	0	0
VNILEVASGAVLR	TBL3	Q12788	TBL3_HUMA	Unmodified	608890	162560	183000	0	0	0	0	0	0
VNILFDFVK	EIF5	P55010	IF5_HUMAN	Unmodified	399370	339110	451450	0	0	0	0	8303.5	0
VNILSDMHLR	FXR1; FXR1; FXR1;	P51114; C9JY20;	FXR1_HUMA	Oxidation (M)	1009600	984050	1559400	29854	0	0	0	0	0
VNIVFNYDMPEDSDTYLHR	DDX39A	O00148	DX39A_HUM	Oxidation (M);Deai	2478900	0	0	0	0	0	0	0	0
VNIVFNYDMPEDSDTYLHR	DDX39A	O00148	DX39A_HUM	Oxidation (M)	187840	0	2618500	0	0	0	0	0	0
VNIVKGNENPRNR	TASOR2; TASOR2	Q5VWN6; A0A2R	TASO2_HUM	2 Deamidation (N)	1086700	683420	598770	11308	0	0	0	0	0
VNLAELFK	PRDX5	P30044	PRDX5_HUM	Unmodified	1609900	2548300	1701900	39852	0	0	0	0	0
VNLGVGAYR	GOT1	P17174	AATC_HUMA	Unmodified	737860	0	534540	0	0	0	0	0	0
VNLLSFTGSTQVGK	ALDH7A1; ALDH7A	P49419; A0A1B0	AL7A1_HUM	Unmodified	1100900	921210	1043500	0	0	0	0	0	0
VNLLSVLEAAK	PRXL2A	Q9BRX8	PXL2A_HUM	Unmodified	335320	283190	326390	0	0	0	0	0	0
VNLLYSR	ECH1; ECH1	Q13011; M0R248	ECH1_HUMA	Unmodified	13952000	12022000	4576900	197170	170750	83388	0	0	6036
VNLSAAQTLR	PDCD10; PDCD10; P	Q9BUL8; H7C5M	PDC10_HUM	Unmodified	5255600	4581000	2814400	0	0	0	0	0	0
VNMEDLR	SEPTIN8; SEPTIN6; !	Q92599; Q14141;	SEPT8_HUM	Oxidation (M)	3346700	3180400	3810100	0	195520	0	0	0	0
VNMPPAVDPAEFFVLMER	MRPS26	Q9BYN8	RT26_HUMA	2 Oxidation (M)	3356600	2745200	3698300	0	0	0	0	0	0
VNMPPAVDPAEFFVLMER	MRPS26	Q9BYN8	RT26_HUMA	2 Oxidation (M);De	190410	242940	182690	0	0	0	0	0	0
VNNASLIGLGYTQTLRPGVK	VDAC3	Q9Y277	VDAC3_HUM	Deamidation (N)	3889900	4122500	4460900	0	0	0	0	0	0
VNNASLIGLGYTQTLRPGVK	VDAC3	Q9Y277	VDAC3_HUM	2 Deamidation (N)	1200300	490610	0	0	0	0	0	0	0
VNNSSLIGLGYTQTLKPGIK	VDAC1	P21796	VDAC1_HUM	Deamidation (N)	926800	3560500	3277400	0	0	0	0	0	0
VNNSSLIGLGYTQTLKPGIK	VDAC1	P21796	VDAC1_HUM	2 Deamidation (N)	1051700	949110	0	0	0	0	0	0	0
VNNSSLIGVGYTQTLRPGVK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2_HUM	Deamidation (N)	16250000	15766000	17446000	377510	65477	120200	0	22506	0
VNNSSLIGVGYTQTLRPGVK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2_HUM	2 Deamidation (N)	12017000	14057000	12773000	20868	0	0	0	0	0
VNNSSLIGVGYTQTLRPGVK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2_HUM	Unmodified	955620	960010	845780	0	0	0	0	0	0
VNNTDEMARLIR	STARD9	Q9P2P6	STAR9_HUM	Oxidation (M);Metl	0	0	0	0	0	0	0	0	0
VNPALAELNLR	RNH1; RNH1; RNH1	P13489; E9PIK5;	RINI_HUMAN	Unmodified	7087000	4764200	5616900	219340	256390	202220	0	0	39485
VNPDLQVEVKPSIR	ZFR	Q96KR1	ZFR_HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
VNPIQGLASK	COX4I1	P13073	COX41_HUM	Unmodified	3800100	3892700	3085500	0	0	0	0	0	0
VNPSVNPSISPAHGVAR	NCOA1; NCOA1	Q15788; B5MCN7	NCOA1_HUM	Unmodified	592180	721060	729480	166780	133410	184050	0	0	0
VNPVEYSIVMEFLDPGGPMMK	SMPD4; SMPD4; SM	Q9NXE4; A0A7P0	NSMA3_HUM	3 Oxidation (M)	262980	180760	92297	0	0	0	0	0	0
VNPVTLETVLR	MYO19; MYO19; M	Q96H55; A0A087	MYO19_HUM	Unmodified	425250	352000	600230	0	0	0	0	0	0
VNQAIWLLCTGAR	RPS5; RPS5; RPS5; I	P46782; M0R0R2	RS5_HUMAN	Unmodified	346600	206830	293020	0	0	0	0	0	0
VNQIGSVTEAIQACK	ENO2; ENO2	P09104; F5H0C8	ENOG_HUM	Unmodified	3702200	3243900	2885900	0	0	0	0	0	0
VNQIGSVTEAIQACK	ENO2; ENO2	P09104; F5H0C8	ENOG_HUM	Deamidation (N)	842530	737770	984020	0	0	0	0	0	0
VNQIGSVTESLQACK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	26543000	24786000	22492000	231850	206090	206180	87482	66883	75675
VNQPASFAIR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1298400	2242800	0	180820	256710	284710	0	22985	0
VNQSALEAVTPSPSFQQR	APPL1	Q9UKG1	DP13A_HUM	Deamidation (N)	658420	743710	814410	26486	0	33726	0	0	0
VNSLPEVLPILNSDEPK	ITGA6	P23229	ITA6_HUMAN	2 Deamidation (N)	155760	0	0	0	0	0	0	0	0
VNSVSSGLAEEDLETLLQSR	CLYBL; CLYBL; CL	Q8N0X4; Q5JVC2	CLYBL_HUM	Deamidation (N)	382620	342310	144030	0	0	0	0	0	0
VNTELMK	TPP1; TPP1; TPP1; T	O14773; A0A2R8	TPP1_HUMA	Oxidation (M)	8564900	6604600	6924000	97630	41420	0	0	0	0
VNTLIRPDGIEK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A_HUM	Unmodified	3539300	4177400	2374800	0	0	0	0	0	0
VNTLIRPDGIEKK	RPL23A; RPL23A; R	P62750; K7EMA7	RL23A_HUM	Unmodified	489920	728240	623160	0	14531	0	0	0	0
VNTPTTTVYR	TARS1	P26639	SYTC_HUMA	Unmodified	1329400	1223100	1621400	0	0	0	0	0	0
VNTQDFR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2_HUMAN	Unmodified	973140	0	1009400	76475	68522	0	0	0	0
VNVDAVGGEALGR	HBD; HBD; HBD	P02042; E9PEW8	HBD_HUMAN	Unmodified	25746000	23847000	23940000	295500	250820	245620	0	0	0
VNVDKVLER	VAMP3; VAMP2; V/	Q15836; P63027;	VAMP3_HUM	Unmodified	631510	582080	644680	0	37337	76964	0	0	0
VNVDKVLERDQK	VAMP3; VAMP2; V/	Q15836; P63027;	VAMP3_HUM	Unmodified	1487300	1697000	1968800	111670	124240	101540	0	0	11323
VNVDPEDLIPK	BOP1	Q14137	BOP1_HUMA	Unmodified	0	844290	552040	0	10880	0	0	0	0
VNVEAPDVNLEGLGGK	AHNAK	Q09666	AHNK_HUMA	Unmodified	223360	151340	315410	32158	29726	0	0	0	21037
VNVEDAGGETLGR	HBG2; HBG1; N/A	P69892; P69891;	HBG2_HUMA	Unmodified	5274200	5878800	4543100	115500	68815	140760	0	0	0
VNVEHMTEK	PFKL	P17858	PFKAL_HUM	Oxidation (M)	294810	289330	386610	0	0	16537	0	0	0

VNVNKQLEAEFK	N/A	N/A	N/A	Methyl (KR);2 Dea	941900	2146100	1272200	0	34410	0	0	0	0
VNVPEESRNGETSPR	ADD3	Q9UEY8	ADDG	HUM/	Deamidation (N)	0	0	0	296330	217560	260100	0	0	0
VNVPGSQAQLK	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	1177800	1252500	1609400	0	0	0	0	0	0
VNVPIMVTETSGR	GTF2A1L; STON1-G	Q9UNN4; Q53S48	TF2AY	HUM	Oxidation (M)	0	1462700	0	0	0	0	0	0	0
VNVTGIYR	MCM4; MCM4; MCM	P33991; A0A3B3I	MCM4	HUM	Unmodified	5440900	4151800	0	0	0	0	0	0	0
VNWATTPSSQKK	TIA1; TIAL1; TIA1; T	P31483; Q01085;	TIA1	HUMA	Unmodified	923110	766660	0	28659	23499	26519	0	0	0
VNYDTTESK	SNRNP70; SNRNP70	P08621; M0QYR	RU17	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VNYDTTESKLR	SNRNP70; SNRNP70	P08621; M0QYR	RU17	HUMA	Unmodified	1150100	1115000	1120300	77643	84652	79341	0	0	0
VPADLGAEAGLQQLLGALR	SPR	P35270	SPRE	HUMA	Unmodified	134400	13153	62970	0	0	0	0	0	0
VPADTEVVCAPPTAYIDFAR	TPI1	P60174	TPIS	HUMA	Unmodified	100230000	90194000	92854000	115300	141550	94184	47111	52232	70981
VPAEGLEEVLTTPETVLTGHTEK	CORO7; CORO7-PAI	P57737; A0A0A6	CORO7	HUM	Unmodified	0	1323200	1116300	0	0	0	0	0	0
VPAFLDLFMQSLFKPGAR	NELFCD; NELFCD;	Q8IXH7; H0UI80;	NELFD	HUM	Oxidation (M)	1052600	990820	1121300	0	0	0	0	0	0
VPAINVNDSVTK	AHCY	P23526	SAHH	HUMA	Unmodified	1939600	1879600	1607200	0	91592	125180	0	0	0
VPAINVNDSVTK	AHCY	P23526	SAHH	HUMA	Deamidation (N)	3782500	3650700	3684600	141080	121820	0	0	0	0
VPAQSESVR	VASP; VASP	P50552; K7EM16	VASP	HUMA	Unmodified	2968700	3737600	0	278810	339200	321730	0	0	0
VPASETSPGPPPMGPPPSSK	SRA1	Q9HD15	SRA1	HUMA	Oxidation (M)	301340	377990	328110	20892	0	0	28449	0	0
VPCTPVAR	DCAF7	P61962	DCAF7	HUM	Unmodified	467370	653720	523950	0	23706	0	0	0	0
VPDFSEYR	UQCRFS1P1; UQCRI	P0C7P4; P47985	UCRIL	HUM	Unmodified	1490600	1551000	1512400	70467	0	73777	0	0	0
VPDLKDLDPIGK	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	2109900	1429100	0	64638	50153	41551	0	0	0
VPDSTYEMIGGLDK	PSMC5; PSMC5; PS	P62195; J3QQM1;	PRS8	HUMA	Oxidation (M)	1003800	701180	0	0	0	0	0	0	0
VPDVLVADPPIAR	GANAB; GANAB	Q14697; F5H6X6	GANAB	HUM	Unmodified	9003100	7232800	7343000	168910	486070	447360	0	0	0
VPDVQDGVR	PLEC; PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	1946600	733220	1963200	145050	213600	142610	0	0	0
VPEEEKDTNVQVLMVLGAGR	PRMT5; PRMT5; PR	O14744; H0YJX6;	ANM5	HUM/	Oxidation (M)	0	0	325370	0	0	0	0	0	0
VPEGLLKDLLPGPVTLVMER	YRDC	Q86U90	YRDC	HUM/	Oxidation (M)	87616	101520	89243	0	0	0	0	0	0
VPEGVAGAPNEAALLALMER	RBM47; RBM47; RB	A0AV96; D6RFL5	RBM47	HUM	Oxidation (M)	0	0	4535400	70551	50362	20416	0	0	20115
VPELFANR	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1	HUMA	Unmodified	836730	890360	684200	0	56016	0	0	0	0
VPELFANRGGR	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1	HUMA	Deamidation (N)	1044800	588880	1331000	0	34716	100900	0	0	0
VPEMKLPEMKLPEVK	PRX; PRX; PRX	Q9BXM0; A0A6Q	PRAX	HUMA	Methyl (KR)	547560	0	0	0	0	0	0	0	0
VPESIKNALVP	BPNT1	O95861	BPNT1	HUM	Deamidation (N)	961500	882050	862450	50104	24016	29624	0	0	0
VPESIKNALVP	BPNT1	O95861	BPNT1	HUM	Unmodified	569870	661220	636590	18490	0	27053	0	0	0
VPETVADAR	FDX1	P10109	ADX	HUMA	Unmodified	1289800	1412800	1266900	0	0	63101	0	0	0
VPEVPTAPATDAAPK	SEPTIN9; SEPTIN9	Q9UHD8; K7EJ51	SEPT9	HUM	Unmodified	5722000	6729400	5442200	165920	187850	153630	0	0	0
VPEWVDTVK	RPS19; RPS19; RPS1	P39019; M0QYF7	RS19	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VPFSLLR	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	3055900	3891300	3961200	533500	451870	474140	158480	101530	102740
VPFSPGPAPPPHMGELDQER	GIGYF2; GIGYF2; GI	Q6Y7W6; I1E4Y6	GGYF2	HUM	Oxidation (M)	795630	991820	1210200	0	0	0	0	0	0
VPGATMLLAK	ALDH6A1	Q02252	MMSA	HUM	Oxidation (M)	5636100	2332600	4990100	345300	330260	259440	0	0	0
VPGGLQGSQDR	YLPM1; YLPM1	P49750; H0YIQ2	YLPM1	HUM	Unmodified	0	0	523760	0	0	0	0	0	0
VPGIDATTK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	138430	0	175560	0	0	0
VPGISSIEQGMTGLK	YTHDF3; YTHDF3;	Q7Z739; A0A087	YTHD3	HUM	Oxidation (M)	0	992970	758730	0	0	0	0	0	0
VPGKDTVTKDNGIR	HADHB; HADHB	P55084; F5GZQ3	ECHB	HUMA	Methyl (KR);Deam	0	0	0	0	0	0	0	0	0
VPGLYVIDSIVR	SCAF4; SCAF8; SCA	O95104; Q9UPN6	SCAF4	HUM	Unmodified	668420	637810	857870	0	0	0	0	0	0
VPGPEAAPR	PAXX	Q9BUH6	PAXX	HUM/	Unmodified	1357500	1419800	0	45772	43290	60609	0	0	0
VPGSQLTLGYMEEHGFTEPILVPK	PHF2	O75151	PHF2	HUMA	Oxidation (M)	2546900	3535100	6100000	0	0	0	0	0	0
VPGTSTSATLTGLTR	FN1; FN1	P02751; H0Y7Z1	FINC	HUM	Unmodified	4904800	3811700	3998400	341520	324590	315480	0	69211	43215
VPIDGPPIDIGR	IGF2R	P11717	MPRI	HUMA	Unmodified	3517700	1970100	1708800	42570	0	0	0	0	0
VPIILVGNKSDLR	RHOT2; RHOT2; RH	Q8IXI1; I3L2C6;	MIRO2	HUM	Unmodified	971750	1260400	1041000	0	0	0	0	0	0
VPIILVGNKSDLR	RHOT2; RHOT2; RH	Q8IXI1; I3L2C6;	MIRO2	HUM	Deamidation (N)	551910	2070500	1768200	0	0	27004	0	0	0
VPINESFISMVIGR	WASHC5; WASHC5;	Q12768; E7EQI7;	WASC5	HUM	Oxidation (M)	1410900	1129200	695510	0	0	0	0	0	0
VPLALFALNR	PEPD; PEPD; PEPD;	P12955; A0A494	PEPD	HUMA	Unmodified	1255700	1829000	962870	0	0	0	0	0	0
VPLAPITDPQQLQLSPLK	RRM2; RRM2	P31350; A0A286	RIR2	HUMA	Unmodified	3974700	3095700	5026300	0	0	0	0	0	0
VPLDEALQR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Unmodified	2253300	2084100	1679100	50591	204020	194450	0	0	0
VPLEDLSEDPVVGHLGTSTEEGKK	METTL1; METTL1	Q9UBP6; H0YIH0	TRMB	HUM	Unmodified	753960	947240	620130	0	0	0	0	0	0
VPLFSPNFSEK	ELAC2; ELAC2; ELA	Q9BQ52; E7ES68	RNZ2	HUMA	Unmodified	2163800	0	1209900	0	0	0	0	0	0
VPLHQVPYAVK	NOL6; NOL6	Q9H6R4; A0A0A	NOL6	HUMA	Unmodified	848090	798940	676110	0	0	0	0	0	0
VPLPGPLFDALPR	INPP4A; INPP4A	Q96PE3; B8ZZB2	INP4A	HUM	Unmodified	973710	870160	827970	0	0	0	0	0	0
VPLPSLSPTMQAGTIAR	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2	HUMA	Oxidation (M)	5543500	5592100	5021500	114320	110340	126170	0	0	0
VPLSAYER	SRRM2	Q9UQ35	SRRM2	HUM	Unmodified	11339000	11622000	8325800	0	591060	591360	106770	0	139400
VPLSPLSLLAGPADAR	CRTC2; CRTC2; CR	Q53ET0; Q5T4K5	CRTC2	HUM	Unmodified	208710	291010	171380	0	0	0	0	0	0
VPLVAPEDLR	PRMT5; PRMT5; PR	O14744; H0YJX6;	ANM5	HUM	Unmodified	2494300	1678800	2433200	46199	47274	44403	0	0	0
VPLVAPEDLRDDIIENAPTTHTEEYSGEEK	PRMT5; PRMT5; PR	O14744; H0YJX6;	ANM5	HUM	Unmodified	2517700	1616200	3027900	0	0	0	0	0	0
VPMGSGEQEAAVPVTWTEIFSGK	PTPN23; PTPN23	Q9H3S7; C9JD91	PTN23	HUM	Oxidation (M)	621190	579830	0	0	0	0	0	0	0
VPNLPSFK	AP3S1	Q92572	AP3S1	HUM	Unmodified	919850	591320	578390	0	0	0	0	0	0
VPNSNPPEYEFFWGLR	MAGED2; MAGED2;	Q9UNF1; Q5H907	MAGD2	HUM	Unmodified	159830	135870	259840	0	0	0	0	0	0
VPNSNPPEYEFFWGLR	MAGED2; MAGED2;	Q9UNF1; Q5H907	MAGD2	HUM	Deamidation (N)	0	416180	419990	0	0	0	0	0	0
VPNSVLWLLR	OGT	O15294	OGT1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VPPAINQFTQALDR	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUMA	Unmodified	674860	500490	562810	0	0	24959	0	52521	0
VPPAINQFTQALDR	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUMA	Deamidation (N)	0	0	723060	0	0	0	0	0	0
VPPPPPIAR	HNRNPC; HNRNPC;	P07910; G3V2Q1;	HNRPC	HUM	Unmodified	10815000	11901000	10252000	747150	667670	733560	161390	54599	153850
VPPPWLIAMQR	SF3B2; SF3B2; SF3B	Q13435; H0YEX5	SF3B2	HUM/	Oxidation (M)	4727800	2150600	5055600	73931	20775	0	0	0	0
VPPVIVLENQGLR	EMC9; EMC9	Q9Y3B6; H0YNH	EMC9	HUM	Unmodified	514640	0	724010	0	0	19656	0	0	0
VPPVPDYVAHPER	TSSC4; TSSC4; TSS	Q9Y5U2; C9JHT9	TSSC4	HUM	Unmodified	1322800	1250700	1782900	0	0	0	0	0	0
VPPVQVSPLIK	ATP5ME	P56385	ATP5I	HUM/	Unmodified	2280600	5675200	2137100	104320	85313	132980	41838	0	0
VPQFSFLDIFPK	RNF213; RNF213; RI	Q63HN8; A0A0A	RN213	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VPQIAFVITGGK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	2584800	2395700	3029600	103850	89276	103390	65657	56678	44426
VPQIEVETHK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	0	1823300	6670500	0	0	0	0	0	0
VPSALAPASQEPSPAASAEADGK	DNM1L	O00429	DNM1L	HUM	Unmodified	595180	507360	0	25764	0	0	0	0	0
VPSEGAYDIILPR	GPRC5C; GPRC5C;	Q9NQ84; A8MXZ	GPC5C	HUM	Unmodified	241710	289860	258410	0	9188.3	0	0	0	0
VPSGLPDLK	BGN	P21810	PGS1	HUMA	Unmodified	3197000	2820100	3160000	171790	92450	224260	113430	104460	126480
VPSLSVPWLQDR	RPP38	P78345	RPP38	HUM	Unmodified	737060	843360	614290	0	0	0	0	0	0
VPSLTTVPQTQGQTTAQK	KIFC1	Q9BW19	KIFC1	HUM	Unmodified	699640	946270	720490	0	0	0	0	0	0
VPSTEAEALASSLMGLFEK	GDI2; GDI2; GDI2; G	P50395; Q5SX87	GDIB	HUMA	Oxidation (M)	597710	358600	625790	0	0	0	0	0	0
VPSVAEAPQLRPAGTAAAK	KANK2	Q63ZY3	KANK2	HUM	Unmodified	422910	512250	351680	66843	0	0	278230	219220	196280
VPSYQALLR	COL6A1; COL6A1	P12109; A0A087	CO6A1	HUM	Unmodified	2757700	4085900	2668500	138600	174560	166610	76582	0	81590
VPTANVSVVDLTCR	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMA	Unmodified	36543000	34375000	23643000	316160	192730	311530	153610	119240	158410
VPTANVSVVDLTCR	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMA	Deamidation (N)	2909800	2265200	2004500	0	0	0	0	0	0
VPTATLVR	PTGFRN	Q9P2B2	FPRP	HUMA	Unmodified	1730200	1699200	1559000	74965	75278	78911	0	0	0
VPTIFPLR	THAP11	Q96EK4	THA11	HUM	Unmodified	509650	494540	619630	12534	0	0	0	0	0
VPTLAVPAISLPDDVR	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1	HUM	Unmodified	2586200	2456000	2116800	0	0	0	0	0	0
VPTLAVPAISLPDDVRR	DNMT1; DNMT1; DI	P26358; A0A7I2V	DNMT1	HUM	Unmodified	3361400	4242500	2545500	0	0	0	0	0	0
VPTPPGVPAIPGSVAMPR	PAX9	P55771	PAX9	HUMA	Oxidation (M)	690380	1124700	672370	18982	17249	18340	0	0	0
VPTQQEAYQVHVGPMR	CHDH	Q8NE62	CHDH	HUM/	Oxidation (M)	1498600	1484500	1524600	0	0	0	76537	0	0
VPTSMVLTK	MAVS	Q7Z434	MAVS	HUM	Oxidation (M)	358550	316860	337130	24040	0	32871	0	0	0
VPTWGPLR	ILF3; ILF3; ILF3	Q12906; K7EKJ9;	ILF3	HUMA	Unmodified	2299700	2076700	2379600	0	10069	0	0	0	0
VPVASPSAHNISSSGGAPDR	MARK2; MARK2; M	Q7KZI7; E7ETY4	MARK2	HUM	Unmodified	1758200	0	825940	62842	0	0	0	0	0
VPVATYTNSSQPFR	POLD2; POLD2; POL	P49005; C9JZD2;	DPOD2	HUM	Deamidation (N)	3613800	3838400	3482700	0	49958	63331	0	0	0
VPVAVQGEDTVQSLTQGDGVAK	C3	P01024	CO3	HUMA	Unmodified	2801300	2179400	2541000	0	0	0	23217	0	0
VPVDEFDGK	DDX1; DDX1; DDX1	Q92499; A0A087	DDX1	HUMA	Unmodified	0	1228700	0	56183	22419	45509	0	0	0
VPVDVAYQR	PLEC; EPPK1; PLEC	Q15149; P58107;	PLEC	HUMA	Unmodified	3647800	3337800	3229400	212450	207020	269180	36143	38015	0
VPVDVAYR	PLEC; EPPK1; PLEC	Q15149; P58107;	PLEC	HUMA	Unmodified	4407900	3567300	3958000	151990	151040	140510	30109	25519	0
VPVFRPMDLMVEASPR	PPP2R2A; PPP2R2A	P63151; A0A590	2ABA	HUMA	2 Oxidation (M)	1894200	2222600	2011600	31282	11847	45432	0	0	0
VPVGDQPKDIELQIR	DNM1L; DNM1L; DI	O00429; F8VZ52;	DNM1L	HUM	Unmodified	1123400	0	1428000	0	0	0	0	0	0
VPVGDQPKDIELQIRELILR	DNM1L; DNM1L; DI	O00429; F8VZ52;	DNM1L	HUM	Unmodified	1059800	162000	1027300	0	0	0	0	0	0
VPVLSWIHPESQATITR	MTMR1; MTMR1; M	Q13613; H0YDX3	MTMR1	HUM	Unmodified	0	306740	0	0	0	0	0	0	0
VPVPDER	OLA1; OLA1; OLA1	Q9NTK5; J3KQ32	OLA1	HUMA	Unmodified	3834700	4000000	4105400	43431	47775	51127	0	0	0
VPVSVNLLSK	RSL1D1; RSL1D1; R	O76021; J3QSV6;	RL1D1	HUM	Unmodified	704270	757830	865980	0	0	0	0	0	0
VPVTYLELLS	SH3GLB2; SH3GLB2	Q9NR46; B7ZC39	SHLB2	HUM	Unmodified	114110	95276	145830	0	0	0	12075	0	0
VPVVFVTNAGNILQHSK	HDHD5	Q9BXW7	HDHD5	HUM	Unmodified	600490	708100	465640	0	0	0	0	0	0
VPWIPLDPLAPDLAR	JMJD7; JMJD7	P0C870; B5MC20	JMJD7	HUM	Unmodified	117710	281360	223580	0	0	0	0	0	0
VPYLAVAR	LIG1; LIG1; LIG1; LI	P18858; B4E135;	DNLI1	HUM	Unmodified	1046300	937220	632200	0	0	0	0	0	0
VQAAAFGPGQTLLSSVHVLDLEAR	ALKBH7; ALKBH7	Q9BT30; M0QZI0	ALKB7	HUM	Unmodified	369170	0	0	0	0	0	0	0	0
VQAAGTDEVR	BTBD17	A6NE02	BTBDH	HUM	Unmodified	2079600	2494800	2779800	0	0	67441	0	0	0
VQAELDETK	YKT6; YKT6; YKT6;	O15498; A0A7I2V	YKT6	HUMA	Unmodified	1912600	2114100	851160	31633	36337	33126	0	0	0
VQAINVSSR	EFHD2	Q96C19	EFHD2	HUM	Unmodified	7179800	5736700	7651500	0	0	0	0	0	0
VQAINVSSRFEEEIKAEQEER	EFHD2	Q96C19	EFHD2	HUM	Unmodified	7600000	6087600	10498000	0	0	0	0	0	0
VQAMQPAFASK	UBR5; UBR5; UBR5	O95071; E7ET84;	UBR5	HUMA	Oxidation (M)	520090	420750	499880	0	0	0	0	0	0
VQANLGAPDINIEGLDAK	AHNAK	Q09666	AHNK	HUM	Unmodified	771330	378880	337880	55117	0	0	0	0	0
VQAQGPGLK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Unmodified	1762300	2477600	1338300	205990	61454	178100	0	0	0
VQAQVIQETIVPK	SF3A1	Q15459	SF3A1	HUM	Unmodified	5554300	4531200	4564200	119540	94227	127370	0	0	0
VQASLAANTFTITGHAETK	BTF3; BTF3; BTF3; I	P20290; H0Y9Y1;	BTF3	HUMA	Unmodified	727440	587130	893950	0	0	0	0	0	0
VQCPALIVHGEKDPLVPR	BPHL	Q86WA6	BPHL	HUMA	Unmodified	1411100	803760	0	0	44333	0	0	0	0
VQDAVQQHQQK	ATAD3A; ATAD3A	Q9NVI7; Q5SV16	ATD3A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VQDDEVGDGTTSVTVLAAELLR	CCT2; CCT2; CCT2	P78371; F5GWF6	TCPB	HUMA	Unmodified	2471400	316280	1545500	0	0	0	0	0	0
VQDGKPVILLFR	AAAS; AAAS; AAAS	Q9NRG9; F8VZ44	AAAS	HUM	Unmodified	269470	0	0	49539	29753	40895	0	0	0
VQDHSKAEDEWKAQVAR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	404590	637710	860250	0	0	0	0	0	0
VQDILSGIEKPQVSNIQAR	FNDC3B	Q53EP0	FND3B	HUM	Unmodified	721880	941320	801630	0	0	0	0	0	0
VQDLSAGGQGSLTDSGPER	TXLNA	P40222	TXLNA	HUM	Unmodified	0	603590	1366200	0	41948	38376	0	0	0
VQDTEISLQQQQQHLQLR	SYNE2; SYNE2; SYN	Q8WXH0; G3V5X	SYNE2	HUM	Unmodified	4743700	5258800	4255300	77110	0	0	0	0	0
VQDVVPQALLDQYLSMTDPSR	PPP4R1	Q8TF05	PP4R1	HUM/	Oxidation (M)	577980	299800	409220	0	0	0	0	0	0
VQEAVESMVK	FAM136A; FAM136/	Q96C01; C9J2Y4;	F136A	HUM	Oxidation (M)	21223000	4098900	24114000	0	106980	124160	0	0	54116
VQEDEFR	PTGFRN	Q9P2B2	FPRP	HUMA	Unmodified	0	0	0	0	89673	0	0	0	0
VQEEFDIDMDAPETER	PCP4	P48539	PCP4	HUMA	Oxidation (M)	3525900	4761000	4360700	0	0	0	0	0	0
VQEFDSGLLHWR	ARID1A; ARID1A; A	O14497; H0Y488;	AR11A	HUM	Unmodified	2662500	1753700	1847200	41975	17378	0	0	0	8267.7

VQEILDNVQVR	CCP110	O43303	CP110_HUM	Unmodified	0	0	0	0	0	0	0	0
VQEIPQKETTPFYPR	GMDS	O60547	GMDS_HUM	Unmodified	3552700	2690200	2697100	130030	133240	101190	0	0
VQEIQVVK	MRPL19; MRPL19	P49406; S4R3W9	RM19_HUM	Unmodified	678030	490720	523920	18921	0	0	0	0
VQEIQVVKLEK	MRPL19; MRPL19	P49406; S4R3W9	RM19_HUM	Unmodified	1520900	1241600	1424300	48563	62611	46733	0	0
VQELERELAQER	UBA5; UBA5; UBA5	Q9GZZ9; E7EWE	UBA5_HUM	Unmodified	6991800	5420100	5886800	1102300	1122300	1185000	78045	59547
VQELGHGCAALVTK	TLN1	Q9Y490	TLN1_HUM	Unmodified	941250	607930	590160	0	0	0	0	0
VQELPLAR	NFYC; NFYC; NFYC	Q13952; E9PQR2;	NFYC_HUM	Unmodified	5225100	4432500	3814100	44913	58889	49840	0	0
VQELQNLLK	KTN1; KTN1; KTN1	Q86UP2; G3V4Y7	KTN1_HUM	Unmodified	1203500	1177500	1388100	0	0	0	0	0
VQELQQQSAR	MYH14; MYH14	Q7Z406; M0QY43	MYH14_HUM	Unmodified	1613300	1734400	1648400	76610	0	0	0	0
VQEQDLR	CHD1L; CHD1L; CH	Q86WJ1; A0A494	CHD1L_HUM	Unmodified	473010	806060	734790	0	29133	29949	0	0
VQEQELK	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Unmodified	5389300	2939500	3914900	170400	220360	263760	0	0
VQEQELKSEFEQNLSEK	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Unmodified	3565700	2666800	3049300	133930	0	77607	0	0
VQEQELKSEFEQNLSEKLSEQELQFR	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Unmodified	4888600	2982100	4400100	0	0	0	0	0
VQEQELKSEFEQNLSEKLSEQELQFRR	IMMT; IMMT; IMMT	Q16891; B9A067;	MIC60_HUM	Unmodified	12223000	10797000	11698000	0	0	0	0	0
VQEQELTR	DSP	P15924	DESP_HUMA	Unmodified	4569100	6104200	4798200	0	0	0	0	0
VQEQVHTLLSQDQAQAAR	CKAP4	Q07065	CKAP4_HUM	Unmodified	2135700	2776500	5163900	67467	89364	90209	0	0
VQESADELQK	ARF5; ARF5	P84085; C9J1Z8	ARF5_HUMA	Unmodified	4386400	3977000	4479400	0	0	698270	0	0
VQESTKGPDEAK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR_HUM	Unmodified	4024300	5800300	4634100	143320	0	140510	0	0
VQEVLLK	HYOU1; HYOU1; HY	Q9Y4L1; E9PJ21;	HYOU1_HUM	Unmodified	4984000	5887700	5523100	88255	74868	0	0	0
VQFGVLSPDELKR	POLR2A; POLR2A	P24928; A0A6Q8I	RPB1_HUM	Unmodified	3049600	2848100	2561100	101990	145900	194830	0	21742
VQGETQPQR	MDC1; MDC1	Q14676; A2AB05	MDC1_HUM	Unmodified	1164700	1609000	1184600	28631	27191	27910	0	0
VQGGALEDSQLVAGVAFK	CCT7	Q99832	TCPH_HUMA	Unmodified	523290	722810	370570	16380	15990	0	23559	18648
VQGGALEDSQLVAGVAFKK	CCT7	Q99832	TCPH_HUMA	Unmodified	1834000	2226900	1872500	0	0	0	0	0
VQGLLEEEAAAR	SAMD1; SAMD1	Q6SPF0; E9PIW9	SAMD1_HUM	Unmodified	769980	837120	1635000	0	0	0	0	0
VQGVFFR	ACYP1; ACYP1; AC	P07311; G3V597;	ACYP1_HUM	Unmodified	3516400	3939900	3523600	8641.7	0	0	0	0
VQGVFQR	UTP6	Q9NYH9	UTP6_HUMA	Unmodified	277020	325600	358100	0	0	0	0	0
VQHVIHYQVPR	DDX24; DDX24; DD	Q9GZR7; A0A1W	DDX24_HUM	Unmodified	2541300	2069700	2419700	0	0	50415	0	0
VQIAVANAQELLQR	TIMM13	Q9Y5L4	TIM13_HUM	Unmodified	1108300	1938000	997430	0	0	0	12859	0
VQIEHISSLIK	PSMD11	O00231	PSD11_HUM	Unmodified	1290300	1406300	1275900	0	0	0	0	0
VQIQESVR	PRPSAP2; PRPSAP2	O60256; E7EPA1;	KPRB_HUMA	Unmodified	7132300	6473400	6508800	185250	103260	79564	0	0
VQIQSNRENLEQAFEVAER	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	3120900	1162700	3125600	15684	0	0	0	0
VQISPDSGGLPER	KHSRP; KHSRP; KH	Q92945; M0R0C6	FUBP2_HUM	Unmodified	2668000	2431700	2086100	282310	349740	406750	0	0
VQIYHNPTANSFR	VASP; VASP; VASP	P50552; K7ENR7;	VASP_HUMA	Deamidation (N)	2024200	3984500	2541200	111430	114290	125150	0	0
VQKVMVQPINLIFR	SNRPE	P62304	RUXE_HUMA	Oxidation (M)	484020	614520	608490	0	0	0	0	0
VQLDLAETDLSQGVAR	ESYT1	Q9BSJ8	ESYT1_HUM	Unmodified	1661200	1196700	1287500	0	0	0	0	0
VQLETIIK	EPS15L1; EPS15L1;	Q9UBC2; M0R2S	EP15R_HUM	Unmodified	1906200	1416500	1737300	0	0	0	0	0
VQLFEDPTVDKEVEIR	MNAT1	P51948	MAT1_HUMA	Unmodified	0	610670	689010	0	0	0	0	0
VQLISGPPAK	SMCHD1; SMCHD1	A6NHR9; J3KTL8	SMHD1_HUM	Unmodified	1111100	1163700	959380	0	0	0	0	0
VQLLQDLQDFFRK	SRGAP2; SRGAP1; S	O75044; Q7Z6B7;	SRGP2_HUM	Unmodified	105510	71240	271220	0	0	0	0	0
VQLPPEIQLAQR	RRP1; RRP1	P56182; D6RE82	RRP1_HUMA	Unmodified	916380	1078300	1029700	44122	0	83987	0	0
VQLQEAER	KTN1	Q86UP2	KTN1_HUMA	Unmodified	1991100	1747000	2056300	85787	0	0	0	0
VQLSGPQEAEK	COPS3; COPS3	Q9UNS2; H7C3P5	CSN3_HUMA	Unmodified	834730	1048100	868950	0	0	0	0	0
VQLVVGDGR	PCMT1; PCMT1; PC	P22061; F6S8N6;	PIMT_HUMA	Unmodified	14811000	10205000	17892000	733360	769020	734340	0	0
VQMEELSKLLK	PLEC	Q15149	PLEC_HUMA	Oxidation (M)	677790	442360	458200	0	0	0	0	0
VQMIMLAVGEVEDSIFK	XRN2	Q9H0D6	XRN2_HUMA	2 Oxidation (M)	1562900	274620	0	0	0	0	0	0
VQMIMLAVGEVEDSIFKK	XRN2	Q9H0D6	XRN2_HUMA	2 Oxidation (M)	0	939100	1082800	0	0	0	0	0
VQMPSLKMPKVDLK	AHNAK2	Q8IVF2	AHNK2_HUM	Oxidation (M)	0	0	0	0	0	0	0	0
VQNIHPVESAK	NUCB2; NUCB2; NU	P80303; E9PJP3;	NUCB2_HUM	Unmodified	3082500	1842800	3188500	136660	205470	206590	0	0
VQNMALYADVGGK	SSR4	P51571	SSRD_HUMA	Oxidation (M);Deai	0	1197900	0	0	0	0	0	0
VQNMALYADVGGKQFPVTR	SSR4	P51571	SSRD_HUMA	Oxidation (M)	0	743220	633490	87818	100070	70769	0	0
VQPEAQAK	PSME1	Q06323	PSME1_HUM	Unmodified	9993600	8595900	9510600	829430	0	0	0	0
VQPFLPR	DDX51	Q8N8A6	DDX51_HUM	Unmodified	1019100	823620	996970	0	0	73970	0	0
VQPGDRVNVTGIYR	MCM4; MCM4; MC	P33991; A0A3B3I	MCM4_HUM	Unmodified	444040	0	658010	0	0	0	0	0
VQPNEAVYTK	G6PD	P11413	G6PD_HUMA	Unmodified	3226400	2511300	2985000	0	248250	0	0	0
VQPPTPLLPSVK	BRD4	O60885	BRD4_HUMA	Unmodified	866790	957110	1076800	36690	35658	34515	0	0
VQPYLDDFQK	APOA1; APOA1	P02647; F8W696	APOA1_HUM	Unmodified	3821000	2737200	2403000	0	0	0	0	0
VQPYLDDFQKK	APOA1; APOA1	P02647; F8W696	APOA1_HUM	Unmodified	0	0	3099700	0	0	0	0	0
VQQELSRPGMLEMLLPGQPEAVAR	GSS; GSS; GSS; GSS	P48637; A0A2R8Y	GSHB_HUMA	2 Oxidation (M)	7748700	4183300	5895200	0	0	0	0	0
VQQLVPK	ACTN4; ACTN4; AC	O43707; F5GXS2;	ACTN4_HUM	Unmodified	11401000	10844000	6785000	265670	225450	295830	0	0
VQQQEDEITVLK	EML4; EML4	Q9HC35; B5MBZ	EMAL4_HUM	Unmodified	2820400	3116200	2644300	0	0	0	0	0
VQQTVQDLFGR	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	21503000	19072000	20279000	609730	568850	618660	45574	26353
VQQTVQDLFGRAPSK	HSPA9; HSPA9; HSP	P38646; A0A7I2V	GRP75_HUM	Unmodified	11303000	7672800	9061000	462840	512630	560790	0	0
VQQVQPAMQAVIR	NIBAN2	Q96TA1	NIBA2_HUM	Oxidation (M)	310940	468430	0	0	0	0	0	0
VQSLEGEKLSPK	MAP1B	P46821	MAP1B_HUM	Unmodified	763790	1064700	762400	87803	58226	73118	0	0
VQSLQATFGTFESILR	CKAP4	Q07065	CKAP4_HUM	Unmodified	1160100	0	959440	0	0	0	0	0
VQSPEPPAPER	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB_HUM	Unmodified	2401900	2253500	2112000	0	0	0	49920	50242
VQSVEQIR	CTBP2; CTBP1; CTB	P56545; Q13363;	CTBP2_HUM	Unmodified	3136500	2889600	2336600	0	0	12953	0	0
VQSVEQIREVASGAAR	CTBP2; CTBP1; CTB	P56545; Q13363;	CTBP2_HUM	Unmodified	2359700	1924800	2680500	0	0	0	0	0
VQTANEVK	KIF5B	P33176	KINH_HUMA	Unmodified	0	0	612960	0	0	0	0	0
VQTERPQPQTLQLDFLMK	DCTN6	O00399	DCTN6_HUM	Oxidation (M)	3532000	226860	1739800	0	0	0	0	0
VQTESLQER	MSH3; MSH3; MSH3	P20585; A0A590	MSH3_HUMA	Unmodified	0	1094900	927290	417190	81648	0	0	0
VQTEVLQK	EBNA1BP2; EBNA11	Q99848; H7C2Q8	EBP2_HUMA	Unmodified	952250	706790	583360	0	0	0	0	0
VQTFPFLGR	POLD1; POLD1; POI	P28340; A0A2R8Y	DPOD1_HUM	Unmodified	3758400	3493300	4598100	14933	15492	21983	0	0
VQTLSNQPLLK	CCAR2; CCAR2; CC	Q8N163; E5RFJ3;	CCAR2_HUM	Unmodified	2411500	2200500	2289900	86987	85342	94351	0	0
VQTPLLR	SEPTIN9; SEPTIN9;	Q9UHD8; K7ENL	SEPT9_HUM	Unmodified	1860100	2606000	3224400	0	0	0	0	0
VQTQQYYPHVR	SEC31A; SEC31A; SI	H0Y9V3; H7BXG	H0Y9V3_HUM	Unmodified	0	716620	0	246440	0	357330	0	0
VQTRLEETQALLR	DCTN1; DCTN1; DC	Q14203; A0A7P0	DCTN1_HUM	Unmodified	898260	731310	952230	0	0	0	0	0
VQTVLGLVEPSKLGR	PTER	Q96BW5	PTER_HUMA	Unmodified	634950	1341000	724340	0	0	0	0	0
VQVAEEGK	HKDC1	Q2TB90	HKDC1_HUM	Unmodified	2464500	3322300	0	0	0	0	0	0
VQVALEELQDLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1_HUM	Unmodified	785320	735760	660390	9612.3	0	0	9616.1	0
VQVEYKGETK	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C_HUM	Methyl (KR)	1491900	0	1246400	0	0	0	0	0
VQVEYKGETK	HSPA8; HSPA2; HSP	P11142; P54652;	HSP7C_HUM	Unmodified	13290000	10976000	13449000	782270	865050	649890	0	0
VQVLPEVR	NECTIN2	Q92692	NECT2_HUM	Unmodified	2024900	1916000	1454300	216330	220570	204190	0	0
VQVQVVER	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1_HUM	Unmodified	1454300	2788500	2145100	163500	149420	172330	0	0
VQVSPERTQVHAGR	HSPG2	P98160	PGBM_HUM	Unmodified	408840	309420	0	173140	0	264840	38948	0
VQVSYKGETK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A_HUM	Unmodified	3397100	3578100	3310300	288000	346450	442970	0	42922
VQVVDEEGDQQHQEGK	SP3; SP3; SP3; SP3;	O02447; A0A494	SP3_HUMAN	Unmodified	840910	746640	0	0	73238	0	0	0
VQVVGTYR	MCM3; MCM3; MC	P25205; A0A499	MCM3_HUM	Unmodified	4279400	4542400	4188300	0	0	0	0	0
VQYMIEVMFAVRK	CWC22; CWC22	Q9HCG8; B7WP7	CWC22_HUM	2 Oxidation (M);2 I	0	0	0	42022	19348	0	11978	20970
VRAMEAEAAGLREQLEEEAAAR	MYH14; MYH14	Q7Z406; A0A0C4	MYH14_HUM	Oxidation (M)	2705700	3216100	2008000	0	0	0	0	0
VRAPMVNPTLGVHEADLLK	NNT; NNT; NNT; NN	Q13423; A0A590	NNTM_HUM	Oxidation (M)	2404500	1758100	1705400	0	0	0	0	0
VRAWGPGLEGGVVGK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	0	0	0	50118	37712	41765	130190	102390
VRDALTAEK	CACYBP; CACYBP	Q9HB71; B2ZWH	CYBP_HUMA	Unmodified	1461800	1604600	2038100	0	0	0	0	0
VRDFLKVKFTNSNTPNSYNHMDPDK	TOR1AIP1; TOR1AII	Q5JTV8; A0A0A0	TOIP1_HUM	Methyl (KR);2 Dea	0	5082400	0	0	0	0	0	0
VRDLFALAR	AFG3L2	Q9Y4W6	AFG32_HUM	Unmodified	564420	625530	498830	0	0	0	0	0
VRDTYLDTQVVGQTGVIR	SUPT5H	O00267	SPT5H_HUM	Unmodified	6282700	4788500	4553600	237900	96709	117090	21131	31554
VRDVLDFYNVPIQDR	MRPL50	Q8N5N7	RM50_HUMA	Unmodified	2426400	2570300	2174000	21788	0	12757	0	0
VREEEIEVDSR	NOLC1; NOLC1	Q14978; A0A0A0	NOLC1_HUM	Unmodified	2788600	3323200	7502900	421210	604890	533410	0	0
VREEGDEEGEGDEAEDEEQRGPELK	SUPT6H	Q7KZ85	SPT6H_HUM	Unmodified	1570900	1613000	1497500	94014	106540	157540	0	0
VREELIDKKTESAVSQMQSVIELGR	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC_HUMA	Oxidation (M)	1844700	1622800	2112000	0	0	0	0	0
VREEVPLELVEAHVK	SMARCC1	Q92922	SMRC1_HUM	Unmodified	3237400	4070900	4696800	0	0	0	0	0
VREEVPLELVEAHVKKVQEAAR	SMARCC1	Q92922	SMRC1_HUM	Unmodified	624910	396240	523360	0	0	0	0	0
VREEYPDRIMNTFSVVPSPK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Oxidation (M)	4644700	4411000	6235300	22758	38280	0	0	0
VREEYPDRIMNTFSVVPSPK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Oxidation (M);Deai	9119800	9633800	11261000	81105	46197	50188	0	0
VREEYPDRIMNTFSVVPSPK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Oxidation (M);Met	341480000	0	0	0	0	0	0	0
VREEYPDRIMNTFSVVPSPK	TUBB3; N/A; TUBB3	Q13509; A0A0B4	TBB3_HUMA	Oxidation (M);Met	0	1994000	533600	0	0	0	0	140650
VREFSITDVVPYPISLR	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74_HUM	Unmodified	3621000	2525100	2415500	0	0	0	0	0
VREFVGQLVAPLPLGTGALR	VWA1; VWA1; VWA	Q6PCB0; J3QLP3	VWA1_HUM	Unmodified	1414300	1538100	926720	0	0	0	0	0
VREHPLLGPVVEDLSK	KIF1B; KIF1A; KIF1	O60333; Q12756;	KIF1B_HUM	Unmodified	931870	717890	582080	0	0	0	0	0
VRELFVQSEIFPLETPAFAIK	GMPS	P49915	GUAA_HUM	Unmodified	209790	0	155920	0	0	0	0	0
VRELISDNQYR	MCM3	P25205	MCM3_HUM	Unmodified	7144100	5816600	7178000	0	0	0	0	0
VREMEEEAEKLKELQNEVEK	PABPN1; BCL2L2-P	Q86U42; A0A7I2	PABP2_HUM	Oxidation (M)	1688700	887030	0	0	0	0	0	0
VREVFGSGTACQVCPVHR	BCAT2; BCAT2; BC	O15382; B3KSI3;	BCAT2_HUM	Unmodified	484300	974210	572140	116550	173590	145890	0	0
VREVSQPDWTPPPEVTLVLTK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Unmodified	1730100	1265600	0	0	0	0	0	0
VREWYGYHFPELVK	NOP56; NOP56	O00567; A0A494	NOP56_HUM	Unmodified	2946200	1759500	2031300	0	0	0	0	0
VRGEVAPDAK	LGALS1; LGALS1	P09382; F8WEI7	LEG1_HUMA	Unmodified	3454000	7750700	8569800	0	534560	0	0	0
VRGLPWSCSADEVQR	HNRNPH1; HNRNPH	P31943; D6R9D3;	HNRH1_HUM	Unmodified	845370	1312400	1127200	46368	51947	53380	0	0
VRHMQEWLETR	ACYP1; ACYP1	P07311; G3V2U7	ACYP1_HUM	Oxidation (M)	1197800	1016700	1127900	0	0	0	0	0
VRIDEYDYSKPIQGQQK	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUM	Unmodified	2671800	0	777300	80021	28220	0	0	0
VRILANGEIVQDDDPRVR	FAM241B; FAM241	Q96D05; Q5VVH	F241B_HUM	Deamidation (N)	817380	830910	0	97314	106140	69726	57534	41387
VRIQETQAELPR	MCM6	Q14566	MCM6_HUM	Unmodified	3209800	2607700	2407100	0	0	0	0	0
VRLAEAEETAR	CCAR2; CCAR2; CC	Q8N163; G3V119	CCAR2_HUM	Unmodified	1451000	1381500	1829400	143330	0	107320	0	0
VRLDDDDEGVPSSALR	CDK5	Q00535	CDK5_HUMA	Unmodified	859820	459890	0	94018	16125	69730	0	0
VRLGDVISIQPCPDVK	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA_HUMA	Unmodified	1753700	1211500	0	0	0	0	0	0
VRMEEPPAVSLLQDWSR	SPINDOC	Q9BUA3	SPNDC_HUM	Oxidation (M)	1283400	0	1442000	0	0	0	0	0
VRNNYDEEIISLK	DSP	P15924	DESP_HUMA	Deamidation (N)	575730	589620	472480	0	0	0	0	0
VRPCVVYGGADIGQQIRDLER	DDX3X; DDX3Y; DI	O00571; O15523;	DDX3X_HUM	Unmodified	0	1049600	1339600	0	0	0	0	0
VRPVLPGEPTPPPGLLLFPSGPGGPSDPPTR	KIFC1	Q9BW19	KIFC1_HUM	Unmodified	2454500	718430	1068000	0	0	0	0	0
VRQLVEQVEQIQK	TMED9	Q9BVK6	TMED9_HUM	Unmodified	1138800	660820	1604200	0	0	0	0	0
VRQLVEQVEQIQKEQNYQR	TMED9	Q9BVK6	TMED9_HUM	Unmodified	3884300	3283100	5879800	0	0	0	0	0
VRQSRMDTDLETMDLDQGGEALAPR	SNRNP200; SNRNP2	O75643; A0A494	U520_HUMA	2 Oxidation (M)	0	562570	0	291890	271540	263120	0	0
VRTELADKVTK	MYH9	P35579	MYH9_HUM	Unmodified	1859600	1372200	2186200	0	0	0	0	0

VRVDSTAK	CCT2; CCT2; CCT2	P78371; F5GWF6;	TCPB	HUMA	Unmodified	1683800	786050	1246400	0	0	0	0	0	0
VRVEALQSGGGQER	NFS1	Q9Y697	NFS1	HUMA	Unmodified	4821900	5205800	4291700	349900	234660	240020	29528	34611	26424
VRVELSNGEKR	SRSF3	P84103	SRSF3	HUMA	Deamidation (N)	12268000	9119700	10806000	765160	751210	794250	63520	0	66402
VRVELSTGMPR	SRSF7; SRSF7; SRSF	Q16629; A0A0B4;	SRSF7	HUMA	Oxidation (M)	10292000	8425600	7439600	784800	608100	777680	104720	0	89094
VRVIGSPNSPEGPLEYDDIQVRSVR	TTN; TTN; TTN	Q8WZ42; A0A0A	TITIN	HUMA	2 Methyl (KR);Dea	21662000	15854000	14858000	0	0	0	0	0	0
VRVPTTGIIEYPFDLQSVIFR	GNAQ	P50148	GNAQ	HUMA	Unmodified	576080	0	453660	0	0	0	0	0	0
VRVSGQGLHEGHTFEPAEFIIDTR	FLNA; FLNA; FLNA	P21333; H0Y5C6;	FLNA	HUMA	Unmodified	3645400	2932300	3314300	0	0	0	83302	0	0
VRVTELEDEVR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18	HUMA	Unmodified	2068800	1720700	1588700	0	0	0	0	0	0
VRVTELEDEVRNLR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18	HUMA	Unmodified	532460	675600	659800	0	0	0	0	0	0
VRWPDFNQEAYVGGTMVR	GALNT2	Q10471	GALT2	HUM	Oxidation (M)	593060	2029600	0	0	0	0	0	0	0
VRYMVADKFTELQK	PPP2R1A; PPP2R1A;	P30153; B3KQV6	2AAA	HUMA	Oxidation (M)	4861100	4582100	4514900	76593	0	32000	0	0	0
VRYSLDPENPTK	RPL17; RPL17; RPL1	P18621; A0A087	RL17	HUMA	Unmodified	1089800	981370	1218800	105340	0	90196	0	86099	0
VSAAVLPLVHPLPEGLR	NCOR1; NCOR1; NC	O75376; E7EVU5	NCOR1	HUM	Unmodified	2089000	3125800	2571800	18244	0	0	0	0	0
VSADELKLSDLLK	SNX6; SNX6	Q9UNH7; A0A0A	SNX6	HUMA	Unmodified	1180400	1235000	1846900	0	0	0	0	0	0
VSAENLQK	DIAPH1; DIAPH1; DI	O60610; A0A0G2	DIAP1	HUM	Unmodified	1662700	896740	996090	0	102120	219620	0	0	0
VSAGRGSISSGLEFVSHNPPSEAATPPVAR	ATXN2; ATXN2; AT	Q99700; A0A5F9	ATX2	HUMA	Methyl (KR)	0	1110600	1576200	0	0	0	0	0	0
VSAKNALESYAFNMK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Oxidation (M);Dea	0	0	4314400	305690	195470	115900	0	29835	0
VSAKNALESYAFNMK	HSPA1A; HSPA1B; I	P0DMV8; P0DMV	HS71A	HUM	Oxidation (M)	0	722420	769620	843310	579290	526090	59577	60921	94294
VSALEVLPDR	SPIN1	Q9Y657	SPIN1	HUMA	Unmodified	3269800	1823800	2296500	80347	37747	33372	0	0	0
VSALEVLPDRVATSR	SPIN1	Q9Y657	SPIN1	HUMA	Unmodified	5651800	4439900	4314000	127030	150790	115580	17708	19189	19258
VSALQTPR	RPS3	E9PK82	E9PK82	HUM	Unmodified	0	0	6538500	0	0	0	0	0	0
VSALSVVR	SLC25A13	Q9UJS0	CMC2	HUM	Unmodified	308090	503230	0	0	0	0	36359	0	30428
VSAPGVLTAQDR	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182	HUM	Unmodified	990230	881140	939650	115030	21385	97035	0	0	0
VSAPGVQGDVK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	353150	547370	231410	234460	242720	0	0	38004
VSAPGVQGDVKGPQVALK	AHNAK	Q09666	AHNK	HUM	Unmodified	658630	592360	317870	94638	106010	74299	62657	56456	38415
VSASPLLYTLIEK	TFRC; TFRC	P02786; G3V0E5	TFR1	HUMA	Unmodified	1550600	1026800	956820	14718	0	25233	0	0	0
VSASTVPTDGSSR	MAVS	Q7Z434	MAVS	HUM	Unmodified	1045800	0	268470	0	40463	0	0	0	0
VSDATGQMNLTK	CAPG	P40121	CAPG	HUMA	Oxidation (M)	2163500	1958800	1979800	0	0	0	0	0	0
VSDKVMIPQDEYPEINFVGLLIGPR	SF1; SF1	Q15637; A0A7P0	SF01	HUMA	Oxidation (M)	1224300	480540	1274400	0	0	0	0	0	0
VSDLENEAK	LAMC1	P11047	LAMC1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VSDLQMLLGFVGR	PIAS4	Q8N2W9	PIAS4	HUMA	Oxidation (M)	218580	222100	205350	0	0	0	0	0	0
VSDSISAQYPVVDHEFDAVVVGAGGAGLR	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA	HUMA	Unmodified	0	1184000	1375700	0	0	0	0	0	0
VSEDVYR	CRAT; CRAT; CRAT	P43155; A0A7P01	CACP	HUM	Unmodified	2934700	2736700	3618000	102980	0	93208	0	0	0
VSEEGPAAR	SCRIB; SCRIB; SCRI	Q14160; H0YDF9	SCRIB	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VSEEIEDIIK	GGCT; N/A	O75223; M0QZK8	GGCT	HUM	Unmodified	6571100	6881400	0	0	0	59624	0	0	0
VSEEIFFGR	AFG3L2	Q9Y4W6	AFG32	HUM	Unmodified	4678400	4726600	4716600	199340	187200	196020	22088	0	0
VSELKEELK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Unmodified	5038300	4238400	4458200	51324	57641	98407	0	0	0
VSELKEELKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Unmodified	36177000	29550000	39544000	351200	45938	91868	0	0	0
VSELKEELKK	HNRNPU; HNRNPU;	Q00839; A0A1X7	HNRPU	HUM	Methyl (KR)	0	355900	423600	0	0	0	0	0	0
VSELTGEAEPR	NFYC	Q13952	NFYC	HUMA	Unmodified	494250	446850	638000	41409	0	0	0	0	0
VSEPVLSLPVR	ALKBH5	Q6P6C2	ALKB5	HUM	Unmodified	950670	773950	826060	0	0	0	0	0	0
VSEQGLIEILK	PDCD5; PDCD5	O14737; K7EQA1	PDCD5	HUM	Unmodified	1919300	1650800	2529800	13603	7279.1	12332	0	0	14475
VSEQGLIEILKK	PDCD5; PDCD5	O14737; K7EQA1	PDCD5	HUM	Unmodified	2978900	2242700	2175100	0	0	0	0	0	0
VSESPSPVTTNTPAQFASVSPTVPEFLK	MRTFB; MRTFB	Q9ULH7; I3L2S3	MRTFB	HUM	Unmodified	689030	836670	923820	0	0	0	0	0	0
VSEYVPEIVNFVQK	CARS1; CARS1	P49589; B4DKY1	SYCC	HUMA	Unmodified	619690	852380	539950	0	0	0	0	0	0
VSFGVDEEERVR	CHCHD6; CHCHD6;	Q9BRQ6; J3QTA6	MIC25	HUM	Unmodified	5329700	5667200	6024200	139160	229870	54847	0	0	0
VSFLLPTLR	LRWD1; LRWD1	Q9UFC0; H7C5S6	LRWD1	HUM	Unmodified	1121500	791810	982980	11930	0	0	0	0	0
VSFLSALEEYTK	APOA1; APOA1	P02647; F8W696	APOA1	HUM	Unmodified	0	674360	785390	47867	0	63664	60849	0	0
VSFSYAGLSGDDPDLGPAHVVTVIAR	TMEM43	Q9BTV4	TMM43	HUM	Unmodified	5165700	1284400	5093300	0	0	0	0	0	0
VSFTGSVPTGMK	ALDH9A1	P49189	AL9A1	HUM	Oxidation (M)	3679500	3052900	2820200	219490	218430	270540	30844	22311	0
VSFTGSVPTGMKIMEMSAK	ALDH9A1	P49189	AL9A1	HUM	3 Oxidation (M)	0	1421300	0	0	0	325580	0	0	0
VSFYQLSHFLQCK	ATP2A2; ATP2A2	P16615; H7C5W9	AT2A2	HUM	Unmodified	1598700	1008000	1152200	0	0	0	0	0	0
VSGAAPPRPGSSFAHFGFDEQLMHQIR	DDX42; DDX42	Q86XP3; A0A0A0	DDX42	HUM	Oxidation (M)	1962000	2132400	2180400	0	0	0	0	0	0
VSGDDVIIGK	POLR2B; POLR2B; I	P30876; C9J2Y9;	RPB2	HUMA	Unmodified	4618100	2259700	4307700	635990	538170	614030	0	0	0
VSGEEELHTGPPAPQGPLSVPQGLPTQSLASPPAR	PPP6R1	Q9UPN7	PP6R1	HUM	Unmodified	1209800	1328900	1436000	0	0	0	0	0	0
VSGETDLSK	IMPA2	O14732	IMPA2	HUM	Unmodified	710800	1693800	2124900	17321	0	0	0	0	0
VSGGLEVLAEK	ANP32A; ANP32C; A	P39687; O43423;	AN32A	HUM	Unmodified	5680800	6278300	5646600	0	0	0	25193	0	0
VSGGPSLEQR	EIF3L; EIF3L; EIF3L;	Q9Y262; B0QY89	EIF3L	HUMA	Unmodified	474520	779690	634510	0	0	0	0	0	0
VSGHVITDIVEGKK	ALDH18A1	P54886	P5CS	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VSGIGPSAAR	POLB; POLB; POLB;	P06746; E7EW18;	DPOLB	HUM	Unmodified	3913700	4083900	3359500	269870	208440	262070	0	0	0
VSGISFPTTELLR	TARS2	Q9BW92	SYTM	HUM	Unmodified	2670200	2531600	2130300	29053	23565	0	13427	0	0
VSGLAGSIYREFER	MAPKSIP3; SPAG9;	Q9UPT6; O60271	JIP3	HUMA	Unmodified	0	1256400	1442900	0	0	0	0	0	0
VSGLGEKVDVGKDQEFTVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	4008800	3395200	3894200	90255	69213	109690	451920	280100	329220
VSGLGEKVDVGKDQEFTVK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Methyl (KR)	1562900	1232300	1531800	0	0	0	161960	149570	133320
VSGLMMANHTSISSLFER	TUBG1; TUBG1	P23258; A0A7P0	TBG1	HUMA	2 Oxidation (M);De	528900	445940	349890	0	0	0	0	0	0
VSGPDLDLNLK	AHNAK	Q09666	AHNK	HUM	Unmodified	0	0	0	0	70348	75446	0	0	0
VSGQGLHEGHTFEPAEFIIDTR	FLNA; FLNA; FLNA	P21333; H0Y5C6;	FLNA	HUMA	Unmodified	20336000	20418000	19055000	21119	54390	36130	369300	240800	179490
VSGSATGTVSDLAPGQGSGMDDMKLLEQR	XAB2	Q9HCS7	SYF1	HUMA	2 Oxidation (M)	696940	0	0	0	0	0	0	0	0
VSGSELVQK	PSMC5; PSMC5; PSI	P62195; J3QQM1;	PRS8	HUMA	Unmodified	1846000	2116800	1799700	0	0	0	0	0	0
VSGSELVQKFIGEGAR	PSMC5; PSMC5; PSI	P62195; J3QQM1;	PRS8	HUMA	Unmodified	464040	995390	810300	0	0	0	0	0	0
VSGVDGYETEGIR	MCM6	Q14566	MCM6	HUM	Unmodified	1500400	1721800	2146700	0	0	0	0	0	0
VSGVDGYETEGIRGLR	MCM6	Q14566	MCM6	HUM	Unmodified	2305500	1535200	1815700	0	0	0	0	0	0
VSHLLGINVTDFTR	MYH9	P35579	MYH9	HUM	Unmodified	18091000	14240000	12924000	28374	18540	21644	25933	19751	23765
VSHLLGINVTDFTR	MYH9	P35579	MYH9	HUM	Deamidation (N)	1140900	2358200	1593300	0	0	0	0	0	0
VSHQGYSTEAEFEEPR	LRPAP1	P30533	AMRP	HUM	Unmodified	3678200	3374000	3298000	93174	70897	284080	0	0	0
VSHSPALSSDVR	ARID2; ARID2; ARI	Q68CP9; F8VWP4	ARID2	HUM	Unmodified	0	396590	497850	0	16294	21250	0	0	0
VSHVSTGGGASLELLEGK	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Unmodified	1651000	1477600	1463700	18321	11956	0	0	0	0
VSIAPSQR	PRPF3	O43395	PRPF3	HUM	Unmodified	3748600	3301300	367410	312010	339630	446810	0	0	0
VSILESLDKWER	PRKAR1A; PRKAR1	P10644; K7EPB2;	KAP0	HUMA	Unmodified	4967300	3568200	3760900	0	0	0	0	0	0
VSISEGDDKIEYR	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUMA	Unmodified	23187000	25384000	24775000	894450	899940	798890	14188	0	0
VSISEGDDKIEYR	FBL; FBL; FBL; FBL	P22087; M0R299;	FBRL	HUMA	Methyl (KR)	651460	768720	763800	0	30311	0	0	0	0
VSITEAMHR	PLEC; PLEC	Q15149; H0YDN1	PLEC	HUMA	Oxidation (M)	483720	310670	962470	223620	271470	0	0	0	0
VSIVTPEDILR	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	890910	813230	810390	0	0	0	0	0	0
VSKLEEELAAER	CTTNBP2NL; CTTN	Q9P2B4; B1AMN	CT2NL	HUM	Unmodified	1086100	953040	986110	21174	31318	34496	0	0	0
VSLDEDNDRLMVR	SEZ6L2; SEZ6L2; SE	Q6UXD5; H3BN2	SE6L2	HUM	Oxidation (M)	0	834520	1003500	0	49334	45602	0	0	0
VSLDVNHFAPDELTVK	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Unmodified	29132000	19425000	21006000	501200	408280	157650	300790	187240	271640
VSLDVNHFAPDELTVK	HSPB1; HSPB1; HSP	P04792; A0A6Q8	HSPB1	HUM	Deamidation (N)	27607000	34322000	28904000	269210	0	0	119270	35480	76551
VSLEPHQGPGTPESK	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	573860	560950	556320	0	0	0	0	0	0
VSLERLDLDLTADSQPPVFK	TRIM28; TRIM28	Q13263; M0R0K9	TIF1B	HUMA	Unmodified	9911200	2871300	4454700	0	0	0	0	0	0
VSLFSHLPQYSR	EIF2B4; EIF2B4; EIF	Q9UI10; A0A087	EI2BD	HUM	Unmodified	765460	845380	738410	32381	0	0	0	0	0
VSLGEGRPPVLTASR	ARMC8; ARMC8; AI	G5E9V7; H7C5B7	G5E9V7	HUM	Unmodified	1721800	1278600	1021200	0	39928	0	0	0	0
VSLLGPVTTPEHQLLK	RACGAP1	Q9H0H5	RGAP1	HUM	Unmodified	340800	440840	440780	0	0	0	0	0	0
VSLLNEQFLPLIR	HEATR1; HEATR1	Q9H583; Q5T3Q7	HEAT1	HUM	Unmodified	212740	128340	172280	0	0	0	0	0	0
VSLMPATLAR	TAPBP; TAPBP; TAI	O15533; A0A0G2	TPSN	HUMA	Oxidation (M)	386680	0	0	20721	15408	17873	0	0	9714.4
VSLMSPDQLR	FOXRED1	Q96CU9	FXRD1	HUM	Oxidation (M)	283650	528770	803700	0	0	0	0	0	0
VSLQVHPDR	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	573260	488430	0	0	0	0	0	23663	0
VSLQVHPDRVGEGDKEDATR	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	1841300	1985000	2492800	0	0	0	0	0	0
VSLSAESLLK	ELF2	Q15723	ELF2	HUMA	Unmodified	1051500	914080	943290	23677	0	23998	0	0	0
VSLSGSSDPHLCR	ENTPD2	Q9Y5L3	ENTP2	HUM	Unmodified	1162500	353730	242310	0	0	0	0	0	0
VSMEPSER	CARMIL1; CARMIL	Q5VZK9; A0A0U	CARL1	HUM	Oxidation (M)	303930	0	346060	0	0	0	0	0	0
VSMPDVDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	379470	259700	319100	120150	0	138100
VSMPDVDLNLKGPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M);Dea	0	0	0	0	20769	34981	0	0	15372
VSMPDVELNLKSPK	AHNAK	Q09666	AHNK	HUM	Oxidation (M)	0	0	0	219940	266110	265930	0	0	0
VSMVGQVK	PPME1	Q9Y570	PPME1	HUM	Oxidation (M)	2551100	1088100	2419800	283970	311460	344550	0	0	0
VSNFKPGVYAVSVTGR	SUPT4H1; SUPT4H1	P63272; D3DTZ5;	SPT4H	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
VSNTLESRLDLIAQQMMPEVR	ATP6V1E1	P36543	VATE1	HUM	2 Oxidation (M);De	500140	0	1306900	0	0	0	0	0	0
VSPDMAIFITMNPGYAGR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	2 Oxidation (M)	10479000	7730100	7847200	273250	196850	288170	0	12122	0
VSPEEAIK	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A	HUMA	Unmodified	1421500	1106800	0	0	21828	0	0	0	0
VSPEEVTIYNHPGIQAELR	NUP210	Q8TEM1	PO210	HUM	Unmodified	1480800	1749500	1076600	0	11525	0	0	0	0
VSPESNEDISTTVVYR	GLS; GLS	B8ZZA8; B8ZZC5	B8ZZA8	HUM	Unmodified	513440	530380	687010	0	0	0	0	0	0
VSPGAFTPLVKLER	DCN; DCN; DCN; DC	P07585; F8VUF6;	PGS2	HUMA	Unmodified	730080	714330	802670	103430	116520	97194	44425	34934	0
VSPGLPSPNLENGAPAVGPVQPR	LIMD1; LIMD1	Q9UGP4; C9JRJ5	LIMD1	HUM	Deamidation (N)	0	0	0	95792	68952	75998	27799	20807	0
VSPSTSYTPSR	MCMBP	Q9BTE3	MCMBP	HUM	Unmodified	3528900	4325000	3964800	272680	267770	276090	0	25748	0
VSQAAADLK	GNG5	P63218	GBG5	HUMA	Unmodified	4190100	4665300	5220800	34398	0	0	0	0	0
VSQDLEVEKPDASPTSLQLR	SASH1	O94885	SASH1	HUM	Unmodified	950800	1480700	0	0	0	0	0	0	0
VSQGKEPVHLLSLFK	SCIN	Q9Y6U3	ADSV	HUM	Unmodified	11674000	11285000	12464000	0	0	0	0	0	0
VSQGQLVVMQPEK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Oxidation (M)	5650000	5158200	6305200	175950	126810	232770	0	0	0
VSQGQLVVMQPEKFQSK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Oxidation (M)	3034000	4543500	3961500	75521	87893	131460	0	0	0
VSQGQLVVMQPEKFQSKYEPR	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM	Oxidation (M)	3599700	3151000	3862800	459390	433350	138240	0	0	0
VSQGSKDPAEGDGAQPEETPR	GANAB; GANAB	Q14697; F5H6X6	GANAB	HUM	Unmodified	5973000	6253100	6454000	532450	655800	500730	0	0	0
VSQGSKDPAEGDGAQPEETPRDGDKPEETQGK	GANAB; GANAB	Q14697; F5H6X6	GANAB	HUM	Unmodified	8517300	11475000	7865800	0	0	722440	0	0	0
VSQGVEDGPDTKR	SAE1; SAE1; SAE1;	Q9UBE0; B3KNJ4	SAE1	HUMA	Unmodified	15179000	10871000	8306300	0	0	0	0	0	0
VSQLLAVTGK	CBFB; CBFB	Q13951; J3KS23	PEBB	HUMA	Unmodified	597520	604460	414510	0	0	0	0	0	0
VSQLQER	PGM1	P36871	PGM1	HUM	Unmodified	4282800	13293000	20581000	118380	0	160640	0	0	0
VSQMLILTPFQGQGHGAQLLETVHR	HAT1	O14929	HAT1	HUMA	Oxidation (M)	0	0	6618800	0	0	0	0	0	0
VSQPIEGHAASFAQFK	CLTC; CLTC	Q00610; A0A087	CLH1	HUMA	Unmodified	0	1985700	2468000	63834	50488	71282	0	12415	0
VSQQILEK	ACAD9; ACAD9; AC	Q9H845; H0Y8Z9	ACAD9	HUM	Unmodified	374880	489660	416860	0	0	0	0	0	0
VSRDTLYEAVR	RPL10A	P62906	RL10A	HUM	Unmodified	973370	731960	809880	0	0	0	0	0	0
VSRDTLYEAVREVLHGNQR	RPL10A	P62906	RL10A	HUM	Unmodified	968860	4176300	4152400	0	0	0	0	0	0
VSSAEGAAKEEPK	HMGN1; HMGN1; H	P05114; H7BXJ5;	HMGN1	HUM	Unmodified	14229000	11867000	11831000	593030	0	822230	0	0	0
VSSAEGAAKEEPKR	HMGN1; HMGN1; H	P05114; H7BXJ5;	HMGN1	HUM	Unmodified	334230	156110	295790	70683	112110	0	0	0	0
VSSAEGAAKEEPKRR	HMGN1; HMGN1; H	P05114; H7BXJ5;	HMGN1	HUM	Unmodified	739290	0	348720	328940	253670	0	0	0	37678

VSSDEDLKLTELLR	SNX5; SNX5; SNX5	Q9Y5X3; Q5QPE5	SNX5	HUMA	Unmodified	485640	281230	426340	0	0	0	0	0	0
VSSDNVADLHEK	PSMB5	P28074	PSB5	HUMA	Unmodified	5042000	3114400	2596300	129790	135090	109770	0	0	0
VSSDNVADLHEKYSGSTP	PSMB5	P28074	PSB5	HUMA	Unmodified	9569000	11922000	9530600	1791000	1612900	1688900	163550	172000	27610
VSSDVIDQK	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L	HUMA	Unmodified	1893700	1854200	2124700	86757	76625	0	0	0	0
VSSFEEK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Unmodified	7397600	8001100	5820500	495230	413230	577420	0	0	0
VSSFEEKMISDAIPELK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Oxidation (M)	4442300	4889700	4006800	37952	0	0	0	0	0
VSSFEEKMISDAIPELK	MDH2; MDH2	P40926; G3XAL0	MDHM	HUM	Oxidation (M);Metl	1150300	567980	605920	0	0	0	0	0	0
VSSKNSLESYAFNMK	HSPA8; HSPA8; HSP	P11142; E9PKE3;	HSP7C	HUM	Oxidation (M);2 De	629510	1592100	2586000	63095	43149	21550	0	0	0
VSSLPLLLPYWR	IAH1; IAH1	Q2TAA2; H7C5G	IAH1	HUMA	Unmodified	409500	408280	363630	0	0	0	0	0	0
VSSQSFSEIER	ARFGAP2; ARFGAP	Q8N6H7; E9PIY6;	ARFG2	HUM	Unmodified	2611500	1966700	0	0	50014	78532	0	0	0
VSSSYPVEPK	NDC1	Q9BTX1	NDC1	HUMA	Unmodified	268110	511550	394510	44783	37329	43858	0	0	0
VSSTATTQDVIETLAEK	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUMA	Unmodified	1114000	1205400	623040	7064.8	0	0	0	0	0
VSSTATTQDVIETLAEKFRPDMR	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUMA	Oxidation (M)	0	1627600	2060100	0	0	0	0	0	0
VSSVFKDEATVR	RANGAP1	P46060	RAGP1	HUM	Unmodified	1061400	1901300	1349600	83423	0	0	0	0	0
VSTAVLSITAK	PSMD1; PSMD1; PSI	Q99460; A0A7Z	PSMD1	HUM	Unmodified	1368000	874410	1942700	20827	34971	32784	0	0	0
VSTDLGSGDK	LZIC	Q8WZA0	LZIC	HUMA	Unmodified	910680	579180	615670	0	0	0	0	0	0
VSTDLLR	PGAM5; PGAM5	Q96HS1; F5GXG4	PGAM5	HUM	Unmodified	1931500	1709700	1600000	79129	59398	0	0	0	0
VSTEANRSIVPISR	RP2	O75695	XRP2	HUMA	Deamidation (N)	571600	650570	642720	48766	46979	57295	17374	30206	0
VSTEANRSIVPISR	RP2	O75695	XRP2	HUMA	Unmodified	361990	0	0	67101	80344	107640	15193	16506	15269
VSTEVDAR	TALDO1; TALDO1	P37837; F2Z393	TALDO	HUM	Unmodified	15702000	5252500	8366600	335090	497370	0	0	0	0
VSTSNSSVQLIVGLANHHEQK	N/A	N/A	N/A		2 Deamidation (N)	6152600	10102000	0	83040	74248	89551	0	0	0
VSTTLNVAQAYYAR	MYO1B; MYO1B	O43795; E9PDF6	MYO1B	HUM	Unmodified	1928100	1558300	1838200	0	0	0	0	0	0
VSVADHSLHLSK	PRDX4; PRDX4	Q13162; A6NG45	PRDX4	HUM	Unmodified	9404200	7308100	6631100	1115500	1171900	993410	0	0	0
VSVADHSLHLSKAK	PRDX4; PRDX4	Q13162; A6NG45	PRDX4	HUM	Unmodified	0	0	0	295220	161020	192480	0	0	0
VSVELTNSLFK	JUP	P14923	PLAK	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VSVFQTQLPSLGAGLLQSR	SEC24B	O95487	SC24B	HUM	Unmodified	1603200	998570	1063600	0	0	0	0	0	0
VSVGEFVGEGEGK	STAU1; STAU1; STA	O95793; Q5JW30;	STAU1	HUM	Unmodified	1151700	902900	945450	104760	102610	84512	0	0	0
VSVINTVDTSHEDMIHDAQMDYYGTR	SEC13; SEC13	P55735; E7ERC8	SEC13	HUM	Acetyl (Protein N-t	3362700	5046500	5075600	84336	0	0	0	0	0
VSVINTVDTSHEDMIHDAQMDYYGTR	SEC13; SEC13	P55735; E7ERC8	SEC13	HUM	Acetyl (Protein N-t	0	1125300	1278700	0	0	0	0	0	0
VSVIQFLEAPIGDEDAEEAAAEK	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	1650800	670140	1235200	0	0	0	0	0	0
VSVIQFLEAPIGDEDAEEAAAEKR	SCRIB; SCRIB; SCRI	Q14160; A0A0G2	SCRIB	HUM	Unmodified	9863700	6849000	8976900	0	0	0	0	0	0
VSVLNVAVLENPSPFHSPFR	ASF1B; ASF1B; ASF	Q9NVP2; K7EIL9	ASF1B	HUM	Unmodified	1249900	881550	0	0	0	0	0	0	0
VSVPLIAQGNSYPSETTVK	LAMC1	P11047	LAMC1	HUM	Deamidation (N)	772970	947280	665670	35722	0	0	0	0	0
VSVPSNLSYGEWLHGFEK	KTN1; KTN1; KTN1;	Q86UP2; G3V5P0	KTN1	HUMA	Unmodified	1246100	1752400	592700	0	0	0	0	0	0
VSVPTHPEAVGDASLTVVK	VCAN; VCAN; VCA	P13611; Q86W61;	CSPG2	HUM	Unmodified	3111300	2875200	3065700	0	0	0	0	0	0
VSVQRTQAPAVATT	RPS2; RPS2; RPS2	P15880; E9PQD7;	RS2	HUMA	Unmodified	1499800	1412600	1372400	627710	805200	0	391130	0	0
VSVSPVVHVR	HNRNPLL; HNRNPL	Q8WVV9; C9IYN	HNRLL	HUM	Unmodified	421900	627210	440860	0	0	0	0	0	0
VSVVANTPSGPVEAFDFDEYQPEMLEK	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Oxidation (M)	2953600	0	0	0	0	0	0	0	0
VSVVSPDHVSDSTVSAR	CRACDL; CRACDL	Q6NV74; C9JK00	CRCDL	HUM	Unmodified	1680500	1430100	0	0	0	0	0	0	0
VSWQDLKDFMR	SRSF5	Q13243	SRSF5	HUM	Oxidation (M)	4403200	6950300	4527300	51102	81348	38025	0	0	0
VSYALLFGDYLPQNIQAAR	SEL1L	Q9UBV2	SEL1L	HUM	Unmodified	268970	144020	230670	0	0	0	0	0	0
VSYARPSSEVIK	ELAVL1; ELAVL1; I	Q15717; M0R055	ELAV1	HUM	Unmodified	2178300	2516700	1934600	0	0	33022	0	0	0
VSYARPSSEVIKDANLYISGLPR	ELAVL1; ELAVL1; I	Q15717; M0R055	ELAV1	HUM	Unmodified	19178000	16900000	17484000	0	0	0	0	0	0
VSYARPSSEVIKDANLYISGLPR	ELAVL1; ELAVL1; I	Q15717; M0R055	ELAV1	HUM	Deamidation (N)	1337600	2291400	1543200	0	0	0	0	0	0
VSYFAVFDGHGGIR	ILKAP; ILKAP	Q9H0C8; E9PC05	ILKAP	HUM	Unmodified	4402500	5421400	3988300	16347	0	0	0	0	0
VSYFPTVPGVYIVSTK	FLNB; FLNB; FLNB	O75369; H7C5L4;	FLNB	HUMA	Unmodified	1092500	105480	160090	0	0	0	0	0	0
VSYGIGDEEHDQEGR	APEX1; APEX1; API	P27695; G3V359;	APEX1	HUM	Unmodified	1578300	2527200	1695900	0	0	0	0	0	0
VTAAPQSVCALR	A2M	P01023	A2MG	HUM	Unmodified	8712400	6999000	7382400	390560	476340	525470	46819	155620	77938
VTADQLR	ECE1; ECE1; ECE1	P42892; B4DKB2	ECE1	HUMA	Unmodified	3414400	0	0	0	0	0	0	0	0
VTADVINAAEK	PHGDH; PHGDH; PH	O43175; A0A286	SERA	HUMA	Unmodified	2695400	2134100	2155600	0	0	0	0	0	0
VTADVINAAEKLQVVGR	PHGDH; PHGDH; PH	O43175; A0A286	SERA	HUMA	Unmodified	0	1754500	2010000	0	15520	0	0	0	0
VTADVINAAEKLQVVGR	PHGDH; PHGDH; PH	O43175; A0A286	SERA	HUMA	Deamidation (N)	351160	323670	536570	0	0	0	0	0	0
VTADVTSAVMGNPVTR	SCYL2; SCYL2; SCY	Q6P3W7; A0A0U	SCYL2	HUM	Oxidation (M)	569750	0	667000	0	0	0	0	0	0
VTAEADSSSPTGILATSESK	SHTN1	A0MZ66	SHOT1	HUM	Unmodified	0	2092300	1445300	0	70113	0	0	0	0
VTAEDKGTGNKNK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	480110	647130	828820	0	0	0	0	0	0
VTAEDKGTGNKNK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	742510	1418800	790690	0	0	0	0	0	0
VTAEVVLAHLGGGSTSR	RPN1; RPN1	P04843; F8WF32	RPN1	HUMA	Unmodified	19569000	18794000	19891000	183640	136510	113810	30853	50858	34665
VTAIHIDPATHR	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	0	4807600	5417500	119270	117350	50054	0	0	0
VTAPQPAATNGDLASR	ATP2C1; ATP2C1; A	P98194; B4E2Q0;	ATC1	HUM	Deamidation (N)	739440	655530	760340	72411	73855	82720	0	0	0
VTATDLDEPDTLHTR	DSC1	Q08554	DSC1	HUMA	Unmodified	433470	453140	443880	0	74375	92058	0	0	0
VTAVIPCFPYAR	PRPS2; PRPS1; PRP	P11908; P60891;	PRPS2	HUM	Unmodified	4844300	3465100	957100	12242	43122	44707	0	0	13091
VTAVPTLLK	TXNDC17; TXNDC1	Q9BRA2; I3L2R6	TXDI7	HUM	Unmodified	27748000	23835000	28238000	637260	757720	671740	33952	33344	28867
VTAVVTLR	ACSF3; ACSF3; ACS	Q4G176; F5H5A1	ACSF3	HUM	Unmodified	0	0	0	0	62374	0	0	0	0
VTAYTVDVTGR	AHNAK	Q09666	AHNK	HUM	Unmodified	605180	689130	455340	93229	97517	98721	24889	0	0
VTCLESGLR	PMPCB; PMPCB; PA	O75439; G3V0E4;	MPPB	HUM	Unmodified	1352700	2050200	1065800	121670	103710	104490	0	0	0
VTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7Z	CH60	HUMA	Unmodified	101300000	95023000	77120000	1624700	1674000	1747500	0	0	0
VTDALNATR	HSPD1; HSPD1; HSP	P10809; A0A7Z	CH60	HUMA	Deamidation (N)	41334000	44485000	43413000	1165300	1187600	1311700	0	0	0
VTDDLVCLVYK	SRP9	P49458	SRP09	HUM	Unmodified	1041600	1713000	1524800	21567	18201	17923	0	14114	0
VTDFGDKVEDPTFLNQLQSGVNR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	2463800	0	0	0	0	0	0	0	0
VTDKLTPIHDR	PSMB6; PSMB6; PSI	P28072; B3KX7;	PSB6	HUMA	Unmodified	2636700	2843300	3092400	0	0	0	0	0	0
VTDLKAALEQR	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	2578000	1727700	1915400	110760	53160	53351	0	0	0
VTDLKAALEQRGLAK	ACIN1; ACIN1; ACI	Q9UKV3; E7EQT	ACINU	HUM	Unmodified	138540	0	0	39056	37796	28794	0	0	0
VTDLVQFLLFK	MAGEA10; MAGEA	P43363; C9J958;	MAGAA	HUM	Unmodified	84604	30216	88770	0	0	0	0	0	0
VTDPVGDIVSFMHSFEEK	FAF2	Q96CS3	FAF2	HUMA	Oxidation (M)	2946600	4069800	4887700	0	0	0	0	0	0
VTDPVGDIVSFMHSFEEKYGR	FAF2	Q96CS3	FAF2	HUMA	Oxidation (M)	2374300	946770	1857500	0	0	0	0	0	0
VTDYAEEKEIQSSNLETAMSVIGDRR	HYPK	Q9NX55	HYPK	HUM	Oxidation (M)	2762400	0	2560100	0	0	0	0	0	0
VTEAEIVPMGK	FLNB; FLNB; FLNB	O75369; H7C5L4;	FLNB	HUMA	Oxidation (M)	559360	576260	439420	134640	170270	0	0	0	0
VTEDALIR	PDE12; PDE12	Q6L8Q7; F6T1Q0	PDE12	HUM	Unmodified	665610	647800	720070	44536	55124	53364	0	0	0
VTEEDFYKLVSEFTITK	CEL	P19835	CEL	HUMAN	Unmodified	144090	0	120380	0	0	0	0	0	0
VTEGGEPYR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	9441800	8681000	7517800	0	265670	258330	13012	0	0
VTEGLTDVILYHQPDDK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	Unmodified	1098900	1843800	3212800	0	0	0	52564	93175	
VTEGLVDVILYHQPDDK	HNRNPR; HNRNPR;	O43390; B4DT28;	HNRPR	HUM	Unmodified	0	1062200	1738700	21039	15730	25932	22777	30771	0
VTEGTIREEQEYEEEVEEEPRPAAK	EPB41L2; EPB41L2;	O43491; E9PMV8	E41L2	HUM	Unmodified	1150400	1196000	0	0	357060	266840	0	0	0
VTEKDIWVQEPESK	MAOA	P21397	AOFA	HUM	Unmodified	3045300	3336900	4283800	136310	127530	160720	0	0	0
VTELALTASDR	PRKDC	P78527	PRKDC	HUM	Unmodified	3977500	4142000	4254000	0	0	0	0	0	0
VTELEDEVRNLR	WDR18; WDR18; WI	Q9BV38; K7EIR0	WDR18	HUM	Unmodified	0	1164600	1362200	50453	0	0	0	0	0
VTEPLDRER	CDH1; CDH1; CDH1	P12830; J3QKP1;	CADH1	HUM	Unmodified	928720	745770	839560	185010	156050	119260	0	0	0
VTEPSILR	KIF1A; KIF1A; KIF1	Q12756; A0A3F2	KIF1A	HUM	Unmodified	759340	506400	746370	17225	0	0	0	0	0
VTEQALLRPQSK	PLEKHA1	Q9HB21	PKHA1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VTEQEVDAIGQTLVDPKQPLQAR	DOHH	Q9BU89	DOHH	HUM	Acetyl (Protein N-t	413910	371190	436530	0	0	0	0	0	0
VTEQEWR	CLTB	P09497	CLCB	HUMA	Unmodified	0	799510	748140	0	0	0	0	0	0
VTFEDATDFFGR	NR2C2AP	Q86WQ0	NR2CA	HUM	Unmodified	4759100	2158000	2949900	0	0	0	0	0	0
VTFKDEPGEGSGVAR	UBR5; UBR5; UBR5	O95071; E5RFK7;	UBR5	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VTFSEDDEIINPEDVDPSVGR	PPP1R8; PPP1R8	Q12972; A0A0A0	PP1R8	HUM	Unmodified	0	2042500	2751100	0	0	0	0	0	0
VTFSGLRDTVTPGELLK	EPPK1; EPPK1	P58107; A0A075	EPIPL	HUM	Unmodified	302590	338860	366070	0	0	0	0	0	0
VTFVNFTVTR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Deamidation (N)	2088500	1786700	2076600	53457	0	42902	0	0	0
VTFVNFTVTR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1326000	1199900	1546600	0	0	0	0	0	0
VTGADVPMPYAK	PDHB	P11177	ODPB	HUMA	Oxidation (M)	12831000	13331000	14305000	837730	35586	295900	0	0	0
VTGDDSMRMSHLK	FLNA; FLNA; FLNA	P21333; H7C2E7;	FLNA	HUMA	2 Oxidation (M)	2487000	2850000	3338400	0	0	335750	0	79511	463850
VTGEADVEFATHEDAVAAMAK	HNRNPH2	P55795	HNRH2	HUM	Oxidation (M)	2285600	0	1144200	0	0	0	0	0	0
VTGEADVEFATHEDAVAAMSK	HNRNPH1; HNRNPH	P31943; H0YBD7	HNRH1	HUM	Oxidation (M)	5236300	7780100	5860100	49375	0	0	0	0	0
VTGEADVEFATHEEAVAAMSKDR	HNRNPF	P52597	HNRPF	HUM	Oxidation (M)	2621100	1943400	1602700	0	0	0	0	0	0
VTGEVLDILTR	FLOT1; FLOT1; FLO	O75955; A0A140	FLOT1	HUM	Unmodified	2041600	521090	677360	0	0	0	0	0	0
VTGNFKHASPILPITEFSDIPR	TMPO; TMPO; TMPI	P42167; G5E972;	LAP2B	HUM	Deamidation (N)	7658800	7031300	7576100	0	0	0	0	0	0
VTGNFKHASPILPITEFSDIPR	TMPO; TMPO; TMPI	P42167; G5E972;	LAP2B	HUM	Methyl (KR)	0	0	545790	0	0	0	0	0	0
VTGQFPWSSLR	SAMM50	Q9Y512	SAM50	HUM	Unmodified	1608600	1485500	1645000	0	0	0	0	0	0
VTGQHQGYGFVEFLSEEDADYAIK	SF3B4; SF3B4	Q15427; Q5SZ64	SF3B4	HUM	Unmodified	1753300	1189200	1201400	0	0	0	0	0	0
VTGSLETK	VDAC1; VDAC1	P21796; C9JI87	VDAC1	HUM	Unmodified	4987800	6863500	7083800	438680	367230	307080	0	0	0
VTGSLSSAK	FEN1	P39748	FEN1	HUMA	Unmodified	7964500	7152400	6884700	0	0	0	0	0	0
VTGTLETK	VDAC2; VDAC2; VI	P45880; Q5JSD1;	VDAC2	HUM	Unmodified	3762000	7776700	4872300	311580	290260	0	0	0	0
VTGVPLSYLLSR	POLD1; POLD1; POI	P28340; A0A2R8	DPOD1	HUM	Unmodified	1455400	1037400	1306800	0	0	0	0	0	0
VTGVVLFR	SOD3	P08294	SODE	HUMA	Unmodified	0	0	0	82619	82880	101000	207670	0	238990
VTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Unmodified	28232000	17208000	24690000	369570	341030	421720	103610	56832	94498
VTHAVVTVPAYFNDAQR	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	38188000	35533000	33090000	113840	394960	171860	14350	80356	104750
VTHAVVTVPAYFNDAQRQATK	HSPA5; HSPA5; HSP	P11021; A0A7P0	BIP	HUMAN	Deamidation (N)	3301800	2345800	2502100	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUMA	Deamidation (N)	33397000	16738000	34160000	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUMA	Unmodified	957060000	526560000	798310000	533890	0	555440	648730	0	320290
VTIAQGGVLPNIQAVLLPK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUMA	Methyl (KR)	7082500	3117300	4062900	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPKK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUMA	Methyl (KR)	4829200	3491500	5441900	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPKK	H2AX; H2AC6; H2A	P16104; Q93077;	H2AX	HUMA	Unmodified	18982000	12692000	12059000	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPKKTESHHK	H2AC6; H2AW; H2A	Q93077; Q7L7L0;	H2A1C	HUM	Methyl (KR)	6358200	3419400	3731600	0	0	0	0	0	0
VTIAQGGVLPNIQAVLLPKKTESHHK	H2AC6; H2AW; H2A	Q93077; Q7L7L0;	H2A1C	HUM	Unmodified	6465700	7649000	6701400	0	0	0	0	0	0
VTIAQGYDALSSMANIA	NNT; NNT; NNT; NN	Q13423; E9PCX7;	NNTM	HUM	Unmodified	409570	60646	0	0	0	0	0	0	0
VTIEYYSQLK	ALDH9A1	P49189	AL9A1	HUM	Unmodified	1060500	669410	843090	55589	49626	0	0	0	0
VTIKKEDLELIMTEMEISR	HYPK	Q9NX55	HYPK	HUM	2 Oxidation (M)	4308500	4015400	5313900	0	0	0	0	0	0
VTILELFR	SLC2A1; SLC2A1	P11166; A0A6Q8	GTR1	HUMA	Unmodified	692690	619520	882350	0	0	0	0	0	0
VTILGHVQR	PFKP; PFKP; PFKP;	Q01813; A0A7Z	PFKAP	HUM	Unmodified	583540	0	705240	0	0	0	0	0	0
VTIMPKDIQLAR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUMA	Oxidation (M)	42340000	42800000	42575000	15518000	17535000	16198000	2447900	2555800	2685200
VTIMPKDIQLAR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUMA	Oxidation (M);Metl	386290000	386270000	482740000	18831000	16191000	16042000	2077900	2005900	2118000
VTIMPKDIQLAR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUMA	Methyl (KR)	0	0	0	0	0	0	0	0	0
VTIMPKDIQLARR	H3-4; H3-3A; H3C15	Q16695; P84243;	H31T	HUMA	Oxidation (M)	1347400	1462400	1583300	249660	289360	320220	0	0	0
VTIYQVPLPK	ECSIT; ECSIT; ECSI	Q9BQ95; J3KTF5	ECSIT	HUM	Unmodified	4506000	2198400	2893300	0	0	0	0	0	0

VTKDGVTVAK	HSPD1; HSPD1; HSP	P10809; A0A72V	CH60_HUMA	Unmodified	19286000	27770000	31684000	1670800	1482200	1291000	0	0	0
VTKEQWDTIEELIR	DECR1	Q16698	DECR_HUMA	Unmodified	954830	750960	988140	0	0	0	0	0	0
VTKPNIPEAIR	ERLIN2; ERLIN2; ER	O94905; E5RHW4	ERLN2_HUM	Unmodified	2768800	4738000	3473800	99825	65151	126270	0	0	0
VTLAVSDLQK	GLOD4; GLOD4; GL	Q9HC38; F6TLX2	GLOD4_HUM	Unmodified	8201500	8011400	9432900	88372	110730	123380	0	0	0
VTLDPVQLESSLLR	MACF1; MACF1; M	Q9UPN3; H3BQK	MACF1_HUM	Unmodified	2983900	3211100	3270100	0	0	0	0	0	0
VTLDWAK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	1845700	2430300	1898300	70923	27903	44009	0	0	0
VTLELGGK	ALDH2; ALDH1A1; ;	P05091; P00352;	ALDH2_HUM	Unmodified	2060900	1905300	2229800	43993	46769	43509	0	0	10899
VTLENFYSNLIAQHEEREMR	STK38	Q15208	STK38_HUMA	Oxidation (M)	1473800	1415600	1118600	0	0	0	0	0	0
VTLEVGKVIQQGR	EDF1	O60869	EDF1_HUMA	Unmodified	790860	911930	749950	33256	30081	0	0	0	0
VTLEYRPVIDK	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA_HUMA	Unmodified	5243200	5217500	4826400	161320	139460	143640	0	0	0
VTLGDTLTR	ACIN1; ACIN1; ACI	Q9UKV3; G3V3B	ACINU_HUM	Unmodified	3456100	3524200	1200500	244990	219190	232770	0	0	0
VTLGTQPTVLR	DDB1; DDB1; DDB1	Q16531; A0A7P0	DDB1_HUMA	Unmodified	2096200	2156600	2135200	0	0	51637	0	0	0
VTLLLSSK	RBM12; RBM12; RB	Q9NTZ6; Q5JX62	RBM12_HUM	Unmodified	1365100	1057100	959400	0	0	0	0	0	0
VTLMLLDQNNR	TRAF2	Q12933	TRAF2_HUM	Oxidation (M);Met	0	0	0	0	109830	0	0	0	0
VTLMQLPTR	EIF3B	P55884	EIF3B_HUMA	Oxidation (M)	4515200	4308100	4459300	84389	52125	58168	0	0	0
VTLMQLPTRQEIR	EIF3B	P55884	EIF3B_HUMA	Oxidation (M)	4033700	3563000	4001500	168710	160800	215850	23633	23181	0
VTLSFPSTLQTGTGTLK	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL_HUMA	Unmodified	931680	711070	948890	0	0	0	0	0	0
VTLSVLSR	PIR	O00625	PIR_HUMAN	Unmodified	1180700	1569700	2287100	0	28508	78679	0	0	0
VTLTLPVLNAAR	PGLS; PGLS	O95336; M0R261	6PGL_HUMA	Deamidation (N)	1363200	1514800	1448400	0	0	0	0	0	0
VTLTLPVLNAAR	PGLS; PGLS	O95336; M0R261	6PGL_HUMA	Unmodified	8078300	8016100	9411600	47606	27813	21644	0	19648	11645
VTLTSEEEAR	LDHA	P00338	LDHA_HUMA	Unmodified	102120000	108270000	94581000	897920	933060	980350	13509	0	0
VTLTSEEEARLK	LDHA	P00338	LDHA_HUMA	Unmodified	5812700	6609600	5200400	82432	58123	78356	0	0	0
VTLTSEEEARLKK	LDHA	P00338	LDHA_HUMA	Unmodified	1207200	1016300	1016500	264520	199160	345940	0	0	0
VTMEEASR	PCYT1A; PCYT1A; I	P49585; C9J050;	PCY1A_HUM	Oxidation (M)	0	172940	0	158170	200990	187310	0	0	0
VTMESALTAR	MYO1C; MYO1C; M	O00159; I3L501; I	MYO1C_HUM	Oxidation (M)	572590	484470	812850	70995	50169	89293	0	0	0
VTMLFLGLHNVR	DARS1; DARS1	P14868; H7BZ35	SYDC_HUMA	Oxidation (M)	1435300	1037700	1031000	0	0	0	0	0	0
VTNGAFTGEISPGMIK	TPI1	P60174	TPIS_HUMAN	Oxidation (M);Deai	6767400	7852100	7821400	0	49594	42113	0	0	0
VTNLSEDTR	EIF3G; EIF3G; EIF3G	O75821; K7EL20;	EIF3G_HUMA	Unmodified	2159200	138480	2063000	115900	142620	106630	0	0	0
VTNRDIICQIAYAR	RPL5; RPL5; RPL5; I	P46777; Q5T7N0;	RL5_HUMAN	Unmodified	3810200	4307900	4274700	112390	121940	79835	0	0	0
VTNRDIICQIAYAR	RPL5; RPL5; RPL5; I	P46777; Q5T7N0;	RL5_HUMAN	Deamidation (N)	948740	969210	811540	36502	25715	16914	0	9431.1	0
VTNVDEEKQR	PDCD11; PDCD11	Q14690; A0A3B3	RRP5_HUMA	Unmodified	0	1191800	0	0	0	0	0	0	0
VTPDTDWAR	ACLY; ACLY	P53396; K7ESG8	ACLY_HUMA	Unmodified	5617800	4902500	5563400	242710	227350	337950	0	0	0
VTPGFEEKEGELLVR	ACSF3; ACSF3; ACS	Q4G176; F5H5A1	ACSF3_HUM	Unmodified	2041800	1998100	2329000	0	0	68851	0	0	0
VTPIKIMNLPFK	RBM12B; RBM12B	Q8IXT5; B9ZVT1	RB12B_HUM	Oxidation (M)	0	0	693120	0	0	0	0	0	0
VTPPEGYEVVTVFPK	PDLIM1	O00151	PDLI1_HUMA	Unmodified	3957600	3078400	3445000	429600	467340	442920	514300	467570	402820
VTPSTVLLQVLEDTCR	ASPSCR1; ASPSCR1	Q9BZE9; C9JAL9	ASPC1_HUM	Unmodified	268970	154130	277360	0	0	0	0	0	0
VTPTKESYTEEIVSEAESHVSGISR	DNTTIP2; DNTTIP2;	Q5QJE6; E9PRB3	TDIF2_HUMA	Unmodified	478940	933070	0	0	0	0	0	0	0
VTPTRTEIIILATR	RPS3; RPS3; RPS3; I	P23396; H0YF32;	RS3_HUMAN	Unmodified	4418300	5227400	4011700	56316	52195	43668	15650	13816	11428
VTPVEVMPVFPDFK	PAF1; PAF1	Q8N7H5; B4DGJ5	PAF1_HUMA	Oxidation (M)	2143100	2096300	2093200	45084	36389	15167	0	0	0
VTQDELK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	12254000	11428000	9861100	0	82570	83307	0	0	0
VTQDELKEVFEDAAEIR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	33708000	29875000	32936000	0	0	0	0	0	0
VTQDELKEVFEDAAEIR	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Methyl (KR)	3668100	4295800	3997300	0	0	0	0	0	0
VTQDELKEVFEDAAEIRLVSKDGK	NCL; NCL; NCL; NC	P19338; C9JLB1;	NUCL_HUMA	Unmodified	1550400	1488100	991620	0	0	0	0	0	0
VTQEEIK	SAP18; SAP18	O00422; U3KQ12	SAP18_HUM	Unmodified	1170000	0	3961200	100110	0	0	0	0	0
VTQEIVTER	DSG2	Q14126	DSG2_HUMA	Unmodified	1360000	1085400	1119200	57734	116130	103630	0	0	0
VTQLDLDGPK	PDAP1	Q13442	HAP28_HUM	Unmodified	685490	802890	1097000	0	145910	0	0	0	0
VTQLTDR	DSP	P15924	DESP_HUMA	Unmodified	3083500	2979100	3351900	0	0	0	0	0	0
VTQLTDRWQR	DSP	P15924	DESP_HUMA	Unmodified	553410	715790	171180	0	0	0	0	0	0
VTQLTREELSR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3_HUM	Unmodified	4793500	3840700	4257700	103570	114830	108050	58424	0	30940
VTQSAYAQIVQFGMNEK	AFG3L2	Q9Y4W6	AFG32_HUM	Oxidation (M)	0	0	2896700	0	0	0	0	0	0
VTQSNFAVGYK	VDAC1; VDAC1	P21796; C9JI87	VDAC1_HUM	Deamidation (N)	801200	486430	758740	0	0	0	0	0	0
VTQSNFAVGYK	VDAC1; VDAC1	P21796; C9JI87	VDAC1_HUM	Unmodified	3190500	5039200	2703600	219340	184990	235570	0	0	0
VTQVDGNSPVR	ARCN1; ARCN1	P48444; B0YIW6	COPD_HUMA	Unmodified	2531000	2290400	1786700	0	0	0	0	0	0
VTSAHKGPDETLR	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6_HUMA	Unmodified	14734000	6540500	21671000	873930	978410	0	0	0	0
VTSEELHYFVQNHFTSAR	UQCRC2; UQCRC2;	P22695; H3BRG4	QCR2_HUMA	Unmodified	5025400	5139300	2265800	0	0	0	0	0	0
VTSEGAGLQLQK	GAA	P10253	LYAG_HUMA	Unmodified	4570600	4412700	5091800	97564	150610	178970	0	0	0
VTSELLR	XPNPEP1; MANBA;	Q9NQW7; O0046	XPP1_HUMA	Unmodified	1348300	1265600	1282100	29185	0	0	0	0	0
VTSSLGDIPVSR	GGA2	Q9UJY4	GGA2_HUMA	Unmodified	811100	677580	529720	0	0	0	0	0	0
VTSVVFHPSQDLVFSASPDATIR	PRPF19	Q9UMS4	PRP19_HUM	Unmodified	4403200	2855800	2588800	0	0	0	0	0	0
VTTEQYQKAAEEVEAK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MK119_HUM	Unmodified	881930	524290	799840	69174	0	72637	0	0	0
VTTGPIFSMALHPSETR	WDR76; WDR76	Q9H967; A0A0C4	WDR76_HUM	Oxidation (M)	374110	367340	567510	10191	0	0	0	0	0
VTTHPLAK	PARK7; PARK7; PAI	Q99497; K7ELW0	PARK7_HUM	Unmodified	10813000	11691000	17042000	172790	233920	168540	0	0	0
VTTLDNGLR	PMPCA	Q10713	MPPA_HUMA	Deamidation (N)	299920	1142400	0	81852	70987	75973	0	0	0
VTTMDAELEFAIQPNTTGK	RDX; EZR; MSN; RI	P35241; P15311;	RADI_HUMA	Oxidation (M)	1582400	1270700	1206500	0	18508	0	26691	32752	0
VTTQTSLPLFR	SNX1; SNX1	Q13596; H0YK43	SNX1_HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VTTVTEIGKDVIGLR	COPA; COPA; COPA	P53621; A0A3B3	COPA_HUM	Unmodified	8227100	5556500	6406900	54119	35477	0	48813	0	22648
VTTVVATPGQGPDRPQEVSYTDTK	GSK3B; GSK3B; GSI	P49841; A0A7I2	GSK3B_HUM	Unmodified	1783400	2399400	2145800	0	0	0	0	0	0
VTVAGGVHISGLHTESAPR	FASN; FASN	P49327; A0A0U1	FAS_HUMAN	Unmodified	1786200	916270	918270	0	0	0	0	0	0
VTVAGLAGK	PARK7; PARK7	Q99497; K7ELW0	PARK7_HUM	Unmodified	5661000	5209000	3033300	0	37011	0	0	0	0
VTVAGLAGKDPVQCSR	PARK7; PARK7	Q99497; K7ELW0	PARK7_HUM	Unmodified	11660000	14371000	17100000	318730	280290	397440	0	0	0
VTVAGLAGKDPVQCSR	PARK7; PARK7	Q99497; K7ELW0	PARK7_HUM	Methyl (KR)	860740	812150	1120900	0	0	0	0	0	0
VTVDQVTDR	NHLRC2	Q8NBF2	NHLC2_HUM	Unmodified	794090	553890	1785900	0	0	0	0	0	0
VTVDTGVIPASEEK	EIF5B; EIF5B	O60841; A0A087	IF2P_HUMA	Unmodified	0	1339500	1269000	0	0	0	0	0	0
VTVEDKDLVNTANWR	DSC2; DSC2	Q02487; A0A3B3	DSC2_HUMA	Unmodified	856710	0	0	0	0	0	0	0	0
VTVIPFYMGMR	POLDIP2; POLDIP2	Q9Y2S7; B4DEM	PDIP2_HUMA	2 Oxidation (M)	768200	416150	647100	17958	0	0	0	0	0
VTVLFAGQHIAK	FLNA; FLNA; FLNA;	P21333; A0A72V	FLNA_HUMA	Unmodified	4997400	4416200	7372700	43313	32813	91903	0	28364	31657
VTVLFAGQHISK	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1001400	974900	1457200	0	0	29831	0	0	0
VTVLGQPK	IGLL5; IGLL5	B9A064; A0A0B4	IGLL5_HUMA	Unmodified	706240	408650	711380	0	0	45191	0	0	0
VTVLTLQDK	UBA2	Q9UBT2	SAE2_HUMA	Unmodified	1088300	1171400	1079300	0	0	0	0	0	0
VTVLTLQDKIVK	UBA2	Q9UBT2	SAE2_HUMA	Unmodified	4127200	0	2598800	0	0	0	0	0	0
VTVLTLQDKIVKEK	UBA2	Q9UBT2	SAE2_HUMA	Unmodified	833960	503610	415670	0	0	0	0	0	0
VTVMASLR	PRKDC	P78527	PRKDC_HUM	Oxidation (M)	3168300	2822100	2277900	81804	69957	96736	0	0	0
VTVTEGGVKQEYR	FBLL1	A6NHQ2	FBLL1_HUM	Unmodified	316650	466000	414910	36494	41458	0	0	0	0
VTVTSEGGR	HSPG2	P98160	PGBM_HUM	Unmodified	0	0	2023500	1484100	0	1265000	0	0	0
VTVVDVNESR	UGDH; UGDH; UGD	O60701; E7ETF4;	UGDH_HUM	Unmodified	991230	754770	0	616730	731990	624190	0	0	0
VTVVDVNESR	UGDH; UGDH; UGD	O60701; E7ETF4;	UGDH_HUM	Deamidation (N)	0	621290	0	275440	312860	315680	0	0	0
VTWAPPPSIDLTNFLVR	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Unmodified	2164100	2059400	2523200	0	0	0	0	0	0
VTWAPPPSIDLTNFLVR	FN1; FN1	P02751; H0Y7Z1	FINC_HUMA	Deamidation (N)	197980	118820	238370	0	0	0	0	0	0
VTWDGHSGSMAR	SF3A1; SF3A1	Q15459; H7C1L2	SF3A1_HUM	Oxidation (M)	2521800	2656200	2755300	85712	51830	118260	0	0	0
VTWNVLFSPR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	624790	878620	485200	0	0	0	0	0	0
VTYCPTEPGNYIINIK	FLNA; FLNA; FLNA	P21333; H0Y5C6;	FLNA_HUMA	Unmodified	1094000	1641300	1518600	0	36271	22969	34306	25393	45471
VTYHPDGPEGQAYDVDFTPPFR	KARS1	Q15046	SYK_HUMAN	Unmodified	3570700	5070500	5299300	0	0	11564	0	0	0
VTYHPDGPEGQAYDVDFTPPFRR	KARS1	Q15046	SYK_HUMAN	Unmodified	924570	734270	827960	0	0	0	0	0	0
VTYIDYEGR	CPSF2; CPSF2	Q9P2I0; H0YJF4	CPSF2_HUM	Unmodified	623610	585410	450640	28158	0	33031	0	0	0
VTYKAPVPTGEVYFADSFDR	CANX; CANX; CAN	P27824; A0A7P0	CALX_HUM	Unmodified	3891200	1069800	0	30819	0	0	0	0	0
VTYMEEER	HSPA4; HSPA4; HSP	P34932; A0A087	HSP74_HUM	Oxidation (M)	0	669410	566820	0	0	0	0	0	0
VTYTPMAPGSYLISIK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Oxidation (M)	2719900	2162900	2191100	28648	20679	18932	0	22109	26063
VVAAPQRPGTEPQPEMPDTVLQSETLK	LETM1	O95202	LETM1_HUM	Oxidation (M)	0	720860	1105500	0	0	0	0	0	0
VVACNLYPFVK	ATIC; ATIC	P31939; C9JLK0	PUR9_HUMA	Unmodified	1892200	1930800	1635500	0	0	0	0	0	0
VVADGAGLPGEDWVFVSSK	GFUS; GFUS; GFUS;	Q13630; E9PKL9;	FCL_HUMAN	Unmodified	1831700	716910	2839200	0	0	0	0	0	0
VVAEPQTQR	LARP4B; LARP4B; I	Q92615; X6RCG6	LAR4B_HUM	Unmodified	0	728910	1034100	0	0	0	14706	10758	0
VVAEPVELAQEFR	NDUFS3	O75489	NDUS3_HUM	Unmodified	14526000	18024000	15464000	270730	282880	336660	41853	18609	16111
VVAEPVELAQEFRK	NDUFS3	O75489	NDUS3_HUM	Unmodified	2333300	1703700	2230600	73475	84700	53609	0	0	0
VVAEVYDQER	PUF60; PUF60; PUF	Q9UHX1; A0A0J9	PUF60_HUM	Unmodified	0	1144400	802100	0	0	0	0	0	0
VVALEQSR	PMVK	Q15126	PMVK_HUM	Unmodified	3076800	3495300	2779300	0	0	0	0	0	0
VVALSMSPVDDTFISGSLDK	WDR82	Q6UXN9	WDR82_HUM	Oxidation (M)	1720300	2467700	2155500	0	0	0	0	0	0
VVALSMSPVDDTFISGSLDKTIR	WDR82	Q6UXN9	WDR82_HUM	Oxidation (M)	2629900	1837400	1280600	0	0	0	0	0	0
VVANSKESYELR	RPL22; RPL22; RPL	P35268; K7EMH1	RL22_HUMA	Deamidation (N)	22059000	15313000	21311000	788840	514490	209500	0	0	0
VVANSKESYELR	RPL22; RPL22; RPL	P35268; K7EMH1	RL22_HUMA	Unmodified	1855200	2304200	0	125370	93894	85960	0	0	8313.4
VVANSKESYELR	RPL22; RPL22; RPL	P35268; K7EMH1	RL22_HUMA	Methyl (KR);Deam	1728100	1663200	2127900	41072	71435	48220	0	0	0
VVAPTISSPVCQEQLVEAGR	TLN1	Q9Y490	TLN1_HUMA	Unmodified	945910	766780	796180	25621	0	0	0	0	0
VVATKQGNAVTLGDYYQGR	LSR; LSR; LSR; LSR	Q86X29; M0QZL5	LSR_HUMAN	Deamidation (N)	0	0	0	190800	0	146400	0	0	0
VVDAILGLAHHGNGQLR	CARS2; CARS2; CAI	Q9HA77; H0YFF0	SYCM_HUM	Deamidation (N)	802600	856700	0	0	0	0	0	0	0
VVDALGNAIDGK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Deamidation (N)	2055100	1333200	936960	0	59229	60237	0	0	0
VVDALGNAIDGK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Unmodified	1604800	482120	1579900	0	0	0	0	0	0
VVDALGNAIDGKGPIGSK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Unmodified	14136000	8460400	9398500	73845	85384	122490	0	0	0
VVDALGNAIDGKGPIGSK	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Deamidation (N)	13292000	12303000	10815000	134750	146880	210900	0	0	0
VVDALGNAIDGKGPIGSKTR	ATP5F1A; ATP5F1A	P25705; K7EJP1;	ATPA_HUMA	Deamidation (N)	1402300	1598100	1687800	0	0	0	0	0	0
VVDDELATR	PDHX; PDHX	O00330; H0YD97	ODPX_HUMA	Unmodified	1790400	940400	1017800	0	0	0	0	0	0
VVDEREQMAISGGFIR	SNAP25	P60880	SNP25_HUM	Oxidation (M)	2855400	3420200	2587300	54918	55206	0	0	0	10560
VVDEREQMAISGGFIRR	SNAP25	P60880	SNP25_HUM	Oxidation (M)	539720	436190	501700	32896	0	0	0	0	0
VVDGAVGAQWLAEFRK	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2_HUMA	Unmodified	864720	967880	349820	0	0	0	0	0	0
VVDLEGSLK	LRRC47	Q8N1G4	LRC47_HUM	Unmodified	2855800	3391800	3958200	76609	136000	66954	0	0	0
VVDLLAPYAK	ATP5F1B; ATP5F1B	P06576; H0YH81;	ATPB_HUMA	Unmodified	49984000	49918000	46526000	572620	646730	143590	41561	49898	32899
VVDLLVIK	NDUFA6; NDUFA6;	P56556; R4GN43;	NDUA6_HUM	Unmodified	2881700	1482300	2227700	8360.7	7338.1	0	0	0	0
VVDLMAHMASK	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	107660000	90911000	85503000	1738000	1981500	1777900	82478	89719	112030
VVDLMAHMASKE	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M)	1040500000	1288200000	1085600000	29777000	29538000	28990000	2567500	2079600	2433500
VVDLMAHMASKE	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	2 Oxidation (M);M	21489000	31201000	25149000	799350	847900	844420	51737	129410	182720
VVDLMAHMASKE	GAPDH; GAPDH	P04406; E7EUT5	G3P_HUMAN	Oxidation (M)	1594900	1570900	1890300	0	10475	11631	0	0	0
VVDNTTAK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C_HUM	Unmodified	407990	0	554840	0	0	0	0	0	0
VVDNTTAKEFADSLGIPFLETSAK	RAB1C; RAB1B; RA	Q92928; Q9H0U4	RAB1C_HUM	Unmodified	1004400	1454300	1781600	0	0	0	0	0	0
VVDPETGR	ARL6IP4; ARL6IP4;	Q66PJ3; A0A0C4	AR6P4_HUM	Unmodified	0	1387900	2291600	57855	0	105790	0	0	0

VVDRDSEEAEIIR	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	18857000	18400000	15173000	404300	608580	409270	0	0	0
VVDRDSEEAEIIRK	PARP1; PARP1	P09874; A0A7I2V	PARP1	HUM	Unmodified	10629000	10421000	10358000	138530	168090	124660	0	0	0
VVDRFVEFLK	KPNA6; KPNA6; KP	O60684; Q5TFJ7;	IMA7	HUMA	Unmodified	393140	543780	666040	0	0	0	0	0	0
VVDSMEDEVQR	FARSA; FARSA; FA	Q9Y285; K7ER16	SYFA	HUMA	Oxidation (M)	3593200	3288200	3420900	0	213340	170160	0	0	0
VVDTLYDGKLGNWLAVR	TJP2; TJP2; TJP2; TJ	Q9UDY2; A0A3B	ZO2	HUMAN	Unmodified	0	0	0	0	0	0	0	0	0
VVDYSQFQESDDADEDYGRDSGPPTK	NUCKS1	Q9H1E3	NUCKS	HUM	Unmodified	1758000	2184100	1624500	79702	69653	0	0	0	0
VVDYSQFQESDDADEDYGRDSGPPTKK	NUCKS1	Q9H1E3	NUCKS	HUM	Unmodified	4200700	5243600	7128500	285540	0	346220	0	29549	0
VVEELTR	DDB1; NCS1; DDB1;	Q16531; P62166;	DDB1	HUMA	Unmodified	3489600	3384400	3940200	0	162100	164810	0	0	0
VVEEPNAFGVNNPFLPQASR	GNPTG; GNPTG; GN	Q9UJJ9; E9PQQ5;	GNPTG	HUM	Deamidation (N)	0	492280	2270400	0	0	0	0	0	0
VVEEPYTVR	CLUH; CLUH; CLUH	O75153; I3L2B0;	CLU	HUMAN	Unmodified	2302600	1138600	1815200	0	0	0	0	0	0
VVEFLVK	CDKN2C	P42773	CDN2C	HUM	Unmodified	547510	0	0	0	0	0	0	0	0
VVEGPREVEVVASTAAGAPAQR	KANK2; KANK2	Q63ZY3; K7ERU	KANK2	HUM	Unmodified	0	586060	0	115540	127740	52783	0	86606	0
VVEIAPAAHLDPQLR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMAN	Unmodified	3761300	2986600	2676300	194990	154330	115140	16675	10485	0
VVEKADSWVEKEEPAPSN	CCAR2; CCAR2	Q8N163; H0YB24	CCAR2	HUM	Unmodified	2050400	1216900	1511000	0	0	0	0	0	0
VVEQLEK	DPP3; DPP3; DPP3;	Q9NY33; G3V1D	DPP3	HUMA	Unmodified	2417200	2167300	1785000	0	0	0	0	0	0
VVESLDVGQDR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	622980	559640	685620	0	0	0	0	0	0
VVESLDVGQDRVR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	1658900	0	0	0	0	0	64638	55545	0
VVETDPSPYCIVAPDTVIHCEGEPIKR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUMA	Unmodified	2233200	1584200	2179500	0	0	0	0	0	0
VVETEDAYK	RAB35; RAB35	Q15286; F5H157	RAB35	HUM	Unmodified	918080	1268700	561050	0	0	0	0	0	0
VVFEQTK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS	HUMA	Unmodified	91083000	99750000	82041000	1154800	1341400	1546900	0	0	0
VVFEQTKVIADNVK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS	HUMA	Methyl (KR)	810530	1016500	541090	0	0	0	0	0	0
VVFEQTKVIADNVK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS	HUMA	Unmodified	499490	486720	457190	0	16527	23619	0	0	0
VVFEQTKVIADNVKDWSK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS	HUMA	Unmodified	0	830350	1319700	0	0	0	0	0	0
VVFQEFR	MYH9	P35579	MYH9	HUM	Unmodified	7478600	7775900	7530400	0	0	0	0	0	0
VVFVFGPDK	PRDX6	P30041	PRDX6	HUM	Unmodified	1012900	959730	940610	36344	25896	0	13817	14450	0
VVGAMQLYSVDR	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Oxidation (M)	6210600	4339100	5068100	205260	176050	152500	0	0	0
VVGAMQLYSVDRK	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUMA	Oxidation (M)	2919900	3370800	2738700	215770	241250	194810	31162	23356	0
VVGAQSLK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUMA	Unmodified	2976800	2125900	2651700	0	32564	0	0	0	0
VVGAQSLKEMVSK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD	HUMA	Oxidation (M)	3016500	2553300	2947400	0	0	0	0	0	0
VVGAVIDQGLITR	C11orf98; C11orf98;	E9PRG8; A0A494	CK098	HUM	Unmodified	1054900	696820	0	0	0	0	0	0	0
VVGDRENGSDNLPSSAGSGDKPLSDPAPF	TPD52L2; TPD52L2	O43399; A0A087	TPD54	HUM	Deamidation (N)	1951200	1730600	1691200	111060	114770	80430	0	0	0
VVGDVAYDEAK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	1477000	1274900	1325300	40101	0	39990	0	0	0
VVGDVAYDEAKER	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	6452100	7017600	6314200	434240	305190	245610	0	0	0
VVGFDAVMR	SEC24C; SEC24C	P53992; G5EA31	SC24C	HUM	Oxidation (M)	2157000	2590300	2342000	60727	99729	69267	0	0	0
VVGFHVLGPNAGEVTQGFAAALK	TXNRD1; TXNRD1;	Q16881; A0A087	TRXR1	HUM	Unmodified	1210900	924650	956150	0	0	0	0	0	0
VVGKPAQLGTQR	TNKS1BP1; TNKS1B	Q9C0C2; A0A2R8	TB182	HUM	Unmodified	583310	568350	759750	0	0	0	0	0	0
VVGPQQLHSETNER	TIMM29	Q9BSF4	TIM29	HUM	Unmodified	994120	124570	627640	0	0	0	0	0	0
VVGRNGESSELDLQGIR	CNPY2; N/A; CNPY2	Q9Y2B0; F8W031	CNPY2	HUM	Deamidation (N)	0	0	0	150170	124620	144090	0	0	0
VVGSEFVQK	PSMC4	P43686	PRS6B	HUM	Unmodified	0	2025700	2134400	0	0	0	0	0	0
VVGSEFVQKYLGEGPR	PSMC4	P43686	PRS6B	HUM	Unmodified	0	535650	0	0	0	0	0	0	0
VVGSELIQK	PSMC1	P62191	PRS4	HUMA	Unmodified	6649100	589130	0	0	0	0	0	0	0
VVGTIDQLVK	SUGP2; SUGP2; SUC	Q8IX01; M0R2Z9	SUGP2	HUM	Unmodified	745370	615920	707480	0	0	0	0	0	0
VVHCSDLGLTSVPTNIPFDTR	ASPN; ASPN; ASPN;	Q9BXN1; A0A49	ASPN	HUMA	Unmodified	1788400	876510	1185700	47285	23347	0	48552	0	18345
VVHIIQSR	BRDT; BRD4; BRD3	Q58F21; O60885;	BRDT	HUM	Unmodified	382260	417760	715920	0	0	10432	0	0	0
VVHIMDFQR	MATR3; MATR3; M	P43243; B3KM87	MATR3	HUM	Oxidation (M)	3967500	4538100	4067300	142790	157750	163730	16386	0	0
VVHSYEELEENYTR	PC; PC; PC; PC; PC	P11498; E9PRE7;	PYC	HUMAN	Unmodified	2254700	0	1845000	111870	87409	109380	0	0	0
VVIDAFR	PSMD14	O00487	PSDE	HUMA	Unmodified	2110000	2145700	1826200	0	0	0	0	0	0
VVIGMDVAASEFFR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Oxidation (M)	147940000	129860000	133030000	181780	119600	84145	96400	72591	60208
VVIHFTDGADGDLADLHR	COL6A3; COL6A3	P12111; E7ENL6	CO6A3	HUM	Unmodified	1336800	649680	0	0	0	0	0	0	0
VVIIGAGKPAAVVLQTK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	48513000	50933000	55535000	496450	210310	262760	55768	59234	0
VVIIGAGKPAAVVLQTK	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Methyl (KR)	3981700	2488700	2542200	0	0	0	0	0	0
VVIIGAGKPAAVVLQTKGSPESR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	2510900	2243500	1428400	0	0	0	0	0	0
VVILMELEVLK	RPA1; RPA1; RPA1	P27694; I3L524; I	RFA1	HUMA	Oxidation (M)	1428300	656050	1280000	0	0	0	0	0	0
VVILMELEVLKSAEAVGVK	RPA1; RPA1; RPA1	P27694; I3L524; I	RFA1	HUMA	Oxidation (M)	1364100	585090	950040	0	0	0	0	0	0
VVINGQEVK	LTA4H; LTA4H	P09960; B4DEH5	LKHA4	HUM	Deamidation (N)	2416700	621660	3226700	0	0	0	0	0	0
VVINVPIFK	GCLC; GCLC; GCLC	P48506; A0A2R8	GSH1	HUMA	Unmodified	1279100	920290	889400	17266	10553	13187	0	0	0
VVIVDPETNK	DSP	P15924	DESP	HUMA	Unmodified	946010	579030	644330	0	0	0	0	0	0
VVIVDPETNKEMSVQEAYK	DSP	P15924	DESP	HUMA	Oxidation (M)	1613000	2127400	1479300	0	29255	27088	0	0	0
VVIVDPETNKEMSVQEAYKK	DSP	P15924	DESP	HUMA	Oxidation (M)	3539100	2878000	3311200	133970	126620	266760	0	0	0
VVKGGQVEYLLK	CBX5; CBX5	P45973; F8VNY3	CBX5	HUMA	Unmodified	3278400	3420700	3524300	0	0	0	0	0	0
VVKITSEIPQTER	SARNP; SARNP; N/A	P82979; F8VZQ9;	SARNP	HUM	Methyl (KR)	402580	285360	360800	37503	53041	57320	0	0	0
VVKLENGIETTAR	APMAP; APMAP	Q9HDC9; H0Y51(	APMAP	HUM	Deamidation (N)	46494000	44336000	46325000	3443000	3168800	4299600	234960	230220	264390
VVKQASEGPLK	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMAN	Unmodified	858690	907990	973860	0	0	0	0	0	0
VVLAEVIQAFSAPENAVR	C12orf57; C12orf57;	Q99622; F5GXW5	C10	HUMAN	Unmodified	2281300	1288800	2175500	0	0	0	0	0	0
VVLAEVIQAFSAPENAVR	C12orf57; C12orf57;	Q99622; F5GXW5	C10	HUMAN	Deamidation (N)	729250	366520	527490	0	0	0	0	0	0
VVLAPQDVVVAR	PTK7; PTK7	Q13308; Q86X91	PTK7	HUMA	Unmodified	4322400	3081600	3187500	232470	262980	221590	11884	17190	31592
VVLAPRSWARCLTDMRWLR	RCE1; RCE1; RCE1	Q9Y256; E9PI08;	FACE2	HUM	Oxidation (M);3 M	987170	884000	865940	0	0	0	0	0	0
VVLASASPR	ASMTL	O95671	ASML	HUM	Unmodified	573710	427680	656650	0	0	0	0	0	0
VVLATDPDADR	PGM2L1	Q6PCE3	PGM2L	HUM	Unmodified	1567700	1481900	2213200	43611	122570	135130	0	0	0
VVLAYEPVWAIGTGK	TPI1; TPI1; TPI1	P60174; U3KPZ0;	TPIS	HUMA	Unmodified	236880000	294190000	233990000	0	171200	130860	0	24186	32134
VVLAYEPVWAIGTGKTATPQQAQEVHEK	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Unmodified	2050100	2146800	0	0	0	0	0	0	0
VVLAYEPVWAIGTGKTATPQQAQEVHEK	TPI1; TPI1	P60174; U3KPZ0	TPIS	HUMA	Methyl (KR)	1426400	1586700	0	0	0	0	0	0	0
VVLDDKDYFLFR	HSPE1; HSPE1	P61604; B8ZZS4	CH10	HUMA	Unmodified	34431000	35957000	34433000	46036	19593	15653	18124	19150	0
VVLDDKDYFLFRDGDILGK	HSPE1; HSPE1	P61604; B8ZZS4	CH10	HUMA	Unmodified	19384000	10477000	10827000	0	0	0	0	0	0
VVLEAPDETTLKELAETLQQK	PTRHD1	Q6GMV3	PTRD1	HUM	Unmodified	4676000	4393300	3835900	0	0	0	0	0	0
VVLFEMEAR	CPNE3; CPNE3; CPN	O75131; H0YB26	CPNE3	HUM	Oxidation (M)	3689700	4004700	3030800	147790	176650	115930	28049	0	0
VVLGDGVQLPPGDYSTTPGGTLFSTTPGGTR	EIF4EBP1	Q13541	4EBP1	HUM	Unmodified	4608800	2029800	0	0	0	0	0	0	0
VVLGEFGVR	POLR1C; POLR1C; F	O15160; A0A2R8	RPAC1	HUM	Unmodified	4499700	0	6089700	0	0	0	0	0	0
VVLIGDSGVGK	RAB11A; RAB11B; I	P62491; Q15907;	RB11A	HUM	Unmodified	18357000	16724000	14741000	187240	111500	201850	0	0	0
VVLIGDSGVGKSNLLSR	RAB11A; RAB11B; I	P62491; Q15907;	RB11A	HUM	Unmodified	6772300	6730000	5751300	107100	87611	83569	22026	0	0
VVLIGDSGVGKSNLLSR	RAB11A; RAB11B; I	P62491; Q15907;	RB11A	HUM	Deamidation (N)	6069400	4975400	4370000	0	0	0	0	0	0
VVLLAEGR	AHCYL1	O43865	SAHH2	HUM	Unmodified	0	1726600	0	90818	83445	0	0	0	0
VVLLEDLASQVGLR	DDRGK1; DDRGK1	Q96HY6; A0A0A	DDRGK	HUM	Unmodified	0	0	60335	0	0	0	0	0	0
VVLLGEFLHPCEDDIVCK	GAR1	Q9NY12	GAR1	HUMA	Unmodified	0	377170	0	0	0	0	0	0	0
VVLLTEVDKLTK	RFC3	P40938	RFC3	HUMA	Unmodified	457670	0	483620	0	0	0	0	0	0
VVLPIEAPIR	MT-CO2	P00403	COX2	HUMA	Unmodified	19163000	14913000	17676000	0	251780	0	24076	24089	0
VVLPTFILEK	OSBPL10; OSBPL11;	Q9BXB5; Q9BXB	OSB10	HUM	Unmodified	993860	616660	1100600	0	0	0	0	0	0
VVLPTFILEPR	OSBPL8; OSBPL8; O	Q9BZF1; F8VQX7	OSBL8	HUM	Unmodified	1121000	744950	1026500	0	0	0	0	0	0
VVLPTFILER	OSBPL9	Q96SU4	OSBL9	HUM	Unmodified	876310	455720	829330	0	0	0	0	0	0
VVLPTLASLR	PLCB3	Q01970	PLCB3	HUM	Unmodified	1683800	1882300	1602000	0	6286.2	0	0	0	0
VVLPYLVPK	GCN1	Q92616	GCN1	HUM	Unmodified	0	1100800	728910	16690	16571	14036	0	0	0
VVLQELR	OR56B2P; UBE2V2;	Q8NGI1; Q15819;	O56B2	HUM	Unmodified	3571100	2024800	3552700	0	0	0	0	0	0
VVLTAEVSGGSR	SORT1; SORT1; SOR	Q99523; A0A0J9	SORT	HUM	Unmodified	1569500	1151700	1059700	0	0	0	0	0	0
VVLTQANK	SEC31A; SEC31A; SI	O94979; H0Y8W8	SC31A	HUM	Unmodified	4937100	784220	4748200	0	25868	0	0	0	0
VVLTQANKLGV	SEC31A; SEC31A; SI	O94979; H0Y8W8	SC31A	HUM	Unmodified	1377600	1497500	1393500	221800	170530	175930	0	32012	0
VVLTQANKLGV	SEC31A; SEC31A; SI	O94979; H0Y8W8	SC31A	HUM	Deamidation (N)	1603100	668700	0	64848	0	0	0	0	0
VVLVDRK	DSP	P15924	DESP	HUMA	Unmodified	1776700	1069300	1585400	0	0	0	0	0	0
VVLVLAGR	RPL27; RPL27; RPL2	P61353; K7EQQ9	RL27	HUMA	Unmodified	263340	236680	299460	0	0	0	5508.2	0	0
VVLVSSASDIPVQSHR	UTRN	P46939	UTRN	HUM	Unmodified	1743000	2457200	1855800	193480	186780	163130	22418	46904	22749
VVLVTGAGAGLGR	HSD17B4; HSD17B4	P51659; A0A2R8	DHB4	HUMA	Unmodified	1230900	860900	880340	40550	0	27798	0	0	0
VVMDGVISDIHECQELQR	P3H1; P3H1	Q32P28; H7C2W6	P3H1	HUMA	Oxidation (M)	1031900	1508500	758010	71930	89115	133390	0	0	0
VVMRVDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUMA	2 Oxidation (M);2 I	16371000	1291400	5288000	405290	600020	273080	0	0	0
VVMRVDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUMA	2 Oxidation (M);3 I	8698300	15938000	9638000	239740	143820	0	0	0	0
VVMRVDFNVPMKNNQITNNQR	PGK1	P00558	PGK1	HUMA	2 Oxidation (M);De	411450	308910	3308300	103500	0	0	0	0	0
VVMRVDFNVPMKNNQITNNQRIK	PGK1	P00558	PGK1	HUMA	2 Oxidation (M);3 I	2465100	1187800	1606300	0	0	0	0	0	0
VVNGKVEYFLK	CBX3; CBX3; CBX3;	Q13185; S4R2Y4;	CBX3	HUMA	Deamidation (N)	26333000	21783000	21117000	361120	379110	348680	0	0	0
VVNGPEILNK	NSF; NSF	P46459; I3L0N3	NSF	HUMAN	Deamidation (N)	1349600	1874900	1845300	55634	0	39269	0	0	0
VVNGPEILNKYVGESEANIR	NSF; NSF	P46459; I3L0N3	NSF	HUMAN	2 Deamidation (N)	1540800	491130	1269500	0	0	0	0	0	0
VVNGPEILNKYVGESEANIR	NSF; NSF	P46459; I3L0N3	NSF	HUMAN	Deamidation (N)	1543600	2105900	2029600	0	0	0	0	0	0
VVNISSMLGR	BDH1; BDH1; BDH1	Q02338; E9PCG9;	BDH	HUMA	Oxidation (M)	1445400	3216300	3340500	49117	0	0	0	0	0
VVNITSPGHDASSR	ELF2	Q15723	ELF2	HUMA	Unmodified	918750	845830	1240900	47157	84071	43858	0	0	0
VVNIVPVIAK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EK1	SEPT9	HUM	Unmodified	7950000	5663900	8632600	0	0	47063	0	0	0
VVNIVPVIAKADTLTLEER	SEPTIN9; SEPTIN9;	Q9UHD8; K7EL4(	SEPT9	HUM	Unmodified	0	423330	413130	0	0	0	0	0	0
VVNLGVLAQK	WDR36; WDR36	Q8NI36; A0A0A0	WDR36	HUM	Unmodified	834660	767580	1084600	0	0	0	0	0	0
VVNPLFEK	RPL7A; RPL7A	P62424; Q5T8U3	RL7A	HUMA	Unmodified	4760700	5166200	5108700	119650	142430	223540	0	0	0
VVNTDHGSPEQLQIPVTDSGR	SDE2	Q6IQ49	SDE2	HUMA	Unmodified	0	456140	184760	0	0	0	0	0	0
VVNVSSIMSVR	CBR1	P16152	CBR1	HUMA	Oxidation (M)	13948000	15194000	12938000	1123100	1258300	1203300	149650	170850	144160
VVNVSSIMSVR	CBR1	P16152	CBR1	HUMA	Oxidation (M);Dea	1639700	903400	1124900	53599	44749	61338	0	0	0
VVNYLPR	LRBA; LRBA; LRBA	P50851; A0A494	LRBA	HUM	Unmodified	0	485000	0	0	0	0	0	0	0
VVPEMTEILK	ETFA; ETFA; ETFA	P13804; H0YL83;	ETFA	HUMA	Oxidation (M)	2065500	1587300	1551900	72133	68065	0	0	0	0
VVPGFIVQGGDPTGTGSGGESIYGAPFKDEFHSR	CWC27; CWC27	Q6UX04; D6REK	CWC27	HUM	Unmodified	4682800	1544400	0	0	0	0	0	0	0
VVPGYGHAVLR	CS; CS; CS; CS	O75390; A0A0C4	CISY	HUMA	Unmodified	3945000	2917800	2449200	180750	180560	156670	0	0	0
VVPIASLTPYQSK	RPA1	P27694	RFA1	HUMA	Unmodified	5545100	5675600	5466200	36006	20096	24838	0	0	0
VVPLADIITPNQFEAELLSGR	PDXK; PDXK	O00764; F2Z2Y4	PDXK	HUM	Unmodified	255550	0	179130	0	0	0	0	0	0
VVPLADIITPNQFEAELLSGR	PDXK; PDXK	O00764; F2Z2Y4	PDXK	HUM	Deamidation (N)	140040	0	0	0	0	0	0	0	0
VVPLADIITPNQFEAELLSGRK	PDXK; PDXK	O00764; F2Z2Y4	PDXK	HUM	Unmodified	979830	519440	916800	0	0	0	0	0	0
VVPQQITHTSPR	SAP130; SAP130; SA	Q9H0E3; A0A2R8	SP130	HUM	Unmodified	3136300	3200300	4322700	150400	323820	314830	0	19188	26033
VVPSFLPVDQGGSLVGR	DSG2	Q14126	DSG2	HUMA	Unmodified	915790	941820	828300	0	0	0	0	0	0
VVPTTDHIDTEK	TIPRL	O75663	TIPRL	HUM	Unmodified	901320	651300	672390	16333	11420	0	0	0	0
VVPTVVMKVDGEVLR	ERGIC3; ERGIC3; EI	Q9Y282; A0A1W	ERGI3	HUM	Oxidation (M)	1028800	588070	1018800	0	0	15763	0	0	0
VVPVRLDLTEKDYEILFK	GGH; GGH; GGH; GI	Q92820; A0A7I2V	GGH	HUMA	Unmodified	2353500	1104500	1428200	0	0	0	0	0	0
VVQCSDLGLDKVPK	DCN; DCN; DCN; DC	P07585; F8VUF6;	PGS2	HUMA	Unmodified	0	0	0	302460	183790	340190	113710	113110	0

VVQCSDLGLK	BGN; BGN	P21810; C9JKG1	PGS1	HUMA	Unmodified	2698000	2878000	2601700	537500	593720	572410	326070	263520	319330
VVQEENQHMQMTIQALQDELR	ERC1; ERC1; ERC1;	Q8IUD2; K7EPP6	RBI62	HUMA	2 Oxidation (M)	1014000	847820	0	0	0	0	0	0	0
VVQLHEYSEELEK	SMC1A; SMC1A; SN	Q14683; G8JLG1;	SMC1A	HUM	Unmodified	1192500	1148800	469250	0	0	0	0	0	0
VVQSMTQLVR	UBE2O; UBE2O	Q9C0C9; K7ES11	UBE2O	HUM	Oxidation (M)	0	0	0	0	0	0	0	0	0
VVQVSAGDSHTAALTDDGR	RCC1; RCC1; RCC1;	P18754; C9JQZ4;	RCC1	HUMA	Unmodified	0	1126700	1721100	33922	37658	36753	0	0	0
VVQVVKPHTPLIR	MRPS36	P82909	RT36	HUMA	Unmodified	942700	998080	807330	0	0	0	0	0	0
VVSEDFLQDVSASTK	PARP1; PARP1	P09874; A0A7Z7V	PARP1	HUM	Unmodified	14372000	14676000	19944000	0	0	0	0	0	0
VVSEIPVLK	UFC1	Q9Y3C8	UFC1	HUMA	Unmodified	11552000	9538300	8784900	371760	360670	394550	0	0	35369
VVSETNDTK	KRT18	P05783	K1C18	HUM	Deamidation (N)	726380	520790	1037800	279190	262210	279420	0	0	0
VVSETNDTK	KRT18	P05783	K1C18	HUM	Unmodified	229410	250840	318900	0	79269	86784	0	0	0
VVSETNDTKVLR	KRT18	P05783	K1C18	HUM	Deamidation (N)	0	0	0	0	0	0	0	0	0
VVSETNDTKVLR	KRT18	P05783	K1C18	HUM	Unmodified	0	0	0	0	41328	69313	0	0	0
VVSETNDTKVLRH	KRT18	P05783	K1C18	HUM	Deamidation (N)	2512200	3357000	4768500	1651200	1711500	1868500	215920	11568	214420
VVSETNDTKVLRH	KRT18	P05783	K1C18	HUM	Unmodified	0	0	0	809690	987560	287330	81730	0	187520
VVSHPTLPVTITAHEDR	STRN3	Q13033	STRN3	HUM	Unmodified	866380	912220	901840	0	0	0	0	0	0
VVSLSEYR	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	5270100	8018800	4008400	62701	0	0	0	0	0
VVSPWNSEDAK	PDHB; PDHB; PDHB	P11177; F8WF02;	ODPB	HUMA	Deamidation (N)	625320	560030	695510	0	0	0	0	0	0
VVSPWNSEDAKGLIK	PDHB; PDHB; PDHB	P11177; F8WF02;	ODPB	HUMA	Deamidation (N)	2204800	3662500	3102000	12584	31335	0	0	0	0
VVSQLLR	POLD1; POLD1; POL	P28340; A0A2R8	DPOD1	HUM	Unmodified	1220100	1211700	1043200	0	0	0	0	0	0
VVSQYHELVVQAR	IMMT; IMMT; IMM1	Q16891; B9A067;	MIC60	HUM	Unmodified	977430	1145600	1877800	0	287300	246440	0	0	0
VVSQYSSLLSPMSVNAVMK	CCT4	P50991	TCPD	HUMA	2 Oxidation (M)	1871500	1871500	0	24874	0	0	0	0	0
VVSQYSSLLSPMSVNAVMK	CCT4	P50991	TCPD	HUMA	2 Oxidation (M);De	1574200	1781300	3687900	0	26288	0	0	0	0
VVSSIEQK	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z	HUMA	Unmodified	92042000	72498000	80227000	1618100	1847600	2120900	0	0	0
VVSSIEQKTEGAEK	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z	HUMA	Unmodified	49051000	43583000	40624000	618720	634140	1098600	12780	17469	0
VVSSIEQKTEGAEK	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z	HUMA	Methyl (KR)	9740000	11285000	11540000	0	0	0	0	0	0
VVSSIEQKTEGAEKK	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z	HUMA	Unmodified	33428000	27217000	17221000	235270	312940	1936300	0	0	0
VVSSIEQKTEGAEKK	YWHAZ; YWHAZ; Y	P63104; E5RIR4;	1433Z	HUMA	Methyl (KR)	965200	1071400	1525200	0	0	0	0	0	0
VVSSIEQKTEGAEKKQQMAR	YWHAZ; YWHAZ; Y	P63104; E7ESK7;	1433Z	HUMA	Oxidation (M)	49316000	57320000	62491000	1518300	1867500	1483200	0	84260	0
VVSSSIVDKYIGESAR	PSMC6; PSMC6; PSI	P62333; A0A0B73	PRS10	HUM	Unmodified	4385400	3471600	3863700	0	0	0	0	0	0
VVSVDENFR	PZP	P20742	PZP	HUMA	Unmodified	0	0	0	1874100	0	0	0	0	0
VVSVLTVLHQDWLNGK	IGHG4; IGHG3; IGH	P01861; P01860; I	IGHG4	HUM	Deamidation (N)	677730	392070	794190	0	0	0	0	0	0
VVSVLTVLHQDWLNGKEYK	IGHG4; IGHG3; IGH	P01861; P01860; I	IGHG4	HUM	Deamidation (N)	9465200	7650900	10971000	0	0	0	0	0	0
VVSVLTVLHQDWLNGKEYK	IGHG4; IGHG3; IGH	P01861; P01860; I	IGHG4	HUM	Methyl (KR);Deam	267760	428370	0	0	0	0	0	0	0
VVSVLTVVHQDWLNGKEYK	IGHG2; IGHG2	P01859; A0A286	IGHG2	HUM	Deamidation (N)	894800	2958400	2374100	0	0	0	0	0	0
VVTATLWGEDADKFDGSR	RPA1; RPA1	P27694; I3L4R8	RFA1	HUMA	Unmodified	1977300	1954000	750340	0	0	0	0	0	0
VVTDLISLIR	COIL	P38432	COIL	HUMA	Unmodified	705790	549030	629270	0	0	0	0	0	0
VVTDTDETELAR	EIF2S1	P05198	IF2A	HUMA	Unmodified	11299000	12422000	11369000	617100	743140	809720	0	0	0
VVTDTDETELARQMER	EIF2S1	P05198	IF2A	HUMA	Oxidation (M)	1409600	1353800	2281500	158310	0	0	0	0	0
VVTMEVEAR	CPNE1; CPNE1; CPN	Q99829; Q5JX55;	CPNE1	HUM	Oxidation (M)	6500900	6935600	6501700	570180	134580	125840	0	0	0
VVTVVTK	DDX46; DDX46; DD	Q7L014; A0A0C4	DDX46	HUM	Unmodified	2356600	2392700	2423900	52582	63599	68402	0	0	0
VVTYGMANLLTGPK	VAT1; VAT1	Q99536; K7ESA3	VAT1	HUMA	Oxidation (M)	2163500	1919200	1483700	52485	0	0	0	0	0
VVTYGMANLLTGPKR	VAT1; VAT1	Q99536; K7ESA3	VAT1	HUMA	Oxidation (M)	0	859210	0	0	0	0	0	0	0
VVTYGMANLLTGPKR	VAT1; VAT1	Q99536; K7ESA3	VAT1	HUMA	Oxidation (M);Deai	0	0	0	0	0	0	0	0	0
VVVDALSGLKGDLAGR	CKMT1A; CKMT1B;	P12532; C9JSQ1;	KCRU	HUM	Unmodified	2722800	3287000	2921900	0	0	0	0	0	0
VVVDPVVTEQPSTSSAAK	PHIP	Q8WWQ0	PHIP	HUMA	Unmodified	1256700	1237400	0	0	0	0	0	0	0
VVVEPVGPVGFKPETFR	MRPL37; MRPL37	Q9BZE1; A6NHR	RM37	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
VVVEPVGPVGFKPETFRK	MRPL37; MRPL37	Q9BZE1; A6NHR	RM37	HUMA	Unmodified	3091400	2846100	2523600	0	20807	0	0	0	0
VVVHKETELAEEGED	EPB41L2; EPB41L2;	O43491; Q6ZSX4;	E41L2	HUM	Unmodified	756470	882300	518770	1097600	1189200	911800	140600	169550	173080
VVVHPLVLLSVVDHFNR	PSMD7; PSMD7; PSI	P51665; H3BTM8	PSMD7	HUM	Unmodified	611570	241940	621780	0	0	0	0	0	0
VVVHQETEIADE	EPB41; EPB41; EPB	P11171; A0A3B3I	EPB41	HUM	Unmodified	1749400	2306400	1608700	227400	279370	280840	0	0	0
VVVITQNIDELHR	SIRT5; SIRT5; SIRT5	Q9NXA8; A0A7P	SIR5	HUMA	Unmodified	1633700	1082300	806080	15774	0	18333	0	0	0
VVVLGLLPR	PAFAH1B3; PAFAH	Q15102; M0R389	PA1B3	HUM	Unmodified	58746000	53440000	61803000	181330	170880	136400	0	0	0
VVVLMGKNTMMR	RPLP0P6	Q8NHW5	RLA0L	HUM	2 Oxidation (M);M	0	624130	618950	0	0	0	0	0	0
VVVLMGSTSDLGHCEK	PAICS; PAICS; PAIC	P22234; D6RF62;	PUR6	HUMA	Oxidation (M)	2461300	1957800	2699300	0	84647	115430	0	0	0
VVVPELSAGVASR	PHIP	Q8WWQ0	PHIP	HUMA	Unmodified	1027700	770400	886880	0	0	19549	0	0	0
VVVPEVPLGIFR	BRWD1; BRWD1; BI	Q9NSI6; H7BZR9	BRWD1	HUM	Unmodified	261940	231390	234550	0	0	0	0	0	0
VVVTDDSDER	MYBBP1A; MYBBP	Q9BQG0; I3L1L3	MBB1A	HUM	Unmodified	471340	0	268800	0	0	0	0	0	0
VVVTVEQTEEELER	SPTLC1	O15269	SPTC1	HUM	Unmodified	4075000	1331200	2483400	13287	0	0	0	0	0
VVWVEESDKR	DDX3X; DDX3X; DE	O00571; A0A2R8	DDX3X	HUM	Unmodified	4732300	3303200	1529200	0	0	0	0	0	0
VVYFGDSMHSDIFPAR	NT5DC1	Q5TFE4	NT5D1	HUM	Oxidation (M)	1205900	1117400	1369600	23996	0	20457	0	0	0
VVYIFGPPVK	GMPS	P49915	GUAA	HUM	Unmodified	1053600	1082400	860100	0	0	0	0	0	0
VVYIFGPPVKEPPTDVTPTFLTTGVLSTLR	GMPS	P49915	GUAA	HUM	Methyl (KR)	79719	0	73976	0	0	0	0	0	0
VVYPLEK	DKC1; DKC1; DKC1	O60832; C9IYT0;	DKC1	HUM	Unmodified	571010	441720	570510	0	0	0	0	0	0
VVYPSKADLATAPPHVTVVR	LRRC47	Q8N1G4	LRC47	HUM	Unmodified	1154800	1328600	1409600	83151	0	0	0	0	0
VVYSAFLMATPR	EFTUD2	Q15029	US51	HUMA	Oxidation (M)	1047700	867630	653090	0	0	0	0	0	0
VVYSPVDGTRPSESIVVPGNTR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	0	1896100	2058500	1009800	183450	112030	85488
VVYSPVDGTRPSESIVVPGNTR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Deamidation (N)	0	145850	0	635010	499720	543770	68305	76129	102190
VWAEYALK	PRPF8	Q6P2Q9	PRP8	HUMA	Unmodified	1621300	1696600	2271100	46294	0	0	0	0	0
VWALFDVRPECQR	UHRF2; UHRF2	Q96PU4; B1AL33	UHRF2	HUM	Unmodified	333990	216480	313790	0	0	0	0	0	0
VWDAVSGDELMTLAHK	STRAP	Q9Y3F4	STRAP	HUM	Oxidation (M)	2158600	1984100	1947800	0	0	0	0	0	0
VWDISGLR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUMA	Unmodified	1888700	2317700	3366500	141610	67121	0	10883	11340	11428
VWDVRPFAPK	SNRNP40; SNRNP40	Q96DI7; Q9NSS8	SNR40	HUM	Unmodified	1531800	2311500	2247100	46063	0	41301	0	0	0
VWDYETGDFER	PAFAH1B1; PAFAH	P43034; A0A6Q8I	LIS1	HUMA	Unmodified	436050	908650	840480	0	0	0	0	0	0
VWGNVGTVEWADPIEDPDPEVMAK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ	HUM	Oxidation (M)	1654800	1287600	1271400	0	0	0	0	0	0
VWGVPIPVFHHK	IARS2	Q9NSE4	SYIM	HUMA	Unmodified	1874300	1550900	1662400	0	0	0	0	0	0
VWLDKSLFDQAESSYR	EEF1D; EEF1D; EEF	E9PJV8; E9PRL0;	E9PJV8	HUM	Unmodified	432280	289170	289960	0	0	0	0	0	0
VWQVTIGTR	RACK1; RACK1; RA	P63244; D6RAC2	RACK1	HUM	Unmodified	10827000	10170000	15587000	181770	250290	197220	31607	32322	28221
VWSRNEDITEPQSILAAAEK	GSTK1; GSTK1	Q9Y2Q3; E9PFN5	GSTK1	HUM	Deamidation (N)	0	611000	836940	0	0	0	0	0	0
VWWMFR	MPST; TST; MPST;	P25325; Q16762;	THTM	HUMA	Oxidation (M)	0	911180	941870	0	0	0	0	0	0
VWYVSNIDGTHIAK	GPI; GPI; GPI; GPI; C	P06744; A0A0J9Y	G6PI	HUMA	Unmodified	13084000	11656000	7730200	0	36862	53217	0	0	0
VYAAATEDMDCLTFGSPVLMR	FEN1	P39748	FEN1	HUMA	2 Oxidation (M)	0	1207800	1564800	0	0	0	0	0	0
VYAEDPYKSFGLPSIGR	PCCA; PCCA	P05165; A0A1B0	PCCA	HUM	Unmodified	476500	0	310690	0	0	0	0	0	0
VYAENAIR	CHMP1A; CHMP1A;	Q9HD42; F8VVT7;	CHM1A	HUM	Unmodified	1073900	2943100	1062000	39111	0	38783	0	0	0
VYAILTHGIFSGPAISR	PRPS2; PRPS1; PRPS	P11908; P60891; I	PRPS2	HUM	Unmodified	2835000	3659700	4757400	12524	0	0	0	0	0
VYALPEDLVEVNPK	LCP1	P13796	PLSL	HUMA	Unmodified	0	3303900	0	25879	0	0	23110	21733	
VYAPASTLVDQPYANEGTVVVTER	DSG2	Q14126	DSG2	HUMA	Deamidation (N)	2075900	1975600	1757600	0	0	0	0	0	0
VYAPASTLVDQPYANEGTVVVTER	DSG2	Q14126	DSG2	HUMA	Unmodified	3015200	0	1879200	20324	0	0	0	0	0
VYCENQPMLPIGLSDIPGEAMVK	CSNK2B; CSNK2B; (	P67870; Q5SRQ6;	CSK2B	HUM	2 Oxidation (M)	1912200	0	2161800	0	0	0	0	0	0
VYDPSTSTLNVR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	406970	924070	657250	804540	37509	58086	53491
VYDQMPEPR	NDUFS7; NDUFS7; I	O75251; F5H5N1;	NDUS7	HUM	Oxidation (M)	620570	930280	768200	149880	151670	205960	0	0	0
VYDQVGTQEFEDVSYESTLK	THOP1; THOP1	P52888; K7EKB6	THOP1	HUM	Unmodified	988650	3083100	2520900	0	0	0	0	0	0
VYEELRATGAAAAEAK	ABCF1; ABCF1; ABI	Q8NE71; H0YGW	ABCF1	HUM	Unmodified	1107500	385530	1171300	145620	49476	0	0	0	0
VYEFLDKLDVVR	PSMD3; PSMD3	O43242; H0YGV8	PSMD3	HUM	Unmodified	1725800	1739400	2096600	0	0	0	0	0	0
VYEGERPLTK	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMA	Unmodified	10074000	6578700	7981100	286640	296310	296450	0	0	0
VYEGERPLTKDNHLLGTFDLTGIPPAPR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMA	Unmodified	11592000	7439700	4601900	0	0	0	0	0	0
VYEGERPLTKDNHLLGTFDLTGIPPAPR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMA	Deamidation (N)	29452000	25181000	23386000	0	0	12901	0	0	0
VYEGERPLTKDNHLLGTFDLTGIPPAPR	HSPA5; HSPA5	P11021; A0A7P0	BIP	HUMA	Methyl (KR);Deam	1166300	1022700	1465000	0	0	0	0	0	0
VYEIPGLEPITFAGK	MRPL37; MRPL37	Q9BZE1; S4R369	RM37	HUMA	Unmodified	2119100	2303800	3165700	0	0	0	0	0	0
VYENVGLMQQQK	PTPN11	Q06124	PTN11	HUM	Oxidation (M)	3084700	3173500	1690300	276370	61399	211760	0	0	0
VYENYPTYDLTER	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	1495700	1245100	1268500	0	0	0	0	0	0
VYENYPTYDLTERKDFIK	DEK; DEK; DEK; DE	P35659; B4DFG0;	DEK	HUMA	Unmodified	1087200	1291600	949110	0	0	0	0	0	0
VYFPYLLISK	POLD1; POLD1; POL	P28340; M0QXE6	DPOD1	HUM	Unmodified	473580	0	507360	0	0	0	0	0	0
VYFQSPPGAAGEGPGGADDEGPVR	PPP1R14B	Q96C90	PP14B	HUM	Unmodified	2176400	2106500	958320	27923	37249	0	0	0	0
VYFQSPPGAAGEGPGGADDEGPVRR	PPP1R14B	Q96C90	PP14B	HUM	Unmodified	11262000	10741000	10393000	554640	492390	434550	90238	53450	40901
VYGELMR	FNBP1L	Q5T0N5	FBP1L	HUM	Oxidation (M)	0	1229800	678990	0	0	30910	0	0	0
VYGGLTTK	PDCD6IP	Q8WUM4	PDC6I	HUM	Unmodified	2378300	1132900	735380	0	0	0	0	0	0
VYGVESDLSEVAR	MVD; MVD	P53602; H3BP35	MVD1	HUM	Unmodified	1410800	1215000	1362400	46292	53504	54074	0	0	0
VYIASSSGSTAIK	SH3BGRL	O75368	SH3L1	HUM	Unmodified	8458700	7816300	7303500	109710	85482	66785	0	0	0
VYIASSSGSTAIKK	SH3BGRL	O75368	SH3L1	HUM	Unmodified	1571700	1803900	2242300	0	0	0	0	0	0
VYLATDDPSLLKEAK	FUT8; FUT8; FUT8	Q9BYC5; A0A669	FUT8	HUMA	Unmodified	1055100	0	1091400	0	0	27578	0	0	0
VYLLYRPGHYDILYK	OTUB1; OTUB1; OT	Q96FW1; J3KR44	OTUB1	HUM	Unmodified	27492000	24215000	17890000	0	0	0	27184	0	0
VYLQNEYK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Deamidation (N)	826950	594830	561760	0	0	0	0	0	0
VYLQNEYKFSPTDFLAK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Unmodified	889970	1121600	705740	0	0	0	0	0	0
VYLQNEYKFSPTDFLAK	LRPPRC; LRPPRC; I	P42704; B8ZZ38;	LPPRC	HUM	Deamidation (N)	1265400	1440800	1107700	0	0	0	0	0	0
VYNIEFNPPK	AK3	Q9UIJ7	KAD3	HUMA	Unmodified	1527100	1705300	1411500	73015	100060	94491	0	0	0
VYNLDFNPPHVHGIDDVTGEPLVQQEDDKPEAVAAR	AK4; AK4	P27144; F8VS11	KAD4	HUMA	Unmodified	0	3184800	4679700	0	0	0	0	0	0
VYNWDVK	VBP1	P61758	PFD3	HUMA	Unmodified	2439400	2556300	2084300	0	0	0	0	0	0
VYPAEPELQSHQASAAR	ACAD10; ACAD10;	Q6JQN1; F8VXK4	ACD10	HUM	Unmodified	0	535030	428790	0	0	0	0	0	0
VYQLGGTR	RTF1	Q92541	RTF1	HUMA	Unmodified	861520	1053800	721570	0	0	0	13148	11103	0
VYQWDDPDPR	FASN; FASN	P49327; A0A0U1I	FAS	HUMA	Unmodified	2435600	2370300	2173200	175870	124120	96622	0	0	0
VYRIEGDETSTEAATR	POLR2H; POLR2H	P52434; C9JLU1	RPAB3	HUM	Unmodified	1353400	1630800	663540	0	0	0	0	0	0
VYSLDDIR	MCM6	Q14566	MCM6	HUM	Unmodified	803870	2659400	2835000	129700	134960	139830	0	0	0
VYSLFLDESR	RUVBL2	Q9Y230	RUVB2	HUM	Unmodified	13252000	16973000	14520000	0	0	400880	0	0	0
VYSPHVLNLTLIDLPGITK	DNM3; DNM2; DNM	Q9UQ16; P50570;	DYN3	HUMA	Unmodified	1511300	802020	1442000	0	0	0	0	0	0
VYSPHVLNLTLIDLPGITK	DNM3; DNM2; DNM	Q9UQ16; P50570;	DYN3	HUMA	Deamidation (N)	180520	0	0	0	0	0	0	0	0
VYSPHVLNLTLVDLPGMTK	DNM1; DNM1; DNM	Q05193; A0A0D9	DYN1	HUMA	Oxidation (M)	2779700	2346900	2681300	28185	0	0	0	0	0
VYSRGDSEPLSEAAQAHTR	RNF40; RNF40; RNF	O75150; H3BP71;	BRE1B	HUM	Unmodified	1066700	1053100	1598800	0	0	0	0	0	0
VYSTALSSFLTK	MYBBP1A; MYBBP	Q9BQG0; I3L1L3	MBB1A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VYSTSVTGSR	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Unmodified	45978000	50639000	46550000	963390	1105600	611660	29124	32147	0
VYSTSVTGSREIK	SH3BGRL3; SH3BGI	Q9H299; Q5T123	SH3L3	HUM	Unmodified	2480800	2366900	3163400	209460	251430	99560	0	0	0
VYSVLSDR	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	0	1090800	0	247340	221330	265510	29740	0	26327
VYSVLSDREQR	DNAJC9	Q8WXX5	DNJC9	HUM	Unmodified	6045900	6222700	5237700	24557	0	0	0	0	0

VYSYALALK	NUDT5; NUDT5	Q9UKK9; A6NFX	NUDT5	HUM	Unmodified	12302000	9902300	10364000	70475	53008	61872	0	0	0
VYTISDTIAR	LARS2; LARS2; LAR	Q15031; A0A494	SYLM	HUM	Unmodified	1734100	889960	1711800	0	0	32675	0	0	0
VYTLSVSGDR	BUB3; BUB3	O43684; J3QT28	BUB3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
VYVGNLGNNGNKTELER	SRSF3; SRSF3	P84103; A0A087	SRSF3	HUM	2 Deamidation (N)	7039500	8558100	9277200	354240	560040	454830	0	0	0
VYVGNLGNNGNKTELER	SRSF3; SRSF3	P84103; A0A087	SRSF3	HUM	3 Deamidation (N)	6550200	5647500	4692800	99426	0	0	0	0	0
VYVGNLGNNGNKTELER	SRSF3; SRSF3	P84103; A0A087	SRSF3	HUM	Deamidation (N)	10977000	7823300	8652000	215190	218060	368750	0	56656	0
VYVGNLGNNGNKTELER	SRSF3; SRSF3	P84103; A0A087	SRSF3	HUM	4 Deamidation (N)	0	420270	956100	34708	0	0	0	0	0
VYVGNLGTGAGK	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Unmodified	6461400	5279000	4712000	227460	221820	195320	0	0	0
VYVGNLGTGAGK	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Deamidation (N)	891610	1241200	1251700	46874	50719	64342	0	0	0
VYVGNLGTGAGKGELER	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Unmodified	42831000	43056000	40357000	2107800	2911200	2403500	0	0	0
VYVGNLGTGAGKGELER	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7	HUM	Deamidation (N)	14043000	15226000	17244000	390210	366150	487690	33075	64594	26792
VYVGSIYYELGEDTIR	PUF60; PUF60; PUF	Q9UHX1; E9PMU	PUF60	HUM	Unmodified	2780800	1681300	2351100	0	0	0	0	0	0
VYVIEPHSMEFAPCQVEAR	NUP210	Q8TEM1	PO210	HUM	Oxidation (M)	0	1253500	1110800	0	0	26519	0	0	0
VYVINKEICVR	MFAP2	P55001	MFAP2	HUM	Unmodified	0	0	0	234260	130140	142930	418730	364860	307260
VYVPTGFSAFPFELLHTPEK	EPHX1	P07099	HYEP	HUM	Unmodified	412380	233940	431790	0	0	0	0	0	0
VYVTEKVAQIK	SCIN	Q9Y6U3	ADSV	HUM	Unmodified	653990	834930	733060	0	0	0	0	0	0
VYVTEKVAQIK	SCIN	Q9Y6U3	ADSV	HUM	Methyl (KR)	747500	720020	837490	0	0	0	0	0	0
VYYTAGYNSPVK	HEBP2	Q9Y5Z4	HEBP2	HUM	Unmodified	825100	817230	566060	0	0	0	0	0	0
WAAHGASPEDFSLTLGAR	PHLDB1	Q86UU1	PHLB1	HUM	Unmodified	386480	375110	390360	0	0	0	0	0	18704
WAASLENLLEDPEGVKR	RGS10	O43665	RGS10	HUM	Unmodified	0	523570	0	0	0	0	0	0	0
WAAVVVPSGEEQR	HLA-E; HLA-B; HLA	P13747; P01889;	HLAE	HUM	Unmodified	0	0	0	0	120890	113850	0	0	0
WAAVVVPSGQEQR	HLA-C; HLA-A; HLA	P10321; Q53Z42;	HLAC	HUM	Unmodified	2634000	2142800	3688500	0	0	0	0	0	0
WAELLPLLQQCQVVR	RNH1; RNH1; RNH1	P13489; E9PIK5;	RINI	HUMAN	Unmodified	1150200	818980	1111600	0	0	0	0	0	0
WAEQYLK	ERP29; ERP29	P30040; F8VY02	ERP29	HUM	Unmodified	9082600	7530800	6549200	69737	58226	43535	0	0	0
WAIAQLNYADMLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	174200	230190	203590	0	0	0	0	0	0
WAIAQLNYADMLKR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	588040	594650	1216400	0	0	0	0	0	0
WALSQSNPSALR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Unmodified	17489000	18173000	16952000	315470	288060	467660	0	0	0
WAPTPERLQELSAAYR	PCIF1	Q9H4Z3	CAPAM	HUM	Unmodified	1912100	0	1319900	0	0	0	0	0	0
WARPPISMNFEVPFAPSGLK	AP2M1; AP2M1; AP	Q96CW1; E9PFW	AP2M1	HUM	Oxidation (M)	1779600	1246100	2289600	0	0	0	0	0	0
WARPPISMNFEVPFAPSGLK	AP2M1; AP2M1; AP	Q96CW1; E9PFW	AP2M1	HUM	Oxidation (M);Deai	723660	690020	767140	0	0	0	0	0	0
WASVVPSGQEQR	HLA-A; HLA-A; HLA	Q9GJ45; A0A1W2	Q9GJ45	HUM	Unmodified	1708500	1635400	2000600	37903	30185	0	0	0	0
WCRPTSLNVVR	EIF2B5; EIF2B5; EIF	Q13144; A0A3B3	EI2BE	HUM	Methyl (KR)	1777100	1211300	992900	45699	38648	37070	0	0	0
WDETKGEDNIDFMPTILSR	MCM5; MCM5	P33992; B1AHB1	MCM5	HUM	Oxidation (M)	0	1309200	0	0	0	0	0	0	0
WDETPASQMGGSTPVLTPGK	SF3B1	O75533	SF3B1	HUM	Oxidation (M)	1601500	2006200	2589200	0	60686	43185	0	0	13943
WDETPGR	SF3B1	O75533	SF3B1	HUM	Unmodified	3619700	2405200	2709900	209040	145420	151000	0	0	0
WDLFREDLVR	POGLUT1; POGLUT	Q8NBL1; H7C5H	PGLT1	HUM	Unmodified	961940	1260700	1135800	0	0	0	0	0	0
WDLSAQQIEER	THOP1; THOP1	P52888; K7EKB6	THOP1	HUM	Unmodified	1441200	1151200	913650	0	0	0	0	0	0
WDPAPGPVLQYR	COL12A1; COL12A1	Q99715; D6RGG3	COCA1	HUM	Unmodified	0	0	0	427690	377800	385560	0	0	0
WDQSTFLGR	SFXN3; SFXN3; SFX	Q9BWM7; S4R3N	SFXN3	HUM	Unmodified	33627000	29753000	27288000	198270	313960	349300	0	0	0
WDQTADQTPGATPK	SF3B1	O75533	SF3B1	HUM	Unmodified	1272600	1217200	0	75273	77337	188390	0	0	0
WDTGENPIYK	ITGB1; ITGB1; ITGB	P05556; H7C4K3;	ITB1	HUMA	Unmodified	3738600	3025800	3129500	0	0	0	0	0	0
WDVSTTK	EPRS1; EPRS1; EPR	P07814; V9GYZ6	SYEP	HUM	Unmodified	938830	394400	350960	0	0	0	0	0	0
WDYLTQVEK	CACYBP	Q9HB71	CYBP	HUM	Unmodified	1130200	690180	894930	0	0	0	0	0	0
WDYPEGTPNGGSTTLPSAPPPASAGLK	NBDY	A0A0U1RRE5	NBDY	HUM	Deamidation (N)	0	1718600	1414900	0	0	0	0	0	0
WEDAIPLALK	LTA4H	P09960	LKHA4	HUM	Unmodified	1265800	526790	1195000	0	0	8612.7	0	0	0
WEEVQSYIR	KTN1	Q86UP2	KTN1	HUM	Unmodified	858330	854500	1125400	0	0	0	0	0	0
WEFKHPQPFLR	EPRS1	P07814	SYEP	HUM	Unmodified	959730	726050	756740	0	0	0	0	0	0
WEGLVYAPPGK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM	Unmodified	0	0	904040	0	0	0	0	0	0
WEMPFDPQDTHQSR	SERPINA3; SERPIN	P01011; G3V595	AACT	HUM	Oxidation (M)	1089700	628450	635360	0	0	0	0	0	0
WETPYMHALAAAASSK	GAMT	Q14353	GAMT	HUM	Oxidation (M)	1099500	1195300	0	0	0	0	0	0	0
WEYENELSK	DSP	P15924	DESP	HUM	Unmodified	1521600	1364300	1307300	0	0	0	0	0	0
WFGFLEAQQAFQSVGTK	EPRS1; EPRS1; EPR	P07814; V9GYZ6	SYEP	HUM	Unmodified	280780	242790	81693	0	0	0	0	0	0
WFHPNITGVEAENLLLTR	PTPN11; PTPN11	Q06124; A0A1W2	PTN11	HUM	Unmodified	3774700	2684800	2678000	0	0	0	0	0	0
WFHPNITGVEAENLLLTR	PTPN11; PTPN11	Q06124; A0A1W2	PTN11	HUM	Deamidation (N)	528220	0	0	0	0	0	0	0	0
WFLTCINQPQFR	EEF1G	P26641	EF1G	HUMA	Unmodified	1648000	315850	1677200	0	0	0	0	0	0
WFNGQPIHAELSPVTDFR	U2AF1; U2AF1L5	Q01081; P0DN76	U2AF1	HUM	Deamidation (N)	8573200	6914300	7230400	0	0	0	0	0	0
WFPEGPTHMLPLLMR	PSME4; PSME4	Q14997; F8WBH5	PSME4	HUM	2 Oxidation (M)	443280	345450	341100	0	0	0	0	0	0
WFQQKVDGIILPGK	RPL11; RPL11	P62913; Q5VVC8	RL11	HUMA	Unmodified	9478300	0	11352000	16413	0	0	0	0	0
WFTSQVIR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	825230	0	1088700	0	0	0	0	0	0
WGASTATTQK	ACIN1; ACIN1; ACIN	Q9UKV3; G3V3B	ACINU	HUM	Unmodified	2358100	2183500	245950	0	0	0	0	0	0
WGASTATTQKPSISITTESLK	ACIN1; ACIN1; ACIN	Q9UKV3; G3V3B	ACINU	HUM	Unmodified	1470100	838400	1368800	0	0	0	0	0	0
WGDAGAEYVVESTGVFTTMEK	GAPDH; GAPDH	P04406; E7EUT5	G3P	HUMAN	Oxidation (M)	138640000	111330000	126500000	224450	57091	264280	0	49157	25943
WGDEHIPGSPYR	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUM	Unmodified	3990800	0	4595700	65668	97947	40329	53131	43785	48094
WGDIEFPPPFGR	ACLY	P53396	ACLY	HUM	Unmodified	0	1119200	0	0	0	0	0	0	0
WGDRDSEGTWR	EIF3A	Q14152	EIF3A	HUM	Unmodified	2118600	2413500	1798600	39877	44099	67176	20770	27869	0
WGDYDSHDIER	PRPF8	Q6P2Q9	PRP8	HUM	Unmodified	1256200	1187500	1404200	0	0	42252	0	0	0
WGEPEPFLR	POLD1; POLD1; POI	P28340; A0A2R8	DPOD1	HUM	Unmodified	0	0	0	0	0	0	0	0	0
WGGIMVYNVDSK	PIGS	Q96S52	PIGS	HUMA	Oxidation (M)	715960	0	641740	0	0	0	0	0	0
WGLVPSWFK	HMCES; HMCES; HI	Q96FZ2; E7EMP6	HMCES	HUM	Unmodified	1104400	1030900	742080	0	0	0	0	0	0
WGRDDIENIAR	SMARCA5	O60264	SMCA5	HUM	Unmodified	1486100	0	1484000	0	56044	0	0	0	0
WGTLTDCVVMR	HNRNPA1L2; HNRN	Q32P51; P51991;	RA1L2	HUM	Oxidation (M)	1810600	2315500	1557000	0	0	0	0	0	0
WGTLTDCVVMRDPQTK	HNRNPA3; HNRNP/	P51991; A0A7I2V	ROA3	HUMA	Oxidation (M)	6818700	5580400	0	50661	52098	0	0	0	0
WGYSSTAITR	GAA	P10253	LYAG	HUM	Unmodified	1786300	2477100	3069800	209150	281190	0	0	0	0
WIDFVR	SSB	P05455	LA	HUMAN	Unmodified	0	5266600	7655400	0	0	0	0	0	0
WIDNPTVDDR	VCL	P18206	VINC	HUM	Unmodified	1152100	1160400	1364100	0	0	213910	0	0	0
WIDNPTVDDRGVGQAAIR	VCL	P18206	VINC	HUM	Unmodified	4104400	5202300	5529000	193350	172560	0	92794	62570	105360
WIEAGPVVLK	PTK7; PTK7; PTK7	Q13308; Q86X91;	PTK7	HUM	Unmodified	839620	804680	714140	0	0	8648.7	0	0	0
WIEQVTGR	LIMCH1; LIMCH1	Q9UPQ0; D6RD94	LIMC1	HUM	Unmodified	456540	418710	322540	0	0	0	0	0	0
WIGLDLSNGKPR	TCP1; TCP1; TCP1	P17987; F5H282;	TCPA	HUMA	Deamidation (N)	4040800	3086600	3518500	10377	8544.6	0	0	0	0
WIGSETDLEPPVVKR	PPP1R12A; PPP1R12	O14974; F8VZN8	MYPT1	HUM	Unmodified	1538700	1514500	2097600	79362	92882	118330	20001	0	10289
WINLDNNRIR	PRELP	P51888	PRELP	HUM	Deamidation (N)	642770	508240	296400	0	88188	21541	0	0	18602
WIPLINER	RHOT1; RHOT1	Q8IXI2; H7BXZ6	MIRO1	HUM	Unmodified	698570	0	1069700	0	0	0	0	0	0
WIQGLQETNPTLAQIPVVFR	ECSIT	Q9BQ95	ECSIT	HUM	Unmodified	787090	1131500	1893800	0	0	0	0	0	0
WISIMTER	ANXA2P2; ANXA2;	A6NMY6; P07355	AXA2L	HUM	Oxidation (M)	885900	933220	1229500	690900	395360	0	0	0	0
WISSGEYIQMSGR	MTREX	P42285	MTREX	HUM	Oxidation (M)	1883300	1314000	2207900	0	44327	51826	0	0	0
WIVEER	AHSA1; AHSA2P; A	O95433; Q7Z9I0;	AHSA1	HUM	Unmodified	9398600	8715900	9453800	208980	222810	214480	0	0	0
WIVLFPEGGFLR	LPGAT1	Q92604	LGAT1	HUM	Unmodified	131980	148640	138520	0	0	0	0	0	0
WKALIEMEKQQQDQVDR	NONO; NONO; NON	Q15233; A0A7I2V	NONO	HUM	Oxidation (M)	2203500	2696900	2619200	0	0	58695	0	0	0
WKDSDEADLVLAK	CBX3	Q13185	CBX3	HUM	Unmodified	7681700	5411400	6935400	67283	32757	0	0	0	0
WKDSDEADLVLAK	CBX3	Q13185	CBX3	HUMA	Methyl (KR)	760530	765230	714130	0	0	0	0	0	0
WKDTDEADLVLAK	CBX5	P45973	CBX5	HUM	Unmodified	1451900	1465600	2021200	0	0	0	0	0	0
WKGENVSTTEVEGTLSR	SLC27A4	Q6P1M0	S27A4	HUM	Unmodified	854980	844000	709890	0	0	0	0	0	0
WKNSDEADLVPAK	CBX1; CBX1; CBX1	P83916; J3KS05;	CBX1	HUMA	Deamidation (N)	4704200	5536100	4097300	27114	63662	0	0	0	0
WKNSDEADLVPAKEANVK	CBX1; CBX1; CBX1	P83916; J3KS05;	CBX1	HUMA	Deamidation (N)	2067700	2329800	2279700	0	0	0	0	0	0
WKPGSLASHVK	CDK1; CDK1	P06493; A0A024	CDK1	HUM	Unmodified	722470	615370	959740	0	0	0	0	0	0
WKSLDEMEKQQR	SFPQ; SFPQ	P23246; H0Y9K7	SFPQ	HUMA	Oxidation (M)	1836300	1384400	1035100	138960	127640	122570	0	0	0
WKYEKPDGSPVFIAFR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	1663900	1104400	2097100	0	0	0	0	0	0
WLAGLPLQLAHLGSR	TEX10	Q9NXF1	TEX10	HUM	Unmodified	491600	581280	417080	0	0	0	0	0	0
WLAIDANAR	KPNB1; KPNB1	Q14974; J3QR48	IMB1	HUM	Unmodified	3236600	2610800	2874300	0	0	20851	0	0	0
WLAIGAPLLLNSEVDDSDNRDR	N/A	N/A	N/A		Unmodified	15281000	7355100	16550000	7747400	11061000	12109000	1437700	6270700	4738400
WLAPDGLIFPDR	PRMT1; PRMT1; PR	Q99873; E9PKG1	ANM1	HUM	Unmodified	330600	407780	461770	0	0	0	0	0	0
WLAQLVK	CNOT9	Q92600	CNOT9	HUM	Unmodified	452780	525280	455980	0	0	0	0	0	0
WLAVDYENVRPDIVLLGK	OAT	P04181	OAT	HUMA	Unmodified	1577800	795220	2059900	0	0	0	0	0	0
WLDFGEVSTQEALK	HMCES; HMCES; HI	Q96FZ2; E7EMP6	HMCES	HUM	Unmodified	1075400	0	1552700	0	0	0	0	0	0
WLDLKDNPLDPVLAK	LRRC59	Q96AG4	LRC59	HUM	Unmodified	1319600	1884400	1604100	0	0	0	0	0	0
WLEASEEER	BOP1	Q14137	BOP1	HUM	Unmodified	771480	0	1210300	0	0	0	0	0	0
WLEASEEERQVGLR	BOP1	Q14137	BOP1	HUM	Unmodified	2197700	1101000	1241300	32124	0	0	0	0	0
WLGEQLK	PDXDC1; PDXDC2P	Q6P996; Q6P474;	PDXD1	HUM	Unmodified	983880	998300	952180	0	0	0	0	0	0
WLHNEDQMAVEK	TALDO1	P37837	TALDO	HUM	Oxidation (M)	3772700	3826400	3752800	0	0	0	0	0	0
WLHNEDQMAVEK	TALDO1	P37837	TALDO	HUM	Oxidation (M);Deai	1090900	985810	911110	19325	0	0	0	0	0
WLIPLLEGK	ACAD10	Q6JQN1	ACD10	HUM	Unmodified	420890	441700	523170	0	0	0	0	0	0
WLITLNK	EIF4E; EIF4E; EIF4E	P06730; D6RBW1	IF4E	HUMAN	Unmodified	2023600	2606600	2833600	18574	24144	15344	0	0	0
WLKEDKLECSEELGDLVK	CLTCL1; CLTC; CL1	P53675; Q00610;	CLH2	HUM	Unmodified	1029500	442040	503240	0	0	0	0	0	0
WLLGMKNNQSKSANSTLR	PDS5A	Q29RF7	PDS5A	HUM	Oxidation (M);3 De	0	194470	0	0	0	0	0	0	0
WLMMQSYMDPR	PRRC2C; PRRC2C	Q9Y520; E7EPN9	PRC2C	HUM	3 Oxidation (M)	575010	389350	660850	0	0	0	0	0	0
WLNENAVEK	AHCY	P23526	SAHH	HUM	Unmodified	0	0	916560	0	0	0	12113	0	0
WLPAGDALLQMTIHLPSPVTAQK	EEF2	P13639	EF2	HUMAN	Oxidation (M)	887750	194760	1165700	0	0	0	0	0	0
WLPAGTGPQAFSR	VASP; VASP; VASP	P50552; K7ENR7;	VASP	HUM	Unmodified	4497600	3164000	4218900	159000	235570	180230	25234	29466	32506
WLPEEDFR	RBM12B	Q8IXT5	RB12B	HUM	Unmodified	1694700	1865300	1142800	18341	21141	59954	0	0	0
WLPELVEHAK	ALDH6A1; ALDH6A	Q02252; G3V4Z4	MMSA	HUM	Unmodified	1153600	890240	1008100	0	0	0	0	0	0
WLPSSSPVTGYR	FN1; FN1	P02751; H0Y7Z1	FINC	HUM	Unmodified	5899200	4044400	4949000	288990	366680	323420	87104	0	73661
WLPYEAGQR	DSP	P15924	DESP	HUM	Unmodified	4567800	3967100	4211700	0	35308	0	0	15633	0
WLQETSK	HCFC1; HCFC1; HCI	P51610; A6NEM2	HCFC1	HUM	Unmodified	0	475770	471230	0	0	0	0	0	0
WLQGSQELPR	IGHA2; IGHA1; IGH	P01877; P01876;	IGHA2	HUM	Unmodified	0	2326900	0	0	0	0	0	0	0
WLQGSQELPREK	IGHA2; IGHA1; IGH	P01877; P01876;	IGHA2	HUM	Unmodified	0	2396000	2667100	0	0	0	0	0	0
WLSAEIEDVKPAK	NDUFA9; NDUFA9	Q16795; F5H0J3	NDUA9	HUM	Unmodified	1984800	0	2440100	0	0	0	0	0	0
WLSDECTNAVVNFLSR	ECI2; ECI2	O75521; A0A0C4	ECI2	HUMA	Unmodified	423600	0	321670	0	0	0	0	0	0
WLSTSIPEAQWHSSLAR	FASN; FASN	P49327; A0A0U1	FAS	HUMAN	Unmodified	7908900	8936400	10814000	86017	57437	48567	21175	0	249880
WLVIDPVPAAVPTQVAGPK	CC2D1A	Q6P1N0	C2D1A	HUM	Unmodified	2023700	1568600	1395700	0	0	0	0	0	0
WMDEAQALDTADR	NAA15; NAA15	Q9BXJ9; A0A0B4	NAA15	HUM	Oxidation (M)	1062900	1099400	0	0	0	0	0	0	0
WMEEQAQSLIDK	SNRPC; SNRPC	P09234; A0A0A0	RU1C	HUMA	Oxidation (M)	806380	1377700	1285500	0	0	0	0	0	0
WMEPAIPVFSFSK	POGLUT1; POGLUT	Q8NBL1; B4DVA	PGLT1	HUM	Oxidation (M)	0	1154800	833030	0	0	0	0	0	0

WMIDSRDDFTEER	SDHB	P21912	SDHB	HUMA	Oxidation (M)	1978300	1266900	1438600	23043	27793	26821	0	0	0
WNLDELPKFEK	DDX5; DDX5; DDX5	P17844; A0A7I2V	DDX5	HUMA	Unmodified	739160	1072400	892510	0	0	0	0	0	0
WNTEDKVSHVSTGGGASLELLEGK	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Unmodified	4494400	4474500	4154500	0	0	0	0	0	0
WNTEDKVSHVSTGGGASLELLEGK	PGK1; PGK2	P00558; P07205	PGK1	HUMA	Deamidation (N)	1160300	0	0	0	0	0	0	0	0
WPDPEDLLTPR	GADD45GIP1	Q8TAE8	G45IP	HUMA	Unmodified	2330600	2371000	396670	9945.6	0	0	0	0	0
WPEVDDDSIEDLGEVKK	DENR	O43583	DENR	HUMA	Unmodified	1484700	1936400	0	0	0	0	0	0	0
WPIVGVR	GPD2	P43304	GPDM	HUMA	Unmodified	1119600	1343700	1575100	15392	0	0	0	0	0
WPTETDVSSAK	MAP4; MAP4	P27816; E7EVA0	MAP4	HUMA	Unmodified	2713500	3618300	2920500	305670	238990	319270	61150	22547	31021
WPVAGQIR	PRKDC	P78527	PRKDC	HUM	Unmodified	33458000	25359000	24319000	613090	653380	644710	118830	0	0
WQAIYKQFDTDR	CAPNS1; CAPNS1; C	P04632; A0A0C4I	CPNS1	HUM	Unmodified	398400	300050	322740	0	0	0	0	0	0
WQASSLPADDLCTENAIMLK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Oxidation (M)	847790	678420	941330	0	0	0	0	0	0
WQDAQATLQK	SNX1; SNX1	Q13596; H0YK42	SNX1	HUMA	Unmodified	448750	384590	0	0	0	0	0	0	0
WQDIQNDPR	CHD4; CHD5; CHD4	Q14839; Q8TDI0;	CHD4	HUMA	Unmodified	1499500	1057300	865220	188090	138250	125560	0	0	58844
WQDVLPVAR	TTC38	Q5R3I4	TTC38	HUM	Unmodified	724170	480840	530230	23388	34207	29735	0	8529.6	0
WQEEMELYR	APOA1; APOA1	P02647; F8W696	APOA1	HUM	Oxidation (M)	1757700	1656500	1478100	0	0	0	0	0	0
WQFLTLR	LARS1; LARS1; LAR	Q9P2J5; A0A618P	SYLC	HUMA	Unmodified	846720	775220	842730	0	0	0	0	0	0
WQFTLPMMSTLYR	PRPF8; PRPF8	Q6P2Q9; I3L0J9	PRP8	HUMA	2 Oxidation (M)	977810	452680	799500	0	0	0	0	0	0
WQLSVATEQPELEGPR	DDX21	Q9NR30	DDX21	HUM	Unmodified	3114200	1987600	2030700	0	0	0	10151	0	0
WQPDTEEEYEDSSGNVVNKK	SF3A3	Q12874	SF3A3	HUM	Unmodified	916600	953670	847650	0	0	0	0	0	0
WREEQMERLEALDANSR	CLTA; CLTA	P09496; F8WF69	CLCA	HUMA	Oxidation (M)	0	903580	0	19736	0	0	0	0	0
WRPIASDEIVPGDIVSIGR	ATP13A1	Q9HD20	AT131	HUM	Unmodified	680870	626160	846530	0	0	0	0	0	0
WRYPSLSLHGIEGAFSGSGAK	CNDP2	Q96KP4	CNDP2	HUM	Unmodified	230960	1952000	1390700	0	0	0	0	0	0
WSDQGPAQTSR	TNKS1BP1	Q9C0C2	TB182	HUM	Unmodified	528580	489100	533060	61871	205000	140570	0	74676	0
WSEPNEEELIK	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Unmodified	2540600	2147900	0	0	0	0	0	0	0
WSEPNEEELIK	FEN1; FEN1	P39748; I3L3E9	FEN1	HUMA	Deamidation (N)	975940	1389400	1049800	0	0	0	0	0	0
WSFVESLEPSHVVQVR	MRPL45; MRPL45	Q9BRJ2; A0A087	RM45	HUMA	Unmodified	3025600	0	0	0	0	0	0	0	0
WSGPLSLQEVDEQPQHPLHVTYAGAAVDELGK	PEBP1	P30086	PEBP1	HUM	Unmodified	28339000	25900000	39514000	0	0	0	0	0	0
WSGPLSLQEVDEQPQHPLHVTYAGAAVDELGKVLTPTQVK	PEBP1	P30086	PEBP1	HUM	Unmodified	2230500	0	0	0	0	0	0	0	0
WSGYMEGAVEAGER	MAOB; MAOA	P27338; P21397	AOFB	HUMA	Oxidation (M)	14908000	13796000	12845000	163770	197940	210500	0	0	0
WSMVDVQFVR	THYN1	Q9P016	THYN1	HUM	Oxidation (M)	0	0	1519700	0	0	0	0	0	0
WSQLLANSAAR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Unmodified	1098700	860180	650800	0	0	0	0	0	0
WSTLVEDYGMELRK	PSMD12	O00232	PSD12	HUM	Oxidation (M)	0	0	306010	0	0	0	0	0	0
WTDENIDTVALK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	0	1587400	799570	0	0	29374	0	0	0
WTELAGCTADFR	LMAN2; LMAN2; LM	Q12907; D6RIU4;	LMAN2	HUM	Unmodified	783730	705260	746360	0	0	0	0	0	0
WTELGALDILQMLGR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Oxidation (M)	77047	16261	44529	0	0	0	0	0	0
WTETYVR	EIF3B; EIF3B; EIF3B	P55884; C9JZG1;	EIF3B	HUM	Unmodified	1215200	1264900	851450	28757	30792	0	0	0	0
WTEYGLTFTEK	VDAC1; VDAC1	P21796; C9JI87	VDAC1	HUM	Unmodified	1853300	1231800	1010300	0	0	0	0	0	0
WTGMIIGPPR	UBE2V2; UBE2V1; U	O15819; Q13404;	UB2V2	HUM	Oxidation (M)	21965000	19479000	21364000	360740	293840	281190	24719	0	0
WTKPSSFSDSER	LEMD2; LEMD2	Q8NC56; H0Y9B7	LEMD2	HUM	Unmodified	2357800	2390600	2009000	99980	103160	102900	22018	28533	0
WTSQDSLLGMEFSGR	FASN; FASN	P49327; A0A0U1I	FAS	HUMA	Oxidation (M)	414300	518760	358920	0	0	0	0	0	0
WTTEEQLLAVQGVR	RCOR3; RCOR3	Q9P2K3; H0YF22	RCOR3	HUM	Unmodified	444260	690680	590440	0	0	0	0	0	0
WTTLNSLQLHGLQLR	NSUN2	Q08J23	NSUN2	HUM	Unmodified	4803200	3435100	3489900	0	0	0	0	0	0
WTTLNSLQLHGLQLR	NSUN2	Q08J23	NSUN2	HUM	Deamidation (N)	1686900	1070100	1858500	0	0	0	0	0	0
WVFKEEGVLR	DDOST; DDOST	P39656; A0A0C4I	OST48	HUM	Methyl (KR)	1810600	1889900	1903700	36129	33008	36318	0	0	0
WVGGPEIELIAIATGGR	CCT5; CCT5; CCT5;	P48643; B7ZAR1;	TCPE	HUMA	Unmodified	847500	112680	512480	0	0	0	0	0	0
WVIEAAEGR	SEZ6L2; SEZ6L2; SE	Q6UXD5; H3BN2	SE6L2	HUM	Unmodified	291120	306260	270810	0	0	0	0	0	0
WVPEITHHCPK	CDC42; CDC42; CDC	P60953; Q5JYX0;	CDC42	HUM	Unmodified	624310	636790	911070	0	0	0	0	0	0
WVPPLIGELYGLR	NDUFA13	Q9P0J0	NDUAD	HUM	Unmodified	773370	413870	715610	0	0	0	0	0	0
WVPQMGDHTEVLK	HMGCL	P35914	HMGCL	HUM	Oxidation (M)	0	956380	1151000	0	0	0	0	0	0
WVSPPALKDFLFQAK	CRLF1; CRLF1	O75462; M0QZL6	CRLF1	HUM	Unmodified	1171600	1535900	1363300	0	0	0	0	0	0
WVTALELAK	OSBP	P22059	OSBP1	HUM	Unmodified	2001700	4424200	1813600	0	0	0	0	0	0
WVTTASLLDYDTVAGADK	SF3B3	Q15393	SF3B3	HUM	Unmodified	1423800	1282700	1111400	0	0	0	0	0	0
WVTYFNKPDIDAWELR	COX5A; COX5A; CC	P20674; H3BRI0;	COX5A	HUM	Unmodified	2201100	2626900	2976100	0	0	0	0	0	0
WVTYFNKPDIDAWELRK	COX5A; COX5A; CC	P20674; H3BRI0;	COX5A	HUM	Unmodified	6630300	5712700	7812100	0	0	0	0	0	0
WVVIGDENYGEGSSR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Unmodified	2111000	0	3142600	35904	68384	37818	0	0	0
WVVIGDENYGEGSSREHAALEPR	ACO2; ACO2; ACO2	Q99798; A2A274;	ACON	HUM	Unmodified	2075900	2208300	1605800	0	0	0	30826	0	0
WVYGPGGAR	DCTN3; DCTN3; DC	O75935; X6RCK5	DCTN3	HUM	Unmodified	1092600	1659600	922890	0	0	0	0	0	0
WWEEERYPEGIK	TOP1	P11387	TOP1	HUMA	Unmodified	0	0	389400	9518.7	0	0	0	0	0
WYEIKIPTTFENGR	APOD; APOD; APOE	P05090; C9JX71;	APOD	HUMA	Deamidation (N)	2245700	0	1835900	17412	0	0	0	0	0
WYQMGAYQPFFR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUN	Oxidation (M)	8089600	8725000	10035000	18252	30029	0	0	0	0
WYVDGPASTAFQEHVSR	LSS; LSS	P48449; A0A0G2J	LSS	HUMAN	Unmodified	0	1021100	821350	0	0	0	0	0	0
WYVNLHSLMDR	ENDOD1	O94919	ENDD1	HUM	Oxidation (M)	656990	0	0	0	0	0	0	0	0
YAALSDQGLDIK	PALLD	Q8WX93	PALLD	HUM	Unmodified	1553500	0	914710	0	92390	116640	91475	68773	0
YAALVNKGAEEYLR	N/A	N/A	N/A		Deamidation (N)	172180	501030	0	0	0	0	0	0	0
YAALYQPLFDK	NAP1L4; NAP1L4; N	O99733; C9J6D1;	NP1L4	HUM	Unmodified	0	1272600	1160300	0	0	0	0	0	0
YAALYQPLFDKR	NAP1L4; NAP1L4; N	O99733; C9J6D1;	NP1L4	HUM	Unmodified	765490	743720	787570	0	0	0	0	0	0
YAAVTQFEATDAR	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL	HUM	Unmodified	4096100	3373600	4470400	725000	570840	597970	7212.5	0	0
YAAVTQFEATDARR	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL	HUM	Unmodified	12163000	11632000	9001300	2717800	2373400	2880400	246550	257930	152680
YADEEIPR	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	1874000	1282000	2011900	0	346310	528790	0	0	0
YADEEIPRSPFK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	2629100	1908600	1891700	232030	226450	306280	66552	79856	0
YADEEIPRSPFKVK	FLNB; FLNB	O75369; E7EN95	FLNB	HUM	Unmodified	0	0	0	374560	315690	343430	0	0	0
YADITVTSSK	MACF1; MACF1; MA	Q9UPN3; H3BQK	MACF1	HUM	Unmodified	815340	0	1728100	0	0	0	0	0	0
YADLLLEKETLK	CDC5L	Q99459	CDC5L	HUM	Unmodified	4709900	4675500	3841800	79062	52696	76942	0	0	0
YADLPGIAR	DCTN2; DCTN2; DC	Q13561; A0A7I2V	DCTN2	HUM	Unmodified	4615100	8824300	6598900	673190	604100	672130	209760	211830	208940
YADLTEDQLPSCESLKDTIAR	PGAM1	P18669	PGAM1	HUM	Unmodified	14159000	7340000	17131000	0	0	0	0	0	0
YADTLFDILVAGSMLAPGGTR	BZW2; BZW2; BZW	Q9Y6E2; Q75MG	BZW2	HUM	Oxidation (M)	35912	0	31350	0	0	0	0	0	0
YADVALVQQWVAAMR	N/A	N/A	N/A		Oxidation (M)	1009300	354580	0	0	0	0	0	0	0
YAEAETLYKEILTR	KLC4; KLC4	Q9NSK0; H7C4M	KLC4	HUM	Unmodified	0	1145500	633200	0	0	0	0	0	0
YAEAVTR	PGK1	P00558	PGK1	HUM	Unmodified	0	44225000	47851000	1101100	900500	1039800	12749	0	13504
YAECGLR	GPX4; GPX4; GPX4;	P36969; A0A087	GPX4	HUM	Unmodified	3964700	3407200	2042900	268470	290100	163500	0	0	0
YAEIVHLTLPDGTKR	ATP6V1B2; ATP6V1	P21281; H0YC04	VATB2	HUM	Unmodified	7502900	6374000	6763900	102320	107510	57532	19669	21392	15298
YAFGQETNVPLNNFSADQVTR	NDUFA2	O43678	NDUA2	HUM	Deamidation (N)	7201200	9268900	9046100	88514	54483	0	0	0	0
YAFGQETNVPLNNFSADQVTR	NDUFA2	O43678	NDUA2	HUM	Unmodified	1117700	1813600	2231200	0	0	0	0	0	0
YAFGQETNVPLNNFSADQVTR	NDUFA2	O43678	NDUA2	HUM	2 Deamidation (N)	1322800	1003000	1478400	0	0	0	0	0	0
YAGEPVPFIEPPESFEFYAQQLR	LRPPRC	P42704	LPPRC	HUM	Unmodified	341290	225340	432140	0	0	0	0	0	0
YAGEPVPFIEPPESFEFYAQQLRK	LRPPRC	P42704	LPPRC	HUM	Unmodified	3326000	2726700	2158400	0	0	0	0	0	0
YAGPEDDAAITLAFSK	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Unmodified	2666900	2537200	0	0	0	0	0	0	0
YAGSALQYEDVSTAVQNLQK	VTA1; VTA1; VTA1	Q9NP79; Q5TGM	VTA1	HUMA	Unmodified	2338100	2102900	3070700	0	0	0	0	0	0
YAHVVLR	RPS18	P62269	RS18	HUMA	Unmodified	797930	981080	770570	22451	16214	0	0	0	0
YAICSALAASALPALVMSK	RPL4; RPL4; RPL4	P36578; H3BM89	RL4	HUMAN	Oxidation (M)	1145100	672630	852640	0	0	0	0	0	0
YAILNEPFKGEMNR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4	HUMA	Oxidation (M)	835080	572350	1009100	0	0	0	0	0	0
YAINLDVQKEAINLLK	FAM111B	Q6SJ93	F111B	HUM	Unmodified	885460	0	592920	0	0	0	0	0	0
YAITVWYFDADERAR	EGLN1; N/A	Q9GZT9; A0A590	EGLN1	HUM	Unmodified	6424300	6542100	5821300	0	0	0	0	0	0
YALPLVGHR	PDIA4; PDIA4	P13667; A0A499F	PDIA4	HUM	Unmodified	1688100	2929900	2155400	0	0	0	0	0	0
YALQMEQLNGILLHLESELAQTR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Oxidation (M);Dea	730800	0	0	0	0	0	0	0	0
YALQSQQR	ACAA2; ACAA2; AC	P42765; A0A0B4J	THIM	HUM	Unmodified	403380	330620	401960	0	0	0	0	0	0
YALSNSIGPVR	NID1	P14543	NID1	HUMA	Deamidation (N)	806980	830040	682690	87454	81710	128950	0	0	0
YALSNSIGPVR	NID1	P14543	NID1	HUMA	Unmodified	0	0	984300	66586	33798	64520	0	0	0
YALTTTLSAR	MYG1; MYG1	Q9HB07; F8VR84	MYG1	HUM	Unmodified	4446200	4290200	4792100	364650	369440	368180	25729	53193	0
YALYDASFETK	DSTN; DSTN	P60981; F6RFD5	DEST	HUM	Unmodified	6071600	5701100	5995700	429450	427160	435650	31951	30229	47846
YALYDATYETK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1	HUM	Unmodified	65385000	56280000	63585000	1638400	1740900	1526000	59073	41164	60965
YALYDATYETKESK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1	HUM	Unmodified	1426500	1170800	1269300	80404	62142	0	0	0	0
YALYDATYETKESK	CFL1; CFL2; CFL1; (	P23528; Q9Y281;	COF1	HUMA	Methyl (KR)	5062100	4692300	4771600	0	11049	116640	0	0	0
YANNSNYKNDVMIR	MAGOH; MAGOHB;	P61326; Q96A72;	MGN	HUMA	Oxidation (M);3 De	0	0	0	0	0	0	0	0	0
YAPDKTSTVLTR	PDLIM7	Q9NR12	PDLI7	HUM	Unmodified	0	375010	0	0	0	0	823180	668430	782820
YAPISGGDHAEVDVPKSQQATTK	TNC; TNC; TNC; TN	P24821; F5H7V9;	TENA	HUM	Unmodified	0	509270	0	0	0	0	206490	194950	174040
YAPKAASARTDL	MANF	P55145	MANF	HUM	Unmodified	0	0	0	0	62072	100040	98601	0	147220
YAPLHLVPLIER	CYFIP1; CYFIP2; CY	Q7L576; Q96F07;	CYFP1	HUM	Unmodified	3116300	3416500	3305500	0	51899	0	0	0	0
YAPSEAGLHEMDIR	FLNA; FLNA; FLNA	P21333; H0Y5F3;	FLNA	HUMA	Oxidation (M)	18597000	17251000	13338000	539740	619200	896110	210350	206660	0
YAPSGFYIASGDVSGK	WDR1; WDR1	O75083; D6RD66	WDR1	HUM	Unmodified	3139800	2495800	3033700	137300	143640	109830	0	0	0
YAPSGFYIASGDVSGKLR	WDR1; WDR1	O75083; D6RD66	WDR1	HUM	Unmodified	2771800	3394700	0	177980	0	0	0	0	0
YAPTEAQLNAVDALIDSMSLAK	XRCC5	P13010	XRCC5	HUM	Oxidation (M)	6827500	6063400	7813700	0	0	0	0	0	0
YAPTEAQLNAVDALIDSMSLAK	XRCC5	P13010	XRCC5	HUM	Oxidation (M);Dea	3596500	6455200	5274500	0	0	0	0	0	0
YAPTEVGLHEMHIK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Oxidation (M)	8468700	7255100	6441600	1057400	1048900	1169700	103080	0	0
YAPVAKDLASRDVVSR	SDHA; SDHA; SDHA	P31040; D6RFM5	SDHA	HUM	Unmodified	812760	815450	485430	1516900	481040	1839600	148990	175630	0
YAQAGFEGFK	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	1767200	1994000	2217500	0	0	69088	0	0	0
YARSEIVGVSR	PKP2	Q99959	PKP2	HUMA	Unmodified	0	0	0	105940	157860	0	0	0	0
YASETLQAQSEEARR	ISY1	Q9ULR0	ISY1	HUMAN	Unmodified	1992100	1585900	1542500	0	38946	0	0	0	0
YASIEKNGEFFMSPNDFVTR	SLC25A13; SLC25A1	Q9UJS0; R4GN64	CMC2	HUM	Oxidation (M);2 De	991630	1104100	1163200	0	0	0	0	0	0
YASIEKNGEFFMSPNDFVTR	SLC25A13; SLC25A1	Q9UJS0; R4GN64	CMC2	HUM	Oxidation (M);Dea	1195400	202490	516610	0	0	0	0	0	0
YASNAVSEALIR	DNPEP; DNPEP; DN	Q9ULA0; E5RIA4	DNPEP	HUM	Unmodified	620500	732470	476230	107070	96632	96979	0	0	0
YASNAVSEALIR	DNPEP; DNPEP; DN	Q9ULA0; E5RIA4	DNPEP	HUM	Deamidation (N)	839880	0	0	151000	111180	0	0	0	0
YATALYSAASK	ATP5PO; ATP5PO; A	P48047; H7C086;	ATPO	HUMA	Unmodified	7242800	6512200	6697500	88937	112410	92942	0	0	0
YATLATVSR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	3396900	2771600	2573200	68721	52633	74966	0	0	0
YATPAPSAK	CRMP1; CRMP1	Q14194; E9PD68	DPYL1	HUM	Unmodified	1634800	1740800	2097100	66225	25789	48812	0	0	0
YAVIGADLR	LCMT1; LCMT1	Q9UIC8; I3L4A2	LCMT1	HUM	Unmodified	1209200	1438700	370090	0	0	0	0	0	0
YAVLYQPLFDK	NAP1L1; NAP1L1; N	P55209; F8VUX1;	NP1L1	HUM	Unmodified	1083900	1364500	923130	0	0	0	0	0	0
YAVLYQPLFDKR	NAP1L1; NAP1L1; N	P55209; F8W543;	NP1L1	HUM	Unmodified	9143900	9239300	10434000	53499	0	63202	0	0	0
YAVPSAGLR	PRKDC	P78527	PRKDC	HUM	Unmodified	9104000	8781700	10559000	234670	219690	158500	0	0	0
YAVTTGDHGIIR	COPA; COPA; COPA	P53621; A0A3B3I	COPA	HUM	Unmodified	5527600	4835200	4138100	179980	207850	200460	0	21477	16710
YAWQGVALLPFVDER	XRN2	Q9H0D6	XRN2	HUM	Unmodified	1529700	1799700	1465900	0	0	0	0	0	0
YAWQGVALLPFVDERR	XRN2	Q9H0D6	XRN2	HUM	Unmodified	0	1116800	987380	0	0	0	0	0	0

YAYYDTER	EIF3F; EIF3F	O00303; H0YDT6	EIF3F	HUMA	Unmodified	1295400	1388900	1350100	75464	55365	50995	0	0	0
YCAQDAFFQVK	ECH1; ECH1	Q13011; M0R248	ECH1	HUMA	Unmodified	1914100	1750000	2510100	56472	48884	0	0	0	0
YDAFGEDSSSAMGVENR	NOP58	Q9Y2X3	NOP58	HUM	Oxidation (M)	2615600	923180	878070	0	0	0	0	0	0
YDAFLASESLIK	RPL10A	P62906	RL10A	HUM	Unmodified	0	0	0	0	0	0	0	0	0
YDDAIQLYDR	EMC2; EMC2	Q15006; H0YAS9	EMC2	HUM	Unmodified	632980	598310	646020	0	0	0	0	0	0
YDDIEGANYFQQANELSK	NDUFS1; NDUFS1	P28331; B4DJ81	NDUS1	HUM	Deamidation (N)	435890	0	456260	0	0	0	0	0	0
YDDMAAAMK	YWHAB; YWHAG; Y	P31946; P61981; (	1433B	HUM	2 Oxidation (M)	4271500	6589200	3833700	0	614150	590500	0	0	0
YDDMAACMK	YWHAZ; YWHAZ; Y	P63104; E5RGE1;	1433Z	HUM	2 Oxidation (M)	2317200	0	1118900	0	0	0	0	0	0
YDDMASAMK	YWHAH; YWHAH; \	Q04917; F8WEB6	1433F	HUM	2 Oxidation (M)	477030	501160	591460	0	0	0	0	0	0
YDDMASAMK	YWHAH; YWHAH; \	Q04917; F8WEB6	1433F	HUM	Oxidation (M)	0	6351800	0	0	0	0	0	0	0
YDDMATCMK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUM	2 Oxidation (M)	0	771170	410990	0	0	0	0	0	0
YDDPEVQKDIK	HSPA9; HSPA9; HSP	P38646; H0Y8K0;	GRP75	HUM	Unmodified	3643100	4025500	2408100	76768	198540	107500	0	0	0
YDDYSSSR	RBMX; RBMXL1; R	P38159; Q96E39;	RBMX	HUM	Unmodified	6203500	6499300	5285500	852340	576650	634940	0	0	0
YDDYSSSRDGYGGSR	RBMX; RBMXL1; R	P38159; Q96E39;	RBMX	HUM	Unmodified	2311500	2193700	2377100	0	53386	54854	0	0	0
YDEEFQR	CSE1L	P55060	XPO2	HUM	Unmodified	1319400	1241100	633770	0	0	0	0	12423	0
YDEIVKEVSAYIK	EEF1A2; EEF1A2	Q05639; A0A2U3	EF1A2	HUM	Unmodified	464780	371570	196890	0	0	0	0	0	0
YDEMVESMK	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUM	2 Oxidation (M)	2285700	2594000	2918500	82592	70285	74848	0	0	0
YDEMVESMKK	YWHAE; YWHAE; Y	P62258; I3L3T1; I	1433E	HUM	2 Oxidation (M)	9194700	10427000	12100000	0	423860	0	0	0	0
YDFQNPSR	SMARCC2; SMARC	Q8TAQ2; F8VXC	SMRC2	HUM	Unmodified	492280	483280	495060	0	250000	83842	0	0	0
YDGIILPGK	RPL11; RPL11	P62913; Q5VVC8	RL11	HUM	Unmodified	8793300	7248800	7412500	202660	180350	188050	0	0	0
YDGQVAVFGSDLQEK	UBA1	P22314	UBA1	HUM	Unmodified	711030	755020	565560	0	0	0	0	0	0
YDHGTFFPMGDEGASSQIGR	HDAC6; HDAC6	Q9UBN7; A0A2R	HDAC6	HUM	Oxidation (M)	1736000	1630500	1737300	65977	37880	0	0	0	0
YDLDFKSPDDPSR	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM	Unmodified	11014000	8018500	9920400	67962	54987	64903	0	0	0
YDLEQGLGDLLTER	RNF20; RNF20; RNF	Q5VTR2; C9J0A5	BRE1A	HUM	Unmodified	356120	0	213850	0	0	0	0	0	0
YDLSALVR	IGF2R; IGF2R; IGF2F	P11717; A0A7I2V	MPRI	HUM	Unmodified	12683000	10555000	13881000	422550	389690	295780	47375	81131	0
YDLSPITVK	ERGIC1	Q969X5	ERGI1	HUM	Unmodified	1816700	1463700	1434800	88996	88983	79665	0	0	0
YDNGSGYR	DHX9	Q08211	DHX9	HUM	Deamidation (N)	14075000	18048000	19125000	1368600	1539400	1514800	0	0	0
YDREMKDYGPAK	HMGB3; HMGB3; HI	O15347; E7EQU1	HMGB3	HUM	Oxidation (M)	0	0	1264800	0	0	0	0	0	0
YDSRTTIFSPEGR	PSMA4; PSMA4; PSI	P25789; H0YLS6;	PSA4	HUM	Unmodified	1161000	1132300	991410	81397	388800	453300	112940	73739	80603
YDYEEVEAEGANK	PGM1; PGM1	P36871; A0A3B3I	PGM1	HUM	Unmodified	1297600	1187200	1299200	0	0	0	0	0	0
YEAAFPFLSPCGR	C8orf82; C8orf82	Q6P1X6; H0YF29	CH082	HUM	Unmodified	839330	870810	725200	22591	15890	0	0	0	0
YEAAIQR	MAP7D1; MAP7D1	Q3KQU3; C9JIR3	MA7D1	HUM	Unmodified	502970	471730	0	0	14269	0	0	0	0
YEAAYGK	HADHA; HADHA; H	P40939; A0A2R8	ECHA	HUM	Unmodified	751400	597760	1287200	0	0	0	0	0	0
YEALKEPMVAR	SPTAN1; SPTAN1; S	Q13813; A0A0D9	SPTN1	HUM	Oxidation (M)	2530900	2382200	1323000	78792	66339	93069	0	0	0
YEASILTHDSSIR	FGG; FGG; FGG; FG	P02679; C9JPQ9;	FIBG	HUM	Unmodified	1008400	852510	845310	13951	0	27413	0	0	0
YEATSVQQK	TOR1AIP1; TOR1AII	Q5JTV8; A0A0A0	TOIP1	HUM	Unmodified	1290000	1321900	0	0	0	243910	0	0	0
YEAVGSVHQAWEAIR	MRI1	Q9BV20	MTNA	HUM	Unmodified	0	630790	768950	0	0	0	164130	159050	0
YEDAYQYQNIFGPLVK	UPF1	Q92900	RENT1	HUM	Unmodified	0	970140	1871000	0	0	0	0	0	0
YEDEECTLPIAGR	FBN1	P35555	FBN1	HUM	Unmodified	0	0	0	134630	117300	101350	0	0	0
YEDFKEEGSENAVK	OLA1; OLA1	Q9NTK5; J3KQ32	OLA1	HUM	Deamidation (N)	369440	490510	597530	0	0	0	0	0	0
YEDFSNLGTTHLLR	UQCRC2; UQCRC2;	P22695; H3BUJ9;	QCR2	HUM	Unmodified	3584900	0	2204700	0	0	0	0	0	0
YEDMAAFMK	SFN	P31947	1433S	HUM	2 Oxidation (M)	2083900	1427000	1754600	0	0	0	0	0	0
YEDQELTGK	BAZ1B	Q9UIG0	BAZ1B	HUM	Unmodified	0	0	0	0	0	0	0	0	0
YEEEEEQSRSMSR	SUPT16H	Q9Y5B9	SP16H	HUM	Oxidation (M)	320960	398160	512760	20542	0	15880	0	0	0
YEEIDNAPEER	TUFM	P49411	EFTU	HUM	Unmodified	1556600	1770000	1547500	0	180510	190740	0	0	0
YEEIVKEVSTYIK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Unmodified	2212200	2522700	3542000	0	0	0	0	0	0
YEEIVKEVSTYIK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Methyl (KR)	734670	910490	990130	0	0	0	0	0	0
YEEIVKEVSTYIKK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Unmodified	1699400	2028600	2383900	0	0	0	0	0	0
YEESNLGLLESSVGDSRLPLVLR	SETD3	Q86TU7	SETD3	HUM	Unmodified	1940200	888000	1018700	0	0	0	0	0	0
YEEVSVSGFEEFHR	TXNDC17; TXNDC1	Q9BRA2; I3L2R6	TXD17	HUM	Unmodified	10770000	6971800	8415400	0	0	0	0	0	0
YEFGIFNQK	PYGB; PYGM	P11216; P11217	PYGB	HUM	Unmodified	1214000	857460	1255000	21962	25884	22979	0	0	0
YEFLWGPR	MAGEC2; MAGEB3;	Q9UBF1; O15480	MAGC2	HUM	Unmodified	929910	2824900	2874000	0	0	0	0	0	0
YEGGREHVAHLLFLR	ORM2	P19652	A1AG2	HUM	Unmodified	2082900	2369800	2599200	0	0	0	0	0	0
YEGGRELSDFISYLQR	PDIA3	P30101	PDIA3	HUM	Unmodified	7529000	4879200	6649300	0	0	0	0	0	0
YEGLMGKPSILTYQYAEDLIR	HDHD5	Q9BXW7	HDHD5	HUM	Oxidation (M)	2762300	2585600	1048600	0	0	0	0	0	0
YEIASVPVSLQTLKPVTDR	WRAP73; WRAP73;	Q9P255; A0A0A0	WRP73	HUM	Unmodified	235770	310260	350220	0	0	0	0	0	0
YEIEETETVTK	CALD1; CALD1; CA	Q05682; C9J813;	CALD1	HUM	Unmodified	0	0	0	141530	109720	229430	0	0	0
YEILTPNSIPK	MYH9	P35579	MYH9	HUM	Deamidation (N)	878550	1277800	1423400	72034	49537	34211	0	0	0
YEIMDGAPVKGESIPIR	VPS26A	O75436	VP26A	HUM	Oxidation (M)	1874800	1757700	2064900	0	0	15479	0	0	0
YEINSLIR	VCAN; VCAN	P13611; E9PF17	CSPG2	HUM	Unmodified	982520	0	898800	0	38069	24466	30741	26819	24281
YEISSVPTFLFFK	GLRX3	O76003	GLRX3	HUM	Unmodified	1115300	827610	797550	0	0	0	0	0	0
YEISSVPTFLFFKNSQK	GLRX3	O76003	GLRX3	HUM	Deamidation (N)	1396600	1132200	1816600	0	0	0	0	0	0
YEITEQR	RPL6	Q02878	RL6	HUM	Unmodified	8299600	7949500	8158200	0	122620	0	0	0	0
YEKAEIKEMGEMHRELNA	EPCAM; EPCAM	P16422; B5MCA4	EPCAM	HUN	2 Oxidation (M)	709070	637000	1271200	67222	64434	59780	0	0	0
YEKDIAAYR	HMGB2; HMGB1	P26583; P09429	HMGB2	HUM	Unmodified	1564900	1767100	2122000	0	0	0	0	0	0
YEKPDGSPVFIAFR	ALCAM; ALCAM	Q13740; F5GXJ9	CD166	HUM	Unmodified	3330600	3897300	2615400	69139	72907	56340	0	5715.3	0
YELHLK	FKBP4; ADNP2	Q02790; Q6IQ32	FKBP4	HUM	Unmodified	305920	609090	1179400	0	0	0	0	0	0
YELISETGGSHDK	STRBP; ILF3	Q96SI9; Q12906	STRBP	HUM	Unmodified	786150	971160	839890	0	0	0	0	0	0
YELISETGGSHDKR	STRBP; ILF3	Q96SI9; Q12906	STRBP	HUM	Unmodified	1877100	1711000	1871000	110860	0	71035	0	0	0
YEMFAQTLQQSR	VCP; VCP; VCP; VC	P55072; C9JUP7;	TERA	HUM	Oxidation (M)	1643500	2330700	618330	0	13848	0	0	0	0
YEMLKEHER	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Oxidation (M)	386630	599800	0	24905	13968	15869	0	0	0
YEMYPLGVK	BDH1; BDH1; BDH1	Q02338; E9PCG9	BDH	HUMA	Oxidation (M)	2093900	1276800	1542500	0	0	0	0	0	0
YENGAFQER	DTYMK; DTYMK; D	P23919; H7C312;	KTHY	HUM	Deamidation (N)	1800000	1398500	1345000	0	0	0	0	0	0
YERDVVAQQESILALEKFPTPASR	TAF2	Q6P1X5	TAF2	HUM	Unmodified	1674000	0	0	0	0	0	0	0	0
YESGDHVAVYPANDSALVNQLGK	POR; POR; POR	P16435; H0Y4R2;	NCPR	HUM	Deamidation (N)	1573300	1616600	1426900	0	0	0	0	0	0
YESHPVCADLQAK	CHCHD3; CHCHD3	Q9NX63; C9JRZ6	MIC19	HUM	Unmodified	1655200	2207300	1749600	96171	0	74078	0	0	0
YESLTDPSK	HSP90AB4P; HSP90;	Q58FF6; Q14568;	H90B4	HUM	Unmodified	31330000	36205000	28548000	176100	159090	154880	0	0	0
YESLTDPSKLDSGK	HSP90AA2P; HSP90;	Q14568; P08238;	HS902	HUM	Unmodified	34489000	30799000	31373000	448270	486000	485530	0	0	0
YESLTDPSKLDSGKELHINLIPNKQDR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Unmodified	2234000	6787900	8901000	0	0	0	0	0	0
YESLTDPSKLDSGKELHINLIPNKQDR	HSP90AA1; HSP90A	P07900; G3V2J8	HS90A	HUM	Deamidation (N)	3401000	2657400	2822600	0	0	0	0	0	0
YESLTDPSKLDSGKELK	HSP90AB1; HSP90A	P08238; Q58FF8;	HS90B	HUM	Methyl (KR)	661140	682890	773610	0	0	0	0	0	0
YESQEPLAGQESPLPLATR	TNKS1BP1	Q9C0C2	TB182	HUM	Unmodified	0	0	0	67665	60166	62443	0	15872	18078
YESSALPSGQLTSLSEYASR	TRAP1; TRAP1	Q12931; I3L0K7	TRAP1	HUM	Unmodified	8576100	8631800	6738900	80648	72906	33174	0	0	20067
YETELAMR	KRT18; KRT18	P05783; F8VZY9	K1C18	HUM	Oxidation (M)	3120300	2866800	2334400	567210	661400	713850	0	0	0
YETSSTSAGDRYDSLLGR	PPP1R12A; PPP1R12	O14974; H0YIS3;	MYPT1	HUM	Unmodified	898060	857820	789120	41292	55107	72200	19580	28238	43671
YETTGLSEAR	STXBP2; STXBP2	Q15833; M0R0M7	STXB2	HUM	Unmodified	208360	368010	1356400	0	0	0	0	0	0
YETVIMPVFGIATPFHIATIK	SUPT16H	Q9Y5B9	SP16H	HUM	Oxidation (M)	732480	442700	580250	0	0	0	0	0	0
YEVTSGGGGTSR	DSP	P15924	DESP	HUM	Unmodified	5754400	6358300	7454500	480760	633070	640670	0	0	0
YEWDVAEAR	EEF2	P13639	EF2	HUM	Unmodified	7500900	7896000	6101000	76305	78393	113380	0	0	0
YEYQPFAGK	WDR1; WDR1	O75083; D6RD66	WDR1	HUM	Unmodified	1919200	1803400	1746100	148890	0	0	0	0	0
YFDLGLPNR	IDH2	P48735	IDHP	HUM	Unmodified	0	1868600	2049900	0	0	0	0	0	0
YFDPANGK	EEF2	P13639	EF2	HUM	Deamidation (N)	2800900	2486800	2728500	0	0	30298	0	0	0
YFDPANGKFSK	EEF2	P13639	EF2	HUM	Deamidation (N)	3227300	4698500	3300400	70404	91939	126720	0	0	0
YFDRVDENNPEYLR	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	222540	413220	1001900	0	222190	210010	0	0	0
YFDRVDENNPEYLRER	ADD1; ADD1; ADD1	P35611; E7EV99;	ADDA	HUM	Unmodified	997600	906820	1022500	571110	346520	499060	47490	26541	0
YFDSGDYNMAK	ARPP19; ENSA; ARI	P56211; O43768;	ARP19	HUM	Oxidation (M)	1348900	1650800	2265200	0	0	0	0	0	0
YFDSGDYNMAK	ARPP19; ENSA; ARI	P56211; O43768;	ARP19	HUM	Oxidation (M);Deai	728260	1056200	1111100	0	0	0	0	0	0
YFECQAK	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	2034000	2108300	2067900	13346	0	0	0	0	0
YFEITDESPYVHYLNTFSSK	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C	HUM	Unmodified	1857400	1790500	0	0	0	0	0	0	0
YFEITDESPYVHYLNTFSSK	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C	HUM	Deamidation (N)	1373800	952010	1231600	0	0	0	0	0	0
YFEITDESPYVHYLNTFSSKEPQR	CORO1C; CORO1C	Q9ULV4; B4E3S0	COR1C	HUM	Unmodified	0	2751700	0	0	0	0	0	0	0
YFEQLLEEEREK	P4HA2	O15460	P4HA2	HUM	Unmodified	552640	704020	618090	0	0	0	0	0	0
YFGGTEDR	FSCN1	Q16658	FSCN1	HUM	Unmodified	1689700	1865200	1669100	0	0	0	0	0	0
YFLEMKNK	MYO1B; MYO1B	O43795; E9PDF6	MYO1B	HUM	Oxidation (M);Meti	11816000	13071000	4490400	1764200	1640800	2046700	81500	102610	81274
YFLPPGVR	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2	HUM	Unmodified	0	1053400	1088200	52226	27375	35358	0	0	0
YFLQAAK	XPNPEP1; XPNPEP1	Q9NQW7; Q5T6H	XPP1	HUM	Unmodified	1457200	1362400	1886100	0	0	0	0	0	0
YFLWVVK	GRB2	P62993	GRB2	HUM	Unmodified	161350	260810	220490	0	0	0	0	0	0
YFPTQALNFAFK	SLC25A4; SLC25A6;	P12235; P12236; (	ADT1	HUM	Deamidation (N)	1000700	0	0	0	0	0	0	0	0
YFPTQALNFAFK	SLC25A4; SLC25A6;	P12235; P12236; (	ADT1	HUM	Unmodified	2789100	1955900	1930400	0	0	12194	0	0	0
YFQFQEEGK	ARPC2	O15144	ARPC2	HUM	Unmodified	583340	431390	0	0	0	0	0	0	0
YFQFQEEGKEGENR	ARPC2	O15144	ARPC2	HUM	Unmodified	1690500	1329900	1435900	0	0	0	0	0	0
YFQHLLGK	HYOU1; HYOU1; HY	Q9Y4L1; J3QL06;	HYOU1	HUM	Unmodified	0	654480	0	0	0	0	0	0	0
YFQIGTIVDNPADFYHSR	DNTTIP2	Q5QJE6	TDIF2	HUM	Unmodified	1061800	778700	0	0	0	0	0	0	0
YFSSMAEFLK	PRPF31; PRPF31	Q8WWY3; E7EV7	PRP31	HUM	Oxidation (M)	1634900	1157800	0	0	63078	0	0	0	0
YFTDAGLK	BZW2; BZW2; BZW	Q9Y6E2; B5MCE	BZW2	HUM	Unmodified	264280	245770	624390	0	0	0	0	0	0
YFTDAGLKELSDFLR	BZW2; BZW2; BZW	Q9Y6E2; B5MCE	BZW2	HUM	Unmodified	0	46884	289990	0	0	0	0	0	0
YFTEAGLK	BZW1; BZW1	Q7L1Q6; C9IZ80	BZW1	HUM	Unmodified	764410	2182200	1547300	0	0	0	0	0	0
YFTEAGLKELSEYVR	BZW1; BZW1	Q7L1Q6; C9IZ80	BZW1	HUM	Unmodified	1462100	2314400	1012600	0	0	0	0	0	0
YFTWDPSR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	2704100	4170100	2711000	0	0	0	0	0	0
YFTWDPSREPQPR	GANAB; GANAB; G	Q14697; F5H6X6;	GANAB	HUM	Unmodified	33853000	25769000	27475000	182560	183960	166750	24909	28196	22665
YFVQGMGYMPSASMTR	NDRG1; NDRG1; NE	Q92597; E7ESM1	NDRG1	HUM	3 Oxidation (M)	1938800	2016300	2072300	0	0	0	0	0	0
YFYVSAEQVVQGMKEAQER	TXNDC12	O95881	TXD12	HUM	Oxidation (M)	3379900	1918700	1396400	0	0	0	0	0	0
YGAASGVVPGSLWPSPEQLR	GADD45GIP1	Q8TAE8	G45IP	HUM	Unmodified	994760	657490	886380	0	0	0	33011	31548	35720
YGAATANYMEVVSLLK	GPD2; GPD2	P43304; F5GYK7	GPDM	HUM	Oxidation (M)	2358000	869860	2135500	0	0	0	0	0	0
YGAATFTR	PZP; A2M	P20742; P01023	PZP	HUMA	Unmodified	729480	0	183440	0	0	0	0	0	0
YGAHNYHPLPVALER	OAT	P04181	OAT	HUMA	Unmodified	4894700	4545800	4649800	0	77594	0	0	0	0
YGAHNYHPLPVALER	OAT	P04181	OAT	HUMA	Deamidation (N)	2190000	2768300	2476300	0	0	0	0	0	0
YGAIRDIDLK	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Unmodified	6466400	4054700	6804800	88966	133130	89923	0	0	0
YGAIRDIDLKNR	SRSF1; SRSF1; SRSF	Q07955; J3KTL2;	SRSF1	HUM	Deamidation (N)	932550	551830	526990	0	19685	14661	13566	0	0
YGALPDQGIAK	IGBP1	P78318	IGBP1	HUM	Unmodified	963610	1558600	596160	220160	260090	0	0	0	0
YGCLAGVR	RCC2	Q9P258	RCC2	HUM	Unmodified	1974500	1185700	1984700	0	0	0	0	0	0
YGDFFIR	EIF3L; EIF3L; EIF3L	Q9Y262; B0QY89	EIF3L	HUM	Unmodified	3546500	3211300	2825000	0	0	30370	0	0	0

YGDFRADDADEFGYSR	SND1	Q7KZF4	SND1_HUMA	Unmodified	7974500	6734800	5249600	1304100	1182900	901970	400770	51782	376430
YGDGGSTFQSTTGHCVHMR	HNRNPH1; HNRNPF	P31943; H0YBD7	HNRH1_HUM	Oxidation (M)	1303300	1837800	1596700	129820	0	0	0	0	0
YGDGIQLTR	DSP	P15924	DESP_HUMA	Unmodified	7733500	10713000	13858000	835210	691310	971230	49242	19804	74176
YGDLANWMIPGK	OXCT1; OXCT2; OX	P55809; Q9BYC2	SCOT1_HUM	Oxidation (M)	1018300	936780	1295500	0	0	0	0	0	0
YGDSEFTVQSTTGHCVHMR	HNRNPF	P52597	HNRPF_HUM	Oxidation (M)	1606100	1682100	1328200	154890	84536	56313	0	0	0
YGEAGEGPGWGGAHPR	VARS1; VARS1; VAI	P26640; A2ABF4;	SYVC_HUMA	Unmodified	2109100	2204800	1575900	110100	152180	108030	0	22938	0
YGEDSEQFRDASK	ATP6AP2; ATP6AP2	O75787; A0A1B0	RENR_HUMA	Unmodified	383930	0	646270	0	20888	0	0	0	0
YGEGHQAWIVGIVEK	SEPHS2	Q99611	SPS2_HUMA	Unmodified	280290	190360	232710	0	0	0	0	0	0
YGEIPAELR	GFM1; GFM1; GFM1	Q96RP9; C9JZ01;	EFGM_HUM	Unmodified	11582000	9060800	8154800	705210	846440	656000	0	0	0
YGEPGEVFINK	SFPQ	P23246	SFPQ_HUMA	Unmodified	4366900	5100900	4063400	299170	0	0	0	0	0
YGEPGEVFINKGK	SFPQ	P23246	SFPQ_HUMA	Unmodified	2051800	2137500	2110600	66714	72315	0	0	0	0
YGEPGEVFINKGK	SFPQ	P23246	SFPQ_HUMA	Deamidation (N)	2532700	2345000	1636900	0	0	0	0	0	0
YGEPSEVFINR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Unmodified	0	0	0	0	0	0	0	0	0
YGEPSEVFINRDR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Unmodified	1065100	906390	1074900	0	0	0	14651	0	0
YGEPSEVFINRDR	PSPC1; PSPC1	Q8WXF1; X6RDA	PSPC1_HUM	Deamidation (N)	1107300	919680	1093800	0	0	0	0	0	0
YGEQGLR	DNAJA2	O60884	DNJA2_HUM	Unmodified	3458400	3387900	0	70081	65032	75721	0	0	0
YGEYFPGTGDLR	HDAC2; HDAC1; HD	Q92769; Q13547;	HDAC2_HUM	Unmodified	5372600	5153300	5082500	109100	107530	148680	0	0	0
YGEYFPGTGDLRDIGAGK	HDAC2; HDAC1; HD	Q92769; Q13547;	HDAC2_HUM	Unmodified	5185300	4910100	895830	58540	0	0	0	0	12164
YGFIEGHVVIPR	CD44; CD44; CD44;	P16070; H0Y2P0;	CD44_HUMA	Unmodified	0	976630	0	81089	71689	46616	99247	89407	0
YGFLWPGLNVPLMK	MRPS5	P82675	RT05_HUMA	Oxidation (M)	372570	235190	0	0	0	0	0	0	0
YGFLWPGLNVPLMKNGAVQTIAQR	MRPS5	P82675	RT05_HUMA	Oxidation (M);Deam	1019200	698640	650210	0	0	0	0	0	0
YGFREGQGLGKHEQGLSTALSVEK	RBM17; RBM17; RB	Q96I25; Q5W012;	SPF45_HUM	Unmodified	488730	458090	573150	0	0	0	0	0	0
YGGDEIPFSPYR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	20546000	13039000	15627000	299920	0	230710	211110	176820	0
YGGDEIPFSPYRVR	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	335430	526810	0	292480	296860	285080	511200	424740	453580
YGGDEIPYSPFR	FLNC	Q14315	FLNC_HUMA	Unmodified	0	0	0	0	0	0	0	0	157790
YGGEEEDQPIYLAVK	NENF	Q9UMX5	NENF_HUMA	Unmodified	6060100	7096400	8665700	147310	134740	129830	0	0	0
YGGELVPHFPAR	FLNB; FLNB	O75369; E7EN95	FLNB_HUMA	Unmodified	1912500	3566400	2708200	311320	282170	321480	76174	42267	51196
YGGETKVYVGNLGTGAGKGELER	SRSF7; SRSF7; SRSF	Q16629; A0A0B4	SRSF7_HUM	Unmodified	373280	327050	294070	373000	213640	230100	0	0	0
YGGISTASVDFEQPTR	RBM10	P98175	RBM10_HUM	Unmodified	0	0	766510	0	0	0	0	0	0
YGGLKTPTQLEGATR	MTA2	O94776	MTA2_HUM	Unmodified	1089200	938010	820470	37487	0	36959	0	0	0
YGGPNHIVGSPFK	FLNB; FLNB; FLNB	O75369; A0A0A0	FLNB_HUMA	Unmodified	862200	582290	1264200	99202	109370	101130	15159	0	0
YGGPNHIVGSPFK	FLNB; FLNB; FLNB	O75369; A0A0A0	FLNB_HUMA	Deamidation (N)	566380	433060	533300	72499	74470	183260	0	0	0
YGGPPPDSVYSGQQPSVGTEIFVGK	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	3698000	1246800	2242000	0	0	0	0	0	0
YGGPPPDSVYSGQQPSVGTEIFVGKIPR	SYNCRIP; SYNCRIP	O60506; B7Z645;	HNRPQ_HUM	Unmodified	5139000	0	3097700	0	0	0	0	0	0
YGGPPPDSVYSGVQPGIGTEVFVGK	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR_HUM	Unmodified	17292000	16320000	11261000	39478	25955	21909	0	0	0
YGGPPPDSVYSGVQPGIGTEVFVGKIPR	HNRNPR; HNRNPR	O43390; A0A6Q8	HNRPR_HUM	Unmodified	8837600	12052000	6150600	0	0	0	0	0	0
YGGPYHIGGSPFK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA_HUMA	Unmodified	6558600	7368400	6237900	116820	121180	122330	107430	118510	126070
YGGQPLFSEK	HNRNPUL2; HNRNF	Q1KMD3; H3BQ	HNRL2_HUM	Unmodified	3256300	2866000	1992400	99694	61056	59228	0	0	0
YGGQPLFSEKFPTLWSGAR	HNRNPUL2; HNRNF	Q1KMD3; H3BQ	HNRL2_HUM	Unmodified	19714000	13071000	18433000	20461	0	0	27362	0	0
YGGQPLFSEKFPTLWSGAR	HNRNPUL2; HNRNF	Q1KMD3; H3BQ	HNRL2_HUM	Methyl (KR)	3700100	3303000	3286500	0	0	0	0	0	0
YGGQPVPNFPSK	FLNA; FLNA	P21333; Q60FE5	FLNA_HUMA	Unmodified	2285300	1859100	2086500	89033	0	102380	0	50528	72501
YGGSPRDPVLTLR	ANKLE2	Q86XL3	ANKL2_HUM	Unmodified	1196900	742950	1105500	53509	54968	0	0	0	0
YGGSVGSQPPPVAPEPGPVPSSPSQEPPTKR	UBXN1; UBXN1; UB	Q04323; E9PS08;	UBXN1_HUM	Unmodified	3252200	5153300	2544600	0	0	113240	0	0	0
YGGTFQNVSVQLPITLNK	AP2A2; AP2A2	O94973; A0A0G2	AP2A2_HUM	Unmodified	584180	257970	231920	0	0	0	0	0	0
YGIICMEDLIHEIYTVGKR	RPL7; RPL7	P18124; A8MUD6	RL7_HUMAN	Oxidation (M)	1122400	1076600	1230200	0	0	0	0	0	0
YGIQMPAFSK	IQGAP1; IQGAP1	P46940; A0A0J9Y	IQGA1_HUM	Oxidation (M)	2202200	1714700	2460800	91546	111110	0	0	0	0
YGISGELAMRPLASLSGGQK	ABCF3	Q9NUQ8	ABCF3_HUM	Oxidation (M)	952660	808040	920020	36412	0	0	0	0	0
YGISSMIQSQEKPDR	DARS1; DARS1	P14868; H7C278	SYDC_HUMA	Oxidation (M)	1470800	2724500	3007300	65521	43318	72345	0	0	0
YGIVDYMIEQSGPPSKEILTLK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Oxidation (M)	1032900	468570	665320	0	0	0	0	0	0
YGIVDYMIEQSGPPSKEILTLK	PDIA4; PDIA4	P13667; A0A499	PDIA4_HUM	Oxidation (M);Metl	396360	357330	0	0	0	0	0	0	0
YGKDATNVGDEGGFAPNILENK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	9681500	8166300	8753100	0	0	0	0	0	0
YGKDATNVGDEGGFAPNILENK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Methyl (KR)	3528400	3011500	2115600	0	0	0	0	0	0
YGKDATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Unmodified	12259000	16193000	11544000	0	0	0	0	0	0
YGKDATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Deamidation (N)	8903600	0	0	0	0	0	0	0	0
YGKDATNVGDEGGFAPNILENKEGLELLK	ENO1; ENO1	P06733; A0A2R8	ENOA_HUM	Methyl (KR)	3481900	0	1533900	0	0	0	0	0	0
YGKIETIEVMEDR	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Oxidation (M)	50180000	45334000	46941000	797340	875410	835050	0	0	0
YGKIETIEVMEDR	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Oxidation (M);Metl	3226800	2831300	2971300	0	0	0	0	0	0
YGKIETIEVMEDRQSGK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Oxidation (M)	15523000	14063000	15007000	189070	352460	216480	0	0	0
YGKIETIEVMEDRQSGKK	HNRNPA3; HNRNP A	P51991; A0A7I2V	ROA3_HUMA	Oxidation (M)	1570600	1486200	2371900	46784	0	57316	0	0	0
YGKSPYLYPLYGLGELPQGFAR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Unmodified	6098400	5797900	4436300	0	0	0	0	0	0
YGKSPYLYPLYGLGELPQGFAR	GDI1; GDI2; GDI2; G	P31150; P50395; (	GDIA_HUMA	Methyl (KR)	3724500	2779300	2888000	0	0	0	0	0	0
YGLAAAVFTR	ALDH1B1	P30837	AL1B1_HUM	Unmodified	800230	1108000	1439000	0	0	0	0	0	0
YGLFKEENPYAR	PTTG1IP; PTTG1IP	P53801; A8MXQ1	PTTG_HUMA	Unmodified	3355700	5262400	3703300	47369	54111	120840	0	0	0
YGLFPANYVELRQ	CTTN	Q14247	SRC8_HUMA	Unmodified	2362000	1610300	1303600	12286	0	108510	194730	137710	195930
YGLFPANYVELRQ	CTTN	Q14247	SRC8_HUMA	Deamidation (N)	1527800	2509000	0	0	11568	0	65199	40381	62166
YGLIYHASLVGQTSPK	NOP58	Q9Y2X3	NOP58_HUM	Unmodified	2347600	1741100	2210800	0	27310	0	0	0	0
YGLKPPTL	TOMM70	O94826	TOM70_HUM	Unmodified	5763500	5560600	8550000	527720	532180	503260	103520	103650	113520
YGLLPSHASYL	YRDC	Q86U90	YRDC_HUM	Unmodified	712880	702520	451010	18445	22764	21416	0	9010.4	0
YGLSSMQGWR	PPM1A; PPM1B; PPI	P35813; O75688;	PPM1A_HUM	Oxidation (M)	1617300	820610	1588100	0	30864	0	0	0	0
YGLVTYATYPK	CFB; N/A; N/A; CFB	P00751; B4E1Z4;	CFAB_HUMA	Unmodified	1194700	1155500	1483000	99023	61180	79232	0	30807	0
YGMNPHQTPAQLYTLQPK	ATIC; ATIC	P31939; C9JLK0	PUR9_HUMA	Oxidation (M)	16871000	12712000	20290000	557590	364820	592270	49282	0	25255
YGMPPQDAFTTQWLVR	CHD4; CHD4; CHD4	Q14839; A0A2R8	CHD4_HUMA	Oxidation (M)	2346600	1902200	1354600	0	0	0	0	0	0
YGMSDVMPSGR	PUM1; PUM1; PUM1	Q14671; Q5T1Z4;	PUM1_HUM	2 Oxidation (M)	2277400	2202700	2137600	332380	214650	192560	0	0	0
YGNLGHVNIGAIQEPLAFILPK	COG8; COG8	Q96MW5; B4DY1	COG8_HUMA	Unmodified	161640	0	127680	0	0	0	0	0	0
YGNPWEK	PYGB; PYGM; PYGI	P11216; P11217;	PYGB_HUMA	Unmodified	3924800	3444700	3721100	202950	197170	0	0	0	0
YGPESLSEFTQWR	LRWD1; LRWD1; LF	Q9UFC0; H7C5S6	LRWD1_HUM	Unmodified	845850	374420	0	0	0	0	0	0	0
YGPIADVSIVYDQQSR	TRA2B	P62995	TRA2B_HUM	Unmodified	0	0	0	0	0	0	0	0	0
YGPIADVSIVYDQQSRR	TRA2B	P62995	TRA2B_HUM	Unmodified	2396000	0	0	0	0	0	0	0	0
YGPIVDVYVPLDFYTR	SRSF10; SRSF10; SR	O75494; Q6IQ42;	SRS10_HUM	Unmodified	204750	14540	67683	0	0	0	0	0	0
YGPLPGPAVPR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A_HUM	Unmodified	7265200	7885100	7425700	1780800	1644400	1632900	371930	400060	377170
YGPLSGVNVVYDQR	TRA2A	Q13595	TRA2A_HUM	Unmodified	2658500	2160500	2951200	30724	0	57488	0	0	0
YGPMEEPLVIEK	GPX4; GPX4; GPX4;	P36969; A0A087	GPX4_HUMA	Oxidation (M)	2478900	2190200	2655100	0	136970	137470	0	0	0
YGPMEEPLVIEKDLPHYF	GPX4; GPX4; GPX4	P36969; A0A087	GPX4_HUMA	Oxidation (M)	29597000	14747000	22687000	26327	0	0	31986	0	0
YGPQYGHPPPPPPPPEYGPHADSPVLMVYGLDQSK	HNRNPL; HNRNPL;	P14866; M0QXS5	HNRPL_HUM	Oxidation (M)	8858400	8026600	6044600	0	0	0	0	0	0
YGPSLMPGGNKEAWPHIK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Oxidation (M);Deam	7057500	7769800	5694800	0	0	0	0	0	0
YGPSLMPGGNKEAWPHIK	PGD; PGD; PGD; PG	P52209; K7EPF6;	6PGD_HUMA	Oxidation (M)	7164000	4454400	6288400	0	0	0	0	0	0
YGQHPNIITLK	RPS6KA6; RPS6KA1	Q9UK32; Q15418	KS6A6_HUM	Unmodified	1056900	1065100	1340500	0	0	0	0	0	0
YGQISEVVVVK	CIRBP; CIRBP; CIRE	Q14011; K7ELT6;	CIRBP_HUM	Unmodified	5505300	3670700	5515800	273350	205680	212360	17963	0	15916
YGQISEVVVVKDR	CIRBP; CIRBP; CIRE	Q14011; K7ELT6;	CIRBP_HUM	Unmodified	2792500	2689500	3109400	237710	174320	141800	90184	75103	87148
YGQISEVVVVKDRETQR	CIRBP; CIRBP; CIRE	Q14011; K7ELT6;	CIRBP_HUM	Unmodified	44817000	47873000	43885000	5521400	4049000	4614800	189730	85417	575950
YGQLSEK	PDCD5; PDCD5	O14737; K7EQA1	PDCD5_HUM	Unmodified	2295200	2425600	2521100	0	0	40870	0	0	0
YGQLSEKVSEQGLIEILKK	PDCD5; PDCD5	O14737; K7EQA1	PDCD5_HUM	Unmodified	935830	922360	547120	0	0	0	0	0	0
YGSDIVPFSK	XRCC5	P13010	XRCC5_HUM	Unmodified	43552000	35860000	35442000	958870	868030	1014000	0	23009	0
YGSDIVPFSKVDEEQMK	XRCC5	P13010	XRCC5_HUM	Oxidation (M)	8813400	8814400	8626500	268390	292310	197120	0	0	0
YGSDIVPFSKVDEEQMKYK	XRCC5	P13010	XRCC5_HUM	Oxidation (M)	4329500	0	5452000	0	216780	0	0	0	0
YGTCIYQGR	DEFA3; DEFA1	P59666; P59665	DEF3_HUMA	Unmodified	5798200	3297300	4861300	1449800	854530	2230800	1080300	1029100	0
YGTDLSR	ATP1A1; ATP1A1; A	P05023; Q5TC02;	AT1A1_HUM	Unmodified	12332000	6336100	11865000	1260500	1262700	1207300	9208.8	12385	0
YGTLFTMDR	TGFBI; TGFBI	Q15582; H0Y8L3	BGH3_HUMA	Oxidation (M)	506270	437770	679010	42420	30178	0	48767	42230	39585
YGVDLIR	WDR82	Q6UXN9	WDR82_HUM	Unmodified	1857400	1088100	1416200	31298	39880	44471	0	0	0
YGVFPLR	TOP2B; TOP2A; TOI	Q02880; P11388;	TOP2B_HUM	Unmodified	5801300	3137200	4858400	33797	46006	0	0	0	0
YGVIILDEAHER	DHX15	O43143	DHX15_HUM	Unmodified	12720000	13117000	16773000	245200	169650	180160	0	7771.8	0
YGVIIVGNPK	UPF1	Q92900	RENT1_HUM	Unmodified	962730	679060	667200	42084	54643	63131	0	0	0
YGVNPGPIVGTTR	TMPO; TMPO; TMPI	P42167; P42166; (	LAP2B_HUM	Unmodified	47237000	49745000	42973000	315680	297770	376600	0	0	30299
YGVNPGPIVGTTRK	TMPO; TMPO; TMPI	P42167; P42166; (	LAP2B_HUM	Unmodified	0	0	0	0	0	0	0	0	0
YGVSGYPTLK	PDIA3; PDIA3	P30101; H7BZJ3	PDIA3_HUM	Unmodified	9692800	0	10612000	0	385290	413100	0	0	0
YGVSSLQR	BTBD17	A6NE02	BTBDH_HUM	Unmodified	4688100	4046100	4059400	0	44390	0	0	0	0
YGYEIPVDMLCKR	PSMA6; PSMA6; PSI	P60900; G3V295;	PSA6_HUMA	Oxidation (M)	0	0	0	0	0	0	0	0	0
YGYILPDITKDELFK	MRPL15; MRPL15	Q9P015; E5RIZ4	RM15_HUMA	Unmodified	388160	481710	447940	0	0	0	0	0	0
YGYTEDPLEVR	ZNF638	Q14966	ZN638_HUM	Unmodified	1193300	1263000	1385700	66287	103250	54719	0	0	0
YGYTHLSAGELLR	CMPK1; CMPK1	P30085; Q5T0D2	KCY_HUMA	Unmodified	4155000	2290700	2415400	124940	74821	81714	0	0	11138
YGYTHLSAGELLRDER	CMPK1; CMPK1	P30085; Q5T0D2	KCY_HUMA	Unmodified	2809200	2492100	3099900	55670	105640	55734	0	0	0
YGYTHLSTGDLLR	AK1; AK1	P00568; Q5T9B7	KAD1_HUMA	Unmodified	10712000	11287000	10125000	45832	57922	47152	0	11549	17704
YHAEEVEERFGR	ZCCHC8; ZCCHC8;	Q6NZY4; F5H6J5	ZCHC8_HUM	Unmodified	587380	785440	1078700	0	0	0	0	0	0
YHDEADQSALQR	GTF3C1; GTF3C1	Q12789; H3BRD0	TF3C1_HUM	Unmodified	945410	829660	893190	0	130460	0	0	0	0
YHDMPDVIDFLVLR	PHIP; BRWD1; BRW	Q8WWQ0; Q9NSI	PHIP_HUMA	Oxidation (M)	932640	849010	1054700	0	0	0	0	0	0
YHFEDVGGVQGAR	RANGRF	Q9HD47	MOG1_HUM	Unmodified	1453400	1304600	1228200	57705	48707	48888	0	0	0
YHFNMGLLMGEAR	QARS1; QARS1; QA	P47897; A0A1B0	SYQ_HUMAN	2 Oxidation (M)	1060500	1065500	998910	33803	32842	34288	0	0	0
YHLGAYTGDDVR	TPSAB1; TPSB2; TP	O15661; P20231;	TRYB1_HUM	Unmodified	0	0	0	195870	210610	167340	32766	0	0
YHNVGLSK	HNRNPD; HNRNPD;	Q14103; H0YAG6	HNRPD_HUM	Unmodified	1805800	0	0	107350	176950	113900	0	0	0
YHPMDYYWWLR	BDH1; BDH1	Q02338; E9PCG9	BDH_HUMAN	Oxidation (M)	972170	931260	708540	0	0	0	0	0	0
YHQISGK	HNRNPDL; HNRNPI	O14979; A0A087	HNRDL_HUM	Unmodified	2459900	2104100	2410800	104640	123580	36966	0	0	0
YHSDDYIK	HDAC1; HDAC1	Q13547; Q5TEE2	HDAC1_HUM	Unmodified	718010	693430	870750	0	29184	43383	0	0	0
YHSDEYIK	HDAC2; HDAC2; HD	Q92769; E5RFP9;	HDAC2_HUM	Unmodified	363680	442330	660410	0	0	0	0	0	0
YHSLAPMYYR	RAB5B; RAB5C; RA	P61020; P51148;	RAB5B_HUM	Oxidation (M)	10279000	9535200	13484000	397470	285440	416130	21947	20889	52390
YHTINGHNAEVR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	51312000	44883000	48312000	1670200	2382500	2408100	87287	55343	170220
YHTINGHNAEVR	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	22862000	19970000	21064000	1055000	1329800	1260900	0	0	0
YHTINGHNAEVRK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	Deamidation (N)	19829000	30170000	23243000	643940	969420	1371000	0	323120	0
YHTINGHNAEVRK	HNRNPA2B1; HNRN	P22626; A0A7I2V	ROA2_HUMA	2 Deamidation (N)	7801100	8233100	9224600	0	0	0	0	0	0
YHTSQSGDEMTSLSEYVSR	HSP90AB1	P08238	HS90B_HUM	Oxidation (M)	185340000	159080000	168600000	2204900	1979500	2335000	207660	266090	63561
YHVPVVVVPEGSASDTHEQAILR	RPN2; RPN2; RPN2	P04844; Q5JYR7;	RPN2_HUMA	Unmodified	0	0	4651500	0	0	0	0	0	0
YIAENGTDPINNQPLSEEQLIDIK	PRPF19; PRPF19	Q9UMS4; F5GY5(	PRP19_HUM	2 Deamidation (N)	9842600	4352500	10443000	0	0	0	0	0	0
YIAENGTDPINNQPLSEEQLIDIK	PRPF19; PRPF19	Q9UMS4; F5GY5(	PRP19_HUM	Deamidation (N)	0	3488700	3512600	0	0	0	0	0	0

YIAPTVLTDVDPK	ALDH3A2; ALDH3A	P51648; A0A5F9	ALA3A2	HUM	Unmodified	5234000	5330100	6553900	180450	144490	163670	0	0	0
YIASVQGSTPSPR	RANBP2; RANBP2	P49792; F8WBP7	RBP2	HUM	Unmodified	1596100	1649000	1306500	151420	140260	180390	0	0	0
YIDPSGFVK	USP48; USP48	Q86UV5; E9PRY5	UBP48	HUM	Unmodified	1342600	1307900	1379400	21004	20473	29365	0	0	0
YIDQEELNK	HSP90AA2P; HSP90,	Q14568; P08238;	HS902	HUM,	Unmodified	49380000	42112000	54524000	1545300	1618700	1838100	0	0	0
YIDQEELNK	HSP90AA2P; HSP90,	Q14568; P08238;	HS902	HUM,	Deamidation (N)	8136900	7018800	6920300	215130	69265	0	0	0	0
YIDQEELNKTKPIWTR	HSP90AA2P; HSP90,	Q14568; P08238;	HS902	HUM,	Unmodified	10904000	12869000	11153000	0	131530	226540	0	0	0
YIDQEELNKTKPIWTR	HSP90AA2P; HSP90,	Q14568; P08238;	HS902	HUM,	Deamidation (N)	13371000	10376000	12686000	222610	148790	217270	0	0	0
YIDQEELNKTKPIWTRNPDDITNEEYGEFYK	HSP90AA1	P07900	HS90A	HUM,	Unmodified	1361800	1121900	2716700	0	0	0	0	0	0
YIDQEELNKTKPIWTRNPDDITQEEYGEFYK	HSP90AB1	P08238	HS90B	HUM,	Unmodified	1529800	1028900	1212900	0	0	0	0	0	0
YIDSADLEPITSQEEPVR	CTPS1; CTPS1; CTP	P17812; B4E1E0;	PYRG1	HUM	Unmodified	1002300	1252600	1453700	0	0	0	0	0	0
YIDTEHGGSQAR	SEC23A; SEC23A	Q15436; F5H365	SC23A	HUM,	Unmodified	8266400	0	0	558370	0	1006500	0	0	145100
YIEEAIEK	GLUL; GLUL	P15104; A0A2R8	GLNA	HUM,	Unmodified	0	1440600	0	0	41637	0	0	0	0
YIEIFK	HNRNPH1; HNRNPI	P31943; P55795;	HNRH1	HUM	Unmodified	4812100	0	8267400	66637	94786	53843	0	0	0
YIEIFPSR	GRSF1; GRSF1; GRS	Q12849; H0Y8R1;	GRSF1	HUM,	Unmodified	2897500	2812000	2733000	19467	35979	16022	0	0	0
YIELFR	ESRP1; ESRP2; ESRI	Q6NXG1; Q9H6T	ESRP1	HUM,	Unmodified	49472000	53252000	43082000	309750	303900	332520	27427	29180	23357
YIELLTR	DSP	P15924	DESP	HUM	Unmodified	24099000	23272000	22142000	562030	597270	613980	17593	21884	14396
YIEVFKSSQEEVR	HNRNPF	P52597	HNRPF	HUM	Unmodified	6601200	5765400	6635800	187220	0	0	0	0	0
YIEVFKSSQEEVR	HNRNPF	P52597	HNRPF	HUM	Methyl (KR)	0	604160	573260	0	0	0	0	0	0
YIFTMLSSLAR	TOP2A	P11388	TOP2A	HUM	Oxidation (M)	4805900	4410100	7034100	0	0	0	0	0	0
YIFTMLSTLAR	TOP2B; TOP2B	Q02880; E9PCY5	TOP2B	HUM	Oxidation (M)	4273200	4024200	5347400	0	0	0	0	0	0
YIGIVKQAGLER	HNRNPF	P52597	HNRPF	HUM	Unmodified	363960	522650	435220	150830	127040	121960	0	10441	0
YIHFPVTVVSAPGLAPSATPGAPR	KMT2B; KMT2B	Q9UMN6; A0A66	KMT2B	HUM,	Unmodified	1525300	244700	1202200	0	0	0	0	0	0
YIHLENLLAR	SMU1	Q2TAY7	SMU1	HUM,	Unmodified	8004600	5666200	7585300	46989	37575	19946	0	13871	0
YIIIGDMGVGK	RAB14; RAB14	P61106; X6RFL8	RAB14	HUM	Oxidation (M)	0	2061100	1922500	0	0	0	0	0	0
YIIIGDTGVGK	RAB2A; RAB2B; RA	P61019; Q8WUD1	RAB2A	HUM	Unmodified	1976700	2175100	867840	186000	165490	167680	14976	0	15510
YIKMFVLDEADEMLSR	EIF4A1; EIF4A1; EIF	P60842; J3KTB5;	IF4A1	HUMA	2 Oxidation (M)	454680	388990	506170	0	0	0	0	0	0
YIKTSGNATVDHLSK	RNF2	Q99496	RING2	HUM,	Unmodified	0	0	0	0	0	0	0	0	0
YILPDEPAIIVHPNWAAK	CCAR1; CCAR1; CC	Q8IX12; H0YFJ7;	CCAR1	HUM	Unmodified	4242700	2671200	2720300	0	0	0	0	0	0
YIMLNPSSR	TOP1	P11387	TOP1	HUM,	Oxidation (M)	2580900	3559400	2855100	0	0	18073	0	0	0
YINENLIVNTDELGR	TCP1; TCP1; TCP1;	P17987; F5H7Y1;	TCPA	HUM	Unmodified	0	0	0	20578	13458	15464	0	25493	10359
YINTEHGGSQAR	SEC23B; SEC23B; SI	Q15437; A0A2R8	SC23B	HUM,	Unmodified	1266700	951430	1213000	1869000	433240	515980	55340	44311	41984
YIQEAEMLR	CSTF1; CSTF1	Q05048; A0A0A0	CSTF1	HUM,	Oxidation (M)	1405300	1490700	2069300	72228	56866	77476	0	0	0
YIQELWR	RPL15; RPL15; RPL	P61313; E7ENU7;	RL15	HUMA	Unmodified	737880	669060	752360	0	0	0	0	0	0
YIQPWESEFIDSQR	PRPF8	Q6P2Q9	PRP8	HUMA	Unmodified	3177700	2112800	1726800	0	0	0	0	0	0
YIQQTKPLTLER	NUDT21	O43809	CPSF5	HUM,	Unmodified	6091500	5998700	7286300	113460	91888	145290	0	0	0
YISAAPGAEAK	PUM1; PUM2; PUM1	Q14671; Q8TB72;	PUM1	HUM,	Unmodified	5130500	4983400	4387000	215490	78425	36278	0	0	0
YISGSIHYSR	GLB1; GLB1; GLB1;	P16278; C9JF15;	BGAL	HUM,	Unmodified	805680	1129100	917830	0	0	46817	0	0	0
YISPDQLADLYK	ENO1; ENO1	P06733; A0A2R8	ENOA	HUM,	Unmodified	226790000	231910000	237070000	360930	344810	322600	179080	212190	146890
YISSQIERPIR	SNRNP200	O75643	U520	HUMA	Unmodified	1651100	1846600	1257800	0	26950	0	0	0	0
YITDWQNVFR	PDCD6; PDCD6	O75340; A0A024	PDCD6	HUM	Unmodified	2143400	1937900	1832500	0	0	0	0	0	0
YITGDQLGALYQDFVR	ENO2; ENO2; ENO2	P09104; F5H0C8;	ENOG	HUM,	Unmodified	4317900	3274500	4418300	0	0	0	0	0	0
YITQNGDYQLR	AP1M1; AP1M1; AP	Q9BXS5; K7EJL1	AP1M1	HUM	Deamidation (N)	932880	1281800	1268900	0	0	32287	0	0	0
YIVIEPTR	TMEM11	P17152	TMM11	HUM	Unmodified	3538600	3352800	3521600	0	0	11220	0	0	0
YIVLAKDFEK	PSMC4	P43686	PRS6B	HUM	Unmodified	1271400	1401400	1317300	0	0	0	0	0	0
YIVPMLTVDGK	AKR1A1	P14550	AK1A1	HUM	Oxidation (M)	1785600	1880000	2194300	99356	82873	96336	0	12182	0
YIVPMLTVDGKR	AKR1A1	P14550	AK1A1	HUM	Oxidation (M)	6268800	4405000	0	139480	146360	281890	0	0	0
YIVSGTPTFVPYLIK	NRCAM; NRCAM; N	Q92823; C9JYY6;	NRCAM	HUM	Unmodified	1005100	902750	0	0	0	0	0	0	0
YIYDSAFHPDTGEK	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM,	Unmodified	16388000	13831000	12917000	105120	66367	103600	0	0	0
YIYDSAFHPDTGEKMILIGR	SFXN1; SFXN1; SFX	Q9H9B4; D6RFI0;	SFXN1	HUM,	Oxidation (M)	16831000	10887000	14063000	32384	23865	16170	0	11571	0
YKASITALEAK	MYH9	P35579	MYH9	HUM,	Methyl (KR)	1361300	0	1563000	0	0	0	0	0	0
YKDAIHFYNK	STIP1	P31948	STIP1	HUMA	Unmodified	2170000	2008700	1980900	0	0	0	0	0	0
YKDGVVTIGCVGFPNVGK	GNL1; GNL1	P36915; A0A140	GNL1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
YKDNPFSLGESFGSR	ARFGAP2; ARFGAP	Q8N6H7; E9PMU	ARFG2	HUM	Unmodified	925060	1111900	1532200	31362	17278	19362	0	0	0
YKEETIEKMQE	RPL26	P61254	RL26	HUMA	Oxidation (M)	1649900	2322300	2640300	0	328210	331640	0	0	0
YKEEYAVLSEAQAIK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	1459900	1006200	1166400	0	0	0	0	0	0
YKELGEKLSKDPNIVIAK	PDIA3	P30101	PDIA3	HUM,	Unmodified	3702900	4155400	4749400	49516	30364	0	0	0	0
YKELGEKLSKDPNIVIAK	PDIA3	P30101	PDIA3	HUM,	Methyl (KR)	751510	1047900	1097400	0	0	0	0	0	0
YKGQHVPGSPFQFTVGPLGEGGAHK	FLNA; FLNA; FLNA;	P21333; A0A7P0	FLNA	HUMA	Unmodified	7869400	6666200	8284300	0	0	0	0	0	0
YKLDEDEDEDDADLSK	ZRANB2	O95218	ZRAB2	HUM	Unmodified	377050	0	141430	0	0	0	0	0	0
YKLDKESYPVFYLFR	ERP29; ERP29	P30040; F8VV02	ERP29	HUM,	Unmodified	1351300	1428200	2177900	0	0	0	0	0	0
YKPESEELTAER	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM,	Unmodified	56236000	51401000	65436000	1946500	1547600	1487900	0	0	0
YKPESEELTAER	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM,	Methyl (KR)	871170	1166400	671060	33805	55697	64737	0	0	0
YKPYEEALLQAEAPR	SART3; SART3	Q15020; A0A499	SART3	HUM	Unmodified	5103500	3275000	2120900	126740	76845	53290	0	0	0
YKQDVYLLPK	AHCYL1; AHCYL2;	O43865; Q96HN2	SAHH2	HUM	Unmodified	2957600	2818800	3262500	516720	568110	399200	0	37465	0
YKQFSQILK	GBE1; GBE1	Q04446; E9PGM4	GLGB	HUM	Unmodified	0	991570	0	0	0	0	0	0	0
YKSTTSVSEEDVSSR	PAWR	Q96IZ0	PAWR	HUM,	Unmodified	1223300	1498900	1389400	135410	0	150950	0	0	0
YKVEGFPTIYFAPSGDK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM,	Unmodified	2179600	1536800	1548900	14627	0	0	0	0	0
YKVEGFPTIYFAPSGDK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM,	Methyl (KR)	521110	575140	0	0	0	0	0	0	0
YKVEGFPTIYFAPSGDKK	PDIA4; PDIA4	P13667; A0A499	PDIA4	HUM,	Unmodified	1700800	1584400	2376200	0	0	0	0	0	0
YKVTPPAVTGSPEFER	MGST2	Q99735	MGST2	HUM	Unmodified	1016700	866240	1179500	150490	109210	0	0	0	0
YLAADKDGNVTCER	FSCN1	Q16658	FSCN1	HUM,	Unmodified	778500	798060	1290600	0	0	0	9899.8	0	0
YLAEFATGNDR	YWHAE; YWHAE	P62258; K7EM20	1433E	HUM,	Unmodified	1758700	1493000	1038100	19912	0	0	0	0	0
YLAEFATGNDR	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	Deamidation (N)	2556600	2502600	2232100	0	0	41761	0	0	0
YLAEFATGNDRK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUM,	Unmodified	8106700	4655500	8980700	75134	92437	0	70596	0	0
YLAEFATGNDRK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	Deamidation (N)	12395000	12079000	14882000	230920	228300	259620	0	0	0
YLAEFATGNDRKEAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	2 Deamidation (N)	65600000	63910000	55824000	88474	26978	67270	0	0	0
YLAEFATGNDRKEAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	Unmodified	7702700	6575300	5678700	0	0	0	0	0	0
YLAEFATGNDRKEAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	Deamidation (N)	27078000	17661000	26479000	0	0	0	0	0	0
YLAEFATGNDRKEAAENSLVAYK	YWHAE; YWHAE	P62258; K7EM20	1433E	HUMA	Methyl (KR);2 Dea	450790	518850	526300	0	0	0	0	0	0
YLAEKYEWDVAEAR	EEF2	P13639	EF2	HUMAN	Unmodified	18682000	17868000	16237000	116950	55431	39407	0	0	0
YLAEKYEWDVAEARK	EEF2	P13639	EF2	HUMAN	Unmodified	1501300	0	1147600	0	0	0	0	0	0
YLAEVAAGDDK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z	HUM	Unmodified	54299000	9940200	63149000	159250	146200	145660	0	0	0
YLAEVAAGDDKK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z	HUM	Unmodified	44404000	44317000	32390000	276760	384510	282750	0	0	0
YLAEVAAGDDKKGIVDQSQQAYQEAFEISK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z	HUM	Unmodified	3537500	0	3755800	0	0	0	0	0	0
YLAEVAAGDDKKGIVDQSQQAYQEAFEISKK	YWHAZ; YWHAZ; Y	P63104; B7Z2E6;	1433Z	HUM	Unmodified	12267000	9767700	10429000	0	0	0	0	0	0
YLAEVACGDDR	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUM	Unmodified	3131200	2884100	3193100	0	0	0	0	0	0
YLAEVACGDDRK	YWHAQ; YWHAQ	P27348; E9PG15	1433T	HUM	Unmodified	1441200	1101000	1235700	0	0	0	0	0	0
YLAEVATGDDK	SFN	P31947	1433S	HUM	Unmodified	1152000	1297200	1456500	0	0	0	0	0	0
YLAEVATGDDKKR	SFN	P31947	1433S	HUM	Unmodified	8481400	8317700	6410000	0	0	0	0	0	0
YLAEVATGEK	YWHAG	P61981	1433G	HUM	Unmodified	4909800	3495200	4673100	0	47896	0	0	0	0
YLAEVATGEKR	YWHAG	P61981	1433G	HUM	Unmodified	8253100	7737100	7047400	337500	59837	281370	0	0	0
YLAFTEEK	ARID1A; ARID1A; A	O14497; A0A087	ARI1A	HUM	Unmodified	890660	771480	816850	0	0	0	0	0	0
YLALLETLTR	SLC12A9	Q9BXP2	S12A9	HUM	Unmodified	251530	258760	259150	0	0	0	0	0	0
YLALQDLMLLSQYSPSR	NDC1	Q9BTX1	NDC1	HUMA	Oxidation (M)	254200	0	276660	0	0	0	0	0	0
YLDEDTIYHLQPSGR	MAT2A	P31153	METK2	HUM	Unmodified	4256700	5769400	5930700	61900	50762	28534	0	0	23991
YLDQMEDLYEDFHIVK	GET3	O43681	GET3	HUMA	Oxidation (M)	724530	696110	0	0	0	0	0	0	0
YLDVSILGK	METTL3	Q86U44	MTA70	HUM	Unmodified	413040	458330	1011900	35250	63750	64004	0	0	0
YLEAGAAGLR	HSPBP1; HSPBP1; H	Q9NZL4; K7EMV	HPBP1	HUM	Unmodified	1215700	858110	731430	0	0	0	22887	0	0
YLEAMAVIEHMQEKLLEVENR	AXDND1; AXDND1	Q5T1B0; B1AM3	AXDN1	HUM	Oxidation (M);Dea	0	0	972040	0	0	0	0	0	0
YLEAVEK	RO60	P10155	RO60	HUMA	Unmodified	974480	0	1155200	0	0	0	0	0	0
YLECSALTQR	RAC2; RAC3; RAC1;	P15153; P60763;	RAC2	HUMA	Unmodified	1504300	1820400	1623000	0	0	0	57225	33013	0
YLEDGGLER	EPHX1	P07099	HYEP	HUMA	Unmodified	1357300	4404300	2766400	0	255930	129930	0	0	0
YLEEERPFAIEQVTGMLLAK	HSPA4L; HSPA4L	O95757; E9PDE8	HS74L	HUM,	Oxidation (M)	3319000	2019800	2197800	0	0	0	0	0	0
YLEEIATQMR	PFKP; PFKP; PFKP;	Q01813; A0A7I2	PFKAP	HUM	Oxidation (M)	977810	719630	1268300	0	0	0	0	0	0
YLEEQKTENGKDKEQK	THRAP3; THRAP3	Q9Y2W1; A0A3B	TR150	HUM,	Deamidation (N)	274880	251800	502120	91772	0	0	0	0	0
YLEESNFVHR	SYK	P43405	KSYK	HUM,	Unmodified	540190	327800	0	0	0	0	0	0	0
YLEKEEK	SPTLC1	O15269	SPTC1	HUM,	Unmodified	219830	397450	293730	36775	39643	36290	0	0	0
YLEKPITMLL	DLAT; DLAT; DLAT	P10515; A0A7P0	ODP2	HUMA	Oxidation (M)	2564700	2857500	2464000	44697	46775	31004	16705	16155	0
YLEKPMEIAR	STAT3; STAT3; STA	P40763; A0A7I2	STAT3	HUM,	Oxidation (M)	354290	354910	326510	0	0	0	0	0	0
YLENGKETLQR	HLA-A; HLA-H; HLA	P04439; P01893;	HLAA	HUM,	Deamidation (N)	7204600	7827900	6065700	324720	180900	191680	0	0	12041
YLENQTFR	KIF2A; KIF2A; KIF2,	O00139; A0A6Q8	KIF2A	HUM,	Unmodified	536810	475620	570150	243100	0	150300	78773	0	11968
YLENYDAIR	UCHL3; UCHL3; UC	P15374; Q5TBK7;	UCHL3	HUM	Unmodified	1841500	0	0	0	51668	0	0	0	0
YLESAGAR	GGH; GGH; GGH; GI	Q92820; A0A7I2	GGH	HUMA	Unmodified	15221000	13098000	12203000	0	0	51284	0	0	0
YLESEEYQER	MRPS18B; MRPS18	Q9Y676; A0A0G2	RT18B	HUM	Unmodified	788170	746380	754190	22540	0	0	0	0	0
YLESLGEEQR	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	1386600	0	0	0	0	0	0	0	0
YLESLGEEQRK	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	1726100	1544800	1357100	48818	67754	52676	0	0	0
YLESLGEEQRKEAER	NUCB1; NUCB1; NU	Q02818; H7BZI1;	NUCB1	HUM	Unmodified	4924200	3145900	4187700	192930	104160	89536	0	0	0
YLFTGLK	USP14; USP14	P54578; A6NJA2	UBP14	HUM	Unmodified	1845700	1483800	1519300	0	0	0	0	0	0
YLFTLIR	NUP107	P57740	NU107	HUM	Unmodified	0	541230	834720	0	0	0	0	0	0
YLFVDR	MYH10; MYH10	P35580; E7ERA5	MYH10	HUM	Unmodified	948560	1977600	1995000	140020	136040	148510	0	0	0
YLGGSMDLSTFDFR	MBD3	O95983	MBD3	HUM,	Oxidation (M)	1451300	1240400	1536600	0	0	0	0	0	0
YLGINSDGLVVGR	FRG1; FRG1	Q14331; E9PRR7	FRG1	HUMA	Deamidation (N)	0	549550	0	0	0	0	0	0	0
YLGLLENLR	MYO1C; MYO1C	O00159; F5H6E2	MYO1C	HUM	Unmodified	1200700	853260	946440	0	0	0	0	0	0
YLGLLENVR	MYO1D; MYO1G; M	O94832; B0I1T2;	MYO1D	HUM	Unmodified	1747000	1162900	1685600	0	0	0	0	0	0
YLGQDYEQLR	CAPN1; CAPN1; CA	P07384; E9PLX0;	CAN1	HUMA	Unmodified	2879100	2421100	2956800	105710	0	0	0	0	0
YLHDESGLNR	SEPTIN2; SEPTIN2;	Q15019; C9J938;	SEPT2	HUM,	Unmodified	479940	741410	893680	0	0	0	0	0	0
YLHENLPIPQRNTN	ALDH18A1	P54886	P5CS	HUMA	Deamidation (N)	1111100	1294700	1143900	0	0	0	0	0	0
YLIATSEQPIAALHR	SARS1; SARS1	P49591; Q5T5C7	SYSC	HUMA	Unmodified	3398700	0	1363700	0	0	0	0	0	0
YLIFPNPVCLEPGISYK	LAMB2	P55268	LAMB2	HUM,	Unmodified	172300	147000	93909	0	0	0	0	0	0
YLKSEPIPESNDGPVK	PDIA3	P30101	PDIA3	HUM,	Unmodified	516270	1256200	0	59119	72393	37987	0	0	0
YLLEQDFPGMR	EHD4; EHD3	Q9H223; Q9NZN3	EHD4	HUMA	Oxidation (M)	1564600	943360	926520	32262	31592	45744	0	0	0
YLLLAGAPR	ITGA3; ITGA3	P26006; D6R9X8	ITA3	HUMA	Unmodified	1665200	1669300	2469800	122380	72683	127890	0	0	0

YLLTMDKLWR	UBA2; UBA2; UBA2	Q9UBT2; K7EPL5	SAE2	HUMA	Oxidation (M)	581220	997870	938740	0	0	0	0	0	0
YLMEEDEDAYK	RPL5; RPL5	P46777; A0A2R8Y	RL5	HUMAN	Oxidation (M)	1598600	1607400	1394800	119030	0	58458	0	0	0
YLMEEDEDAYKK	RPL5; RPL5	P46777; A0A2R8Y	RL5	HUMAN	Oxidation (M)	10274000	10263000	12110000	361230	626380	286560	0	0	0
YLMEEDEDAYKKQFSQYIK	RPL5; RPL5	P46777; A0A2R8Y	RL5	HUMAN	Oxidation (M)	8710700	8136800	9681600	0	31621	0	0	0	0
YLNFFTK	PCNA	P12004	PCNA	HUMA	Unmodified	57325000	54650000	65569000	890840	714820	925600	42031	58740	7969.5
YLNFFTK	PCNA	P12004	PCNA	HUMA	Deamidation (N)	18222000	18043000	18700000	188080	246690	245150	0	0	10525
YLNFVKGVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P0T	ENPL	HUMA	Methyl (KR)	8041400	3685300	10736000	0	0	0	0	0	0
YLNFVKGVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P0T	ENPL	HUMA	Methyl (KR);Deam	3522900	2674800	3637200	0	0	0	0	0	0
YLNFVKGVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P0T	ENPL	HUMA	Deamidation (N)	3434300	446090	666660	0	0	0	0	0	0
YLNFVKGVVDSDDLPLNVSR	HSP90B1; HSP90B1;	P14625; A0A7P0T	ENPL	HUMA	Unmodified	3679800	298130	838690	0	0	0	0	0	0
YLNIFGESQPNPK	SLC25A13; SLC25A1	Q9UJS0; R4GN64	CMC2	HUM	Unmodified	1921200	2084400	1620700	61977	53128	43234	0	0	0
YLNIFGESQPNPK	SLC25A13; SLC25A1	Q9UJS0; R4GN64	CMC2	HUM	Deamidation (N)	17548000	10018000	10444000	0	0	83096	0	0	0
YLNTNPVGGLLEYAR	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD	HUM	Unmodified	2450500	2177300	1916400	0	0	0	0	0	0
YLNTNPVGGLLEYAR	ADAR; ADAR; ADAI	P55265; A0A3B3I	DSRAD	HUM	Deamidation (N)	99862	365280	916860	0	0	0	0	0	0
YLPEFR	UROD; UROD; UROI	P06132; A0A494E	DCUP	HUM	Unmodified	1576200	1281300	1729200	123950	130110	89718	0	0	0
YLPEFRETR	UROD; UROD; UROI	P06132; A0A494E	DCUP	HUM	Unmodified	708130	888550	810690	398050	618140	631150	0	0	0
YLPELMAEK	KHDRBS2; KHDRBS	Q5VWX1; Q0766	KHDR2	HUM	Oxidation (M)	3732100	3658400	2988400	145640	98618	88920	0	0	0
YLPRPANPDEIGNFIDENLK	CDH1	P12830	CADH1	HUM	Unmodified	1282300	1154100	1695400	0	0	0	0	0	0
YLPRPANPDEIGNFIDENLK	CDH1	P12830	CADH1	HUM	Deamidation (N)	572280	0	817720	0	0	0	0	0	0
YLQEEVNINRK	SEPTIN9; SEPTIN9;	Q9UHD8; K7EIE4	SEPT9	HUM	Unmodified	791190	804260	553260	0	57038	0	0	0	0
YLQLAEELIRPER	MCM6	Q14566	MCM6	HUM	Unmodified	9062700	4544300	4061500	15283	0	0	0	11801	0
YLQQELPVR	BCKDK; BCKDK; BC	O14874; H3BTL2	BCKD	HUM	Unmodified	1205700	2126300	1082100	0	0	0	0	0	0
YLQQLAEKPLETR	AMPD2; AMPD2; AI	Q01433; H0YF16	AMPD2	HUM	Unmodified	0	817310	1189700	0	0	0	0	0	0
YLQTVQYGVHGNFPR	HLTF; HLTF	Q14527; A0A0C4	HLTF	HUM	Unmodified	970000	0	1199100	0	0	0	0	0	0
YLRAEPEDHYFLLTEPPLNTPENR	ACTR3; ACTR3; AC	P61158; B4DXW1	ARP3	HUM	Unmodified	0	2161700	0	0	0	0	0	0	0
YLRPPNTSLFVR	SRSF10; SRSF10; SR	O75494; R4GMP8	SRS10	HUM	Deamidation (N)	5924500	5894200	5429800	427520	433570	429740	0	0	0
YLSAPER	NKX2-6; NKX3-1; NI	A6NCS4; Q99801	NKX26	HUM	Unmodified	1213900	0	915320	0	0	0	0	6978	0
YLSEVASGDNK	YWHAB	P31946	1433B	HUM	Unmodified	4984100	3251500	5605000	93194	0	87030	0	0	0
YLSEVASGDNK	YWHAB	P31946	1433B	HUM	Deamidation (N)	503730	467140	447730	0	0	0	0	0	0
YLSEVASGDNKQTTVSNSQQAYQEAFEISKK	YWHAB	P31946	1433B	HUM	Deamidation (N)	2196800	2945100	3781800	0	0	0	0	0	0
YLSEVASGDNKQTTVSNSQQAYQEAFEISKK	YWHAB	P31946	1433B	HUM	2 Deamidation (N)	0	3060300	1340800	0	0	0	0	0	0
YLSFTPPEKDGFPSGTPALNAK	PAK2	Q13177	PAK2	HUMA	Unmodified	607680	559030	700660	0	0	0	0	0	0
YLSFTPPEKDGFPSGTPALNAK	PAK2	Q13177	PAK2	HUMA	Deamidation (N)	1749300	672220	2033700	0	0	0	0	0	0
YLSNAYAR	CLIC1	O00299	CLIC1	HUM	Deamidation (N)	2364600	2595200	2489300	0	0	159200	0	0	0
YLSNAYAR	CLIC1	O00299	CLIC1	HUM	Unmodified	2307800	2253600	1902700	57092	47978	72455	0	0	0
YLSQLKDAHR	COPE; COPE	O14579; M0QXB4	COPE	HUMA	Unmodified	1316000	1015400	426640	0	0	0	0	0	0
YLTNAYSR	CLIC4	Q9Y696	CLIC4	HUM	Unmodified	1688100	590630	0	0	0	36795	0	0	0
YLTTAVITNKDVR	EIF3E; EIF3E; EIF3E	P60228; B3KW56	EIF3E	HUMA	Unmodified	1044900	1023400	228000	27726	0	0	0	19385	0
YLTVAAIFR	TUBB2A; TUBB8B; `	Q13885; A6NNZ2	TBB2A	HUM	Unmodified	15566000	10907000	12875000	130580	24955	69993	55821	45377	0
YLTVAAVFR	TUBB4A; TUBB; TU	P04350; P07437; I	TBB4A	HUM	Unmodified	105100000	84742000	88536000	1723700	1453600	1307600	458180	337820	37552
YLTVATVFR	TUBB6; TUBB3; N/A	Q9BUF5; Q13509	TBB6	HUMA	Unmodified	18144000	17657000	20822000	22355	107610	0	0	26072	27196
YLTWASR	IGHA2; IGHA1; IGH/	P01877; P01876; ,	IGHA2	HUM	Unmodified	2802300	3343800	3211000	106780	32586	92379	0	0	0
YLVEFR	ADRM1; ADRM1; AI	Q16186; A0A087	ADRM1	HUM	Unmodified	1256000	1465200	1107000	0	29123	38705	0	0	0
YLVLDEADR	DDX5; DDX17; DDX	P17844; Q92841;	DDX5	HUM	Unmodified	1735700	1003800	1076900	29123	27030	21178	0	0	0
YLVQDGAQVEAK	ANK3	Q12955	ANK3	HUM	Unmodified	0	0	0	0	0	0	0	0	0
YLVQDTDEFILPTGANK	TIMM23B; TIMM23	Q5SRD1; O14925	TI23B	HUM	Unmodified	871240	739390	652520	0	0	11477	0	0	0
YLVQDTDEFILPTGANKTR	TIMM23	O14925	TIM23	HUM	Deamidation (N)	977540	862730	1372600	0	0	0	0	0	0
YLYAMR	HK1; HK1	P19367; B1AR62	HXK1	HUMA	Oxidation (M)	920670	722400	461980	0	0	0	0	0	0
YLYHGNTNPELAFESAK	NUP205	Q92621	NU205	HUM	Deamidation (N)	371210	513050	385590	0	39434	38135	0	0	0
YLYPNIDKDHAFGK	STAT1; STAT1; STA	P42224; A0A6698	STAT1	HUM	Unmodified	1447600	705280	629450	149770	0	0	0	0	0
YLYYTGR	PSMD3	O43242	PSMD3	HUM	Unmodified	1800700	1083300	1342700	0	0	62585	0	0	0
YMACCLLYR	TUBA1A; TUBA4A;	Q71U36; P68366;	TBA1A	HUM	Oxidation (M)	5072400	4634200	4568800	56379	69310	34334	0	0	0
YMACCLLYRGDVVPK	TUBA1A; TUBA4A;	Q71U36; P68366;	TBA1A	HUM	Oxidation (M)	0	1189900	0	0	0	0	0	0	0
YMEVSGNLR	SF3A3	Q12874	SF3A3	HUM	Oxidation (M)	1767400	137860	1554800	0	16972	0	0	0	0
YMEVSGNLR	SF3A3	Q12874	SF3A3	HUM	Oxidation (M);Deai	627900	0	612420	19117	0	0	0	0	0
YMIGVTYGGDDIPLSPVR	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Oxidation (M)	922470	987050	844160	13743	0	0	16424	0	0
YMMIVDPAISSSGPAGSYRPYDEGLR	GAA	P10253	LYAG	HUM	2 Oxidation (M)	3748000	3633700	4292900	65799	0	36773	0	0	0
YMMIVDPAISSSGPAGSYRPYDEGLRR	GAA	P10253	LYAG	HUM	2 Oxidation (M)	16357000	13989000	18618000	208210	0	0	94798	66156	0
YMNSGPVVAMVWEGLNVVK	NME2P1; NME2; NN	O60361; P22392;	NDK8	HUM	2 Oxidation (M);De	3331000	1388700	4788200	0	0	0	0	0	0
YMPQNPCIATK	RBBP4	Q09028	RBBP4	HUM	Oxidation (M)	6216600	4190200	4845400	230020	0	0	37894	0	0
YMPQNPHIIATK	RBBP7; RBBP7; RBI	Q16576; E9PC52;	RBBP7	HUM	Oxidation (M)	4308400	3659700	3540100	0	176570	0	0	0	50115
YMREFGFVPERPVVVDDVR	OPLAH	O14841	OPLA	HUM	Oxidation (M)	1971600	899750	0	0	0	0	0	0	0
YMSVNQAAQQLLEIVQNQR	DPH5	Q9H2P9	DPH5	HUMA	Oxidation (M)	0	136760	228930	0	0	0	0	0	0
YMTDGMLLR	DHX8; DHX15; DHX	Q14562; O43143;	DHX8	HUMA	2 Oxidation (M)	4034500	4916900	5483700	115630	37930	124210	0	0	0
YMVADKFTELQK	PPP2R1A; PPP2R1A;	P30153; B3KQV6	2AAA	HUMA	Oxidation (M)	8808700	11634000	8008600	0	0	0	0	0	0
YMVALQIAR	SUPT6H	Q7KZ85	SPT6H	HUM	Oxidation (M)	0	0	695970	0	0	0	10443	0	0
YNADEAR	EIF1AY; EIF1AX; EI	O14602; P47813;	IF1AY	HUM	Unmodified	798110	826380	1090600	0	80125	68522	0	0	0
YNALLAVQK	ATP6V1H; ATP6V1F	Q9UI12; G3V126	VATH	HUM	Unmodified	1091700	748300	1264000	0	0	0	0	0	0
YNAPTSHVTPSVK	SPAG9; SPAG9	O60271; A0A087	JIP4	HUMA	Unmodified	5332500	6748500	6353200	923740	1432900	1210200	210140	207060	0
YNAQCQETIR	MDK; MDK; MDK	P21741; E9PLM6;	MK	HUMA	Deamidation (N)	449340	461330	263420	0	0	0	0	0	0
YNAQCQETIR	MDK; MDK; MDK	P21741; E9PLM6;	MK	HUMA	Unmodified	0	0	2158600	60449	0	156820	0	0	0
YNDYKLDFR	SRRT; SRRT; SRRT	Q9BXP5; A0A286	SRRT	HUM	Unmodified	249790	389920	324630	0	0	38098	0	0	0
YNEQHVPGSPFTAR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Unmodified	15686000	11340000	12007000	492570	455600	490380	549260	493310	491950
YNEQHVPGSPFTAR	FLNA; FLNA	P21333; Q60FE5	FLNA	HUM	Deamidation (N)	6744300	7074200	6425800	0	45661	283910	0	0	0
YNFFTGCPK	CCT7	Q99832	TCPH	HUM	Unmodified	478330	652880	506080	28445	24525	39350	0	0	0
YNFPNPNPFVEDDMDKNEIASVAYR	EIF3D	O15371	EIF3D	HUM	Oxidation (M)	1568300	2301600	2092200	0	0	0	0	0	0
YNFPVEVEVPMER	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	10821000	17586000	14015000	63174	51186	73896	0	0	0
YNIEKDIAAYIK	DYNLL2	Q96FJ2	DYL2	HUM	Unmodified	1796500	349000	1251100	0	0	0	0	0	0
YNILGTNTIMDK	HNRNPU; HNRNPU;	Q00839; A0A1W2	HNRPU	HUM	Oxidation (M);Deai	0	2622500	3382900	22746	0	0	0	0	0
YNIMLVR	CCT8; CCT8	P50990; H7C4C8	TCPQ	HUM	Oxidation (M)	0	685600	0	0	0	0	0	0	0
YNIPHGPVVGSTR	EMD	P50402	EMD	HUMA	Unmodified	15274000	16512000	14192000	877950	928440	896870	49357	35399	107220
YNPENLATLER	EIF3K; EIF3K; EIF3K	Q9UBQ5; K7ES31	EIF3K	HUM	Unmodified	1798000	1023200	1724500	0	0	0	0	0	0
YNPTWHCIVGR	DYNLL2; DYNLL1	Q96FJ2; P63167	DYL2	HUM	Unmodified	2305500	2060300	3141800	0	27515	0	0	0	0
YNQLLR	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Unmodified	154850000	197920000	190710000	1010100	1118900	1040300	62747	64513	59275
YNQLLR	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Deamidation (N)	17890000	19585000	15763000	126010	181340	186450	0	0	0
YNQLLRIEEELGSK	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Unmodified	90087000	95241000	91464000	0	0	0	0	0	0
YNQLLRIEEELGSK	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Deamidation (N)	5996800	6215600	8228200	0	0	0	0	0	0
YNQLLRIEEELGSKAK	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Deamidation (N)	14203000	13920000	10821000	0	0	0	23700	0	0
YNQLLRIEEELGSKAK	ENO1; ENO1	P06733; A0A2R8Y	ENOA	HUM	Unmodified	9230200	7531600	7080800	0	0	0	0	0	0
YNQLMRIEEALGDKAIFAGR	ENO3	P13929	ENOB	HUM	Oxidation (M)	917850	962930	1167100	0	0	0	0	0	0
YNQLMRIEEELGDEAR	ENO2; ENO2	P09104; F5H0C8	ENOG	HUM	Oxidation (M)	43291000	31566000	38872000	0	0	0	0	0	0
YNQLMRIEEELGDEAR	ENO2; ENO2	P09104; F5H0C8	ENOG	HUM	Oxidation (M);Deai	12591000	16739000	14122000	0	0	0	0	0	0
YNSQLLSFVR	TFRC; TFRC; TFRC	P02786; H7C3V5;	TFR1	HUMA	Unmodified	0	0	0	0	0	0	0	0	0
YNTAADALAALVDAAASAPQMDVSK	NCOR1; NCOR1; NC	O75376; E7EVK1	NCOR1	HUM	Unmodified	155530	82326	124600	0	0	0	0	0	0
YNVLGAETVLNQMR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ4	HNRL2	HUM	Oxidation (M);Deai	2849900	4485100	2516300	79965	63355	10077	0	0	0
YNVLGAETVLNQMR	HNRNPUL2; HNRNP	Q1KMD3; H3BQ4	HNRL2	HUM	Oxidation (M)	11373000	9095700	8867500	384780	451700	360920	30831	25789	44546
YNVPFLTFINK	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM	HUM	Unmodified	746530	665820	596430	0	0	0	0	0	0
YNVPFLTFINKLDR	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM	HUM	Deamidation (N)	2139300	1379900	1406500	0	0	0	0	0	0
YNVPFLTFINKLDR	GFM1; GFM1; GFM1	Q96RP9; C9IZ01;	EFGM	HUM	Unmodified	2345000	1835100	1677100	0	0	0	0	0	0
YNVYGYTGQGVFSNVVR	PRPF4B; PRPF4B	Q13523; H0YDJ3	PRP4B	HUM	Unmodified	1094400	1104400	0	0	0	0	0	0	0
YNYIEGTK	CNDP2	Q96KP4	CNDP2	HUM	Unmodified	1049700	874920	772690	8130.2	0	0	0	0	0
YPASTVQILGAEK	NOP56; NOP56; NOP	O00567; A0A494	NOP56	HUM	Unmodified	3317000	1628100	2585200	31640	0	30026	0	0	0
YPDQWIVPGGGMEPEEEPGGAAVR	NUDT4B; NUDT4	A0A024RBG1; Q	NUD4B	HUM	Oxidation (M)	3154100	1955200	1030100	0	0	0	0	0	0
YPEDKITPENLPQILLQLK	MATR3; MATR3; M	P43243; D6REM6	MATR3	HUM	Unmodified	1812000	1279700	1546000	0	0	0	0	0	0
YPEDKITPENLPQILLQLKR	MATR3; MATR3; M	P43243; D6REM6	MATR3	HUM	Unmodified	4487000	4260700	4478000	0	0	0	0	0	0
YPEEFALR	PFKFB2; PFKFB1; PI	O60825; P16118;	F262	HUMA	Unmodified	2013000	1814700	2559100	0	0	0	0	0	0
YPEEFALRDQEK	PFKFB2	O60825	F262	HUMA	Unmodified	7636400	0	0	0	0	0	0	0	0
YPEETLSLMTK	PRKDC	P78527	PRKDC	HUM	Oxidation (M)	2367200	2459700	2318500	0	45986	26036	27521	0	0
YPENFLLR	PPP1CA; PPP1CB; P	P62136; P62140; I	PP1A	HUMA	Unmodified	462840	587720	245350	0	0	14270	13435	0	0
YPEVGDLR	TMEM43	Q9BTV4	TMM43	HUM	Unmodified	1699700	1476900	808140	0	11790	0	0	0	0
YPGPQAEGDSEGLSQGLVDREK	CHGA	P10645	CMGA	HUM	Unmodified	0	2678500	1819500	0	0	0	0	0	0
YPGSTFMDHVLR	ACLY	P53396	ACLY	HUM	Oxidation (M)	845100	732010	1164700	120810	0	114040	0	0	0
YPHLGQKPGGSDFLR	ARPP19; ARPP19; A	P56211; H3BMD8	ARP19	HUM	Unmodified	3624600	2121700	1505600	0	0	0	0	0	0
YPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133; I	ACTC	HUMA	Oxidation (M)	141840000	124120000	119920000	424790	360900	463310	114720	28188	0
YPIEHGIITNWDDMEK	ACTC1; ACTA1; AC	P68032; P68133; I	ACTC	HUMA	Oxidation (M);Deai	50954000	43142000	47297000	53226	246330	83182	0	0	0
YPIEHGIITNWDDMEKIWHHTFYNELR	ACTC1; ACTA1; AC	P68032; P68133; ,	ACTC	HUMA	Oxidation (M)	16742000	15665000	14797000	0	0	0	0	0	0
YPIEHGIITNWDDMEKIWHHTFYNELR	ACTC1; ACTA1; AC	P68032; P68133; ,	ACTC	HUMA	Oxidation (M);Deai	2219200	0	2368900	0	0	0	0	0	0
YPIVGYTAR	NENF	Q9UMX5	NENF	HUMA	Unmodified	6368800	6852500	5966600	59447	66800	69916	0	7926.6	0
YPLAAAAERPPR	IRF2BP2	Q7Z5L9	I2BP2	HUMA	Unmodified	1202600	1586100	1076200	52760	37109	51512	0	0	0
YPLFEGQETGKKETIEE	GARS1; GARS1; GA	P41250; A0A6Q8	GARS	HUMA	Unmodified	2711700	2838800	2164000	199160	0	207300	0	0	0
YPMIPPAQLFQLQAR	BTBD17	A6NE02	BTBD8	HUM	Oxidation (M)	1545200	1866700	1101900	0	0	0	0	0	0
YPPPTELLDLQPLPVSALR	SNRNP200; SNRNP2	O75643; A0A494	U520	HUMA	Unmodified	539670	426320	455590	0	0	0	0	0	0
YPQFISR	ABAT; ABAT; ABAT	P80404; H3BRN4	GABT	HUM	Unmodified	835090	715170	0	0	0	0	0	0	0
YPQLLPGIR	AHCY	P23526	SAHH	HUM	Unmodified	17116000	19286000	20962000	106680	59267	206260	27246	35060	16041
YPSHSFIGEESVAAGEK	IMPA1; IMPA1; IMP	P29218; E5RG94;	IMPA1	HUM	Unmodified	2029800	2045800	1910000	0	0	0	0	0	0
YPSLSLHGIEGAFSGSGAK	CNDP2	Q96KP4	CNDP2	HUM	Unmodified	486180	425330	563990	0	0	0	0	0	0
YPSLWR	SMARCB1; SMARCI	Q12824; G5E975;	SNF5	HUMA	Unmodified	614310	702610	628020	0	0	0	0	0	0
YPSPFFVFGEK	DHX9	Q08211	DHX9	HUMA	Unmodified	4426000	2881500	4098600	0	0	0	10078	0	0
YPSPPMGSVSAPNLPTAEDNLEYVR	CRKL	P46109	CRKL	HUM	Oxidation (M)	3178300	3410400	3263800	32422	0	0	0	0	0
YPVNSVNILK	TCP1; TCP1; TCP1	P17987; E7EQR6;	TCPA	HUMA	Deamidation (N)	8939800	5993700	8116400	229590	348420	214400	19522	14980	12811
YPVNSVNILK	TCP1; TCP1; TCP1	P17987; E7EQR6;	TCPA	HUMA	Unmodified	0	4048800	0	0	0	0	0	0	0
YPYWPHQPIENL	ATP5PD	O75947	ATP5H	HUM	Unmodified	1692400	1490000	1146600	0	0	0	0	0	0

YQADITDLLK	MTA1; MTA1	Q13330; E7ESY4	MTA1	HUM	Unmodified	1074000	1151700	901560	0	12270	12755	0	0	0
YQAEIPDR	MTA2	O94776	MTA2	HUM	Unmodified	0	0	274110	0	0	0	0	0	0
YQAVTATLEEK	RPL13AP3; RPL13A;	Q6NVV1; P40429	R13P3	HUM	Unmodified	1299300	1115700	1174200	0	0	0	0	0	0
YQDAETLYKEILTR	KLC2; KLC2	Q9H0B6; A8MZ8	KLC2	HUM	Unmodified	1526300	777080	741090	0	0	0	0	0	0
YQDILVFR	SRM; SRM	P19623; K7EKM4	SPEE	HUM	Unmodified	5125100	6750900	5743100	117840	0	118910	0	0	14296
YQDLGAYSSAR	NDUFB10; NDUFB1	O96000; H3BPJ9	NDUBA	HUM	Unmodified	1297000	1146200	1112200	0	0	0	0	0	0
YQDTPGVK	ACLY	P53396	ACLY	HUM	Unmodified	0	8324400	0	856220	670520	781020	0	0	0
YQEALAK	SOD2; SOD2; SOD2;	P04179; G8JLJ2;	SODM	HUM	Unmodified	2951300	2968800	2536000	480200	364330	0	0	17423	0
YQEEFEHFQQELDK	LMAN1	P49257	LMAN1	HUM	Unmodified	599770	502980	417140	0	0	0	0	0	0
YQEGGVESAFHK	CAPG; CAPG; CAPG	P40121; E7ENU9;	CAPG	HUM	Unmodified	2129400	1290100	1501100	0	0	0	0	0	0
YQEIEEDRKKAELEGVAVTAPR	CCDC9; CCDC9; CC	Q9Y3X0; A0A2R8	CCDC9	HUM	Unmodified	1306600	1227100	1461700	0	0	0	0	0	0
YQELPNSGPPHDRR	EIF2AK2; EIF2AK2;	P19525; A0A7P0	E2AK2	HUM	Deamidation (N)	321060	263120	557890	0	0	0	0	0	0
YQETFNVIER	ECH1; ECH1; ECH1	Q13011; M0QZW	ECH1	HUM	Unmodified	2780900	2843100	3389500	0	0	0	0	0	0
YQEVTNNLEFAK	CAPRIN1; CAPRIN1	Q14444; G3V153;	CAPR1	HUM	Deamidation (N)	557570	0	0	0	87733	47921	0	27698	0
YQEVTNNLEFAKELQR	CAPRIN1; CAPRIN1	Q14444; G3V153;	CAPR1	HUM	Deamidation (N)	566800	421880	451790	0	0	0	0	0	0
YQFTPAFLR	UNC119B; UNC119;	A6NIH7; Q13432;	U119B	HUM	Unmodified	5655300	4149100	5618100	42909	0	0	0	11063	0
YQGVNLYIK	PABPC4; PABPC4; P	Q13310; B1ANR0	PABP4	HUM	Unmodified	863660	1466500	1491000	19057	26858	28739	0	0	0
YQGVNLYVK	PABPC1; PABPC1L;	P11940; Q4VXU2	PABP1	HUM	Unmodified	7478800	6312900	7330700	380590	398920	357690	0	25507	0
YQGVNLYVK	PABPC1; PABPC1L;	P11940; Q4VXU2	PABP1	HUM	Deamidation (N)	1212900	498260	650370	47125	0	0	0	0	0
YQILPLHSQIPR	DHX9	Q08211	DHX9	HUM	Unmodified	5165600	5876100	5985200	0	21971	0	0	0	0
YQILPLHSQIPREEQR	DHX9	Q08211	DHX9	HUM	Unmodified	5518800	3087500	0	0	66914	48617	0	0	0
YQILPLHSQIPREEQRK	DHX9	Q08211	DHX9	HUM	Unmodified	1368700	1097200	0	0	0	0	0	0	0
YQIPLSADQLFTQSVLDK	HELZ; HELZ; HELZ;	P42694; J3QRR8;	HELZ	HUM	Unmodified	0	162200	202150	0	0	0	0	0	0
YQKSTELLIR	H3-2; H3-4; H3-3A;	Q5TEC6; Q16695	H3PS2	HUM	Unmodified	18563000	18480000	14583000	1514700	1199500	1419700	79123	93028	69746
YQKSTELLIR	H3-2; H3-4; H3-3A;	Q5TEC6; Q16695	H3PS2	HUM	Methyl (KR)	1939700	1731000	1986800	0	0	0	0	0	0
YQLDKDGVVLFK	P4HB; P4HB; P4HB;	P07237; A0A7P0	PDIA1	HUM	Unmodified	18152000	15893000	14615000	257630	80599	202780	0	0	0
YQLDPTASISAK	VDAC2; VDAC2	P45880; A0A0A0	VDAC2	HUM	Unmodified	59997000	44327000	44678000	1484200	1506400	1452800	72946	58746	93797
YQLEIPENFTTR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUM	Unmodified	3533300	5503900	3291200	16758	0	21709	0	0	0
YQLEIPENFTTR	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUM	Deamidation (N)	0	1927300	0	0	0	0	0	0	0
YQLNLPPYPDTECVYR	NAXE; NAXE	Q8NCW5; A0A7P	NNRE	HUM	Unmodified	359680	431740	317870	0	0	0	0	0	0
YQPLASTASDNDFVTPEPR	NCAPD2	Q15021	CND1	HUM	Deamidation (N)	621460	519660	543570	19888	0	0	0	0	0
YQQAGLPLIVLAGK	ACO1	P21399	ACOC	HUM	Unmodified	2597700	2208900	2555500	0	0	0	0	0	0
YQQEVDRIK	KIF5B; KIF5C; KIF5	P33176; O60282;	KIN	HUM	Unmodified	584300	453760	794410	0	0	0	0	0	0
YQQFKDFQR	DDX39B; DDX39A; I	Q13838; O00148;	DX39B	HUM	Unmodified	1688800	1857700	1465200	0	0	0	0	0	0
YQQLFEDIR	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4	HUM	Unmodified	1327900	0	1668000	0	0	0	0	0	0
YQQLFEDIRGQSDIAITK	MCM4; MCM4; MCM	P33991; A0A3B3	MCM4	HUM	Unmodified	410600	164910	235520	0	0	0	0	0	0
YQQPFEDFR	PLCG1; PLCG1; PLC	P19174; V9GY71;	PLCG1	HUM	Unmodified	807620	1567900	764130	0	0	21029	0	0	0
YQTLSLK	SMC3	Q9UQE7	SMC3	HUM	Unmodified	358690	1078700	833660	0	0	0	0	0	0
YQVGVHYELTEEEK	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	556920	0	678350	0	0	0	0	0	0
YQYGGLNSGRPVTPPR	PPP1CB	P62140	PP1B	HUM	Deamidation (N)	12839000	10198000	12256000	76845	646700	826340	131910	92949	198370
YRADTLGELDLER	ACOT2; ACOT1; AC	P49753; Q86TX2;	ACOT2	HUM	Unmodified	1579600	3027700	1599500	41434	22157	37728	0	0	0
YRAFITNIPFDVK	HNRNPM; HNRNPM	P52272; M0R0N3	HNRPM	HUM	Unmodified	2429300	0	2402200	0	0	0	0	0	0
YRCELLYEGPPDDEAAMGIK	EEF2	P13639	EF2	HUM	Oxidation (M)	5982700	3186000	5937500	82354	74385	0	0	0	0
YRDVAECGPQQELDLNSPR	MCMBP	Q9BTE3	MCMBP	HUM	Unmodified	0	1869900	2091100	0	0	0	0	0	0
YRDVSPFDHSR	PTPN1	P18031	PTN1	HUM	Unmodified	1518500	1964900	1519200	81682	94865	99065	16627	22097	22513
YREEEMTVVEEADDDKKR	CTNNBL1; CTNNBL	Q8WYA6; A2A2P	CTBL1	HUM	Oxidation (M)	1677900	0	2514500	73059	0	0	0	0	0
YRELGNIIQK	METAP1; METAP1	P53582; H0Y955	MAP11	HUM	Unmodified	2088900	2400900	1863500	0	0	0	0	0	0
YREWHHFLVVNMK	PEBP1	P30086	PEBP1	HUM	Oxidation (M)	1534400	1363500	996980	0	0	0	0	0	0
YRPEEVDIDAK	PLEKHA5; PLEKHA	Q9HAU0; A0JP02	PKHA5	HUM	Unmodified	754050	1303200	423470	0	79205	0	0	0	0
YRPLFDYFLK	IARS1; IARS1; IARS	P41252; A0A0A0	SYIC	HUM	Unmodified	853140	446140	441930	0	0	0	0	0	0
YRQDDDQRSSHYDELLAAEAR	SND1; SND1	Q7KZF4; H7C597	SND1	HUM	Unmodified	1163400	1270300	1052800	125640	127200	120260	0	21015	0
YRTIDEHDAII	TMEM123; TMEM12	Q8N131; E9PKT4	PORIM	HUM	Unmodified	1306400	1121700	0	721540	949420	0	316050	13817	307670
YRVPDVLVADPPIAR	GANAB; GANAB	Q14697; F5H6X6	GANAB	HUM	Unmodified	19937000	23131000	15869000	528970	67588	66853	176790	129730	20832
YSAFQLAPFQDHGLPAVSVDSPVR	USP6NL; USP6NL	Q92738; X6RAB3	US6NL	HUM	Unmodified	949140	66365	523970	0	0	0	0	0	0
YSDIEPSTEGEVIFR	LAMB1; LAMB1; LA	P07942; A0A7I2V	LAMB1	HUM	Unmodified	1056900	0	609720	479820	501940	495300	0	0	0
YSDMIVAAIQAEK	H1-0	P07305	H10	HUM	Oxidation (M)	4563000	5115200	4387200	181990	112770	36636	0	0	0
YSDMIVAAIQAEKNR	H1-0	P07305	H10	HUM	Oxidation (M);Deai	1089200	785580	0	0	0	83013	0	0	0
YSDMIVAAIQAEKNR	H1-0	P07305	H10	HUM	Oxidation (M)	2716300	3556700	2874100	97148	90759	86599	0	0	0
YSDMIVAAIQAEKNR	H1-0	P07305	H10	HUM	Oxidation (M);Metl	0	1497700	1098700	71979	0	0	0	0	0
YSDSLVQK	MSH6; MSH6; MSH6	P52701; A0A494	MSH6	HUM	Unmodified	2340200	3201200	311210	21915	0	0	12096	0	0
YSEAAELR	AKAP2; PALM2AK/	Q9Y2D5; C9JVY5	AKAP2	HUM	Unmodified	1644200	0	1239600	0	464870	0	0	0	19101
YSEFFTGSK	SDF4; SDF4	Q9BRK5; A0A5F9	CAB45	HUM	Unmodified	606420	0	734310	126600	112080	126990	0	0	0
YSEIEPSTEGEVIYR	LAMB2; LAMB2	P55268; F5H520	LAMB2	HUM	Unmodified	564560	0	541640	433670	191130	204530	0	0	0
YSEIQDR	MACF1; MACF1; MA	H3BQK9; H3BPE	H3BQK9	HUM	Unmodified	684850	583770	738160	0	0	0	0	0	0
YSETLKPDNFEESGYTFIAPR	CACNA2D1; CACNA	P54289; H0Y715	CA2D1	HUM	Unmodified	1318800	811780	1380200	0	0	0	0	0	0
YSETLKPDNFEESGYTFIAPR	CACNA2D1; CACNA	P54289; H0Y715	CA2D1	HUM	Deamidation (N)	0	667260	684250	0	0	0	0	0	0
YSFCTDHTVLVQTR	FN1	P02751	FINC	HUM	Unmodified	1151300	861380	767160	60853	73021	36700	26780	22696	0
YSFLQFDPAPR	PPP2CB; PPP2CA; P	P62714; P67775;	PP2AB	HUM	Unmodified	10172000	8627300	8960500	119140	92967	101520	16531	22268	0
YSFSEDTKSPLSVPR	SORBS1	Q9BX66	SRBS1	HUM	Unmodified	1747100	1908600	1806800	321300	300750	298290	936820	838710	889310
YSGAYGASVSDEELK	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Unmodified	2871700	2354300	2137800	99849	100260	151900	0	0	0
YSGAYGASVSDEELKR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Unmodified	1620900	2691900	1505000	100810	150680	162560	0	0	0
YSGAYGASVSDEELKRR	CHCHD3; CHCHD3;	Q9NX63; F8WAR	MIC19	HUM	Unmodified	4490000	5909000	1260500	354130	274480	335770	23757	0	25010
YSGELSGIR	UTP3	Q9NQZ2	SAS10	HUM	Unmodified	2110600	1455900	618530	63396	32539	30853	0	0	0
YSGPEDDAAISLAFSKK	TOP2A	P11388	TOP2A	HUM	Unmodified	1427100	0	0	0	0	0	0	0	0
YSGRDSLIFLVDASK	XRCC6	P12956	XRCC6	HUM	Unmodified	509990	2669600	1351300	0	0	0	0	0	0
YSGSYNDYLR	RBM14	Q96PK6	RBM14	HUM	Deamidation (N)	10069000	8361600	13630000	388240	347870	283430	0	0	0
YSGSYNDYLR	RBM14	Q96PK6	RBM14	HUM	Unmodified	2535800	3734000	2797300	682700	545310	476860	0	0	0
YSGTLNLDR	FASN; FASN	P49327; A0A0U1I	FAS	HUM	Unmodified	2177700	2949300	3026400	71518	67636	260370	0	0	0
YSIFTEKDEILSDVASR	ATG4B; ATG4B; ATG	Q9Y4P1; F2Z2K8	ATG4B	HUM	Unmodified	837050	438700	954030	0	0	0	0	0	0
YSIGEPTVPSTLAEEFTYNPFMR	HAGH; HAGH; HAG	Q16775; H3BPK3	GLO2	HUM	Oxidation (M)	251900	333670	225480	0	0	0	0	0	0
YSIGGLSPFSEYAFR	PTPRF; PTPRF; PTP	P10586; H0Y4H1;	PTPRF	HUM	Unmodified	1147100	1196500	950750	0	0	0	0	0	0
YSITFTGK	SPON2; SPON2; SPO	Q9BUD6; D6RB1	SPON2	HUM	Unmodified	0	0	0	428260	402830	371960	0	0	0
YSLDPENPTK	RPL17; RPL17; RPL	P18621; A0A087	RL17	HUM	Unmodified	1160000	1880000	1594200	70880	0	67238	0	0	0
YSLEPVAVELK	PGK1	P00558	PGK1	HUM	Unmodified	14886000	11501000	13936000	0	172030	114000	0	55687	119530
YSLGPSLR	ITPR3	Q14573	ITPR3	HUM	Unmodified	818810	1352100	1234100	52817	91398	126890	0	0	0
YSLLPFWYTLLYQAHR	GANAB; GANAB; G	Q14697; F5H6X6	GANAB	HUM	Unmodified	111720	0	66627	0	0	0	0	0	0
YSLSGGGTSSH	STK24; STK24; STK	Q9Y6E0; Q5JV98	STK24	HUM	Unmodified	1199300	886660	922280	92383	92185	108100	0	0	0
YSLYEVHVSGEER	AFDN; AFDN; AFDN	A8MQ02; F8W9I4	A8MQ02	HUI	Unmodified	1586700	1798400	1283800	143250	87463	0	0	0	0
YSLYEVHVSGER	AFDN; AFDN; AFDN	P55196; Q5TIG5;	AFAD	HUM	Unmodified	1112000	0	1771200	125940	169740	0	0	0	0
YSNENLDLAR	LONP1; LONP1; LO	P36776; K7ER27;	LONM	HUM	Deamidation (N)	0	0	733060	0	0	0	0	0	0
YSNFVSFPLYLNGR	TRAP1; TRAP1; TRA	Q12931; I3L2D5;	TRAP1	HUM	2 Deamidation (N)	0	50182	66784	0	0	0	0	0	0
YSNFVSFPLYLNGRR	TRAP1; TRAP1; TRA	Q12931; I3L2D5;	TRAP1	HUM	Deamidation (N)	1342600	0	1877400	0	0	0	0	0	0
YSNFVSFPLYLNGRR	TRAP1; TRAP1; TRA	Q12931; I3L2D5;	TRAP1	HUM	2 Deamidation (N)	807750	1185400	0	0	0	0	0	0	0
YSPGYNTEVGDKWIWLK	NDUFA10; NDUFA1	O95299; E7ESZ7;	NDUAA	HUM	Unmodified	0	483100	4693000	0	0	0	0	0	0
YSPTSPTYSPTSPVYTPTSPK	POLR2A; POLR2A	P24928; A0A6Q8	RPB1	HUM	Unmodified	884790	641390	682970	0	0	0	0	0	0
YSPTTSHVGA	WDR12	Q9GZL7	WDR12	HUM	Unmodified	2682200	4427000	5633100	142290	127760	153370	14115	0	0
YSQAPTLPSGAHLDPYVAGSGR	PPFIA3; PPFIA3	O75145; R4GN36	LIPA3	HUM	Unmodified	632930	437210	451710	0	0	0	0	0	0
YSQLVVETIR	H1-10	Q92522	H1X	HUM	Unmodified	4358400	6100100	6146200	47934	29878	42556	0	0	0
YSQLVVETIRR	H1-10	Q92522	H1X	HUM	Unmodified	1728500	1555400	1731400	0	0	0	0	0	0
YSQTGNYELAVALSR	DDOST; DDOST	P39656; A0A0C4	OST48	HUM	Unmodified	0	0	0	0	0	0	0	0	0
YSQVLANGLDNK	RPS18; RPS18	P62269; J3JS69	RS18	HUM	Deamidation (N)	544220	652570	674700	0	0	0	0	0	0
YSRGRLTVMTDLEDK	LMAN2; LMAN2; LM	Q12907; D6RIU4;	LMAN2	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
YSSAFTNR	MAGT1; MAGT1	Q9H0U3; A0A087	MAGT1	HUM	Unmodified	1305500	967330	685100	0	61279	0	0	0	0
YSSDVQEMILSSATADRIPIAVSGVR	GCN1	Q92616	GCN1	HUM	Oxidation (M)	1924200	0	1590100	0	0	0	0	0	0
YSSMEDHLEILEWTLR	POLD2; POLD2; POL	P49005; A0A087	DPOD2	HUM	Oxidation (M)	2574700	630000	1549200	0	0	0	0	0	0
YSVDIPLDK	RPL27; RPL27	P61353; K7ELC7	RL27	HUM	Unmodified	7104400	7683200	8986500	167770	153470	157490	0	0	0
YSVDIPLDKTVVNK	RPL27; RPL27	P61353; K7ELC7	RL27	HUM	Unmodified	508380	561220	418500	0	0	0	0	0	0
YSVDIPLDKTVVNK	RPL27; RPL27	P61353; K7ELC7	RL27	HUM	Methyl (KR)	0	0	2968800	99727	85809	67747	0	0	0
YSVQLLTPANLLAK	RUVBL1; RUVBL1	Q9Y265; H7C4G5	RUVB1	HUM	Unmodified	17315000	20212000	16582000	0	28807	12514	15402	15448	0
YSVTGPGADQPPTGIFIINPISGQLSVTKPLDREQIAR	CDH2; CDH2; CDH2	P19022; C9J126;	CADH2	HUM	Unmodified	4319000	0	0	0	0	0	0	0	0
YSYVCPDLVK	ACTR3; ACTR3	P61158; B4DXW1	ARP3	HUM	Unmodified	1210800	1510900	0	28902	50962	40327	0	0	0
YSYYDESQGEIYR	MEMO1	Q9Y316	MEMO1	HUM	Unmodified	731560	725630	575670	0	0	0	0	0	0
YTAAVPYR	DHCR7	Q9UBM7	DHCR7	HUM	Unmodified	2433700	2812600	2715000	172650	155320	158700	11896	0	14899
YTAEEIEVLR	CAPN7	Q9Y6W3	CAN7	HUM	Unmodified	1976200	0	1359600	95323	88070	99433	0	0	0
YTAESSDTLCPR	IARS2	Q9NSE4	SYIM	HUM	Unmodified	1283300	1061500	750840	0	152170	0	0	0	0
YTAILNQIPSHSSSIR	COL14A1; COL14A1	Q05707; A0A0A0	COEA1	HUM	Unmodified	891510	0	0	140440	145080	200650	80574	0	0
YTAQVDAEEKEDVK	ATP5PD	O75947	ATP5H	HUM	Unmodified	442230	651020	696680	0	0	0	0	0	0
YTEGVQSLNWTK	SUPT16H	Q9Y5B9	SP16H	HUM	Unmodified	1487000	1651100	1709800	0	0	0	0	0	0
YTEHKDIPLGIR	NPLOC4	Q8TAT6	NPL4	HUM	Unmodified	1297800	1414900	1515300	0	56251	0	0	0	0
YTELEYIHALTLLHR	EXOC4	Q96A65	EXOC4	HUM	Unmodified	253210	205010	258990	0	0	0	0	0	0
YTEMDYAR	MRTO4	Q9UKD2	MRT4	HUM	Oxidation (M)	1159300	1061600	1118700	0	0	0	0	0	0
YTFAAHMDGTYK	TMED2; TMED2	Q15363; E7EQ72	TMED2	HUM	Oxidation (M)	1158400	1275100	1574400	8718.9	0	0	0	0	0
YTGEDFDEDLRTVLR	DYNC1H1; DYNC1H	Q14204; A0A7P0	DYHC1	HUM	Unmodified	384420	413230	0	0	0	0	0	0	0
YTGYKGPDAWK	ERO1A; ERO1A; ERO	Q96HE7; G3V3E6	ERO1A	HUM	Unmodified	735710	1125700	738090	0	0	0	0	0	0
YTIAALLSPYSYSTTAVVTNPK	TTR; TTR	P02766; A0A087	TTHY	HUM	Unmodified	509490	479120	524180	0	0	0	21195	0	0
YTIAALLSPYSYSTTAVVTNPKE	TTR; TTR	P02766; A0A087	TTHY	HUM	Unmodified	1066500	923860	1399700	0	0	0	0	0	28450
YTIENPR	SND1	Q7KZF4	SND1	HUM	Unmodified	0	2801000	3524500	141410	180860	223070	0	0	0
YTIGDIFVHSPQR	SIPA1L2; SIPA1L2; S	Q9P2F8; A0A6Q8	SI1L2	HUM	Unmodified	761260	567640	387410	0	0	0	0	0	0
YTIHSQLEHLQSK	SF3B5	Q9BWJ5	SF3B5	HUM	Unmodified	2083800	1873000	2042200	0	0	0	0	0	0
YTIIPENLKPQMK	ACO1	P21399	ACOC	HUM	Oxidation (M)	2527500	2932800	2755600	84092	86669	118240	0	0	0
YTIIPLNK	SMC2	O95347	SMC2	HUM	Unmodified	1171300	1093200	1068000	0	0	0	0	0	0
YTISQEAYDQR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUM	Unmodified	3225100	3053700	2523900	76656	47683	82724	0	0	0

YTISQEAYDQRQDTVR	TBCB; TBCB; TBCB	Q99426; K7EP07;	TBCB	HUMA	Unmodified	13646000	17474000	16597000	159510	77794	180040	0	19174	0
YTLHYKTDAPLNIR	TRAP1; TRAP1; TRA	Q12931; I3L0K7;	TRAP1	HUM	Unmodified	2013800	2063800	1644600	88327	76717	65108	0	0	0
YTPSGQAGAAASESLFVSNHAY	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Unmodified	2936900	3157800	2949100	68812	45390	0	55453	0	0
YTPSGQAGAAASESLFVSNHAY	ALDOA; ALDOA; AI	P04075; J3KPS3;	ALDOA	HUM	Deamidation (N)	12067000	11207000	14006000	84640	38731	0	0	0	0
YTPSQGGVAFNSGAK	SNW1; SNW1; SNW1	Q13573; G3V4X8	SNW1	HUM	Deamidation (N)	2302400	3209600	2027200	22127	13363	0	0	0	0
YTPTQQGNMQVLVTYGGDPIPK	FLNB; FLNB	O75369; E7EN95	FLNB	HUMA	Oxidation (M)	0	0	0	161060	120580	138250	0	35258	54377
YTPVQQGPVGVNVTYGGDPIPK	FLNA; FLNA; FLNA	P21333; A0A7P0	FLNA	HUMA	Unmodified	9561100	8699600	7884700	194370	158990	114680	342460	234300	247700
YTTPEDATPEPGEDPR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	Unmodified	1861300	1798700	1458300	148900	158380	176730	0	0	0
YTTPEDATPEPGEDPRVTR	GNAS; GNAS; GNAS	Q5JWF2; P63092;	GNAS1	HUM	Unmodified	4440200	5075100	4963000	610000	559440	0	0	0	0
YTTPSGEVR	NPEPPSL1; NPEPPS	A6NEC2; P55786;	PSAL	HUMA	Unmodified	1433300	1599800	1510700	92785	133660	95680	0	0	0
YTVIYPYTAR	SH3PXD2B; SH3PXI	A1X283; A0A1B0	SPD2B	HUM	Unmodified	490540	667470	594680	0	0	0	0	0	0
YTVQDESHSEWVSCVR	RACK1; RACK1; RA	P63244; D6RFZ9;	RACK1	HUM	Unmodified	619520	616200	584620	18116	25526	0	0	0	0
YVANLFPYK	PPA1; PPA1	Q15181; Q5SQT6	IPYR	HUMA	Unmodified	3498500	16641000	10638000	187280	86638	94281	0	0	0
YVAPPSLR	CAD; CAD; CAD	P27708; F8VPD4;	PYR1	HUMA	Unmodified	1405300	1436700	1425500	0	56351	0	0	0	0
YVATLGVEVHPLVFHTNR	RAN; RAN; RAN; R/	P62826; H0YFC6;	RAN	HUMA	Unmodified	1128500	0	1334000	0	0	0	0	0	0
YVAVMPPHIGDQPLTGAYTVTLDGRGPSR	BLVRB; BLVRB	P30043; A0A2R8	BLVRB	HUM	Oxidation (M)	0	3613100	3194300	0	0	0	0	0	0
YVDEVVR	PCYT1A; PCYT1A; I	P49585; H7BZN1	PCY1A	HUM	Unmodified	129330	137600	317040	211870	216220	268930	0	0	0
YVDFPITDVLQMMGR	ASCC3	Q8N3C0	ASCC3	HUM	2 Oxidation (M)	1202900	1568500	1339000	0	0	0	0	0	0
YVDKLEKIFQNAPTDPTQDFSTQVAK	USP5	P45974	UBP5	HUMA	Unmodified	330130	410920	339680	0	0	0	0	0	0
YVDPVISK	MAP7; MAP7	Q14244; A0A087	MAP7	HUM	Unmodified	449920	452020	399340	43198	43267	46989	0	0	0
YVDSSKAVIETADR	PPID	Q08752	PPID	HUMA	Unmodified	1323200	0	0	0	0	0	0	0	0
YVDTPFGKPSDALILGK	MTAP; N/A; MTAP;	Q13126; F2Z2F3;	MTAP	HUM	Unmodified	7755500	4633500	5018300	29365	0	19699	0	0	0
YVDTPFGKPSDALILGK	MTAP; N/A; MTAP;	Q13126; F2Z2F3;	MTAP	HUM	Methyl (KR)	0	330350	355630	0	0	0	0	0	0
YVDVLNPSGTQR	SEC16A; SEC16A; SI	O15027; F1T0I1;	SC16A	HUM	Unmodified	1661300	1710500	1889400	400610	365000	480900	110930	73023	65964
YVECSALTQK	RHOQ; CDC42	P17081; P60953	RHOQ	HUM	Unmodified	1711400	0	1837800	103810	103640	78448	0	0	0
YVEEQPGHLQMGFASIR	APOOL; APOOL	Q6UXV4; A0A08	MIC27	HUM	Oxidation (M)	720810	887300	0	96921	103470	0	0	0	0
YVELFLNSTAGASGGAYEHR	HNRNPH1; HNRNPI	P31943; G8JLB6;	HNRH1	HUM	Unmodified	2880600	1928100	1784800	0	0	0	0	0	0
YVELFLNSTAGASGGAYEHR	HNRNPH1; HNRNPI	P31943; G8JLB6;	HNRH1	HUM	Deamidation (N)	4038600	4290100	1394100	0	0	0	0	0	0
YVETQAK	EIF3K; EIF3K; EIF3K	Q9UBQ5; K7ES31	EIF3K	HUM	Unmodified	891200	835320	955120	0	32756	31401	0	0	0
YVEVFKSNNVEMDWVLK	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M)	412160	229830	0	0	0	0	0	0	0
YVEVFKSNNVEMDWVLK	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M);Deai	7868300	10239000	13627000	0	0	0	0	0	0
YVEVFKSNNVEMDWVLK	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M);2 De	352690	497020	451160	0	0	0	0	0	0
YVEVFKSNNVEMDWVLK	HNRNPH1; HNRNPI	P31943; E9PCY7;	HNRH1	HUM	Oxidation (M);Met	486150	368390	0	0	0	0	0	0	0
YVEVFKSNSVEMDWVLK	HNRNPH2	P55795	HNRH2	HUM	Oxidation (M);Deai	1032700	3423000	1922500	0	0	0	0	0	0
YVEVSPATER	RBM12	Q9NTZ6	RBM12	HUM	Unmodified	8568500	6725500	9725900	299130	346770	503160	0	0	0
YVFLDPLAGAVTK	WASHC1; WASH2P;	A8K0Z3; Q6VEQ	WASH1	HUM	Unmodified	1030400	731770	761050	7641	0	0	0	0	0
YVGESEANIR	NSF; NSF	P46459; I3L0N3	NSF	HUMAN	Unmodified	2443500	3045600	2776400	0	0	113460	0	0	0
YVGETQPTGQIK	SAMHD1; SAMHD1	Q9Y3Z3; A0A2R8	SAMH1	HUM	Unmodified	1006100	846820	1021400	0	0	0	0	0	0
YVGGQEHFAHLLILR	ORM1	P02763	A1AG1	HUM	Unmodified	10554000	10942000	7739400	0	0	0	0	0	0
YVGGQEHFAHLLILRDTK	ORM1	P02763	A1AG1	HUM	Unmodified	5686500	3237400	0	0	0	0	0	0	0
YVICVR	TUT4; FLNA; TUT4;	Q5TAX3; P21333	TUT4	HUMA	Unmodified	1320600	1442300	1002200	33831	39320	40059	42638	0	33679
YVIIPTTFEPGHTGEFLLR	CAPN5; CAPN5; CA	O15484; E7EV01;	CAN5	HUMA	Unmodified	5665700	2596400	1952500	0	0	0	0	0	0
YVKEQEQ	MICOS10; MICOS10	Q5TGZ0; A0A087	MIC10	HUM	Unmodified	2000600	2063200	2119200	0	162800	218720	0	0	0
YVLEEAEQLEPR	PRPF38A	Q8NAV1	PR38A	HUM	Unmodified	7416200	5008700	3797100	61781	140750	124790	0	0	9650.5
YVLGDTAMQK	UBA6	A0AVT1	UBA6	HUMA	Oxidation (M)	1647300	2214700	2044500	119070	230000	357940	0	0	0
YVLGMQELFR	THOC3; THOC3	Q96J01; D6RGZ2	THOC3	HUM	Oxidation (M)	3490000	3246000	3906600	27688	40735	36425	0	0	0
YVLINWVGEDVPDAR	DBN1; DBN1; DBN1	Q16643; D6RFI1;	DREB	HUM	Unmodified	1196100	802710	672210	0	0	0	0	0	0
YVLINWVGEDVPDARK	DBN1; DBN1; DBN1	Q16643; D6RFI1;	DREB	HUM	Unmodified	1563000	0	1008800	0	0	0	0	0	0
YVMGNNPADLLAVDSR	DSG1	Q02413	DSG1	HUMA	Oxidation (M)	694480	996070	830530	324250	269460	257000	34600	27572	33610
YVMTTTTLER	EIF2S1; EIF2S1; EIF2	P05198; H0YJS4;	IF2A	HUMA	Oxidation (M)	528940	746970	859110	0	0	0	0	0	0
YVPGSASMGTTMAGVDPFTGNSAYR	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	2 Oxidation (M);De	2820400	2496800	2319400	61093	59479	84614	0	0	0
YVPGSSGSSNTLPTADPFTGAGR	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	Unmodified	2225700	2208900	2080800	66782	0	0	0	14056	0
YVPGSSGSSNTLPTADPFTGAGR	PLAA; PLAA; PLAA	Q9Y263; H0YBW	PLAP	HUMA	Deamidation (N)	1408900	910250	1047800	102440	52369	73255	0	0	0
YVPLADVK	TMPO; TMPO; TMP	P42167; G5E972;	LAP2B	HUM	Unmodified	0	8872400	10550000	344230	271010	306270	11587	0	0
YVPLADVKSEK	TMPO; TMPO	P42167; G5E972	LAP2B	HUM	Unmodified	5010700	4990000	4329400	110320	104420	118760	0	0	17318
YVPPSLRDGASR	EIF3G; EIF3G; EIF3G	O75821; K7EL20;	EIF3G	HUM	Unmodified	725830	659990	628980	49052	54480	33555	11338	0	0
YVPPSSTDRSPYEK	MUC1; MUC1; MUC	P15941; A6ZIE3;	MUC1	HUM	Unmodified	1365200	1041100	1034700	0	0	0	0	0	0
YVPTPFVPYAVQK	PGM2L1	Q6PCE3	PGM2L	HUM	Unmodified	0	773810	549810	0	0	0	0	0	0
YVQELAAVR	NUMA1; NUMA1; N	Q14980; H0YFY6	NUMA1	HUM	Unmodified	4778400	4613100	4401200	145620	87243	125710	0	0	0
YVQLPADEVDTQLLQDAAR	LSM2	Q9Y333	LSM2	HUM	Unmodified	16084000	16064000	15506000	19047	0	0	0	0	14091
YVQLPADEVDTQLLQDAARK	LSM2	Q9Y333	LSM2	HUM	Unmodified	9179400	4990400	6561800	0	0	0	0	0	0
YVQLPADEVDTQLLQDAARKEALQQKQ	LSM2	Q9Y333	LSM2	HUM	Unmodified	7693400	6353000	6315900	0	0	0	0	0	0
YVQPMASFAR	SUPT6H	Q7KZ85	SPT6H	HUM	Oxidation (M)	1756100	915270	839360	0	0	34387	0	0	0
YVQQLQR	MRPL43; MRPL43; I	Q8N983; H0Y6Y8	RM43	HUMA	Unmodified	0	839640	0	0	0	0	0	0	0
YVRPGGGFEPNFMLFEK	GPX1; GPX1	P07203; A0A2R8	GPX1	HUMA	Oxidation (M)	1499000	1131200	1559300	0	0	0	0	0	0
YVSSLTEEISK	LMAN1	P49257	LMAN1	HUM	Unmodified	1671500	1256000	2250800	0	0	141860	0	0	0
YVSSLTEEISKR	LMAN1	P49257	LMAN1	HUM	Unmodified	2598400	3328900	2899500	94765	113940	102370	0	0	0
YVSSVTSR	MAPT; MAPT	P10636; A0A7EP	TAU	HUMA	Unmodified	335910	517950	440750	30419	0	0	0	0	0
YVVGLIIK	XPO1; XPO1; XPO1	O14980; A0A7E	XPO1	HUMA	Unmodified	167060	240950	228580	0	0	0	0	0	0
YVVISQGLDKPR	LRP1	Q07954	LRP1	HUMA	Unmodified	355710	540800	570580	36405	0	37102	0	0	0
YVVLPRPVCFEK	LAMB1; LAMB1; LA	P07942; A0A7E	LAMB1	HUM	Unmodified	0	0	0	213840	188450	502670	44623	0	0
YVVVKNDYAVESYENKEAYQR	NIBAN1	Q9BZQ8	NIBA1	HUM	Deamidation (N)	1104400	1697900	1176100	0	49530	0	0	0	0
YVVVTGITPTPLGEGK	MTHFD1; MTHFD1;	P11586; V9GZ78;	C1TC	HUMA	Unmodified	1911300	1948500	0	0	0	0	0	0	0
YVWLVYEQDRPLK	PEBP1	P30086	PEBP1	HUM	Unmodified	3730900	5286700	5031600	78381	0	0	0	0	0
YVYQPMEK	ARCN1; ARCN1; AR	P48444; Q6P1Q5;	COPD	HUMA	Oxidation (M)	1129600	851200	711230	32859	0	0	0	0	0
YWLCAATGPSIK	RACK1; RACK1; RA	P63244; D6RAC2	RACK1	HUM	Unmodified	0	1736500	0	0	0	0	0	0	0
YYADGEDAYAMKR	NAA11; NAA10; NA	Q9BSU3; P41227;	NAA11	HUM	Oxidation (M)	952330	865020	547080	0	0	0	0	0	0
YYASEIAGQTTSK	ACADSB	P45954	ACDSB	HUM	Unmodified	1007300	563690	1068200	115150	95580	131010	0	0	0
YYCFQGNQFLR	HPX; HPX	P02790; Q9BS19	HEMO	HUM	Unmodified	1417200	1643300	1146700	24972	0	0	0	0	0
YYDDTYPSVK	COPZ1; COPZ1; COI	P61923; F8W156;	COPZ1	HUM	Unmodified	728010	1231700	1082600	0	0	0	0	0	0
YYDILK	DHX15	O43143	DHX15	HUM	Unmodified	2188000	1684400	1878100	0	0	31282	0	0	0
YYDSRPGGYGYGYGR	RBM3	P98179	RBM3	HUM	Unmodified	4025500	5949900	7653300	221740	217160	294990	100380	0	0
YYEEFPINLK	GALNS; GALNS	P34059; H3BP66	GALNS	HUM	Unmodified	906650	1213500	860980	12035	11770	0	0	0	0
YYEVSADKPHLSYLTEYR	CORO2A	Q92828	COR2A	HUM	Unmodified	1829900	1249100	0	0	0	0	0	0	0
YYFEGIKQTFGYGAR	AHSA1; AHSA1; AH	O95433; H0YJU2;	AHSA1	HUM	Unmodified	13924000	10611000	11430000	0	0	0	32794	24822	19735
YYFEGIKQTFGYGAR	AHSA1; AHSA1; AH	O95433; H0YJU2;	AHSA1	HUM	Methyl (KR)	0	0	0	0	0	0	0	0	0
YYGGGSEGGR	HNRNPL	P14866	HNRPL	HUM	Unmodified	18537000	15284000	21883000	840590	0	1107800	0	0	0
YYGGGSEGGRAPK	HNRNPL	P14866	HNRPL	HUM	Unmodified	11927000	12823000	0	0	2048900	3715900	0	0	0
YYGGTEFIDELETLCQKR	SHMT1; SHMT1; SH	P34896; J3KRZ5;	GLYC	HUM	Unmodified	1572000	1997400	2301700	0	0	0	0	0	0
YYGLQILENVIK	XPO1; XPO1; XPO1	O14980; A0A7E	XPO1	HUMA	Unmodified	260980	198270	343330	0	0	0	0	0	0
YYIAASYVK	GGH; GGH; GGH; G	Q92820; A0A7E	GGH	HUMA	Unmodified	13473000	12383000	13348000	16297	0	28991	0	0	0
YYIAASYVKYLESAGAR	GGH; GGH; GGH; G	Q92820; A0A7E	GGH	HUMA	Methyl (KR)	1073700	936300	938250	0	0	0	0	0	0
YYKNIGLGFK	RPS11; RPS11	P62280; M0QZC	RS11	HUM	Unmodified	610240	0	0	39704	28907	0	0	0	0
YYKVEPLDFGGTQK	HEXB; HEXB; HEXE	P07686; H0YA83;	HEXB	HUM	Unmodified	1300600	1403600	1412600	51933	39677	52218	0	0	0
YYLAPKIEDEEGS	PCNA	P12004	PCNA	HUM	Unmodified	20586000	25388000	23655000	782290	800370	775900	0	0	83667
YYLAPKIEDEEGS	PCNA	P12004	PCNA	HUM	Methyl (KR)	2616500	2139700	2936100	0	0	0	0	0	0
YYLDSLDR	GNAO1; GNAO1	P09471; H3BTM2	GNAO	HUM	Unmodified	1402800	1714400	1475700	0	0	0	0	0	0
YYLTDVDR	GNA11; GNA11	P29992; K7EL62	GNA11	HUM	Unmodified	1541700	1221300	1228800	0	0	0	0	0	0
YYNGHTKVAVKSLKQGSMSPDAFLAEANLMK	LCK; LCK; LCK	P06239; E9PJ92;	LCK	HUMA	Oxidation (M);Met	0	0	4681100	0	0	0	0	0	0
YYPTEDVPR	RPL6; RPL6; RPL6; I	Q02878; U3KQR5	RL6	HUMAN	Unmodified	18041000	18297000	18582000	679600	771350	773460	0	0	0
YYPTEDVPRK	RPL6; RPL6; RPL6; I	Q02878; U3KQR5	RL6	HUMAN	Unmodified	852980	755250	889170	26140	0	40089	0	0	0
YYPYQSFQTPQHPSFLFQDKR	LGALS3BP	Q08380	LG3BP	HUM	Unmodified	0	992290	1052200	0	0	0	0	0	0
YYREVLPGEIVEISR	PPAT	Q06203	PUR1	HUMA	Unmodified	2080000	1500900	1907400	0	0	0	0	0	0
YYRNYYGYQGYR	HNRNPUL2	Q1KMD3	HNRL2	HUM	Deamidation (N)	1461800	1402400	1389700	34856	41320	53578	0	0	0
YYTEFPTVLDITAEDPSK	HAT1	O14929	HAT1	HUMA	Unmodified	817020	735430	1137100	0	0	0	0	0	0
YYTEFPTVLDITAEDPSKSYVK	HAT1	O14929	HAT1	HUMA	Unmodified	1158700	978110	962870	0	0	0	0	0	0
YYTLFGR	EPRS1	P07814	SYEP	HUMA	Unmodified	2720400	2078500	2301500	67043	81339	126600	0	0	0
YYTSASGDEMVSLK	HSP90AA1	P07900	HS90A	HUM	Oxidation (M)	7858800	8833500	9086200	76251	72021	69233	0	0	0
YYTSASGDEMVSLKDYCTR	HSP90AA1	P07900	HS90A	HUM	Oxidation (M)	5445400	6925200	5680900	0	0	0	0	0	0
YYVTIIDAPGHR	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Unmodified	894620	1013200	1015400	65230	70288	98292	77631	66780	74675
YYVTIIDAPGHRDFIK	EEF1A1P5; EEF1A1;	Q5VTE0; P68104;	EF1A3	HUM	Unmodified	570660	353750	905740	0	0	0	0	0	0

Supplementary Table 7. Proteins identified by mass spectrometry after data normalization and imputation.

Gene	Brain NEPC #1	Brain NEPC #2	Brain NEPC #3	Dura Ad #1	Dura Ad #2	Dura Ad #3	Primary Ad #1	Primary Ad #2	Primary Ad #3
A1BG	15.75437651	15.71523851	15.63103045	15.75267455	15.78789269	15.66180965	16.60766596	16.43218398	17.08170799
A2M	16.93441627	16.87201917	16.94474705	17.64512649	16.61262168	17.259938	17.77861182	18.10441659	18.91973142
AAAS	14.34605927	14.02419235	14.17861783	15.57633583	15.63098279	15.5371564	12.13026649	11.99420197	12.89815732
AADAT	15.00617061	15.09812523	15.33579504	14.49261945	15.99544753	14.43415347	18.02618106	12.57194419	11.53297691
AAK1	16.26968756	12.23249208	12.53343725	18.08606579	18.35878775	18.06660366	19.98651789	20.25906285	13.32114108
AAMDC	14.93695335	14.98093387	15.04367743	15.247963	12.44341008	15.92094836	12.03356147	12.05057107	12.54483905
AAMP	15.78594834	16.04803693	15.73504568	12.73733274	11.6682437	11.48161742	12.61631177	12.870547	13.07830844
AAR2	15.35494751	15.68525104	13.45627427	13.70769365	12.0760853	12.27097172	11.58960922	12.03656797	12.62996385
AARS1	16.24032518	16.73217577	16.25653388	13.63523763	14.74198523	15.06341299	13.68229695	15.76194733	13.42100944
AARS2	15.48383316	15.39013811	15.1889696	16.84682067	16.62729378	16.94495497	12.58315115	12.74708107	13.07186057
AARSD1	13.53380206	13.13945209	14.08168322	14.04672703	14.59708617	12.17343595	12.81342799	12.73272115	11.96177515
AASDHPP	15.64993776	15.72061666	15.85005185	15.20159437	14.89873858	14.57181615	13.03020016	11.98284075	11.79160197
AATF	14.36873533	14.14964837	14.13618771	14.34707885	12.72482304	14.14439645	11.90479142	14.47437457	12.36137382
ABAT	15.25391428	15.32335483	12.04485599	12.13288768	12.3631327	12.99809754	12.17373472	11.99438096	12.82991059
ABCB4	13.15345891	14.56232551	14.44292237	12.109687	12.33040435	12.70358775	12.6470856	11.67025565	11.99205413
ABCB7	15.75709454	16.03585272	15.70554023	13.24527245	12.26543039	12.77107681	12.50627494	12.70089934	11.72432303
ABCD3	15.06480439	15.11119665	15.30389642	14.96758028	14.90396651	14.92493404	12.29591034	12.26814674	13.29665126
ABCE1	15.85659265	15.70667058	15.94967394	16.14523833	16.20828168	15.73325773	12.75184453	11.69729382	12.81909776
ABCF1	15.90514136	15.30853237	15.90854709	15.36003816	14.88278402	14.32526296	15.22083902	15.53717993	14.67410031
ABCF2	15.09857854	15.83661489	15.12904666	11.84031025	12.39910553	12.45889723	12.08560967	12.29399044	13.15981194
ABCF3	14.47255107	15.36599387	14.95838953	16.22056441	15.80909397	15.91600006	16.08103794	17.28952864	16.94762442
ABHD10	15.70746348	16.15592964	15.9594148	13.24128677	15.2625192	11.95225377	12.52180454	12.35527763	12.26390768
ABHD11	16.43661084	16.02378773	16.03614076	17.86441519	18.09853803	18.07445496	16.78504642	16.39112811	17.17472952
ABHD12	16.9847752	17.03777981	17.06450636	17.15050626	17.57272372	17.32327847	16.34898915	16.65721317	11.70363592
ABHD14B	15.3577563	15.72393074	15.75858473	14.71036612	14.38657651	14.23634854	12.75097941	11.95150707	16.12409168
ABHD16A	13.5984203	14.1860542	14.40772674	11.95826852	12.62598172	12.00996231	12.5102737	12.3091755	12.80299582
ABI1	16.85439411	16.87295553	16.92499877	17.13432264	17.26973044	16.90870607	17.19631086	18.38446007	17.11368712
ABI2	15.79225235	14.86306002	15.26215128	11.51394988	11.64824974	13.60988848	12.33103184	12.94775398	11.81703819
ABL2	14.05669246	14.54281671	14.59666219	12.68426804	15.91075568	16.24184185	11.67713655	12.70143667	11.47225453
ABLIM2	12.36618525	12.4966337	12.54656349	12.67803331	11.71938923	12.77068691	13.18076112	12.69863007	11.73801268
ABR	15.59435702	14.70416199	14.7243324	11.62289314	11.90759066	12.52165035	11.39008729	13.77964742	11.12565897
ABRACL	19.83135153	20.20150169	19.98342377	11.18066803	11.08873575	11.59762634	18.33690824	12.62221789	11.15758148
ABRAXAS	15.20500704	15.64692625	15.60390801	17.83666432	18.07319659	18.18202054	16.72438801	16.22893271	18.09325175
ABT1	15.16706323	15.09813778	15.47018975	15.10585788	14.93028742	14.62041046	11.32359028	12.18237514	12.56821908
ACAA1	15.44944144	15.44113253	15.22927047	16.93092359	16.91758872	18.0326778	18.14083913	17.70036046	17.74524867
ACAA2	17.3730048	17.46755891	17.20103318	15.12343095	15.0159911	13.45417636	16.45070471	12.9867264	16.66123534
ACACA	13.66609097	14.17946788	13.92558774	17.9350215	11.92975132	18.26210218	19.65673198	11.78884697	20.67663368
ACAD10	14.59020579	14.44720987	14.65379512	12.47169852	11.73981659	14.18480776	12.38469664	11.23091911	12.80396311
ACAD8	15.5066436	15.81816948	17.260206	13.68918519	14.91011213	14.73744163	12.55542473	11.14220346	12.41501715
ACAD9	16.03542036	15.71483751	16.01451026	15.83630166	16.53524053	15.302301	11.90872642	12.38915842	12.0766401
ACADM	17.77340002	18.05907755	17.96293989	16.00511695	15.83118671	16.08034223	13.02613371	12.75728188	11.90393438
ACADS	15.91050884	15.72775068	15.90042973	13.9828684	12.57511085	14.44006087	13.08297882	10.90107659	12.54811589
ACADSB	16.32093217	16.77839276	16.30568039	17.48722699	17.13516211	17.22471549	16.36347308	12.23732695	12.76522524
ACADVL	17.23706355	17.17909139	17.28718629	15.81126118	15.96277698	16.11504494	13.86217815	12.73362496	12.21265028
ACAT1	16.72791089	16.24274434	16.28867551	17.52356411	17.57654727	17.93200488	17.54991147	17.53549774	17.89445683
ACAT2	16.6555282	16.64931931	16.56290729	16.03003837	14.88451351	14.28521889	17.89454656	12.49772036	12.10419424
ACBD3	15.89619078	15.9251225	16.11275107	12.00643438	13.06185386	11.63434057	13.72901724	12.91012662	12.52287571
ACBD5	14.48594363	14.85901256	14.62508578	14.05569687	14.43000985	14.04879978	12.7518374	12.84117051	12.61702382
ACBD7	15.770001	15.53536979	15.58428014	12.09575837	11.83771623	13.66336613	17.50013181	13.17994324	12.28916994
ACIN1	16.98851131	17.00365885	16.94764882	17.37331077	17.62476191	17.6158937	15.65537987	13.0716499	14.79147661
ACLY	16.75205117	17.14817977	16.83511669	18.31235079	18.49998856	18.50473617	16.83817245	18.18730684	17.24857592
ACO1	16.42779436	16.40428311	16.56297548	16.12852311	15.16323079	15.40416836	11.48079508	11.98135426	15.23785827
ACO2	17.49113978	17.15228773	17.37337253	17.89125553	17.69258603	17.19092832	16.71530348	17.37076888	17.18056208
ACOT13	15.84935847	15.6193042	15.61894619	14.39503373	15.41363375	13.94473308	11.91695086	13.07120997	11.17624322
ACOT2	16.60698947	16.86164436	16.71024403	17.08980563	17.08877858	17.22543931	18.00931772	18.64056666	19.07497513
ACOT7	17.80056966	17.62084947	17.91885316	17.16378048	16.49317319	15.47349684	12.19969931	12.9954782	13.70665739
ACOT7L	15.8631184	16.6239404	15.96945228	11.76333603	12.34917568	11.95050692	13.28712821	12.43102203	11.51581035
ACOT8	16.24480102	15.59959866	12.64964961	14.36573221	14.19599681	14.29583265	13.1136232	14.16365008	12.66614962
ACOT9	16.38300602	16.34015691	16.45759108	14.0567372	14.00396597	13.87354469	16.49221947	16.70347122	11.10736499
ACOX1	16.49351909	15.6931244	16.97301225	17.87930666	17.93713217	18.3482886	17.59209643	12.55075984	12.36025817
ACP1	15.65714208	16.28653718	16.20429636	15.66336524	15.55813805	16.25383653	12.02272812	12.78952663	11.91620453

ACP2	16.20080135	16.35127908	16.71522458	11.61786866	11.93528685	12.65559622	11.35305188	11.38967604	11.88020485
ACP3	13.57476178	12.83071149	12.51187702	22.02654526	22.12170405	22.04565906	21.31139904	19.26009225	20.0401682
ACSF2	15.63244525	14.92598535	15.74886667	16.10916424	15.63428796	15.72294365	17.26846472	16.96696988	17.77542352
ACSF3	14.11087719	14.88895527	14.96747842	12.75635528	14.59815005	14.77905549	12.16075646	11.7565266	11.68137342
ACSL1	15.95204995	15.62782298	15.74341751	16.73623583	17.09394885	17.03108968	12.2410213	11.33224436	13.54410049
ACSL3	15.17254602	13.20586409	15.02104206	13.21883766	12.94354085	12.37735623	12.67559218	12.19512841	11.80184969
ACSS1	15.20765103	15.07072975	15.00513942	17.3484013	16.93293073	16.8973736	12.18273868	17.93072321	17.47801798
ACTB	18.03574989	17.71495619	16.95305813	16.85952698	15.52073292	15.34389447	18.71372977	12.28742403	11.90512048
ACTBL2	22.83022107	24.0114414	16.26891286	18.48318416	18.38283269	24.5224014	28.71271702	19.32291422	29.17539005
ACTC1	20.56762804	20.60334379	20.49574079	19.37244664	19.30424077	19.07534369	26.76179236	26.76545807	26.97820412
ACTG1	23.84757937	24.05117769	24.09857869	24.52544732	24.26009177	24.28072392	25.92651884	26.00727924	26.13250143
ACTL6A	16.47230945	16.90786603	17.2403133	15.51963791	15.63744421	14.2606372	11.82338027	12.24937418	12.65275874
ACTN1	17.10447362	17.06644572	17.15129472	16.98262928	17.48415368	17.2745325	16.95046883	16.95111673	17.66517593
ACTN2	16.63937749	17.32172333	16.94685142	12.53837803	12.19569545	16.33367606	12.82835809	15.13031132	11.58700733
ACTN3	14.56074214	15.16075283	19.13265945	15.98224659	16.02286801	16.53944893	12.30872035	12.22989902	11.89496114
ACTN4	18.09334392	18.0774858	18.017657	18.4405064	18.31565491	18.39306249	17.91710059	17.69019278	18.11767294
ACTR1A	16.51848736	16.43393156	16.78490535	15.61504201	15.50152046	15.86732901	12.93390214	16.29487701	11.39248839
ACTR2	16.59011323	16.43881284	16.55504693	16.87166278	17.01832718	16.96043006	18.33018988	18.82993492	18.45333923
ACTR3	16.46326615	16.52291377	16.46409751	15.43634374	14.91670442	15.44340944	16.86992443	12.48062378	16.83394836
ACTR3B	17.51371365	17.9124333	17.50333761	18.78686125	18.59644267	18.57228395	19.12383042	19.28060231	13.88286606
ACYP1	16.91988255	17.33557454	17.096248	11.27234577	12.59990981	13.06561819	11.68655139	13.05618807	13.82437297
ADA	14.99304421	14.80819602	13.1482174	12.27101783	12.11579148	12.68087293	12.17634512	12.17192772	13.25363368
ADAM17	16.58278385	16.45470578	16.80291941	17.1841959	15.26696748	17.5511058	12.98885054	11.66773892	12.09370953
ADAR	16.61099115	16.40771568	16.67452119	17.77225408	17.8785603	17.75655875	15.96954687	15.73607429	17.07540568
ADCK5	11.51975091	12.61340559	11.67523363	12.14487759	11.7276046	12.0149701	13.09260467	11.60520822	12.22998837
ADD1	15.19905547	15.26701236	15.53383298	19.65123537	19.6141713	19.59793001	18.64121101	18.15358958	12.90133392
ADD3	13.67790936	14.19137582	12.96951875	18.86887579	18.88936876	18.80773352	19.3319206	18.72810119	18.97290686
ADH5	15.67557238	15.75682513	15.40254019	17.93750482	17.81394727	17.79415173	18.10489719	12.48706897	12.34029246
ADI1	16.13010062	15.35026252	16.23886599	13.72913879	11.75516928	13.50985039	12.40991921	12.41564364	12.25485533
ADNP	15.70804772	15.7640537	15.86568641	15.4894999	16.19251518	16.16522469	14.45451158	12.79964784	13.92533896
ADO	15.76646335	15.77520257	15.45012116	17.56196345	17.69229723	17.44817695	18.08218429	18.61258886	19.39936808
ADPRS	16.95273876	17.09667258	17.04025223	16.62480364	16.70088715	16.46648308	12.52760542	14.7398685	12.90058599
ADRA2A	16.13754891	15.86244688	16.11048639	12.62313245	12.23676047	12.4057268	12.57731773	11.6830498	11.88254088
ADRM1	15.8841777	16.19103754	16.23114008	18.10757147	18.39814854	18.49161659	11.82912339	12.780336	13.0981072
ADSL	16.25696499	15.91396621	16.35558686	12.66256078	12.34234759	15.08341546	12.83603873	12.31339488	15.33589273
ADSS1	14.49057583	14.11461592	13.68195604	12.17586854	12.83312179	12.49061292	12.63652573	11.12663902	12.33276063
ADSS2	16.59086403	16.46136701	16.54093337	15.54325435	16.08387074	15.99155417	13.31051538	15.84074094	12.61517678
AFDN	15.75547428	15.80209104	15.65400895	17.80657853	17.55179671	17.64187477	14.40040385	15.20335098	14.93081261
AFG3L2	16.18494257	16.44373655	16.6200744	16.32947177	16.71905211	16.71766037	15.14314364	12.24223686	13.87818619
AGA	18.18022613	18.34835752	18.34379724	17.84459554	17.63927394	17.9619552	13.08853875	19.33042737	19.28646931
AGAP1	12.53528909	14.97723336	14.83440931	11.75143083	13.30153726	13.31672476	11.81471016	12.75821735	13.65610959
AGAP3	13.80700323	14.49823667	12.30526373	16.34441793	16.40797602	16.35857524	12.74348815	12.91400457	12.12637324
AGFG1	15.98025186	15.99395979	15.593375	16.84599547	16.71810224	16.93674535	10.97666579	13.13659469	17.66527855
AGK	14.12918063	14.36549345	14.89047901	15.49078366	12.55578727	11.73644713	11.89084826	12.08413852	12.75018941
AGL	15.22348559	14.89683393	14.99937602	14.37738851	13.1368183	14.82233128	14.37642348	14.61469219	14.58448484
AGO1	14.5646799	14.5835655	14.21703342	18.04626945	18.8443386	18.86099268	20.41850744	17.82136969	19.52310587
AGO2	15.87158699	15.8185618	16.04311384	16.21104253	16.17239148	15.75977306	12.78823143	11.86530989	12.15058122
AGO3	17.28591653	16.52203049	17.61433704	11.52299691	12.01492022	11.79707143	11.99915938	11.6047803	11.66513156
AGPAT1	16.47762022	16.33580606	16.5961457	11.44556624	11.30615882	11.82169151	12.41905893	12.23111192	11.97259176
AGPS	14.3170565	15.74874649	15.59122977	12.32091349	16.5095027	16.50332874	12.97710153	12.0316801	12.18639525
AGR3	14.55429551	14.66588572	14.57391712	19.38461008	19.47759556	19.35771014	22.99951883	23.09180833	23.21880906
AGRN	15.50300833	15.69503501	15.31812088	17.62985493	17.66273278	17.82883121	15.78942666	15.43490575	15.86543299
AGT	14.32521823	14.28440856	14.51477859	12.65052065	14.8295873	14.64129155	11.58184089	11.6586584	11.72261007
AHCTF1	15.41332864	15.40027963	15.87170925	12.24255455	14.05532773	15.53823902	12.12116204	12.17731124	12.60088836
AHCY	18.78506848	19.09859046	19.09263964	19.04288083	19.28626857	19.0701124	18.3430459	18.10472224	18.51981488
AHCYL1	16.17589652	16.16551793	16.24755303	17.20549895	17.38272426	16.7585806	12.90594483	16.37255267	11.87672474
AHDC1	13.98527041	15.02824551	14.17762566	14.25890477	13.84090319	14.1427705	17.05287842	16.51949467	13.25832568
AHNAK	13.94898258	14.16389106	14.10000784	18.71235893	18.6325951	18.80243899	19.74641172	19.23983824	19.84924009
AHNAK2	18.00143397	13.90658505	18.23272694	20.28017444	20.38498952	20.41926158	18.6285556	15.26260163	19.1051535
AHSA1	17.61196183	17.46567803	17.67477936	16.13606656	16.20365369	16.68722706	15.21538625	15.001021	15.23683587
AHSG	15.87709967	16.02106473	15.40987374	12.80849943	12.64730226	14.57794806	12.68569587	12.67904856	12.32685079
AIF1L	15.16689054	15.1581909	15.05961746	11.48711492	15.7585537	11.72825105	13.31599673	11.85198878	12.78560255
AIFM1	17.2220691	17.46690113	17.31098557	17.31185101	17.93085616	17.81566465	16.57321539	16.32555952	14.78270991

AIMP1	16.56613415	16.75340863	16.43397749	18.02944736	17.04052733	16.94392378	18.82887132	17.24445208	17.57879314
AIMP2	16.29595567	16.1332922	16.33218243	12.87980596	13.35098474	11.67589222	13.05918208	12.65159945	13.46330587
AIP	17.79747765	17.93215522	17.79000876	16.76812421	16.87759942	16.5764021	11.68095687	16.37536869	16.04647593
AK1	18.07795182	18.08836695	18.1357391	16.12817044	15.97659953	14.91240859	12.49604024	14.89716957	15.60549852
AK2	18.87332313	19.09781907	18.90340771	19.76923318	19.73593621	19.77832966	20.61502555	21.00040068	20.29538298
AK3	16.09431357	16.77330348	16.81834208	14.42780549	14.81578507	16.72412533	12.25898312	14.97790785	12.87773228
AK4	15.99733281	16.47818671	16.65719504	14.21379794	15.46853061	15.60217506	12.0396535	12.67717287	11.14277872
AK5	18.02516126	17.80288112	18.03496696	16.34272958	16.15249517	16.51081919	17.23591603	17.81031754	12.21640624
AKAP1	15.75019529	15.65427709	15.81642965	11.39364678	13.36169857	12.4510798	12.52518433	12.70597101	11.96462593
AKAP12	12.52312785	10.83516084	11.00173496	18.03212117	18.49552983	18.62961872	17.12090714	16.62232454	11.42732767
AKAP2	15.49163191	15.50972297	15.65083964	11.93885613	17.82509432	12.49783227	11.8470627	12.09176003	16.71507133
AKAP8	15.54045318	15.70436729	15.56073403	16.40731523	16.61323429	16.90163064	12.6349711	12.73473052	12.35563344
AKR1A1	17.11233361	17.18099153	16.75362891	18.43113673	18.44705119	18.49893896	19.30003081	19.39126781	19.31078312
AKR7A2	16.6624687	17.23724371	16.7489751	15.10659155	14.68353947	11.45761288	12.56027791	12.0076135	12.16774272
AKR7L	17.42609763	17.14598649	16.99087799	14.94762702	14.97842011	15.2554751	12.01600683	11.37064191	12.46280773
AKT1S1	14.18849306	14.93795878	14.12234843	15.34185151	15.46245419	14.54357233	12.94952277	11.81040444	12.04915881
AKT2	13.79469223	13.5191931	13.31194727	12.92434013	14.43475243	11.66921483	12.519159	13.05233117	11.90881755
ALAD	15.75894668	15.7576768	15.847499	16.90325026	16.32976215	16.90592367	17.87891148	12.59374729	16.65846061
ALCAM	17.22960395	17.26501508	16.62643167	18.23350721	18.43106035	18.43029555	15.19322051	15.55117045	14.21342045
ALDH18A	16.58320679	15.92592929	15.8245643	14.51499661	14.53497782	15.19193247	12.10310681	11.8582082	13.77377726
ALDH1A1	16.87756636	15.41995166	16.74415005	13.55934682	12.54576627	13.43790964	17.52815244	17.74989871	12.27908807
ALDH1B1	15.35491553	15.92135214	15.85811291	12.324162	11.79367024	11.80208737	12.22586904	12.6849868	12.48014965
ALDH2	15.26015021	15.42664225	14.88620754	13.94216083	14.09685398	13.98675417	16.39859435	12.29459053	15.49058143
ALDH3A1	15.96560878	16.79174996	16.42261624	13.28672569	13.21803333	12.91307335	12.77885111	13.09705795	12.33773875
ALDH3A2	17.24697425	17.24819674	17.33191158	17.11649376	17.09344354	15.0908034	12.25629389	12.61187062	13.32705191
ALDH4A1	14.10296281	15.27715185	15.31634401	18.88361053	18.92280402	18.77660458	19.1859876	20.76424955	20.46187693
ALDH5A1	17.06005255	17.32857449	17.26779687	18.04565148	18.33813731	18.38645336	16.42988115	17.10075195	17.92893827
ALDH6A1	16.58614197	16.26973169	16.60673603	18.5238311	18.64414511	18.21972908	13.6480805	14.7224193	15.41243429
ALDH7A1	14.77759651	15.38005696	15.32076386	13.90292455	14.0388306	15.2911055	18.14361599	18.98512466	19.34805569
ALDH9A1	17.08404079	17.2803653	17.21143068	18.12421473	18.27690435	18.28819809	18.92899059	18.16986066	19.11012527
ALDOA	21.07255718	20.94482752	21.12010814	19.18041637	17.6949183	17.58958123	19.36871401	19.08085318	18.94229496
ALDOC	18.77984913	19.41587082	19.29324859	17.80339831	17.59201764	17.15516415	17.94434058	18.77850143	18.01558722
ALG13	13.33480476	13.16170788	12.73513951	12.36007665	11.98363786	12.91337143	13.3182362	13.06349675	13.55854105
ALKBH5	14.83631122	14.54207882	15.23233159	12.58251533	12.52405016	13.167492	12.31987151	10.9286498	11.66680737
ALKBH7	15.52499962	14.11511214	14.06527603	14.49978674	14.4662639	12.0067842	12.55794029	11.52437475	12.77008088
ALYREF	19.48260835	19.49260328	19.53049532	19.78748996	19.45214032	19.50566597	19.73154229	19.85663912	19.87257289
AMBP	14.92091971	15.02168021	15.11377382	16.66799274	11.96116284	16.62111842	12.18752785	18.12540352	17.93966323
AMOTL1	12.597492	12.28480489	15.90710642	13.58546687	13.0249288	11.95602941	13.21663526	12.82396747	12.83497822
AMPD2	14.15137816	15.41721692	15.56440619	15.23600699	15.49129653	15.89988144	12.22127864	12.82427346	12.20956041
ANK1	15.45481664	15.5076032	15.50131504	17.7719955	17.47315537	17.17583498	11.60760055	12.50210292	12.21191596
ANK3	14.19607574	12.86020746	12.52783671	11.67338989	11.99641063	12.00881024	15.46233262	11.76061036	11.93625533
ANKLE2	15.59255011	15.05338691	15.58108639	16.22466842	16.32989339	12.98079647	12.3016464	12.70980392	12.44497909
ANKRD17	14.51749815	13.43612209	14.29825276	11.99871548	13.46655042	14.40059747	12.55656245	11.4645675	11.52447031
ANKRD18	16.62687694	16.83281585	16.62872989	17.10749836	15.23671399	15.47476978	16.07232986	12.39524485	16.08263033
ANKRD18	15.95580306	16.08924998	15.0058979	12.38800906	12.60252766	12.45261602	13.50316786	11.32511251	11.67250583
ANKRD34	12.37885442	13.44316054	12.98993497	20.97401014	21.0058304	21.90018427	12.93197132	11.4466297	11.91195512
ANKRD50	14.70385818	14.54170973	14.78253299	12.61278879	11.45174443	15.13602906	11.63718747	11.53031452	11.77033846
ANP32A	17.56366188	17.91859154	17.8621303	18.98858277	19.42273744	19.47389624	16.05909484	16.7138809	16.01489713
ANP32B	16.05544244	15.73345996	16.16450939	11.89439808	12.08241707	10.79167251	11.98860462	14.92202731	12.15371996
ANP32E	14.57265042	15.24726551	14.91574625	21.11318219	18.70292534	19.98635208	16.31233988	17.80361539	13.25938207
ANXA1	15.72437629	15.99108048	16.01313639	18.62017349	18.68010298	18.67412912	16.48532694	17.24454848	16.24680405
ANXA11	18.16541795	18.41976013	18.27703297	17.25565422	17.07488984	16.85825818	18.50080139	14.70362706	15.20543641
ANXA2	16.96774008	16.83313447	16.75163959	19.54959155	19.37702934	19.25252192	19.69747127	19.97783772	18.60788013
ANXA2P2	16.54530716	16.66337238	16.30698543	19.42863501	19.54856478	19.37781103	17.79776973	18.02492164	18.14579549
ANXA3	12.29649038	12.92278325	14.81432179	17.1322868	17.26800892	12.57026803	12.13701423	19.3881313	12.08503156
ANXA4	16.03305945	16.03055253	16.34026216	17.55153532	18.03808543	18.35426329	17.94958646	17.19462812	15.67679738
ANXA6	15.70463684	15.30948523	15.62548957	18.10328564	17.63014181	20.87192215	15.75666933	14.6358181	11.56152484
ANXA7	17.20199812	17.24852255	17.31607157	17.77792661	18.7520563	19.17424248	16.6557597	16.65368566	16.91436187
AOC1	14.18682803	13.55918348	13.61161174	17.61836024	17.51169096	17.41584236	11.65817219	13.12672486	12.43317944
AOC3	13.40305741	12.69721766	12.15385236	15.74569257	15.47703276	16.34937215	21.68902926	21.82020898	22.10304465
AP1B1	15.74858277	15.53069463	15.21702862	14.64422455	15.57960847	15.25944481	15.27537205	12.55146748	16.28241455
AP1G2	14.34660255	14.34937707	14.59679129	11.78586436	11.7871803	13.31120255	12.72023246	11.26305067	12.29143483
AP1M1	13.84220343	14.55495144	17.44921791	13.85977005	13.7475924	14.24893726	12.84334469	11.81580108	12.26381007

AP1S1	13.2480569	14.76683642	14.74112034	15.45134908	15.86118518	16.19829144	11.31988025	11.17759518	12.81572721
AP2A1	15.70570932	15.44507856	15.78561901	15.00770575	14.8004258	15.1882107	12.76856295	16.25009703	12.5993086
AP2A2	15.0783385	15.50018722	15.12809518	15.8097837	15.42996088	15.71815833	12.77101621	13.93908078	12.48537027
AP2B1	16.83298267	16.72324941	16.86713294	16.75372689	16.16014422	17.28844022	13.15563312	15.74762114	12.75011129
AP2M1	16.17126982	15.8508808	16.29646024	15.01559988	16.22305974	16.15060577	12.37770518	16.1433669	12.04063109
AP3B1	14.7511675	14.42692332	14.39599432	15.88308677	15.92039193	16.32158935	12.33842064	13.11967513	12.0300656
AP3D1	16.37406629	16.7581177	17.13888977	17.00007694	17.74506539	17.39926527	16.89904539	11.78954123	18.07200976
AP3S1	15.37020791	14.76886067	14.65778811	12.02893982	13.09596613	12.00236827	13.06958494	11.67804522	13.37177913
AP4E1	14.89463717	12.33555058	13.47251788	12.08717719	12.17584254	11.17440616	11.67569194	12.74482623	12.48620333
AP4S1	12.8869422	12.44534643	13.11330465	12.46281592	11.40529803	11.96504859	11.72524301	11.48476453	12.24515254
APCDD1	12.67803053	12.75585043	12.17319994	18.86642114	18.27704195	18.97787566	11.6074915	13.34463523	13.60128439
APCS	13.9315841	13.88127568	14.77152757	17.90187181	17.24377995	18.09495134	22.4994105	22.51336112	21.69975752
APEH	16.35212375	16.32871569	16.50175747	18.87034428	18.80364609	18.71393808	12.82217052	12.85134141	11.63972916
APEX1	18.08719679	18.27456851	18.20998173	19.18579069	19.04153604	19.05243061	13.24484105	15.22179567	12.49557753
API5	17.09476681	17.15930441	16.75048204	14.76783374	15.07168804	14.83324527	12.76093284	11.87927014	12.38175106
APMAP	18.27619179	18.17162791	18.30039764	18.87316551	18.68185436	19.06571865	17.57388861	17.63871834	17.84305386
APOA1	16.1215918	16.57127513	16.17178823	13.06391823	13.77247527	14.34939794	16.69215042	16.7079646	11.97179646
APOA2	14.92894209	14.85086293	14.87991976	12.33763009	12.09812892	12.97655011	13.46833108	13.09687586	11.64015445
APOB	13.81330576	14.01589228	14.16633596	13.76785779	14.87396792	14.08260898	13.11583523	12.46197093	12.08652469
APOC3	16.52946107	16.57506236	16.75649652	15.69434093	13.13533071	15.81250796	15.99386901	13.22241583	12.56005459
APOD	16.2817975	15.00583262	15.64879484	19.06891427	18.90027714	19.09047612	11.82991062	12.03387373	12.2052308
APOE	15.4093231	15.7354543	14.66285479	15.79013224	15.68633025	15.16577884	16.19143245	16.37682071	16.08277668
APOH	16.76016969	17.014504	16.28067257	16.39441067	16.4291097	16.52476553	18.75458196	18.58300169	18.73800028
APOL2	13.59587307	13.62345652	14.16644034	18.40949197	18.31328278	18.17610763	19.59179146	13.13059127	12.50463733
APOO	15.73815061	15.7876119	17.48029176	16.07176333	17.14278684	16.84665366	12.48828828	12.34095821	13.40944362
APOOL	13.86093842	15.16411073	14.33364328	16.08169614	17.48842353	12.45560076	12.31301139	13.19226304	12.57034505
APPL1	15.42548973	15.5378187	15.71068225	15.57164555	15.56913239	14.62548481	18.25784911	16.9538008	18.09309235
APRT	13.62634718	15.33371299	15.01215954	13.75733225	11.91012253	13.7610803	15.30116603	12.13067369	12.31229763
AQR	15.18966355	15.45690937	15.66774604	15.31361973	15.18414806	15.40307186	12.11454044	13.06638574	12.12426433
ARAP1	15.52691411	15.11851907	15.70547638	12.43881084	12.36279748	12.01626969	12.69367234	12.81399776	12.88469664
ARCN1	16.45030562	16.80270785	16.85372773	16.76019139	16.00165939	16.39337252	16.32798415	15.58884541	15.04710009
ARF3	17.74046426	17.82258367	17.7212568	12.49995574	12.61940808	13.47197409	11.35125668	13.12012985	11.67658414
ARF4	17.32851491	17.21001389	17.05076741	17.12935906	17.34077065	17.31523277	17.51269841	17.40943927	17.4723989
ARF5	16.46628487	16.47373045	16.59969286	12.82107282	10.9492889	18.99115341	12.07036517	11.88436786	12.45469794
ARFGAP2	16.62039271	16.70382938	15.95876457	16.61409502	16.85582189	17.27522497	17.94955119	16.01497994	15.66201727
ARFGAP3	12.88069596	13.40291301	17.48814228	16.91566768	17.06223226	16.80071147	13.35460542	11.87549528	12.60535715
ARFGEF1	15.11414546	13.57450091	14.08564411	16.3054	17.51818215	15.78919802	13.81871561	17.69008675	17.33826945
ARFGEF2	12.79548831	12.93065487	13.02019524	11.64880926	13.90747967	12.3277773	11.68220425	12.71977234	13.83329391
ARFGEF3	14.37070703	14.75765297	14.96534868	17.15428752	16.32560892	16.59575421	17.09066301	11.19536122	12.23734747
ARFIP1	14.14969155	14.84626931	14.34775682	19.05266345	18.91515659	18.89795006	19.88916696	19.68877032	19.45512091
ARG1	17.21634626	16.17337858	15.82565679	20.47337478	20.2127713	20.19237309	18.40846981	19.76757593	19.5414631
ARG2	14.27818088	12.10431344	14.36669325	18.81796941	18.58711242	18.54148201	19.24013852	18.63641315	18.07898145
ARGLU1	12.3345165	12.85816242	15.19794498	12.83943253	11.76171131	12.58257911	13.30091001	11.95766206	12.05214474
ARHGAP1	16.37309056	16.54048831	16.45056124	15.40579407	14.86764675	14.82222557	12.22286856	16.81089454	16.06742897
ARHGAP1	15.21944643	14.90987057	13.95419719	12.13602843	12.83423017	12.37179063	12.64398799	12.20079325	11.72291122
ARHGAP3	13.77026211	14.13930573	14.07893183	11.86797213	11.54008814	11.80925206	12.21260144	14.06631365	11.44010672
ARHGDIA	19.07413189	19.13282402	18.41030166	18.50668817	18.83681097	18.24860314	19.92799767	19.33450954	19.83663184
ARHGDIB	16.52307205	16.4552203	16.66147716	16.96376511	17.04767205	16.48168038	19.69115428	12.06836967	16.74689348
ARHGEF1	14.3464596	15.78142351	15.24880618	15.20915421	16.35938789	15.83401035	15.39192624	16.19040759	15.65949713
ARHGEF1	14.72581404	14.24241563	14.81848277	12.45283064	12.93557539	12.46113491	11.61013883	12.01354309	12.03492516
ARHGEF1	15.70143846	15.25212621	16.09113145	16.3477557	14.38023706	17.80519974	12.84615359	11.81701654	12.34723763
ARHGEF1	15.95987352	14.92745878	15.0423652	13.00413515	12.89349163	10.94229912	11.84276369	13.25199476	12.22178826
ARHGEF2	15.54875788	15.47893141	15.71127701	14.5095205	13.72245152	13.45272405	14.49148467	14.61964695	14.3766477
ARHGEF7	13.54796915	13.68207707	13.4660876	12.67490553	12.90800124	12.47824948	12.93629843	12.20237487	11.65168619
ARID1A	16.07102391	15.93231266	15.83391848	15.65708731	15.10343186	15.31211762	14.7011684	14.87670871	14.8854682
ARID1B	14.78137457	15.25734827	15.35314526	15.72891071	11.31120317	15.37923423	16.59000096	12.70702229	12.6952962
ARID2	15.54625253	15.36623881	15.67893906	11.60806436	12.9906797	13.36794065	12.54775237	13.49152293	11.60185484
ARID4B	13.81417434	11.76337756	14.33482018	11.31861988	19.43314684	13.20873602	12.51137341	17.60147661	12.31266039
ARL1	13.34742279	11.30716793	14.42559905	11.65877162	13.37596728	13.06566638	11.61804595	12.24081268	12.13913873
ARL10	13.34182043	12.73028536	13.49929468	12.73827375	19.64368856	20.11503736	22.79023909	22.16782343	12.00068327
ARL13B	12.02804535	12.61832729	14.20632832	16.87366083	17.18231036	17.24047975	12.04973444	13.54177472	13.53956232
ARL2	14.9115776	14.83230949	13.67103583	12.44457103	11.74750526	12.72426313	11.80074129	12.66981095	12.5758012
ARL3	16.3815139	16.0434689	16.33902697	15.93362017	17.08651403	16.85814834	13.01123775	12.11890679	14.89858624

ARL6IP4	16.23126231	16.46387697	16.59560749	16.78845815	16.61574957	17.35272085	17.74266557	18.01996004	18.61997161
ARL6IP5	16.57191208	16.94622149	16.07237387	17.54462697	17.36142222	17.92639559	16.84820214	12.93008545	12.65299202
ARL8A	16.14093213	16.16588106	16.49684985	17.1765851	13.75631322	17.02088194	12.55415793	17.6327604	17.91827077
ARL8B	15.65969279	15.86996749	15.29139899	15.70833653	12.38754599	15.90080616	13.15476733	11.45705938	12.34860541
ARMC1	17.8400779	17.07460659	17.01929496	12.8716401	12.49767207	12.6259672	12.34374563	12.20475233	12.33850937
ARMC10	13.46428375	13.39034213	13.63520836	12.76662348	13.0308912	12.98238186	12.35316847	12.75169684	12.54741684
ARMC3	12.80493222	14.25395236	13.21800031	12.87169155	13.08047113	12.23603483	12.26834883	12.96945623	12.03508169
ARMC8	14.84002205	15.16592597	14.13574354	12.79388048	13.8687022	12.35186895	15.9605726	11.87006333	12.83551113
ARMT1	14.07330291	14.27415559	14.06025422	11.42833163	11.95124568	11.92272151	11.67836019	13.17800371	12.66644668
ARPC1A	15.98499036	15.62648789	15.55241936	14.5068794	16.03632896	15.51350304	13.05514893	13.60980825	12.54142525
ARPC1B	12.26504155	13.34827758	16.31483807	12.33130063	11.9677685	12.30895103	12.37939809	11.29883461	12.0464657
ARPC2	16.36197787	16.06082247	16.27684657	14.89305559	13.69537675	14.95235992	12.21720333	11.18296379	13.33726629
ARPC3	17.84832912	17.57004761	17.53618481	17.02641134	17.19566559	17.20819985	17.25190905	17.07461177	15.62489253
ARPC4	17.59086162	17.64950187	17.89877628	18.00005557	17.69218348	17.97144039	18.07945743	19.91616149	19.82146014
ARPC5	14.49880574	15.07008686	15.63667199	19.65609869	19.30819613	15.26198345	13.11155057	16.23496481	19.6398568
ARPC5L	15.78768662	17.4478711	17.36842963	19.59722166	19.69007528	19.83307007	20.84078878	20.43584878	19.993292
ARPP19	16.8446548	16.75368472	16.72383011	11.70912998	13.06452583	12.65916582	12.33165075	12.86009477	11.9090306
ARSA	14.72511417	10.9721024	14.57496595	12.15477372	13.36661137	11.26000854	11.50512004	12.53326076	11.68760083
ARVCF	13.05119825	13.93948658	12.84111613	11.74591082	12.57611371	11.63857056	12.97131796	11.98983401	11.72979447
ASAH1	15.26708699	15.91519986	15.73711831	17.82863012	17.88300575	17.77990279	16.93616891	16.2723911	13.1434054
ASCC3	15.5997642	16.13143542	15.85754332	12.66451575	12.80794412	12.29373168	13.00660747	12.24955793	11.99756659
ASCL1	15.27072748	14.95114399	14.70247225	12.57505331	12.47352501	12.41122586	12.21850844	12.70771505	11.41250373
ASCL2	12.73561751	12.35962139	10.73363748	12.33521331	12.57097781	11.93875738	11.54763106	13.09519729	11.75304203
ASF1B	16.5179171	16.61297856	16.23877086	16.43692236	16.14412089	12.31553397	12.01847431	11.90537222	12.11368666
ASMTL	14.97485825	15.63129624	15.58274932	14.72795995	12.17118224	11.94722943	12.03300567	11.22150945	11.97876218
ASPH	15.70589876	15.89020014	15.93573409	16.09492782	15.67433551	16.12716168	12.48514734	12.26928365	12.05701979
ASPN	16.17191694	15.29189234	15.68212639	16.04626945	15.09453858	12.94707744	19.36644759	12.38277862	18.24177257
ASPSCR1	14.64680681	14.82011483	14.8799781	17.10824021	17.04590756	17.51831684	17.46553946	17.67460147	17.49962037
ASRGL1	18.36793862	18.38338504	18.61996518	18.0051499	17.9541764	17.95374732	10.70940794	13.39541376	16.93427179
ASS1	14.78377518	15.1369131	14.39145213	18.23403412	18.13821284	16.44357396	12.6410415	11.43508386	12.08866001
ATAD2	16.52850058	16.77259225	16.3114636	12.5772531	12.93856664	11.44537576	11.94092669	13.00748242	11.65051157
ATAD3A	15.9666973	15.88062245	15.76269575	15.30831701	15.36459006	14.89722366	16.44689225	15.48619871	12.1905448
ATAD3B	15.99362852	16.10928316	15.75148982	12.40081411	12.53317417	12.65954344	12.04944183	12.98372315	11.79701885
ATF1	15.1936621	14.9307183	15.09362491	12.89410815	12.12831032	11.69589015	11.82109708	12.03726884	13.75715716
ATG2A	15.02810094	14.59886708	14.7036235	12.74073763	12.33721634	11.56802593	10.9044421	12.06042958	12.87760978
ATG3	15.13875183	15.08893425	14.91880544	14.54461976	15.46608082	14.50641594	12.18657677	12.69257279	13.23221048
ATG4B	14.51922395	13.29364148	14.6627808	12.03760476	13.90498932	13.16878116	11.62035036	12.3123987	11.79197152
ATIC	17.28678047	17.20963131	17.21686769	15.56824708	15.03812662	15.67044379	14.80301517	11.74814747	14.1179922
ATL1	13.34537274	13.2189924	13.58777862	13.38420218	13.30937726	11.78856419	12.48252723	12.35277949	13.08150683
ATL2	15.22370196	13.37611094	13.81755997	12.84545311	12.72168493	13.77540054	12.04473129	13.01623016	12.06209371
ATL3	14.96018184	14.20952603	15.25750569	15.20704963	14.95974833	12.43850208	12.39129853	12.28942621	11.74049279
ATP13A1	14.64461109	15.04438106	14.95084127	16.77819199	16.6548279	16.61404467	17.63785036	16.79165663	12.39356356
ATP1A1	17.72436519	17.64862572	17.75413844	19.14169527	19.36526378	19.34949271	18.38364678	17.81329458	18.57441279
ATP1A2	14.58466968	14.62486846	14.98553406	11.77510453	11.99441479	11.7775609	12.73268092	12.16379384	12.76737576
ATP1B1	18.34583344	18.13845702	18.17598996	18.56852859	19.31854776	18.54375641	17.85420441	16.42544361	12.16158441
ATP1B3	15.00426905	14.33952668	15.015149	12.9448365	13.14815234	12.49211305	12.21450051	12.44660314	12.6736902
ATP2A1	17.14480953	17.2839866	17.31756252	17.6339956	18.28727828	17.89004622	12.28572494	17.87082228	11.96211714
ATP2A2	16.98541386	17.01880208	16.82856161	16.34902475	16.57341146	16.69432066	15.55751099	15.98679264	16.47182238
ATP2A3	16.12373748	16.35886095	16.17094033	15.34408402	14.36895788	12.74169202	15.77368426	14.22668414	16.28981494
ATP2B1	13.61790248	13.43512985	15.10837813	16.97585343	16.55218832	16.29706328	11.81232752	12.05660268	11.98815343
ATP2B2	15.74480932	16.02924304	15.97095701	18.67350449	18.88663839	18.97926582	12.54230924	13.15476046	11.73130318
ATP2B4	13.57327274	15.65083738	15.04934685	16.60420215	16.51381815	16.86751871	12.0470661	12.19503542	16.51147614
ATP2C1	15.4484761	16.51836097	15.59206752	16.20282669	16.36639105	16.26085049	11.38540855	11.51049147	12.69112163
ATP5F1A	19.73482234	19.81584767	19.7051768	19.89624345	20.12511047	20.1327803	19.55439408	19.64574345	19.02879172
ATP5F1B	20.56089793	20.64175106	20.56980486	19.74815887	19.74071856	19.82347421	19.7746114	19.61297681	19.28235967
ATP5F1C	15.66123863	15.52149915	15.78272268	14.62119983	13.40607449	14.57533589	14.49852905	13.61328909	15.1215052
ATP5F1D	18.76392751	19.07693877	18.76451293	18.87403046	19.59704256	19.12288474	12.10291806	12.54533129	11.20242551
ATP5F1EP	18.33470748	18.06332882	18.15243444	19.52034098	19.49563629	19.78005268	20.29820947	20.21702877	20.11207478
ATP5IF1	16.66535387	17.06309577	17.37221167	17.58196986	12.41148687	17.07764648	12.08264609	17.62157622	12.11688831
ATP5ME	18.88294951	19.19000162	18.73968104	21.48931289	21.43943817	21.70766074	20.9771625	20.94021166	18.43997743
ATP5MF	16.40734184	16.67569549	16.64521673	13.39495834	12.49252814	13.01385624	17.61258487	12.87508487	17.34373154
ATP5MF-I	11.71112779	11.55243953	11.72790553	11.24733255	11.59416248	12.66662213	12.04377004	12.63977699	12.44521645
ATP5MG	15.72940698	15.70646067	15.82562375	11.62138962	13.15551452	13.69681406	13.64201696	13.21783405	12.89308198

ATP5MJ	13.84562609	12.39026325	12.88690376	12.82937429	12.30601289	11.62141343	12.40495189	13.32731179	13.18592169
ATP5MK	16.18204567	15.35524887	15.24247215	16.02434969	15.99794393	16.66713704	11.64651648	12.52549057	19.9410685
ATP5PB	16.12385273	16.28097136	16.37778106	16.29436557	16.26361882	16.3288666	14.79973272	12.49509325	16.55371002
ATP5PD	17.19712946	17.04772931	17.19669615	16.3824758	15.54171122	15.5704561	11.8984925	12.15488583	11.72041485
ATP5PF	17.74390065	18.33980202	18.42353539	17.23543976	17.13688832	17.21119151	11.91698151	12.83806849	18.68102419
ATP5PO	17.92661343	17.93443327	17.92792169	17.70376885	17.75644621	17.69216074	17.51676408	17.40768853	15.39942256
ATP6AP1	15.34007689	15.36262571	15.82980356	11.89605069	12.87966956	11.26885002	12.10399396	12.34681541	12.53505862
ATP6AP2	14.45603063	13.00806526	14.10541413	12.00698348	13.34901325	13.00221675	11.99651318	11.32903139	12.89856353
ATP6V0A	16.35810329	15.11451913	15.87568283	15.56657211	15.50209918	15.3845494	16.17391797	12.51422913	17.38556093
ATP6V0C	17.64256922	17.33524714	17.15105051	11.77660612	17.64360937	18.306791	12.17504988	12.64950716	11.99736303
ATP6V0D	16.65459647	16.72666705	16.36476148	16.32708492	15.64645029	15.80426557	17.45246011	17.49898072	13.36785384
ATP6V1A	17.17211884	17.14513456	17.40122541	17.74421375	17.97555362	17.74693789	17.13491119	14.96479017	16.72207856
ATP6V1B2	17.19233888	17.17634253	17.18903953	16.61624599	16.49647186	16.34577295	16.18758061	16.48616549	16.40532123
ATP6V1C1	14.60133689	13.97950386	13.21403726	12.37278772	13.86777692	13.44419551	14.71412772	11.62293602	15.38928607
ATP6V1D	14.00363464	13.67983981	12.97804096	12.7791362	12.56901377	13.07545505	12.01062767	12.27123707	12.83214452
ATP6V1E1	16.41653576	15.64153376	16.14006396	16.12853073	16.82069626	16.19700223	17.24295746	18.5005027	19.10623377
ATP6V1E2	15.4084378	15.0915212	14.74192603	12.89233745	14.76962548	14.90556123	12.08840001	11.66202739	11.79846099
ATP6V1F	17.22470556	17.45507331	17.07399761	18.15658585	12.27368725	18.7442147	18.73823267	11.66246896	12.84787283
ATP6V1G	17.13058426	17.24232052	17.3484355	15.21138724	16.53168243	16.28237011	17.103223	13.05657711	12.3586777
ATP6V1H	16.35719474	16.60568298	16.51989009	15.38720198	14.92077534	15.59009059	16.13152082	12.49411279	12.17016581
ATP8A1	13.51345945	12.47361538	13.50931313	18.94038068	18.76412954	19.26945783	20.42305741	19.79581696	20.07983954
ATP9A	13.87818782	13.13126984	14.87914512	11.47439766	12.7656306	13.15533997	11.87073182	11.16087115	11.94601706
ATXN10	14.30964045	15.55767835	15.23748806	12.80675995	12.47355374	11.82922426	12.97387448	12.4513777	12.33443415
ATXN2	14.97583355	14.98206666	15.59721722	17.52348686	16.52884995	17.02209176	11.83691664	17.16356508	14.99664201
ATXN2L	17.3392373	17.26697335	17.3565975	17.92715973	17.44457456	18.03473783	16.01275061	16.19258382	16.32891786
ATXN3	16.83932027	16.29189234	16.63615329	13.65688568	12.90184935	14.88564024	14.58169496	12.43575227	10.65509185
ATXN7L1	11.53898397	11.95746686	11.77796071	12.78487798	13.06066861	11.79010522	13.15416427	11.15434627	13.61725995
ATXN7L3	13.71064892	13.72669343	14.74823919	14.55540761	12.92725132	12.57619195	11.94997092	11.69479189	12.6902887
AURKA	12.33611294	13.07768588	12.59410374	12.50157379	12.04938535	12.04599495	12.32441293	12.5406523	12.41925425
AUTS2	15.43946178	15.19839993	15.02777955	11.53138376	12.54963798	11.78431843	12.151399	12.54011514	13.18634399
AXDND1	13.32153804	12.40980589	15.39547495	13.41841868	12.34352109	12.57092197	10.88260145	12.06277296	12.54671465
AZGP1	15.09393258	15.29140259	14.71429477	14.84474466	16.62207939	17.26158268	16.6822773	15.82260346	12.39216738
B3GAT3	16.21793918	15.63893056	14.75999493	14.37101032	14.29159514	14.59026519	12.39899716	12.21506456	12.8137752
B3GNT2	15.17320707	15.33308927	14.08744594	12.0968247	11.86620613	13.35036883	12.57786527	12.26531254	11.66177914
B3GNT4	13.95426547	14.55362037	14.66055115	15.14914725	15.03769549	15.22513015	12.65800177	12.37164568	11.88436416
BABAM1	16.49609235	16.29435506	15.84393047	18.23477058	18.52450906	18.82146095	17.50467489	16.97728759	18.06722484
BABAM2	14.60236045	14.37445387	14.04563802	11.97686448	12.43130625	12.57992548	12.11886467	11.72431403	11.56947381
BAD	14.87460373	16.29680537	15.97948725	15.35800156	16.27069127	16.43905721	12.68116343	12.3049529	12.57361009
BAG3	14.86953916	14.97406712	14.61963883	14.23131264	12.13482194	12.39034146	11.72136163	11.63323876	13.35224386
BAG5	13.78020239	14.42955197	14.38667162	12.82631422	13.44513488	13.26794683	11.23113611	12.67951285	12.33401995
BAG6	15.84296585	15.70768541	15.70577033	14.06627725	15.5689072	14.25819735	11.04435219	16.40760615	12.2423561
BAIAP2	14.44344589	14.93692063	15.04484653	12.21277917	11.9469803	13.29615378	12.07424402	11.71247584	14.04411872
BAIAP2L1	15.3059622	15.2785895	15.52520061	16.54294127	16.21200608	16.35434089	12.59283016	11.537969	12.70861714
BANF1	20.07086909	20.24366468	18.23225819	13.53174444	11.96184972	12.34527203	11.52620134	12.85876051	11.77439441
BAP1	13.7704326	14.62982547	14.03383749	12.60866731	12.285155	12.0535817	12.67876718	12.09553171	13.14902609
BAP18	15.57606337	15.06059256	15.62668615	15.0244736	15.34311315	15.04953014	12.63983291	12.07212239	12.26932947
BASP1	17.5025953	17.33598567	17.34905639	20.01939055	21.20185756	21.39519296	17.06331716	13.23781628	18.33133872
BAX	18.15332145	18.73935384	18.73556226	17.69119117	17.31204103	17.72603172	16.61466784	15.39943328	15.66241424
BAZ1A	13.24928074	19.00127725	18.61545248	20.14580513	22.11965596	19.95014243	24.55134009	11.92378005	25.06543751
BAZ1B	15.58992003	15.82755792	15.86546587	13.37687101	12.52664828	11.69207219	13.43589329	13.19210539	11.89336856
BAZ2A	14.16959178	14.16781964	14.23102364	15.51871462	12.02337339	12.1778843	12.69196247	13.1357213	12.32571642
BBS9	12.51146477	8.918578491	12.04920914	17.48985516	18.01131652	15.96192708	19.80703478	19.88126429	19.35516123
BCAM	17.56900354	17.71263556	17.07594863	19.21181848	19.57106733	20.2385833	18.53629335	17.65637098	18.34439088
BCAP31	16.43229502	15.69710855	16.44587627	17.42882393	17.24555728	17.36946741	14.52049359	12.84653474	14.74519319
BCAS2	17.69693022	17.77903142	17.91769793	12.49294369	17.88721817	17.63884067	12.08246718	12.34373222	13.23701611
BCAS3	17.21402116	17.38540251	17.49659215	21.54416117	21.6942227	21.88553132	23.99398779	24.23535071	24.23570189
BCAT2	15.71833058	15.79534073	15.89524572	14.87669242	14.98891333	14.73224941	12.02319286	11.74461002	11.88197887
BCCIP	15.31431978	15.72784246	16.97833628	12.71525111	13.79471683	13.35551748	12.3398536	13.56489253	13.38162611
BCKDHA	16.27838414	15.97306149	16.45498059	15.92423888	17.30205333	17.0220493	17.66291891	17.20341656	17.09278096
BCKDK	16.43435292	16.10192924	16.17958634	17.3232961	17.12695319	17.13407433	13.32111367	12.07444721	12.41400657
BCL2	16.57117826	17.0587655	16.8616318	12.59415712	11.70963743	12.45488576	11.73992604	13.10892891	13.03840382
BCL2L11	14.5878899	14.65114109	14.68395036	12.38767936	12.07591145	11.57188063	10.9754408	11.91599177	12.04734875
BCLAF1	16.97627353	17.60836649	16.64403772	17.89353531	18.57586192	18.3383749	21.54225376	12.96540106	16.80616835

BCS1L	13.99184744	14.77812899	14.42287839	12.68105995	12.67237724	13.06944389	11.80303685	12.76355969	13.21279728
BDH1	15.9240541	16.30848535	16.33625793	14.7236656	14.05413895	14.29763619	12.08945868	12.81935343	12.70912967
BDP1	15.30287875	14.84659991	15.19187319	12.21764884	12.72655599	12.6092082	17.08155451	12.86962232	12.15369563
BEGAIN	13.66598406	12.63613714	13.56272593	12.65687816	12.2150898	13.06236952	12.29699945	12.62568765	12.43701664
BEND3	12.50721918	13.05937477	13.18567276	12.29571367	12.96004398	13.31086858	11.98290662	12.30737288	12.16991375
BEND6	11.81488365	11.94565905	19.68810646	11.52918692	11.3633406	12.68159754	12.64250337	13.52196237	12.58182315
BGN	15.7471791	15.52964411	15.69552122	17.43847112	17.47518288	17.74686023	20.05800052	19.89095709	20.55266963
BHLHA9	16.41595008	16.03442696	16.47819105	17.34615387	17.59900407	17.19284027	18.4906754	12.38623497	18.99753652
BICD1	13.34006278	12.52722605	11.58636464	13.01988856	11.37613726	12.65523068	11.23195764	12.52276492	11.82818909
BIRC2	11.75479127	14.45558035	12.31684564	12.93519388	11.87393738	11.98911985	12.98153413	11.57155136	12.26783602
BIRC3	14.09608102	12.49927847	13.80646234	17.04977391	17.64054419	17.59944535	12.4173868	12.08024623	13.03006598
BIRC6	15.36886436	15.70926726	15.54499211	20.24118197	20.5621375	20.45385514	12.23319427	13.77344776	12.52075307
BLM	17.6225508	17.80565054	17.91142035	12.44818522	11.53627473	12.99128431	13.46880664	12.14104445	12.54983378
BLMH	17.08736535	16.76638634	16.83369748	16.28699941	16.4003602	16.1347129	13.17340592	11.95028652	12.42370082
BLOC1S1	12.79420314	13.36124055	15.15822371	12.78706742	15.40566187	12.14000221	12.5905434	11.98587907	11.90796327
BLOC1S3	15.7041929	15.30986891	15.78132945	14.94114387	12.43414208	11.95227403	11.85780569	12.0926142	11.57557274
BLOC1S4	14.86397748	14.68237846	14.65872207	15.52389501	13.43385893	12.49911354	12.40638499	12.13509112	11.15408158
BLVRA	17.30782636	17.23913502	16.7815992	18.66032846	18.55544687	18.66279058	18.55289133	19.49337773	18.303391
BLVRB	16.15741112	16.74492799	16.14911519	15.90739382	15.89807785	15.75975366	16.7521277	16.30670012	16.24844174
BMP2	19.08267449	19.21952034	19.31658309	20.32083895	20.01565374	20.05844321	21.27887425	20.7761854	12.07341626
BMP2K	11.26542963	11.68237845	12.41006475	11.68631068	12.60498464	13.01073139	11.12354541	12.13233831	12.04466036
BMS1	16.09441076	16.07609516	15.75731484	18.6926558	18.92173054	18.98852707	11.57513689	22.68635524	12.97905292
BNIP3	16.6579429	16.37789536	16.75975743	13.16616559	11.19202175	11.97219762	12.72290148	11.56187628	12.43834295
BOLA1	16.18392691	14.32759212	15.48361163	14.46745697	12.80004896	13.8642857	11.8194323	11.88701255	11.64619226
BOLA2	17.94621563	18.22068804	18.05153839	18.05397818	16.57831074	17.19087951	11.80844274	12.45673686	12.76224233
BOP1	15.89590103	15.94171494	15.84440896	14.74223752	14.51769066	14.68330912	12.8743136	12.61117149	14.61702391
BORCS5	14.66424178	15.37440205	14.81669569	12.91106551	12.57785763	12.93067929	11.70580343	13.49437692	12.18951139
BPHL	15.875186	16.13184926	15.30168068	12.55464073	14.58862138	14.38895209	13.59899929	13.45719956	13.36000162
BPNT1	15.62056847	15.17945365	15.02808975	14.26104114	14.32372814	14.97406513	11.96828173	17.40553214	16.53456555
BPNT2	15.44473291	16.05968415	16.13558361	14.4690966	14.48355952	11.82945326	12.28746327	11.49983428	11.73227109
BRD2	16.11632692	16.0157129	16.16817884	16.06710952	14.86747318	15.02642503	12.35810991	12.19553643	12.33859571
BRD4	15.46125267	14.84617777	15.88469103	15.4365965	13.12056467	15.32502931	11.89467014	12.96323757	13.42259682
BRD7	15.15454953	15.27573772	12.35916947	12.9473448	12.41892409	12.56658915	12.80048437	11.81631187	12.15493495
BRD8	14.97480276	13.90339977	14.02323375	12.402427	12.83860639	12.25326281	12.38158285	11.67840572	12.06207479
BRDT	13.94587364	14.22279615	14.95425765	12.8207341	12.50405717	13.92645609	12.72597398	12.7386865	13.32515804
BRI3BP	15.87042094	16.49056068	16.41964915	14.58012005	12.54714084	14.97493461	12.03169329	12.45495596	12.77778495
BRIX1	16.67458857	16.68097459	16.06633843	15.2483609	15.371976	15.56765457	14.89290264	16.6547445	15.6763767
BRK1	17.27810593	17.16922258	16.84303287	14.54421653	14.16678934	11.71934562	11.61865236	11.31030423	12.2897569
BROX	15.15591238	15.05045174	15.25725253	14.26242861	13.95383368	13.04953382	13.40600937	12.49616944	16.06833387
BRPF3	17.67566	11.67805555	16.78121586	16.21240277	16.2711014	16.14618882	17.20035067	11.70868429	11.81593824
BRWD1	13.40055578	13.37044831	13.34435477	12.51856083	13.66289342	12.16335518	11.63992827	13.06404284	13.52273149
BSG	15.42977923	16.05165115	15.68536741	17.4465061	17.77347148	17.59879828	18.00898782	18.2844517	18.76510086
BTBD17	17.10326248	17.4115092	17.4798634	14.68604895	15.26594358	15.23580922	12.82598057	12.42424978	12.04555054
BTD	14.04006533	14.23439886	14.0605413	12.300627	12.0564958	14.42439362	12.89988149	12.01074181	11.78490345
BTF3	15.12213362	13.71380177	14.27465341	11.82824414	12.12856743	12.28911409	12.21196084	12.72513997	12.23416323
BTF3L4	16.8095393	17.1028177	17.04584764	19.13141102	18.96593019	19.04471913	18.59862104	17.06780228	18.44073125
BUB3	16.57159346	16.2467631	16.31420402	17.7054231	16.74883408	17.28436635	13.22342158	11.8644261	12.15963202
BUD23	15.08968158	15.38812465	15.25102802	17.39065464	17.73037644	17.18598998	11.74138909	12.78063004	13.5053979
BYSL	15.15752248	15.07638345	14.48032674	12.42837917	12.39947259	13.97580356	11.70661912	13.38635173	12.77399765
BZW1	16.50270648	16.96813437	16.77870885	12.00876558	15.945921	14.1804268	11.08412089	12.47771537	11.47414784
BZW2	15.43018127	15.17391186	15.49388269	12.14618948	12.90644666	12.15833981	11.70369284	11.84815898	12.16253061
C11orf54	15.34274755	15.53385351	15.85643672	12.25581389	11.19376769	12.39127506	15.32377885	12.4167479	11.99247653
C11orf68	14.88641136	16.25815388	16.50454222	17.10654766	16.88387007	16.37159792	13.10727536	16.6591876	12.37841586
C11orf98	14.39450295	14.08218006	15.21519589	12.10189952	11.97482457	13.05567198	12.74923672	12.28511957	12.11995155
C12orf57	15.72135986	15.76809119	15.51799969	11.60975633	12.97798638	11.91975887	12.17219478	12.05971614	12.15666076
C19orf25	14.73963177	14.48950376	15.1810221	11.79965189	13.98868	14.9245879	12.62175686	12.39214776	11.89670607
C1orf198	15.2797488	14.97208254	14.7626409	13.34342501	13.10514855	13.9553	13.67400066	12.07063963	11.335063
C1QA	13.76209738	13.71623234	14.61742629	12.23522257	11.9157198	12.06694777	11.74784353	12.43660018	11.94570334
C1QBP	17.11246728	17.88423314	17.34272193	12.77706481	13.31033935	12.20706502	13.28798583	12.31401763	11.29583272
C1QC	17.49394183	17.43233165	17.6022993	16.96204378	16.06017702	16.22209124	19.06474628	18.72199623	18.86683082
C2CD3	12.56414363	14.31897582	13.93392309	12.03174469	17.25396865	13.19606573	12.6992024	12.84462129	12.4469408
C2CD4C	15.18543814	15.3522686	13.06605384	11.64459616	11.21140034	14.2597186	12.62315775	13.68829106	12.9914753
C2orf16	18.20213176	17.90885136	17.95482179	21.87945651	21.68738906	21.91643169	18.57563752	12.17575028	18.8503175

C2orf69	13.70338944	14.00306041	13.56383575	13.54036796	12.68476611	12.49040298	12.92514973	11.96187053	12.42987085
C3	16.84919668	17.13052845	16.82408627	17.27517352	17.31832118	17.10668787	18.13312851	15.79805618	17.60813366
C4A	14.81194274	15.30384872	15.15519893	14.5578189	14.89380618	15.11315955	16.85218487	13.28794188	16.88410049
C4orf3	16.70055145	16.43600045	16.51718827	20.30364513	20.34557843	20.66043055	21.45302922	12.73860756	21.64570838
C4orf54	15.75601871	15.75741458	13.36926513	12.0697811	12.55571605	13.03381253	11.85730529	12.10314903	12.17159298
C5orf22	13.7389785	11.46207952	14.15089227	12.68694524	12.57118982	12.27768107	18.13138093	13.06168477	12.94369331
C5orf24	16.00644206	11.70142988	11.66889593	12.38996536	11.68874208	12.85413637	13.17213031	12.02592473	13.34099207
C7orf50	15.54440301	15.58623891	15.74323286	14.03791591	12.01000598	11.93548915	12.56180077	12.24331681	10.9921065
C8orf37	15.13482006	15.10640349	15.1321318	11.24331651	12.05859573	14.85719343	13.96661144	12.03559517	13.18492793
C8orf82	17.9172972	17.4806167	17.70391517	16.64406376	17.24500296	16.66203807	12.9545369	12.41947364	12.22918693
C9	14.94019185	14.63073674	14.38788564	17.77928309	17.78733848	17.66183561	20.21895897	19.14931844	18.68432642
C9orf64	17.1644897	17.47169756	17.24121192	14.37693571	14.8642873	14.71924971	15.51973378	12.24053809	16.52308429
C9orf72	11.93516074	10.62570974	11.55047181	13.48131717	12.45024701	12.55360547	11.28537013	11.71388944	12.1711015
C9orf78	14.95283266	15.21390507	15.38914833	15.01506788	11.92341483	15.03895157	12.34730874	16.42440383	12.37968186
CACNA1E	13.26930973	11.7853362	11.31814907	12.30633603	12.49302639	13.82854477	12.37524629	11.61400567	12.09607991
CACNA2D	16.12330217	15.78403936	16.40386465	13.74180427	14.21964714	12.19892235	15.76041299	12.47448028	17.12928721
CACTIN	14.45115526	14.0362294	14.46582376	12.77453662	12.76410379	14.24687136	12.33954531	11.85800216	11.18552138
CACYBP	17.1036215	17.2821074	17.18670923	17.13353003	17.13675445	17.06762655	13.47353257	14.14224843	15.0512113
CAD	16.68176159	16.80557286	16.68959811	15.49697179	15.73296568	15.67820256	14.04317181	16.09590721	16.24873246
CADM1	15.6567905	15.32693363	15.15458018	14.99126063	15.85836754	14.79923954	11.59167527	11.96596466	12.0575857
CALD1	15.78056748	16.58902929	16.78166621	18.42415254	18.33437581	18.27725295	22.00503066	21.45140489	21.54904936
CALM2	22.54725929	22.86950875	22.75042712	22.04530561	21.59285582	22.03455343	20.66198433	19.57972478	20.69609053
CALML3	19.63534643	19.54557043	19.57649694	15.24121396	15.63957466	15.76905324	12.46214337	14.54382823	12.08536742
CALML5	17.77175699	17.14544871	18.13816683	17.39811631	17.44244423	17.62512987	13.63651703	13.18703574	11.73871099
CALR	18.56128317	18.88340612	18.87696658	16.60474373	17.11947463	17.6210286	13.29587671	15.14207374	13.59150351
CALU	16.34821401	16.57148431	16.4894834	18.05010868	17.70833637	17.75277257	13.30948038	11.50541952	11.44492058
CAMK1	15.13735062	14.57305232	15.38684085	12.81466396	13.80676114	14.9254877	12.32875756	12.22334294	12.60183805
CAMK2D	13.77932723	13.9413416	14.82943007	17.06249596	17.35870199	17.71079655	13.21409124	18.0413126	18.06567077
CAMK2G	16.5730732	16.67594776	17.0446762	15.98095426	16.29243042	15.78279569	17.59818248	17.40014747	12.65815028
CAMSAP1	15.0760988	15.01692162	14.56662417	15.23372603	15.69050632	14.77811573	12.61892613	15.82362257	12.13648976
CAMSAP2	15.72344557	13.78180251	14.62601164	12.22654551	12.66618887	12.44698146	12.88919273	12.63726641	11.98415557
CAMSAP3	16.4010078	16.15626545	16.12923608	17.46500163	17.44107196	17.40132738	12.00986271	12.44540625	12.15359752
CAND1	16.40387675	16.48675313	16.42654612	16.53391748	16.44245116	16.05733455	14.24901638	15.0420262	15.18803757
CAND2	15.23231997	15.64348185	15.22960352	13.59948986	13.77993499	13.85142642	12.91383044	11.9577419	12.03886647
CANX	18.47035862	18.58289142	18.47585706	17.11114756	17.14773773	18.00568254	15.46685296	13.51844359	17.92920457
CAP1	17.39349414	17.32043428	17.56482837	17.67783575	16.66909191	17.00605649	16.2334852	17.33307315	17.45452726
CAPG	16.59761352	16.41019467	16.62272152	14.89612969	13.08377735	12.13327569	17.01405481	16.27803833	15.42684815
CAPN1	16.71126194	16.42205435	16.51883222	17.3502097	17.17575281	17.23351951	16.84612953	16.72794317	16.09327499
CAPN2	15.75265424	15.68122437	15.81386237	12.2819424	13.36914365	13.7646933	16.44716876	11.84044214	15.91106887
CAPN5	16.8355017	15.85856255	15.40170991	16.18879846	16.79625638	16.40905993	12.49532728	13.22062242	11.14412501
CAPN7	16.31597645	12.09828785	15.87956963	17.05771121	17.00995206	17.17916506	12.92010768	12.6444333	12.17957373
CAPNS1	15.78285816	15.60343006	15.86585336	11.59096293	12.12690648	13.48059396	12.8860537	12.73338806	12.96993125
CAPNS2	15.80125726	16.21184191	16.1091295	14.56173935	12.30121953	14.46542455	11.90945023	12.2762785	11.22081237
CAPRIN1	15.91562043	16.29032235	16.10544286	16.43431342	16.24236766	16.29082801	15.33375055	16.15918344	15.84933718
CAPS	15.3298146	15.76975069	14.38057614	17.29485788	17.92814212	17.21889065	12.39437127	11.74223034	13.26894623
CAPSL	18.05569165	18.23614636	18.05711452	21.31410763	21.64113924	21.41887763	25.11117005	25.05998007	25.14156793
CAPZA1	19.60081624	19.44607139	18.50151501	20.05295028	19.77873723	19.89913906	16.95120406	12.38388789	12.88984231
CAPZA2	17.17542473	17.21515847	17.20218478	15.91705621	16.609688	16.49573776	15.26105595	11.36169511	12.51572952
CAPZB	17.72725693	17.75669622	17.88995594	17.67861953	18.10526334	18.12432512	15.20221651	15.68894252	16.09908507
CARHSP1	19.10966473	18.89489576	18.9874982	20.05254241	20.09765001	19.78553409	19.67346546	19.0144282	19.581808
CARM1	15.47308039	14.99937598	15.4075023	14.1064745	14.78080379	14.39618529	12.3895965	12.30287909	12.68734174
CARMIL1	14.84130229	15.15127885	15.54063966	18.1165934	18.40405561	18.26542679	19.50926522	19.05644494	19.30792129
CARS1	14.73796536	15.22171656	14.55223297	15.26578665	11.66460313	15.80908039	12.7666046	13.37395559	12.43829933
CARS2	15.53506951	15.50402701	15.21046805	12.12524181	15.07644364	15.14163918	12.9882515	12.55562361	11.78352805
CASK	15.51389187	15.11521137	15.34983403	12.88292207	15.85731178	12.12957061	11.73687052	16.26258224	13.04813722
CASP14	13.33230943	14.24926397	13.376712	18.60532088	19.03021398	19.19352279	16.97522176	16.33274991	12.69570935
CASP3	16.78968569	16.88400795	16.91391964	15.95027085	12.45183039	16.5867036	11.95649408	11.59936548	12.97716461
CASS4	15.04678495	12.94008203	14.16889102	12.43233614	12.23573718	11.36843149	11.87961752	11.28973145	12.49733305
CAST	14.4830878	14.72653513	14.87439981	18.79125228	17.43712195	19.03298559	17.77463453	18.13332649	17.95387868
CASZ1	16.27647871	15.41908537	15.81772612	13.85959643	13.17581243	11.91313369	12.40960619	12.95613912	11.96078516
CAVIN1	12.6729496	10.67371359	12.78811837	16.81809897	17.38674894	17.82104141	13.35131213	18.17757598	18.79803537
CBFA2T2	15.04543824	14.47105806	14.2398624	12.30638178	12.13761862	12.46165808	12.29848542	12.95094736	12.07903984
CBFB	15.50044268	14.8868513	14.73106006	14.71208519	14.62082136	14.76322286	17.44685028	18.17992042	17.43640855

CBLL1	15.21444222	15.51231533	15.71341991	16.73895038	16.41823289	16.89404483	11.43755796	12.04186807	12.13815275
CBR1	17.81061073	17.9539052	17.91686836	17.731307	17.89410417	17.67439249	17.98794142	18.34353353	18.22127233
CBR3	18.80553162	19.3445674	19.51838876	19.0972588	18.93120462	19.14483733	19.41772382	18.68171689	18.38395131
CBS	16.24332553	16.45476565	16.17880633	13.89864017	14.20632723	13.84170967	11.94144919	12.70250245	11.5121926
CBWD2	14.65540639	14.22958337	14.10043323	13.51633131	12.45766313	11.45415296	11.81976281	11.89607761	11.71642817
CBX1	17.79855594	18.06368886	17.87062392	15.57576874	15.38743004	14.97855735	12.07061745	13.43991371	11.82390249
CBX3	19.02068147	18.8870297	18.85539388	18.84882523	18.88532565	17.91492432	17.22235071	17.03900949	15.43863397
CBX5	16.98113298	16.94902997	16.755954	15.72479894	14.99262354	15.51258211	11.38351047	12.66865049	12.01864126
CBX8	15.77810402	15.74283584	15.84634033	12.62892145	15.8253767	14.45860283	13.10397404	14.2595002	11.97189554
CC2D1A	15.83739449	16.09980229	15.71310382	17.15649848	16.97904404	16.74429226	13.32264928	11.73420559	12.28350934
CCAR1	16.84503351	16.69825114	16.95738976	17.26701671	17.40811658	17.69728795	16.20354164	16.59762334	13.28121155
CCAR2	17.08031056	17.1273414	17.16969117	17.72475521	17.14124805	17.25683687	12.93465064	12.14478921	12.19274093
CCDC112	18.33591401	18.49402849	18.26144027	22.8073081	22.89078093	22.63933777	22.8070585	12.76195894	26.02459715
CCDC115	14.90563273	14.86379839	14.58598492	13.11433454	12.19914804	12.07580166	12.66690505	11.74714957	13.31767823
CCDC12	15.07981251	15.16670109	15.4256475	10.85712812	15.22958512	13.18163224	12.59562003	12.8473073	12.32095451
CCDC124	17.47021378	17.52909422	17.49647438	18.52536532	18.22396107	17.92272122	16.98746738	17.00162323	18.69835139
CCDC148	15.05415631	17.29109383	15.42895279	19.60596789	19.83840082	21.08131302	20.70679935	20.4352682	21.22814257
CCDC180	14.25025907	10.75226065	13.68387744	11.96270039	12.30291975	12.16722801	11.70976076	11.72966445	11.31196938
CCDC22	15.65212816	15.93018331	16.18604176	11.41763066	12.99027235	14.29743761	13.34707074	12.17101404	14.52416412
CCDC43	14.7708055	13.1325761	15.30360382	15.20307302	12.49110056	15.19909303	12.44745581	12.6895751	11.84625892
CCDC47	14.47012789	15.05140973	15.03206288	14.52431127	14.26795412	14.31911592	12.84639692	15.64028059	11.91024809
CCDC50	13.34844054	13.42131157	14.73831053	17.34189295	16.71842976	17.50295397	12.30264869	12.53662812	12.19148117
CCDC51	15.42700371	15.64019299	15.48333934	11.89164579	11.88172726	12.86844042	12.39316882	12.60211846	12.28961184
CCDC6	16.0546114	16.19187672	16.22209693	16.42958566	15.74794603	14.74261741	11.85317127	18.23207242	11.58504046
CCDC85C	16.07585739	14.66184117	16.17086938	15.14550609	14.99576188	11.97366977	12.80599294	11.87312346	11.99948027
CCDC86	16.98653685	17.08098767	16.99098505	19.27890424	18.84173175	19.28369437	18.14141808	18.27983599	18.8396011
CCDC88A	11.80510291	13.72119426	12.00122813	12.88951317	12.33370162	11.91095204	12.79454031	11.99161223	11.89748782
CCDC88C	13.59900441	14.30878479	12.53114008	12.25342962	12.98292924	11.77291398	12.67814281	12.03030342	12.96407708
CCDC9	16.2104059	16.18759436	15.92401777	16.30065875	16.50071864	15.77846566	12.93078916	16.25753105	13.05122566
CCNB1	13.82986322	20.39728681	13.30194199	12.27808392	12.9184659	11.78760744	11.93919169	11.33799829	12.05052093
CCNK	14.54163989	15.30607635	16.15622792	11.55281285	11.13475038	12.84183049	12.99471787	11.14051011	12.00820576
CCNY	12.05951547	13.84249283	12.93032157	12.64535152	11.24704143	12.52846277	13.0563194	12.69185791	12.18950691
CCP110	13.47034875	14.10649084	14.41474898	12.90396525	11.82986079	14.64084209	11.71969959	11.55536518	11.22175735
CCS	16.70445186	16.65258207	16.67008175	17.09986882	17.11067107	17.47855938	11.52051388	14.3296312	16.51538483
CCT2	17.0470288	16.91883238	17.23348438	16.20792469	15.50223489	15.84542382	14.72684137	14.09927743	14.64522572
CCT3	17.81916166	17.70059128	17.89506239	16.90727355	16.99597098	16.91460824	15.85107955	16.82865632	16.56710294
CCT4	16.48949078	16.52941421	16.38410822	15.426508	15.81798314	15.28549485	15.10932019	15.58984342	11.83699723
CCT5	17.579047	17.55443679	17.73650264	16.82269456	16.49427611	16.62962372	15.73378863	15.70109679	14.30897633
CCT6A	17.4928904	17.76911732	17.66094941	16.03832758	16.57767539	16.99568756	12.80719074	13.69458601	12.61043125
CCT7	16.80627707	16.93654817	16.87728145	16.31816505	16.21592106	16.04034674	14.23573232	14.0859222	15.14143372
CCT8	17.39224719	17.57285724	17.45599601	16.91801163	16.76341691	16.75215001	15.81188888	15.64798451	15.07633163
CD14	15.00360473	15.61609796	10.67370632	12.92471386	12.13019193	11.93779552	11.92517451	10.98803828	13.67178565
CD163	13.08683833	11.95608817	13.54852966	16.24174162	15.73328057	17.2677532	12.14897469	15.33670693	16.17578364
CD2AP	16.5101939	16.45040927	16.50463658	16.94716958	17.06909941	17.02960136	15.27508264	12.75135829	13.18394145
CD2BP2	15.02480398	16.33740179	15.63708003	16.8347814	15.75648526	15.77098377	13.04349856	12.27285205	12.90484363
CD44	12.47528144	15.44793389	12.09874546	16.82439308	16.71305317	16.08626554	20.39794036	20.43475193	11.92961687
CD47	15.45125719	15.30230647	15.40773165	16.91886511	16.93204056	17.08912029	12.1836809	11.19564136	15.33972999
CD59	12.05783185	12.37751946	11.59853899	18.51979174	18.50024993	18.50073038	13.39219353	12.6206808	18.58603436
CD9	16.33632196	16.0157129	16.29019676	16.93070875	16.92245885	16.96692232	12.89765876	12.63788667	13.08912411
CD99	12.95738125	16.51203275	12.74705866	17.32014514	17.11361427	20.61534996	20.89972311	20.51541108	21.20705031
CDC14A	12.12598461	11.47591771	13.35544559	12.22497745	12.46542894	12.71704945	12.65367847	13.39394642	11.92197476
CDC37	16.13753239	15.94358743	16.85437525	16.99635927	15.09455623	17.14342507	11.5735945	12.7264205	12.80304918
CDC40	16.88955427	16.24035306	15.8616318	12.57220344	12.80206227	12.69862807	13.30764811	11.30167136	11.57718468
CDC42	15.72787412	15.61629383	15.57816672	12.24693741	14.37609973	15.17136708	12.59135205	13.24632685	12.47928056
CDC42BP/	12.97603546	12.46696501	14.86062152	15.33785207	12.53565476	16.39548608	12.63977589	12.88918098	12.71536242
CDC42BPI	14.31535335	15.314975	14.21881829	13.18920825	15.33269026	15.47754114	11.47779189	12.4090962	12.52710286
CDC5L	17.15137338	17.10482507	16.99106359	16.46803409	16.39697254	16.38354317	14.32264392	15.54327755	15.05470032
CDC73	15.7870138	16.26624301	16.3278584	16.34234307	16.68978842	17.05293888	15.45562935	15.40268687	16.13150546
CDCA3	15.69927589	14.26093128	15.84998144	12.21950815	12.14839705	11.20266283	11.65964215	12.58353049	13.19432761
CDH1	15.4491286	15.57068451	15.65799433	19.19471176	19.29579805	18.33817718	20.68542103	20.30243227	20.01540323
CDH2	16.65725157	14.36832688	15.99151636	13.21849005	12.00469767	12.39913731	12.30342007	11.43874001	12.71457052
CDIPT	15.78172561	16.11366642	14.29052667	14.50727843	12.18017845	14.984398	11.55550358	12.79250498	12.10825508
CDK1	17.46247774	17.38617427	17.39888744	13.03062792	13.5639468	15.0695045	11.63024293	13.43654286	12.23936337

CDK11A	15.16357584	15.08524774	15.12364518	14.58208561	12.19011159	13.69804682	12.31496327	11.97671093	12.16773986
CDK13	20.45968353	19.92499338	20.31388624	19.25613094	19.41269233	19.27690046	19.26537656	18.95572344	13.22544268
CDK2	15.93997396	15.27721836	16.3628423	12.34474568	12.84658929	12.29598016	12.96086815	13.17572009	12.54780746
CDK3	12.91045681	15.48051982	15.29471854	12.35963251	12.14496308	12.01242951	12.34949924	12.15021576	12.46130387
CDK5	15.08780438	15.31314343	14.74997377	15.45286134	12.97563805	15.0822573	12.37665939	12.69793065	12.93413584
CDK5RAP	15.15731469	14.72106903	13.21277775	12.11516502	14.30927479	13.13033895	12.30758212	12.09084182	12.54361087
CDK5RAP	11.50997875	13.30794837	11.40594495	12.55548114	12.09746591	12.79840632	12.73556333	12.58671253	12.15353285
CDK5RAP	15.17301363	15.99756051	15.86324249	11.8135021	12.85004318	11.64223267	11.72282688	11.48739583	12.70830087
CDKAL1	13.22917049	15.00012168	14.51565282	13.05159442	11.81138417	12.38942681	11.86339291	12.54689684	12.11394074
CDKN1B	13.69375785	14.18506197	12.27939897	18.79425978	18.90494685	18.60860518	12.73714438	12.77385884	18.22420746
CDKN2A	15.65299258	15.49702402	15.2386771	13.04974818	12.86970951	13.24960379	12.7018082	15.14064704	13.36142501
CDKN2AI	16.79559565	16.93121504	16.97808309	12.33996624	12.24717376	12.82070916	11.55163616	12.90525716	12.82187939
CDKN2B	17.11594959	16.77347663	16.77078401	12.27456626	11.83732968	12.30516611	12.77475514	12.70719771	13.18537994
CDKN2C	15.0336073	14.59814844	14.61933386	14.24279148	11.61923296	11.83619053	11.65149541	12.40481247	11.44036502
CDS2	15.49204983	15.44372507	15.72116206	17.19180814	16.71347572	14.2950295	12.6535051	12.82443834	11.93291157
CDV3	17.33138954	17.55019717	17.60948793	18.29172863	18.06107853	17.79780769	19.27413352	18.87826461	19.17269322
CEACAM(	17.97885693	17.92464776	18.07801258	12.58640534	12.36432419	12.02451369	11.66952777	13.85621204	12.20131064
CEBPZ	15.56142586	16.02922082	15.88163203	16.69626715	17.17050942	17.75918597	13.18164451	12.73023202	18.20910308
CEL	16.36730117	16.3722228	15.90848542	11.47627877	12.37593717	13.22458301	12.03797434	12.61568591	13.91067228
CELF1	16.48233556	16.13327689	15.37875548	12.53370725	15.16876675	15.1663645	11.11759166	12.52635275	13.3791254
CEMIP2	14.75483436	15.02959843	15.76349408	12.8086945	12.4144554	12.61330908	13.11834553	12.97373879	12.91243692
CENATAC	15.288471	14.52034558	15.67248194	13.07578227	12.28016811	11.82688831	12.05032958	11.52261327	12.681139
CENPB	16.06060164	16.48406825	16.82892461	17.73467785	13.03524136	12.71012316	14.08313713	13.38890941	14.58306898
CENPC	15.46314373	15.38037435	15.8318341	13.0001455	11.85189929	12.52687434	12.23632981	12.25113604	11.82844918
CENPF	15.36300425	15.44284329	15.59594551	14.25151363	14.43758077	14.72572778	12.3572446	11.58350053	12.1441335
CENPV	17.77670941	17.8416566	17.91509297	16.8703213	16.73690919	16.96088738	17.71365636	18.03256984	18.47000319
CEP131	14.35190608	14.60109297	15.11913529	14.57429591	13.48356626	14.82515749	11.60707645	12.57920209	13.14331394
CEP164	13.11545473	12.95987225	12.62390176	12.29122557	13.10787027	11.75052726	12.52219062	12.80326056	13.29298066
CEP170	12.13091904	14.11112513	12.74234621	12.02435275	12.33561774	12.40644767	12.77200244	13.44848814	12.70725667
CEP170B	14.08198349	15.43504687	13.93236899	11.81320815	12.90959184	13.40789908	12.64119456	11.75917327	13.0617763
CEP290	13.57494126	14.77988692	16.68215681	12.81589695	12.53853054	15.77317705	12.11928446	12.47623413	12.62825404
CEP41	15.40391159	15.8177618	16.34035113	18.81901894	19.4240166	19.27859433	17.53909055	12.4294053	20.89870262
CEP43	14.31981133	14.82551456	15.25814655	13.17204761	11.32587958	13.38900227	11.40741299	12.16891567	13.03242462
CEP70	12.50970132	12.18093698	11.82107415	13.08998243	11.51495239	19.98883752	12.86976323	21.81835486	22.14427875
CERS2	15.01725827	15.49608375	15.64832782	18.26267812	18.3481043	18.26942376	18.52065085	18.43863554	18.70429652
CETN2	15.12381937	15.20367628	12.86120198	13.35025815	12.69572164	12.64874217	12.54944899	12.14093669	12.6929283
CFAP20	13.79689087	12.20251869	14.5771791	12.10445065	12.02742986	12.51550789	13.40211167	11.91517389	13.07317321
CFB	15.44260805	15.39209173	15.74599431	16.11265051	15.4843615	15.85152354	12.93737908	17.89762234	11.75957341
CFDP1	15.33730297	14.4176605	14.67566319	11.65025591	16.1975511	14.59388331	12.1272558	12.68555616	13.20505465
CFL1	19.68412424	19.69086929	19.87062706	19.15698068	19.01314005	18.80748486	20.89999632	20.12044234	20.84669454
CFL2	14.33298778	14.77221475	14.82213866	13.01415759	12.12514283	12.09942737	11.83416318	12.23309426	12.5390609
CGN	12.89912537	12.12764457	13.59645045	18.39642267	18.27447776	18.34244795	12.1761205	17.27485457	12.6621668
CHAF1A	14.24035351	14.36426251	14.57635448	11.69605079	11.56123291	12.21897685	12.91995029	12.4958063	12.82299542
CHAF1B	15.55850267	15.61846967	15.73158375	14.05550892	13.99385485	13.98039363	12.89832284	13.24193473	13.94505682
CHAMP1	15.97139085	16.15671391	15.04897577	15.69114433	16.54383989	16.14415367	12.77489158	16.16803699	11.99817773
CHCHD2	16.13680519	15.79110963	15.88306707	12.1788913	12.63485087	12.33990202	11.22534784	13.45736687	11.81246457
CHCHD3	17.2212185	17.35212785	17.15608009	18.5104833	18.2979374	18.51869672	14.75030703	12.15231292	15.72938849
CHCHD4	15.50483864	15.59027323	15.40777089	17.4773122	11.57659621	11.96689696	21.4814996	12.85713725	20.39901552
CHCHD6	17.36689813	17.77693408	17.40568486	16.91092355	17.96095717	17.43757814	14.88175274	13.05920692	16.50037523
CHCHD7	15.17996143	15.59107606	15.233118	16.5348746	17.03486454	17.14437664	12.28373091	11.92050327	12.02061382
CHD1L	13.62735943	14.22395258	14.7057976	15.08180034	15.09392051	15.17158588	12.27124721	11.97132794	13.26867977
CHD3	15.15387987	12.82417608	14.73408356	15.60509306	12.03783144	13.02418957	12.46043835	12.39447568	12.06712528
CHD4	16.85263654	16.42618899	16.72341657	15.96512538	15.48703745	15.49401563	12.50126169	12.76541336	15.58739656
CHD5	11.02519054	12.55273464	11.63034871	12.35326097	12.61220838	12.61796937	13.21867921	11.53756997	12.29356486
CHD6	20.56854527	12.74090404	12.84564251	15.19962048	13.30087986	12.10060365	13.93971887	12.55693593	13.40494182
CHD7	15.78536845	15.65875563	15.43409165	12.63103737	11.94074146	12.67652567	12.56788935	10.97724517	12.66829338
CHD8	15.00512054	14.22829631	14.88575026	11.78746977	11.95924907	11.81732644	12.37147859	12.14469424	15.59423234
CHDH	15.15567581	14.9803348	15.50158511	16.31038827	16.5343841	14.09346883	17.43811172	11.35579494	14.53312681
CHERP	15.56166602	15.6194452	16.3136742	15.39488997	13.71351595	14.95442991	13.17116317	12.61823195	13.34310319
CHGA	15.61015587	16.16944849	15.96778772	12.60747781	12.95575121	15.23847199	13.25844724	12.21558813	11.90147345
CHID1	15.64114226	16.14580437	15.94582986	17.95325158	18.50269675	18.29452061	12.82290033	12.51518711	12.34556047
CHL1	12.68857955	12.36275892	13.71220495	12.77253652	11.81752372	13.07762229	13.02342088	13.22108275	12.25306107
CHMP1A	14.46294814	15.67786361	14.48562778	14.69077354	14.4094422	14.23590222	13.57480763	13.2603041	12.61631862

CHMP1B	15.90739745	15.5369354	16.10586773	13.99096476	15.77395387	16.64057517	12.5382146	13.40694402	12.53169372
CHMP2A	15.9207565	16.00398005	15.64308684	15.08609547	14.938441	14.7939054	12.21583632	11.77839553	12.81250588
CHMP2B	17.0406265	17.20017913	16.63899315	13.8497006	15.37485367	17.03400213	13.05407944	11.57533439	11.93486848
CHMP4A	16.85761211	16.5949168	16.63031677	16.2566123	17.54963252	17.18786606	12.31121157	12.28867419	12.29466777
CHMP4B	16.73171279	16.94760824	16.98290734	16.7628324	16.27962831	17.34361616	17.07990277	12.92726483	17.25972199
CHMP4C	15.68927858	16.71538579	17.16003329	18.30473274	15.90899989	16.7824519	13.05950757	11.39811641	11.93722574
CHMP5	15.41676724	16.38060653	16.32496503	16.15453521	16.79464077	16.60420816	12.47322796	12.08703024	12.15332932
CHMP6	14.39752334	15.4798481	15.49083301	15.93504347	15.54162057	11.7786277	13.03593962	12.56465436	11.57299724
CHN1	14.21228402	12.59569349	14.13521628	11.3194089	13.76411982	12.6722137	12.17139097	12.6711382	12.22047561
CHORDC1	16.06658664	16.61169345	16.28606443	11.8780148	12.54156702	11.86563401	12.25330174	12.50341359	12.6831736
CHRAC1	17.01095867	17.31070178	17.4316005	17.51269322	17.42330951	17.41978359	16.62664644	12.25992972	12.31162166
CHRNB1	15.05263247	16.11394575	15.37916083	16.29943047	14.97019252	16.27477694	13.10160963	13.31066196	11.76250195
CHTF18	15.45324103	15.21125894	15.65758391	12.45946663	12.15342453	12.07028009	11.63262773	11.53580288	13.00082538
CHTOP	16.49956812	16.71733317	16.86387554	18.52829563	18.65119894	19.16079759	18.19375331	17.79125818	18.23898369
CIAO2B	15.03439728	14.95752912	14.75322821	12.15248376	11.87140657	12.72736878	12.7972088	11.8046123	12.48572569
CIAPIN1	15.31778945	16.17839543	15.13457472	15.10435133	16.08657617	15.24159176	12.94026008	11.94367235	12.45191508
CIB1	14.93036385	11.12712803	11.31508916	11.8176633	12.34207596	12.10798638	11.99010643	12.5919147	12.34008
CILP	25.42335991	25.4403996	25.47256098	28.59711794	28.56919204	28.73474498	30.663165	30.58923057	29.80450175
CIRBP	18.85424481	19.10361829	19.13473504	21.812514	21.15516948	21.7745391	20.56504416	20.64316042	21.69549132
CISD1	14.74491958	15.23559167	14.33357098	15.15105897	13.42734205	13.63532487	11.75713796	12.70336633	13.06584434
CISD2	15.53098709	16.62243592	16.14735355	14.81416235	15.04743265	11.88841607	12.63286788	12.06712047	11.40629521
CIZ1	15.93579939	15.93411812	15.68880302	11.69257112	12.09871468	12.45611307	11.39970407	12.25389186	12.86353391
CKAP4	16.46921715	16.40223858	16.78966078	17.57335704	17.70245069	17.58452639	15.80846938	14.48981494	15.07534292
CKAP5	15.30750953	15.59816308	15.46319875	13.25383007	15.18122843	16.05933504	12.92633947	12.26182906	12.19675793
CKB	20.08706364	20.18807973	20.21058382	17.34443624	17.35737337	17.01571527	19.32527283	18.86414817	19.136957
CKMT1A	16.24761191	16.84466565	17.07161041	16.11634845	16.14942212	15.94116852	13.53928853	17.41846646	12.21982515
CKS1B	15.34029943	15.82903513	15.80498811	12.26855236	13.05204162	12.07157794	12.65698604	11.73128874	14.14779279
CLASP1	14.17909478	14.22110299	14.59653309	11.62635825	11.27181924	12.11115421	12.01977705	12.88215449	13.76469392
CLASP2	15.36633566	15.34739468	15.39084427	15.28850918	16.35659297	16.27132379	12.74762317	12.02205694	11.88160283
CLCC1	13.19426589	14.75527333	14.39240683	17.63159041	16.60132176	17.62400468	18.01948834	18.65227914	17.40053093
CLDN3	17.78881801	17.55840375	17.86254475	22.64974951	22.62585491	22.58321955	24.33056691	24.27346217	24.32893469
CLGN	15.25121128	15.37478025	15.64083278	14.98220725	11.01324235	15.29542221	12.42149589	12.91818203	12.27553639
CLIC1	17.87851834	17.49944195	17.69262771	15.76253087	15.85155655	16.63041121	17.12866049	15.52774837	16.10490029
CLIC3	15.00974058	14.57991684	13.33345736	12.77913023	12.91716317	12.8844265	12.37482398	12.64953586	11.86550904
CLIC4	15.65084485	14.75656403	14.87389211	11.86610206	12.96866039	13.15998754	12.98910038	12.36836152	13.05523383
CLIC5	12.63462442	12.70628777	12.69711161	11.41454639	12.75580032	11.64937053	12.54626405	12.18837388	12.20261828
CLIC6	14.10758124	14.89074001	14.44177298	12.43943765	12.60377641	13.45850109	12.48411628	11.75470796	12.49323938
CLINT1	14.31316203	14.44951786	14.01318174	17.2796937	16.91168037	13.05599196	15.15754171	16.57426187	15.56119316
CLIP1	20.57126618	20.33646526	20.5618463	21.90993106	21.8502978	22.14400593	13.4308615	12.04892894	21.91306409
CLK2	16.16171659	12.53686896	16.7332265	12.52710034	18.09719326	17.29411873	12.31923286	12.86633796	12.37369039
CLMN	14.6274418	14.59656351	14.31913213	15.8660582	12.47402236	12.52883716	11.09605346	12.41198173	13.10788539
CLN6	12.81198119	13.26874661	13.27731379	14.9848437	15.01919417	15.16667676	12.47389992	12.37120137	12.70836423
CLNS1A	16.27191531	16.3329233	16.38558236	15.07460826	15.44685577	14.63956319	12.26210854	11.92301491	16.02320234
CLPB	15.63082463	15.55369293	15.68447975	14.71485192	14.41901914	14.47188254	11.92715417	12.15169329	11.71747854
CLPP	16.72101072	17.16061463	16.69466406	15.71067417	15.02389587	14.39848862	13.09662311	11.82171284	12.24563607
CLPTM1	11.47274317	15.20861956	15.62329354	14.09896096	12.14309532	14.16773012	11.9865745	11.56865863	12.67611118
CLPX	12.62918685	13.47002555	13.098064	14.70696043	12.45372162	12.71468438	12.76485592	12.04719735	13.45361932
CLSTN1	15.3483644	15.26109384	15.32369946	13.715159	13.94676557	14.97257019	12.42290673	15.37569148	12.92542977
CLTA	16.95117528	17.29021779	17.08404462	18.06927744	18.42055162	17.98221736	20.59398658	19.77858499	20.50393603
CLTB	15.70383586	16.05520528	16.12684379	16.20204361	16.27509265	15.32675932	12.15365802	12.31520074	12.06283374
CLTC	18.01847933	18.05718986	18.14051534	17.82613229	17.77595609	17.7256069	16.88311115	17.32283351	17.1691383
CLTCL1	17.43631894	17.48059607	17.41397137	16.6593467	16.44131413	16.71062792	15.13374595	15.26699723	12.12066901
CLU	14.49982926	18.1065813	14.21387567	14.59278732	14.55882797	14.51388735	15.81879521	15.14387235	15.52844098
CLUH	15.93000377	15.75370862	15.71867592	14.24271381	14.57715769	12.73968644	12.95430747	11.27991277	13.2689802
CLYBL	13.94723168	13.93542523	12.64082861	12.11687452	12.66824716	12.51680902	11.93986494	11.94712716	13.13767174
CMAS	15.97652187	16.01048618	15.87296855	17.89591384	17.91416458	17.95967639	11.80374239	12.68506725	12.43681797
CMBL	15.65105321	15.76162023	15.46038546	17.3298699	14.09772772	16.2399327	11.69674734	12.11175441	12.6100651
CMC1	16.78013889	17.00330168	16.97492553	18.36538783	16.36904149	16.70186945	12.08933937	12.03405109	12.15258136
CMC4	17.12934682	15.95464163	15.77882833	18.39399115	19.67012958	18.79523132	12.04310753	11.66383678	12.28370237
CMIP	15.4971326	15.50281875	14.52162164	12.7453966	13.31624835	13.07594048	12.66176569	11.65695796	11.98222491
CMPK1	17.30957446	17.15863325	17.23990994	16.65318429	16.64697883	16.43144563	11.70539317	10.90693784	15.52187586
CMSS1	14.64833448	14.46059699	15.5893279	11.85399818	12.43373447	11.7375	12.43557563	12.95917205	11.81220375
CMTM6	15.96188112	16.24894183	15.5588613	11.56861288	18.02745528	18.34084951	12.59345918	11.76423627	12.23906218

CMYA5	13.85039213	13.88647348	14.91354657	12.55242322	12.58978546	11.75982819	13.01713049	12.59954957	13.4899923
CNDP2	16.85813895	16.966078	16.79133595	17.95993022	17.88990768	18.0988836	16.55715002	16.49118939	17.69423396
CNGB1	12.05945201	11.55262634	12.91560359	11.58302527	12.55694856	10.63267671	12.14445293	12.26096892	11.61590379
CNKSR1	12.83229481	12.33803958	14.03511462	12.44717246	12.14319698	13.55864328	12.42753088	13.00049015	13.29997597
CNN1	10.36618524	12.76201421	12.59566806	12.92108996	12.96840174	11.63640487	23.57129591	23.57125618	24.53729016
CNN3	16.31162472	16.68731977	16.60639059	16.09407801	16.83667936	18.03985473	16.44315084	12.17477136	12.4739279
CNNM3	14.73938139	15.10311946	14.33016116	14.4260127	15.53365503	15.13245168	12.47250123	12.8843129	14.94695569
CNOT1	15.32446364	15.03663546	15.32846661	14.66648056	14.69325918	15.09655865	12.24089809	13.15368064	12.93644321
CNOT11	11.65406707	14.72902947	15.50897341	11.94189543	11.81828082	12.19717881	11.49599665	12.30617707	12.06730672
CNOT2	11.61222847	16.72236422	16.74416559	13.70128066	17.54847134	17.27116045	18.56640614	18.17160456	18.74439781
CNOT3	15.4132331	15.40688329	15.61459207	15.29327332	13.74961673	14.66788172	12.6441745	11.75945512	11.50301898
CNOT9	15.419524	12.96824594	15.05338486	12.09935524	14.75152978	12.16775297	11.79733148	12.47307025	11.86495533
CNP	16.55426722	16.11293059	16.10634711	15.93925332	15.86608798	15.9208492	13.25682517	12.63458304	12.79228868
CNPY2	16.42917191	15.92925878	16.44166757	18.56039761	18.34391914	18.39153	12.10843673	16.39542376	17.10363977
CNPY3	17.46739448	17.33314926	17.67652001	17.56835155	17.67677186	18.06877853	17.1148494	17.80665616	12.59848121
CNTRL	17.71500153	17.77580292	15.34989531	12.13440748	12.82106464	11.76635368	12.77705902	11.72287321	12.11762519
COA3	16.9660128	17.12185315	17.00305479	18.63703339	19.07581907	18.93130699	18.09590565	18.10154634	19.75328856
COA4	15.33458136	16.35659311	16.11812446	17.15592501	18.45094921	18.08426217	15.24253659	15.92678179	17.51714029
COA6	16.08205218	15.35888309	15.80655164	13.1781063	15.96560504	15.8337523	13.06553746	12.09446093	12.44721784
COASY	15.8290951	16.38489635	16.31856508	16.72430322	17.03186668	16.64527994	16.40069674	13.8392076	12.17150613
COBLL1	12.08349381	12.64153786	12.98314603	18.14022242	18.14344406	18.17182652	17.43060894	11.85873237	13.00012325
COCH	12.11338246	13.19780949	12.0920478	18.60410371	18.5572976	18.49208387	12.36579157	12.33420553	12.21610118
COG1	16.29748591	16.57622289	16.27614813	18.19975993	18.48364407	16.76008996	17.29871822	19.75036555	17.50345194
COG3	16.35809904	16.3991608	16.52998134	17.37439617	20.11466583	20.28413627	23.05989895	23.34486081	23.52514681
COG5	13.89732318	14.52098233	13.73387228	15.46987023	15.81840645	15.47551038	11.86814935	11.42328673	11.2793044
COG7	14.66468902	14.81641221	14.03994606	14.99021427	14.91681426	11.53395468	12.94053963	12.3575007	12.94216563
COG8	13.87180552	13.23239913	13.50035962	12.39528789	11.62435238	11.73037503	12.94437237	12.23363791	12.04000512
COIL	13.24559588	13.03204427	13.18317593	12.8236347	11.63726049	11.70706664	11.92081993	11.68851714	11.27403808
COL12A1	11.33186183	11.2009107	12.28219643	19.14594445	19.12014721	19.0173517	18.22595283	17.8483955	18.00716082
COL14A1	13.16757037	12.31807094	12.1448226	18.08081206	17.20357968	18.27552867	20.32154847	19.42268818	19.81809792
COL18A1	15.38588993	15.65776883	15.45280218	17.7601412	17.82125914	17.5655217	18.14561928	17.65745025	18.18576189
COL1A1	18.59770072	19.29929636	19.23925806	24.16028675	24.34976929	24.83702791	27.7073203	28.0981408	27.9994437
COL1A2	20.06381111	19.91201228	19.80759826	24.67120036	24.76369784	24.7934206	27.69482239	27.88244886	27.90035113
COL21A1	17.09646782	17.15679299	17.11124344	14.53123854	14.87934002	14.82939526	17.13710509	16.95761143	17.11977626
COL24A1	12.43723988	11.87124646	12.49914512	12.06189463	11.97002849	12.25105022	23.21215467	12.45286678	20.6566921
COL2A1	16.89646835	16.39392628	16.18699387	21.16438167	21.27424949	21.2785647	24.17000628	24.43210416	23.96773305
COL4A1	15.34903524	15.37334463	15.83141725	18.24238095	21.00068403	18.59029065	25.29306987	23.50319758	23.89200137
COL4A2	16.51561986	16.68391686	16.59881119	19.71859528	20.20750146	19.9470072	21.6307406	23.06148007	23.08244189
COL5A1	12.69393763	13.69935506	13.85993326	19.8808045	20.12106907	20.18996293	22.8173938	12.33903925	23.15642783
COL5A2	13.13274385	12.74813117	12.43488475	19.69892851	19.385834	19.75452442	20.93491377	19.66205753	20.67858613
COL5A3	12.57467791	14.47017102	12.38351537	17.08582833	18.01795662	18.01030246	12.36536992	12.10357056	13.34096673
COL6A1	17.70719433	18.03001787	17.75507606	19.9930645	19.99203427	20.1429796	22.1789666	21.32141761	22.21672219
COL6A2	15.8494644	15.55298733	15.76629282	16.64021878	16.71613293	17.32301754	19.02214652	18.83577631	18.92544179
COL6A3	16.66105597	16.66629728	16.63602676	18.90639643	18.81827635	18.89256263	20.14718062	20.32759335	20.37859642
COLEC12	12.5319302	12.37893452	13.05927459	18.19983651	18.48577568	18.13173589	12.57327286	17.05248859	11.37866582
COLGALT	16.51583537	16.76332367	16.56617153	16.11735496	16.43157265	15.08986433	12.6429461	14.97518429	16.28007523
COMMD3	14.80480956	14.42683339	15.03600985	12.68603244	11.98118515	12.22458239	13.04990573	12.29696987	12.98636473
COMMD8	13.46164648	13.25280283	13.59637814	11.70995883	12.08628622	12.74558882	11.95182745	12.75170257	12.71725552
COMMD9	15.06913354	14.44744632	15.46552217	11.21470373	11.508947	13.10862384	11.65320536	11.68639886	12.39774296
COPA	17.31823636	17.28807136	16.76189792	17.89276842	18.09347796	17.96643186	18.84772838	18.67195522	18.25682728
COPB1	17.12493655	17.05350504	17.134634	17.652204	17.4087093	17.15851647	16.98586041	12.5897622	11.95665051
COPB2	15.89084492	15.40471967	16.00698846	16.54066895	16.50047925	16.48856843	15.63280179	15.67101077	16.690108
COPE	16.8515681	17.12018305	16.78998279	14.46034859	14.34982803	13.86922962	12.01150452	12.54129017	12.99407722
COPG1	16.75902448	16.85532631	16.67584181	17.44000632	17.12651391	17.33624947	17.93506173	17.60326422	17.69667222
COPG2	15.57820759	15.25996821	15.56257062	14.64480614	15.00916555	16.84767186	12.63204786	13.15444482	13.34778619
COPS2	14.85971699	14.42591872	14.78869392	12.21800175	11.77799189	11.98819355	12.78428883	11.66748122	11.20537479
COPS3	15.07262901	15.54982626	15.23373243	12.60523956	11.06003834	13.03559859	12.54650121	12.25025218	12.08597831
COPS4	14.39601854	13.84796634	14.46872805	12.06169446	11.4792972	12.15557311	12.42666632	12.38290197	12.00717922
COPS5	14.25456194	14.20778232	14.18766254	11.92988457	12.01575989	15.7041501	12.51980064	13.25722009	11.12788226
COPS6	16.0160365	15.94233113	15.4556338	12.00252309	13.21041237	12.06144799	10.86716755	12.32674924	11.93956198
COPS7B	13.96559016	13.43899865	11.91758065	10.8674632	13.47701752	13.16303199	13.87817072	12.47774571	12.12164819
COPS8	17.62545204	17.0598219	17.49530298	13.89824419	11.711304	11.96562969	12.28635384	11.20343942	11.98568785
COPZ1	16.93567428	16.34288824	16.74571491	11.38497204	13.45587926	12.83929525	12.60888673	13.16802283	11.55175727

COQ6	13.09752569	14.27808274	27.073358	15.27297485	15.89636564	12.29903646	13.85162703	17.13194709	16.33386418
COQ8A	15.43234067	13.54963354	13.55915283	12.26004239	12.40275785	12.07970307	13.28335121	12.39091173	11.79951162
CORO1A	17.01677369	17.43628817	17.04402262	14.88288177	14.59630877	14.48929016	17.16607307	12.04622723	14.37036725
CORO1B	17.62650368	17.90154069	17.94054373	18.77977557	18.88758517	18.76358981	19.4999106	18.63910464	19.35579114
CORO1C	17.86714582	17.75515774	17.90415722	16.07514939	15.55158074	11.45967611	13.52717133	15.51804208	11.81178263
CORO2A	16.35146503	16.34056209	16.25142373	14.86337653	12.37345653	14.89680022	11.53730505	12.64322963	13.09680428
CORO6	11.26236875	13.80074272	12.80536626	12.28807955	18.18990747	18.62353026	11.84699829	12.64314552	12.21755781
CORO7	15.82351852	16.1295912	15.65916565	15.84621308	15.89674221	15.87288253	14.53317309	14.87777091	12.35517554
COTL1	18.82283902	19.03220851	19.04622977	16.26703277	16.37106226	16.01833761	15.93648919	16.50472703	15.97029879
COX16	13.80292512	13.2961819	13.11186007	12.48759368	12.44673422	13.04153213	13.07372588	13.00294462	11.83989111
COX20	15.32804441	15.88994644	11.59154005	17.9471369	17.63757852	18.18938678	12.01731409	12.38914636	12.25954819
COX4I1	17.34531849	17.35012025	17.22046343	17.20705646	16.54623278	17.0581842	11.75749098	12.34076907	11.30853759
COX5A	17.32431849	17.6323496	17.29454346	15.33659518	15.01560886	15.55842092	12.89304492	16.71987898	12.05562924
COX5B	17.94658268	18.03929658	18.09520056	19.46261355	19.33952899	19.52556128	19.34596835	19.08024813	19.61106473
COX6B1	16.01787999	15.82162629	16.50603111	18.04998068	18.11491336	18.20035357	14.81325984	12.51616231	11.72170283
COX6C	18.41167743	18.41552181	18.15421182	19.52558942	19.43452666	19.59330633	20.26020424	20.69655228	20.44009167
COX7A2	17.01644986	16.45025126	16.2686698	13.31137443	11.77845939	12.55029042	11.7341226	13.07333413	11.91412556
CP	16.22921959	16.01585574	16.05240623	17.08627354	17.35484634	17.40923725	18.11218196	17.90898838	17.64666896
CPD	15.67348691	15.76511033	15.54611937	14.87081143	14.03580165	13.11548559	12.3972505	11.68864166	14.1667811
CPE	17.0801034	17.04574252	17.1821281	17.18636866	17.22579352	17.16072499	18.00007756	18.24067154	18.2456732
CPEB1	12.10235885	11.60251861	14.27934206	12.66356698	13.09643866	13.19163359	11.83128034	12.55523694	12.02145715
CPM	15.77430596	15.50187276	15.80476461	10.96985992	11.89678744	12.51536763	12.60677141	12.2213225	12.71936403
CPNE1	18.18110264	18.27768906	18.29921403	17.53688898	16.80037276	17.00239453	15.91720465	16.11516169	17.14518298
CPNE3	16.61051153	16.69566192	16.51856688	14.5204386	15.60142202	15.15336566	15.82755185	13.73346462	13.97183996
CPNE9	18.25025907	18.54939604	18.26759578	12.66391983	14.51395676	14.58536846	17.86991246	12.52707689	17.67765626
CPOX	16.10136828	16.25757006	16.397239	14.22764269	15.51976684	15.23378563	12.65344245	12.42032155	12.58561315
CPQ	16.0950859	16.07543713	16.12608908	16.8884066	16.35000146	16.59966219	17.90261525	11.87989619	16.13734153
CPS1	13.09144831	13.01317928	12.67703141	13.35883709	12.068895	12.67707574	16.01859992	12.44946384	13.43651662
CPSF1	14.95458906	15.56170789	15.51694953	16.05070193	16.18078321	16.69420898	11.74143953	16.41468472	12.29892175
CPSF2	15.28820608	15.37779425	16.60119771	14.17245921	13.59959635	14.25828526	12.01721949	12.22426264	13.36234012
CPSF3	17.20402153	17.18473513	17.3776045	16.06038759	16.34307414	16.28348856	12.47837244	15.35392999	11.91387261
CPSF6	17.48520856	18.02252442	18.26029294	18.98171291	18.99131458	18.91341996	17.6469633	17.40562435	17.7766363
CPSF7	17.16674425	16.90416522	17.02894179	17.74770964	17.5182869	16.98125835	12.52866015	15.15101999	12.739875
CPT1A	15.92305069	16.60217049	16.4445218	17.30932565	17.75513165	17.82773814	16.32269643	12.60243774	16.34106181
CPT2	14.86460316	15.12641074	15.25690538	15.66135471	15.71037414	15.55235165	12.35266733	11.81240208	12.9053619
CRABP1	19.88132693	19.88252573	19.87601395	16.66518877	17.23653009	17.62208519	12.71314557	14.72696915	12.15082891
CRABP2	17.02450202	17.25443473	17.1544311	15.06002498	14.50019628	14.38733531	12.47834167	12.47696323	12.88605497
CRACDL	16.03924013	15.7215294	15.70078367	12.25384189	13.37522675	13.03677136	11.75376358	12.55951394	12.29381048
CRAT	15.85716067	15.84723288	16.05861727	15.53678692	14.40732942	15.0858941	12.65152709	12.71455516	11.04300212
CREB1	18.52134769	18.51735707	18.64643328	19.86599338	19.66737996	12.03604976	19.25889224	12.95895857	12.66186337
CREBBP	13.8574583	12.89139194	11.75840139	12.07533892	12.29600769	12.96209501	12.38526017	12.90788717	13.26436358
CRELD1	14.15337334	14.32017068	14.55933832	16.51133673	16.24620177	16.19366357	12.13418534	12.7259736	17.41921886
CRIP2	20.41416625	20.42757098	20.00775519	19.41817244	18.76720865	18.57273733	21.97261446	21.62544471	21.11023181
CRK	16.8948676	16.90459431	17.16477438	17.64809116	17.48117284	17.28865158	17.43612036	18.25579931	16.98961041
CRKL	17.10139793	17.20720745	17.18692098	15.49726941	15.14422039	15.23487888	16.79561913	17.25850381	11.52553368
CRLF1	15.06420475	16.47778765	16.37730581	11.84592183	13.00149216	12.70764617	14.09400919	11.54588356	12.6359642
CRLF3	15.77217903	14.41797726	15.44415696	13.32341264	12.18914178	11.56477187	12.96019887	12.5688733	12.58448323
CRMP1	17.66368765	17.74874	17.67464177	15.97561669	16.65938267	16.75703449	17.30409243	17.47980531	17.39102055
CRNKL1	15.32772584	14.68734855	15.16465185	13.84276101	15.39788358	14.20432107	12.35931406	12.07708674	12.45430013
CROCC	17.92914733	17.90151687	18.08503687	18.7649923	18.62926693	18.69276312	17.40236717	17.2440396	11.93886235
CROCCP2	16.00987598	16.43572487	12.04436916	12.11038958	11.91365567	12.36346448	12.64732755	12.59186092	12.22153395
CRTAP	16.38554744	16.19908467	16.2247167	15.87584857	15.96666325	15.89671787	11.80069655	12.85153491	11.88268131
CRTC1	15.97326061	15.13648543	16.14385325	11.80071279	13.75037976	12.48430926	11.75362576	12.49603064	12.84325614
CRTC2	14.7445761	15.55237738	14.27387856	12.58752768	11.97746251	12.0353091	12.24066714	12.47617196	12.76950709
CRYBG3	14.68522039	15.14748632	14.92326852	14.45069916	14.58334244	13.00089638	13.26883344	12.03372287	12.2504096
CRYZ	17.1208506	17.44218469	17.05811106	18.88871292	17.45476432	17.51957794	11.54823444	17.25028775	17.51254122
CRYZL1	14.83358046	14.45466903	14.93285994	12.53612021	11.94545062	11.68398594	11.99417942	12.36759101	12.06442099
CS	18.95465769	19.1027651	19.1264588	19.47309445	19.27989254	19.72418158	19.19898611	15.32645116	19.4727949
CSDE1	15.27213868	15.99478967	15.93761903	15.77092173	15.27800909	14.5992037	15.63373197	15.33055126	12.65862981
CSE1L	17.2453315	17.4788815	24.27803497	16.51800133	15.86912283	15.97980496	13.05131801	18.28393142	12.90108382
CSK	15.1782758	16.10727361	15.71543069	16.77048646	13.69198388	16.05848659	14.08436728	11.83190212	12.97325769
CSNK1D	16.27695882	16.35483138	16.64521673	15.17538596	18.16590745	12.31519062	13.58862814	12.42298632	12.80996098
CSNK2A1	14.87706009	15.2940798	14.13494369	11.56813159	12.41220967	12.53829274	13.33832345	12.19876806	11.67180227

CSNK2A2	16.14060241	16.27515504	15.68054376	12.48818837	12.44112264	12.08005418	10.97824654	12.3904851	13.17788908
CSNK2A3	18.42363494	18.42886335	18.42696082	17.08269311	16.91395824	17.00796579	18.84339122	12.47935633	11.87638529
CSNK2B	16.53941557	15.86000652	16.43203107	11.83137484	12.44033453	11.80381116	12.7101252	13.18358694	11.75843193
CSPG4	12.84384806	13.8067453	15.5125907	11.5508629	12.31391052	11.47268603	12.28998016	12.93736922	11.66729877
CSRP1	18.32331323	18.42410641	18.44000399	19.61430181	19.60999143	19.07950838	24.64526946	24.57342651	24.6867734
CSRP2	16.24881683	15.82153317	16.36300675	18.62496538	18.54632691	18.78465485	18.33289923	19.9807105	12.3881656
CST3	17.49141968	17.50915085	16.56899711	18.72071844	18.00704146	17.04590648	20.02603058	20.34676154	19.75167864
CSTB	18.7155689	18.71378948	18.75947156	18.08913075	17.92529894	17.76269366	12.45301202	12.89754533	12.13674814
CSTF1	16.4900324	16.24925719	15.73443798	15.55349407	15.82680764	15.84257734	13.2483895	12.58139212	13.18444674
CSTF2	17.76477685	17.91969178	17.81257354	18.6311811	19.03470251	18.93699922	18.16729313	17.52590146	17.42300214
CSTF2T	16.93883664	17.09628857	17.20450815	18.4895934	18.34982027	18.62203667	19.01954502	19.62214316	12.7022988
CSTF3	14.6553487	12.68674153	15.22581615	12.784839	13.27432271	13.53192424	12.66195867	12.50638931	12.02995338
CTAGE1	16.39357162	16.36660874	15.97760481	17.40122572	17.10144291	17.57020164	18.91290596	12.65883112	14.01423053
CTBP1	15.96076094	16.38963281	16.33176755	16.00388382	13.69081855	12.79821716	11.64473132	12.570056	13.29763733
CTBP2	16.9377155	16.92299199	16.93533924	16.46582003	16.30359006	15.98517829	15.26849016	15.01490318	12.86981582
CTCF	14.58559048	14.58853222	13.31336197	15.31042214	12.40552565	15.18010784	12.58782682	12.44712342	12.74774041
CTCFL	13.09898589	13.48964728	13.60538874	13.10369394	14.20964023	12.42970256	11.4256242	18.62061191	11.29598154
CTHRC1	16.65113037	15.9635555	15.75421237	12.23008843	12.80930064	18.42676646	20.16381795	11.60798969	12.48325312
CTNNA1	17.27957521	17.56573221	16.667737	17.61019995	18.15888668	18.39651165	15.64113877	12.09612246	11.65268081
CTNNA2	13.45565781	13.88625546	13.31455552	13.50212689	12.69787335	13.09204033	12.21893493	13.35175757	12.58447391
CTNNB1	16.60064965	16.78437069	16.61268524	18.4947272	18.52333063	18.10733617	18.480377	17.51000543	18.51665937
CTNNBL1	15.80320059	16.0042753	16.29507836	15.16868092	14.6695962	15.36822917	16.87098898	16.1617161	16.81204175
CTNND1	16.54283429	16.77367735	16.76882861	17.13893543	17.50418935	17.05034563	16.61042306	17.78629877	16.44189548
CTPS1	15.30151187	15.5448561	15.32416641	12.73265231	12.13381107	12.06181843	14.79214282	13.86720928	14.61659759
CTSA	15.91281385	15.67550625	15.68795498	15.58210666	16.64065	12.97629488	12.46657437	13.44897911	11.82370304
CTSB	19.66627758	20.39417206	20.33994485	21.12477751	20.52345515	20.57321356	19.49752933	19.7079913	20.03694278
CTSC	14.88113159	15.36238278	15.14530735	13.07535991	12.11569149	12.42178014	12.32983805	11.16391327	13.27565074
CTSZ	17.8355017	17.68561128	17.38182652	18.92062762	20.02532961	20.2409403	19.36257954	19.91942015	19.88796412
CTTN	16.81140323	16.87277202	16.7795857	18.36352958	18.11456119	18.1424059	18.85089195	18.16685538	18.46415612
CTTNBP2I	14.64757665	14.65947022	15.28425068	13.30221818	15.79376568	14.0669069	11.94657446	11.76180794	12.58081024
CUL1	14.36354118	13.91797712	13.42322786	12.56374343	13.20100009	11.79733826	11.94291105	12.72112833	13.09077366
CUL2	15.17541778	15.6286432	15.38954456	11.83785955	13.08949305	13.90605224	12.7150934	12.04678019	13.01174638
CUL3	15.1826063	15.30969009	14.72940463	14.99278126	14.97557095	15.02241933	13.7958153	12.78551079	12.4260637
CUL4B	16.00425546	16.53437883	16.14938805	14.08916407	15.44988593	15.06941405	11.62331349	12.39068779	12.24476829
CUTA	20.13171281	20.31067893	20.14274109	13.04415963	13.30959424	14.42894016	17.26738303	11.47265952	17.56758038
CUX1	12.46362489	14.05122402	13.45259839	16.10968991	12.40265192	12.78193679	12.54785637	11.782021	11.8317319
CWC15	17.36349969	17.63276958	17.50603196	18.34038154	18.16232103	18.39476311	19.56601159	12.4620221	19.33096913
CWC22	15.15542696	16.54104687	15.43838051	19.11405576	15.54585244	17.58603619	15.3473039	16.342691	12.52198336
CWC27	17.56061891	16.10909635	12.46243281	12.78477317	13.33840879	12.05922357	11.94617203	12.33262119	12.55901611
CXADR	15.94609535	16.4320143	15.85403198	19.79635768	19.83659855	19.44229044	21.52875885	21.21293223	19.27414162
CXXC1	14.20474422	14.42654855	12.45075774	17.15891579	17.31025955	17.61679692	18.02033843	18.28349629	18.50690258
CYB5R1	16.00811486	16.22220032	15.40227875	12.22104326	12.47501504	13.26297755	12.49000307	12.74143183	12.86089032
CYB5R3	17.00247083	16.95648593	17.24800019	16.38834978	15.45024011	15.88024192	15.88090983	15.08336691	16.66754405
CYBRD1	12.22437626	12.57239863	12.68553737	20.89057706	20.45146196	20.92584444	22.64995294	22.81355397	22.74163019
CYC1	18.40466111	18.61165801	18.62931784	17.61915015	17.07042718	16.63084776	16.55634444	17.6417352	17.34335925
CYFIP1	16.70944168	16.6237523	16.44928439	19.52027001	19.50016134	19.63882606	20.67747098	11.86263017	22.02533666
CYFIP2	14.9636716	15.25363971	14.82622947	16.42758298	12.21790865	16.07286469	12.47196378	16.1277211	13.15758757
CYRIA	17.78076057	18.34054817	18.44350211	19.09285774	18.39525534	18.59817352	12.16547961	11.77592645	11.88707504
CYRIB	16.55987161	16.6845828	16.64434423	12.14117022	13.50338344	12.62588767	13.02672663	12.41932295	16.02301932
CYTH4	16.37890014	13.23045853	12.66858216	11.63098001	12.61632003	12.13122557	11.28591684	12.07978845	13.90126899
DACT1	19.82497234	19.6732177	19.45190277	19.35837024	19.87715048	19.15265402	12.71877701	13.20551969	12.93557152
DAP	17.37068243	17.5338048	17.69897086	21.48284252	21.43041842	21.55660106	21.11384968	20.17024837	18.54752003
DAP3	15.12331886	15.35077221	14.53271669	13.97776298	11.65649024	13.17491117	11.94181145	11.8124649	11.18047688
DARS1	17.10416401	16.98021708	17.11934747	17.5322519	17.18310182	17.46099815	14.43043752	19.32970398	15.96413502
DARS2	17.25200813	17.39244187	17.5557286	14.74887484	14.40259274	15.08094256	12.6624992	14.50497706	12.3756062
DAZAP1	17.61262369	16.6988859	17.38408344	15.84255021	17.18544684	17.19065402	16.27514053	17.47677559	17.79506408
DBI	20.04776778	20.05026688	19.82287553	19.9291364	19.70364967	18.95243209	23.19355832	22.1340644	22.88285348
DBN1	17.51379471	17.53810394	17.56858793	16.46731757	15.14307858	17.08084575	15.73363253	15.95279667	16.6951005
DBNL	15.99993895	15.77724001	15.09064263	17.69472703	17.62617109	17.61215617	18.82801707	19.40034579	19.60807334
DBR1	16.386382	16.47713637	16.32046685	16.83642321	16.6590821	17.18919467	12.7130913	12.22301909	11.34329979
DBT	15.98089448	16.45693891	15.83684332	17.59431356	17.73041621	17.68913059	18.56701651	18.33710757	17.63888669
DCAF13	15.42527221	15.69909444	15.35099589	11.90465767	12.46640723	12.7463217	12.46956289	12.64550628	11.87582225
DCAF7	15.96904167	16.30775877	16.1440169	14.51816789	13.13371736	14.25857405	12.83217749	11.26680431	12.23246239

DCAKD	16.54499486	16.48601905	16.3244896	17.74524157	17.50879572	17.91635988	19.0226029	18.90756282	13.28384616
DCD	16.54229736	16.76410413	16.6649516	20.21122964	20.19048396	19.87179819	20.00161213	19.91903955	19.42414206
DCK	16.27663126	16.37370238	15.38158552	12.83929039	11.87091669	12.13385074	13.21724123	12.14752122	12.76119511
DCLK1	15.19374156	12.78688798	13.3397959	14.83193471	14.73198615	14.63110235	11.55633854	12.53494697	12.62182091
DCN	13.48916075	13.70689692	13.4363008	18.9499053	18.43215084	18.83698694	19.58120019	19.04541864	18.52612248
DCPS	16.10047005	16.55051434	16.62550344	18.18957219	17.89703896	18.42749953	15.99942878	19.70245292	19.85021434
DCTN1	15.43158731	15.78462923	15.56453886	15.98148622	15.68122683	16.44829936	16.3257241	12.37638071	14.72350597
DCTN2	16.50398818	16.39555017	16.37067456	17.86993779	17.54443801	17.77273361	19.10652983	18.67919915	19.42448565
DCTN3	15.39821999	15.71590114	14.32061797	11.65274751	12.40377417	11.99179887	12.19500796	12.76495395	12.57437643
DCTN4	14.34501504	12.1492608	13.13238117	12.29643146	11.52058852	11.57524142	11.74308507	12.82141164	12.02332604
DCTN6	17.15373283	13.34192405	16.23530883	13.02679294	12.50820073	12.26529234	11.76937535	12.70582293	12.8452192
DCTPP1	17.54366233	18.03123479	18.08312261	12.76401401	11.86738123	11.89107435	13.06566621	12.59306446	12.22141557
DCUN1D1	14.22398211	14.61976324	15.02636173	12.41667906	11.46997295	12.290021	12.0408078	13.05770958	13.27010563
DCXR	15.68344202	15.73559448	15.54010655	18.13726182	17.72602021	17.61426379	11.8583187	11.67692537	12.18767804
DDAH1	18.88006692	19.05414188	18.77502396	20.46565499	20.54148552	20.41996318	21.30765955	21.74864369	21.87183768
DDAH2	16.94234592	17.03078031	17.01862197	18.68858168	19.11016522	19.23758998	18.13006136	18.03443297	18.16060842
DDB1	16.76467692	16.7647391	16.68965729	16.21980773	16.8823676	15.79509668	14.71541571	15.17076947	15.70377327
DDC	17.59737372	17.67589195	17.62134076	15.66397382	15.28706006	16.78798643	17.3339937	18.001021	18.11175209
DDI2	15.88404803	15.81200584	15.4301221	15.63260428	16.62408923	13.11223347	16.6139872	17.01912802	12.31930111
DDOST	17.65900582	17.81641507	17.84005199	19.02187021	19.13696791	19.13571442	17.88212968	16.8801429	18.94051409
DDRGK1	16.39226351	16.17775276	15.77985014	17.60702491	17.96051139	18.17501914	17.27869005	17.27195764	11.04200499
DDT	18.68636961	18.65514973	18.54364001	14.75356245	15.18967609	14.77964125	12.15676002	12.63106231	11.89511078
DDX1	16.46093854	16.51369857	16.65615272	15.98372895	16.25059889	16.48169998	14.37087813	14.46870338	14.52825185
DDX12P	13.36407792	13.55469081	12.93101801	12.8522719	12.80616771	13.06030626	12.48785093	11.07441197	11.5625239
DDX17	18.2608953	18.32557534	18.1881207	18.97532644	18.92628152	19.11272119	19.70695469	19.47462036	19.60461933
DDX18	15.82309866	16.33827869	16.46354141	12.16982801	11.8108812	12.80094585	12.00888387	12.73175645	12.4588116
DDX19B	14.94413196	13.90459206	15.05998457	13.10316977	14.37745646	13.17251905	12.23758933	12.14859877	11.49521015
DDX21	16.77965662	16.83054061	16.98616872	13.20261895	14.83098865	14.89479134	13.02107587	14.21660152	13.36855655
DDX23	15.30043488	15.54261676	15.3953805	15.78161041	16.25222474	16.91404588	13.29411262	14.29105493	14.28446653
DDX24	16.63802294	16.55498136	16.86837785	14.35918546	14.49570435	14.06871552	15.22049474	11.79844017	13.06145006
DDX27	15.48489481	15.77056539	15.86196943	19.23937164	19.27989745	19.14882506	22.188735	22.54467949	22.34386186
DDX28	16.88306942	16.1302576	14.69316858	19.29164949	19.5037005	19.6995953	12.17155041	11.86893737	12.78359954
DDX31	15.01290548	14.72742385	15.01768076	12.76138962	12.28102828	11.56389456	10.98492939	12.73218366	11.87283234
DDX39A	16.72472561	15.95576408	16.88961519	12.44887839	11.5820642	12.14086543	11.29841893	12.21786086	12.31182275
DDX39B	19.43402702	19.42338418	19.37401047	18.71670065	18.56328571	18.67616682	16.66469613	17.77470731	16.84224099
DDX3X	17.17365197	16.83852396	17.20890921	16.18479426	16.70802787	16.06886946	13.11246545	14.37011606	16.21149429
DDX3Y	12.54655407	13.62769073	12.12207696	18.29063568	18.8261491	20.27618845	12.11840802	19.96828593	12.19895863
DDX41	14.36848663	14.68825965	14.99071098	15.43325608	16.38655969	13.06623758	11.93074642	12.52508435	11.80861249
DDX42	15.69875937	16.04758467	16.03181527	15.58700741	15.60433173	15.8921082	15.45288556	15.5616867	15.49092555
DDX46	16.03353213	16.12129811	16.13256996	15.11333705	15.34894074	15.18353152	12.30198836	11.43841543	11.79830298
DDX47	15.68659336	15.88524779	15.96356582	14.97974065	15.18489554	15.36000954	17.69754134	12.85495803	12.97763821
DDX5	18.6674417	18.72805111	18.61355587	18.3100021	18.23884873	18.39738043	16.14570956	15.58327831	16.98514703
DDX50	16.02522696	15.89697325	15.88472003	14.35243539	14.294626	11.29878082	11.82792363	12.29327217	13.05627107
DDX51	16.31825965	15.83847545	16.2305807	12.93240744	12.51416653	14.75238059	13.04461178	12.8532664	11.80310012
DDX52	15.53992822	15.42774373	15.54829672	12.06224897	14.73049573	14.15235103	11.20514629	12.47255845	12.12736509
DDX54	15.37457926	15.66323303	15.76299757	11.98576851	13.59559874	12.55444015	12.29601963	11.9679764	12.50624262
DDX55	14.80526728	14.5320709	14.70819548	12.31964897	13.4641852	12.57148858	12.49952291	12.74170508	11.67322174
DDX56	15.82597088	15.76662324	15.745675	14.44924419	14.3472297	14.33861121	12.34759209	12.32389146	11.85554396
DDX59	14.23243395	14.07599639	8.693793932	13.11289019	10.93826953	12.12826495	12.21468954	11.87151306	12.86477222
DDX6	16.73543074	16.85340662	16.98587911	16.00478295	16.95224041	16.19387111	17.77318206	16.93273559	18.41908847
DECR1	16.07690032	16.04521876	16.16700906	17.54637973	17.43754423	17.76246772	15.47679201	14.83378742	16.7130079
DEFA3	17.24696987	16.99392269	17.12528385	20.18552108	19.61006924	20.66685769	22.84220506	22.95960351	19.02507701
DEK	17.5232593	17.63670402	17.55212202	16.29682259	15.41206713	16.05115184	16.79159213	12.15946554	12.10560496
DENND6A	13.24857716	13.79252962	13.73546787	12.46151977	13.34128829	12.13368189	12.8323978	12.9263306	12.73174416
DENR	16.63182761	16.61771608	16.04724488	15.6007923	16.99088998	15.94802938	12.30526714	12.18747787	11.59784616
DERA	15.17584825	15.01744596	14.74283627	11.57449147	11.64085738	12.0283201	13.05699807	12.96241068	12.73440339
DERL1	14.89426562	15.17372697	15.25394513	16.74298442	12.37929762	12.64749908	11.94251626	12.58362467	12.33643921
DERPC	15.44415189	16.48911798	16.50662211	18.98252565	18.87560053	19.02011668	18.20693696	16.36291283	16.38409382
DES	12.1622509	11.5840907	12.8655974	11.66087652	12.18312586	19.39672859	24.38065829	24.14096787	24.1181359
DEUP1	15.75149142	15.16694042	14.85112908	11.96172638	12.1081788	12.7672131	13.48140158	11.94226084	12.74362355
DFFA	16.69436078	16.24548979	16.03325891	14.5721744	15.2078514	16.35803701	12.71156518	11.22225789	13.5296067
DGKA	11.60544097	13.06440469	11.65527142	11.61313959	12.29794592	11.71863544	13.2872548	12.87630584	12.92043912
DGKE	14.32328744	14.63510288	14.24215857	11.42315556	12.6894177	11.47565596	12.06207108	12.34159208	12.3654173

DGKZ	15.839367	15.9309112	15.97871724	15.3370417	14.44808955	15.06792073	15.44441257	12.79067387	12.5518951
DHCR7	16.61639883	16.97395428	16.87733956	17.91466528	17.82847311	17.85367054	17.33739342	12.13219234	17.94160117
DHRS4	14.33131298	14.91438934	14.93616948	14.7162333	14.64706836	12.79766047	18.28239046	18.28943346	19.04003254
DHRS4L2	14.9088309	12.00594596	12.60451738	15.19291103	10.85162387	15.37143284	12.18684681	11.89541915	11.95380797
DHRS7	13.93811587	15.37229422	15.31824772	16.63098785	16.80965777	16.33068999	12.19203767	15.54972883	16.12118767
DHTKD1	15.0676717	15.07098235	15.01574132	15.62196431	15.24859176	15.71810507	12.03855821	13.67710875	12.48310774
DHX15	17.33205005	17.31909587	17.35266561	17.08765484	16.82011799	17.30401142	13.47796465	15.72481696	15.24200848
DHX16	15.88175034	15.57644233	15.70628057	14.54622747	14.9267549	14.48794235	11.80695204	13.99561367	12.92368807
DHX30	15.59787866	15.56866006	15.56051842	15.12255753	14.91686862	14.8552333	15.42775128	15.2404336	13.0575536
DHX36	13.57182241	14.53063019	14.84716262	13.57430247	11.87211933	11.4935454	11.68328133	12.08194242	12.789297
DHX37	13.18281447	14.28238036	14.31166416	12.66842591	12.37756019	12.38749035	12.68465033	12.42399255	12.43635617
DHX38	16.26383724	15.63956916	15.88149957	13.68506298	14.87576683	14.44672407	13.01033232	17.82587523	18.90213009
DHX40	15.27448904	14.73056043	15.36881143	12.28609968	12.00800719	12.95877625	11.96211139	11.66417846	12.05586854
DHX8	15.72817863	16.45705782	16.43054417	15.4495092	15.03470996	15.67061719	11.36417916	12.23660343	13.0546683
DHX9	18.25960665	18.51348111	18.42063688	17.78060384	17.86403695	17.79974528	14.549892	15.07397582	15.40776558
DIABLO	17.81196973	17.94003846	17.8238149	18.56523784	18.43371218	18.35132344	16.78578303	11.30859145	16.5865387
DIAPH1	16.28127264	14.3465167	16.34247752	12.03064079	15.63853243	16.73741536	12.82381384	13.04499968	11.73552398
DIAPH2	12.62668559	11.76143797	11.60519501	11.64916804	18.45397782	18.55541035	11.92958061	12.35077485	18.89999885
DIDO1	15.19524519	14.80933102	13.75916928	15.72905643	15.62734971	15.3199321	11.90461141	12.07125045	12.15845505
DIPK2A	13.24669989	12.48843572	17.07464659	11.82806137	11.92462666	13.58320859	12.2993124	12.95723801	12.18469803
DIS3	14.38690104	14.31917772	13.8505662	13.96377318	12.05453009	12.57272562	11.35908132	12.21662214	12.61729808
DKC1	16.29869223	16.26604158	16.36144551	14.99566215	15.68006345	14.45062475	17.64903058	18.40697641	17.69632617
DLAT	16.65247075	16.82372311	16.77717489	15.78300126	16.40617795	14.97435096	14.36776523	14.50691327	13.91012448
DLD	18.47343899	18.3380697	18.29309646	17.62398616	19.7126646	20.06832772	17.49161415	17.40198274	17.29015604
DLG1	15.90641732	15.40144421	16.0663941	17.26198204	16.66559711	16.756974	12.18751231	12.79148559	12.40370778
DLG2	14.68145724	14.51916498	14.99882274	12.41545996	12.68378872	12.65423631	13.35418237	12.04288382	11.42481267
DLG3	15.41975953	15.05233794	15.48308795	12.513555	12.27883644	13.5490108	12.52719357	13.0881008	12.71710763
DLL3	16.7622867	16.48832397	16.3521326	11.16161013	12.55984432	11.72068768	12.65998212	13.58535989	11.38380758
DLST	18.94996601	19.11189051	19.18147771	18.48618561	18.98240111	18.38814075	19.50141568	18.91342528	18.88614974
DMAC2L	16.06576417	16.17881382	16.2343549	17.32744485	17.35788707	17.37874156	12.11924008	12.18815346	11.98708907
DMAP1	13.74558462	14.10451175	13.60703033	11.96601219	12.61688539	12.55127883	12.81852535	12.74777089	11.84463379
DMD	11.37320001	11.71259723	18.71180048	12.27930836	13.34814161	13.42506958	12.30755689	12.20752277	12.21253492
DNAAF10	15.78066799	11.3596468	12.81828456	11.83907807	11.66993588	12.16690779	11.99754973	12.9925704	12.94091576
DNAAF2	12.13848301	15.25897924	14.24798991	12.86868658	13.52711901	12.70991769	11.16175159	11.50936118	12.87019626
DNAJA1	17.19186959	17.33664952	17.1502679	15.90350853	15.20228996	15.71603974	13.08933964	15.23294701	12.23375249
DNAJA2	16.06885111	16.23539769	15.33598066	15.08536813	15.70339746	15.30106891	12.12931257	11.92798998	12.2615397
DNAJA3	15.78159169	15.37508585	15.87983488	13.09145261	13.22488816	12.95900048	11.90742984	11.72836018	12.62002944
DNAJB1	15.26441951	15.67031716	15.3874164	17.45830998	16.07895135	16.56413789	11.72498343	17.69024296	11.14863952
DNAJB11	15.40147803	14.61166262	14.87627641	12.27223849	11.84102615	13.00998821	12.32713004	12.87687297	13.43670269
DNAJB12	14.48250685	14.37871699	13.71534746	17.49932136	17.19423903	17.19599872	13.44995595	12.3647481	12.78619693
DNAJB2	14.15065791	11.75600732	12.14230308	16.47368676	16.77838434	16.2763241	12.26321066	13.19759646	11.58432081
DNAJB6	14.88223642	14.79555116	15.0202915	15.40372843	15.88093522	15.74491084	12.38238843	12.41111502	12.94455905
DNAJC1	15.61633955	15.7876119	12.0710799	11.32317915	12.30118877	11.90205842	12.555275	12.44133632	12.99826345
DNAJC10	15.36128378	15.10594796	14.45118063	11.74730365	12.09202334	11.7591322	13.64312153	12.11989501	13.04916482
DNAJC11	15.13238869	14.00428646	14.42980812	13.5539775	12.11423918	10.7407862	12.08453159	12.21145159	12.1979535
DNAJC13	12.41399192	12.53699401	11.56399035	16.5515006	17.2564563	16.10941399	12.90467794	12.25485971	12.04386175
DNAJC7	16.11434697	16.40439847	16.54316581	15.74090471	14.07821963	14.54462988	11.98472431	12.13646672	11.8680745
DNAJC8	16.44766973	17.03012218	16.97749717	17.57083223	16.81609025	17.23462959	12.22670522	12.08201412	12.01557693
DNAJC9	16.31544499	16.83056844	16.1943341	14.94018249	14.84311162	15.14218369	15.26948931	14.7096422	14.95557387
DNAL4	14.46425741	14.60370192	14.71420552	16.50332761	17.35672823	17.09496672	12.58609506	18.03019176	12.03666709
DNASE2	19.89597836	19.79830426	19.53243833	20.55733909	20.56912386	20.81345122	20.64027737	20.52001191	20.69965911
DNHD1	12.51781222	19.02306904	12.64884041	13.33236915	11.20917394	12.41439674	11.57873203	12.26194856	12.06551837
DNLZ	15.32213936	15.27550468	15.62934529	13.20411264	11.72969595	11.99483938	12.21060043	12.71680938	12.57266867
DNM1	16.08608598	16.00561184	16.18535517	14.81430569	14.52073291	12.38881533	13.24163309	11.91912108	12.51767887
DNM1L	16.93918936	16.6757196	16.59281139	15.17707202	15.34264802	14.88195761	13.50595441	13.48720076	12.67434461
DNM2	15.76911073	15.57568612	15.5839041	16.15536996	16.10061244	15.89051342	13.21184465	14.58167607	12.16384559
DNM3	18.15201081	18.22738189	18.09973198	17.20351085	17.20090342	17.75938493	11.56038153	12.71135755	16.94047102
DNMT1	16.36440476	16.31133405	16.24888366	12.54331748	13.54767501	13.21853108	14.88791479	12.47400627	13.93796931
DNMT3A	15.66057385	15.7892359	15.19981593	12.30407296	13.58020373	11.92428266	11.94882646	12.10774848	11.95208215
DNMT3B	16.1782758	14.28196609	14.16492614	11.29246724	11.4103348	12.87073929	11.8400593	13.10730681	12.67069254
DNPEP	14.85751849	15.04949149	14.01191915	17.65551961	17.62323637	17.22514421	12.49300862	12.20774844	11.97224053
DNTTIP2	15.62228712	14.74747838	14.67977819	12.09520538	12.85729816	13.59398489	11.88358124	12.52857008	12.18395336
DOCK4	15.83984435	16.66539348	16.62786474	12.10586837	14.7780381	14.59148677	12.71271679	12.49505953	13.21859508

DOCK6	13.82828766	13.12677374	13.5588613	11.53220984	12.36495776	12.33925672	12.38845864	11.9303032	11.876056	
DOCK7	15.41816441	15.76718968	15.69006406	13.45372039	14.12301039	12.99204738	11.69929387	12.56558085	13.26505362	
DOHH	13.71877792	13.51764565	13.24054007	12.83979754	12.53671905	13.50574221	13.01101831	12.10942134	12.73852916	
DONSON	13.34204987	13.14299675	13.21839326	12.92636681	11.93835152	11.82272192	13.07363192	12.45306498	12.61944554	
DOP1B	14.42869937	14.65198771	15.1220136	13.81516541	13.67601583	11.3813174	17.65046552	16.22188817	11.91440253	
DPF2	15.43829973	14.72118719	14.91993059	15.27148787	14.90415455	14.85448242	12.72325093	12.41062818	12.27903867	
DPH5	13.55204758	12.61176812	13.3093658	12.22636115	12.20072281	11.88028492	11.75260199	11.55616261	11.66742824	
DPM1	13.72538903	13.09059422	13.52840531	13.67260796	12.17706399	11.34650832	11.94715533	12.52452272	11.9812726	
DPM3	15.70976015	15.8857539	15.82892461	16.95437386	16.89263898	17.30745489	12.64862944	12.39081889	12.6968426	
DPP3	17.00534267	16.65940683	17.10124988	14.89369417	15.99679339	15.22548498	11.82428128	11.27255743	12.22749832	
DPP6	13.41915795	12.82473435	13.16041382	11.7434417	12.00641988	12.12756688	12.01615606	12.5620557	12.4250057	
DPP7	16.24670182	16.36418424	17.12122854	18.58842209	18.83185944	18.82042757	12.96248009	12.33280268	13.29935221	
DPP9	14.65286542	14.71803422	15.06439567	12.40068128	12.69489884	12.76742622	11.98505646	13.13694592	12.99230652	
DPY30	18.37662699	18.00754815	17.90666391	16.72998431	17.42839591	14.55869308	12.53178476	12.16724474	12.6866022	
DPYSL2	19.0076535	18.88375214	19.01661246	18.30515466	18.59270462	18.53816216	18.22691787	18.18272497	18.44543342	
DPYSL3	16.19115605	15.56716041	16.37448568	16.87880132	16.94695724	16.93270214	20.71795361	20.71167658	20.90085322	
DPYSL4	16.68810395	17.01688344	17.4848677	14.69831984	12.71617977	12.28206389	13.00664348	13.4650856	12.83091547	
DPYSL5	16.48913618	16.51257612	16.78569733	13.94293506	12.29457809	13.86635003	12.52779478	12.79391973	14.16286596	
DR1	15.42157229	16.30645117	16.51565794	15.07255748	12.60322125	14.64282847	12.55130632	13.67659842	12.50248501	
DRAP1	12.73160309	11.43296811	12.21244697	17.02614528	13.31404138	12.73680259	24.52112807	24.71971012	25.43613079	
DRG1	15.88929426	16.11132023	16.82804649	13.84714595	12.18888209	13.41279142	11.9032985	15.57536639	11.22480945	
DRG2	13.93556183	16.30302755	13.30320832	12.91858734	14.1560524	14.05779232	14.6695114	15.56100876	12.51306745	
DSC1	14.57114156	13.34007864	13.26462897	17.69674345	18.0323224	18.25544758	12.92341954	17.64464003	16.50742601	
DSC2	15.56578955	17.08152638	16.25894077	12.74570971	14.72877819	14.82587789	11.90351243	16.44394713	17.27245529	
DSG1	14.8950727	15.43591853	15.35400158	17.64289063	17.86891798	17.41198088	16.24528262	15.56764305	16.63738629	
DSG2	16.4453771	16.48775258	16.36959645	17.20788609	17.13533483	16.99012412	17.02594593	16.41244135	16.17949986	
DSN1	14.93843204	14.704129	15.98482728	12.72942425	13.2434023	12.48675629	12.30387433	13.13516062	11.89034249	
DSP	17.64972325	17.76016398	17.76640317	17.26669532	17.35813921	17.38193093	15.23518721	15.97320194	14.6695098	
DST	12.1065328	16.12516723	12.81468268	12.33918337	11.85983816	12.39086688	11.90408964	13.6348463	12.04888975	
DSTN	17.93532424	17.99329019	18.02031556	19.22930512	19.28800605	19.31053796	18.76277795	18.87029739	19.62478398	
DTD1	16.85256293	16.71624461	16.8915107	19.37157113	19.1344842	14.91371138	12.26443333	11.58951586	12.50307778	
DTNA	14.11101856	12.52004827	14.36805529	11.17023598	12.10572934	12.03945154	13.317124	12.16905548	12.27536455	
DTNB	15.88768899	14.54367403	15.58095588	12.4865947	11.20562566	12.06473389	12.10002371	12.68281794	12.66230551	
DTX3L	13.87830647	13.49669083	13.49052734	10.74745909	12.53477331	11.88493394	12.42896395	12.04796096	12.01858155	
DTYMK	17.78239	17.61786616	17.72292638	16.20203265	15.98270956	16.6616435	11.90431732	16.66597476	15.93615449	
DUS3L	13.17526889	12.89780855	12.92140193	12.9519376	12.83041381	12.23184441	12.56759775	12.29551543	12.94955425	
DUSP12	15.43137954	14.35290512	15.58971712	13.11165459	12.72729108	14.67756884	12.93885815	12.07266063	12.554165	
DUSP23	15.90670345	15.84392153	16.09308142	15.28568965	13.24180049	13.86760273	12.75198399	12.0448828	12.17516671	
DUSP3	16.01612188	16.00084937	16.21217329	13.65856319	14.77430109	15.26024253	16.73284904	12.17455465	16.03903729	
DUSP9	13.91501328	13.26747489	13.31245043	12.74780587	13.14960177	12.32821266	13.2213302	12.11673519	11.84490127	
DUT	18.17996519	18.14969738	18.0519096	18.9472186	18.82784658	19.0893315	18.53634618	18.78234901	19.42059599	
DXO	13.59791602	13.65187229	13.94896824	12.50068748	12.63906319	10.54647673	12.36214261	12.8146113	12.50263934	
DYNC1H1	16.86868157	16.93863016	16.93515842	16.67417118	16.68213233	16.82213855	14.89224804	15.30296633	13.84738459	
DYNC1I1	15.19178555	13.00618596	15.01088613	11.66661394	12.28254984	15.71571969	12.92430884	12.2681206	12.56721737	
DYNC1I2	17.26156371	17.25171393	17.57128393	17.626777	17.30744627	16.61480686	16.23511147	17.12753961	15.17550821	
DYNC1LI1	16.66482947	16.40903737	16.57351967	15.70300618	15.04921919	15.18387286	11.91739688	11.82342503	12.04334796	
DYNC1LI2	14.73153984	14.65460781	14.82367269	17.14526041	15.24704983	17.4383997	12.36741863	11.8353433	12.89568201	
DYNLL2	16.36957498	15.75066393	16.57156102	11.6554875	14.33151972	12.30458758	12.23727868	11.20479056	11.5007938	
DYNLRB2	19.73179373	19.90121075	19.56525757	16.26707881	13.35459695	15.09979857	17.72685901	11.74668533	17.52474424	
DYRK1A	15.41897579	15.35438749	12.69955	11.62027895	12.79506759	13.24083101	12.17896387	11.44834444	12.2590845	
EARS2	14.86489594	12.56233074	13.6972561	12.8757222	12.39469562	11.69023559	12.59797794	13.41779089	11.80790175	
EBNA1BP	16.22123799	15.89177089	15.79725227	13.80748136	14.62981305	14.95782068	14.17617394	12.78537706	12.34647996	
EBP	17.62626476	18.05370243	17.14865297	15.50119233	14.97194271	13.63801931	18.53893237	12.50063347	12.3595416	
ECE1	16.06697204	14.14093923	10.88789302	12.26634472	12.19672487	12.33408698	13.27594582	11.51113883	12.48633145	
ECH1	19.46706669	19.39698113	19.2302771	18.328284	17.8466331	18.09722808	15.9388721	18.57768527	15.3854082	
ECHS1	17.79623719	17.58011727	17.73718138	18.81840495	18.67644034	18.8539972	19.47874988	19.63666218	18.65121069	
ECI1	19.15083309	19.50759169	19.27279306	18.67978904	18.62533372	18.32198366	12.06440593	12.8575991	17.89531699	
ECI2	15.03670261	14.57272269	14.90159218	15.40415703	12.13750346	15.38145547	12.58015545	18.5769464	17.3545068	
ECPAS	15.2864627	15.50345854	15.68644979	14.48803788	11.56056218	11.51840168	12.92494786	12.1519682	12.14689723	
ECSIT	16.51039479	16.25635665	16.67751731	14.74315006	15.16831669	14.80447126	11.75269403	11.42045364	12.44058208	
ECT2	14.57056645	14.55188951	14.84933144	11.80175209	11.98926122	12.51939136	19.27663075	12.26398833	12.25827099	
EDC4	16.11596301	16.32006577	15.98971641	12.67848149	11.93384935	11.46116529	15.42217143	12.35362182	12.77263925	
EDF1	17.21550707	17.69157461	17.52239914	18.17314535	17.73201843	18.04205631	16.0109027	15.56112702	16.31113169	

EEA1	13.72337218	13.40784681	11.43406779	12.50815518	12.631302	13.15855196	13.61067767	12.51645321	10.95397838
EEF1A1P5	20.08428529	20.08009059	20.23688045	16.17411601	15.82004427	15.08485359	19.25713358	17.57760131	18.47617412
EEF1A2	20.91066851	20.84935373	20.98832267	20.59444984	20.79674804	20.70717658	19.66146852	19.77393581	20.14807585
EEF1B2	18.34334923	18.64715224	18.09827432	17.48429376	17.66441435	17.79751803	17.44066359	17.44579517	17.59144461
EEF1D	18.89299869	19.04762102	19.09339712	19.21010045	19.20824015	18.54077711	16.37760666	19.07444865	17.45066258
EEF1G	19.31175309	19.57855871	19.72347926	19.44781976	19.38177303	19.37401364	16.41548304	16.92888594	16.5151552
EEF2	18.91688824	18.9832673	18.93914463	18.24055286	18.31196269	18.21034112	17.68976153	17.51635869	16.83466787
EEFSEC	15.2333511	15.11442979	15.44386994	17.87999158	17.93057014	18.35009407	18.59229972	19.00411266	18.70175458
EFHD1	16.50662121	16.46103256	16.9220074	13.08718938	13.10813072	13.25687811	12.27061166	13.4166661	12.89456743
EFHD2	18.51461406	18.63243447	18.6036729	17.11605235	17.38065911	17.15980658	17.74283228	15.70112846	16.67830008
EFL1	14.70330014	16.36186934	16.24958366	13.13151342	12.84151475	12.49818036	12.30231633	11.91850586	12.37819183
EFR3B	15.53835844	12.3566348	13.66000761	14.10690776	12.52908764	12.30983748	13.83203085	12.05170154	12.2231829
EFTUD2	18.23858467	18.21133037	18.23450748	18.51204472	18.42268309	18.60504204	16.64578312	11.79835944	17.9874099
EGFL7	18.01790916	18.27152876	17.93609296	22.11313486	22.18352637	22.22279438	12.2650663	13.62661261	11.89213631
EGLN1	16.76298484	17.01765499	16.75902701	11.74183859	12.28020826	13.9936375	11.42131791	12.45264084	13.3464241
EHBP1L1	13.78047754	14.28663217	14.62205096	12.08037183	12.17245857	11.52536709	12.03964127	12.16313683	12.23970132
EHD1	11.96089167	14.94476187	12.25419069	12.41330742	12.59883271	11.94069937	12.08752628	12.8869574	13.16761975
EHD2	13.84007688	13.32017068	13.75204169	12.62756314	12.75863948	12.9005011	12.70686144	12.25299411	12.52645868
EHD4	17.03110432	17.04705719	17.21361699	17.58416759	17.73293591	16.76176384	11.67787599	13.09875626	12.91053965
EHHADH	14.84493816	14.48259801	15.32898822	11.98967755	11.98321494	13.47674228	11.51837866	12.62607228	12.80134729
EHMT1	15.80976916	15.73974849	15.76719814	15.71467915	15.95279442	16.3279246	12.86779791	11.53029783	12.51328452
EHMT2	14.67635963	14.78105613	14.40611685	13.66774155	15.06511519	14.52385748	12.77595246	13.32069041	12.35565052
EIF1	16.17333603	16.19732828	16.34219264	12.49367139	12.77152406	13.8806524	12.27646119	12.69425865	12.26473188
EIF1AD	13.18637484	15.98997135	16.01460153	15.53027902	12.60597119	12.76024763	12.24602011	11.56988305	12.37324025
EIF1AY	17.03537971	17.16098152	17.00722428	16.73658409	16.75694409	15.21363024	11.62038988	16.96460242	12.90466342
EIF1B	15.40966976	15.80547761	15.81445501	11.53970263	12.41574685	13.05650212	12.57263618	11.90494503	13.21757566
EIF2A	17.64003409	17.61036771	17.75409257	17.82452829	18.13909785	18.07866316	17.42345163	17.76042973	17.72554696
EIF2AK2	15.59024845	15.06046503	14.94584607	14.19727022	14.36873493	12.02546745	11.84614532	12.21339976	11.75121218
EIF2B1	15.33316092	15.45718111	15.15252665	15.16446425	15.45274906	15.06154372	12.71665274	12.20425988	13.34275578
EIF2B2	14.8172309	14.85442256	14.96723719	14.0680014	13.48137145	13.97227995	11.89290621	13.07079979	12.99031067
EIF2B3	11.78772971	11.29183651	15.02848794	12.3728474	12.62965117	12.71853036	11.63382002	13.62698068	12.38130427
EIF2B4	15.39426603	15.29529545	15.77381531	16.83632087	16.85913158	16.82643384	17.05715209	16.17096925	17.23130672
EIF2B5	16.46137259	16.77957589	14.70640193	14.99704945	14.82169515	14.75569243	11.92834594	12.37107288	13.60750249
EIF2S1	16.67875401	16.90054319	16.87839449	16.83495803	16.88314228	16.96595213	11.58055567	11.59617185	12.5480639
EIF2S2	16.09933738	16.71311622	16.35207324	15.62394186	16.24074794	15.99987251	12.41139553	11.00233181	12.32212423
EIF2S3	17.27711793	17.30439663	17.41348408	17.34917969	17.54009483	17.45711632	15.7147638	12.11607091	16.22637792
EIF3A	16.43220821	16.32360856	16.52272073	15.8049686	15.69703683	16.11236114	14.95471846	15.10585228	14.93613598
EIF3B	16.74045096	16.84652458	16.86298908	16.38104347	16.07083241	16.30200196	15.15779464	15.31738194	14.34506943
EIF3C	14.11128781	13.4463524	13.85136715	11.91871463	12.33723908	11.36386073	13.11005824	12.18149547	11.71934562
EIF3CL	16.84875622	17.01834778	16.89525491	16.46328973	16.08275366	15.20627316	14.98949216	15.68833725	14.66563032
EIF3D	15.94412516	16.33374816	15.96490467	15.63833561	16.18126916	13.9939185	15.51147353	16.1850968	12.18815871
EIF3E	16.75284802	17.00618666	17.29589127	15.75151078	15.78741766	15.8376288	13.48640517	15.42194995	10.94722327
EIF3F	17.26761948	17.384333	17.1141926	16.19841681	16.53679488	16.46590039	11.67119866	16.17602629	11.48131237
EIF3G	16.48234423	16.30372745	16.30186281	15.52693312	15.85022917	15.35277231	14.94615494	13.0426337	13.04833142
EIF3H	14.23345159	15.66380445	16.3786072	13.22388631	13.76202045	12.39531121	12.5967124	11.89935938	13.61891324
EIF3I	16.59012616	16.67308727	16.72902273	19.30303786	18.70708258	18.78494862	16.59498326	11.64609377	12.52590461
EIF3J	15.70233237	16.84179968	16.25244088	14.76019965	14.94856719	14.58703172	12.12643982	15.35957122	11.65007427
EIF3K	15.76042454	15.3762041	15.85841579	12.7480002	14.58306059	14.51625082	12.75625621	11.52956119	12.26372842
EIF3L	15.92554425	15.86480981	16.10237924	14.41098554	15.6411789	13.81187175	11.6492873	14.61521121	13.08140349
EIF4A1	18.52937631	18.45481167	18.56546236	18.6827568	18.85173384	18.53887019	19.32625615	19.31911872	16.83158781
EIF4A2	17.85366219	18.02051604	18.06652021	19.3224098	19.21381348	19.14448718	17.17604209	17.03228345	18.10080265
EIF4A3	19.44315496	19.77667799	19.71372397	19.89181298	19.85314965	19.83169493	19.65603467	19.96621093	20.01870825
EIF4B	17.55042546	17.55023915	17.56661285	19.22025039	19.16627093	19.34959553	19.8548534	19.32444785	19.58928294
EIF4E	17.56032107	17.62609626	17.45763017	13.11320888	16.28718623	16.53396795	13.91744445	12.02607107	12.80052193
EIF4EBP1	16.9498718	16.73877878	15.27285016	11.17360931	12.18623571	12.2648208	12.38864542	13.44234298	12.93871958
EIF4ENIF1	15.01438187	12.14959993	14.52233769	12.49609892	14.85748172	14.83356794	13.09093219	11.45915531	12.76428854
EIF4G1	17.24813176	17.44804708	17.35705399	18.58991626	18.55609526	18.55597426	18.34189994	18.63059615	17.91417022
EIF4G2	15.55242943	15.59650576	15.52684639	15.3000817	15.59521425	14.68883643	14.05016079	15.88701545	14.2727461
EIF4G3	14.96376479	15.09302391	14.64602788	14.90030497	16.66673589	15.34883048	12.72883114	12.20328125	11.49161983
EIF4H	18.16056046	18.43857497	18.43142941	18.06206263	18.55624291	18.01564795	19.21919757	18.00395316	17.73400524
EIF5	15.98590071	15.74043212	15.96724052	12.12232035	12.55474184	13.53387734	13.84997756	15.42119311	12.86650632
EIF5A	18.17884225	18.30388661	17.69951845	16.88606739	16.87403092	16.60091195	16.30547074	16.04858543	17.13073182
EIF5B	16.43802779	16.29075104	16.75947996	11.38628627	11.8115809	13.59353497	12.47170091	12.72240829	12.59891046

ELAC2	15.31698063	14.39186139	15.6417048	12.72664585	13.49532582	13.6219702	12.17551621	12.8504624	13.01019929
ELAVL1	19.14888402	19.11826865	19.06501836	18.15814811	17.87658649	17.96477407	17.75118747	17.0784003	16.38811972
ELAVL2	15.86349556	15.941311	16.04804843	12.23191281	12.76285888	14.0836015	12.30162105	16.98034204	12.99115089
ELAVL3	16.75533837	16.73133624	16.60928958	12.36860357	12.21579161	13.28390668	13.20892263	12.53142318	11.71930023
ELF1	14.73176204	14.26544787	15.00034595	17.76144539	16.04727303	18.28720222	18.83891609	16.90626	12.12165532
ELF2	15.31186488	15.35509449	15.42914419	14.79372057	15.0352509	15.00475263	13.17131317	12.44926949	10.99532812
ELF4	17.75776653	11.54634596	11.99136245	12.50407753	11.73734806	11.58598911	13.06396989	12.47779645	12.85583302
ELK1	14.52811621	14.34950359	14.97397169	12.2858146	12.44259337	11.74658063	11.12328525	13.39209117	11.56003429
ELMO2	14.02731642	13.3398876	13.67495413	11.42983085	11.99070499	13.08281921	12.85082615	12.25970113	11.72901231
ELMOD2	15.90759124	15.50239207	15.89455935	16.37872184	16.42328491	16.37968885	12.45695816	12.40441765	12.39729952
ELOA	15.13675559	14.99940622	15.17787592	14.54624597	11.59632151	15.30296104	12.0921035	12.40655631	12.33616663
ELOB	15.83441217	16.67476529	15.91970602	13.58710368	13.10459346	13.32678925	13.05707455	12.22479174	12.68266742
ELOC	16.77050186	16.87161486	17.15634471	16.41564203	16.02705063	16.07707557	13.37229044	13.12985956	11.94930505
ELOVL5	15.01052569	14.93946557	15.35312386	12.1303864	11.81476116	11.57170812	13.58878466	12.51997049	12.74930134
ELP1	13.98579364	14.23080306	13.75494138	12.30393413	11.93432627	12.95222407	11.86296361	12.56805819	13.64707728
EMC1	16.14026162	15.70177292	15.73134623	16.71395588	16.52214253	16.79327358	11.84716732	12.54243257	16.40435351
EMC10	15.72569681	15.48269895	16.37156043	12.29480247	13.65873586	12.69365095	11.85540428	12.66279352	12.16723529
EMC2	15.11144765	15.63170272	14.83968236	15.04565911	15.73328653	15.33584703	12.1012616	11.77666275	13.55839362
EMC7	17.33303107	16.58100837	17.07816457	16.57715259	15.93635665	15.85762866	11.88140106	12.79157052	13.62331621
EMC8	17.61464901	16.32820217	16.8639399	18.5540993	16.89089657	18.95654772	13.12301521	11.32187619	13.48273261
EMC9	14.37488299	12.09162923	14.97046889	11.65191881	13.17464323	14.84041008	12.00060274	11.91886566	12.07800507
EMD	17.94609741	18.11906768	17.99822028	20.21982784	20.30627817	20.4686171	17.78348942	18.46345333	19.43253084
EMG1	15.20315047	15.51043515	15.39220602	17.99077982	17.88717358	18.30809193	19.60359604	18.54116067	19.91817236
EMILIN1	12.32677416	11.65285261	12.62426973	16.28592741	16.51676097	15.15798651	20.09765196	20.29863062	19.31832775
EML1	18.13771413	17.62251227	18.20388185	18.14515476	14.5431986	18.8848902	12.30272236	11.86986697	12.03742742
EML2	17.81549259	18.13211514	18.31589056	18.08695593	18.13496184	17.8150375	17.28289433	12.95189347	16.56852125
EML4	17.04686539	17.24428631	17.29058881	19.32593759	19.69791162	19.61361783	18.7431844	19.16850283	19.27717314
EMSY	15.2754254	15.43376698	15.30298679	13.14526214	12.85388064	13.40222271	12.32177272	12.15626871	11.47953713
ENAH	14.24808241	15.80957247	15.82357893	15.94613979	13.36641663	16.35982179	13.29585236	12.72189261	13.0319029
ENDOD1	14.43920264	13.52760469	14.83658279	17.32974039	15.74655723	17.38708577	11.78321278	13.7653753	12.70151631
ENDOG	14.7331951	14.51203275	14.12125995	11.68977413	12.76009098	11.7600316	12.48369251	12.80286412	13.4122893
ENO1	21.87294899	21.90495342	21.8689865	18.64043294	18.71522009	18.75991315	19.22466281	19.31408426	19.32368234
ENO2	18.84196404	19.10070168	19.1690459	15.13206697	13.29505355	13.69090895	15.22540756	13.65938906	13.25984015
ENO3	16.815965	17.21257392	17.09517314	14.35932836	14.89752308	12.18967486	15.83800919	15.82906758	15.52118487
ENOPH1	15.40775292	17.38061427	15.32000818	12.25656291	12.52583703	11.95817939	11.8493246	12.27569566	12.14594717
ENSA	14.7805501	16.05026132	15.60101	16.9048721	16.60716394	17.13933554	17.99699161	19.08293159	18.96836058
ENTPD1	14.60443409	15.56516111	14.95542597	19.67766638	16.71005152	19.8800411	19.83043184	19.79503781	19.09024999
ENTPD2	16.69423422	16.49667798	16.58028097	13.57702001	12.18675168	12.77997421	11.95257462	12.69615492	13.17887893
ENY2	17.35406612	16.97059917	17.23682967	12.37748551	12.54672407	11.07113406	12.75354427	11.69623285	13.83099994
EP300	14.18425488	13.33561446	13.18766959	17.08903079	16.98949498	17.28545104	18.68349427	18.43373498	18.55383672
EP400	14.52383074	14.38004535	13.94941314	13.53461362	11.99242373	14.23029286	11.07504211	11.9343386	13.86961418
EPB41	16.43553512	16.06213333	16.2229443	18.06716966	17.30072608	17.35581241	11.51188675	16.93277477	17.03717422
EPB41L1	15.47566093	15.88546214	16.33104994	17.98386038	18.1311388	18.08362089	19.33035746	19.16558888	19.13213256
EPB41L2	14.43890948	15.04197824	14.87123493	19.01822636	19.52486593	19.39838684	18.57851346	19.52962919	20.28265975
EPB41L3	13.30819768	14.85948834	14.03475257	16.43692236	17.81284909	17.40725249	17.55370928	17.6767225	18.08227904
EPC1	12.85852019	11.71622445	12.22478855	11.70063787	11.79903251	13.49821217	18.99434597	12.17762763	18.81121173
EPCAM	15.78415067	15.76736755	15.63174756	17.31275759	17.48101247	16.7500215	14.08498648	11.91020362	12.22760777
EPHX1	16.94768022	17.32545054	17.07180871	17.4661037	17.76146948	17.67148311	17.71211933	17.58555017	17.55898156
EPM2AIP1	15.38190219	15.44561279	14.64462992	16.88787891	16.78391294	16.49451712	11.74344716	12.01730567	12.15111079
EPN1	16.3411785	16.34887876	16.15104392	15.20364764	14.96112154	15.66183042	17.74272662	17.40057713	11.96301985
EPPK1	14.95302044	14.28175062	14.29529139	11.51398307	12.61164405	12.1875898	13.23117722	12.48605862	11.75682136
EPRS1	16.82257501	16.68383129	16.77493209	16.79916718	16.77013186	16.91095453	14.48297515	14.75810948	13.69430292
EPS15L1	14.79632931	14.7184425	14.80790162	14.11850034	13.26149213	14.42150181	12.67046456	11.94852386	11.69446352
EPS8	14.75343342	14.77371827	14.22135193	12.99544937	15.34170811	13.92067068	12.53539518	12.13433305	13.46610732
EPS8L2	12.92990287	12.33161308	12.3076601	16.39792982	15.87582077	16.80092836	17.86567213	17.39968461	18.0046449
ERAP2	15.73725682	13.93999082	13.66875341	16.05863414	15.93923262	16.00243553	18.23802882	18.59349069	18.44150751
ERC1	14.86867011	14.97420731	11.96261646	12.54292278	11.74374328	11.77340382	12.80911096	12.05134821	12.08389992
ERC2	11.34091862	15.92788251	12.25107191	12.11078498	12.47271454	12.61348686	12.19958317	12.34419742	12.52940035
ERCC1	15.29493008	15.45958138	15.63581577	16.47353551	11.65452676	17.31076975	12.10971986	19.40221749	10.72715596
ERGIC1	16.65845543	17.25165521	17.05317163	17.76169317	18.68016349	18.59828113	17.0811828	12.19664359	18.23744074
ERGIC3	15.46558743	15.69957842	15.66169932	12.85522333	13.9331467	14.7227844	11.53896731	12.1801279	11.69670493
ERH	19.00433984	19.11361316	19.02794112	21.03782337	20.92901972	21.03494698	21.42037638	21.49250595	21.76565932
ERICH5	15.979871	15.50537622	15.53143409	16.80378638	15.53337014	16.15255796	13.02026966	11.86555069	12.42529918

ERLEC1	15.3977234	16.18262721	15.75952681	18.01025982	17.50239986	18.2436606	17.37220071	17.0071109	17.7747171
ERLIN2	16.62577685	16.56986669	16.48833016	17.86545557	17.98775052	17.92346978	15.06816414	16.08567075	15.86307444
ERMN	17.86745853	18.1267599	17.81028609	19.83982884	19.55981749	20.0492444	19.71818416	19.94538571	20.0828279
ERMP1	15.91530794	15.46663195	15.70808622	12.27973446	12.95937283	14.35835558	13.12386861	12.27985149	11.46613188
ERO1A	16.42233784	16.50577668	16.20708595	15.1168051	14.74337027	15.2267515	12.91621561	12.96401142	12.49638564
ERP29	19.70818342	19.59273945	19.56782745	18.778669	18.73053572	18.67811236	18.61001995	18.45760109	18.74715469
ERP44	18.0146005	17.72996981	18.03515869	19.43687989	19.53752341	19.5383725	17.0629725	17.01009426	16.90349284
ERVK-6	14.96176914	17.43576212	17.28662672	20.65250801	20.78765861	20.94918556	23.58810121	21.54884946	11.56182498
ESD	16.92922966	17.12911567	16.60597105	18.54522081	18.36151851	16.96952533	19.74083101	20.32043605	19.94888145
ESRP1	18.74055074	19.05082553	18.67426859	16.43599114	16.47489807	16.59888144	16.2205856	16.49741593	16.26831255
ESRRA	14.25501893	13.94085183	14.11435106	13.11197053	11.33580849	11.9600604	11.23891407	12.74867211	13.71206812
ESS2	15.07456345	14.6871671	14.94219701	12.52764449	12.24105616	11.95828459	12.67082091	12.4795783	10.93184945
ESYT1	15.79743739	15.49583966	15.43723229	15.38270639	15.618345	14.99264986	11.89108801	12.44330436	13.29546838
ESYT2	15.4419091	15.9131299	15.39996876	19.09707042	18.47848374	18.60689382	17.92749491	17.40707258	17.86581064
ETF1	15.57645753	16.11858712	15.94765298	14.92950173	15.17115169	15.1700487	12.85074714	16.86553289	12.08017448
ETFA	16.56827371	16.11037673	16.44116199	16.2962455	16.37815084	16.1114797	16.39154472	16.78916812	16.82691856
ETFB	17.11425126	17.5105904	17.46632784	17.17798795	17.14084329	17.1775943	14.89202768	14.1262031	11.96704058
ETFDH	15.34710632	15.51387204	15.53754323	17.54961307	18.01346974	17.82641531	19.53773221	18.74737171	12.56997675
ETHE1	15.33429162	16.23499025	16.16201511	16.55057166	16.99268157	16.85035773	16.80110522	16.32131611	16.23753539
ETV6	16.63492292	16.90280175	16.89993135	14.79703892	13.40037269	14.89574108	11.48851869	11.91676373	12.63218128
EVA1B	13.7849782	13.81194271	13.80996319	16.65083849	12.53844768	12.78216347	18.7705235	18.14652309	11.99805209
EWSR1	17.436494	17.6903299	17.58881224	17.99604045	18.50536605	18.49156869	15.46276259	13.03940825	11.18441773
EXOC1	14.69211632	14.82191699	15.27404002	16.67317852	14.83403549	12.12604128	12.33228768	12.61624981	13.15048827
EXOC2	14.32802511	14.54949586	14.51547073	11.951632	11.69121649	12.51737782	12.53834936	12.63870877	13.34227424
EXOC3	15.40507193	15.37766273	15.71431857	11.68680575	12.76513485	12.43180222	12.59598483	12.04435252	12.56872305
EXOC4	14.69501023	15.33531502	14.49256854	13.81559509	17.86651002	12.87461779	12.21705593	11.72959603	13.37568872
EXOC6B	13.23865908	12.20607603	11.65405213	17.23757907	16.79033632	16.64000602	12.34072506	13.57968594	12.62676156
EXOC8	15.43865738	15.60133966	15.16588358	16.14943133	12.55960467	16.78319667	12.55930752	18.19815987	12.90325905
EXOSC10	16.51411991	15.96225468	15.94956309	12.5135807	12.92713537	14.64406944	12.29094021	13.2492945	12.70497015
EXOSC2	14.09020244	14.64077468	14.35095189	12.05766782	13.488169	12.16387215	11.64024143	11.61654834	12.22679994
EXOSC4	15.37636331	16.02308887	14.98477137	11.87094601	11.49813596	12.25187921	13.27191732	13.20893147	13.07988817
EXOSC6	16.22377979	16.52848856	16.76944465	12.3067483	14.51476512	14.7617703	13.42220884	13.12215587	11.7148123
EXOSC8	15.54600357	15.99088416	16.06614031	12.10141805	16.09614432	15.70841915	13.2915197	11.94909947	11.48005135
EZH2	14.75850267	14.7550644	14.45088549	13.47030192	11.72851085	12.37329147	13.22625114	13.3872868	12.94114073
EZR	17.29882752	17.61477231	17.48055238	19.09004083	18.77750294	19.11621075	18.54155077	17.89800161	17.53030298
F11R	16.14477332	16.40470445	15.9784968	18.88011711	18.7249661	18.42959286	12.13591279	18.794778	13.26806387
F12	12.21671644	14.1375849	14.17519842	11.86719093	12.09235303	12.87749205	12.64950707	12.8051471	11.80614068
F2	15.68589303	14.87381761	15.50112769	16.69455508	17.84784834	17.13628817	12.26422017	12.84853289	13.10913931
FABP5	19.74779371	19.79450854	19.61826725	17.86870998	17.1977384	17.14332756	11.87395912	12.36856108	12.1807573
FABP5P3	17.40771867	16.87733209	17.21220489	16.80649997	17.03114852	15.52586699	12.23144791	11.80583921	12.28220839
FADS2	15.85444902	15.73086401	15.30760807	13.31885721	11.28735262	12.67774801	12.12863177	11.50769164	13.67370292
FAF1	14.90124715	15.70837344	14.75669873	12.28219892	13.03968669	14.02399278	12.68498638	11.71388786	12.58461825
FAF2	16.86151673	17.01807692	17.04224197	16.39057052	17.02705063	16.77219241	16.02730165	12.77779154	10.87922359
FAH	13.41005282	14.15580529	14.1404271	12.46601756	12.79438663	12.53018925	11.21106888	12.56310592	12.78176372
FAHD1	16.7067565	17.82794581	17.14403362	16.03248932	17.84739004	16.28982499	12.05663867	11.25554492	12.21445328
FAHD2A	15.11622631	15.18254287	15.17640823	15.28266778	11.91733561	12.18336873	12.4498837	12.31451598	12.8681055
FAM107B	15.51919647	15.64054203	14.36843341	11.07352386	15.67415634	14.64617035	12.86283645	11.50345247	12.93255468
FAM111B	16.04043431	16.24338623	15.49027025	12.95454125	12.30419558	12.43880956	12.21798497	11.60585622	12.42907061
FAM114A	14.74822728	15.52623414	14.75325138	17.13199933	12.85289503	17.20086641	12.79453546	12.84911811	12.46524956
FAM120A	16.80055045	16.56762547	16.97098539	18.37014464	17.78654406	18.35271442	13.39412619	16.12175178	15.95645587
FAM133B	14.38011567	14.61913366	14.11838526	12.72221486	13.11585386	16.4146659	12.63221848	18.55139669	13.0321081
FAM136A	17.91259903	16.28111854	18.19700965	14.551823	15.62853804	15.96121287	12.4899694	13.09680113	17.80244087
FAM162A	15.41714502	16.52353996	15.34898358	13.29785222	14.97232949	12.52499958	12.59109147	12.11497016	11.35319818
FAM174A	17.12635264	17.70367954	11.81008599	12.78893927	17.04213982	16.80299187	11.90043677	17.3479102	12.82430077
FAM193A	12.81936242	12.56690496	15.65237652	13.44943684	17.83153507	17.20058053	12.90146105	13.18584792	12.08650069
FAM207A	11.80261986	12.2829388	12.8295145	11.59710753	13.20941969	12.81892212	12.72910537	12.46594844	12.38092179
FAM20B	14.61151777	14.2818998	14.80089368	14.99354097	15.65611943	12.46303185	11.66478132	13.13535595	11.96245673
FAM234A	14.72336484	14.42174287	14.62567427	15.15691085	14.64794538	11.63272584	12.78770683	11.74170166	13.28611224
FAM241B	15.19425	15.35587096	15.74107362	16.89221391	16.81337482	16.55050584	18.61133164	18.32354181	12.14066523
FAM3C	15.87614934	15.74376122	15.68273464	20.23679391	18.17741779	18.19728883	12.17432086	12.71961354	12.27955012
FAM3D	12.38084957	12.61264866	12.29722644	11.90888995	12.52173116	16.30306757	12.1254232	12.03749127	12.00608658
FAM50A	17.10028779	17.08508153	17.12054518	16.40117801	16.62501289	16.36698774	15.38240481	12.44191655	11.70363893
FAM83D	14.98483883	15.93706798	15.34811729	12.78694239	13.91315734	12.68139152	12.42815978	11.51776371	11.49277265

FAM83G	11.75706	11.30343614	11.45254703	12.14308669	12.92223095	12.01707777	13.85830549	12.88695835	12.1109
FAM83H	14.3566235	13.3558001	13.21045118	12.80423748	14.45062638	12.36248037	12.05480903	13.43973018	13.74260829
FAM91A1	14.74916188	14.54167097	14.67979322	10.78071699	11.63793485	11.97881468	12.07509079	12.96383819	13.1009488
FAM98A	15.99052163	12.95663208	12.93971567	13.04954839	11.84093206	11.89403449	12.12740638	12.00198037	12.47905324
FAM98B	16.10232098	16.07917579	16.36193112	12.74486339	15.04497254	14.78942615	12.32149307	12.53101183	13.08897095
FAM98C	11.95534231	12.09101511	13.75179129	13.49935647	13.03994437	11.29757176	13.21663547	11.14008763	12.97291914
FANCM	11.62252646	14.7640982	12.02005953	12.47536308	12.54846308	12.09104203	11.75396865	12.43671784	12.03453717
FARP1	14.91997381	15.37971628	14.93310535	19.72047348	19.79640597	17.78168287	17.18422426	17.64302075	17.29769051
FARP2	17.78989596	17.6791604	17.93642453	16.29635518	15.41103097	11.18397485	12.41835552	12.15264512	12.27833749
FARSA	16.99595735	16.79763479	16.90318615	15.69311814	16.03587352	14.78433535	14.89210841	13.97244626	15.20702569
FARSB	17.24261739	17.23734948	17.00642843	15.99465871	15.93055283	16.09724134	15.53264357	15.56333292	14.81528661
FASN	17.18556771	17.20805815	17.28654533	17.0290454	17.00692978	16.9068955	17.59913653	17.35802514	17.88104359
FASTKD1	13.39758763	11.62085758	15.37765897	12.41232513	11.45951844	12.1262041	12.80238488	12.37099808	11.69896706
FASTKD5	16.09616179	15.91666477	15.3095706	14.09590095	13.6266163	13.34062898	12.81007463	10.79405252	11.87257435
FAU	20.28968521	20.21330374	20.00649747	20.77850961	20.56856091	20.71034063	18.20633945	18.45009311	12.47937251
FBH1	14.28358152	14.76833964	14.62291327	11.56963625	13.81777998	12.37479085	12.49317133	12.85516274	11.59236827
FBL	17.93141045	18.11404143	18.10965834	18.63421721	18.71442042	18.53435366	17.1673623	17.38340518	12.82457947
FBLL1	16.58589173	16.98528412	15.8666539	15.58786148	14.73017758	15.33050057	12.40389029	12.42860694	12.1448624
FBLN1	15.7264797	15.42199857	15.89743914	18.419607	18.69377663	18.38117169	20.78607979	21.21591653	20.77468993
FBLN2	14.52131919	15.00050445	15.19489522	13.00495681	12.12078952	12.28223879	13.29213646	11.77002638	13.31109675
FBLN5	15.03608231	14.28307607	14.24596644	17.14268356	17.01505398	16.41387694	20.93536455	20.72134815	21.04834085
FBN1	13.25794208	12.18057274	11.52886863	18.68662373	18.11806026	18.51264104	22.30521073	22.85164616	22.7329644
FBN2	13.10105691	14.89759224	15.07978182	20.09553242	20.29351758	20.22945237	24.39552894	24.45447221	13.30234937
FBN3	11.13387736	12.16475863	11.62894715	22.13418988	19.86445492	12.02150818	11.98476425	23.14329778	12.01517609
FBP1	13.81855065	13.57604267	14.22385326	12.72339447	13.32037532	12.6370833	12.52182898	12.217403	12.13471362
FBRSL1	14.92166191	15.10769445	15.05461349	13.17679879	12.27955693	15.13523153	13.35564235	12.43525665	11.68790422
FBXO30	14.96810093	14.50475148	14.91772764	12.08727212	12.83301443	10.96763854	13.1573076	11.10934272	12.33497549
FCGR3A	14.71579301	14.24486641	14.77787221	12.30734085	12.05789659	12.8263654	17.6677377	12.24570519	17.18871609
FDPS	16.68073032	16.4503803	16.68379845	12.72979412	12.65749032	13.61372979	12.45241168	12.32345959	12.45227853
FDX1	15.70039486	15.98060714	15.77769002	12.38278389	11.52683948	16.52310319	12.55072728	12.56684073	11.645472
FDXR	16.98099342	17.02469116	17.36345868	14.85729405	14.78337158	14.22056232	13.37686933	12.14154763	12.21322244
FEN1	18.32669791	18.20248757	18.2727357	11.47436719	13.45423066	11.22978858	12.34752046	13.07382499	14.51101943
FER1L6	12.25215093	11.28759882	12.1967641	13.74549727	12.40961809	12.45014488	24.66139687	12.48909592	24.9379108
FERMT2	15.62667919	15.66819797	15.76643858	15.76599894	14.73717271	14.81932385	16.83520634	15.61791977	16.76521758
FGA	16.15109769	16.02821497	15.63369578	16.49121012	15.66570781	16.76132456	17.55083413	17.93894627	17.65541528
FGB	17.61501932	17.58511642	17.25116335	19.19367085	19.04606014	18.77443764	21.55644082	18.95333745	19.81829042
FGD4	15.40663359	15.48604542	15.36074573	14.17943487	14.46371458	13.53368049	12.09266506	12.51097911	13.04625238
FGD5	16.76165791	17.11882529	16.8994343	18.89603658	18.95829741	19.17031637	12.70826941	12.86272011	11.97248325
FGG	15.84841493	15.88656068	15.6043618	14.69942914	15.258002	15.1329881	12.35387364	12.04519431	12.94030019
FH	17.44402608	17.21799369	17.27356006	12.37554406	15.32493896	12.36181743	11.71141478	16.40298015	15.79143909
FHIT	13.72492723	14.0279392	13.508699	12.00823112	12.5628052	14.23891518	11.52665569	12.91842799	12.48268081
FHOD1	12.25418851	13.27219594	12.37716035	12.04731497	13.63066768	12.69690991	12.38455043	11.83991134	12.91878449
FIP1L1	15.54496995	15.73692607	15.25681824	16.48474599	16.0641268	16.24866997	11.97465413	12.23798983	16.74918201
FKBP10	15.04214982	15.2445858	15.13978047	15.84216364	15.11760813	15.89876934	12.40239553	11.5527552	19.34476437
FKBP1A	18.48740195	18.43979923	18.52735424	19.76171159	19.64070819	19.5469177	20.66695378	19.36467561	20.75834581
FKBP2	19.55900442	18.91951002	20.13772432	19.02803907	18.69586561	19.0615752	18.54301332	18.36978226	19.17369937
FKBP3	18.28340771	18.46070031	18.37637908	17.06962177	17.36114258	17.0415698	11.99689782	12.11123128	12.30301544
FKBP4	17.16962572	17.30113842	17.45822434	17.03121396	16.49297353	16.38685294	13.41639642	14.2644622	14.08057402
FKBP5	16.45951816	16.30015378	16.23746924	14.68884884	14.79938397	15.15495826	11.18282706	11.36553608	12.83461466
FKBP8	15.67682586	16.14124378	16.29138038	14.89279092	17.01115558	16.08801307	12.69352407	12.73508068	12.37971942
FKBP9	16.99495149	16.9223829	16.66742033	16.93318026	16.947946	16.72670096	17.39253725	17.55555791	11.4690736
FKTN	14.63829579	10.93539334	12.88641183	12.18453181	13.13891416	12.04381881	13.59925965	12.76958314	13.00223976
FLAD1	14.90337035	14.96116143	15.09410053	13.70352088	18.1012315	12.8904691	19.66162391	21.5080605	12.93327835
FLII	15.78378925	15.39036324	15.81791255	16.2076545	15.07013078	15.80467536	15.00331707	15.81101389	15.32995843
FLNA	17.97252068	18.03416256	17.91613715	18.63607388	18.63618459	18.72868967	22.76996703	22.67277835	22.79894644
FLNB	16.65628902	16.72944117	16.585507	19.17217184	19.13926798	19.10326935	19.47767192	18.90036969	19.47837456
FLNC	15.524066	15.66407682	15.79860474	17.03265702	17.06146672	17.06148425	21.09069398	21.15585366	21.73825425
FLOT1	15.26264571	15.98969667	15.60697722	17.158072	17.41239226	17.12703668	14.61372973	15.2644373	15.2174479
FLOT2	14.7876803	14.98239918	14.64412032	16.66612367	15.98406824	16.19643462	11.43171937	12.87118348	12.59728384
FLYWCH1	14.68589303	15.13534842	14.50597955	17.1625796	16.37266411	11.50203243	12.20105843	13.02415684	12.05320505
FLYWCH2	17.36196397	17.42267773	17.52795181	16.75672328	18.41205198	17.9769697	12.49558836	12.1565592	12.52861072
FMC1	15.70173649	15.64619254	15.40374782	11.46203851	12.6645845	11.55428615	18.32325641	14.12613276	11.87390869
FMNL2	11.38207168	12.41918332	12.8627058	12.98326737	12.6933513	13.02091123	11.43390547	12.24769954	12.50409026

FMOD	12.92020914	11.88451593	13.14437148	19.2103347	19.45638412	19.20450642	11.53192008	11.39409521	12.45805817
FMR1	15.13885363	13.8990971	15.26184738	13.01771762	12.91640881	12.85210608	13.02804504	11.60339642	12.60938061
FN1	16.90185468	17.06273103	17.04989527	18.47782028	18.65722237	18.71618618	18.68837569	18.4161449	18.47909628
FN3K	12.07379637	12.14764626	14.98035829	15.71300802	12.13053122	12.40532328	11.53026453	13.5068198	12.33014391
FN3KRP	16.14681322	14.66425485	15.4324386	17.8543274	17.28922141	17.43122635	14.49395412	15.46752609	12.67068127
FNBP1L	14.57381339	15.54940224	15.26471673	13.59729246	13.51095958	14.23064011	15.62678537	11.80397174	12.21053744
FNBP4	14.90392414	14.52656991	14.65578824	12.5790231	11.41068621	12.68634527	11.9225357	12.3954695	12.47296587
FNDC3B	14.86307843	15.39480704	15.11739577	12.05869334	12.24916407	12.66156074	13.65663043	11.3621036	11.5514203
FNDC8	11.61962439	12.36100311	15.38124581	12.29077993	13.47593267	12.81243614	11.70340316	12.03988266	12.62970957
FNTA	14.99980413	14.62251445	14.63812158	11.52840395	12.6485953	13.35475805	12.43204748	17.81637449	12.59302726
FOXA1	16.36617115	15.03577081	15.46373017	17.08623892	16.599875	16.5224705	12.56944124	12.50954499	13.36060823
FOXK1	16.9358925	17.23478135	16.88262877	18.12701691	17.08626546	17.54367001	19.90298404	20.15986041	20.18515444
FOXK2	16.0845998	16.35536603	17.23385487	15.52813413	14.81712444	14.61057006	12.23235169	15.15845404	14.79248936
FOXO3	14.24345823	14.38172051	14.69865213	12.27570209	11.76659158	12.60211917	12.03439705	13.27144133	12.52212767
FOXRED1	13.50972346	14.73313269	14.60998815	12.03396566	12.34485674	12.6908563	12.50415675	11.82834265	11.66643502
FPGS	13.59586986	12.83043945	13.42791797	14.22456955	14.00989745	13.64095447	12.46184778	13.34461058	13.11997341
FRAS1	13.81344021	14.13420134	13.67897158	11.8985292	15.41702271	15.36087966	12.78849086	11.89971272	12.97626007
FRG1	12.89751833	15.44526504	14.6116884	13.88956345	12.44405703	13.30010857	11.82270341	11.4217463	12.64080395
FRMD8	14.92519493	15.3441005	14.87491443	13.17487567	12.0886559	16.66637127	11.30337124	13.15172037	11.95272123
FRYL	14.92280486	14.17824851	14.58733041	11.77074337	11.77906005	12.02767245	17.05736563	16.74461465	16.8077629
FSCN1	16.63401552	16.86430396	16.69518766	14.97933588	14.92051393	14.70684993	15.48742565	11.95265671	12.84391706
FTH1	16.00988049	15.79683341	16.55866581	20.82426149	20.93782836	20.96605711	17.99329441	16.97047669	20.09930605
FTL	19.46044162	19.67508144	19.65072462	20.1689678	20.22989048	19.19315918	18.43344833	16.81217373	18.78857381
FTO	14.09579191	14.5305651	13.95607016	12.85165538	13.52008209	12.75433455	12.16513485	13.41883342	12.01325223
FTSJ1	14.29129577	12.77698922	15.11559494	12.56394757	13.36262989	13.23609587	12.559994	12.41460162	11.51741645
FTSJ3	16.24598421	16.22008556	16.28788612	12.74489067	15.28326388	15.87020136	14.65554355	12.39676168	12.44054416
FUBP1	19.06028115	19.12588634	19.0485744	18.73173872	18.71424034	18.84483583	17.64958984	16.3910208	17.42276334
FUBP3	17.32707737	17.28919237	17.09910877	17.46441644	16.83660055	16.34695627	14.81257369	15.98772446	15.61818755
FUCA1	15.40780088	12.34668573	12.05488915	11.94102581	13.43009096	11.98752518	11.13747712	11.72176917	11.66015143
FUNDC2	17.94404203	17.87087313	17.7996706	21.21240957	21.04292858	21.25767187	19.58845792	21.16315608	11.36612566
FUS	19.01269178	19.0136659	19.34154568	18.62613684	18.88098985	19.32943217	16.22709346	11.61569003	11.62681804
FUT11	15.2835417	14.95628343	14.80594877	12.76618912	12.85646456	11.9736153	12.46339582	11.34830028	12.60793773
FUT8	15.10769089	13.79778999	14.95475128	12.54999613	12.51737185	14.06942448	13.1688618	12.97212461	12.08147654
FXN	19.63540201	19.54490554	20.28060728	18.82518903	18.30986041	18.92193715	17.46009176	17.27530158	17.00561783
FXR1	15.93430825	16.34310346	16.37758491	15.9312037	14.99411608	14.07415376	14.26766429	12.60021656	12.04600838
FXR2	17.10965005	17.13462051	16.96364235	15.75720799	15.47525144	15.58717753	12.24307702	12.45023728	11.35156215
FYN	14.54488274	12.1038495	14.42415934	12.26745151	12.59884529	11.11664485	13.0283062	13.59575017	12.40056109
FYTTD1	15.45309499	15.78053225	14.32483254	15.31620307	16.16545159	17.18420545	12.99585984	12.52580009	13.05569087
G3BP1	17.22248678	17.24460118	17.04814339	16.48920154	16.45794606	16.47223603	16.15281788	16.04877575	15.32116037
G3BP2	15.82514778	15.63490046	15.88683481	17.9164524	17.8508695	11.93910626	12.73978496	17.94253774	12.30587112
G6PD	16.06764989	16.09280664	16.08135699	15.56703462	16.56688024	16.54591281	12.67183293	12.38206385	14.15463855
GAA	17.89513862	17.92751246	17.88185241	17.89854111	17.76570529	17.38045549	18.87698406	17.42824728	16.68223782
GABPA	15.38454998	15.84078371	15.23974667	12.82957942	13.17245697	12.51935994	12.13164424	17.49828089	12.08287775
GABRR1	12.81551675	12.12045521	16.95688504	12.2824483	11.78472095	12.71162969	12.83567945	11.88526805	11.7443411
GADD45G	16.00271652	15.82466152	15.59363161	11.79701714	12.87693243	12.0789319	16.80986371	16.93191268	17.20311775
GAK	13.97564409	10.56082442	13.0611527	17.67100356	16.74275081	18.01347958	12.45683187	12.57956546	16.93130032
GALK1	15.39017315	15.43217983	15.82555031	14.83729337	14.82993376	12.07850492	12.0786832	12.05477658	11.76096376
GALNS	14.505735	14.88369127	14.4185906	13.07212298	13.10641571	13.42068104	11.39738999	12.8624666	12.70157787
GALNT2	14.99513387	16.19239899	14.70948545	16.77242439	17.06830179	12.05166497	12.51989178	12.39126441	12.50755446
GALNT7	13.60439822	14.92769185	15.45639166	18.18332738	18.16323274	18.18080004	11.75344458	16.553241	16.82077215
GALT	15.2386369	13.97235302	14.64065331	13.53612339	12.19247764	13.44946154	13.00544134	11.64653526	12.14666209
GAMT	16.37494606	16.23377067	15.16007697	14.53485285	13.88258233	12.97564821	12.88905875	12.50436226	11.80185548
GANAB	18.9280827	19.08901444	19.00520133	18.48686115	18.61300988	18.63605651	17.64873909	17.35558103	17.40638731
GAPDH	22.87295155	22.96504449	22.88770898	21.79941202	21.79635738	21.93610582	21.49253304	21.68825204	22.02222039
GAPDHS	22.15023111	22.3158255	22.33665041	19.13397456	18.85260609	19.04264057	12.81298267	11.52527123	19.58374048
GAPVD1	15.909113	15.43531193	15.54404271	15.70032798	15.36971276	15.5984165	12.01862337	12.39862732	12.3635025
GAR1	13.79356019	14.43636533	11.99055378	11.25310475	12.51199697	11.1405492	11.63496777	12.99670105	11.56227813
GARS1	15.56886252	15.63560325	15.63244039	15.31338795	12.2319304	15.72187972	12.12071301	12.05555333	14.15569878
GART	16.56582359	16.53554796	16.57191394	13.55769852	14.95071275	14.59080263	11.90609319	12.31620111	13.48347872
GATAD2A	15.32617333	15.74461019	15.21789696	14.05355526	14.13543458	14.3214053	11.90432275	12.06516706	10.99049896
GATAD2B	15.94225917	16.1308862	16.18702388	16.18713355	16.79306333	15.75838694	12.91326704	13.53782166	12.71013838
GATC	14.16144034	12.1105768	14.49324831	12.46471513	13.29117181	12.72612754	11.37124723	12.0882664	12.3766944
GATD3B	17.67497467	17.60478649	17.41192322	18.07052735	18.14188373	18.31145072	16.76248765	16.99317821	17.31293474

GBA	14.37392955	13.78267737	14.53519317	16.06762067	15.33652712	16.0436769	12.54837733	12.63514042	11.91255718
GBE1	16.78752517	16.88830309	16.73944476	15.57042443	14.35682268	13.58958122	15.54466173	14.90973159	14.02326334
GC	15.44894664	15.18922125	14.99353764	13.00601268	12.41352886	11.3762181	11.97682767	12.80729554	12.23390753
GCA	17.05534915	17.22124705	17.27306559	16.2053337	16.24712859	11.58315254	16.09210124	12.68648337	11.65325284
GCC2	14.30183227	13.16420623	12.71419648	12.42823638	12.41326429	11.82635077	12.01904132	12.91164048	11.78953745
GCDH	18.04037835	18.08717279	18.41115527	18.8624967	18.54982408	18.70782754	18.7738282	19.28514398	19.32683559
GCLC	15.67726637	15.94863003	15.11492356	15.5677884	15.28701545	14.72451536	13.39014398	12.63516539	12.26762662
GCLM	14.78793929	13.15056844	13.52837824	16.05226756	16.08207987	16.17957126	13.18025086	13.0491493	13.12968657
GCN1	15.83661098	15.73159414	15.54054149	14.74665425	14.98803543	14.91124042	14.85834611	13.92026865	14.44859773
GCSH	18.27271857	18.20650371	18.07262915	11.60361945	12.33086562	12.301919	12.39399905	14.18478769	12.16509074
GDAP1	16.88128948	17.03198712	17.22172113	16.64625621	16.70236791	15.84070364	12.45838031	16.36630087	12.68121954
GDI1	18.60128909	18.6886621	18.62192102	18.15494036	18.20026141	17.82850066	15.65095353	16.38366486	15.03397905
GDI2	18.20710235	18.27597085	18.19223539	18.63600067	18.47315009	18.74889198	17.09862718	17.29552007	17.04660999
GEMIN5	14.07646083	13.84296473	14.76671629	16.07649181	15.70145529	12.86852802	15.84694189	13.4388269	15.29444894
GET3	16.94542822	17.67745481	17.59542876	13.38375795	13.69221147	13.45930079	12.56383434	12.34548309	15.03316043
GFAP	17.27915479	17.67329668	17.80322711	22.23349827	21.68460867	21.65839911	11.80470462	13.40619246	11.87345968
GFER	15.65898503	15.20366753	15.19458819	16.53932552	16.51157526	16.36866183	12.67133277	12.93299249	17.22165782
GFM1	17.23280057	17.06650591	16.94577969	16.79606491	17.236469	17.05548621	12.36127492	12.64436855	13.41283891
GFPT1	15.46591316	15.91315397	15.39722894	16.99659162	17.38489005	17.2281206	11.87082933	12.62494175	12.70984534
GFUS	18.09396522	17.97448892	18.06385802	18.89610712	18.83333365	18.99227555	11.85394072	16.07775652	12.31809928
GGA2	14.60733616	14.6748248	14.52380947	12.08168675	13.85364962	12.75184286	12.73484294	11.73548716	12.23631302
GGCT	16.92780081	17.07451251	15.01808247	13.92054162	13.7303698	14.85637098	11.82101285	12.50426585	12.46830273
GGH	18.347917	18.33067083	18.24524373	11.92453074	11.50098517	14.28542858	12.17317608	11.84721277	12.23282553
GGNBP2	16.58208589	16.61804435	16.71947942	18.04687954	18.14317523	18.42523802	11.25670521	11.59483741	18.93149536
GGPS1	13.19522698	15.07719068	14.24874593	12.6667732	11.48037151	10.8093091	12.60384395	12.28078314	12.10402478
GGT6	11.9743029	13.48970468	14.08935563	12.44406041	12.61786943	11.81176112	13.21860768	11.14204008	13.04318513
GGT7	15.22837946	14.82569648	14.7016082	11.68146134	12.7501905	12.72446169	12.93915652	12.04764898	13.72698357
GHITM	14.08393974	12.45395684	14.48026377	12.01015839	11.65469201	13.18407376	11.81480563	11.92861526	12.21163681
GID8	14.96022856	14.02199778	14.76035687	14.60364246	14.86595352	15.31058432	12.33316832	12.00301597	12.04757066
GIGYF2	14.77808415	14.68363715	14.16876201	11.94583372	12.30677329	14.56874356	12.2860447	12.79363453	11.55116016
GINS3	16.14452943	16.08022926	15.9393722	12.81380393	11.96985042	12.69818012	13.21385899	12.79232189	11.89003045
GINS4	16.5418896	16.74249715	16.20894872	11.92976209	12.66985982	11.68051034	11.49232864	12.81142188	12.46738083
GJB3	12.24558754	12.98411565	12.41924442	13.40661454	12.58927365	13.1588223	12.38026759	11.76760334	11.79502971
GK	15.60634558	15.01913718	14.7756616	16.47227945	16.35102347	10.84968715	11.94430515	12.12944133	13.135138
GK2	14.33327634	14.23315364	14.48241736	14.16429557	12.95618867	13.16982101	12.05769837	13.09581245	12.24009692
GLA	14.54786969	12.47305209	14.30870395	14.96057133	15.1245646	14.82038105	13.12659533	12.63274142	11.6444935
GLB1	15.38329869	15.77215182	15.90919223	11.29538849	12.75461412	13.5075103	12.05494448	10.94157346	12.56744257
GLB1L	15.52683001	15.33315326	15.54902078	11.87493872	12.24279836	12.40962815	12.62934921	12.22708138	12.94114153
GLG1	14.66037337	14.5491149	14.88838528	15.90153947	15.56480694	15.60251772	13.2535646	12.94003983	11.73187331
GLIPR2	13.6767349	12.31276554	14.81378879	17.11551781	17.16533392	17.59602594	18.81544694	17.67953965	12.83626158
GLO1	18.92434491	18.85419198	18.72896024	18.71973836	18.23726508	18.37793587	18.7025874	17.28415917	19.07487642
GLOD4	17.00561814	16.93538265	16.73717199	15.29939634	14.94837915	15.53707338	12.04378319	12.90285136	11.42814566
GLRA2	12.75424954	11.7309451	12.75537865	12.64941827	12.76954412	12.46004831	12.19815406	12.67180456	12.64844129
GLRX3	16.79758466	16.97864858	17.03754108	14.65555294	14.95354981	15.61905199	19.47032165	12.91066414	14.34499134
GLRX5	17.41081181	17.48030859	17.73345035	12.33089346	12.38478316	14.85472468	12.76750265	13.3230137	12.89356343
GLS	16.5991464	16.77696041	17.14238836	17.17641319	16.76587991	17.35641399	14.94993903	19.39648463	19.32594977
GLTP	15.10574128	15.72340197	15.06928836	12.39960045	12.43526025	11.76200866	11.62889947	12.98995241	12.10323856
GLUD1	17.25606694	17.03137405	17.30205284	17.11948188	16.50630504	16.54478905	12.41489128	12.26114677	17.35183752
GLUD2	14.65339709	14.67563241	14.53913954	12.01318488	11.91469232	11.30586248	12.15219487	11.23845346	12.11409402
GLUL	15.56331828	16.21221811	13.33772734	17.09943776	16.83724726	16.218933	12.0595921	12.36291114	12.27385808
GLYR1	14.59074697	14.51463743	14.41145254	14.70224346	15.48760027	14.58762215	12.14726859	11.54113803	12.56531417
GMDS	16.89662042	17.14797925	16.82679422	16.91892065	17.08617223	16.91792577	11.96208245	16.04836046	16.48392114
GMFB	16.74892955	15.92008718	16.46345174	15.42700507	13.32603881	16.36314209	15.12591484	15.42518373	12.65024757
GMIP	13.81094553	12.77176633	13.91966916	12.62926585	12.01899233	12.83105052	12.22080286	12.29177157	11.64931946
GMPPB	16.35744185	15.61276554	16.98174295	17.6230898	17.75312914	17.67423722	18.07095929	12.58179789	12.25536314
GMPS	17.5486889	17.59741612	17.61645687	12.99421841	14.95988202	13.7045178	13.76863847	13.73452955	16.34998182
GNA11	16.97605686	16.10088367	16.1230597	15.45756455	15.17723302	15.32378732	11.76860309	12.24592174	11.70101139
GNA13	15.75076789	16.6281169	16.38029182	16.05326988	15.97169882	16.10869048	12.4011532	12.40788208	12.58013555
GNAI1	14.2401073	14.284119	14.51160506	15.9995728	15.85927706	15.74338084	12.94796205	13.25935101	12.11375284
GNAI2	17.17684951	16.77343243	16.7067967	19.63772625	19.65831587	19.63069658	12.02803941	12.0464298	19.43546911
GNAI3	14.60069939	15.74311929	15.89923194	14.67499507	15.02001862	13.46742201	11.75599616	12.01937797	12.24775057
GNAO1	15.79524744	15.99972872	16.64996276	12.60673031	12.20572318	12.33305046	12.52931181	12.71387524	11.66524647
GNAQ	15.57642909	15.94853475	15.77312634	16.40264446	16.58077401	17.03101666	13.3297835	12.9296046	12.31072398

GNAS	17.26221951	17.27039733	17.22653104	18.10291296	18.17447978	17.5353263	16.26133749	16.80285767	12.42196576
GNAZ	13.61220758	13.01347876	13.52186641	11.72461723	13.06652865	11.38665057	12.06052838	11.62923583	12.18559547
GNB1	18.54218334	18.18214831	18.52849583	18.45384548	18.09575656	18.7395561	13.39284554	17.27922503	12.29532879
GNB2	15.68094905	16.31454838	16.50973804	15.97015567	16.4556827	16.71797191	11.87866903	14.41484421	12.63220227
GNG12	15.15569213	14.81444276	14.53830632	17.64096246	17.9676476	17.93040937	10.95206435	11.93188344	11.86458945
GNG4	13.87672357	14.11446702	14.26300296	13.43189908	11.93005589	12.93117624	12.32316504	11.54306305	12.46060537
GNG5	17.40023216	17.70401974	17.82065826	15.58721154	13.3323647	12.9971596	13.79116013	11.44964942	12.16237654
GNL1	15.27272985	15.34804192	15.71343926	16.77406037	16.70923455	16.48479464	12.61180323	15.64547688	13.09577167
GNL3	15.03095282	14.77243064	15.1181402	14.28437612	15.29129864	14.94355482	12.9805126	11.92042696	12.78409661
GNL3L	13.84206148	14.19201098	13.36905331	11.63170229	12.46695885	12.59687982	11.97057175	12.11210905	13.66391241
GNPAT	14.1782758	14.04686702	13.67754416	15.48113169	15.6516535	15.77283096	16.78975169	12.4697388	11.57734886
GNPDA2	15.15999324	13.42629926	15.34914452	16.67773531	13.52313494	16.43922685	11.2580291	13.19246538	12.61716485
GNPTG	12.6141563	13.92204528	15.61933386	14.68247406	14.37973005	14.59052704	12.94119795	12.22631143	12.42038725
GNS	16.55205655	16.61357352	15.3902858	17.31641815	17.55030005	17.0739966	15.09123847	13.05703931	11.7956499
GOLGA2	15.02779788	15.09722132	15.24074496	15.40201752	13.99005978	15.52157053	11.79468708	12.94651754	11.68511928
GOLGA3	14.85864739	14.56318837	14.89278351	11.25642765	11.90156682	12.00300461	12.50419406	11.926636	13.37523741
GOLGA5	13.62540491	14.48864953	15.37133783	16.44793491	15.96460803	16.5361164	15.27252973	15.38352407	15.9785966
GOLGA7	15.35002904	14.80902435	14.32671731	11.9899058	12.92436902	12.48133805	11.55321015	12.84302349	12.0196882
GOLGB1	15.48773781	15.93030597	15.67782081	16.01399705	16.78729706	16.56285461	16.7515514	16.57282695	13.5146666
GOLIM4	15.68463082	16.40458268	15.48350691	16.55556481	16.27946977	15.20609753	12.45120314	12.04931442	12.24857379
GOLM1	14.97876471	14.87251214	14.115649	16.46881587	16.44211241	15.90587691	12.9639047	11.29053899	13.11400269
GON4L	15.97608766	12.15339176	14.70141612	16.42084453	15.05976562	14.75740381	12.45708726	11.82229502	12.3463889
GON7	15.68954345	15.63004032	15.94850298	16.46000967	16.20157295	15.41471519	18.98196738	18.27983599	18.84162623
GORASP2	15.92588392	14.79169176	16.00699601	17.07399483	16.31821926	18.10724238	13.35741119	12.12937683	12.30655322
GOSR1	15.67711008	15.47859049	15.72734251	12.92343991	14.54028279	11.42360507	11.65094623	11.96319484	12.63487955
GOT1	17.59786598	17.55337781	17.81214167	16.31083987	15.88732855	16.09539049	15.6005985	16.53343906	13.9226641
GOT2	17.50706172	17.42326671	17.60974083	17.57066291	17.88486862	17.70992306	11.83734879	11.63624867	12.06588253
GP2	14.60542599	14.78844046	15.29349253	12.86555621	12.73158253	12.13033508	11.25544154	11.682134	12.5223248
GPALPP1	15.59314061	16.3737594	14.08226729	11.40292864	13.58832013	13.94108703	13.17285423	11.87677839	12.12462008
GPATCH8	13.96446044	13.13489581	14.21769951	11.43052102	12.53991787	12.06065764	12.18775249	11.9852855	12.26125581
GPC1	15.81851826	16.27174218	16.45896316	12.36865268	12.31414817	12.69008497	12.70956459	12.58400751	13.3237877
GPC3	14.19846952	14.59848119	14.74143566	12.91475514	12.59938878	12.9200441	12.0051368	11.77208222	12.60751708
GPC4	16.51307698	16.23248489	16.00529504	11.7840902	18.94169073	18.72088193	12.96621674	19.18148555	11.38510994
GPC6	15.24068428	14.94132411	13.68727619	11.46870755	11.7606134	12.7985915	12.66285253	11.78644784	11.43267183
GPD2	16.51206683	16.4371081	16.56472696	14.37133324	14.89812169	13.32215636	13.25913369	12.60669826	12.78871456
GPHN	16.60873138	15.17014369	16.74676627	15.36450918	17.17843844	17.06639449	17.78264349	16.37062599	17.2995554
GPI	18.77952868	18.84906709	18.78686882	17.30067824	17.26822155	18.17929391	16.75531267	16.59039951	16.56132521
GPKOW	16.0339269	15.90165829	16.35460141	14.42531686	12.45963691	14.14646259	12.44082554	13.08978661	12.35828254
GPN1	15.589757	15.25823812	14.78212436	15.15922617	15.56404103	14.97647163	12.06244846	12.44639616	16.47661526
GPRASP1	11.75052722	11.92748536	12.34513517	17.38225525	12.35240611	17.38485642	11.7638557	11.44261649	12.74388419
GPRC5B	13.26935826	11.56118994	13.08108613	16.97716634	17.10259555	17.64963018	18.79938059	12.74139651	11.7632128
GPRC5C	12.28459655	14.98097471	15.09540767	12.54518226	12.74917125	12.25778031	11.76259837	11.96364899	12.74356995
GPRIN1	16.38555804	16.5690704	16.50668492	14.56391482	14.97070289	14.90080281	13.06574375	12.2481776	12.27566254
GPS1	15.23355981	15.24400741	15.64216146	14.97711832	14.35461416	14.30133556	12.22149164	13.15430496	13.52564624
GPSM1	15.78098183	15.07021482	15.60690215	14.08793939	13.51850843	14.01928888	11.77930901	12.00211795	12.15887924
GPT2	16.00290278	16.26781803	16.2692068	15.13554359	15.09572982	14.28778098	11.21703217	12.4267856	11.95058705
GPX1	15.90391248	15.85159342	15.86239227	14.99631053	15.97777033	16.31798831	12.55710698	14.54302369	12.69672057
GPX4	18.28178853	17.59848784	18.03639634	16.3646087	16.96577396	16.45506001	16.44242936	11.51830811	11.87903559
GPX7	14.99592697	15.20179408	15.25757509	12.00508277	12.6758177	11.88513964	13.25358954	11.68624078	13.56324385
GRAMD2A	12.27836612	11.49403893	11.8424223	12.57534809	12.47013111	12.4356163	11.96222943	12.36413989	11.78057162
GRB2	15.88021552	16.11615428	15.73600481	18.60673875	18.81875249	18.63824445	19.75127682	17.14485117	17.02225036
GRB7	13.23973792	13.83149066	13.26633972	12.7728639	11.33567031	12.3953514	12.63610449	12.03909302	12.32098888
GRHPR	17.78421738	17.71134792	17.57934921	15.48088984	15.53734377	15.70013998	13.10306726	13.40517845	11.9146449
GRIPAP1	16.8643253	16.88098758	17.00998325	15.69533355	14.83737496	15.42913539	13.0423926	12.69130177	11.45255511
GRK2	15.01455281	14.43319003	11.87661981	14.38329426	14.54082712	14.75319952	12.64544617	12.16430271	11.7462256
GRK3	14.66058994	14.26482747	12.02309363	11.88417131	12.37921296	12.92231343	13.27002585	12.48130377	11.87905216
GRN	15.76219383	16.12030912	15.14001967	18.64073516	18.4821786	18.48399615	17.84764879	12.46019675	18.12818154
GRSF1	16.45528071	16.2306732	16.3726842	14.99124478	16.18494996	16.32289672	11.52661097	12.18666835	12.86937822
GRWD1	14.04121394	12.99268779	13.6863302	13.16563169	12.0593349	12.30485851	12.26883948	12.15485081	12.25843605
GSDMA	12.2859687	12.93268314	14.617808	17.3342893	17.77898045	17.48550469	12.41177828	11.70515057	12.24446791
GSE1	15.03686651	15.68362102	15.60529892	12.43366365	12.45358063	12.67970677	12.17599465	12.52633817	11.54427534
GSK3A	15.21314534	15.27917911	15.92448328	12.19655901	16.29063803	12.48990866	12.89743241	11.15109484	12.24269804
GSK3B	16.58096238	16.93073944	16.48768985	16.81001732	17.42920158	17.27801864	11.53245216	12.63184471	11.284667

GSPT1	14.86826526	15.52056099	15.45606556	16.84336401	16.64801603	15.41140869	11.89028625	10.77225727	12.79240417
GSPT2	13.17655604	13.32503676	13.29046282	12.07745131	12.28560217	13.20491432	12.12670734	13.41135684	12.50681686
GSR	16.60464029	16.96222322	16.65812527	19.56788538	19.08905849	19.118364	17.34190388	12.65209182	11.91532195
GSS	16.73742914	16.94389825	16.6775662	14.92067107	15.32485995	15.10924478	16.2099797	15.38444521	15.34467893
GSTA4	16.17879775	16.46119724	16.23364942	15.78264302	17.00387824	13.73691727	11.54912334	17.29598599	18.01770147
GSTK1	14.7460832	15.04858256	17.05423592	15.0768503	15.32033446	12.13151781	12.18609827	13.57610241	11.58382644
GSTM2	16.9095858	16.68431087	16.56959576	13.08446997	13.56370548	13.03234211	11.75162087	11.61850419	12.80560341
GSTM3	16.42322013	16.61961899	15.59187756	12.37540882	13.15673233	12.69817363	12.87696655	12.51218491	11.89771853
GSTO1	14.96449149	14.24819553	16.86262528	16.4409894	18.60733796	18.69731756	13.1292615	19.01945084	12.49395606
GSTZ1	15.62773003	15.669347	15.0269798	14.87152718	14.46964278	14.77325394	18.05876387	17.93387774	18.08607292
GTF2A1L	12.96102763	16.03068379	12.95514739	11.52857917	11.86488186	13.11981323	13.31526521	12.53724743	12.59934663
GTF2E1	14.52695616	14.11940973	14.19981593	11.8514691	11.67161719	12.00335742	12.43141527	12.52894587	12.27582314
GTF2F1	16.40515526	16.45368987	16.20171842	14.0854869	13.77034441	12.77314408	19.59070173	18.54843407	18.85512101
GTF2F2	15.41131986	15.5536524	15.67830481	15.50584437	15.49080832	15.40593055	12.9464232	12.1994488	12.11014553
GTF2I	16.99075488	17.19311376	17.0092148	17.5423573	18.49620162	17.71533953	17.90026369	18.24867317	18.63369173
GTF3C1	17.07334658	17.11949733	15.70020302	15.65037913	15.54123523	15.86452231	12.49154153	15.21506964	11.95362282
GTF3C2	13.70782518	16.09123749	15.41021167	16.05279918	15.6352653	14.93610442	13.21002728	12.70459617	12.32388346
GTF3C3	15.67511941	15.579391	15.394896	12.34748669	12.95168263	11.33391607	12.73221917	12.72144951	11.35865484
GTF3C4	13.65050524	14.79156371	14.64546636	12.04072021	12.81589675	12.874128	11.73056635	11.64626011	13.40614884
GTF3C5	16.15635143	16.00099453	16.18209225	14.23186718	14.13951618	15.34557616	15.90369404	12.73644453	12.47814361
GTPBP1	14.63670679	14.56630468	15.00576179	12.14198762	11.59371438	13.00412694	11.19747791	12.815831	12.32284651
GTPBP3	14.94693	14.57936402	14.40659313	13.07628438	12.04449108	11.87809241	11.63383424	12.08644425	12.21202226
GTPBP4	15.08179459	15.0609087	15.3189671	13.34166317	13.17695891	11.51154553	11.97430617	11.46429694	12.56317981
GUSB	15.92018225	16.26951244	16.21368713	11.75725021	13.01592795	11.79931503	12.9165006	11.77624898	13.18190275
GYS1	14.96014448	15.03565287	15.17962943	17.15773952	19.39267675	17.10101422	18.16279173	18.46843017	18.69755581
H1-0	19.90492935	20.14991572	20.11106523	21.34060845	21.38510715	21.51554857	21.43211569	18.33641675	19.71903592
H1-10	18.08883871	18.15282628	17.9998064	18.39643663	18.42689331	18.30247714	19.68005282	17.91448115	18.65339163
H1-2	21.94411989	21.88215339	21.66867406	23.14135559	23.53640366	23.47454886	24.32541285	24.91168819	24.50893542
H1-3	22.13552579	22.05947894	22.0904533	20.60139152	20.61228659	20.97496861	21.22915057	21.03656314	20.43992082
H1-4	22.03591819	22.16374546	22.12818946	25.4748798	25.51016694	25.47315761	25.74355874	26.39665118	25.68219143
H1-5	16.35221393	18.30959796	11.42609382	16.31517367	18.15393889	17.80792355	12.57675289	17.49836324	18.15596191
H2AC21	18.73531474	20.10613791	21.01256783	17.73970526	18.91122937	18.47458655	13.21867142	12.49101652	12.14520273
H2AC6	11.89830252	12.54519083	18.79604909	22.57888318	22.72264443	21.57693523	12.82436789	12.95640504	11.73214873
H2AL1RP	13.92293428	14.12629382	13.9814859	20.08649238	20.15394507	20.33570059	12.98155522	11.58590439	13.08439316
H2AW	16.54157745	16.53147155	16.42850317	11.54854145	11.29503705	12.50457992	13.20686133	12.49450438	12.79570639
H2AX	25.44232858	25.39934675	25.63977666	25.11651077	25.27491135	25.71146187	25.14325526	25.41798418	25.4538467
H2AZ2	19.26193995	19.19113425	19.09409024	15.80393677	15.66150347	16.05676082	11.96275084	15.7860683	12.30943689
H2BC1	12.7096719	12.09010729	11.71763874	17.65168101	12.81322298	18.0866214	19.92856801	12.49640095	12.57240488
H2BC11	19.36479266	19.33529705	19.76893777	21.54725019	21.46074132	21.56782082	20.88257993	22.35387026	22.88098138
H2BC19P	18.56982353	18.53080048	18.95557069	17.99177165	18.13746951	18.1676899	12.39858993	12.13264726	11.47689512
H2BC3	14.68623195	14.8698756	15.40151778	14.89357122	15.04972922	12.97903901	11.71548626	19.48634196	12.53213497
H2BC4	23.20741193	23.40889076	23.41048979	23.87489329	23.44909316	24.20985893	23.5704423	23.31054408	23.04126377
H2BC5	15.13817664	15.92076856	15.0233298	22.13068699	22.73796215	22.22549727	21.4755886	12.32444793	23.30751546
H2BC9	15.85701015	15.85878479	12.84756176	22.08459957	22.63341763	19.95004677	19.61506307	12.88622038	19.53675944
H2BE1	26.26716922	26.15464191	26.2014071	27.15586666	27.2217474	27.03485074	26.69157195	26.91469097	27.06491359
H2BU1	15.52616755	15.81785325	15.47135663	18.59891015	18.81805565	18.60167446	18.26061998	18.24845287	17.69952312
H3-2	24.20853086	24.1820232	24.25162152	23.93130784	23.99396075	23.79182033	22.28688099	22.26537646	22.3193342
H3-3A	21.69171408	21.41999449	21.34838327	17.536157	15.27287726	14.92084424	11.97906093	12.32214013	11.82696638
H3-4	24.51333616	24.80663258	24.73652173	24.68867455	24.71412863	24.66436406	24.93380471	25.12967897	25.28298561
H4C1	23.86388449	23.96796189	23.97316473	23.68269534	23.57854311	23.24948597	22.77230578	24.41111717	24.53914889
H4C7	23.98296425	23.96495785	24.06546926	23.51972753	23.70663591	23.89997176	22.21203066	20.47100265	22.99746084
HACD2	15.44251777	13.07891084	15.82941909	12.51264436	12.28189738	12.01221106	12.5753751	12.98848901	12.09740613
HADH	16.57593096	16.72401207	16.53447916	16.59236111	16.87964486	16.30580257	14.85516472	12.29869465	11.81927939
HADHA	18.45170778	18.3337445	18.47722194	17.29717419	17.16958922	17.02777391	16.92184863	16.42188793	16.89496365
HADHB	18.74567649	18.77861247	18.65713131	17.81006934	17.88655575	17.96669007	13.24844843	14.37903132	13.33908691
HAGH	15.08819312	15.42324035	15.5287166	15.53441787	15.64445379	12.37000571	12.33761596	12.65659133	12.66769754
HAPLN1	16.46926164	16.40577337	16.222076	12.5768327	13.47379124	12.64763854	12.28527779	12.13042459	12.64212492
HAT1	15.47265149	16.14965322	16.66346792	15.8641729	15.80811834	16.27719195	12.12412557	12.38473841	13.15549429
HAUS6	14.55432027	15.07056665	15.33482792	15.77704644	15.3493413	14.609343	13.38435548	12.54441477	12.22980303
HAX1	15.91593194	16.15599821	16.34001699	15.86119291	16.14846293	15.22139627	12.71096012	12.38762428	12.33446774
HBA1	12.27563599	12.72805517	11.53428741	17.94566551	18.02056076	18.16497806	18.74884884	11.97571691	19.04855441
HBD	19.05538231	19.27722407	19.18140817	17.10288525	17.03019985	16.98009469	11.93320866	19.05582877	17.6506925
HBG1	15.40143675	15.67335985	16.1135573	11.33366063	13.05168619	12.92085736	12.66305837	12.52896219	11.83137815

HBG2	17.27887392	17.03757158	17.21223859	16.3347078	15.65402447	16.68060583	12.92772411	12.63929097	12.34548114
HBS1L	13.45836955	13.2583392	14.44366181	13.07604956	14.23889612	13.59979226	18.14845116	16.51742384	17.45564651
HCFC1	16.80880386	16.64238912	16.79091018	17.65529164	17.55810099	17.51074824	12.06613835	11.35706553	12.99793591
HCFC2	15.68510193	15.55929289	14.93641433	13.02194343	13.35861321	11.41677436	12.07047778	12.56846266	12.77748946
HCLS1	15.16316198	14.38035887	14.20234637	18.47943225	17.78524394	18.28376522	19.10583585	20.47455458	19.93983291
HDAC1	17.27424296	16.73774095	16.79917984	12.44720775	14.41647903	14.98257014	12.8265544	11.84710174	11.62709944
HDAC2	17.9415513	17.9876995	17.82290128	16.72925599	17.07181621	17.29002655	15.08614722	11.55583542	15.89036908
HDAC3	13.60496	14.50241103	14.94655263	13.60502401	12.55609067	11.98433709	13.02743938	13.322142	11.91656023
HDAC6	15.12901444	17.05586065	15.99842215	15.52685003	14.79273773	14.30589412	19.82978542	13.12593144	19.86591269
HDGF	18.36916944	18.41965527	18.51020988	18.33887788	18.46800353	18.19611763	16.24757895	14.6673043	12.69008884
HDGFL2	16.16949347	16.29682451	18.71073451	16.45220136	15.50086008	15.71890375	12.80027649	11.49065528	12.6932265
HDGFL3	15.62243274	15.55621276	12.5072163	12.30704677	18.41745503	18.30020197	11.78509775	13.38383238	12.86525768
HDHD3	17.72420401	17.17003996	17.63682816	18.18587598	18.13358609	17.89299251	12.78086215	17.09493117	17.79479609
HDHD5	17.08648724	17.1038691	16.90012947	15.02556505	14.34362019	14.35897237	12.25247811	13.35382293	12.73489428
HDLBP	16.70191989	16.67357903	16.93804073	17.45383642	18.10685442	17.52597414	18.07946747	16.92544828	18.12251043
HEATR1	14.26964735	13.82936026	14.18929577	11.07645968	13.10626319	12.38910468	12.74341025	11.28178703	11.79296832
HEATR3	12.89337546	13.04897217	13.02749227	13.35307002	12.18306167	12.43896514	12.78050679	13.6702779	12.09717432
HEBP1	16.94071274	16.95705796	17.11902358	17.39189173	17.3923446	17.53972695	15.5150807	12.07015164	12.29342769
HEBP2	15.55101568	15.75497983	15.40890063	16.48434819	16.54127302	16.37192378	12.21015985	14.93708615	12.34024728
HECTD1	13.01662954	12.9265855	12.6380714	11.97223926	12.89647453	12.01753836	16.87493431	12.22218322	11.61569514
HECTD3	14.392492	12.77972261	13.82154226	12.66179237	15.62475618	11.73133768	11.32171644	12.03774492	11.80395589
HECTD4	14.56319219	14.84937063	14.61191196	12.18314318	13.04783963	11.99826299	12.67848389	12.08917873	12.62555115
HECW2	12.83384561	13.16738907	12.87225061	11.77014346	11.89890518	12.03471313	12.89321404	13.07155723	12.72598341
HELLS	14.8959515	14.84240854	15.05148344	11.74976247	12.12903926	11.99799123	12.67111085	12.32054351	12.32665115
HELZ	12.29905245	11.85789561	12.12988547	10.56709153	13.1558869	12.95444925	11.70470595	11.7755534	12.39200085
HEXA	17.21997321	17.21185387	14.97391703	13.74798816	11.91571133	11.38788232	11.58822348	11.84422748	12.55844703
HEXB	14.44809422	15.47454643	15.51270701	14.18153842	15.06261136	14.24998752	12.19529228	12.41771789	11.9586437
HEXIM1	15.27224833	15.93859323	15.11383697	15.37187244	15.55373986	14.58773146	12.27844237	12.5385432	12.38904488
HGH1	15.31162723	15.60148309	15.35199676	12.55118732	11.17447528	12.8359995	13.38808774	12.3168473	12.40920334
HIBADH	15.41185732	16.11222235	15.36579965	16.46000967	17.35266493	12.74171569	17.23278993	16.6538742	11.617376
HIBCH	16.30276529	16.52390963	16.254986	17.56217471	17.47935362	17.39578579	12.13536873	15.93910181	12.6996166
HID1	14.96154516	14.7389277	14.94093657	17.80610362	17.99608444	16.91533242	18.25613638	19.36004372	18.77751358
HIGD1A	15.63108452	12.46113614	15.41737779	12.49236843	17.40212127	17.27224907	19.2507054	19.332057	19.5537417
HIGD2A	16.43456139	15.72389007	16.3376501	12.75110043	12.53603284	12.31488678	12.88411996	12.64134044	12.66432384
HIKESHI	14.90153259	15.50948707	15.18514054	13.01728353	12.49745664	12.54229683	12.48823411	12.79128143	12.10563542
HINT1	19.55957969	19.3576596	19.39162958	17.13797818	17.28572111	17.63755119	18.48344173	16.5633198	14.26822333
HINT2	18.89922259	18.9353304	18.89272699	15.8270984	14.74379135	15.89588941	12.5673833	12.72267283	11.98521293
HINT3	14.30991906	13.99013367	14.30838867	15.24732615	12.22389544	12.56606457	12.70637085	13.17542682	12.0453519
HIP1	15.28301025	15.16657243	14.91359321	15.022893	15.09518572	14.51895899	12.3788458	12.22309232	12.09012709
HIP1R	17.11257025	15.91241367	16.07907661	12.71478319	12.92783564	12.54885599	12.23839198	12.98065866	12.5429174
HIRIP3	15.8453631	16.13568412	15.46764139	12.10026485	10.83075439	11.88879502	12.52972285	12.48559211	11.84359981
HK1	16.64631884	16.66856594	16.72021038	17.6161004	17.46820408	17.88344732	16.71848166	15.81089233	16.92876243
HK2	17.26877787	16.92388777	17.14571129	16.86846824	17.02301264	17.25687312	16.47686407	14.95662688	16.86755842
HKDC1	16.60273951	16.75514798	15.61453894	12.53206442	12.69844262	12.3321739	11.93237605	13.42556645	12.10009866
HLA-A	16.76343372	16.52422726	16.56911006	16.40032288	15.68609105	15.54110573	15.30922684	14.65102496	16.24609143
HLA-B	16.39727725	15.73843259	16.40935199	17.98036621	18.7287417	18.32914996	17.64053951	12.73071107	17.97450099
HLA-C	16.2859538	16.36789754	16.76594155	15.03040859	15.20492549	15.0692366	11.99584085	11.9240153	17.08315712
HLA-E	13.49212736	13.22889577	14.03410445	12.90293637	16.4669244	16.5023433	18.64506203	11.97283681	12.28227628
HLA-H	12.02119811	14.90920548	13.07126222	13.0094637	12.64732389	12.14759146	12.81711096	12.51623834	12.20400103
HLTF	14.6589716	13.25146055	14.64599877	12.97652069	12.85232593	12.27281118	12.38471488	14.44360503	12.45697784
HM13	15.51555841	12.10848779	12.84057112	16.89915671	12.83243127	12.5743252	12.60233789	11.56246648	12.97524019
HMBS	15.10150381	15.17077633	14.7070957	13.07114847	11.86797026	12.77360763	12.90570148	12.61290045	12.83568094
HMCES	15.68351841	14.95354953	15.84065835	13.22148049	12.63267177	12.29323741	12.1507146	11.49470821	12.37165123
HMG20A	14.70061855	14.31836994	14.93093098	14.16393004	12.9753025	14.7510342	12.39199796	12.57038727	12.66801253
HMGA1	18.83147878	18.45405013	18.62458254	19.7688079	20.2361802	19.76723161	12.76802595	21.09280571	15.44444892
HMGB1	17.34489101	17.81246392	17.92347662	12.78028987	16.70846423	15.53166669	12.81733094	12.40089535	11.83308035
HMGB1P1	18.84042433	19.12451465	19.2366305	18.37999543	18.46575042	18.16392269	16.3585019	17.06885625	16.43732449
HMGB2	17.89873655	18.18189727	18.03116324	17.60261676	17.78252145	18.04648286	16.72900086	15.134955	16.6285017
HMGB3	18.12039678	18.05460127	18.17997837	15.83686071	16.30963418	16.17610327	13.09791765	13.24606987	13.52664884
HMGCL	15.27116432	14.94574906	15.72500973	15.92649911	17.0386058	15.96383742	16.35091275	16.77584574	15.6345725
HMGCLL1	12.41380834	14.79283206	14.52927133	16.91708654	16.45407415	17.05584974	12.8271081	11.72062924	11.88603108
HMGN1	18.49676755	18.24054602	18.36000057	19.04109722	18.38766646	18.81705026	11.71388532	13.06578575	17.28010805
HMGN2	19.85347598	20.52917506	20.4904464	21.86012004	21.97968362	21.70309361	11.93308114	12.15177971	12.23947555

HMGN3	16.22038279	16.13122937	15.95084118	14.97580537	12.21681766	15.95639534	11.33552658	11.79115979	12.42778827
HMGN4	16.41335935	17.35089466	17.68563548	21.16744441	21.97757643	21.35524815	13.11541306	11.85776057	18.617226
HMGN5	17.6269711	16.8619924	17.12348613	17.12172047	16.83189651	17.11553026	11.38421916	12.40369487	16.64323961
HMOX2	16.31388216	15.9465439	17.04011063	15.00637435	14.81110469	14.9592033	11.61813729	11.86356286	12.10622249
HNRNPA0	17.29502823	17.38345407	17.4036602	16.25012026	15.48273939	17.26509508	17.80894564	17.82761404	17.65079615
HNRNPA1	21.44454455	21.56639838	21.74553687	23.73550027	23.87285895	23.80015609	21.40079878	21.44600466	21.48442555
HNRNPA1	19.96229018	19.69617411	19.96066631	20.13010895	20.27821401	20.71864797	20.43033417	21.01188506	20.96703404
HNRNPA2	21.00487651	21.17081755	21.11749595	21.37736209	21.64188358	21.65697158	21.66825783	21.77543463	21.42058016
HNRNPA3	20.51761891	20.37876577	20.48830965	20.52064107	20.52308207	20.92809298	19.09193752	20.41408283	16.93967401
HNRNPAE	18.94752215	18.9560893	18.61453813	16.0604673	15.7217962	15.83705249	13.50017764	12.10145398	12.31692471
HNRNPC	19.74107817	19.92176798	19.78893793	21.58354122	21.61595448	21.7126389	19.60308544	19.42343107	19.21230821
HNRNPCL	14.64572679	14.37967756	14.11175167	12.62926613	15.46561107	15.19335758	13.33140512	11.91325452	12.02051111
HNRNPCL	19.78835052	20.0462718	19.78000793	19.41980547	19.2028248	19.51943218	18.47347539	18.86574436	19.13737852
HNRNPD	18.74987562	18.81262576	18.94536865	18.700542	18.93904023	18.97393627	16.44154341	17.07662881	16.64850732
HNRNPDL	17.97573304	17.87381937	17.85749176	17.36541666	17.46629859	17.32798536	16.28035521	16.89425333	13.78393538
HNRNPF	17.34919019	17.31260634	17.69888852	17.63846982	17.24841019	17.01197649	19.1624495	19.21501086	19.37432634
HNRNPH1	19.32160665	19.33253667	19.43295503	18.06372827	17.86143415	18.37593825	18.45817638	19.51762593	18.3654856
HNRNPH2	17.65520155	17.67202464	17.67140592	18.57089888	18.47032604	18.89209212	18.94265746	18.93411748	17.94097162
HNRNPH3	19.60211731	19.64894492	19.6649795	18.27827376	18.00379215	18.15075992	15.66413217	11.32868558	16.55335099
HNRNPK	20.20859126	20.28489793	20.22052499	20.34289446	20.79925468	20.40839095	19.57575061	19.55472425	19.80578753
HNRNPL	18.3452723	18.46023768	18.39346529	19.03844748	18.56440894	19.27103643	17.12041105	17.73745085	17.34235915
HNRNPLL	15.15422524	15.7861687	15.36191593	14.83574754	15.9469416	15.78129444	13.26767464	13.102249	11.61378443
HNRNPM	20.38839469	20.39304574	20.47810361	21.9394679	21.8904538	21.8706267	21.6913012	21.67361387	21.71518334
HNRNPR	18.72326841	18.76839685	18.71994425	18.67941373	18.10620385	18.41634998	18.20953607	17.51941508	18.05420782
HNRNPU	19.72528011	19.81324674	19.83792724	19.88181182	20.02406071	19.93273343	19.73956509	20.13320055	19.95173694
HNRNPUL	17.24234447	17.46637917	17.41053607	18.03265488	17.86040962	18.16509853	15.88288694	15.49340011	15.74462599
HNRNPUL	17.93993462	17.8937137	17.80838787	17.36640308	17.5142545	17.33306109	17.31226036	17.14942071	17.60268302
HOOK3	15.54717743	14.48931238	15.7494242	16.69080607	16.08210585	16.66761975	18.73604176	19.00327146	18.84108993
HP1BP3	18.24201873	18.32738249	18.30550589	18.11750121	18.06140409	18.4524073	16.89177583	15.68197794	16.17245395
HPCA	15.73764928	15.56313041	15.1882281	11.50439069	11.16659082	12.35488792	11.79715945	12.51661532	13.02670659
HPF1	14.02200615	13.9026311	13.41711951	12.20832867	12.61393559	12.7406821	11.94561271	13.68474906	12.42430533
HPRT1	19.16733571	19.11198557	19.07419489	16.85804338	18.0541826	17.16178025	18.55528852	18.81686984	12.49623327
HPSE	15.72094088	15.75979664	15.97333545	12.74194244	13.03477159	12.50540931	11.96257446	11.11636486	12.37546411
HPX	16.59439012	16.59708396	16.8111417	15.66020387	14.83890348	15.78308689	15.76561981	12.47298242	12.33156115
HS1BP3	14.77361859	14.09667493	14.46783902	12.05838012	13.09908788	15.54289594	12.75120829	13.68278618	12.45212202
HSCB	14.72140395	14.33078398	14.80310963	12.76656059	12.84546752	11.91195941	11.85648565	12.63068758	11.75862469
HSD17B10	18.57236213	18.68571699	18.84502009	18.02738522	18.09703905	18.06470139	17.8991789	17.44090285	18.2332442
HSD17B12	15.16149993	14.86847827	14.9691199	16.30993088	16.61618007	16.57710408	12.16463096	12.70915583	11.89025202
HSD17B4	16.27731665	16.09800555	15.92571009	14.60147274	13.80455028	14.04753326	12.4242266	11.60928789	12.12378833
HSD17B8	14.85311812	16.04924809	16.16502481	16.08407087	15.96434317	15.3232272	11.73148557	12.70197743	11.85676032
HSDL2	16.79501843	16.62469858	16.64084284	16.27993399	16.8247275	16.70596947	12.48499854	11.50223089	10.99941861
HSP90AA1	19.84518107	19.97131114	19.90622603	19.26434817	19.14963191	19.34603272	16.53756655	18.50057464	18.40182189
HSP90AA2	20.21178928	20.17182891	20.28857573	19.18398198	19.13475921	19.35172441	16.60842712	14.82799145	12.40944587
HSP90AA5	19.09960147	18.91185329	18.72234436	12.4351059	12.12722504	12.32706026	15.69600989	17.2563994	15.97991732
HSP90AB1	20.4867474	20.48078517	20.42209571	19.71892342	19.69627513	19.77216749	19.12097081	19.21662631	18.89303507
HSP90AB2	19.88071583	20.21149389	20.07185156	14.59139958	12.48099855	12.78669905	12.36222706	12.53199549	17.88098769
HSP90AB4	20.80998257	20.9535039	20.80333741	18.47955653	18.48803548	18.57259788	17.24684739	11.55668478	12.23582173
HSP90B1	19.89755524	19.90965548	20.00137664	19.84842285	20.0558876	20.03055053	18.36285707	17.90429373	18.26288187
HSP90B2P	19.8894714	19.87613397	19.82643404	19.46254523	19.39603764	19.69040452	18.35029473	12.4917804	17.97844828
HSPA14	15.46187743	15.44414725	15.54450363	11.70542987	13.12662083	12.56867741	11.87838416	13.07266853	10.74495271
HSPA1A	18.96670245	19.10219597	19.26438417	19.85408787	19.67441291	19.85962628	17.97570047	19.09721372	18.97637696
HSPA1L	21.29985134	21.33361737	21.25198471	20.66017913	20.5110977	19.8805055	19.96889186	20.1394685	20.28337269
HSPA2	16.60441787	16.4449373	16.0519059	15.77438866	15.89563628	15.27704476	15.85656772	11.8789097	12.23831612
HSPA4	15.7068712	15.92163047	15.96504269	14.59337212	15.62034217	14.99332448	12.75504987	11.55640737	13.63302731
HSPA4L	16.32512538	15.83846418	15.88875085	13.88273141	14.08134108	14.31067968	11.90518907	11.84619366	13.09782446
HSPA5	20.53175364	20.49777298	20.46719329	20.04300641	19.72850822	19.98327722	19.21827064	19.35653218	19.51677537
HSPA6	19.91703835	19.8427938	19.73284425	19.21477962	17.33327704	17.00622131	18.3811532	18.30802626	18.68729115
HSPA8	20.23965401	20.2178406	20.28152268	18.74524331	18.79155291	19.01460583	18.39564036	17.40297429	17.39332531
HSPA9	18.90976988	19.0871545	19.19866605	19.66828981	19.77230217	19.51487838	18.7528663	18.37228641	17.32328317
HSPB1	20.23474601	20.28860406	20.05685667	23.96811069	23.97265955	23.83686096	23.79289604	23.60164027	23.90919842
HSPB6	13.03323751	13.59770116	13.05793343	12.62045005	11.98149852	11.7148959	20.58975663	20.07992488	20.8025475
HSPBP1	15.70261904	15.11811437	15.73126627	11.40864392	12.34560228	12.75361863	15.95951714	11.27289841	11.76064458
HSPD1	20.60902122	20.21557479	20.53172127	19.16231394	19.290874	19.26906263	18.0565821	18.17878615	18.24103183

HSPE1	21.11070775	21.16074391	21.1979253	19.04717463	19.33639377	19.19026472	17.73917389	17.51205022	17.59970111
HSPG2	15.39698928	15.70276772	15.6782406	18.7512739	18.60686791	18.77849916	19.86341313	19.95002254	19.50108954
HSPH1	16.51672592	16.10031161	16.7143521	13.19505424	12.48143446	13.84470076	12.71907781	12.54851168	14.95923081
HTATIP2	13.55288379	14.2186461	14.33077443	12.68999752	12.61528963	11.90745768	13.20711948	11.50442512	12.10886209
HTATSF1	16.46920092	16.33597569	16.70045082	15.80920846	16.9759316	17.42830854	11.80688473	13.69513498	11.58219625
HTR1A	11.66017443	12.10489852	12.98732742	10.9054502	11.4333152	12.03676532	12.6038513	11.70561597	12.69256913
HTRA2	15.32179767	14.78375458	15.62547181	16.36889912	16.59896051	16.34169238	16.89369459	12.35572001	17.46116222
HTT	13.23270157	12.65499817	12.69730426	12.23100093	11.91029154	12.32965284	11.72876066	13.62932513	12.24439118
HUWE1	16.72980738	16.49704971	16.56287481	15.68379103	15.62274748	15.53681762	12.6998775	13.07149302	13.71118743
HYOU1	17.05464611	17.28916352	17.23289957	15.54950265	16.40406552	16.55555491	11.34663478	14.63200997	12.99661452
HYPK	17.24833542	16.42410716	17.46115241	13.31396834	12.8593133	12.60734363	12.08418435	11.63856102	12.01647317
IAH1	15.32129589	15.78362583	16.06227969	15.35950026	14.32894821	14.78824709	11.67237983	12.61311314	13.37457783
IARS1	15.3035824	15.46317188	15.54255423	12.85755955	10.78090018	13.23356823	12.531015	12.25346314	11.8054484
IARS2	16.89212618	16.9822034	16.94644264	17.26953396	17.36083271	17.1907582	17.1206555	17.24192627	17.05449567
IBA57	13.54939857	15.41256773	15.44415696	16.05342169	11.57211921	12.305131	12.38468831	12.7484935	12.31141557
IDE	15.2037503	13.47264176	15.10621238	13.71553972	13.03557278	16.01969947	12.96437347	11.28880182	14.0488871
IDH1	17.11718156	17.12829378	17.09928783	17.49930255	17.88926578	17.61860224	14.00667644	14.1047006	14.38864693
IDH2	17.79012722	17.86331197	17.63588652	17.59502227	17.66309954	17.65666236	15.17405219	13.84600383	13.72274161
IDH3A	16.74667774	16.13193662	16.33562198	14.67139925	14.92974778	15.82132034	14.88043824	12.75449534	14.89115145
IDH3B	15.1173829	15.04697917	15.67014047	14.92997584	14.660175	15.17451462	12.83112361	12.42832449	12.18199037
IDI1	15.1972652	12.46184716	14.97661306	11.44300287	11.7689634	12.49801319	12.36409244	12.4396611	12.94305377
IDNK	11.62944687	13.06423513	15.71210962	12.24651469	12.55021535	12.66114449	12.94591742	12.1581136	12.55885632
IFI30	16.60211301	16.76395581	16.91855156	15.35954937	12.90429907	12.93826583	12.52476288	12.29937124	12.61655663
IFT27	14.20275571	14.75557771	14.60475983	10.71032481	14.64420052	13.78061699	11.50894963	12.46752095	12.97832631
IFT81	13.38466135	13.2062985	13.15783877	12.10144177	13.13772387	12.79171358	12.54441419	12.32097265	12.7803638
IGBP1	15.35055657	15.46384848	15.29451799	16.72222313	16.89394618	12.40530881	12.86067771	12.45238288	12.21355556
IGF2BP3	15.73492382	15.96515107	16.09934934	21.5690618	21.50505953	11.95330523	12.97264654	12.80358246	12.00097985
IGF2R	16.83354202	16.70935637	16.81736781	16.55165106	16.57803255	16.550335	15.92861136	16.59417769	14.5998962
IGFBP2	16.28838667	16.44143305	16.11551085	15.79238964	15.56397408	15.74343318	17.71198937	17.21173364	17.84863162
IGFBP5	16.19634346	16.34957278	16.35454076	12.94115637	16.02955763	13.2111375	14.83197344	12.68126754	11.72510332
IGFBP7	15.17565516	15.32964599	15.18836517	17.30823559	17.35040259	17.26022882	19.7872456	20.21530137	20.0076311
IGHA1	17.38593047	17.37534996	17.25756693	18.06760714	18.0022685	17.77755938	19.23293336	18.94466064	17.0315601
IGHA2	15.2348964	16.90906599	16.40677476	16.81495054	13.99059116	17.70687342	12.10013394	16.37484847	15.82322685
IGHG1	17.39165058	17.28404659	17.62452714	18.14231252	18.05390631	17.87718193	20.48763239	20.45907686	20.1784731
IGHG2	18.58160749	18.95466719	18.42747832	19.0141355	19.1253039	19.15537067	18.27375545	11.76893203	18.84920814
IGHG3	16.72621988	17.22602579	17.31710815	18.11388692	18.16962246	18.4236308	17.56160729	17.82325446	18.42952961
IGHG4	17.91494701	17.76504413	18.09173805	12.67287467	12.55792385	12.5881197	12.24493826	12.90386232	11.52564415
IGHM	16.54849341	16.62867532	16.42696295	16.53959183	15.08679363	16.73823813	12.31201268	15.63256747	16.33344885
IGKC	17.55891667	17.92071002	17.67470344	20.06031961	20.24093539	19.67618417	22.74641163	22.27072848	22.36692657
IGLC6	17.85132935	18.10115766	18.04517295	20.62645677	20.86967745	20.97377659	22.7207549	11.5821481	20.6233661
IGLL5	13.83147793	13.19098752	13.94507968	12.80050624	13.44041915	15.0414758	12.75282768	11.51083138	11.3842207
IGSF10	14.56185072	14.40859591	14.67248194	12.11099108	12.7781401	13.36607674	11.83663928	12.93253004	12.92028216
IGSF21	12.42190836	16.13538511	16.49850907	15.52892587	15.37393751	13.22701494	12.8060888	13.97286235	12.49220209
IGSF3	12.92592218	12.66682528	13.86840604	12.71766522	11.60360953	12.20447659	12.91063869	12.52012652	12.20824317
IGSF8	16.1879879	16.37331352	16.15210505	17.187508	18.06033522	17.14817664	12.33150493	12.96535715	13.28120738
IK	15.7584597	15.8814425	15.7082134	15.86949383	16.16957846	15.81922703	11.94444408	12.59057849	12.40430377
IKBKG	14.42016709	14.42045864	14.93079956	14.62697793	15.22074217	12.870433	12.83239599	13.09275557	12.58808465
IL7	11.52883892	12.03679952	14.75475627	16.08510085	12.05141265	11.78590612	11.50748243	12.22093573	11.79177184
ILF2	18.707504	18.71321979	18.57406158	18.918118	18.50443468	18.28871762	18.19142127	18.4841294	18.48070271
ILF3	18.04643714	18.11214041	18.1105052	17.47483384	17.38846369	17.66021133	13.21975425	13.14136861	14.45240848
ILK	15.04116802	15.67654043	15.17322599	16.8976423	16.98993356	17.02240639	15.64461613	18.15987603	19.08327123
ILKAP	17.42142471	17.55458449	17.53571567	15.91937049	16.8306419	15.74536822	13.45053499	12.28132076	16.48656063
ILVBL	14.02831483	13.83659232	14.03587655	16.31508926	15.54840367	16.26242178	12.03284622	12.69188826	13.31930618
IMMT	17.57537219	17.36288074	17.52720529	16.83119289	17.23024435	17.37908469	12.73446756	12.67246387	15.51070997
IMP3	17.04529514	17.28597537	17.14316543	14.03114874	12.04443237	13.4978016	11.79793893	11.36641164	17.46473784
IMPA1	18.50841451	18.51701692	18.52232323	18.15035097	18.13391496	18.08741369	16.56986463	16.37982279	16.73121274
IMPA2	15.85724428	15.39339633	16.06700096	13.92355665	11.00910002	11.3135241	11.45849644	11.93829806	12.04354093
IMPDH2	14.80548049	15.90049083	15.90354161	18.1314997	17.48597886	17.69914004	16.13654763	16.78820856	15.58795345
INA	17.06654325	16.95214418	17.00443163	19.1372278	19.35113016	19.25849608	12.36476038	16.37836525	12.63047145
INCENP	13.52589617	13.65112826	14.1971278	12.30464346	11.62501563	12.9367399	12.13288554	11.3443668	12.90136662
INO80E	15.47324079	15.79599224	15.3606393	12.15819481	12.38977863	11.91699089	11.92481179	12.09676106	12.72409478
INPP4A	14.69141866	14.28140249	14.41853218	12.08988382	12.06561518	13.25116104	12.47614582	11.4787066	11.73083034
INPPL1	16.50208133	16.88305892	16.65831805	17.20508168	16.33704374	17.60429221	15.68197489	15.97809487	15.62701357

INSM1	15.24258589	15.25691663	15.18143361	12.30459678	12.79717931	13.18242014	12.33664163	13.34149472	11.93780296
INTS1	15.08232116	14.8558254	12.27563751	13.84086203	10.96549228	12.42201302	12.80728396	11.61340551	10.36198875
INTS14	14.56037242	14.49674796	14.33995015	12.16775744	12.65379891	11.61491603	12.54166349	12.4425126	11.99524102
INTS3	14.63829579	15.86244688	14.93431135	12.7736241	12.19173184	13.37724371	12.51189974	11.68001624	11.96171581
INTS5	14.11927502	14.67247511	14.18027281	12.79922176	11.51508933	12.54115018	11.88334901	11.96721132	12.29875184
INTS7	14.09243173	15.26169343	13.93983787	12.88545979	13.31122589	12.22784962	11.94047371	12.24652106	11.99008976
IPO11	15.69209382	15.32007384	12.85885714	12.2791938	12.58335069	12.20574536	12.45876473	12.70206358	12.51591306
IPO4	16.20910879	13.09834484	12.83593401	12.62585688	12.02965168	13.27984849	12.62390867	12.53323623	10.52051836
IPO5	15.26347464	15.11251128	15.31127716	14.66337718	15.10641572	15.49621853	12.29442793	11.70764088	12.47946828
IPO7	16.02592846	15.83250026	15.62177369	15.53731112	12.16014083	15.94151071	16.20362381	12.22134398	15.68864348
IPO8	14.02920568	14.47224963	14.29165952	12.64720819	12.77558294	12.35672288	12.99283398	12.12932832	11.92379509
IPO9	17.33601625	17.442516	17.1979186	16.42612995	16.0942852	16.52755921	14.8582785	15.43197705	11.92420254
IQGAP1	17.09244057	17.17465543	17.27440949	16.90552963	16.82245047	16.79798468	17.07276573	16.93280713	17.09888328
IQGAP3	14.10247758	15.97169558	15.80039942	12.7336025	11.61406487	15.85875238	12.666417	12.89368462	12.99831512
IRF2BP1	16.08069648	16.67658561	16.52820001	16.10928594	12.42795073	12.27009505	12.48967236	12.69381019	15.70947127
IRF2BP2	15.36736693	15.253327	15.21067895	14.7041914	15.34456879	14.68573503	12.59794645	12.23238593	12.27199864
IRF2BPL	17.17315569	16.65663368	17.15008318	12.61113274	12.64434398	12.22545427	12.91666306	13.64442786	11.8994821
IRF3	17.10596507	15.88583023	17.05921466	15.6726252	14.00242988	12.4307704	12.4194037	12.11505987	12.12513966
IRGQ	16.96915508	17.01551855	16.96869435	15.4133129	15.15203802	14.50506147	12.03917828	11.91742465	15.10830561
IRS2	13.34995146	16.02772178	11.87672671	16.88976751	16.39716982	17.14933247	18.9061763	19.29715804	19.14829088
ISCU	15.09874829	14.8690153	14.76094454	11.97711843	11.93774815	12.22854655	12.60817804	12.36310629	13.46454096
ISOC1	16.98319705	16.91331625	16.95039344	12.38888187	15.85043655	14.99184056	12.05312933	11.87097303	12.3692756
ISOC2	14.07705253	15.24876094	14.68793882	12.93923051	12.40898285	14.50303511	13.21481584	12.87002196	12.07803356
ISY1	16.15226161	15.99912397	15.06165785	12.98637862	14.83277656	12.95865268	11.97279497	12.51935445	12.02559488
ISYNA1	16.42830547	16.30492141	16.53261923	13.07091041	14.01993908	14.95825664	13.06036994	12.48244254	11.49648677
ITCH	16.05265	15.30816105	15.6208581	16.3288502	16.12631863	16.5381372	17.53771902	17.43334739	12.41575922
ITGA3	15.98436119	15.09600266	15.55649596	15.83322025	15.14795686	15.95730937	11.66794403	13.27677724	12.69190121
ITGA6	16.16961871	16.19166844	16.13883805	15.68139398	15.6987614	15.66707497	15.30170483	12.14187253	15.65955993
ITGAV	15.4443723	15.59770022	15.23812546	14.921673	13.66906147	14.20609753	17.8122654	12.9157806	17.21197607
ITGB1	18.68140719	18.55374449	18.40163186	18.4005571	18.3618865	18.48123963	19.29723299	19.81078181	19.81519413
ITGB5	14.69114851	15.36801464	11.95265474	13.99667176	12.33320507	12.66894095	12.94339257	11.87346524	11.34287234
ITGB6	18.54594599	18.2782323	18.34658947	17.04681091	16.53930703	17.33206744	18.36040292	18.15034074	11.33076759
ITIH1	13.95711435	16.83067324	16.97918524	11.66745987	14.65852488	11.36547153	11.22933288	12.89919372	12.71890862
ITPK1	15.23733461	15.3194119	15.39801069	15.80257669	12.18106727	15.93208064	12.15970346	12.53919918	12.2504843
ITPR2	15.57447752	14.95143578	15.17609724	12.02151011	17.12183859	11.19854423	12.16774046	12.12855282	13.98918252
ITPR3	15.4130345	15.80026606	14.80874666	15.58193408	16.18552807	16.24098026	13.42407727	15.1169649	13.16418784
ITSN2	16.15923658	16.07208176	16.2976758	12.27906341	12.14849853	12.6004452	13.03683018	12.04660533	11.98102361
IVD	14.98148282	12.88298122	16.07110608	17.78895663	18.38233292	18.38188733	17.12872055	18.19183408	18.52795092
JAK2	12.13198163	14.46285027	15.57054257	12.24474663	12.59329971	12.94898878	12.06722973	11.45327045	13.24243702
JAKMIP3	15.75008723	12.17209278	11.60965647	12.81573911	12.25797908	12.56051374	12.10258856	13.72971984	12.95458533
JCHAIN	15.54911243	12.38760936	12.63389575	16.91730342	11.42671041	17.13952303	12.32035185	12.77487113	12.87623728
JMJD6	15.47879452	15.1382808	14.00521723	12.12297343	12.86562518	11.86421598	12.19712753	13.65878774	11.85820879
JMJD7	12.24655628	13.65253903	13.27525041	12.76117542	11.93125449	11.91260085	12.16075968	11.78003891	12.70557984
JPT1	17.90053048	18.10197188	17.91772377	18.66028195	18.61021602	18.56297879	16.06662519	16.26891973	10.98938531
JPT2	18.3233507	18.40051245	18.20337291	19.99513527	20.18557043	20.11411999	19.38314421	19.50053867	17.18496358
JUP	16.72806479	16.85710983	16.80868773	17.30452071	17.42256438	17.28822836	15.58618875	13.56855844	15.4106049
KALRN	15.70864842	15.50082647	15.79106519	15.71642505	15.02335498	13.38735857	11.18603206	12.45327934	12.12414981
KANK1	15.01434588	14.63852417	14.85281639	12.46115639	12.38803256	12.99634819	11.574804	12.78670924	12.91544027
KANK2	14.63327356	14.59026877	14.64805999	16.21506964	15.95309549	13.68055116	20.56739743	20.62044404	20.38344942
KARS1	16.1998667	16.77429038	16.57748593	13.89074656	14.65544518	14.95021215	12.41200438	12.23255	13.21927843
KAT7	14.6307911	14.15430142	14.8770207	12.70842006	11.5084974	12.59736259	12.74391223	12.59747888	13.1745091
KAT8	14.34005535	14.35083146	14.6360126	12.65573932	11.79130253	12.47075304	11.96285008	13.90236862	12.52329799
KATNAL2	19.44944587	19.25235038	19.54315443	11.82717725	11.84968918	12.61578138	12.7286157	18.44819515	12.21369001
KBTBD3	18.19450813	18.36770234	18.12981856	20.91570943	20.84284495	20.91212781	19.71778825	19.72490238	20.54246903
KCMF1	16.39721515	15.99428015	16.51199073	15.23590355	15.69341967	15.48618311	12.94304645	11.91074758	12.11279868
KCNAB1	13.54615897	12.21742984	12.82783336	12.05318496	20.14451887	17.5195321	25.09545754	25.3047554	25.17721433
KCNC2	12.06277649	16.84117744	12.47487831	12.08370058	12.75140661	12.21355979	12.27820886	11.64690437	12.16491321
KCTD12	18.4153007	18.38893519	18.25605299	17.16374725	16.12144819	17.71870496	16.38674763	17.79292445	17.60595174
KCTD15	12.73790979	14.34874426	13.97871476	11.31411431	12.96098063	12.09167076	12.63984948	11.06231863	11.19982679
KCTD17	11.09478661	16.46740458	16.71817462	17.6417199	13.05350352	12.01678423	13.10409157	12.13505548	12.34946464
KDM1A	16.76794243	16.82960216	16.88511655	11.91083304	12.37846229	11.6143799	12.22209926	11.33795585	12.16349553
KDM3A	14.47904231	15.28332997	14.59328442	12.82442341	13.30969859	12.19380777	12.37824238	12.55985344	12.62614807
KDM3B	14.91125292	14.82340173	14.38842863	15.43784367	14.05424789	15.5671047	13.22556526	11.43334033	12.72592999

KDM4B	14.76866273	14.6809463	14.70242426	12.16864661	11.95259354	13.18040676	12.02419942	12.2337231	12.50586876
KDM5A	13.76423921	13.72679084	13.58434524	11.75326173	12.5183844	12.1414467	11.90310849	12.28225284	12.94463318
KDM5B	16.190273	15.71028369	13.2445994	12.5846264	11.03634507	12.57585682	12.43421117	11.88852008	12.75900479
KDM5C	14.81757126	14.72499439	14.52552615	13.32206173	12.38515637	14.37133125	17.41149708	12.08278599	12.72460604
KDM7A	15.76706157	11.91455326	12.09463546	12.32111605	13.1364448	13.45143637	11.56033996	12.89902452	12.34042265
KHDRBS1	19.91945318	20.52710138	20.28098292	21.51140829	22.31155736	22.23318337	22.38547255	22.77987402	21.3321718
KHDRBS2	17.84809237	17.91189666	17.69249224	17.94526961	16.99096634	17.66768111	13.2702428	12.11525117	12.54776471
KHSRP	18.54639831	18.19409552	18.2962284	18.88361142	18.95141113	18.70707281	18.77447405	18.52244351	17.19450945
KIAA1109	12.52538391	15.6538972	14.55679239	12.34809752	12.45767952	13.16088012	13.11852983	11.82812875	11.21587707
KIAA1143	14.94725053	14.82540085	15.67802012	16.64559178	16.98926235	16.08155368	17.83086262	18.55419198	18.79889082
KIAA1191	14.91978647	15.34581394	15.7541545	12.09242701	11.39724053	16.12985665	13.06843245	12.12658167	12.02222377
KIAA1217	15.14109037	15.49347396	14.82604227	15.12577583	14.84853735	15.00386163	12.73424825	12.80646932	12.97703947
KIAA1522	14.00681597	14.92921645	14.28740542	17.15846892	16.4026787	17.00094783	12.7830157	12.83217194	12.59769165
KIAA2013	15.36927248	15.84880572	15.5831729	12.57632996	15.59998383	15.25106462	13.0606393	11.81703398	11.66746839
KIDINS22(	15.78468282	14.8174188	14.89140546	14.39647053	13.78647807	13.34125155	11.80949279	12.95895806	11.87811312
KIF11	13.52136985	13.97263028	13.29791402	12.34691586	11.78130428	12.93562404	12.15427207	11.91427909	12.56523249
KIF13B	15.60620827	15.00038359	11.58728312	15.1545069	15.03692396	16.64177596	11.44136765	11.68165571	12.23156431
KIF14	11.77529766	14.23961938	11.81448461	11.9333869	11.44211662	11.98533224	12.90990597	11.10059298	12.19293728
KIF1A	15.52434422	15.4875936	15.41588596	12.50670201	13.67138332	12.91426935	13.07266554	12.66449082	14.98076571
KIF1B	15.85341072	15.33954924	14.8992302	14.27474678	12.88682691	13.76047143	11.98087375	13.18227855	16.09278096
KIF22	14.1669553	13.20860213	12.53389029	12.7653083	12.44435797	12.13650884	12.74598552	12.91196969	11.68751674
KIF23	16.78884431	17.06831023	17.11621648	12.03392171	15.64246862	15.47022332	12.29747382	11.09736055	12.17505165
KIF26A	12.24515229	18.51432709	12.43338343	11.92899767	12.10206167	12.54443801	11.92095007	13.58641331	11.85343164
KIF2A	15.83083635	15.82963164	15.93186662	15.95939553	14.45679279	15.70216836	16.74268999	12.84625861	16.42127581
KIF2C	14.18666834	12.51101502	13.78982358	12.20598167	13.51321729	11.96749657	11.79861482	13.09470692	12.09091054
KIF3A	12.47075101	12.81556522	12.90013762	12.67082828	11.20403715	12.22571015	12.34525261	12.05914511	13.25829781
KIF3B	13.74900615	12.00965675	13.2171174	12.89636426	12.40365064	12.73403112	12.5377697	12.67876925	12.93375426
KIF3C	12.47006679	14.08938257	14.37340024	14.32191052	14.60430858	14.75397902	11.91099076	12.38215988	12.20051496
KIF4A	14.69816885	14.90168123	15.14453297	12.50778497	13.73015769	13.91839272	12.09498842	12.61971842	13.52150348
KIF5B	16.69148143	16.74448628	16.59278746	15.14593983	15.5910712	15.6952493	14.8267118	15.93501899	16.28025531
KIF5C	13.07385561	12.70470609	13.5521664	12.40691132	12.39668637	11.7779243	11.66938084	13.18103799	12.26958393
KIFBP	15.75860653	15.53543467	15.9695254	15.90608868	16.49895492	16.07865279	11.87295031	12.30966243	12.77640253
KIFC1	15.626771	14.7762442	15.42665247	12.29956905	13.5676959	12.12439622	13.83861147	12.34277415	12.37753195
KIT	14.28930414	12.4353199	14.77265932	12.37494416	13.21226863	11.78429076	12.04853623	12.80436262	13.24542676
KLC1	15.2370956	15.81458534	15.36053625	14.63242589	14.25406086	13.72229767	13.21464356	12.68641624	13.15197157
KLC2	16.47423193	16.23456339	16.34681024	15.34202476	14.96329966	14.89176396	12.50848664	12.37268	12.26126524
KLC4	15.67206551	14.09306484	13.19215802	16.23433321	11.58050818	14.52332418	11.89436197	16.6878138	11.47404648
KLF13	14.57269441	14.61327058	14.11791759	12.58047953	12.19509991	11.54605503	12.61202032	14.15811551	12.00159867
KLF16	16.48081469	16.48442837	16.74329118	18.78372313	18.39668126	18.2230627	18.67984028	18.00893287	18.2650197
KLHL33	16.61935978	13.37125862	13.15914363	12.89702094	11.99649216	11.75403187	12.56358965	12.19614687	12.43610625
KLHL42	15.58372404	15.55956636	14.52574991	13.16273798	12.43108177	11.39241345	12.29859043	13.77031698	13.10482783
KLK3	11.33623915	12.90586335	12.13883832	17.07198813	17.32235861	17.51309253	21.58538051	21.30746406	21.49478906
KMT2A	13.58270496	12.86782326	13.60405358	13.11936429	13.84065025	12.42460413	11.64654124	14.13077028	12.56775159
KMT2B	15.94234051	13.45113589	15.70206429	12.40455169	12.56293606	12.01259077	12.66373418	11.85226295	12.83793204
KNG1	15.85951666	15.70169858	16.06053506	15.76298711	13.87209466	15.05886514	12.25918537	12.34964723	11.9529395
KNOP1	14.04227927	15.77244677	15.18002009	12.92903849	12.90786333	13.0359543	15.92870217	11.89266708	12.54698394
KPNA1	16.28733955	16.26045193	16.45105152	16.75726702	16.38340816	17.1612368	12.34851408	12.97596883	16.29420628
KPNA2	16.76005611	16.54853331	16.54255102	12.19379909	11.24516916	13.4702616	11.63949522	14.91022685	14.50283957
KPNA3	14.76036016	14.2970022	14.12043406	12.63229164	11.85163223	11.15004134	11.59202369	13.08405426	12.22756402
KPNA6	15.62342808	15.50768352	16.83528457	12.0230798	13.49184908	13.34426025	11.96664022	11.92666447	12.35074011
KPNB1	18.48895979	18.4698336	18.44624743	13.68288232	14.15491504	13.6326544	13.2743299	15.04886658	13.98781633
KPRP	15.04005523	14.69237106	15.33555415	19.55024713	19.68297059	19.47307288	12.56377328	11.4109523	17.00650415
KRAS	15.26775644	15.41268883	15.5961457	17.81620358	18.03181827	18.07629671	12.79984016	12.81688231	12.23738798
KRR1	17.28064808	17.11910363	17.26896957	17.89090628	17.83657777	18.00544181	17.62436204	18.65001528	18.19627581
KRT1	19.64658478	19.8111053	19.76699599	19.91131893	19.83373474	20.27185794	17.32386863	12.39436766	12.66013711
KRT18	18.21926159	18.36561867	18.3375521	21.90053244	21.79729554	22.04879522	22.06965153	22.07524759	21.75844004
KRT9	18.97444667	19.07635956	18.72374145	23.01441333	23.1467974	23.23265848	22.00768654	22.11709161	22.17064578
KTN1	16.03242195	16.05565896	16.19556519	16.88255327	16.40849244	16.26012085	12.37227503	14.37362675	12.03692087
KYAT3	17.03217121	17.25258719	16.78578661	19.51269598	19.53035064	19.53841058	19.03327344	19.30293329	19.59145489
L1CAM	15.2729856	15.38115203	15.14982804	12.59387712	11.44356031	12.522601	12.45832072	12.55969335	12.4985882
L1RE1	16.19361442	16.02979583	16.07686947	17.04780942	17.18200506	16.78973027	12.53426309	13.42291702	10.92351649
L2HGDH	15.04224691	13.64152278	14.61329093	13.42331346	13.62648809	14.26870804	11.99340565	11.7861714	12.25685208
LACTB	11.74642433	13.41084115	12.48483298	12.23047767	19.10158128	17.64826821	12.92339903	12.21005226	11.86500425

LAD1	13.98511432	14.50168064	14.45999758	12.95287769	13.58774218	13.36889012	11.63374145	12.61270918	12.12511849
LAMA2	10.5558189	13.18661026	12.42018803	19.23473711	18.92780442	19.1075038	16.91745036	17.32044603	17.76564271
LAMA4	11.7276851	13.08543767	13.05549043	11.76576766	13.40836483	12.58397776	12.42610813	12.18426615	12.56934734
LAMA5	14.30653568	13.33718305	13.30778405	17.09252589	16.398933	17.17731498	17.65216586	16.94696405	17.8202757
LAMB1	14.60865986	12.62867035	14.64510438	18.07201061	17.92823747	18.38115487	16.65974187	12.67365789	12.40617899
LAMB2	14.29237465	14.62582641	14.51701744	18.16318934	17.88159588	17.41101338	19.96447572	19.26499635	19.67417037
LAMC1	15.01308021	15.49096411	15.44926492	16.10711523	15.57202963	16.00190407	16.1705537	17.43653549	15.51199791
LAMP1	17.86870609	17.86580035	17.73196765	17.1354094	17.42335564	16.63330695	17.51733596	12.16755158	11.95019937
LAMP2	17.08309064	17.00506477	17.23114008	16.74121384	16.56417491	16.36026551	17.38216969	12.21220441	17.74811202
LAMTOR1	16.37175391	16.78632533	16.45598254	16.18435995	16.78705174	17.00067419	16.48727263	15.26277616	15.43099264
LAMTOR3	15.28826264	16.37082236	16.33262045	11.38422258	12.77754354	13.51207235	11.39890385	11.54452873	13.09093291
LANCL1	18.09495295	18.17312616	18.23349894	16.37527692	16.6254941	17.35357288	11.86934939	16.51382328	12.62022173
LAP3	16.34102315	16.29386803	15.97646043	15.20059933	13.68548895	15.2589748	12.85565757	12.19228615	11.35142872
LARP1	15.90252712	15.95926351	15.67365431	13.67353411	13.46125658	12.5124953	12.4740955	11.93645121	12.63536804
LARP4	13.21036244	14.03150549	13.54065244	12.95553184	12.68075069	12.00627023	12.62058645	11.91889951	12.99790849
LARP4B	13.69238179	13.6999903	14.53863429	12.32345667	12.62058636	12.75652366	15.32139366	15.05784593	12.52073739
LARS1	15.45529463	15.40665149	14.90353326	15.67854259	15.68164167	14.71456689	12.64273659	12.64291804	12.29807627
LARS2	15.14807268	14.3269015	15.71069972	11.69964429	12.00338169	13.57362755	11.37863109	11.22646193	12.20282248
LAS1L	15.35727988	15.62136875	15.567776	11.88480973	12.45564568	12.16627109	12.39663753	11.95952728	12.04777867
LASP1	18.03438982	18.15827544	18.08891599	19.76241127	19.80837952	20.12593206	19.53640141	19.59998866	18.77230378
LBR	16.22529872	16.96173205	16.48320467	15.07483817	14.7484174	14.78894269	15.22329577	15.41777621	15.4845745
LCK	12.01318641	11.63583778	17.66323495	12.43865614	12.47977334	11.17670632	12.00911459	12.21962112	11.55843893
LCLAT1	15.17779383	14.74893835	14.31579515	12.71051089	12.69379259	12.0486915	18.62885291	13.2243325	19.31234913
LCMT1	15.79085229	15.00681568	14.86638353	12.34030459	12.49154947	12.82200419	12.36373394	12.04031769	12.63557752
LCMT2	13.67434515	13.53168065	12.93877907	12.16695435	12.13644526	12.75228542	12.7389978	12.68389692	12.35068192
LCN1	14.02113234	15.1058044	13.64303059	19.42605961	19.67258942	19.5542641	19.1403758	19.25175398	12.24392364
LCP1	14.26500617	16.09109373	15.48097453	15.00091469	14.46758777	11.98623574	12.89682654	16.1609533	16.16434491
LDB1	15.21801731	15.10226091	15.04773918	12.07458012	13.5245468	11.92578938	12.4911544	16.82122156	16.80425257
LDHA	19.58800811	19.63747106	19.61626451	17.49944394	17.54481401	17.65312483	17.02597415	17.04488664	17.15024144
LDHAL6A	19.81574086	19.58015358	19.64903451	17.78824533	18.20329318	18.00826216	19.22705746	18.27659858	18.69266413
LDHB	19.04319461	19.00151012	19.18437336	15.92749056	16.06996056	16.0535669	17.89335779	16.97938361	17.04191559
LEMD2	16.02069856	16.47044633	16.47982486	17.7495432	17.65358714	17.86810041	17.02810905	17.94656316	18.56693486
LEMD3	17.33965324	12.879729	17.00344599	12.37896809	12.78353102	11.96709514	11.56408201	12.44166247	12.4422671
LETM1	15.08822176	15.26457168	15.63089367	15.68305305	15.55652955	15.85978018	11.39803879	11.92352213	12.43604359
LGALS1	15.83773907	17.20310167	17.08938927	14.68970616	18.11752451	13.16995135	20.81704957	18.42477217	19.41322592
LGALS3	18.41892198	17.96653157	18.28058619	14.89482561	11.54562876	15.04077329	11.8874501	11.85078665	12.89036801
LGALS3BI	17.54430115	17.68260543	17.69381722	13.23524624	12.73838278	14.04772189	14.17264691	11.98111443	12.16445234
LGMN	16.11316946	15.78531629	16.15418813	13.12974659	12.51494279	12.05301561	12.50285972	12.79409509	11.80078148
LHPP	16.13657787	15.90869036	16.00135078	17.04257293	16.53919352	16.71002684	12.57393577	16.5584044	12.044315
LHX3	12.22034326	13.28833481	12.12888594	11.90936677	12.97142016	11.00714596	13.27205822	12.38843367	13.28341407
LIG1	15.35785601	15.38252311	15.65813961	12.82936588	11.34649947	11.86454817	14.13174968	12.23941928	12.32471636
LIG3	15.64834994	15.72512635	15.0704462	12.54615902	14.68220716	11.66590398	14.1404453	11.23034889	13.33361182
LIMA1	15.09921781	14.6857731	13.94430883	18.46374574	19.41164904	19.6641562	17.94444674	19.43447758	18.48868289
LIMCH1	15.20875759	15.017927	15.41907495	16.64588712	16.20076948	16.56239858	17.2077996	17.05086121	16.39961483
LIMD1	12.27726439	13.71646609	12.94467739	16.66268874	16.38515846	16.60221835	18.73841637	18.5917261	18.33926209
LIN7A	17.06073235	16.11645729	17.28091362	18.53307949	18.37012668	18.41174833	12.14441465	12.79910765	13.69189058
LIN7C	16.32432937	15.97456711	16.09086873	16.75877598	16.43957677	16.82768856	12.41798743	12.55463435	12.96448653
LIPI	12.09045901	12.57897503	14.21072112	12.39953211	11.944337	13.28270181	12.4039423	13.18235421	11.84938397
LLGL1	13.67425403	14.16246427	14.60905408	12.20217607	12.15892959	12.29522012	12.53433175	12.05374472	11.35462478
LLGL2	15.24178374	14.99120858	16.1459618	15.94899306	15.76750865	15.37386897	11.92669868	15.71294088	14.42467102
LLPH	13.80816629	14.34611516	13.17217079	12.4463082	11.71921043	12.35898393	12.45658722	12.45270064	11.61992155
LMAN1	17.01551888	16.97475595	16.84387971	17.25994003	17.62748852	17.04120442	16.49902995	17.31205092	12.62793949
LMAN2	16.49992009	15.84024732	15.93116477	16.08282533	16.08172836	16.24595122	16.03475339	12.1714852	16.10941704
LMCD1	14.98495271	15.38031552	15.30008164	14.286971	11.91495384	13.34193606	15.90903514	12.65028789	16.34692286
LMNA	18.44819718	18.52270774	18.56050022	21.34037834	21.20869454	21.44392054	21.82383287	21.8769181	21.60106742
LMNB1	19.05200148	19.10543447	19.12452404	19.05924631	19.01287413	19.08256078	18.01372599	17.88146411	18.24639756
LMNB2	17.65365113	17.85673719	17.70465363	19.77660993	19.55846609	20.05889883	17.95637974	17.8952599	16.92497518
LMO7	13.82748899	14.72231536	14.85579681	12.33277481	11.93772625	14.72540987	12.91539014	13.15379045	12.87288709
LNPEP	14.42368092	14.32234794	14.57098946	16.21730258	15.27049984	15.91747358	11.58946244	12.88553112	13.54232775
LNPK	17.02477495	16.93411812	16.93638373	18.10125248	18.48796198	18.41247056	20.18015588	19.86292888	19.95770604
LONP1	15.71017323	15.47184799	15.43075922	14.73297064	16.07386847	15.53231719	14.04718783	13.49059438	14.06082803
LONP2	14.06932411	14.0570136	14.18429889	13.1880162	11.31110511	12.42610143	13.0878459	12.49724341	11.74599829
LONRF3	16.14159135	12.50131749	12.64390646	12.53570941	11.89612602	13.17349347	12.8182882	12.87257744	12.43081286

LOXHD1	17.21897802	12.57859399	17.01865432	20.45407117	20.26999379	20.29329787	22.9681165	22.57214249	11.98776506
LPCAT1	15.33735332	14.28215965	13.07066315	14.99255326	14.93356129	14.91031001	11.83116613	13.12625941	13.46530212
LPGAT1	15.24095653	14.99122074	14.89082439	13.12161906	13.02300443	14.1356463	11.4804304	12.51785311	12.19746325
LPP	14.82446181	14.52907169	14.5340622	17.84611341	17.95678342	17.96459769	21.57246687	21.65769432	21.00799094
LRATD2	15.08351096	14.08397455	15.30143515	12.14603581	12.55177177	12.18358121	12.53820359	12.09742011	12.9438729
LRBA	16.73439953	16.85576463	16.78910183	17.14042656	16.93437285	17.08736843	17.44820799	17.54309195	15.52629639
LRCH4	13.7057539	15.58339069	12.54168997	16.27711466	12.3211216	15.7663361	16.93795625	12.07376262	12.82235447
LRG1	16.20863439	15.34044473	15.83155987	14.60140155	15.02892724	12.19730012	12.51347239	11.44783965	12.20135322
LRP1	13.22089129	13.93876894	13.77599389	18.14614985	17.64437541	17.87539911	17.83705781	17.73196593	13.39349503
LRP10	18.2027636	12.04795233	12.26393849	13.72294529	12.46713228	12.28617875	11.46598372	11.47959922	12.16878922
LRPAP1	15.4027908	15.22564432	15.17734082	16.3830527	17.44105576	16.02612391	14.51220906	12.17763626	14.90592776
LRPPRC	17.35696066	17.48800137	17.45762356	15.94801901	15.65487428	15.89742336	14.24140469	15.52266982	15.0240619
LRRC1	13.76239743	11.92772172	13.85002477	12.86258191	12.43814956	12.32394472	13.35612572	12.07110372	11.77629301
LRRC20	16.83956168	15.72114644	16.44336513	14.57225916	12.42476319	13.84065471	12.42348468	12.39448019	12.78674347
LRRC40	15.29568546	15.23873163	15.47395233	14.96079796	14.97523539	14.86792682	12.07993653	11.07647759	11.68101648
LRRC47	16.42700177	16.93872201	16.86256737	16.50450511	16.2056817	16.39344359	12.64434651	14.68678179	15.7960131
LRRC59	14.91288722	15.59038298	15.41490518	12.7090973	17.42114304	13.92008044	11.98800457	11.51110818	11.44131292
LRRC70	12.93043299	15.14666015	15.45729843	12.51732991	10.77232708	12.10597228	11.67651114	13.16129201	12.57344823
LRRC74A	16.16909074	16.38029694	16.30736356	11.59087207	11.90927813	11.86753719	18.24544779	17.63815198	12.00503101
LRRFIP1	15.90888092	16.05683927	15.47257417	16.74983586	16.30987371	16.0070366	18.1206159	17.86997919	16.03951992
LRSAM1	14.56150592	14.61253273	15.3210478	11.69975814	12.6684092	12.89097039	12.59240091	12.89947388	12.410623
LRWD1	15.77726072	14.93718024	15.6155077	15.03971514	12.67457337	14.51859208	12.61842013	13.20486934	12.30809988
LSG1	15.48929887	15.21105876	15.05512719	14.99510135	14.78994205	15.05010147	16.42521766	11.75026703	12.71528017
LSM1	16.14471852	16.14160916	15.72869206	12.94256559	12.8540432	11.76723465	11.22819811	11.35884638	11.65378301
LSM12	11.91353187	17.42195345	17.22878464	16.24283363	17.27593208	17.45448468	12.41361526	12.32864664	12.52669049
LSM14A	16.27093085	16.49870309	16.291819	15.5200554	15.24121451	15.30567498	12.65251917	12.96178413	12.01366573
LSM14B	12.2533629	13.28650001	14.89771335	12.2155084	13.01825909	12.13528552	11.64972448	12.17458469	11.55438603
LSM2	19.44715631	19.39781934	19.38645912	14.35632904	13.28641102	12.7065213	16.35583028	12.1709716	16.86115966
LSM3	20.20851151	20.35741222	20.05486097	19.009008	19.76798497	18.10560198	19.37273334	20.12361284	18.92404082
LSM4	17.59483747	17.37990986	17.36174122	17.84010312	17.35908785	17.67760308	18.8477765	12.56493319	19.18537253
LSM6	13.74724879	12.01266565	11.80047385	11.43152417	12.92858017	11.62022014	12.78848938	12.08898305	12.22906351
LSM7	16.10825588	16.25317484	16.14726541	17.0806389	17.09045443	17.24325817	17.21507827	11.96778633	12.74116336
LSP1	15.72699316	15.40167219	15.25871778	16.38712972	15.61980557	15.89075266	20.15900551	20.64033657	20.84380396
LSR	16.33575338	16.19928449	16.36073053	17.59928272	17.21327292	17.57316727	14.96893681	11.69736647	15.81211237
LSS	15.79407691	15.93819817	15.94971062	16.43031433	16.57374048	16.02859398	16.85021916	15.5105637	15.96480532
LTA4H	16.66052555	16.50001929	16.56747984	17.2590566	17.22881962	17.05949238	16.20640142	15.11038519	16.34182509
LTBP2	12.58758959	11.47000405	13.22550079	18.48945315	18.27368251	18.58122389	18.30910317	18.13322043	18.48401422
LUC7L	16.49499654	16.56812878	16.38966005	14.1718105	14.95015029	16.04110064	12.39032025	12.03554075	12.15955504
LUC7L2	18.01062686	18.03190174	17.9270081	18.57683505	18.77843242	17.91315817	17.91081759	18.22254845	18.05540361
LUC7L3	16.64913538	16.51534249	16.7452302	12.1729147	15.98508523	11.94419762	13.1188443	16.61361556	13.13300682
LUM	16.53215857	16.56912569	16.33559136	18.58252925	18.76135405	18.33981363	20.24697652	19.32573624	19.78133299
LUZP1	15.11917462	14.95734234	15.81412194	16.12811279	18.36007346	17.99100877	12.57015112	12.37661411	11.72216548
LYPLA1	16.90786251	17.1083208	16.92602791	14.42210821	14.5244715	13.42775846	12.16457819	17.14403028	16.73692941
LYPLA2	15.90643294	15.87834366	16.36297703	15.66246981	14.88877796	12.58651601	12.18991297	12.44419624	12.14045374
LYRM2	13.14954408	15.40499363	14.23089057	13.09371049	15.74069906	12.30644299	12.56507723	12.62946547	12.65973801
LYRM4	14.66472341	14.71188388	14.66634437	11.8955891	12.49368803	12.5596242	12.49310342	12.06806967	12.71063178
LZIC	14.57226663	15.29363189	14.24809677	12.501385	13.55392915	12.53214761	11.84353042	12.75308028	12.33637675
LZTFL1	15.58583875	14.49797558	14.75104909	14.30721745	18.57406697	17.72795618	18.80487289	12.31065232	19.14202623
M6PR	15.97419227	16.2207745	16.22009545	16.44763463	16.51546918	16.39882924	11.44591688	11.97302909	12.43850522
MACF1	15.5589792	15.27554719	15.60491868	14.61320006	14.68137235	15.13821491	12.23198219	12.32797143	13.32556589
MACO1	14.52314161	14.27934515	13.26923688	13.29730408	15.25704533	13.24756776	13.09303722	13.15530942	11.87844059
MACROH	17.59155534	17.43119471	17.37348797	18.0316684	18.08093523	17.9095796	15.19588571	15.37366896	14.82470766
MACROH	17.20512774	17.18242777	17.24302635	17.87961002	17.79377792	18.02843867	16.55437523	12.44738508	15.51412032
MAGEA10	17.02982093	16.96441186	16.25632526	12.70784923	12.33073299	13.18092341	11.53309384	12.09446566	11.66768968
MAGEA9	17.00095799	16.96989635	17.06207867	12.03419157	12.54043875	12.02507346	10.98768468	12.05766736	11.54751952
MAGEC2	15.22841049	16.98024969	16.95944742	12.18630397	11.6763627	12.06608314	13.08210023	11.69371005	12.30929214
MAGED2	16.3492249	16.98901894	16.77095957	15.33394878	16.56211934	14.9549766	15.00511225	15.47455458	14.92362418
MAGOH	17.030621	16.84619272	17.12438863	16.99370974	16.98010461	16.94103	12.82072445	12.58861151	12.47864759
MAGT1	16.69258123	16.86787295	16.38558609	17.51971849	17.8697948	16.95328217	12.27829231	12.71974374	12.62376998
MAIP1	15.82761189	15.89725689	15.61897161	12.51562593	12.82123479	11.69140495	12.20666352	11.72585444	11.93762334
MAN1A2	13.45836955	13.65827052	13.38564587	12.14922069	12.1623784	12.43773994	11.47538907	11.12414256	13.36200871
MAN2B1	16.34130763	16.23121941	16.15662861	13.81509379	14.26803631	14.10089167	12.1193894	11.5100104	15.88351015
MAN2B2	14.32468135	14.73104612	15.42748739	15.93390604	13.84068216	15.28161349	11.68858018	11.69014349	11.79944998

MANF	14.11833764	13.74770281	14.33133314	12.36605925	14.50524403	15.18794538	18.38851915	12.10665841	19.24628744
MAOA	18.62291673	18.76690171	18.75255136	18.34143591	18.05401356	18.16690359	16.920738	16.25647974	16.30713126
MAOB	18.69164375	18.81147491	18.86291603	16.25352355	17.24717492	16.67622615	12.68144637	11.46902854	11.65990242
MAP1B	16.17599308	16.3550403	16.18003431	17.6962162	17.66781216	17.73606252	15.81305655	16.67185366	16.0755485
MAP1S	16.11287703	16.0080686	16.32544549	15.34682289	15.252474	15.23307231	12.83334296	12.81546326	12.60430961
MAP2	16.05143567	15.84205318	15.93751204	12.14046424	13.1128473	14.48111141	16.87082458	13.16263418	12.82163054
MAP2K1	15.49729357	14.9953486	15.72527152	13.56310473	13.13385482	13.7934126	12.86410026	12.22663036	12.86859505
MAP2K2	16.40400889	16.90094144	16.62025495	17.40652395	17.07700408	16.77510463	12.81444022	15.12193351	11.84405696
MAP2K3	14.52879667	14.53988136	14.6776174	16.31926164	12.04050216	16.49568269	12.19893361	11.84716103	12.11438317
MAP2K4	16.03590503	15.77447828	16.29822365	16.94877001	16.83459055	18.32483915	13.57648534	12.28803945	11.84293006
MAP2K6	14.42054738	14.45696093	11.83954472	12.8105202	15.67762545	16.59227154	12.76872704	13.04140525	13.13855685
MAP2K7	16.80201325	16.77532913	16.48294827	15.72371194	15.61300567	15.16104581	16.91660409	12.96466169	18.34918763
MAP3K7	14.87238148	14.94692722	14.80945086	18.00180859	17.71689181	12.90056002	19.03984677	12.85166813	19.29697163
MAP4	16.16192781	16.26693156	16.34963641	19.19468045	19.12430282	19.19328502	19.86840038	19.70055642	19.94737047
MAP4K4	13.79565585	13.27708533	13.65153164	16.54095048	16.25742256	16.46796846	11.91639679	11.68954156	12.7527766
MAP4K5	14.99646001	15.07891826	15.0406058	14.32882511	15.02148735	16.15300127	12.87224233	11.35671864	12.82939931
MAP7	15.10410824	14.76736332	15.11251934	16.50326649	16.36774777	17.2725075	13.93850001	12.50261128	14.21923148
MAP7D1	15.76171419	15.91046835	15.89418387	15.74396295	15.51017458	15.51456138	12.4855153	12.38057699	11.57704219
MAP7D2	16.60383623	16.52882031	16.16469974	17.70522236	17.6207284	17.64942073	11.72775647	12.64166688	12.47093137
MAPK1	17.86072324	17.63662662	17.91026777	19.80207356	19.87452942	19.24993641	19.62984348	21.66415119	22.58397779
MAPK13	16.41880698	16.225144	16.24315684	15.05253086	15.66327518	12.97607082	12.59724907	12.31977858	12.61151831
MAPK15	15.24698519	15.75455091	15.76671629	17.34019334	17.0732175	17.9455863	17.66600045	18.01066594	18.00811664
MAPK1IP1	18.99852655	18.9595977	19.07318597	19.56975845	19.37095598	19.50461459	12.50891521	19.65559213	19.57352887
MAPK3	17.77112504	17.62207985	17.88246887	18.67342745	18.89700796	19.05821839	18.93707619	17.54925195	18.5495609
MAPK8	14.93319365	15.70188441	15.54755225	16.1855609	12.55660322	17.47247467	13.74916606	11.60504817	11.50731698
MAPK8IP3	15.25384568	15.63785092	15.89429679	14.37097134	12.46132179	12.29164748	11.78791069	12.5123814	11.9381467
MAPKAPK	15.0525799	16.03696776	15.7488202	18.74897222	17.63035068	19.20393605	20.82930042	20.25858889	21.0284772
MAPRE1	18.51554774	18.71616357	18.62494654	17.08990642	17.14360192	17.42278214	16.601692	16.68004537	12.50281732
MAPT	13.75939414	14.53293463	14.25441984	15.40985958	12.21892503	12.54727171	12.73017115	11.72462738	11.53421105
MARCKS	16.93442102	16.8434477	16.97880391	15.46217014	16.24842515	15.86760994	12.71583688	12.39059951	12.67486199
MARCKSL	18.80943473	18.76582353	18.7016067	19.80772437	19.98150802	19.303234	11.82649072	11.99380198	12.92095337
MARK1	12.43216532	11.46374322	12.00191889	13.22077704	11.11962163	12.27754567	12.00673267	12.3371554	11.0993748
MARK2	16.14734668	12.70451058	15.16049625	16.45661595	12.70085746	11.91709659	12.41367465	11.76768711	12.56113682
MARK3	14.85554434	16.23633881	14.68797922	12.32419834	13.50131683	12.65269597	11.946344	11.74214174	13.57557001
MARS1	16.43574662	16.72824242	16.58960253	12.24825773	11.66662502	10.72719275	11.98550834	12.07689114	12.44347572
MARS2	15.59712322	16.19754794	15.60483685	15.16491114	14.92218614	15.06365156	12.22733243	12.58199991	11.90055924
MAST4	15.81185696	12.68017332	16.1272067	13.91792051	11.83899367	14.13051709	11.92890628	12.08871779	11.91988359
MASTL	13.32758101	12.78230249	11.25821919	12.27368611	11.71548743	12.12422214	13.50304908	12.24761046	12.04554475
MAT1A	17.90982767	14.00187356	14.37830496	18.12146708	13.02723454	11.7439392	12.49440397	12.4698698	12.30381149
MAT2A	16.9874829	17.37936648	17.27838731	17.14744871	17.78432163	17.37976461	17.54994636	17.46889251	17.78354957
MAT2B	16.87175089	16.84706487	16.75374353	17.63851912	17.05801323	16.61447394	17.69272723	17.84935368	17.73673597
MATR3	18.79703268	18.83597688	18.89941298	18.81984001	18.89363617	18.8509873	18.11163054	17.36188732	18.30550635
MAVS	16.37403754	16.26896235	16.50679867	17.85474411	17.93629286	17.87218895	18.9691608	19.18847703	18.51034064
MAX	15.52897304	15.44967595	14.97841753	12.41442488	11.51496861	12.7596412	12.23000293	12.00476612	11.74713065
MBD1	14.0769434	13.45646172	13.88868759	12.28510635	12.45945656	12.52270977	12.79753653	12.72557655	12.47617253
MBD3	15.72602284	15.5191228	15.78666206	11.54363742	11.90235138	12.25568903	12.02599091	11.48760696	12.87535875
MBNL1	16.81609577	16.89824108	16.82424616	20.11014606	12.3689991	20.08193399	20.83987949	20.46535819	12.79963743
MBOAT7	17.16768095	17.16897018	17.16404067	19.79829705	19.82955327	20.1337724	19.89165883	12.2229305	20.36518292
MCAT	14.9251375	14.9137905	15.46628544	14.83225326	15.35433033	15.0314487	12.01834221	12.35077926	12.14537203
MCCC1	16.46537188	16.41148679	15.83408903	17.3724536	17.27126883	16.88944522	17.97065497	12.06465102	16.6981482
MCCC2	15.71013655	15.43664265	15.93773861	17.87147982	17.75289506	18.09105652	19.74480549	19.72930955	19.3473432
MCIDAS	12.99094522	14.85167829	15.41632489	11.56689113	11.55324933	12.75384101	11.87691533	12.01537748	12.58343881
MCM2	16.65110979	16.5873402	16.79706586	11.61520652	12.22454185	11.52333431	12.70406816	11.8389055	12.66595024
MCM3	17.34701304	17.3938851	17.44141107	14.12637459	13.1919294	13.22258481	11.82862462	11.86428217	12.27289723
MCM4	17.61135451	17.50645405	17.43933955	12.50943002	11.1285879	12.76385322	12.05194254	18.5198033	15.30079972
MCM5	17.24506828	17.30457896	17.324664	11.48580524	12.77859203	13.68903969	15.53306721	15.84344686	16.36453061
MCM6	17.35769052	17.32548552	17.60853811	14.30737952	14.0005414	14.25281245	12.99308365	12.98971129	12.53099384
MCM7	17.79605032	17.73566709	17.85812685	13.22970146	10.31082872	12.45121323	14.60952364	12.92644082	11.44127193
MCM8	18.11158224	17.95591471	18.32283996	12.66500857	12.29743438	13.82848526	11.52081346	12.24200415	13.11408212
MCMBP	15.72480993	16.08092957	15.86039572	15.98906134	16.34667168	16.30236169	11.99874948	16.05386201	11.22264555
MCRIP1	17.45222044	17.12024516	17.23861946	16.18307661	16.18709946	16.08858357	11.14777649	12.76332573	11.86436121
MCTS1	16.98931819	17.18862243	17.04057495	15.32950222	15.48525731	15.26813521	12.0306322	12.08426513	12.23384201
MDC1	16.46159749	16.72298067	16.85648802	13.83794938	13.09385119	14.08029608	15.23378533	13.10614312	12.91012448

MDH1	16.96458743	16.92678214	16.97081657	13.98188612	14.25752742	14.26738746	15.82624654	17.19983194	15.89341595
MDH2	18.84215675	18.68189417	18.74432204	19.24914623	19.18966263	19.32989713	17.82065202	17.06012391	17.53651014
MDK	14.79795757	14.54033867	16.03158546	15.40060533	14.38069321	17.03303108	12.13723168	13.08839612	11.68444419
MDN1	14.28326791	14.74772681	14.9065858	14.30211598	14.05780195	14.42908659	12.93502589	12.25318459	11.74563026
MDP1	16.57470127	16.19175224	16.29687349	15.16519494	14.2681185	14.34746249	13.26251417	12.54312976	13.53702617
ME2	16.4088905	16.62644954	16.47942296	15.96282388	16.06914321	15.53475061	15.31151286	12.93190965	11.79214368
ME3	16.41894407	16.72693695	15.75704533	13.15342753	12.91728401	11.7497361	12.19878706	12.66212149	12.68419543
MEAF6	15.95781633	16.35302608	15.75089248	12.467254	12.9451083	12.66536726	12.95626304	12.55157285	12.65681245
MEAK7	13.56708647	13.76618494	12.16045478	11.65900796	12.35332497	12.80047251	12.7551699	12.24110866	12.57701309
MECP2	15.08554834	14.9996553	15.18340518	18.63201702	18.68166371	18.35034997	16.76668809	15.79605816	18.26486492
MECR	15.05011843	15.31867965	15.30181002	16.17388795	16.4595463	15.95063833	12.58617988	11.2079682	12.94485091
MED12	12.13948079	13.75469423	14.44964236	14.65916183	14.15421559	12.75935957	13.02114505	12.26400813	11.74971874
MED18	16.40363682	16.70213215	15.76188891	16.05360384	16.04941047	16.80046625	12.48704433	12.13343898	12.93306607
MED22	14.28160911	14.89921379	12.00095294	12.88684115	11.76298853	12.14452278	12.82670295	12.51684755	11.87260571
MEMO1	15.4057375	15.59761255	15.28319757	14.12649752	14.36590389	13.95873004	12.06114963	11.88691165	12.77788392
MEOX1	12.38403706	14.20633344	14.26043012	16.90369378	18.38624422	12.55703785	11.45019755	11.84234641	12.78974725
MESD	13.93921585	14.05297907	13.77415553	14.89560481	13.04491867	14.7744069	13.41371101	12.10047257	12.79042932
METAP1	15.56172143	15.39603262	15.09380329	12.08396954	12.14612375	12.08442352	12.72935908	12.64488402	12.96592137
METAP2	16.20574139	16.30526731	16.29827525	16.40298999	15.13784809	15.40653384	12.23986851	12.21400063	12.39053879
METTL1	14.90315331	16.06642237	15.31661575	12.85200639	11.97749729	11.59729561	12.36916676	13.05175674	12.81326007
METTL16	13.51705792	14.64302169	14.21664706	12.28100207	12.05919578	12.09120879	12.9328163	11.19517141	11.3543945
METTL17	14.0957749	12.76139043	12.83351125	12.47633628	12.98926234	11.93985988	12.25429149	11.77709	12.19200918
METTL21.	14.17298138	13.80314675	14.09580049	12.86378032	12.33630786	11.2041617	12.95956502	13.12140817	11.77235537
METTL26	15.56333365	16.19073596	15.89366645	16.75393147	16.37347922	16.2760053	17.55636007	10.8746307	17.65660362
METTL3	13.82085731	14.69873445	15.09514877	16.89895398	16.72056678	16.34081925	12.50961155	12.58442908	12.58343756
METTL7A	14.14947854	14.9287296	14.16109001	12.17320684	11.786443	12.36297255	12.70911266	13.06912205	12.85588729
MFAP1	16.69414126	16.39059959	15.34896059	17.64779028	17.90169487	18.46803676	12.69775708	12.17674369	13.33034121
MFAP2	14.6785303	12.29521215	12.76673934	17.83856533	17.60602186	18.14474074	21.63150529	21.46481834	20.91583306
MFF	16.66180825	16.35580797	16.47181843	12.05047196	12.08944436	12.96660641	11.85162328	12.15456052	11.57321765
MFN1	14.68772222	14.10310539	14.61615317	11.94658803	11.59521991	12.04654514	11.33245262	11.81025241	12.49264096
MFN2	13.41346852	15.50207908	15.34011981	12.65016561	12.75627475	13.56869957	12.44174823	12.09179194	12.36844426
MGAT1	12.36903478	13.07850802	13.25912567	13.70917308	12.56742537	12.4278801	12.36489274	12.75911843	12.46419847
MGAT4A	16.91700724	14.73751436	16.19818323	12.08078623	11.82019349	12.10568922	12.82836638	12.23720423	12.20941611
MGAT4C	13.24551809	12.25507605	12.31156868	12.8107579	11.84876723	11.99049926	22.3978386	23.71611318	22.51169629
MGAT4D	12.83376273	13.68452941	12.67698314	11.80217608	11.90949983	11.69170589	12.73887554	12.32112018	12.15392728
MGMT	16.73302835	17.4431064	13.61111335	16.07760434	16.07419707	16.1882554	11.82061932	11.58239474	12.6813453
MGST1	16.4410023	16.32788113	16.5049206	12.31224893	12.97377129	10.94766452	11.44057377	12.44795188	11.75168564
MGST2	15.35714153	15.27488858	15.67456278	17.71648257	17.32033446	12.25825586	12.75327286	11.27928223	11.88131002
MIA2	16.79291516	16.66789741	16.3997764	15.32814769	12.31434174	14.9759372	12.15213246	12.26141368	11.78999971
MIA3	15.84959384	15.53251676	15.60016731	18.42283373	18.48763165	18.24064197	19.39006439	19.60473131	19.47511083
MICOS10	15.33368023	15.52693357	16.0788579	12.77969172	16.89633019	17.31645356	12.75836262	13.50533629	12.70229211
MICU1	15.76996902	15.88159289	15.61020559	12.29773774	13.13202046	13.60347311	12.51109653	12.43821917	12.54707806
MID1	15.95795669	16.40379087	15.87850812	17.06569539	17.21669777	17.33415396	12.94711176	12.17507957	11.74563723
MIDEAS	13.97435879	14.2618727	13.64134187	12.47405911	11.86742473	11.63643745	11.62776917	14.58247366	12.55700497
MIEF1	14.77315781	15.13126984	14.96861454	12.00517896	13.39940208	14.48580711	12.45531452	13.45261127	12.06883193
MIF	20.56372721	20.56438035	20.69447847	21.33211362	21.45795357	21.2861143	22.67037277	22.76999215	22.72638114
MINK1	15.00156029	15.27632018	15.07280704	17.12102294	17.07786128	16.72607211	17.90919833	12.37644687	18.13891887
MIPEP	16.64326762	16.1667699	16.36075333	16.35984401	16.52734006	16.02996918	12.2142554	12.47971746	12.28598254
MISP3	15.34917318	15.20617624	15.19106967	11.59667577	12.94923192	12.50054017	13.07695378	11.57978669	11.72555618
MIX23	15.22886033	15.88475751	15.44588742	11.8894954	11.73735908	12.47350238	12.55214716	12.40548796	12.50251986
MKI67	15.73527918	15.80240781	15.83341703	11.37052855	9.432032993	11.09007331	14.01840758	13.72762748	13.23558701
MLEC	17.34480634	17.32089142	16.90930311	20.8155757	20.78611982	20.93575844	20.20958959	13.39544217	21.52628391
MLF1	11.74153096	12.47588947	12.19655286	11.47095457	12.03491769	12.69927658	12.22106889	12.81083166	13.22049342
MLF2	16.21754583	16.50665325	15.40394949	15.43408025	15.10845717	15.74279195	11.81910886	12.33527237	12.48348048
MLH1	15.07306103	14.26539758	14.82019394	12.38963566	12.67555941	12.49099377	12.65374403	12.53589875	11.49965275
MME	16.94412784	15.68121651	16.74628336	16.01059215	12.48232773	16.37047588	12.94392447	15.30095176	10.35491772
MMTAG2	15.36825196	15.00860953	15.43542043	15.30492402	12.434933	14.77954555	13.17743422	12.32688404	12.56929678
MMUT	16.1372463	15.14004652	15.06937209	16.07633121	16.00666388	15.24320959	14.84649884	12.55244307	15.65397616
MNAT1	13.76250457	14.38823243	14.80174396	12.77018873	11.91202342	12.44471316	12.94069736	11.96858788	12.79662651
MOGS	14.58034053	14.82027461	15.01189978	15.55889066	16.76848373	15.87457844	13.26495099	17.73929374	12.014878
MORC2	14.68598342	14.97749946	14.38100596	14.86465743	13.84000412	13.69156775	13.43945114	11.68091555	12.45182014
MORC3	14.34285264	14.64224726	14.43632965	12.54801047	11.72555617	12.05727059	11.92749775	11.91809462	12.82686894
MORF4L2	12.74371885	13.00482881	12.91114007	12.70165363	12.41001787	15.18456687	13.13853961	12.56847845	12.11584589

MOV10	15.72272147	15.29083149	15.68344162	15.2524056	15.53831113	15.40861093	11.4105605	12.94274654	13.3757932
MPC2	15.77600525	14.8671385	14.86857713	11.88983241	12.92143856	12.38176576	12.30883777	13.73948708	13.18815794
MPDU1	14.60812337	14.44951364	14.66300686	15.96049038	15.9330776	15.88606697	13.18199136	12.46585992	12.28754813
MPG	17.47100387	17.58772587	17.70974883	16.60498173	16.42963027	17.04903204	12.09746722	11.11870447	12.56029581
MPHOSPH	15.87644639	15.33323323	15.07111072	12.09933538	13.29522187	12.07798549	11.54361	12.70188137	11.0652063
MPI	14.29567361	13.73103155	13.94520136	12.53342561	12.49062258	12.71784254	12.61664284	12.17051358	14.027269
MPLKIP	16.14076728	16.10708653	16.62317314	17.83486972	18.30782973	18.29130241	17.4906754	17.29903842	17.15540539
MPP1	14.71843552	13.89347613	15.15493092	13.19180813	12.92853952	11.82587281	12.6022969	11.62323272	11.93316238
MPRIP	15.93242243	16.07867341	15.55744698	15.34077392	12.84938281	16.16674506	12.94816491	12.48594716	11.98294143
MPST	16.56637913	16.8843807	16.41049393	17.38793308	17.33081171	16.57402803	18.25559924	18.21622166	17.78952583
MRAS	12.16152752	15.18782436	14.8703296	12.30227578	11.32272556	13.43798548	11.31614308	11.27715843	13.28012861
MRE11	16.02058387	16.0016514	15.81225618	15.71040068	15.82073577	16.05047979	11.86014723	13.72630256	12.92773423
MRGBP	14.02131144	13.89100082	13.8590079	11.88815355	12.58531367	13.2211316	12.16389187	12.45366663	12.27841695
MRI1	12.91820999	14.26680512	14.49206892	13.04606991	11.91993566	12.0336396	20.12368392	20.2657726	11.77035386
MRNIP	15.40854051	15.27607058	14.95109037	16.18270471	12.16638467	15.84211556	12.66266295	11.70749395	12.26609867
MROH1	14.41785443	14.16782107	14.08431152	11.9322278	13.0247589	12.65565331	11.55975907	12.25820023	12.91347908
MRPL1	15.01870628	15.3081068	15.3707554	15.49426057	14.59816167	14.25328073	12.8098061	12.75293833	12.60741264
MRPL11	15.91293162	16.45662325	16.15696353	15.73658504	15.24692474	15.13741572	16.83644255	16.71457221	16.87442887
MRPL12	16.73646067	16.81561674	17.1295509	12.68675362	11.91683218	12.29370491	12.30107664	13.17503736	11.23981334
MRPL13	15.83899363	15.4155772	15.42019272	13.67854258	13.53528352	12.29860735	12.6616384	12.45906183	12.75561485
MRPL15	16.38217881	16.22819207	16.27179138	14.49019912	15.3577841	14.97512404	12.16601445	11.66380026	12.6647247
MRPL16	16.01618029	16.04754958	15.95058539	17.46526789	15.88082773	16.12133377	13.2326996	13.16770115	12.17200044
MRPL17	16.3466683	16.3298945	16.24956724	14.05827108	13.97992621	13.32550133	12.10343823	12.41752821	12.2858822
MRPL18	17.09529859	17.37432433	16.84687772	16.94613979	18.08540288	17.8299591	17.22834966	16.93026546	16.6726479
MRPL19	16.92905068	16.83372909	16.9304637	17.55131787	17.6851108	17.76840385	17.45227346	12.03652763	12.25184385
MRPL2	16.48569054	16.68428997	16.40225167	13.31638862	12.66285566	14.99926685	13.27797416	12.81399778	11.35729498
MRPL21	15.63940472	15.442354	15.19170227	16.84376196	16.97974222	16.30639252	12.26557434	12.05460459	12.36444069
MRPL23	16.68250707	16.03559717	16.55428406	17.35705896	17.32893946	17.12068925	17.60615682	17.39405231	17.70544702
MRPL24	15.94828705	16.0377679	16.38087103	16.35504875	16.37921018	16.96499643	13.56414831	10.93737425	12.5567444
MRPL27	15.96365296	15.65543321	15.07869153	16.14670186	16.67902725	15.28729645	12.73641034	10.96262971	12.92983589
MRPL28	16.19107883	16.11272374	16.11360783	11.67280823	11.64727382	12.71439869	11.86276891	11.49519328	16.01612067
MRPL3	15.00767198	15.62387502	15.23845647	12.32952221	12.68799359	12.40664378	11.38088157	12.28468319	12.07520407
MRPL34	14.84358157	11.96382473	12.86383848	12.2969657	13.06582971	11.78447113	12.81244578	12.06779997	11.7798541
MRPL37	16.60373656	16.64281952	16.73207121	11.95673052	13.34340786	13.48661802	12.04349195	12.61887355	11.53149241
MRPL38	16.86654005	15.88416445	16.90074371	11.21962131	11.90440916	16.74583199	13.31976785	13.26785715	12.85950328
MRPL39	17.00265529	17.52493932	16.93105181	16.72502768	17.11024108	16.34182201	15.95724607	16.04037405	16.94923066
MRPL4	17.90555511	17.75753378	18.02852144	14.47218861	17.90181405	17.71637973	13.1340435	12.5780605	12.48986917
MRPL40	12.62189347	12.7776397	14.94875923	12.53594982	12.7835735	12.23787979	11.97520545	12.03205589	11.99070786
MRPL41	16.09617029	15.76180642	16.22347708	14.85952698	14.69847004	15.55742107	13.4528212	11.07278188	11.04803443
MRPL42	15.15727395	14.52006458	14.89225769	11.44874002	11.95012037	15.21808586	13.33767763	13.13136268	12.26018367
MRPL43	15.00520506	16.03115057	15.88776115	14.76965512	13.30126543	14.36018019	11.63661409	11.96386095	11.4445485
MRPL44	15.05489721	15.05252577	14.9915229	12.33781453	13.95500267	12.43739212	11.98173062	11.08905697	12.36033008
MRPL45	16.56815464	15.40582736	16.14871197	13.35637825	13.348958	13.47243203	12.84561077	12.53816316	11.48593995
MRPL46	14.60002803	14.70896938	14.13071785	13.27831011	12.66407346	12.14792073	12.5281043	11.78955022	12.05595221
MRPL47	15.9852245	16.58390163	16.20709803	16.50562248	16.16702442	16.50513555	21.88018852	21.98901264	22.47936375
MRPL48	15.21965456	16.33062109	14.75383809	12.14774495	14.03423324	12.54130621	11.59706912	13.41688212	12.67289749
MRPL49	17.19257305	17.24896302	17.44257286	14.93482924	14.66043244	12.57039488	12.67858044	12.39646949	12.06159803
MRPL50	15.61206489	16.27869747	16.02602623	13.92842062	12.04849393	13.21672941	12.62354313	10.71025275	11.49789279
MRPL51	16.45180656	13.73901221	15.96405828	12.79758151	12.26510944	13.21188073	12.60214708	11.34791922	11.90317805
MRPL52	15.72869422	15.97258408	15.33047171	18.072123	18.13339624	18.28639425	18.86449439	19.10771979	12.50227878
MRPL53	16.83040336	17.13296759	16.97344482	15.88452097	16.30639655	15.90817803	12.59324319	11.64502102	13.31914545
MRPL54	15.39495457	14.45563912	14.73537406	11.65485356	12.23851194	12.56937868	12.15809186	11.16653242	12.24313639
MRPL55	16.2346454	15.91590669	15.73874736	14.64085134	14.39426106	14.86814284	13.11916274	12.41920952	12.62307049
MRPL57	15.43691297	15.7132365	15.59756561	12.53215691	11.62943886	12.68409044	12.65225512	12.64024068	12.67365111
MRPL58	14.68599471	14.8538875	14.81333337	14.71703849	14.61257421	15.25874668	11.72249526	12.15839693	12.60003879
MRPS10	15.32392649	15.40771517	15.34035113	15.61524769	12.5449346	13.53812657	13.21597258	12.29172948	11.82646925
MRPS14	12.76827722	12.31895338	15.54902078	11.71855087	11.99861272	11.34367006	11.94222826	12.6057396	12.07579573
MRPS15	12.80390246	12.19151698	13.29006987	12.71973816	11.84689765	12.64703486	12.60893305	11.17279683	11.58457408
MRPS16	15.4539312	15.82542928	14.2034319	15.95460146	13.72625453	15.88248922	11.18453623	11.47514069	11.97943598
MRPS18B	16.12935928	15.65702509	16.40410748	16.64972943	16.85071859	16.96884564	13.22347213	12.48842621	11.61032822
MRPS2	15.32826641	15.19067564	14.99336767	15.36828907	16.14581156	13.30486842	12.64229604	12.28625594	12.47958762
MRPS21	15.31277535	15.85922918	15.62908654	13.13274127	11.09306973	12.53825828	12.39907111	12.55896766	12.29744139
MRPS22	15.83756787	16.24528085	15.53900854	14.86349774	13.61748515	14.19906441	12.59640622	13.26572553	11.98587114

MRPS23	15.84274065	16.14485695	16.33046783	12.7336172	13.22800864	12.25225125	11.38317611	12.79682511	12.57188557
MRPS24	16.35983511	14.70569485	16.29532321	16.51640379	11.90618541	16.85701205	11.89933417	17.41068679	12.42143668
MRPS25	14.07221415	14.08976132	15.45004971	16.2498189	16.65810683	16.81842612	13.11089248	12.43331992	11.34166192
MRPS26	16.82807865	16.66786676	16.55464851	12.98213812	14.20434341	10.82016879	12.54405662	12.54530732	12.74880591
MRPS27	15.43767138	14.80927735	15.52778255	12.97344114	11.84551307	12.46429986	13.42443522	12.9691311	12.58315106
MRPS28	16.96173648	16.82374536	16.74741376	16.44090817	16.78426736	16.07333317	16.46398507	11.9228855	17.12375034
MRPS31	12.1572123	15.37657666	14.66499059	13.06002955	12.44566829	12.79100928	12.92392046	12.46550605	12.58713215
MRPS34	15.8167718	16.01058787	16.46772374	16.46111625	16.17852103	12.65142563	12.01991094	13.93081481	14.70614637
MRPS35	16.45588708	16.27518418	15.72454509	11.24212222	12.084739	13.38491047	11.80913652	12.17477602	12.3116537
MRPS36	16.63852348	16.98248485	16.84272538	16.62720572	16.95961829	17.73830191	14.66080839	11.972599	12.65344091
MRPS5	14.84081077	14.38328173	13.81536501	12.69114651	10.66874931	12.60726153	12.67360845	12.75823659	12.7676999
MRPS7	15.98273113	16.01373493	15.77822134	15.78247208	14.49144985	15.44350953	11.66554907	11.0265071	12.73117576
MRPS9	16.25452194	16.55692177	16.7658741	15.16074886	15.74796568	12.94637079	16.21223734	16.75462926	16.00672895
MRTFA	16.76567246	16.59441641	16.86308151	19.06167109	12.83511485	18.38284201	11.35437369	11.55983709	12.61853912
MRTFB	16.48982316	16.70447735	16.79825302	11.9706111	16.56209095	16.69765523	12.12925503	12.70838749	16.74526716
MRTO4	14.61472616	15.29592478	15.45953861	12.30014276	11.85908663	11.27788846	12.46076211	12.41869061	16.9250125
MSH2	17.33483393	17.45157349	17.4656583	15.15001214	14.38517353	14.3399894	12.44672912	12.23281767	12.20102026
MSH3	12.04792822	14.46632569	14.32331984	17.60255703	15.4587496	12.75830624	12.85253944	12.77997102	13.13382712
MSH6	17.58362754	17.6215482	17.52249251	15.45706716	15.36334794	15.96909429	13.76787127	14.01570229	13.66272307
MSI1	17.04540302	17.70182247	17.34050532	10.01752606	12.20306243	12.92648452	12.93369054	12.30549331	12.3394203
MSI2	15.78837083	15.56121292	16.31169562	13.51514778	13.95590997	13.79417067	12.41810723	13.08515576	13.52467014
MSL1	16.2084771	15.0802245	15.1975024	16.22263137	16.12882502	16.27457325	17.80158002	17.53360649	12.94081825
MSN	17.32131545	17.07571394	17.30110357	17.66889985	17.56146251	17.93282254	15.29019858	14.93949698	15.94066482
MT-CO2	19.32335145	19.12017587	19.36224678	14.79640416	16.98732507	14.72166912	17.43902564	17.23387466	16.14770341
MTA1	16.00889827	16.12702682	16.38974733	15.57114883	16.17013564	15.58812492	11.80824435	12.07179722	15.6447953
MTA2	16.59131744	16.80927544	16.72476299	16.15675071	16.49501222	15.90136134	12.46359574	16.0683571	11.61633354
MTA3	15.59315266	11.29506559	15.95300771	12.66488132	13.31420958	12.30920151	13.14328798	11.98485268	13.07145107
MTAP	18.01640606	17.77853813	18.05520275	14.20578905	15.43870893	12.25860019	11.35922163	11.99138137	12.60285737
MTARC1	15.48302712	15.49139706	14.17713363	12.09439047	11.797574	11.80237429	12.62876731	12.84939735	12.58017779
MTCH1	12.59199553	14.50753942	15.28218649	14.16367693	14.88043355	14.57876221	12.89910046	12.27125626	13.21610405
MTCH2	17.119675	17.43857357	17.38198523	16.46886045	16.51551822	16.34603828	14.28729566	16.21704753	15.30012447
MTDH	17.3210071	17.47208658	17.24939522	18.73653115	18.26518982	18.20009655	16.84395719	12.7493694	16.81832734
MTFR1	16.90783345	17.21023164	16.42248515	12.21576463	12.10384658	11.97649694	12.15786044	11.46630088	13.1148764
MTFR1L	16.77774229	16.91093461	17.04512565	11.35299157	12.36685734	11.75650108	12.45167988	12.70875052	12.78571994
MTHFD1	17.80797754	17.88296165	17.72568812	15.57423545	15.27925594	15.73012371	12.70899757	14.71958796	14.49769593
MTHFD1L	16.14494045	16.29940811	16.05039159	14.74304088	14.51930657	11.51546143	13.11226094	12.47740203	13.89375579
MTHFD2	16.05746117	15.22137956	16.03418071	14.32995344	11.47378498	12.49425124	11.75225945	12.0695992	13.07784834
MTHFS	14.98538976	15.01543382	15.20629448	15.98710241	16.78287794	15.98648889	12.09146176	12.54913249	13.05762748
MTIF2	14.99377456	14.56720257	14.81917633	12.71931792	11.86601086	12.74438839	11.52017127	13.04016576	12.42767982
MTMR1	12.82922117	13.7771381	12.11404735	12.69949794	12.74579403	11.80379699	11.77584605	12.14599056	12.71237374
MTMR12	13.83341115	14.02798663	14.13925055	12.37431451	11.91650767	11.88239384	13.02315181	12.15106495	11.98197233
MTMR14	14.94791022	14.60056909	15.28263595	13.50529763	12.41369088	12.02492169	11.89416871	12.53562305	11.63213975
MTOR	13.85181183	13.21186279	14.08331495	13.85935333	13.09941202	12.74608665	12.37630448	11.83117983	12.17512553
MTPAP	16.42345732	15.96520784	16.20886426	13.68623823	13.6506872	13.45893751	12.8957354	12.61093369	11.81714099
MTPN	17.64445994	17.47887246	17.61796702	18.5910127	18.44497888	19.08499609	13.56931621	12.86085976	11.20944055
MTREX	15.93959685	16.10815162	15.95481977	14.50729617	14.69376235	15.22441602	15.68001243	14.23623931	12.43927769
MTX1	16.91039107	14.21719076	15.32414656	11.52859383	12.79986928	11.30618732	12.29535268	12.51012648	12.25382245
MUC1	15.37964076	15.24631677	15.14165461	12.75808049	11.9392191	12.31064863	12.86723598	12.22781026	12.22803895
MVB12A	12.42317777	12.21110259	12.73895518	11.48389356	12.49839385	12.93856571	12.15042443	11.45872694	11.85883193
MVD	15.14038805	15.42616618	16.63075813	15.01564975	15.68133313	15.3003754	12.92840937	11.49964154	11.73891545
MVP	14.47950423	13.59855153	14.77352591	18.30238426	17.83261647	18.02011611	18.6362692	20.6144014	20.48132375
MXRA7	14.41984105	14.35987265	14.15443986	17.82361004	17.25838817	17.56732201	12.40487555	12.7723477	12.32753325
MYADM	16.84810196	16.49476157	16.48322762	19.55675222	19.21374947	19.25885652	21.41086332	21.45244133	21.70872706
MYBBP1A	15.53962537	15.10282812	15.66345889	15.49204212	15.74058499	11.74612146	12.53291817	13.78221568	12.10117565
MYCBP	17.02674114	17.34683429	17.38216547	18.36027357	18.57286155	18.63350287	17.98400236	11.60266491	12.6634809
MYDGF	16.68744009	16.82606025	17.09259539	19.25559797	18.89715587	19.16975203	12.31471875	12.29067361	11.96266956
MYEF2	16.48080232	16.80045466	16.75712099	16.95667587	17.30511548	17.06708986	16.69206791	16.21808297	17.40904401
MYG1	16.17137635	16.32896838	16.14506351	17.31852129	17.4101825	17.30712464	16.65538682	17.41800245	15.6444299
MYH10	16.14194555	16.06568058	16.13118767	15.36647097	15.75112477	15.8767027	17.42575854	16.86498656	17.16585371
MYH11	11.58552272	12.40527081	13.66529838	14.24412433	14.48657643	11.89838746	23.41784943	23.37251469	23.47248268
MYH13	12.39287167	15.91490242	11.7076211	13.24179362	12.23218738	12.62169503	12.08702414	13.02743472	12.11823399
MYH14	16.30505605	16.43575143	16.39403456	15.59137938	15.4634585	15.34539222	16.19846729	16.61059793	16.53669291
MYH9	17.6858739	17.67430928	17.64705329	17.14883039	17.2519166	17.05136315	17.30362737	16.03044325	15.79814863

MYL12A	18.39778549	18.43573605	18.34847767	17.60958064	17.78588697	17.76118111	20.86242891	23.69004845	20.06443964
MYL6	19.33397072	19.53162564	19.44292327	17.35403672	17.91551439	17.40065437	18.57818361	17.49650804	18.33917283
MYL6B	19.68504305	19.84863765	19.83512125	19.09717904	20.52077986	20.6618819	21.8618708	22.46020162	22.40480136
MYL9	12.70378981	12.70075366	12.39150389	15.17080331	12.18757252	13.31873438	22.35630167	22.053834	22.55658567
MYLK	15.97071863	16.09367083	16.13507259	16.95561305	17.21320178	17.61303181	21.60097599	22.17749884	21.76381216
MYO18A	15.33256926	14.77534974	14.87572326	14.19368255	11.92172547	13.05103647	12.3401436	12.77578117	14.3885512
MYO18B	19.99129898	19.9169783	19.77828063	17.78673951	17.65287094	18.0873174	12.55877486	17.03195069	11.69807812
MYO19	14.50153651	15.49755102	14.07598999	12.63332627	12.87716192	11.97540396	11.61294424	12.02156279	11.74148141
MYO1B	16.59602667	16.8373635	16.1945595	18.12702872	18.0391753	18.3528454	16.80688323	17.17403195	17.20760495
MYO1C	16.10639895	15.9514983	16.06364658	15.94334821	15.96119497	16.37787231	12.79247712	11.98258098	12.22290626
MYO1D	17.04784715	16.98628042	17.00915471	17.1940345	17.57916972	17.52032517	14.30314062	12.01232703	13.91140509
MYO6	15.22914258	15.25514488	15.09041222	17.71717265	17.76894843	17.83821016	17.96198917	17.89434989	12.56539359
MYOF	15.07936415	14.82821368	14.95380215	15.2845934	15.86071656	15.53464854	15.37408179	12.62746095	12.79857421
N/A	16.934382	18.51676207	16.82809131	18.33165909	18.13107743	18.68480911	23.4078955	21.20812869	23.12848519
NAA10	16.43810745	16.46185575	14.91532811	11.81188187	11.82292419	12.30831649	12.93218788	13.24429391	12.77102983
NAA11	14.57494126	14.70163663	14.14476003	11.04850102	12.14284052	12.16763781	12.62013254	12.79698431	12.83632839
NAA15	15.17016938	15.59964853	15.86491169	14.81202852	13.90903502	15.24385483	12.25634332	13.26313092	12.34634858
NAA16	12.76013071	16.34019007	16.1261338	11.24819374	12.02038222	12.60206211	13.03360079	11.13185834	13.13341309
NAA20	16.82494669	17.90255924	17.91918403	11.85166448	11.87295966	12.53533081	12.11731732	12.29753021	12.56883527
NAA25	14.81703283	16.07817403	15.55464873	11.81603892	18.54563549	16.89158881	12.60562267	11.32648855	12.18737141
NAA50	16.48143321	16.04625243	15.98112002	17.9541076	17.67971477	17.48289162	12.02029719	17.28725457	16.94759227
NAAA	14.56465532	14.04053305	14.97734702	12.04011507	13.07181559	13.13893036	12.12612839	12.08407565	12.40833796
NACA	17.89278825	17.59209569	18.2219626	18.19734304	18.27841753	18.33936098	15.84639658	13.02795844	15.40229105
NADK2	14.80783409	14.72647424	14.83426916	18.16000181	18.21691067	18.18889686	12.22650201	15.21041216	11.96839545
NAF1	14.1993721	13.92004459	14.5693458	12.4622601	12.82777572	12.17237656	10.71664662	12.24942563	13.20446643
NAGA	15.5960294	15.86502695	15.35194141	14.12939026	13.44186236	14.60721648	12.18262759	11.95293195	12.37452357
NAGK	16.24252905	16.24161766	16.63113844	16.2221768	16.28687981	15.72805702	15.91565675	16.71428864	11.88632266
NAGLU	16.51205772	17.01396777	16.81611921	11.95256264	13.23507469	13.29390501	11.53232991	12.21222277	11.89828177
NAMPT	16.73460162	16.43474278	16.53289617	18.77907473	18.83129035	18.79581907	18.9329889	19.22704063	18.97765249
NANS	18.15941282	18.04954666	17.92607672	18.42315708	18.76521629	18.46974965	18.80120635	17.79935553	18.04564055
NAP1L1	18.54670728	18.71412475	18.72551309	14.81324226	12.79456468	13.94044803	15.3290417	16.18596625	16.99455266
NAP1L4	17.55603227	17.75503634	17.90921354	15.04484084	15.17375499	16.28522189	12.11512261	14.78730903	11.57391658
NAPA	15.07256449	15.48218453	15.62006231	16.47865432	17.54681627	17.37768828	16.03541804	17.4096801	17.88282112
NAPG	14.98071121	15.11696279	14.62697947	13.85234148	14.31248738	13.58577132	14.76062524	12.58800661	12.12804642
NAPRT	15.63155975	15.80566207	15.72105547	14.97137736	14.78397425	14.79294239	14.82925082	14.72795019	14.99776006
NARS1	16.67865664	17.07329126	16.78585455	17.17102369	16.98167091	17.01691662	12.7159359	16.28603867	16.35276019
NASP	18.68325266	18.62394455	18.74237314	18.48046788	18.42381704	18.64555737	14.30882725	13.96415185	11.76683395
NAT10	16.45286927	16.17523573	16.24880344	15.13785251	15.34545186	15.80928665	11.92190705	11.82703397	12.35822403
NAV1	15.27329393	15.46151921	14.67279732	12.20432277	12.13688615	12.32906276	12.16794921	12.26666872	12.84122504
NAXE	16.94745731	16.82359949	16.88752527	15.99770042	15.70904739	14.68351371	15.14257761	12.8287288	14.76998061
NBAS	12.75139784	12.18363738	12.76338482	12.75141929	14.85966494	12.93975646	11.92605242	11.71319392	12.06385888
NBDY	12.69943252	16.26328369	15.93708745	13.42279017	12.12458927	11.65393055	11.31196501	11.76987027	12.63707821
NBEA	14.79357592	14.76397539	14.6610667	14.34016845	15.28191386	11.57511986	12.22741335	12.51329118	12.48156981
NBEAL1	14.2937592	14.29773461	14.04139487	12.38979958	11.86760541	12.37574665	12.48613532	13.81171852	12.66299231
NBN	15.21155693	16.89120454	13.17469692	13.9830278	12.63865737	14.06911133	13.02329716	13.16084969	13.0527419
NCALD	14.61728775	15.37308015	15.5999505	12.53077607	11.78458281	11.57910111	19.06968233	19.04574268	19.06644801
NCAM1	15.46917849	15.57294621	14.92212331	11.32310904	12.0758322	12.73837391	11.42352172	12.29067313	12.98356287
NCAPD2	14.75253981	13.42707534	13.99425464	11.98943011	11.39125214	12.49024985	11.95948399	12.54450822	11.1578607
NCAPD3	15.31710026	12.25435126	14.5457078	12.86419725	12.7924163	12.92531987	12.60864555	11.95893205	12.18555281
NCAPH	15.50103786	15.91262777	15.79055363	12.75597724	14.29758404	13.47166142	12.89616126	15.38996564	16.50511277
NCAPH2	15.68666112	15.76349295	16.20496835	12.04715839	12.55299606	12.75303322	13.15600027	11.8254262	12.11662519
NCBP1	16.40938924	16.48172813	16.57879427	11.88302249	13.32754347	15.43434799	12.57156505	12.09960947	12.56427372
NCBP2	15.52570049	16.17697687	16.10257813	16.59189088	16.10710503	16.3111273	16.85952045	17.00897622	12.13520944
NCBP3	15.06498188	14.73056737	14.7874955	17.23418335	16.8233146	16.84422954	11.83484224	11.92542737	12.35757032
NCEH1	15.61159509	15.5803549	15.04301909	16.19183572	16.07939721	15.00350114	17.53216683	12.19623355	12.6468462
NCK2	15.48497644	15.76703773	15.48935964	12.28013982	11.84435629	12.77868684	13.13639199	13.59485181	12.26607937
NCKAP1	15.55066683	14.51506473	14.72586303	15.3820667	14.95345896	15.28681175	11.45865392	15.07742581	15.25397332
NCL	20.35000752	20.26800463	20.42369577	19.25477978	19.18051797	19.02216664	19.00996677	18.87935422	18.34487598
NCLN	16.0980134	15.9922711	16.06987172	15.02935056	15.58584524	15.19472796	12.71587307	13.04453534	12.99208529
NCOA1	13.57735516	14.51671637	13.98132769	16.86476124	16.6090963	17.06746616	13.39801198	11.25716252	12.58522135
NCOA5	16.99130147	16.43898919	17.17598099	17.23901767	17.38887373	17.27249142	13.98633157	11.55265232	12.47722221
NCOA6	14.11384316	13.6328175	12.75480627	13.04694088	11.26342505	13.32376836	12.8259526	12.21658526	11.80003305
NCOR1	15.15691751	15.33904099	15.15311902	14.18979133	14.47847623	15.44972299	15.21680739	13.47408986	13.72517199

NCOR2	15.04702247	15.15859413	14.79425837	15.53406979	13.95102652	15.78462783	15.81054823	15.95633806	16.49097849
NCSTN	15.36072714	15.14425174	15.24553835	15.3947462	15.61829343	15.16384057	12.1675787	12.28795475	13.57153137
NDC1	13.65388235	13.76143798	14.21475296	14.38287553	14.18663575	14.41331784	11.48947746	12.18008554	13.24280819
NDRG1	18.154441	18.06911639	18.1791417	18.54915875	18.07287449	18.38414855	13.54627853	17.2258649	15.38781801
NDRG2	16.58523919	16.50388491	12.00011108	15.26782913	12.29467203	13.59091414	13.43962868	12.95383605	12.83574917
NDRG3	15.75024932	15.64032228	15.31359762	17.61877063	16.15280678	16.38535958	16.75376433	11.88455494	13.06602118
NDUFA1	16.04271459	16.19890912	13.59560318	17.28010147	17.48789435	16.95013393	18.32979371	12.39282135	18.19029803
NDUFA10	13.91849209	14.40640826	16.31749594	12.83971439	12.26730813	12.53224553	12.61043726	12.25492654	12.88006146
NDUFA11	14.41641319	13.2972318	14.14772367	12.53711756	10.82338899	12.55466126	13.09727363	11.94122544	12.02479153
NDUFA13	16.56412372	16.37380476	15.62384897	14.66512133	15.95306709	15.33786743	14.83079083	13.33364376	12.45767763
NDUFA2	18.10683598	18.59358984	18.29472783	19.03318095	19.24366038	18.90979509	18.66916776	19.10353717	19.21878409
NDUFA4	15.45916304	15.75979664	15.72362323	17.17728182	17.88458499	16.09954305	11.70401233	12.26987831	12.26996602
NDUFA5	15.57530116	15.54392284	15.33561714	11.67888473	11.47470463	13.4780069	16.99064931	16.45374779	12.14386611
NDUFA6	16.20697015	15.78970573	15.59194232	12.54658248	12.42477985	13.00215891	12.23854307	11.52659333	11.07184141
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NDUFA9	16.40733636	15.94058518	16.10869683	12.27008148	12.87449669	12.54920138	12.49002927	11.92319835	12.49752635
NDUFAF2	14.52632531	15.8721122	14.75496452	12.25720458	12.06018783	14.30941117	12.0361443	12.93941218	12.31621339
NDUFAF3	15.48117282	14.95443368	15.66468274	13.03647684	12.51840083	14.60511563	13.32890264	12.93186441	13.08880939
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NDUFB1	17.25090838	17.14798834	17.1842903	17.59753401	17.71065638	17.6325654	12.09108057	12.85971067	13.30267737
NDUFB10	15.60281132	15.40186284	15.58728493	14.49028883	13.81615984	13.40826185	11.98803436	10.85588759	13.28397753
NDUFB11	20.07217742	19.84185215	19.85119942	20.60475127	20.79421281	21.02187739	13.11117598	12.99331575	12.17219706
NDUFB4	18.32255002	18.35669736	18.18054702	17.07584431	17.25904074	16.94662653	17.61178293	18.10391606	17.47027491
NDUFB5	15.84643501	15.99806503	16.11337684	15.16210102	12.48568055	10.68702782	11.66442912	12.54230504	11.94088686
NDUFB6	16.89706457	17.21166791	14.70958096	12.4088784	13.0491221	13.69326427	18.44015546	13.46229617	10.61905439
NDUFB7	15.23242312	16.05868166	15.31646421	17.47761391	17.3231499	16.4368178	12.0952197	13.08965871	12.05135077
NDUFB8	15.9696517	16.50392044	16.26583104	12.67945845	18.08732937	18.14189976	19.84628579	20.32382066	20.02938864
NDUFB9	16.47455602	16.58831779	16.66455342	15.48357177	15.03945561	15.34007883	12.8714574	12.51897502	12.7359558
NDUFC2-I	13.54836691	13.71990725	12.08200163	19.58235917	19.17021627	19.38909636	20.11606934	20.05809317	11.85982321
NDUFS1	16.53947295	16.49243883	16.92212846	16.86443758	16.59292496	16.84438317	14.31422657	13.05243376	16.97711907
NDUFS2	16.3195055	16.32509842	16.63358177	13.90756737	11.80109138	12.23864407	11.90773228	11.83987058	12.13504185
NDUFS3	17.38520818	17.47434597	17.44242938	16.31993604	16.26393284	16.42883103	16.34489298	16.00311186	15.24707679
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NDUFS7	15.82691873	15.46540168	15.75552355	16.91536146	16.55984733	17.11875395	11.99886768	12.83380955	12.73215829
NDUFS8	14.81722574	14.31701993	15.36994112	14.06966346	13.7531226	14.66373973	16.11583958	12.12423722	14.46305233
NDUFV1	15.07769107	15.09501189	15.32168683	13.15579138	16.05834698	14.01851926	11.24804672	12.247822	12.19345162
NDUFV2	16.30074445	16.71959678	16.44542274	14.23428857	12.6355626	12.8027847	12.81709834	12.39009941	12.57080626
NEB	13.42228844	14.34435976	13.16262569	13.355184	14.71520486	15.91344394	18.21120088	19.69064542	19.42493307
NEBL	15.59968424	16.161864	16.45462983	15.94401796	13.68397759	13.38360613	20.17946261	19.98666643	17.29900122
NECTIN2	15.69215382	16.00063874	15.50331465	17.72109277	17.75423459	17.91568079	12.84181706	12.34928786	16.82413753
NEDD1	16.46589013	16.89315068	16.21029932	17.27815425	12.18999424	12.26497602	12.39372201	12.46577341	12.60310041
NEK5	17.45293566	13.0994221	11.99696478	12.0086814	12.74046462	11.74931129	13.09943809	12.02427638	11.78574609
NEK7	15.03517796	15.24170003	15.18622194	12.89892516	12.05312844	12.99379397	11.94838023	18.09550287	18.1981008
NEK9	15.2221563	15.07793541	15.41133144	16.6281216	16.28376455	16.51660685	16.76629562	16.7483588	11.6240006
NELFA	17.63613678	17.90628673	17.65516853	18.89137343	18.87476871	18.87536969	19.31487353	13.06609292	12.04475747
NELFB	16.25317101	15.50711413	16.31800206	17.15725697	17.2089233	17.74243972	14.50580842	15.26843693	12.42950876
NELFCD	15.2334284	15.40034452	15.4811172	12.787399	14.45472704	12.23621263	12.54329243	12.1966859	13.0372897
NELFE	15.53268427	15.43560072	15.62117333	14.53135481	14.94423038	14.24565258	11.66862315	13.34291155	12.1815735
NELL1	11.99558061	14.90548822	14.71389609	12.66308123	12.10010309	13.03351097	13.90418129	12.97018138	13.19653178
NENF	18.55284026	18.6081832	18.5131984	18.04127827	17.83422053	17.81347316	16.66104529	16.70507998	15.2079563
NEO1	13.55352791	14.08862477	13.69190018	15.97795031	17.50937524	17.66183042	12.66194387	18.26597215	12.58034128
NEU1	16.12297674	16.28887298	16.31468503	15.18914945	15.02915357	14.89379729	12.25350316	11.30779001	11.54803244
NF1	12.53732141	12.32645161	13.16120641	13.60448144	14.00245184	12.98833985	12.49531875	12.73005788	11.86722157
NFATC2IP	15.357177	16.03822177	15.80194833	12.52599537	12.22428366	12.05561264	12.15877522	11.77580813	13.26552096
NFIB	15.90185688	15.86750301	15.56632096	16.24805144	16.39853859	16.06141778	12.7983891	17.47428247	16.81577976
NFIC	10.53967065	12.60190969	12.65620511	12.97743242	12.24668615	12.34284941	13.31593799	12.26130673	13.9351266
NFKBIE	11.58449999	13.0110412	12.70240026	22.37515794	11.9580308	25.04671668	12.51810654	12.67340542	11.71712595
NFS1	16.3930717	16.68388655	16.51230443	16.71470795	16.78230902	16.6257358	15.06403801	15.48063226	15.18327204
NFU1	16.60457555	16.68229893	16.40439945	14.24119085	14.51681861	13.69753367	13.07372705	12.2927869	12.42530352
NFXL1	15.85202767	15.64143365	15.87643239	14.68975824	16.15077269	15.93628757	13.08613249	12.79948085	12.61025039
NFYA	16.2395224	11.61745778	16.49061071	12.84327452	12.22781704	12.78320402	12.32024175	12.76835852	11.50671111
NFYB	15.89864969	15.85310686	13.36073959	12.68708593	12.10380468	12.13441772	10.63346639	11.76573714	11.27208273
NFYC	16.26413618	16.48045001	16.25145175	15.32965264	14.84433707	14.59778188	12.9630754	12.47520494	11.57075716

NGDN	14.9758012	15.62380963	15.51774063	10.85527538	14.49089976	12.72612358	11.68150127	12.3439661	13.03511009
NHLRC2	16.11062091	16.03256398	16.58617512	13.08120484	12.3321623	13.9067534	14.74237861	12.3031371	11.50674322
NHLRC3	14.82869706	11.22874656	14.18567276	12.71849383	12.10693709	11.99415312	12.89034192	12.61512507	11.68155073
NHP2	17.8276631	17.98511871	18.08926388	12.91676131	11.74950784	12.86043679	11.76150431	12.5265132	17.82014027
NIBAN1	16.69559473	16.71869032	16.74192436	15.85365613	16.39260704	15.93768825	16.6160453	16.32367626	15.35171954
NIBAN2	16.83252405	16.84488677	17.00047485	17.14427845	17.08481329	17.15240203	17.49706799	14.08446443	12.59880923
NID1	16.12748094	16.18995326	16.1719114	17.85392322	18.11804064	17.98696969	19.48670124	19.78695224	19.78942208
NID2	13.06876966	13.61100311	13.04225461	19.02793285	19.35920466	19.5532023	19.84823406	17.52004233	20.22679233
NIN	17.44681465	16.72541431	17.59824281	17.79720211	17.28516623	17.42676646	11.99843553	11.83275081	13.5311382
NIPBL	15.0080034	14.72593828	15.4784433	11.84303273	11.99614707	13.77493829	11.78397624	12.25823526	12.76190776
NIPSNAP1	16.62205882	16.61034329	16.96232259	18.26826954	18.86750935	18.48203327	18.89934664	20.56783763	19.88607852
NIPSNAP2	17.49445315	17.24079438	17.06331705	19.84985903	19.678025	19.78423798	21.12053809	21.04545739	20.52310587
NIPSNAP3	18.04124	17.62362524	17.8192311	16.11015701	15.88122181	15.47699044	13.10454625	11.93197927	12.54319603
NIT1	12.15111309	15.7798478	15.4964901	16.03541781	15.80835697	14.716613	13.70982078	11.7487385	13.33890983
NIT2	15.93633137	15.85542526	16.23505507	12.2075217	12.91948176	14.3725093	12.87166119	12.16672528	12.35517483
NKIRAS1	14.83865066	14.39250626	14.73495184	11.27006724	12.99984856	12.0471991	11.53597177	12.52859853	12.54498429
NKIRAS2	15.56075384	15.14754181	15.5763368	11.4219954	13.0537117	12.38251763	13.02257947	12.53021864	10.96265636
NKRF	15.61872073	15.32528607	15.01509426	14.66445891	14.6261889	12.18581155	12.26022251	12.93514667	12.93392488
NKX2-1	18.7966087	18.68208021	19.01229293	16.06182956	15.35014381	15.07721572	12.5155354	13.50561347	12.63650782
NKX2-4	16.67896178	16.68854725	16.91660077	13.476497	12.40011487	12.46247938	12.2115118	12.44747789	11.93373236
NKX2-6	15.61289707	12.60669233	15.30873547	13.13057659	12.57336729	12.21577557	12.81647576	16.75524964	12.67227953
NLE1	13.55402318	14.29215019	13.27288247	12.85088152	15.64754579	11.87893537	12.51593266	11.58937972	12.70118175
NLN	14.98589716	14.89940091	14.26250373	11.36664875	11.53839649	11.95416424	11.92443593	12.83047757	12.11848542
NME1	18.74326289	18.77767497	18.70318839	18.57912045	18.70469247	18.19394173	18.59351881	17.18790783	17.00922584
NME2	16.44254118	15.73918123	16.67431813	11.93612896	12.3169111	11.98005927	11.83318679	11.95508437	12.68276883
NME2P1	19.64785822	19.81569628	19.65573777	19.77531107	19.98296918	19.88577213	19.13603644	19.40368563	19.21708509
NME3	17.32412976	17.40690989	17.16922094	19.77023249	20.21437161	20.18772904	13.01874067	12.01043591	12.16718059
NME4	12.83088918	15.60611328	13.98831183	12.42316541	12.40075942	12.22863676	18.04364266	12.98928938	17.86197851
NMRK1	15.32241557	14.82783229	15.51308326	11.80907644	12.16811048	11.78701228	12.27891838	12.03328754	11.85165864
NMT1	16.19662566	16.23222759	15.90169668	13.81628707	14.18922286	13.58109944	16.29376844	11.69813301	11.76320357
NNT	17.57138357	17.62399924	17.4164848	16.42551805	16.42019643	15.71691226	13.19957425	15.21825478	13.91558435
NOA1	15.6433549	15.73989329	15.73661068	11.79131779	12.93472886	11.65582356	13.11704779	12.6480803	13.68994525
NOC2L	14.76560832	14.6255565	14.55730547	15.49798346	15.01059625	15.36648025	12.81211972	12.11259873	16.54389955
NOC4L	15.56811664	15.85243739	12.72124258	12.88453751	13.12821621	12.53564421	12.22754054	12.06884903	12.59538688
NOL10	15.59060516	15.86078345	15.98861686	13.16813749	12.25280626	13.72906165	12.02100627	11.82115612	12.04456289
NOL6	15.43480792	15.38436792	15.54307515	11.71255848	12.08117869	13.16903064	12.24479499	13.84747639	12.04857054
NOL9	14.6697594	15.28567371	15.64700689	15.84963067	15.89880935	15.06412305	15.95844514	15.64887506	12.82290025
NOLC1	15.59994709	16.20179846	16.75257221	17.46517946	18.07926451	17.75386943	11.53025188	11.80570241	12.66670602
NOMO1	15.71670462	15.88416518	15.90807012	15.08020387	20.13691945	15.11458222	19.53687435	19.73274614	15.33841655
NONO	19.46100226	19.58424849	19.65596527	19.5012544	19.37080907	19.40061245	19.26703289	19.39907332	19.4661626
NOP10	15.73925618	14.01038115	16.62160058	14.57778597	12.63226438	12.74962685	12.58271259	11.00206251	11.65142518
NOP14	14.9289946	15.00494429	14.95206954	13.3321574	13.89114561	14.29892314	11.78430215	13.15721048	11.45766493
NOP2	15.1419229	15.32192081	14.46951783	14.79858838	15.71744365	14.5063851	14.18735634	14.39683807	15.51369236
NOP56	16.86128216	16.58987322	16.82509297	14.7139393	14.19718215	14.63385259	12.43331522	11.06776259	11.14619168
NOP58	17.36885662	17.21077367	17.17917013	17.25872573	17.17596868	17.03405829	12.16113393	15.55570037	15.15989039
NOP9	16.45273647	15.14443771	15.41040999	14.65416558	13.28109962	13.89153213	12.87990334	11.7724756	11.83458939
NOSIP	14.75853849	15.22222911	15.31252642	15.62451417	14.80964993	11.74356475	11.98376759	11.91733503	15.45325999
NPC2	13.32937587	13.95266484	13.36135374	16.6697168	16.7249977	16.9203756	11.79340803	12.15121726	13.04219778
NPEPL1	15.14247258	14.91313792	14.84862693	16.02707316	15.42885853	13.02485083	12.43550247	13.20556319	11.72628496
NPEPPS	17.18292398	17.18049191	17.04829456	16.83148333	16.59006382	16.56552646	16.87076262	15.90741133	15.91559715
NPEPPSL1	17.25928234	17.22110011	17.03469619	19.98248412	19.9279933	20.14520565	19.48965951	19.46237991	18.91711398
NPLOC4	14.9974982	14.95999397	14.96178226	13.37002092	14.22961325	13.19734613	11.77045358	12.42359191	12.39592668
NPM1	20.74165885	20.60579092	20.73277082	19.22013849	18.74696196	19.03139206	17.64862821	16.97860376	18.24203843
NPNT	12.82931095	14.51964296	11.75463602	18.30010232	18.28337156	18.22762964	18.84877655	19.25738508	19.21818467
NPTN	15.40187015	16.00495935	16.14867498	17.32320167	16.97496688	12.03017851	16.92421428	12.78754341	17.04517874
NPTX1	15.14569916	15.09841386	14.87705613	11.35190809	12.317685	13.43519232	12.84977972	12.36694844	12.72794253
NR2C2	14.34319655	15.17311946	14.4899158	12.98077288	13.0722451	14.06920528	11.67156777	21.28005605	11.27456502
NR2C2AP	16.58393626	15.99325983	16.38403108	11.92775884	12.73141669	13.24655834	12.28389944	12.33954846	12.15382416
NRAS	17.4124165	17.47524418	17.57758306	17.06942329	18.09890772	17.2812294	17.43602733	18.841581	17.96348772
NRBP1	14.88685702	14.69383463	14.80687903	16.56262131	11.94691664	17.06236205	12.66184282	12.77274371	13.08921479
NRCAM	15.41832008	15.47054917	15.30341048	12.56830786	12.66614527	11.85669354	15.70388092	12.99895563	12.67855034
NRIP1	12.77876581	15.66359774	13.0204426	12.27370231	11.80864369	11.62310822	12.0794877	11.57110265	12.28606641
NSD3	15.69074319	16.05687801	15.66535993	13.04963271	13.04209287	12.64574263	11.68470061	12.68975083	12.50054163

NSDHL	13.63859937	13.38761644	11.05846808	13.86516486	13.83077482	11.59953745	14.04511235	12.08377865	12.2324574
NSF	16.23708816	16.13670971	16.39926241	15.21145462	14.8732683	15.23100489	11.68554562	12.36078451	12.06198508
NSFL1C	17.72156758	17.963633	17.69856209	18.05125266	18.07231424	17.76536877	14.40965264	17.59297744	17.34597206
NSL1	16.50009145	16.32132423	16.15429953	12.61193261	12.47213967	12.41814253	11.41188575	12.47434303	12.29823656
NSMCE1	14.42052022	15.02025031	15.31913213	12.95323173	11.63686318	11.58448381	11.80663302	13.31621141	11.78751919
NSMCE3	14.65603709	14.99320078	13.93419556	14.45678429	12.99906671	14.7381509	12.29656604	12.46637127	12.96132932
NSRP1	17.75208509	12.33382849	11.81200888	11.50418425	12.01820254	12.68160582	13.01456343	13.12713065	11.97624246
NSUN2	16.91563676	16.997212	16.9092855	15.00717918	14.55324534	14.79020321	12.18610705	11.42641928	12.8446058
NSUN5	14.00154819	13.57116833	13.45650192	12.54588369	13.31139209	12.95464711	12.67774223	12.13630953	12.10860094
NSUN5P2	12.06682721	11.37062962	12.2007452	12.32333006	13.46768824	11.47324022	12.87653916	14.0173458	11.93448862
NT5DC1	16.00689436	16.13446754	14.89014197	14.06768079	12.82721814	13.8980349	19.27528614	18.03424433	11.40655971
NT5DC2	15.99189924	15.83947427	15.14027359	12.32749973	14.44780741	14.39617697	12.7070601	12.97613031	13.04407647
NT5DC3	16.23593546	15.54757036	15.6050679	12.59559216	12.37353013	12.49802572	12.45232819	12.10111008	12.84934557
NTAQ1	16.24067659	15.84404277	16.42574439	12.57865859	11.91754397	12.46683912	11.28612963	13.2941001	12.41459578
NTPCR	17.54477684	17.5621481	17.53326989	13.19048354	14.73249453	14.29784391	12.71144556	15.70749452	15.32398829
NUBP2	14.29843703	13.88499031	14.33227935	12.09950849	12.14837326	12.17435607	12.01207365	11.23353759	12.5839293
NUCB1	17.03145974	17.18246563	17.07947545	17.30020253	16.61560747	17.1377771	15.10905975	14.18001283	15.25270012
NUCB2	16.69669894	16.55160255	17.06681031	15.81676977	16.23215726	16.5204028	12.51711023	12.5418262	11.21220236
NUCKS1	18.00714419	17.96192843	18.14385583	20.05984081	19.70404777	20.03318962	17.83387451	18.90855079	18.17974617
NUDC	17.58221015	18.12120876	17.74986184	16.06337563	16.22048181	16.67415486	12.9783591	12.21814876	12.65728102
NUDCD1	16.46524845	16.87178188	16.67609701	11.79108332	13.09472394	14.93797492	12.71873762	12.8156368	11.48903045
NUDCD2	16.6990156	17.16075283	14.39396028	12.85154888	18.14489188	18.69292911	12.24585832	18.19099364	12.71745615
NUDT14	16.89425584	17.28372592	17.0970194	14.97378557	15.18989301	12.57347637	11.9239266	11.44940462	13.10910894
NUDT16L	15.68340524	14.79632877	15.08432809	11.81409207	12.87142356	13.32420818	12.52504718	12.69910269	13.20321878
NUDT19	16.18879873	16.44178666	16.66406684	17.56452209	17.43811655	17.67896501	17.36418753	17.79279856	17.05057603
NUDT21	18.47019514	18.35128284	18.40913541	16.55486543	16.4206995	16.11750557	11.44249719	16.88133421	11.82143327
NUDT3	15.91204132	15.85399899	11.89489657	13.17707241	12.64955213	12.58232874	12.61484113	11.81810683	12.20278191
NUDT4	15.36479796	14.34103346	15.20915139	14.97974065	14.63377778	15.74839633	12.11989206	11.85909536	12.632937
NUDT4B	16.99047589	16.44936608	15.47917176	11.61135865	12.74881007	10.99275783	12.51205988	11.69852255	12.23810696
NUDT5	17.32772765	17.4300699	17.39371697	16.49859961	15.88518792	16.36106194	12.14220109	12.39528768	11.21402458
NUDT9	14.26692587	14.7757735	13.00217948	18.04321134	17.83250797	18.08928758	19.29830293	19.05771602	12.85065387
NUFIP2	16.05633854	15.96412371	15.59273544	15.6455515	16.9037902	15.11484015	12.08909145	12.94981828	12.75965938
NUMA1	17.29771116	17.34176765	17.41656314	17.95228843	17.903957	18.00075428	17.23540579	17.30278344	17.41898199
NUP107	14.93951203	14.60972278	14.79777675	16.31825126	16.35427872	11.53674558	15.35804369	12.05306371	15.59215416
NUP133	14.35125489	16.02802484	15.54153349	15.10411197	14.61761416	14.54053359	12.37960376	12.37743536	16.18687101
NUP153	15.71394211	15.86066139	15.50719864	14.33736768	14.94947203	15.79005604	12.7540088	11.15269449	12.52051514
NUP155	14.80396655	14.57225294	15.2320712	14.62232592	14.08399523	15.39088282	12.15409424	15.41160533	11.80803251
NUP188	14.27527022	12.96562063	14.17649461	12.37835432	11.79034073	12.24505714	11.65461009	11.73374566	12.21260657
NUP205	14.2604006	15.05635488	14.20925609	12.25026518	13.52881335	13.47462792	12.00635895	12.36140424	12.82278385
NUP210	17.22191379	16.8870841	16.75541236	17.45418112	17.71663965	16.99667069	16.78204213	15.19563288	16.71808466
NUP214	15.73019729	16.09096214	15.81235415	18.28070025	18.13757739	18.231569	17.23966997	16.94842298	18.1964246
NUP35	15.90251172	15.84821261	16.21444171	16.61345039	16.76223442	16.67543776	16.50217075	13.83518934	16.09408834
NUP37	14.34130404	15.95078959	14.59779783	13.82509418	13.0839748	13.14387675	12.73133789	12.38169407	13.25242875
NUP43	17.41973123	17.49497606	17.30767906	15.4006451	13.85456561	14.81641629	12.34835095	16.30057402	17.46291741
NUP50	15.61412464	16.492887	16.85124271	11.65871588	13.82328698	15.54603473	12.64146216	12.85461704	16.54890847
NUP54	14.36523545	14.27956651	14.10368306	12.96461198	11.34426237	13.3975528	12.67935158	12.09126098	12.72307804
NUP62	16.64294756	16.4505462	16.13496147	11.83690236	13.25631911	11.9706127	12.95919891	12.18369592	11.01362141
NUP85	14.51879692	15.1622482	14.67425696	15.61176767	13.02330695	15.34738502	12.63004811	11.53946537	12.17387
NUP88	15.7620438	15.87421616	14.98709106	16.06708696	16.30598967	16.00765768	16.37379801	11.65205084	16.43085468
NUP93	16.84534097	16.28109677	16.27506387	17.62109089	17.63025877	16.9015128	17.26445201	16.92524356	16.75504362
NUP98	14.85425298	15.11831024	15.33263596	15.57332528	15.65578444	15.26851099	14.28163432	12.0755673	11.85979755
NUSAP1	15.08347666	15.54872465	15.0921788	11.75197634	12.44279992	13.10092023	12.9413048	12.09652845	13.24595489
NUTF2	17.7859132	17.74602575	17.65454855	14.97620045	13.50956437	14.91339742	13.05335577	15.58845349	13.46972535
NVL	15.23879094	15.60952469	15.54085151	15.62095403	16.02065833	15.68234717	12.35528506	11.74325451	12.37114548
NXF1	17.14174421	17.37642877	15.66147853	18.77432032	19.12955502	19.14766635	13.0365293	14.26277616	12.67479736
NXN	14.78901684	14.89267321	15.16279661	12.00844952	12.4035298	14.1517005	11.9169422	12.53469857	12.35747042
OAS3	16.88836912	14.63299943	14.00768555	13.74087454	11.9537654	12.32866791	11.99493034	13.00561251	12.29622115
OAT	17.10583312	16.95070532	16.96417378	14.39007215	15.1096246	14.40262868	14.61452106	14.6164637	12.3392698
OCIAD1	16.89115747	17.00260504	17.10749824	16.74558252	15.67285032	16.59320211	11.42319244	14.74439891	12.30221185
OCIAD2	14.53049013	16.11839377	16.87360977	17.60454408	12.06507995	11.81956214	12.30922611	12.82099722	12.83122823
OCLN	17.18091975	17.16864454	17.0319865	12.71110455	12.61505115	12.60110473	11.79839117	12.64507104	11.30121628
OGA	15.58886907	15.80927735	15.93790294	11.70993599	11.58530357	12.22779307	12.29660076	12.76102333	13.24207159
OGDH	17.18958467	17.52514797	16.69842717	19.1289572	19.25423351	19.12857015	20.32903153	20.39441742	20.70296042

OGDHL	17.20443008	17.28230304	17.51573589	20.85444502	20.76549386	19.75377769	13.07604422	11.93616527	12.20860937
OGFR	15.38747083	16.09189939	15.97730736	11.95242362	11.53267331	11.99451923	10.96389943	13.1653062	12.46317418
OGN	11.58515752	12.23160989	13.30182586	20.71728124	20.44616383	20.77187399	21.5094347	21.6822403	17.57623409
OGT	15.69117384	15.36831517	15.19260367	15.77979239	15.3116158	15.6628684	11.75317657	12.55872544	12.74620332
OLA1	17.00162839	17.17868609	17.15119393	14.87280087	15.38658492	14.8582015	14.13228124	13.26849499	12.44213168
OPA1	15.46764739	14.97623782	15.27283607	13.8995283	13.34692908	13.08287148	12.52633246	11.98013499	13.21983127
OPLAH	15.93659321	15.28034574	14.81589109	13.66866675	13.55969279	15.17660294	13.53533405	12.00693819	14.77539248
OR2T3	12.95280135	13.26069583	12.73879415	13.52022847	13.19573379	12.87098243	11.97651044	12.23630575	11.8901418
OR56B2P	17.16961602	16.4998293	17.26530323	12.31629443	11.22390727	11.76744011	12.52784208	11.99759877	11.52588868
OR5A2	12.36872002	13.17407502	19.10234855	11.43852464	11.54905844	12.22253603	12.6309835	11.99570483	12.3336236
OR8J3	12.20709496	13.4601597	12.27944248	11.68023159	12.13348559	13.25793231	12.04270715	12.52251607	12.28562857
ORC1	15.34860232	14.80249991	14.25051937	12.44265977	13.065927	11.14648227	12.82646474	12.11494914	12.48531349
ORC3	14.37519132	16.42067443	14.65654394	12.02918091	12.88302247	12.55004887	13.2503326	12.24214652	11.52711846
ORC4	15.11233067	15.68154949	14.99893997	11.69047295	12.83782032	12.36496753	13.05626679	12.26607461	13.00909574
ORC5	12.86116657	13.58728275	10.05661715	13.21322939	13.67359333	13.25573236	11.97848937	12.24009674	11.93064226
ORM1	19.35477163	19.30777447	18.38860909	11.63285626	12.05289279	12.49642872	12.51182257	10.8187564	12.22195797
ORM2	15.52618017	15.80879431	15.64164536	12.50921341	11.03773401	11.90125919	12.56176301	11.55887191	13.13320718
OS9	16.15160998	16.19395295	15.89137739	12.25393117	11.75552906	13.17038708	11.65218448	12.1914053	11.15423659
OSBP	16.39754404	16.55912963	16.27484605	14.90490575	14.15258421	14.03068018	13.09908939	12.27664321	15.20996759
OSBPL10	15.32436203	14.78459706	15.5746776	13.00808404	12.8531536	12.27042026	12.57203709	11.56197537	12.07593218
OSBPL11	13.95823736	13.83760748	13.45416677	11.59123687	13.0030414	10.99324186	11.54792009	11.22822572	12.34333688
OSBPL2	13.49563801	13.17825742	15.7969202	20.2230768	20.29873996	12.4766653	12.70230452	13.68326576	24.09587046
OSBPL3	16.80895498	16.67060906	17.25815879	13.32712496	12.93720048	12.46094844	12.64659611	13.23932591	12.97671313
OSBPL8	15.49803377	15.05726539	15.47412099	11.82119076	13.02918893	12.51618235	12.67652712	12.38492818	12.28878203
OSBPL9	14.14276071	13.34826948	14.16640555	11.96558519	11.74563279	11.83362828	13.40371955	13.37336905	12.62675332
OSGEP	16.1226095	16.08969189	16.17241201	16.74779541	17.22163834	16.70638689	12.35460969	17.58330743	12.05528574
OSTF1	17.35480894	17.34172	17.55683774	17.69140449	18.09593341	18.30444281	12.83331909	12.94160632	11.94404764
OTC	12.92105331	13.22774809	16.26306804	12.94166776	18.10978257	18.35234773	12.58338708	12.26172777	12.7654466
OTUB1	18.43043969	18.50040721	18.31332531	13.49990072	13.21904263	13.17030176	15.94471212	13.40129324	12.57995149
OTUD3	18.27273738	16.51068976	18.55118746	18.38038072	19.98554347	12.67009366	11.34544622	12.04285678	13.3108565
OTUD6B	20.85768969	20.70183709	20.70092295	25.21871212	25.25206983	25.22055382	28.44089069	25.4940167	11.66746027
OTUD7B	15.44106924	15.93327419	15.6040022	16.07347096	16.5006347	17.00769036	12.17251476	12.62300319	12.89303803
OVCA2	13.1690099	12.70004983	13.16004203	12.62996977	11.48011247	13.09624818	12.71862039	12.38351295	11.67140679
OXA1L	14.89202451	15.45383069	14.0748227	13.3409882	11.79898497	13.4588929	11.71622887	11.97689311	12.56376717
OXCT1	17.05757634	16.96924744	16.7448662	15.98225058	16.8572139	16.07307943	12.25777292	12.29189228	15.50866839
OXR1	15.94075693	16.42999901	15.29761491	15.77711385	15.21043878	15.95277869	12.41964855	13.01904326	13.77461275
OXSR1	16.35202882	15.79961638	16.46918646	16.28133767	16.68079816	17.58255921	13.12439538	12.89890905	16.05726459
P3H1	16.05357849	15.79441302	15.4816374	17.18228829	17.22480819	17.16835885	12.02927872	12.93377528	11.25144271
P4HA1	16.39099695	16.28407597	16.57927449	12.23770375	11.95721582	14.0163682	11.86771292	13.71896053	12.71482323
P4HA2	14.73086209	15.29998416	15.01538596	11.91304876	12.35978627	11.75205675	12.26000795	13.11522682	12.74672103
P4HB	19.55229835	19.63251881	19.59749711	20.09344224	19.94523123	20.0098292	17.62367077	17.6982799	17.84211045
PA2G4	17.46739988	17.35956278	17.59251281	16.94605335	16.56806788	17.08416172	14.22935831	15.80389241	14.35629279
PABIR2	15.29851092	15.32828242	15.62769733	17.10653303	17.03910889	16.62331698	12.95543576	12.36166924	13.22167478
PABPC1	18.77993595	18.79912108	18.87247078	18.63353085	17.86390771	18.85562372	17.54735656	18.67541809	19.2403058
PABPC4	17.70455109	17.34171647	17.66444274	17.57296705	16.88545928	17.93350726	16.25483138	16.4926397	16.5569935
PABPC5	18.73525196	18.93243505	18.89243649	18.52036844	18.63577495	18.97659686	17.51495203	18.58848057	17.5266605
PABPN1	18.06313911	18.02658621	18.07885744	16.53249805	15.9537315	15.79292722	17.74182895	18.22143926	17.44813432
PACSIN2	15.71666701	15.74113151	16.12789175	16.174893	15.76789618	15.72474732	18.95797194	12.13481337	13.14948786
PACSIN3	14.21943082	14.85080706	14.96849482	12.73197465	12.09777449	11.5827775	12.23235641	11.83683622	12.16614912
PAF1	14.94894627	15.35439406	15.37510223	15.17350157	13.7348038	14.2569881	12.81276539	13.02962594	11.88601468
PAFAH1B	14.81305232	15.43289899	15.33234138	13.6272499	13.66700162	13.5641922	11.91612324	11.91106616	12.13846393
PAFAH1B	17.84903562	17.43146903	17.34160731	12.14413994	12.37841371	12.15152866	12.34187503	13.51652287	12.08049873
PAFAH1B	18.99116869	19.52479489	19.1778427	15.3308705	15.44661712	15.45469086	12.11336034	12.24173059	11.53409588
PAICS	17.28130054	17.76282237	17.98812598	16.97985001	17.2311296	16.32293561	16.58767186	16.87649206	16.80822867
PAIP1	17.87530739	18.15497301	17.78725231	19.44177244	19.5971516	19.51847167	19.76444766	20.21362833	20.15078495
PAIP2	14.5190633	14.36479465	14.85359449	13.72574639	11.8621658	12.81864788	12.17600878	12.52747751	12.2525402
PAK1	16.61248104	16.36272366	16.13620992	15.57249928	15.73023724	15.69405159	11.78434015	17.48119487	18.0232481
PAK2	16.99968143	17.25490348	17.07388202	17.64940164	18.03306473	17.78125894	15.77190227	17.16458289	16.86954537
PAK4	15.93614273	16.29197135	15.59646466	18.37277055	17.59664775	18.40778505	12.62731212	12.64482333	12.44652859
PALLD	14.62290099	12.18098881	13.72281119	12.55470419	15.4940756	15.82446854	19.82737676	18.47124392	12.14650557
PALM	15.1278006	15.47777318	15.4220918	12.33884175	16.02228342	12.14051308	12.24556197	12.6761118	12.71414965
PALM2	15.89327761	15.73736933	15.65336985	12.31032015	11.94766544	12.34869571	12.13166942	12.0649046	12.36039708
PAM16	15.17758493	16.35231596	15.51479909	14.65848336	12.16067088	14.63292563	11.89705352	12.81115199	12.77958263

PANK2	14.82817847	15.24882877	15.27758762	12.10495659	13.76448236	13.6736194	12.80060345	12.89502295	13.61082733
PANK4	16.26553548	16.2130593	16.5763152	12.97590147	12.38263145	11.58825254	12.03872972	12.61210232	12.94236472
PAPOLA	16.60956548	15.80380485	16.65897557	13.61372492	14.34884921	13.48902628	13.46666069	11.90649248	12.14235722
PAPOLG	14.50734705	14.86404197	12.48235615	15.29663735	15.44806537	15.76643268	12.17853619	19.74643594	11.59728936
PAPSS1	15.68800107	15.61210151	15.43691694	17.30742296	16.68344753	17.53795941	13.03925038	14.25258487	13.76561638
PAPSS2	13.76911073	13.34807952	15.0857361	12.19307914	11.40059598	12.96098962	13.43740333	12.2996137	12.35649454
PARD3	14.19016149	12.78559855	14.72520657	11.59099157	11.85883485	12.87198494	11.80815511	13.08256715	12.22054321
PARK7	20.28400744	20.67748796	20.6806349	20.80631632	20.60331683	20.23550964	18.20446416	19.0556026	18.33174926
PARN	15.92999185	14.89375814	15.77335622	13.45674785	12.29540886	11.9804083	11.56387665	12.07633178	13.11845825
PARP1	18.52450992	18.67910107	18.66405822	18.49329568	18.2700363	18.18309119	18.52091022	18.39233079	18.47756169
PARVA	12.56878561	12.42196542	13.43770748	11.98354129	12.71971011	11.42138956	20.05504449	20.3005445	20.5290791
PATL1	15.96556224	16.00023753	16.20861087	15.14102739	15.23466875	15.71301638	11.4480225	13.17320062	12.54055798
PAWR	15.06744623	15.43058097	15.23083512	15.97918673	13.27141096	16.19647667	11.77359451	12.75461326	11.73947707
PAX5	14.45932168	12.11242477	14.87876295	13.35385575	12.65503067	12.16851107	13.28304173	12.19423786	12.31311542
PAX9	14.43272449	14.99375574	14.56465436	15.66527365	12.65781411	12.74043394	12.34933149	12.91289309	12.35140265
PAXIP1	14.52738498	14.09407205	14.0956178	15.80672512	12.38045219	15.48996238	13.4822256	14.31407174	13.4061662
PAXX	14.88942084	14.77836045	14.23046464	18.04525767	17.98505023	17.92268782	12.85818098	11.50093049	13.26337417
PBDC1	16.22507298	16.19866552	16.10959777	13.42195019	12.72848619	12.85736653	12.27877255	12.8790731	12.71777419
PBRM1	14.82427756	14.36981845	14.98008912	11.86432655	13.11750271	12.52748169	11.93250342	11.39898468	12.71349077
PBXIP1	14.22717989	13.97413892	14.2324582	18.33740153	18.29187619	18.60237989	12.40036067	11.90401658	12.35913443
PC	17.06329337	17.05260358	16.94752511	17.86462738	17.7515688	17.84125149	15.1196755	16.47668452	14.99136569
PCBD1	19.49003105	19.53506417	19.32469664	18.06399987	18.03509261	17.99575896	17.64283116	17.90108361	17.79051947
PCBP1	18.64234197	18.76984357	18.79453903	18.40374669	18.50779881	18.65481172	16.69208877	16.54504696	16.81492017
PCBP2	18.58569544	18.57185365	18.87802753	18.71399429	18.74669813	18.82235038	17.08576225	17.68799432	12.33057591
PCBP3	15.27674629	15.30612524	15.08460735	15.69474973	15.84325873	15.73557485	12.72380521	12.81589295	13.00003586
PCCA	14.99038989	15.2506704	14.91928107	16.13180956	15.78565926	16.10973679	12.01698566	11.8954244	16.36303472
PCCB	16.06816878	16.02854517	15.85896126	17.08857902	17.40993888	17.17802079	15.29888431	12.7689307	15.86228545
PCDH11Y	16.06165565	16.77164831	15.78756337	13.29877815	11.96125666	13.06745048	12.37937139	13.09972724	13.53005465
PCDH8	12.64445442	15.87568574	15.43449619	11.73750538	11.23366042	12.04531873	12.62352204	12.97048816	17.89605671
PCDHB12	13.06317869	12.23211434	12.84781361	12.67218193	13.32395445	13.24688601	11.57915425	13.50745394	12.49393815
PCDHB8	11.30009135	11.45819352	11.59772042	11.68914249	15.67752233	15.1862138	12.75167182	12.97374247	12.84837649
PCIF1	15.75039879	15.2451073	15.21543692	11.9732596	11.62030676	13.70760131	17.13859059	17.54367662	12.0374971
PCK2	17.14451265	17.22262312	17.25693908	16.66169	16.20367994	16.56948412	16.18481977	16.03664207	16.10198293
PCM1	14.54552421	14.65635403	14.49493938	12.83529837	16.07450255	16.35015851	11.62070212	12.58752286	12.00556086
PCMT1	18.28875559	18.12465616	18.39871659	17.05823894	17.13625061	17.08952305	11.43493345	12.03374448	11.87708423
PCNA	19.18660545	19.33282059	19.4284941	18.1412053	18.27676286	18.22255721	16.05485006	16.7992302	17.81856414
PCNP	17.92244769	18.08562876	17.71831257	19.95523176	20.98170967	19.82408293	12.30092857	18.41955246	14.08550775
PCNT	13.675495	11.74055675	13.68334263	14.34190951	14.98501856	14.9858918	11.73132799	16.15391308	12.06479527
PCP4	19.27108911	19.50244319	19.28171181	15.17043942	15.86850346	15.15217364	18.28136644	18.21515107	12.53718275
PCSK1N	14.35200983	14.6169148	14.4176409	13.99727041	13.3959669	13.59992233	13.11614794	12.17317311	11.41786773
PCYOX1	16.04920015	16.04614266	16.22776804	15.93256965	16.27584353	16.13833693	15.89929187	13.84182412	12.24726337
PCYT1A	12.30484683	13.22592385	12.19416164	18.0326536	18.31444387	18.30004631	12.66622907	11.88880038	12.77885754
PDAP1	15.98376239	15.53753248	15.96485866	18.11528757	18.79249967	18.50369762	17.80389313	16.78204885	12.15980279
PDCD10	17.72710297	17.67771245	16.92921475	12.8545364	13.05715538	12.53247015	13.03507817	13.12404696	13.16793853
PDCD11	16.37829548	16.04945904	16.29863441	13.08795201	13.75987906	13.63918351	12.49731787	12.41116009	11.533879
PDCD2L	14.39030259	14.02695066	14.80369132	12.46029832	11.6048091	12.12259812	11.95555445	11.27949901	11.89979014
PDCD4	16.43183413	16.48837664	16.32901153	16.33750803	16.1708069	16.65700437	14.03808686	17.11688445	17.27960253
PDCD5	17.87068805	17.99431507	18.09917132	18.29140081	18.61293564	18.72704695	17.8930936	18.66423771	18.41696199
PDCD6	16.85974704	16.91737764	16.73609506	14.22296667	12.56985771	15.30266806	12.53799147	14.49666422	10.88861231
PDCD6IP	16.55208593	16.46030586	16.52151992	16.21543854	15.93412687	16.30403446	15.08740153	14.86138725	14.92851621
PDE12	15.03005148	14.92344306	15.03568611	15.68621866	15.83832241	15.44418585	12.11472217	11.60270209	13.23721579
PDHA1	16.34481194	16.65845466	16.7026079	16.35450712	16.14349231	16.75515946	14.10876828	15.74468274	15.13019598
PDHB	18.79462339	18.77335842	18.85637457	17.82849707	16.08955904	16.82841907	17.80793461	16.16514371	17.78173571
PDHX	15.50786483	15.10531745	15.25406792	12.34718893	11.67200181	12.07040684	12.38116617	11.81212194	12.68455059
PDIA3	20.01027431	20.10570084	20.03855716	19.97755789	20.05357337	20.20680061	18.89078813	18.81220084	19.02137383
PDIA4	17.81422531	17.9160122	17.81328289	18.75901721	18.58716183	18.74527366	19.55254193	16.15378869	16.17618328
PDIA6	19.52014891	19.50466617	19.44781367	18.31082999	17.96834467	18.3850909	17.12442326	15.26122404	17.05756246
PDK1	15.50310837	16.13109965	15.18189148	14.05787768	11.68425247	14.31837833	12.23103042	15.47524509	13.00326965
PDK3	16.81879797	16.70019247	16.65821032	15.56116295	15.58686535	15.53148107	12.62039177	12.04183179	15.35999482
PDLIM1	17.23870468	17.07870457	17.20145273	19.27156617	19.4615501	19.42147115	21.90417071	22.08860692	22.03929069
PDLIM3	14.01921454	13.82351196	13.6573735	14.81986694	15.16265447	15.38932841	22.90503245	22.68227428	22.63433339
PDLIM5	13.85859477	12.02944107	15.25172505	18.27623692	18.38077556	17.98533595	18.67545762	18.2143805	18.27608198
PDLIM7	15.39674583	15.7281174	15.3598383	15.99738089	15.88589474	16.17908283	20.86509039	21.21956604	21.43866157

PDP1	13.96129002	14.73640205	15.55459202	15.74726999	16.01106556	15.28505112	12.36496459	13.07442602	12.20855996
PDS5A	15.61035828	15.21234762	15.59121496	15.3985138	15.5743388	16.08705672	14.39911732	12.07899988	14.95030355
PDS5B	16.18225693	15.87122156	15.68637721	16.22773206	16.73498963	15.23617654	11.82624545	14.17016308	11.08671654
PDXDC1	16.36368598	16.6383838	16.70313043	16.75592673	17.01113001	16.01468546	17.65034349	17.76393276	17.43579569
PDXK	14.52637579	11.9521164	14.25040997	14.01946761	13.0855091	12.17800287	16.65886868	15.7225603	11.44195758
PDXP	15.55147068	16.03390547	15.45942976	11.7606627	13.75485221	16.3188262	12.72113719	13.04151109	12.40414547
PDZD7	15.80885123	12.59940302	12.16239019	12.26173466	11.64437154	13.74312413	13.09785328	11.43346825	12.76044499
PDZRN4	15.23825943	15.42324636	12.43672793	11.92727625	11.38433916	12.61645172	12.30361026	12.19033975	11.99498034
PEA15	15.85844942	17.04093709	15.95953276	15.52286481	11.90692528	15.7789138	12.68223776	12.92423125	11.92057065
PEBP1	19.32127972	19.44993792	19.5362006	20.46266705	20.48785416	20.62028107	19.80439284	19.86678264	17.65707219
PEF1	17.42420929	17.19506598	16.24638618	14.409907	14.10267236	13.2738261	11.2141816	12.91313592	16.7569433
PELI1	12.97981321	11.03723481	11.70044662	11.91844243	12.4439659	11.94985068	20.1814401	11.85890654	11.85319429
PELO	15.72891357	15.64940781	14.96452522	17.86326108	17.85369268	17.90551447	12.49013568	12.09407776	19.81704707
PELP1	15.74373513	15.43091483	14.48030109	16.90313234	16.877764	16.86336796	13.80287309	11.27046078	12.02517294
PEPD	17.75468894	17.62358731	17.63838436	18.87814669	18.80875503	18.84310125	18.97623464	18.39698385	18.87439844
PES1	14.8785833	15.47032374	15.3609535	15.12883331	14.68005711	15.30067774	13.11731814	13.87643628	12.81929664
PEX5	15.16351904	15.67209577	15.24344547	18.20378443	18.48830595	18.17417979	12.54294591	12.90122206	21.24462054
PFAS	16.12531987	15.67611424	15.95668388	12.3903353	16.08069861	15.56211079	12.959347	12.69102337	12.14961145
PFDN1	16.81514312	16.90877891	16.93455652	15.58564488	15.57839912	15.2930018	11.89522213	12.83197306	13.18353691
PFDN2	17.4272735	16.87403751	17.06152535	15.95613414	15.97265452	15.06154372	12.98537455	12.45063767	12.44060521
PFDN4	16.61909354	17.81938991	17.43172715	16.3189586	13.68712271	12.29010747	18.22605889	12.18601227	13.1046671
PFDN5	16.59405602	16.64770461	16.87571794	12.18126213	12.89748342	14.3039461	11.59143173	12.81880843	12.71140332
PFDN6	17.68836762	17.70284725	17.79375122	14.2064081	12.4817592	13.76268074	12.94136805	12.2946418	11.55991217
PFKFB1	12.13874968	12.45273176	13.24757399	13.14787136	18.51186449	12.07634247	12.75040538	13.29699837	12.60772379
PFKFB2	18.03141039	16.49972242	16.87542533	12.34403978	11.84050274	12.76111828	11.64755431	10.98850861	12.53464383
PFKL	17.27099316	17.29370568	17.43575965	17.21981574	17.50593268	17.28070855	18.24874007	18.0395671	17.15036417
PFKM	12.24380255	17.57831174	17.55892757	18.0654395	12.90820574	18.63171744	12.1734121	11.75599325	12.57494933
PFKP	16.67941334	16.61019066	16.49797608	15.13798136	14.68009314	14.87312022	15.16515095	12.36110764	13.85160637
PFN1	21.12084137	20.90923756	20.99978274	19.20170396	19.27502889	19.22566919	20.37822245	20.45412641	20.7649975
PFN2	19.4814008	19.46605721	19.42520412	18.99427393	19.30202657	19.11537419	17.68628227	17.07992626	17.90943605
PGAM1	19.16463554	19.31669693	19.30911363	17.72097981	18.06015269	17.86674856	20.01416569	19.9122062	20.10623377
PGAM5	17.54332147	17.83827823	17.51289242	17.55833308	17.60489002	17.50407606	16.68533924	16.92865302	15.45734746
PGBD1	13.22674949	12.64195572	12.81205518	16.2869865	12.85058729	16.52867107	17.50968809	12.56778046	18.887939
PGD	18.92500728	18.9513484	18.92727877	17.87739644	17.44703929	17.71110516	15.13891533	15.11518317	13.98906617
PGK1	20.612117	20.68137569	20.70173172	18.64730013	18.8259683	18.65746018	18.55324274	18.64546769	18.27389293
PGK2	16.77223224	17.20652554	16.76326981	12.00587081	12.15043095	14.85247007	12.21813412	12.86445654	11.7968001
PGLS	18.34076694	18.12859122	18.33389801	18.58086037	18.44184799	18.4109969	18.19935753	18.97047669	16.91338573
PGM1	16.86485654	17.09085789	17.23640488	16.37403637	16.24017177	16.63433558	15.35998982	12.17786258	12.94842493
PGM2	16.00955065	16.22050819	15.67754416	19.01140506	18.41299341	18.9859424	16.20742806	16.46071256	17.58339298
PGM2L1	15.39465562	15.18427966	15.50061492	15.14167724	16.76740368	16.83205305	12.24934951	12.1654599	11.54321154
PGM3	16.61096806	16.33013335	15.87280296	17.40825564	17.69903711	17.73703167	17.11896127	12.96137148	16.92231959
PGM5	12.10626617	12.13143658	12.7940562	11.6610346	11.23925047	12.80910005	12.66049859	20.94429797	11.64816381
PGP	16.47933786	16.28406383	16.09488069	13.95583639	14.06269559	13.89405661	13.34393579	13.0209307	12.64529134
PGRMC1	18.05865056	17.92748527	17.94288775	18.40021894	18.34739141	18.17805104	19.53330545	19.23967745	19.29785126
PGRMC2	18.07835571	17.50058508	17.89079491	17.62843243	17.54833599	17.90269953	12.41000929	12.43364124	17.33396747
PHACTR4	15.5543574	15.38321221	15.47979487	16.87347169	16.83634683	16.83666196	17.3008551	11.90654912	12.37536531
PHAX	14.41054518	11.94673179	14.13091993	12.35123895	12.6819387	11.96338691	12.77126123	12.20861607	13.12298684
PHB	18.97641356	18.75867538	19.01714687	18.72521033	18.43171352	18.12058701	19.02804071	17.58119409	15.29788215
PHB2	17.7468626	17.73743261	17.74386492	18.70817726	18.72543907	18.62912402	18.59645772	18.52787652	18.55168509
PHC1	15.57594145	15.53279535	16.06725875	12.57077021	13.75287015	12.59836303	12.42616623	11.79068764	12.29862012
PHC2	15.40102386	15.37671634	12.32364753	11.54636927	13.06773818	12.68953734	12.66025433	12.48178075	11.91772514
PHC3	14.8524673	14.82909185	14.54445008	15.2281154	15.59758769	15.20529032	12.78814363	12.34703032	12.2372576
PHF10	12.37803408	15.09303336	14.96743689	12.45932681	12.24862324	12.55696592	11.76826709	12.427579	12.36637743
PHF2	16.1450203	16.6332036	16.72631539	16.43140275	16.1914023	15.77519697	12.53393156	13.38121139	12.76908886
PHF23	14.92165871	14.99295106	14.85240556	14.38956078	12.88563449	11.96760317	11.74978325	12.26113814	12.65010615
PHF3	14.36956091	14.6642718	13.02503844	13.2522295	13.03003737	12.17691676	10.98895413	13.03811519	12.09368493
PHF5A	17.0259291	16.99134542	16.87029223	18.20725432	18.21968964	18.09576632	12.33760646	13.15102693	18.04409685
PHF6	17.10064804	17.04657439	16.98128484	19.69816816	19.73787973	19.85851079	20.57448897	11.0970191	12.7742366
PHF8	15.2560173	15.40536535	15.06815287	12.55673002	12.54058737	14.08153593	13.44504777	11.87200911	11.94746854
PHGDH	17.66629685	17.94998424	17.74062992	18.06376638	18.28963979	18.99041133	16.64274812	17.2888293	17.27588998
PHIP	15.45637067	15.59461849	15.19130662	14.32428497	12.08450199	14.15929843	12.65089031	13.93213602	12.8452965
PHLDB1	15.0173331	14.90557786	15.091162	11.13525215	11.10352003	13.03307724	15.57687077	13.48996039	16.58997297
PHPT1	20.34768759	20.63177262	19.10067279	23.31353735	23.35140088	23.23547368	20.3838661	20.39354599	20.59209248

PIAS4	13.91086242	14.20900314	13.89596587	12.50781594	11.92483559	12.56515353	11.98229188	12.88073463	13.17710871
PICALM	16.16884419	15.93238753	16.0783911	15.41095	12.55056207	13.01633409	19.13339047	12.55820371	12.39575384
PIEZO2	16.22955809	16.65152598	16.32718423	12.17074585	12.91232055	11.90322228	12.73620119	12.97939261	12.38809141
PIGK	15.71933553	15.72840933	15.89212095	12.94304599	12.55069957	10.82169112	11.50154766	12.8909127	12.47859388
PIGO	15.22452668	15.95993441	14.83913136	12.43847588	11.62228285	11.39646007	11.74302877	11.95999563	12.02832018
PIGR	12.68489117	13.16598349	12.16509429	18.74289029	18.39880968	19.01574274	13.19493754	12.04691832	13.71638554
PIGS	16.48129	16.06629856	16.05119519	12.27443752	12.71315979	13.68446951	11.62566707	11.56539301	13.1981972
PIGT	16.8244849	16.86327788	16.5814126	12.67806865	12.00522345	12.19719988	11.73027167	11.58852718	12.49385348
PIK3R2	12.795882	10.53792298	11.58975171	13.02124699	12.47711158	11.62430381	11.77064059	12.42281615	12.62667494
PIKFYVE	13.34127535	12.75478961	13.3270286	13.2527102	12.63599521	13.93919201	12.28355382	12.08979016	12.19647098
PIMREG	12.84794993	14.7607008	14.89361391	10.96094971	12.00556379	12.11774882	12.60465555	13.14776028	12.85814555
PIN1	19.50987824	19.44042303	19.65544589	19.75115779	19.86649011	19.74331313	19.65793831	20.03926226	19.70432449
PIN4	17.00388572	17.01561722	16.94168382	16.38613686	16.54637208	16.15143429	12.82999605	11.52406816	13.79374607
PIP4K2A	14.13080838	12.56720256	14.28621053	12.03750478	13.13207474	13.32893984	12.01147197	11.97588388	12.21966006
PIP4K2B	13.26564132	14.12933676	12.56578908	15.14599021	15.22394694	12.73534087	13.19757284	12.38168279	12.54182134
PIP4K2C	15.68470244	15.78589881	15.54230676	12.51918949	13.60184716	11.99653148	13.45707191	12.17111666	11.76735443
PIP4P1	17.75095151	17.6027336	17.61799882	15.39402711	14.67419769	11.97892202	12.0733882	12.45039461	13.30692177
PIR	15.42668597	15.71679644	16.2822079	16.44665636	17.30891977	16.97049256	12.96226214	12.23773381	11.01365611
PITHD1	16.54739302	16.2298526	16.54868715	16.03709734	16.3619571	15.46857802	12.72194177	16.68470524	12.97574288
PITPNA	15.79770665	16.24473887	16.2975249	13.18699502	12.19282159	11.16252234	11.93409604	12.54718947	12.79825612
PITPNB	15.8524371	15.15931005	15.15578987	16.24597189	15.08411972	15.5919664	12.3460275	13.17106844	18.14274237
PITRM1	16.50850986	16.41840088	16.30164691	15.9202636	16.05816722	15.45248184	14.07771508	14.22027143	12.38181053
PKM	20.93157684	20.78563738	21.07251335	19.13218543	19.36650475	19.22995153	20.01745122	19.26653885	19.94360016
PKN1	16.19967126	15.64984454	15.50894872	13.52924025	12.45609008	13.21985809	15.68612038	15.44700526	15.70730109
PKN2	14.67391685	14.846945	14.83652347	14.79300798	13.02161605	13.56747721	12.03909587	13.21314399	12.74145634
PKP2	16.05305008	15.58056826	15.65204939	18.84347741	18.97961327	18.88184081	12.80330782	11.88262202	12.41276849
PKP3	15.86652758	16.16890745	15.93453779	16.18004911	15.4493384	16.5107135	15.8641998	14.85386613	15.19279517
PKP4	15.06393899	15.23531455	14.78280536	18.75563386	18.8239518	18.59290729	15.60494836	18.70497821	16.76698605
PLAA	16.73708054	16.60576464	16.14236526	15.99552278	15.7374115	15.52706832	13.18443432	15.18058773	12.33145982
PLBD2	16.05847385	15.30300897	14.8663407	12.68165187	12.53878673	12.17330194	12.27264935	11.07570375	12.30291627
PLCB3	15.72896292	15.91133376	15.6837863	14.67029103	14.76354474	14.85904223	11.88069466	11.02825034	12.86318733
PLCB4	14.78533681	14.62899179	14.66797952	12.12902966	13.39148047	11.24335091	12.56712187	12.34214584	12.25215267
PLCE1	15.93810955	16.44595306	14.67656734	18.06068969	17.79445058	17.58363022	20.76889079	21.86735928	21.61542641
PLCG1	15.61041365	15.47651697	15.37401466	13.40134498	12.59411711	15.92681331	12.33820191	11.84144501	11.53969737
PLD3	17.65188248	17.62988841	17.76008408	15.34742557	15.28601425	15.47629784	11.95686262	11.72610338	11.64935621
PLEC	16.4837921	16.47877662	16.55477569	18.45127902	18.53527638	18.49242483	17.38503411	18.21243616	17.10660776
PLEKHA1	15.11255932	15.30188154	15.21041406	12.14789661	11.97380744	13.76936109	11.9396083	12.8743879	13.03076409
PLEKHA5	15.50281081	16.48046061	16.25961171	16.19143296	16.32933686	15.89143295	16.53107503	16.39779196	12.7597833
PLEKHM3	13.05284275	13.14226661	18.20770251	18.71158508	13.33551624	18.6108928	12.23989759	12.0506676	12.8927397
PLG	16.1442252	16.44737244	16.11788161	19.19052496	19.58755156	19.43866335	11.94157846	12.45369946	12.01882404
PLGRKT	17.9265905	17.85582754	18.56472944	17.87615184	17.61390052	16.5391098	12.74017116	12.18837932	13.68178931
PLIN3	15.79010428	15.51484193	15.73549452	16.3986361	16.72753563	16.51073953	14.62344003	15.06279928	16.22321566
PLOD1	16.36725274	16.1901731	16.35515044	15.38668398	16.7965413	16.66651877	12.27057449	11.52270723	16.8175572
PLOD2	15.9403637	15.88068639	15.91671897	11.02595959	11.87002018	12.62429272	13.90324155	12.30914545	11.85243685
PLOD3	15.9660628	15.94089592	15.89108495	16.81700853	16.81956396	17.25460786	11.03846339	13.47981993	12.60201979
PLP2	20.6603959	20.51335685	20.33183541	21.77660283	21.8584517	21.94929191	20.71918508	12.68179564	19.63924496
PLPBP	17.14850495	16.94544216	16.74778502	15.32807599	15.98318643	15.49035669	12.39559745	11.92930474	12.32918769
PLRG1	17.09384803	16.89441645	16.85121875	17.1853452	16.1581741	16.18209088	16.69780587	12.29244056	16.95872139
PLS1	15.82073384	16.13023919	15.79590853	11.71803011	12.17998424	12.87634319	16.61918395	11.37319289	12.35146334
PLXNB2	15.22479111	15.26672975	15.12130482	16.44203336	15.22812131	13.47339222	11.96597078	12.23819751	12.28555388
PM20D2	15.21170604	14.28118694	13.9185748	12.11726475	11.78720914	12.43853993	12.55428164	12.05941866	12.08977453
PMF1	16.44848054	16.4491447	16.15236857	17.21060698	16.8951777	17.19327137	17.3275365	12.60876065	17.69946586
PML	15.95249615	14.49469007	11.80755095	18.2570869	18.73155409	18.97907832	17.23968439	17.90733026	21.34773603
PMPCA	16.91375481	16.69518907	16.52925404	16.85889018	16.84057368	16.95241841	11.90361245	11.18596937	12.96977529
PMPCB	16.4135034	16.82971554	16.32319761	17.30007886	17.32825207	17.44275232	11.98676777	12.52926101	16.56268495
PMS1	12.75085736	13.09039188	12.54500271	12.31038716	12.89514265	11.39928119	12.20973739	12.26139106	14.07347963
PMVK	16.01903518	16.36668219	16.24177228	13.20852542	13.74670402	12.23173733	11.29204464	13.00623713	12.40643496
PNKP	15.56539707	15.54807189	15.57023361	16.83593792	16.89904156	17.08516451	12.28765201	15.98863164	16.27354554
PNN	16.56813786	16.59094126	16.74335487	15.56780475	16.98272442	15.19287564	11.70091096	15.35015477	14.79522896
PNP	16.37776906	16.38108025	16.74327887	14.21420235	12.76815446	13.17531497	17.93814286	16.7798712	16.49798393
PNPLA6	14.86425208	14.25984621	15.02276782	15.5910859	16.45781997	16.02134333	13.01692826	12.08707177	12.92757862
PNPO	17.11858879	12.54625168	16.8041498	15.10670859	13.27742039	13.13300403	18.80026076	12.89860058	12.4717964
PNPT1	16.19522111	15.99084259	16.1744807	14.88741914	15.63446648	15.23054491	16.08369606	15.19397118	14.9881914

POFUT1	16.34306043	16.35199629	15.12355558	12.59031307	14.65232532	12.7069187	12.21048106	11.47959344	11.85788513
POGLUT1	15.58376285	16.04511428	15.80757819	12.99705575	15.49881485	12.90134569	11.79796067	13.09808267	11.90573913
POGZ	15.14109696	16.51175365	14.31131807	11.83239488	12.55600958	11.62315549	11.79816806	12.93244034	16.47674891
POLA1	15.3025951	15.57485269	15.22618337	12.36920628	12.93071935	12.23827107	14.26777168	12.84965349	12.61891955
POLA2	14.7012298	14.20374627	14.38557613	12.35582219	12.83233578	12.91906142	11.86557135	12.27965533	11.55820829
POLB	15.94229322	16.41801245	15.87798416	17.15921206	16.87792258	17.17864263	12.7374629	13.16773323	12.41666744
POLD1	15.85185587	15.69435435	15.69550479	13.0923269	13.55920904	12.81542678	13.40313789	12.76641377	12.992431
POLD2	16.60673254	16.72204053	16.67712502	11.50538572	14.36992672	14.79269206	12.29194219	13.26785802	12.27477918
POLD3	13.10787362	15.24615254	13.74409554	12.18960556	11.90781932	12.31009871	13.32776553	12.82310287	12.74401673
POLDIP2	15.70439369	15.99783634	15.540384	14.37573833	12.08347183	13.35580506	12.73202681	13.12522719	12.9757148
POLDIP3	15.9221144	15.87485637	15.82969922	17.04207195	17.42396128	16.40957946	12.4347301	16.81805798	12.74721139
POLE3	18.18446082	18.07504503	17.86883907	17.26164045	12.06138878	11.8794984	17.51570246	12.97863953	12.12491921
POLR1A	13.88290023	14.91224237	13.64747434	12.86232105	14.08405748	12.12252239	12.26209447	11.67715339	12.48843539
POLR1B	13.62899402	13.34332244	13.3743042	12.67711455	12.77869657	12.90427654	12.44344012	12.61540183	11.89121272
POLR1C	16.02003292	16.2303001	16.35264233	14.76579037	13.55297553	14.92577433	12.20560701	15.19810554	13.06278723
POLR1D	16.10655183	16.29297415	16.2260415	16.98463674	16.82531154	17.36549662	17.58807573	17.20028762	17.65486236
POLR1G	17.90227673	17.83005563	17.49397627	17.70261132	17.23755366	17.58899888	19.64344438	18.97422666	18.96045642
POLR2A	15.68021086	15.50879128	15.40705699	15.28796002	16.26222845	16.15982791	13.17670092	14.58749387	14.04404531
POLR2B	16.00192095	15.5966157	15.67448124	16.31328804	16.15973379	16.48935399	11.93605395	12.66676844	11.35103824
POLR2C	13.20357669	14.52504155	11.83535058	13.47219327	11.56744928	12.33948752	12.82854402	13.11037418	12.68809879
POLR2D	15.04334969	13.4513717	14.70110393	12.26409312	12.81804664	12.23822252	13.2444384	12.49959688	13.62849676
POLR2E	16.69669894	17.18182359	16.70224428	17.69883146	18.15980762	16.39583573	13.05983864	17.36697753	12.84810945
POLR2F	15.43530087	15.82278305	15.07547131	12.11792117	16.15353361	16.29060418	11.89559952	12.53895759	12.90511502
POLR2H	15.9328192	16.12984023	15.44034453	11.18793325	12.57087764	14.80263403	12.72789492	11.60959134	12.26320229
POLR2M	16.0652127	15.84763045	12.15151126	17.49697923	16.86555526	15.84381902	19.11894716	18.6131023	19.07752811
POLR3C	15.56000261	15.15587161	15.05079254	12.00949462	12.19817556	12.4171577	12.49261384	11.50255034	11.85860061
POLR3D	14.02066656	13.550074	13.45798079	13.2584128	11.86182677	15.42806131	12.84211845	12.54339843	12.21650199
POLR3F	15.75515746	15.46482995	15.65977902	14.98124154	15.15291063	14.93125386	12.11361173	12.64014289	11.08316647
POLR3H	12.66471414	15.8384191	11.88434216	11.70106583	11.67513018	11.71402713	13.26450394	12.60670819	12.65389647
POLRMT	13.7110931	12.0144546	13.83352586	13.62073569	12.45892565	14.65676386	12.778543	12.343513	11.95916338
POM121C	14.22603484	13.40853518	11.77843733	11.82003419	12.42629209	11.78922058	12.50814427	11.80243444	13.05671166
POMK	15.42798351	15.35693339	15.48887977	11.65330004	12.73873086	11.78431321	11.56620365	12.77942458	12.67323793
PON2	13.4212805	16.78758272	17.31479883	12.15929571	11.61190921	19.17542954	12.94754145	12.84442164	12.03923479
POP1	17.61734848	18.0146773	18.09143688	12.99623893	12.45305501	12.35227454	17.0149397	12.52588117	12.58827077
POP7	14.82389976	16.31141238	15.17447205	12.36808529	12.81135272	12.23426588	12.61256761	12.11619447	11.48256626
POR	15.90483984	16.0870542	15.80498476	15.72783821	15.86891176	15.68009328	15.04914752	12.03158639	14.78672253
POSTN	14.72297581	14.59331272	14.33819071	12.986063	12.61037184	13.08606656	13.31534696	11.85707764	12.69807055
POTEE	23.20141551	23.17831536	23.17344081	22.24597189	21.93641186	21.81901288	25.09277043	25.2279495	25.37792323
POTEF	12.33345803	13.53479963	14.81358887	12.40414742	12.49932718	11.85607812	13.63355567	12.02798513	13.24898037
POTEJ	22.62526585	22.91472248	22.78472443	23.13896781	23.24478279	23.2493427	24.00419525	23.19065685	24.3597968
POU2F1	16.78826558	16.87121284	16.0483466	16.94310062	17.069586	16.75679469	17.71246792	20.04561589	20.50749143
POU2F2	17.24159927	16.53035583	12.39972317	16.35964759	15.85377482	14.56205738	12.49535749	12.30325297	12.093039
POU2F3	16.34488624	15.98631433	16.43689222	11.05130726	11.66742974	11.86373642	12.00481655	12.51540523	10.98799425
PPA1	18.64980425	19.01374499	18.6692111	17.43869003	16.86746595	17.18832316	15.94507296	17.65347491	11.72898222
PPA2	15.54482979	15.7475708	15.58588087	16.50975882	15.93376854	16.35681885	14.80549549	12.42817504	13.37118297
PPAN	15.16178971	14.71131786	14.57560143	13.42659882	13.14898864	13.06976886	12.84870599	13.14394813	12.51381264
PPAN-P2R	15.8730763	16.10226091	16.21854427	18.55988122	12.38334677	12.58396185	12.12855885	12.38172759	11.78974491
PPAT	16.3595504	16.02171594	16.19314083	12.84366013	13.17698013	13.5003495	12.27115046	11.55580739	12.13328212
PPDPF	15.59892441	15.00004108	15.09497818	16.63589254	16.23110366	15.72822891	18.3081753	10.8394408	11.95155606
PPFIA1	15.4170191	15.47381993	15.69587078	14.37507449	13.54138635	14.95745602	12.12208987	12.44055713	12.21683081
PPFIA3	14.67336534	14.28844819	14.28985612	11.16713453	13.09130286	12.44335504	12.58654431	11.37153839	12.44558987
PPHLN1	14.91070774	15.0494201	14.89020517	12.63950067	12.20707509	12.9613888	12.28163325	11.98039098	12.37498034
PPIB	17.01560054	17.15958355	17.97773436	18.12723589	16.77206547	16.6182648	16.73503922	16.56566764	16.69880978
PPID	15.79152449	15.10132203	14.86891924	13.99891084	14.28684375	14.24993226	12.25008671	11.59782127	13.36531896
PPIE	15.72877465	15.65634124	15.60729093	16.42439612	16.30515108	17.08299677	12.36174196	13.05192936	12.59735587
PPIF	15.75607252	14.73356903	14.29296677	12.58318363	12.44403348	13.30532936	12.35120687	12.37320133	13.27235556
PPIG	14.63543199	15.04743259	14.24769397	15.99955705	12.65281442	15.21769036	11.95897822	11.84752541	11.92267578
PPIH	15.91557868	15.51382147	15.35561302	12.3183017	14.22036466	15.47199309	12.80444969	16.33805114	12.05109274
PPIL1	18.06243913	18.2505963	18.33240534	19.19598434	19.3017205	19.14520874	18.67859628	18.69298588	12.54275905
PPIL3	17.36266503	17.35763338	16.74075238	14.37092262	14.6299457	15.28346831	12.3352632	12.49390964	12.09192066
PPIL4	15.63300793	15.85572371	15.21253516	16.03703183	15.99325176	16.22265448	12.91346691	13.34831187	11.50594472
PPL	14.07787362	13.73230813	14.26266127	12.16711058	14.85643746	13.15739743	17.49318141	12.74249817	12.71460117
PPM1A	16.84673679	16.95368404	16.99937809	17.78274505	15.87449755	17.6071677	13.36209531	12.83338233	13.13543579

PPM1B	16.2998736	16.19352864	16.3091137	13.14941238	15.34136097	14.02560756	13.67088527	12.16898882	16.23607286
PPM1F	14.9640257	14.95527225	13.09079846	16.70109411	16.98146416	17.0128013	19.44689712	17.49080866	18.58842768
PPM1G	17.41883984	17.47890307	17.24160221	17.23970543	16.7173761	17.2318474	13.52966571	13.51543141	13.76902053
PPM1K	14.19318524	15.18559361	12.49226055	15.75202932	11.40116226	11.80100838	11.98845167	12.70996911	12.16764272
PPME1	17.05379739	16.98132892	17.2915375	16.31062538	17.2516402	16.91506412	12.54532761	13.23560284	15.38712609
PPP1CA	15.48725122	16.076522	16.17729075	14.14522123	13.72472224	14.06154371	16.00855123	16.95999038	17.00146207
PPP1CB	17.61302185	17.67430877	17.50506419	14.98668911	18.19530188	18.52582136	18.8083989	18.49080348	19.67650762
PPP1CC	15.79749752	15.77912389	16.39864023	13.20433293	14.78636331	12.51497901	12.10329326	11.92859248	13.05015637
PPP1R10	15.07748323	15.19521192	15.82701837	14.90476553	15.84454529	15.77907336	15.72975704	12.40872952	15.66590387
PPP1R11	16.30740966	16.21601155	11.07029612	18.4119212	18.43963758	17.12824929	11.19705676	12.17213806	12.33632822
PPP1R12A	16.63501363	16.97284013	16.69027606	17.1960806	17.51937707	17.76707958	19.69950233	18.73328416	18.93804427
PPP1R12C	14.98177429	12.09980175	14.60716704	16.83887948	16.95728684	17.7358708	18.18578554	12.19002478	18.16353702
PPP1R13L	15.68294436	16.27213437	15.63870567	15.5270843	15.60876567	15.77878523	15.60701938	18.15487615	11.96462571
PPP1R14B	19.08153696	19.16546563	18.94117553	19.66922903	19.59823885	19.3068906	20.26065196	19.69255409	19.39852178
PPP1R16A	14.36579976	14.44809637	14.43975932	11.31018101	11.74902645	11.73465621	12.02569183	13.38641455	12.23313199
PPP1R2	12.93858576	17.31194003	16.58362893	17.85704187	17.75306389	12.20737166	12.21031675	12.75931498	11.75170681
PPP1R21	14.9492287	15.45395328	15.63256632	13.30996476	13.35741505	12.57180475	11.89653852	11.50307656	12.42365298
PPP1R2B	16.14134418	16.00751745	16.48490257	19.01955568	19.20322154	17.50281872	12.06357362	13.07221425	12.3985361
PPP1R3D	15.28666919	15.54810462	14.33766555	14.60090309	12.13005667	13.19564978	11.74713569	12.16862158	12.15795617
PPP1R3E	12.75552741	11.75279288	11.47428001	13.15796438	11.41728855	11.7264467	12.21377966	12.77064704	12.48283044
PPP1R7	18.05522051	17.18482784	16.97497105	18.32646636	18.72876658	17.76821015	19.49395231	17.06146222	16.13152432
PPP1R8	16.37151509	16.69475929	16.39148996	15.7420994	15.38285799	16.2462598	16.22782637	16.95288681	12.21150523
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PPP2R1A	18.30592834	18.35966126	18.4021265	17.64239466	17.61173002	17.5575035	17.55664258	17.44004112	17.74839308
PPP2R2A	16.01055276	16.21748541	16.04406092	14.4502196	13.11582316	15.04914913	11.78514665	11.85612405	13.80097812
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PPP2R5A	14.14623029	14.95642882	14.43952901	17.2762044	16.94302975	17.14980639	12.00088732	12.24790735	11.87101176
PPP2R5B	14.68478536	14.3207516	14.8884345	11.74386984	11.4097576	11.475653	12.65464334	12.50144519	12.12819931
PPP2R5C	14.87812848	15.24188748	15.18978652	12.95839677	11.86286652	12.0806674	12.27261333	13.83511411	12.06007239
PPP2R5D	15.58362702	16.12277261	15.67892454	15.79314305	13.5338064	15.31192343	12.19149262	11.51859588	10.95594328
PPP2R5E	13.4026747	12.48671666	16.48773162	14.19940099	12.59127876	12.71037416	12.29281079	12.8517136	12.70245933
PPP3CA	15.33658347	14.68111598	15.80635071	12.85834577	15.85857678	15.03454756	18.47868459	18.41219551	18.4235413
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PPP4C	16.70509068	17.00750367	16.94511264	15.0119207	12.06635768	11.34193755	16.33034223	13.05926772	13.08563929
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PPP4R2	17.01624769	17.58440064	16.91403879	15.2094358	15.18385041	14.99162027	12.02067507	13.07771243	12.06605074
PPP4R3A	14.83429829	14.44269207	14.58475143	13.27005683	11.43852498	10.65862773	12.32044392	12.34055279	13.29754321
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PPP6C	15.8325602	15.7022271	16.0060557	15.21482987	14.69428981	14.49447825	16.43794206	12.35385726	12.41255913
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PPT1	17.99985477	18.06542455	18.07427247	18.03854707	18.2331279	18.1330446	17.93571505	18.41392718	18.5229672
PQBP1	18.5183937	18.70183021	18.45644057	17.71932939	17.43523132	16.84423085	17.43696143	17.90409377	18.16938532
PRADC1	12.59483847	12.57615134	12.04714033	12.47551064	11.56006549	12.12059305	12.58773692	11.82745227	12.53143208
PRAF2	17.71481328	17.82223888	17.63096196	17.84715179	18.21913238	17.85354933	18.42394284	18.00000351	17.93227525
PRCP	15.8286186	16.0819421	15.88976271	18.59594379	18.43052806	18.93750323	16.64345255	17.79615195	16.1556002
PRDX2	21.05899159	21.11461336	21.07993871	18.54684454	18.48653941	18.27425882	18.45302362	16.70725942	17.56209862
PRDX3	19.58070126	19.696483	19.57942847	19.06578946	19.00305138	19.1556214	16.08723422	18.35606508	16.67751672
PRDX4	17.03723754	17.40248125	16.75986888	18.54767458	18.58553348	18.68441015	17.36917873	17.67470775	17.38005833
PRDX5	18.5107799	18.26294157	18.47827489	17.43865018	17.72011961	17.81013682	12.25470972	15.2766706	16.5812565
PRDX6	17.74648433	17.38881929	17.75712956	17.43801481	17.15997864	17.3884324	17.16609583	17.82806049	17.52462035
PRELP	15.13058592	15.23940773	15.22410399	15.25294202	16.83470894	16.12872116	17.63181764	17.8416954	17.12156381
PREP	13.85091624	15.3545556	15.64282429	11.60333373	15.82977291	11.27635443	11.74899776	12.66865699	12.54053594
PRG4	14.42824018	14.36898236	14.64135439	16.57213908	15.96790061	16.38747095	12.27214761	13.65935916	12.50658112
PRIM2	14.11439174	14.27831981	14.64393043	12.35100045	12.58262462	11.62316543	11.70186699	11.91145319	16.03541243
PRKAA1	14.40246157	14.731744	14.60092909	16.64405536	16.41062153	16.37164236	16.02343232	17.39872536	13.14192515
PRKACA	16.52815402	16.74364088	16.35694745	15.94976531	16.41405471	16.35498326	13.89628641	12.93238914	17.34010714
PRKACB	16.32985316	16.54001996	16.68898468	13.37207813	11.62931429	12.02662836	12.8462132	12.37660767	12.05733822
PRKACG	12.62361683	16.48385213	17.03950923	18.6849846	19.27559146	19.24225161	12.61422925	11.67986816	12.08501596
PRKAR1A	18.01491424	17.86198131	18.1777474	16.83967104	16.23956688	16.90987441	13.56928486	12.44297679	14.4911524
PRKAR1B	17.58106869	17.72195196	17.50306213	15.80522945	16.42121695	16.25404318	16.23890553	16.04239174	11.77557033
PRKAR2A	16.09390916	16.03752128	15.83481709	17.58501582	18.71539889	18.82077754	19.0741877	18.83665541	18.86340397
PRKAR2B	15.52114189	15.27829876	15.49380297	16.31782164	12.44648956	16.73840694	12.31860092	11.99346517	12.13970589

PRKCA	14.76016701	16.28058157	16.57799672	15.31260539	15.19149722	15.38829957	17.81496797	12.49954201	17.55794832
PRKCB	12.41360597	13.76765333	14.40679931	11.94664327	10.86464417	11.70384123	12.46454518	12.91065967	12.47327297
PRKCSH	18.57872414	19.02096249	18.83853104	19.30709511	19.19899034	19.14482595	12.47610816	15.881872	13.74245373
PRKD2	13.12974557	13.95557706	14.91798597	16.58435671	15.84327712	16.92792473	12.51878974	11.84766007	16.23455088
PRKD3	15.43378116	12.64972293	14.86870543	15.55403492	15.19775246	15.11467326	11.78557729	13.06997962	12.10398238
PRKDC	17.87766221	18.13958269	18.09054147	17.34112733	17.16847827	17.29241742	15.98547638	15.98243853	16.42890142
PRKG2	14.31798994	14.55070694	14.9542375	17.18006533	13.12718636	12.5673574	12.02218914	14.832938	12.31168684
PRKRA	16.76014095	16.88737013	16.98312981	15.56245878	16.36638617	16.15540543	12.57654715	15.92727997	15.46499772
PRMT1	16.88411861	16.63023822	17.07182323	15.55584488	15.37573874	15.28368425	13.02786858	11.89869319	12.89242211
PRMT3	15.60479269	15.08708901	15.3779144	11.92259256	15.53928433	14.98300239	12.90827399	12.38611902	12.07028591
PRMT5	16.57976959	16.44290536	16.4850255	15.3904143	15.47603104	15.48629061	12.13506069	11.93790242	10.97786749
PRMT6	17.37687196	17.20683111	16.52303528	16.26903231	15.42655312	16.50744868	12.28230814	12.04200615	12.34745771
PROSER3	11.63066666	13.68056918	11.67296202	12.82451317	12.46736699	13.78567289	12.17050506	12.63310954	12.80569781
PROX1	16.80166659	16.57394602	16.78695533	12.48477663	12.26037801	12.25215199	13.75724914	11.88518695	11.70466512
PRPF19	17.83740465	17.66315204	17.74259455	18.04042007	17.81739299	17.95469958	19.01692321	18.96977953	19.0189582
PRPF3	16.35942302	16.92409197	16.60060024	17.08333395	16.86755208	17.25366869	12.20269439	12.46334436	12.88230773
PRPF31	16.45792853	16.38828118	16.26426057	16.60996946	16.90805381	16.58779705	11.83003851	12.51064012	12.78381966
PRPF38A	18.22392764	17.80648609	17.36128536	16.43205008	17.68636442	17.50687074	13.91411085	11.93465066	17.31506126
PRPF38B	16.17248152	14.36914306	13.97758498	14.5268719	16.36750806	16.07534592	12.96473212	11.71149909	11.04527503
PRPF4	15.68125323	15.52215677	15.90494566	13.71165433	15.10529986	15.28074361	12.25156043	12.55624919	15.72694098
PRPF40A	15.82719322	15.6366331	15.13400107	16.17545221	16.68085475	15.71582971	12.22396851	12.81989543	13.52626105
PRPF4B	15.24717854	15.05169166	14.52881471	12.29051975	14.05626399	13.77190766	12.54440392	11.67122187	13.38566332
PRPF6	15.79314157	15.81363855	15.79693893	15.86396231	16.24215617	16.16535409	13.71866574	11.82399082	12.6392844
PRPF8	16.62110412	16.43973643	16.71604445	17.66130159	17.36811737	17.50288699	19.05257051	19.21244915	18.52717442
PRPH	17.951956	18.14506425	18.39986056	21.16693499	21.28090872	21.06084354	19.48686722	18.53595513	19.55453335
PRPS1	15.93893145	15.81707573	15.4998903	12.11308611	12.47829089	11.80977838	12.46377429	12.49400652	11.8978537
PRPS2	17.76779065	17.52787244	17.57153598	13.98010803	14.19631356	14.24167512	13.60162698	11.83470477	14.75496097
PRPSAP1	18.0507456	18.26373567	17.83114513	16.16177436	16.02238087	14.5561524	12.65202661	12.70601597	11.72124117
PRPSAP2	17.02484061	17.18515103	17.02734238	14.99944674	13.9175829	13.7271734	14.44504302	12.35791863	12.71499824
PRR12	12.69024764	11.87425738	12.35587237	12.8852618	13.05448301	11.85398595	12.72282428	11.38772705	12.10646871
PRR16	12.38842142	12.05372459	17.23425533	12.46198777	15.67521035	12.69362542	11.85794934	17.33655494	12.56324442
PRR36	15.15515767	14.92544224	15.07588812	15.63622704	15.34839583	16.5328386	12.12280267	12.46767471	12.51575089
PRRC1	15.63084979	15.7113917	16.07890411	14.24806912	13.22227018	12.81019156	11.24631172	12.82064495	12.74806155
PRRC2A	16.41783177	16.75855506	16.76825224	15.7239572	16.21169276	15.8923744	16.92613937	15.49377387	15.22196538
PRRC2C	15.15363371	15.35723755	15.59500359	15.78305075	15.72409929	16.1393898	11.3600733	12.40257584	13.11481025
PRUNE1	14.42805106	14.70334544	13.99220352	11.81694884	12.52754055	12.23945966	10.76425687	12.06010113	11.57490359
PRUNE2	14.90413782	15.35154231	15.63249076	15.84718098	15.64225727	15.99300757	12.16638854	12.21949932	13.12264461
PRX	13.46433645	11.93273762	12.32565696	11.43905331	12.37091034	13.54418993	13.83151095	13.8272101	12.10571459
PRXL2A	15.89062817	15.14195162	15.45154234	12.85722839	12.88178341	11.98172632	12.35055635	11.74056606	12.2264232
PSAP	17.17433742	17.37723926	17.22434716	12.46408073	13.73504958	12.56729703	13.84252622	12.3513024	12.33272101
PSAT1	14.91593836	15.39405586	14.91084936	11.07933507	11.83738073	12.40867009	12.51916701	12.61506167	12.50126203
PSG6	14.26320509	12.23143757	13.04318963	11.94402101	11.7165883	12.42721854	12.20124825	12.51395249	13.09040513
PSIP1	17.94942794	17.599785	17.56143869	16.07314324	16.36319724	16.30721592	11.86725221	15.45705643	16.02116743
PSMA1	17.97315568	18.19138391	18.08094242	19.75820099	19.55830118	19.65706037	15.48346	12.38263103	14.49238935
PSMA2	16.96028727	16.85837997	16.70689324	15.78182651	15.96803071	15.57289569	16.52830928	12.03824798	17.45497313
PSMA3	17.19569661	17.2210431	17.34234829	16.4951443	16.19735382	16.47307669	12.34395059	12.22773167	12.07476785
PSMA4	17.89924062	18.45329453	18.72126827	20.41728433	20.48861825	20.83867848	18.85561994	18.15679199	20.44628853
PSMA5	17.69196795	17.52167042	17.61220455	16.58322687	16.87056634	16.91514296	12.15552233	15.04616522	12.56283736
PSMA6	16.90433569	17.09574065	16.73665096	16.33833807	15.96959041	16.25545446	14.38674762	15.9433909	15.23720408
PSMA7	17.89577177	17.87272858	17.63723066	16.15972263	15.70555146	16.62647023	12.90231457	15.79674134	16.35077815
PSMB1	16.20163399	16.70185964	16.57247898	16.60505163	16.25728456	16.76866374	17.47540401	17.96106635	11.93433048
PSMB2	16.87422698	17.53256464	17.16870107	14.64736291	13.66158576	14.81194662	17.63441605	12.11026214	12.77216847
PSMB3	16.88503418	16.75793103	17.5165322	14.64873673	14.77356796	12.10641032	15.4373085	12.690766	11.72111333
PSMB4	16.8195279	17.03563087	16.95856008	16.7613498	14.48859988	14.12024165	14.58278742	16.69539696	12.35485241
PSMB5	18.12899678	18.46770833	17.78465378	19.5058758	19.6496401	19.55067969	19.11857672	19.3787008	16.83157655
PSMB6	18.71743631	18.84437108	18.8550199	18.54390214	18.50404656	18.5344807	18.87687142	16.47248107	12.35225318
PSMB8	15.16070884	15.39736426	15.76223426	12.20859029	11.59841034	11.73665012	12.57601072	12.99572939	11.89706524
PSMC1	16.51109514	16.01557558	16.08848679	11.84989547	12.14413413	13.65992666	11.97719745	12.29330068	12.45917053
PSMC2	16.7978955	16.89814783	16.79017219	16.22995334	15.7369555	15.48006478	13.11732357	12.83892765	13.03678911
PSMC3	17.2258248	17.15316366	17.22332044	15.85627943	15.24428626	15.02166179	15.7116756	14.04559848	15.3945554
PSMC4	16.91790459	17.0760351	17.11269043	15.24488757	15.14424427	15.20883677	12.62712428	14.61053324	11.24892634
PSMC5	16.51681658	16.60087194	16.51912174	16.16756713	15.48577568	15.88323754	12.79164452	11.7071627	13.56057925
PSMC6	16.9136676	17.0410465	16.92647283	16.13879493	16.00955886	15.67437975	14.35978718	14.64094352	15.29889812

PSMD1	15.53159216	15.26594698	15.75919491	13.01005689	13.00982464	12.40850719	11.1221885	12.7622085	12.27345564
PSMD11	16.57372486	16.86709487	16.6447448	13.62229563	14.41959991	12.37228002	13.71724777	14.4267942	12.58302546
PSMD12	15.09184062	15.27588475	15.18485718	13.39987365	15.29935443	16.69109029	11.80524427	12.15216621	11.98236717
PSMD13	15.53008741	16.17257277	16.41369171	15.49225367	15.73363376	16.0501385	11.31538456	14.81597809	12.411634
PSMD14	16.29377403	16.78313411	16.82269066	15.54229673	15.40039269	14.1830454	12.53362814	11.97428636	12.78906731
PSMD2	17.25437592	17.28130992	17.44162145	17.73765567	17.31631367	17.45289666	13.2102826	17.1519784	15.39479765
PSMD3	16.10570519	16.10892055	16.27997513	14.16873584	14.82422453	15.15118686	11.93519122	12.63131005	12.83934785
PSMD4	16.82078529	16.61154229	15.93923985	14.82136534	14.23186232	13.87536072	12.25131836	17.5159908	12.20501681
PSMD5	16.03439136	16.8614928	16.81668645	15.04862363	15.38999319	15.11184841	12.45020754	15.26922541	12.92922867
PSMD6	16.39365925	16.14426146	16.25935947	16.87142099	16.86606514	16.40461568	17.82814653	16.40779614	16.99436597
PSMD7	15.65084389	15.3141419	15.6295062	11.9063137	12.45705319	12.84625452	12.51801959	12.33325368	16.27373785
PSMD8	16.51740081	16.03061803	16.31700759	14.643126	14.35077342	14.44136574	11.53945864	13.65600978	11.13297606
PSMD9	17.21526442	16.6085074	17.00602427	17.66932065	16.18274639	17.62426794	11.63864743	12.67926732	12.10263598
PSME1	17.22147541	17.20483939	17.07892548	17.45486438	14.86597163	15.16296192	10.92643522	13.80671102	11.63603004
PSME2	16.49005612	16.47500921	16.70441646	15.36802871	12.42426107	12.72180192	11.99990833	14.97284934	11.03820061
PSME3	17.28300651	16.65382196	16.96139631	14.55180151	13.20769904	12.26084602	12.37573748	13.2224903	14.82638376
PSME3IP1	16.0069848	16.30298447	16.17323754	14.1668049	15.75088955	15.18434521	12.42623398	13.09212007	11.74623529
PSME4	16.64075762	16.68300406	16.68570729	15.34826725	16.3599021	15.7831903	13.28611993	12.82170483	13.37172207
PSMF1	16.56064972	17.00821888	16.90027134	16.3253091	15.55277315	16.04482397	10.95898115	12.15990327	12.9485094
PSMG1	15.18154893	15.0117809	15.37011106	11.88696438	11.45172982	12.49332824	12.90530619	12.67634187	12.01326951
PSPC1	17.13843963	16.97758235	17.23948046	17.10719567	17.77799	16.84573987	15.28337283	14.94658126	15.42635001
PSPH	17.52304043	17.69959083	17.74841352	12.01936528	12.43547605	12.55495191	12.87981782	12.70159542	12.21499631
PTBP1	18.95076109	19.02097928	18.87395449	19.66561859	19.59407531	20.00553449	16.99209	18.69306061	18.06115959
PTBP2	17.3443459	17.02856904	17.24420799	12.87124677	12.39826938	11.55512211	12.1913611	12.24693913	11.91622734
PTBP3	14.88118027	15.0749988	14.78086745	15.12844908	13.12256158	12.78734771	12.22400522	11.56469713	12.20502153
PTCD1	15.20776907	12.2442626	15.39445049	15.61849363	15.22117617	15.39840553	12.32209237	12.78388751	11.99429157
PTCD3	15.41159772	15.45438081	15.33261115	13.2584729	12.78546787	12.62948066	12.35279707	11.45245537	11.80835995
PTER	14.67796238	15.90535912	14.97112631	13.25160735	12.57294221	11.98129827	12.77811003	11.92754255	11.1378586
PTGDS	13.57575093	12.55578966	11.39424803	17.78988626	18.45286355	18.24630827	13.39929077	11.42566042	13.08910219
PTGES2	15.23787802	15.73483792	14.8087684	12.23067763	14.33980651	12.42873018	12.11533041	12.17595268	12.9045446
PTGES3	16.87289435	16.21760095	16.32170141	17.58836796	16.01142562	16.76078172	13.01070051	11.18666872	12.62939179
PTGFRN	15.07342095	15.12562905	15.0342538	15.88532281	15.33030452	16.08525936	11.70538091	12.08937865	12.60425096
PTK2	15.53067398	15.19557171	15.00287458	14.52365153	13.71314036	14.80479229	11.97290404	11.78963025	11.37004227
PTK2B	15.89835718	12.45147824	16.16339291	15.30047969	13.02998018	15.77409954	11.99148304	11.98479717	12.36315713
PTK6	11.46965717	12.5571467	16.09822815	16.67517265	17.27006219	17.52604954	12.89687229	13.3649943	12.17526152
PTK7	15.99946174	15.87189567	15.94932046	15.9867633	16.00322008	16.02749295	14.75097487	15.47097118	16.44098244
PTMA	22.97862994	23.06804263	22.81177941	22.33169397	22.79408357	22.46894205	17.51097899	11.77878736	12.95593897
PTMS	20.60294178	20.91363031	20.87331789	21.51252087	21.47190716	21.36041807	17.70416832	17.9204807	18.24932211
PTPA	17.69663914	17.38252838	17.48127337	19.44192997	19.70826906	19.67763046	18.3851646	17.35165272	19.53094671
PTPMT1	12.15405956	14.12557364	14.14051566	12.6790838	14.85676539	12.67382165	12.37325898	11.64466581	11.86713052
PTPN1	16.09803014	15.96030107	15.78623384	15.65316025	16.24850013	14.91524531	14.49851666	15.09628656	15.21521589
PTPN11	16.79507199	16.79804904	16.71651522	16.78805742	16.50707204	17.02281879	15.98572114	15.69254329	15.74116365
PTPN2	14.80038086	15.44992675	15.39001765	12.91427197	12.82046338	11.91352376	12.79566799	12.83756399	11.37371698
PTPN23	15.28519703	15.06372314	14.90790781	16.15304844	16.40487098	16.32713912	12.68739121	12.65837937	15.37099492
PTPN6	18.35228661	18.41353818	18.28903247	11.48907872	12.72744941	11.79826429	12.12103027	10.78180016	12.59545657
PTPN9	16.32855109	16.55243922	16.61589841	17.08087722	16.8896329	17.34298814	12.4973471	11.51320481	11.81977714
PTPRF	14.45850183	14.93677928	14.73140167	17.09422179	17.12965879	17.08566413	14.72104542	13.92425677	18.19463424
PTPRK	14.59308037	13.99163426	14.28098191	11.3607795	12.36552267	12.55833266	13.11805658	12.09923757	12.01563857
PTPRR	18.17074676	18.12172197	17.78617723	18.7332098	18.3949888	18.51436588	12.37884976	13.28732799	12.12866606
PTPRS	12.99262408	13.45810552	12.66836037	16.18020437	19.02222658	18.88614252	19.12721316	13.20149882	19.26184341
PTRH1	13.26512717	11.84268883	12.19269182	13.18940409	16.96908072	12.45124032	11.48543392	11.9732868	11.44917785
PTRHD1	16.26950286	16.5583952	16.28488912	12.16701453	13.28752725	11.78992029	12.14838477	12.24543445	12.46376003
PTTG1IP	17.07986123	17.8777708	17.32519879	16.04883007	16.3072233	17.4604665	12.74674471	12.34345895	12.87638965
PUF60	19.41639554	19.32711448	19.49675883	16.32673831	14.94365877	14.77721625	12.37868813	11.71454262	13.30859761
PUM1	16.0037824	15.95380547	15.83110673	16.53471585	16.29855088	15.30499431	11.99354638	13.30669609	12.22005125
PURA	15.35413722	15.16048242	14.45815134	12.74910842	14.11941113	13.92666352	13.06429547	11.74614832	12.11529965
PURB	14.99859174	14.11035378	14.04378317	15.21439546	12.43565309	17.05991616	11.51642041	11.63150232	12.63527482
PUS1	14.2437755	15.40787212	15.78412104	12.98969608	13.04700556	12.69947727	13.60449909	12.22980108	12.40432655
PUS7	15.32400877	15.21207387	15.40779051	16.84431774	16.96739455	17.35172564	11.69085573	13.6490806	12.82063309
PVR	11.71543758	14.11725634	13.92239115	14.87197482	14.77557353	12.63343046	12.77441523	13.04063478	13.5577871
PWP2	14.55529774	14.76308338	15.55993769	11.77684803	12.22225485	11.61994929	12.28315042	12.727508	11.59588218
PXDN	14.40957398	12.89590389	14.11890673	11.7243012	11.6741836	12.17770375	12.70475938	11.93432086	12.75142369
PXN	12.11210344	14.29873969	15.58746684	12.18689212	17.15877369	17.70771523	20.11272529	12.01210098	12.65614717

PYCR1	16.48071538	16.23950844	16.23678204	16.10135894	16.80047694	16.56811448	12.31117915	11.86136013	11.59757967
PYCR2	14.98651055	14.80005468	15.2524152	14.921673	14.72508418	12.3803847	11.59769086	11.73797863	13.66291433
PYCR3	15.84855625	15.35688619	15.85245422	17.50626957	13.05311721	16.74269377	12.03614813	12.71553698	12.10877794
PYGB	16.78869535	17.29102309	16.84824029	17.01462873	16.62697173	16.60121848	16.88216999	16.85476138	17.25187129
PYGL	15.62676316	15.70805277	15.76604296	14.5220679	15.48376399	14.58402479	11.8116972	11.99543975	12.16993523
PYGM	16.34280965	15.91110339	15.54380742	16.0892233	15.8597316	15.53194697	18.00167272	18.00589497	17.98805076
PYGO2	16.21185513	16.40607374	16.379446	11.40410531	12.2716395	12.86967465	12.38667117	11.90804661	12.65729947
PYM1	16.7431801	16.69295302	17.09130861	18.56556423	18.46440115	17.67696273	21.35785688	19.47513526	21.10885006
PZP	13.73417882	11.49301109	12.65580889	19.76997848	12.48814151	12.47447786	11.96048457	12.91065632	12.61143159
QARS1	16.07108864	15.94573672	15.62299714	16.080412	16.09507798	15.65234224	13.82434404	11.93411913	10.79355175
QKI	13.03673805	12.88263153	12.91588698	17.4221001	17.13257645	17.02721919	17.08377559	17.36002673	18.0276108
QRICH1	15.25332732	15.93052801	15.83495664	12.57204693	12.52020458	12.24683049	12.72831638	11.4644585	11.91433973
QRSL1	12.0877546	14.5224514	15.27766814	12.54165252	12.6792583	12.41351953	12.34763529	12.22429622	11.87069214
QSOX1	15.50732468	15.12848446	14.31411591	17.60558748	17.71887245	17.64370936	11.98704081	12.02355167	12.45158873
QSOX2	15.62304065	14.46716482	14.0764622	12.23322955	13.07650351	11.57722557	12.41262401	12.44699453	12.50539405
QTRT2	15.12731811	15.18572885	15.05303865	15.0317858	13.9921399	12.24213195	11.9724752	11.78812193	12.27941755
RAB10	18.28883308	18.42012235	18.2769513	18.90716705	19.13150274	19.14429241	16.08643589	17.42873131	11.74648217
RAB11A	18.9065392	18.76940323	18.5522474	19.0862451	19.61397732	18.39189105	18.38357983	11.93696337	12.30391406
RAB11FIP	16.60905167	15.91448288	16.15029429	15.06221435	14.83181311	14.87455455	12.21341038	12.76430394	12.06436369
RAB11FIP	12.92833097	12.43917701	12.84607699	12.62658289	12.87449643	13.00609701	12.94628237	11.89706693	13.44953669
RAB13	17.90210896	17.7428825	17.85617432	18.09080687	18.26348142	17.60852438	12.80593063	11.68839493	12.73405806
RAB14	17.62224087	17.8381708	17.70701647	19.74663025	19.59861811	16.55085632	15.96928602	21.06689677	20.39376534
RAB18	17.11798178	16.9900728	16.65454855	17.00386811	15.2418005	15.51753669	13.57697118	12.15212878	11.66172908
RAB1A	16.42389771	16.66867088	16.68227848	18.19993251	19.26002995	19.34679416	12.08346455	17.95063155	16.2211314
RAB1C	18.36677136	18.21855059	18.11486018	18.15873059	17.07387388	18.2240168	17.96482795	17.78562975	18.55443838
RAB21	15.14412652	14.79644479	15.572605	15.53993239	15.67535496	12.70734616	13.42880957	12.77109785	11.97646952
RAB23	15.3390786	13.75134641	16.26631403	15.92464142	16.36597301	16.35356967	17.93775629	17.04388201	16.56739213
RAB25	19.20153916	11.72667727	11.85364813	16.13547394	16.85070487	16.43347242	16.57563752	18.08550631	11.58665157
RAB2A	17.4490257	17.44538297	17.50002188	17.31687664	17.4431602	17.80682404	14.6695692	17.95637553	16.69013041
RAB2B	15.56012589	15.70460718	15.59730755	16.65572627	16.18402465	11.30509525	12.93994082	11.12116672	11.96329638
RAB30	12.65958967	12.3234917	12.24869744	12.64813349	12.9992108	12.0716102	11.59615469	12.43623919	12.7437861
RAB35	14.73151029	15.06966931	14.91959176	14.43885272	15.11863652	13.78798071	12.21683018	11.7764553	13.21590945
RAB3D	12.72924962	17.40363855	17.36561026	18.45811888	18.46322013	11.84190718	18.33058595	12.46866607	12.28739463
RAB3GAP	12.64792198	11.45190319	11.98261079	12.92694912	12.96919291	12.48925852	12.0732582	13.18367059	12.74638824
RAB3GAP	14.39931601	14.13106745	13.91333927	15.50001212	15.72884454	15.44734588	12.76181581	11.24135435	13.53626746
RAB4B	11.79858326	13.3716013	19.1049757	14.86288353	11.98813241	11.45919259	12.49507413	12.95489459	12.9238998
RAB5A	17.46123342	16.15227386	17.56213488	16.17032278	16.41878824	16.33923589	16.1832237	17.26548836	17.11533344
RAB5B	16.7427936	16.80155056	17.1886148	17.09941728	16.65332647	17.17916091	15.41358569	15.52975264	16.9483222
RAB5C	18.80219437	18.85542749	18.56966729	18.44937769	18.67837162	18.71344975	17.10576465	16.14707472	17.34403194
RAB6A	16.78442841	16.82352714	16.90201072	14.39468229	14.07937466	14.26747117	16.28425109	12.44714282	11.10021043
RAB6B	15.22056479	15.25691213	15.48875688	15.0726823	14.59885886	15.91716044	13.31458032	11.6033883	13.13257045
RAB7A	18.54582327	18.81440122	18.73976274	17.87989864	16.4879881	17.42889833	17.52598523	18.17451192	16.82863247
RAB8A	15.85988392	16.19445491	16.54248996	15.12693036	15.41031955	15.89535253	11.40295143	11.91222679	13.13704733
RAB8B	14.87400882	14.80863325	14.77973833	11.82256707	12.40625937	11.89852185	12.5824982	12.06049416	13.3748139
RABEP1	15.05946256	14.86670391	14.57366353	16.50606623	11.82299411	15.37759977	12.33577085	12.98219748	11.8146709
RABEP2	14.54492759	13.21434514	13.6875429	15.43347383	14.54876002	15.52971379	16.71631546	12.32933168	11.20020514
RABEPK	13.36600592	12.94592341	12.70771995	12.77127188	13.09740256	12.88559668	12.89173043	11.53010688	13.3526227
RABGAP1	12.62645315	12.65898535	16.69570806	12.72565331	13.0826453	12.79186708	11.9418442	11.80635013	12.18132122
RABGGTE	17.08282466	16.94488749	15.45288368	17.12412904	17.46625595	16.75520588	11.99677803	12.74089474	11.71955954
RABIF	16.76176511	16.90850252	16.89595013	17.86903679	17.37350468	17.3596639	17.37999301	17.78071219	12.71776388
RABL6	15.98897788	16.39130328	15.65017218	11.31909944	16.25415307	11.69016394	18.25236793	18.41573153	11.96113897
RAC1	16.54070309	16.6823659	16.46255002	17.02245881	17.15338531	16.64324926	13.27837751	12.30148248	12.35830027
RAC2	17.87380798	17.90682421	17.91145927	14.96564573	15.95038932	16.5923805	18.60356242	18.73061833	17.20860022
RAC3	14.46928134	14.28943778	14.19566253	13.15772327	11.6918578	11.9344704	12.43137944	12.41323913	11.56590839
RACGAP1	13.78024473	14.30037693	14.25451803	13.63150391	12.36217295	12.02092317	12.7933902	11.55420936	12.53030655
RACK1	17.64338648	17.884607	17.99623364	17.08319771	16.8901441	17.37128499	17.09151585	16.44844178	15.91462498
RAD21	16.52597428	16.98216994	16.88205382	15.81284926	16.46794141	16.32447842	12.63642251	12.95622065	12.90861799
RAD21L1	14.19699568	13.4702292	13.81209966	12.23521751	11.43799572	12.27353719	13.25254273	12.61183322	12.33688483
RAD23A	16.6121511	16.73435351	16.11927523	12.50373037	14.96702332	14.46860967	12.08138668	11.88252434	13.39172221
RAD23B	17.78116253	17.70129096	17.77023373	17.08854075	17.30314719	17.39300386	12.42450888	14.98700393	14.82686613
RAD50	14.75727496	14.54731888	15.02367233	14.51756088	15.13369446	14.83725054	13.42446382	13.57267518	13.4383453
RAD9A	15.00671346	15.2267449	15.41389444	11.78184157	12.47224305	12.58917323	12.56934053	12.94898805	13.12510093
RADX	15.51033609	15.93042228	15.8570045	12.67982306	11.95430754	12.27647243	12.78600601	12.2943316	12.96800824

RAE1	17.13723219	15.92890248	16.18327623	11.23994764	13.01092073	12.4757333	12.52927032	11.98463022	12.8674437
RALA	16.75655673	15.88491756	15.53848555	14.49558702	13.89443844	14.29086381	16.84359861	11.63943878	13.4662123
RALB	12.08633756	15.99341672	12.45907477	13.32151389	12.41703944	13.13153002	17.13961098	12.16131966	11.55622205
RALBP1	14.84415541	14.27157605	15.4832602	15.53525871	15.91245091	14.97607083	12.54490161	12.37801343	12.10269124
RALGAPA	14.03781849	13.62387502	12.41434291	13.03622839	14.2611435	14.72047321	13.05338394	12.64975544	13.15670149
RALGAPA	14.68209176	15.2600229	15.45045694	15.73864831	16.07744447	15.81119783	17.82425751	17.64898634	17.74478631
RALGAPB	14.78796385	15.19904371	13.74635513	11.54290767	12.81666317	11.54764064	12.44796685	12.92462947	12.40415768
RALY	18.73565273	18.56944066	18.56305289	18.37894177	18.51268113	18.41925213	17.98125259	18.34607031	18.34690036
RALYL	15.04257342	15.43168193	15.45815134	18.04946952	17.76184537	17.79068023	12.49270516	13.21782351	12.50567173
RAMAC	14.4384428	14.59244877	14.10624865	14.12762263	13.86189327	14.58627328	12.66238516	12.48381451	12.18392419
RAN	19.14584615	19.22479187	19.21415413	17.58615213	18.19292781	18.10029972	14.87723396	12.56317462	12.7632236
RANBP1	18.87617101	18.91316033	18.86794581	16.78157126	16.76906942	16.59260384	16.55435287	15.0340654	16.29738787
RANBP2	14.91702649	15.18732451	15.02814177	16.66715474	16.41431465	16.23540227	15.05596848	14.60419574	15.46219759
RANBP3	17.0200819	17.12074934	16.95233441	15.3550118	14.45655241	15.31881303	12.0833706	16.09051325	12.39640643
RANBP9	16.30694447	16.36738736	16.1274748	16.62018902	16.76725024	16.83418359	11.66281902	11.99982075	11.5035459
RANGAP1	15.08431695	15.33642222	14.54495865	14.54340395	11.94525407	11.50141926	12.19967742	11.72405944	12.36986248
RANGRF	16.42047269	16.27922892	16.28298097	15.33358318	15.15543052	15.1549207	12.28467049	11.79929951	12.22384197
RAP1B	17.38486437	17.53105175	17.46614295	18.09189118	18.03267854	18.48307185	15.40998328	19.03862536	17.96414724
RAP1GAP	14.72861744	15.41587932	15.21805762	12.06741616	12.79640996	12.42747082	12.09484621	12.9259228	13.05109978
RAPGEF2	13.65101462	14.76565168	12.57520183	11.52789732	12.03647895	10.72453604	13.05392511	12.09458252	12.78716744
RAPH1	15.26745825	14.90249456	14.69309613	14.38905565	14.0840886	14.92302922	10.87131319	12.7806249	12.8930122
RARS1	15.88549385	15.88974215	15.8686955	14.47064343	13.8459251	14.53290429	13.14379408	13.23203942	11.83170142
RASAL1	15.93370756	15.902128	15.45630273	13.48730393	13.66160088	12.08034031	12.23983294	12.38811277	12.08061294
RASGRF1	13.77043663	16.40447611	13.24911484	12.77764333	12.38749418	17.65975221	12.62158195	12.94782772	13.01639932
RASSF6	12.30264757	15.63130925	12.66158353	15.60900238	15.84621611	12.86311968	11.5606701	12.46913436	11.66222219
RAVER1	17.01396529	16.76838746	16.79275517	16.38132434	16.35861623	16.7838027	14.89723657	12.30111331	14.77201503
RBBP4	19.08773686	18.89874441	19.16038271	19.2039041	18.7668888	18.93060761	15.76201014	17.19633357	11.90164348
RBBP6	14.14233809	14.41876131	13.87743166	14.43124811	12.57173875	14.15058603	11.62838816	12.52484005	14.25483387
RBBP7	18.12908635	18.06727464	18.29189107	16.73110383	16.93850059	16.51452158	12.23924772	13.49137908	16.30060891
RBBP9	14.43752375	14.39067836	14.83560768	13.84107365	13.49010386	13.4729245	12.55180288	12.40671396	11.90908703
RBFOX2	15.40143675	15.49868883	15.38898931	11.52161513	12.8486866	12.12337607	11.90003442	13.41199028	12.10847547
RBM10	16.43758964	16.3104311	16.31269766	14.97234405	14.6283712	14.71087745	12.34352928	11.81479219	11.68072751
RBM12	16.80652585	16.45603579	16.87503389	16.06141784	16.57939542	16.87007953	13.96690954	12.10203935	14.33619208
RBM12B	15.70577495	16.03937338	15.98617371	14.26945057	13.91755185	13.27937132	12.66886688	12.99169068	11.22629623
RBM14	18.6238895	18.69048305	18.76405774	19.36693852	19.35175301	19.42627412	18.58835331	19.06082717	19.18177544
RBM15	16.3204883	16.51265347	16.10082924	15.54038195	15.81048095	16.61875603	15.20607381	11.72950015	15.27696484
RBM15B	14.88323202	14.85875146	14.46099073	12.47834012	14.64225727	14.92628321	12.62470992	12.13036668	12.34901725
RBM17	16.32767606	16.3858527	16.15813077	16.85079283	16.81939525	16.26656218	13.22102152	12.13094925	11.82587529
RBM22	15.77373731	15.94121917	15.94847769	16.64675936	11.80976336	15.5682973	11.72515119	13.03333631	12.75866956
RBM23	16.27413963	14.68785525	15.80867088	15.16822616	16.87499358	12.92281046	12.75475076	11.1130843	12.00635257
RBM24	16.80973287	16.89097909	16.42137766	14.30232038	13.15297522	13.17151351	12.49171781	11.62142218	12.43441507
RBM25	15.72744645	15.73244154	15.57745574	15.15596591	14.30433713	15.00442325	13.36462477	11.85678203	12.27034089
RBM26	16.66509599	16.2216388	16.7883831	17.20376391	16.62287224	17.44257907	12.92154278	12.40163593	12.52496549
RBM27	15.95261354	16.17777651	15.95098939	17.17917519	17.03475183	16.40313397	12.49207057	11.5341539	12.285906
RBM3	19.21044744	18.7614142	19.34850809	18.55888843	18.86635282	18.29477341	19.97696367	13.03484401	14.94724508
RBM33	16.32729614	16.46231166	16.24509915	16.56474575	14.69309323	16.16068335	11.96626307	17.22002178	17.28817742
RBM34	15.22485643	15.53604812	15.66841197	11.28275042	14.51644966	12.22446662	12.43534001	12.33205473	13.02619198
RBM38	15.9400687	15.28828319	15.59006301	12.01811375	12.7599359	12.18393734	12.37626457	11.8541132	13.15707971
RBM39	18.59205784	18.56415766	18.46645265	17.83277516	17.80312731	17.69203061	15.17668617	14.66593635	14.81206529
RBM4	17.51581505	17.40030492	17.35370406	18.04548931	18.27211766	18.11450541	15.12822995	17.13739071	17.40705019
RBM42	15.04289103	15.53909805	17.59888746	17.98475615	17.83667013	17.38277901	12.19141936	12.89624092	17.37185752
RBM45	13.75638458	14.527395	14.27347482	14.32633968	13.88415607	14.59280318	12.15466282	12.45341508	12.97792736
RBM46	11.56436154	14.34414812	14.99602601	17.33919752	17.3806172	17.32316593	11.56207777	11.76895782	12.29982968
RBM47	11.64823397	11.06988721	16.66651658	15.62355338	15.20363697	13.89514055	12.17754266	12.6276933	17.3746574
RBM4B	16.07749471	16.23847544	15.80744433	14.72017828	13.03106712	14.98890787	12.50104791	12.36128422	11.99948811
RBM6	14.12037901	13.74897432	14.2023294	13.87307611	13.99715084	14.22439914	12.79523143	12.19408279	12.7311785
RBM8A	18.48809529	18.61800606	18.73008645	19.89176967	19.7349917	19.93332279	13.45785357	12.44269856	16.50310205
RBMX	19.02189555	19.27629122	19.0994362	19.93448864	19.92474147	19.84691844	18.66320476	18.75271474	17.79972749
RBMXL1	13.52985453	13.58321585	13.87041504	12.07392343	12.77954317	12.36770553	11.9410177	12.26901702	12.29357617
RBMXL2	19.7033341	19.51200273	19.65780718	19.06059403	19.05118528	19.25313487	15.93020398	12.23092747	12.40308367
RBMXL3	20.55766406	20.66249616	20.60979127	20.0066197	19.88114345	19.2681301	18.21771598	18.69298588	12.9407111
RBP1	15.18386025	16.08541234	15.12285054	15.75672328	15.59181336	16.19762311	12.57273818	12.40750849	12.98106336
RBP5	13.25104421	14.37013653	12.86832959	13.43085375	13.61409822	12.20716556	12.74208787	13.73178651	11.46282094

RBX1	15.27723631	12.75917056	15.79016231	17.13171179	12.40255726	11.82098609	11.8689562	12.69639615	11.52280872
RCC1	16.62164411	16.61857598	16.4542879	16.36615867	16.68795344	17.27224605	13.33519158	15.17969792	12.29182478
RCC1L	16.09725387	12.81538765	16.35263469	12.15985421	11.84871907	13.19309865	12.11636601	13.32705602	12.41135912
RCC2	17.75593286	17.74039838	17.78996634	17.20389254	17.36404091	17.67539495	12.68678776	16.35811727	16.70938461
RCE1	15.31461794	15.30416816	15.22872633	11.81654404	12.46056274	12.14027444	12.93366742	12.23152758	12.93332477
RCN2	18.58154094	18.16514968	18.01766549	16.70199817	16.80983813	16.65377802	16.15785569	12.65492016	16.58506352
RCOR2	16.19528223	12.09062831	16.64365554	17.71456397	16.90211418	17.76509935	12.4127702	13.20546335	11.39082804
RCOR3	14.8818666	14.89009866	15.02720014	13.89517387	13.23098029	12.63742742	13.32970597	12.61352862	11.66431136
RDH11	15.10629014	15.09188048	15.13131212	18.15943422	18.63000432	18.24233494	11.04635567	12.90358999	12.52465098
RDH13	14.9548657	15.35136858	15.2298255	18.51594118	18.25472922	17.97638814	20.68569891	19.68606154	19.36252129
RDH14	16.61320485	16.65136306	16.57088433	15.98376718	15.79937225	15.78148887	14.56147024	11.77792322	13.14906003
RDX	17.19644085	17.61847677	17.62533855	18.03345387	18.21537168	17.99086583	16.80249916	17.20068511	16.48077621
RECQL	17.17997168	22.10393162	21.67456558	14.78518031	14.47381106	13.25916158	15.26187716	15.60280746	12.95880537
REEP6	14.458396	15.05703297	12.76734581	20.41072191	20.27163439	20.36584405	20.33984716	21.0207844	20.56487982
RELA	15.82645416	15.80018159	16.03184328	17.39324771	17.33784695	17.61902079	11.74890465	12.84268365	12.05614903
RELCH	16.73635157	16.86759137	16.74538888	15.82202486	12.06866255	15.3125963	13.61473948	12.97739007	12.59107738
REPIN1	13.30780617	13.84512001	13.57991139	17.38201352	17.59595167	17.73432459	19.28207545	18.97351595	18.77390158
REPS1	15.3826343	15.80410878	15.9173435	15.52028973	16.14843317	16.07317182	15.55158513	15.64300213	15.88024693
REPS2	15.90927131	14.58983148	13.93776026	16.20218328	15.9784536	15.73037919	15.52595483	11.94642536	16.55605211
RETREG2	14.61087523	16.00836915	16.5013047	14.39282784	12.90118699	11.84025605	11.82272129	12.18997051	12.16042697
RETREG3	13.91283315	14.50172334	12.13252365	12.61129501	12.31532454	12.28767752	12.07347748	12.84030628	11.92407982
REXO2	15.38847091	15.87955716	15.77074397	14.85504024	14.73246276	14.96001422	12.97279707	13.35228416	12.32537084
RFC1	14.61496354	14.83990588	14.57703142	12.37755914	12.12675895	12.52217263	11.62805968	14.34607189	13.2530819
RFC2	15.39509279	15.68156624	15.63437434	14.23684849	11.89681217	12.57126082	11.41243438	12.31808457	12.42052315
RFC3	14.20562712	13.73366516	14.38833318	11.11710663	12.65486082	11.47807434	12.67405821	12.29624979	11.88008936
RFC4	15.77488205	15.89308075	15.85495514	12.14936187	11.59406027	11.71732347	12.78834041	12.72701688	13.42138452
RFC5	15.67623907	16.34630696	16.50369978	11.91142276	14.19972429	15.12088062	11.43401944	12.78904465	11.95286638
RFX1	15.90391442	16.28315059	16.10629853	17.36114765	17.60511668	17.706256	12.05505965	12.6972564	17.29507813
RFX3	15.202503	14.78649084	15.07928297	12.73114809	13.19597774	13.74297314	12.33499725	11.8392483	11.85045423
RGPD3	14.35909842	14.75759735	14.61373115	14.98291092	14.78047285	14.90626263	12.11207972	13.33661865	11.67139792
RGS10	13.47612704	14.1385371	13.21171047	13.18795131	19.18997977	11.78108521	12.94439302	12.40442114	12.12356491
RHBDF1	14.64146855	14.79101647	14.37755378	12.45386401	11.82674432	12.37625591	12.37517954	12.63328891	12.38266414
RHEB	15.83127363	16.1930954	16.18807816	11.40087799	13.80177382	15.43721419	11.95981935	11.98918182	12.15350595
RHOA	17.16443077	16.03189252	17.37497126	18.34069099	16.78731554	18.55892728	12.25457326	16.99164464	12.5023262
RHOG	15.39950893	15.77976956	16.02471223	12.40993754	13.09326398	12.14771995	12.37128204	12.76404992	12.87499889
RHOQ	15.51827671	14.25584371	15.86342493	16.64331428	16.83943824	16.52552466	12.31015255	13.27128796	12.12439477
RHOT1	16.43275142	16.17911493	16.53640962	17.92935286	17.9796307	17.80720396	18.29591266	16.708463	13.0495298
RHOT2	15.55710424	15.97424589	15.81963308	13.37571058	13.0106399	13.77562473	12.57354467	12.42334801	13.1344569
RIC1	19.38374919	19.69974591	19.67547985	21.07784316	20.68610814	20.82149697	19.44789911	12.50103625	20.12667049
RIC8A	15.62088526	16.04553021	14.57785939	12.19059835	11.61313167	12.58500061	12.57312824	11.49531667	11.6825065
RIDA	16.451873	16.17170688	16.16252104	17.04977391	16.58653585	16.29706328	13.30667146	12.8173208	12.23922916
RIF1	14.64710473	14.51955019	14.5002032	12.03338886	13.08463545	12.33950725	11.91686901	12.21880814	12.8992359
RIMS2	12.60708999	15.50665325	14.87534019	13.12590672	11.79758907	12.17783338	11.39753795	13.2546669	12.57291575
RING1	16.26080456	16.07485134	15.85669189	13.20383912	15.53327897	12.72818923	12.0447374	12.17220547	12.59110466
RIOX1	12.96290719	13.80520087	14.15379071	12.64566978	12.50445414	12.34058998	11.84104292	12.06121007	12.13855404
RIOX2	14.59070875	13.92989353	14.02401478	15.86758424	16.55282563	15.82903775	11.64776791	11.98576772	11.94023157
RIPK1	15.05742624	14.21295499	14.92263835	11.97823341	13.40486246	12.82224238	12.55914356	12.68748279	10.86035008
RIPOR2	13.22108717	12.46685366	17.49043701	13.0742264	11.88378942	13.27619734	12.35449715	13.40192643	12.88808318
RMDN1	15.56277389	15.64178885	16.38883276	12.71957976	12.7047768	12.47257798	12.44536166	12.16965637	12.52690561
RMI2	14.8463137	14.02857151	14.40503112	11.9067023	13.84055228	12.57833447	12.54514934	11.46693714	12.81273798
RMND5A	15.9127173	15.08718386	16.35271113	12.8656669	12.70901449	12.47546975	13.16255697	12.16073547	11.78221811
RNASEH2	16.2644792	15.67681357	15.55902033	13.61860306	11.01284055	11.58397857	11.76668371	11.58902312	12.09595403
RNASET2	14.72248387	13.84233549	14.17173623	12.19342081	12.7047694	11.94167111	11.95255077	12.60252567	10.92900092
RNF123	15.27659125	15.63377884	15.38248936	15.99002394	16.65513518	16.41392627	12.21326694	12.67146956	12.36733119
RNF2	16.5810207	16.83603932	16.58148306	13.87648479	13.81177639	14.10535155	12.64514588	11.59013456	12.0216102
RNF20	14.79547308	14.95261751	15.2964205	11.34639264	15.49402308	12.72940758	12.81300075	12.49122078	11.97747705
RNF213	12.17887001	12.09467603	12.61882542	12.64160409	12.53404214	13.06888651	12.01917067	11.79696024	13.47037843
RNF214	15.57176127	15.87151391	15.96735035	12.91063484	11.56679387	13.11035991	12.30284506	11.88945956	13.42049935
RNF40	16.33392872	15.77925575	16.01637472	14.35867834	15.03594907	14.94919046	11.80308639	12.80632973	12.10730562
RNF8	11.65046288	12.38250043	13.80447973	12.21935728	12.9410619	11.97321825	11.96643506	12.23814957	12.09520334
RNH1	16.90621636	16.56254156	16.72759405	17.34359055	17.51153669	17.27220373	11.48018547	12.29496072	17.76272786
RNMT	16.25309603	15.56629561	15.7783162	12.31024857	11.79873462	12.9038082	11.5691194	12.37450484	11.69587993
RNPC3	14.62327076	13.55687659	12.39082021	12.30744602	16.08946259	11.58771279	13.24175394	13.50928702	11.60674018

RNPEP	16.76656777	17.12706187	16.66584217	17.35759703	18.73113319	17.27775011	15.67180942	15.44622309	15.79295784
RNPS1	17.43552648	17.69696068	17.29246303	16.85307321	16.74261281	17.24062674	11.84724918	17.51132814	17.24027759
RO60	16.15822167	15.96405485	16.02424677	14.13643921	12.88060078	13.63721323	11.02076432	11.61018651	13.04612981
ROBO1	14.4431429	14.88538851	14.56887866	11.82890754	16.27356652	15.753258	13.53849171	11.91628571	12.55974773
ROCK1	12.56132525	15.40455223	15.3630953	13.12133279	12.05883001	13.00088856	11.90390093	12.13203664	11.56924425
ROCK2	15.00565925	14.66520606	15.12125995	17.05875135	17.12099324	16.55432562	19.83414312	19.71179165	19.23210657
ROGDI	13.86003747	14.60955111	14.35391841	13.34240984	11.85416977	11.65509893	12.43953179	11.95895167	12.09740867
RP2	15.12882051	14.68648279	14.28518554	15.75432218	15.95676005	16.32430349	17.20536519	17.91319485	16.39202874
RPA1	16.82606462	16.60675762	16.67504584	14.42913855	10.70828471	13.48991038	12.99651062	11.84705983	12.55559068
RPA2	16.00823879	16.26389277	16.74323786	11.60055879	14.24982887	14.61128614	12.33065495	12.63833578	12.33368771
RPA3	19.25590459	18.36630981	18.55425082	11.90911597	11.67405134	13.08865689	12.42710175	12.11141803	12.73069493
RPAIN	14.97253523	14.93253535	15.57726416	12.5625697	15.30238943	13.13350344	13.26096915	12.61201638	12.38145684
RPE	15.58341475	15.18906218	14.46181311	12.43440648	12.32867503	12.36279208	13.02485184	12.69027208	12.52770183
RPEL1	16.91490363	17.18165038	17.06438517	16.178883	16.67254802	16.77010264	15.66706235	16.19602896	16.55212537
RPF2	12.48740413	16.00451749	15.06271435	13.77623544	12.50284478	12.27810116	12.30544732	12.22508474	12.69325353
RPIA	14.83418208	15.39037861	15.03038166	12.60125683	15.15767988	11.37999734	12.27888915	12.31056229	12.80075199
RPL10	16.10433863	15.13719407	16.23546638	15.14717609	15.03722405	14.4719773	12.09168995	12.95643358	12.12686614
RPL10A	17.41777254	17.72497787	17.71004713	15.69752397	15.66326824	15.81451451	16.80675742	17.60166826	17.92316112
RPL11	17.9665255	17.93846472	18.12398709	19.34195716	18.36115756	18.43717308	11.78906837	13.62181065	14.97794628
RPL12	18.67737222	18.39153212	18.51453604	19.3850052	17.79706984	18.96250748	19.3145296	17.19491152	19.16017753
RPL13	18.28934091	18.43895551	18.41107697	18.63728014	18.54914286	18.60630374	14.51316372	18.15789807	12.12684554
RPL13A	17.46471021	12.73601495	18.19633359	11.7961783	11.7724027	12.62557467	13.29831386	13.25380196	11.69226097
RPL13AP3	15.85289003	15.93327419	15.9575889	15.59330112	11.33321052	14.92680179	12.30243506	12.56589693	13.42530584
RPL14	16.06747947	16.51125656	16.40086856	16.45740012	16.57178181	16.52365942	18.29991153	17.08983027	16.47812924
RPL15	20.13392327	20.23536506	20.18860528	20.77730955	20.85756442	21.27898786	18.77979037	18.95097006	19.54363376
RPL17	16.3619807	16.56843557	16.57777699	15.62226452	11.6648061	15.52018746	11.12179522	18.05843252	12.11221425
RPL18	16.84652051	17.11967397	16.69039478	15.64289735	15.98867507	14.95516444	15.53200788	12.88650681	13.04615299
RPL18A	16.23201694	15.89374729	16.20853484	17.39388326	17.99651854	17.33291545	11.53116493	12.37925407	18.61843794
RPL19	18.65018968	18.83523201	18.63822507	18.50115894	18.68569801	18.71072964	12.9385383	12.36711886	12.59675848
RPL21	19.37712768	19.23167568	19.38883214	15.19160585	14.74445838	15.62997049	18.44360534	12.57194847	18.29347302
RPL22	20.053151	20.05506382	20.06191796	20.46870964	20.24378517	20.15877402	19.0944712	18.74049527	19.20599058
RPL23	15.35938747	16.22855185	16.38346248	13.43439734	15.07059997	14.50541332	13.63877493	12.06515174	12.38603264
RPL23A	18.63804821	18.77248786	18.81678879	18.76023593	18.85153696	18.68722297	17.79166491	16.61331903	16.78197128
RPL24	17.94275379	17.92226913	17.64238723	17.82444289	17.8952256	17.82817441	12.59730112	12.0228661	17.59291886
RPL26	16.41126974	16.66140726	16.71030825	17.00071475	17.67937234	17.55986507	16.16542423	12.18165418	11.08924399
RPL27	17.31073258	17.56630128	18.10010314	17.54633766	17.45192328	17.35881226	15.22656971	13.07517142	13.29437216
RPL27A	17.43178832	17.52989302	17.22159891	16.43742652	16.10915061	16.46418664	11.70124516	12.14257886	11.51188917
RPL28	16.79074591	16.79360677	16.76106262	16.25319317	16.73647295	16.3774143	17.18863417	17.52147136	17.97991732
RPL29	18.15530864	18.2801004	18.3760559	20.38333503	20.05169495	20.02340362	12.36729604	17.70956599	12.16706132
RPL3	16.94579901	16.82813103	17.54244447	13.17030453	17.58741733	16.86791537	12.25246021	12.01033071	14.26902802
RPL30	17.7393754	17.84360435	17.77437127	16.66671124	16.48901363	16.22793826	16.44459273	11.92721957	12.17386834
RPL31	17.7292037	18.02373653	18.02812262	17.14183668	17.26452995	17.30106891	16.27991055	14.50284423	17.15470944
RPL34	15.89645444	16.07133399	16.17692641	15.26298008	16.44543925	15.88043825	11.88274749	12.01806433	11.29475094
RPL35	16.50503077	16.38060653	16.11909548	12.58170367	12.59667851	12.41878133	12.25399598	11.85900198	12.85008117
RPL35A	19.04212445	19.01352867	19.24435805	19.24610029	19.27778365	19.28267738	13.34511878	12.75296538	20.53117194
RPL36	15.98740803	16.04651261	16.12973678	15.22170858	15.49430981	13.00040595	13.14517488	12.19346876	11.72052921
RPL37	16.13738367	15.83875714	16.5342678	18.6592566	19.07499199	19.12126204	12.31040032	19.66172668	18.44605391
RPL37A	14.64209761	14.51019465	14.52715951	14.13280411	11.73649906	12.47723983	11.88684542	12.0587942	11.45690757
RPL38	16.5848757	16.846641	16.30859886	14.66172651	14.40287	15.09301711	12.12363054	11.86625093	12.7467075
RPL3L	19.54877078	19.30997051	19.26115522	18.72789338	18.7114121	18.89511406	11.85141847	11.6402681	11.83936797
RPL4	17.60030219	17.66947926	17.69137158	17.13517055	16.51188495	16.98208019	14.91149361	16.15595045	12.01940355
RPL5	18.84816559	18.93175717	18.90619217	18.97301003	18.87518206	18.62961792	16.27550769	17.10933283	16.83726088
RPL6	19.47606415	19.45328131	19.41329842	19.16433167	19.12905437	19.05197257	16.8127175	16.16254149	16.98051724
RPL7	17.89961228	17.8364021	17.86063861	18.38110059	18.24503461	18.3634942	18.58636735	18.23638955	17.1711473
RPL7A	17.06714323	17.15795432	17.18810943	16.85960685	16.07046802	16.94157865	13.33841187	16.34533043	12.21648341
RPL8	18.48807532	18.76438768	18.38271249	18.56547508	18.60816492	18.62414218	16.29760496	16.62449925	11.94958735
RPL9	17.42663864	17.18637594	17.26241851	17.1150476	15.16941224	16.81366736	17.31510961	13.37029015	16.71786323
RPLP0	18.13269905	17.81191653	18.19130692	16.16855557	15.68618503	16.68183523	12.24814101	18.11450506	12.26588561
RPLP0P6	13.29444389	14.80196835	14.74428214	11.7236907	12.39145703	11.33220642	12.61395517	12.12969968	12.00890231
RPLP1	18.66679788	19.51023931	19.46837974	13.8988926	12.52425049	12.89660222	12.73312769	11.66950955	11.32628186
RPLP2	18.86041168	18.70478027	18.74252757	15.34122163	14.62922071	14.76151837	18.03374752	17.60410009	17.02743594
RPN1	17.67259501	17.53272672	17.77627429	17.77137077	17.93757684	17.92437152	15.9538644	16.36895042	14.57490292
RPN2	15.07776133	13.97623813	16.08715376	12.93981745	12.24410749	12.34907421	12.97976895	12.14622998	12.32300547

RPP14	13.43161314	12.33452821	13.4605368	12.67154093	12.1152076	12.6432177	11.82895867	12.58018976	12.28389128
RPP25L	13.62428517	10.81213553	13.60815783	11.65325942	14.10617077	12.64129002	11.73333829	12.25450156	12.85813178
RPP38	14.89310146	15.23627039	14.73337917	12.32938747	11.93975217	12.61683112	13.56838573	12.2810383	11.78899657
RPRD1A	16.62108381	16.29079407	15.77543807	17.41913496	17.64551074	17.37673377	16.41152012	12.1328208	15.9658939
RPRD1B	17.38476533	17.30577632	17.38752704	14.52152773	14.73714105	14.34021379	12.98434388	16.05652105	16.5944963
RPRD2	15.29244639	15.58151258	15.70014744	14.87500135	15.30822277	15.00658696	14.73924273	12.0356373	12.95339564
RPS10	18.59120292	18.74004819	18.81933676	19.76472622	20.17580462	20.05072582	20.67138808	21.90274031	21.35472627
RPS11	17.13235829	17.15076661	17.13353101	17.26857034	17.1596575	17.32027642	15.18452766	11.71737143	15.60940474
RPS12	16.26791495	16.32791123	16.159096	14.56602317	14.02348481	14.35683168	11.82881599	15.52520447	11.5839363
RPS13	15.72026071	15.74476566	15.65017633	16.60044603	16.6817068	17.12222707	12.39771487	12.82308293	15.11370144
RPS14	19.39893427	19.50816194	19.53011799	20.30440317	20.35344047	20.39713457	19.48394137	19.18842016	19.59825689
RPS15	16.35020728	16.53505693	16.99203176	15.38558711	18.81043393	16.81104802	13.0999524	13.168339	11.56466171
RPS15A	16.81623642	17.00950813	17.0321655	16.48106962	16.73650265	16.77994744	16.3386299	16.4915328	16.76945156
RPS16	18.4319399	18.43285752	18.49015751	17.33215866	16.30172644	17.46154193	17.29960379	17.66912215	17.22391908
RPS17	19.6363396	19.1317415	19.32781384	16.25950365	15.83394296	12.56913107	11.70914995	12.8001133	12.61361868
RPS18	18.23548447	18.12580297	18.28520257	18.29152669	18.52043971	18.46404522	16.7989902	15.32171639	15.65401556
RPS19	17.38260561	17.24511264	17.26099043	16.90736152	16.61593448	16.38345825	12.67087262	12.95562862	15.72211325
RPS19BP1	16.88891642	16.97215787	16.20708957	17.70290167	17.55061259	17.63753711	12.22977298	12.58267365	13.26785091
RPS2	18.57860844	18.61597567	18.61306759	18.06459623	18.25827923	17.49374499	19.24312901	17.22934953	15.84391794
RPS20	18.98162043	19.84595713	19.87495143	19.45151324	19.48351823	19.5382673	19.36996743	19.70101535	19.60796352
RPS21	18.84276436	19.17188034	19.08211652	20.99641341	20.9979665	21.03669419	20.64189682	20.32936637	20.87443032
RPS23	13.64073042	14.29807336	15.22512875	14.13701234	14.93694264	14.80769832	16.93512749	17.43446683	17.54245307
RPS24	15.61693225	15.52406378	15.46357681	14.60096541	14.10058167	13.20526181	13.43874138	14.96459348	12.77942709
RPS25	18.45351094	18.34022323	18.59619951	19.47208925	18.06515198	19.81306752	17.7173534	17.03457089	12.48480253
RPS27	15.89179433	14.96785795	15.83702365	16.58592127	15.32936837	15.21460741	11.14076288	13.08857268	12.38842347
RPS27L	16.36612414	16.68562694	16.69073953	19.33477025	19.28249034	19.43675307	18.7041213	18.93793647	12.23417981
RPS28	19.90516201	20.17206047	19.86386298	18.1822278	17.77200953	18.01690952	18.27742879	16.58609974	12.51156216
RPS3	17.4956242	17.65814591	17.62780992	17.83860938	17.51233374	17.95054079	13.9257246	16.09554953	15.62673829
RPS3A	18.15592445	18.06224284	17.79555442	18.89118411	18.6355896	18.63524291	13.19721831	11.33471648	12.61650788
RPS4X	18.69766444	19.05020387	18.93999103	18.21317345	18.37305899	18.27969495	16.0495029	17.38534202	16.95038605
RPS4Y2	18.43436839	18.85239526	18.66915985	18.62657972	18.3221814	18.40532123	12.40033629	11.97157964	13.15480124
RPS5	16.25835389	16.19447336	17.03586227	16.17801798	14.85043829	15.88374893	14.39432873	15.51112351	14.91573799
RPS6	18.10341546	18.09217194	18.0051659	17.12191269	17.20654167	17.06718046	12.63266273	14.71523367	14.1685798
RPS6KA1	15.67528445	15.77860127	15.60908448	11.72113578	13.67741919	12.03202721	12.5150564	12.87395293	12.50079741
RPS6KA3	14.87228616	15.39743464	15.17563062	13.22565487	12.02682289	12.65774595	12.52983262	12.8967262	12.82817381
RPS6KA4	13.00767198	13.51160878	13.22141054	17.53002813	17.04138669	17.63018455	18.02884949	13.79994684	12.41109815
RPS6KA5	17.06897472	16.92195666	16.83640423	16.10657204	15.89644834	16.6975877	10.53239123	15.57591276	11.95838664
RPS6KA6	14.41308637	14.57303878	15.90616917	13.86720674	12.60342932	12.5473812	13.39102013	12.77047177	13.47639018
RPS6KB1	15.31460333	14.41489722	14.74381589	13.74439354	12.39808817	15.31740308	12.37297704	13.12024099	12.86483478
RPS7	17.29512143	16.60589484	16.84753999	13.91817246	14.10095767	14.13593603	12.70551842	12.7306646	13.00586581
RPS8	17.30080136	17.2908056	17.01926745	17.21508838	16.67374575	16.50909534	16.51464562	18.88590077	17.07161162
RPS9	17.68915928	17.4880175	17.59139174	16.77546752	16.43615917	15.95188443	16.44106808	17.42966003	16.0649894
RPSA	19.9057954	19.92622878	19.84267163	19.38718721	19.39259549	18.93483277	19.4369995	19.09222178	19.60238837
RPUSD3	13.7849993	11.89867347	14.24258767	12.99058705	10.90592937	11.75357868	13.07676795	13.67551884	12.48039359
RRBP1	16.6454208	16.58086698	16.65722778	18.18559417	18.28743427	18.3228192	14.86097188	16.44235309	16.43587863
RRM1	16.01023697	16.33052761	15.92171114	11.40743526	12.1038136	11.8034372	12.53963238	12.3919368	13.24849794
RRM2	15.98932964	15.84332192	16.33472537	13.38366592	12.40902637	13.44838162	12.17872059	12.79266349	11.87236849
RRM2B	15.63448393	15.54381226	15.76923848	15.61360139	15.72603516	15.13575994	10.74068912	17.63337921	12.25252438
RRP1	16.90578957	16.69884204	17.60863484	15.46730506	19.01561974	19.36198789	12.66936847	21.36140259	20.59258589
RRP12	16.00770814	16.06284661	16.10237128	16.93740612	15.11286705	17.04272032	16.67888345	12.15061946	16.9705519
RRP1B	15.74305839	15.75765694	15.61997339	11.81838023	12.76175802	11.73045187	11.39511543	13.18728767	12.21276718
RRP9	15.87800586	15.77841684	15.87405828	15.88368794	16.1423804	16.28645082	11.80151643	12.54192518	12.23409891
RRS1	16.63522868	16.09080875	16.62472023	15.76740811	16.12340667	15.97131112	12.66002788	11.72397422	12.01221337
RSBN1L	13.35943421	12.9258634	20.94348427	11.96517423	11.45774647	13.08306034	12.84477014	13.06467051	12.37611835
RSF1	13.92377765	14.71651851	14.35820958	12.68091501	14.99585011	14.22937763	12.95274683	12.74813854	12.60949551
RSL1D1	16.72407542	16.62823342	16.77689124	15.94272642	15.7876395	15.38703762	15.81440172	15.23279853	14.95269405
RSPH10B2	16.73455028	14.31100636	17.24300014	11.40271887	11.96607175	12.48185645	13.24642536	13.27511974	11.84715924
RSRC1	11.4839654	16.92899421	16.63400117	12.50588664	12.31223115	12.09396551	13.15594166	12.68314239	11.56498792
RSRC2	15.17042216	15.20258403	15.89899466	16.10220742	15.10006469	15.88033831	12.71536694	13.78751158	13.63115417
RSU1	13.97273899	13.47085453	14.0357242	12.8058433	12.48846438	11.30360959	12.5814501	12.21870625	12.60184278
RTCA	14.77890004	12.12606485	14.73340265	13.05739795	12.53276715	12.76018645	11.50014173	12.76050752	11.92168094
RTCB	17.54454321	17.49947258	17.36321866	18.03434494	17.95354864	17.91737995	17.60939038	16.94916506	15.84576233
RTF1	15.59747963	15.25503344	15.47873286	12.27498013	12.51734413	12.66902119	15.89679773	15.84035118	12.67086543

RTF2	14.82071326	14.69375989	14.6932048	12.20022193	12.77820285	16.10138178	13.10854323	11.58572041	13.43102477
RTN3	16.9800553	16.6138369	16.71169246	11.96176782	18.58960822	11.08961188	20.90023632	20.72814508	20.76144847
RTN4	19.18569365	19.59284223	19.27276216	19.61502144	19.43817743	19.28937475	22.19373166	21.73878409	21.97319504
RTRAF	15.98053436	16.59741446	15.69182162	12.99189441	15.32310595	12.08356412	12.0156858	12.3092915	12.68234129
RUFY1	15.52594667	15.14266823	16.22473898	13.21023234	15.67733668	11.9976431	17.6858537	18.04861354	18.28545873
RUNX1	13.59911641	15.60875849	14.82209449	13.27245729	12.04241481	13.46464229	11.63549463	12.51990645	12.04596264
RUVBL1	18.13911653	18.21501675	18.16354562	17.36579436	17.5030867	17.49455307	17.23905701	17.703114	17.8368965
RUVBL2	17.47807654	17.42766615	17.51323129	17.5349331	17.65538205	17.79063636	18.52512099	17.41365275	17.76345321
RXRB	14.13054275	12.33378326	14.94333453	14.02767935	13.02256991	13.18067476	12.81793627	12.24463742	13.59260375
S100A10	15.21606528	15.08403792	15.26422264	18.76705024	17.93535071	18.85888825	19.81492443	19.30481793	12.13413175
S100A11	14.77408278	14.22690847	14.60083899	20.48496502	20.39444813	20.49089347	17.72294979	21.26550273	17.6692311
S100A4	15.62225563	15.51457395	15.63789577	13.65705338	12.40546107	12.52467192	11.92787713	11.7612623	11.73349243
S100A6	17.71696468	17.87378645	17.80774828	17.72276411	17.82543566	17.79358952	17.60040761	17.12401652	16.80084042
S100A8	14.94594912	15.15667324	11.74893231	17.28605661	11.90690379	17.79513665	11.80348319	13.12308857	12.63674931
S100A9	12.66151821	16.53724554	16.00364074	18.42118573	18.25983538	18.53775251	22.27500124	12.10414381	22.52895826
SAA4	15.39858542	15.69698287	15.64423025	12.62500625	11.99916047	12.7605002	12.54455447	12.65966568	13.24782366
SAAL1	12.32688562	11.6208329	12.7302522	13.22402168	12.70979315	12.29679016	12.91524232	11.9294378	11.95007081
SACM1L	15.09923477	15.48775168	15.5109613	16.8803168	16.81594124	15.93262009	12.36865066	16.98023885	12.1646967
SACS	11.64898594	14.74185867	12.9884806	12.96856981	13.23408088	12.0769258	12.99753714	12.52001354	12.10656046
SAE1	17.65936956	17.78365722	17.78953278	16.31908488	15.3677405	16.64205543	13.81182902	14.21776382	12.73684415
SAFB	16.71180307	17.14619101	17.02261777	16.61834682	16.87039388	16.85064086	12.70182292	16.45983062	15.53471172
SAFB2	16.99798668	16.65839926	16.81672478	15.7670811	15.2858519	15.86084946	13.45708858	15.53217938	11.57201369
SALL2	13.21433256	11.50735655	12.76660154	12.08606184	11.84532045	13.0193766	12.51741081	12.67338109	12.46905284
SAMD1	16.03221091	16.29024875	16.03066837	16.32772603	15.78990898	15.87173834	16.44283524	13.36547042	16.36995912
SAMD4B	15.49100267	15.39757844	15.38135822	13.88675148	11.92968687	11.88674058	11.76198842	12.2261427	12.06081856
SAMD9L	12.81952678	12.40238837	13.02688979	11.36334242	11.24318568	11.96439747	12.74027745	11.75994936	12.70632587
SAMHD1	15.09499231	14.9225344	15.08289567	14.30260139	14.42143866	14.20417848	12.33074094	11.97989374	15.61005474
SAMM50	14.69838008	14.70144829	15.2199932	12.3003458	12.93739747	11.66120724	12.44306792	12.25048722	12.99773878
SAP130	16.19368435	15.84536677	16.82069031	16.37321087	17.68536572	17.74279195	11.85641843	15.89264039	16.42479914
SAP18	15.99031579	15.86630973	16.60799453	16.92067339	16.72086038	16.32910855	12.66413179	12.43085194	16.36681841
SAPCD2	14.75459737	14.70805277	14.91047551	11.01880886	11.77735297	11.45468136	12.11278022	12.07527589	12.01685754
SAR1A	14.80377915	14.12843377	15.02580571	12.43425469	12.04849902	11.76207553	12.52110954	12.20453341	11.8263338
SAR1B	15.22836394	16.18727584	15.51351754	15.21850801	15.48764733	15.76036477	14.40313213	11.79026366	11.37608251
SARDH	14.7266344	14.18759436	14.27227911	12.61836473	12.74996087	11.981613	12.5250191	12.31708516	11.11225299
SARG	14.11263329	14.34862822	14.58859242	18.69504167	18.56870457	18.65151387	20.80471208	21.08645157	21.34314643
SARM1	15.32193581	13.22134499	14.10849584	11.93353562	12.54169223	12.83655837	11.69792441	11.74316939	13.32199313
SARNP	17.85736948	18.18575223	18.00561716	18.7908961	18.72251136	19.24941239	18.35421294	17.59705666	18.79327433
SARS1	17.16255599	16.76400624	17.04939135	15.97418976	16.18630905	15.92918139	15.90111452	15.23362982	15.72671623
SARS2	16.44864203	16.19677238	16.52986697	16.33507207	15.45690896	13.93691698	16.97532568	11.58810054	11.84321443
SART1	15.80647331	16.08593991	16.08658392	17.1120924	17.21247451	17.16838077	12.02477616	19.95374289	16.38016948
SART3	17.04392178	17.15695306	17.46997084	19.08863543	18.85135729	18.9602841	17.62811144	17.42040771	17.58450392
SASH1	15.2604613	16.04832926	11.37033734	12.21921485	12.39957662	12.39018984	12.43220958	11.19728548	12.26080765
SBDS	16.08325364	15.31583865	14.69073952	17.13243052	17.2397904	12.95012169	13.16153666	17.53649658	11.54955386
SBF1	14.11127098	12.82619663	15.36564814	11.86304042	13.05247118	11.37620246	18.61656293	11.94315351	12.63000409
SBNO1	13.61812876	14.55023226	14.49590185	12.77478329	12.93029737	12.38734182	11.62463965	11.48237924	12.57470794
SBNO2	14.4031146	13.17595654	22.87650904	24.47572011	16.16981309	24.40644011	24.58013187	24.72028944	12.48629
SCAF11	13.73956646	13.6812228	14.10448833	14.85329743	14.85063169	15.46697045	18.48543142	12.87483354	12.6773585
SCAF4	14.89305579	15.49002514	15.54453486	12.4179783	12.39680137	14.41830151	12.16497496	12.62858005	12.13133316
SCAF8	15.02073823	15.26667782	15.24258437	15.04344955	13.30219323	14.80137774	13.7337033	12.61802356	12.52346257
SCAMP1	15.10344224	14.6185038	15.74302292	14.66087655	13.5143287	11.8351092	13.31876814	12.53693993	12.91123855
SCAMP2	14.80729409	15.71999289	15.07691575	15.41189752	13.69420878	12.40938928	17.63051173	11.83519047	11.58139928
SCAMP3	16.27864544	16.6994804	16.49393052	17.12307641	17.1623155	17.62412726	17.85677322	12.49279458	17.44160337
SCARB2	16.5530944	15.95465203	16.47199485	18.57139368	19.17015519	18.73549263	16.61971589	13.10019874	11.74562896
SCCPDH	17.34383639	17.2970883	17.39016166	17.8704965	17.90831162	17.8255813	12.01467978	11.45533846	12.75805989
SCD5	16.9269359	17.02895669	16.99803121	17.93557067	11.06318664	17.79143974	12.49091316	12.00822642	11.62936384
SCFD1	15.1130391	15.84934266	15.46269776	15.46667554	15.90720176	15.53975891	12.23656735	14.55134566	12.43625803
SCG2	14.66728939	13.94443033	13.90610666	11.40304977	12.85882412	13.08598945	12.05002681	12.71852003	12.02112076
SCGN	14.82204216	15.62097966	15.71265532	16.75158029	17.05926229	17.00953565	10.97157664	12.72593137	15.789824
SCIN	18.10820532	18.04018665	18.0829378	17.27751295	17.65815947	17.82708693	11.92404205	12.57857474	12.15551757
SCLY	17.18057633	16.90634676	17.15606732	16.08604105	15.99309045	16.08546065	15.77612655	12.38954148	12.89625736
SCML2	15.66882221	15.52144567	15.45455623	12.38131405	13.37189951	13.38085	11.75316942	12.81066375	10.92008733
SCO1	17.75182201	17.75593125	17.72159203	17.69178568	17.38873458	17.47321743	17.52685909	17.03241142	19.27086976
SCOC	15.44120312	11.15584508	13.92288551	13.53172816	13.33880171	12.6695594	13.76171144	12.44784558	12.3361454

SCP2	14.99138126	15.1408905	15.41291231	17.59113818	14.72808794	17.3547606	15.72488254	16.47641611	15.48926597
SCPEP1	16.37522435	16.4747945	16.33636727	15.01134254	14.50423429	14.94142273	11.67578074	12.06784556	12.78648766
SCRIB	16.85853076	16.87178351	17.08724454	15.80401195	15.57169572	15.6159562	13.94710318	15.07718525	14.7665261
SCRN1	15.77825107	15.80422322	15.54960777	15.95276335	16.06025613	13.5997316	16.74834725	16.7576769	16.72207856
SCYL1	14.53760109	15.38314654	14.94787058	14.76335837	14.84722501	13.96268028	14.16084607	12.42234605	12.35813772
SCYL2	15.02021856	15.76513009	15.34172286	13.65661162	12.48843863	12.80052283	12.13628379	11.1354767	11.74312319
SDAD1	14.10859307	15.53110207	14.38343255	12.29818526	14.31591546	12.06204498	12.18297169	12.3901747	12.19131321
SDC1	16.38698444	16.01631074	16.54260166	12.01282624	12.92988243	15.61703258	12.35519431	11.83002435	12.31518899
SDCBP	15.86845442	14.57993032	15.62345829	12.20618185	11.62291519	13.86009244	12.24570849	12.03465725	12.50831918
SDE2	15.96008219	16.15661298	16.11825937	15.57958607	16.58315602	16.59187921	11.8906434	12.88183968	12.50807582
SDF2L1	18.16595526	17.30657337	18.28880576	18.13609045	16.8775276	17.89710018	12.24238671	19.12043617	19.29693378
SDF4	14.58281419	13.36663999	14.82688997	17.46976786	17.34391914	17.6044783	11.33137034	12.25915527	11.79686617
SDHA	16.40468388	16.16267191	16.61021603	18.38154362	18.06670202	18.62849171	17.07716987	17.50194093	14.67038262
SDHAF2	17.62490998	17.58018306	16.75946915	14.33265784	12.69633281	11.76910244	12.04596731	11.93078088	12.35922305
SDHB	15.7974217	16.04153191	16.06759411	16.6037254	16.60677213	15.75861806	11.81509612	17.36298067	16.44543944
SDK2	13.98969809	14.2046558	14.39015173	11.69235912	12.90293601	11.92956109	10.62268603	12.70979062	12.87459006
SDSL	15.38573294	16.11545785	15.96915315	14.69968522	13.76644888	13.40527969	13.24813095	12.59451944	11.30919252
SEC11A	15.23754275	14.87869166	15.01919383	12.91420757	13.81990452	13.22885847	11.92055263	13.245687	11.67438303
SEC13	16.11984385	16.75116534	16.80891745	15.95754082	15.88530847	11.40506741	13.45225731	11.40803217	13.79133628
SEC16A	16.39727167	16.45463181	16.36037283	19.45604791	19.22160062	19.24509	19.37172709	19.95512463	19.91994277
SEC22B	18.37079137	18.37789966	18.44572418	19.97577447	19.95230695	19.84834189	20.95564314	21.33955824	21.20816315
SEC23A	16.96366344	15.30798201	15.45461559	17.73444354	14.65620316	18.62633322	12.47273363	13.56141515	19.22536128
SEC23B	16.50290573	16.3099128	16.5748812	17.8254738	16.54779148	16.65784038	15.64834891	15.51513843	15.52933469
SEC23IP	15.68159323	15.33561446	15.49380297	10.99295801	12.66511292	12.41912285	12.43653316	12.59774673	11.89975891
SEC24B	16.40518173	16.05482802	16.22849307	18.88225805	19.58705752	19.48350274	12.93172823	12.68061616	12.27950303
SEC24C	16.4906248	16.25814846	16.42994683	17.49166909	17.85328971	17.86896418	17.39731516	17.07451708	14.21410774
SEC31A	16.29038576	15.48791333	16.19421496	17.31818335	16.49746015	17.114163	12.38158553	16.34698448	12.61469859
SEC61B	16.86509885	16.88391696	17.12072737	17.97636059	18.11702522	18.37992032	17.84402548	11.98979681	13.20501056
SEC63	14.01494561	15.68022969	15.55059001	11.79206012	10.9509567	11.69196155	12.23358596	12.69791691	13.73484035
SEH1L	16.25125582	15.6297864	15.69381443	17.2618441	13.69697175	17.10903324	12.52587363	11.82361018	12.81170223
SEL1L	15.36462857	15.47782141	15.33580536	16.78795646	17.78637607	17.74184267	11.68465323	12.41115651	12.53238066
SELENBP	16.64261526	16.39158003	16.53662375	19.56727264	19.44570241	19.37780514	16.62964767	16.5745571	15.9367956
SELENOH	16.27630738	16.24082067	16.53573868	16.25666943	16.05598371	16.46130198	12.01293438	11.96216375	11.64476069
SELENOO	12.20641497	13.60304999	12.1180615	12.75472485	12.43603984	11.47057699	11.37047808	10.88944098	13.34631653
SEMA4C	13.57924661	14.76464389	15.23391505	11.42116828	12.52150763	13.33347903	12.32797039	13.44981597	12.192118
SENP3	14.94828705	15.82646937	15.12025446	16.01361219	16.18299826	17.09004661	12.08527299	11.45098416	12.1446305
SENP8	13.11175887	12.86384268	13.8446427	12.36463673	12.24046017	11.60397434	12.61037172	13.45279189	11.22121647
SEPHS1	17.13581131	17.07106787	17.18427699	15.72711515	15.43868621	15.59456669	15.45598685	15.98813032	15.95848624
SEPHS2	15.16822562	15.14428274	15.0572787	17.24344586	17.30946115	17.37459774	17.48101938	17.07601947	12.25909446
SEPTIN10	17.15479445	17.0034022	17.16596188	13.50181034	12.54895544	11.78192535	13.16528147	12.15082621	12.06797176
SEPTIN11	17.2071158	17.50545642	17.64484219	17.98234227	17.72137869	18.10487503	12.0682193	12.60712655	12.19135127
SEPTIN14	16.33483358	16.02732639	16.0924718	15.67515292	15.34892692	15.52664265	13.15817541	12.35444556	11.84502213
SEPTIN2	17.44033299	17.45346278	17.33885159	16.11345888	16.35877917	16.06399995	12.64481115	12.66757406	12.51255599
SEPTIN5	14.63872779	16.09777221	15.93844295	13.12063526	11.41359923	11.44990913	12.37205586	12.70676296	11.6903677
SEPTIN6	14.68593823	14.99935582	14.92305026	14.20880895	12.74974808	12.27388492	11.91140249	12.42412337	11.16772436
SEPTIN7	17.22562167	17.56605139	17.38611112	18.33472862	18.53810848	18.56161347	12.81138577	15.41547716	11.56846594
SEPTIN8	15.98039772	15.61535256	16.08436339	17.73616806	18.10763711	17.74029793	17.82288666	17.7599627	16.96510023
SEPTIN9	18.11728322	18.06226891	18.36304238	17.49062812	17.4595423	17.66390603	18.37288674	18.11892149	18.66838294
SERBP1	17.66806029	17.81658193	17.91788889	19.12416517	18.94231104	19.49698095	15.40008531	19.28751966	19.1363372
SERF2	14.34888778	15.16620434	15.04157824	15.72479894	15.71781477	15.98167198	12.47385331	13.30746978	12.86267752
SERPINA1	17.52274461	17.56272408	17.56288986	14.14385754	15.51296836	14.46123039	14.54326205	15.30931662	11.89091743
SERPINA1	14.94362628	12.75840349	14.83751536	16.35477777	17.89535507	17.48661307	13.71192307	20.04356461	20.23602022
SERPINA2	18.69234692	18.69814772	17.47885661	16.92193354	17.67473511	17.45974999	13.38178913	11.62221565	13.69562121
SERPINA3	17.97265627	18.02514415	18.12678292	16.60422665	15.11455502	16.84991036	12.36141219	17.01020136	14.41639654
SERPINA7	18.98633388	19.133159	18.71707797	13.33086793	13.38284958	12.30836677	12.37229891	12.06036218	11.91804448
SERPINB1	15.53265077	15.55117	15.93259744	14.86461129	14.29987262	14.6271511	12.11612366	11.65375093	12.77581202
SERPINB1	15.79068419	15.48248263	15.29533911	12.63615541	13.38871731	12.61902248	12.28036089	11.92302663	12.05479433
SERPINB6	16.57517383	16.6538972	16.43572898	16.89266154	16.84205154	16.95796069	18.18719654	16.8577388	18.16445692
SERPING1	15.75354124	15.89975391	15.8106757	11.74574833	12.78664265	12.64434643	18.54104011	17.93720765	18.13641123
SERPINH1	18.17151269	17.93391553	17.92352187	16.98867241	16.4975614	16.5520585	13.4222629	16.98299283	12.02766694
SET	17.72873901	17.89069563	17.6547201	16.78900829	16.75459637	16.76397117	12.38284994	12.69183674	12.91707081
SETD3	16.28945286	15.31068147	15.46311661	12.34826542	12.53604305	12.43791918	13.07706528	12.12848868	12.01091346
SETSIP	20.10641044	20.03482779	20.01906635	19.8863932	19.92774024	20.12146026	15.15730619	18.05163234	17.69923679

SEZ6L2	14.05686721	16.66872158	15.39177829	15.10350118	18.29358655	16.94884944	13.0041358	12.1960295	11.78334209
SF1	17.09122652	16.94235269	16.85706618	17.87800156	18.20716414	17.93599185	15.88924337	17.54355691	17.20453515
SF3A1	17.15338949	17.16994491	17.18046565	16.6130753	16.5565739	16.8228915	15.95014893	15.55950268	16.48334315
SF3A2	17.18150085	17.32954878	17.1145607	19.35123268	19.79732514	19.82051478	19.79830164	20.6897848	20.56137885
SF3A3	15.80565323	15.44579197	15.88072932	13.94227379	14.60376839	12.78274051	12.35433235	14.66818301	12.64845232
SF3B1	16.71512121	16.84482902	16.82045354	16.78294086	16.81220714	17.05048713	14.60096038	15.31539267	16.36785307
SF3B2	18.24685592	18.31742531	18.36218175	18.56977394	18.47285697	18.73758785	18.23334009	17.00074199	18.4084416
SF3B3	16.66831033	16.75697172	16.52632413	16.73747388	16.69582129	16.74030439	16.31251118	16.52337036	16.22385621
SF3B4	15.40802691	15.3895559	15.92033639	14.25311826	16.45810617	12.00196024	14.0250394	11.86595196	12.23812201
SF3B5	15.27380266	16.30107764	16.55727673	16.29656895	15.01776112	14.90099385	12.45964905	11.86754786	12.98291926
SF3B6	16.19144338	15.87604261	16.06182931	17.43864741	17.64873865	17.72389219	12.00610274	13.42363119	11.86906277
SFI1	13.30068173	13.83462764	14.17170157	12.17823791	12.30649319	12.65184803	11.69361376	12.19725623	12.90367515
SFN	22.04112183	22.13353952	21.8614997	21.80085012	22.12576284	21.77565046	19.57039216	20.18490072	20.23100567
SFPQ	19.54717203	19.6498406	19.5668609	19.90659996	20.0549024	20.09027851	19.85875747	19.74110576	19.82750767
SFT2D3	15.77568678	12.72669911	15.78348603	11.87857566	11.75531313	12.45666663	12.02713782	11.8445419	13.21350353
SFXN1	18.90440367	18.87848776	18.81531266	16.94141049	16.59518938	16.64871361	17.12441623	16.90962323	14.11461787
SFXN3	19.44784356	19.40851953	19.2435104	17.11428135	17.84381026	17.99183506	12.44048274	12.12432986	12.16454444
SGF29	14.05392871	13.50512067	13.65642008	13.51741982	12.02163455	12.79794281	11.3183749	12.76823913	12.83936859
SGPL1	15.88893442	15.87531313	16.2358802	15.27780347	13.59319897	15.03411979	11.34636972	11.91164119	13.01620343
SGSH	14.77249827	15.14981488	15.01162223	13.76939638	14.01860809	13.55742106	12.64546969	11.27007386	12.48207321
SGTA	15.49217167	15.49742715	15.76655892	13.55949342	13.08204647	15.58301413	12.14919348	12.87151969	11.85803599
SH3BGRL	17.25823363	17.28646366	17.09549812	15.33294801	15.15179455	15.02659276	12.72867622	13.01784685	12.4147263
SH3BGRL	20.07864511	20.2638586	20.08100163	19.43432916	18.85964434	19.04717024	17.67176395	17.45814916	16.79403474
SH3GL1	15.71356412	15.81184228	15.65343812	17.220926	17.48045945	17.7192414	18.70280394	19.05204685	18.51864049
SH3GL2	17.13050954	17.50849587	17.41957861	12.4745691	15.83243078	12.07452484	11.06542591	12.94899366	11.70572145
SH3GLB1	16.34802002	15.76233601	16.10529357	15.93387306	15.24430124	15.53946184	13.03556725	12.44752702	15.62797665
SH3GLB2	15.84630792	15.84985673	15.76392692	17.29477839	17.65141349	17.64325377	14.55158513	12.76429328	12.53289586
SH3PXD2l	14.739395	15.22064481	15.62468067	15.05126453	14.74151814	14.63539926	16.23594856	16.1081448	16.23964766
SHANK2	14.83039485	14.94422788	13.38277388	11.19733214	12.08128417	12.67094095	12.66359269	12.62372046	12.77649749
SHFL	13.96499438	12.02661044	13.62704015	13.1576601	12.66183157	13.42713763	12.03956111	12.2889032	12.51226251
SHMT1	17.25422291	17.08287862	17.18056461	16.92071083	17.18257926	17.44663186	17.00259073	11.87793445	11.71738496
SHMT2	17.88472585	17.97064047	17.90675086	17.53267664	17.59367233	17.58103173	18.55001613	17.31548093	16.09854196
SHPK	15.69130611	15.37521015	15.32436487	15.27461657	14.99629117	13.44034301	12.36160403	13.21202225	12.47411747
SHTN1	16.84904235	17.17648786	16.98917319	16.46633877	16.80330481	16.48114826	12.48239624	12.82477092	11.98553269
SIKE1	15.63565428	11.97665234	16.02327218	11.45912413	11.58461704	12.54740206	22.87178724	12.9836317	22.51141091
SIN3A	16.39818474	16.31173801	16.32844415	16.67326633	16.51248774	16.87265576	15.88464006	15.12989323	17.13957558
SIN3B	14.33716629	14.14040306	12.89125052	14.75684758	14.2841371	11.7965702	12.06728346	13.22115546	12.52443558
SIPA1L2	14.93970867	14.66509805	14.06832046	14.10418182	10.85992568	12.24497819	12.84818973	13.31533375	12.91553036
SIRT1	13.48816764	13.93276759	14.2839995	12.1450615	12.22390941	12.59036397	12.88820529	12.24376314	13.11768419
SIRT2	13.36200578	12.33552131	15.06669963	13.7448459	12.78611575	12.21411241	12.58290056	12.34101192	11.21216051
SIRT5	16.04139057	15.59615034	15.12538229	14.4624354	12.40087321	14.7398832	13.39902944	12.46241931	11.75302316
SIRT6	15.63317786	15.72197334	15.80296417	11.79234367	11.42121186	12.52094122	11.48918743	12.43313473	12.25650098
SIX5	19.98991546	20.19139567	20.17234272	20.28186792	20.46740168	20.87241151	13.00379095	11.47159262	13.02689168
SKIV2L	15.68463836	14.1559319	15.73774088	13.22826327	12.60247265	11.45803672	12.6770576	12.27316779	12.08003352
SKOR1	18.70396976	18.99187239	18.86854505	19.62360962	19.44039749	19.60115203	13.72502248	12.3622393	13.6098253
SKP1	16.64064687	16.17920095	16.2502814	13.8837016	12.21663283	12.1362415	12.30166882	12.5277181	12.21841621
SLAIN2	15.00371925	16.00299673	15.19136036	17.85271603	17.69790073	17.8931252	18.87176979	18.31184008	18.42470216
SLC12A2	13.06441192	12.55965919	13.39520777	16.98630749	16.82887246	15.08459335	11.87253775	17.75602474	12.38634014
SLC12A9	14.60726458	15.00837916	14.00471138	12.63766309	12.85141624	11.83056298	12.5771267	12.43529757	11.55957458
SLC16A1	16.15935865	16.86444047	16.86859851	19.15138286	18.92132415	19.5437658	12.46944767	12.28623968	12.37980165
SLC1A5	17.19664919	17.16797658	16.84045993	15.90296948	15.34389314	15.57931206	13.26845004	17.33044818	17.1156024
SLC25A1	17.14659431	17.39532549	16.19773222	16.98002285	16.51509603	16.89319596	13.67416449	12.8564555	11.47898487
SLC25A10	16.78839398	15.52444768	16.66690151	15.6596645	20.08282958	15.21472632	12.05221479	15.34815695	12.75685122
SLC25A11	16.22955938	15.95096506	16.29157844	17.83022873	17.89280334	16.76838858	18.18497703	12.18013026	17.30315236
SLC25A12	16.23620861	16.30783551	16.32935082	12.96649509	12.44938779	12.81434013	12.73450462	12.28949762	12.06251783
SLC25A13	17.8139407	17.78208661	17.76800666	15.6721389	15.2976091	15.94949097	16.62034067	15.17134117	16.39280331
SLC25A18	14.16424912	14.25251531	14.34375493	17.43628221	17.58554692	17.93731881	17.21988846	17.42225691	17.62544719
SLC25A24	16.8139426	16.84515273	16.97905525	14.83040591	14.93081819	13.63474659	12.70652291	12.23202022	12.61807043
SLC25A25	13.89183514	13.62632254	14.56233817	15.67567897	14.16800351	15.69176847	20.86410861	20.78160908	21.04907132
SLC25A3	19.18962786	19.36800098	19.36410213	19.11720109	19.03382902	19.27291261	18.9509544	18.48169479	18.89180311
SLC25A35	13.41496887	12.53552272	12.52664462	11.45751263	12.63442657	12.62883254	12.74856252	11.76265825	13.38860402
SLC25A4	17.7014719	18.76259515	17.85194594	17.74403725	17.70601261	17.68581333	17.80149211	17.42959525	17.50938717
SLC25A5	17.25104775	17.35758817	17.47304542	17.06746283	17.02725702	17.0878044	12.49328128	15.36223427	11.99320102

SLC25A6	17.71199076	18.28516221	17.81980136	14.62463677	14.89050513	14.54123367	16.98086147	12.16519734	11.97831659
SLC27A1	14.86309175	13.47862182	14.9518307	12.49253347	13.06812234	11.66591484	11.98225602	12.15902558	12.52592202
SLC27A3	14.94785369	14.9162057	14.86900476	12.08653471	11.89692979	15.71107087	11.36878271	12.17435042	12.52548204
SLC27A4	15.54301691	15.87378828	15.14677762	12.72062443	11.8453901	12.4675712	11.66066286	12.59797782	14.9923855
SLC2A1	15.83042551	16.00524046	15.52952494	14.13082007	14.24742505	12.10254674	11.81801952	11.77584628	11.82697939
SLC35B2	16.71414314	15.74317145	16.49814283	17.57183708	18.60462862	18.40006225	13.53418897	11.13100134	11.72772856
SLC38A10	14.70685301	14.46257733	14.81115051	12.55577151	16.50062693	16.08256761	12.89198825	17.2570931	12.04316739
SLC3A2	13.9035161	15.28433963	14.04815779	11.77819831	11.72773719	12.53979071	18.22821885	16.73295612	17.69250111
SLC44A1	14.60163397	14.97417995	14.64627737	19.22661509	19.47103575	19.36850278	11.89931099	13.15991745	12.49964804
SLC44A2	11.54737229	13.95151914	14.18988921	17.18464642	17.04490858	16.72947785	12.83292691	12.72813587	12.10374993
SLC4A1	15.86288522	16.1765884	16.31622642	14.59011654	14.38435413	11.22384452	12.06612532	12.71198374	12.39448226
SLC4A1AI	15.97786368	16.33199579	16.34438809	15.65288376	15.82276486	15.80014552	13.57642817	16.25976741	12.30085638
SLC4A2	13.74060228	11.61432947	11.90364282	19.11911207	19.21882533	19.32696888	12.16205381	19.51699713	12.96905968
SLC4A7	15.67703808	15.48085195	10.62373283	12.10941597	11.66142274	13.21877601	11.60193491	12.26118548	13.42660868
SLC9A1	15.5373882	14.71532443	14.81378879	12.21869726	12.46724251	12.0751649	11.50100537	11.45238925	11.82408329
SLC9A3R1	17.81463944	17.80427226	17.81623286	18.11484776	18.00680578	18.4886542	16.89059265	15.06708862	12.69816115
SLC9A3R2	14.28797089	15.2864207	14.3258391	18.00289689	17.79709769	17.94011529	17.57929309	17.26936376	16.67313786
SLC9A6	16.42294901	16.26219198	12.7100584	12.27625861	12.21756984	12.25373777	12.76831447	12.66044867	11.76298061
SLIRP	19.67441363	19.59487944	19.66331831	19.62435936	19.86931633	19.9439225	18.69572611	18.98484462	19.27911217
SLITRK4	15.80843616	12.5439827	13.07769977	12.32052541	12.2879827	12.18926522	11.99865839	13.49039697	13.16525005
SLTM	16.26063388	16.43286727	16.51676192	16.36382792	16.67181567	16.41321093	14.58486128	14.57770653	14.8306357
SLX4IP	15.38524596	16.18355459	13.25958113	12.75071003	12.21695236	12.30335812	12.74779224	11.99778855	12.27869035
SMAD1	15.23644005	15.24055206	18.77983688	15.44567743	11.77774865	14.44307458	13.84783401	12.08628139	12.60703702
SMAD9	16.83137068	17.3780446	17.21181723	16.52056062	11.69462739	16.132017	18.10405488	12.27636212	13.50638224
SMAP	16.66990221	16.56715157	16.52917427	15.65162085	16.68733784	16.10604469	13.26334493	12.18689785	11.27671941
SMAP2	15.82598773	15.96623959	16.28149599	13.61796149	11.60324387	12.39059585	13.19674369	11.54562059	12.20975734
SMARCA1	15.94635476	16.0870819	16.40364544	14.71357489	13.81632845	14.76024838	11.8601089	11.38812067	12.68304906
SMARCA2	16.94596799	17.14695956	16.49767555	15.73113682	15.91666049	15.55379974	12.96652678	11.64466227	12.30969487
SMARCA4	16.20529557	16.32204171	16.30500618	14.21415648	12.61639239	13.92575522	13.24431344	12.8139733	13.41929489
SMARCA5	16.04563714	16.28089429	16.45741511	14.43588811	14.16485884	14.83958521	13.93920717	12.19953464	12.51034527
SMARCB1	16.99481317	17.46728434	17.06538176	16.51500081	15.53740655	15.29583265	13.00338943	12.83684453	11.91371359
SMARCC1	16.1698557	16.26254897	16.42860471	11.69539951	12.52276986	12.63999643	11.74484796	12.34113912	13.52139844
SMARCC2	16.0599056	16.12872408	16.12734778	12.90642167	15.44406636	15.5449542	11.54934806	12.13421092	11.91223862
SMARCD1	14.83453885	15.39921428	14.83976417	13.24190147	12.96238388	12.11593607	11.7330796	10.66818416	12.04588341
SMARCD2	17.08104427	16.98236173	17.17628668	15.70048862	15.6794334	15.76500268	11.89908693	12.31153921	11.58417688
SMARCE1	16.95667791	16.82528461	16.85696318	15.80685319	16.06046528	15.55653769	12.90191537	15.34230873	11.10108302
SMC1A	16.97521246	16.88213782	17.10606704	16.84605838	16.79107368	17.15267164	16.80371308	16.55795469	15.4136341
SMC2	16.05033681	16.0770788	15.91702991	11.97044039	11.53851228	11.32706046	12.58173023	12.50737293	12.37821161
SMC3	16.71807754	16.71242488	16.83741422	15.96664141	16.5902205	16.05168731	12.2212913	12.62470096	14.74309189
SMC4	14.54965889	15.28428447	16.48199249	13.3283073	11.98757418	11.34873598	12.17265366	11.72602825	13.08188078
SMC5	14.28199783	14.69046726	14.63143253	13.94592719	14.30372637	13.03109908	12.02501401	12.39447077	12.13408223
SMCHD1	15.34456046	15.30756495	15.45684876	13.42322396	13.34344748	13.07055871	12.04991222	10.9297052	12.96743006
SMG9	14.79130396	14.55999013	14.73005212	12.37404626	15.16166682	15.13486252	17.49953583	11.5345778	11.75536983
SMN1	15.60092111	15.15613987	14.39953592	17.31419632	17.31957467	14.2069707	18.76350023	18.53499205	18.88778824
SMNDC1	17.42054059	17.47735349	17.44677336	17.19898937	19.16955647	19.02216052	13.80429235	12.029076	18.53970502
SMPD3	13.03550984	12.8542927	15.38335772	15.61166458	15.6846619	13.42112814	12.3048553	13.10946121	11.38017834
SMPD4	14.08210369	13.33452821	13.7911938	11.40967805	12.0647324	13.89412573	12.15452156	12.34366856	12.06559273
SMPDL3B	15.28732465	15.62557392	15.56613197	12.81503049	11.23864338	12.20553135	12.33968732	12.40104776	12.34061947
SMS	16.31540691	16.4020977	16.42853218	17.06301377	16.5072322	16.82998312	19.60294715	19.38010925	20.04427722
SMU1	17.01120217	16.40029566	17.25918113	17.54230106	17.5144095	15.47585692	17.34097872	17.21372614	11.20002973
SMYD3	15.27114926	14.7471987	15.23288544	15.26137762	12.92351732	11.70645366	12.27651035	17.45883487	12.43631158
SNAP23	15.54440301	15.37820546	15.40286951	17.41256041	17.43918144	17.51112469	12.46020349	17.82294872	11.90971995
SNAP25	17.09671006	17.42930085	17.06352723	16.93933782	16.33612647	12.98142044	13.29933931	13.70202808	17.4449955
SNAP29	14.84021496	15.70868172	14.78643193	12.4958264	17.07661571	15.64981866	12.16116075	12.37248006	12.13018365
SNCB	14.41894407	14.36166156	13.5353189	18.55251594	18.72354999	18.43726879	12.07263349	12.46158522	12.54062401
SND1	17.00529582	17.09174171	17.24093794	18.1141865	18.19958446	18.15626675	17.60426456	16.95357558	18.10597458
SNF8	14.46188403	14.76691932	12.89563732	12.38981728	11.87054548	12.27755054	11.07998571	12.48068512	12.20368067
SNRNP20(	16.36193055	16.29923064	16.59161986	16.13017368	16.16857532	16.03329381	13.85956084	12.24021179	11.57552848
SNRNP40	14.95368376	15.58864835	15.40506552	14.42353272	12.33690313	15.44693619	12.68387451	12.26078549	12.85777082
SNRNP70	17.45211247	17.73139179	17.57457005	17.96538422	17.52778633	18.07689435	15.70698283	15.50954531	16.01082091
SNRPA	18.07223814	18.13143197	17.95100908	17.61701948	18.65873439	18.23759844	16.56929019	16.64256256	16.65685725
SNRPA1	15.14914052	15.57259002	14.45998338	13.7866628	15.48347104	15.34799823	12.98177234	13.41955897	12.64517791
SNRPB	18.11148971	17.89411382	17.88938861	16.80650537	16.72570007	16.68138457	16.5715603	15.62870345	12.20941065

SNRPB2	16.48246653	16.94325362	16.39740015	20.53958916	19.9205684	22.24233321	11.97444296	12.13385518	12.81007485
SNRPC	15.65839209	17.0888711	17.23651072	15.36080115	15.65879655	15.30620652	13.16748687	12.4218384	12.42979853
SNRPD1	17.96422368	18.13284891	17.32117086	11.94587606	13.40027271	16.96981892	17.56096347	11.90339046	18.71580756
SNRPD2	18.12326003	17.86543347	18.02167251	18.1460016	18.78017194	18.34401743	18.16564965	15.88683931	15.48136562
SNRPD3	18.96153495	18.7152669	18.62077399	17.68299909	18.0496097	17.51626231	17.30473695	16.72790805	17.08368372
SNRPE	19.43273179	19.12496359	19.29281737	13.86327262	13.73338905	13.59029428	11.52403178	11.94112777	18.26176585
SNRPF	19.79137572	20.11463531	19.85428262	20.048792	20.24777586	20.33864276	18.11116562	12.21280124	11.02334154
SNRPG	17.7558743	17.64829935	17.49920906	18.1782381	18.01041067	18.04133746	12.59125037	15.83214181	16.68708213
SNTB1	14.86764116	14.90231489	14.72610381	14.90723144	15.01547832	14.76239669	12.98629452	12.31666671	13.64470894
SNTB2	13.93543195	14.73865802	14.14281624	15.55792082	12.61329861	15.36302714	17.61805292	11.95848949	18.3916035
SNU13	17.75960171	17.74096071	17.87507056	12.49577744	16.87244308	17.19900717	12.87892922	11.7382949	12.52735605
SNW1	16.90859734	16.64664364	16.86500905	17.14645875	16.6893083	16.53975596	11.92276803	12.09124927	11.46713605
SNX1	15.52283487	15.77615301	15.52547868	13.17069134	14.51000084	12.87958132	13.49572822	11.51681919	11.07502882
SNX11	14.66978225	14.89260809	14.97104664	12.06258359	13.06835908	12.06925837	18.5286128	12.93761033	12.22959666
SNX12	16.30295831	16.51000506	16.55777947	16.83416304	16.76716625	17.24317212	17.01334144	12.60105338	15.83764597
SNX16	13.78529462	14.74014664	13.79900874	14.31021888	12.65852572	12.06777407	12.0732236	13.34841044	11.96022489
SNX17	14.96006973	15.53877213	15.06854388	17.65318429	17.59475074	17.77098377	19.13424585	19.25065445	19.67428044
SNX18	14.1175672	14.2834569	14.57299876	16.77972817	16.36238485	16.47592779	12.49950915	12.20689545	11.85377932
SNX2	15.45470439	16.29818613	16.38605996	16.64448947	16.50964008	16.97641438	17.12761896	17.38821701	17.80618355
SNX27	16.28706213	15.4948724	15.90277434	16.48436695	17.27545519	16.80912727	15.05643025	13.04982422	15.64829159
SNX4	14.85841433	11.46902341	14.20720795	12.61295033	13.4753133	13.16542316	12.46795746	12.61429007	12.27449393
SNX5	16.30294628	16.71282572	17.16763144	19.81289073	19.67175182	19.69042281	21.78179613	23.18369043	22.58349809
SNX6	15.35151418	15.61236402	16.2467482	16.60389954	16.81177263	16.40469841	15.56871178	15.94157505	15.97030512
SOAT1	14.12655244	15.3017099	15.60816424	13.85810776	12.91203602	16.08529033	11.80611659	12.36078644	16.54793352
SOCS4	13.2514117	11.30422038	11.74234621	12.78176811	12.85267103	11.99985596	12.02967029	12.23573549	12.88529014
SOD2	15.53308878	15.69090671	15.45665273	17.76036706	16.73654719	15.7507804	12.59881788	15.7534291	13.09658825
SOD3	13.03163878	12.47731455	12.0948693	16.36118137	15.9223254	16.20172371	20.46313778	19.61321638	20.94526401
SON	16.9733411	17.12953786	16.8696243	18.25304667	17.44583085	18.48652383	16.64351795	17.42452445	16.94166787
SORBS1	15.32158134	15.32016261	15.66507524	17.60919215	17.93277736	17.7944075	22.56562704	22.32052175	22.69691135
SORBS2	14.69966763	14.71619555	15.06141465	15.76059023	16.61234765	15.48276231	12.75948958	12.22926886	13.49869328
SORD	16.16008433	16.07663092	16.24644049	19.65787296	19.92831403	19.9548283	19.55135512	16.62535917	19.9923855
SORT1	15.45548949	15.23311078	15.02144604	11.97995315	11.7056938	11.80252504	12.70383073	12.34869734	12.69207776
SOS1	15.88513259	14.49149008	16.0741367	12.28959391	12.63124737	12.17381482	13.13378895	12.03227103	12.66922092
SOX17	13.60000683	12.82658721	11.65483327	20.16044938	20.15314799	17.85430675	23.14248131	22.70264055	20.69708747
SP100	17.11360379	17.38976355	17.27322041	18.73238514	18.74255366	18.97437453	12.41176308	11.4296675	12.21166292
SP3	15.08327079	15.06053459	12.62720076	12.89430955	16.74389379	13.0307175	12.3403705	12.54077202	11.65673372
SPAG7	16.25681506	17.41446696	17.17701276	15.62255104	14.60504619	12.88204299	12.73536447	12.2624875	11.00345768
SPAG9	16.24041044	16.57579394	16.56268231	18.0557575	18.74074842	18.50539365	19.15826767	19.32441302	11.14481153
SPATS2L	13.60448191	14.19056382	14.14299306	15.94765969	13.08751771	15.88457287	14.18807906	11.73739268	13.61977776
SPCS2	16.88734513	17.16253178	17.22999197	17.2631376	16.66103065	15.09185636	18.11566281	17.12484355	17.12041798
SPECC1	15.18269838	14.74003023	13.44356851	15.07667107	15.2829988	12.49286137	11.65220039	12.45053357	12.45564668
SPEF2	13.80334178	14.35716938	13.38723895	16.56077143	17.47291869	17.19781409	18.36961366	11.9743025	17.91951676
SPEN	14.90517342	14.46737543	14.36848886	16.61984737	16.87646781	13.909438	12.04903894	11.63417585	13.31206157
SPIN1	17.57216883	17.27167204	17.171794	16.59410834	16.52311467	16.17725341	16.32635564	16.62968117	16.72688105
SPIN4	13.84473577	13.55265904	13.77607207	11.5142641	12.19525621	11.98885221	11.85972989	11.71200377	12.09824759
SPINDOC	15.77802055	15.12645997	16.08903447	12.41137745	12.27940853	12.03768353	12.23124455	12.70535369	13.23202615
SPINT1	14.8122814	15.63005985	15.55076771	14.02267592	13.32526665	13.60805022	12.63609748	13.31981239	11.99686118
SPINT2	15.0736714	15.0453382	15.16223029	17.81354704	17.98146973	18.06541099	12.048107	13.20338654	12.71878031
SPON2	12.19241688	11.94499038	13.93982047	22.11955166	22.27442636	22.41311764	13.43064787	17.54136051	12.60258693
SPP2	12.00993386	11.89343314	11.57700831	13.15040481	12.84504	12.40459912	11.2180847	12.50943549	12.56924293
SPR	15.45457594	15.23639116	15.38257323	16.90847177	16.71600842	16.54873254	16.6157482	17.12623508	16.7359024
SPTAN1	16.83874146	16.85409905	16.87834467	17.19257793	17.07247683	17.18812065	14.89284318	14.1952387	14.69732413
SPTB	16.19504409	16.18523211	16.58015822	13.44154162	11.68306831	13.92808705	13.15082173	12.22893542	11.88822617
SPTBN1	16.81747955	16.84937088	16.93214848	18.18803517	18.30484487	18.24782544	17.28248737	17.24223987	17.08973762
SPTBN2	14.99523417	14.93247435	14.82253366	18.69766481	18.38437	18.41334594	17.93293539	16.14900812	18.31034449
SPTBN4	14.00495753	13.19010466	13.38916821	12.8159876	12.86863251	13.23709953	12.56010271	12.65649486	11.63136744
SPTBN5	14.40457083	15.46664653	15.29697678	12.63850864	12.58914383	11.28922841	12.73875704	12.07090876	12.37980397
SPTLC1	15.84945935	15.72807483	15.55480468	15.89789481	15.88930049	15.9115821	12.02915841	12.48212198	12.6944175
SPTLC2	12.33555395	16.07124769	15.53773488	21.59914025	21.25586932	22.03353575	24.88250201	24.79037928	24.90294373
SQSTM1	17.46143639	15.55676995	16.05668599	16.61921852	14.9085196	17.52117376	12.26075323	12.96886229	11.99718082
SRA1	13.60271158	14.07846986	13.82863883	14.86783746	12.72466384	12.45996758	18.59529481	11.73601753	12.84690639
SRBD1	14.70900426	15.87304547	15.75989117	14.08472657	14.06798397	14.3808702	12.97889895	14.66343748	11.361684
SRC	17.05481701	16.53363081	14.99289035	16.21495655	15.93210971	15.93656798	13.77646222	12.62148871	12.22124578

SRCAP	14.86462146	14.46612878	15.07505438	13.15216697	13.2205874	13.35624659	11.89879751	12.47005086	14.69693118
SRCIN1	13.07057082	13.35978027	12.51583397	15.37952125	15.4196887	12.13264257	12.06736391	13.14741671	12.20408203
SREK1	16.07832702	16.44946446	16.42717284	15.71731956	15.31942707	15.43110248	12.18020475	12.36393603	12.39506082
SRGAP2	15.2102653	14.5654539	15.51910357	15.92421813	14.76751511	16.25431177	11.56993903	13.2226325	13.80099125
SRI	17.02803707	17.03786032	16.98021233	18.15859477	18.19394946	18.36814008	16.27965812	15.1413644	12.55003043
SRM	18.46401119	18.31188474	18.58254869	17.97642397	17.91563431	17.9120296	17.43727267	12.03789322	18.20650644
SRP14	18.194063	18.01562652	18.40468828	16.47489248	16.08189807	16.4432075	14.91251256	16.54140047	15.36262977
SRP54	16.09566576	16.11475705	16.00742013	16.13066661	13.2174273	17.18316646	13.29091708	12.1899861	11.24582654
SRP68	15.98263959	16.11084481	16.17679812	14.67704581	12.81004421	14.30447828	12.09622128	12.05700048	12.40953967
SRP72	14.04372003	13.96880544	13.60443885	11.46342785	12.58454345	12.80464885	12.75304069	12.37902036	11.38642427
SRP9	17.14870098	17.97338352	17.97403132	17.0123815	17.05471248	16.9863811	16.31145113	17.69109581	11.83887713
SRPK1	14.67687134	15.18071289	15.24094487	11.88240304	11.86773898	13.10235269	10.76593713	12.32205877	13.40227572
SRPK2	12.79742358	14.9972678	15.14770605	16.27142262	16.3899876	16.65400076	13.03274894	11.46284494	16.55161792
SRPRA	11.56164016	12.55507487	12.9216493	11.11912551	13.96653638	12.77233555	11.69253739	11.71602129	12.57937754
SRPRB	15.18069125	15.52312111	15.58624502	17.63089121	17.3041172	17.39965759	17.4333916	17.91405937	12.29296478
SRRM1	15.36422478	15.78529875	15.61350914	16.6373759	16.64719055	16.48311495	15.24794028	12.66926847	11.06437227
SRRM2	18.36876177	18.24254374	18.38651625	19.35774195	19.23385424	19.42431405	19.93095753	19.33813246	19.40157998
SRRT	17.36868323	17.35790926	17.25902994	17.16923351	17.41056197	17.2028811	15.29664544	14.97879869	12.24664221
SRSF1	18.62713029	18.54062244	18.68161745	18.68536494	18.72174188	18.79999177	15.32570372	16.17424685	12.41923942
SRSF10	16.8417184	17.17507808	17.00806142	18.17130233	18.25762953	18.304731	12.33825219	12.1568298	17.02100451
SRSF11	17.80290793	17.72221704	17.78442994	12.7018019	12.87863962	13.10564471	13.24146927	12.07718666	12.77831409
SRSF12	15.11246518	15.70411251	15.8106757	16.29281047	15.66864647	15.85592328	12.88791233	13.42484265	11.7575444
SRSF2	19.8155042	20.04781886	19.96493993	18.92408392	18.18741334	18.21166682	19.42690935	17.93626572	19.15412458
SRSF3	21.53885822	21.54904255	21.48737791	20.65808941	20.72566288	20.98910031	19.92016624	20.12395564	19.92341276
SRSF4	15.35548035	14.90211183	14.73128155	16.84355568	17.05754442	16.75716668	12.76754709	13.35987261	16.26517446
SRSF5	16.25702801	16.53935689	15.84078734	13.5733041	14.99346607	13.66104104	12.08863703	12.08041956	12.20533296
SRSF6	19.24388946	19.17013918	19.15628804	20.0109379	20.04438012	19.9565433	18.32310053	17.92446024	18.43136255
SRSF7	20.14919471	20.08969717	20.02441678	21.00616274	21.02138965	21.02037222	19.43222807	19.33409319	19.65826029
SRSF8	20.40664787	20.35555142	20.18943559	20.1942506	20.46854601	20.69155021	19.24996469	19.06749704	18.98859761
SRSF9	17.32803054	17.41474229	17.18593343	17.87231906	18.1329068	17.85185657	15.95331056	16.92597079	14.41005679
SSB	16.81029442	16.91457998	17.05977629	15.38350359	15.91371519	14.65431392	13.29053939	12.41763259	11.77883583
SSBP1	18.61204735	18.61744258	18.84884103	19.38096269	19.36139462	19.40997516	18.39383234	16.3770357	15.20421591
SSBP2	15.44026574	15.52020509	15.96245617	16.09601887	15.64584601	12.45555084	12.01642022	12.2594868	12.77105719
SSH3	14.22726973	13.39509821	11.61562457	15.23878104	12.61195607	16.34454151	15.94934842	12.73549381	15.99231071
SSR1	16.89278825	16.58638655	16.98265215	15.54469176	15.54485782	15.3999004	12.43807352	12.16834586	12.9769456
SSR2	13.78358513	15.4360079	15.52493606	17.31576018	17.5482232	18.52956472	17.43944942	18.33080894	13.25445698
SSR3	17.34187779	17.52413385	17.17888948	16.98899255	15.20495411	15.48890924	11.17411909	12.90351018	11.38817218
SSR4	17.16031551	17.3755849	18.22536482	18.24608479	17.91499586	18.15182065	18.08041009	18.74232176	19.02303076
SSRP1	16.57717852	16.412707	16.28729437	13.26974328	13.11253142	12.5507436	12.74500573	12.90203819	12.29539524
ST13	14.06634147	13.90974187	12.26591419	13.60062007	11.81441702	11.87649211	13.16832556	13.36477555	12.29405607
ST13P4	16.50314043	17.45459551	16.49712652	12.57747771	14.82668032	12.48318407	12.73390628	12.16367182	11.816328
ST14	15.57591706	16.71624461	16.36667053	15.81145418	17.05097168	16.05266965	12.29280594	13.22738477	12.65680939
ST7	15.59808414	16.1719752	16.11166133	13.72855	12.42130976	12.66231901	11.93502358	11.36789953	12.73391638
STAG1	15.81697471	15.16628515	15.34017636	11.71584497	11.65739584	12.12158677	12.92887838	13.79689902	13.61572634
STAG2	17.05674052	17.49062641	17.22348962	16.50065801	16.50995451	17.41190268	12.41686075	11.76001523	11.94414889
STAM	14.85291016	14.61419237	14.30551651	12.47468089	12.26126031	14.29775838	11.94278592	13.03802687	12.348701
STAMBP	15.45564191	15.11416297	15.11338286	16.91044202	16.93871066	16.79674516	12.48221797	13.98931532	16.60964852
STARD10	16.89991654	17.17532496	17.24227824	17.71230634	16.62244372	17.98678734	19.67715958	20.49770945	12.9021389
STARD7	15.38386063	12.94071557	14.68350066	15.03705639	17.2216572	17.13581975	12.36430207	11.67750612	12.18171991
STARD9	14.34644054	14.92420604	14.36783342	12.59621633	12.52280089	11.98074951	12.31707274	13.10032899	12.89513283
STAT1	16.47183918	16.48378214	16.58959605	15.37621348	15.57221982	14.74480441	14.33341703	13.98735602	14.50763159
STAT3	13.3920119	13.28173405	13.53117292	12.17849071	12.89897293	12.45704708	11.20561501	12.61635606	12.45754596
STAU1	15.58151918	15.96812921	15.56372349	15.27073946	14.64543833	14.92529164	12.43634625	11.81615233	12.66394543
STAU2	15.61160402	16.16816714	16.13997981	12.13558724	12.18464122	14.77624972	12.39663975	13.35295912	13.19962969
STBD1	14.92070849	14.73361751	15.09448457	18.36467843	18.44080161	18.54398272	12.21830784	12.13497915	13.63529013
STIM1	12.852729	12.33606149	12.58871358	11.81503649	12.33639708	12.42767857	12.27492807	11.45855445	12.06400442
STIP1	18.1502461	18.20523091	18.17902321	17.23127526	16.96210221	17.31383112	16.43320517	15.98451169	12.74515091
STK11IP	15.22311037	14.97880877	15.29745342	12.30005276	12.00643464	11.76060921	12.83658792	11.96910797	11.5597739
STK24	16.09114548	16.15457027	16.14116418	16.25962208	16.1683387	16.36659918	11.31621482	13.00857642	13.90629527
STK25	14.33002668	15.04267681	14.57690428	11.89482859	15.07928793	12.94602894	12.42559707	13.38735609	11.82058129
STK26	12.23157011	14.24826339	14.0842084	11.57210706	12.75491658	11.50758692	13.13452639	12.26608851	12.83583893
STK3	16.21388992	16.2169719	15.63468977	16.36937173	16.36214105	16.10146982	14.10070068	12.41768429	11.34553618
STK38	14.89278825	14.98346355	15.03966119	12.87571246	13.29954767	12.25230484	13.54311528	12.82293997	11.66991974

STK4	16.72427278	15.8642191	16.67088868	15.86553956	15.6674215	15.65902412	12.27976332	11.91206033	12.87055127
STMN1	20.60006779	20.70400935	20.71452771	19.2926345	19.27322583	19.36409224	17.3771896	16.33107977	16.57588359
STMN2	16.96394883	16.67740694	16.88054023	15.63834371	15.48237933	15.40335757	11.86719899	12.43509418	13.1591506
STMN4	14.37993411	13.9765167	13.07244813	14.22318476	12.35599293	14.41071682	13.19538481	12.30545053	12.2811896
STOM	14.32351985	14.25904659	14.42674687	12.55077477	16.9141033	16.7783967	11.85261715	12.4170923	12.18825278
STOML2	18.21046413	18.23885846	18.32901655	17.47093802	16.96420932	17.47603803	16.77403729	15.7534222	17.40702097
STON1	12.97436554	13.69014845	13.38847056	18.4769727	13.1801664	18.26454304	12.48912928	12.07958358	12.27571498
STRAP	16.4054569	16.89072969	16.58004853	15.88488953	15.86211107	16.42554383	11.73033773	12.81170298	12.33683213
STRBP	17.40964582	17.63434447	17.7978115	17.91763806	17.4129231	17.74910512	13.02165157	13.36390966	12.12293842
STRIP1	16.60718106	16.95822416	16.57113402	18.47957347	18.58400722	18.55048341	19.91144035	18.79511323	19.18629905
STRN	16.03013158	16.23771688	15.86219682	16.36609077	16.46415785	16.63129327	16.86539461	12.06922947	12.05128319
STRN3	15.76883341	16.05381406	15.95449945	14.34117189	12.06470092	13.99882848	11.78451213	12.8012629	12.33870546
STRN4	15.82545961	15.31579008	15.58560336	12.49093652	12.95022421	14.16812006	12.56040735	11.44339299	12.77953174
STT3A	16.55352688	16.31502089	16.59373856	17.29104343	17.76831265	17.59582667	12.48493708	11.87619979	12.71025987
STT3B	17.64872677	17.81579323	17.96188165	19.10858238	18.69151441	18.68675937	17.61328621	17.56573194	12.11205407
STUB1	16.04139057	15.8507065	15.48956822	12.66252889	11.76311832	13.43782902	12.11186962	11.58140354	12.57465147
STX12	14.73577867	14.76213914	15.29514422	14.74145884	13.87227488	14.42056931	13.00122018	12.63975861	15.92778512
STX16	14.08359673	13.92675935	14.1298141	15.89562175	15.67134189	15.60061586	16.04852538	12.31994668	12.44008569
STX3	13.49908619	12.03098717	12.55594011	12.62820536	11.48343846	12.61689963	11.7254288	12.33874071	12.70906262
STX5	15.70117763	15.85789561	15.68692455	16.97777435	16.89597568	16.14638179	18.03984677	17.4209542	17.77079836
STX8	16.45936465	16.6654443	17.02353629	11.81916032	11.70344837	12.44653706	11.29834814	11.98541179	12.05758455
STXBP1	16.39486904	16.14585673	15.97027833	18.15577301	18.46993682	19.37089066	15.51307425	15.23791224	13.00907889
STXBP2	15.0778063	15.43402146	14.95642324	15.69094742	15.97185403	16.0684421	14.58984918	15.65020986	14.58313117
STXBP3	11.97740439	12.06818426	18.06315355	19.24736596	20.14410845	20.13917998	11.70632616	11.88544087	11.762306
STXBP5	11.92310459	12.24916595	16.09210554	11.90426812	12.34714375	11.6230918	12.74744684	12.22334672	12.21915893
STYXL2	12.42549585	15.76407447	15.65807888	12.86252813	12.47659806	11.3436619	12.5161992	12.73787676	13.17728591
SUB1	18.15878213	17.94882838	18.18747969	16.79342916	16.56521576	17.27937283	11.4249765	13.14148926	12.59960325
SUCLA2	16.36686571	16.21457091	15.75758816	13.34824414	14.74775744	14.83641174	12.73702778	15.24839411	11.73103405
SUCLG1	16.03172381	16.51142974	16.08985712	17.29943047	16.89729285	17.57902617	18.59411105	18.49912476	18.52297644
SUCLG2	15.98443346	16.17593675	16.1311606	16.43699024	16.57465131	16.5111074	14.2643457	12.85437772	11.92087093
SUDS3	16.03022058	15.85667209	15.54594851	11.95447229	11.65655036	12.60050155	12.79430857	12.50677552	12.43528368
SUGP2	15.56237597	15.43072299	15.42771963	15.12791098	15.95318068	15.82725501	15.89970257	12.25728858	15.95423067
SUGT1	14.84461432	15.54477029	16.49058755	12.04205889	12.57573879	12.59635129	12.15413782	12.71532649	13.88522767
SULT1C3	17.05999153	17.23676639	17.1975024	17.27750459	16.98846447	17.33245889	12.62912201	13.14627603	12.39767989
SULT2B1	16.2428286	15.91399371	15.77836173	13.84072187	12.38234422	12.59281604	12.98459795	11.69657826	12.16418046
SUMF1	13.9734149	15.42069325	13.79240718	17.03066306	17.33985213	17.43990518	11.30949642	12.16769834	12.65785374
SUMF2	14.86710582	14.80052986	14.42308808	15.32434824	15.07744447	15.77609624	15.70759711	14.45123664	11.43702522
SUMO2	18.07546825	18.11220953	18.18048709	17.76281538	16.77609375	17.74558706	12.17631918	12.06734338	12.58429722
SUMO3	20.23498327	20.44746479	20.5552454	20.47632177	20.44150625	20.50572865	12.25996358	11.72846265	11.56988481
SUN1	15.46186204	15.1432583	15.1428575	11.94644636	11.52751002	13.991444	12.73169183	13.97180904	12.83744496
SUN2	16.18257961	16.15156846	16.06894616	15.73841333	14.73694752	15.49419836	12.72879984	11.71218293	12.09554628
SUPT16H	17.40659229	17.49739096	17.32639372	15.63656531	15.44489521	15.4259247	12.82778818	12.42626276	12.76435651
SUPT4H1	15.01725827	14.83050895	15.16991525	18.50438296	18.22172792	18.28136796	18.29246578	18.75222276	18.45801781
SUPT5H	16.11326356	15.73239707	15.5983868	16.12705538	15.22760487	15.29778511	15.58131541	16.34722454	15.57802092
SUPT6H	15.10332985	15.71932252	15.12986763	13.82956113	14.11770948	14.70758589	15.18764467	12.33346055	11.47115254
SUPV3L1	14.84410816	15.51992405	14.72456871	12.17508488	13.20652229	13.7147337	11.43538485	13.17159495	11.46092277
SURF4	16.40095503	16.5263041	16.68322105	16.97825418	17.04157902	17.09253444	12.57077739	11.78143572	12.66922015
SUSD2	17.08672081	17.30657337	17.40301101	12.27414572	11.86011448	11.92079206	12.32349422	12.5990184	13.59460362
SUZ12	15.18390291	15.75980259	15.87613282	12.39294239	12.76526823	14.29427949	12.32311177	12.20108805	12.86345398
SVIL	15.03442568	15.08909844	15.14152129	15.24096339	12.95906292	15.54732132	15.47056863	16.00790938	15.58557587
SYAP1	14.36034491	15.14210227	14.46523937	12.74802178	12.80037357	13.04725331	12.19153892	13.16576764	12.37450946
SYK	15.15433723	14.86185566	14.85175664	11.7040356	13.31681623	14.15672953	11.84740157	12.25263628	12.1701008
SYMPK	14.70615502	15.39850742	13.72265346	14.14820939	15.95702347	11.82680727	12.27558152	11.96262951	11.9509797
SYNCRIP	17.04185809	16.66931786	17.11854262	10.88262201	12.15130746	11.00262899	17.21342725	16.82364887	17.60240675
SYNE1	16.83806616	17.15954911	17.25425616	11.9645264	12.49773302	11.98814072	12.11306756	12.74005355	13.23527643
SYNE2	15.6422307	15.46922858	15.61915615	13.85503028	13.52074933	13.34419029	12.19077952	12.41630776	14.28921418
SYNJ2	14.61517714	14.91569308	17.68118311	17.11554689	17.114483	17.06146501	11.98290532	19.40496559	11.96920639
SYNJ2BP	16.27397805	16.60193722	15.58486598	12.34145116	12.56948173	13.3855457	11.83587192	12.17070857	11.23042201
SYNM	9.384048653	13.04194964	12.32302623	11.04831217	12.88918707	11.27045236	20.28968719	20.88822284	21.06137587
SYNPO2	14.94882073	13.66626669	14.56298144	16.67451483	16.33424367	16.4818137	19.62415494	18.84903082	20.22447279
SYNRG	14.09490722	14.45374242	14.36104977	14.08975628	13.20339198	14.3343885	12.74984101	12.86888415	12.87164069
SYPL1	17.34653107	17.4479265	17.37361875	12.52993556	12.77601167	12.35406779	12.99914848	12.27213398	12.74053844
SYT17	12.6042428	13.04905008	13.53948881	13.19718449	12.72181185	12.75335453	12.68247428	11.74123869	11.65731033

SYTL2	13.03678939	13.37248873	12.4142798	16.43569302	16.25063956	15.97665864	12.65333496	12.35803392	12.19357684
SZRD1	17.52814299	17.22563164	17.4729241	19.01496785	18.74385686	18.89917385	18.9172939	19.53583478	18.92328098
TACC1	14.32824711	14.84827977	12.00760236	13.12299489	12.45207032	12.52688136	13.36404052	12.87979139	12.44572513
TACC2	15.31640856	15.02963396	15.05576469	15.77930603	15.18779473	14.50513555	17.60780674	16.39035619	11.02803226
TACR3	12.78771826	12.51853632	13.83760224	12.44982487	11.75143117	10.91895317	11.58555105	24.43140785	12.34585843
TACSTD2	14.34845957	10.37524121	14.09813696	17.50949327	17.79515606	17.78836124	17.58804515	15.96893236	13.52379803
TAF10	16.04139057	15.8162749	16.1038708	12.69297393	13.30919629	11.45268206	13.20038066	11.61008497	11.6832118
TAF15	19.85090585	19.77249641	19.77681646	19.83237712	19.67118178	19.43576359	16.50911398	16.30495918	12.95439272
TAF2	14.90702271	13.45574491	11.00810623	13.17172726	13.74424832	12.34234327	12.38541466	12.07971396	12.79457258
TAF4	14.85381557	14.40046665	14.63837245	12.89547043	11.72986421	12.06687123	12.63875602	12.42707265	12.41460732
TAF4B	17.6044042	18.1567817	18.04147865	11.71050448	12.31141552	11.70540795	11.86193535	13.46047536	12.59314528
TAF6	15.82186532	15.27103621	14.73619468	12.93938171	12.68548082	13.76099791	12.39818701	12.71723442	12.74956816
TAF6L	16.29286929	11.74803123	11.95497052	12.28582451	12.32397702	11.30581348	11.49877924	12.0315035	12.59071119
TAF9	13.74089391	14.73514362	15.30849903	13.61788544	11.95248245	15.50703259	13.43620193	12.60629441	12.35852693
TAF9B	16.74722061	15.39078595	16.81573107	12.21028686	13.02106509	12.3080142	12.60135531	12.72374387	12.7388779
TAGLN	14.16712258	14.57360756	14.3354289	20.23747497	20.28023965	20.24471759	25.5416022	25.7434578	25.69847235
TAGLN2	19.26492986	19.3311356	19.23927191	16.94694971	17.41913033	17.8650591	19.42488739	18.69791297	18.51703986
TAGLN3	18.13348821	18.51757996	18.48337309	18.5104962	18.26327528	18.58361926	20.88800653	21.30244701	20.61361444
TALDO1	17.8059138	17.71894273	17.46569535	17.71945556	18.8180919	17.88855204	18.3381815	12.13751583	14.99702411
TANC1	14.453971	14.68594011	14.17920419	14.48025116	14.08915249	12.59601953	12.80007689	12.93124973	13.67279863
TANC2	14.19219924	12.4501106	14.33209326	12.69829559	11.95163173	15.65212031	12.92153497	12.54128514	13.86488491
TAOK1	13.55578005	15.13764901	15.63914358	15.43745754	15.81032106	15.65966901	13.17070045	12.89645698	11.45388632
TAPBP	14.71894357	15.23239913	15.0795047	13.85598048	13.494981	13.70322213	12.02297667	11.54736953	16.32458246
TARDBP	17.1951367	17.7709247	17.58932844	16.76827774	17.28159049	17.48637856	11.38481996	12.85686345	11.95681381
TARS1	17.29680037	17.2355143	17.32139716	15.30528952	15.14108263	15.61801052	11.64556568	13.37377156	14.03395993
TARS2	15.16604517	15.20727625	15.26553549	16.1154771	16.24704706	15.94157523	15.19012577	12.4628621	12.51229968
TASOR2	14.13604454	13.77480023	13.54624267	12.39726812	12.33851164	13.24808985	12.53243193	12.37929201	12.7356374
TAX1BP3	14.01448983	13.52094883	15.88269653	13.30329386	12.14484551	12.56358294	17.51623824	11.44409548	12.54883198
TBATA	16.57127918	12.83403997	13.21136202	14.63189286	15.11980587	12.70858802	11.84705334	11.3837554	11.66192003
TBC1D1	13.40160187	11.47538694	12.22891982	13.02993291	11.54484458	12.08907404	12.26548435	12.11483064	11.98808
TBC1D10I	15.02590083	14.79867452	14.48769913	13.38658275	11.87149994	14.14267129	12.13851779	12.7977744	12.2725851
TBC1D13	14.37801928	15.00779806	14.56570995	11.59048368	11.58934503	11.95186165	12.82510074	12.03350425	12.27929958
TBC1D5	13.05631668	14.54223565	14.82125502	11.7520738	12.19925325	18.06110288	12.39519906	13.11466276	12.46772019
TBC1D9B	14.5465089	15.18462986	14.50990943	13.81073592	13.57685914	15.23210524	11.89507372	11.41339012	12.16844377
TBCA	20.19667382	20.09181243	20.2384513	20.8399526	20.24443916	20.12016663	21.59596658	21.32683075	21.73617201
TBCB	17.99790098	18.22519255	18.08564641	17.21547897	16.88602268	17.50063749	11.97807079	14.89158738	13.29290717
TBCC	15.72516731	15.61765261	15.51923072	15.65939457	15.57084563	15.70844596	12.32677987	11.78132057	16.8339434
TBCD	15.60562508	15.48695791	15.51983601	14.99219009	14.89476968	14.67089788	12.04350602	11.60816307	10.98150407
TBCE	15.5111876	15.23721393	15.6828745	14.29548265	14.7225807	15.74714409	12.08433606	15.7451873	18.78498043
TBCEL	17.44053362	12.78862922	12.95369112	11.55853842	13.24686245	11.5448948	12.85936794	12.44626977	11.5884555
TBL1XR1	12.24733425	15.85139911	15.66282191	14.91113465	12.96443117	12.67253987	12.17747233	12.80666227	13.88822903
TBL2	14.15693164	14.21069314	14.96385811	18.08703008	17.46740168	17.66099949	18.63214394	12.25033545	11.96131524
TBL3	14.92395329	15.07639141	15.54559857	13.0747304	12.41030437	13.12843472	13.21935151	12.48271719	12.95048879
TBPL1	13.94443876	13.7539058	13.60918207	11.92275751	11.8599182	11.35881012	12.72070253	12.51466419	12.01531646
TC2N	11.95173188	12.10130324	11.66083745	18.86354969	19.09969684	18.84052018	21.10741907	21.27382303	12.27700389
TCEA1	18.22758196	18.11568052	18.34578436	17.14326848	16.35604106	17.39109719	14.5239078	13.03333083	17.11776369
TCEAL2	16.82427962	16.9431331	17.02209506	17.06169373	16.70209418	16.55742107	11.79945869	11.47993317	11.33993129
TCEAL3	16.4737884	16.29567855	16.68246299	20.73309924	20.34492598	20.45630179	19.13340793	19.62212427	19.2501368
TCEAL4	17.1953616	16.52899488	17.16863485	18.5537774	18.52045696	18.46945232	17.85854895	17.84506993	17.91230463
TCEAL6	15.88345865	16.14639619	16.24374228	18.02138052	18.32837031	18.17352447	13.00364325	12.42383887	11.53451081
TCERG1	16.27053663	17.52321926	16.33099087	16.18756948	16.12588536	16.28180869	13.05386006	16.09092289	11.33105677
TCF12	15.63460101	15.21984047	15.20834053	12.26194102	13.51415847	13.26949608	12.4317778	12.61944018	12.76846026
TCF25	12.92020914	13.15925591	11.45756556	12.51513354	12.31496997	11.53987339	12.00632654	11.90742821	12.66954025
TCF7	11.68185239	11.2123151	16.4373969	12.39130006	12.89679537	12.36933972	12.97766717	11.9398723	13.79774268
TCHH	11.71139726	14.99311304	15.07784091	16.34528616	16.30892865	15.98844427	12.30455315	12.70216012	12.36596024
TCOF1	15.32636966	15.85782557	15.63611686	16.85664003	16.5284772	16.69951235	17.22065135	16.55494043	15.05161718
TCP1	17.3514697	17.37696682	17.36079776	17.64486911	17.51589433	17.54129647	17.54354234	17.6947859	17.8017809
TDP1	15.87911704	15.19206389	15.26130996	10.85865982	12.44154364	12.4391543	12.93338414	12.69468189	12.42610973
TDRD3	12.63605978	15.94727561	16.01127166	13.94094696	14.40748695	14.3792679	11.98585901	12.44046214	11.65094948
TECR	12.41679221	16.30750991	16.75484883	16.0753859	16.48497449	16.46849096	12.39805623	12.57074883	12.61811918
TEKT1	12.19235577	14.12252274	12.27821546	14.01542936	12.36012192	13.65259723	12.91823042	11.53891354	11.7925853
TERF2IP	15.57380606	15.88958755	15.67910571	16.14559153	12.25285336	11.45714455	12.44848008	12.42104142	12.73737882
TES	14.48196037	14.88270439	14.03999037	15.24898846	15.31859846	14.44921611	16.98071913	18.97061025	18.75247922

TESC	14.98257783	14.34944033	14.44289365	13.11101545	12.22064224	12.85467318	11.99073565	13.64403281	11.67517036
TESMIN	12.21965439	13.26814435	13.7147766	11.72250611	12.38109082	13.3253794	12.70393995	13.09313122	12.45690935
TET1	13.65008834	13.82494592	15.67849593	12.66033512	13.09592538	13.09169892	16.39586015	13.01086368	13.7532224
TEX10	14.61747337	15.27998562	15.09721865	11.86255451	12.61955976	13.41530625	12.00862297	12.9409199	12.13024536
TEX11	17.18704358	17.10333988	13.99087799	12.19332106	12.03870121	12.62986343	23.61909354	23.4961639	23.67016641
TEX264	14.46328216	13.12680482	15.98324479	11.42346094	11.74366751	17.81422803	11.42607536	13.15527148	12.44816862
TEX48	13.71024904	11.89662856	11.78183301	12.79403905	12.12037028	12.53366592	11.63551137	11.9344439	12.46903358
TFAM	16.90267377	17.12021102	17.18747254	17.57373634	17.26879635	17.33103829	12.44310553	16.34048778	14.22185215
TFAP4	15.41554132	15.16100517	15.01556751	11.62699886	11.73124566	12.61498225	12.85474715	13.56294014	12.34130606
TFB1M	17.35926846	17.62325376	17.81151022	11.20170492	12.07732772	12.31364319	12.11538641	12.93574206	12.68456738
TFCP2	13.68129857	13.05805919	14.09008945	13.06562864	12.73854016	11.03446635	13.64273284	12.56416988	12.328673
TFDP3	12.11111413	12.78134511	17.89232606	13.27714654	12.48109926	12.27278375	13.14103581	12.24932403	11.72088299
TFG	17.18923755	17.40910437	17.51306274	16.61616357	16.36791016	17.0974982	11.5561775	11.55504477	11.0534252
TFIP11	14.50485145	14.35642982	13.40977087	11.08925745	12.580955	12.62107481	13.00454102	11.88750959	13.37574562
TFRC	17.70544778	17.69266983	17.91585387	15.18051761	15.03510066	15.04395313	16.4029699	16.84963774	13.75557064
TGFB1I1	13.38474488	13.27182086	13.17944556	11.27326896	11.89982268	12.82602088	17.94226877	16.87758098	11.75456879
TGFBI	16.00944267	15.73993672	15.94198972	15.43015734	15.09228754	14.96493752	19.3990999	19.07403172	19.34527684
TGIF2LX	16.02518805	15.96953624	16.27012756	15.51655796	16.04860266	16.30468667	11.73357478	12.5448217	12.65673208
TGM2	13.97792705	13.0007099	13.42681078	19.79915429	19.7701579	19.89668508	21.28107643	17.14538766	21.44479056
THAP11	14.36082621	14.46620901	14.74586626	14.13073375	11.90856805	12.7604565	13.05253459	12.059184	12.063628
THAP4	18.35930477	18.33991148	18.50924262	22.07503031	21.61321056	21.76334294	26.5320352	26.92882116	26.82181564
THEM6	17.31945209	17.40610796	17.39323208	17.5378	17.79086078	17.76097562	12.2706865	11.87702231	12.51620488
THOC1	15.06290031	15.2273905	14.95047426	13.15997037	13.13739707	11.74486916	12.75462242	16.9249449	12.2276293
THOC2	14.7315486	15.06233529	15.16285241	11.1483878	13.03966704	11.39392699	11.8521555	12.47146892	12.78287704
THOC3	16.32443098	16.46851179	16.60706878	14.2741477	14.8975703	14.73036929	12.40374234	12.72690419	13.78861038
THOC5	15.015641	14.31149357	14.88704173	11.07801195	15.40481491	15.60597937	11.91882724	12.59410169	12.56588319
THOC6	15.9876372	16.72215047	16.30689018	12.46246551	12.16366792	12.16166451	12.70964611	12.15950682	12.53223441
THOP1	15.92072179	16.13131301	16.36035916	14.03390676	14.53790418	13.96131801	12.62070076	11.59749426	11.49363405
THRAP3	17.31213222	17.3688044	17.33633709	18.35107313	18.15454095	18.32950983	16.21098026	16.99701335	17.76505396
THUMPD1	17.14243553	16.79903551	17.02811465	17.96334507	17.51619596	17.79456851	17.31810348	12.48379833	17.83993882
THYN1	16.73285611	16.56736576	16.52604482	14.05957159	15.05889497	15.16579837	12.83134492	11.76172521	12.46479085
TIA1	18.39667243	18.04919275	17.93686923	17.22478974	17.01608199	17.03179264	15.32668149	13.13975218	14.64064852
TIAL1	15.54978099	15.61403659	15.17644566	15.01095697	14.85236248	15.36602145	11.94790861	12.50625888	12.18602388
TIAM1	12.8111523	17.79113874	12.02679865	11.40705929	12.61762474	11.62541585	12.91138164	12.85911394	13.090962
TIGAR	15.74021946	15.7479668	15.77871454	17.11467422	16.95570588	17.28686562	18.00285837	11.40839856	11.89981612
TIMM10	17.90030611	17.81554518	17.57912917	18.12753612	17.62670177	12.82989485	18.13619912	12.58277017	11.07622974
TIMM10B	13.48977354	13.95206086	13.76117493	15.68545484	15.78858038	15.57102018	12.92389855	12.04073703	11.93428681
TIMM13	15.48159594	16.43661846	15.43267486	12.17814376	11.92248087	11.37365175	13.58746223	17.63714259	11.41745861
TIMM22	15.3924643	15.22089553	15.47805089	15.73282122	15.38549942	15.42869609	13.27802796	11.06418322	11.93198102
TIMM23	12.72921327	12.12455224	14.70960484	13.44685692	11.11799778	11.8079715	13.27734595	12.30208475	12.64878969
TIMM23B	15.21982105	15.60151895	15.92421839	12.70993581	12.58747155	13.06418589	11.321815	11.66014828	11.56514557
TIMM29	15.3629383	15.56324406	15.56428473	16.42909695	16.38432886	12.66322434	12.57865322	12.45468889	12.87537412
TIMM44	16.11765794	15.98960607	16.23514021	14.54502289	15.29783454	15.6090989	11.92608564	12.90981897	12.49166193
TIMM50	17.16853898	17.09019912	17.33735654	16.43651502	16.67240831	16.69512754	16.64027737	16.74012969	15.58708708
TIMM8A	16.88919	16.66924279	15.61112294	18.00235913	18.15294402	18.03784783	17.92836674	18.27232489	18.49006841
TIMM9	17.35382673	17.24580988	17.80037419	19.02657579	18.53911785	18.71348064	19.57079712	19.46666353	19.80893112
TIPRL	16.49695123	16.0407208	16.5486004	14.05283461	14.50789895	14.28080238	12.58385617	13.10396924	11.96512536
TJP1	15.57849974	15.65680783	15.53135304	18.82575071	19.24601793	19.04633558	19.54309876	19.39327615	18.29081815
TJP2	16.22939531	16.46897877	16.58244017	17.20746287	17.72767962	17.52180512	17.10241444	16.13149205	17.3193688
TJP3	13.11698071	13.45768007	13.37735841	17.20060434	16.76623069	17.55480379	13.20797268	13.52805714	11.75166407
TKFC	16.82704851	16.90253013	16.82334616	16.89093686	16.87985641	16.70265295	12.60739228	14.99466011	16.1017068
TKT	18.35767076	18.26584596	18.29803918	19.24017909	19.35775836	19.268921	17.84455103	17.95458425	17.66251071
TLK1	14.69526282	15.00544456	14.55719933	12.85199921	13.50994228	13.73885982	12.10356889	12.33187165	11.87015483
TLK2	14.88914215	15.55672657	12.77948813	12.16423463	16.18366162	16.0497841	11.35407608	12.54160848	13.19137041
TLN1	16.86808589	16.74994699	16.80434417	16.97262291	17.14850088	16.76688425	19.38307582	19.72926734	18.837402
TLN2	16.18789293	16.725571	16.45593679	18.04347721	17.62683911	16.95580503	19.7909351	14.5585398	15.14841074
TM7SF2	12.73846157	11.28346674	15.38154556	16.77231372	11.94632219	17.73974549	12.8635643	11.16234844	12.46674164
TM9SF1	15.46167288	15.17670725	15.18070349	11.22015697	16.35904498	11.93906655	12.99747999	12.49859295	13.69699717
TM9SF2	15.74934858	15.76539091	15.41785525	12.87362643	12.7073871	12.69918332	12.29848055	13.31209292	11.52696841
TM9SF4	15.10330689	14.46606314	15.13899172	12.89816242	12.42337367	11.57689814	12.34512789	12.80875282	12.98522986
TMA7	16.25515601	15.74183457	16.17761703	11.93563322	18.31351507	12.90720798	13.26487606	13.19389831	10.96673282
TMCO1	17.17945996	16.3863991	16.43443841	14.98573488	15.79104191	15.62629996	11.83780849	13.1727531	13.83868237
TMED1	15.65074452	15.69567713	16.02947018	15.31001559	15.62732836	15.51487184	12.38294259	15.51642391	12.420496

TMED10	18.34799452	18.45793866	18.29482739	17.81462175	18.00136032	18.13928759	12.23040898	12.39507845	14.44816158
TMED2	14.88398401	14.72762668	15.17740988	12.02214237	12.45161788	11.43223158	13.51428853	12.45292902	12.25119508
TMED4	16.81555627	16.11054121	16.87712699	13.51190326	12.57864947	12.91869069	12.1302983	12.04528587	12.19288235
TMED5	16.79068419	16.87150657	17.4884902	19.95696884	19.68841297	20.15056507	19.90689154	19.23452366	19.41462185
TMED7	16.31954919	16.52722722	16.9659085	16.94613979	17.22743112	17.34821763	11.77210236	12.08548175	12.90884125
TMED9	17.44853809	17.46304241	17.09070898	11.71018029	12.70355648	13.03451743	13.1847135	11.63436075	12.31608739
TMEM102	11.38514389	14.7539297	15.0001898	14.54551224	14.57581928	13.3184047	12.33592776	12.11826816	11.8023115
TMEM109	19.03546174	19.26372434	18.81573107	19.92249879	20.06213352	19.86647689	21.52660649	21.75611514	21.26923105
TMEM11	17.11888173	16.91190684	17.0446762	12.50755483	11.3178081	13.03151298	12.51726995	11.37694113	12.33976174
TMEM123	16.35912676	14.64773676	15.82551359	20.75549524	21.06325878	20.28152002	21.06899778	18.25844303	21.30969754
TMEM126	13.87164659	13.49965829	14.31267051	13.34091771	11.96144067	11.94123535	11.23286783	12.66595396	13.07104425
TMEM14C	12.09895836	13.22610762	14.08704165	11.83939646	12.57082381	12.22667466	12.82195416	12.34660528	11.89078379
TMEM160	15.25780349	14.60151231	15.86549444	11.85171878	12.23255594	15.769539	12.78184776	12.27872421	12.75570993
TMEM165	17.08122202	17.10592143	16.75573554	17.47904616	17.53281159	17.07977239	12.33485646	12.28124839	13.11053735
TMEM17	11.32135414	12.34828227	16.05537772	11.67388917	11.77939899	12.67817153	12.25010673	11.42541755	12.10547241
TMEM201	15.22917824	15.40996151	15.55500623	13.27344301	13.22881215	12.39283125	11.64229934	12.83219116	11.49526316
TMEM205	17.95676557	17.98473055	17.81126131	12.9439385	18.58678298	18.7804592	18.68480554	11.97918606	12.03568019
TMEM245	16.20423683	16.11990122	15.40260616	20.01041622	19.72582906	19.64351745	19.66600045	19.11636408	19.60233733
TMEM43	16.31849561	16.42830632	16.42615673	15.11489971	15.44228642	15.57296511	12.28649761	16.10010907	11.74164459
TMEM65	15.27468438	15.42348678	16.2307658	12.49594117	13.04997651	13.0226134	11.66205249	11.53476249	12.23060024
TMEM9	14.93281285	15.18828424	14.73196934	11.99224274	16.77010954	16.06308558	12.57991974	11.73285907	12.8965435
TMOD3	16.99719491	17.17682814	16.43174434	16.16243534	16.17898128	16.07107915	14.5071028	15.5213194	14.79452805
TMPO	18.57002848	18.7175111	18.69843894	16.94975419	16.39396781	16.60903313	16.13333173	15.96725387	14.15843077
TMPRSS2	12.35167739	12.55962025	12.45039371	18.62107694	18.80357522	18.69678557	12.28570266	11.22791716	11.5739951
TMSB10	22.46191795	22.63609377	22.59391699	23.3820478	23.31407274	23.35473402	21.08590437	20.82782602	20.99354305
TMSB15B	20.87349365	21.02961786	21.08808776	19.05273844	19.19237444	18.97719364	19.79792712	20.42907695	20.64689663
TMSB4X	23.10905061	23.3407569	23.34894187	23.25754476	23.35502719	23.31585979	22.87535149	22.99634044	21.46712284
TMUB1	15.34860232	15.77294607	12.82457112	16.949178	17.27946977	16.61621831	12.15403004	12.62341387	11.62321092
TMX1	18.23689897	18.27213878	18.09370313	19.69938743	19.76121781	19.95212644	21.62818388	21.91291184	22.07247411
TMX3	12.83542792	12.65894389	14.92892766	13.08179462	12.53136383	11.71674124	12.57812335	12.05152305	13.14107243
TMX4	15.37353677	15.19347431	16.28761869	12.2152936	13.73056411	12.96303847	11.08999929	12.90320617	12.06058327
TNC	13.5991644	14.56517927	13.84510647	14.2597997	14.96170321	14.29818597	21.67171906	21.59516168	21.85729803
TNFAIP2	13.74499912	14.49611947	13.76614015	13.12457547	11.35643209	13.04294688	12.74510039	12.27265313	13.2846804
TNFRSF11	20.76313121	20.85514124	21.02222123	22.4422725	22.29861424	22.75205143	13.20884068	20.08602012	20.46450199
TNIK	15.62113344	16.73210191	15.65715068	16.06188238	16.4138071	16.3189579	16.22599338	16.8944813	16.80382649
TNKS1BP	14.95724424	14.21628476	14.39136717	16.36873596	16.69333935	16.7313579	17.37697554	17.46386059	17.52326763
TNPO1	16.52474445	16.73354964	16.63016794	16.34395631	16.50743179	16.74007599	16.20923177	15.91472593	12.36803134
TNPO2	16.12722103	16.29596307	16.22144961	16.22716471	15.45260443	14.45609822	16.57357976	12.22093827	16.45814191
TNPO3	15.18655654	12.62047623	14.27791613	16.44978141	16.80005071	16.54328679	16.0540412	12.56324844	18.01889511
TNRC6A	13.29731336	13.05014038	13.84959147	11.54853105	12.87887522	12.48205259	12.80651532	13.15992893	12.19583093
TNRC6C	12.54836691	12.66364014	12.55969157	12.11303773	12.40633501	14.15908464	12.67237604	12.57638212	12.96822598
TNS1	15.35037504	15.61028169	15.51611886	18.17090126	18.05394603	17.87350943	22.32059764	22.24993594	22.38509401
TNS2	12.4982369	13.61029049	14.02730071	17.92631676	18.11466582	17.77923929	12.27515663	11.42906816	13.20771951
TOE1	13.7855688	13.04749109	13.24347845	13.75981136	13.02227865	12.34211969	11.83141778	12.79647343	12.52219473
TOLLIP	16.83495328	16.73545026	16.83290492	14.13368503	11.74786029	14.49696372	18.44855424	11.90739176	16.92220182
TOM1	16.16674482	16.1816637	16.3935665	19.06104836	18.99063682	18.92743247	20.87648964	20.48373952	20.93106868
TOM1L2	14.50351442	16.02290377	15.76169702	19.03421841	18.88553765	19.11726039	19.00345721	18.24399049	18.27681134
TOMM22	18.23283837	18.53153254	17.95662478	12.88997152	11.88950823	11.43865247	12.67872708	12.50424912	11.60806324
TOMM34	15.28044832	15.67036218	15.33274447	15.75296435	16.1180135	16.30016728	12.76703964	12.66166699	12.07690743
TOMM40	14.22159915	15.52200944	15.31998472	11.60021223	14.94423038	16.24700057	12.55525011	12.55552996	12.88644231
TOMM5	16.92327696	17.30173851	16.74285377	12.36341391	12.75418286	11.34436524	11.77558359	17.61782881	12.88825704
TOMM70	16.96770178	17.05824658	17.16462334	16.39764069	16.57226765	16.49914206	16.99932287	17.18858073	17.41182864
TONSL	15.35362286	15.27498851	15.17230229	12.5113263	12.22848234	12.53267809	12.65726988	12.59727921	12.18168842
TOP1	16.8642974	16.95895755	16.85172186	14.69495155	14.95700843	15.06649988	12.94568463	11.83853678	14.16133411
TOP2A	16.38406919	16.62250102	16.69516334	13.75051032	11.6740845	13.13612347	12.46395494	15.49329863	12.50652694
TOP2B	16.93482806	16.74572683	16.91541655	15.63904227	14.96801499	15.66404448	12.49252966	14.30347551	11.84128534
TOR1A	16.72518014	16.60060896	16.62206365	17.65328445	17.7335048	15.96380934	11.92592609	11.10630512	12.75400003
TOR1AIP1	15.98198052	16.45247271	16.07328339	18.43929649	18.30514835	18.51498946	16.14463106	15.40113372	12.98223639
TOR1AIP2	12.24176301	14.96125975	14.66980917	12.2178356	16.86368917	12.32609828	13.1960635	11.9045772	11.74449439
TOR1B	14.64382028	14.89521066	15.13433906	12.04478666	18.39505152	18.01701505	12.50222465	12.71525701	11.48285816
TOR2A	14.12078025	15.26976652	14.65279877	12.0501987	12.22476585	11.30768318	11.99972505	12.95333794	12.87111978
TOX3	15.0707612	14.49125371	14.80876004	12.17399941	12.24032266	11.98988622	11.99978876	12.16765745	12.86061335
TOX4	16.46371715	16.05268444	16.05036841	16.07651173	15.82611809	16.08184345	16.55520475	17.33104014	12.37912607

TP53	15.28174368	16.05833982	14.79826799	18.82009002	12.20461276	13.50474658	12.14786113	12.23470788	11.73812624
TP53BP1	16.25449338	16.00885051	15.86724532	14.36889302	14.00915735	14.23965213	15.47477566	14.60400442	16.18339488
TP53BP2	14.03951368	14.19760242	14.43992052	13.41751299	13.43189897	16.62893688	12.39344127	15.15344251	15.74897545
TP53I11	15.16544889	15.40592926	15.91058975	16.58246438	16.14289141	11.600629	12.63639569	13.55370182	11.82734503
TP53I3	17.62773775	17.56746095	17.62338424	14.23916812	13.81561638	14.31709456	11.13786501	11.5276458	12.69582168
TP53RK	16.2743538	16.08089147	16.13801034	15.80685719	15.7734406	14.79439802	12.81208444	11.89310396	12.47457643
TPBG	15.90086108	15.58649391	15.73757697	13.24783828	12.25804424	13.60342874	13.09647946	12.63540047	12.89371157
TPD52	19.31241649	18.77657225	19.08559285	17.21155957	17.50841795	17.36839461	12.99435556	13.69257207	12.50079989
TPD52L1	15.56049567	14.30873056	14.71422932	12.92792093	11.93126126	12.3463702	13.59767907	11.62072697	11.90093701
TPD52L2	16.78892029	16.85396245	16.96151578	15.39135004	14.63242589	14.66729796	12.09091241	12.18898911	12.24497688
TPI1	21.01551565	21.28023959	21.03034167	18.61060154	18.93451616	18.96135364	16.92658797	17.88828284	17.52144835
TPM1	15.98344757	16.0484754	15.83966509	18.00587502	18.29762207	18.47320905	22.88757694	22.41586267	22.51017191
TPM3	19.67293757	19.76658663	19.77919584	19.47610597	19.62918934	19.48245573	18.69776227	17.98410268	18.44919304
TPM4	17.38788501	17.33155833	17.0906751	18.43499013	18.76806972	18.19263365	17.1914045	18.97286046	18.12255499
TPMT	14.24605573	14.64891955	14.93468589	11.99868809	13.62119316	11.71158637	13.0195334	12.55051772	11.90230708
TPP1	19.37914181	19.4180313	19.30924895	19.51045013	19.6294713	19.58831614	19.41582033	19.40696291	19.18243918
TPP2	15.92449604	16.29039375	14.71959798	15.38618989	15.46725851	16.32631391	12.58466564	12.23643355	12.34605576
TPPP	15.105226	16.08253375	16.14858693	11.74331925	13.04850678	12.24802434	15.51087146	11.89383586	11.65732509
TPR	16.04714562	15.96805092	16.12542646	15.90110947	16.25241346	15.76752018	13.9361062	14.08492871	14.69815753
TPSAB1	12.90831059	13.10423333	12.75580102	17.0967114	17.62451012	16.93015076	19.40519032	11.50918903	13.27201195
TPT1	17.89621845	17.87562717	17.85310192	14.41804128	14.37019899	13.34715257	11.12600343	16.87133107	12.62777267
TPT1P8	12.63556995	12.40343492	11.76846995	12.37544164	11.91839955	12.33494701	12.29005307	12.32773809	12.57755282
TPX2	15.81388782	15.58724903	15.70912383	11.88546717	11.41848466	12.03710178	14.73173563	13.58049247	12.27927528
TRA2A	15.82060863	15.64505905	15.97564711	15.75602078	13.33910255	15.41901381	11.14839343	12.37723166	13.0061389
TRA2B	18.4518105	18.89242492	18.8509072	20.2838627	20.93775256	20.93867828	18.97833605	19.29112786	19.89055593
TRAF2	12.03213565	13.26651478	13.25141621	12.20764084	15.74353917	11.78199252	13.07814989	12.75414476	12.17191866
TRAP1	17.06222436	16.82573935	17.00717297	15.55953294	15.61681462	15.66331756	11.5541087	11.8962249	14.28374777
TRAPPC1	15.52607289	15.72705869	15.5706083	11.38210652	12.54968672	12.78532485	12.23188718	11.8694023	13.14921459
TRAPPC10	14.24525346	14.55436153	14.39681011	11.92103906	12.38243913	11.55932611	12.70561291	10.71987656	12.12643836
TRAPPC3	17.45175091	17.04270371	16.93556994	16.20914967	14.77289239	16.95796915	12.85611658	15.64564419	12.59702534
TRAPPC4	13.32479745	14.02062116	14.11947592	11.98653656	11.64027125	12.61346787	13.40242129	12.1915906	12.31350377
TRAPPC6I	13.99620035	13.88887822	14.16508285	11.38986016	11.84049687	12.07638143	12.70071434	12.3221767	11.95534123
TRIM24	11.73316286	15.89325917	12.70754542	11.79166293	12.21479207	12.33884911	12.53106112	12.93578	11.64123456
TRIM25	15.68152297	15.63620791	15.69964296	16.2148914	16.10607247	15.83305163	13.42946861	15.00763169	12.39153473
TRIM28	18.73394958	18.91112953	18.81205312	19.72738821	19.88255727	19.69175298	14.66254434	18.25999019	18.0819943
TRIM33	15.69871607	15.87809974	15.75114188	12.16560748	11.88558704	12.95004317	12.92040964	12.51076604	12.69373598
TRIM9	15.27786609	14.99749995	15.40643111	11.34874409	11.46592428	12.61391247	11.78467317	11.56374967	12.72352494
TRIO	13.86506858	13.88079426	13.6975306	12.04585063	14.05850389	12.04257652	11.88663335	12.55529347	11.88001498
TRIP10	15.29513748	16.78375751	16.68546857	16.11707279	16.04074542	13.1559101	12.63553212	12.03917855	11.49987913
TRIP11	14.71322326	14.63030287	15.0155997	14.31459958	14.85088779	14.94386798	16.81891103	16.76438652	12.49611569
TRIP12	16.57567012	16.67619579	15.41209825	17.58485391	17.69035811	15.2552182	15.73332533	16.45036769	16.52377437
TRIR	16.31710756	16.56876573	16.48008182	18.20162862	18.56448166	18.48959972	11.6885648	12.4950291	12.26009379
TRIT1	14.48201893	14.31640514	14.98377303	12.90489592	12.86713499	13.51140776	12.85525939	13.47750332	12.7774929
TRMT1	16.23609287	16.38920976	14.9507874	16.12239353	16.16781754	15.44527214	12.90254491	13.96602636	11.66735353
TRMT10C	15.95268116	14.40685821	15.26497995	12.14707744	11.54510246	11.9245349	11.55200533	12.64818732	11.52317896
TRMT112	16.15595928	15.76048076	17.49917827	15.72231861	15.36045895	16.13907556	12.40824979	11.14528075	11.66514397
TRMT2A	13.22245622	13.74407405	13.91582489	12.61705982	12.32495516	13.54493741	11.42364797	12.55542782	12.4672244
TRMT5	17.10943572	16.64438885	17.00835535	12.05226666	16.40488966	12.49628308	11.90905139	12.80855428	18.66521991
TRMT6	16.36442869	16.41745381	16.8312545	15.87353474	16.05477733	12.46105694	11.65346243	14.48000688	11.47841698
TRMT61A	17.39282995	16.55324141	17.16975993	15.43575824	15.8089697	14.30036472	12.72972339	12.25775774	11.56735908
TRNT1	15.22065838	15.45886319	12.81448461	16.88024834	16.72855921	16.75251712	13.04457038	11.92111017	12.11857604
TRPM5	12.39063772	10.28270174	13.48727603	21.02975678	21.28949135	21.46028741	22.12991133	23.82990424	22.8312826
TRPT1	13.41480527	12.98655842	13.54832675	13.22183915	13.31060059	12.76415109	12.37356288	11.20973616	12.38039294
TRRAP	16.06646008	14.95261625	16.2966139	17.04216502	13.8187556	16.77491903	12.34750978	11.58908973	16.89745516
TRUB1	15.5522146	15.62974733	15.78846788	17.18395325	11.94567203	16.44874277	12.81244141	11.57182199	13.17121683
TSC2	14.82624915	14.91571444	15.1166397	15.75925069	15.63789656	15.0844694	17.24783705	17.32740594	17.99627846
TSEN34	14.95803154	15.0010885	15.44799034	13.58115931	11.79694046	13.42282589	12.50185007	11.15718582	12.02466003
TSFM	16.39604847	16.521324	16.20868408	12.55356222	14.72052674	12.59963326	13.18503425	12.1143284	11.84834334
TSG101	16.74822187	16.57821052	16.55464741	13.1905972	12.9606252	12.16561516	12.85236825	12.51116133	12.1788531
TSN	16.14032758	16.02191178	15.51058221	11.94341157	12.92862457	12.52731149	11.52027843	12.14909455	12.57221995
TSNAX	15.22057519	14.30285652	15.3128565	11.9559663	11.37650739	12.10814586	13.3917139	12.1562841	11.80809981
TSPAN17	15.24196818	12.82292207	11.25141596	12.55183403	11.59919197	12.63693211	12.4549651	12.01592611	12.8634358
TSPYL5	16.59838429	16.60336242	16.74665884	17.24751193	17.13544745	17.44874277	12.93780085	15.15432078	14.39098903

TSR1	16.83974788	16.72763682	16.08953912	16.93890238	16.84791249	16.86104242	21.16996	21.25288013	12.66965517
TSSC4	15.73684244	15.80478567	16.27061315	12.94424697	12.15442876	12.29710519	13.18036773	12.1371772	13.38174162
TST	16.79286009	17.44208581	17.18276678	16.70767437	17.21327766	16.72514489	18.31657656	17.78608517	16.36238868
TSTD1	19.15057467	19.18658216	19.36668915	21.17839732	21.32202274	21.44064448	20.69154175	20.81810746	20.75435012
TTC1	15.64451808	16.06308613	15.56510748	17.43022359	17.53409556	17.59223158	16.91592748	18.44919663	17.41252745
TTC17	15.06474357	15.26628583	14.8830459	12.28640081	12.07797464	13.15427061	12.94261205	12.50783154	13.31289169
TTC19	14.27071241	13.8709117	14.87188795	13.59663977	11.91075543	11.58581804	12.0539031	12.269396	12.00719506
TTC26	12.55501323	12.71819346	12.48585085	12.309661	11.93350946	13.46381976	12.35093832	11.10811944	12.4216127
TTC31	16.62844153	16.17036455	15.92623853	11.79785012	12.33414747	12.64222874	12.14791208	13.93272214	13.07847639
TTC37	15.17415781	16.56807271	15.41158464	17.42030315	17.01158926	17.09902165	11.78259985	13.16625547	12.65674262
TTC38	14.11691367	13.71247427	13.87852936	14.03065535	14.64559298	14.43760239	12.06451614	16.04491413	13.02890373
TTC5	14.65888719	14.53020235	15.76021856	12.57298398	11.81499723	12.29163806	11.7988245	12.5580904	13.41638545
TTC9C	14.94682629	14.778936	14.9566537	13.7253014	15.42851541	15.11166597	12.45260169	17.22401112	13.0063206
TTI1	11.78923669	15.03300964	14.59642979	13.33619905	13.61324928	12.46988756	13.47364479	11.43758742	12.49904133
TTLL12	15.36809706	14.21939053	14.8143995	13.71834118	14.3817317	14.345783	12.79257609	13.778578	11.29517098
TTLL3	11.72534943	12.62447639	12.50423817	12.28841009	13.06852036	13.12037775	12.32772877	12.84706341	12.02847266
TTN	17.16219004	16.73015876	17.84994663	18.24060973	18.17477949	12.28101356	17.21741477	20.08524787	17.74175482
TTR	15.77902186	15.76248959	15.84942083	15.58224344	14.53330176	14.70392825	18.45491688	16.74388549	18.47318622
TUBA1A	21.88229281	20.84308198	21.42309513	18.2497678	18.12782256	17.63205365	21.16269518	20.95452772	21.04078175
TUBA1C	16.20650948	16.35061814	16.26078864	12.95268354	12.15243402	12.45282175	11.37066439	13.6328509	11.80556482
TUBA3C	22.52147536	22.42141612	22.57978895	20.38513654	20.42809132	20.18424461	20.59814171	20.03661254	20.43508227
TUBA4A	17.75343073	17.90514394	18.1983938	12.27955649	13.5069784	13.00617534	12.1097837	12.60481799	12.22931501
TUBA8	15.10672064	15.07974791	15.46099073	14.97198782	15.10972142	11.9811833	13.67524947	12.59633098	17.82602712
TUBB	22.54153726	22.49598962	22.68212703	20.240139	19.68243372	19.73069725	21.24191045	21.14654937	20.16629151
TUBB1	16.01057982	11.73907372	19.00247185	16.40284702	18.66010716	16.14814699	12.16255847	12.67260213	12.46645561
TUBB2A	22.23607312	22.01546748	22.26254247	20.96108102	20.78345045	20.88271004	21.68257442	21.68992997	20.80226126
TUBB2B	21.62170572	21.68402478	21.52195861	21.40125107	21.29779261	21.69316854	13.66034571	20.22595193	11.36556665
TUBB3	21.52749273	19.48357939	19.15947642	16.34165678	16.6999296	16.451136	12.88773102	15.75710918	18.59546081
TUBB4A	21.62746825	21.62259037	21.56835588	23.39039665	23.41815569	23.40593211	22.55186811	22.29134175	22.40654988
TUBB4B	23.34494885	23.46186375	23.46036621	25.54059729	25.61895104	25.37235059	25.34993671	25.19337104	24.9016766
TUBB6	17.67924593	17.39744889	18.04645546	17.78371398	17.6728675	17.43723543	18.66409792	18.77338083	18.54849791
TUBB8	11.77643871	16.83113203	12.81785648	12.46782983	12.69681976	10.79399502	12.45561718	12.45462689	12.01015224
TUBG1	16.95202803	16.50422118	17.0637047	16.00229622	16.22550905	16.27373552	12.07599271	11.56653092	16.60002835
TUBGCP2	15.25536413	15.02963791	15.37847017	14.37515547	14.6567822	14.3308402	12.65868918	13.38786428	13.17043238
TUBGCP3	12.69272497	11.70886118	15.87935739	12.16149484	12.35970182	11.91108935	11.3386054	12.47026843	12.55057486
TUBGCP6	15.35657382	14.93685748	14.79635825	14.59915714	13.57538201	14.78535241	16.45328105	12.7084956	12.63472284
TUFM	18.83997826	18.94909821	18.98194436	19.43908193	19.62624501	19.4579742	20.00680799	19.93311489	20.34509658
TUFT1	13.07385561	14.80430111	15.05143635	15.46574703	16.33894607	12.52150002	13.16221609	11.23319424	11.74154915
TULP2	15.16823371	16.84992413	16.73346136	12.92221177	12.36786642	13.54695714	17.95331056	12.1180876	13.04154845
TUT4	15.73444104	16.01042117	15.43955781	15.56323267	15.84656472	15.86756673	19.17905663	11.18501978	19.11823497
TWF1	16.42210686	16.54335052	16.6602164	17.97955692	18.28452176	18.0361666	18.44791034	16.07570493	18.72081526
TWF2	16.20339714	15.6544734	15.7497203	17.80443594	17.63240047	17.69480789	17.76654334	12.09175185	12.83445091
TWSG1	16.81970444	17.07363357	17.70368344	15.81132851	15.19282548	13.28521647	12.00549916	12.6221427	11.67305778
TXLNA	15.15078889	15.01164765	15.52895566	11.69209193	14.93733317	16.08603856	12.16843084	12.93844891	12.42458934
TXLNG	15.73504176	15.97113035	15.42099129	17.65978017	17.69856153	17.53077624	10.93636343	12.65927017	13.32394789
TXNDC12	15.95614661	15.77027062	15.68807616	18.68387371	18.63004873	18.78744783	13.37462322	17.61486944	17.50502541
TXNDC17	18.63471222	18.36170011	18.64852865	17.6057833	17.84869124	17.71583972	16.26545093	16.69829005	16.31084435
TXNDC5	17.78246918	17.76144778	17.67091045	16.59167138	17.38629848	16.76094653	16.4971277	17.9057106	18.07164702
TXNDC9	14.78170446	15.37885647	15.04759752	14.03592302	12.57039727	12.16143332	13.72857465	12.83422216	12.5839344
TXNL1	16.78757343	16.74191892	16.58870385	17.28550744	16.78556932	16.03509279	15.63870355	13.13672171	12.03405467
TXNRD1	17.26755639	17.41072909	16.93238625	13.97860595	13.34270015	12.49924347	14.99403827	14.6252008	14.80414606
TYMP	16.94022658	15.79173056	16.08592618	13.60275758	12.6814127	13.38883499	16.34159153	16.75186878	16.62186626
U2AF1	17.0368355	17.07348995	17.39243534	16.86256817	16.69090146	16.75264062	12.70343487	12.36414733	13.19581363
U2AF2	17.89479292	18.07044146	17.60018435	14.01391479	15.25788161	15.38752164	11.97219596	11.67186594	14.47984371
U2SURP	16.95692803	16.8307061	16.36226073	16.61736454	17.61277917	17.20977884	12.14936925	12.20829831	13.34699319
UACA	13.55641463	12.91335548	12.79661303	13.25163477	11.48759483	12.06914081	13.06723937	11.80919241	11.59004945
UAP1	16.18710744	16.72304708	16.6243815	11.21454833	12.97471718	11.8978386	12.52718001	14.11452752	11.76231546
UBA1	18.39922606	18.35244646	18.53028148	16.71408597	15.92313212	16.45248001	16.991756	17.14128342	17.27054768
UBA2	17.82800641	17.4548963	17.4908332	16.78992169	16.21051798	16.43612857	17.10375387	15.02701759	15.82026901
UBA3	15.73982044	15.7205759	15.95129232	14.02847415	15.45680881	15.42631828	11.53332292	12.13160489	12.96665635
UBA5	16.91008401	16.73117156	16.75951144	19.05512589	19.18740731	19.22495681	18.46626057	18.26343046	18.35692913
UBA52	11.3703907	12.28930161	15.36758629	12.998116	12.64568576	13.55268021	13.67385374	12.20873727	12.31704835
UBA6	16.05006438	15.9029092	15.5582999	14.84289741	15.30008383	15.72100563	14.8425937	15.71349599	13.71209594

UBAC2	12.2406095	15.79738425	11.51450192	12.18683709	18.84321276	12.63765513	11.62276514	12.05588133	20.18415216
UBAP2	15.55533732	16.02904359	14.60771206	14.5038165	14.85079999	12.95396187	12.79103887	12.34198449	11.90298792
UBAP2L	16.35535686	16.30485533	16.76722946	16.21094203	16.6834394	16.71769675	15.30176857	13.76295824	14.23056799
UBE2D3	16.27459423	14.71683404	13.7833348	13.61246159	12.51963377	12.67865022	12.38543383	11.87523561	12.17109965
UBE2K	16.16892907	15.82873641	15.58247773	14.3772915	15.22928497	12.61892114	12.68633031	12.1632596	12.46278946
UBE2L3	16.91154379	16.85185136	16.68631504	16.12976945	15.99000996	14.11324633	13.09534221	13.42383099	13.73153365
UBE2L5	16.66606425	14.14813382	16.06106849	11.37033031	12.15770283	11.40669056	12.72409412	12.93393343	12.43651549
UBE2L6	14.57901085	14.42333652	14.98063533	16.81382187	11.7647184	12.28827356	12.5639729	12.2296365	12.51777268
UBE2M	17.46814657	17.96071112	17.65088585	18.63749944	18.54538687	18.63625034	17.88928382	17.66485574	18.31426872
UBE2N	16.53171021	17.0442801	16.26274263	15.20025132	15.20807036	12.7206996	16.69231638	12.09873865	12.09003022
UBE2NL	20.3056024	20.24955638	20.28449197	19.59931182	19.60000152	19.61173562	16.72160306	19.11152024	18.48537656
UBE2O	14.84461432	14.86255771	14.93208252	16.92166191	16.80826278	16.75919082	15.56393788	12.34554953	15.73359269
UBE2R2	15.51873349	15.63857595	15.52927133	15.5245084	11.81856104	11.98426478	10.56360165	12.35107321	12.37219532
UBE2S	15.83226929	16.21072797	16.07348749	12.18569531	12.82187462	12.7462911	12.43779989	11.98509361	12.59551124
UBE2T	15.50405707	15.29475346	16.05101712	11.74396247	11.90737017	13.50096255	12.40084151	12.66453623	13.05415194
UBE2V1	16.86431365	17.44643743	17.26284568	20.15627903	20.23365439	20.4616266	21.59032921	21.67168795	21.83841846
UBE2V2	19.08538591	18.94784808	19.03451581	20.09635689	20.2146959	20.08938409	21.59352198	21.64546294	21.59368007
UBE2Z	14.16494641	15.06702201	14.43202383	11.54588555	11.97283683	12.56922577	13.2181525	12.38250137	11.97288542
UBE3C	12.63761834	12.26647011	12.51499719	11.62403636	13.31322771	11.79347185	13.19507082	13.42773937	12.33612906
UBE4B	14.81395724	14.8999267	15.12215711	14.90888796	12.4060499	14.98463047	11.73448981	11.94841155	12.25960685
UBL4A	13.47384293	13.89534067	15.4429511	11.66006136	12.598085	12.34606437	12.16633796	13.35676391	11.82988046
UBL7	15.09990201	15.31051899	15.09351513	12.49045329	12.49869748	12.46055928	13.40150839	12.32077664	12.35632653
UBP1	14.57444091	14.13509155	14.23087393	13.8922818	13.39623452	13.22721519	12.84371479	13.10901082	11.47544733
UBQLN1	17.81714708	17.67910534	17.67273456	13.58351597	15.62586827	16.69615199	12.69996238	12.91922374	12.71761824
UBQLN2	17.04459848	17.43081891	17.49104138	18.02029625	17.20103496	17.23356609	17.10583585	16.84197448	17.27373785
UBQLN4	16.22648931	16.1690008	16.32496308	13.87039023	14.40936769	14.43500432	12.56038933	13.0115504	12.06044865
UBR4	15.66793498	15.69470572	15.38107934	16.8603264	16.61706749	17.10886809	16.35203787	17.84353796	16.69862776
UBR5	14.0481643	14.35800291	14.56401687	12.82775341	13.74066521	13.84015841	11.4967251	12.74912608	12.44510402
UBR7	15.92928573	15.0910767	15.79023569	13.05364991	11.73821658	11.94103618	12.52894978	12.5190582	12.16947174
UBTF	15.75958739	16.34028955	16.50153225	16.32309884	12.76990962	16.54552458	12.79550409	11.77989532	13.25390181
UBXN1	16.60844827	17.08324006	17.09956497	16.73454531	17.35039612	17.4590152	13.12720998	11.71003623	12.95788734
UBXN2A	14.59428478	14.94101977	14.81986219	12.90979992	12.0341797	12.540031	12.87313646	11.91291241	12.91102696
UBXN4	12.46338762	16.51011684	12.45581885	12.27646927	12.07223293	11.37190521	12.26209868	12.27958153	12.16036637
UBXN7	15.46662104	15.92292651	15.88323526	13.9074778	14.49924021	13.88542524	12.52734169	12.54683043	12.63644594
UCHL1	18.98341204	19.02718643	19.15131056	15.51014231	16.04217186	15.12984163	13.9719445	12.12326709	12.05458238
UCHL3	15.68822615	14.82634816	14.41848349	12.03057687	14.65560994	15.22449288	12.51258182	13.27158744	11.42577399
UCHL5	14.54985756	14.24739792	14.54629614	12.36089926	12.41992073	13.07208353	12.9901119	11.97766281	11.62495195
UCK2	15.12828847	14.80989052	14.36240703	11.58001421	12.43003014	12.27243907	12.65436855	12.75047447	12.73177134
UCKL1	15.371782	13.89875994	14.61398629	17.19945587	16.97478225	17.06517548	12.19071536	12.71176841	12.237979
UFC1	17.79540454	17.76399289	18.07808944	17.25718576	17.31956145	17.8399444	10.7388168	12.45077889	17.18887109
UFD1	16.19756836	16.40459219	16.46742608	16.15982557	16.10550762	16.56323082	12.56649757	14.87187147	12.64951033
UFL1	15.08834871	16.18028837	15.84784073	17.48304329	16.82963371	17.77789858	16.35595001	12.34123831	15.54130336
UFM1	16.56989317	16.91522301	16.5660001	12.965427	12.70130168	12.32117045	12.4153389	11.9627587	12.85082233
UGDH	14.86797221	14.77464992	14.23874013	19.0041705	19.10233876	18.89622725	17.76879658	17.50877786	12.34861177
UGGT1	15.79504992	15.68421413	15.80638101	16.2044486	16.19183559	16.33510307	13.2244999	13.37104668	13.00945939
UGP2	16.26350353	16.35178425	16.23280529	16.04736233	16.42393054	15.92101199	14.37828467	12.84741523	12.88483832
UHRF1	15.23164741	14.93403111	14.90543977	12.3595726	12.21723018	13.97849065	13.89473531	12.51157555	11.90320324
UHRF2	15.77837824	15.26936533	15.60062657	12.4213403	14.09608876	12.15474617	12.43772192	12.57317331	11.88582491
UMPS	16.10403426	16.15604132	16.23206206	13.18010982	14.0680595	14.24376327	13.08597483	11.85145371	13.88175498
UNC119	15.53412844	15.89423525	16.24613106	16.53908704	16.43887118	12.67478572	11.71411239	17.38124843	12.31279034
UNC119B	16.94164751	16.70869405	17.10759014	15.82796474	15.01821724	14.36878905	11.76851447	16.4201068	13.15179157
UNG	15.91639875	16.57869092	16.45538323	13.6142519	14.3347983	13.70916694	12.44354502	13.0557538	13.00022926
UNK	14.47547792	15.7921573	14.18323325	12.35723542	12.46031386	13.38336514	13.73912727	12.6347379	12.9344556
UPF1	16.34986016	16.04729353	16.10057363	16.07073746	16.1318786	16.84884057	16.40457434	16.58004288	14.22138497
UPF2	14.29649964	15.51129308	14.35505854	13.97637126	14.01891201	13.69374693	11.93870536	13.2419466	11.97302943
UPF3A	12.69390124	16.63935235	12.81438655	12.60125711	12.26326911	12.84535628	11.95771006	12.19700217	12.24067303
UPF3B	14.09934789	14.72787814	14.19109817	12.76167483	11.93215763	12.77255792	12.76933394	12.88742631	12.19254406
UPRT	14.02856432	13.28160143	13.97554121	12.28280109	11.80950051	12.27617967	12.17565673	13.18499457	12.97414648
UQCRB	17.85724929	17.95837627	18.08382008	16.72835301	14.27605922	11.62192353	12.07816196	12.66709777	12.77458435
UQCRC1	18.52411673	18.61404475	18.55472676	18.70586899	18.82683658	18.54645792	17.73963685	17.6700986	18.74161322
UQCRC2	17.21805455	17.21616479	17.10400159	15.31592639	15.06029304	15.12270444	14.58563749	14.16871498	14.72727054
UQCRFS1	14.9413565	13.54552522	15.02445313	11.24785572	13.32854621	11.90886629	12.46438835	11.52944377	12.71436774
UQCRFS1l	17.39517177	17.39509931	17.46969406	17.99505807	18.09018218	17.54959702	16.08258228	16.26849901	16.27488019

UQCRH	18.59635703	18.19943569	18.34110908	20.48907442	20.33737922	20.27881438	11.57255802	11.84333586	12.27882929
UQCRHL	15.06147278	15.36559251	15.10985333	12.7994194	11.36271516	11.72209075	12.93374411	12.83313433	12.50951516
UQCRQ	16.45733206	16.66916264	16.32692277	17.29740921	17.38734681	17.42222531	16.6864251	17.43948499	16.23526204
URB2	13.53618546	15.46022355	14.00163357	14.48557127	13.50654698	15.44630938	12.63005918	12.75548004	12.45713559
UROD	15.72042527	16.12566368	16.46300862	18.5145304	18.09674987	18.13523839	11.81076638	12.07478882	11.78347406
USF2	16.44133698	16.14005566	16.30333489	16.15002771	16.41301446	16.50781843	12.51809864	19.77156771	11.85440983
USF3	15.48549582	15.89282515	13.41223762	13.28856076	17.87903512	17.49000917	11.9286646	11.95619561	13.07947511
USO1	15.82346845	15.60778363	15.66631516	13.17981503	12.73335267	14.47306654	11.6448153	11.7482912	12.32179676
USP10	15.93013494	17.69814772	16.61522946	12.46357638	11.6544169	12.5109416	11.93892574	12.46644278	11.93435855
USP11	17.46491599	17.61948804	17.38997715	12.9966074	13.54594282	13.3579601	14.54928335	12.08454088	12.74368944
USP13	13.77426345	14.13791458	12.80471947	12.48391025	13.07365634	12.99630255	11.59983893	11.8103762	11.63877809
USP14	17.17914027	17.17146923	17.37442418	17.9448927	17.94151897	18.04706344	12.76893607	12.41377199	12.74944611
USP15	13.53427905	14.00366352	14.08461349	13.16027905	11.81858619	12.15674523	14.27093113	12.95409758	12.68135093
USP25	15.41417798	15.54789789	15.98057597	13.3473686	12.91945102	12.34972431	12.73732252	12.37576749	11.91737957
USP35	17.62955805	17.2140151	15.9839359	21.95458317	21.95855206	22.05289138	23.70822151	12.9544157	24.86008103
USP39	16.99028262	17.49340508	17.5739999	19.58512477	19.74821979	19.46462196	19.76920362	17.53366676	18.21846443
USP47	12.61883515	15.15746238	14.27307636	15.06844214	13.38380942	13.1060798	12.53733132	12.54535355	11.34610926
USP48	14.42614949	15.12631844	15.30445773	13.29058844	13.32006141	13.83457545	13.35589039	11.9930265	12.19617719
USP5	16.59925298	16.61219235	16.73494598	16.90658834	17.02997583	16.91536726	15.24437152	14.62939367	14.85781324
USP6NL	15.2579403	11.56861628	14.50394348	10.5254215	12.17801763	12.55824888	12.48426489	12.99938508	12.84071893
USP7	15.51577877	15.57621685	15.55516967	11.30208187	12.36177567	11.11863085	17.16862008	12.9499655	12.04358624
USP8	13.67978315	14.34333832	15.39407913	13.9489985	14.02607901	14.04597013	11.9044055	11.83219988	12.09849542
USP9X	15.33552103	15.31219625	15.05532135	15.72278229	13.32180193	15.65535435	12.40312831	17.59057609	12.57063277
UTP11	14.81220894	12.07538674	11.84146785	12.22647337	12.17838946	12.54563625	11.32769669	13.39083366	13.08140775
UTP14A	14.7759451	14.39672666	14.86503719	12.92289211	12.0785561	12.14987546	12.52411538	12.26322611	12.63607812
UTP18	15.76385392	16.04295556	14.34584559	15.92508947	14.84685822	15.38709415	13.0483579	12.52116556	12.22842249
UTP20	14.11693043	15.33552397	14.40622979	14.18108831	14.13657825	13.80619593	11.42339216	11.75140651	12.03445003
UTP25	14.14854419	15.05339662	15.22862637	11.74996991	12.2312165	11.47868209	13.04200362	12.86818387	13.46522442
UTP3	15.87938383	15.63479145	14.82875974	16.0315341	15.4552296	15.43745683	12.98160058	12.28084389	11.78460887
UTP4	14.344829	14.49540495	14.46529593	12.51704404	11.6535759	12.72062389	13.20820248	12.5538976	12.28202523
UTP6	14.92953387	14.76790186	14.63996442	12.22552957	12.41899626	11.9167832	12.61629314	11.76881082	11.29737911
UTRN	15.58874369	15.38317358	15.21875776	16.86555901	16.07882728	16.4917159	16.97551401	17.55194725	17.51463648
UTS2	20.3107106	20.28320854	20.53041225	20.97971269	20.94458609	20.69160743	12.90716112	11.43795165	12.34840776
VAC14	15.91291038	15.73446555	15.78586588	16.67738075	16.40625942	16.21983606	11.81960419	11.95133851	18.6218864
VAMP2	16.44096883	16.53689836	16.5205537	15.72403622	14.40844834	13.03307727	13.2968931	12.86193042	12.87792301
VAMP3	16.80143978	17.04207022	17.25927927	17.47833586	17.63383271	17.74507094	16.72540781	16.27137948	16.64274336
VAMP8	16.21487296	16.45306547	16.09298258	17.98590033	18.33687629	17.82508066	12.6013053	12.52868178	12.91588343
VAPA	17.30892955	16.45485386	17.11912373	15.29758974	15.83582149	15.28799627	16.26975442	11.52628381	11.61621974
VAPB	18.18436085	18.14184367	17.78709958	18.07362066	18.04788519	17.94799694	17.97883594	16.83510704	17.77290679
VARS1	15.23427757	15.16451743	15.01398182	16.30129807	16.60831876	17.02442547	15.17014826	16.15015345	14.02755579
VARS2	13.37902593	13.03186032	15.889318	16.26903231	16.42673311	16.26123434	12.6644845	12.21380428	11.62864013
VASP	16.11325201	16.66018048	15.98735942	18.0653407	17.976398	18.21668171	18.60344267	15.83341536	16.53274762
VAT1	18.2262683	17.88213581	17.80586222	19.30802057	19.52595003	19.51499255	13.59110885	20.95700485	16.1433487
VAV2	14.72413525	13.43921664	15.29418262	12.06851865	13.12064559	11.81396681	12.16913767	11.7925511	16.40594522
VBP1	16.01816494	16.00558675	15.98568934	14.78093882	13.65509327	13.99043008	12.16676174	13.20966797	12.29895509
VCAN	15.7720428	15.05123374	15.69798557	14.37239336	15.00191602	14.60444156	18.80114919	19.36847181	19.16647588
VCL	17.10395918	17.22938989	17.08973579	17.68272597	17.94776752	17.8474861	18.65904366	18.8689648	18.83391178
VCP	18.53298975	18.54672566	18.58198529	18.71384303	18.73346051	18.80576147	18.35331792	18.37211778	18.40013168
VCPIP1	14.95084689	14.74352053	13.59570653	14.15368581	12.68159968	13.93183954	12.77229603	12.44219	11.23058896
VCX	11.56581441	11.87080555	11.45620502	19.90700954	19.84016399	20.01374402	12.65994347	12.57370228	11.83631567
VDAC1	16.74135063	17.23541481	16.89108114	17.20494312	16.88442416	16.90441636	16.06653984	17.55017577	16.75206518
VDAC2	19.36873269	19.38559613	19.34275689	19.29145939	18.99602448	19.1744567	17.03038816	17.93611374	17.57276841
VDAC3	16.41564489	16.55308897	16.45589287	15.32369389	15.36556338	14.86062813	12.5149831	12.64714415	15.75753747
VGLL4	15.93788818	15.32728701	15.42947475	17.48723542	17.38542366	17.43493141	11.90641805	12.07109241	12.47786909
VIL1	14.05038758	14.31093327	14.38271399	13.47250652	13.10027396	11.72627796	12.65518192	12.32880026	12.16300684
VIM	18.89200989	18.93345247	18.95656809	23.50464601	23.4828961	23.68954619	22.03436238	21.30615177	22.11099288
VIPAS39	14.69175628	14.33507144	14.10259858	13.10145217	14.17253783	13.48902628	12.17932104	13.04330204	11.98214032
VIRMA	13.22606591	11.86173294	13.38079607	11.3192778	12.0240406	13.7303398	11.40081223	12.2381136	12.83073962
VIT	19.83977327	20.09345837	20.08162788	21.0465364	21.25561029	21.04952221	11.4884565	19.72498156	12.09250744
VPS16	14.14205262	12.17304796	14.10973875	16.61110091	15.28525647	16.40180826	12.3720235	15.91923563	16.55626292
VPS25	15.40157435	15.78971156	15.18025558	12.32423335	11.4453684	11.92281737	11.19454451	12.05885918	12.11320277
VPS26A	15.99940188	15.8259409	16.1441065	14.41289174	16.30765649	16.69034561	12.08399757	17.84465704	14.34360107
VPS26C	12.77479982	15.73616013	12.78373115	12.66101237	11.65693382	13.24813117	12.90505724	12.18536148	12.14749652

VPS28	15.1796833	14.06183505	13.82117399	12.52512391	12.31982881	12.53435872	12.63172964	13.08487072	11.34976157
VPS29	15.16252879	14.04745209	14.34011981	13.13025568	12.48045927	12.34204121	12.28887072	12.66682722	11.28541866
VPS35	16.93379557	17.06086706	17.05552957	14.72875862	14.74666209	13.89383112	14.94226876	14.9641702	12.90249789
VPS36	14.63061501	16.05947146	14.88488663	13.78564337	12.36111934	13.17674308	11.85969904	12.51635197	12.78643894
VPS37B	14.90735869	15.15390483	12.55224161	12.38791569	13.18949391	13.14997127	12.41507717	12.40068115	11.91999406
VPS37C	16.99289809	16.39285929	16.17173623	16.49315675	16.15047551	16.08546065	13.12843609	12.16079437	12.3343545
VPS41	13.24462956	12.53548572	11.51039499	11.89576112	13.25487059	12.43614463	13.29905731	12.2384969	11.39769854
VPS4A	15.92784381	15.91718772	15.74492299	11.39225823	12.72919486	16.61551081	17.82061828	18.0420613	12.9062047
VPS4B	16.9175037	16.07140431	16.18386643	16.55602204	16.25006732	16.1478653	16.59537932	12.74197858	12.25257341
VPS51	14.64869779	14.64503328	14.57271002	15.83559371	15.55679309	17.49193786	13.20209953	18.59227595	12.40376302
VPS52	15.60914849	15.2673298	15.28272689	13.72286591	13.74917649	12.25270307	16.62111131	13.12726219	11.6523973
VPS72	17.2435964	18.0952279	17.51728375	15.0177363	16.54180186	15.8988457	11.65168274	12.26543344	11.95465856
VRK3	15.26734877	15.55504745	15.40444124	13.79273157	11.61078106	14.32182595	11.99274927	12.93606668	13.31364913
VTA1	16.68211536	17.2705268	17.26292636	17.33668417	17.63216104	17.69417344	11.94467452	13.42481428	17.03320284
VTI1B	13.70913768	14.47293216	13.72315025	17.01978876	16.22645865	16.75208801	12.42444964	12.34050883	11.38593752
VTN	15.67573017	15.9085544	15.74188323	17.93166703	17.86140915	18.28930978	20.95071329	21.00444611	20.73315548
VWA1	15.51774361	15.71799441	15.67608173	18.84132865	18.88319505	18.97825303	19.33712052	21.78859373	20.37993725
WAC	17.15316087	16.54582892	17.03922427	17.28721888	16.15463057	12.60240606	12.54152386	12.66543025	18.41008013
WARS1	17.76106728	17.67173215	17.27936686	17.58589678	11.88651346	17.75775686	20.21837465	20.50139406	11.97028437
WARS2	15.02519847	15.22893589	15.05659213	14.39733193	11.85635369	12.92657568	15.88755106	12.40121867	12.35051694
WASF2	15.37598287	15.23291361	15.57202073	15.58781956	15.83583588	15.42908659	13.12513769	12.41444371	12.13966699
WASH2P	15.49700382	15.38675362	15.6500146	12.26782799	11.8638703	11.6550405	12.48078478	11.75139241	12.05670694
WASHC1	15.37645199	15.03151206	15.04245051	13.41672021	12.75026938	13.47241966	12.6451266	12.54998241	11.59515851
WASHC2A	14.79336095	15.80878855	15.77929477	16.61311743	17.2650608	16.64611787	11.60597221	16.39895696	11.45042041
WASHC5	15.44309276	15.19391478	15.03923852	13.99862706	13.84608765	13.97693909	12.09580202	12.32175018	11.90335099
WBP11	16.38795013	16.40870217	16.39275962	16.25216335	16.11359225	16.1266067	14.30115221	12.32568578	12.88193215
WBP2	15.36813931	15.15985126	14.7434661	13.21894937	16.23110366	15.4300136	11.86897951	11.87843411	11.5427147
WDR1	17.00033158	16.99026038	17.07564942	17.46316274	16.87124074	16.64144666	11.98726168	15.97688468	17.11539327
WDR11	13.90549689	14.09013997	13.56618471	13.99322447	14.45419455	14.23314685	12.86667597	12.64204635	12.98528383
WDR12	16.57053586	17.28030782	17.55165371	16.95211213	16.95494879	17.16812493	16.58414599	11.81210411	11.6800989
WDR13	15.32152862	15.83711879	15.77777732	18.65421897	17.57289481	18.49063287	11.92391639	19.27231887	12.39839819
WDR18	16.3640026	16.55303449	16.51261579	14.73561157	15.87508351	15.9563389	12.07640578	12.05719671	12.13673036
WDR26	15.11927084	14.8553679	15.50152018	15.66734816	16.8335774	15.80879908	16.40051101	12.32244782	16.50080377
WDR33	15.47212747	15.17955685	15.32623467	12.34622059	12.28868577	16.25211333	16.76589017	12.97566932	18.78400868
WDR36	14.31747079	15.50574242	15.57333993	13.28278719	11.86291955	14.13662692	12.55804565	12.92177039	13.20797678
WDR4	14.80764719	14.64927934	15.18884482	11.96450061	11.76666495	11.51880251	12.28913607	12.59642993	12.9961558
WDR43	15.51694784	16.06144246	15.8764572	12.05760894	12.44932227	13.08783273	12.50695649	11.8780201	12.08239803
WDR44	14.20095421	13.2235557	14.51390383	11.06140328	13.24074881	12.49556968	13.12214924	12.1506231	12.3000741
WDR45B	15.08450552	13.25759775	15.72492311	12.6237895	12.11709344	11.7077736	13.01710113	12.09900263	12.71330553
WDR46	15.43945642	16.18960472	16.21468511	15.19835797	14.26917006	14.43360866	11.5622586	12.38155902	12.3766475
WDR5	17.90928744	14.47762847	17.23345016	12.20694783	13.94425324	20.43223468	12.07050439	12.69932918	12.2456421
WDR55	15.26989862	16.00711648	15.57244747	11.91280962	12.44105547	12.35985483	12.49604517	12.82371176	11.53831408
WDR70	15.54241884	15.63781725	15.6248212	16.20156698	15.90933717	16.82072336	16.01406998	12.60296652	12.05515134
WDR76	14.71499599	15.09571355	15.18691669	12.83218246	12.66064187	12.35276115	12.34291556	12.52669594	12.54627047
WDR77	15.56438494	14.30584815	15.12892169	15.13770934	14.9242389	15.4545566	13.86556401	12.27487534	12.82107213
WDR82	16.59309041	16.55767151	16.52721822	13.86599482	14.2820043	14.43334266	14.26754882	11.91405625	13.1073307
WIZ	12.3854834	14.91676084	15.52724079	16.604513	16.75415961	17.23155267	11.3908286	12.36324375	12.65666899
WNK1	12.22970025	13.85727286	13.57005609	11.89675286	13.09681083	12.13020176	12.80716205	11.80964325	12.42617299
WNK2	14.8540167	14.96341083	14.6076369	16.40365699	16.41506122	16.38809037	12.08217794	11.51368863	11.94937601
WNT4	12.59480805	12.08755256	12.63206732	11.07837088	12.69479133	12.16652728	12.07126461	12.74839915	12.89451869
WRAP53	14.74996835	12.82683294	13.16088048	12.80643912	12.24002701	12.09106922	12.81402314	11.54999374	12.00136337
WRAP73	13.24869955	13.7935995	13.92272074	11.59113335	12.34865575	12.39024296	13.77036374	11.46313424	12.61270251
WRNIP1	17.26302586	17.39641881	17.14503568	18.81385274	18.99799284	18.85909506	19.01010409	19.16589134	15.33534065
WTAP	16.4956509	16.25736737	16.6914449	15.77782453	16.25376577	14.63952101	11.82923634	12.76541969	12.22921858
WWOX	11.90961561	12.67197898	13.08164369	11.23326878	11.73010334	12.9568653	12.40867591	12.64874383	11.94342254
XAB2	14.79184367	15.21115102	15.00451094	12.26393167	13.22243215	13.53426745	12.1463807	12.88841375	13.281644
XKR4	12.61117799	11.85573038	12.66099449	26.52760902	12.75641611	18.00793545	19.44714066	18.4993305	19.97178518
XP32	15.88660799	16.38122552	15.16415973	22.35297664	22.40244889	22.36349169	20.87831422	12.80107696	21.28410383
XPNPEP1	15.00581866	15.16893931	15.27778445	12.1801889	13.50582625	11.94283523	12.59388922	11.35807996	12.42430769
XPO1	16.17996745	16.33524864	16.23673026	13.80920845	12.82326211	12.86871871	12.53375684	11.61634757	12.61693119
XPO5	15.0596267	14.88471143	15.41384168	13.97267294	13.85869503	14.04615399	12.93526588	12.70091004	12.47194225
XPO7	14.78630068	15.36097585	14.6758692	11.82848681	12.54167349	13.99120476	11.25811224	12.61273108	12.07283566
XPOT	14.79837567	14.80067331	14.71734368	13.71420246	14.3753624	16.02835928	13.00396907	12.32999666	11.7448118

XRCC1	15.99933012	15.87058426	16.59108537	16.47116626	16.39733085	16.48948438	16.97573386	15.81858101	16.75554337
XRCC5	18.37640998	18.4455171	18.49686639	16.88501503	17.05140428	16.93425392	14.57255873	15.42320489	11.55307305
XRCC6	18.65431297	18.78102675	18.42061524	19.22615528	19.38051962	19.43247122	19.29912068	19.44354226	19.44181727
XRN2	16.82375806	16.47941986	16.7378439	15.27157487	15.57943182	16.03011077	14.47056863	17.81426572	14.93052641
XYLB	15.03374639	15.74348041	16.62142082	11.61496143	12.44233314	11.77137803	12.50275333	12.8899158	13.00044164
YAF2	16.86780717	16.00229611	13.7076696	19.45510571	19.39652463	19.42618584	18.61328621	19.14395921	11.02652665
YARS1	16.72074159	16.68244752	16.68526219	15.73993165	16.25500767	16.81293817	16.24510614	11.81079623	16.29416295
YARS2	14.82865613	14.78751851	14.77583264	12.54998649	12.43199268	13.2634986	12.59205366	11.8370096	12.44290168
YBEY	15.40198708	15.20547739	12.88098927	12.44350713	12.54151508	11.8466987	12.41478117	12.77515863	13.00478634
YBX1	17.97527896	18.23002943	18.13915645	18.7613726	19.04717193	19.11455946	18.58532093	17.39966257	20.14583451
YBX3	14.84007282	13.05759117	14.57512321	12.36009318	12.71560476	12.06142346	13.11713027	13.4282561	12.22432385
YEATS4	13.52508804	12.6118736	14.12036222	13.6739686	14.14075352	15.16409863	12.39459222	13.80340557	13.11048309
YES1	14.10798606	14.98753437	14.6040022	16.77803889	16.24286026	16.10622784	12.48496153	11.82092648	12.64584879
YIF1B	14.63799214	16.1097501	15.97677675	16.92135974	17.00948512	17.05912534	12.28425712	12.05392072	13.07561123
YIPF4	16.11131305	16.09859579	16.14663066	16.38481519	15.19651509	14.57667089	12.40543754	11.62946156	11.89851102
YIPF5	14.80646292	15.07581477	15.03534325	16.48133481	16.80578016	17.15211451	11.97264602	12.19090866	11.41801525
YKT6	15.46535048	15.68273	14.20388962	14.46631723	14.73274071	14.59340432	13.6426155	12.19547291	12.90175487
YLPM1	16.1880269	16.31739057	16.25920542	16.21309599	16.13559094	16.23314065	15.26125226	15.51841225	16.53107184
YME1L1	15.15195083	15.10989949	15.39658767	12.51171608	12.40119474	12.04804668	11.76416329	12.74798668	12.20545263
YOD1	12.14615577	12.67543055	13.3894067	12.77882181	11.90374945	12.5479271	12.33936155	12.74228287	11.88358119
YRDC	14.21795845	14.30035511	12.96313194	13.10315413	13.47309297	13.37916685	12.52599777	15.53906469	12.49347945
YTHDF1	15.41182317	15.574034	14.48364654	14.49718013	11.95311252	12.46874209	11.9494275	12.36298434	13.19371189
YTHDF2	17.46223369	17.67304394	17.32551041	17.18367589	18.21300256	17.55619263	11.74606533	11.80033341	12.32589437
YTHDF3	16.40782143	16.92180953	16.42012099	16.73392033	16.72356664	17.0576871	12.27506807	12.62287353	11.90069193
YWHAB	18.9310889	19.07777764	19.0297831	19.29795131	19.62438292	19.78728496	18.50177402	18.61691888	18.88312926
YWHAE	20.73058176	20.84647166	20.82074572	21.36184177	21.25700273	21.44738084	17.85763116	17.23762686	17.39433841
YWHAG	18.57534792	18.81468002	18.63937286	22.2389064	22.15122764	22.37126252	24.36966554	24.76432847	21.79474025
YWHAH	18.08797753	18.34411704	18.10999127	20.47492837	20.57518398	20.45504104	21.58793132	21.64975116	21.84157866
YWHAQ	19.86527053	19.81863473	19.78725328	21.46148261	21.77821536	21.84309883	21.39633137	21.49762256	21.62141424
YWHAZ	21.75137815	21.70698416	21.78691619	22.80516763	23.03776135	23.11257353	21.31945344	21.97303471	21.7802868
YY1	15.55568113	16.74141278	11.97075389	13.02261831	11.90393298	12.45327676	12.4086442	11.97651732	11.64359655
ZADH2	15.38899845	15.79860115	15.39407913	14.15775835	14.22462469	13.63555047	12.7453989	13.14566441	12.07999635
ZBTB10	13.0848945	15.06685849	13.01203244	13.04630691	12.49245905	12.75289985	11.44488166	11.49280323	12.67349881
ZBTB21	14.77655708	14.86735943	14.5045491	11.95344921	13.84200783	12.31664299	12.75079613	12.31241227	12.99835392
ZC3H11A	15.6077497	15.63371174	15.64243872	14.10352562	13.08118308	13.09326352	15.05039099	12.19622455	15.09780064
ZC3H11B	15.78077379	15.62191226	16.19067629	12.85231392	11.87684611	13.19114686	12.72333381	12.81429201	12.96039503
ZC3H13	12.61618145	14.80523162	12.97868834	15.33992785	15.22193065	12.18976194	12.88665846	12.49512176	11.83622058
ZC3H14	15.84804025	15.85770783	15.22138263	15.55246521	18.35212301	15.02580839	21.59010939	21.74601696	21.81198216
ZC3H18	15.48505111	15.90869036	15.72515638	15.951933	16.27534617	15.60061586	12.63570923	13.01640289	11.92645579
ZC3H4	15.92181063	15.6520155	16.03831203	15.00041294	14.85266698	13.88333847	16.27041397	16.06040283	16.04006268
ZC3H8	11.85986643	17.18939797	12.26438724	13.44392525	11.89533453	12.44762516	12.89372812	11.7570388	13.31733752
ZC3HAV1	16.01815398	16.74457058	15.39254812	17.96850813	18.02586571	18.84201017	18.15470853	18.1202043	19.70358929
ZC3HC1	15.31774205	15.97211678	15.91391446	18.8994692	18.85522986	18.49444715	19.31145113	19.48049157	19.77468993
ZCCHC3	13.65378993	14.58607784	14.19573071	12.82166324	13.95862844	13.8892634	12.18335296	12.71680551	11.80057187
ZCCHC8	14.43929711	14.53101939	15.33477374	12.4343058	12.44572818	11.64800592	13.5453334	11.83505982	12.14354149
ZDHHC13	15.29383333	15.54001996	15.86592299	13.9119051	14.0090672	12.42184109	13.95153381	13.29126322	12.02884944
ZDHHC5	14.71424285	15.21588143	14.84560992	17.03238151	17.59267406	15.99617355	17.8971543	13.50350944	12.6324806
ZFAND2B	12.70891531	12.00301215	12.63400117	12.56228405	12.14881791	12.38486463	13.48881284	13.01627407	13.30801432
ZFP64	17.77640323	17.59119311	17.42104962	19.79731542	20.24329579	20.29998515	20.25812369	20.45347704	20.70416811
ZFP91	16.01904863	16.20995945	16.42930078	14.7526839	12.82806737	16.8005983	11.13620388	11.64333878	11.69313949
ZFPL1	15.86770757	16.1664647	16.02907163	16.17176855	16.43161283	16.35391677	12.31645612	11.3650675	11.63290925
ZFR	15.01995994	14.37588913	14.51444671	15.43705534	15.18371764	14.97029261	11.79103051	13.21858522	16.13119282
ZFYVE19	14.8083687	14.97208597	15.09847434	12.74840844	12.26988672	11.45691288	12.42429275	12.82384905	12.61933222
ZIC5	11.85295808	12.7319442	13.60446453	11.98010729	12.58520576	12.4218721	12.26818781	13.25079449	12.48942836
ZMAT4	14.91207996	13.04632073	15.4918607	12.2513387	12.18803016	11.90003742	12.23791114	12.88923688	11.58567335
ZMPSTE24	15.69565566	15.36441904	15.58965659	16.24042655	16.13213	16.83254128	16.84723718	17.17904732	17.08037468
ZMYM3	14.99749365	14.2572606	13.93306445	13.36529723	12.54693927	16.10037077	12.17448907	12.23125279	13.40909304
ZMYM4	14.96211438	15.22284796	14.52366688	17.57455282	14.78586592	17.92728779	12.44940895	12.32748614	12.10438996
ZMYND11	14.82449517	14.77221475	15.13787432	12.45034422	13.15215093	12.22203931	12.26719492	11.75014246	13.20027254
ZNF181	16.76489184	12.34407975	14.44200293	13.8063199	12.60217802	13.42873633	12.73735359	11.13491432	12.37911882
ZNF185	15.07183305	11.6819163	12.70556602	12.59040781	11.72193895	11.23199447	13.42752696	12.34495363	12.57649224
ZNF207	18.51220309	18.70040833	18.66018637	18.6942022	18.6626727	18.64068844	19.15534692	17.14447235	18.39415899
ZNF268	19.5940786	19.09466188	18.74723641	18.93036439	19.04485262	15.28460163	12.73320086	13.71342274	12.3417893

ZNF280C	19.48237676	19.7486603	17.83405344	24.18848316	24.21504232	24.25038592	26.28462503	28.41388352	28.33972429
ZNF318	15.63014535	15.45163695	15.37748616	13.08132395	12.10858879	13.43871788	11.66439491	12.26732842	12.45496502
ZNF326	16.60582614	16.94831547	16.68639844	17.26928394	17.47702388	14.5428358	11.81397106	12.87286364	12.4696623
ZNF362	14.38107899	14.0711422	14.54713812	11.07369189	11.89619597	14.03114024	12.8483845	12.32254762	11.51961327
ZNF428	14.54998171	14.51061904	14.13908036	14.45353636	15.81509148	15.35241206	13.52816409	12.58091975	13.01809957
ZNF48	15.82309866	14.35357816	15.16929038	12.67133871	13.64400307	12.2703076	11.93511784	13.51537615	13.24124703
ZNF512	15.61566209	15.13343917	15.23226026	15.73987506	15.69495396	15.7199497	16.5328554	16.53508236	17.10845657
ZNF552	18.74643535	18.96153916	17.33459572	18.46115439	18.64645732	18.42480976	12.92694065	11.73024558	12.60041787
ZNF574	15.54575457	15.26043511	15.53500904	15.73471572	15.28128965	16.10408963	10.98029202	12.35067406	11.92723967
ZNF598	16.23709174	15.92044921	16.10200753	20.6336663	20.18287172	20.01003127	23.38319071	12.03941819	23.74533073
ZNF638	14.85948104	15.04105542	14.75690413	14.67789505	15.73007372	15.32803947	15.37269389	16.00218296	15.60228969
ZNF644	16.17248152	12.07339495	16.11896066	11.4598791	11.21804579	11.63622424	12.09773692	11.91285772	13.48577328
ZNF654	18.48305963	18.78004828	18.66984599	17.9967653	18.09155395	17.83307007	12.05556832	10.97327219	12.07339982
ZNF667	12.69662963	11.47239834	12.94980208	19.28392335	19.32981465	18.99982557	22.15683381	22.51001462	22.91019084
ZNF668	14.12538652	12.91414871	14.09433828	13.09596946	11.17798773	11.20082303	12.11898736	12.28013923	11.5648995
ZNF687	13.92760494	12.71917302	13.76407473	12.03840019	13.11023813	11.70791589	12.31707	12.94620489	11.48086169
ZNF787	14.45312155	14.85319609	15.43225534	11.40523958	12.89731878	11.96919127	12.09246596	13.73542386	13.2846901
ZNRD2	15.77823253	15.88695301	15.87169591	15.77893886	16.17259638	15.83791242	12.07175556	13.0820031	13.37878407
ZPR1	14.66485335	14.38954565	15.16131698	12.7038556	13.13129346	11.17768786	12.1674358	12.69759252	12.53893591
ZRANB2	15.44595429	14.94005384	15.17369339	16.54800682	15.29093017	15.35506888	16.9329889	17.43552088	17.08078506
ZSCAN18	16.07404556	15.7815212	15.17495058	17.77558715	17.60997197	17.78054687	17.93744962	18.2190477	18.29063761
ZW10	14.83831524	15.31425129	15.82600373	15.82378804	15.22414465	16.20981435	12.47034052	12.34208232	11.80572281
ZYX	16.09752569	16.5373705	15.70201028	18.72153069	18.69017752	18.74879232	18.40572537	20.55502357	19.56698418

Supplementary Table 8. GSEA results for dural adenocarcinoma vs primary prostate comparison.

RANKED_LIST	GENESET	ES	NES	NP	FDR	FWER
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ALLOGRAFT_REJECTION	-0.4434	-1.4993	0	0.075	0.137
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_DN	0.3711	1.5314	0	0.075	0.036
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_SPERMATOGENESIS	0.4074	1.6068	0	0.082	0.02
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_INTERFERON_GAMMA_RESPONSE	-0.4188	-1.4233	0.0056	0.1093	0.344
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ANDROGEN_RESPONSE	-0.4113	-1.3271	0.0399	0.2281	0.729
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_XENOBIOTIC_METABOLISM	0.3196	1.3216	0.0097	0.2533	0.181
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_GLYCOLYSIS	0.3024	1.2458	0.0183	0.2942	0.32
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_HEME_METABOLISM	0.3095	1.255	0.0426	0.341	0.304
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSI	-0.3511	-1.2029	0.0756	0.6153	0.987
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_IL6_JAK_STAT3_SIGNALING	-0.3761	-1.1776	0.1726	0.6211	0.999
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_HEDGEHOG_SIGNALING	0.3677	1.1434	0.2	0.6283	0.63
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_CHOLESTEROL_HOMEOSTASIS	0.3077	1.1099	0.1947	0.7115	0.729
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_UP	0.2729	1.0911	0.2109	0.7373	0.797
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_PEROXISOME	0.2728	1.0397	0.2979	0.7546	0.915
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_NOTCH_SIGNALING	0.3388	1.0412	0.369	0.812	0.913
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_FATTY_ACID_METABOLISM	0.2567	1.0495	0.2458	0.8332	0.898
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_HYPOXIA	0.2586	1.0556	0.2549	0.8784	0.882
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_INTERFERON_ALPHA_RESPONSE	-0.3482	-1.1037	0.2612	0.9245	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_COAGULATION	0.2539	0.9992	0.4604	0.957	0.972
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_MITOTIC_SPINDLE	0.1429	0.5947	1	0.9998	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_UP	-0.3057	-1.0452	0.3396	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_INFLAMMATORY_RESPONSE	-0.2914	-0.9881	0.5145	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_IL2_STAT5_SIGNALING	-0.2606	-0.8946	0.7665	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_G2M_CHECKPOINT	-0.2574	-0.8816	0.796	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_COMPLEMENT	-0.2402	-0.8282	0.875	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_APICAL_JUNCTION	-0.2254	-0.7753	0.966	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_E2F_TARGETS	-0.22	-0.7584	0.9679	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_EARLY	-0.2194	-0.7516	0.9788	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V1	-0.1998	-0.6853	0.9989	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_TNFA_SIGNALING_VIA_NFKB	-0.1932	-0.6631	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_UNFOLDED_PROTEIN_RESPONSE	-0.2033	-0.6579	0.9976	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_DN	-0.1869	-0.6253	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_PROTEIN_SECRETION	-0.1923	-0.6168	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_PI3K_AKT_MTOR_SIGNALING	-0.1882	-0.6103	0.9988	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_APOPTOSIS	-0.1804	-0.6057	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_TGF_BETA_SIGNALING	-0.1568	-0.4636	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_MTORC1_SIGNALING	0.1593	0.6493	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_BILE_ACID_METABOLISM	0.1728	0.6679	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_LATE	0.1647	0.6805	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_PANCREAS_BETA_CELLS	0.2206	0.7068	0.9817	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_APICAL_SURFACE	0.2169	0.7231	0.9696	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ANGIOGENESIS	0.2375	0.7303	0.9603	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_P53_PATHWAY	0.1853	0.7601	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_DNA_REPAIR	0.1957	0.7796	1	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_WNT_BETA_CATENIN_SIGNALING	0.2433	0.7843	0.9375	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V2	0.244	0.8438	0.8852	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_MYOGENESIS	0.2064	0.8573	0.967	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_ADIPOGENESIS	0.2072	0.8588	0.951	1	1
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_OXIDATIVE_PHOSPHORYLATION	0.2143	0.8767	0.9619	1	0.999
DURA VS PROSTATE .rnk	gene_sets.gmt#HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHW	0.2874	0.9639	0.4908	1	0.991

Supplementary Table 9. GSEA results for brain NEPC vs dural adenocarcinoma comparison.

RANKED_LIST	GENESET	ES	NES	NP	FDR	FWER
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_E2F_TARGETS	0.5639	2.0215	0	0	0
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_G2M_CHECKPOINT	0.5058	1.7846	0	0.0001	0.001
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_NOTCH_SIGNALING	-0.5316	-1.9362	0	0.004	0.001
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V1	0.4426	1.5753	0	0.0052	0.055
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_XENOBIOTIC_METABOLISM	-0.3322	-1.6419	0	0.006	0.002
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_DN	-0.3929	-1.9951	0	0.008	0.001
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_MYOGENESIS	-0.317	-1.5941	0	0.0148	0.006
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_COAGULATION	-0.3325	-1.5091	0	0.0171	0.011
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_TNFA_SIGNALING_VIA_NFKB	-0.3142	-1.5183	0	0.0206	0.011
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_INFLAMMATORY_RESPONSE	-0.2681	-1.3413	0	0.1017	0.077
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_INTERFERON_ALPHA_RESPONSE	-0.3037	-1.3588	0	0.1058	0.065
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_HEME_METABOLISM	-0.2695	-1.3417	0	0.113	0.077
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_BILE_ACID_METABOLISM	-0.2974	-1.3657	0	0.1139	0.061
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_EARLY	-0.2594	-1.2982	0	0.1379	0.115
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ANGIOGENESIS	-0.3495	-1.2812	0.073	0.1384	0.123
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_APICAL_SURFACE	-0.3176	-1.2438	0.1071	0.1555	0.163
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_DN	-0.267	-1.2603	0.0417	0.159	0.146
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_APICAL_JUNCTION	-0.2622	-1.2454	0	0.1666	0.163
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_INTERFERON_GAMMA_RESPONSE	-0.2418	-1.1889	0.05	0.2002	0.244
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSI	-0.2406	-1.1999	0	0.2016	0.229
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_SPERMATOGENESIS	-0.2611	-1.2021	0.0625	0.2094	0.225
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_APOPTOSIS	-0.2441	-1.1164	0.0882	0.364	0.404
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_PEROXISOME	-0.2322	-1.0717	0.2931	0.4707	0.507
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_WNT_BETA_CATENIN_SIGNALING	-0.2817	-1.0595	0.3151	0.5	0.54
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_MTORC1_SIGNALING	0.3284	1.1593	0.1465	0.5649	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ADIPOGENESIS	-0.2156	-1.0357	0.4286	0.5773	0.604
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_TGF_BETA_SIGNALING	-0.2525	-1.0174	0.4126	0.6325	0.65
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_PANCREAS_BETA_CELLS	0.3753	1.109	0.3162	0.6712	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_HYPOXIA	-0.1984	-0.9865	0.6	0.746	0.738
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ANDROGEN_RESPONSE	-0.2236	-0.9892	0.5397	0.7563	0.727
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHW	-0.2335	-0.9349	0.6277	0.8317	0.818
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_UP	-0.1888	-0.9369	0.8333	0.8547	0.816
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_HEDGEHOG_SIGNALING	-0.2551	-0.9375	0.6047	0.8829	0.815
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_COMPLEMENT	-0.1947	-0.9454	0.7273	0.8855	0.808
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_MITOTIC_SPINDLE	0.2891	1.0248	0.4236	0.9414	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V2	0.3159	0.9921	0.4895	0.9469	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_FATTY_ACID_METABOLISM	-0.1853	-0.8798	0.963	0.9824	0.875
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_IL6_JAK_STAT3_SIGNALING	-0.1447	-0.6206	1	0.9984	0.93
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_PI3K_AKT_MTOR_SIGNALING	0.1455	0.4885	1	0.9999	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_P53_PATHWAY	-0.1737	-0.8551	1	1	0.887
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_IL2_STAT5_SIGNALING	-0.162	-0.8035	1	1	0.913
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_PROTEIN_SECRETION	-0.1771	-0.7897	0.9841	1	0.917
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_CHOLESTEROL_HOMEOSTASIS	-0.1762	-0.7344	1	1	0.926
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_LATE	-0.1463	-0.7321	1	1	0.926
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_ALLOGRAFT_REJECTION	-0.1276	-0.6308	1	1	0.93
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_GLYCOLYSIS	0.1535	0.5481	1	1	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_UP	0.1861	0.6526	0.9959	1	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_UNFOLDED_PROTEIN_RESPONSE	0.1942	0.6619	0.9864	1	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_DNA_REPAIR	0.2205	0.7706	0.9131	1	1
NEPC VS DURA.rnk	gene_sets.gmt#HALLMARK_OXIDATIVE_PHOSPHORYLATION	0.2582	0.9145	0.6866	1	1

Supplementary Table 10. GSEA results for brain NEPC vs primary prostate comparison.

RANKED_LIST	GENESET	ES	NES	NP	FDR	FWER
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_INTERFERON_GAMMA_RESPONSE	-0.4893	-2.1611	0	0	0
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ALLOGRAFT_REJECTION	-0.4407	-1.9684	0	0	0
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_G2M_CHECKPOINT	0.5534	2.1471	0	0	0
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_E2F_TARGETS	0.6194	2.3939	0	0	0
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ANDROGEN_RESPONSE	-0.4845	-1.9531	0	0.0009	0.001
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V1	0.4559	1.7548	0	0.0009	0.006
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSI	-0.4216	-1.8945	0	0.001	0.002
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_INTERFERON_ALPHA_RESPONSE	-0.4687	-1.8998	0	0.0013	0.002
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_INFLAMMATORY_RESPONSE	-0.3978	-1.7801	0	0.0035	0.006
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_APICAL_JUNCTION	-0.3505	-1.587	0	0.0163	0.035
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_TNFA_SIGNALING_VIA_NFKB	-0.3456	-1.5445	0	0.0186	0.046
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_MTORC1_SIGNALING	0.3911	1.5112	0	0.0198	0.173
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_IL6_JAK_STAT3_SIGNALING	-0.3742	-1.4974	0	0.0225	0.059
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_NOTCH_SIGNALING	-0.4537	-1.4808	0.0354	0.0244	0.073
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_DN	-0.3347	-1.4397	0	0.0295	0.096
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_EARLY	-0.318	-1.4048	0	0.0349	0.12
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_UP	-0.3129	-1.3881	0.006	0.0368	0.138
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_MYC_TARGETS_V2	0.4357	1.427	0.0202	0.0379	0.363
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_MYOGENESIS	-0.3109	-1.3786	0.0058	0.0382	0.152
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_PANCREAS_BETA_CELLS	0.453	1.4064	0.0534	0.0393	0.429
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_MITOTIC_SPINDLE	0.3511	1.3539	0.0143	0.0606	0.641
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_COMPLEMENT	-0.2821	-1.2439	0.0248	0.1259	0.455
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_APOPTOSIS	-0.2792	-1.2146	0.0529	0.147	0.559
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_IL2_STAT5_SIGNALING	-0.2748	-1.2148	0.0946	0.1559	0.558
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_OXIDATIVE_PHOSPHORYLATION	0.3207	1.2376	0.0595	0.1791	0.968
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_COAGULATION	-0.2749	-1.1609	0.115	0.2216	0.729
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_BILE_ACID_METABOLISM	-0.2784	-1.1442	0.1212	0.2289	0.771
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_TGF_BETA_SIGNALING	-0.3097	-1.1489	0.1837	0.2311	0.763
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_DNA_REPAIR	0.3035	1.139	0.1921	0.367	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_GLYCOLYSIS	0.2889	1.1203	0.1765	0.3772	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_UV_RESPONSE_UP	0.2831	1.0667	0.312	0.4959	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ANGIOGENESIS	-0.3066	-1.0436	0.3631	0.5097	0.978
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_SPERMATOGENESIS	0.2788	1.0363	0.3872	0.544	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_KRAS_SIGNALING_DN	-0.2195	-0.9751	0.5305	0.7883	0.997
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_APICAL_SURFACE	-0.2667	-0.9305	0.6146	0.9702	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_HEME_METABOLISM	-0.1229	-0.5407	1	0.9996	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_XENOBIOTIC_METABOLISM	-0.1944	-0.8546	0.9659	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_WNT_BETA_CATENIN_SIGNALING	-0.2253	-0.7843	0.8533	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_UNFOLDED_PROTEIN_RESPONSE	-0.1837	-0.7628	0.9692	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ADIPOGENESIS	-0.1612	-0.7152	1	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_HYPOXIA	-0.1538	-0.6932	1	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_P53_PATHWAY	-0.1477	-0.6576	1	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHW	-0.1719	-0.6143	0.9968	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_PROTEIN_SECRETION	-0.1503	-0.6012	1	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_PEROXISOME	-0.1385	-0.565	1	1	0.999
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_PI3K_AKT_MTOR_SIGNALING	0.1085	0.3928	1	1	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_FATTY_ACID_METABOLISM	0.1436	0.5412	1	1	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_CHOLESTEROL_HOMEOSTASIS	0.173	0.5927	0.9973	1	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_ESTROGEN_RESPONSE_LATE	0.1731	0.6688	1	1	1
NEPC VS prostate.rnk	gene_sets.gmt#HALLMARK_HEDGEHOG_SIGNALING	0.2606	0.7788	0.8326	1	1